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	STP/CMQ/TAP-0034(035)X	1	221
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

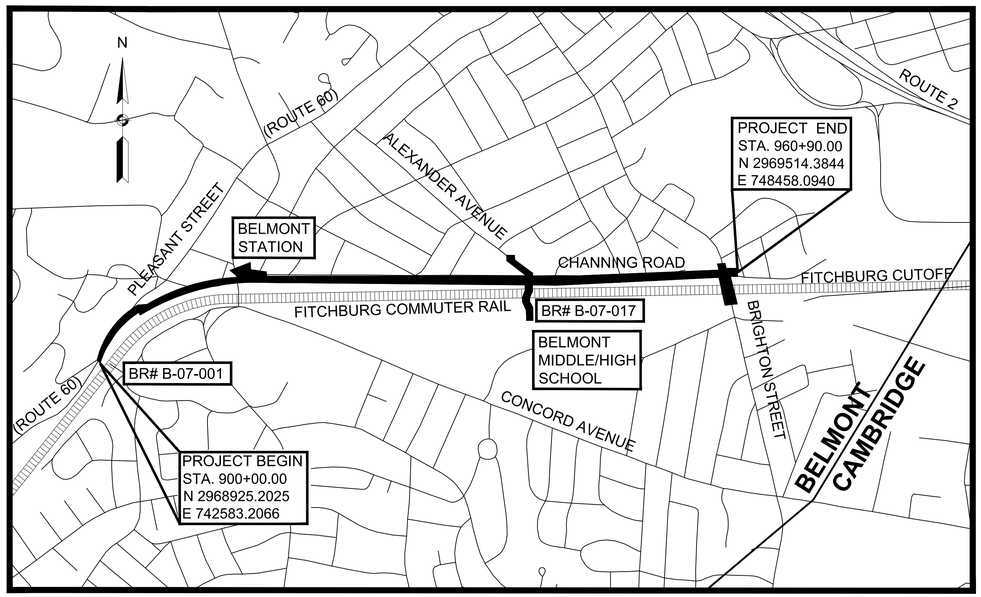
MIDDLESEX COUNTY

FEDERAL AID PROJECT NO. STP/CMQ/TAP-0034(035)X

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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0 700 1400 2100 2800

SCALE: 1" = 700'

LENGTH OF PROJECT = 6090.00 FEET = 1.153 MILES

SHARED USE PATH DESIGN DESIGNATION

DESIGN SPEED	20 MPH
MINIMUM HORIZONTAL CURVE RADIUS	74'
MINIMUM RATE OF VERTICAL CURVATURE (K) ON CREST CURVES	16.0
MAXIMUM GRADE FOR LEVEL TERRRAIN	4.5% ±0.5% (7.5% MAX AT ADA/AAB ACCESSIBLE RAMPS)

COMMONWEALTH OF MASSACHUSETTS
MATTHEW M. STYCKIEWICZ
CIVIL
No. 52277
REGISTERED PROFESSIONAL ENGINEER

Matthew Styckiewicz — Digitally signed by Matthew Styckiewicz Date: 2026.09.09 15:25:10 -04'00'

COMMONWEALTH OF MASSACHUSETTS
MATTHEW J. SOLTYS
CIVIL
No. 53326
REGISTERED PROFESSIONAL ENGINEER

Matthew J. Soltys — Digitally signed by Matthew J. Soltys Date: 2026.09.09 11:00:32 -04'00'

DATE	DESCRIPTION	REV #

MassDOT
Massachusetts Department of Transportation
Highway Division

Nitsch Engineering

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- Transportation Engineering
- Structural Engineering
- Green Infrastructure
- Planning
- GIS

APPROVED

Carrie Lavallee — Digitally signed by Carrie Lavallee, P.E. Date: 2026.09.11 09:21:32 -04'00'

09/11/2026

CHIEF ENGINEER — **DATE**

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
x	x	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
		TIMBER RAIL
		PRIVACY SCREEN
		TEMPORARY CONSTRUCTION FENCE

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	STP/CMQ/TAP-0034(035)X	2	221
PROJECT FILE NO.	609204		

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	STP/CMQ/TAP-0034(035)X	3	221
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, AND MWRA 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.

19. ADDITIONAL TREE PROTECTION FENCE ALONG PRIVATE PROPERTIES MAY BE REQUIRED UPON ABUTTER REQUEST. PRIVATELY OWNED TREES SHOULD NOT BE TRIMMED/BUT WITHOUT APPROVAL FROM THE ENGINEER AND NOTIFICATION TO THE ABUTTER.

20. THE STEEL FENCE LOCATED BETWEEN THE COMMUNITY PATH AND THE RAILROAD MUST BE APPROVED BY THE MBTA PRIOR TO INSTALLATION.

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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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
ROYAL ROAD
COMMON STREET
GODEN STREET
HITTINGER STREET
CLARK STREET

W1-1 W1-2 W1-3 W1-4 W1-6
W3-1 W3-2 W3-3 W3-4 W3-5
W4-1
W5-2 W5-6
SB-1 SB-3 SB-4 SB-5 SB-6 SB-8 SB-9 SB-10

PROJECT BEGIN
STA 900+00
N2968925.2025
E742583.2066

PROJECT END
STA 960+90
N2969514.3960
E748458.3716

933+26.58 BELMONT COMMUNITY PATH=
502+09.19 ALEXANDER AVE SPUR

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

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

959+53.83 BELMONT COMMUNITY PATH=
201+73.42 BRIGHTON ST

51+39.48

MBTA FITCHBURG LINE
BELMONT STATION
PROPOSED UNDERPASS
FITCHBURG CUTOFF
CLARK STREET PEDESTRIAN BRIDGE
BR# B-07-001

BELMONT MIDDLE AND HIGH SCHOOL

CLAY PIT POND

0 200 400 600 800
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, APRIL 2024, AND MARCH 2026.
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
COMMUNITY PATH - PHASE 1
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PROJECT FILE NO.	609204		

BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
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: N2969008.7 - 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: NAD88
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'
40		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'
								Bottom of Boring 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

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
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: N2969078.9 - E742715.4
Ground Surface Elev. (ft.): 49.9
Final Boring Depth (ft.): 20.7
Date Start - Finish: 8/27/2021 - 8/27/2021
H. Datum: NAD88
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								Bottom of Boring 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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BORING).dwg 9/2/2026 11:27 AM
174493.00 HIGHWAY, BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/NJE; 8/8/2026
609204_HD(BORING).DWG Plotted on Sep-26 11:27 AM

SEE SHEET 5 FOR BORING NOTES.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	6	221
PROJECT FILE NO.	609204		

BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
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 - E742794.1
Ground Surface Elev. (ft.): 48.9
Final Boring Depth (ft.): 25
Date Start - Finish: 8/30/2021 - 9/3/2021
H. Datum: NAD88
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'
								Bottom of Boring 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.Waterlevelreadingshavebeenmadeatthetimesandunderthecondi tionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-3

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
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: N2969234.4 - E742861.4
Ground Surface Elev. (ft.): 46.6
Final Boring Depth (ft.): 21
Date Start - Finish: 9/2/2021 - 9/2/2021
H. Datum: NAD88
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'
								Bottom of Boring 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.Waterlevelreadingshavebeenmadeatthetimesandunderthecondi tionsstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W1-4

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BORING).dwg 9/2/2026 11:27 AM
174493.00 HIGHWAY : BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/N/E; 8/8/2026
609204_HD(BORING).DWG Plotted on Sep-26 11:27 AM

SEE SHEET 5 FOR BORING NOTES.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	7	221
PROJECT FILE NO.	609204		

BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
Belmont, Massachusetts

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

Drilling Co.: New England Boring Contractors
Type of Rig: Truck
Foreman: Willy
Rig Model: Vacuum
Logged By: A. Lupo
Drilling Method: N/A
Boring Location: N2969198 - E742729.4
Ground Surface Elev. (ft.): 70.1
Final Boring Depth (ft.): 6
Date Start - Finish: 9/14/2021 - 9/14/2021
H. Datum: NAD88
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)	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	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'
								Bottom of Boring 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

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
Belmont, Massachusetts

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

Drilling Co.: New England Boring Contractors
Type of Rig: ATV
Foreman: Jim Mientkiewicz
Rig Model: Soil Scout
Logged By: A. Lupo
Drilling Method: Drive & Wash
Boring Location: N2969521.8 - E745569.8
Ground Surface Elev. (ft.): 29.5
Final Boring Depth (ft.): 36
Date Start - Finish: 8/23/2021 - 8/24/2021
H. Datum: NAD88
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)	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.)
									1				
		S-1	1-3	Grab				S-1: Dark brown, fine to coarse SAND and GRAVEL, trace Silt, trace (-) Organics.	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'
								Bottom of Boring 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 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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BORING).dwg 9/2/2026 11:27 AM
609204_HD(BORING).DWG Plotted on Sep-26 11:27 AM
174493.00 HIGHWAY - BELMONT COMMUNITY PATH.GPJ STRATUM ONLY W/O SMPL W/NE: 8/8/2026

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	8	221
PROJECT FILE NO.	609204		

BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
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: N2969519.2 - E745839.1
Ground Surface Elev. (ft.): 28.1
Final Boring Depth (ft.): 36
Date Start - Finish: 8/23/2021 - 8/23/2021
H. Datum: NAD88
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			FILL	
5		S-2	4-6	Grab				S-2: Brown/dark brown, fine to medium SAND, little Gravel, little Silt, trace Organics, dry.			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'
40								Bottom of Boring 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 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.Waterlevelreadingshavebeenmadeatthetimesandunderthecondition sstated.Fluctuationsof groundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: W3-3

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
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: N2969592.5 - E745636.2
Ground Surface Elev. (ft.): 22.1
Final Boring Depth (ft.): 31
Date Start - Finish: 8/31/2021 - 9/1/2021
H. Datum: NAD88
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			FILL	
5		S-2	4-6	Grab				S-2: Brown,dark brown, fine to coarse SAND and GRAVEL, some Silt, trace (-) Organics.	4		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'
40								Bottom of Boring at 31 feet.	5				

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

Boring No.: W3-4

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BORING).dwg 9/2/2026 11:27 AM
174493.00 HIGHWAY - BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/NIE; 8/8/2026
609204_HD(BORING).DWG Plotted on Sep-26 11:27 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	9	221
PROJECT FILE NO.	609204		

BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
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: N2969526 - E745474
Ground Surface Elev. (ft.): 30.5
Final Boring Depth (ft.): 31
Date Start - Finish: 8/24/2021 - 8/24/2021
H. Datum: NAD88
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)	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	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								Bottom of Boring 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.

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.: W3-5

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
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: N2969527.2 - E743972.1
Ground Surface Elev. (ft.): 41.4
Final Boring Depth (ft.): 36
Date Start - Finish: 8/25/2021 - 8/25/2021
H. Datum: NAD88
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)	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	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								Bottom of Boring 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.

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.: W4-1

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BORING).dwg 9/2/2026 11:27 AM
174493.00 HIGHWAY - BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/NE; 8/8/2026
609204_HD(BORING).DWG Plotted on Sep-26 11:27 AM

SEE SHEET 5 FOR BORING NOTES.

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
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: N2969505.4 - E747762.7
Ground Surface Elev. (ft.): 12.9
Final Boring Depth (ft.): 21
Date Start - Finish: 9/9/2021 - 9/9/2021
H. Datum: NAD88
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'
								Bottom of Boring at 21 feet.	3				

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.

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.: W5-2

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
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: N2969503.4 - E748162.3
Ground Surface Elev. (ft.): 14.0
Final Boring Depth (ft.): 26
Date Start - Finish: 9/8/2021 - 9/8/2021
H. Datum: NAD88
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'
								Bottom of Boring at 26 feet.	4				

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.

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.: W5-6

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BORING).dwg 9/2/2026 11:27 AM
609204_HD(BORING).DWG Plotted on Sep-26 11:27 AM
174493.00 HIGHWAY - BELMONT COMMUNITY PATH.GPJ STRATUM ONLY W/O SMPL W/NE 8/8/2026

SEE SHEET 5 FOR BORING NOTES.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	11	221
PROJECT FILE NO.	609204		

BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
Belmont, Massachusetts

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

Drilling Co.: New England Boring Contractors
Foreman: Pat Schofield
Logged By: Mackenzie Meschwitz
Type of Rig: Truck
Rig Model: Mobile B-53
Drilling Method: Drive & Wash
Boring Location: N2969524 - E748356.3
Ground Surface Elev. (ft.): 12.7
Final Boring Depth (ft.): 36
Date Start - Finish: 3/17/2026 - 3/17/2026
H. Datum: NAD88
V. Datum: NAVD88

Auger/Casing Type: HW
I.D/O.D.(in): 4/4.5
Hammer Weight (lb.): 140
Hammer Fall (in.): 30
Other: Auto Hammer
Sampler Type: Split Spoon
I.D./O.D. (in.): 1-3/8"/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.)
									1		1'	TOPSOIL	11.7'
		GS-1	1-7					GS-1: Dark to light brown, fine to coarse SAND and GRAVEL, some Silt.	2 3			FILL	
5		S-1	5-7	24	9	4 3 4 6	7	S-1: Medium stiff, brown, Silty CLAY, little fine to coarse Sand, trace Gravel.	4		5.5'		7.2'
		S-2	7-9	24	20	10 7 9 9	16	PP=4.3 tsf S-2: Very stiff, brown, Silty CLAY.					
10		S-3	9-11	24	24	3 5 6 8	11	PP=2.0 tsf S-3: Stiff, brown, Silty CLAY.					
		S-4	11-13	24	24	8 9 8 8	17	PP=1.2 tsf S-4: Very stiff, light brown, Silty CLAY.					
		S-5	13-15	24	24	WOH 4 3 5	7	PP=1.0 tsf S-5: Medium stiff, brown, Silty CLAY.					
15		S-6	15-17	24	18	6 5 4 4	9	PP=1.25 tsf S-6: Stiff, light brown, Silty CLAY.					
								PP=1.0 tsf	5				
20		S-7	19-21	24	24	WOR WOR 3 2	3	S-7: Soft, gray to blue, Silty CLAY. PP=0.25 tsf				SILTY CLAY	
25		S-8	24-26	24	24	WOH WOH WOH 3	0	S-8: Very soft, gray to blue, Silty CLAY. PP=0.5 tsf					
30		S-9	29-31	24	24	WOH WOH WOH WOH	0	S-9: Very soft, gray to blue, Silty CLAY. PP=0.25 tsf					
35		S-10	34-36	24	24	WOR WOR 7 7	7	S-10A: (Top 12") Gray to blue, Silty CLAY. S-10B: (Bottom 12") Brown to gray, Silty CLAY, some fine to medium SAND.	6		36'		-23.3'
								Bottom of Boring at 36 feet.					
40													

REMARKS

1. Boring coordinates based on handheld GPS data taken by GZA. Ground surface elevation for the as-drilled boring location provided by Nitsch Engineering, via email on March 26, 2026.
2. Boring pre-excavated using vacuum truck to depth of 5.5 feet below ground surface (bgs) on 3/17/2026 using a VacMasters System 5000 vacuum excavation truck. Borehole was then temporarily backfilled with cuttings.
3. Borehole advanced using drive and wash techniques and HW casing to 17 feet bgs.
4. The split spoon sample from 5 to 7 feet bgs, sample S-1, was taken partially through the previously pre-excavated zone, which extended to 5.5 feet bgs. The SPT N-Value for this sample may not be indicative of the in-situ soil.
5. Borehole advanced boring from 17' to 36' bgs using open hole techniques.
6. Boring terminated at 36 feet bgs. Upon completion, the borehole was backfilled with soil cutting to the ground surface and the area raked.

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.: SB-1

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
Belmont, Massachusetts

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

Drilling Co.: New England Boring Contractors
Foreman: Pat Schofield
Logged By: Mackenzie Meschwitz
Type of Rig: Truck
Rig Model: Mobile B-53
Drilling Method: Drive & Wash
Boring Location: N2969524 - E745934.1
Ground Surface Elev. (ft.): 27.7
Final Boring Depth (ft.): 36
Date Start - Finish: 3/3/2026 - 3/11/2026
H. Datum: NAD88
V. Datum: NAVD88

Auger/Casing Type: HW
I.D/O.D.(in): 4/4.5
Hammer Weight (lb.): 140
Hammer Fall (in.): 30
Other: Auto Hammer
Sampler Type: Split Spoon
I.D./O.D. (in.): 1-3/8"/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
3/11/2026	1345	8.0	16	2 hrs

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.)
									1				
		GS-1	1-1.5					GS-1: Dark brown to black, fine to medium SAND, some fine to coarse Gravel, some Silt, trace Roots.	2 3			FILL	
5													
		S-1	8-10	24	5	3 WOH WOH 2	0	S-1: Loose, black to dark brown, fine to coarse SAND, some Gravel, little Silt.					
10		S-2	10-12	24	11	WOH 2 5 9	7	S-2A: (Top 5") Brown, fine to coarse SAND, some Gravel, little Silt.			10.5'		17.2'
		S-3	12-14	24	21	6 10 16 21	26	S-2B: (Bottom 6") Brown to gray, Clayey SILT, little fine Sand. PP=1.0 tsf.					
15		S-4	14-16	24	14	4 8 8 11	16	S-3: Very stiff, brown, Silty CLAY, trace fine Gravel. PP=4.0 tsf.					
								S-4: Very stiff, brown, Silty CLAY. PP=3.0 tsf.	4				
20		S-5	19-21	24	19	9 9 5 4	14	S-5: Medium stiff, gray, Silty CLAY, little fine Sand. PP=1.25 tsf.				SILTY CLAY	
25		S-6	24-26	24	24	WOH WOH WOH WOH	0	S-6: Very soft, gray to blue, Silty CLAY. PP=1.0 tsf.					
30		S-7	29-31	24	24	WOH WOH WOH WOH	0	S-7: Very soft, gray to blue, Silty CLAY. PP=1.25 tsf.					
35		S-8	34-36	24	24	WOH WOH WOH WOH	0	S-8: Very soft, gray to blue, Silty CLAY.			36'		-8.3'
								Bottom of Boring at 36 feet.	5				
40													

REMARKS

1. Boring coordinates based on handheld GPS data taken by GZA. Ground surface elevation for the as-drilled boring location provided by Nitsch Engineering, via email on March 26, 2026.
2. Boring pre-excavated using vacuum truck to depth of 8.5 feet below ground surface (bgs) on 3/3/2026 using a VacMasters System 5000 vacuum excavation truck. Borehole was then temporarily backfilled with cuttings.
3. Boring advanced using drive and wash techniques and HW casing to 16 feet bgs.
4. Borehole advanced boring from 16 to 36 feet bgs using open hole techniques.
5. Boring terminated at 36 feet bgs. Upon completion, the borehole was backfilled with soil cuttings to ground surface and the area raked

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.: SB-3

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BORING).dwg 9/2/2026 11:28 AM
609204_HD(BORING).DWG Plotted on Sep-26 11:28 AM
174493.00 HIGHWAY - BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/N/E: 8/8/2026

SEE SHEET 5 FOR BORING NOTES.

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
Belmont, Massachusetts

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

Drilling Co.: New England Boring Contractors
Foreman: Pat Schofield
Logged By: Mackenzie Meschwitz
Type of Rig: Truck
Rig Model: Mobile B-53
Drilling Method: Drive & Wash
Boring Location: N2969523 - E745998.2
Ground Surface Elev. (ft.): 27.7
Final Boring Depth (ft.): 36
Date Start - Finish: 3/3/2026 - 3/10/2026
H. Datum: NAD88
V. Datum: NAVD88

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

Sampler Type: Split Spoon
I.D./O.D. (in.): 1-3/8"/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
3/10/2026	1230	7.7	4	1 hr

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.)
		GS-1	0.5-1.5					GS-1: Dark brown to black, fine to medium SAND, some fine to coarse Gravel, little Silt.	1 2 3			FILL	
10		S-1	9-11	24	4	2 2 3 5	5	S-1: Loose, black to dark brown, fine to coarse SAND, some Gravel, little Silt, trace Organics.					
		S-2	11-13	24	4	8 7 7 10	14	S-2: Medium dense, dark brown to black, fine to coarse SAND, some Gravel, little Silt.			14'		13.7'
15		S-3	14-16	24	23	4 8 10 13	18	S-3: Very stiff, brown, Silty CLAY. PP= 3.5 tsf.					
		S-4	16-18	24	24	10 12 9 7	21	S-4: Very stiff, brown, Silty CLAY. PP= 2.75 tsf.	4				
20		S-5	19-21	24	20	3 5 6 16	11	S-5: Stiff brown to gray, Silty CLAY. PP= 2.5 tsf.					
25		S-6	24-26	24	3	WOH 3 WOH WOH	3	S-6: Soft, gray to blue, Silty CLAY. PP= 0.5 tsf.				SILTY CLAY	
30		S-7	29-31	24	24	WOH WOH WOH WOH	0	S-7: Very soft, gray to blue, Silty CLAY. PP= 0.5 tsf.					
35		S-8	34-36	24	24	WOH WOH WOH WOH	0	S-8: Very soft, gray,Silty CLAY. PP= 0.25 tsf.			36'		-8.3'
40								Bottom of Boring at 36 feet.	5				

REMARKS

1. Boring coordinates based on handheld GPS data taken by GZA. Ground surface elevation for the as-drilled boring location provided by Nitsch Engineering, via email on March 26, 2026.
2. Boring pre-excavated using vacuum truck to depth of 8.5 feet below ground surface (bgs) on 3/3/2026 using a VacMasters System 5000 vacuum excavation truck. Borehole was then temporarily backfilled with cuttings.
3. Borehole advanced using drive and wash techniques and HW casing to 16 feet bgs.
4. Borehole advanced boring from 16 to 36 feet bgs using open hole techniques.
5. Boring terminated at 36 feet bgs. Upon completion, the borehole was backfilled with soil cuttings to ground surface and the area raked

See Log Key for explanation of sampled descriptions 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.: SB-4

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
Belmont, Massachusetts

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

Drilling Co.: New England Boring Contractors
Foreman: Jack Lefebure
Logged By: Mackenzie Meschwitz
Type of Rig: Truck
Rig Model: Mobile B-53
Drilling Method: Drive & Wash
Boring Location: N2969522 - E746065.4
Ground Surface Elev. (ft.): 27.0
Final Boring Depth (ft.): 36
Date Start - Finish: 3/2/2026 - 3/9/2026
H. Datum: NAD88
V. Datum: NAVD88

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

Sampler Type: Split Spoon
I.D./O.D. (in.): 1-3/8"/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
3/9/2026	1246	8.0	17	15 min

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.)
		GS-1	0-9					GS-1: Black, fine to medium SAND, some fine to coarse Gravel, little Silt.	1 2			FILL	
10		S-1	9-11	24	8	3 2 4 7	6	S-1: Loose brown to gray, fine to coarse SAND, and GRAVEL, little Silt.	3				
		S-2	11-13	24	20	7 11 15 19	26	S-2A: (Top 6") Brown, fine to coarse SAND and GRAVEL, trace Silt.			11.5'		15.5'
15		S-3	13-15	24	13	7 10 13 13	23	S-2B: (Bottom 14") Brown, Silty CLAY, some fine to medium Sand.					
		S-4	15-17	24	20	16 16 15 11	31	PP= 0.75 tsf. S-3: Very stiff, brown, Silty CLAY, little fine to medium Sand. PP= 0.75 tsf. S-4: Hard, brown, Silty CLAY.					
20		S-5	19-21	24	24	8 5 4 5	9	PP= 2.75 tsf. S-5A: (Top 10") Brown, Silty CLAY, little fine to medium SAND. S-5B: (Bottom 14") Brown, Silty CLAY. PP=0.75 tsf.					
25		S-6	24-26	24	24	WOR WOR WOR WOR	0	S-6: Very soft, gray, Silty CLAY. PP= 0.5 tsf.				SILTY CLAY	
30		S-7	29-31	24	24	WOR WOR WOR WOR	0	S-7: Very soft, gray, Silty CLAY. PP= 0.25 tsf.					
35		S-8	34-36	24	17	WOR WOR WOR WOR	0	S-8: Very soft, gray, Silty CLAY. PP= 0.0 tsf.			36'		-9.0'
40								Bottom of Boring at 36 feet.	4				

REMARKS

1. Boring coordinates based on handheld GPS data taken by GZA. Ground surface elevation for the as-drilled boring location provided by Nitsch Engineering, via email on March 26, 2026.
2. Boring pre-excavated using vacuum truck to depth of 8.5 feet below ground surface (bgs) on 3/2/2026 using a VacMasters System 5000 vacuum excavation truck. Borehole was then temporarily backfilled with cuttings.
3. Borehole advanced using drive and wash techniques and HW casing to 13 feet bgs.
4. Boring terminated at 36 feet bgs. Upon completion, the borehole was backfilled with soil cuttings to ground surface and the area raked

See Log Key for explanation of sampled descriptions 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.: SB-5

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BORING).dwg 9/2/2026 11:28 AM
174493.00 HIGHWAY - BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/NIE; 8/8/2026
609204_HD(BORING).DWG Plotted on Sep-26 11:28 AM

SEE SHEET 5 FOR BORING NOTES.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	13	221
PROJECT FILE NO.	609204		

BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
Belmont, Massachusetts

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

Drilling Co.: New England Boring Contractors
Foreman: Pat Schofield
Logged By: Mackenzie Meschwitz
Type of Rig: Truck
Rig Model: Mobile B-53
Drilling Method: Drive & Wash
Boring Location: N2969322 - E745700
Ground Surface Elev. (ft.): 16.3
Final Boring Depth (ft.): 36
Date Start - Finish: 3/17/2026 - 3/18/2026
H. Datum: NAD88
V. Datum: NAVD88

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

Sampler Type: Split Spoon
I.D./O.D. (in.): 1-3/8"/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
3/18/2026	1200	5.4	16	30 min

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.)
									1		1'	TOPSOIL	15.3'
									2				
									3			FILL	
		GS-1	3-3.5					GS-1: Dark brown, fine to coarse GRAVEL, some fine to coarse Sand, little Silt.			4'		12.3'
5		S-1	5-7	24	20	3 6 8 11	14	S-1: Stiff, brown, Silty CLAY.					
		S-2	7-9	24	24	8 9 10 8	19	S-2: Very stiff, brown to gray, Silty CLAY.					
10		S-3	9-11	24	24	5 3 3 4	6	S-3: Medium stiff, gray, Silty CLAY. PP= 1.0 tsf.					
15		S-4	14-16	24	24	4 2 WOH WOH	2	S-4: Very soft, gray to blue, Silty CLAY.	4				
20		S-5	19-21	24	24	WOH WOH WOH WOH	0	S-5: Very soft, gray to blue, Silty CLAY. PP= 0.25 tsf.				CLAYEY SILT	
25		S-6	24-26	24	3	WOH WOH WOH WOH	0	S-6: Very soft, gray to blue, Silty CLAY.					
30		S-7	29-31	24	24	WOR WOR WOR WOR	0	S-7: Very soft, gray to blue, Silty CLAY.					
35		S-8	34-36	24	0	WOH WOH WOH WOH	0	S-8: No Recovery.			36'		-19.7'
40								Bottom of Boring at 36 feet.	5				

REMARKS

1. Boring coordinates based on handheld GPS data taken by GZA. Ground surface elevation for the as-drilled boring location provided by Nitsch Engineering, via email on March 26, 2026.
2. Boring pre-excavated using vacuum truck to depth of 4 feet below ground surface (bgs) on 3/17/2026 using a VacMasters System 5000 vacuum excavation truck. Borehole was then temporarily backfilled with cuttings.
3. Borehole advanced using drive and wash techniques and HW casing to 16 feet bgs.
4. Borehole advanced boring from 16 to 36 feet bgs using open hole techniques.
5. Boring terminated at 36 feet bgs. Upon completion, the borehole was backfilled with soil cuttings to ground surface and the area raked

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

Boring No.: SB-6

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
Belmont, Massachusetts

BORING NO.: SB-8
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Pat Schofield
Logged By: Mackenzie Meschwitz
Type of Rig: Truck
Rig Model: Mobile B-53
Drilling Method: Drive & Wash
Boring Location: N2969524 - E745376.5
Ground Surface Elev. (ft.): 31.2
Final Boring Depth (ft.): 36
Date Start - Finish: 3/2/2026 - 3/5/2026
H. Datum: NAD88
V. Datum: NAVD88

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

Sampler Type: Split Spoon
I.D./O.D. (in.): 1-3/8"/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
3/5/3036	1345	8.75	16	1 hr

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.)
									1				
									2				
		GS-1	2-3					GS-1: Dark brown, fine to coarse SAND, some fine to coarse Gravel, little Silt.	3				
5												FILL	
		S-1	6-8	24	7	5 6 6 6	12	S-1: Medium dense, brown, fine to coarse SAND and GRAVEL, trace Silt.					
		S-2	8-10	24	3	5 3 3 4	6	S-2: Loose, brown, fine to coarse SAND, some Gravel, little Silt.					
10		S-3	10-12	24	8	WOH 3 WOH	3	S-3: Soft, brown to black, Silty CLAY, little fine to medium Sand, trace Roots.			10'		21.2'
		S-4	12-14	24	9	WOH 3 WOH	3	S-4: Soft, brown, Silty CLAY, some fine to medium Sand. PP=1.5 tsf.					
15		S-5	14-16	24	20	3 4 5 8 15 21	23	S-5: Very stiff, brown to gray, Silty CLAY, some fine to medium Sand. PP= 2.75 tsf.	4				
20		S-6	19-21	24	24	4 6 8 10	14	S-6: Stiff,brown to gray, Silty CLAY, little fine to medium Sand. PP= 3.5 tsf.				SILTY CLAY	
25		S-7	24-26	24	24	WOH 6 5 6	11	S-7: Stiff, brown to gray, Silty CLAY, little fine to medium Sand.			27.5'		3.7'
30		S-8	29-31	24	18	10 15 18 17	33	S-8: Dense, light brown, fine to coarse SAND, some Silt.				SILTY SAND	
											33'		-1.8'
35		S-9	34-36	24	24	WOH WOH	0	S-9: Very soft, gray to blue, Silty CLAY. PP= 0.5 tsf.				SILTY CLAY	
						WOH WOH					36'		-4.8'
40								Bottom of Boring at 36 feet.	5				

REMARKS

1. Boring coordinates based on handheld GPS data taken by GZA. Ground surface elevation for the as-drilled boring location provided by Nitsch Engineering, via email on March 26, 2026.
2. Boring pre-excavated using vacuum truck to depth of 6 feet below ground surface (bgs) on 3/2/2026 using a VacMasters System 5000 vacuum excavation truck. Borehole was then temporarily backfilled with cuttings.
3. Borehole advanced using drive and wash techniques and HW casing to 14 feet bgs.
4. Borehole advanced boring from 14 to 36 feet bgs using open hole techniques.
5. Boring terminated at 36 feet bgs. Upon completion, the borehole was backfilled with soil cuttings to ground surface and the area raked

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

Boring No.: SB-8

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(BORING).dwg 9/2/2026 11:28 AM
STRATUM ONLY W/O SMPL W/NE: 8/8/2026
174493.00 HIGHWAY - BELMONT COMMUNITY PATH.GPJ:
609204_HD(BORING).DWG Plotted on Sep-26 11:28 AM

SEE SHEET 5 FOR BORING NOTES.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	14	221
PROJECT FILE NO.	609204		

BORING LOGS

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
Belmont, Massachusetts

BORING NO.: SB-9
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Pat Schofield
Logged By: Mackenzie Meschwitz
Type of Rig: Truck
Rig Model: Mobile B-53
Drilling Method: Drive & Wash
Boring Location: N2969528 - E745275
Ground Surface Elev. (ft.): 31.6
Final Boring Depth (ft.): 36
Date Start - Finish: 3/3/2026 - 3/4/2026
H. Datum: NAD88
V. Datum: NAVD88

Auger/Casing Type: HW
I.D/O.D.(in): 4/4.5
Hammer Weight (lb.): 140
Hammer Fall (in.): 30
Other: Auto Hammer
Sampler Type: Split Spoon
I.D./O.D. (in.): 1-3/8"/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
3/4/2026	1237	9.6	14	25 min

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.)
		GS-1	1.5-2.5					GS-1: Dark brown to black, fine to medium SAND, little fine to coarse Gravel, little Silt, trace Roots.	1 2 3			FILL	
5		S-1	6-8	24	6	6 5 WOH 3	5	S-1: Loose, brown to gray, fine to coarse SAND, some Gravel, little Silt.					
		S-2	8-10	24	4	3 2 2 3	4	S-2: Very loose, brown to black, fine to medium SAND, some Gravel, little Silt.					
10		S-3	10-12	24	10	8 7 4 3	11	S-3A: (Top 4") Brown, fine to medium SAND, little Gravel, little Silt.			10.3'		21.3'
		S-4	12-14	24	0	WOH WOH	4	S-3B: (Bottom 6") Dark brown, fine to medium SAND, some Gravel, little Silt.				SAND	
15		S-5	14-16	24	17	4 8 3 8 15 21	23	S-4: No recovery. S-5: Very stiff, brown, Silty CLAY.	4		14'		17.6'
												SILT CLAY	
20		S-6	19-21	24	23	4 6 9 9	15	S-6: Stiff, brown, Silty CLAY, little fine to medium Sand. PP= 3.0 tsf.					
											22.5'		9.1'
25		S-7	24-26	24	19	5 6 11 11	17	S-7: Medium dense, brown, fine to medium SAND, little Silt.				SILTY SAND	
30		S-8	29-31	24	20	7 10 6 7	16	S-8A: (Top 8") Brown, fine to medium SAND, little Silt. S-8B: (Bottom 12") Brown to gray, Silty CLAY.			30'		1.6'
												SILTY CLAY	
35		S-9	34-36	24	24	WOH WOH WOH	0	S-9: Very soft, brown to gray, Silty CLAY. PP= 0.25 tsf.			36'		-4.4'
40						WOH		Bottom of Boring at 36 feet.	5				

REMARKS

1. Boring coordinates based on handheld GPS data taken by GZA. Ground surface elevation for the as-drilled boring location provided by Nitsch Engineering, via email on March 26, 2026.
2. Boring pre-excavated using vacuum truck to depth of 6 feet below ground surface (bgs) on 3/2/2026 using a VacMasters System 5000 vacuum excavation truck. Borehole was then temporarily backfilled with cuttings.
3. Borehole advanced using drive and wash techniques and HW casing to 14 feet bgs.
4. Borehole advanced boring from 14 to 36 feet bgs using open hole techniques.
5. Boring terminated at 36 feet bgs. Upon completion, the borehole was backfilled with soil cuttings to ground surface and the area raked

SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoilandbedrocktypes.Actualtransitionsmaybegradual.Waterlevelreadingshavebeenmadeatthetimesandunderthconditionsstated.Fluctuationsofgroundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: SB-9

TEST BORING LOG

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Belmont Community Path - Phase 1
Component of Mass Central Rail Trail
MassDOT Proj. No. 609204
Belmont, Massachusetts

BORING NO.: SB-10
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors
Foreman: Pat Schofield
Logged By: Mackenzie Meschwitz
Type of Rig: Truck
Rig Model: Mobile B-53
Drilling Method: Drive & Wash
Boring Location: N2969525 - E745177.5
Ground Surface Elev. (ft.): 32.8
Final Boring Depth (ft.): 36
Date Start - Finish: 3/2/2026 - 3/6/2026
H. Datum: NAD88
V. Datum: NAVD88

Auger/Casing Type: HW
I.D/O.D.(in): 4/4.5
Hammer Weight (lb.): 140
Hammer Fall (in.): 30
Other: Auto Hammer
Sampler Type: Split Spoon
I.D./O.D. (in.): 1-3/8"/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
3/6/2026	1330	11.6	16	1 hr

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.)
		GS-1	0-4					GS-1: Tan to dark brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt.	1 2 3			FILL	
5		GS-2	4-6					GS-2: Dark brown to black, fine to medium SAND, little fine to coarse Gravel, little Silt, trace Roots.					
		S-1	6-8	24	6	4 3 2 WOH	5	S-1: Loose, dark brown, fine to coarse SAND, some Gravel, trace Silt.			8'		24.8'
		S-2	8-10	24	3	3 3 WOH	3	S-2: Very loose, brown to black, fine to medium Sand and SILT, little Organics, trace Gravel.				SAND	
10		S-3	10-12	24	6	WOH 3 5	12	S-3: Medium dense, brown to black, fine to medium SAND and GRAVEL, some SIlt.			11'		21.8'
		S-4	12-14	24	10	7 8 8 8	13	S-4A: (Top 5") Brown, fine to coarse SAND, some Gravel, some Silt.					
15		S-5	14-16	24	14	5 7 8 15 21 17	36	S-4B: (Bottom 5") Brown, Silty CLAY, some fine to medium Sand. PP=1.75 tsf. S-5: Hard, dark brown, Silty CLAY.	4			SILTY CLAY	
20		S-6	19-21	24	24	WOH 4 10 10	14	S-6A: (Top 18") Brown, Silty CLAY, trace fine to medium Sand. S-6B: (Bottom 6") Brown, fine to coarse SAND, some Silt.			20.5'		12.3'
												SILTY SAND	
25		S-7	24-26	24	20	6 12 11 14	23	S-7: Medium dense, brown, fine to medium SAND, some SIlt.					
30		S-8	29-31	24	21	6 12 6 7	18	S-8A: (Top 12") Brown, fine to medium SAND, some SIlt. S-8B: (Bottom 12") Brown to gray, Silty CLAY. PP= 1.0 tsf.			30'		2.8'
												SILTY CLAY	
35		S-9	34-36	24	24	WOH WOH WOH	0	S-9: Very soft, gray to blue, Silty CLAY. PP= 1.25 tsf.			36'		-3.2'
40						WOH		Bottom of Boring at 36 feet.	5				

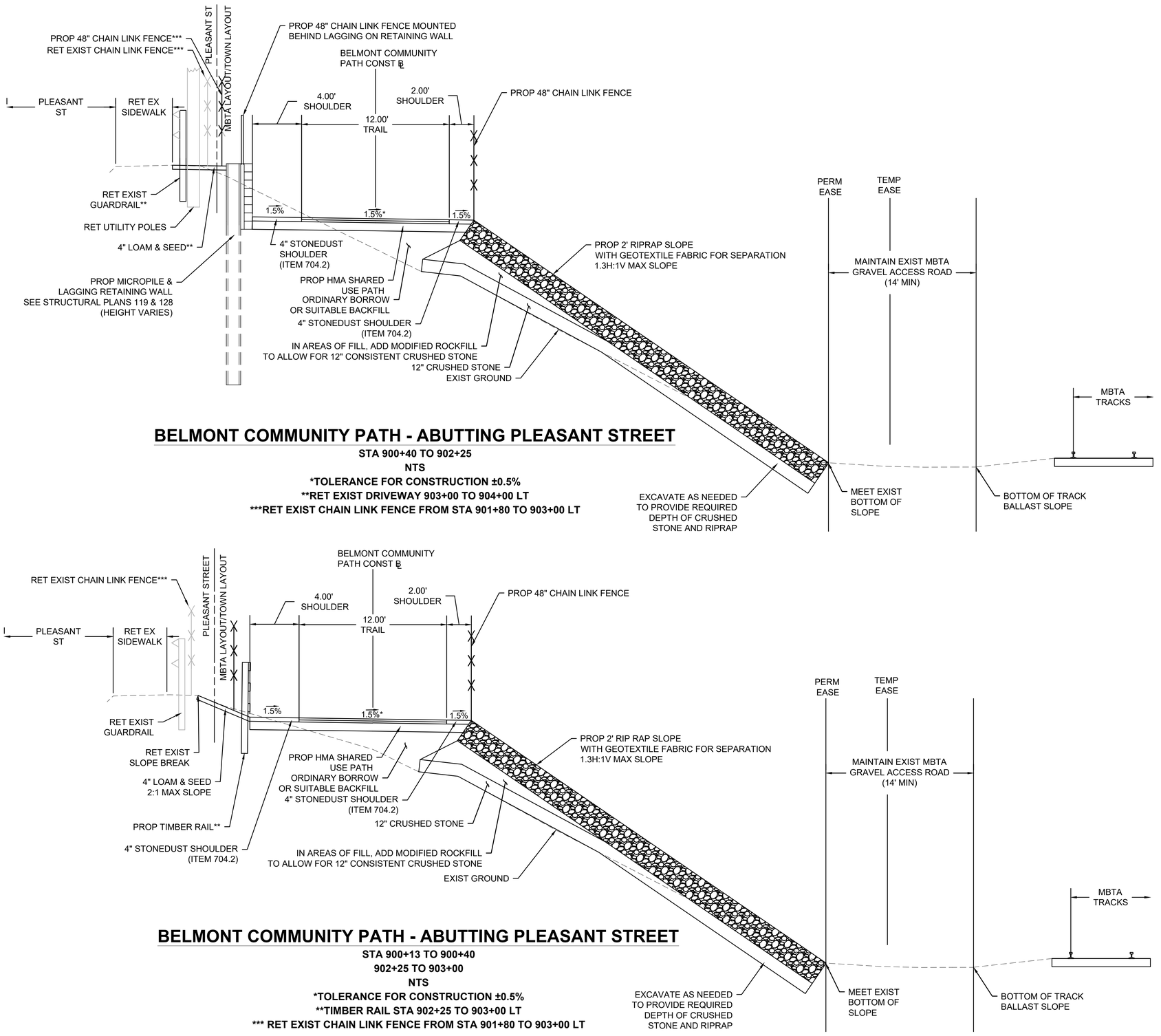
REMARKS

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SeeLogKeyforexplanationofsampledescriptionandidentificationprocedures.Stratificationlinesrepresentapproximateboundariesbetweensoilandbedrocktypes.Actualtransitionsmaybegradual.WaterlevelreadingshavebeenmadeatthetimesandunderthconditionsstatedFluctuationsofgroundwater may occur due to other factors than those present at the times the measurements were made.

Boring No.: SB-10

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609204_HD(BORING).DWG Plotted on Sep-26 11:28 AM
174493.00 HIGHWAY - BELMONT COMMUNITY PATH.GPJ; STRATUM ONLY W/O SMPL W/N/E; 8/8/2026



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 LT**

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 LT**
***** RET EXIST CHAIN LINK FENCE FROM STA 901+80 TO 903+00 LT**

PAVEMENT NOTES:

PROPOSED HMA SHARED USE PATH

SURFACE: 1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER
INTERMEDIATE: 3" 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.

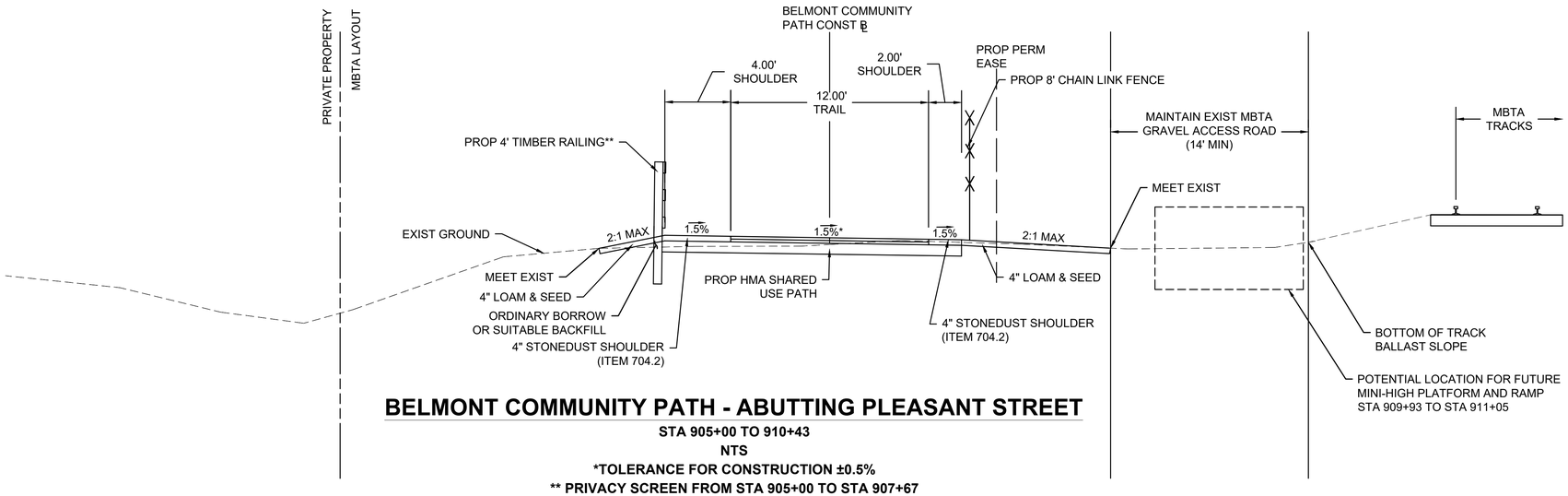
NOTES:
1. EMBANKMENT AND BACKFILL SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
2. ALL HOT MIX ASPHALT SHALL BE IN ACCORDANCE WITH SECTION 450 HOT MIX ASPHALT PAVEMENT AND SECTION M3 ASPHALTIC MATERIALS LATEST EDITION.
3. ALL HMA FOR HMA SIDEWALKS AND DRIVEWAYS WILL BE MEASURED AND PAID FOR UNDER ITEM 702.

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TYPSECT).dwg 9/2/2026 11:33 AM
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

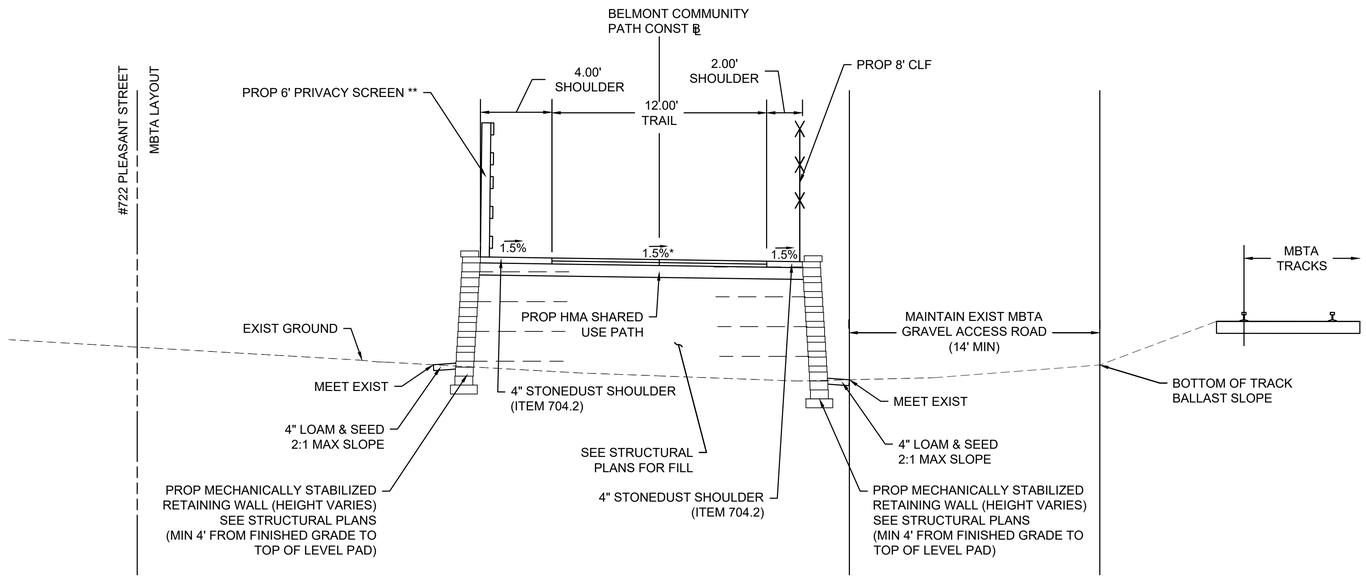
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MA	STP/CMQ/TAP-0034(035)X	16	221
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET

STA 905+00 TO 910+43
NTS
***TOLERANCE FOR CONSTRUCTION ±0.5%**
****** PRIVACY SCREEN FROM STA 905+00 TO STA 907+67**
RAILING ENDS AT STA 910+25 LT



BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET

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

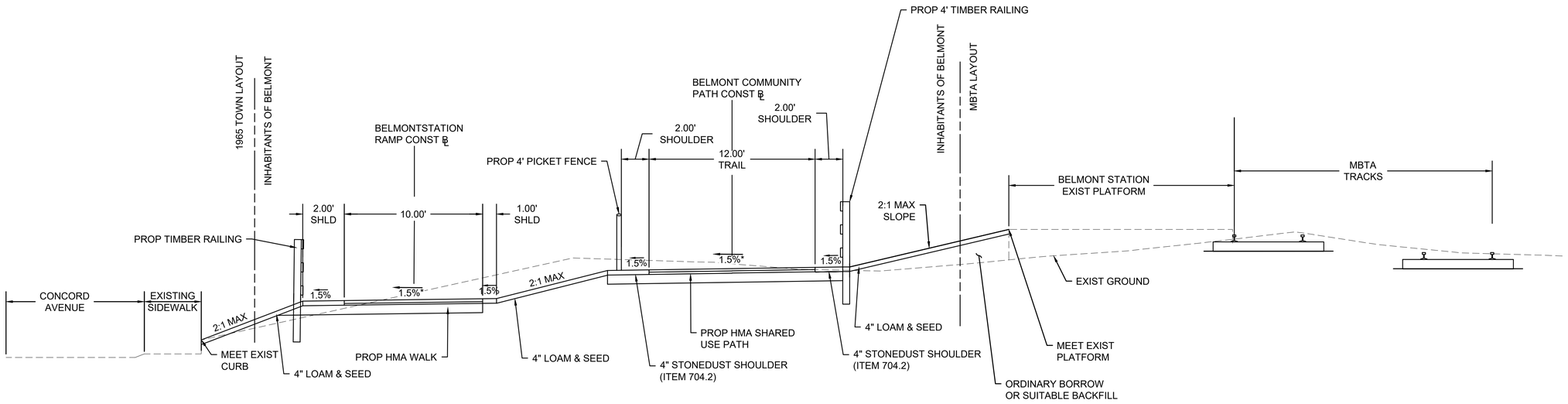
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

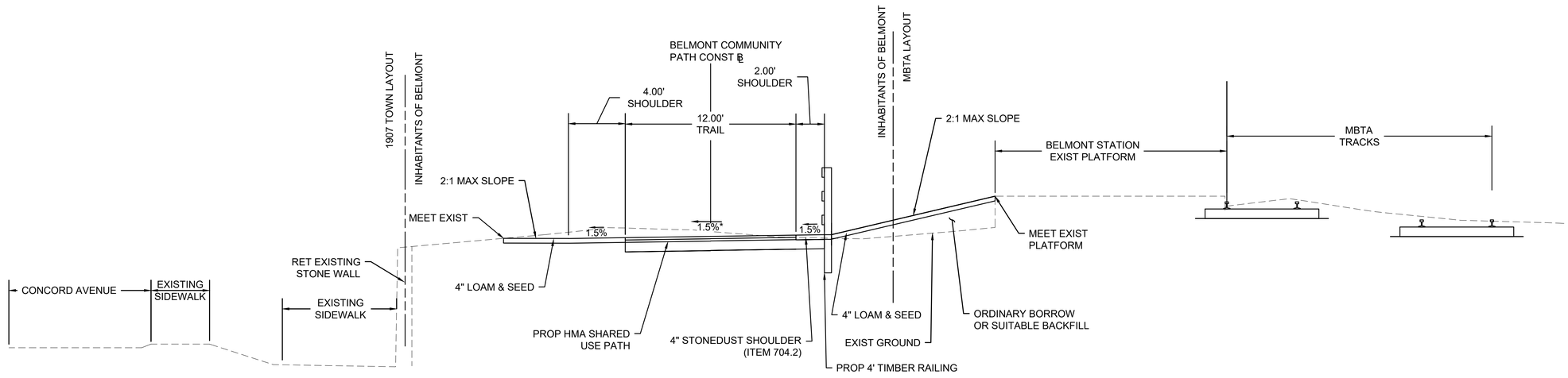
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MA	STP/CMQ/TAP-0034(035)X	17	221
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



BELMONT COMMUNITY PATH - BELMONT STATION

STA 912+70 TO 914+15
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



BELMONT COMMUNITY PATH - BELMONT STATION

STA 910+43 TO 912+55
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**

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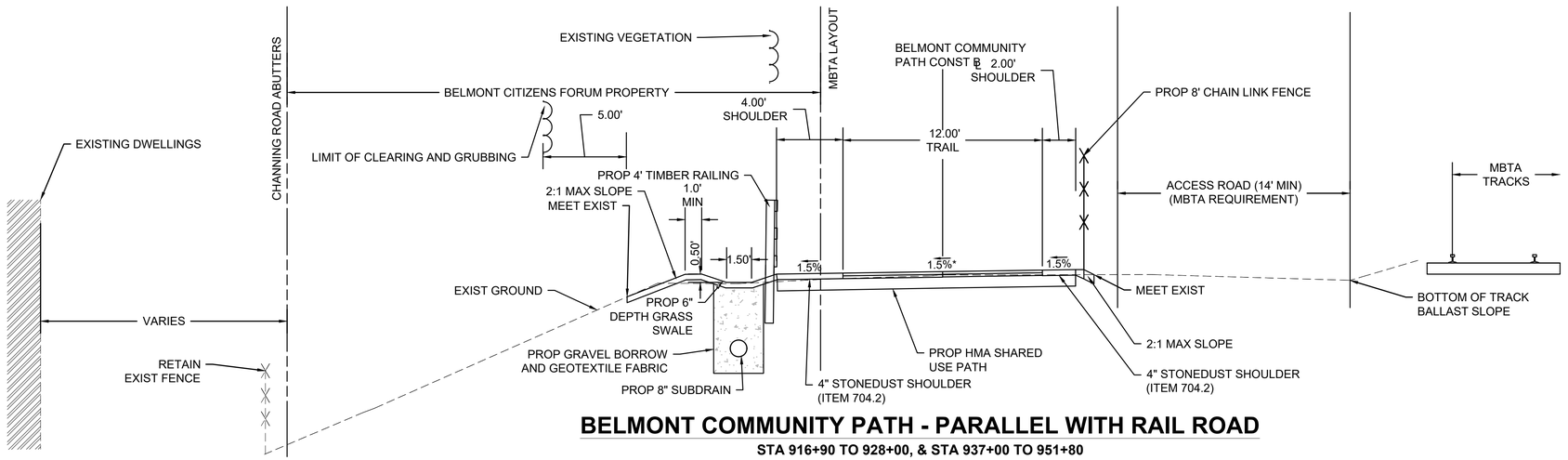
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609204_HD(TYPSECT).DWG Plotted on Sep-26 11:33 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

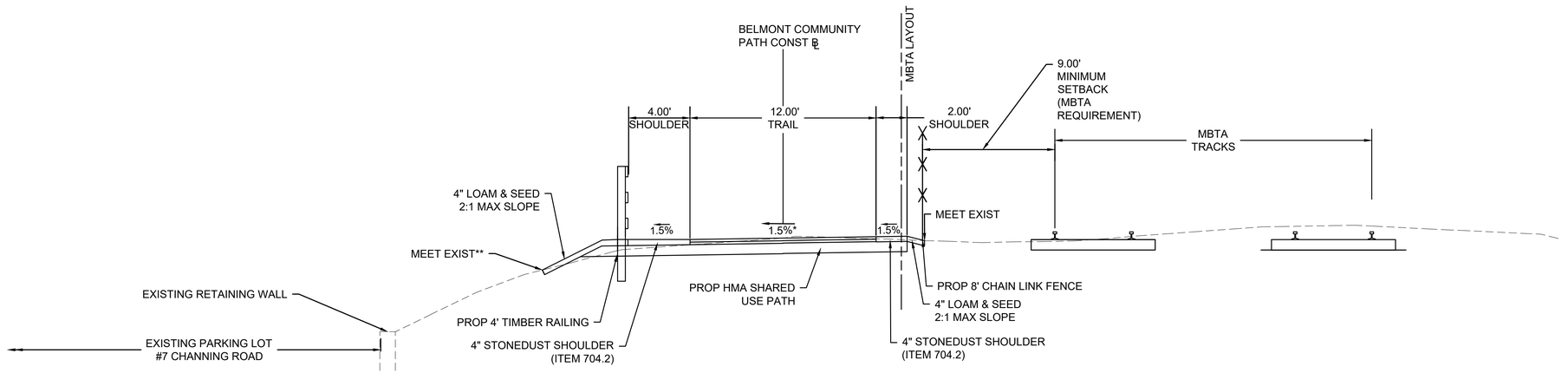
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MA	STP/CMQ/TAP-0034(035)X	18	221
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



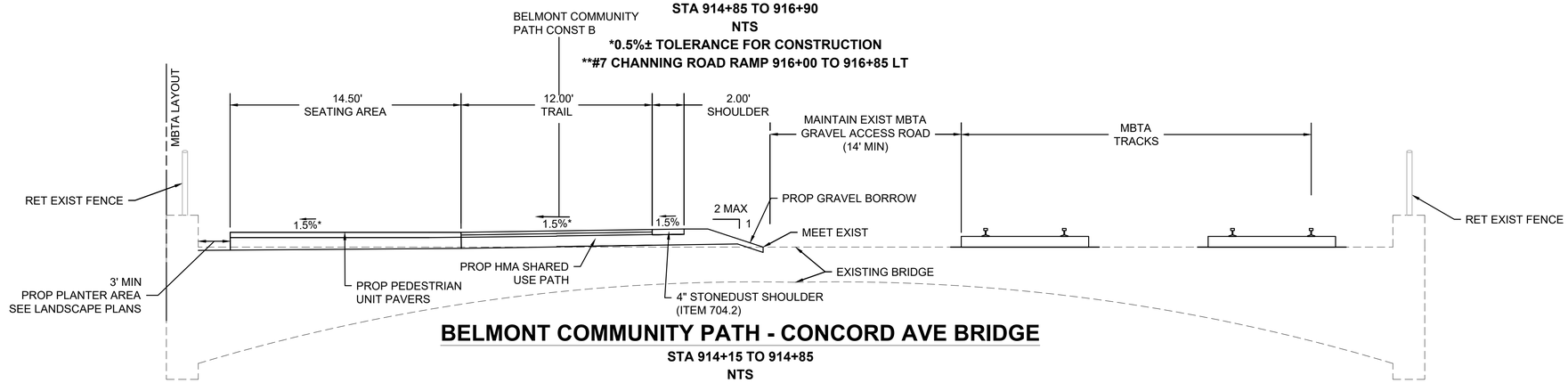
BELMONT COMMUNITY PATH - PARALLEL WITH RAIL ROAD

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**



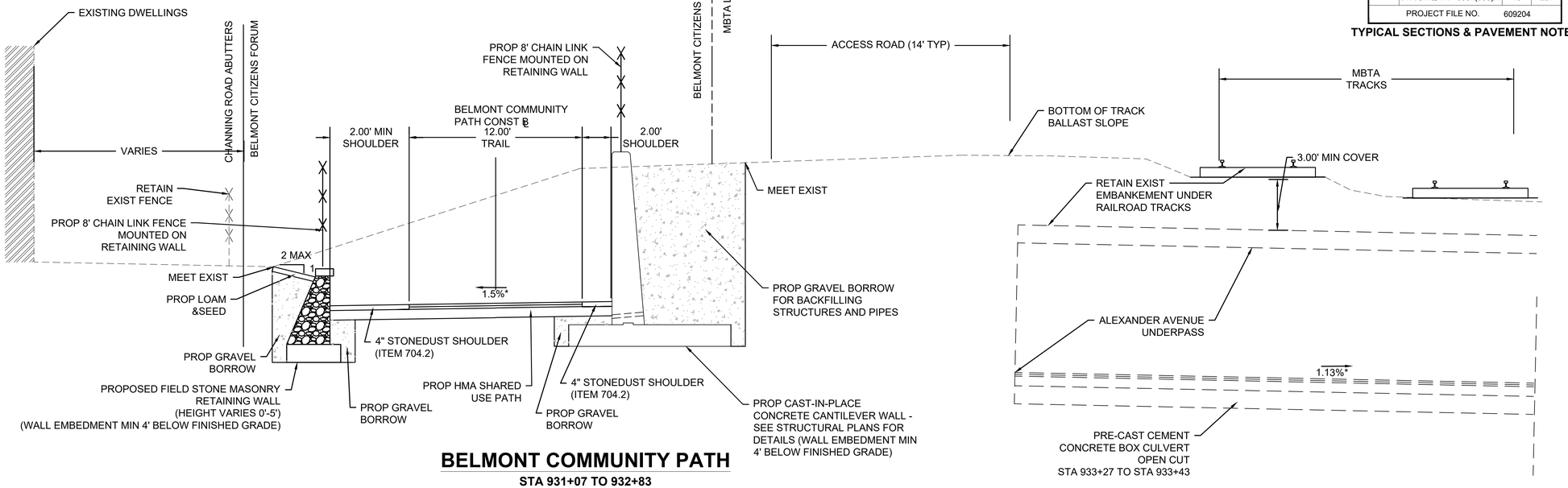
BELMONT COMMUNITY PATH - CONCORD AVE BRIDGE

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

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

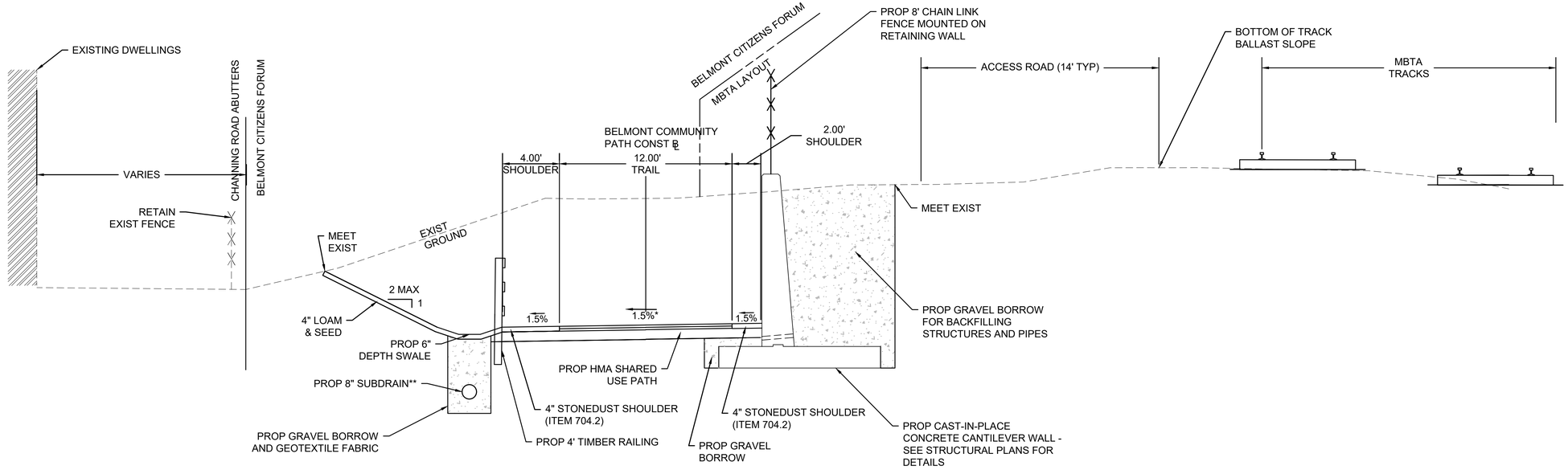
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MA	STP/CMQ/TAP-0034(035)X	19	221
PROJECT FILE NO.	609204		

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**



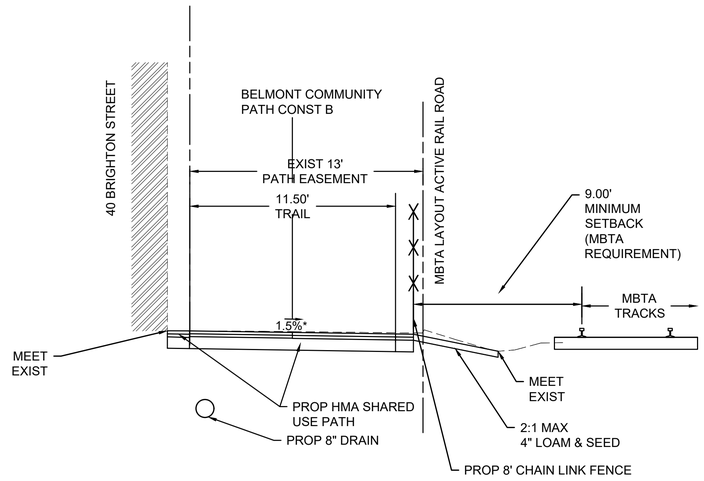
BELMONT COMMUNITY PATH

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

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609204_HD(TYPSECT).DWG Plotted on Sep-26 11:34 AM

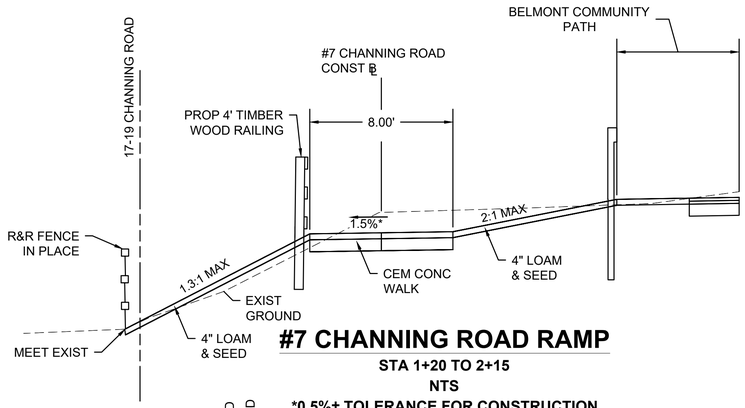
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PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



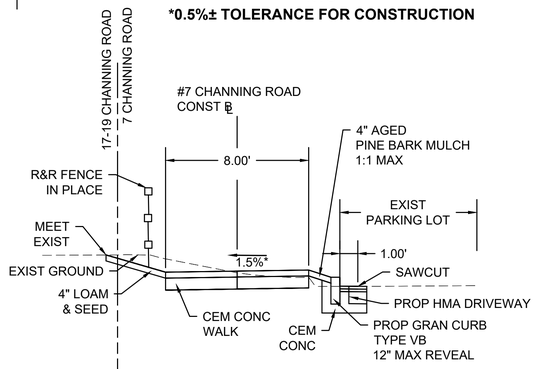
BELMONT COMMUNITY PATH - 40 BRIGHTON STREET ABUTTING BUILDING

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



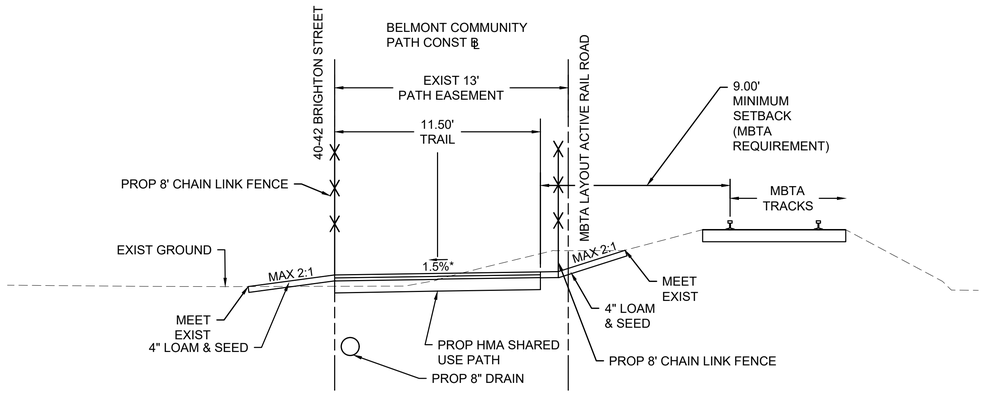
#7 CHANNING ROAD RAMP

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



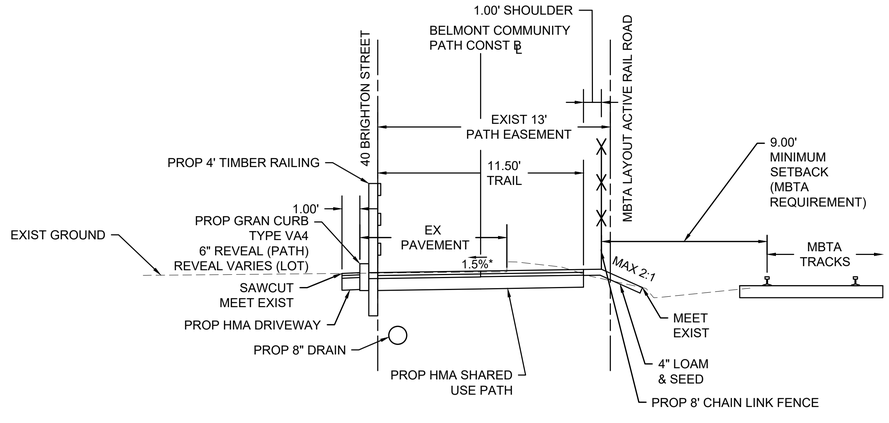
#7 CHANNING ROAD RAMP

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

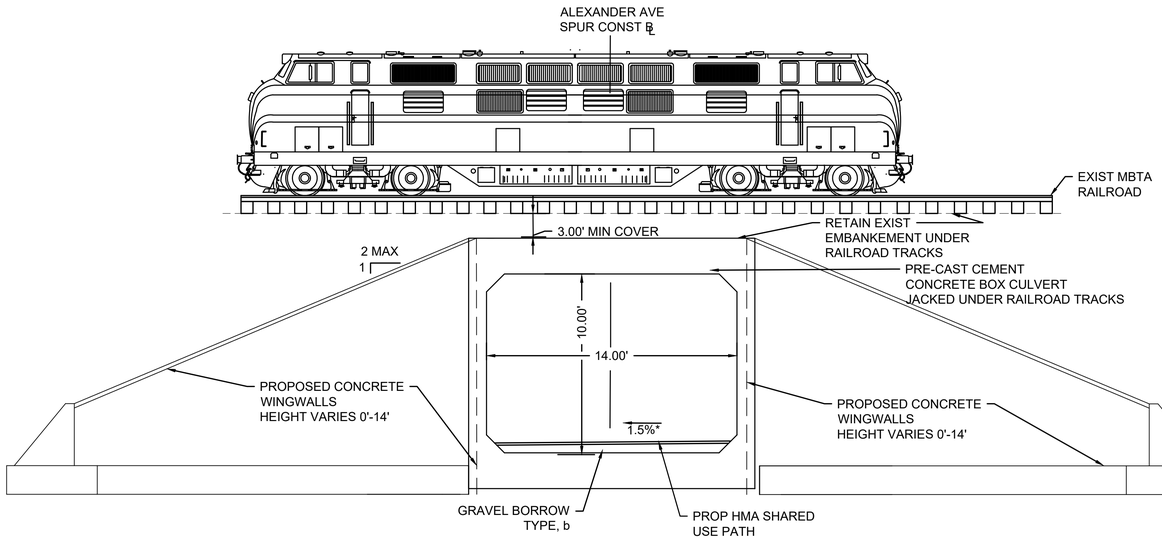
STA 956+56.17 TO 959+33
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TYPSECT).dwg 9/2/2026 11:34 AM
609204_HD(TYPSECT).DWG Plotted on Sep-26 11:34 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

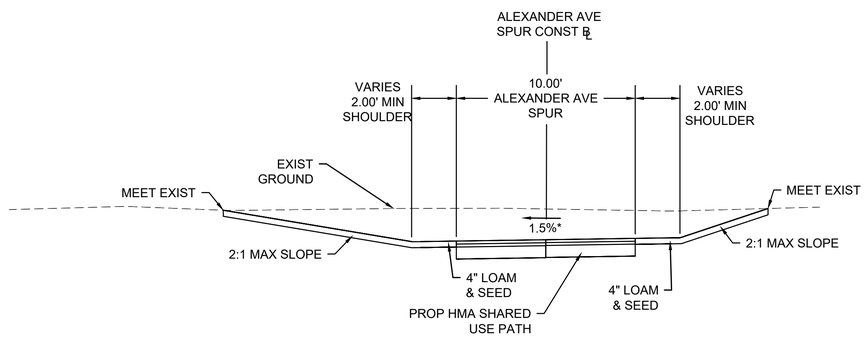
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MA	STP/CMQ/TAP-0034(035)X	21	221
PROJECT FILE NO.	609204		

TYPICAL SECTIONS & PAVEMENT NOTES



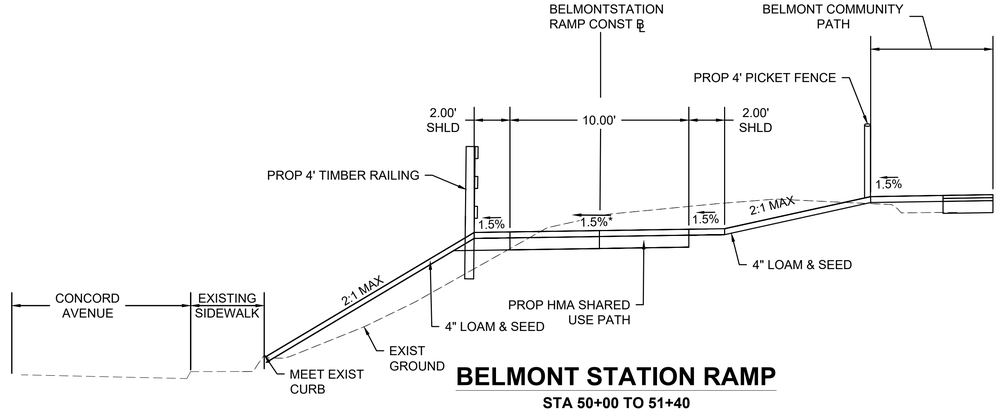
ALEXANDER AVENUE SPUR - UNDERPASS SECTION

502+15 TO 502+85
***0.5%± TOLERANCE FOR CONSTRUCTION**



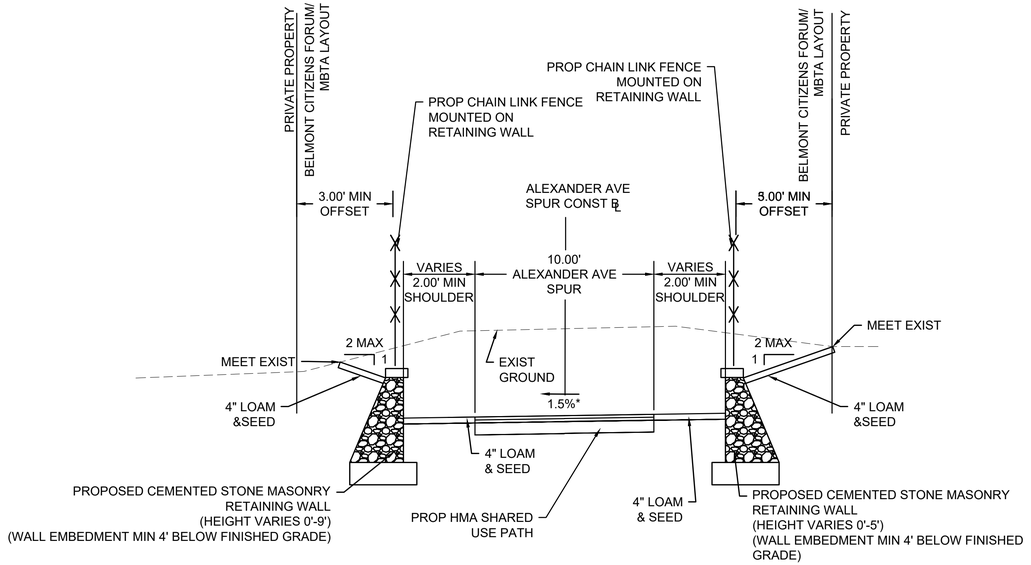
ALEXANDER AVENUE SPUR

500+20 TO 501+25
504+40 TO 505+25
***0.5%± TOLERANCE FOR CONSTRUCTION**



BELMONT STATION RAMP

STA 50+00 TO 51+40
NTS
***0.5%± TOLERANCE FOR CONSTRUCTION**



ALEXANDER AVENUE SPUR

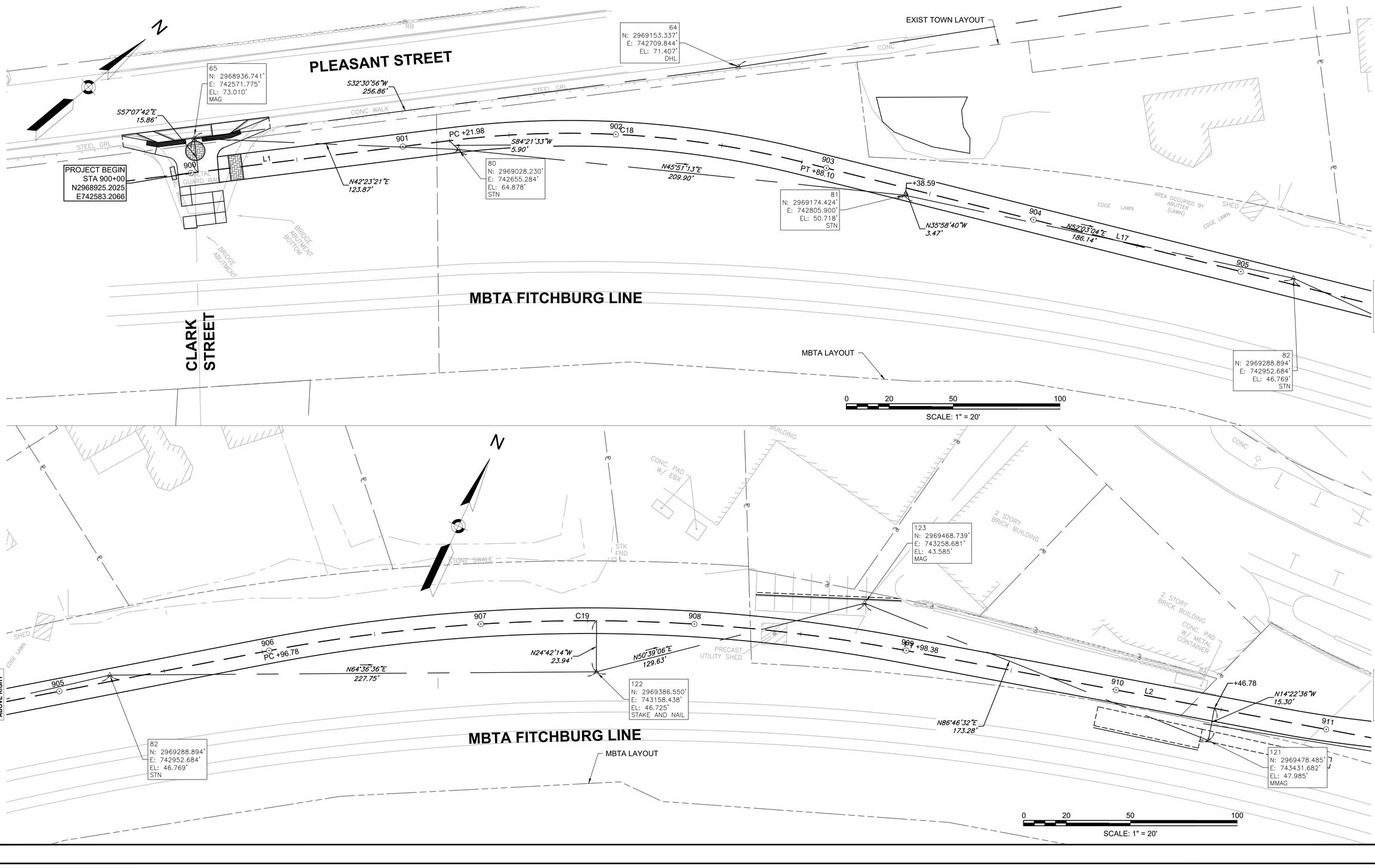
501+25 TO 501+70
503+15 TO 504+40
***0.5%± TOLERANCE FOR CONSTRUCTION**

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TYPSECT).dwg 9/2/2026 11:34 AM
609204_HD(TYPSECT).DWG Plotted on Sep-26 11:34 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	22	221
PROJECT FILE NO.	609204		

BASELINE TIES PLAN



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 Sep-26 9:02 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	23	221
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

N

TOWN LAYOUT

CONC. PAD W/ EBX

M/L

MW

CONC

DBYL

CONCORD AVENUE

278.72'
S55°45'11"W

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

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

51.97'
S68°19'47"W

CONTINUED ON SHEET NO. 22

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

50+00

L25

PC +45.40

C36

PT +56.44

L24

PC +92.37

51 C37

S5°32'40"E
15.36'

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

PT +18.19

L26

913

BELMONT COMMUNITY PATH CONST

PC +70.30

+81.16

914

PRC +49.82

PT +82.17

915

PC +07.65

51+39.48

S10°16'42"E
26.92'

+76.93

912

PT +04.87

L3

C1

PC +32.23

911

N14°22'36"W
15.30'

+46.78

S74°40'20"E
60.39'

S66°18'45"E
22.01'

MBTA FITCHBURG LINE

BELMONT STATION

340+61

340

SOLAR PANELS

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

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'

BENCHMARK: FND COR OF GRN BLOCK
EL=28.90'

CONC RAMP

S46°18'23"E
270.16'

CHANNING ROAD

PI +53.93

L29

3 STORY BRICK/WOOD BUILDING

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

CONC WALL

L30

CONTINUED BELOW LEFT

1STORY BRICK BUILDING

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

S24°41'56"E
174.00

BUILDING OVERHANG

PC +13.77

C25

PT +29.18

L27

CONC. PAD

RRS

PRC +41.29

PT +66.58

1STORY WD BUILDING

N68°22'57"W
11.48'

S31°13'39"E
26.21'

C4

L6

916

C5

L7

PC +12.59

PT +32.50

STAKE AND NAIL

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

MBTA RR ℄

PC +14.05

337

C38

338

CONCORD AVENUE

0 20 50 100
SCALE: 1" = 20'

N

PI +53.93

3 STORY BRICK/WOOD BUILDING

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

CONC WALL

L30

PC +13.77

BUILDING OVERHANG

C25

PT +29.18

L27

CONTINUED ABOVE RIGHT

N68°22'57"W
11.48'

S31°13'39"E
26.21'

916

C5

L7

PC +12.59

PT +32.50

L6

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

MBTA RR ℄

PC +14.05

337

WD SHED

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

PC +97.06

PT +12.82

C26

L28

C6

917

PT +08.25

PC +68.45

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

BELMONT CITIZENS FORUM

N88°43'19"E
121.77'

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

BLDG

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

WD SHED

S89°59'20"E
107.18'

S36°02'01"E
21.52'

+50.00

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'

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

CONTINUED ON SHEET NO. 24

MBTA FITCHBURG LINE

336 335 334 333 332

0 20 50 100
SCALE: 1" = 20'

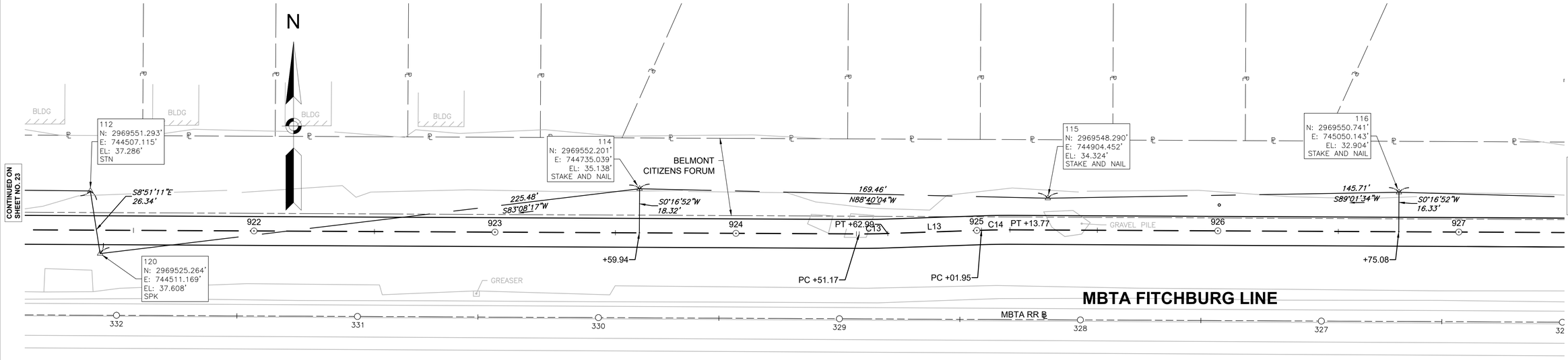
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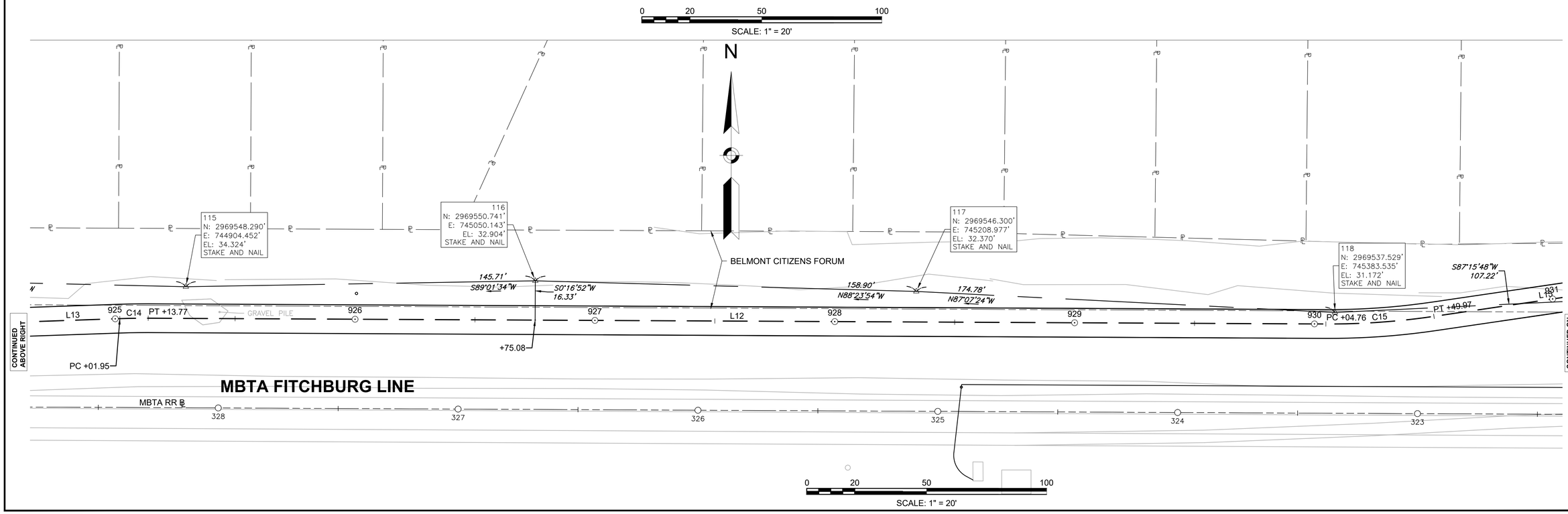
609204_HD (BORDER SHEET).DWG Plotted on Sep-26 9:02 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	24	221
PROJECT FILE NO.	609204		

BASELINE TIES PLAN





Nitsch – P:\9720.23 great barrington\transportation\cad\607756 cad\project drawing data\dwg\references\xref\607756_HD (Border Sheet).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	STP/CMQ/TAP-0034(035)X	25	221
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

N

CHANNING ROAD

ALEXANDER AVENUE

MBTA FITCHBURG LINE

MBTA LAYOUT

BELMONT CITIZENS FORUM

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

N83°48'32"E
299.82'

N86°36'14"W
563.75'
TO #3

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

39.73'
S68°47'47"W

CNC NAIL WASHER

S55°20'10"W
33.63'

CNC NAIL WASHER

S46°37'42"W
47.33'

CONC

PK NAIL WASHER

IR 1D 0.1 DOWN

PC +12.36
PT +27.04
PC +34.68

L32 L39 C27

S74°28'40"E
70.82'

S41°07'44"E
194.15'

501 PT 105.61

L33

PC +77.76
PT +85.93

BENCHMARK: EDGE CONC
EL=29.96'
STORAGE ON CONC. PAD

WD SHED

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

S87°24'16"E
97.65'

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

S87°15'48"W
107.22'

PC +44.99
C16
PT +82.69
L19
L31
PT +49.97
930
PC +04.76
C15

932
933
C20
PI +97.45
PI +93.80
C22 L41
502
PI +19.69
C21
L18
934
C17
PC +26.61
PT +59.47
935
L16

CONTINUED ON SHEET NO. 24

CONTINUED ON SHEET NO. 26

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

N88°24'47"W
172.44'

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

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

SWITCH

324
323
322
321
320
319
31

MBTA RR ℄

RRSW

N70°18'59"E
32.03'

L34

INSET

TRACK
GRASS
VGC
FENCE
BUILDING
CLF
CONC. WALL
CONC. PADS
RUNNING TRACK

L36 C30 L37 C31 505 L38

C28 PC +46.78 503

PT +32.95

L35

PC +75.99

504 C29

PT +18.43

CONTINUED ON INSET ABOVE

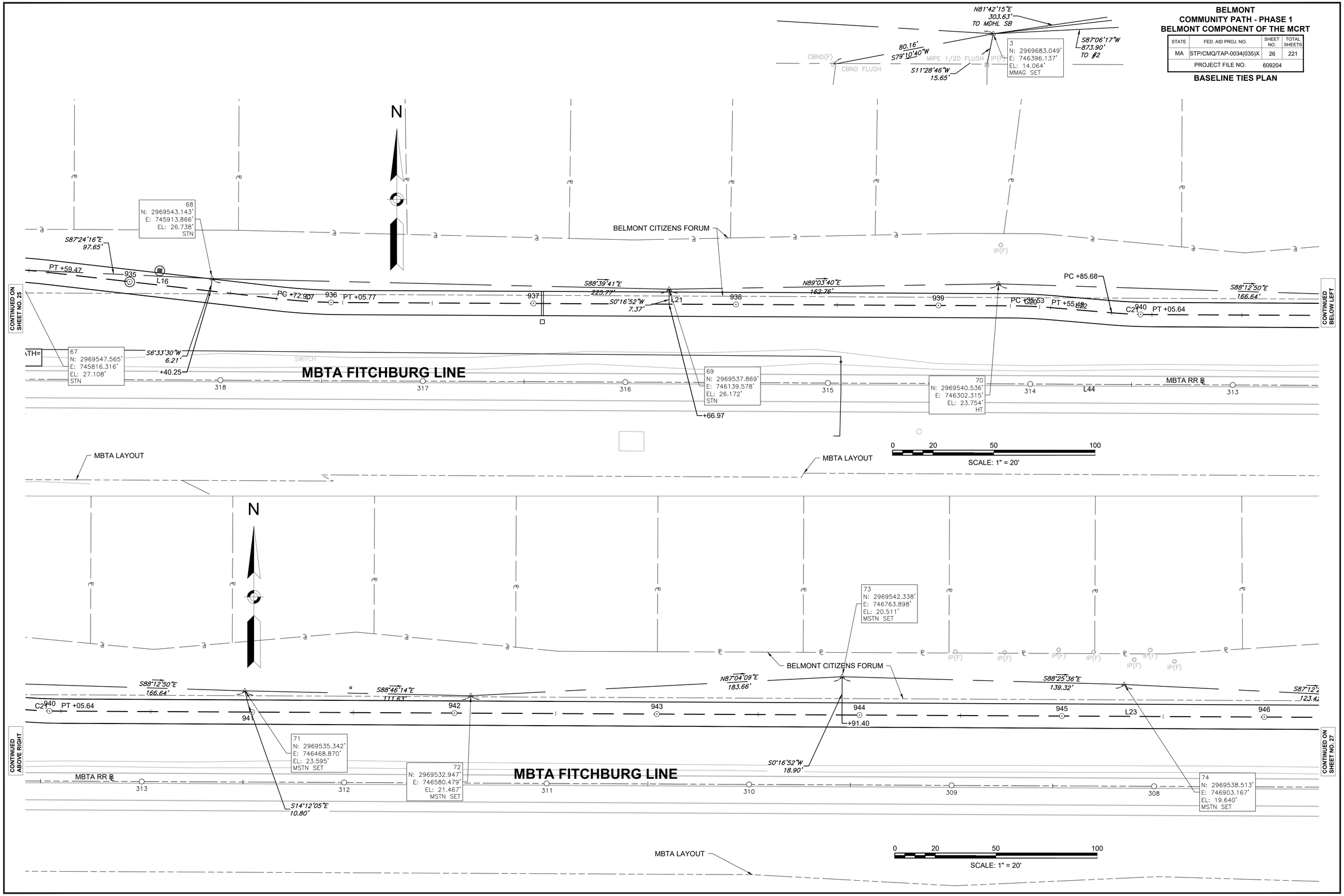
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SCALE: 1" = 20'

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	26	221
PROJECT FILE NO.	609204		

BASELINE TIES PLAN



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 Sep-26 9:02 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	27	221
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

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

N86°30'22"W 396.69' TO #2
N26°55'17"W 223.17' TO #100

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

CHANNING ROAD

N

BELMONT CITIZENS FORUM

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

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

CONTINUED ON SHEET NO. 26

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

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

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

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

308 307 306 305 304 303 302

PC +62.84 PT +97.51 MBTA RR ℄

MBTA FITCHBURG LINE

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

CONTINUED BELOW LEFT

MBTA LAYOUT

0 20 50 100
SCALE: 1" = 20'

N

JERSEY BARRIER RETAINING WALL
METAL CONTAINER
BOULDER
IP(F)

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

N26°55'17"W 223.17' TO #1

CONSTRUCTION MATERIALS, PLOWS, JERSEY BARRIERS, ETC.

MET BIN MET BIN

PROP 40' SLIDING GATE +00 TO +40 LT

BENCHMARK: TOP COR CNC EL=15.91'

CONC PAD

S89°06'41"E 204.44'
S72°25'59"E 69.20'
S89°40'32"E 750.99'
N88°47'45"E 579.49'

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

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

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

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

S0°19'28"W 20.28'

MBTA FITCHBURG LINE

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 28

0 20 50 100
SCALE: 1" = 20'

MBTA LAYOUT

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	28	221
PROJECT FILE NO.	609204		

BASELINE TIES PLAN

N

TOP COR CNC

CONC. PAD

2 STORY CONCRETE BUILDING

959+53.83 BELMONT COMMUNITY PATH=
201+73.42 BRIGHTON ST

PT +29.22

N88°47'45"E
579.49'

PC +95.13

PRC +24.61

PT +54.32

N84°51'21"W
46.28'

N89°19'58"W
236.08'

961+66.97

101
N: 2969516.206'
E: 748345.285'
EL: 12.376'
MMAG

55
N: 2969513.457'
E: 748581.349'
EL: 12.334'
MMAG

PROJECT END
STA 960+90
N2969514.3960
E748458.3716

PC +10.78

MBTA LAYOUT

MBTA RR

RRSG

CONC WALK

SWK

CONC

RBTL

957 958 959 960 961 961+66.97

297 296 295 294 293 292

C10 C11 C12 L10 L11 L43

202

FITCHBURG CUTOFF

MBTA FITCHBURG LINE

BRIGHTON STREET

CONTINUED ON SHEET NO. ####

0 20 50 100
SCALE: 1" = 20'

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 Sep-26 9:03 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	29	221
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 731.78'	959+10.78	2969501.3383	748282.0378
C10	959+10.78	2969501.3383	748282.0378	R=75.00' Δ=14°05'31" L=18.45' T=9.27'		959+29.22	2969503.4919	748300.3112
L10	959+29.22	2969503.4919	748300.3112		N76°13'57"E 65.90'	959+95.13	2969519.1753	748364.3193
C11	959+95.13	2969519.1753	748364.3193	R=75.00' Δ=22°31'40" L=29.49' T=14.94'		960+24.61	2969517.5042	748393.5707
C12	960+24.61	2969517.5042	748393.5707	R=75.00' Δ=22°41'49" L=29.71' T=15.05'		960+54.32	2969512.9081	748422.7271
L11	960+54.32	2969512.9081	748422.7271		N87°36'35"E 112.65'	961+66.97	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 (BORDER SHEET).DWG Plotted on Sep-26 9:03 AM

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	STP/CMQ/TAP-0034(035)X	30	221
PROJECT FILE NO.	609204		

BASELINE TIES 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	STP/CMQ/TAP-0034(035)X	31	221
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD/TIMBER RAIL DETAILS

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

TRAFFIC SIGNAL CONDUIT

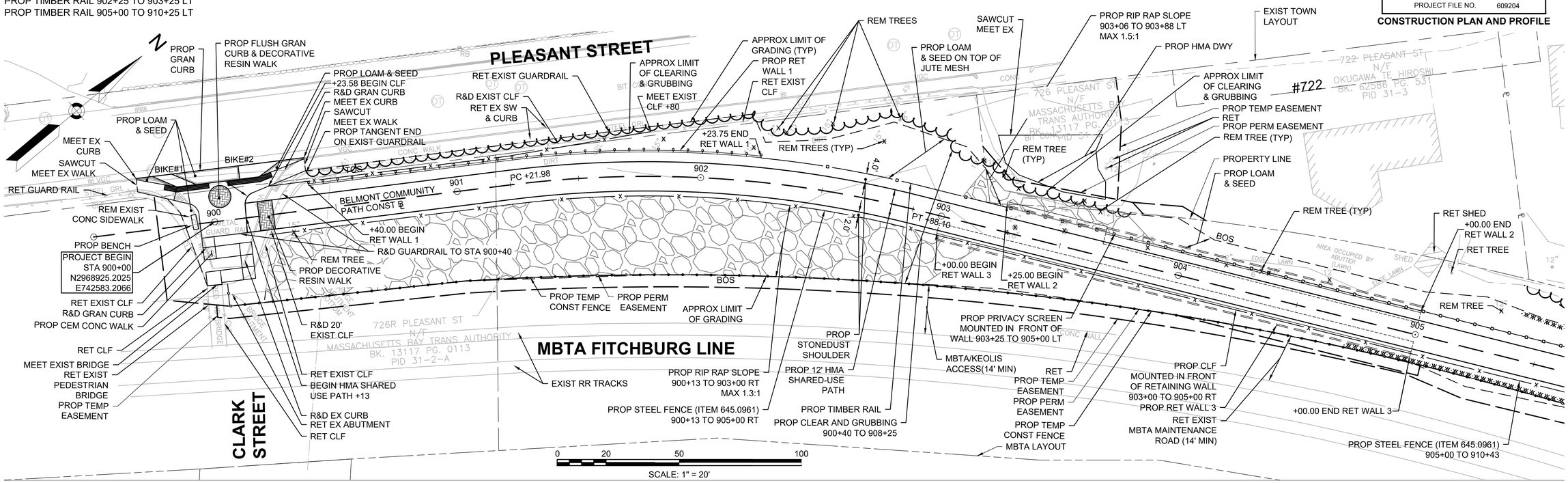
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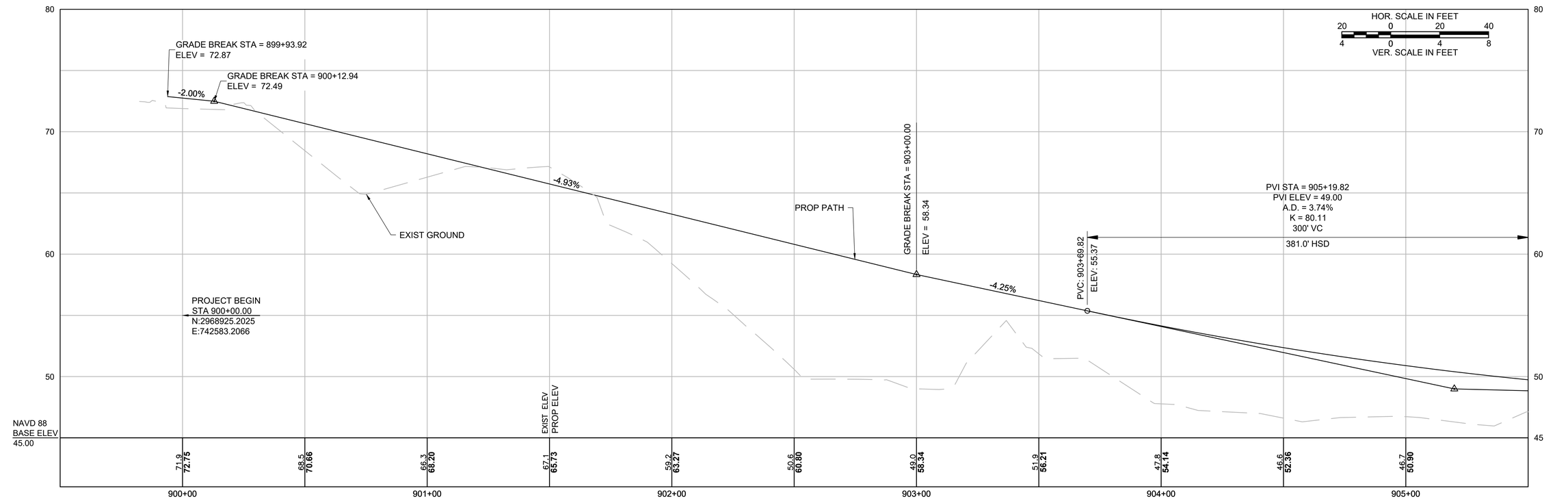
WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 73





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	STP/CMQ/TAP-0034(035)X	32	221
PROJECT FILE NO.	609204		

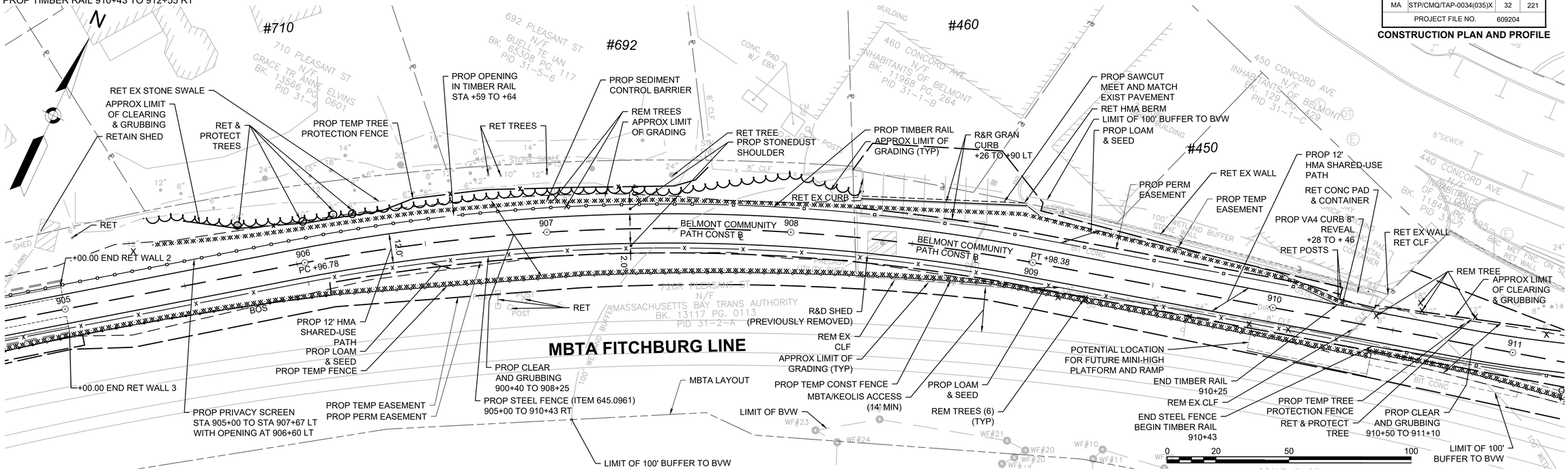
CONSTRUCTION PLAN AND PROFILE

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

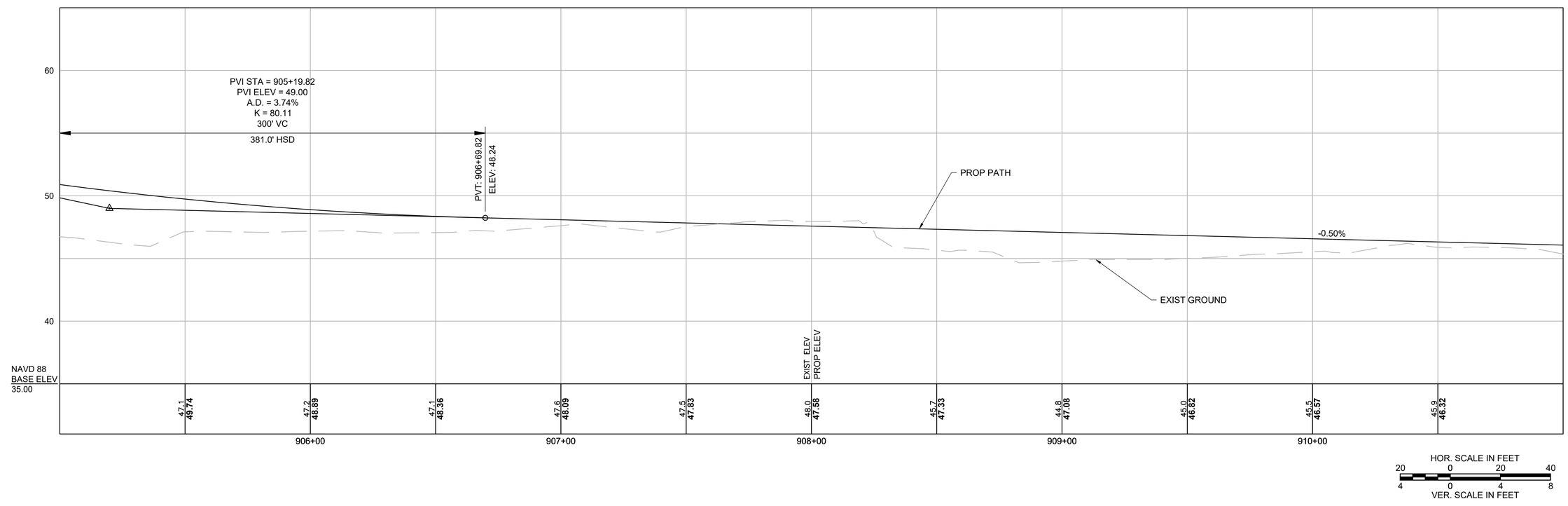
TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 73



CONTINUED ON SHEET NO. 31



CONTINUED ON SHEET NO. 33

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	33	221
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

TIMBER RAIL DETAILS

PROP TIMBER RAIL 910+43 TO 912+55 RT
PROP TIMBER RAIL 912+71 TO 914+14 RT
PROP PICKET FENCE 912+63 TO 913+61 LT
PROP TIMBER RAIL 913+75 TO 914+14 LT
PROP TIMBER RAIL 50+02 TO 51+20 LT

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 74

N

CONCORD AVENUE

LIMIT OF WORK
STA 912+43.42
N2969562.7233
E743616.1721

POTENTIAL LOCATION FOR FUTURE MINI-HIGH PLATFORM AND RAMP
RET GRAN CURB
PROP STONEDUST SHOULDER
RET WALL
PROP PERM EASEMENT
RET WALK
REM TREES
PROP TEMP EASEMENT
PROP LOAM & SEED
REM TREES
RET
MEET EX PLATFORM
APPROX LIMIT OF GRADING
PROP 12' HMA SHARED-USE PATH
RET STAIRS
SAWCUT MEET AND MATCH EXIST
TOWN LAYOUT
PROP DECORATIVE RESIN WALK
PROP HMA WALK
PROP CEMENTED STONE MASONRY WALL (685.0.1)
SAWCUT MEET AND MATCH EXIST
SAWCUT MEET AND MATCH EXIST
RET GRAN CURB
REM EX STAIRS
PROP CEM CONC STAIRS (E901.5.1 & E901.5.2)
SAWCUT MEET AND MATCH EXIST
PCR #1
50+00
RET
BELMONT STATION RAMP CONST B
REM EXIST TREES ALONG RAMP (TYP)
PC +71.30
913
912
PT +04.87
BELMONT COMMUNITY PATH CONST B
PC +32.23
911
OFFSET 43.69
23.18
REM TREE (2)
PROP TEMP TREE PROTECTION FENCE
RET EXIST COVER
RET EXIST PLATFORM
REM EXPOSED CEM CONC WALL
RET EXIST CEM CONC WALL
RET EXIST TUNNEL (BELOW)
PROP LANDSCAPE AREA
PROP TEMP CONST FENCE
PROP HMA WALK
PROP TIMBER RAIL
R&R SIGN ASSEMBLY
RET
PROP TIMBER RAIL
SAWCUT MEET EXIST PLATFORM
340+61
RET BENCH
340
PROP LANDSCAPE AREA SEE LANDSCAPE PLANS
PROP TIMBER RAIL
PROP PICKET FENCE
BOS
PRC +49.82
PT +82.17
914
51+39.48
PROP LOAM & SEED SHOULDER
PROP TEMP EASEMENT
BELMONT COMMUNITY PATH CONST B
APPROX LIMIT OF GRADING (TYP)
RET GRAN CURB
PROP 2' SHOULDER
PROP 1' SHOULDER
BELMONT STATION RAMP CONST B
PROP PERM EASEMENT
PROP 10' HMA WALK
RET METAL RAIL
RET TREE
PROP TEMP TREE PROTECTION FENCE
PROP LOAM AND SEED
REM TREE
RET EXIST FENCE
REM TREE
R&S
915
PC +07.65
PRC +41.29
PT +66.58
916
MBTA LAYOUT
PROP PROP STEEL FENCE (ITEM 645.0961)
APPROX LIMIT OF GRADING (TYP)
PROP PEDESTRIAN UNIT PAVERS AND SEATING AREA
PROP TEMP CONST FENCE
PROP 40' SLIDING GATE +05 TO +60 RT
#7
PROP TIMBER RAIL
RET EXIST LOT
RET EXIST WALL AND FENCE
REM EXIST CLF
PROP CLF
PROP 2:1 SLOPE
PROP TEMP EASEMENT
PROP PERM EASEMENT
RET
RET CLF
PROP LOAM & SEED
7 CHANNING ROAD
SAWCUT MEET EXIST
R&R CURB +00 TO +93 RT
PROP MULCH
PROP 8' CEM CONC WALK
REM EXIST WALL
PC +19.77
PT +29.18
PC +12.59
PT +32.50
PC +68.45
REM TREES #19 (3) (TYP)
PI +53.93
PROP TEMP EASEMENT
REM BUSHES
R&R FENCE ALONG PROPERTY LINE
APPROX LIMIT OF GRADING (TYP)
RET FENCE
PROP TEMP TREE PROTECTION FENCE
RET & PROTECT TREE
PROP PERM EASEMENT
PC +14.05
337
REM TREES (19) (TYP)
PROP TEMP EASEMENT
7 CHANNING RD N/F
RETAIL STORE PROCESSING INC
BK. 30134 PG. 597
PID 35-29
N/F LOPES TERES/ BK. 48402 PG. 28 PID 35-28
19 CHANNING RD, UNIT 19

MBTA FITCHBURG LINE

BELMONT STATION

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

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 32
CONTINUED ON SHEET NO. 34

PVI STA = 913+70.49
PVI ELEV = 44.70
A.D. = -0.35%
K = 141.20
50' VC
3072.6' SSD
PVC: 913+45.49
ELEV: 44.83
PVT: 913+95.49
ELEV: 44.49
-0.50%
-0.86%
PROP PATH
EXIST GROUND
BELMONT STATION RAMP +63 TO +73
BELMONT STATION UNDERPASS
+75 +82
CONCORD AVE BRIDGE
+40 +13
NAVD 88 BASE ELEV 30.00
EXIST ELEV
PROP ELEV

911+00	912+00	913+00	914+00	915+00	916+00
45.3 / 46.07	44.4 / 45.81	44.4 / 45.56	44.8 / 45.31	43.0 / 45.06	43.3 / 44.80
				43.8 / 44.45	42.8 / 44.02
					43.7 / 43.59
					42.9 / 43.16
					41.5 / 42.73

STA 913+68.72 BELMONT COMMUNITY PATH =
STA 51+30.54 BELMONT STATION RAMP

60 50 40 30

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

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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	STP/CMQ/TAP-0034(035)X	34	221
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

N

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 915+98 TO 916+81 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 74

MEET EXIST SIDEWALK
PROP MULCH
LIMIT OF WORK
STA 0+00
N2969678.6910
E743971.3005
REM EX SHRUB
#7 CHANNING ROAD CONST ℄
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 RIP RAP SLOPE 1+20 TO 2+11 LT MAX 1.3:1
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)
APPROX LIMIT OF CLEARING & GRUBBING
REM TREES (TYP)
MEET EXIST BLDG ELEV
PC +12.37
PT +29.18
PT +12.82
PT +08.25
BELMONT CITIZENS FORUM
BELMONT COMMUNITY PATH CONST ℄
PT +66.58
PC +12.59
PT +32.50
PC +68.45
PROP 12' HMA SHARED-USE PATH
PROP LOAM & SEED SHOULDER
PROP PRIVACY SCREEN STA 920+44 TO 920+99 LT
PROP PERM EASEMENT
REM TREES (19) (TYP)
PC +14.05
APPROX LIMIT OF GRADING (TYP)
PROP PERM EASEMENT
PROP TEMP EASEMENT
PROP TEMP EASEMENT
PROP TEMP CONST FENCE
PROP STEEL FENCE (ITEM 645.0961) 913+75 TO 933+20 LT
916+87.53 BELMONT COMMUNITY PATH=
2+21.72 7 CHANNING ROAD
PROP CLEARING AND GRUBBING 916+00 TO 932+75
PROP LOAM & SEED MBTA/KEOLIS ACCESS (14' MIN)
9' MIN CLEARANCE FROM TRACKS
PROP 40' SLIDING GATE +29 TO +82 RT
PROP LOAM & SEED

MBTA FITCHBURG LINE

#19 LOPES N/F TERESA P BK. 46402 PG. 168 PID 35–28 19 CHANNING RD, UNIT 19
#23-25 DALILI TE DARIUSH P N/F BK. 53545 PG. 580 PID 35–27 23–25 CHANNING RD
#29 FUNKENSTEIN TE AMY N/F BK. 31896 PG. 322 PID 35–26 29 CHANNING RD, UNIT 2
#31-33 SCHILLING PETER M N/F BK. 30658 PG. 3 PID 35–25 31–33 CHANNING RD
#35 STANLEY CICALESE JULIE M N/F BK. 25672 PG. 125 PID 35–24 35 CHANNING RD, UNIT 35
#39 PARSONS IAN N/F REVOCABLE TRUST OF 2018 BK. 71760 PG. 187 PID 35–23 39 CHANNING RD, UNIT 2
#45-47 GALLOWAY CRAIG R N/F BK. 49176 PG. 429 PID 35–22 45–47 CHANNING RD
#49-51 FAN TE ZHIMING N/F BK. 28701 PG. 213 PID 35–21 49–51 CHANNING RD
#53 BRUNO MARION REVOCABLE TRUST BK. 13560 PG. 0743 PID 35–20 53 CHANNING RD N/F
#57-59 ATINIZ NIGOOS N/F BK. 18541 PG. 283 PID 35–19 57–59 CHANNING RD
#61-63 MURPHY III E PATRICK J BK. 18432 PG. 0090 PID 35–18 61–63 CHANNING RD N/F
MBTA CHANNING RD N/F BELMONT CITIZENS FORUM BK. 51653 PG. 19 PID 35–14–A

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 33
CONTINUED ON SHEET NO. 35

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 ℄

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

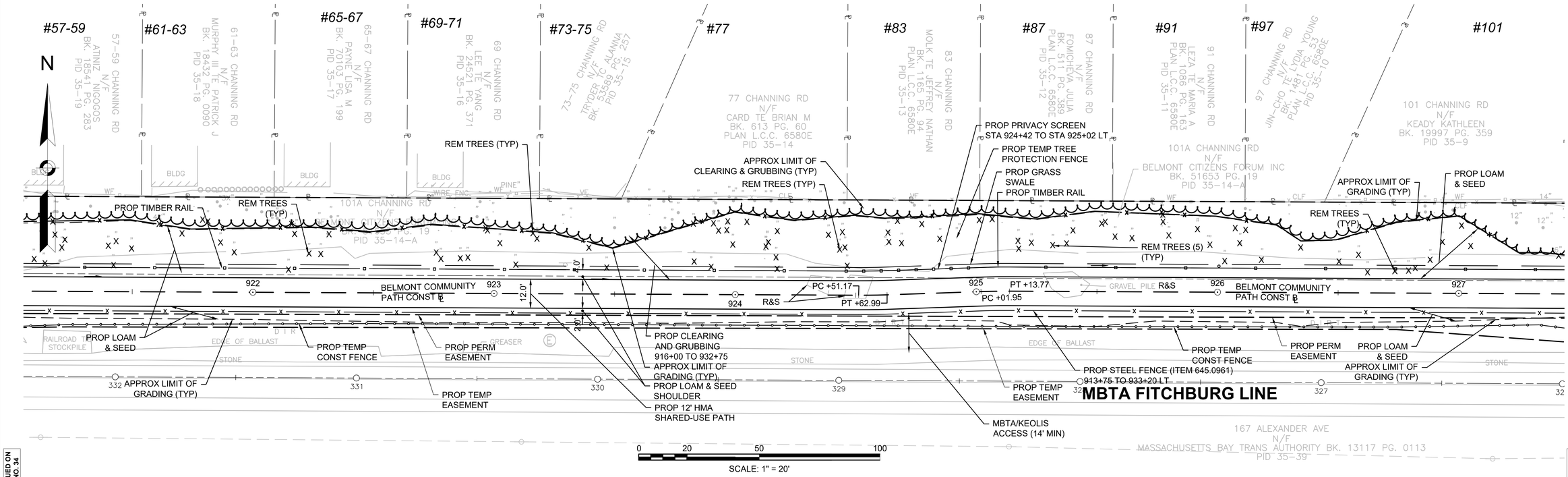
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	35	221
PROJECT FILE NO.	609204		

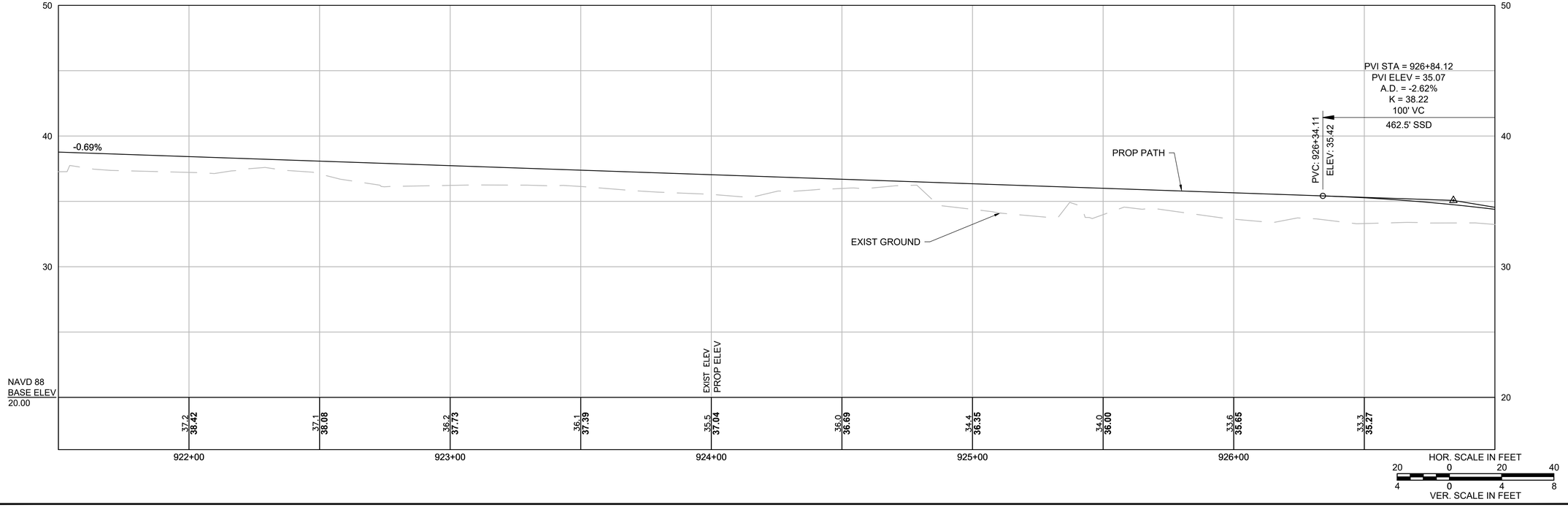
CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 916+93 TO 931+20 LT	NONE	NONE	SEE SHEET 75



CONTINUED ON SHEET NO. 34

CONTINUED ON SHEET NO. 36



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609204_HD (BORDER SHEET).DWG Plotted on Sep-26 9:04 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	36	221
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS
PROP TIMBER RAIL 916+93 TO 931+20 LT

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 75

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

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

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

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
REM TREES (TYP)
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
PC +04.76
PT +49.97
R&S
GRAVEL PILE
BELMONT COMMUNITY PATH CONST ℄
BELMONT COMMUNITY PATH CONST ℄
SIGNAL TOWER
BUILDING (BLOCKED) 2 STORIES (TYP)
2.0'
2.0'
12.0'

PROP TIMBER RAIL
PROP STEEL FENCE (ITEM 645.0961)
PROP PERM EASEMENT
PROP TEMP CONST FENCE
PROP LOAM & SEED
PROP CLEARING AND GRUBBING 916+00 TO 932+75
APPROX LIMIT OF GRADING (TYP)
BEGIN RET WALL 4 +99.13
REM TREES (TYP)
PROP TIMBER RAIL
PROP GRASS SWALE 917+08 TO 931+36 LT
GRAVEL/DIRT
EDGE OF BALLAST
STONE
EHH

PROP TEMP EASEMENT
MBTA/KEOLIS ACCESS (14' MIN)
MBTA FITCHBURG LINE
PROP PERM EASEMENT
MBTA/KEOLIS ACCESS (14' MIN)
SIGNAL TOWER
PROP TEMP EASEMENT
PROP 12' HMA SHARED-USE PATH
PROP PERM EASEMENT

PROP 30' SLIDING GATE +50 TO +80 RT

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 35

CONTINUED ON SHEET NO. 37

PVI STA = 926+84.12
PVI ELEV = 35.07
A.D. = -2.62%
K = 38.22
100' VC
462.5' SSD
PVC: 926+34.11 ELEV: 35.42
PVT: 927+34.12 ELEV: 33.42
-0.69 %
-3.31%
EXIST GROUND
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

CONTINUED ON SHEET NO. 38

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	37	221
	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 PROP TIMBER RAIL 935+16 TO 953+45 LT	NONE	NONE	SEE SHEET 76

N

CHANNING ROAD

ALEXANDER AVENUE

MBTA FITCHBURG LINE

BELMONT MIDDLE AND HIGH SCHOOL

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

PROP SAWCUT
MEET AND MATCH
EXIST PAVEMENT +09.42

ALEXANDER AVE SPUR CONST ℄
PC +12.36

PCR #6

PROP PRIVACY SCREEN
STA 500+13 TO 501+25 LT

PROP PRIVACY SCREEN
STA 500+13 TO 501+25 RT

PROP LOAM & SEED

REM TREES

PROP TEMP
EASEMENT

APPROX LIMIT OF
CLEAR AND GRUBBING (TYP)

+25.00 BEGIN RET WALL 6

APPROX LIMIT OF
GRADING (TYP)

PROP 10' HMA
SHARED-USE PATH

PT +27.04

PC +34.68

RET
TREE

PROP LIGHT POLE, TYP
SEE LIGHTING PLANS

RET

REM EXIST FENCE

PROP DECORATIVE
RESIN WALK (TYP)

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 TEMP CONST FENCE

PROP 12' HMA
SHARED-USE PATH

R&D EXIST FENCE

PROP TEMP
EASEMENT

+14.90 END RET WALL 6

PROP CLEARING
AND GRUBBING
501+25 TO 944+55 LT

PROP TEMP TREE
PROTECTION
FENCE

END PROP TIMBER
RAIL 931+20 LT

+07.60 BEGIN RET WALL 5

BELMONT
CITIZENS FORUM

PROP TEMP
EASEMENT

PROP CLEARING
AND GRUBBING
916+00 TO 932+75

R&D EXIST FENCE

PROP TEMP
EASEMENT
+25.05 END RET WALL 5

REM TREE

R&D STORAGE AREA, CONC
PAD AND MISC. ITEMS

PROP CLF MOUNTED
ON RET WALL (TYP)

R&D EXIST FENCE

PT +82.67

PC +44.99

PC +04.76

PT +49.97

REM TREES (TYP)

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

PROP GRASS SWALE
917+08 TO 931+36 LT

PROP DECORATIVE
RESIN WALK (TYP)

REM TREES (TYP)

RET MBTA SIGNAL
EQUIPMENT ON CONC PAD

PROP RET WALL 4

PROP CRUSHED
STONE SHOULDER

PROP TEMP SOE

PROP LOAM
& SEED

PI +97.45

PC +09.99
PI +19.69

PT +30.56

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

MBTA/KEOLIS
ACCESS (14' MIN)

PROP LOAM
& SEED

PROP PERM
EASEMENT

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

+15.32 BEGIN
WINGWALL 7

PROP TEMP
EASEMENT

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)

PC +49.78

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)

RET GRAN
CURB

PROP 10' HMA
SHARED-USE PATH

REM EXIST LP

PC +75.99

APPROX LIMIT OF
GRADING (TYP)

R&D EXIST FENCE

PT +18.43

PC +26.61

PT +59.47

BELMONT COMMUNITY
PATH CONST ℄

REM PROPANE TANK (BO)
(TO BE COORDINATED WITH MBTA)
PROP LIMIT OF TRACK REMOVAL

MASSACHUSETTS BAY TRANS AUTHORITY
BK. 13117 PG. 0113
PID 35-42

INSET

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

REM LIGHT

PROP LOAM &
SEED SHOULDER

RET GRAN CURB

RET LIGHT

SAWCUT
MEET AND MATCH
EXIST CEM CONC SW +25.48

PROP TEMP
EASEMENT

END TIMBER
RAIL +26

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

145 CHANNING RD N/F GRASS 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

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

CONTINUED ON SHEET NO. 36

CONTINUED ON SHEET NO. 40

CONTINUED ON INSET ABOVE

SEE SHEETS 38 & 39 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	STP/CMQ/TAP-0034(035)X	38	221
PROJECT FILE NO.	609204		

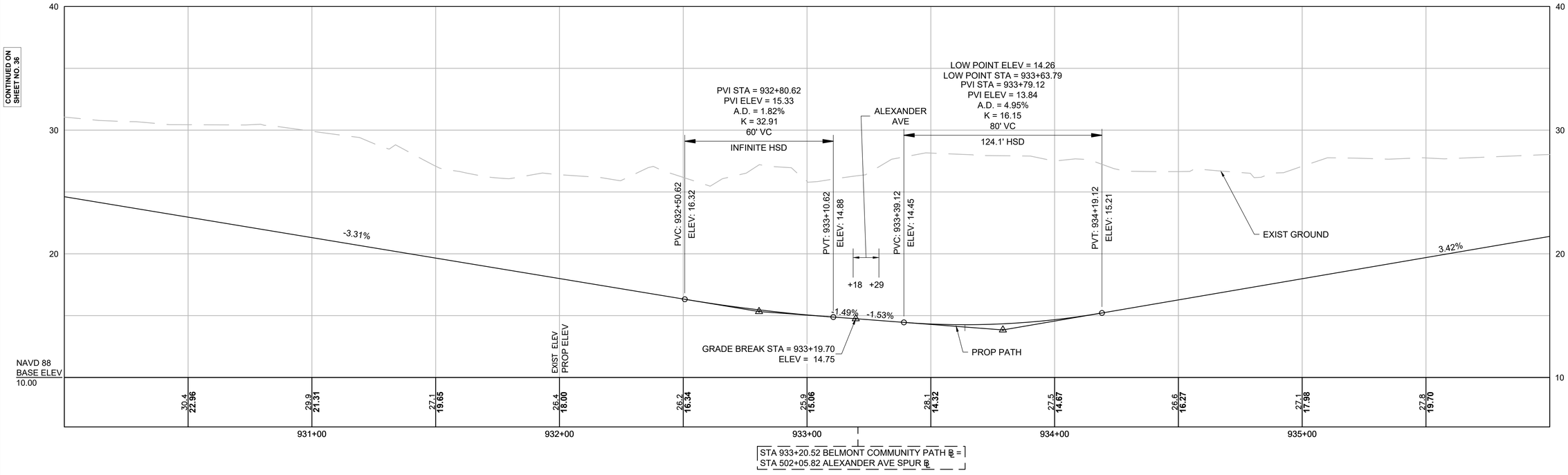
CONSTRUCTION PLAN AND PROFILE

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BELMONT COMMUNITY PATH

CONTINUED ON SHEET NO. 36

CONTINUED ON SHEET NO. 40



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

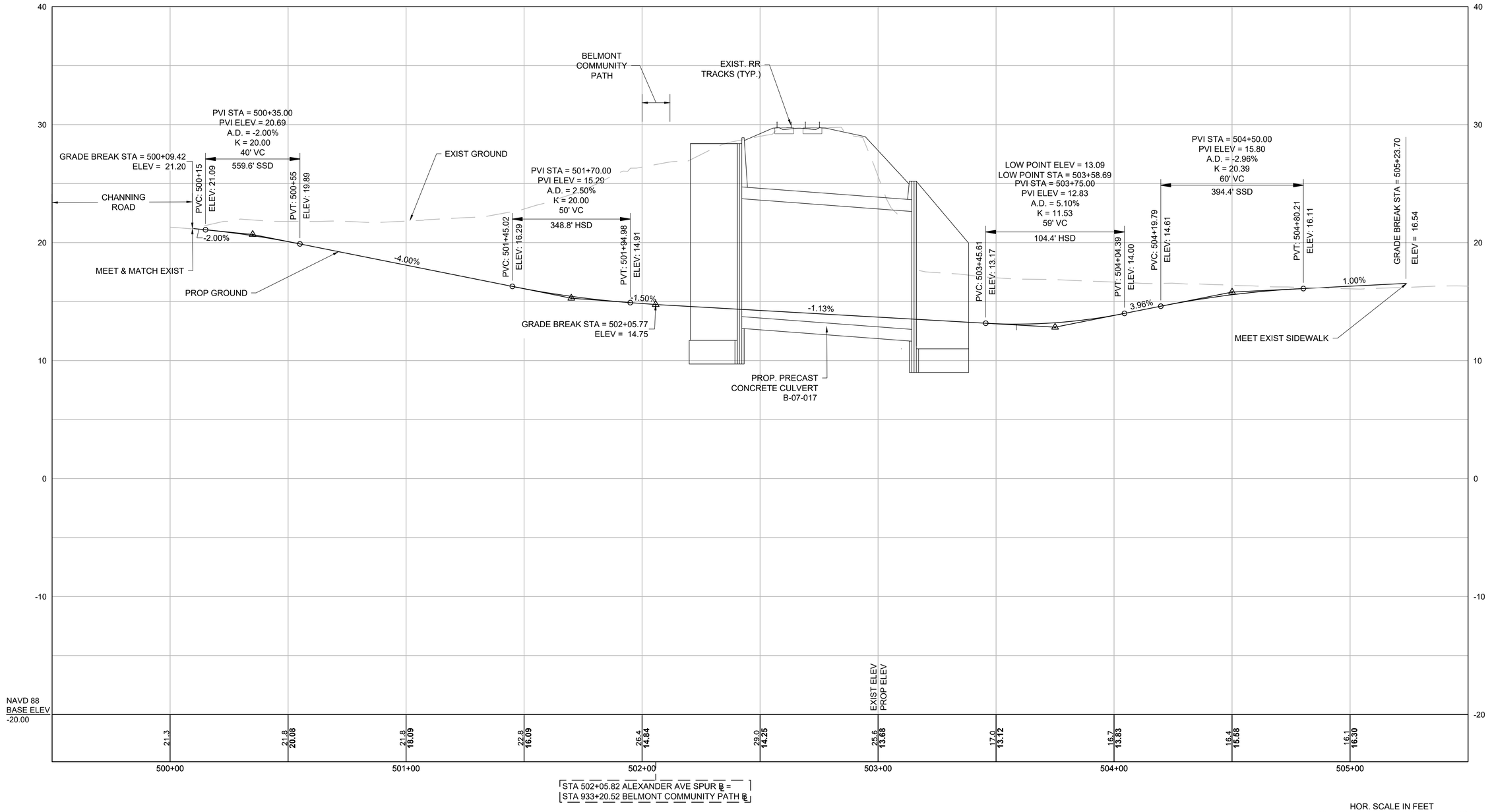
SEE SHEET 37 FOR CONSTRUCTION PLAN

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	39	221
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

ALEXANDER AVE SPUR



SEE SHEET 37 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	STP/CMQ/TAP-0034(035)X	40	221
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

HIGHWAY GUARD DETAILS
PROP TIMBER RAIL 935+16 TO 953+45 LT

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 77

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

PROP TEMP EASEMENT
PROP CLEARING AND GRUBBING 501+25 TO 944+55 LT
+14.90 END RET WALL 6
APPROX LIMIT OF CLEARING & GRUBBING
PROP LOAM AND SEED
PROP TIMBER RAIL
BEGIN PROP TIMBER RAIL 935+16
RET EXIST FENCE
PROP GRASS SWALE 935+73 TO 951+57 LT
PROP 12' HMA SHARED-USE PATH
BELMONT CITIZENS FORUM
101A CHANNING RD
BELMONT CITIZENS FORUM INC
BK. 51653 PG. 19
RET EXIST FENCE
PROP CLEARING AND GRUBBING 501+25 TO 944+55 LT
APPROX LIMIT OF GRADING (TYP)
REM PROPANE TANK (BO) (TO BE COORDINATED WITH MBTA)
PROP LOAM AND SEED
PT +59.47
935
BELMONT COMMUNITY PATH CONST
PC +72.90
936
PT +05.77
937
12.0'
BELMONT COMMUNITY PATH CONST
938
939
PC +35.53
PT +55.48
940
PT +05.64
PC +85.68
BELMONT COMMUNITY PATH CONST
CONTINUED ON SHEET NO. 37
CONTINUED ON SHEET NO. 41
GRAVEL
GRAVEL/DIRT
WOODED AREA
PROPANE TANK
BOLLARDS (TYP.)
SIGNAL TOWER
EDGE OF BALLAST
STONE
EHH
EHHSWING
EHHT
MBTA/KEOLIS ACCESS (14' MIN)
PROP CLF 933+68 TO 959+30 RT
PROP PERM EASEMENT
PROP TEMP EASEMENT
PROP 30' SLIDING GATE +50 TO +80 RT
PROP TEMP CONST FENCE
PROP PERM EASEMENT
PROP LOAM AND SEED
PROP PERMANENT NTCS (ITEM 871.22)
MBTA/KEOLIS ACCESS (14' MIN)
APPROX LIMIT OF GRADING (TYP)
APPROX LIMIT OF GRADING (TYP)
MBTA/KEOLIS ACCESS (14' MIN)
318
317
315
314
313
167 ALEXANDER AVE
N/F
MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 0113
PID 35–39
161 CHANNING TRL
N/F
MASSACHUSETTS BAY TRANS AUTHORITY
BK. 1547 PG. 443
PID 35–42

MBTA FITCHBURG LINE

MBTA LAYOUT
4"
MBTA LAYOUT

0 20 50 100
SCALE: 1" = 20'

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

PROP PATH
3.42%
-0.71%
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**	25.5 / **26.26**	24.2 / **25.55**	23.6 / **24.84**
28.0 / **21.41**	26.3 / **26.06**	25.1 / **25.90**	23.4 / **25.20**	
27.6 / **23.12**				

40
30
20
10

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

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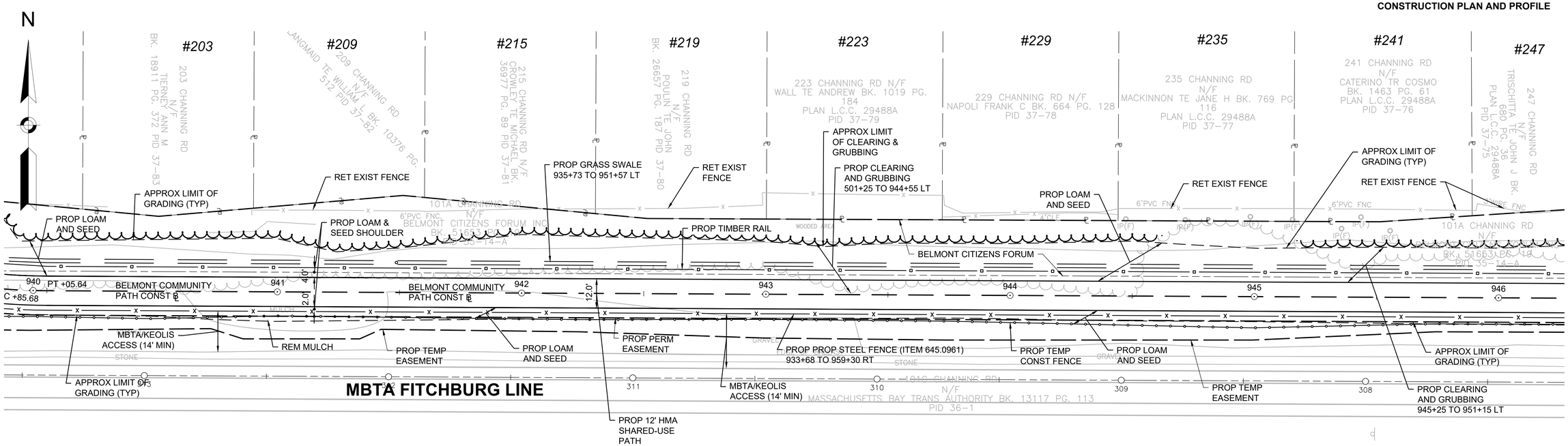
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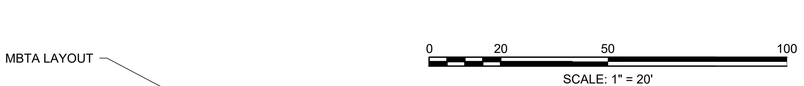
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	41	221
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

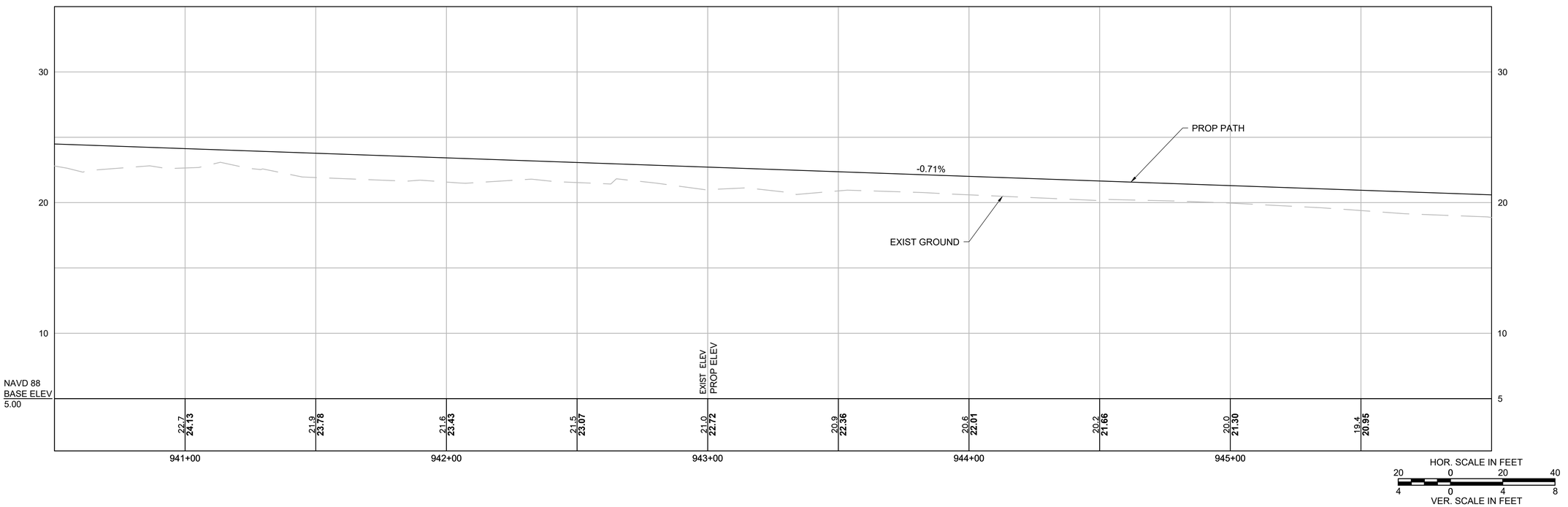
HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT	WATER SUPPLY ALTERATIONS	DRAINAGE DETAILS
PROP TIMBER RAIL 935+16 TO 953+45 LT	NONE	NONE	SEE SHEET 77





CONTINUED ON SHEET NO. 40

CONTINUED ON SHEET NO. 42



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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	42	221
	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 78

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 ISAAH S BK. 1518 PG. 174 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 12' HMA SHARED-USE PATH
PROP LOAM & SEED SHOULDER
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 TEMP EASEMENT
PROP TEMP CONST FENCE
PROP PERM EASEMENT
MBTA/KEOLIS ACCESS (14' MIN)
PROP PROP STEEL FENCE (ITEM 645.0961) 933+68 TO 959+30 RT
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 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. 41
CONTINUED ON SHEET NO. 43

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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609204_HD (BORDER SHEET).DWG Plotted on Sep-26 9:06 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	43	221
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 78

N

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

#301 — 301 CHANNING RD N/F JANG TE JIN SEOP BK. 11199 PG. 498 PID 38-47

#307 — 307 CHANNING RD N/F IRIER ELIZABETH A BK. 57433 PG. 341 PID 38-48

#315 — 315 CHANNING RD N/F TE CYNTHIA J BK. 29523 PG. 88 PID 38-48-A

#321 — 321 CHANNING RD N/F BRUCE TR JAMES W BK. 14788 PG. 577 PID 38-48-B

#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

RD J 122

NG RD

FORUM INC

STANLEY

6"PVC FNC.
6"WD FNC.
IP(F)
6"PVC FNC. ON CONC WALL
6"WD FNC.
WD SHED
CONC WALL
8"PVC FNC.
MET BIN
RET FENCE
RET SHED
PROP LOAM & SEED SHOULDER
RET METAL BIN
RET METAL CONTAINERS
PROP TEMP EASEMENT
APPROX LIMIT OF GRADING (TYP)
PROP 40' SLIDING GATE +00 TO +40 LT
RET BOLLARD
RET PAD
RET BOLLARD
MEET EXIST BLDG
PROP TEMP EASEMENT
JERSEY BARRIER RETAINING WALL
RET
APPROX LIMIT OF GRADING (TYP)
PROP TEMP EASEMENT
R&S BOULDER
CONSTRUCTION MATERIALS, PLOWS, JERSEY BARRIERS, ETC.
PROP 11.5' HMA SHARED-USE PATH
PROP CLF
BIT CONC
CONC PAD
PROP CLF
PC +44.48
C11.5'
952
953
954
955
956
957
11.5'
10'
D
BELMONT COMMUNITY PATH CONST B
GRASS
STONE
GRASS FILL OF BALLAST
302
301
300
299
298
297
296
PROP TEMP EASEMENT
PROP TEMP CONST FENCE
EXIST EASEMENT FOR PATH
MBTA LAYOUT
PT +79.00
PROP LOAM AND SEED
9.4' CLEARANCE FROM TRACK
APPROX LIMIT OF GRADING (TYP)
9.3' CLEARANCE FROM TRACK
EXIST EASEMENT FOR PATH
PROP PERM EASEMENT
PROP PROP STEEL FENCE (ITEM 645.0961) 933+68 TO 959+30 RT
13' EASEMENT
MBTA LAYOUT
13.8' FROM BLDG
MBTA LAYOUT

MBTA FITCHBURG LINE

0 20 50 100
SCALE: 1" = 20'

CONTINUED ON SHEET NO. 42

CONTINUED ON SHEET NO. 44

LOW POINT ELEV = 13.71
LOW POINT STA = 953+90.22
PVI STA = 953+84.12
PVI ELEV = 13.52
A.D. = 1.95%
K = 40.99
80' VC
1347.3' HSD

PVC: 953+44.12
ELEV: 13.97

PVT: 954+24.12
ELEV: 13.85

PVI STA = 955+59.12
PVI ELEV = 14.97
A.D. = -0.45%
K = 178.98
80' VC
2454.3' SSD

PVC: 955+19.12
ELEV: 14.64

PVT: 955+99.12
ELEV: 15.12

HIGH POINT ELEV = 15.35
HIGH POINT STA = 956+64.77
PVI STA = 956+79.12
PVI ELEV = 15.42
A.D. = -1.62%
K = 33.31
54' VC
692.7' SSD

PVC: 956+52.12
ELEV: 15.32

PROP PATH
EXIST GROUND
-1.12%
0.83%
0.38%

30
20
10
0

NAVD 88
BASE ELEV
0.00

EXIST ELEV
PROP ELEV

952+00	953+00	954+00	955+00	956+00
15.3 / **16.15**	15.0 / **15.59**	12.8 / **15.03**	11.9 / **14.47**	12.5 / **13.91**
		14.0 / **13.72**	13.8 / **14.07**	14.2 / **14.48**
				14.8 / **14.87**
				14.9 / **15.12**
				15.2 / **15.31**

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

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609204_HD (BORDER SHEET).DWG Plotted on Sep-26 9:06 AM

HIGHWAY GUARD DETAILS

PROP TIMBER RAIL 956+57 TO 959+33 LT

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 79

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	44	221
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

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

LIMIT OF PAVING
STA 202+35
N2969569.2032
E748309.7397

PROP DECORATIVE RESIN WALK
959+53.83 BELMONT COMMUNITY PATH=
201+73.42 BRIGHTON ST

PROP DECORATIVE RESIN WALK

PROPOSED 16.0' HMA SHARED-USE PATH

MEET AND MATCH EXIST SW

PROP CEM CONC SW

PC +95.13

RET FENCE

PRC +24.61

R&R BOLLARD

PT +54.32

RET CEM CONC BARRIER AND CLF

FITCHBURG CUTOFF

SAWCUT MEET AND MATCH

PROP 2" MILL & OVERLAY

MEET AND MATCH EXIST SW

RET EXIST WALL

RET LIGHT

RET

PT +29.22

PC +10.78

PROP DECORATIVE RESIN WALK

RET GRAN CURB

PROP TEMP EASEMENT

PROPOSED 11.5' HMA SHARED-USE PATH

RET EXIST CURB

RET CURB

PROP CLF

PROP AGED PINE BARK MULCH

R&R GRAN CURB 956+80 TO 959+25 LT

SAWCUT

END CLF +33

1.0'

11.5'

BELMONT COMMUNITY PATH CONST ℄

957

958

959

960

961

PCR#2

PCR#3

RET BOLLARD

REM EX HMA & ISLAND PROP LOAM & SEEDING

SAWCUT MEET EXIST PATH

RET FENCE

PROJECT END
STA 960+90
N2969514.3960
E748458.3716

293

292

294

295

296

297

PROP LOAM AND SEED

9.3' MIN CLEARANCE FROM TRACKS

MBTA LAYOUT

PROP TEMP CONST FENCE

EXIST EASEMENT FOR PATH

MBTA LAYOUT

PROP TEMP EASEMENT

PROP PROP PROP STEEL FENCE (ITEM 645.0961) 933+68 TO 959+30 RT

13' EXISTING EASEMENT

MBTA FITCHBURG LINE

REM UPL
REM SHRUB

R&S STONE WALL

REM LIGHT

RET RAIL ROAD TRAFFIC SIGNAL

PROP PED POST AND FND (TYP)

MBTA LAYOUT

MBTA LAYOUT

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

PCR#4

PCR#5

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

BRIGHTON STREET

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

36"SEWER

CONTINUED ON SHEET NO. 43

0 20 50 100
SCALE: 1" = 20'

HIGH POINT ELEV = 15.35
HIGH POINT STA = 956+64.77
PVI STA = 956+79.12
PVI ELEV = 15.42
A.D. = -1.62%
K = 33.31
54' VC
692.7' SSD

PVC: 956+52.12
ELEV: 15.32

PVT: 957+06.12
ELEV: 15.09

EXIST GROUND

PROP PATH

-1.24%

-0.82%

1.00%

-1.00%

1.50%

0.80%

GRADE BREAK STA = 959+20.97
ELEV = 12.42

GRADE BREAK STA = 959+50.82
ELEV = 12.47

GRADE BREAK STA = 959+72.55
ELEV = 12.41

GRADE BREAK STA = 959+34.61
ELEV = 12.31

GRADE BREAK STA = 959+66.32
ELEV = 12.32

GRADE BREAK STA = 960+54.31
ELEV = 13.07

MEET EXIST

PROJECT END
STA 960+90.00
N:2969514.3475
E:748457.2100

+32 +70

BRIGHTON STREET

NAVD 88
BASE ELEV
8.00

20
10
8

EXIST ELEV
PROP ELEV

15.2 / 15.31
15.0 / 15.16
14.5 / 14.54
13.9 / 13.92
13.3 / 13.30
13.6 / 12.88
12.3 / 12.46
13.0 / 12.63
13.1 / 13.03
12.9

957+00 958+00 959+00 960+00 961+00

STA 959+54.75 BELMONT COMMUNITY PATH ℄ =
STA 201+73.42 BRIGHTON ST ℄

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

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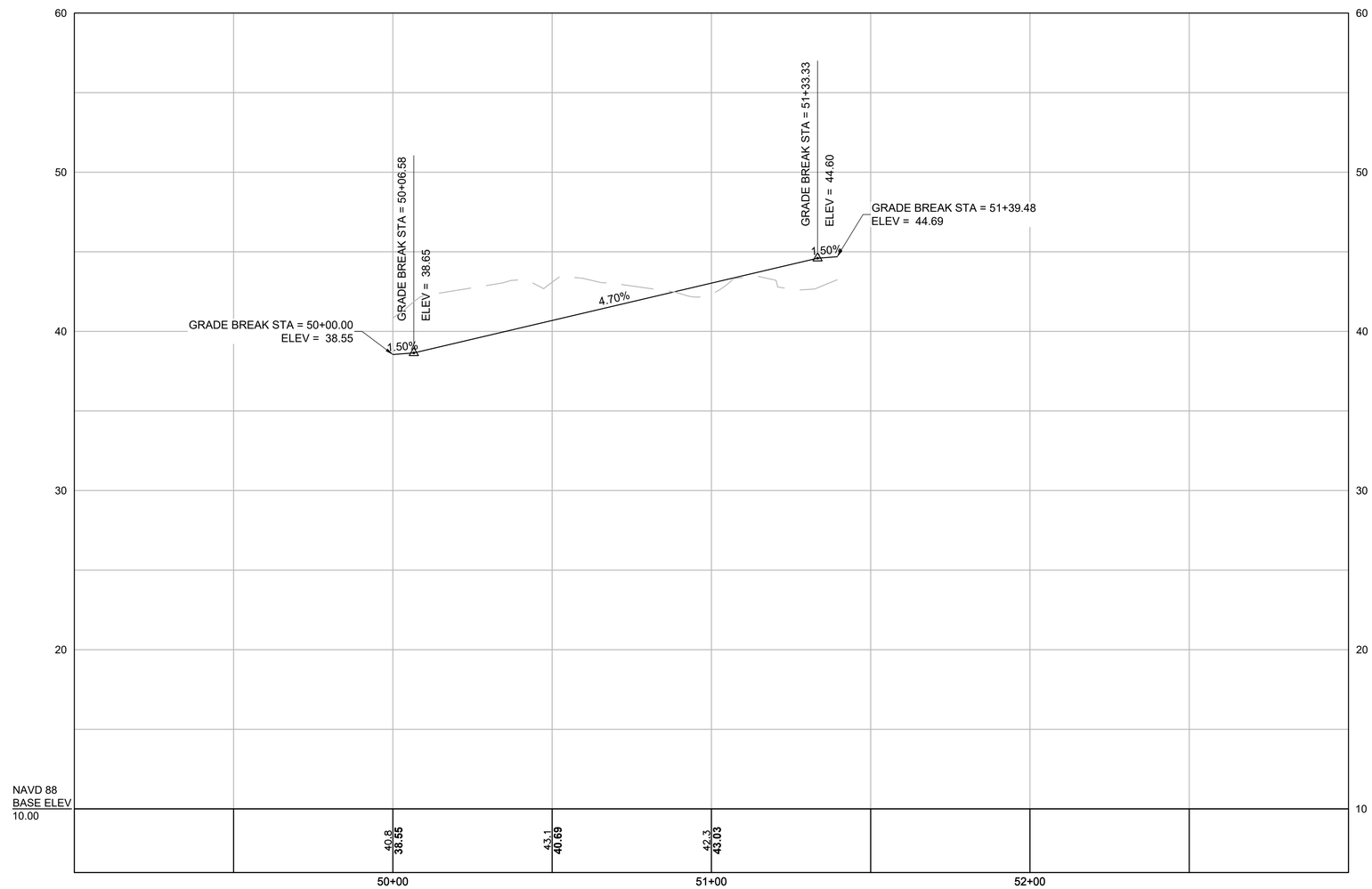
CONTINUED ON SHEET NO. 36

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	45	221
PROJECT FILE NO.	609204		

CONSTRUCTION PLAN AND PROFILE

BELMONT STATION RAMP



CONTINUED ON SHEET NO. 40

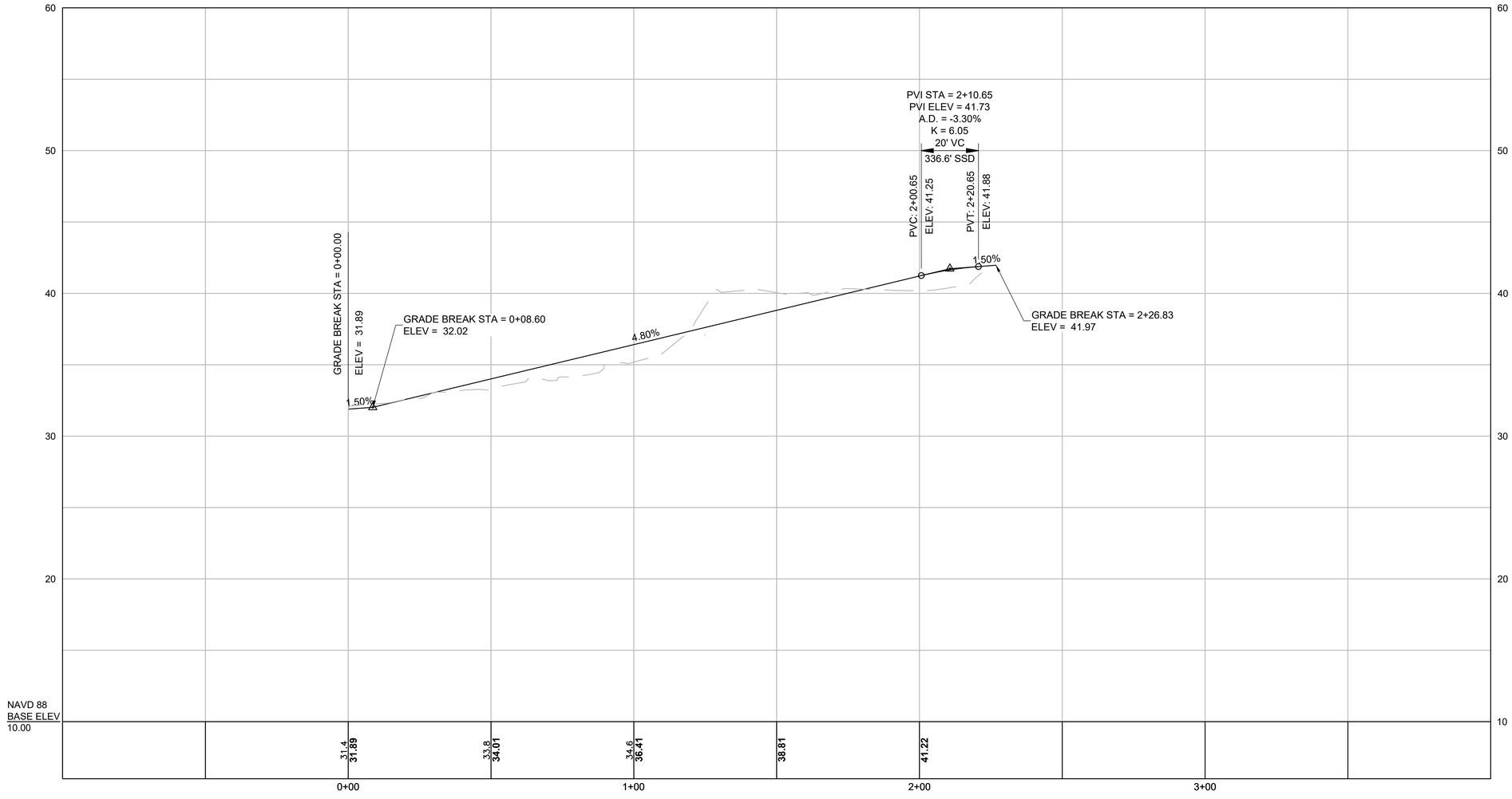
HOR. SCALE IN FEET
20 0 20 40
VER. SCALE IN FEET
4 0 4 8

SEE SHEET 37 FOR CONSTRUCTION PLAN

609204_HD (BORDER SHEET).DWG Plotted on Sep-26 9:06 AM

7 CHANNING ROAD

CONTINUED ON SHEET NO. 36



CONTINUED ON SHEET NO. 40

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

SEE SHEET 37 FOR CONSTRUCTION PLAN

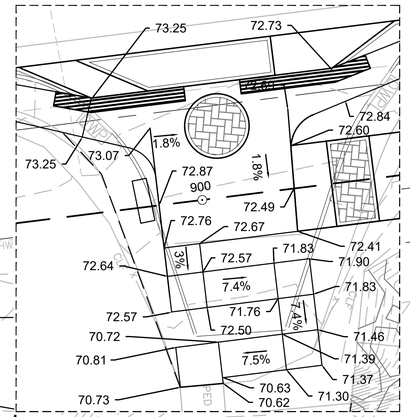
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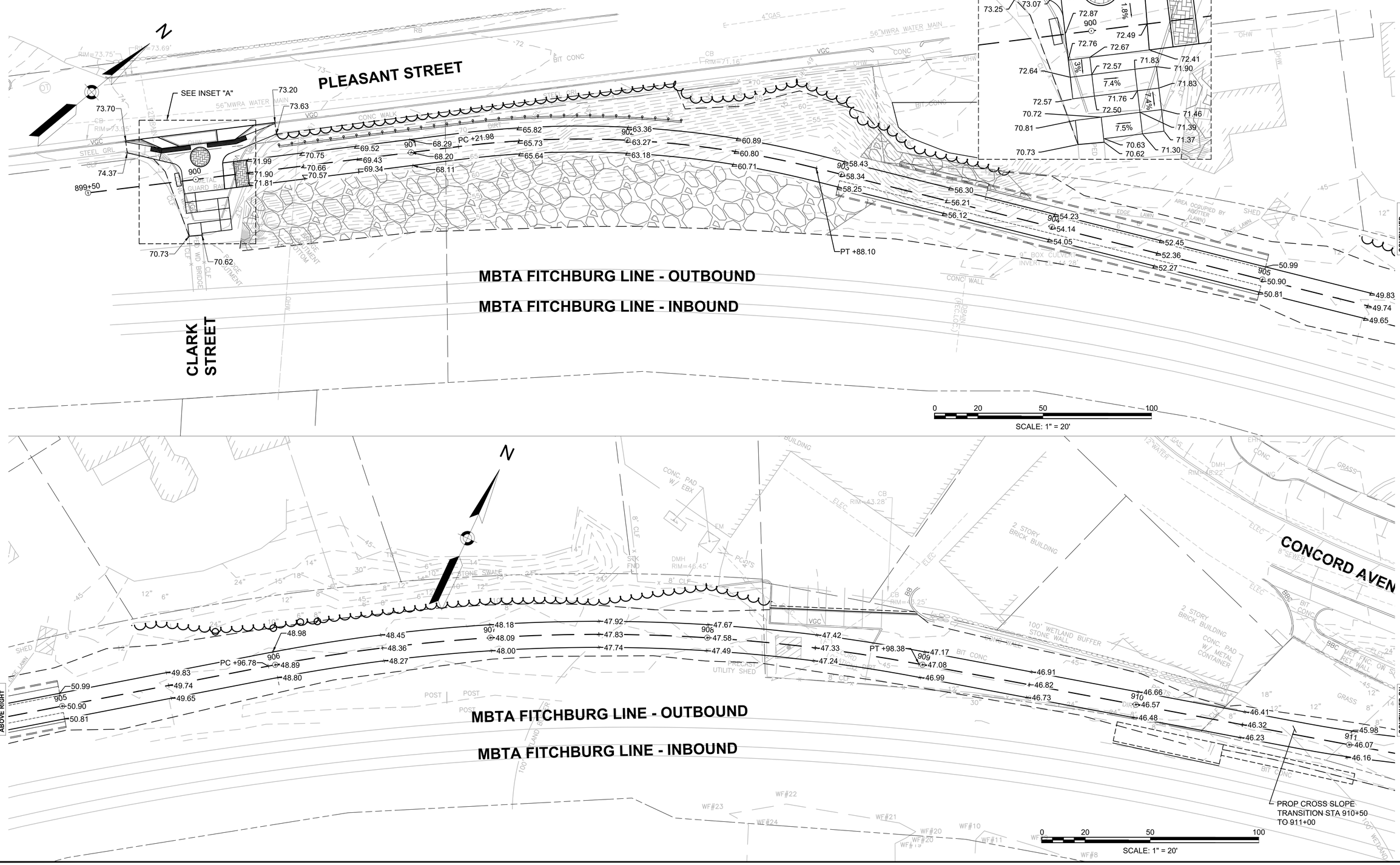
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	47	221
PROJECT FILE NO.	609204		

GRADING PLANS

INSET "A"
SCALE 1"=10'





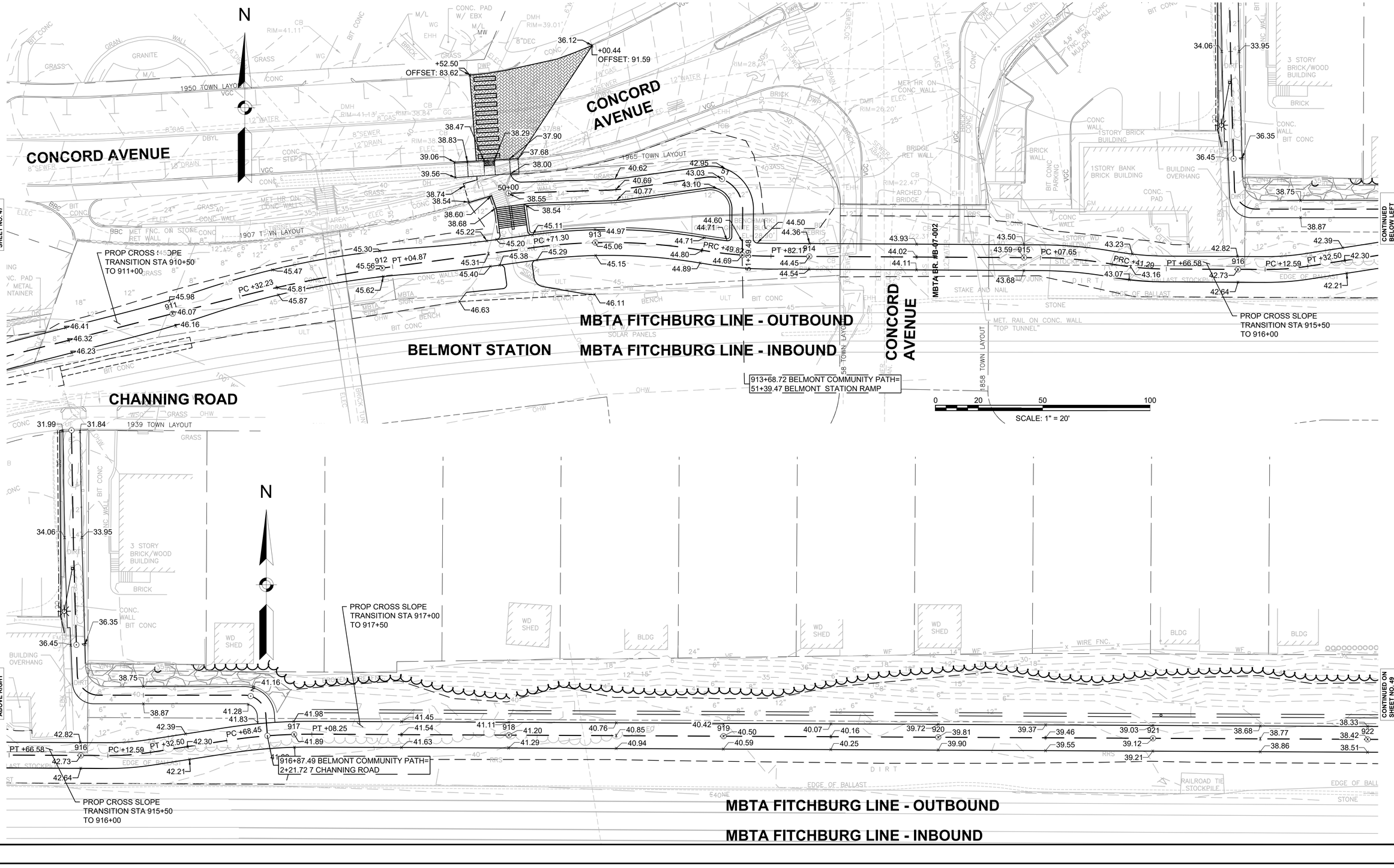
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	48	221
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	STP/CMQ/TAP-0034(035)X	49	221
PROJECT FILE NO.	609204		

GRADING PLANS

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 9/2/2026 11:38 AM

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CONTINUED ON SHEET NO. 48

CONTINUED BELOW LEFT

N

BLDG · WF · WIRE FNC · PINE · VF · CLF · 25" · 30" · 35" · 12" · 14" · 24" · 18" · 8" · 6" · 4" · 10" · 15" · 16" · 20" · 30" · 36"

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 · PC +51+17 +62.99 · 36.69 · 36.78 · 36.26 · 925 · PC +01+35 +13.77 · 36.44 · 36.35 · 35.91 · 36.00 · 36.09 · L PILE · 35.56 · 926 · 35.65 · 35.74 · 35.18 · 35.27 · 35.36 · 34.30 · 927 · 34.39 · 34.48

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

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

MBTA FITCHBURG LINE - OUTBOUND

RAILROAD BASELINE

MBTA FITCHBURG LINE - INBOUND

63' (Calc.) · 50.00' (Rec.)

0 20 50 100

SCALE: 1" = 20'

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

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 50

N

VF · WF · CLF · 14" · 24" · 12"X2 · 12"X3 · 25" · 12" · 18" · 8" · 6" · 4" · 10" · 16" · 20" · 30" · 15"

PT +62.99 · 36.26 · 925 · PC +01+35 +13.77 · 36.44 · 36.35 · 35.91 · 36.00 · 36.09 · L PILE · 35.56 · 926 · 35.65 · 35.74 · 35.18 · 35.27 · 35.36 · 34.30 · 927 · 34.39 · 34.48 · 32.80 · 32.89 · 32.98 · 928 · 31.15 · 31.24 · 31.33 · 29.49 · 29.58 · 29.67 · 27.84 · 27.93 · 28.02 · 929 · 26.27 · 26.18 · 26.36 · 24.53 · 930 · PC +04.76 · 24.62 · 24.71 · 22.87 · PT +49.97 · 22.96 · 23.05 · 21.22 · 931 · 21.31 · 21.40

PROPANE TANK · POLE · GUY WIRE · SIGNAL TOWER · TRSIG · TS · EDGE OF BALLAST · STAKE AND NAIL · STONE · GRAVEL/DIRT · EHH

MBTA FITCHBURG LINE - OUTBOUND

RAILROAD BASELINE

MBTA FITCHBURG LINE - INBOUND

Sta. 326 · Sta. 325 · Sta. 324 · Sta. 323

50.00' (Rec.) · 55.00' (Rec.)

X1.1 X1.2

0 20 50 100

SCALE: 1" = 20'

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

Storage · UNK QL-B

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	50	221
PROJECT FILE NO.	609204		

GRADING PLANS

CHANNING ROAD

ALEXANDER AVENUE

ALEXANDER AVENUE
PRIVATE

MBTA FITCHBURG LINE - OUTBOUND

MBTA FITCHBURG LINE - INBOUND

N

INSET

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

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. 49

CONTINUED ON SHEET NO. 51

CONTINUED ON INSET ABOVE

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	STP/CMQ/TAP-0034(035)X	51	221
PROJECT FILE NO.	609204		

GRADING PLANS

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 9/2/2026 11:39 AM

609204_HD(GRAD).DWG Plotted on Sep-26 11:39 AM

CONTINUED ON SHEET NO. 50

CONTINUED BELOW LEFT

N

RIM=18.41
RIM=17.98
PT +59.47
PC +72.90
PT +05.77
PT +05.64
PC +35.53
PT +55.48
PC +85.68
935 936 937 938 939 940 941 942 943 944 945 946

6"DRAIN
12"DRAIN
6"VINYL FNC.
WOODED AREA
GRAVEL
GRAVEL/DIRT.
RRS
EDGE OF BALLAST
STONE
PROPANE TANK
BOLLARDS (TYP.)
CONC. BLOCK (TYP.)
TRSIGNAL TOWER
SIGNAL TOWER
RAILROAD BASELINE
EHH
SWITCH
TVHH
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.)
6.81'
N63° 35' 07"W
S89° 43' 36"E → 237.30'
2.32'
N30° 45' 53"E
53.24' (Calc.)
55.12' (Rec.)
Chainlink Fence HT=10'
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'

N

6"DRAIN
6"PVC FNC.
3'WIRE FNC.
4'CLF
WOODED AREA
MULCH
GRAVEL
STONE
EDGE OF BALLAST
Sta. 313
Sta. 312
Sta. 311
Sta. 310
Sta. 309
Sta. 308

940 PT +05.64
941
942
943
944
945
946

MBTA FITCHBURG LINE - OUTBOUND

MBTA FITCHBURG LINE - INBOUND

EX1.3
EX1.4
45.00' (Rec.)
S89° 43' 36"E → 513.50'
100.12'
S86° 51' 51"E
100.12'
N87° 24' 40"E
Chainlink Fence HT=10'

0 20 50 100
SCALE: 1" = 20'

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 52

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	52	221
PROJECT FILE NO.	609204		

GRADING PLANS

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(GRAD).dwg 9/2/2026 11:39 AM

609204_HD(GRAD).DWG Plotted on Sep-26 11:39 AM

CONTINUED ON SHEET NO. 51

CONTINUED BELOW LEFT

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

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

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 17.83 17.74 | 17.18 17.27 17.36

PT +97.51 | PC +62.84 | 951 | 16.63 16.06 16.81 16.72 | PC +44.48 | 16.24 16.15 | RIM=15.62 | 16.06 | 16.81 | 16.72 | 16.24 | 16.15 | RIM=15.62

Sta. 308 | Sta. 307 | Sta. 306 | Sta. 305 | Sta. 304 | Sta. 303 | Sta. 302

MBTA FITCHBURG LINE - OUTBOUND

MBTA FITCHBURG LINE - INBOUND

45.00' (Rec.) | 50.00' (Rec.) | 50.00' (Rec.)

EX1.4 EX1.5

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'

S88° 17' 40"E — 200.06'

Chainlink Fence
Rt.=10°

N

6"DRAIN
6"PVC FNC
6"WD FNC
CONC WALL
6"PVC FNC ON CONC WALL
WD SHED
MET BIN
JERSEY BARRIER RETAINING WALL
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 QL-B
MAG
GRASS
EDGE OF BALLAST
STONE
RAILROAD BASELINE

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 53

PT +97.51 | PC +62.84 | 951 | 16.63 16.06 16.81 16.72 | PC +44.48 | 16.24 16.15 | RIM=15.62 | PT +79.00 | 952 | 15.50 15.68 15.59 | 953 | 14.37 14.94 15.03 15.12 | 954 | 13.64 13.72 13.82 13.91 13.99 | RIM=13.64 | 14.07 13.98 | 955 | 14.40 14.48 | 14.95 | 15.21 | 956 | 15.12 15.04 | 15.40 | 15.31 | 15.07 15.16 | 957 | 15.23

IP(F) Sta. 301+63.9 (Rec.) 301+63.75 (Calc.)

RIM=15.90 | RIM=13.77 | RIM=15.30 | 15.25

Sta. 302 | Sta. 301 | Sta. 300 | Sta. 299

MBTA FITCHBURG LINE - OUTBOUND

MBTA FITCHBURG LINE - INBOUND

EX1.4 EX1.5

50.00' (Rec.) | 55.04' (Rec.)

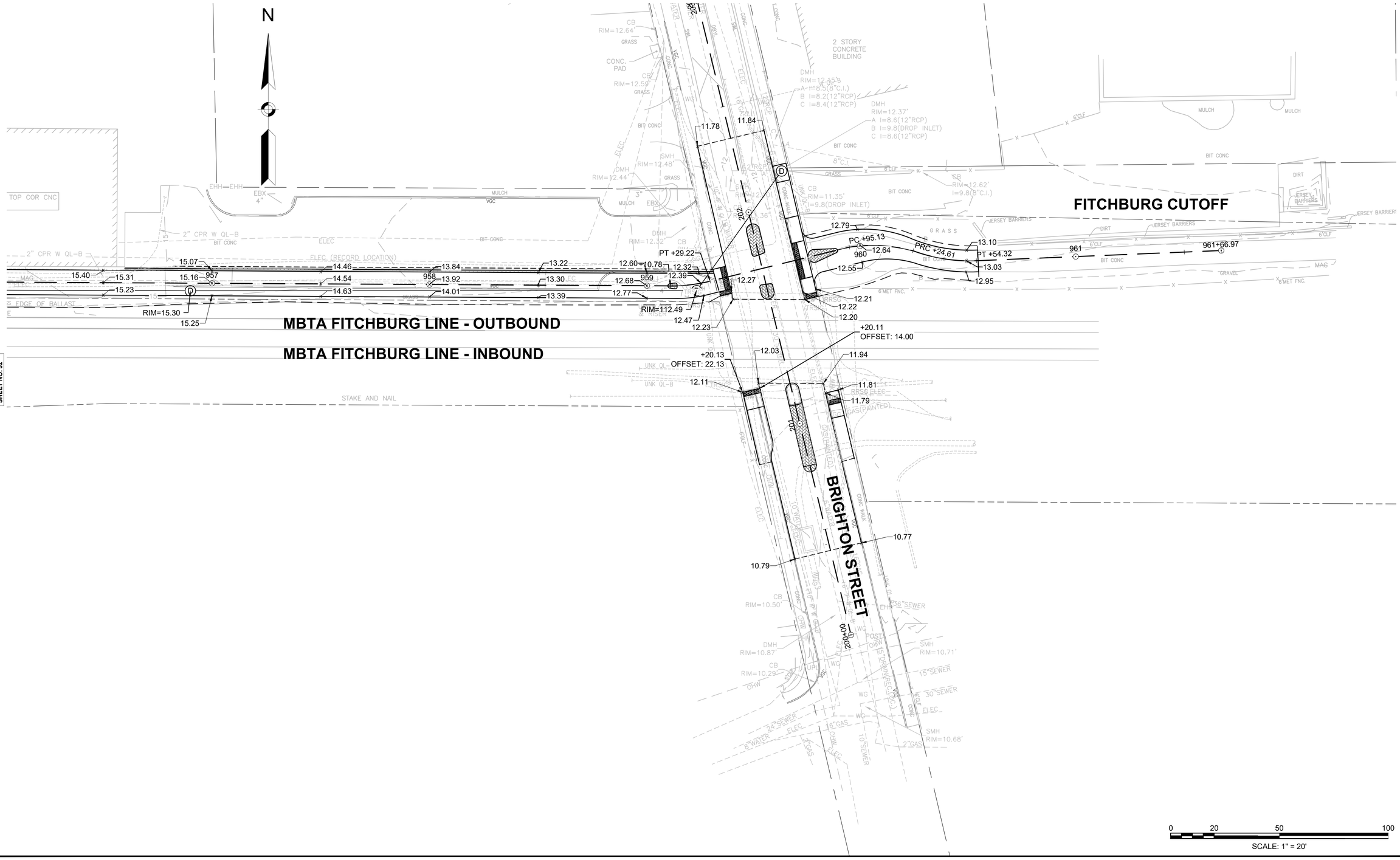
N/F
MASSACHUSETTS BAY TRANS AUTHORITY
ASSESS. MAP 36 – PARCEL ID: 36-1
DEED BK 13117 / PAGE 0113

0 20 50 100
SCALE: 1" = 20'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	53	221
PROJECT FILE NO.	609204		

GRADING PLANS

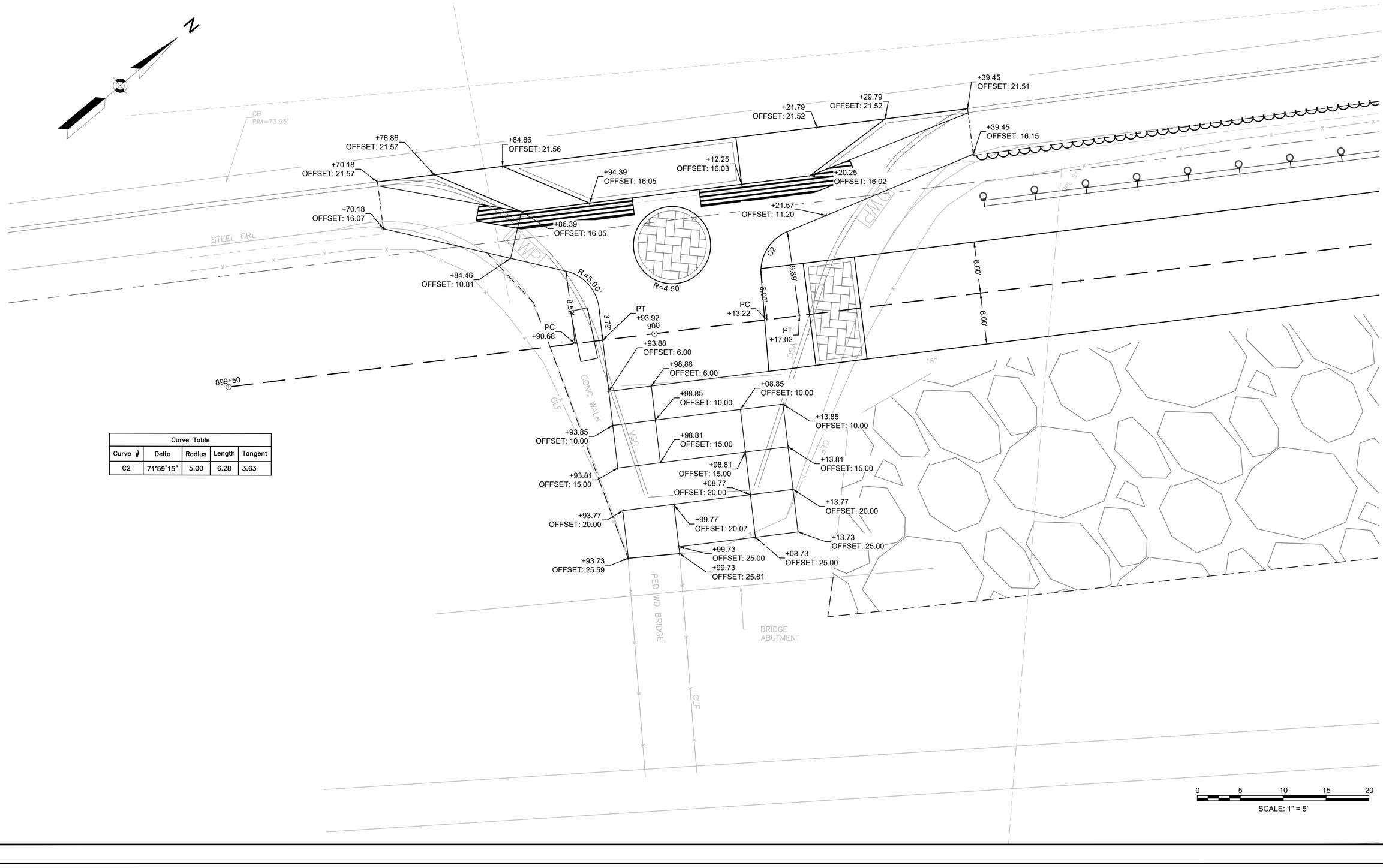


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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	54	221
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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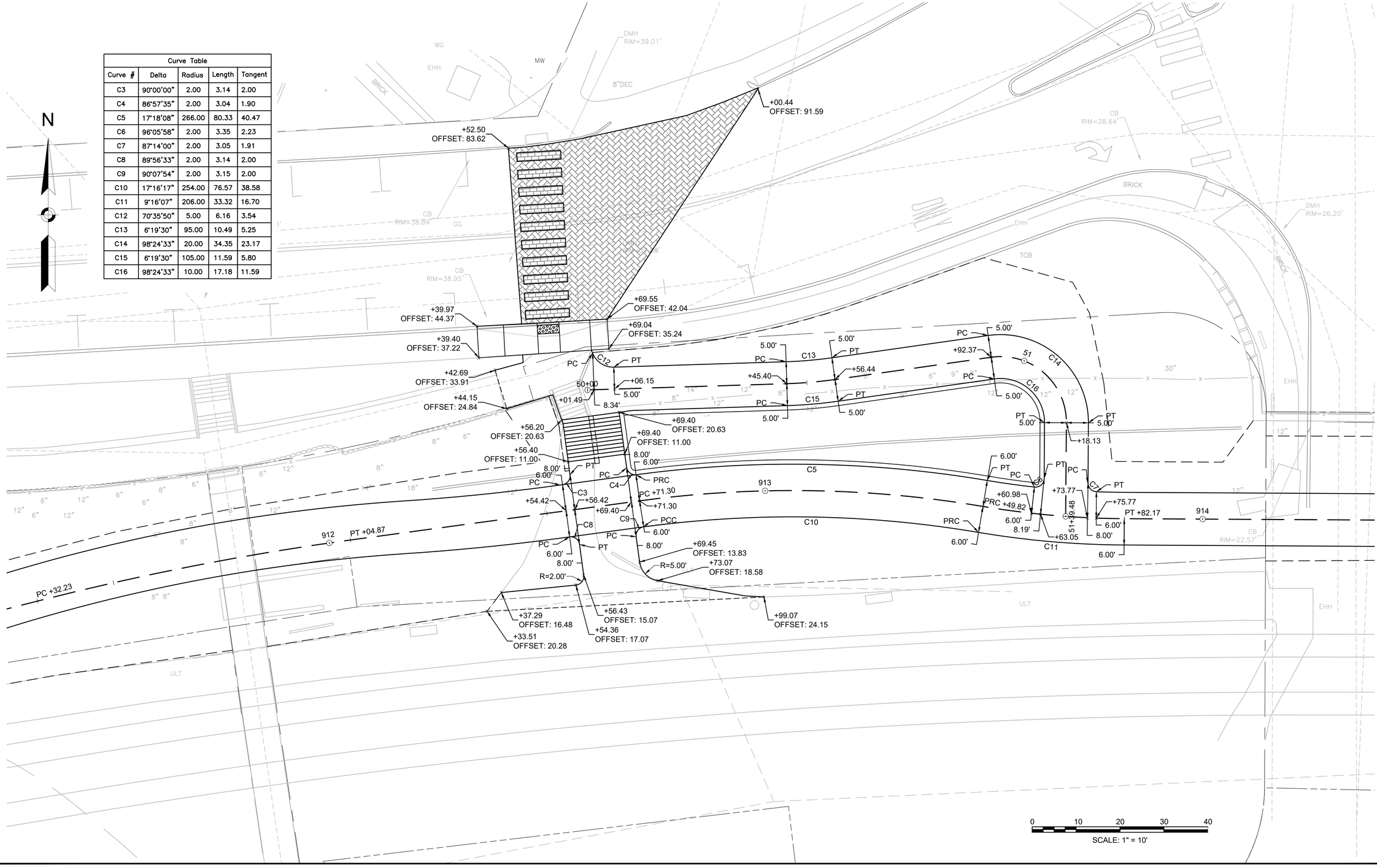
609204_HD(GRAD).DWG Plotted on Sep-26 11:39 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	55	221
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	STP/CMQ/TAP-0034(035)X	56	221
	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 8 16 24 32
SCALE: 1" = 8'

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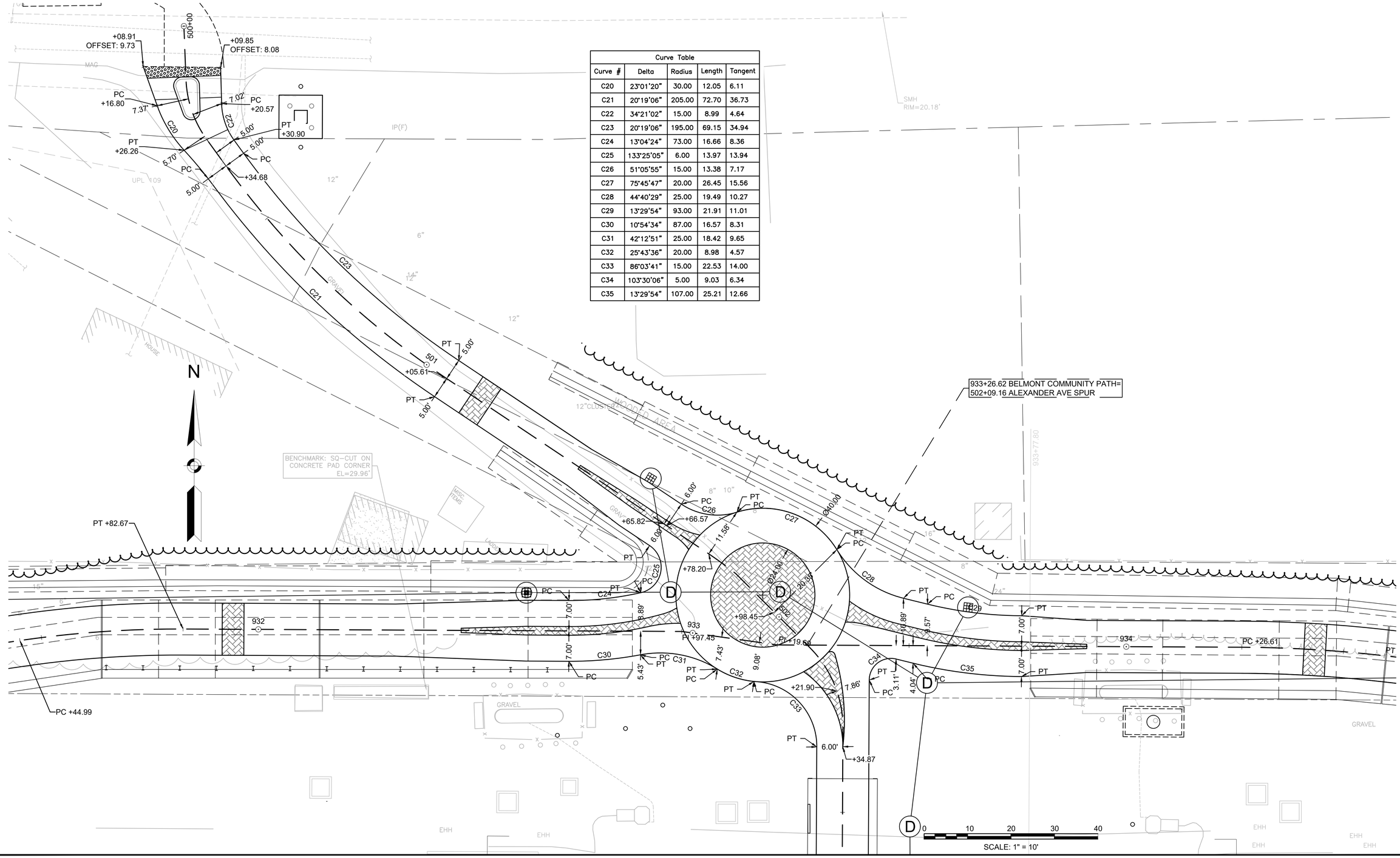
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	57	221
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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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	58	221
PROJECT FILE NO.	609204		

CURB TIE PLANS

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

N

0 10 20 30 40
SCALE: 1" = 10'

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609204_HD(GRAD).DWG Plotted on Sep-26 11:40 AM

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:

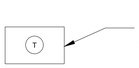
"SIZE/# " - "MATERIAL TYPE" - "UTILITY TYPE" - "UTILITY OWNER" - "ASCE/CI 38-22 QUALITY LEVEL"

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

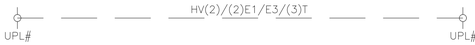
(X)HV(Y) - HIGH VOLTAGE SYSTEM TYPICALLY FOR TRANSMISSION AND CONNECTED TO DISTRIBUTION SYSTEMS AT SUBSTATIONS WHERE (Y) REPRESENTS NUMBER OF CIRCUITS, SINGLE (1), DOUBLE (2), TRIPLE (3).

(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

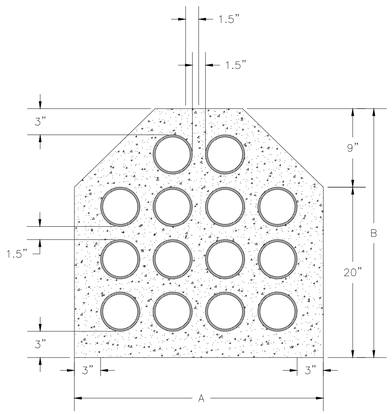
POLE ATTACHMENTS LEGEND
(X)UTA E –ELECTRIC UNDERGROUND TO AERIAL
(X)UTA T –TELECOMMUNICATIONS UNDERGROUND TO AERIAL
(X)T –TRANSFORMER
(X)LT –LIGHT
(X)GW –GUY WIRE
(X)EM –ELECTRIC METER
(X)W –ELECTRIC SWITCH
(X)OHS –OVERHEAD SIGN
(X)TS –TRAFFIC SIGNAL
(X)EQB –EQUIPMENT BOX

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



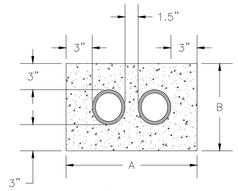
14 - 4" DUCTS

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



1x2 - 4" DUCTS

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
STGV STEAM 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

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	59	221
	PROJECT FILE NO. 609204		

UTILITY ENGINEERING LEGEND SHEET

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

JAMES FITZPATRICK NOONE
COMMONWEALTH OF MASSACHUSETTS
CIVIL
No. 37911
REGISTERED PROFESSIONAL ENGINEER
1/30/26

PREPARED BY: OVERLAND ENGINEERING

MassDOT Massachusetts Department of Transportation Highway Division

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: ####

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
100% SUBMITTAL
609204

DATE: 1/30/26 SHEET 2 OF 15

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:06 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	60	221
PROJECT FILE NO.	609204		

UTILITY ENGINEERING NOTES SHEET

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 38-22):

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 LIGHTING 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.

1. THE SURVEY CONTROL SHOWN ON THIS BASEMAP ARE THE RESULT OF AN ON THE GROUND INSTRUMENT SURVEY PERFORMED BETWEEN XXXXX X, XXXX AND XXXXX X, XXXX BY XXXXXXXXX
2. HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED ON XXXXX X, XXXXX BY MASSDOT AT THE FOLLOWING POINTS:

   XXXX - PP IN IR SET BY MASSDOT

   STATIC ADJUSTMENTS WERE MADE BY MASSDOT USING MASSACHUSETTS MAINLAND STATE PLANE COORDINATES (US SURVEY FOOT) AND NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 12B). THE UNITS OF MEASURE IS U.S. SURVEY FOOT, AND THE AVERAGE COMBINED SCALE FACTOR USED FOR THE ADJUSTMENT WAS 0.9999684570011934. THE RESULTS WERE RECEIVED BY XXXXXXX .ON XXXX X, XXXX.
3. CONTROL POINTS USED TO SURVEY SUE PROVIDED BY NITSCH.

POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
4	2969716.44	745833.38	18.8'	MMAG
55	2969513.46	748581.35	12.3'	MMAG
56	2969569.75	743597.82	40.0'	MDHL
59	2969550.56	743549.52	33.7'	MDHL
84	2969731.25	743959.27	31.0'	MMAG
101	2969516.21	748345.29	12.4'	MMAG
102	2969684.11	745535.3	21.4'	MMAG
105	2969726.6	743828.21	32.1'	MDHL
136	2969507.43	747986.23	15.0'	MMAG

COMMONWEALTH OF MASSACHUSETTS
JAMES FITZPATRICK NOONE
CIVIL
No. 37911
REGISTERED PROFESSIONAL ENGINEER
1/30/26

massDOT Massachusetts Department of Transportation Highway Division

PREPARED BY: OVERLAND ENGINEERING

REVISIONS		
REV.	COMMENTS	DATE

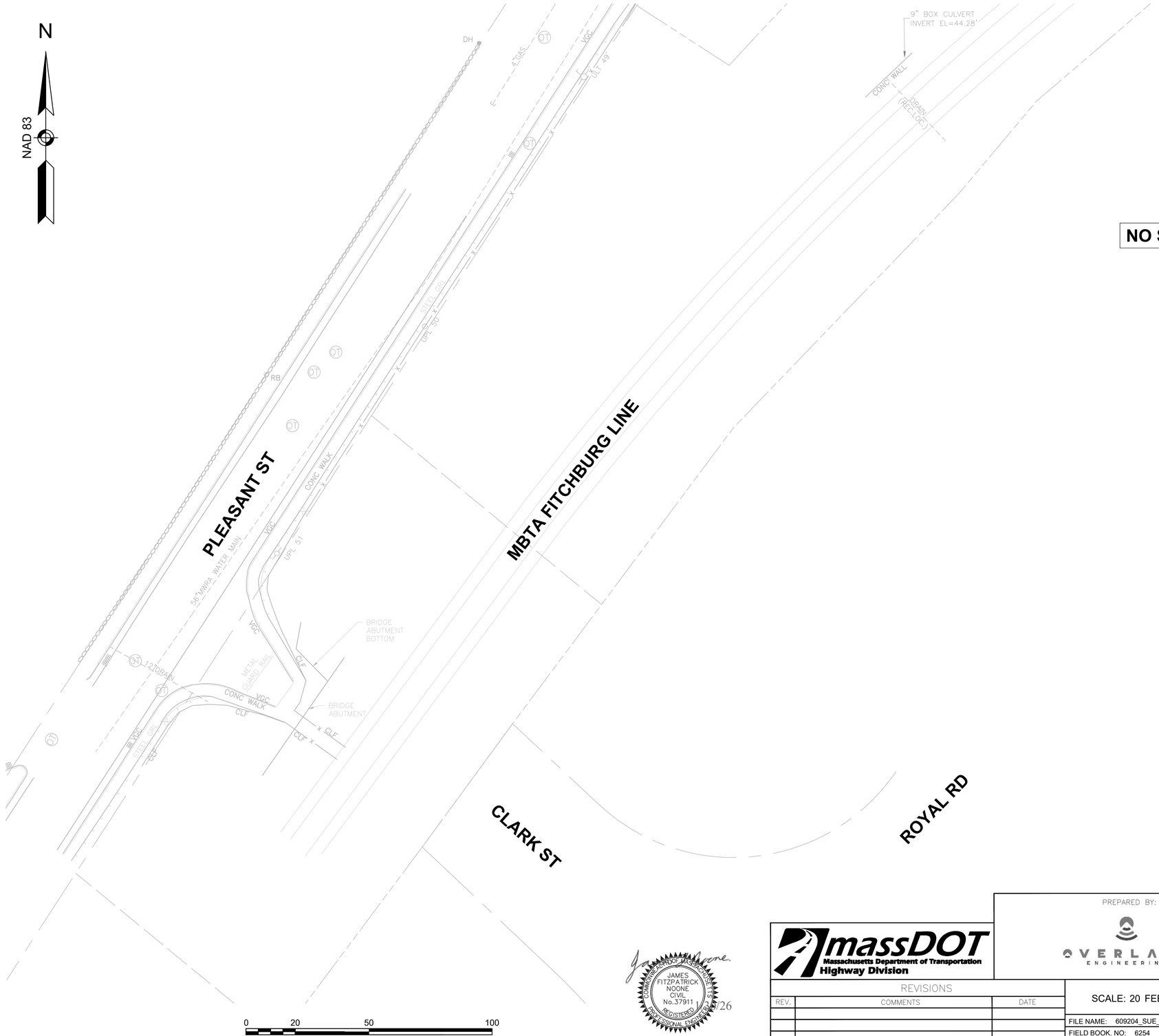
SCALE: NA FEET TO THE INCH

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

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
100% SUBMITTAL
609204

DATE: 1/30/26 SHEET 3 OF 15

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:06 PM



NO SUE THIS SHEET

SEE UE SHEET 5 OF 15 FOR CONTINUATION

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	61	221
	PROJECT FILE NO. 609204		

UTILITY ENGINEERING PLAN SHEET

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:07 PM

JAMES FITZPATRICK NOONE
CIVIL
No.37911
REGISTERED PROFESSIONAL ENGINEER
1/30/26

massDOT Massachusetts Department of Transportation Highway Division

PREPARED BY: OVERLAND ENGINEERING

REVISIONS		
REV.	COMMENTS	DATE

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MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
100% SUBMITTAL
609204

DATE: 1/30/26 SHEET 4 OF 15

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	62	221
PROJECT FILE NO.	609204		

UTILITY ENGINEERING PLAN SHEET

SEE UE SHEET 4 OF 15 FOR CONTINUATION

SEE UE SHEET 6 OF 15 FOR CONTINUATION

N

NAD 83

NO SUE THIS SHEET

PLEASANT ST

MBTA FITCHBURG LINE

4"PVC INV=44.9

4"PVC INV=44.6

CONC. PAD W/ EBX

FM

3 STO BRICK

STK FND

STONE SWALE

VGC

CLF

PRECAST UTILITY SHED

BB

AREA OCCUPIED BY ABUTTER (LAWN)

EDGE LAWN

SHED

LPD W/ CUE

8"SEWER

4"GAS

6"MWPA WATER MAIN

CONC

DH

ULT 49

9" BOX CULVERT INVERT EL=44.28'

CONC WALL

DRAIN (REC-LOC)

0 20 50 100

SCALE: 1" = 20'

JAMES FITZPATRICK NOONE CIVIL No.37911 REGISTERED PROFESSIONAL ENGINEER 1/30/26

COMMONWEALTH OF MASSACHUSETTS

massDOT Massachusetts Department of Transportation Highway Division

PREPARED BY: OVERLAND ENGINEERING

REVISIONS		
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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
100% SUBMITTAL
609204

DATE: 1/30/26 | SHEET 5 OF 15

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:07 PM

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	63	221
PROJECT FILE NO.	609204		

UTILITY ENGINEERING PLAN SHEET

SEE UE SHEET 5 OF 15 FOR CONTINUATION

SEE UE SHEET 7 OF 15 FOR CONTINUATION

N

NAD 83

CONCORD AVE

MBTA FITCHBURG LINE

COMMON ST

BENCHMARK:
CORNER GRANITE BLOCK
EL=28.90'

0 20 50 100

SCALE: 1" = 20'

I HEREBY CERTIFY THAT I HAVE PREPARED THIS PLAN IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE BOARD OF REGISTRATION OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS.
JAMES FITZPATRICK NOONE
CIVIL
No. 37911
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
1/30/26

massDOT
Massachusetts Department of Transportation
Highway Division

PREPARED BY:
OVERLAND ENGINEERING

REVISIONS		
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MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
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609204

DATE: 1/30/26 SHEET 6 OF 15

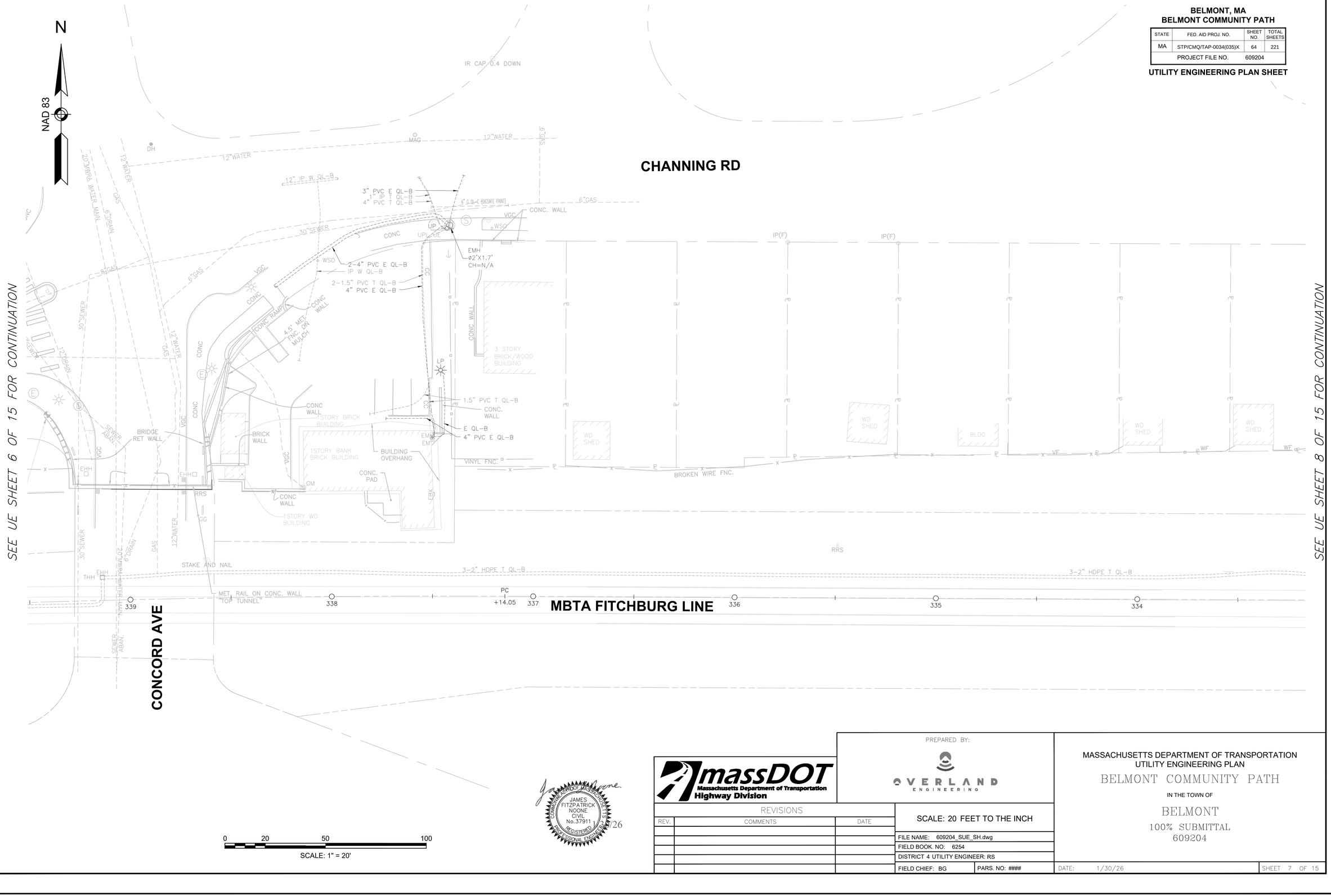
609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:07 PM

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
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UTILITY ENGINEERING PLAN SHEET

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JAMES FITZPATRICK NOONE CIVIL No.37911 REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
1/30/26

MassDOT Massachusetts Department of Transportation Highway Division

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BELMONT COMMUNITY PATH
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DATE: 1/30/26 SHEET 7 OF 15

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	65	221
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UTILITY ENGINEERING PLAN SHEET

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:08 PM

N

NAD 83

IP ANGLE" IRON

FARM RD

CHANNING RD

SEE UE SHEET 7 OF 15 FOR CONTINUATION

SEE UE SHEET 9 OF 15 FOR CONTINUATION

IP(F)

IR(F)

IR(F)

WIRE FNC.

BLDG

WF

CLF

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

333 332 331 330 329 328

4-4" PVC E QL-B

MBTA FITCHBURG LINE

UP

0 20 50 100

SCALE: 1" = 20'

JAMES FITZPATRICK NOONE
CIVIL
No.37911
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
1/30/26

massDOT
Massachusetts Department of Transportation
Highway Division

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MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
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DATE: 1/30/26 SHEET 8 OF 15

BELMONT, MA
BELMONT COMMUNITY PATH

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UTILITY ENGINEERING PLAN SHEET

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:08 PM

N

NAD 83

⚠SIZE UNKNOWN, NO RECORD AVAILABLE

ALEXANDER AVE

CHANNING RD

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

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

7'VINYL FNC.

SEE UE SHEET 8 OF 15 FOR CONTINUATION

SEE UE SHEET 10 OF 15 FOR CONTINUATION

CLF WF CLF CLF CLF WF CLF CLF WF

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' TP-1 2-4" PVC E QL-B 3-2" HDPE T QL-B TP-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' 2-4" PVC E QL-B 2-4" HDPE T QL-B 6-4" PVC SIGNAL QL-B EMH MBTA 4'X4'X5' CH=1.0' CONC PAD EDX ON CONC PAD

2-4" PVC E QL-B STAKE AND NAIL 3-2" HDPE T QL-B

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 1" PVC SIGNAL QL-B EHH EHH ECBX EHH 6-4" PVC SIGNAL QL-B 9-4" PVC SIGNAL QL-B EHH

327 **MBTA FITCHBURG LINE** 326 2" DB SIGNAL QL-B 1.25" PVC SIGNAL QL-B 2-2" PVC SIGNAL QL-B ECBX 9-4" PVC SIGNAL QL-B 324 2-2" PVC SIGNAL QL-B 1" PVC SIGNAL QL-B 323 2" PVC SIGNAL QL-B 1" PVC SIGNAL QL-B 322 32

2" PVC E QL-B EHH EHH EHH EHH ECBX EHH EHH

TRSIG MBTA SIGNAL CONTROL HOUSE UP UP UNK QL-B UP UNK QL-B

0 20 50 100

SCALE: 1" = 20'

JAMES FITZPATRICK NOONE CIVIL No.37911 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS 1/30/26

massDOT Massachusetts Department of Transportation Highway Division

PREPARED BY: OVERLAND ENGINEERING

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MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN

BELMONT COMMUNITY PATH

IN THE TOWN OF

BELMONT

100% SUBMITTAL

609204

DATE: 1/30/26 SHEET 9 OF 15

BELMONT, MA
BELMONT COMMUNITY PATH

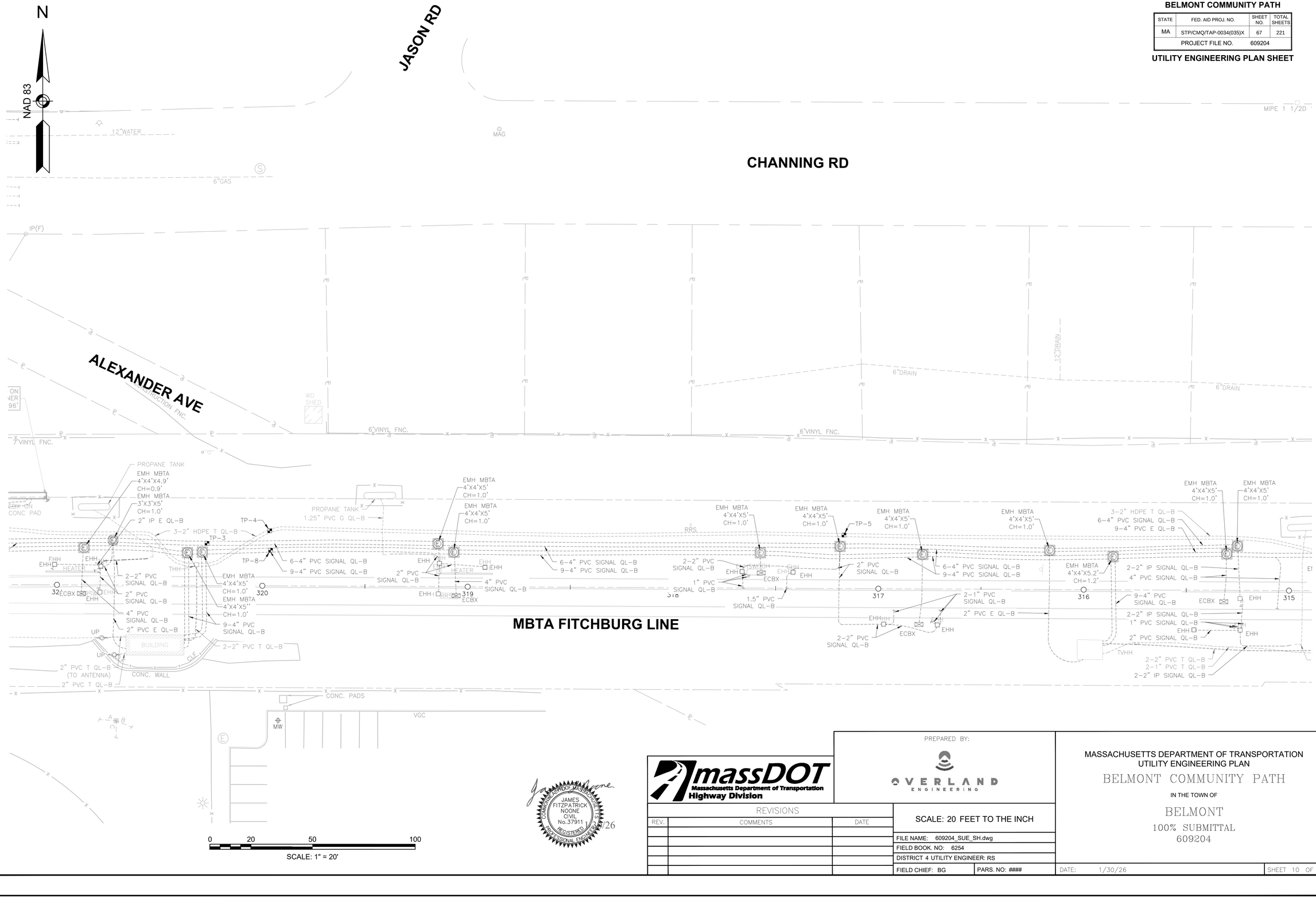
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	67	221
PROJECT FILE NO.	609204		

UTILITY ENGINEERING PLAN SHEET

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:08 PM

SEE UE SHEET 9 OF 15 FOR CONTINUATION

SEE UE SHEET 11 OF 15 FOR CONTINUATION



massDOT Massachusetts Department of Transportation Highway Division

PREPARED BY: OVERLAND ENGINEERING

JAMES FITZPATRICK NOONE CIVIL No.37911 REGISTERED PROFESSIONAL ENGINEER 1/30/26

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MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN

BELMONT COMMUNITY PATH

IN THE TOWN OF

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609204

DATE: 1/30/26 SHEET 10 OF 15

BELMONT, MA
BELMONT COMMUNITY PATH

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UTILITY ENGINEERING PLAN SHEET

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:08 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 15 FOR CONTINUATION

SEE UE SHEET 12 OF 15 FOR CONTINUATION

CBND(F)

IP(F)

6"DRAIN

TYP.6"

6"PVC FNC.

4"CLF

6"PVC FN

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

315

314

313

312

311

310

309

MBTA FITCHBURG LINE

6" PVC T QL-B

3-2" HDPE T QL-B

2-1" PVC T QL-B

THHH

TRSIG

1.25" PVC G QL-B

0 20 50 100

SCALE: 1" = 20'

JAMES FITZPATRICK NOONE CIVIL No.37911 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

1/30/26

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
100% SUBMITTAL
609204

DATE: 1/30/26 SHEET 11 OF 15

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	69	221
PROJECT FILE NO.	609204		

UTILITY ENGINEERING PLAN SHEET

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:09 PM

N

NAD 83

NO SUE THIS SHEET

WATERHOUSE RD

CHANNING RD

SEE UE SHEET 11 OF 15 FOR CONTINUATION

SEE UE SHEET 13 OF 15 FOR CONTINUATION

DH

IR(F)

6"DRAIN

6'PVC FNC

3'WIRE FNC

6'WD FNC

6'WD FNC

6'PVC FNC

6'PVC FNC.

4'CLF

IP(F)

309 308 307 306 305 304 303

MBTA FITCHBURG LINE

0 20 50 100

SCALE: 1" = 20'

JAMES FITZPATRICK NOONE CIVIL No.37911 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS 1/30/26

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

100% SUBMITTAL

609204

DATE: 1/30/26 SHEET 12 OF 15

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	70	221
PROJECT FILE NO.	609204		

UTILITY ENGINEERING PLAN SHEET

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:09 PM

SEE UE SHEET 12 OF 15 FOR CONTINUATION

SEE UE SHEET 14 OF 15 FOR CONTINUATION



0 20 50 100

SCALE: 1" = 20'

JAMES FITZPATRICK NOONE CIVIL No.37911 REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
1/30/26

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

100% SUBMITTAL
609204

DATE: 1/30/26 SHEET 13 OF 15

BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	71	221
PROJECT FILE NO.	609204		

UTILITY ENGINEERING PLAN SHEET

SEE UE SHEET 13 OF 15 FOR CONTINUATION

N

NAD 83

BRIGHTON ST

EMH(BURIED)
FULL OF WATER

CONC. PAD

2 STORY CONCRETE BUILDING

TP-6A
TP-6

TP-7

2" CPR W QL-B

UNK G QL-B

2" PVC G QL-B

UNK E QL-B

UP

1" E QL-B

W/LGT RISER

TRSIG

296 295 294 293 292 291

MBTA FITCHBURG LINE

UNK QL-B

3-2" HDPE T QL-B

2-1" PVC T QL-B

STAKE AND NAIL

SIGNAL QL-B

3-2" HDPE T QL-B

ECBX

2-1" PVC T QL-B
SIGNAL QL-B

2" PVC T QL-B
2" PVC E QL-B

12-5" PVC E QL-B

E QL-B

TRANS

EMH
10'X5'X8.6"
CH=2.0'

12-5" PVC E QL-B

BRIGHTON ST

8"WATER 24"SEWER 16"GAS 30"SEWER 15"SEWER 36"SEWER

0 20 50 100

SCALE: 1" = 20'

JAMES FITZPATRICK NOONE
CIVIL
No.37911
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
1/30/26

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
100% SUBMITTAL
609204

DATE: 1/30/26 SHEET 14 OF 15

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:09 PM

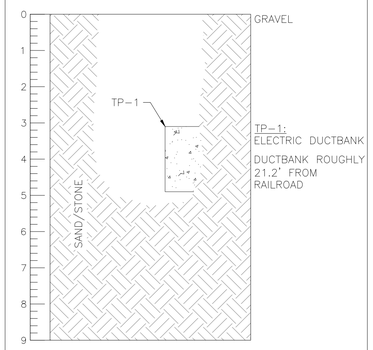
BELMONT, MA
BELMONT COMMUNITY PATH

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	72	221
PROJECT FILE NO.	609204		

TEST PIT LOGS

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-1

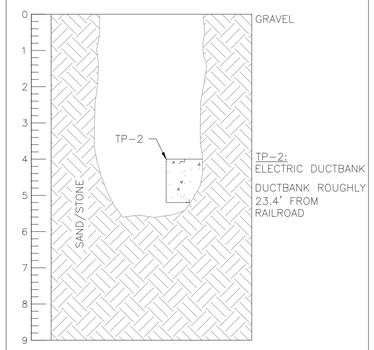
NORTHING:	2969521.65'
EASTING:	745249.37'
GROUND EL.	32.3'
MEASURE DOWN TOP:	3.1'
MEASURE DOWN BTM:	4.9'
UTILITY EL. TOP:	29.2'
UTILITY EL. BTM:	27.4'



(NTS) SECTION FACING "EAST"

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-2

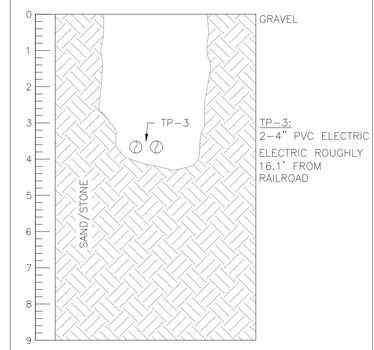
NORTHING:	2969523.10'
EASTING:	745398.92'
GROUND EL.	31.3'
MEASURE DOWN TOP:	4.0'
MEASURE DOWN BTM:	5.2'
UTILITY EL. TOP:	27.3'
UTILITY EL. BTM:	26.1'



(NTS) SECTION FACING "EAST"

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-3

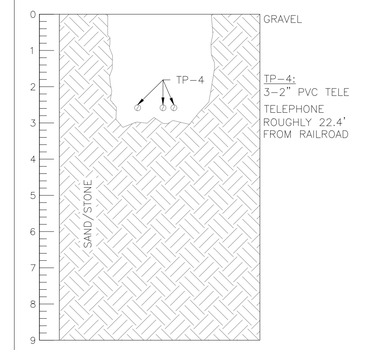
NORTHING:	2969514.59'
EASTING:	745691.01'
GROUND EL.	29.2'
MEASURE DOWN TOP:	3.5'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	25.7'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING "EAST"

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-4

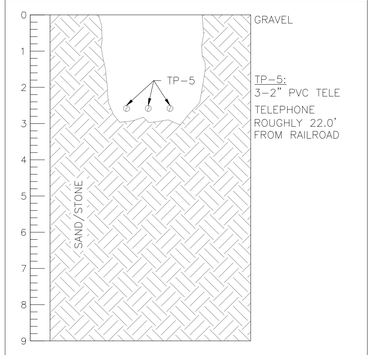
NORTHING:	2969520.65'
EASTING:	745721.59'
GROUND EL.	28.8'
MEASURE DOWN TOP:	2.5'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	26.3'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING "EAST"

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-5

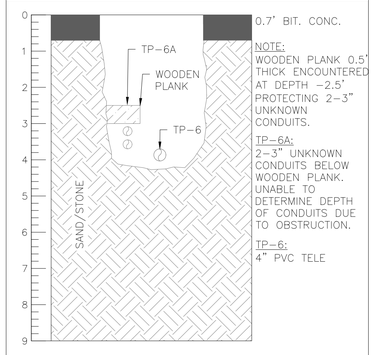
NORTHING:	2969518.61'
EASTING:	746001.19'
GROUND EL.	27.6'
MEASURE DOWN TOP:	2.5'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	25.1'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING "EAST"

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-6 TP-6A

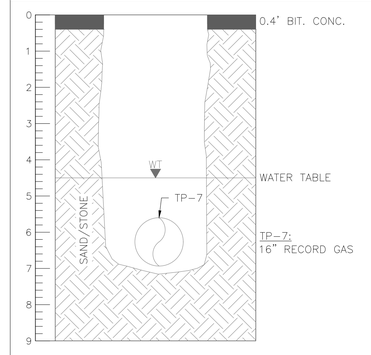
NORTHING:	2969547.53'	2969547.43'
EASTING:	748303.89'	748303.35'
GROUND EL.	11.9'	11.9'
MEASURE DOWN TOP:	3.7'	2.5'
MEASURE DOWN BTM:	N/A	N/A
UTILITY EL. TOP:	8.2'	9.4'
UTILITY EL. BTM:	N/A	N/A



(NTS) SECTION FACING "NORTH"

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-7

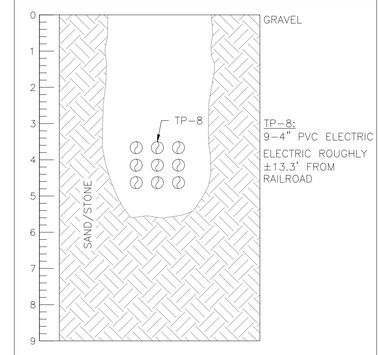
NORTHING:	2969541.85'
EASTING:	748331.31'
GROUND EL.	12.0'
MEASURE DOWN TOP:	±5.6'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	±6.4'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING "NORTH"

QUALITY LEVEL A
VACUUM EXCAVATION TEST PIT LOG
TP-8

NORTHING:	2969511.22'
EASTING:	745721.97'
GROUND EL.	29.2'
MEASURE DOWN TOP:	3.5'
MEASURE DOWN BTM:	N/A
UTILITY EL. TOP:	25.7'
UTILITY EL. BTM:	N/A



(NTS) SECTION FACING "EAST"

JAMES FITZPATRICK NOONE
CIVIL
No.37911
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
1/30/26

PREPARED BY:
OVERLAND ENGINEERING

MassDOT
Massachusetts Department of Transportation
Highway Division

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: 1/30/26 SHEET 15 OF 15

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
UTILITY ENGINEERING PLAN
BELMONT COMMUNITY PATH
IN THE TOWN OF
BELMONT
100% SUBMITTAL
609204

609204_SUE_SH.DWG Plotted on 2-Feb-2026 3:09 PM

NOTES:
UTILITY POLES TO BE SUPPORTED DURING EXCAVATION. IF POLE IS REQUIRED TO BE SUPPORTTED BY BELMONT LIGHT, IT SHALL BE INCIDENTAL TO WALL CONSTRUCTION

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	73	221
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

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

56"MWRA WATER MAIN

BELMONT COMMUNITY PATH CONST

899+50

PROJECT BEGIN
STA 900+00
N2968925.2025
E742583.2066

APPROX LIMIT OF GRADING

BOS

PROP PERM EASEMENT

PROP TEMP EASEMENT

MBTA FITCHBURG LINE

PROP TEMP EASEMENT

PROP PERM EASEMENT

CLARK STREET

MBTA LAYOUT

CONTINUED BELOW LEFT

0 20 50 100
SCALE: 1" = 20'

#710

#692

#460

#450

RET EXIST STONE SWALE

APPROX LIMIT OF GRADING

APPROX LIMIT OF GRADING (TYP)

ABANDON EMH

PROP TEMP EASEMENT

BELMONT COMMUNITY PATH CONST

R&D SHED (PREVIOUSLY REMOVED)

APPROX LIMIT OF GRADING (TYP)

RET CONC PAD & CONTAINER

RET EMH

CONCORD AVENUE

MBTA FITCHBURG LINE

PROP TEMP EASEMENT

PROP PERM EASEMENT

MBTA LAYOUT

LIMIT OF BVW

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 74

0 20 50 100
SCALE: 1" = 20'

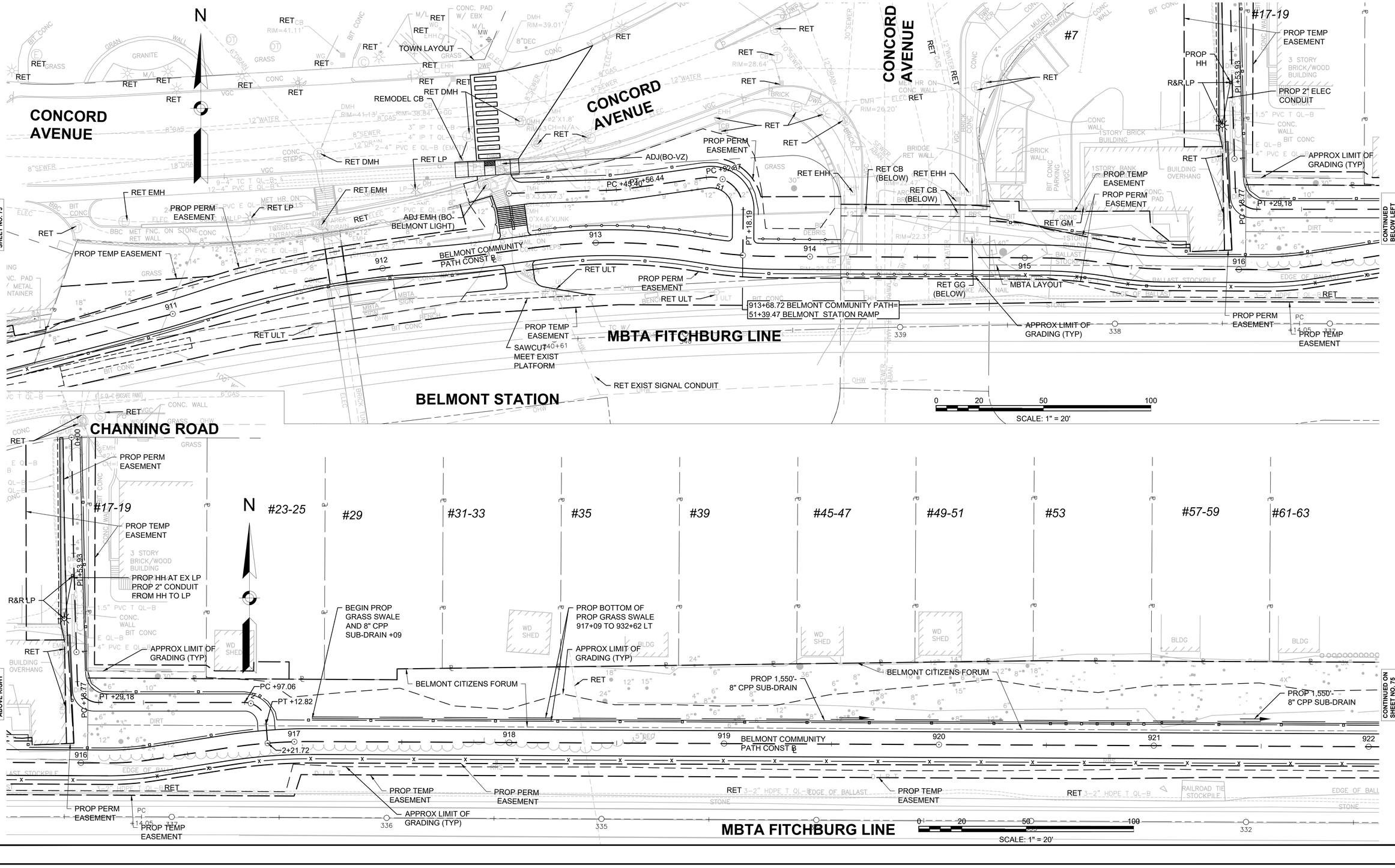
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609204_HD (BORDER SHEET).DWG Plotted on Sep-26 9:22 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	74	221
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS



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609204_HD (BORDER SHEET).DWG Plotted on Sep-26 9:22 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	75	221
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

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

BLDG BLDG BLDG BLDG PINE

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

BELMONT CITIZENS FORUM

APPROX LIMIT OF GRADING (TYP)

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

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

PROP CLEANOUT EVERY 500' (TYP)

APPROX LIMIT OF GRADING (TYP)

CONTINUED ON SHEET NO. 74

CONTINUED BELOW LEFT

922 923 924 925 926 927

BELMONT COMMUNITY PATH CONST

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

RET EMH RET RET RET

PROP PERM EASEMENT PROP TEMP EASEMENT PROP TEMP EASEMENT PROP PERM EASEMENT

APPROX LIMIT OF GRADING (TYP) APPROX LIMIT OF GRADING (TYP)

332 331 330 329 328 327 326

MBTA FITCHBURG LINE

APPROXIMATE LOCATION OF EXIST MBTA SIGNAL LINE

RET EXIST SIGNAL CONDUIT

0 20 50 100

SCALE: 1" = 20'

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

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

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

PROP CLEANOUT EVERY 500' (TYP)

APPROX LIMIT OF GRADING (TYP)

BELMONT CITIZENS FORUM

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

PROP GRASS SWALE 917+09 TO 932+62 LT

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

PROP TEMP EASEMENT

PROP TEMP EA

PRC EA

END PROP GRAS SWALE +3

CONTINUED ABOVE RIGHT

925 926 927 928 929 930 931

BELMONT COMMUNITY PATH CONST

R&D PROPANE TANK

RET RET RET RET RET RET RET

PROP TEMP EASEMENT PROP PERM EASEMENT PROP PERM EASEMENT PROP STEEL SLEEVE PROP TEMP EASEMENT PROP 4" MBTA GAS SERVICE

RET EMH RET EMH RET EHH

RET TEL

EDGE OF BALLAST STONE GRAVEL/DIRT

APPROX LIMIT OF GRADING (TYP)

RET EXIST SIGNAL CONDUIT

APPROXIMATE LOCATION OF EXIST MBTA SIGNAL LINE

324 323

MBTA FITCHBURG LINE

0 20 50 100

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 76

6" CPP CONNECTION 6" CPP CONNECTION

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 Sep-26 9:22 AM

NOTES:
1. SEE LIGHTING PLAN FOR ELECTRICAL CONDUIT.
2. 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	STP/CMQ/TAP-0034(035)X	76	221
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

CHANNING ROAD

ALEXANDER AVENUE

MBTA FITCHBURG LINE

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

N

RET UP 30-5.2 PROP SERVICE CONNECTION FOR LIGHTING LOAD CENTER

PROP LIGHTING LOAD CENTER, SEE LIGHTING PLANS

RET UPL 109 W/ RISER

PROP LIGHTING HH (TYP)

APPROX LIMIT OF GRADING (TYP)

PROP LP +69.25 OFFSET: 7.92

PROP 1" LIGHTING CONDUIT (TYP)

PROP 4" MBTA GAS SERVICE

PROP 6'X13' EMH

ALEXANDER AVENUE CONST B

PROP 6"X 6" GAS TEE

PROP 6" MBTA GAS SERVICE (BO)

PROP 6" MBTA GAS SERVICE METER W/ CC PAD AND BOLLARDS (4) (BO)

PROP LP (TYP) SEE LIGHTING PLANS +35.47 OFFSET: 7.71

PROP TEMP EASEMENT

PROP LP +27.16 OFFSET: 6.69

PROP 6-5" ELEC DUCT BANK

PROP LIGHTING HH 9"X11" (TYP)

PROP LP +71.51 OFFSET: 9.04

PROP LP +97.49 OFFSET: 22.73

23 LF - 12" RCP

30 LF - 12" RCP

CB 12

DMH 14

24 LF - 12" RCP

DMH 2

40 LF - 12" RCP

933+27.46 BELMONT COMMUNITY PATH= 502+09.82 ALEXANDER AVE SPUR

CB 13

18 LF - 12" RCP

12 LF - 12" RCP

59 LF - 12" RCP

CB 4

PROP TEMP EASEMENT

PROP PERM EASEMENT

PROP TEMP EASEMENT

PROP GRASS SWALE 917+09 TO 932+62 LT

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

END PROP GRASS SWALE +36

125 LF - 12" RCP

PROP 4" MBTA GAS SERVICE

PROP LP +97.91 OFFSET: 20.77

CB 1

REM 502

DMH 6

144 LF - 12" RCP

DMH 5

PROP 6'X13' EMH

RET ELEC EQUIPMENT

RET EHH

RET EMH

PROP 4" MBTA GAS SERVICE

PROP BOOSTER PUMP WITH PRE-MANUFACTURED HOUSING UNIT

PROP WALL MTD LIGHT SEE LIGHTING PLANS

DMH 7

55 LF - 12" PVC

PROP SOE (TYP)

CONTRACTOR TO REALIGN EXISTING PVC CONDUIT TO AVOID PROPOSED CONCRETE HEADWALL (SEE BRIDGE PLANS)

PROP PERM EASEMENT

PROP 4" MBTA GAS SERVICE

MBTA LAYOUT

PROP TEMP EASEMENT

REM EX WIRES (BO-BELMONT LIGHT) REM EXIST EMH

DMH 8

PROP PERM EASEMENT

PROP SERVICE CONNECTION

MBTA LAYOUT

PROP LP +39.07 OFFSET: 6.79

PROP EASE

PROP LP +69.25 OFFSET: 6.75

GICI 10

PROP TEMP EASEMENT

APPROX LIMIT OF GRADING (TYP)

PROP 4-5" ELEC DUCT BANK

PROP 6-5" ELEC DUCT BANK

REM LP

CB 11

76 LF - 12" RCP

28 LF - 12" RCP

13 LF - 12" RCP

APPROX LIMIT OF GRADING (TYP)

10 LF - 12" RCP

GICI 15

DMH 9

40 LF - 12" RCP

PROP 6'X13' EMH

RET EXIST INFILTRATION SYSTEM

EX DMH 1

PROP LP +13.22 OFFSET: 7.07

REM LP

CONTINUED IN INSET ABOVE

INSET

PROP LP +13.22 OFFSET: 7.07

REM LP

PROP LP +61.79 OFFSET: 7.70

REM LP

PROP PERM EASEMENT

PROP LP +20.79 OFFSET: 6.77

PROP 6'X13' EMH

EX DMH 1

PROP PERM EASEMENT

CONTINUED ON SHEET NO. 75

CONTINUED ON SHEET NO. 77

0 20 50 100

SCALE: 1" = 20'

DRAINAGE STRUCTURE TABLE

NAME/TYPE	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB 1	932+61.68	8.7 LT	16.10	I=12.70' (SUB-DRAIN LT)	I=12.60' (DMH 14)	
CB 4	935+14.16	7.0 LT	18.39	I=15.01' (SUB-DRAIN RT)	I=14.91' (DMH 5)	
CB 11	503+90.01	2.5 LT	13.54	I=10.86' (GICI 10) I=9.20' (GICI 15)	I=10.86' (DMH 9)	
CB 12	501+57.44	7.0 LT	15.69		I=12.52' (DMH 14)	
CB 13	933+63.55	8.9 LT	15.44		I=11.94' (DMH 6)	
DMH 2	501+96.08	4.3 LT	15.22	I=11.91' (DMH 14)	I=11.81' (DMH 6)	
DMH 5	935+00.03	0.1 RT	17.98	I=14.82' (CB 4)	I=14.72' (DMH 6)	
DMH 6	502+24.65	20.5 LT	15.02	I=11.61' (DMH 2) I=13.31' (DMH 5) I=11.71' (CB 13)	I=11.61' (DMH 7)	
DMH 7	502+53.17	15.5 LT	28.96	I=11.44' (DMH 6)	I=11.44' (DMH 8)	
DMH 8	503+10.66	16.2 LT	24.50	I=11.18' (DMH 7)	I=11.18' (DMH 9)	
DMH 9	503+89.66	19.5 LT	16.74	I=10.80' (DMH 8) I=10.80' (CB 11)	I=10.80' (EX DMH 1)	
DMH 14	501+75.81	12.2 RT	13.87	I=12.21' (CB 1) I=12.25' (CB 12)	I=12.21' (DMH 2)	
EX DMH 1	504+40.01	35.2 LT	15.60	I=10.60' (DMH 9)	I=10.60' (EX)	EX DMH
GICI 10	503+58.29	4.0 LT	13.03		I=11.00' (CB 11)	
GICI 15	504+04.53	4.0 LT	13.94		I=9.78' (CB 11)	

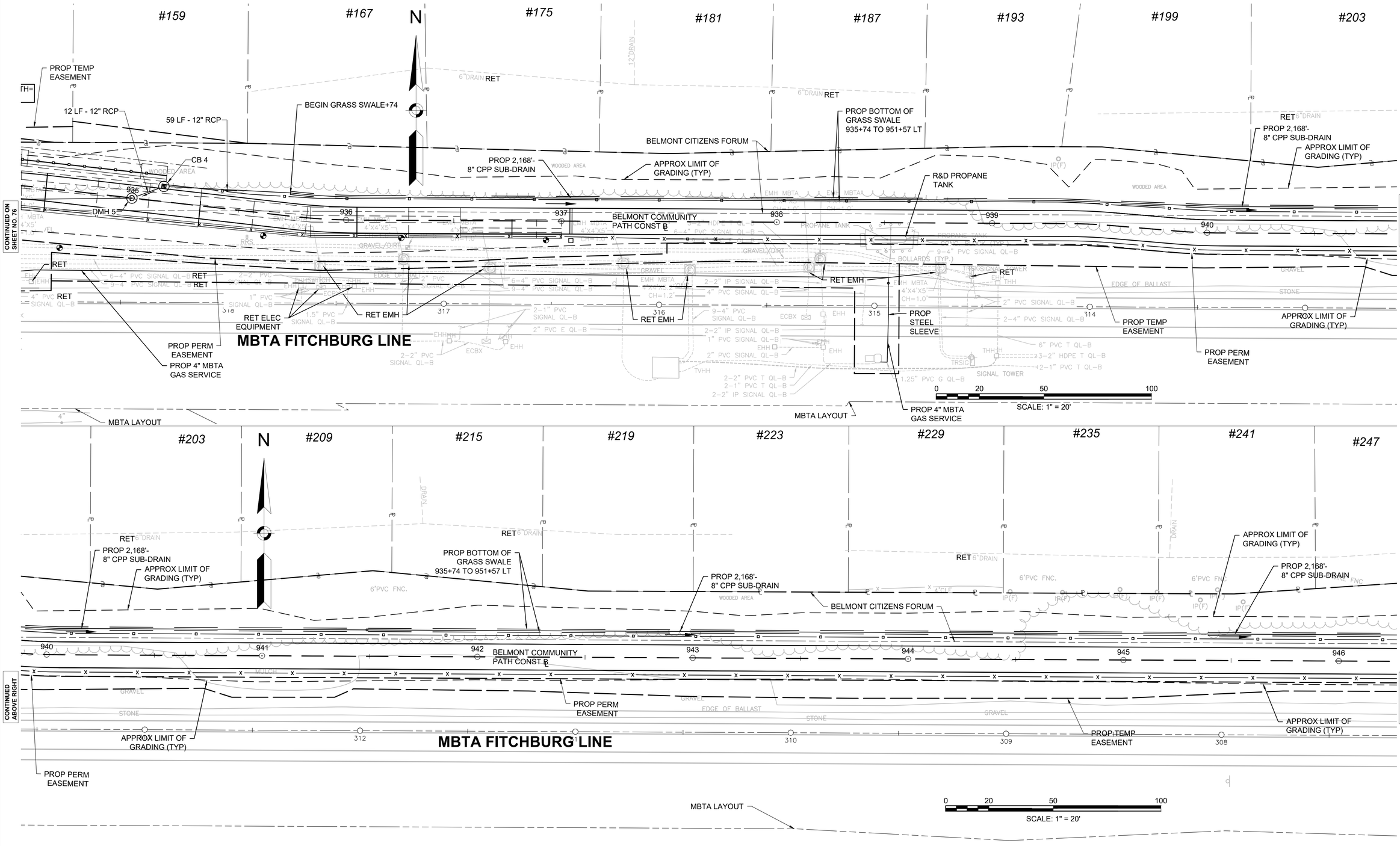
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609204_HD (BORDER SHEET).DWG Plotted on Sep-26 9:22 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	77	221
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS



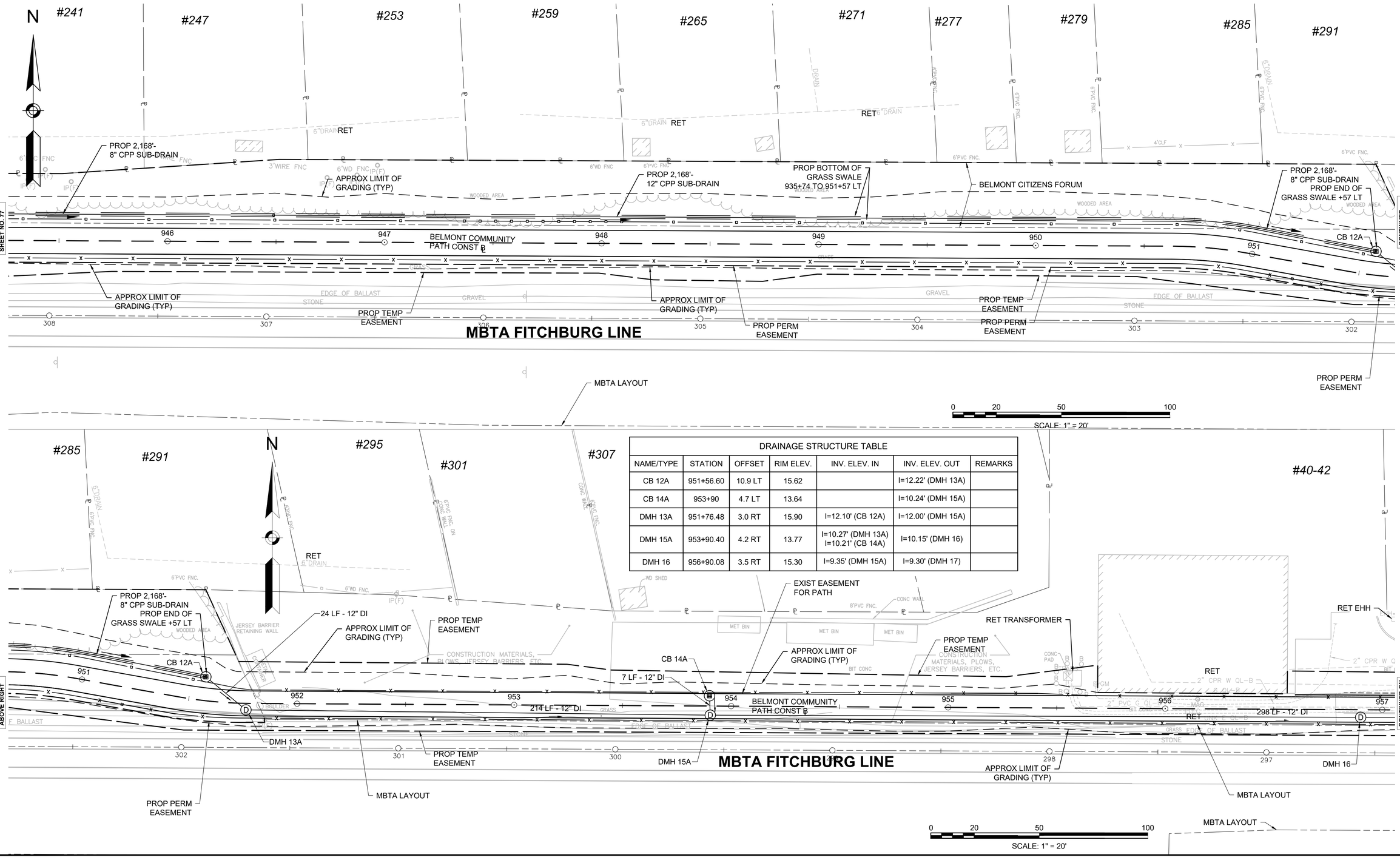
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609204_HD (BORDER SHEET).DWG Plotted on Sep-26 9:22 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	78	221
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS

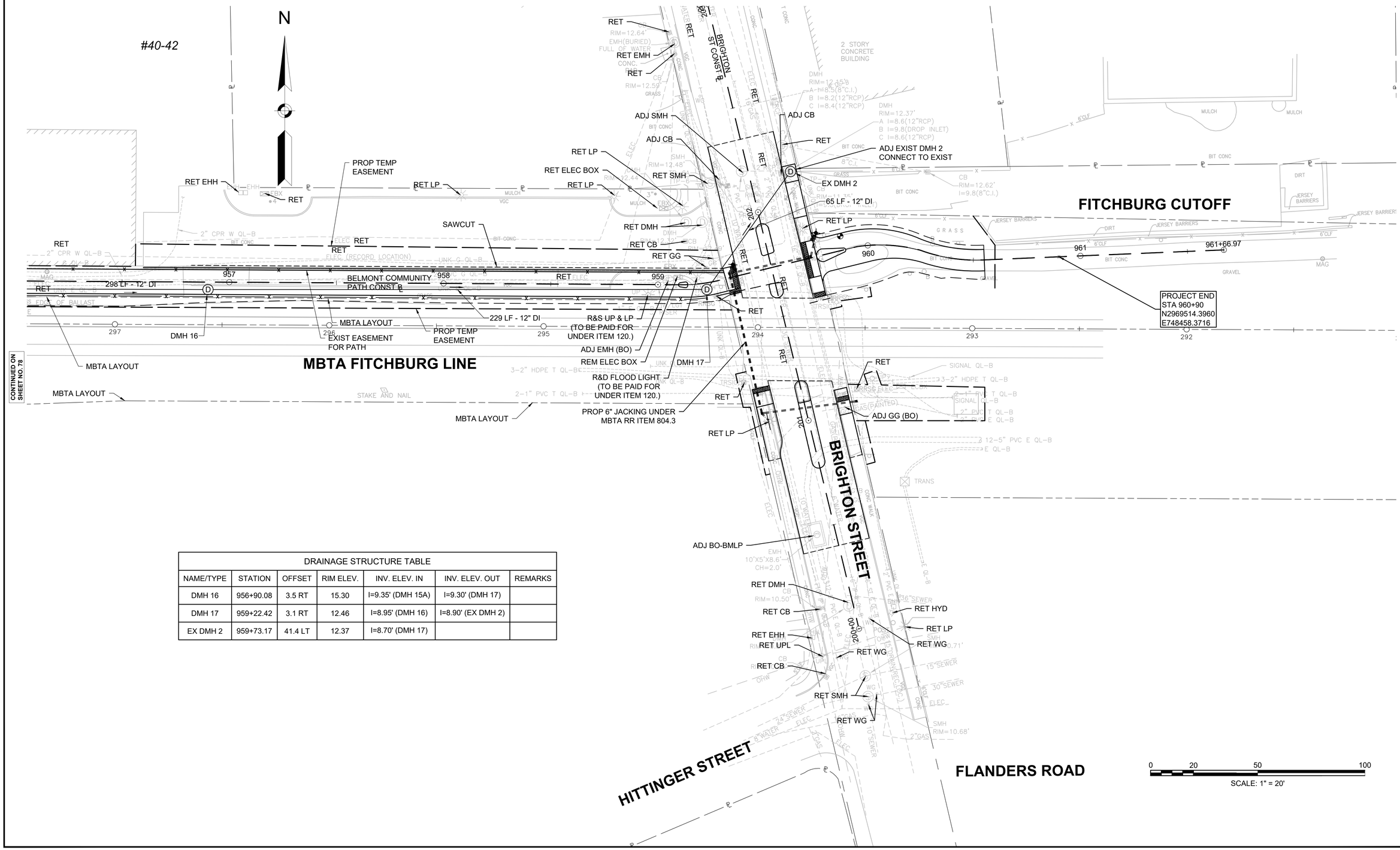


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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	79	221
PROJECT FILE NO.	609204		

DRAINAGE & UTILITY PLANS



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 15A)	I=9.30' (DMH 17)	
DMH 17	959+22.42	3.1 RT	12.46	I=8.95' (DMH 16)	I=8.90' (EX DMH 2)	
EX DMH 2	959+73.17	41.4 LT	12.37	I=8.70' (DMH 17)		

CONTINUED ON SHEET NO. 78

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	80	221
PROJECT FILE NO.	609204		

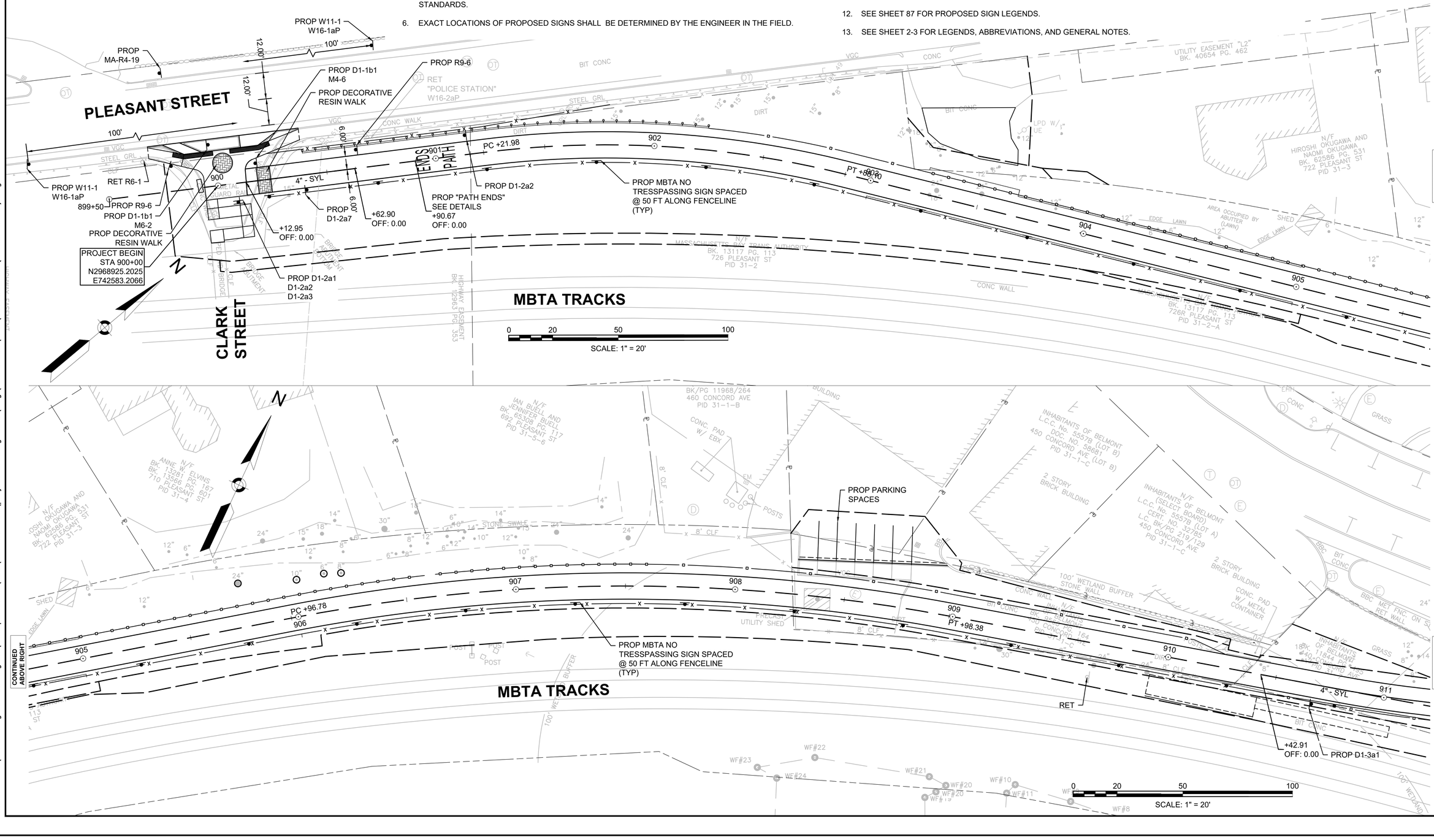
TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

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 87 FOR PROPOSED SIGN LEGENDS.
13. SEE SHEET 2-3 FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.



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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	81	221
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

SHARE THE ROAD W16-1p | NO PARKING ANY TIME R7-1 | R7-107-bNR | LEONARD ST D3-1 | SHARE THE ROAD W16-1p | PARKING D4-1 | R4-7

N

PROP PERM EASEMENT
PROP TEMP EASEMENT
RET EX PVMT MARKINGS
RET R7-5
RET W11-2 W16-7P
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 D1-1b1 M6-3
RET D4-1L
RET W16-1p
PROP D1-3a2
PROP D1-2a4
PROP D3-1b

CONCORD AVENUE
CHANNING ROAD
BELMONT STATION
MBTA TRACKS

PC +45.40 | PT +56.44 | PC +92.37 | +92.53 OFF: 0.00 | PT +18.19 | +76.04 OFF: 0.00 | PRC +49.82 | PT +82.17 | +62.15 OFF: 0.00 | PC +69.90 OFF: 0.00 | +49.86 OFF: 0.00 | PT +04.87 | PC +32.23 | +42.91 | +18.53 OFF: 0.00 | PC +13.77 | PT +29.18 | PT +66.58 | PT +32.50 | PC +68.45 | PC +12.59 | PRC +41.29 | PC +07.65 | PT +08.25 | 2+21.72

911 912 913 914 915 916 917 918 919 920 921 922 | 337 338 340 | 340+61

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)

SCALE: 1" = 20'

CONTINUED ON SHEET NO. 80
CONTINUED BELOW LEFT
CONTINUED ABOVE RIGHT
CONTINUED ON SHEET NO. 82

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

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

3 STORY BRICK/WOOD BUILDING

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

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

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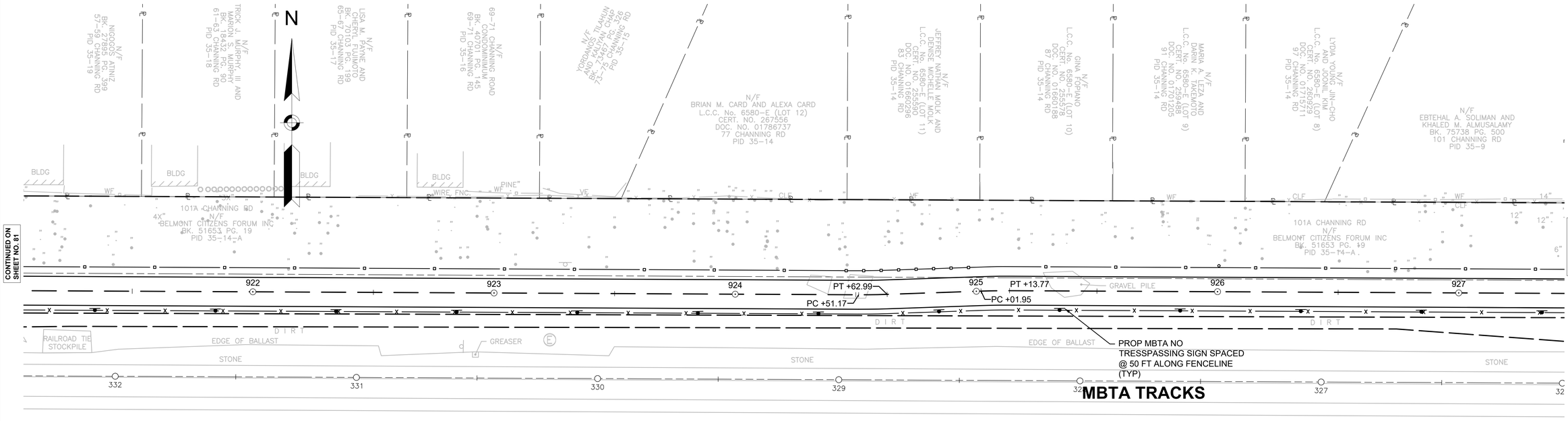
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	82	221
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

NONE



Nitsch – P:\9720.23 great barrington\transportation\cad\607756 cad\project drawing data\dwg\references\xref\607756_HD (Border Sheet).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	STP/CMQ/TAP-0034(035)X	83	221
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

CHANNING ROAD

ALEXANDER AVENUE

MBTA TRACKS

N

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 D1-1b1
M4-6
PC +34.68
PROP W2-6
W16-17P
PROP "PATH ENDS"
SEE DETAILS
+52.86
OFF: 0.00
PROP D1-3a4
PT +05.61
+73.83
OFF: 1.79
PROP R1-2
R6-5P
+71.44
OFF: 14.11
PT +82.67
PC +44.99
PT +49.97
PROP D1-3a3
PROP MBTA NO
TRESSPASSING SIGN SPACED
@ 50 FT ALONG FENCELINE
(TYP)
+91.69
OFF: 0.00
+96.69
OFF: 0.00
+46.75
OFF: 0.01
PROP R1-2
R6-5P
+07.65
OFF: 7.43
PI +19.69
PI +97.45
PC +77.76
PT +85.93
PI +93.80
PC +09.99
PT +30.56
+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 +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
933+19.70 BELMONT COMMUNITY PATH=
502+04.32 ALEXANDER AVE SPUR
+34.87
OFF: 23.34
PC +06.78
PROP D1-3a5
PT +32.95
PC +75.99
PROP W2-6
W16-17P
+28.98
OFF: 0.00
PT +18.43
+55.74

INSET
PC +55.74
PT +75.73
PC +91.38
PT +07.25
PI +25.81

CONTINUED ON SHEET NO. 82
CONTINUED ON SHEET NO. 84
CONTINUED ON INSET ABOVE

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	STP/CMQ/TAP-0034(035)X	84	221
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

NONE

N

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

N/F
DEEN B. BHATTA AND
SHARDA BHATTA
BK. 71255 PG. 154
167 CHANNING RD
PID 37-89

N/F
JENNIFER SCHWARTZ AND
JOHN A. QUINN, JR.
BK. 76382 PG. 194
175 CHANNING RD
PID 37-88

N/F
FANG FAMILY IRREVOCABLE
TRUST OF 2005
BK. 72780 PG. 343
181 CHANNING RD
PID 37-87

N/F
PAUL JEFFREY CORRIGAN
AND LINDA M. CORRIGAN
BK. 46016 PG. 404
187 CHANNING RD
PID 37-86

N/F
WILLIAM A. DEORIO
FAMILY TRUST
BK. 72029 PG. 428
193 CHANNING RD
PID 37-85

N/F
MENG YU ZHU
AND QIUMING CHU
BK. 40971 PG. 33
199 CHANNING RD
PID 37-84

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

PROP D1-3a6

END DYL

PROP W2-6
W16-17P

6'VINYL FNC.

WOODED AREA

PT +59.47

935

4" - DYL

936

PT +05.77

PC +72.90

937

938

939

PC +35.53

PT +55.48

PC +85.68

940

PT +05.64

CONTINUED ON SHEET NO. 83

CONTINUED BELOW LEFT

GRAVEL

+45.91

OFF: 0.02

GRAVEL/DIRT

+56.66

OFF: 0.00

PROPANE TANK

BOLLARDS (TYP.)

GRAVEL

EDGE OF BALLAST

STONE

EHH

EHH SWITCH

318

317

316

315

314

313

MBTA TRACKS

PROP PERMANENT NTCS
(ITEM 871.22)

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

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

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

0 20 50 100

SCALE: 1" = 20'

N

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

N/F
WILLIAM L. LANGMAID AND
LEANNE M. LANGMAID
BK. 70039 PG. 190
209 CHANNING RD
PID 37-82

N/F
MICHAEL CROWLEY AND
PATRICIA CROWLEY
BK. 36977 PG. 89
215 CHANNING RD
PID 37-81

N/F
JOSEPH G. PULITANO, II
AND EVELYN F. FOWLER
BK. 26657 PG. 187
219 CHANNING RD
PID 37-80

N/F
ANDREW WALL AND
CATHERINE WALL
L.C.C. No. 29488A (LOT 1)
CERT. NO. 255535
DOC. NO. 01659786
223 CHANNING RD
PID 37-79

N/F
FRANK C. NAPOLI
BK. 664 PG. 128
PER ASSESSORS DEED
(NOT FOUND)
229 CHANNING RD
PID 37-78

N/F
JANE H. MacKINNON AND
BRUCE MacKINNON
L.C.C. No. 29488A (LOT 3)
CERT. NO. 235185
DOC. NO. 01390376
235 CHANNING RD
PID 37-77

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
INHABITANTS OF BELMONT

6'PVC FNC.

WOODED AREA

4'CLF

3'WIRE FNC

940 PT +05.64

941

942

943

944

945

946

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 85

MULCH

GRAVEL

STONE

EDGE OF BALLAST

313

312

311

310

309

308

MBTA TRACKS

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

101C CHANNING RD
N/F
MASSACHUSETTS BAY TRANS AUTHORITY BK. 13117 PG. 113
PID 36-1

0 20 50 100

SCALE: 1" = 20'

N/F
INHABITANTS OF BELMONT

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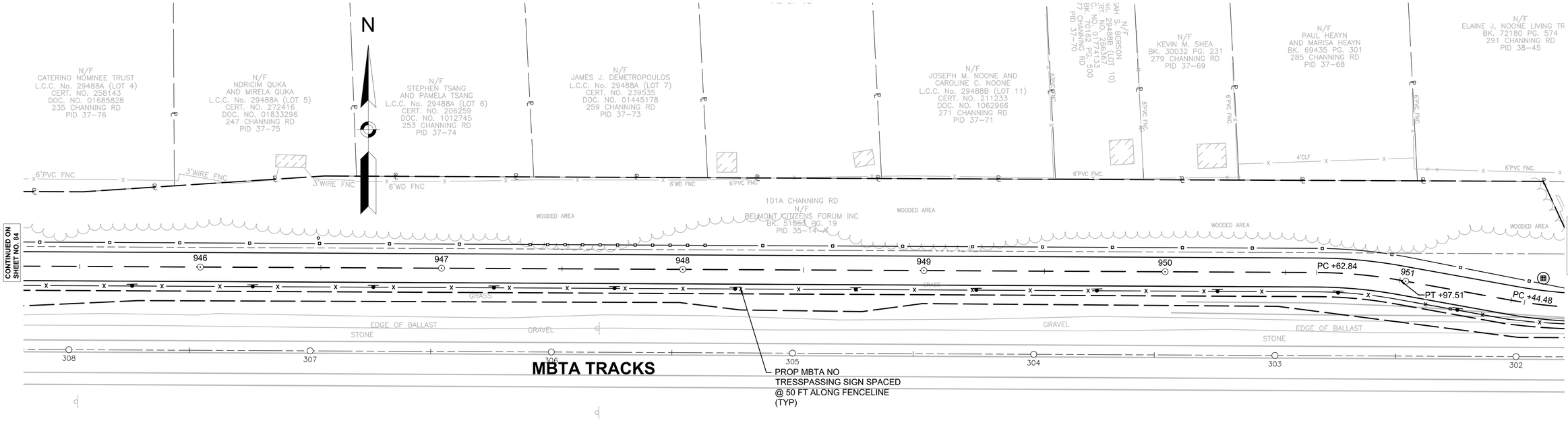
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	85	221
PROJECT FILE NO.	609204		

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS

EXISTING SIGN LEGEND

NONE



Nitsch – P:\9720.23 great barrington\transportation\cad\607756 cad\project drawing data\dwg\references\xref\607756_HD (Border Sheet).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	STP/CMQ/TAP-0034(035)X	86	221
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

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

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

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
35 BRIGHTON STREET

N/F
MASSACHUSETTS BAY TRANS AUTHORITY
BK. 13117 PG. 113
37 BRIGHTON ST
PID 38–1

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

959+53.83 BELMONT COMMUNITY PATH=
201+73.42 BRIGHTON ST

FITCHBURG CUTOFF

MBTA TRACKS

BRIGHTON STREET

PROJECT END
STA 960+55.39
N2969512.9524
E748423.7883

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

+35.00 OFF: 1.09
+25.66 OFF: 1.11
RET MBTA SIGN
+35.02 OFF: 9.97
R&D W11-15 W11-15P
+93.35 OFF: 2.28
PROP D1-2a4
+79.70 OFF: 2.23
+84.08 OFF: 14.53
PROP RRFB ASSEMBLY W/ W11-15 (2) AND W16-7p (L&R) SIGNS ON SIGNAL POST
+29.98 OFF: 0.00
PT +29.22
PROP D1-2a5
PC +10.78
+59.61 OFF: 0.00
+10.49 OFF: 0.00
+14.75 OFF: 0.00
+34.97 OFF: 12.75
+93.16 OFF: 2.43
RET R8-8
R&R W16-15 W16-15P
PROP RRFB ASSEMBLY W/ W11-15 (2) PROP 15' SIGNAL POST, BASE, & FDN
RET R1-1
PROP D3-1d
+90.38 OFF: 0.00
PRC +24.61
+38.05 OFF: 0.01
R&D D11-1
M4-6
PROP D1-2a6
PT +54.32
PC +95.13
R&R D1-1b1
D11-1
SP-1
R&D M4-14
R&R R5-3
R&D SP-1
PROP R1-1
D3-1d
PROP R5-3
RET R15-1
R&D R8-8
PROP R8-8
PROP D1-1b1
D1-1a1
PROP 12" SWL
PROP 6" SWL
RET R8-8
PROP R4-7
PROP 12" SWL
PROP 6" SWL
RET R15-1
PROP D1-2a8
+57.23 OFF: 14.72
+57.99 OFF: 3.28
+09.07 OFF: 3.80
RET R8-8
SP-2
+78.25 OFF: 2.27
+19.82 OFF: 3.10
+78.50 OFF: 2.44
+46.93 OFF: 1.59
+40.00 OFF: 1.44

12" YGL - 45° @10' O.C.
6" - SWL
6" - DBYL
6" - SYL
4" - SYL
7.00'
6.18'
11.00'
5.93'
5.75'
AHEAD
STOP
10'-17' CW
1.40'
11.50'
1.00'
9.34'
13.12'
11.10'
6.00'
5.27'
7.00'
100'-00"
200'-00"

CONTINUED ON SHEET NO. 85

0 20 50 100
SCALE: 1" = 20'

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PROPOSED TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	TEXT DIMENSIONS (INCHES) VERTICAL SPACING	TEXT DIMENSIONS (INCHES) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACKGROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED ②	UNIT AREA (S.F.)	AREA IN SQUARE FEET
MA–R4–19	30"	30"	4 FT MIN CLEARANCE TO PASS	SEE MASSDOT STANDARDS			1	WHITE	BLACK	BLACK	P–5 1 REQ'D	6.25	6.25
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				6	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
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
R9–6	12"	18"	YIELD TO PEDS				2	WHITE	BLACK	BLACK	P–5 2 REQ'D	1.50	3.00
D1–1AX	VARIES	6"	SEE SIGN DETAILS SHEET 88				1	GREEN	WHITE	WHITE	MTD W/ D11–1	SEE SIGN DETAILS SHEET 88	
D1–1b1	36"	42"	SEE SIGN DETAILS SHEET 88				5	GREEN	WHITE	WHITE	P–5 5 REQ'D	10.50	73.50
D1–2AX	VARIES	12"	SEE SIGN DETAILS SHEET 88				7	GREEN	WHITE	WHITE	P–5 7 REQ'D	SEE SIGN DETAILS SHEET 88	
D1–3AX	VARIES	18"	SEE SIGN DETAILS SHEET 88	↓	↓		6	GREEN	WHITE	WHITE	P–5 6 REQ'D	SEE SIGN DETAILS SHEET 88	
D3–1A	48"	8"	Belmont Station	4D	2" 4D 2"		2	GREEN	WHITE	WHITE	P–5 2 REQ'D	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.	
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	STP/CMQ/TAP-0034(035)X	87	221
PROJECT FILE NO.	609204		

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	TEXT DIMENSIONS (INCHES) LETTER HEIGHT	TEXT DIMENSIONS (INCHES) VERTICAL SPACING	TEXT DIMENSIONS (INCHES) ARROW RTE. MKR.	NUMBER OF SIGNS REQUIRED	COLOR BACKGROUND	COLOR LEGEND	COLOR BORDER	POST SIZE AND NUMBER REQUIRED ②	UNIT AREA (S.F.)	AREA IN SQUARE FEET
W11–1	36"	36"		①	①	①	2	FLUORESCENT YELLOW GREEN	BLACK	BLACK	P–5 2 REQ'D	9.00	18.00
W11–2	36"	36"					1	FLUORESCENT YELLOW GREEN	BLACK	BLACK	P–5 1 REQ'D	9.00	9.00
W11–15	30"	30"					4	FLUORESCENT YELLOW GREEN	BLACK	BLACK	P–5 1 REQ'D	6.25	6.25
W16–1aP	18"	12"	IN STREET				2	FLUORESCENT YELLOW GREEN	BLACK	BLACK	MTD W/ W11–1	1.50	5.00
W16–7pL	21"	15"					2	FLUORESCENT YELLOW GREEN	BLACK	BLACK	MTD W/ W11–15	1.50	5.00
W16–7pR	21"	15"					2	FLUORESCENT YELLOW GREEN	BLACK	BLACK	MTD W/ W11–15	1.50	5.00
W16–12aP	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.

NOTES:
1. ADDITIONAL SIGNS MAY BE REQUIRED BY THE MBTA AND MUST BE COORDINATED AND APPROVED PRIOR TO INSTALLATION.

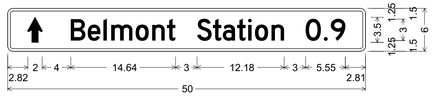
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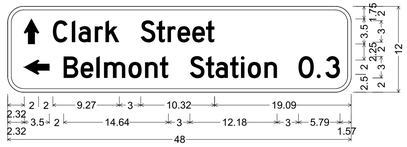
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	88	221
PROJECT FILE NO.	609204		

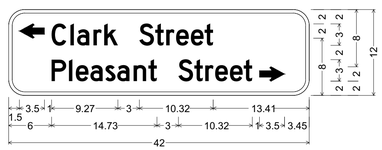
TRAFFIC SIGN DETAILS



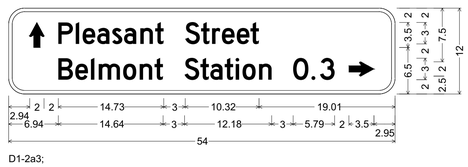
D1-1a1;
0.75" Radius, 0.38" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90°;
"Belmont Station 0.9", D 2K;



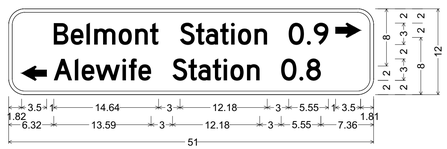
D1-2a1;
2.25" Radius, 0.50" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90°; "Clark Street", D 2K;
Standard Arrow Custom 3.50" X 2.00" 180°; "Belmont Station 0.3", D 2K;



D1-2a2;
2.25" Radius, 0.50" 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°;



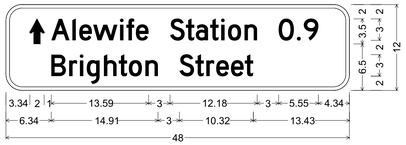
D1-2a3;
2.25" Radius, 0.50" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90°; "Pleasant Street", D 2K;
"Belmont Station 0.3", D 2K; Standard Arrow Custom 3.50" X 2.00" 0°;



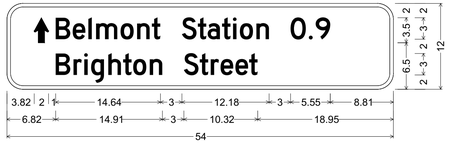
D1-2a4;
2.25" Radius, 0.50" Border, White on Green;
"Belmont Station 0.9", D 2K; Standard Arrow Custom 3.50" X 2.00" 0°;
Standard Arrow Custom 3.50" X 2.00" 180°; "Alewife Station 0.8", D 2K;



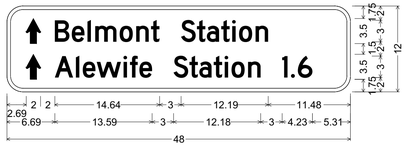
D1-1b1;
3.00" Radius, 1.00" Border, White on Green;
Pedestrian Symbol White; Bicycle;
"Massachusetts", D 2K;
"Community", D 2K; "Rail Trail", D 2K;



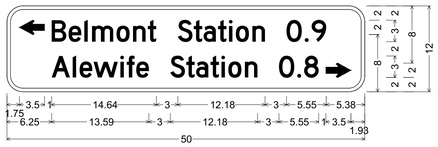
D1-2a5;
2.25" Radius, 0.50" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90°; "Alewife Station 0.9", D 2K;
"Brighton Street", D 2K;



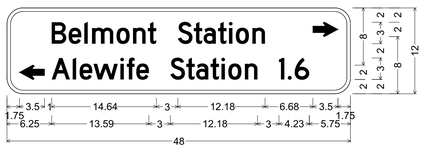
D1-2a6;
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Standard Arrow Custom 3.50" X 2.00" 90°; "Belmont Station 0.9", D 2K;
"Brighton Street", D 2K;



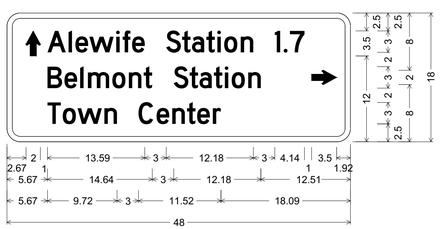
D1-2a7;
2.25" Radius, 0.50" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90°; "Belmont Station 0.3", D 2K;
Standard Arrow Custom 3.50" X 2.00" 90°; "Alewife Station 1.6 ", D 2K;



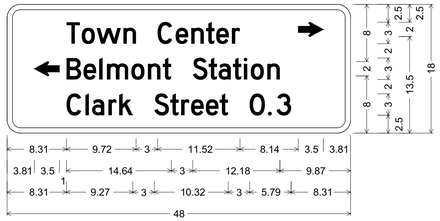
D1-2a8;
2.25" Radius, 0.50" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 180°; "Belmont Station 0.9", D 2K;
"Alewife Station 0.8", D 2K; Standard Arrow Custom 3.50" X 2.00" 0°;



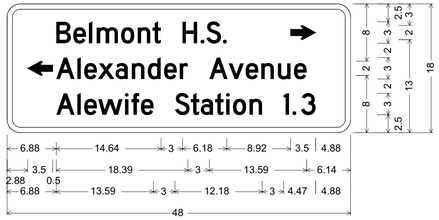
D1-2a9;
2.25" Radius, 0.50" Border, White on Green;
"Belmont Station", D 2K; Standard Arrow Custom 3.50" X 2.00" 0°;
Standard Arrow Custom 3.50" X 2.00" 180°; "Alewife Station 1.6", D 2K;



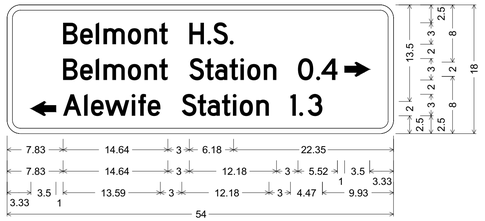
D1-3a1;
1.88" Radius, 0.75" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90°; "Alewife Station 1.7", D 2K;
"Belmont Station", D 2K; Standard Arrow Custom 3.50" X 2.00" 0°;
"Town Center", D 2K;



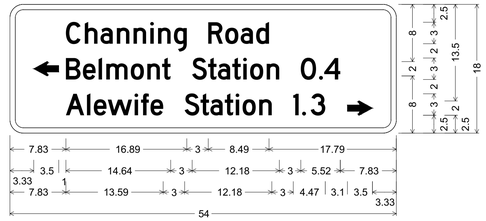
D1-3a2;
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"Town Center", D 2K; Standard Arrow Custom 3.50" X 2.00" 0°;
Standard Arrow Custom 3.50" X 2.00" 180°; "Belmont Station", D 2K;
"Clark Street 0.3", D 2K;



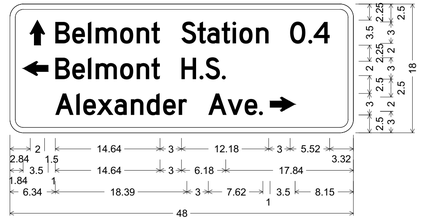
D1-3a3;
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"Belmont H.S.", D 2K; Standard Arrow Custom 3.50" X 2.00" 0°;
Standard Arrow Custom 3.50" X 2.00" 180°; "Alexander Avenue", D 2K;
"Alewife Station 1.3", D 2K;



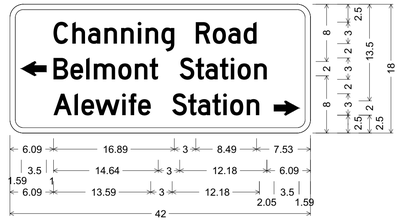
D1-3a4;
1.88" Radius, 0.75" Border, White on Green;
"Belmont H.S.", D 2K;
"Belmont Station 0.4", D 2K; Standard Arrow Custom 3.50" X 2.00" 0°;
Standard Arrow Custom 3.50" X 2.00" 180°; "Alewife Station 1.3", D 2K;



D1-3a5;
1.88" Radius, 0.75" Border, White on Green;
"Channing Road", D 2K;
Standard Arrow Custom 3.50" X 2.00" 180°; "Belmont Station 0.4", D 2K;
"Alewife Station 1.3", D 2K; Standard Arrow Custom 3.50" X 2.00" 0°;



D1-3a6;
1.88" Radius, 0.75" Border, White on Green;
Standard Arrow Custom 3.50" X 2.00" 90°; "Belmont Station 0.4", D 2K;
Standard Arrow Custom 3.50" X 2.00" 180°; "Belmont H.S.", D 2K;
"Alexander Ave.", D 2K; Standard Arrow Custom 3.50" X 2.00" 0°;



D1-3a7;
1.88" Radius, 0.75" Border, White on Green;
"Channing Road", D 2K;
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°;



NO TRESPASSING SIGN

- Signs to be 0.08" thick aluminum alloy sheet - ASTM B 209
- White reflectorized background. FS L-S-300 A TYPE I, Class I or 2, reflectivity I
- Black glass 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 D-wg. No.3206) and on all gates (see D-wg. 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
		ISSUE DATE Oct. 28, 1992

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	89	221
PROJECT FILE NO.		609204	

TRAFFIC SIGNAL PLAN

RAILROAD CROSSING GATE AND RRFB NOTES:

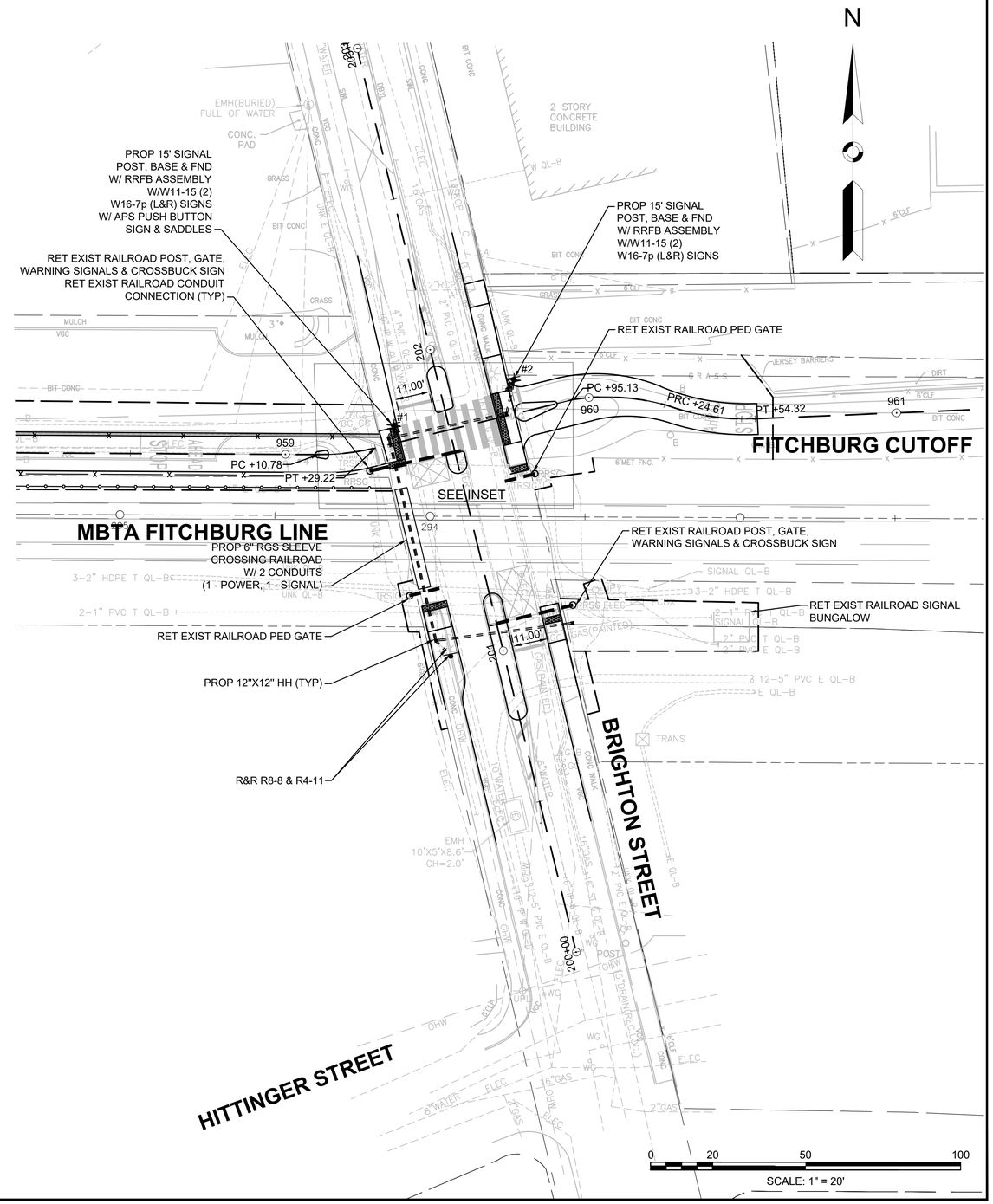
1. RETAIN ALL EXISTING RAILROAD SIGNAL EQUIPMENT AND CONDUIT CONNECTIONS UNLESS OTHERWISE NOTED.
2. CONSTRUCTION OF THE RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM SHALL CONFORM TO THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION'S (MASSDOT) "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", LATEST 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. PUSH BUTTON EXTENDERS SHOULD BE USED AS NEEDED TO COMPLY WITH GUIDANCE.
5. SEE SHEETS 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.

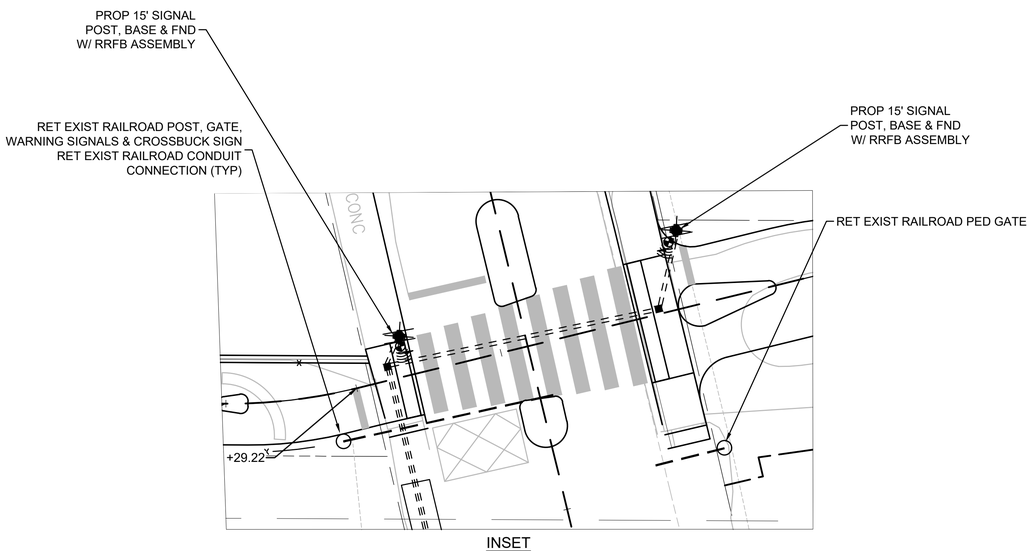
	MAJOR ITEMS REQUIRED	
PAY ITEM	QUANTITY	ITEM
825.01	2	POST-MOUNTED RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
804.3	150'	3" CONDUIT, TYPE NM
811.32	4	12" X 24" HANDHOLE (MASSDOT)
		Plus all necessary duct, cable, labor, miscellaneous material and equipment to complete the installation.

PROPOSED EQUIPMENT LAYOUT TABLE

NO.	SIGNAL EQUIP. DESCRIPTION.	STATION	OFFSET TO CENTER
#1	15' SIGNAL POST FOUNDATION	BRIGHTON STREET - STA 201+79.02	17.15' LT
#2	15' SIGNAL POST FOUNDATION	BRIGHTON STREET - STA 201+82.76	23.32' RT

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





INSET

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609204_HD(TRAFFIC).DWG Plotted on Sep-26 9:26 AM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	90	221
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 (6-9 AM, 2:30-6 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 MASSDOT CONSTRUCTION STANDARD DETAILS 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

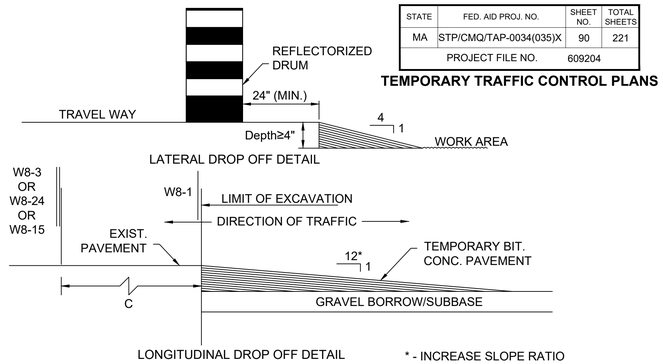
SPEED* (mph)	DISTANCE (ft)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

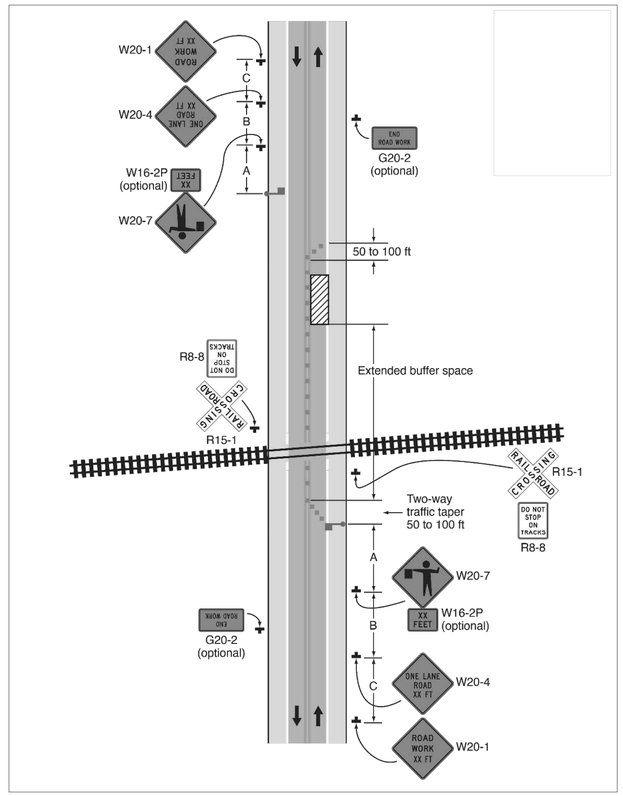
*POSTED SPEED, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

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.

MASSDOT TRAFFIC CONTROL DEVICES CONSTRUCTION STANDARD DETAILS		
DETAIL NUMBER	DETAIL NAME	CURRENT VERSION
850.1.1	TEMPORARY CURB RAMP (1 OF 2)	JAN 2025
850.1.2	TEMPORARY CURB RAMP (2 OF 2)	JAN 2025
851.1.1	CONES & DRUMS	JAN 2025
851.3.1	PEDESTRIAN CHANNELIZING DEVICE	JAN 2025
852.1.1	SIDEWALK DETOUR	JAN 2025
852.1.2	SIDEWALK DIVERSION	JAN 2025
852.5.3	TWO LAND ROAD SHOULDER CLOSURE	JAN 2025
852.5.4	TWO LAND ROAD HALF ROAD CLOSURE	JAN 2025
852.4.1	ALTERNATING ONE-WAY (FLAGGER CONTROL)	JAN 2025
852.10.2	INTERSECTION QUADRANT CLOSURE	JAN 2025
852.1.3	PEDESTRIAN DETOUR FOR CROSSWALK CLOSURE	JAN 2025
852.10.9	WORK NEAR RAILROAD CROSSING	JAN 2025





WORK ACROSS RAILROAD ALONG ROADWAY

NOTE: MBTA/KEOLIS MUST APPROVE TRAFFIC CONTROL PLANS PRIOR TO ANY WORK ALONG OR UNDER THE RAILROAD.

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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	STP/CMQ/TAP-0034(035)X	91	221
	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"	ROAD NARROWS	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"	XX M.P.H.	FLUORESCENT ORANGE	BLACK	BLACK	2	4.00	8.00
W16-1p	18"	24"	SHARE THE ROAD	FLUORESCENT ORANGE	BLACK	BLACK	1	4.00	4.00
W16-9p	24"	12"	AHEAD	YELLOW	BLACK	BLACK	4	2.00	8.00
W20-1	36"	36"	ROAD WORK AHEAD	FLUORESCENT ORANGE	BLACK	BLACK	5	9.00	45.00
W20-4	36"	36"	ONE LANE ROAD 500 FT	FLUORESCENT ORANGE	BLACK	BLACK	4	9.00	36.00
MA-W20-7b	36"	36"	POLICE OFFICER AHEAD	FLUORESCENT ORANGE	BLACK	BLACK	4	9.00	36.00
W21-5a	36"	36"	RIGHT SHOULDER CLOSED	FLUORESCENT ORANGE	BLACK	BLACK	1	9.00	9.00
W21-5C	36"	36"	BIKE LANE CLOSED AHEAD	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"	BIKE LANE	BLACK	WHITE	WHITE	1	3.00	3.00
R3-17bp	24"	8"	ENDS	WHITE	BLACK	BLACK	1	1.33	1.33
R4-11	24"	24"	MAY USE FULL LANE	WHITE	BLACK	BLACK	2	2.00	4.00
R9-8	24"	12"	PEDESTRIAN CROSSWALK	FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R9-9	24"	12"	SIDEWALK CLOSED	FLUORESCENT ORANGE	BLACK	BLACK	4	2.00	8.00
R9-10	24"	12"	SIDEWALK CLOSED USE OTHER SIDE	FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R9-11aL	24"	12"	SIDEWALK CLOSED CROSS HERE	FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R9-11aR	24"	12"	SIDEWALK CLOSED CROSS HERE	FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
R11-2e	24"	12"	BIKE LANE CLOSED	FLUORESCENT ORANGE	BLACK	BLACK	2	2.00	4.00
MA-R2-10a	48"	36"	WORK ZONE / SPEEDING FINES DOUBLED	FLUORESCENT ORANGE / WHITE	BLACK / BLACK	BLACK / BLACK	6	12.00	72
MA-R2-10e	36"	48"	END ROAD WORK / DOUBLE FINES END	FLUORESCENT ORANGE / WHITE	BLACK / BLACK	BLACK / BLACK	6	12.00	72

* NO. OF SIGNS ARE ESTIMATED FOR BIDDING PURPOSES ONLY

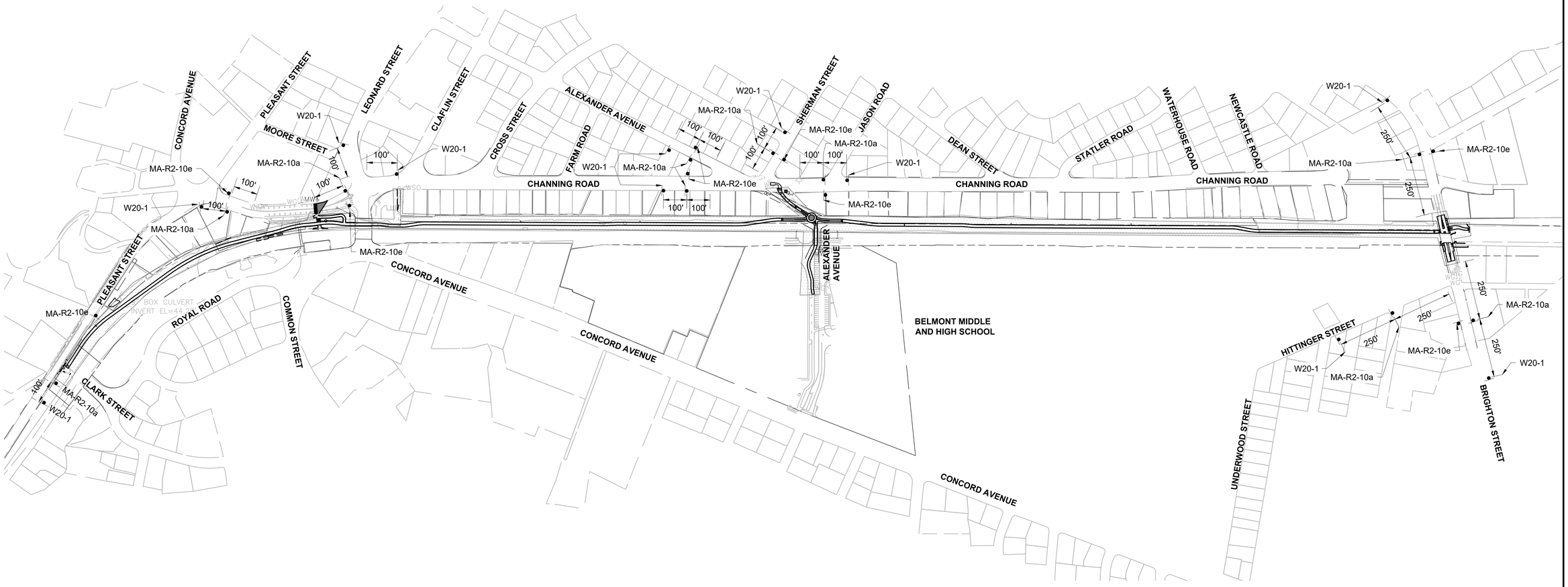
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	92	221
	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
- HH — ELECTRICAL HANDHOLE
- SH — 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		-	20	1	1	2	1	20	-	360		RECEPTACLE
ENCLOSURE HEATER		500	-	20	1	3	4	1	20	-		500	TIMECLOCK
SPARE	·		-	20	1	5	6	1	20	-	·		SPARE
SPARE		·	-	20	1	7	8	1	20	-		·	SPARE
SPARE	·		-	20	1	9	10	1	20	-	·		SPARE
SPARE		·	-	20	1	11	12	1	20	-		·	SPARE
SPARE	·		-	20	1	13	14	1	20	-	·		SPARE
SPARE		·	-	20	1	15	16	1	20	-		·	SPARE
SPARE	·		-	20	1	17	18	1	20	-	·		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	STP/CMQ/TAP-0034(035)X	93	221
	PROJECT FILE NO. 609204		

LEGEND, SCHEDULE & NOTES

GENERAL NOTES

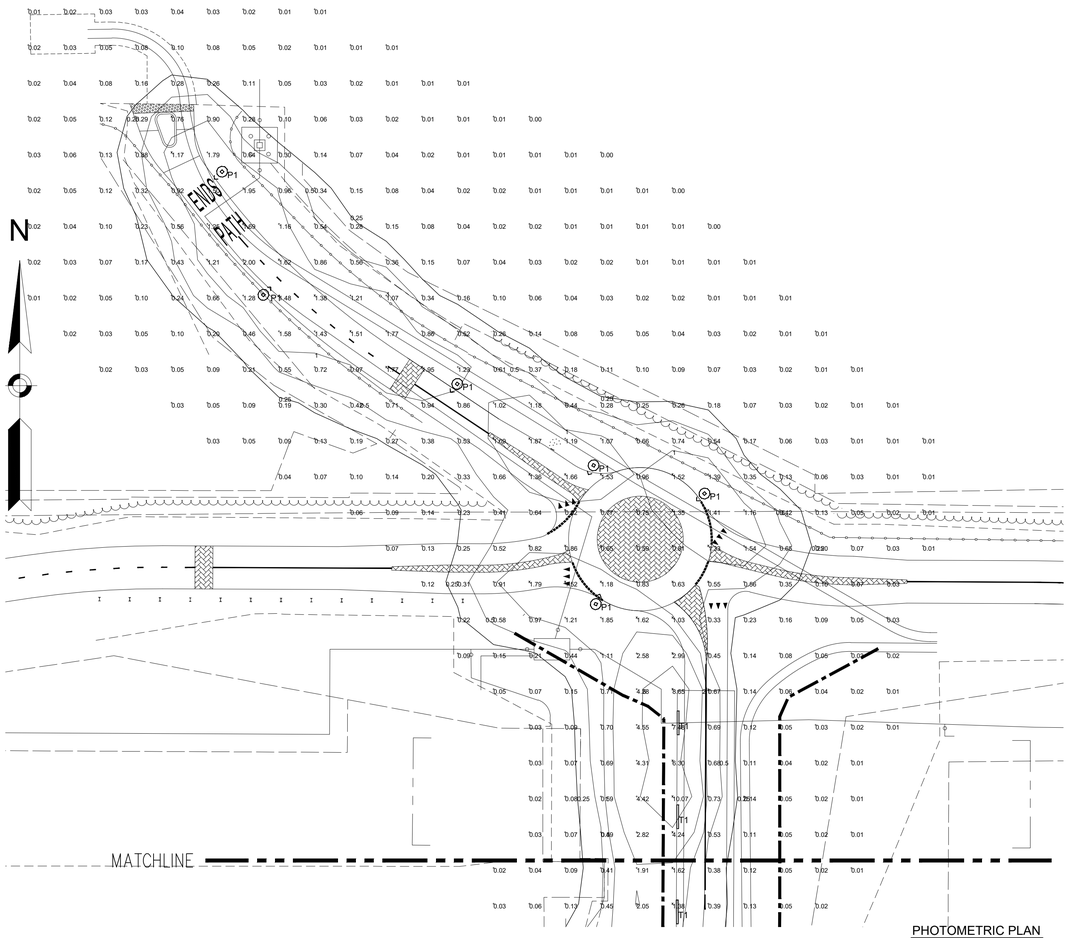
1. PERFORM ALL WORK IN ACCORDANCE WITH NATIONAL AND STATE ELECTRICAL CODES, LOCAL ORDINANCES, AND REQUIREMENTS OF THE WIRING INSPECTOR.
2. MATERIALS
   a. ALL WIRING SHALL BE COPPER; CONDUCTORS WITH AMPACITIES OF 100 AMPS OR LESS OR CONDUCTORS MARKED AWG #14 THROUGH #1 SHALL BE 60°C. (UNLESS EQUIPMENT 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.

ES0.1.DWG Plotted on 23-Sep-2026 12:03 PM

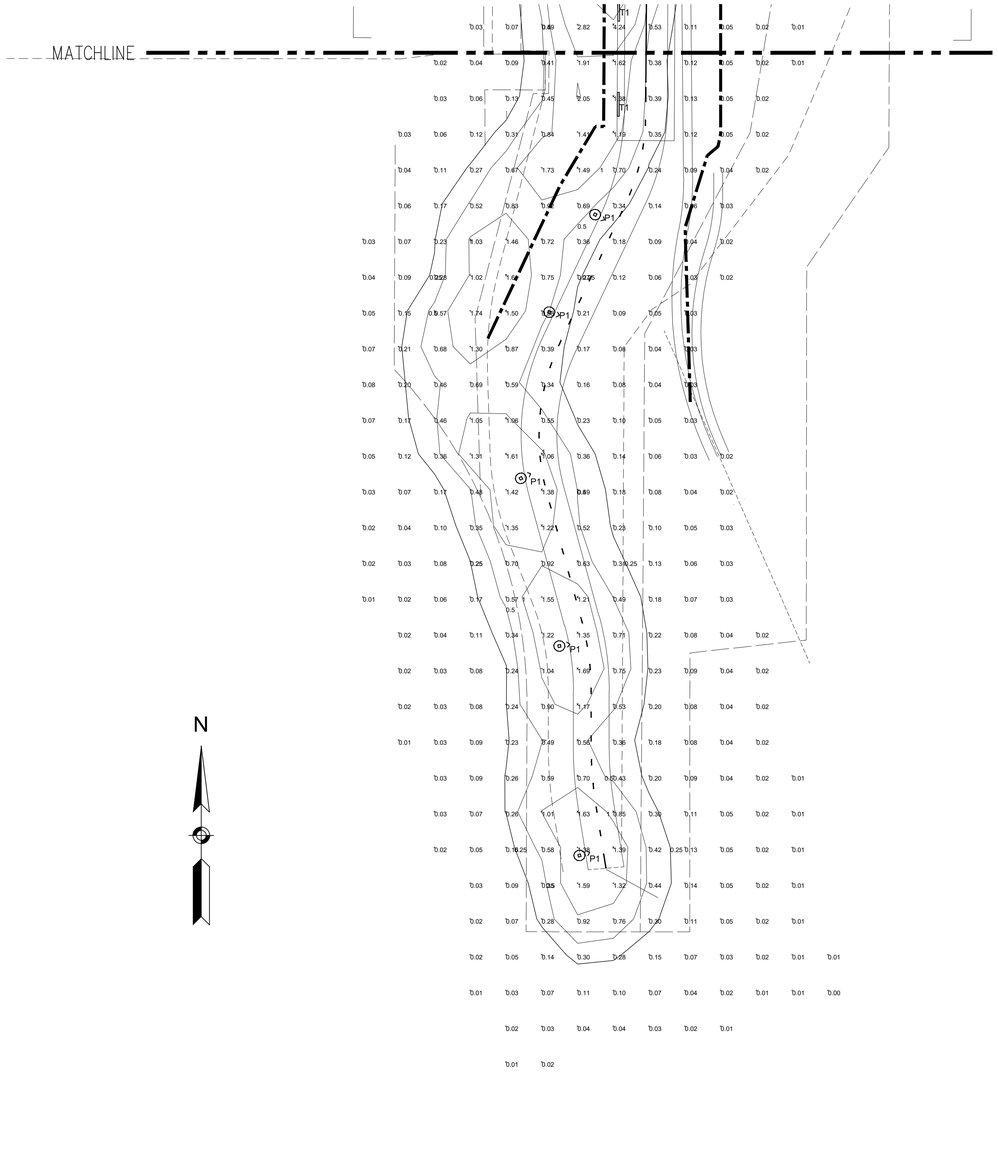
MassDOT DWT Name: ####################
MassDOT DWT Version: #####
MassDOT CAD Standard Release: ####
Release Date: ########

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	STP/CMQ/TAP-0034(035)X	94	221
	PROJECT FILE NO. 609204		

PHOTOMETRIC PLAN

SHEET 01 - PHASE 1.DWG Plotted on 23-Sep-2026 12:00 PM

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

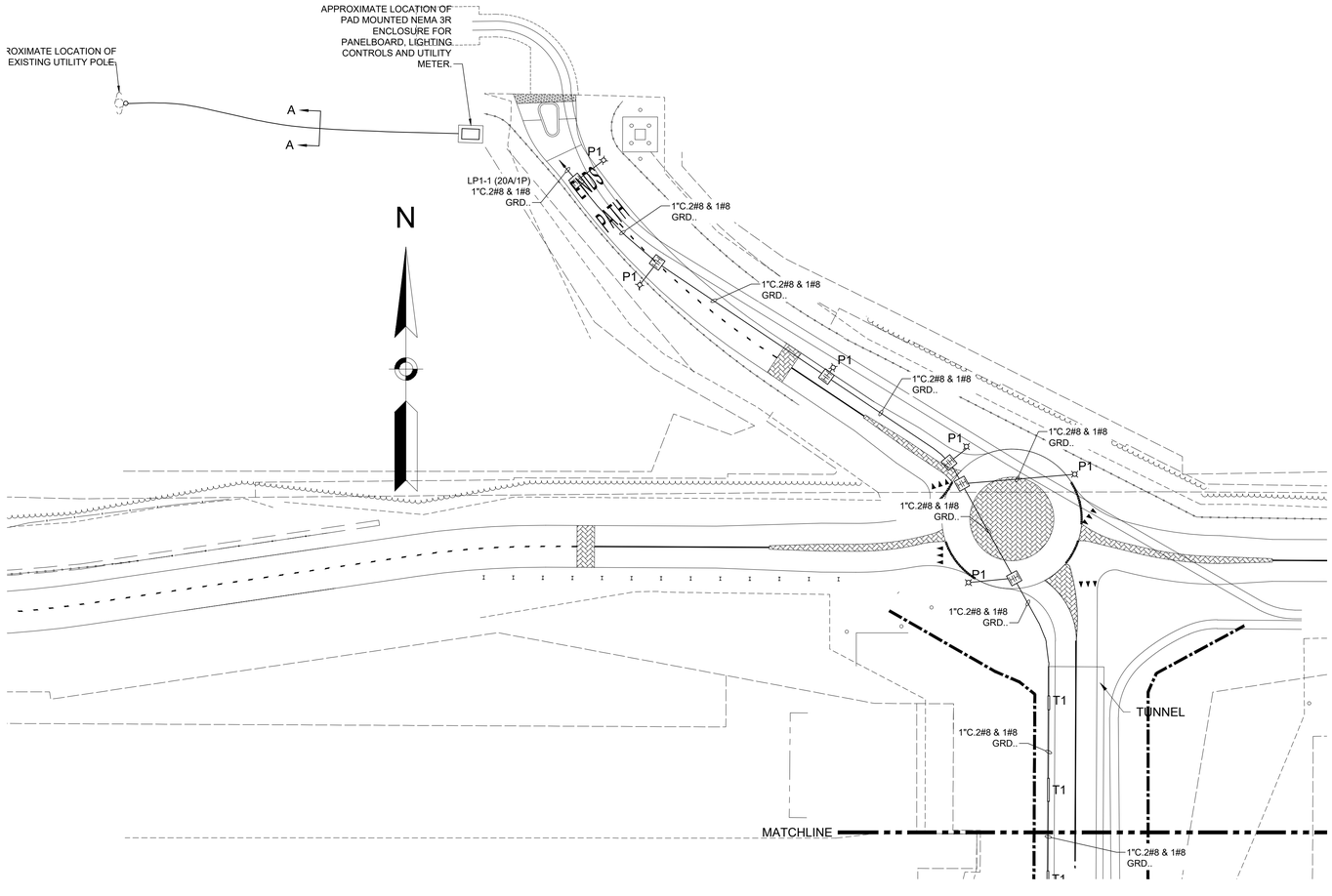
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

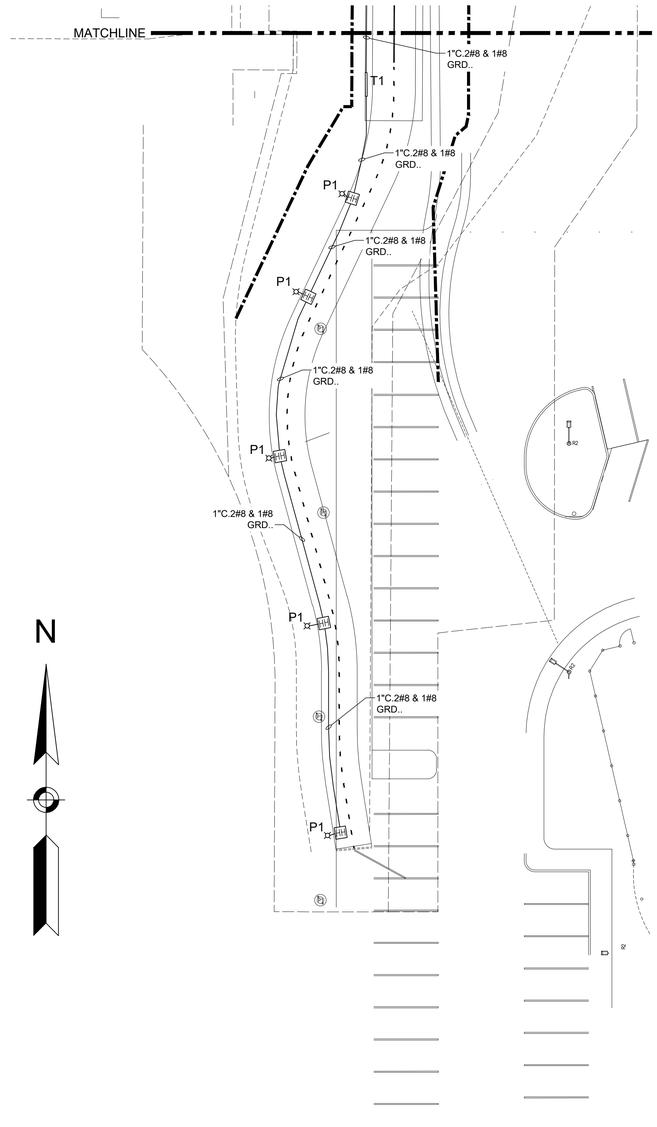
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	95	221
PROJECT FILE NO.	609204		

LIGHTING PLAN

SHEET 02 - PHASE 1.DWG Plotted on 23-Sep-2026 12:01 PM



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



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

Style	Numbers of LEDs	Drive Current	LED Color + Generation	Mounting	Distribution	Emergency	Voltage
PPT	140L	450	WW-G2 Warm White 3000K, 70 CRI Generation 2	T3 Mounts to a 3" x 4" Tenon (standard)	1 Comfort Type 1	Leave blank for no battery	120 120V
PPT PureForm post top, comfort optics	140L 140 LEDs	450 450 mA	NW-G2 Neutral White 4000K, 70 CRI Generation 2	T2 Mounts to a 2 3/8" x 4" Tenon (must be ordered and shipped as a separate accessory)	2 Comfort Type 2	EBPC Emergency battery pack cold weather [note]	208 208V
		650 650mA	CW-G2 Cool White 5000K, 70 CRI Generation 2		3 Comfort Type 3		240 240V
		1150 1150 mA [1]	WY-G2 Warm Yellow 2700K, 80 CRI Generation 2 [7]		5 Comfort Type 5	EBP Emergency battery pack [note]	277 277V
		1675 1675mA [1]	BW-G2 Balanced White 3500K (80 CRI) Generation 2 [7]				347 347V
		2100 2100 mA [1,2]	AM-G2 Amber Generation 2 [1,2]				480 480V
							UNV 120-277V (50/60Hz)
							HVU 347-480V (50/60Hz)

Options					
Dimming controls	Motion sensing	Photocontrol	Electrical shield	Fusing	Finish
DD 0-10V External dimming (by others) [4]	IMRI3 Integral with #3 lens [5]	PCB Photocontrol Button [9]	EHS External house side shield (factory installed)	F1 Single (120, 277, 347VAC) [6]	Textured
FAWS Field Adjustable Wattage Selector [4,5]		TLRDS Twist Lock Receptacle 5 Pin [6,10]		F2 Double (208, 240, 480VAC) [6]	BK Black
SW Interface module for SiteWise [4,5]		TLRD7 Twist Lock Receptacle 7 Pin [6,10]		F3 Canadian Double (Pull (208, 240, 480VAC) [6]	WH White
LLC Integral wireless module [4,7,9]		TLRPC Twist Lock Receptacle w/Photocell [6,7,9]			BZ Bronze
BL Bi-level functionality [7,8]				Surge Protection (10kA standard)	DGY Dark Gray
DynaDimmer Automatic Profile Dimming [7]				SP2 Increased 20kA	MGY Medium Gray
CS50 Security 50% Dimming, 7 hours					Customer specified
CM50 Median 50% Dimming, 8 hours				EHS External house side shield (factory installed)	RAL Specify optional color or RAL (ex: RAL7024)
CS30 Security 30% Dimming, 7 hours					CC Custom color (Must supply color chip for required factory quote)
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 ED and FAWS dimming control options.
14. Must specify a motion sensor liters.
15. Cannot be combined with HVU and BL-IMRI3.

LFI INNOVATION AWARDS 2020K only

PPT_PureForm_post_top 05/20 page 1 of 6

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-Od1-W2S

Prefix	Nominal Length	LED Number Qty	CRI & CCT	Board Generation	Optical System	Mounting Bracket	Wire Entry
TBL	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 Symmetrical DTS Standard Beam DTS-NB Narrow Beam DTS-WB Wide Beam	Od1 Fix 0° version 1 Od2 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 [1,2]	Driver 2 Watt and Drive Current [1,2]	Ballast	Driver Options	Luminaire Options	Finish
TBX TubeLine tunnel/ underpass driver box	1D 1 Driver 2D 2 Drivers	A [13] B * C D [13] E * F G [13] H * I J [13] K L *	A [13] B * C D [13] E * F G [13] H * I J [13] K L *	UNV 120-277VAC HVU 347-480VAC 120 * 120VAC 208 * 208VAC 240 * 240VAC 277 * 277VAC 347 * 347VAC 480 * 480VAC	DMG * 0-10V DALI * Digitally Addressable Lighting Interface SRD * Sensor Ready Driver standard configuration SRD1 * Sensor Ready Driver alternate configuration	API Factory Installed NEMA label, ANSI C136.15 compliant F1 * Single Fuse Holder F2 [4,9] Double Fuse Holder JB1 Junction Box, 1" NPT entries JB2 Junction Box, 3/4" NPT entries NER [9] Nyx Emera Ready SP2 20kV / 10kA Surge Protector (optional) TLL * Tool Less Entry Latches TLRSR * 5R receptacle VPA * 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).
6. Select either DALI or DMG or SRD or SRD1 mandatory option.
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)		Driver Wattage/Current selection (Min/Max refers to numbers of LEDs) * 75W [1]		100W *		160W
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 luminaires daisy chain.
15. Not available in HVU, 347, 480 or DMG Options.
16. Available with DMG option only.

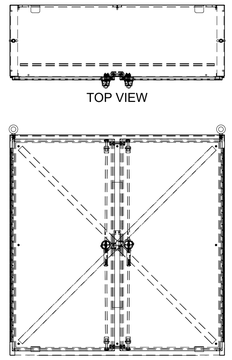
How to select driver box Watt and Drive current code:

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-Od1-W2S
Qty 1 of TBL-2-24L-740-G1-DTS-Od1-W1S

TubeLine_tunnel_luminaire 01/21 page 1 of 7



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 3R, 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.

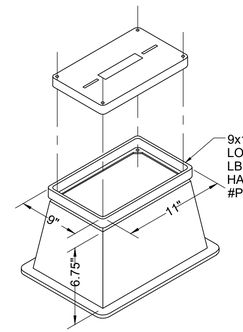
M. EXTERNAL HARDWARE MANUFACTURED OF TYPE 316 STAINLESS STEEL AND THE ENCLOSURE SHALL BE UNPAINTED AND FRONT, SIDES, TOP AND BACK SHALL A HAVE SMOOTH #4 BRUSHED FINISH.

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	96	221
	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:

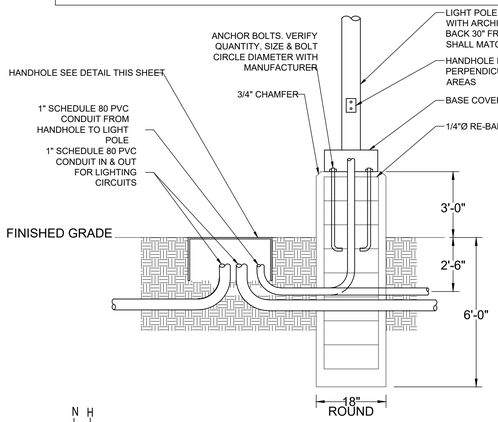
1. HAND HOLES SHALL BE A MINIMUM OF 9" X 11" X 6.75" DEEP WITH STRAIGHT SIDED AND A GASKETED COVER.
2. HAND HOLES SHALL BE FLUSH WITH GRADE AND COMPLY WITH THE 2023 NATIONAL ELECTRIC CODE.
3. EACH HAND HOLE SHALL BE MADE OF POLYMER CONCRETE AND BE STABLE UNDER FREEZE AND THAW CONDITIONS.
4. EACH HAND 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.

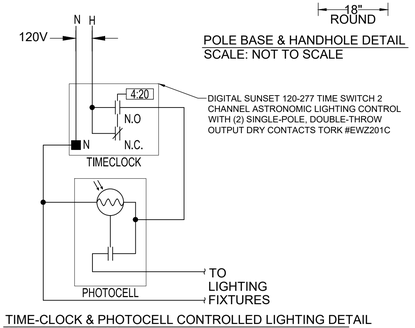
I. EXPOSED, SURFACE MOUNTED OUTLET BOXES OR OUTLET BOXES INSTALLED IN NORMALLY WET LOCATIONS SHALL BE OF THE CAST METAL TYPE WITH THREADED HUBS AS MANUFACTURED BY PASS & SEYMOUR/LEGRAND, CROUSE-HINDS OR RED DOT.

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.

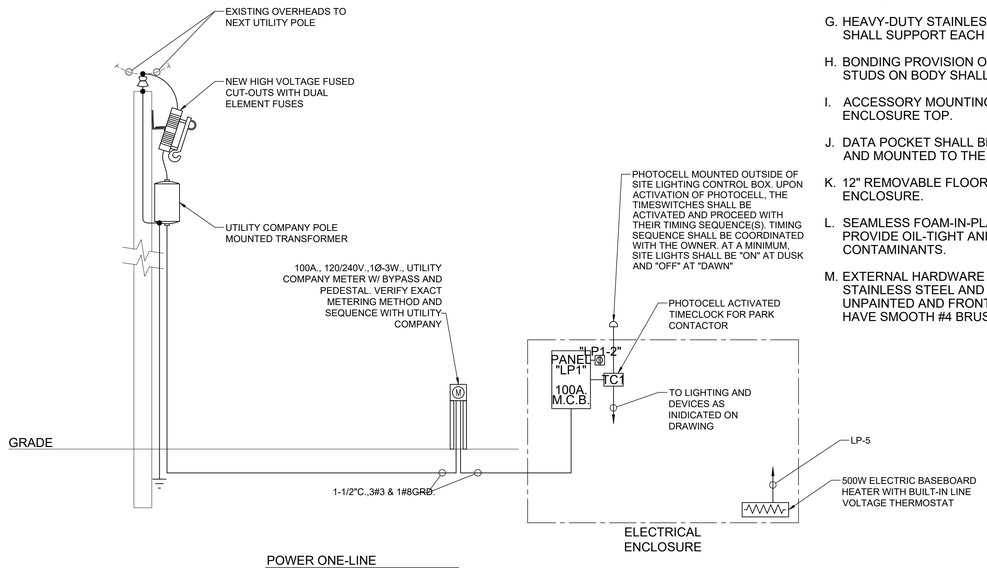
K. OUTLET BOXES ON THE EXTERIOR OF ANY STRUCTURE SHALL BE PROVIDED WITH UL LISTED WEATHERPROOF COVERS THAT ALLOW A PLUG TO BE IN PLACE WITH THE COVER IN CLOSED POSITION. COVERS SHALL BE SINGLE GANG, HORIZONTAL DUPLEX, "IN-USE" APPLICATION IN ACCORDANCE WITH ARTICLE 406 OF THE NATIONAL ELECTRIC CODE AND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



POLE BASE & HANDHOLE DETAIL
SCALE: NOT TO SCALE



TIME-CLOCK & PHOTOCELL CONTROLLED LIGHTING 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

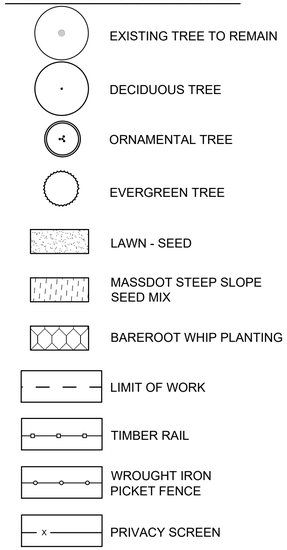
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	97	221
PROJECT FILE NO.	609204		

LANDSCAPE DETAILS

MASTER PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
AR	13	Acer rubrum	Red Maple	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
LS	14	Liquidambar styraciflua	American Sweetgum	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	10	Nyssa sylvatica	Blackgum	2"-2.5" cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
PSE	9	Prunus serotina	Black Cherry	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QP	9	Quercus palustris	Pin Oak	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	12	Quercus rubra	Red Oak	2"-2.5" 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"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV	34	Juniperus virginiana	Eastern Redcedar	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PG	34	Picea glauca	White Spruce	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PS	27	Pinus strobus	Eastern White Pine	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	17	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	5' HT	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	18	Cercis canadensis	Eastern Redbud Multi-trunk	5' HT	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
CI	13	Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	1.5"-2" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
HV	18	Hamamelis virginiana	Common Witch Hazel	5' 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	14	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	#3 cont., 12" spd. min.	36" O.C.	full and rounded, staggered rows
VDB	16	Viburnum dentatum 'Blue Muffin'	Blue Muffin Arrowwood Viburnum	#3 cont., 30" ht. min.	36" O.C.	full and rounded, staggered rows
XS	108	Xanthorhiza simplicissima	Yellowroot	#2 cont.	24" O.C.	full and rounded, staggered rows
ORNAMENTAL GRASSES						
CKF	83	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	#1 cont.	18" O.C.	staggered rows
TREE WHIPS						
AR2	12	Acer rubrum	Red Maple	#2 cont. 2-3'	10' O.C.	
JE	12	Juniperus virginiana	Eastern Redcedar	#2 cont. 2-3'	10' O.C.	
LS2	12	Liquidambar styraciflua	Sweet Gum	#2 cont. 2-3'	10' O.C.	
NS2	12	Nyssa sylvatica	Tupelo	#2 cont. 2-3'	10' O.C.	
PS3	12	Pinus strobus	White Pine	#2 cont. 2-3'	10' O.C.	
PW	12	Prunus serotina	Black Cherry	#2 cont. 2-3'	10' O.C.	
QP2	12	Quercus palustris	Pin Oak	#2 cont. 2-3'	10' O.C.	
QR2	12	Quercus rubra	Northern Red Oak	#2 cont. 2-3'	10' O.C.	

PLANTING LEGEND



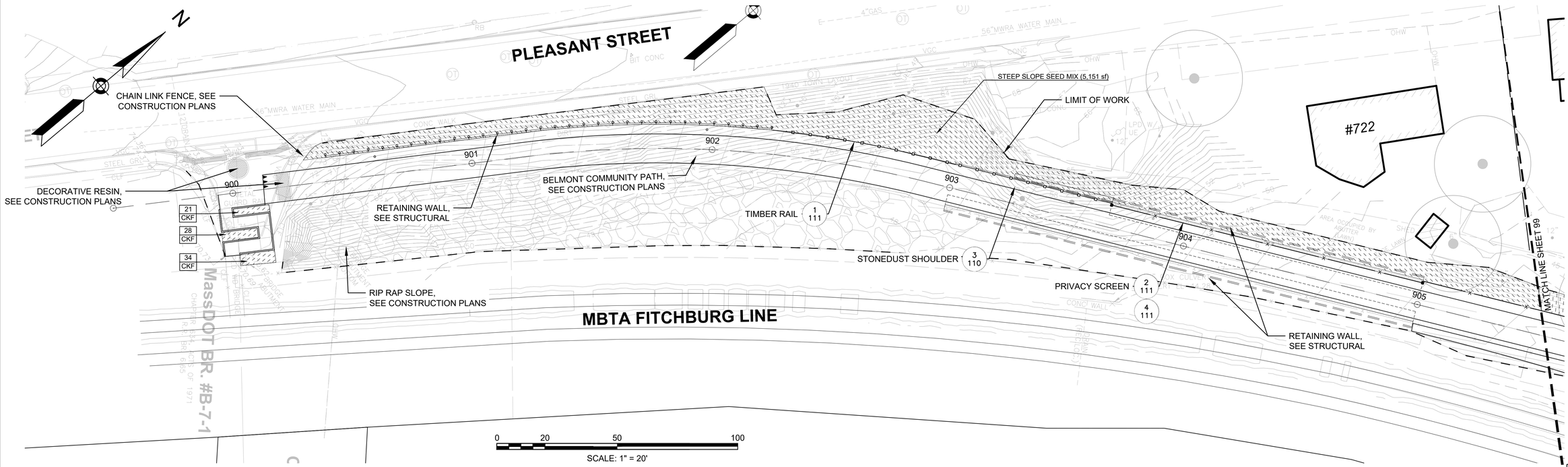
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	98	221
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
ORNAMENTAL GRASSES						
CKF	83	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	#1 cont.	18" O.C.	staggered rows

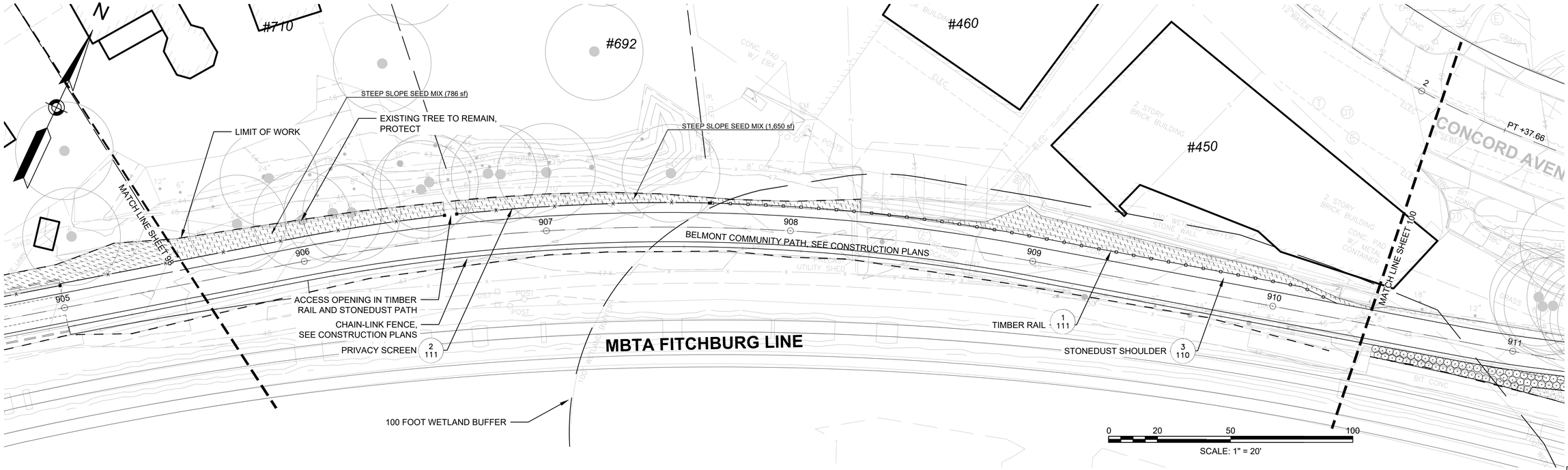
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	99	221
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

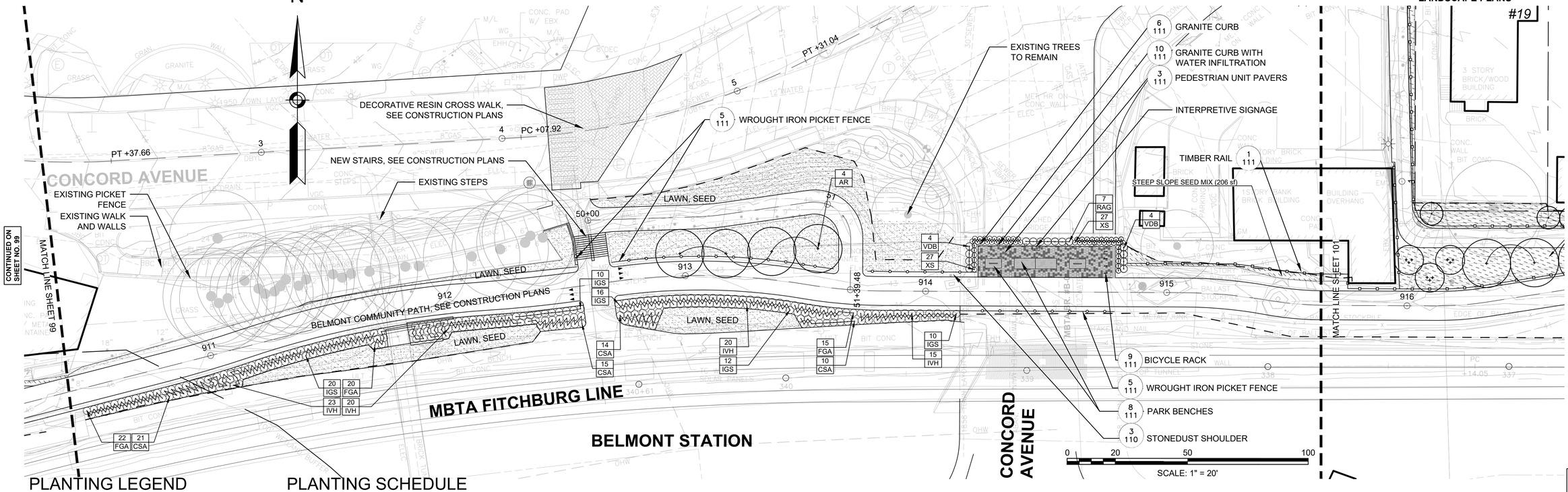
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	100	221
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 (3 111)
- LIMIT OF WORK
- TIMBER RAIL (1 111)
- WROUGHT IRON PICKET FENCE (5 111)
- PARK BENCH, TYPE 1 (8 111)
- PARK BENCH, TYPE 2 (8 111)
- GRANITE CURB WITH WATER INFILTRATION (10 111)

PLANTING SCHEDULE

SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
AR	4	Acer rubrum	Red Maple	2"-2.5" 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	14	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	#3 cont., 12" spd. min.	36" O.C.	full and rounded, staggered rows
VDB	16	Viburnum dentatum 'Blue Muffin'	Blue Muffin Arrowwood Viburnum	#3 cont., 30" ht. min.	36" O.C.	full and rounded, staggered rows
XS	108	Xanthorhiza simplicissima	Yellowroot	#2 cont.	24" O.C.	full and rounded, staggered rows

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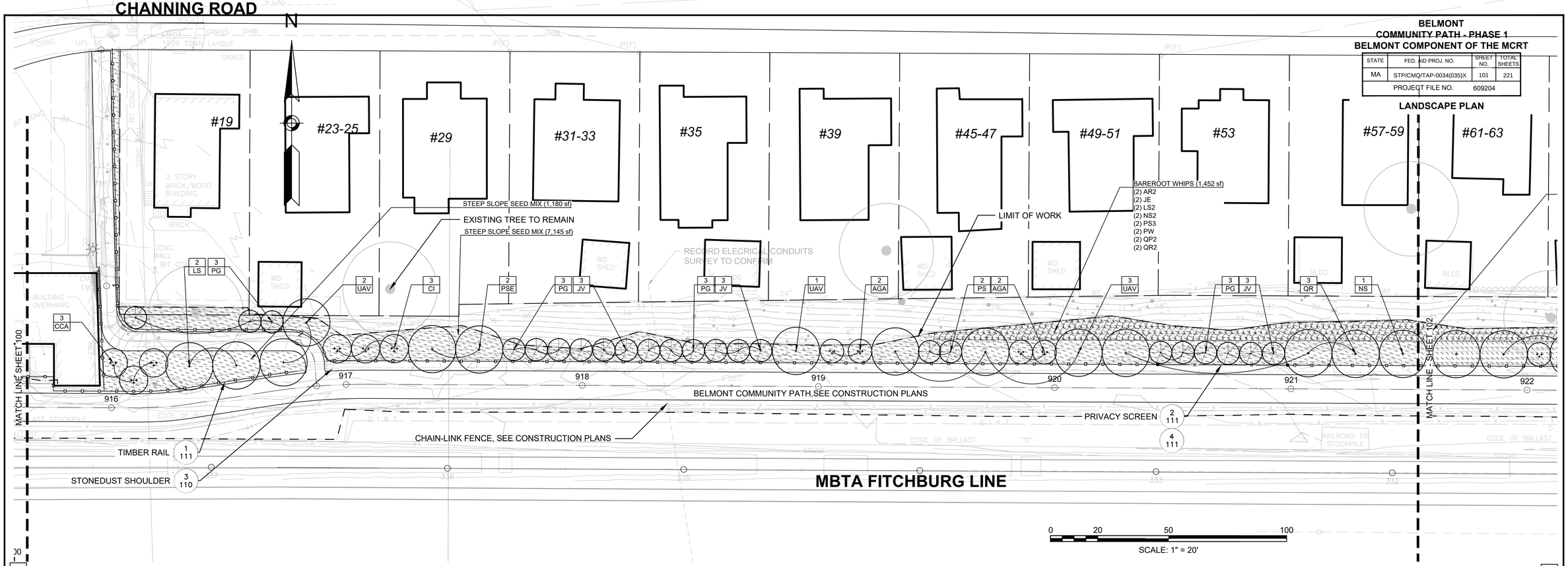
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CHANNING ROAD

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	101	221
PROJECT FILE NO.	609204		

LANDSCAPE PLAN



0 20 50 100

SCALE: 1" = 20'

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"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	1	Nyssa sylvatica	Blackgum	2"-2.5" cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
PSE	2	Prunus serotina	Black Cherry	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	3	Quercus rubra	Red Oak	2"-2.5" 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"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV	9	Juniperus virginiana	Eastern Redcedar	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PG	12	Picea glauca	White Spruce	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PS	2	Pinus strobus	Eastern White Pine	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	4	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	5' HT	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	3	Cercis canadensis	Eastern Redbud Multi-trunk	5' HT	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
CI	3	Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	1.5"-2" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
TREE WHIPS						
AR2	2	Acer rubrum	Red Maple	#2 cont. 2-3'	10' O.C.	
JE	2	Juniperus virginiana	Eastern Redcedar	#2 cont. 2-3'	10' O.C.	
LS2	2	Liquidambar styraciflua	Sweet Gum	#2 cont. 2-3'	10' O.C.	
NS2	2	Nyssa sylvatica	Tupelo	#2 cont. 2-3'	10' O.C.	
PS3	2	Pinus strobus	White Pine	#2 cont. 2-3'	10' O.C.	
PW	2	Prunus serotina	Black Cherry	#2 cont. 2-3'	10' O.C.	
QP2	2	Quercus palustris	Pin Oak	#2 cont. 2-3'	10' O.C.	
QR2	2	Quercus rubra	Northern Red Oak	#2 cont. 2-3'	10' O.C.	

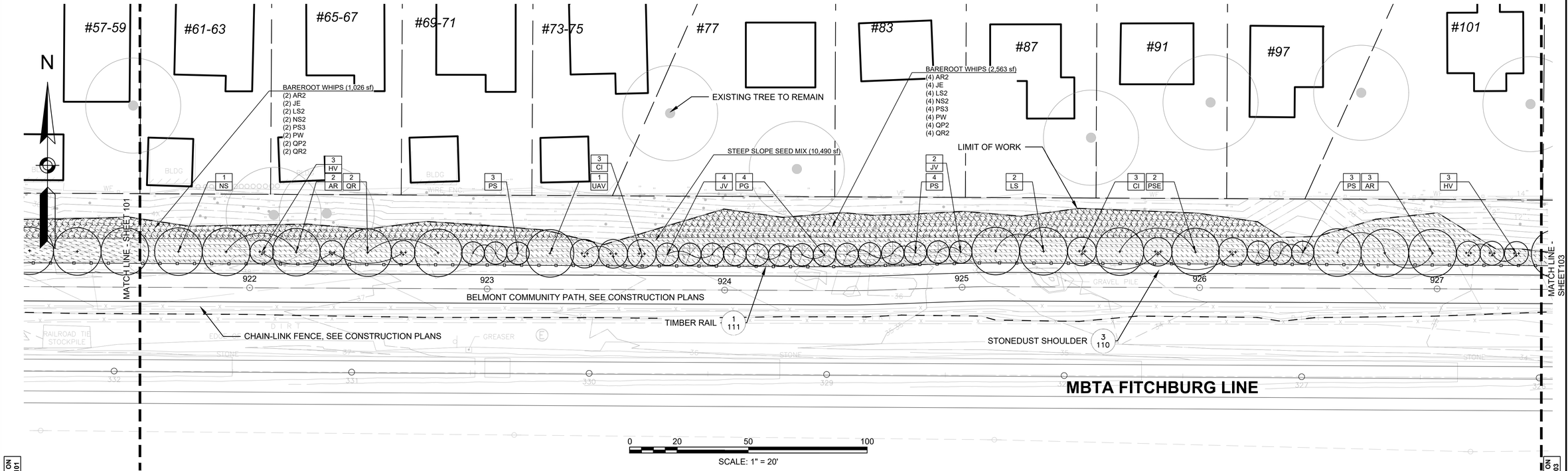
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	102	221
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"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
LS	2	Liquidambar styraciflua	American Sweetgum	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	1	Nyssa sylvatica	Blackgum	2"-2.5" cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
PSE	2	Prunus serotina	Black Cherry	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	2	Quercus rubra	Red Oak	2"-2.5" 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"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV	6	Juniperus virginiana	Eastern Redcedar	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PG	4	Picea glauca	White Spruce	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PS	10	Pinus strobus	Eastern White Pine	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
CI	6	Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	1.5"-2" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
HV	6	Hamamelis virginiana	Common Witch Hazel	5' HT	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
TREE WHIPS						
AR2	6	Acer rubrum	Red Maple	#2 cont. 2-3'	10' O.C.	
JE	6	Juniperus virginiana	Eastern Redcedar	#2 cont. 2-3'	10' O.C.	
LS2	6	Liquidambar styraciflua	Sweet Gum	#2 cont. 2-3'	10' O.C.	
NS2	6	Nyssa sylvatica	Tupelo	#2 cont. 2-3'	10' O.C.	
PS3	6	Pinus strobus	White Pine	#2 cont. 2-3'	10' O.C.	
PW	6	Prunus serotina	Black Cherry	#2 cont. 2-3'	10' O.C.	
QP2	6	Quercus palustris	Pin Oak	#2 cont. 2-3'	10' O.C.	
QR2	6	Quercus rubra	Northern Red Oak	#2 cont. 2-3'	10' O.C.	

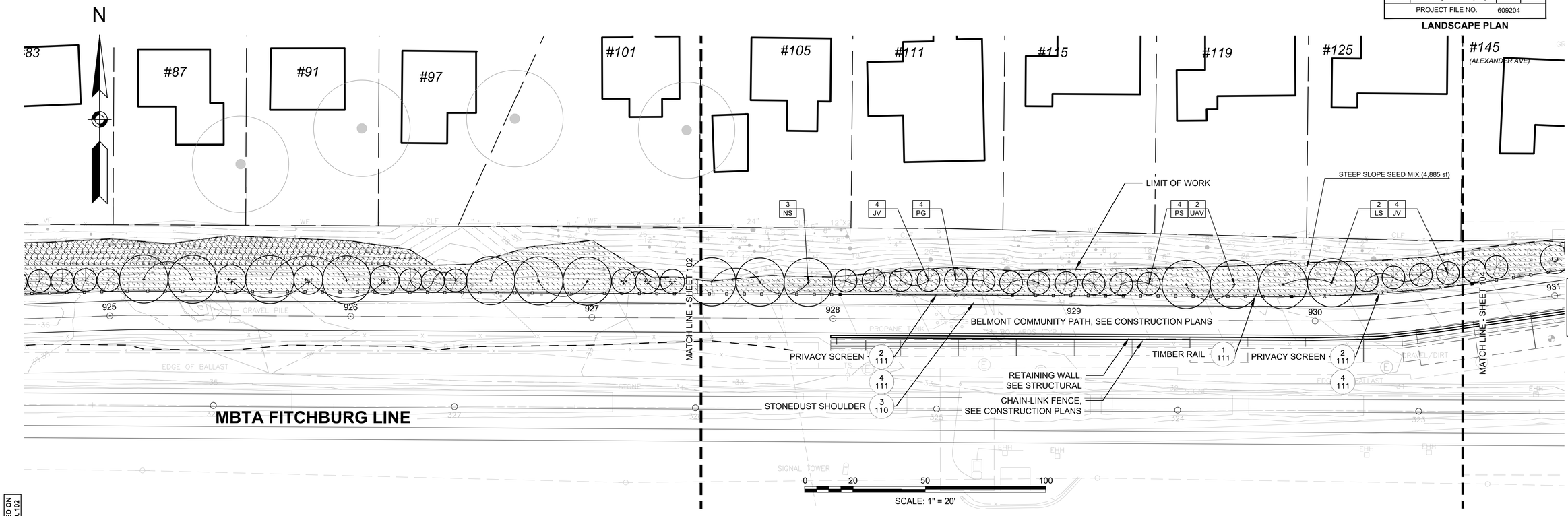
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	103	221
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"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	3	Nyssa sylvatica	Blackgum	2"-2.5" cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
UAV	2	Ulmus americana 'Valley Forge'	Valley Forge American Elm	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV	8	Juniperus virginiana	Eastern Redcedar	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PG	4	Picea glauca	White Spruce	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PS	4	Pinus strobus	Eastern White Pine	5-6' ht.	AS SHOWN	B&B, full to the ground, matched

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	104	221
PROJECT FILE NO.	609204		

LANDSCAPE PLAN

Plotted on Sep-26 3:03 PM
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N

CHANNING ROAD

ALEXANDER AVE

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

MATCH LINE - SHEET 103

CONTINUED ON SHEET NO. 103

MATCH LINE - SHEET 105

CONTINUED ON SHEET NO.105

SEED LAWN 2 110
TIMBER RAIL 1 111
2 CI
3 HV
2 110 SEED LAWN
2 111 PRIVACY SCREEN
4 111
2 QP
3 PG
1 CCA
1 PSE
2 PS
1 CCA
LIMIT OF WORK
DECORATIVE RESIN , SEE CONSTRUCTION PLANS
4 AGA
STEEP SLOPE SEED MIX (863 sf)
RETAINING WALL, SEE STRUCTURAL
RETAINING WALL, SEE STRUCTURAL
BENCHMARK: SQ-CUT ON CONCRETE PAD CORNER EL=29.96'
C=12.36
PT +201.64
501 PT +05.61
PC +77.76
PT +85.93
502
PC +02.39
PT +30.56
933+77.76
931
932
933
934 BELMONT COMMUNITY PATH - SEE CONSTRUCTION PLANS
935
930
1 111 TIMBER RAIL
3 110 STONEDUST SHOULDER
2 110 SEED LAWN
CHAIN-LINK FENCE AND RETAINING WALL, SEE CONSTRUCTION PLANS AND STRUCTURAL
NEW ALEXANDER AVENUE UNDERPASS, SEE CONSTRUCTION PLANS
503
PC +06.78
PT +32.95
503+37
PC +75.99
504
504+02.44
T +18.43

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

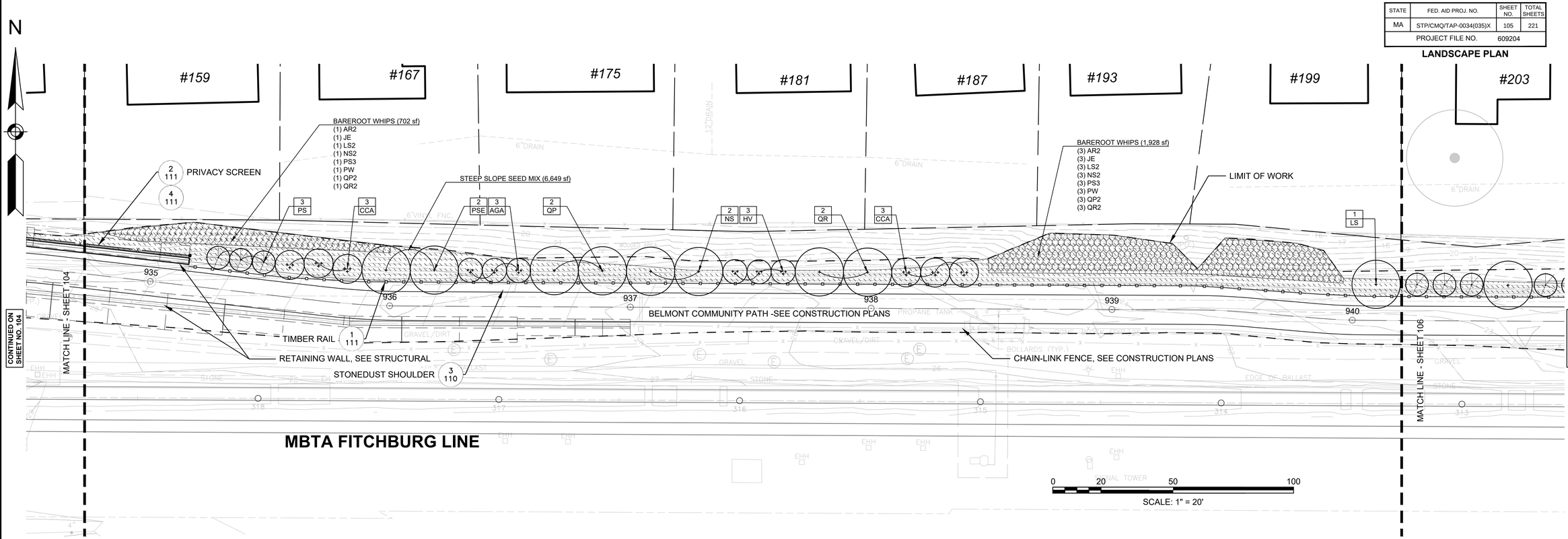
SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
PSE	1	Prunus serotina	Black Cherry	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QP	2	Quercus palustris	Pin Oak	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
PG	3	Picea glauca	White Spruce	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PS	2	Pinus strobus	Eastern White Pine	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	4	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	5' HT	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	2	Cercis canadensis	Eastern Redbud Multi-trunk	5' HT	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
CI	2	Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	1.5"-2" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
HV	3	Hamamelis virginiana	Common Witch Hazel	5' HT	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches

BELMONT MIDDLE AND HIGH SCHOOL

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	105	221
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

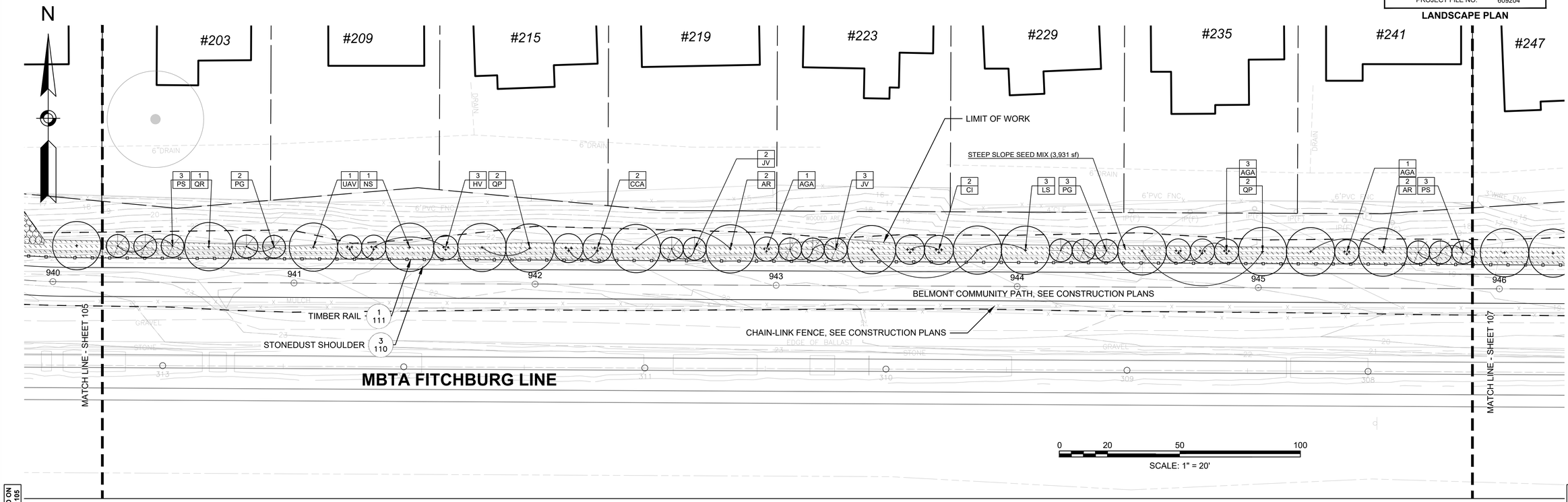
SYM	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREES						
LS	1	Liquidambar styraciflua	American Sweetgum	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	2	Nyssa sylvatica	Blackgum	2"-2.5" cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
PSE	2	Prunus serotina	Black Cherry	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QP	2	Quercus palustris	Pin Oak	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	2	Quercus rubra	Red Oak	2"-2.5" 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	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	3	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	5' HT	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	6	Cercis canadensis	Eastern Redbud Multi-trunk	5' HT	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
HV	3	Hamamelis virginiana	Common Witch Hazel	5' HT	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
TREE WHIPS						
AR2	4	Acer rubrum	Red Maple	#2 cont. 2-3'	10' O.C.	
JE	4	Juniperus virginiana	Eastern Redcedar	#2 cont. 2-3'	10' O.C.	
LS2	4	Liquidambar styraciflua	Sweet Gum	#2 cont. 2-3'	10' O.C.	
NS2	4	Nyssa sylvatica	Tupelo	#2 cont. 2-3'	10' O.C.	
PS3	4	Pinus strobus	White Pine	#2 cont. 2-3'	10' O.C.	
PW	4	Prunus serotina	Black Cherry	#2 cont. 2-3'	10' O.C.	
QP2	4	Quercus palustris	Pin Oak	#2 cont. 2-3'	10' O.C.	
QR2	4	Quercus rubra	Northern Red Oak	#2 cont. 2-3'	10' O.C.	

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609204_HD (BORDER SHEET).DWG Plotted on Sep-26 3:03 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	106	221
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"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
LS	3	Liquidambar styraciflua	American Sweetgum	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	1	Nyssa sylvatica	Blackgum	2"-2.5" cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
QP	4	Quercus palustris	Pin Oak	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	1	Quercus rubra	Red Oak	2"-2.5" 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"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV	5	Juniperus virginiana	Eastern Redcedar	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PG	5	Picea glauca	White Spruce	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PS	6	Pinus strobus	Eastern White Pine	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	5	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	5' HT	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	2	Cercis canadensis	Eastern Redbud Multi-trunk	5' HT	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
CI	2	Crataegus crus-galli inermis	Thornless Cockspur Hawthorn	1.5"-2" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
HV	3	Hamamelis virginiana	Common Witch Hazel	5' HT	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches

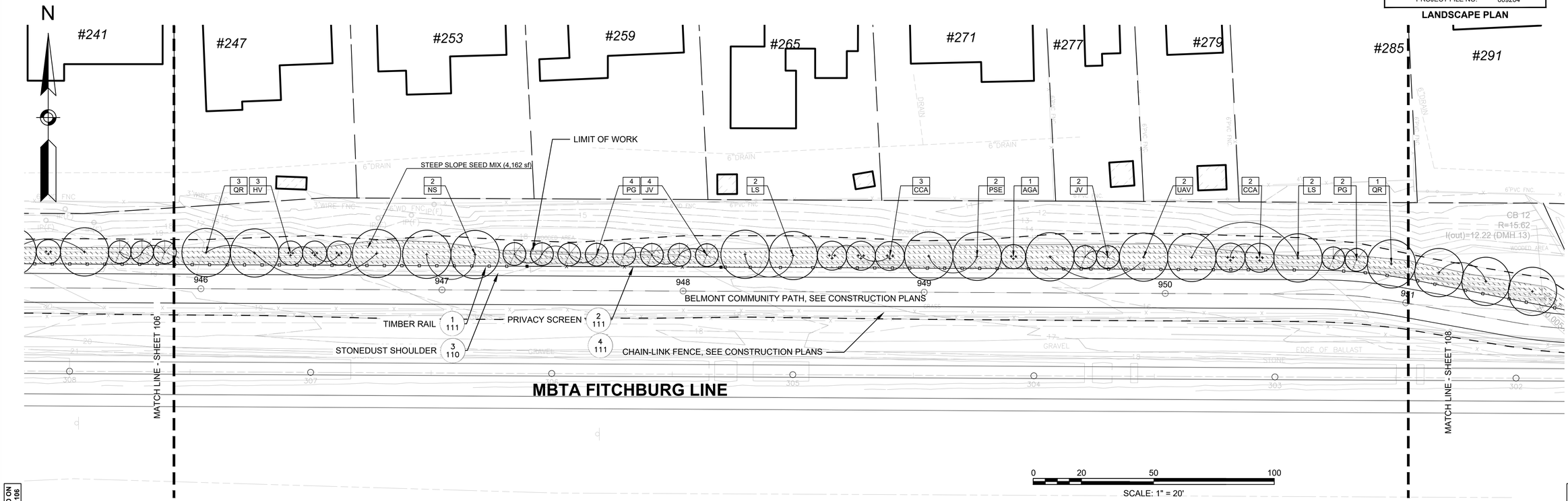
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	107	221
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"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
NS	2	Nyssa sylvatica	Blackgum	2"-2.5" cal.	AS SHOWN	Container, single stem, matched, straight central leader, full branches
PSE	2	Prunus serotina	Black Cherry	2"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
QR	4	Quercus rubra	Red Oak	2"-2.5" 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"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'
EVERGREEN TREES						
JV	6	Juniperus virginiana	Eastern Redcedar	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
PG	6	Picea glauca	White Spruce	5-6' ht.	AS SHOWN	B&B, full to the ground, matched
ORNAMENTAL TREES						
AGA	1	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	5' HT	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches
CCA	5	Cercis canadensis	Eastern Redbud Multi-trunk	5' HT	AS SHOWN	B&B, single stem, matched, straight central leader, full branches
HV	3	Hamamelis virginiana	Common Witch Hazel	5' HT	AS SHOWN	B&B, multi-stem, 3-4 evenly-sized main trunks, full branches

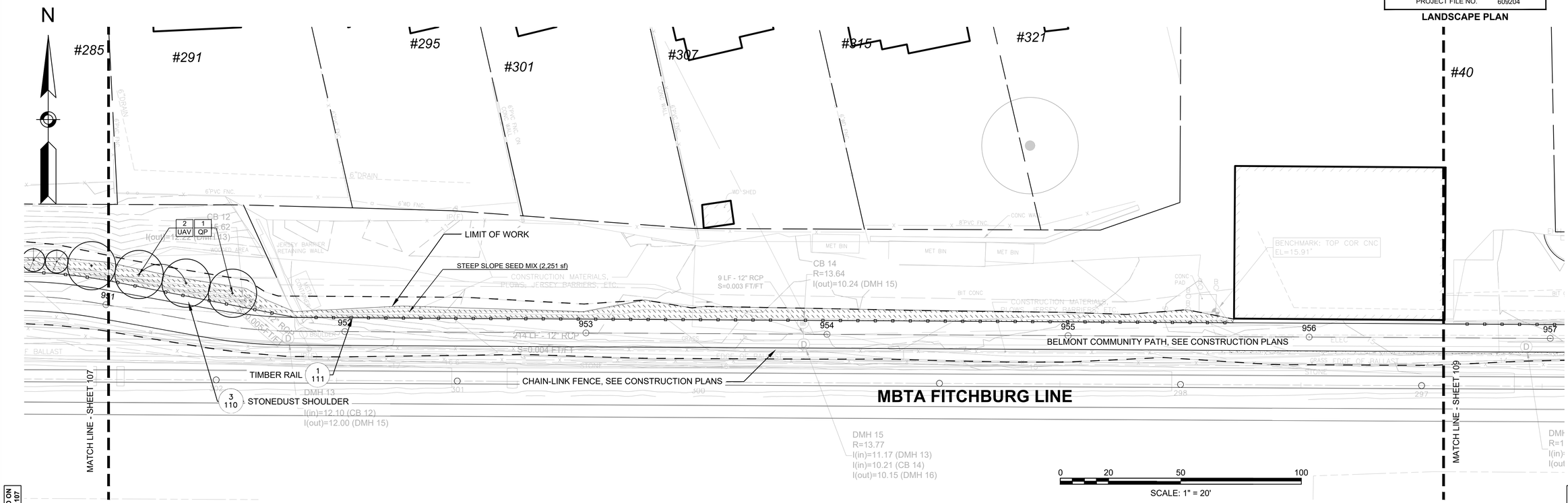
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	108	221
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						
QP	1	Quercus palustris	Pin Oak	2"-2.5" 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"-2.5" cal.	AS SHOWN	B&B, single stem, matched, straight central leader, full branches, limb to 7'

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	109	221
PROJECT FILE NO.	609204		

LANDSCAPE PLAN

N

#40

MATCH LINE - SHEET 108

CONTINUED ON SHEET NO. 108

BRIGHTON STREET

FITCHBURG CUTOFF

MBTA FITCHBURG LINE

DECORATIVE RESIN, SEE CONSTRUCTION PLANS

BELMONT COMMUNITY PATH, SEE CONSTRUCTION PLANS

TIMBER RAIL (1 / 111)

CHAIN-LINK FENCE, SEE CONSTRUCTION PLANS

EX DMH 2
R=12.37
I(in)=8.70 (DMH 17)

DMH 17
R=12.47
I(in)=8.95 (DMH 16)
I(out)=8.90 (EX DMH 2)

DMH 16
R=15.30
I(in)=9.35 (DMH 15)
I(out)=9.30 (DMH 17)

2 STORY CONCRETE BUILDING

CONC. PAD

957 958 959 960 961

297 296 295 294 293 292 291

0 20 50 100

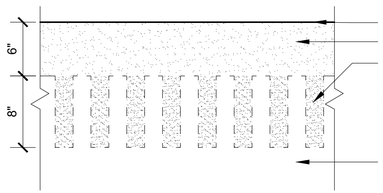
SCALE: 1" = 20'

PLANTING LEGEND

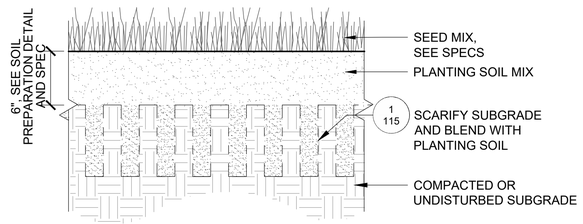
- EXISTING TREE TO REMAIN
- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAWN - SEED (2 / 110)
- MASSDOT STEEP SLOPE SEED MIX
- BAREROOT WHIP PLANTING
- LIMIT OF WORK
- TIMBER RAIL (1 / 111)
- WROUGHT IRON PICKET FENCE (5 / 111)
- PRIVACY SCREEN (2 / 111)

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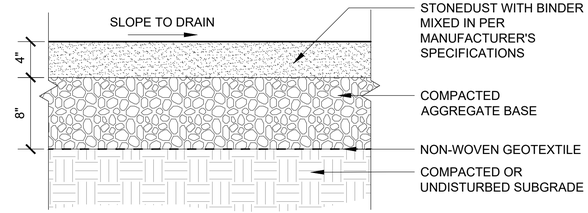
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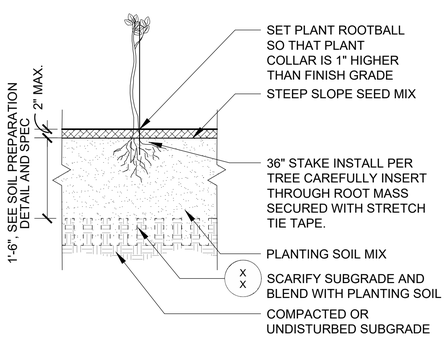
1 SOIL PREPARATION
1 1/2" = 1'–0"



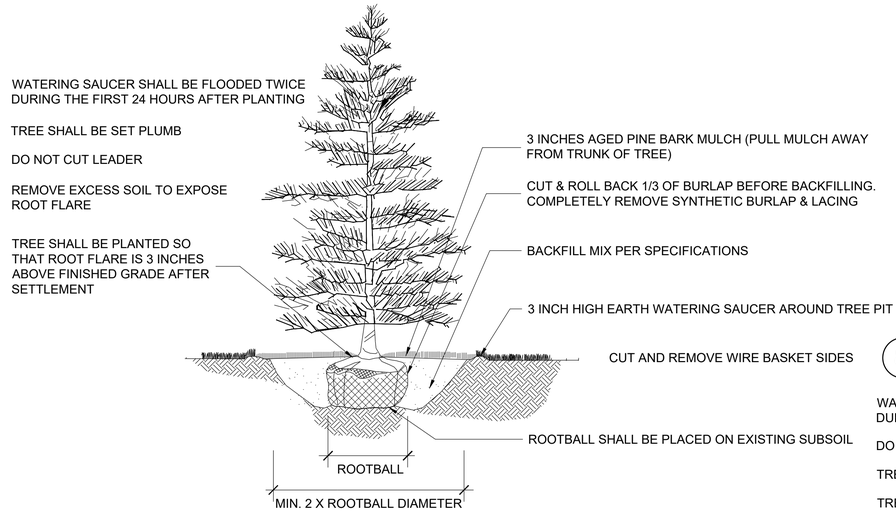
2 SEEDED LAWN
1 1/2" = 1'–0"



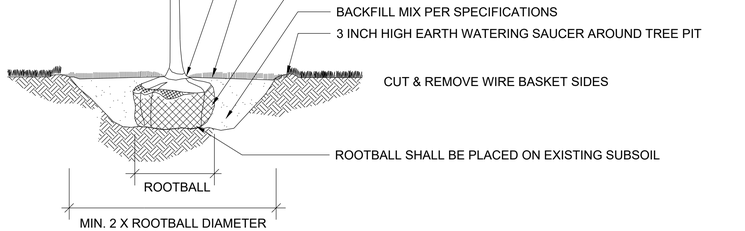
3 STONEDUST SHOULDER
1 1/2" = 1'–0"



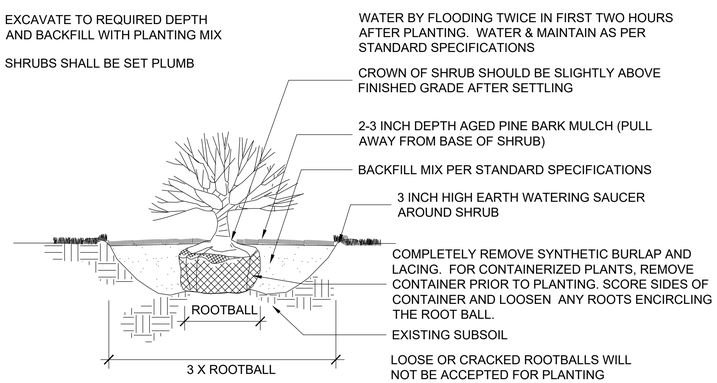
4 BARE ROOT WHIP
3/4" = 1'–0"



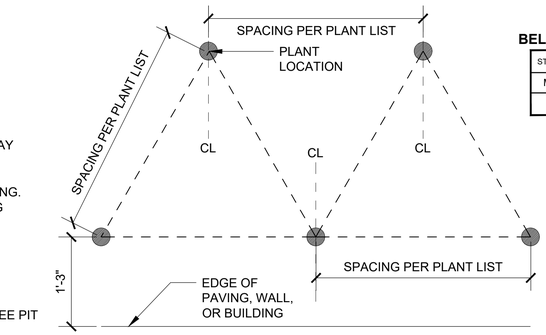
5 EVERGREEN TREE PLANTING
N.T.S



6 DECIDUOUS TREE PLANTING
N.T.S.



7 SHRUB PLANTING
N.T.S.

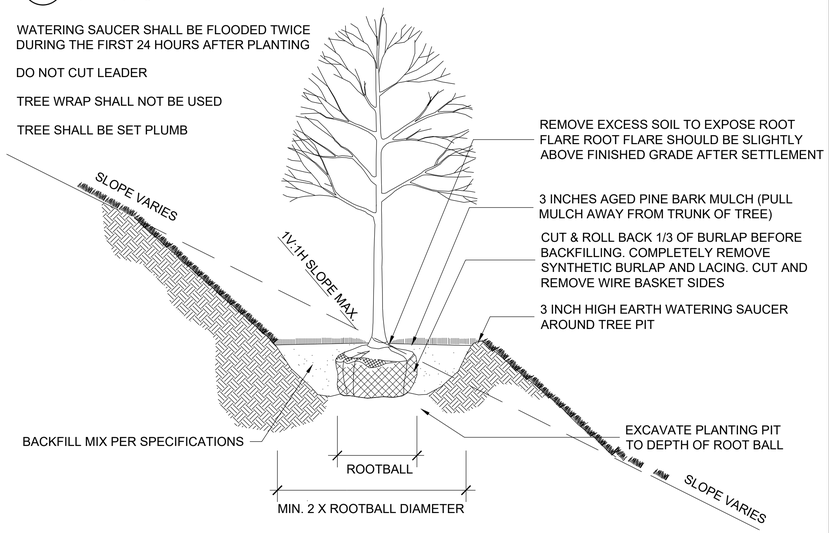


BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

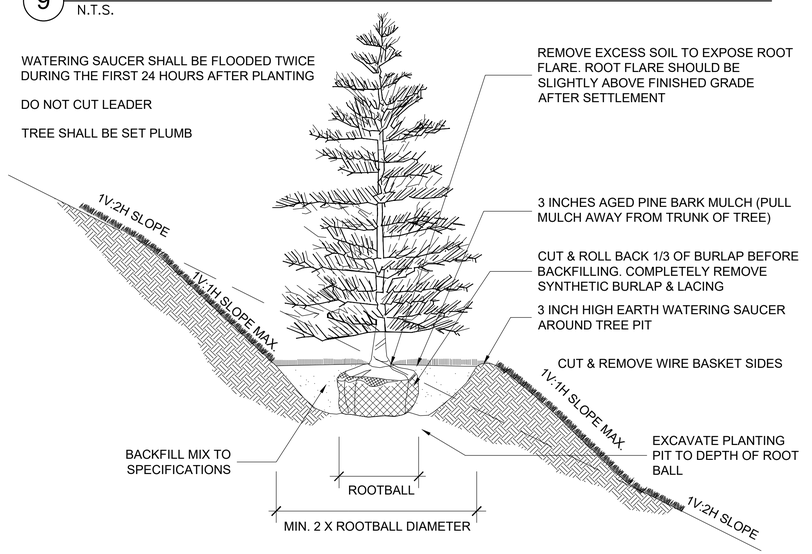
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	110	221
PROJECT FILE NO.	609204		

LANDSCAPE DETAILS

PLANT SPACING:	# OF PLANTS / SF
8"	2.6
12"	1.15
15"	.733
18"	.512
36"	.128
48"	.0725



8 PLANTING DIAGRAM
1" = 1'–0"



9 DECIDUOUS PLANTING ON A SLOPE
N.T.S.

10 EVERGREEN PLANTING ON A SLOPE
N.T.S.

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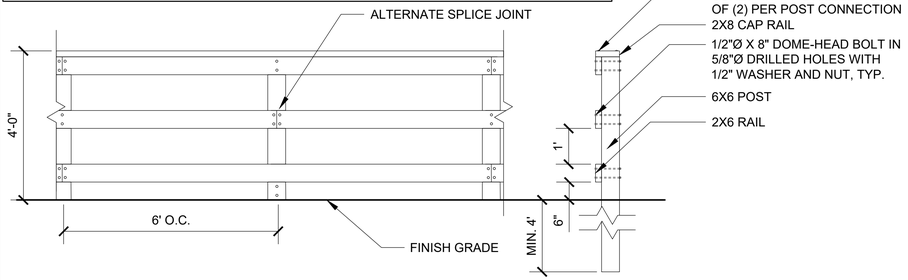
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	111	221
PROJECT FILE NO.	609204		

LANDSCAPE DETAILS

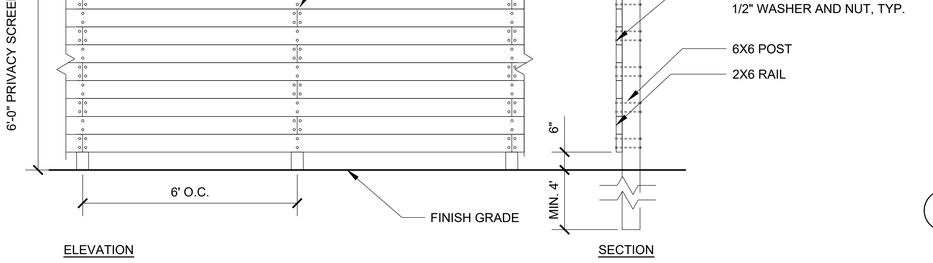
NOTE:
1. ALL WOOD TO BE YELLOW CEDAR.
2. ALL HARDWARE TO BE GALVANIZED
3. MAINTAIN MINIMUM EDGE DISTANCE OF 1" ON ALL DRILLED HOLES
4. SAND AND PREP TOP, BOTTOM, AND INSIDE FACE OF ALL RAIL
5. IF A RAIL TIMBER IS CONTINUOUS OVER A POST ONLY 2 BOLTS ARE REQUIRED TO ATTACH RAIL TO POST. BOLTS INSTALLED 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.



ELEVATION SECTION

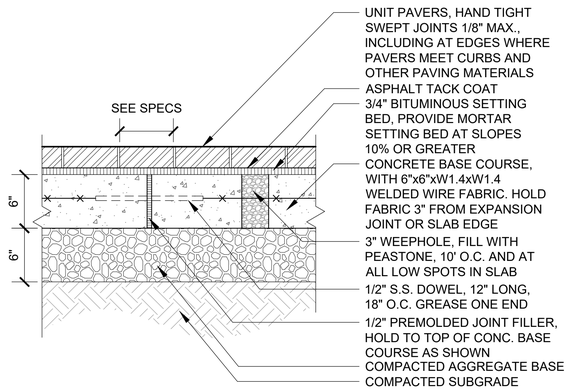
1 TIMBER RAIL
1/2" = 1'-0"

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.



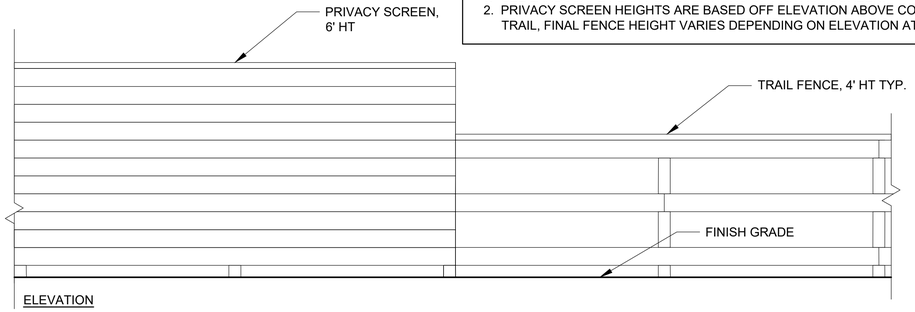
ELEVATION SECTION

2 PRIVACY SCREEN
1/2" = 1'-0"



3 PEDESTRIAN UNIT PAVERS
1 1/2" = 1'-0"

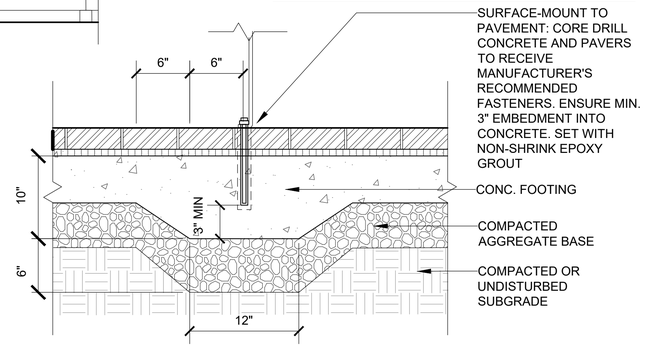
NOTE:
1. SEE LANDSCAPE PLAN FOR LOCATIONS OF PRIVACY SCREEN.
2. PRIVACY SCREEN HEIGHTS ARE BASED OFF ELEVATION ABOVE COMMUNITY TRAIL, FINAL FENCE HEIGHT VARIES DEPENDING ON ELEVATION AT FOOTINGS.



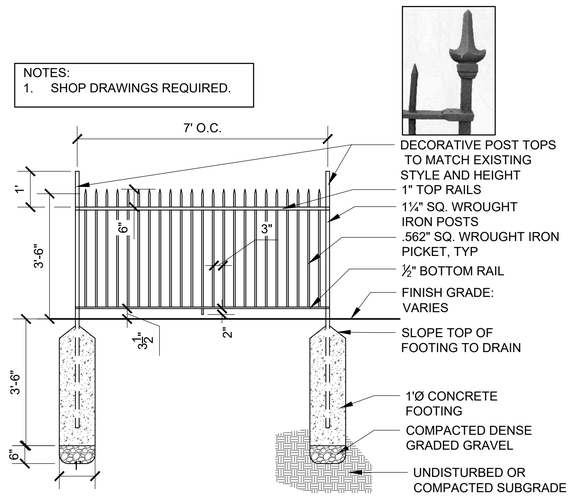
ELEVATION

4 PRIVACY SCREEN TO TIMBER RAILING TRANSITION
1/2" = 1'-0"

NOTE:
1. COORDINATE ANCHOR BOLT LAYOUT, SPACING AND SIZE WITH BENCH MANUFACTURER.
2. COLOR AND FINISH TO BE SELECTED BY LANDSCAPE ARCHITECT FROM MANUFACTURER'S STANDARD COLOR RANGE.

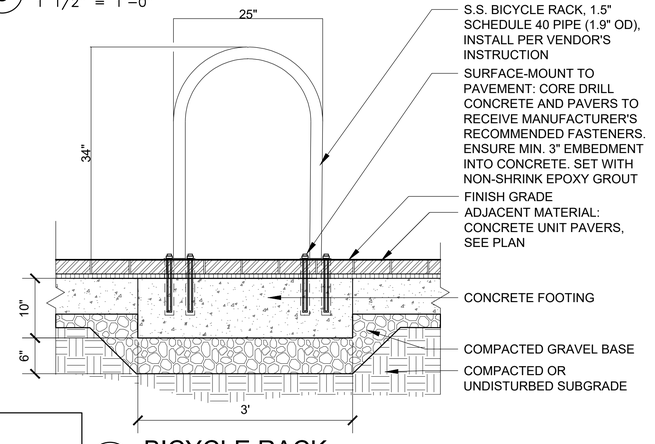


NOTES:
1. SHOP DRAWINGS REQUIRED.

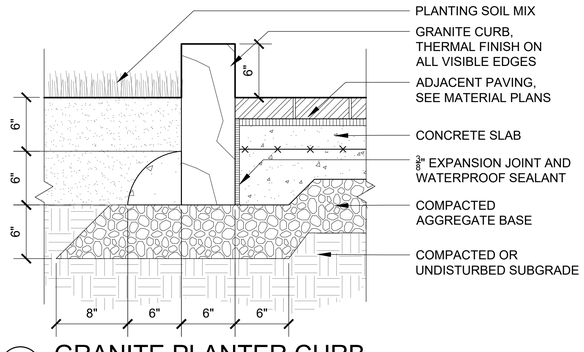


5 WROUGHT IRON PICKET FENCE
1/2" = 1'-0"

8 PARK BENCH
1 1/2" = 1'-0"

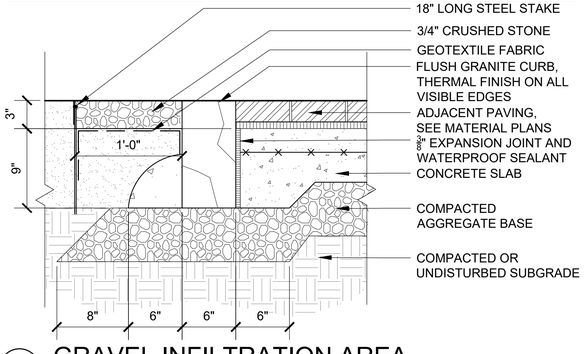


NOTE:
1. SHOP DRAWINGS REQUIRED PRIOR TO INSTALLATION.
2. CURB TO CURB JOINTS TO BE ¾" MORTAR AND TO MATCH COLOR OF GRANITE CURB.



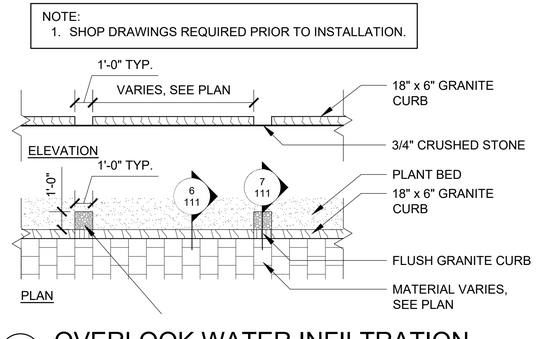
6 GRANITE PLANTER CURB
1 1/2" = 1'-0"

NOTE:
1. SHOP DRAWINGS REQUIRED PRIOR TO INSTALLATION.
2. CURB TO CURB JOINTS TO BE ¾" MORTAR AND TO MATCH COLOR OF GRANITE CURB.



7 GRAVEL INFILTRATION AREA
1 1/2" = 1'-0"

NOTE:
1. SHOP DRAWINGS REQUIRED PRIOR TO INSTALLATION.



PLAN

9 BICYCLE RACK
1" = 1'-0"

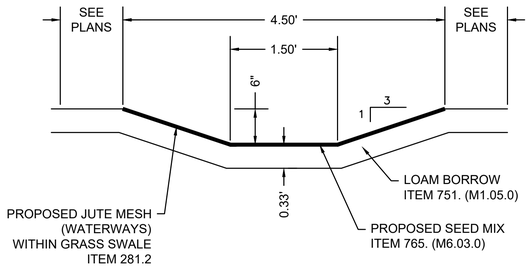
10 OVERLOOK WATER INFILTRATION
1/4" = 1'-0"

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 Sep-26 3:04 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	112	221
PROJECT FILE NO.	609204		

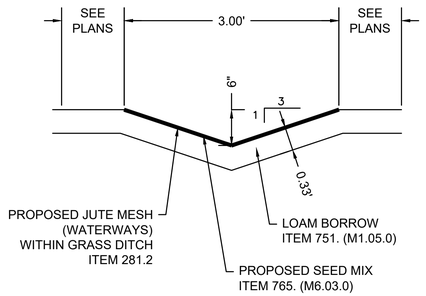
CONSTRUCTION DETAILS



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

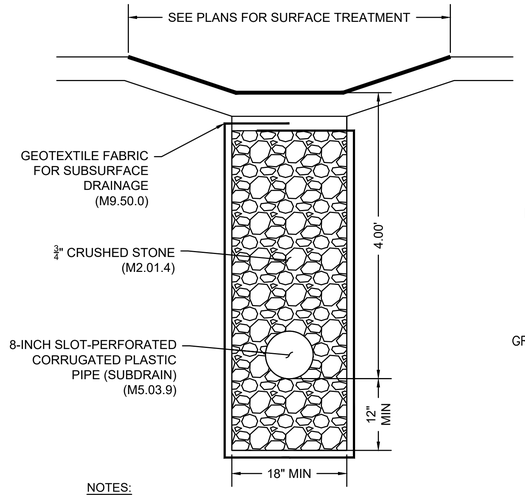
GRASS SWALE
NOT TO SCALE



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

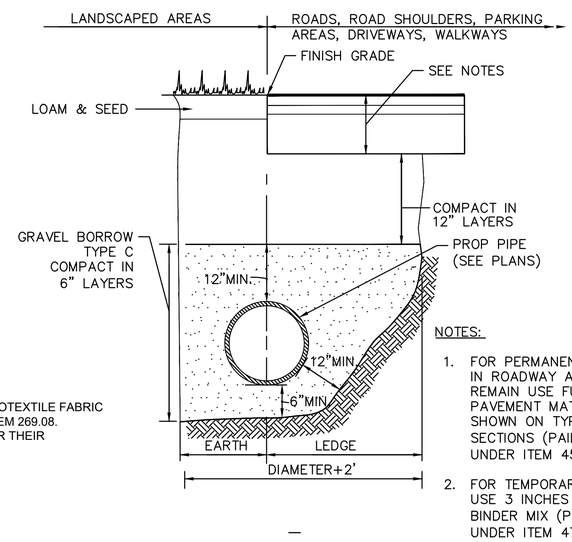
GRASS DITCH
NOT TO SCALE



NOTES:

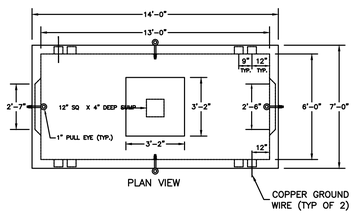
1. EXCAVATION, GRADING, CRUSHED STONE, PERFORATED PIPE, GEOTEXTILE FABRIC SHALL BE INCLUDED FOR MEASUREMENTS AND PAYMENT UNDER ITEM 269.08.
2. SURFACE TREATMENT SHALL BE MEASURED AND PAID FOR UNDER THEIR RESPECTIVE BID ITEMS.

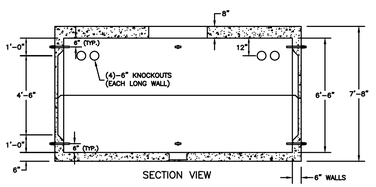
8-INCH SUB-DRAIN
NOT TO SCALE

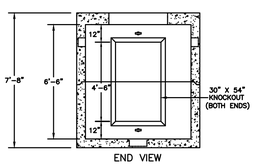


NOTES:

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)



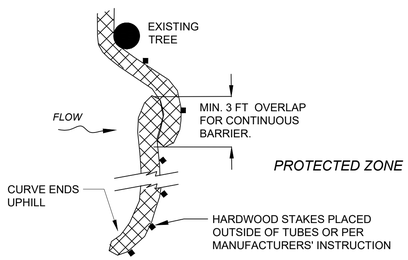




NOTES:

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.

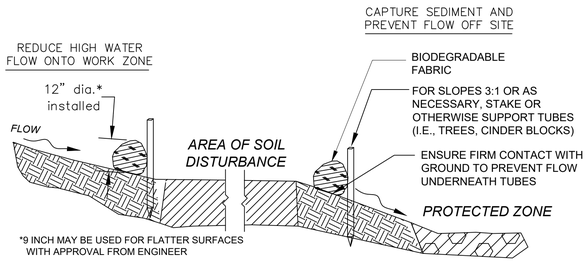
ELECTRIC MANHOLE 6'X13'
NOT TO SCALE



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.

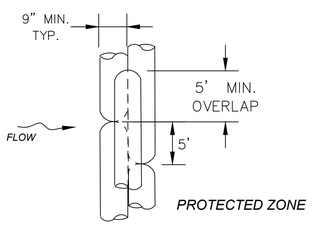
PLAN VIEW



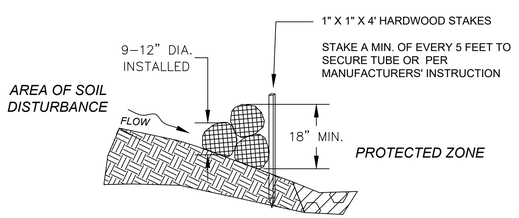
SECTION

SEDIMENT BARRIER - COMPOST FILTER TUBE
NOT TO SCALE

WHERE SPECIFIED ON CONSTRUCTION PLANS OR AS REQUIRED

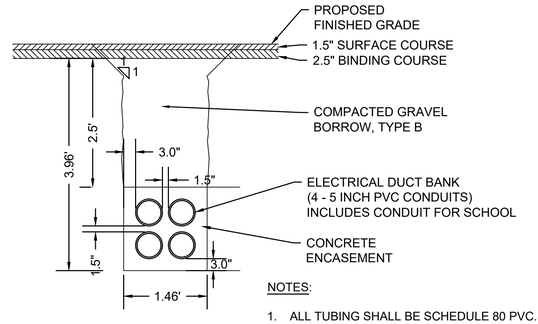


PLAN VIEW



SECTION

COMPOST FILTER TUBES STACKED
NOT TO SCALE

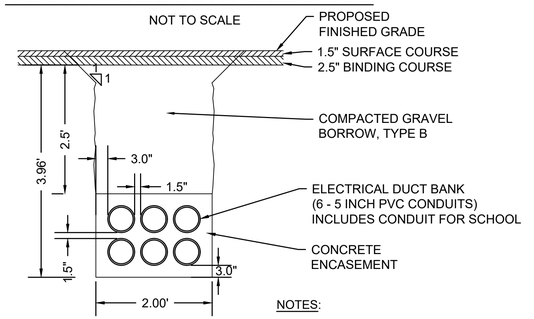


NOTES:

1. ALL TUBING SHALL BE SCHEDULE 80 PVC.
2. REFER TO APPENDIX A IN SPECIAL PROVISIONS.

ELECTRIC TRENCH
4 DUCT - BELMONT ELECTRIC

NOT TO SCALE



NOTES:

1. ALL TUBING SHALL BE SCHEDULE 80 PVC.
2. REFER TO APPENDIX A IN SPECIAL PROVISIONS.

ELECTRIC TRENCH
6 DUCT - BELMONT ELECTRIC

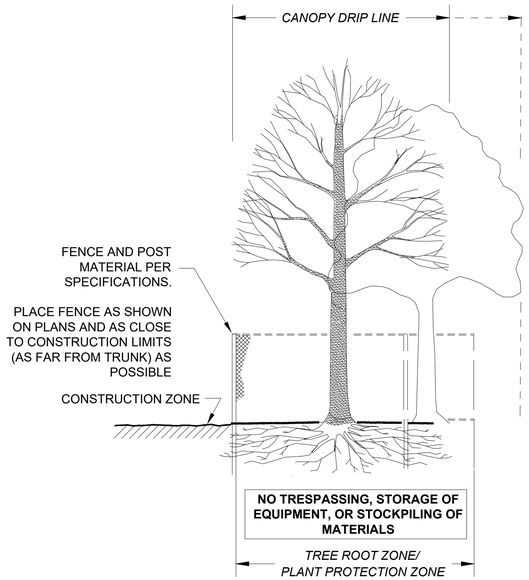
NOT TO SCALE

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(DET).dwg 9/2/2026 11:44 AM
609204_HD(DET).DWG Plotted on Sep-26 11:44 AM

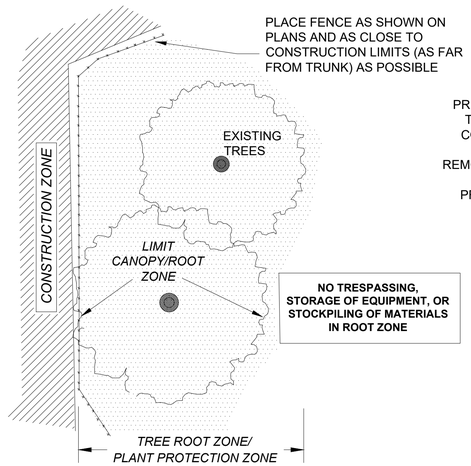
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	113	221
	PROJECT FILE NO. 609204		

CONSTRUCTION DETAILS



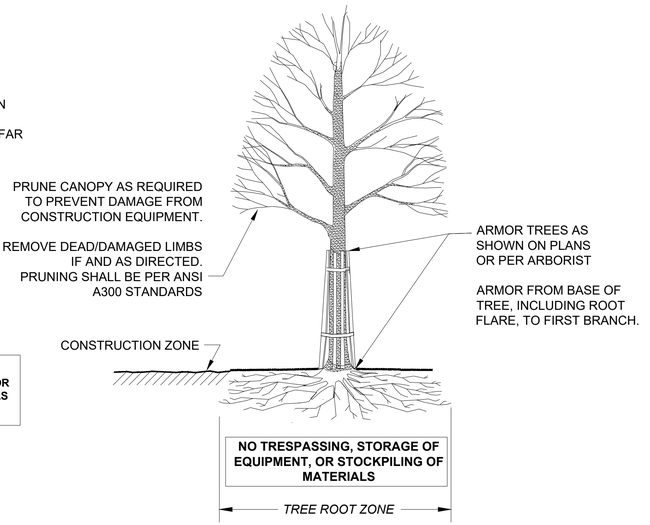
SECTION - FENCE PROTECTION OF ROOT ZONE



PLAN VIEW - FENCE PROTECTION OF ROOT ZONE

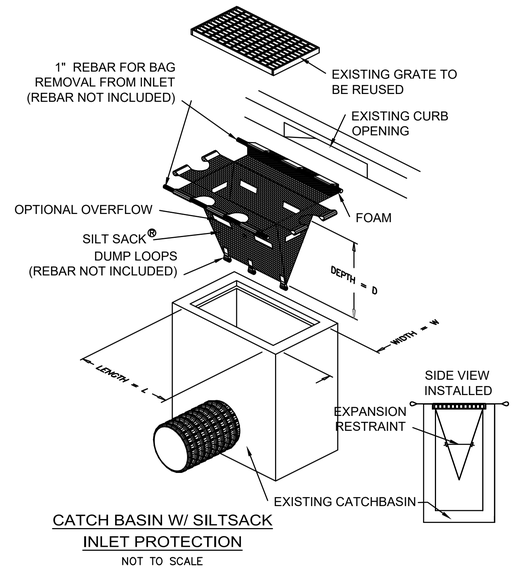
TREE PROTECTION - ROOT ZONE

NOT TO SCALE



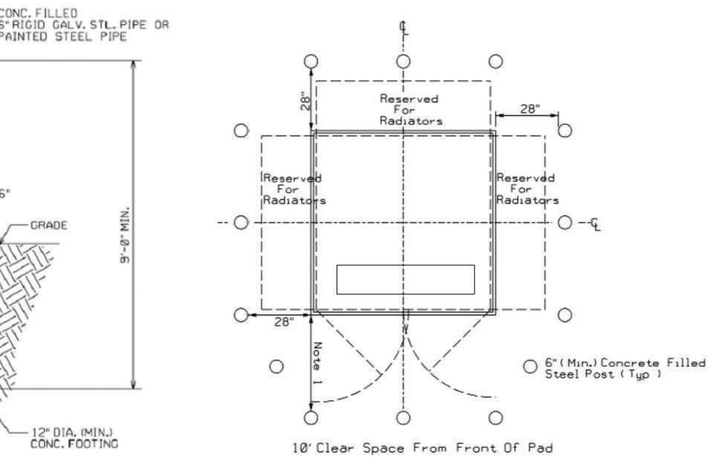
SECTION - TRUNK ARMORING & PRUNING

TREE PROTECTION - TRUNK



CATCH BASIN W/ SILTSACK INLET PROTECTION

NOT TO SCALE

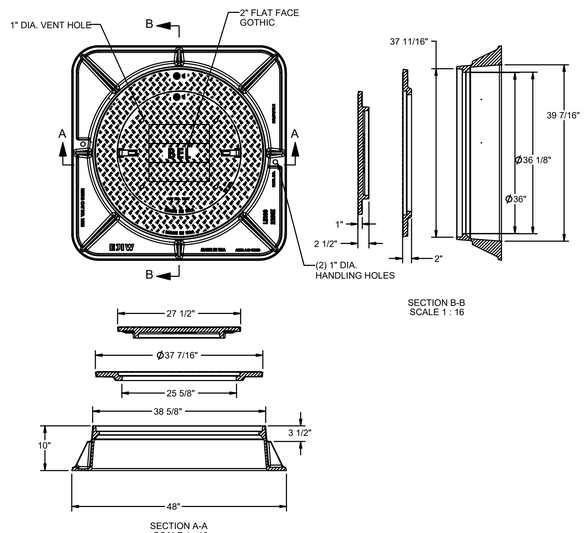


NOTES:
1) Five foot minimum clearance from front of pad
2) Belmont Light engineering shall designate the number and location bollards by marking the above drawing
3) For installations around oil containment curbs, install bollards six feet minimum on all applicable sides.

Bollards Required	●
Bollards Not Required	⊗

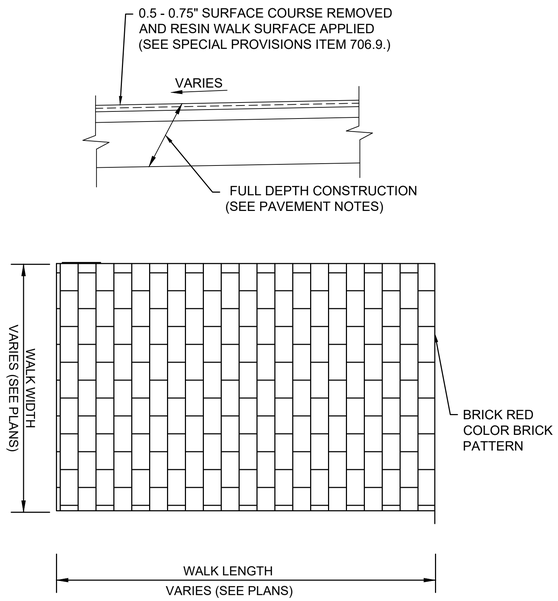
STEEL BOLLARD

NOT TO SCALE



ELECTRIC MANHOLE COVER AND FRAME

NOT TO SCALE



DECORATIVE RESIN WALK

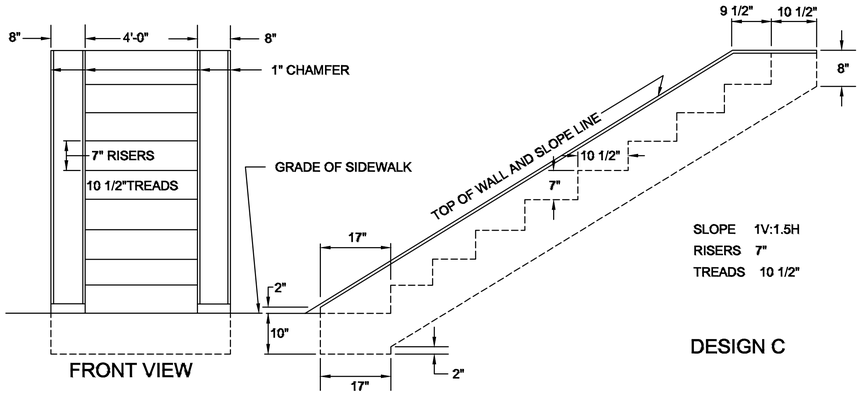
NOT TO SCALE

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609204_HD(DET).DWG Plotted on Sep-26 11:44 AM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	114	221
PROJECT FILE NO.	609204		

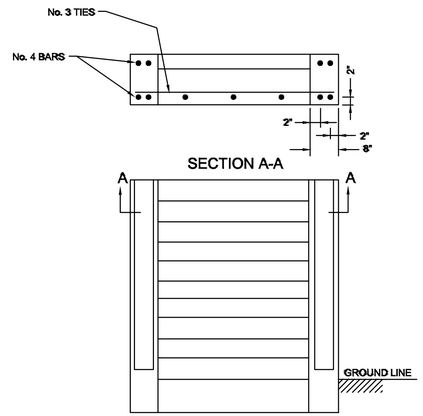
CONSTRUCTION DETAILS



SLOPE 1V:1.5H
RISERS 7"
TREADS 10 1/2"

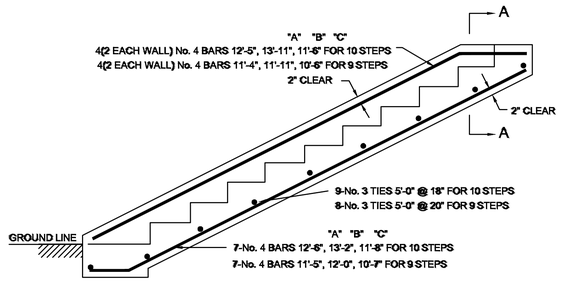
DESIGN C

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.



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



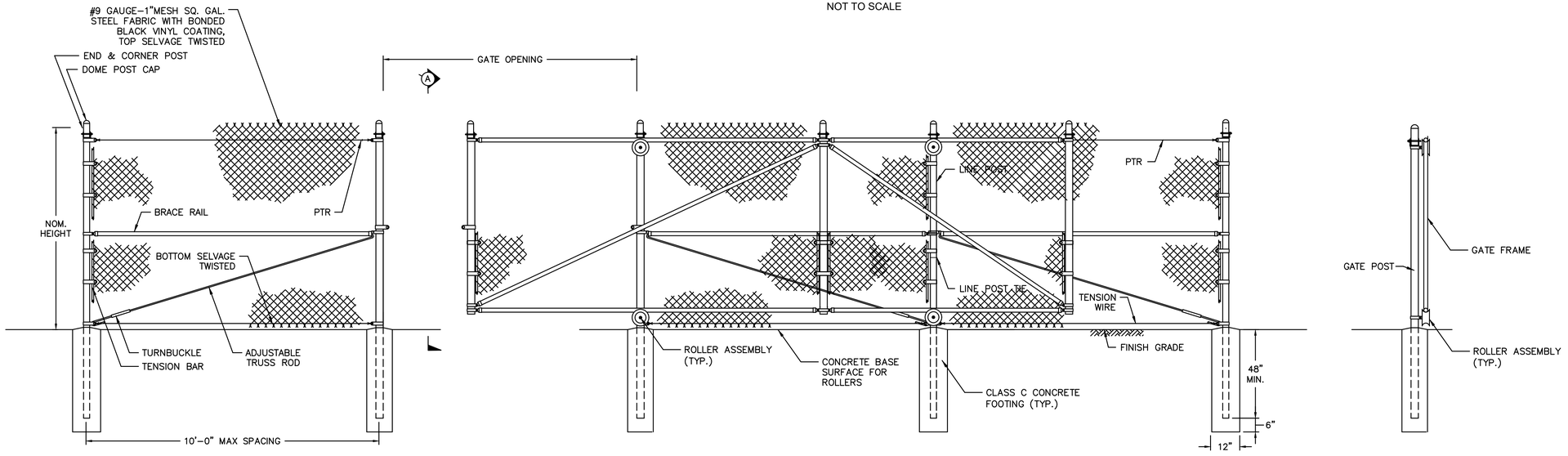
SIDE VIEW

	DESIGN C					
STEP NOS.	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



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.

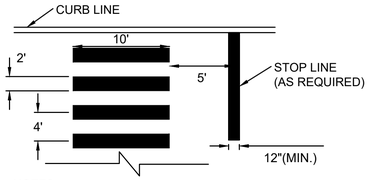
CHAIN LINK FENCE AND SLIDING GATE

NOT TO SCALE

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609204_HD(DET).DWG Plotted on Sep-26 11:44 AM

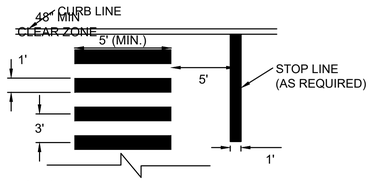
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	115	221
PROJECT FILE NO.	609204		



NOTES:

1. ALL PROPOSED STOP LINES AND CROSSWALKS SHALL BE REFLECTORIZED THERMOPLASTIC.

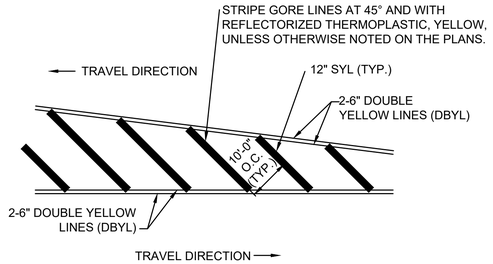
ROADWAY CROSSWALK & STOP LINE
NOT TO SCALE



NOTES:

1. ALL PROPOSED STOP LINES AND CROSSWALKS SHALL BE REFLECTORIZED THERMOPLASTIC.

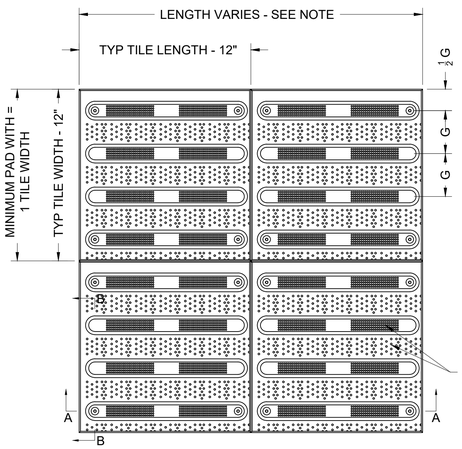
PATH CROSSWALK & STOP LINE
NOT TO SCALE



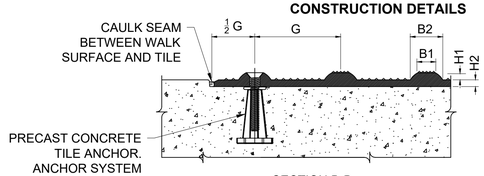
TYPICAL GORE MARKINGS
NOT TO SCALE



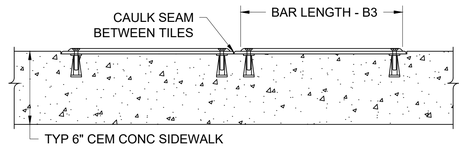
SOLID WHITE YIELD MARKINGS
FOR BIKE LANES
NOT TO SCALE



PLAN



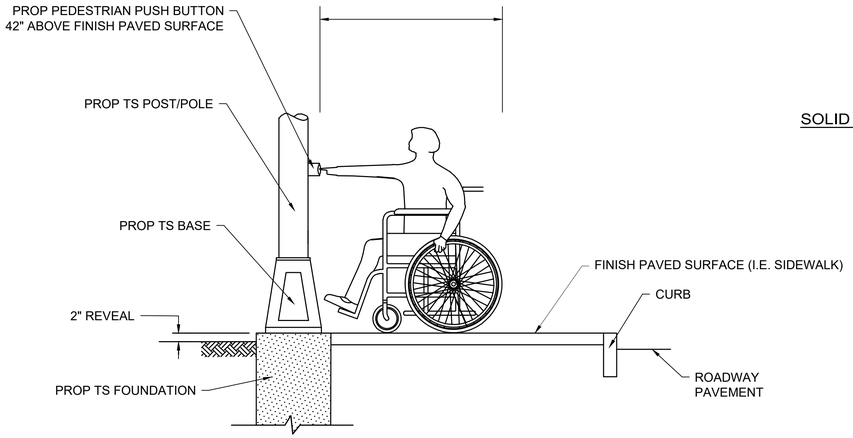
SECTION B-B



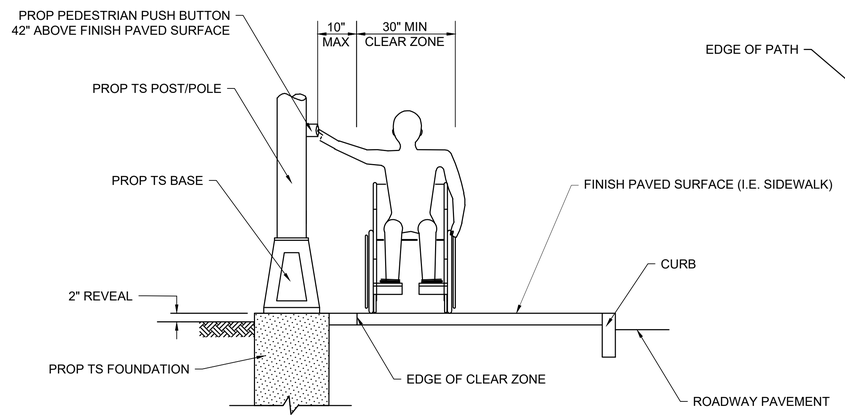
SECTION A-A

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.



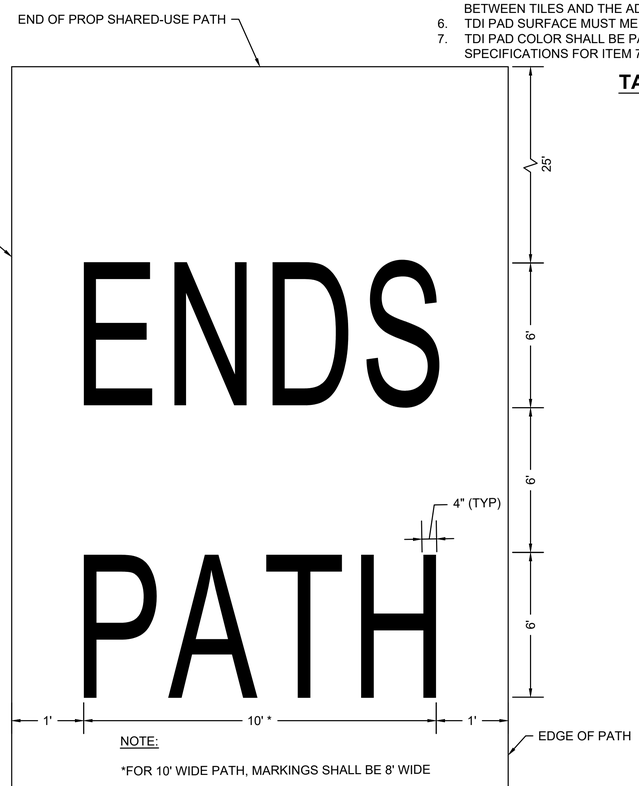
FORWARD APPROACH (SIDE REACH)
NOT TO SCALE



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

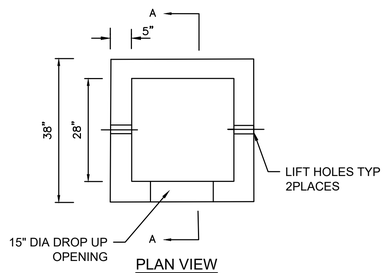


NOTE:
*FOR 10' WIDE PATH, MARKINGS SHALL BE 8' WIDE

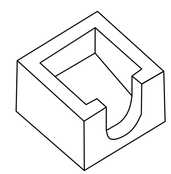
"PATH ENDS" MARKING DETAIL
NOT TO SCALE

TACTILE DIRECTIONAL INDICATORS (TDI) GUIDE PAD DETAIL

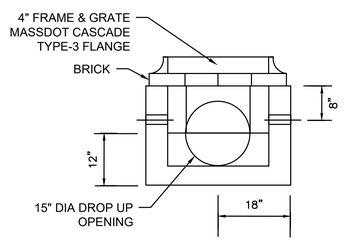
NOT TO SCALE



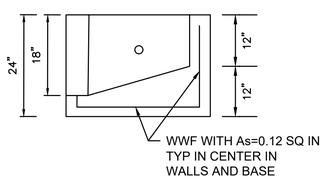
PLAN VIEW



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

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(DET).dwg 9/2/2026 11:44 AM

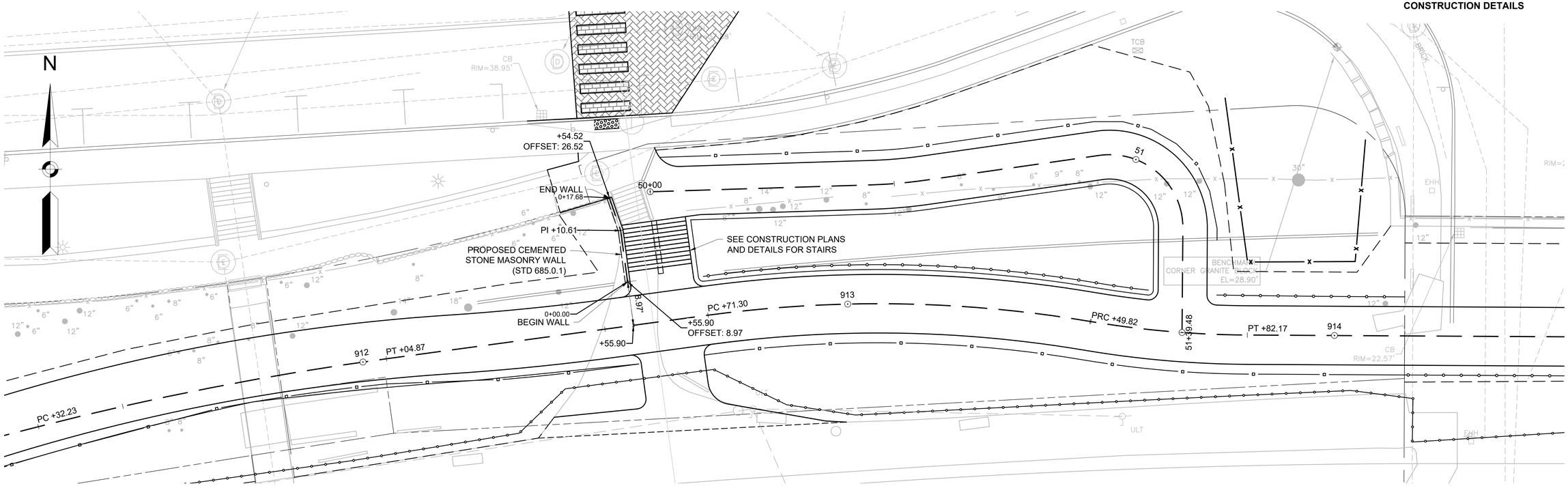
609204_HD(DET).DWG Plotted on Sep-26 11:44 AM

BELMONT STATION - PROPOSED WALL DETAIL AND PROFILE

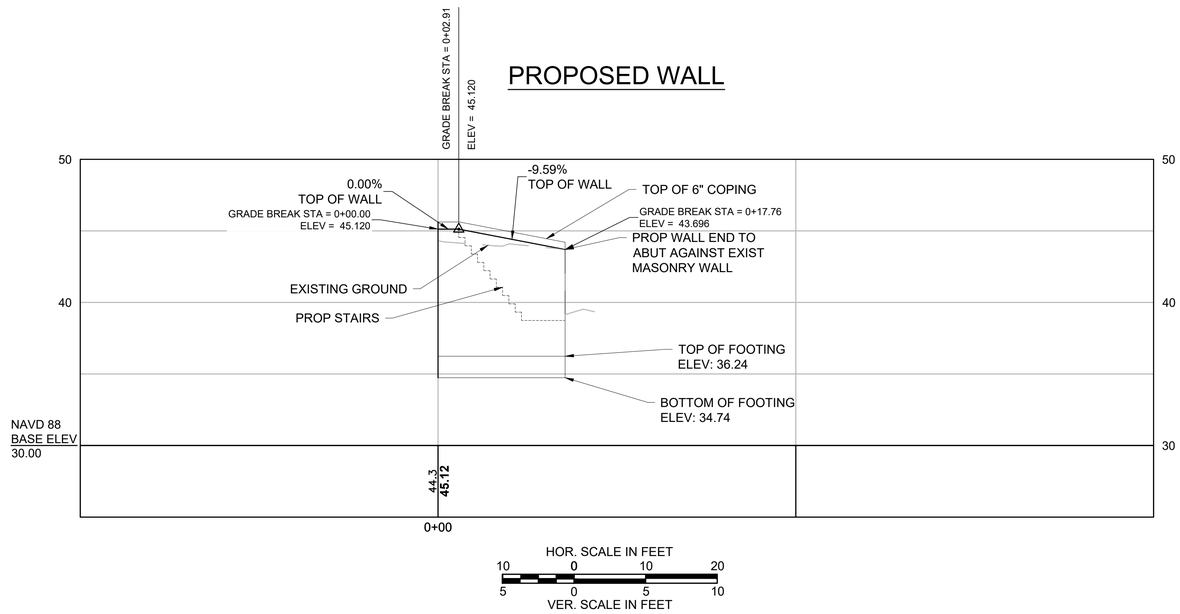
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	116	221
PROJECT FILE NO.	609204		

CONSTRUCTION DETAILS

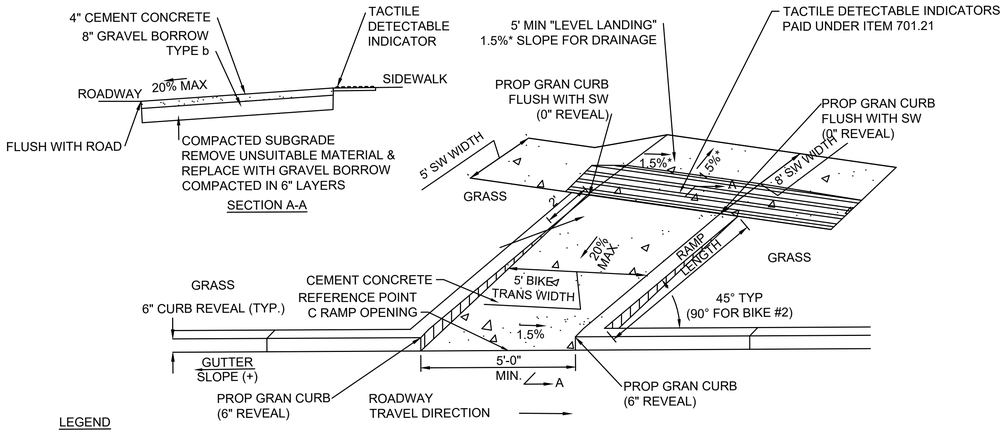


PROPOSED WALL



Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(WALL PROF).dwg 9/2/2026 11:45 AM

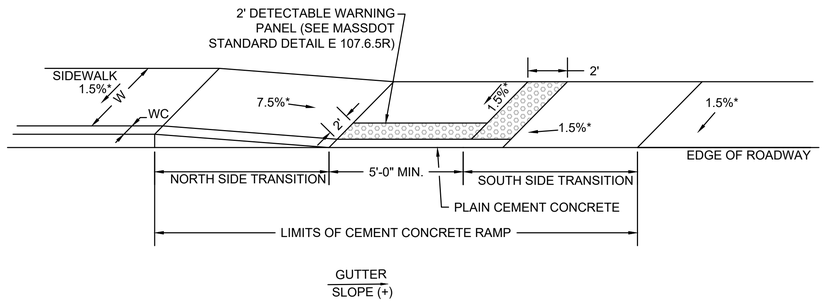
609204_HD(WALL PROF).DWG Plotted on Sep-26 11:45 AM



LEGEND
W = SIDEWALK WIDTH
* = TOLERANCE FOR CONSTRUCTION (± 0.5%)

BICYCLE RAMP
NOT TO SCALE

BIKE RAMP CHART					
BIKE RAMP NUMBER	STREET NAME ℄	STATION	OFFSET	RAMP OPENING WIDTH	RAMP LENGTH
1	BELMONT PATH	899+81 LT	21.50	8.00	11.00
2	BELMONT PATH	900+21 LT	21.50	18	11.00

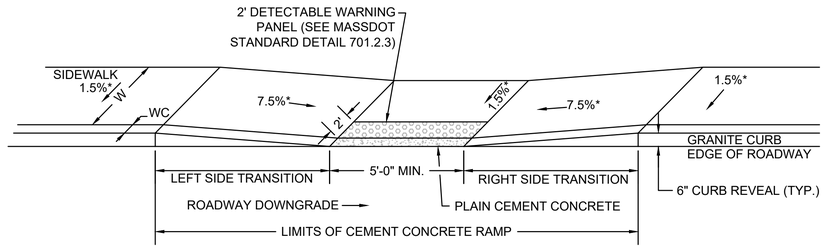


LEGEND
CC = CEMENT CONCRETE
HSL = HIGH SIDE TRANSITION LENGTH (SEE MASSDOT DETAIL 701.2.8)
W = SIDEWALK WIDTH (USABLE WIDTH)
W1 = PERPENDICULAR RAMP LENGTH (W-4')
Wc = CURB WIDTH (VARIES 0"-6")
* = TOLERANCE FOR CONSTRUCTION (±0.5%)

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'

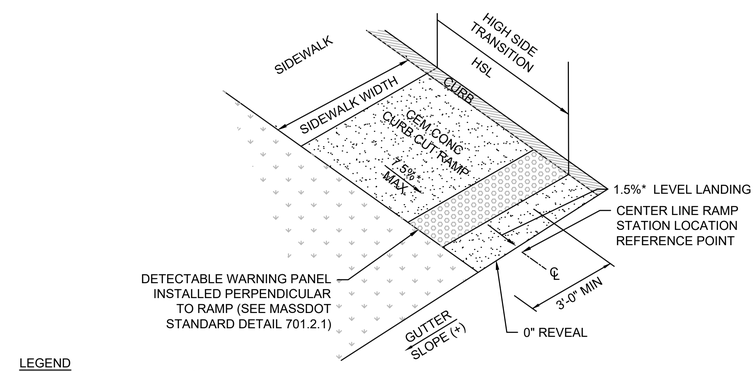
** 3" CURB REVEAL



LEGEND
CC = CEMENT CONCRETE
HSL = HIGH SIDE TRANSITION LENGTH (SEE MASSDOT DETAIL 701.2.8)
W = SIDEWALK WIDTH (USABLE WIDTH)
W1 = PERPENDICULAR RAMP LENGTH (W-4')
Wc = CURB WIDTH (VARIES 0"-6")
* = TOLERANCE FOR CONSTRUCTION (±0.5%)

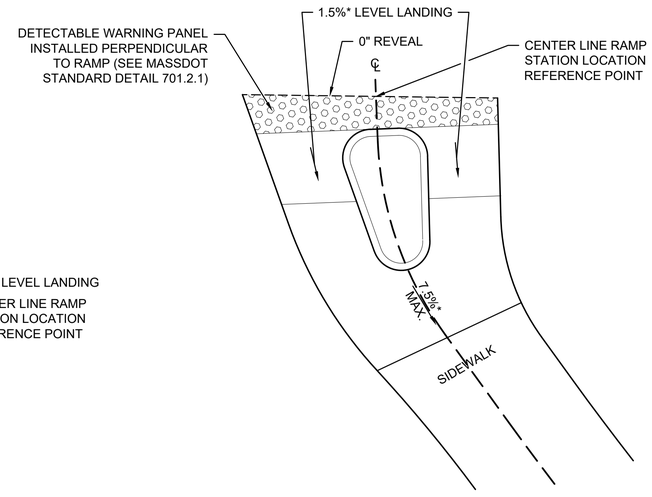
PED. CURB RAMP DATA - LESS THAN 12'4" SIDEWALK								
PED CURB RAMP NUMBER	STREET NAME ℄	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITION LENGTH	
							LEFT SIDE	RIGHT SIDE
1	BELMONT PATH	912+56	43.08 LT	5.00	7.00	4.15%	6.5'	15.0'

PEDESTRIAN CURB RAMP
LESS THAN 12'-4" SIDEWALK
NOT TO SCALE



LEGEND
HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
* = TOLERANCE FOR CONSTRUCTION (± 0.5%)

PEDESTRIAN CURB RAMP FOR
ONE DIRECTION OF TRAVEL
NOT TO SCALE



PEDESTRIAN CURB RAMP FOR
ONE DIRECTION OF TRAVEL - RAMP 6
NOT TO SCALE

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 LT	8.00'	8.00'	2.90%	6.5'	--
5	BRIGHTON STREET	201+07	14.78 RT	6.00'	6.00'	-2.90%	--	6.5'
6	ALEXANDER AVE SPUR	500+09	0	18.00'	10'	-2.00%	9.0'	9.0'

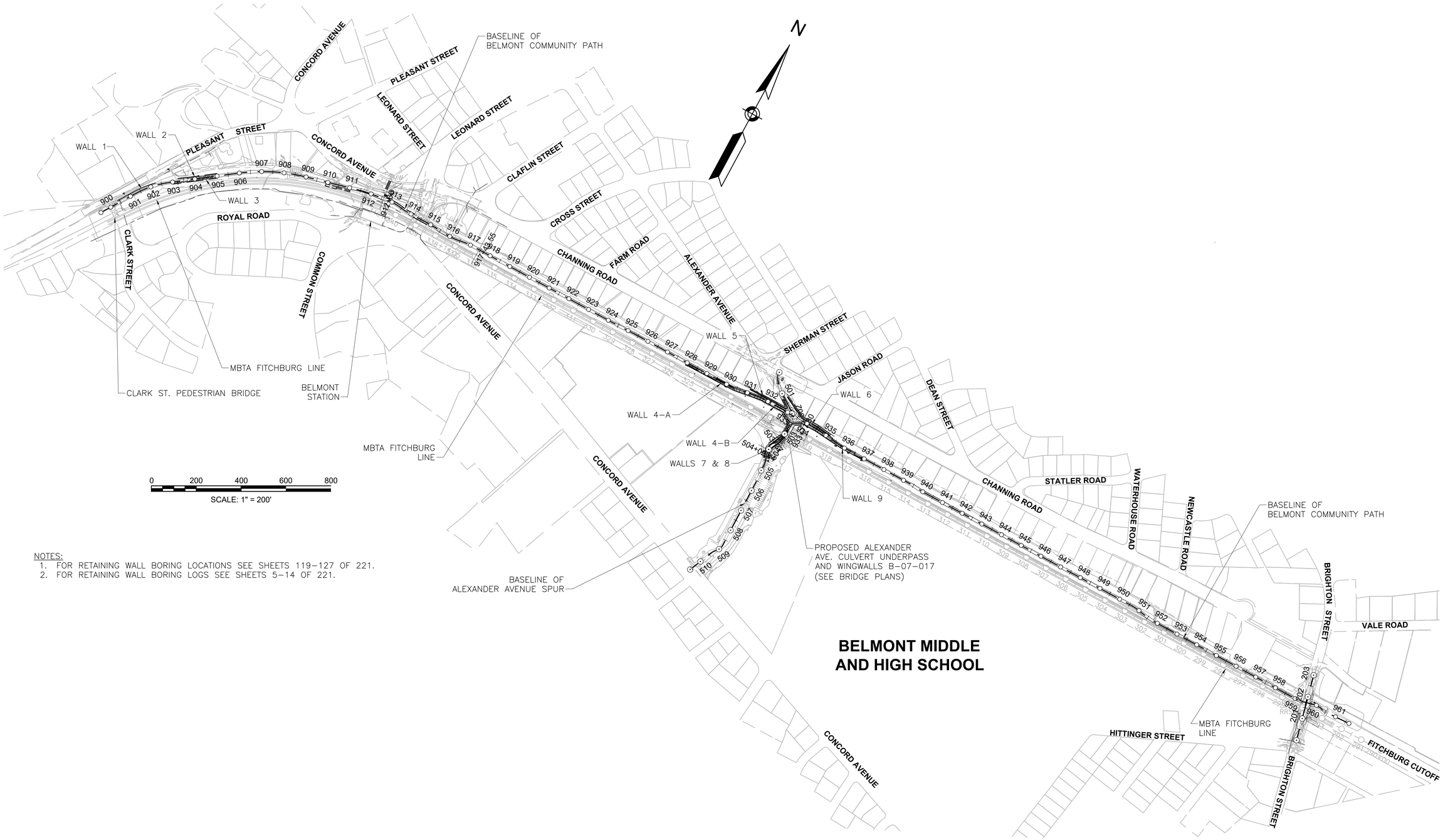
609204_HD(DET).DWG Plotted on Sep-26 11:45 AM
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	118	221
PROJECT FILE NO.	609204		

RETAINING WALL KEY PLAN

609204_BRK(KEY PLAN).DWG Plotted on 23-Sep-2026 7:48 AM



NOTES:
1. FOR RETAINING WALL BORING LOCATIONS SEE SHEETS 119–127 OF 221.
2. FOR RETAINING WALL BORING LOGS SEE SHEETS 5–14 OF 221.

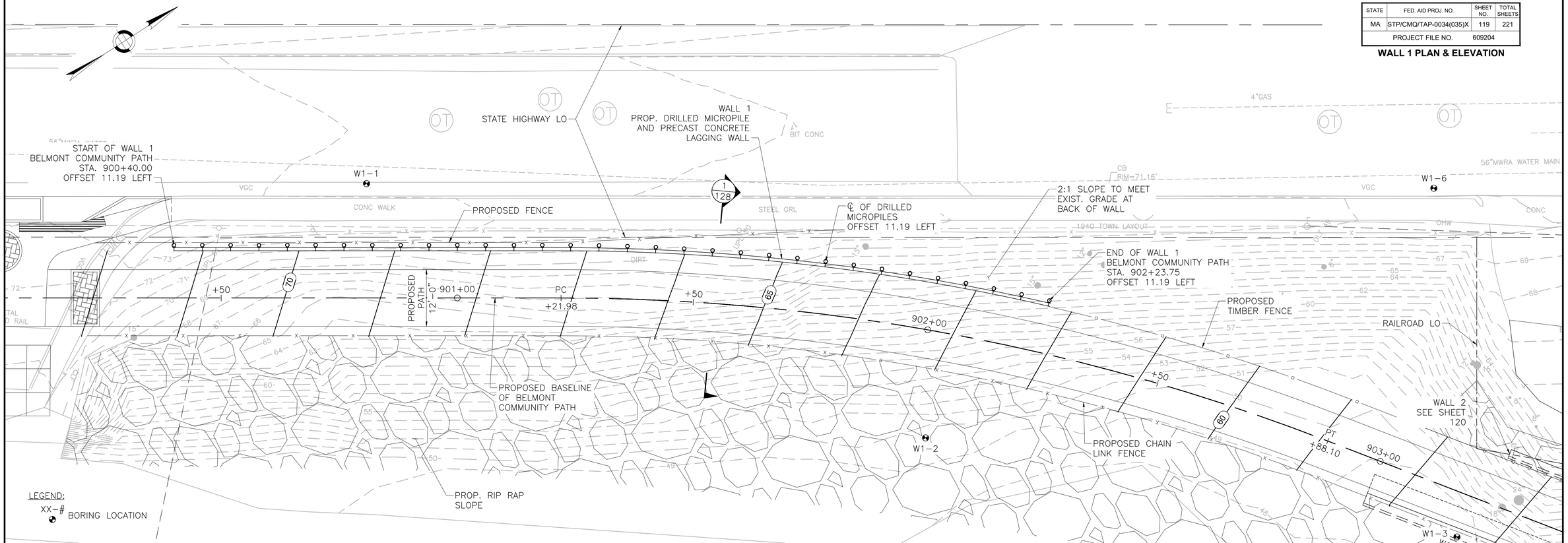
KEY PLAN – SITE RETAINING WALLS
SCALE: 1" = 200'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	119	221
PROJECT FILE NO.	609204		

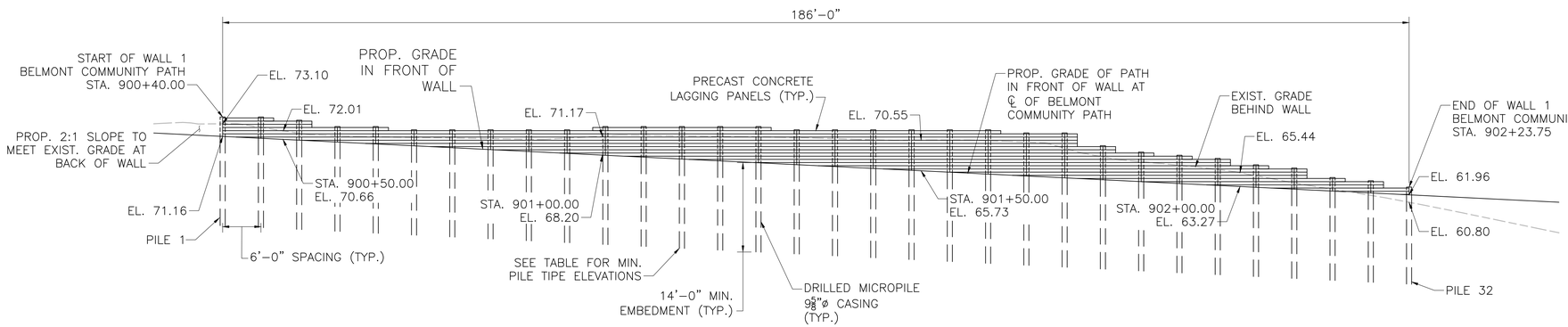
WALL 1 PLAN & ELEVATION

609204_BR(P&E).DWG Plotted on 23-Sep-2026 7:48 AM



PLAN VIEW – WALL 1

SCALE: 1" = 10'



ELEVATION VIEW – WALL 1

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

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.

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

0 10 20 30 40

SCALE: 1" = 10'

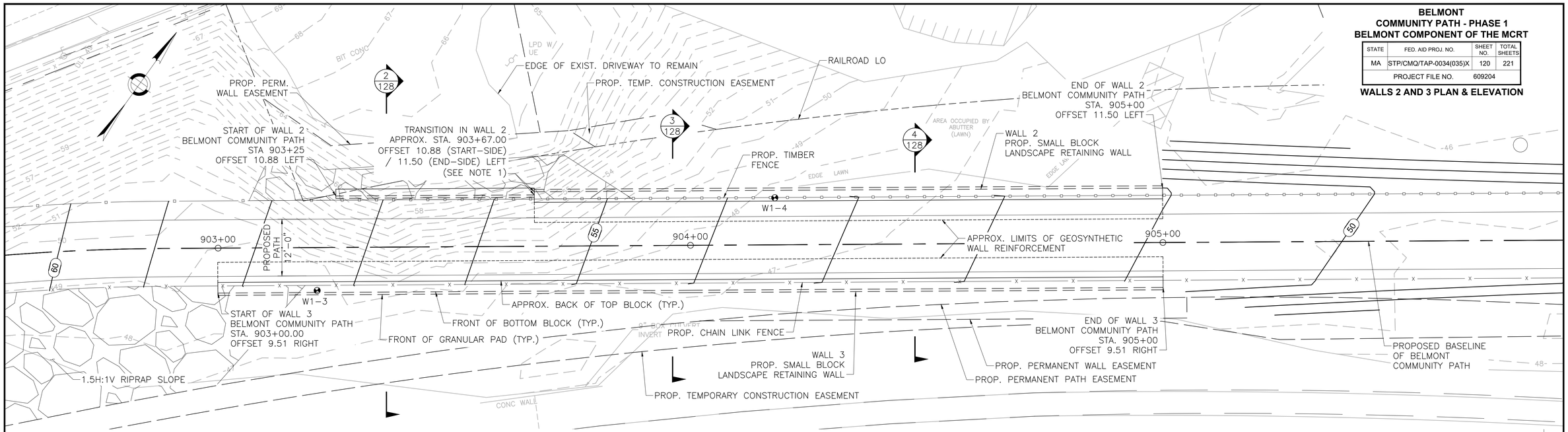
WALL 1 – DRILLED MICROPILE AND PRECAST CONCRETE LAGGING WALL

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	120	221
PROJECT FILE NO.	609204		

WALLS 2 AND 3 PLAN & ELEVATION

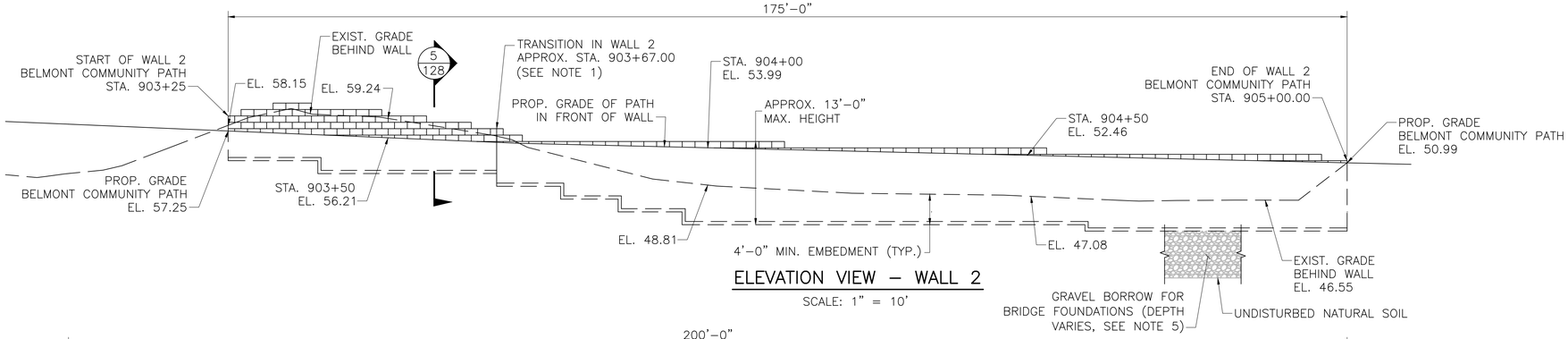
609204_BR(P&E).DWG Plotted on 23-Sep-2026 7:48 AM



PLAN VIEW – WALLS 2 & 3

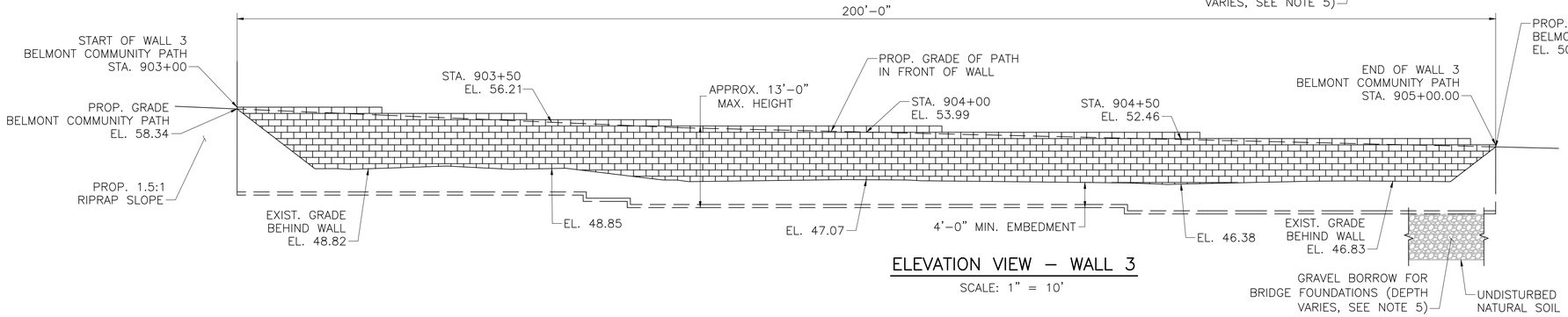
SCALE: 1" = 10'

LEGEND:
XX-# BORING LOCATION



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.
5. PER GEOTECHNICAL REPORT, EXISTING FILL MATERIAL IS UNSUITABLE FOR SUPPORT OF WALLS, EXCAVATE ALL FILL MATERIAL TO NATURAL UNDISTURBED SOIL AND REPLACE WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS. SEE SHEET 128 FOR DETAILS.

0 10 20 30 40

SCALE: 1" = 10'

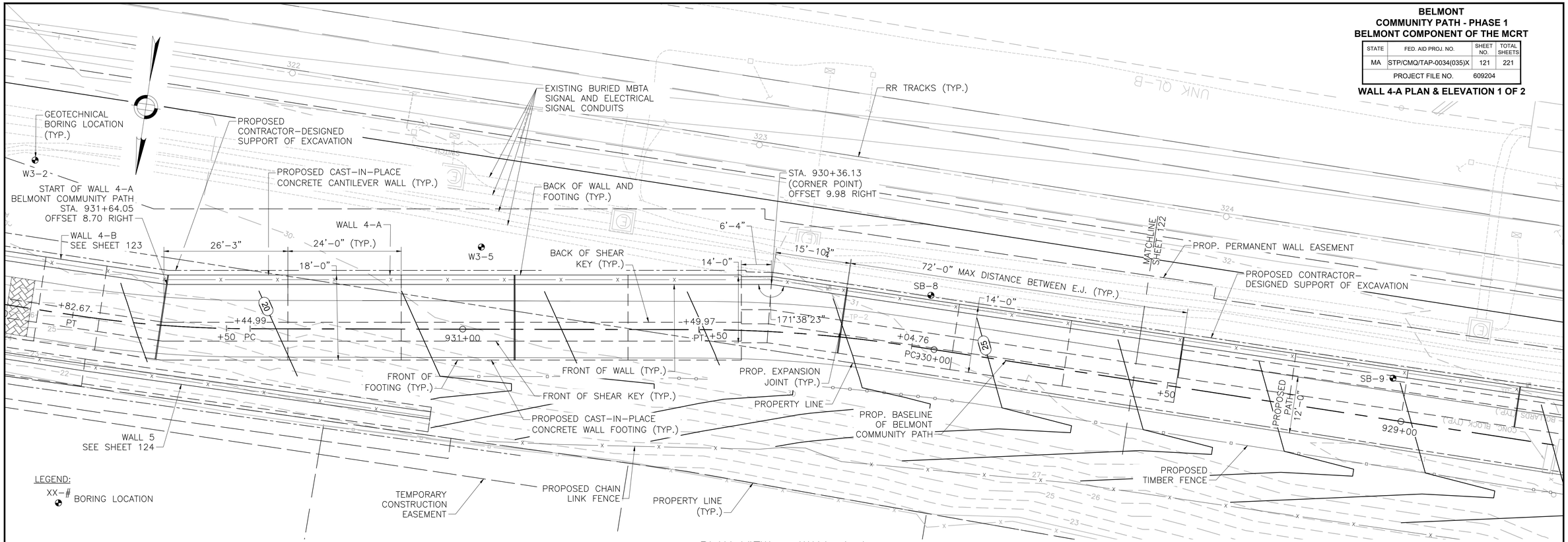
WALLS 2 AND 3 – SMALL BLOCK LANDSCAPING RETAINING WALLS

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	121	221
PROJECT FILE NO.	609204		

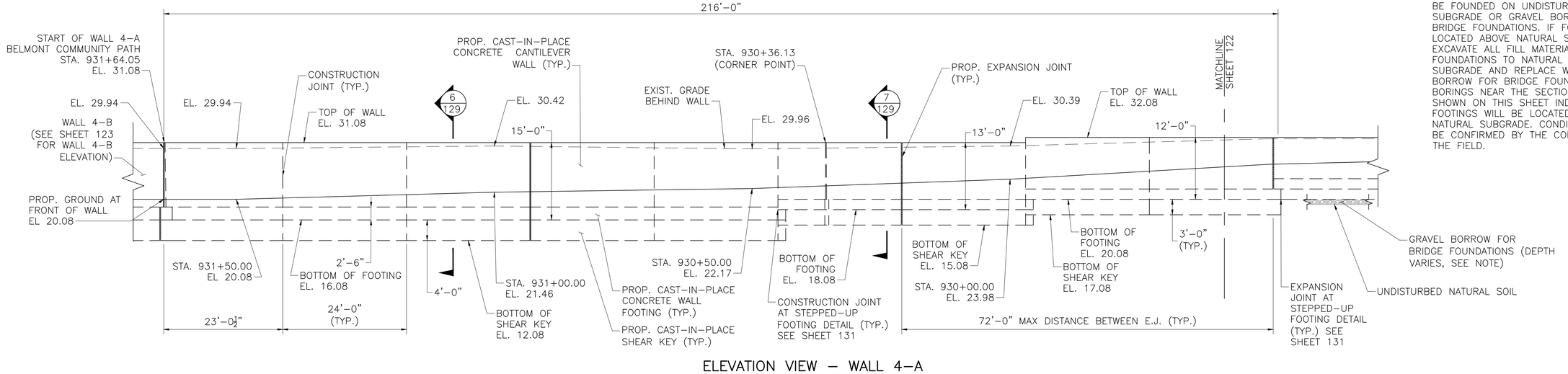
WALL 4-A PLAN & ELEVATION 1 OF 2

609204_BR(P&E).DWG Plotted on 23-Sep-2026 7:49 AM



PLAN VIEW – WALL 4-A

SCALE: 1" = 10'



ELEVATION VIEW – WALL 4-A

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

NOTE: PER GEOTECHNICAL REPORT, EXISTING FILL MATERIAL IS UNSUITABLE FOR SUPPORT OF WALLS. WALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL SUBGRADE OR GRAVEL BORROW FOR BRIDGE FOUNDATIONS. IF FOOTINGS ARE LOCATED ABOVE NATURAL SUBGRADE, EXCAVATE ALL FILL MATERIAL BENEATH WALL FOUNDATIONS TO NATURAL UNDISTURBED SUBGRADE AND REPLACE WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS. BORINGS NEAR THE SECTION OF WALL SHOWN ON THIS SHEET INDICATE THE FOOTINGS WILL BE LOCATED BELOW NATURAL SUBGRADE. CONDITIONS SHOULD BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.

WALL 4-A – CAST-IN-PLACE CONCRETE CANTILEVER WALL

0 10 20 30 40

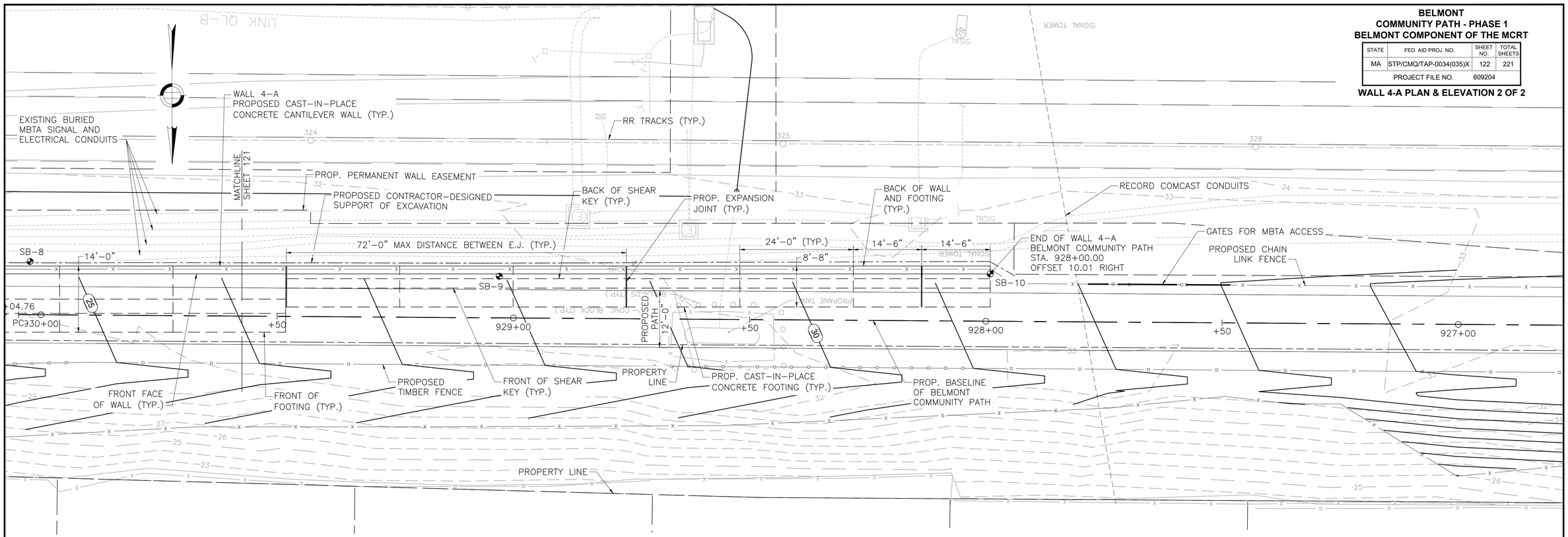
SCALE: 1" = 10'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	122	221
PROJECT FILE NO.	609204		

WALL 4-A PLAN & ELEVATION 2 OF 2

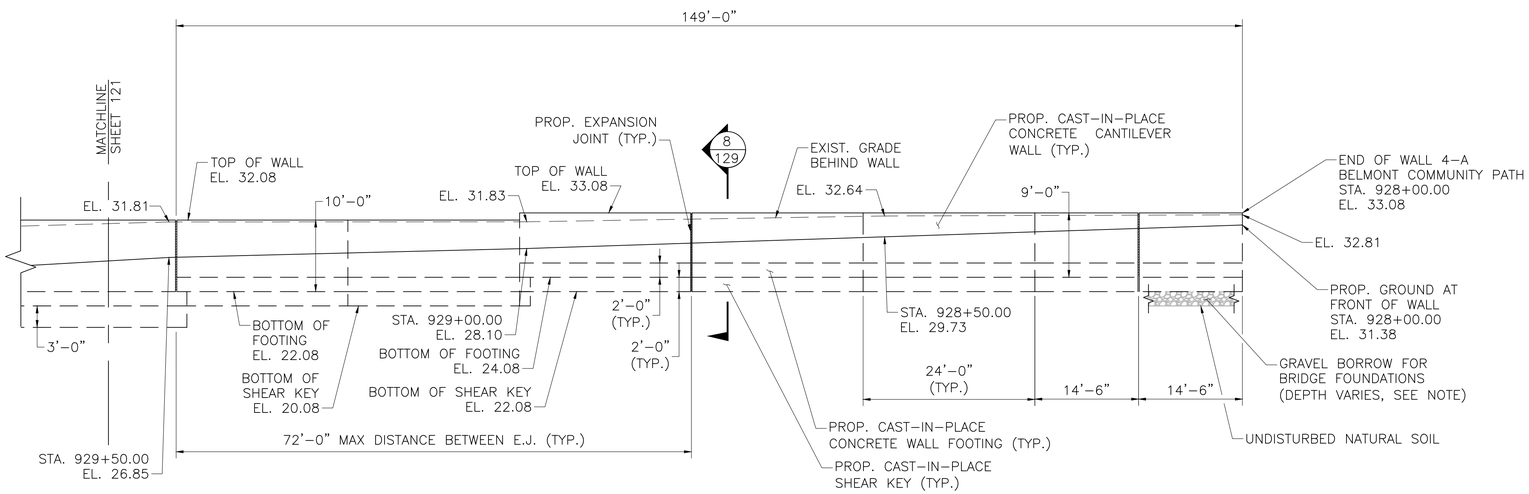
609204_BRI(P&E).DWG Plotted on 23-Sep-2026 7:49 AM



LEGEND:
XX–# BORING LOCATION

PLAN VIEW – WALL 4–A

SCALE: 1" = 10'



ELEVATION VIEW – WALL 4–A

SCALE: 1" = 10'

NOTE: PER GEOTECHNICAL REPORT, EXISTING FILL MATERIAL IS UNSUITABLE FOR SUPPORT OF WALLS. WALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL SUBGRADE OR GRAVEL BORROW FOR BRIDGE FOUNDATIONS. IF FOOTINGS ARE LOCATED ABOVE NATURAL SUBGRADE, EXCAVATE ALL FILL MATERIAL BENEATH WALL FOUNDATIONS TO NATURAL UNDISTURBED SUBGRADE AND REPLACE WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS. BORINGS NEAR THE SECTION OF WALL SHOWN ON THIS SHEET INDICATE THE FOOTINGS MAY REQUIRE 0' TO 2' OF GRAVEL BORROW FOR BRIDGE FOUNDATIONS. CONDITIONS SHOULD BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.

WALL 4–A – CAST–IN–PLACE CONCRETE CANTILEVER WALL

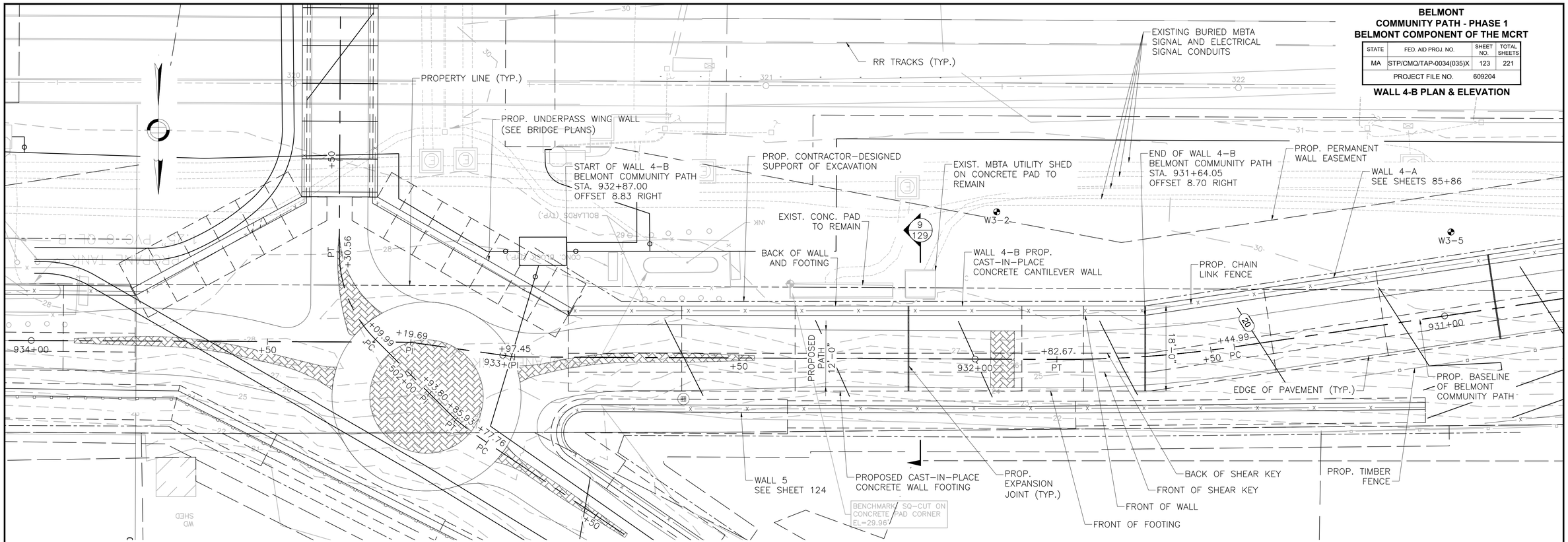
0 10 20 30 40
SCALE: 1" = 10'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	123	221
PROJECT FILE NO.	609204		

WALL 4-B PLAN & ELEVATION

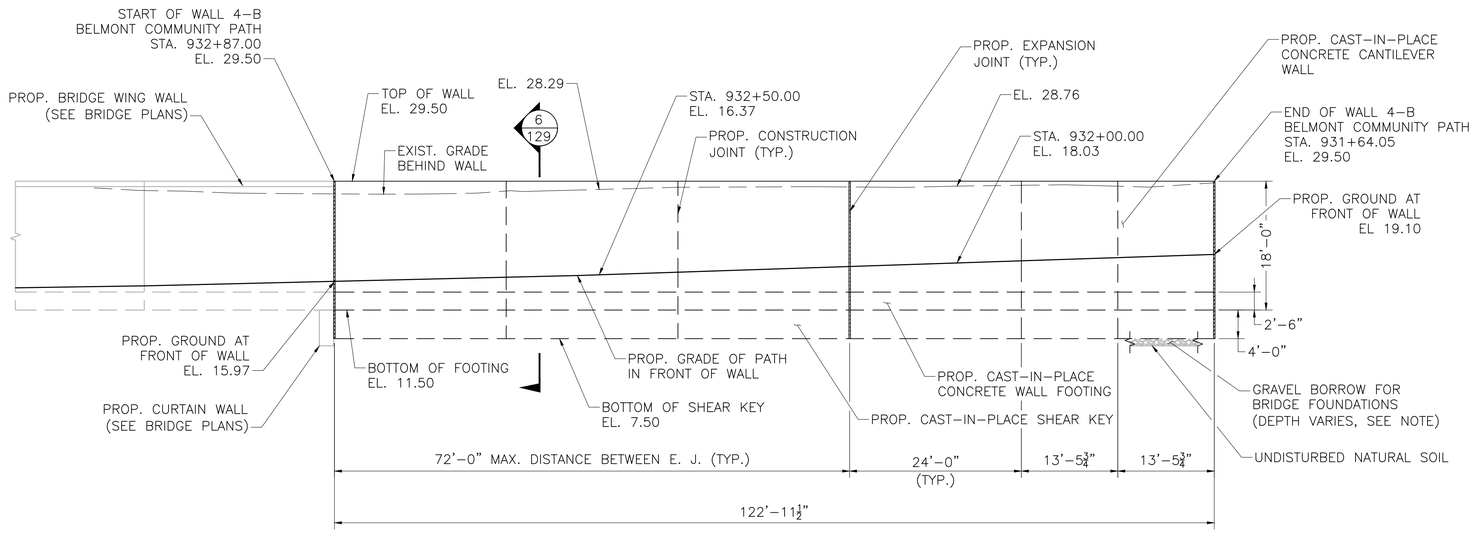
609204_BRI(P&E).DWG Plotted on 23-Sep-2026 7:49 AM



LEGEND:
XX-# BORING LOCATION

PLAN VIEW – WALL 4-B

SCALE: 1" = 10'



ELEVATION VIEW – WALL 4-B

SCALE: 1" = 10'

NOTE: PER GEOTECHNICAL REPORT, EXISTING FILL MATERIAL IS UNSUITABLE FOR SUPPORT OF WALLS. WALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL SUBGRADE OR GRAVEL BORROW FOR BRIDGE FOUNDATIONS. IF FOOTINGS ARE LOCATED ABOVE NATURAL SUBGRADE, EXCAVATE ALL FILL MATERIAL BENEATH WALL FOUNDATIONS TO NATURAL UNDISTURBED SUBGRADE AND REPLACE WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS. BORINGS NEAR THE SECTION OF WALL SHOWN ON THIS SHEET INDICATE THE FOOTINGS WILL BE LOCATED BELOW NATURAL SUBGRADE. CONDITIONS SHOULD BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.

WALL 4-B – CAST-IN-PLACE CONCRETE CANTILEVER WALL WITH SHEAR KEY

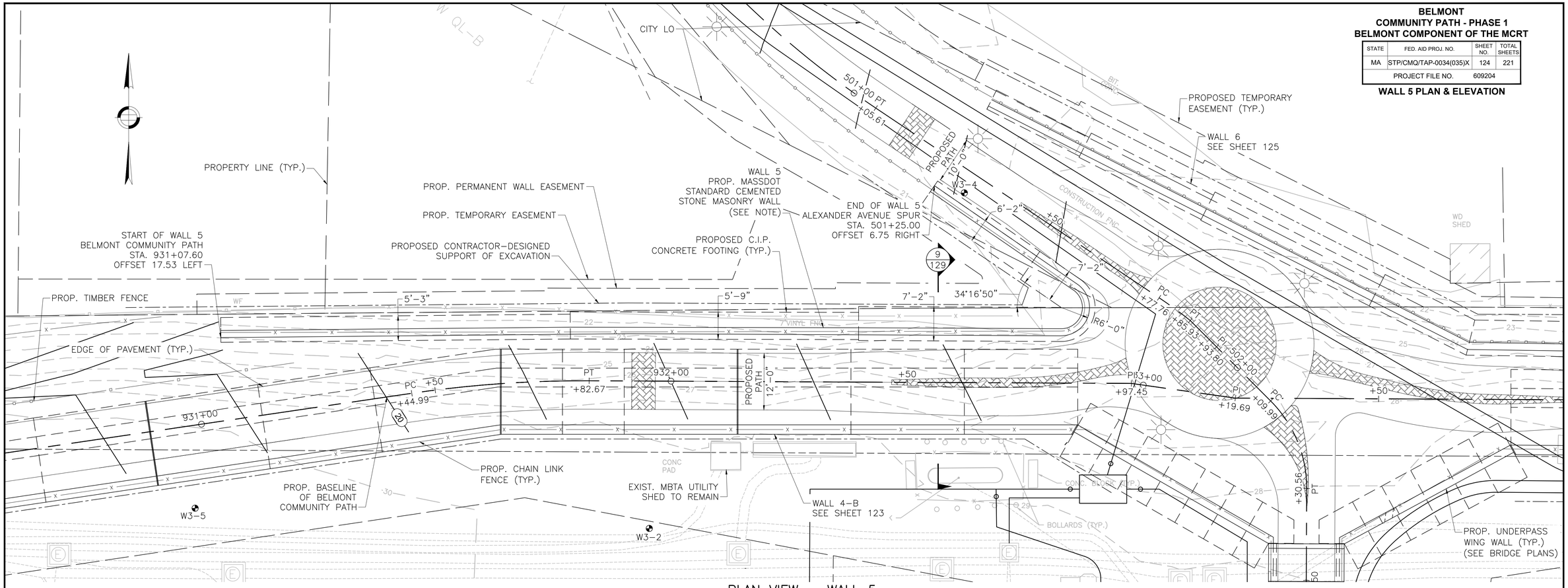
0 10 20 30 40
SCALE: 1" = 10'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	124	221
PROJECT FILE NO.	609204		

WALL 5 PLAN & ELEVATION

609204_BR(P&E).DWG Plotted on 23-Sep-2026 7:49 AM

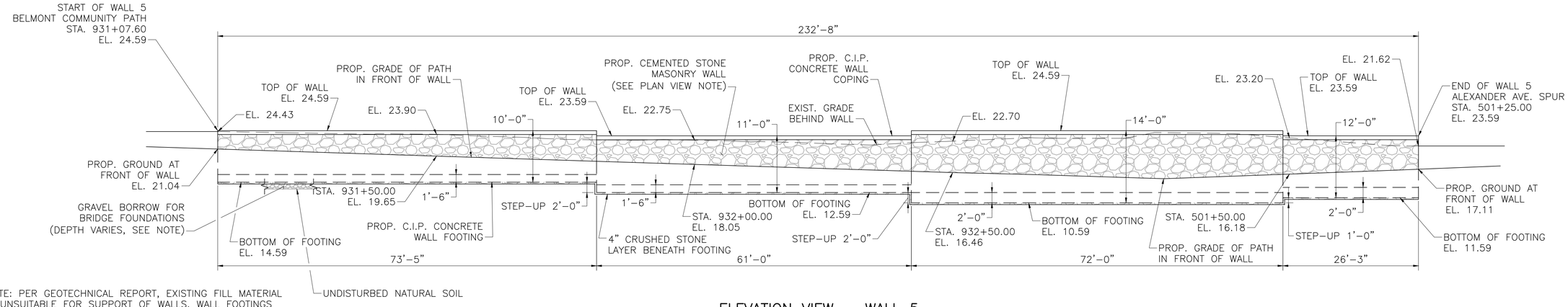


PLAN VIEW – WALL 5

SCALE: 1" = 10'

NOTE: SEE MASSDOT CONSTRUCTION STANDARD 685.0.1 FOR ADDITIONAL DETAILS AND DIMENSIONS

LEGEND:
XX-# BORING LOCATION



ELEVATION VIEW – WALL 5

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

NOTE: PER GEOTECHNICAL REPORT, EXISTING FILL MATERIAL IS UNSUITABLE FOR SUPPORT OF WALLS. WALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL SUBGRADE OR GRAVEL BORROW FOR BRIDGE FOUNDATIONS. IF FOOTINGS ARE LOCATED ABOVE NATURAL SUBGRADE, EXCAVATE ALL FILL MATERIAL BENEATH WALL FOUNDATIONS TO NATURAL UNDISTURBED SUBGRADE AND REPLACE WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS. BORINGS NEAR THE SECTION OF WALL SHOWN ON THIS SHEET INDICATE THE FOOTINGS MAY REQUIRE 0' TO 1' OF GRAVEL BORROW FOR BRIDGE FOUNDATIONS. CONDITIONS SHOULD BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.

WALL 5 – MASSDOT STANDARD CEMENTED STONE MASONRY WALL

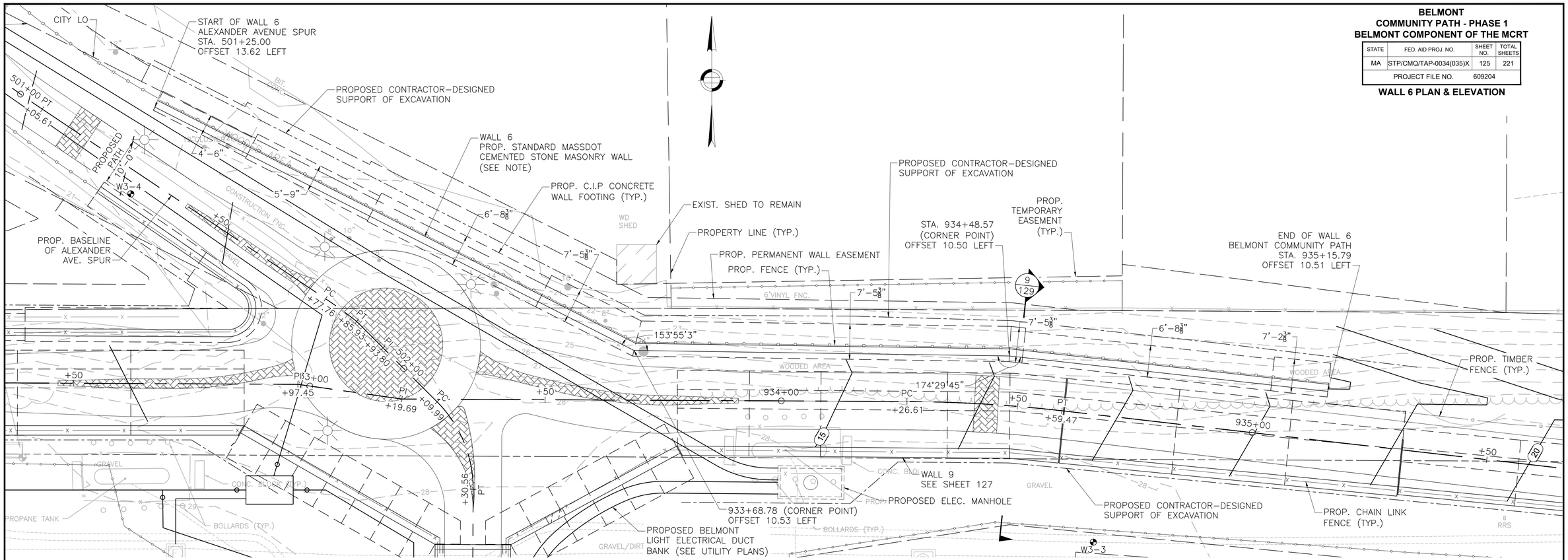
0 10 20 30 40
SCALE: 1" = 10'

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	125	221
PROJECT FILE NO.	609204		

WALL 6 PLAN & ELEVATION

609204_BR(P&E).DWG Plotted on 23-Sep-2026 7:50 AM

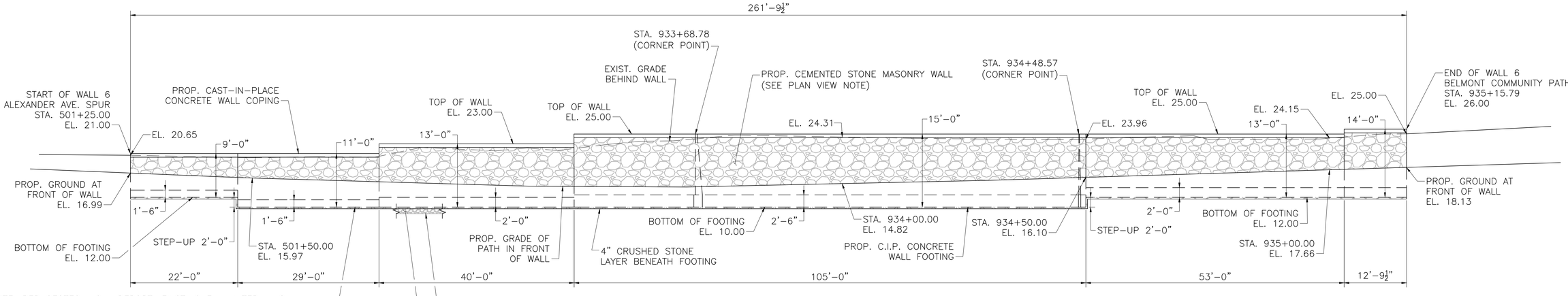


LEGEND:
XX–# BORING LOCATION

PLAN VIEW – WALL 6

SCALE: 1" = 10'

NOTE: SEE MASSDOT CONSTRUCTION STANDARD 685.0.1 FOR ADDITIONAL DETAILS AND DIMENSIONS



NOTE: PER GEOTECHNICAL REPORT, EXISTING FILL MATERIAL IS UNSUITABLE FOR SUPPORT OF WALLS. WALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL SUBGRADE OR GRAVEL BORROW FOR BRIDGE FOUNDATIONS. IF FOOTINGS ARE LOCATED ABOVE NATURAL SUBGRADE, EXCAVATE ALL FILL MATERIAL BENEATH WALL FOUNDATIONS TO NATURAL UNDISTURBED SUBGRADE AND REPLACE WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS. BORINGS NEAR THE SECTION OF WALL SHOWN ON THIS SHEET INDICATE THE FOOTINGS WILL BE LOCATED BELOW NATURAL SUBGRADE. CONDITIONS SHOULD BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.

ELEVATION VIEW – WALL 6

SCALE: 1" = 10'

NOTE: ELEVATION VIEW IS FLATTENED HERE

0 10 20 30 40
SCALE: 1" = 10'

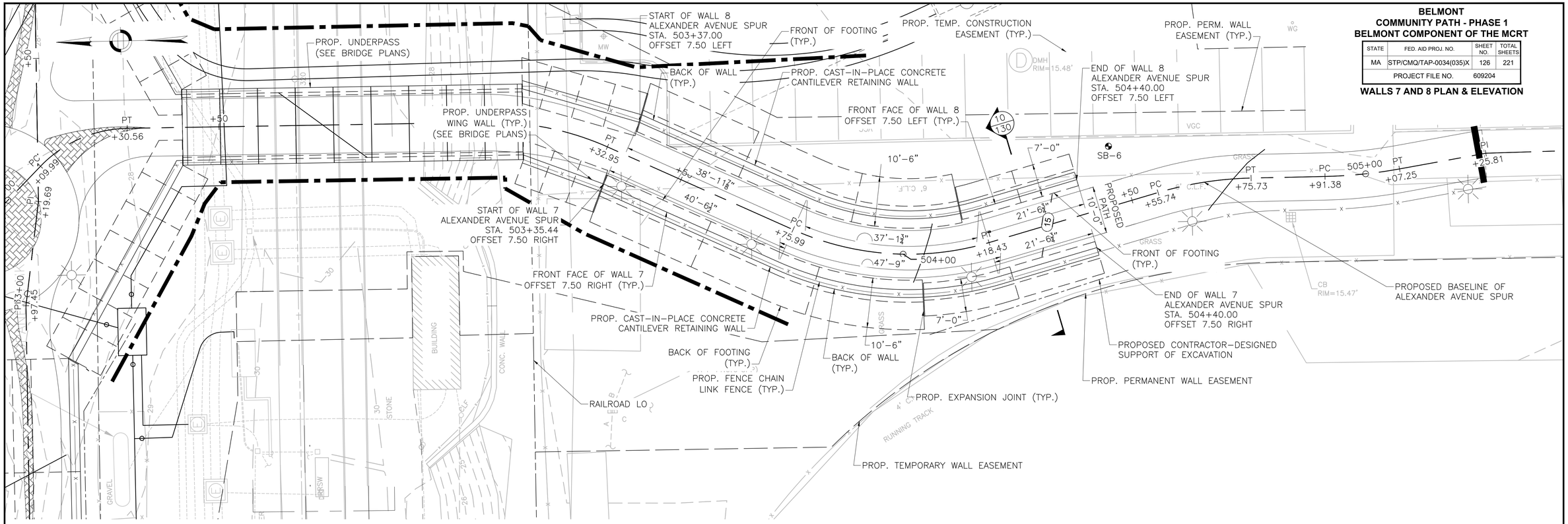
WALL 6 – MASSDOT STANDARD CEMENTED STONE MASONRY WALL

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	126	221
PROJECT FILE NO.	609204		

WALLS 7 AND 8 PLAN & ELEVATION

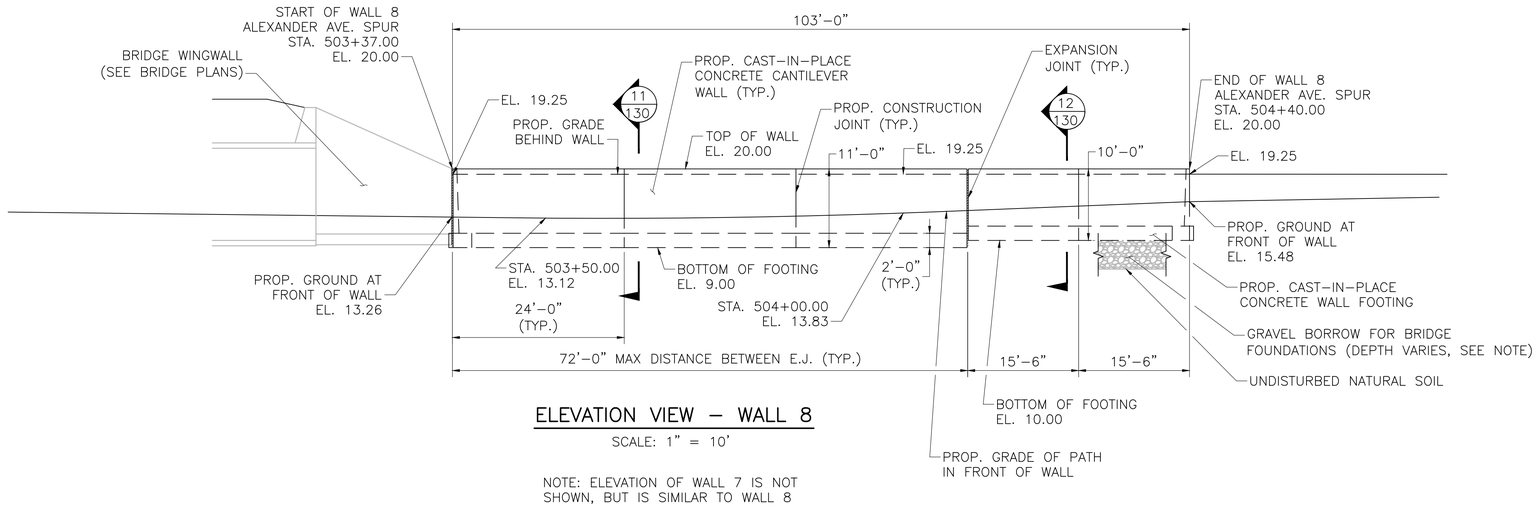
609204_BRI(P&E).DWG Plotted on 23-Sep-2026 7:50 AM



LEGEND:
XX-# BORING LOCATION

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

NOTE: PER GEOTECHNICAL REPORT, EXISTING FILL MATERIAL IS UNSUITABLE FOR SUPPORT OF WALLS. WALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL SUBGRADE OR GRAVEL BORROW FOR BRIDGE FOUNDATIONS. IF FOOTINGS ARE LOCATED ABOVE NATURAL SUBGRADE, EXCAVATE ALL FILL MATERIAL BENEATH WALL FOUNDATIONS TO NATURAL UNDISTURBED SUBGRADE AND REPLACE WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS. BORINGS NEAR THE SECTION OF WALL SHOWN ON THIS SHEET INDICATE THE FOOTINGS MAY REQUIRE 0' TO 4' OF GRAVEL BORROW FOR BRIDGE FOUNDATIONS. CONDITIONS SHOULD BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.

0 10 20 30 40
SCALE: 1" = 10'

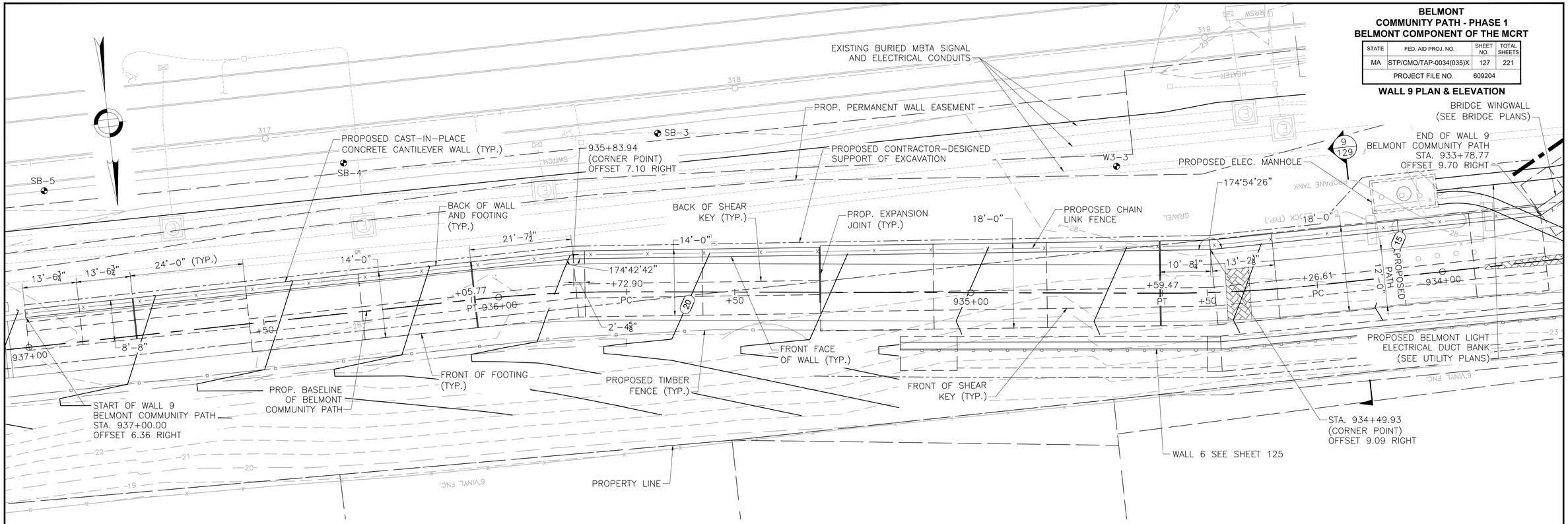
WALLS 7 & 8 – CAST-IN-PLACE CONCRETE CANTILEVER WALLS

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	127	221
PROJECT FILE NO.	609204		

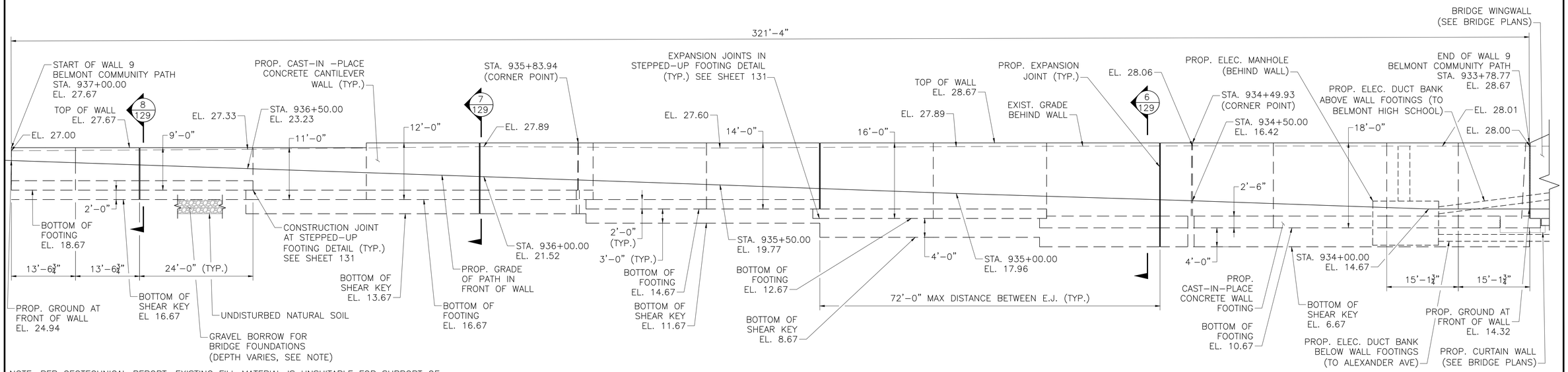
WALL 9 PLAN & ELEVATION

609204_BR(P&E).DWG Plotted on 23-Sep-2026 7:50 AM



LEGEND:
XX-# BORING LOCATION

PLAN VIEW – WALL 9
SCALE: 1" = 10'



ELEVATION VIEW – WALL 9
SCALE: 1" = 10'

0 10 20 30 40
SCALE: 1" = 10'

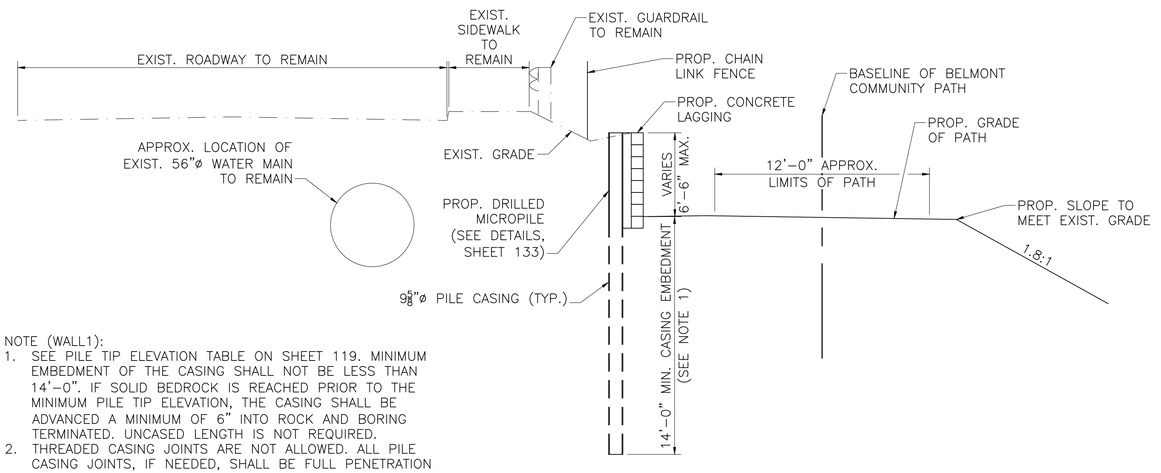
NOTE: PER GEOTECHNICAL REPORT, EXISTING FILL MATERIAL IS UNSUITABLE FOR SUPPORT OF WALLS. WALL FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL SUBGRADE OR GRAVEL BORROW FOR BRIDGE FOUNDATIONS. IF FOOTINGS ARE LOCATED ABOVE NATURAL SUBGRADE, EXCAVATE ALL FILL MATERIAL BENEATH WALL FOUNDATIONS TO NATURAL UNDISTURBED SUBGRADE AND REPLACE WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS. BORINGS NEAR THE SECTION OF WALL SHOWN ON THIS SHEET INDICATE THE FOOTINGS MAY REQUIRE 0' TO 3' OF GRAVEL BORROW FOR BRIDGE FOUNDATIONS NEAR THE EAST END OF WALL 9. CONDITIONS SHOULD BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.

WALL 9 – CAST-IN-PLACE CONCRETE CANTILEVER WALL

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

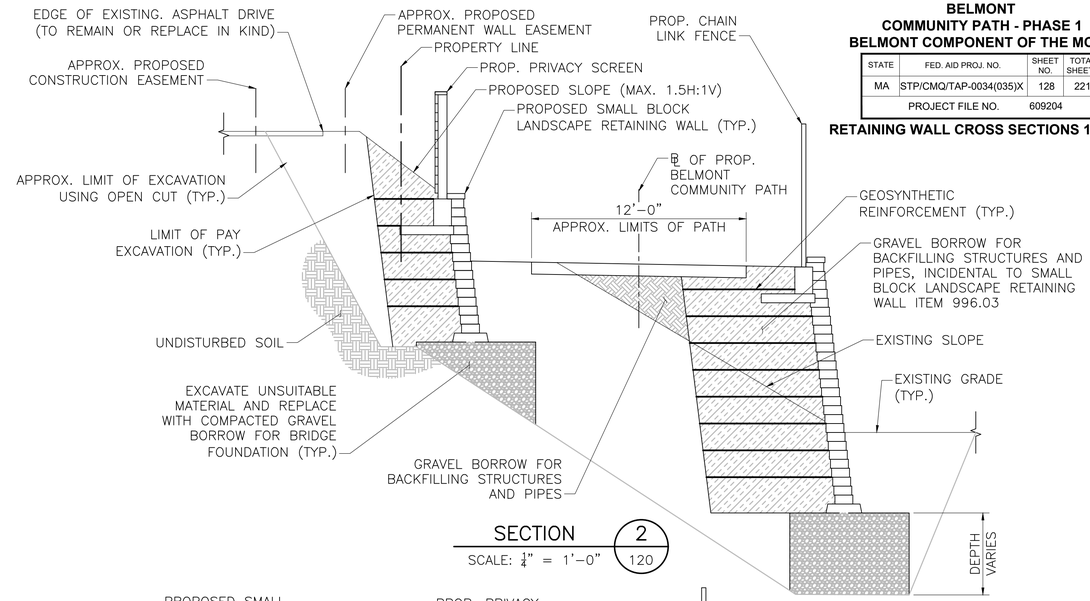
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	128	221
PROJECT FILE NO.	609204		

RETAINING WALL CROSS SECTIONS 1 OF 3

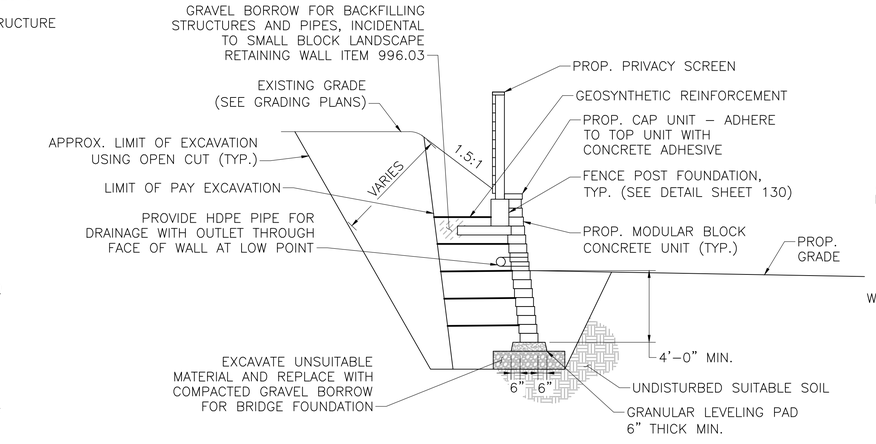


SECTION 1 — SCALE: ¼" = 1'-0" — 119

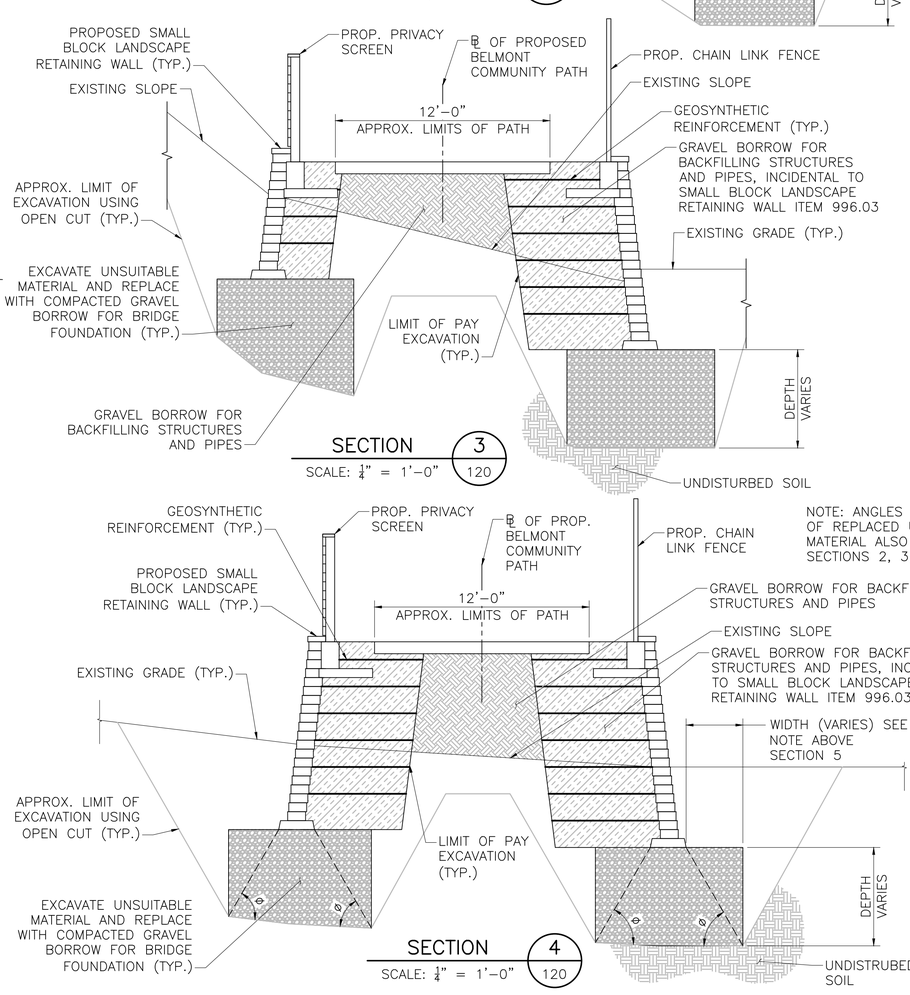
NOTE (WALL1):
1. SEE PILE TIP ELEVATION TABLE ON SHEET 119. MINIMUM EMBEDMENT OF THE CASING SHALL NOT BE LESS THAN 14'-0". IF SOLID BEDROCK IS REACHED PRIOR TO THE MINIMUM PILE TIP ELEVATION, THE CASING SHALL BE ADVANCED A MINIMUM OF 6" INTO ROCK AND BORING TERMINATED. UNCASED LENGTH IS NOT REQUIRED.
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.
3. THE HEIGHT OF THE EXPOSED UNSUPPORTED FINAL EXCAVATION FACE CUT SHALL BE STABLE AND SHALL BE ESTABLISHED BY THE CONTRACTOR. OTHERWISE, THE CONTRACTOR SHALL BE PROVIDE MEANS AND METHODS OF TEMPORARY CUT FACE STABILIZATION UNTIL FINAL PRECAST CONCRETE LAGGING IS IN PLACE.
4. REFER TO SPECIAL PROVISION ITEM 996.01 WALL STRUCTURE NO. 1 FOR ADDITIONAL INFORMATION.



SECTION 2 — SCALE: ¼" = 1'-0" — 120

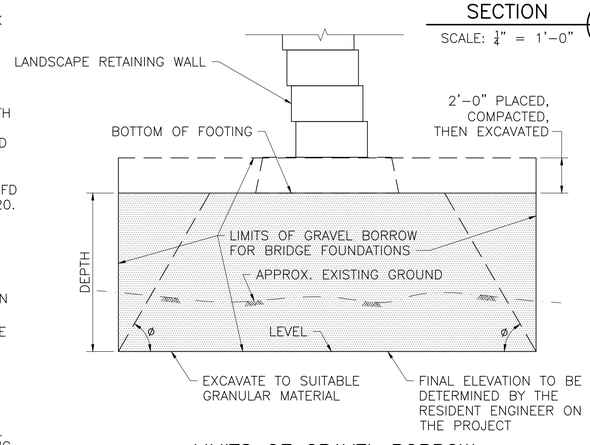


TYPICAL SMALL BLOCK LANDSCAPE RETAINING WALL DETAILS



SECTION 3 — SCALE: ¼" = 1'-0" — 120

SECTION 5 — SCALE: ¼" = 1'-0" — 120



LIMITS OF GRAVEL BORROW FOR BRIDGE FOUNDATIONS (PATH WALLS)

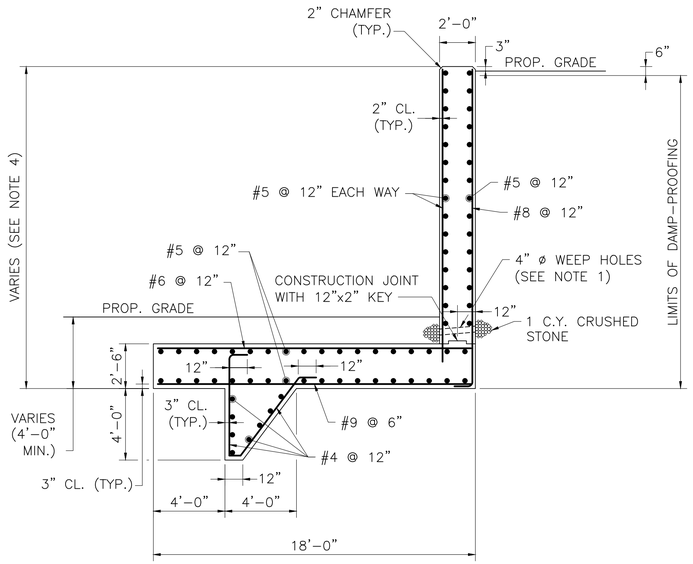
NOT TO SCALE

SMALL BLOCK LANDSCAPE RETAINING WALL (WALLS 2 AND 3) 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.
7. 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"
8. 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 4 — SCALE: ¼" = 1'-0" — 120

NOTE: ANGLES DEFINING WIDTHS OF REPLACED UNSUITABLE MATERIAL ALSO APPLY TO SECTIONS 2, 3, AND 5

609204_BR(XSEC).DWG Plotted on 23-Sep-2026 7:50 AM



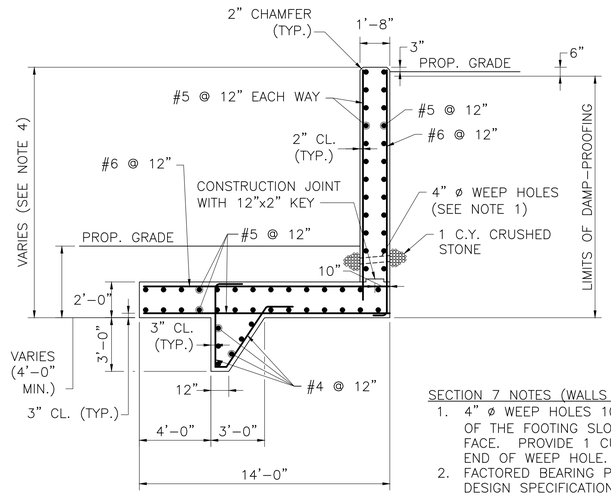
SECTION 6 — SCALE: 1/4" = 1'-0" — 121 — 123,127

SECTION 6 NOTES (WALLS 4-A, 4-B AND 9):

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.

CEMENTED STONE MASONRY WALLS (WALLS 5 AND 6) NOTES:

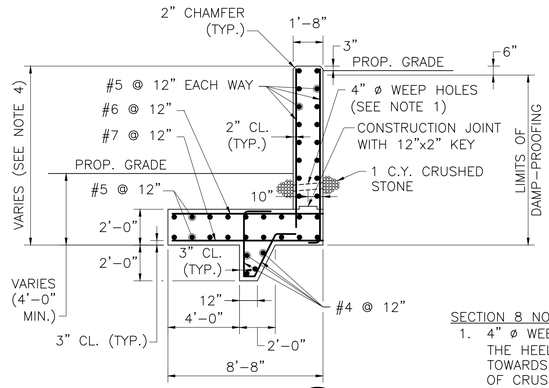
1. 4" ø WEEP HOLES 20'-0" O.C.
2. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR H = 15.0 FT MAXIMUM.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING PRESSURE = 3.52 KSF.
   - EXTREME EVENT I LIMIT STATE
     FACTORED BEARING PRESSURE = 4.92 KSF.
2. FACTORED BEARING RESISTANCE = 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. IN ACCORDANCE WITH 685.0.1 OF THE STANDARD CONSTRUCTION DETAILS, WALL DESIGN SHALL BE STAMPED 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 7 — SCALE: 1/4" = 1'-0" — 120 — 127

SECTION 7 NOTES (WALLS 4-A AND 9):

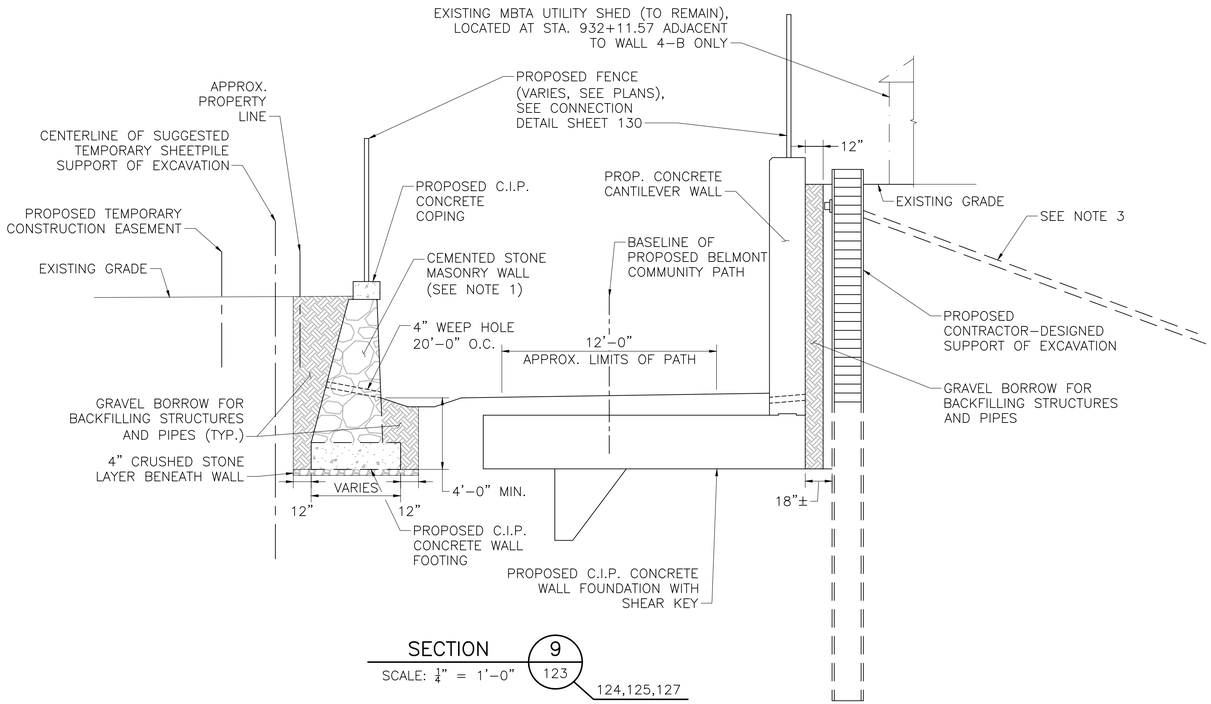
1. 4" ø WEEP HOLES 10'-0" O.C. LOCATED 12" ABOVE THE HEEL OF THE FOOTING SLOPING 1" PER FOOT TOWARDS THE FRONT FACE. PROVIDE 1 CUBIC YARD OF CRUSHED STONE AT EACH END OF WEEP HOLE.
2. FACTORED BEARING PRESSURE PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
   - STRENGTH I LIMIT STATE
     FACTORED BEARING 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 DATED 08/07/2026.
6. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE SHALL BE PLACED UNDER ALL CANTILEVER WALL FOOTINGS FOUNDED ON COHESIVE SOILS, PER GZA GEOTECHNICAL REPORT DATED 08/07/2026.



SECTION 8 — SCALE: 1/4" = 1'-0" — 122 — 127

SECTION 8 NOTES (WALLS 4-A AND 9):

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 DATED 08/07/2026.
6. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE SHALL BE PLACED UNDER ALL CANTILEVER WALL FOOTINGS FOUNDED ON COHESIVE SOILS, PER GZA GEOTECHNICAL REPORT DATED 08/07/2026.



SECTION 9 — SCALE: 1/4" = 1'-0" — 123 — 124,125,127

REINFORCEMENT:

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31 GRADE 60 AND BE EPOXY COATED IN ACCORDANCE WITH ASTM A775. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

MODIFICATION CONDITION	#4 BARS	#5 BARS	#6 BARS
1. NONE	16"	17"	21"
2. 12" OF CONCRETE BELOW BAR	18"	22"	27"
3. COATED BARS, COVER < $3d_b$, OR CLEAR SPACING < $6d_b$	21"	26"	31"
4. COATED BARS, ALL OTHER CASES	17"	21"	25"
5. CONDITION 2. AND 3.	23"	29"	35"
6. CONDITION 2. AND 4.	21"	27"	32"

ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS.

SECTION 9 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 08/07/2026 (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	STP/CMQ/TAP-0034(035)X	129	221
PROJECT FILE NO.	609204		

RETAINING WALL CROSS SECTIONS 2 OF 3

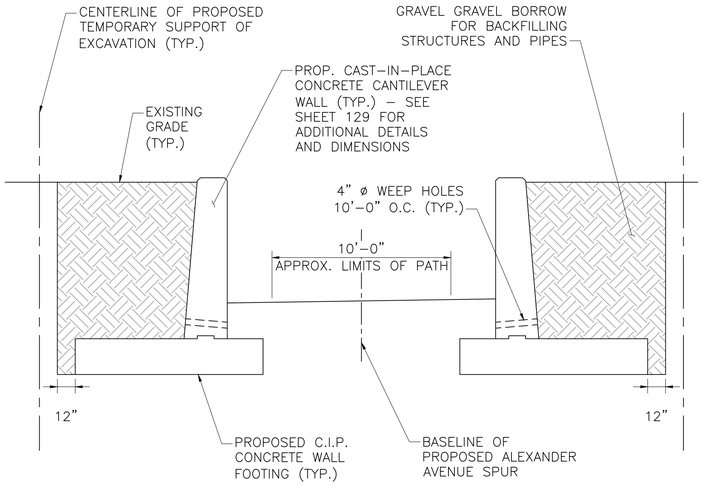
609204_BR(XSEC).DWG Plotted on 23-Sep-2026 7:50 AM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

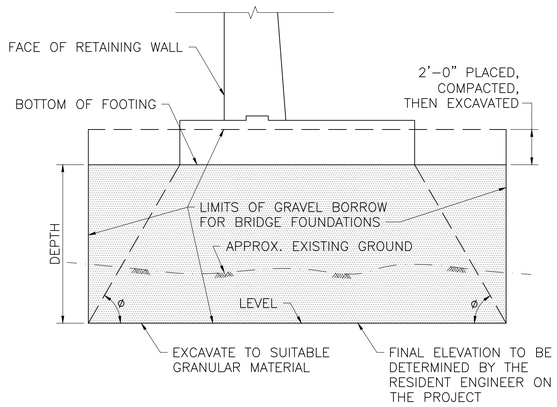
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	130	221
PROJECT FILE NO.	609204		

RETAINING WALL CROSS SECTIONS 3 OF 3

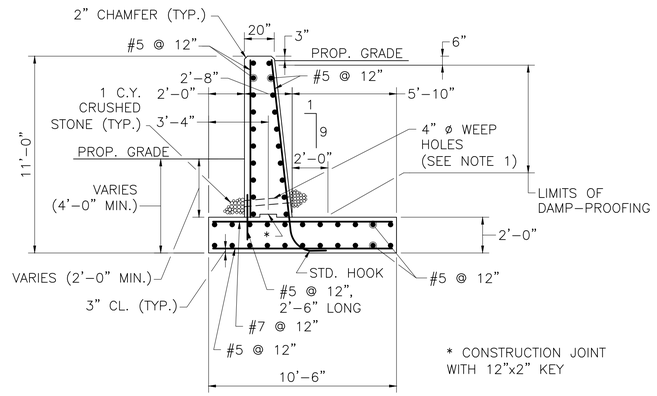
609204_BR(XSEC).DWG Plotted on 23-Sep-2026 7:50 AM



SECTION 10 / 126
SCALE: 1/4" = 1'-0"



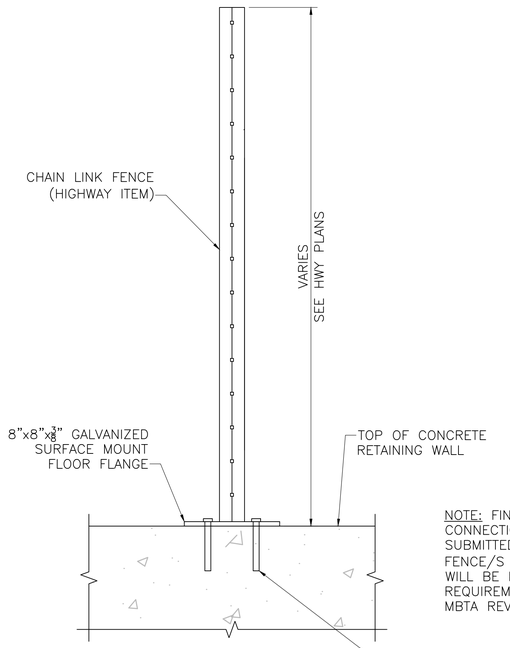
LIMITS OF GRAVEL BORROW
FOR BRIDGE FOUNDATIONS (PATH WALLS)
NOT TO SCALE



SECTION 11 / 126
SCALE: 1/4" = 1'-0"

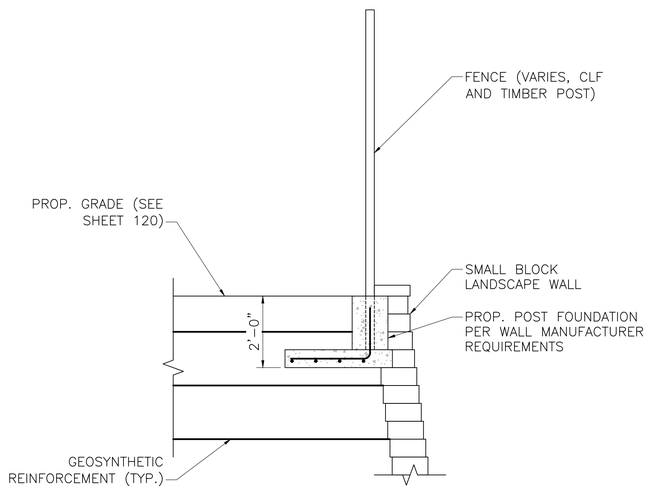
NOTES (WALLS 7 AND 8):

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. REPLACE UNSUITABLE FILL SOILS WITH COMPACTED GRAVEL BORROW FOR BRIDGE FOUNDATION AS NECESSARY, PER GEOTECHNICAL REPORT DATED 08/07/2026.
5. A 4" DEEP STABILIZING LAYER OF CRUSHED STONE SHALL BE PLACED UNDER ALL CANTILEVER WALL FOOTINGS FOUNDED ON COHESIVE SOILS, PER GZA GEOTECHNICAL REPORT DATED 08/07/2026.

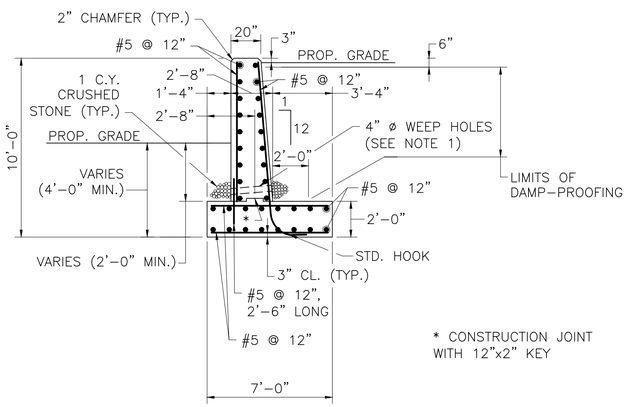


NOTE: FINAL FENCE DESIGN INCLUDING CONNECTIONS ARE TO BE DESIGNED AND SUBMITTED BY THE CONTRACTOR ONCE FENCE/S HAVE BEEN SELECTED. FENCE/S WILL BE REQUIRED TO MEET MBTA REQUIREMENTS AND WILL BE SUBJECT TO MBTA REVIEW AND APPROVAL.

CLF CONNECTION DETAIL
SCALE: 2" = 1'-0"



FENCE POST FOUNDATION
SMALL BLOCK LANDSCAPE RETAINING WALL
SCALE: 1/2" = 1'-0"



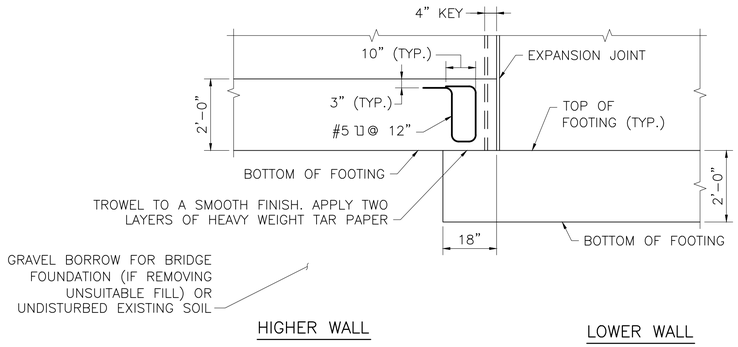
SECTION 12 / 126
SCALE: 1/4" = 1'-0"

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	131	221
PROJECT FILE NO.	609204		

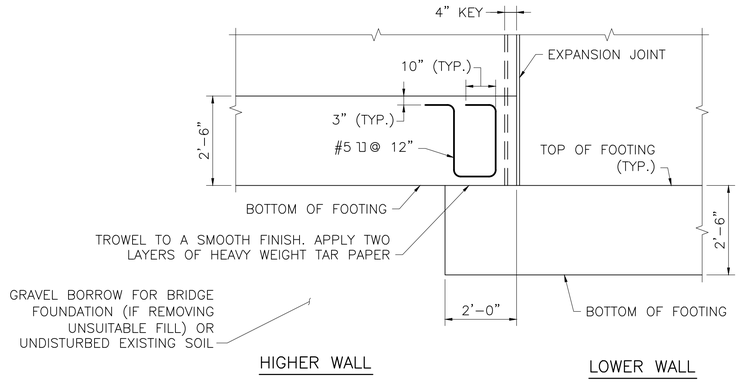
STEPPED-UP FOOTING DETAILS

609204_BR(DETAILS).DWG Plotted on 23-Sep-2026 7:51 AM



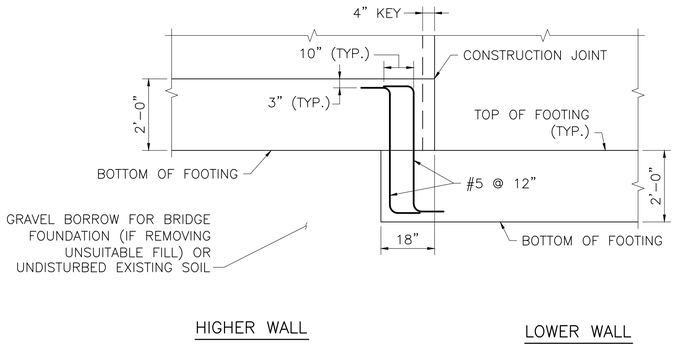
EXPANSION JOINT AT STEPPED–UP
FOOTING DETAIL – WALLS 4–A, 7, 8, AND 9

SCALE: $\frac{1}{2}$" = 1'–0"



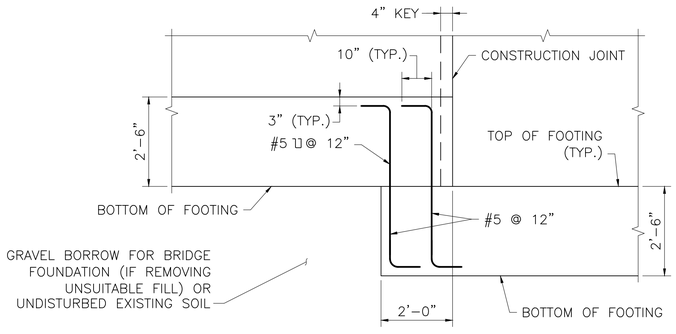
EXPANSION JOINT AT STEPPED–UP
FOOTING DETAIL – WALL 4–A, 4–B, AND 9

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

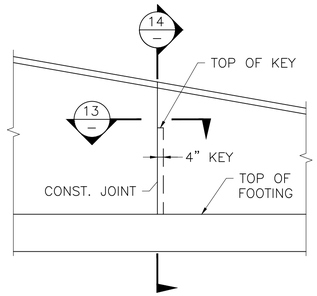
SCALE: $\frac{1}{2}$" = 1'–0"

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

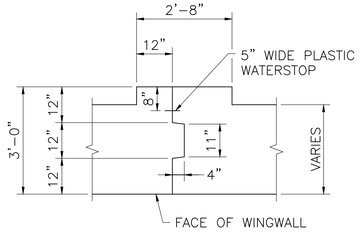
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	132	221
PROJECT FILE NO.	609204		

JOINT DETAILS

609204_BR(DETAILS).DWG Plotted on 23-Sep-2026 7:51 AM



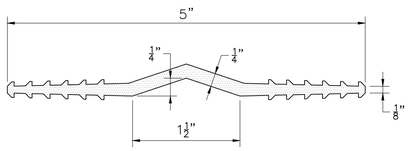
CONSTRUCTION JOINT DETAIL
SCALE: $\frac{1}{4}$" = 1'–0"



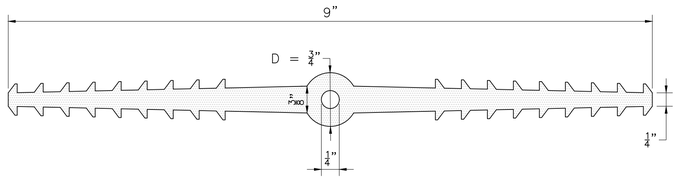
SECTION 13
SCALE: $\frac{1}{2}$" = 1'–0"

SECTION 14
SCALE: $\frac{1}{2}$" = 1'–0"

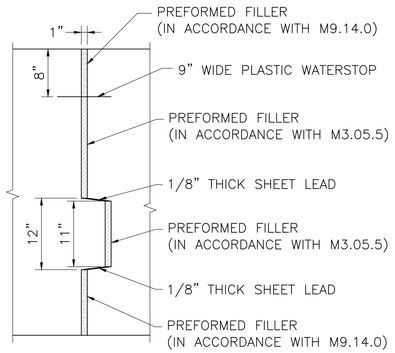
NOTE: REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.



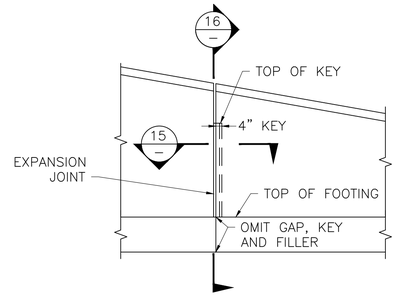
5" WATERSTOP
FULL SIZE



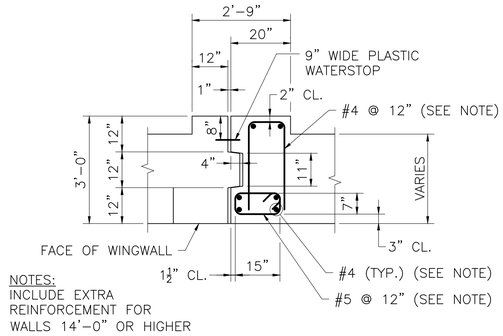
9" WATERSTOP
FULL SIZE



LIMITS OF PREFORMED FILLER
SCALE: 1" = 1'–0"

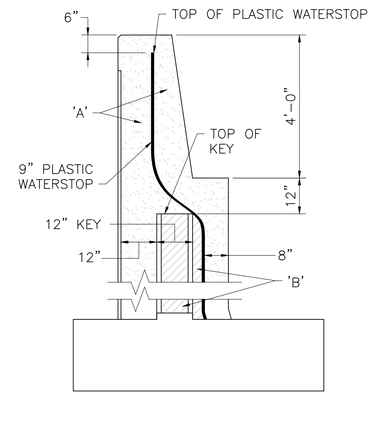


EXPANSION JOINT DETAIL
SCALE: $\frac{1}{4}$" = 1'–0"



NOTES:
INCLUDE EXTRA REINFORCEMENT FOR WALLS 14'–0" OR HIGHER

SECTION 15
SCALE: $\frac{1}{2}$" = 1'–0"



SECTION 16
SCALE: $\frac{1}{2}$" = 1'–0"

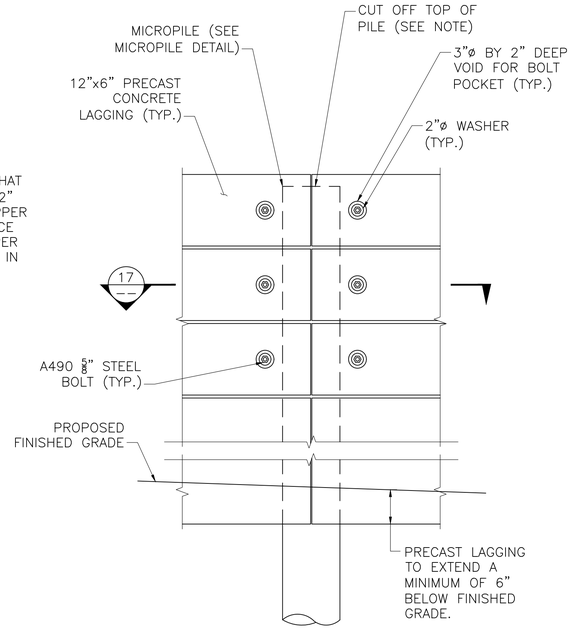
NOTES:
1. LONGITUDINAL REINFORCEMENT SHALL END 2" CLEAR OF EXPANSION JOINT.
2. 'A' – PREFORMED FILLER (IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS M9.14.0).
   'B' – PREFORMED FILLER (IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS M3.05.5).
3. FILLER MATERIAL SHALL BE FASTENED SECURELY TO ONE SIDE OF JOINT.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	133	221
PROJECT FILE NO.	609204		

MICROPILE DETAILS

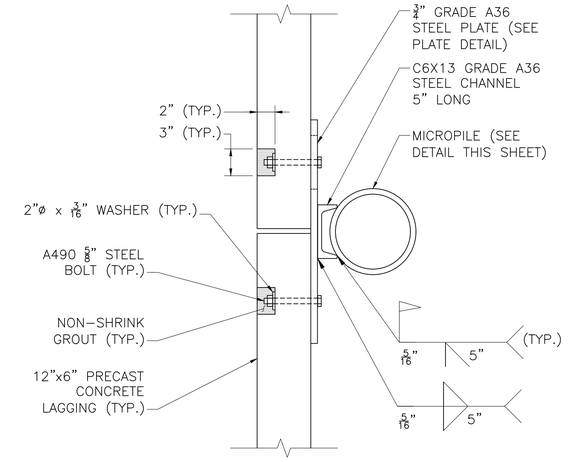
609204_BR(DETAILS).DWG Plotted on 23-Sep-2026 7:51 AM



NOTE: CUTOFF PILE SUCH THAT THE TOP OF PILE WILL BE 2" BELOW THE TOP OF THE UPPER MOST PRECAST LAGGING ONCE THE BRACKET FOR THE UPPER LAGGING HAS BEEN WELDED IN PLACE.

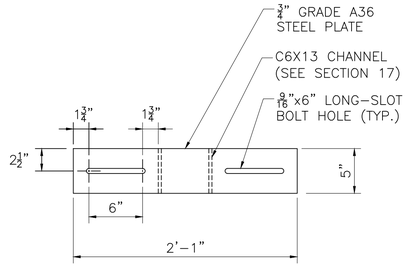
MICROPILE LAGGING CONNECTION DETAIL

SCALE: 1" = 1'–0"



SECTION 17 / –

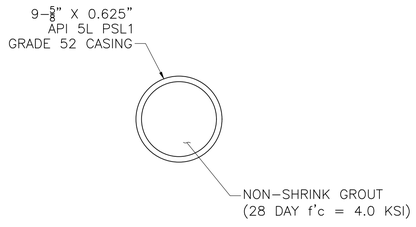
SCALE: 1½" = 1'–0"



NOTE: STEEL FABRICATIONS AND CASING SHALL BE GALVANIZED IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATION SECTION 975. GALVANIZED COATING SHALL ADHERE TO MATERIAL SECTION M7.10.0 AND GALVANIZATION PROCESS AND TOUCH UPS SHALL ADHERE TO MATERIAL SECTION M8.06.9.K.3

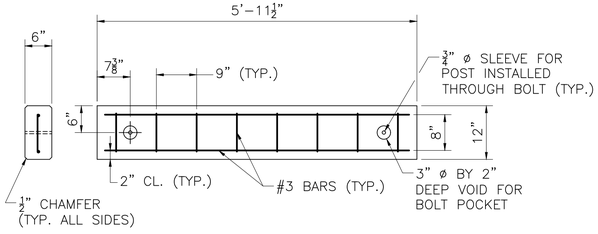
PLATE DETAIL

SCALE: 1½" = 1'–0"



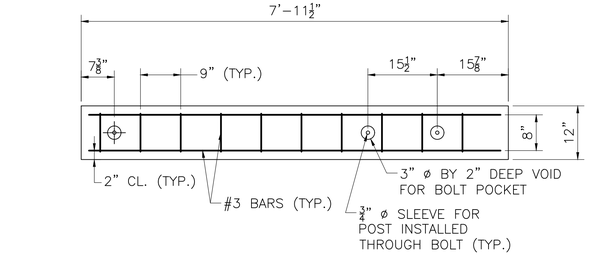
MICROPILE DETAIL

SCALE: 1½" = 1'–0"



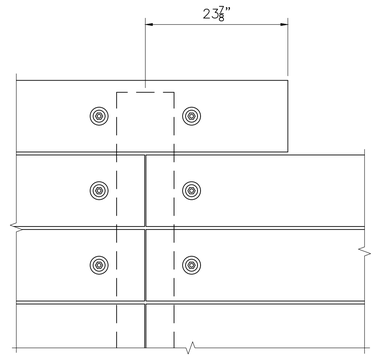
LAGGING REINFORCEMENT DETAIL

SCALE: ¾" = 1'–0"



ALTERNATE LAGGING DETAIL FOR STEP LOCATIONS

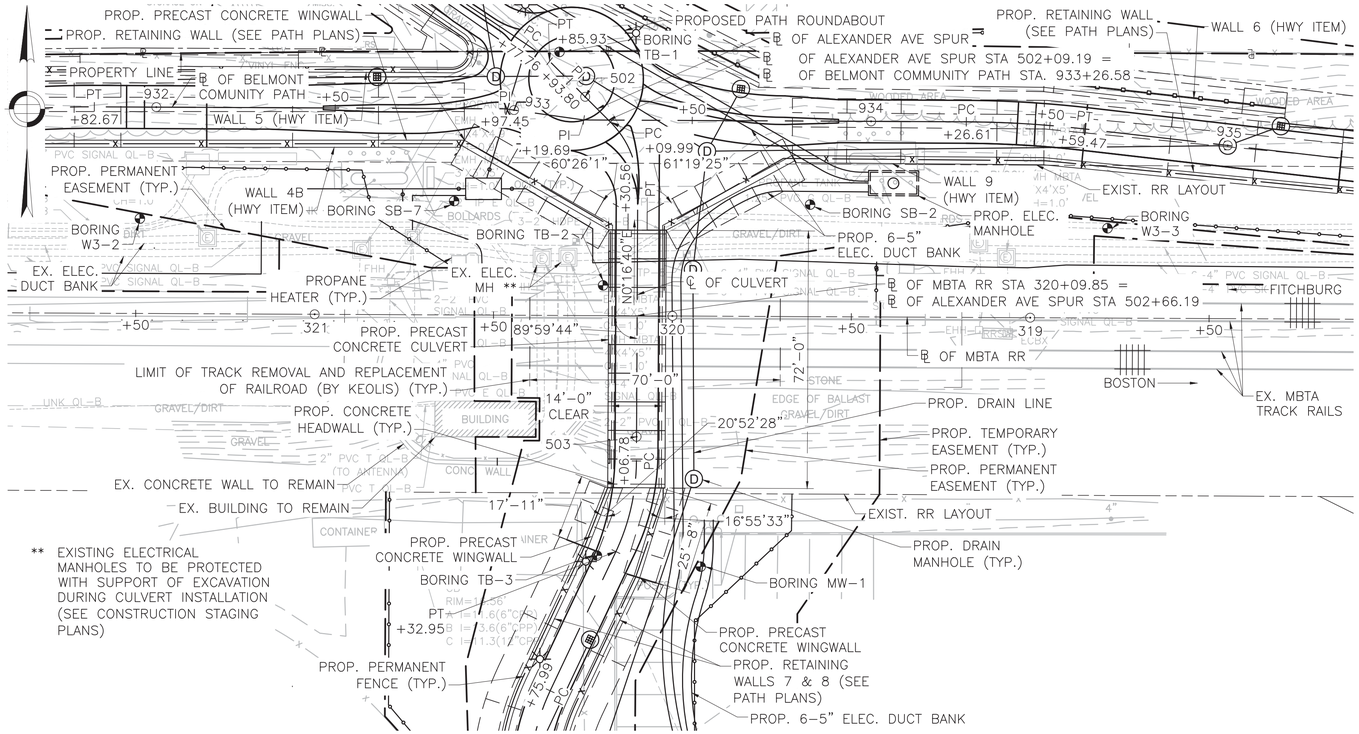
SCALE: ¾" = 1'–0"



NOTE: SIMILAR DETAIL TO BE USED FOR A STEP IN BOTTOM COURSE OF LAGGING

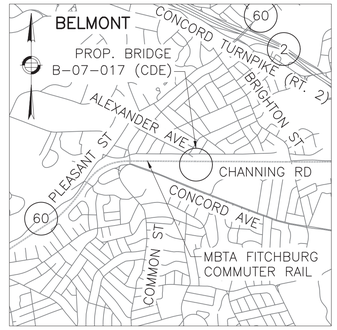
STEP IN WALL LAGGING

SCALE: 1" = 1'–0"



KEY PLAN

SCALE: 1" = 20'



LOCUS

SCALE: 1" = 2000'

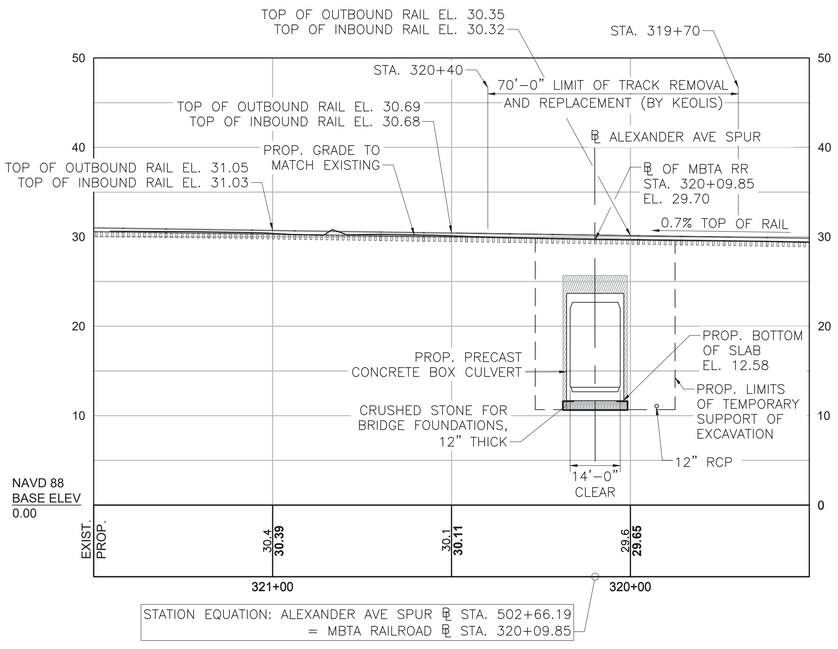
NOTE: SEE HIGHWAY PLANS FOR BASELINE CURVE DATA, SHEETS 25 & 26.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	134	221
PROJECT FILE NO.	609204		

KEY PLAN, PROFILES, LOCUS, AND INDEX

INDEX	
SHEET NO.	DESCRIPTION
1	KEY PLAN, PROFILES, LOCUS, AND INDEX
2	GENERAL NOTES
3	BORING SHEET 1 OF 4
4	BORING SHEET 2 OF 4
5	BORING SHEET 3 OF 4
6	BORING SHEET 4 OF 4
7	GENERAL PLAN AND ELEVATION
8	INLET PLAN & ELEVATION
9	OUTLET PLAN & ELEVATION
10	CONSTRUCTION SEQUENCE STAGE 1
11	CONSTRUCTION SEQUENCE STAGE 2
12	CONSTRUCTION SEQUENCE STAGE 3
13	CONSTRUCTION SEQUENCE STAGE 4
14	CONSTRUCTION SEQUENCE STAGE 5
15	WINGWALL PLAN AND ELEVATION 1 OF 2
16	WINGWALL PLAN AND ELEVATION 2 OF 2
17	CULVERT DETAILS
18	FRAMING PLAN
19	CULVERT AND WINGWALL SECTIONS
20	MISCELLANEOUS DETAILS 1 OF 2
21	MISCELLANEOUS DETAILS 2 OF 2

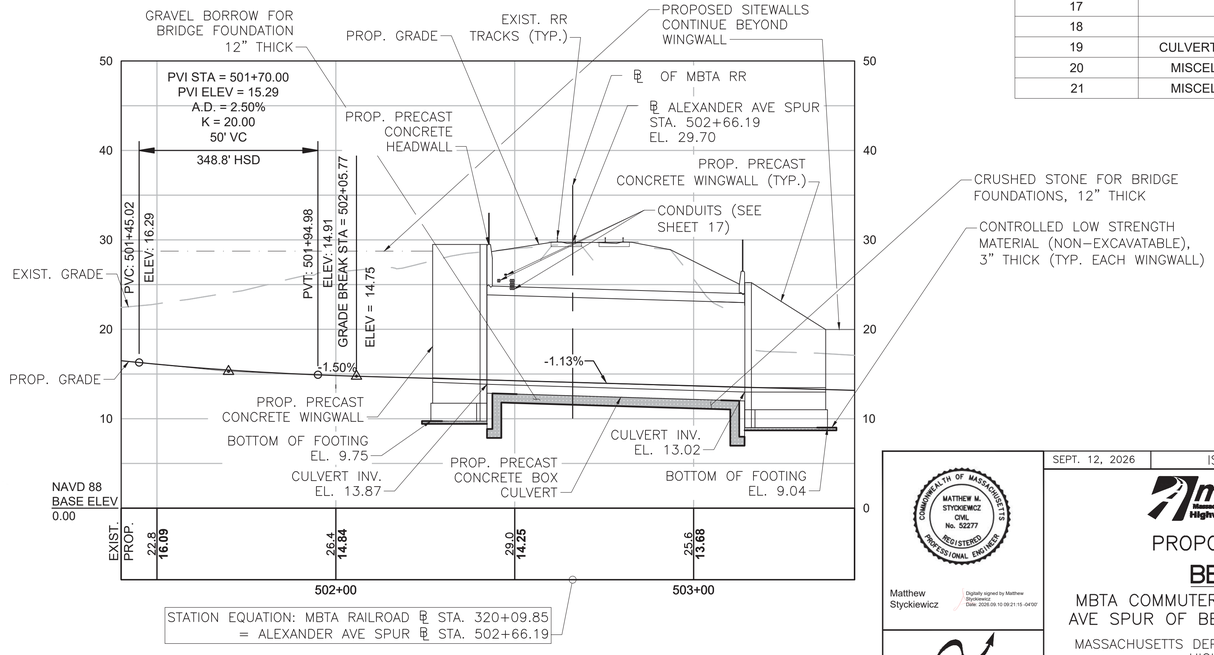


STATION EQUATION: ALEXANDER AVE SPUR ℄ STA. 502+66.19 = MBTA RAILROAD ℄ STA. 320+09.85

PROFILE – MBTA RAILROAD

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: ⅛" = 1'–0"

NOTE: EXISTING MBTA RR BASELINE IS STATIONED FROM EAST TO WEST. EXISTING AND PROPOSED GRADES REPRESENT GROUND ELEVATION ALONG MBTA ALIGNMENT. TOP OF RAIL ELEVATIONS ARE PROVIDED AS A SEPARATE CALLOUT.



STATION EQUATION: MBTA RAILROAD ℄ STA. 320+09.85 = ALEXANDER AVE SPUR ℄ STA. 502+66.19

PROFILE – ALEXANDER AVE SPUR OF BELMONT COMMUNITY PATH

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: ⅛" = 1'–0"

(LOOKING DOWN STATION)

SEPT. 12, 2026 | ISSUED FOR CONSTRUCTION

COMMONWEALTH OF MASSACHUSETTS
MATTHEW M. STYCKIEWICZ
CIVIL
No. 52277
REGISTERED PROFESSIONAL ENGINEER

Matthew Styckiewicz — Digitally signed by Matthew Styckiewicz Date: 2026.09.10 09:21:15 -04'00'

Nitsch Engineering
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Worcester, MA 01608
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► Civil Engineering
► Land Surveying
► Transportation Engineering
► Structural Engineering
► Green Infrastructure
► Planning
► GIS

Massachusetts Department of Transportation
MassDOT Highway Division

PROPOSED BRIDGE
BELMONT
MBTA COMMUTER RAIL OVER ALEXANDER AVE SPUR OF BELMONT COMMUNITY PATH
MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

Alexander K. Bardow, P.E. — Digitally signed by Alexander K. Bardow, P.E. Date: 2026.09.17 11:52:54 -04'00'
STATE BRIDGE ENGINEER

Carrie Lavallee, P.E. — Digitally signed by Carrie Lavallee, P.E. Date: 2026.09.17 11:54:30 -04'00'
CHIEF ENGINEER

SHEET 1 OF 21 SHEETS BRIDGE NO. B-07-017 (CDE)

609204_BR1(B07017).DWG Plotted on 2-Sep-2026 1:40 PM
Final Structural Submittal (SF) 12 - Sept. - 2026

GENERAL NOTES:

DESIGN:

IN ACCORDANCE WITH THE 2025 SPECIFICATIONS OF AMERICAN RAILWAY ENGINEERING AND MAINTENANCE–OF–WAY ASSOCIATION MANUAL FOR RAILWAY ENGINEERING (AREMA) FOR COOPER E80 LOADING USING LOAD FACTOR DESIGN (LFD).

MASSDOT BENCH MARK:

SQ–CUT ON CONCRETE PAD CORNER
N. 2969536.3302 E. 745612.8095 EL. 29.96
ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

MASSDOT SURVEY NOTEBOOKS:

TOPOGRAPHICAL INFORMATION IS BASED ON AN ON–THE–GROUND INSTRUMENT SURVEY PERFORMED BY NITSCH ENGINEERING IN SEPTEMBER 2019 THROUGH MAY 2021 WITH ADDITIONAL SURVEY IN JANUARY 2025. REQUESTS FOR SURVEY FILES SHALL BE MADE TO NITSCH ENGINEERING. NITSCH SURVEY NOTEBOOKS USED IN THE PREPARATION OF THE CONSTRUCTION DRAWINGS: 668, 669, 683, 686, 757, 759, 761, 774, 800, 801, 805, 836, 839, 853.

SCALE:

SCALES AS NOTED ON THE PLANS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS. DIVIDE SCALES BY 2 FOR HALF–SIZE PRINTS (A3).

FOUNDATIONS:

FOUNDATIONS MAY BE ALTERED, IF NECESSARY, TO SUIT CONDITIONS ENCOUNTERED DURING CONSTRUCTION, WITH THE APPROVAL OF THE ENGINEER.

FOUNDATION SUBGRADE:

THE BOX CULVERT SHALL BEAR ON A 12" LAYER OF CRUSHED STONE FOR BRIDGE FOUNDATIONS ABOVE EXISTING FILL MATERIAL OR NATURAL UNDISTURBED STIFF CLAYEY SILT OR SILTY CLAY. THE WINGWALL FOUNDATIONS SHALL BEAR ON A 3" LAYER OF CONTROLLED LOW–STRENGTH MATERIAL (NON–EXCAVATABLE) ABOVE NATURAL UNDISTURBED STIFF CLAYEY SILT OR SILTY CLAY. EXISTING FILL SHALL BE REMOVED BENEATH WINGWALL FOOTINGS DOWN TO NATURAL CLAY.

SUBGRADE PREPARATION:

GRANULAR SUBGRADE SOILS SHALL BE PROOF–ROLLED WITH A MINIMUM OF SIX PASSES OF A 10,000 LB OR HEAVIER VIBRATORY DRUM. ANY LOOSE OR UNSTABLE ZONES ENCOUNTERED DURING PROOF ROLLING SHALL BE DEEMED UNSUITABLE. PROOF ROLLING OF SUBGRADE BELOW GROUNDWATER SHALL BE PERFORMED USING STATIC ROLLING AT THE DISCRETION OF THE ENGINEER. COHESIVE SUBGRADES SHOULD NOT BE PROOF–COMPACTED. FINAL EXCAVATION OF COHESIVE SUBGRADE SHALL BE MADE WITH A SMOOTH–FACED BUCKET TO AVOID DISTURBANCE.

UNSUITABLE MATERIAL:

ANY MATERIALS THAT DO NOT MEET THE FOUNDATION SUBGRADE REQUIREMENTS WILL BE CONSIDERED UNSUITABLE. ALL UNSUITABLE MATERIALS SHALL BE REMOVED WITHIN THE LIMITS OF THE FOUNDATIONS OF THE STRUCTURE, AS DIRECTED BY THE ENGINEER, AND REPLACED WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS. DETERMINATION OF UNSUITABLE MATERIAL TO BE MADE BY THE ENGINEER.

ANCHOR BOLTS:

ALL ANCHOR BOLTS SHALL BE SET BY TEMPLATE BEFORE THE CONCRETE IS PLACED.

CONCRETE:

ALL CONCRETE SHALL BE 5000 HP CONCRETE UNLESS OTHERWISE NOTED ON THE PLANS.

ESTIMATED QUANTITIES (NOT GUARANTEED)

ITEM	QTY.	UNIT
CONSTRUCTION VIBRATION CONTROL	1	LS
VIBRATION AND DEFORMATION MONITORING MBTA ASSETS – BRIDGE	1	LS
BRIDGE EXCAVATION	2480	CY
CLASS B ROCK EXCAVATION	280	CY
GRAVEL BORROW FOR BRIDGE FOUNDATION	20	CY
GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES	1150	CY
CRUSHED STONE FOR BRIDGE FOUNDATIONS	620	TON
CONTROLLED LOW–STRENGTH MATERIAL – MECHANICAL EXCAVATABLE (101–300 PSI)	115	CY
CONTROLLED LOW–STRENGTH MATERIAL (>300 PSI)	20	CY
DISPOSAL OF REGULATED SOIL – OUT–OF–STATE FACILITY	4465	TON
CURB REMOVED AND RESET – BRIDGE	90	FT
GEOTEXTILE FABRIC FOR PERMANENT EROSION CONTROL	290	SY
HOT MIX ASPHALT SIDEWALK OR DRIVEWAY – BRIDGE	15	TON
PAVEMENT MARKINGS – 6 INCH (PAINTED) – BRIDGE	70	FT
TEMPORARY SUPPORT OF EXCAVATION – BRIDGE	1	LS
BRIDGE STRUCTURE, BRIDGE NO. B–07–017 (CDE)	1	LS
REMOVAL AND REPLACEMENT OF RAILROAD (BY KEOLIS)	140	FT

REINFORCEMENT:

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615/A706 PER AREMA VOL. 2, CH. 8, SEC. 16.2.5. REINFORCING STEEL SHALL BE EPOXY COATED IN ACCORDANCE WITH ASTM A775 PER THE REQUIREMENTS OF AREMA VOL. 2, CH. 8, SEC. 16.2.5. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

MODIFICATION CONDITION	#4 BARS	#5 BARS	#6 BARS
1. NONE	17"	21"	26"
2. 12" OF CONCRETE BELOW BAR	24"	30"	36"
3. COATED BARS, COVER < $3d_b$, OR CLEAR SPACING < $6d_b$	26"	32"	38"
4. COATED BARS, ALL OTHER CASES	21"	26"	31"
5. CONDITION 2. AND 3.	29"	36"	43"
6. CONDITION 2. AND 4.	29"	36"	43"

ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS.

DATE:

TO BE PLACED ON THE OUTSIDE FACE OF THE CULVERT HEADWALL. SEE SHEET 8 FOR DETAILS. THE DATE USED SHALL BE THE LATEST YEAR OF CONTRACT COMPLETION AS OF THE DATE THE HEADWALL IS CONSTRUCTED. BOTH THE INLET AND OUTLET HEADWALLS SHALL FEATURE THE SAME DATE.

TOP OF RAIL:

CONTRACTOR TO SURVEY TOP OF RAIL AT THE BRIDGE LOCATION TO CONFIRM TOP OF RAIL ELEVATIONS PRIOR TO REMOVING RAIL. RAILS SHALL BE RESET WITH THE SAME TOP OF RAIL AS EXISTING.

GEOTECHNICAL REPORT:

THE GEOTECHNICAL REPORT: BELMONT COMMUNITY PATH PHASE 1 – BRIDGE B–07–017, DATED AUGUST 7, 2026 WAS PREPARED BY GZA GEOENVIRONMENTAL, INC. OF NORWOOD, MA.

ANTI–GRAFFITI COATING:

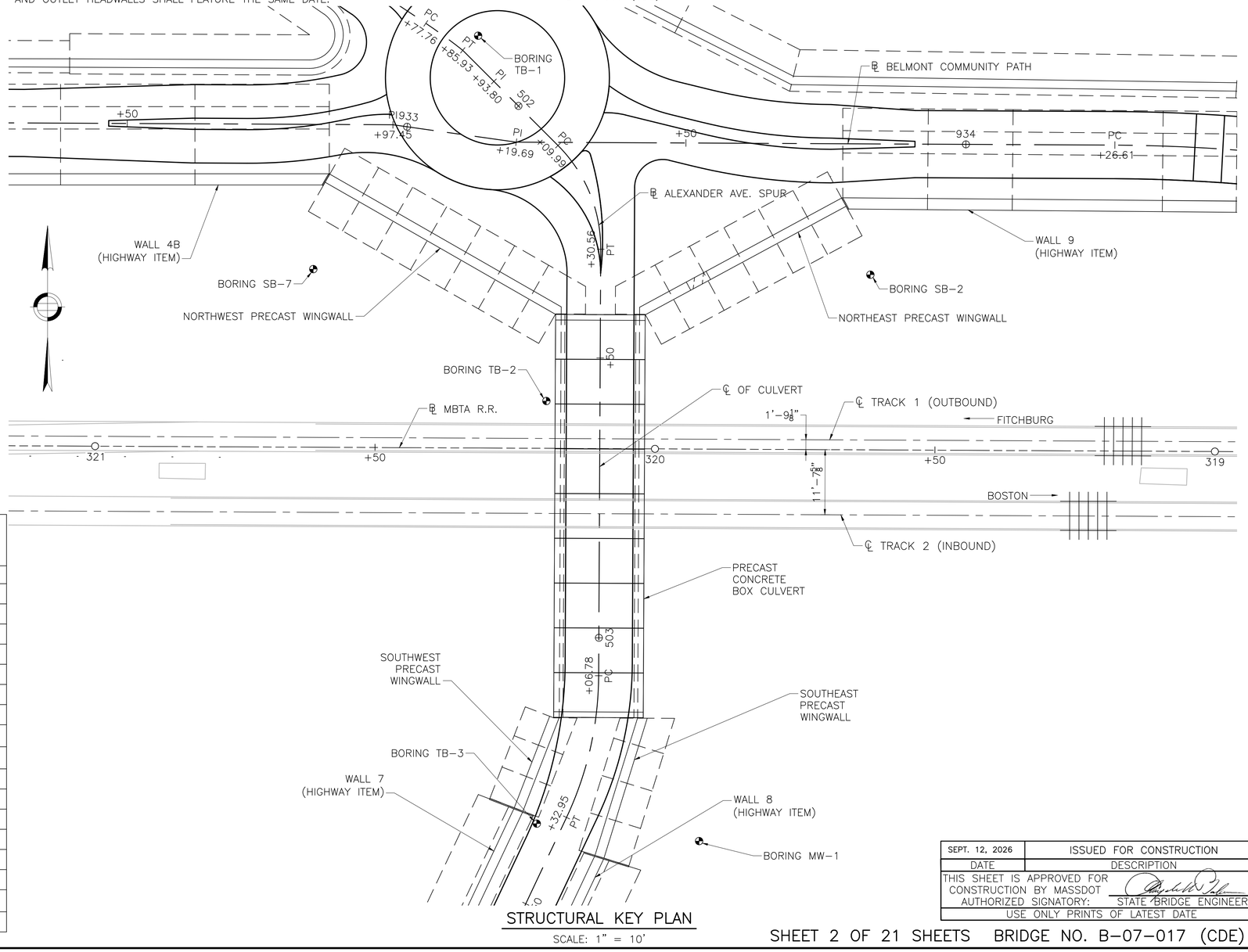
ALL EXPOSED CONCRETE SURFACES SHALL RECEIVE A LIQUID PENETRANT SEALANT IN ACCORDANCE WITH SECTION M9.15.0 OF THE MASSDOT STANDARD SPECIFICATIONS AND A COMPATIBLE ANTI–GRAFFITI COATING APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, TO BE PAID FOR UNDER ITEM 995.01 BRIDGE STRUCTURE, BRIDGE NO. B–07–017 (CDE).

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP–0034(035)X	135	221
PROJECT FILE NO.	609204		

GENERAL NOTES

AREMA SEISMIC DESIGN CRITERIA	
DESIGN RETURN PERIOD:	2,475
DESIGN SPECTRA	
SITE CLASS	DE
PGA	0.159
PGV	9.088
Ss	0.294
S1	0.101



STRUCTURAL KEY PLAN

SCALE: 1" = 10'

SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION

THIS SHEET IS APPROVED FOR CONSTRUCTION BY MASSDOT AUTHORIZED SIGNATORY: STATE BRIDGE ENGINEER

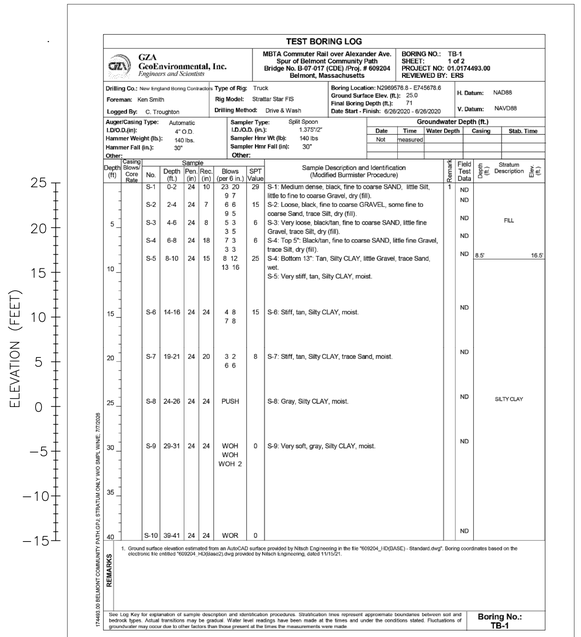
USE ONLY PRINTS OF LATEST DATE

609204_BR2(B07017).DWG Plotted on 2-Sep-2026 1:40 PM
Final Structural Submittal (SF) 12 - Sept. - 2026

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	136	221
	PROJECT FILE NO. 609204		

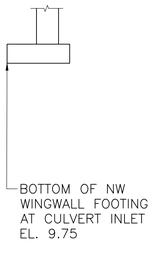
BORING SHEET 1 OF 4

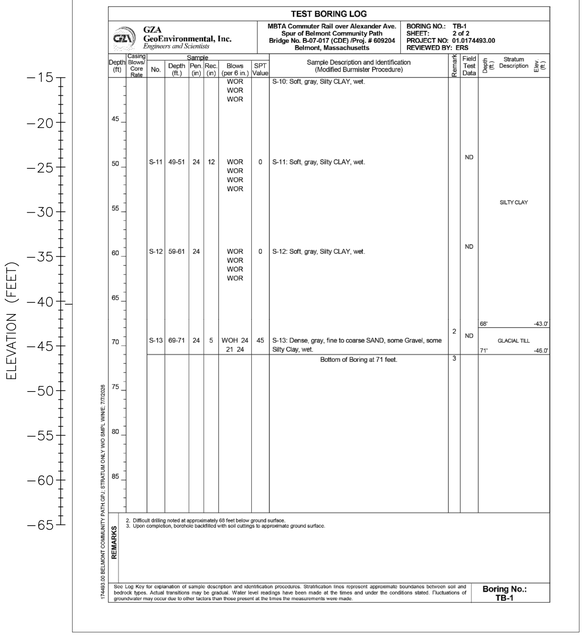


BORING TB–1 (1 OF 2)

SCALE: 1/8" = 1'–0"

STA. 501+86.03 OFF: 3.78' R
N: 2969567.7053
E: 745686.3496





BORING TB–1 (2 OF 2)

SCALE: 1/8" = 1'–0"

SUPPLEMENTAL BORINGS:

BORINGS W3–4 AND SB–6 ARE ASSOCIATED WITH NON–BRIDGE RETAINING WALLS, AND ARE NOT SHOWN ON THE BRIDGE KEY PLAN OR BRIDGE BORING LOGS. HOWEVER, DUE TO THEIR PROXIMITY TO BRIDGE B–07–017, THESE BORING LOGS WERE CONSIDERED IN THE PREPARATION OF BRIDGE B–07–017 GEOTECHNICAL REPORT AND WERE USED IN THE CREATION OF THE GEOTECHNICAL SUB–GRADE PROFILES AT THE BRIDGE SITE. PLEASE REFERENCE THE HIGHWAY PLAN BORING LOGS, OR THE BRIDGE B–07–017 GEOTECHNICAL REPORT DATED JUNE 30, 2026 FOR THOSE BORING LOGS.

BORING NOTES:

1. LOCATION OF BORINGS SHOWN ON THE PLANS THUS: ⊕XX–#
2. BORINGS ARE TAKEN FOR THE PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW THE NATURE OF MATERIAL 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 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.
6. BORINGS TB–1 AND TB–3 WERE MADE BETWEEN JUNE 26 AND 30, 2020. BORINGS TB–2, W3–2, AND W3–3 WERE MADE BETWEEN AUGUST 23 AND SEPTEMBER 1, 2021. BORING MW–1 WAS MADE ON APRIL 29, 2024.

   BORINGS SB–2 AND SB–7 WERE MADE BETWEEN MARCH 3 AND MARCH 18, 2026.
7. BORINGS WERE MADE BY NEW ENGLAND BORING CONTRACTORS, 1215 WEST CHESTNUT STREET, BROCKTON, MA 02301.
8. THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS USED THROUGHOUT.

GROUND WATER:

THE WATER LEVELS RECORDED IN THE TABLES ARE THOSE MEASURED ON THE DATES GIVEN AND DO NOT NECESSARILY REPRESENT GROUND WATER LEVEL AT TIME OF CONSTRUCTION.

GROUNDWATER MONITORING WELL READINGS – TB–3			
DATE	STABILIZATION TIME (DAYS)	WATER LEVEL BELOW GROUND SURFACE (FT)	GROUNDWATER ELEVATION (FT)
7/12/2020	12	5.1	12.3
7/13/2020	13	4.1	13.3
7/17/2020	17	4.0	13.4
7/24/2020	24	4.0	13.4
8/4/2020	35	4.2	13.2
8/10/2020	41	4.2	13.2
8/14/2020	45	4.3	13.1

GROUNDWATER MONITORING WELL READINGS – MW–1			
DATE	STABILIZATION TIME (DAYS)	WATER LEVEL BELOW GROUND SURFACE (FT)	GROUNDWATER ELEVATION (FT)
5/14/2024	15	2.4	14.3
8/13/2024	101	2.9	13.8

SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION

THIS SHEET IS APPROVED FOR CONSTRUCTION BY MASSDOT AUTHORIZED SIGNATORY: STATE BRIDGE ENGINEER

USE ONLY PRINTS OF LATEST DATE

609204_BR3-6(B07017).DWG Plotted on 2-Sep-2026 1:40 PM
Final Structural Submittal (SF) 12 - Sept. - 2026

BORING NOTES

SEE BORING NOTES ON SHEET 2.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	137	221
	PROJECT FILE NO. 609204		

BORING SHEET 2 OF 4

TEST BORING LOG

GZA GeoEnvironmental, Inc. *Engineers and Scientists*

MBTA Commuter Rail over Alexander Ave.
Spur of Belmont Community Path
Bridge No. B-07-017 (CDE) /Proj. # 609204
Belmont, Massachusetts

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

Drilling Co.: New England Boring Contractors **Type of Rig:** ATV **Boring Location:** N2969518.9 - E745698.2
Foreman: Jim Mentkiewicz **Rig Model:** Soil Scout **Ground Surface Elev. (ft.):** 29.6 **H. Datum:** NAD88
Logged By: A. Lupo **Drilling Method:** Drive & Wash **Final Boring Depth (ft.):** 26 **V. Datum:** NAVD88
Date Start - Finish: 8/31/2021 - 9/1/2021

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				

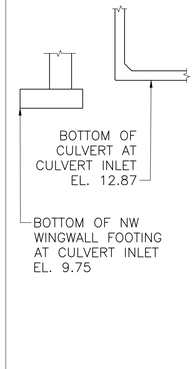
Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)
		S-1	0-2	Grab				S-1: Brown/dark brown/black, fine to coarse SAND and GRAVEL, little Silt, trace (-) Organics, dry.	2 3				
5		S-2	4-6	Grab				S-2: Brown/dark brown, fine to coarse SAND and GRAVEL, little Silt, dry.	4			FILL	
10		S-3	9-11	24	8	4 6 5 4	11	S-3: Medium dense, tan/brown, fine to coarse SAND, some fine Gravel, little Silt, wet.			12.5		17.1
15		S-4	14-16	24	15	14 12 15 20	27	S-4: Very stiff, tan/brown, SILT & CLAY, wet.					
20		S-5	19-21	24	24	7 10 16 14	26	S-5: Very stiff, tan/brown, SILT & CLAY, wet.				SILTY CLAY	
25		U-6	24-26	24	24	Push/24"	R	U-6: Gray, Silty CLAY, wet.			26'		3.6'
						Bottom of Boring at 26 feet.			5				

ELEVATION (FEET)

REMARKS
1. Ground surface elevation estimated from an AutoCAD surface provided by Nitsch Engineering in the file "609204_(-ID(SASE) - Standard.dwg". Boring coordinates based on the electronic file entitled "609204 HUSdata(2).dwg provided by Nitsch Engineering, dated 11/13/21.
2. Boring vacuum excavated to a depth of approximately 6 feet below ground surface (bgs) to clear for utilities on 8/30/2021. Soil excavated was visually classified based on grab samples.
3. Boring was advanced using drive and wash techniques and HW casing to 17 feet bgs. Upon completion of the vacuum excavation.
4. Boring was advanced using cased drilling methods to a depth of approximately 14 feet bgs. Boring advanced upon hole thereafter.
5. Grinding and color change observed (black to brown/dark brown) at 6 to 7 foot below ground surface (bgs).
5. 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.: TB-2



BORING TB–2

SCALE: 1/8" = 1'–0"

STA. 502+57.73 OFF: 9.59' L
N: 2969502.4346
E: 745698.5306

TEST BORING LOG

GZA GeoEnvironmental, Inc. *Engineers and Scientists*

MBTA Commuter Rail over Alexander Ave.
Spur of Belmont Community Path
Bridge No. B-07-017 (CDE) /Proj. # 609204
Belmont, Massachusetts

BORING NO.: SB-7
SHEET: 1 of 1
PROJECT NO: 01.0174493.00
REVIEWED BY: ERS

Drilling Co.: New England Boring Contractors **Type of Rig:** Truck **Boring Location:** N2969526 - E745656.9
Foreman: Pat Schofield **Rig Model:** Mobile B-53 **Ground Surface Elev. (ft.):** 28.9 **H. Datum:** NAD88
Logged By: Mackenzie Meschwitz **Drilling Method:** Drive & Wash **Final Boring Depth (ft.):** 36 **V. Datum:** NAVD88
Date Start - Finish: 3/3/2026 - 3/13/2026

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

Sampler Type: Split Spoon **I.D./O.D. (in.):** 1-3/8"/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
3/13/2026	1300	9.65	16	1 hr

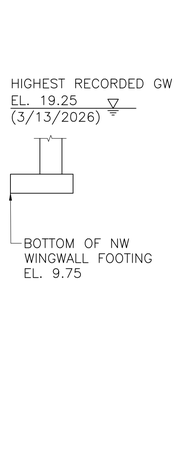
Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)
		GS-1	1.6-6					GS-1: Brown, fine to medium SAND, little fine to coarse Gravel, little Silt.	2 3				
5		S-1	6-8	24	11	27 16 13 6	29	S-1A: (Top 6") Gray, fine to coarse SAND, little Silt. S-1B: (Bottom 5") Black to dark brown, fine to coarse SAND, some Gravel, little Silt.				FILL	
		S-2	8-10	24	6	2 WOH	0	S-2: Very loose, light brown, fine to medium SAND, some Silt, little Gravel, trace debris.					
10		S-3	10-12	24	10	WOH 4 3	5	S-3: Loose, brown to gray, fine to coarse SAND and GRAVEL, little Silt.			12'		16.9'
		S-4	12-14	24	18	2 5 4 8	20	S-4: Very stiff, light brown, Silty CLAY. PP= 5.0 tsf.					
15		S-5	14-16	24	23	12 16 22 21	38	S-5: Hard, brown, Silty CLAY. PP= 5.0 tsf.	4				
						17 14							
20		S-6	19-21	24	24	3 4 5 5	9	S-6: Stiff, brown, Silty CLAY.					
		S-7	24-26	24	24	3 4 4 10	8	S-7A: (Top 12") Brown, Silty CLAY. S-7B: (Bottom 12") Brown, Silty CLAY, little fine to medium SAND.				SILT AND CLAY	
25		S-8	29-31	24	24	3 2 WOH WOH	2	S-8: Very soft, gray to blue, Silty CLAY.					
30		S-9	34-36	24	24	WOH WOH WOH WOH	0	S-9: Very soft, gray to blue, Silty CLAY.			36'		-7.1'
						Bottom of Boring at 36 feet.			5				

ELEVATION (FEET)

REMARKS
1. Boring coordinates based on the handheld GPS data taken by GZA. Ground surface elevation for the as-drilled boring location provide by Nitsch Engineering, via email on March 26, 2026.
2. Boring pre-excavated using vacuum truck to depth of 6 feet below ground surface (bgs) on 3/3/2026 using a VacMasters System 5000. Borehole was then temporarily backfilled with cuttings.
3. Borehole advanced using drive and wash techniques and HW casing to 16 feet bgs.
4. Borehole advanced boring from 16 to 36 foot bgs using open hole techniques.
5. Boring terminated at 36 feet bgs. Upon completion, the borehole was backfilled with soil cuttings to ground surface and the area raked

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.: SB-7



BORING SB–7

SCALE: 1/8" = 1'–0"

STA. 501+94.57 OFF: 46.53 R
N: 2969526
E: 745656.9

TEST BORING LOG

GZA GeoEnvironmental, Inc. *Engineers and Scientists*

MBTA Commuter Rail over Alexander Ave.
Spur of Belmont Community Path
Bridge No. B-07-017 (CDE) /Proj. # 609204
Belmont, Massachusetts

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

Drilling Co.: New England Boring Contractors **Type of Rig:** Truck **Boring Location:** N2969525 - E745756.4
Foreman: Pat Schofield **Rig Model:** Mobile B-53 **Ground Surface Elev. (ft.):** 29.4 **H. Datum:** NAD88
Logged By: Mackenzie Meschwitz **Drilling Method:** Drive & Wash **Final Boring Depth (ft.):** 36 **V. Datum:** NAVD88
Date Start - Finish: 3/3/2026 - 3/12/2026

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

Sampler Type: Split Spoon **I.D./O.D. (in.):** 1-3/8"/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
3/12/2026	1350	7.1	17	2 hrs

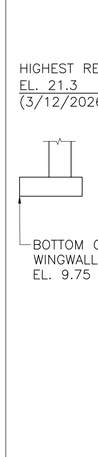
Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Depth (ft.)	Stratum Description	Elev. (ft.)
		GS-1	2-2.5					GS-1: Light brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt.	1 2 3				
5		S-1	9-11	24	4	3 4 3 WOH	7	S-1: Loose, brown, fine to coarse SAND, some Gravel, little Silt.				FILL	
		S-2	11-13	24	2	WOH 3 5 8	8	S-2: Loose, brown, fine to coarse SAND, some Silt, little Gravel.					
10		S-3	13-15	24	24	5 11 14 17	25	S-3: Very stiff, gray to blue, Silty CLAY.			13'		15.4'
		S-4	15-17	24	24	15 19 18 14	37	S-4: Hard , brown and gray, Silty CLAY, trace Gravel. PP=4.3 tsf.	4				
15		S-5	19-21	24	24	4 6 8 10	14	S-5: Stiff, brown, Silty CLAY. PP=3.75 tsf.					
20		S-6	24-26	24	10	3 4 9 8	13	S-6: Stiff, gray to brown, Silty CLAY, little fine to medium SAND. PP=2.9 tsf.				SILTY CLAY	
25		S-7	29-31	24	24	WOH WOH WOH WOH	0	S-7: Very soft, gray to blue, Silty CLAY. PP=1.25 tsf.					
30		S-8	34-36	24	17	WOH WOH WOH WOH	0	S-8: Very soft, gray to blue, Silty CLAY. PP=0.75 tsf.			36'		-7.6'
						Bottom of Boring at 36 feet.			5				

ELEVATION (FEET)

REMARKS
1. Boring coordinates based on the handheld GPS data taken by GZA. Ground surface elevation for the as-drilled boring location provide by Nitsch Engineering, via email on March 26, 2026.
2. Boring pre-excavated using vacuum truck to depth of 8.5 feet below ground surface (bgs) on 3/3/2026 using a VacMasters System 5000. Borehole was then temporarily backfilled with cuttings.
3. Boring advanced using drive and wash techniques and HW casing to 17 feet bgs.
4. Borehole advanced boring from 17 to 36 foot bgs using open hole techniques.
5. Boring terminated at 36 feet bgs. Upon completion, the borehole was backfilled with soil cuttings to ground surface and the area raked.

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.: SB-2



BORING SB–2

SCALE: 1/8" = 1'–0"

STA. 502+34.83 OFF: 48.03 L
N: 2969525
E: 745756.4

SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION

THIS SHEET IS APPROVED FOR CONSTRUCTION BY MASSDOT
AUTHORIZED SIGNATORY: STATE BRIDGE ENGINEER
USE ONLY PRINTS OF LATEST DATE

609204_BR3-6(B07017).DWG Plotted on 2-Sep-2026 1:41 PM
Final Structural Submittal (SF) 12 - Sept. - 2026

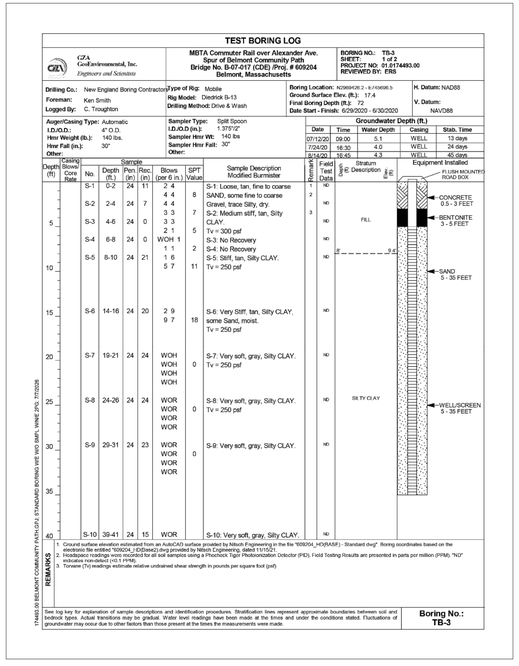
BORING NOTES

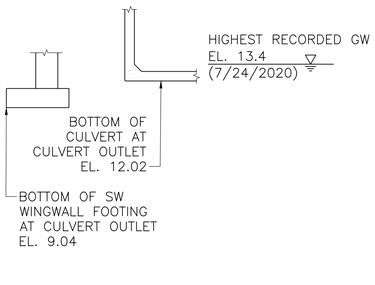
SEE BORING NOTES ON SHEET 2

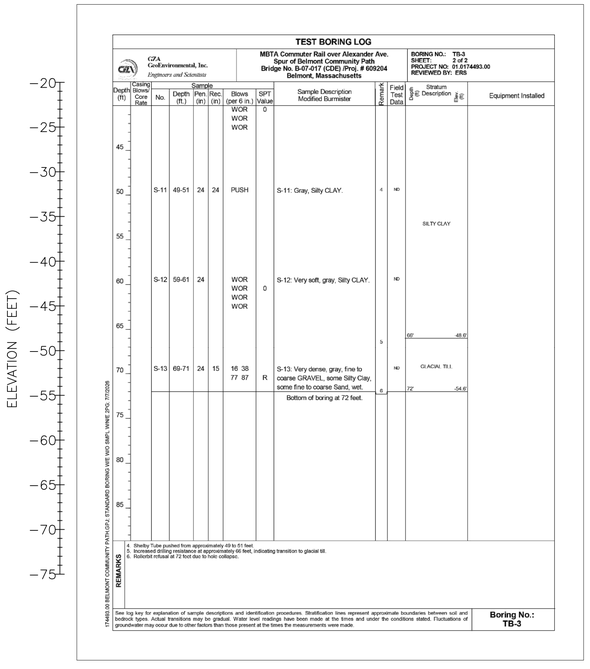
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	138	221
PROJECT FILE NO.	609204		

BORING SHEET 3 OF 4







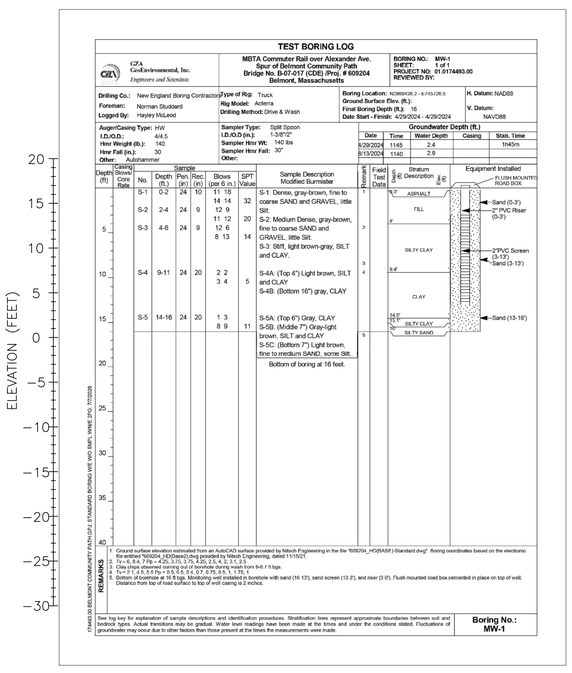
BORING TB−3 (1 OF 2)

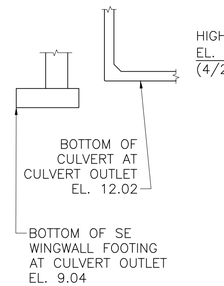
SCALE: 1/8" = 1'−0"

STA. 503+36.22 OFF: 4.34' L
N: 2969426.9165
E: 745696.8122

BORING TB−3 (2 OF 2)

SCALE: 1/8" = 1'−0"





BORING MW−1

SCALE: 1/8" = 1'−0"

STA. 502+41.08 OFF: 131.34' R
N: 2969426.158
E: 745726.537

SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION

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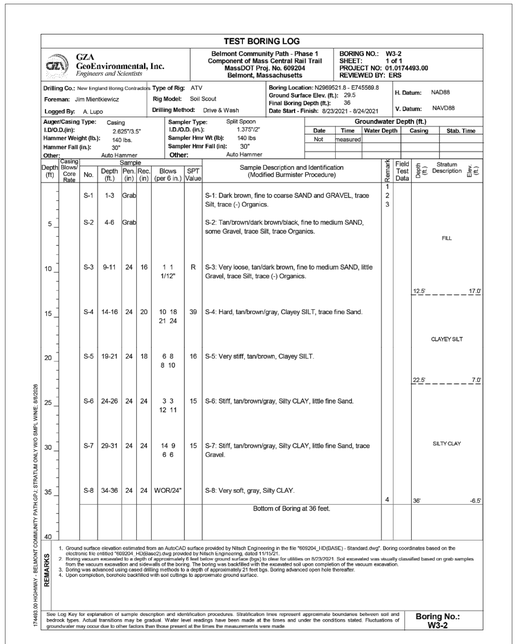
BORING NOTES

SEE BORING NOTES ON SHEET 2.
THE BORINGS ON THIS SHEET ARE RELATED TO HIGHWAY WALLS, BUT ARE IN CLOSE PROXIMITY TO THE BRIDGE LOCATION, AND WERE USED FOR PRELIMINARY DESIGN OF THE BRIDGE AND WINGWALL BEFORE SUPPLEMENTAL BRIDGE BORINGS WERE PERFORMED.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	139	221
PROJECT FILE NO.	609204		

BORING SHEET 4 OF 4

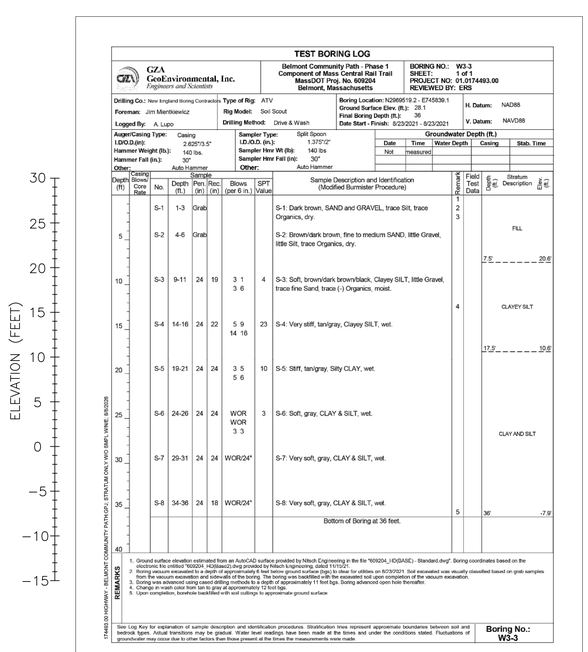


BOTTOM OF WALL 4A
(SEE PATH PLANS)
EL.16.08

BORING W3–2 (WALL 4A – HIGHWAY ITEM)

SCALE: $\frac{1}{8}$" = 1'–0"

STA. 501+15.22 OFF: 100.58' L
N: 2969521.1134
E: 745569.0745



BOTTOM OF WALL 9
(SEE PATH PLANS)
EL. 10.67

BORING W3–3 (WALL 9 – HIGHWAY ITEM)

SCALE: $\frac{1}{8}$" = 1'–0"

STA. 502+41.08 OFF: 131.34' R
N: 2969518.4018
E: 745839.5128

DATE	DESCRIPTION
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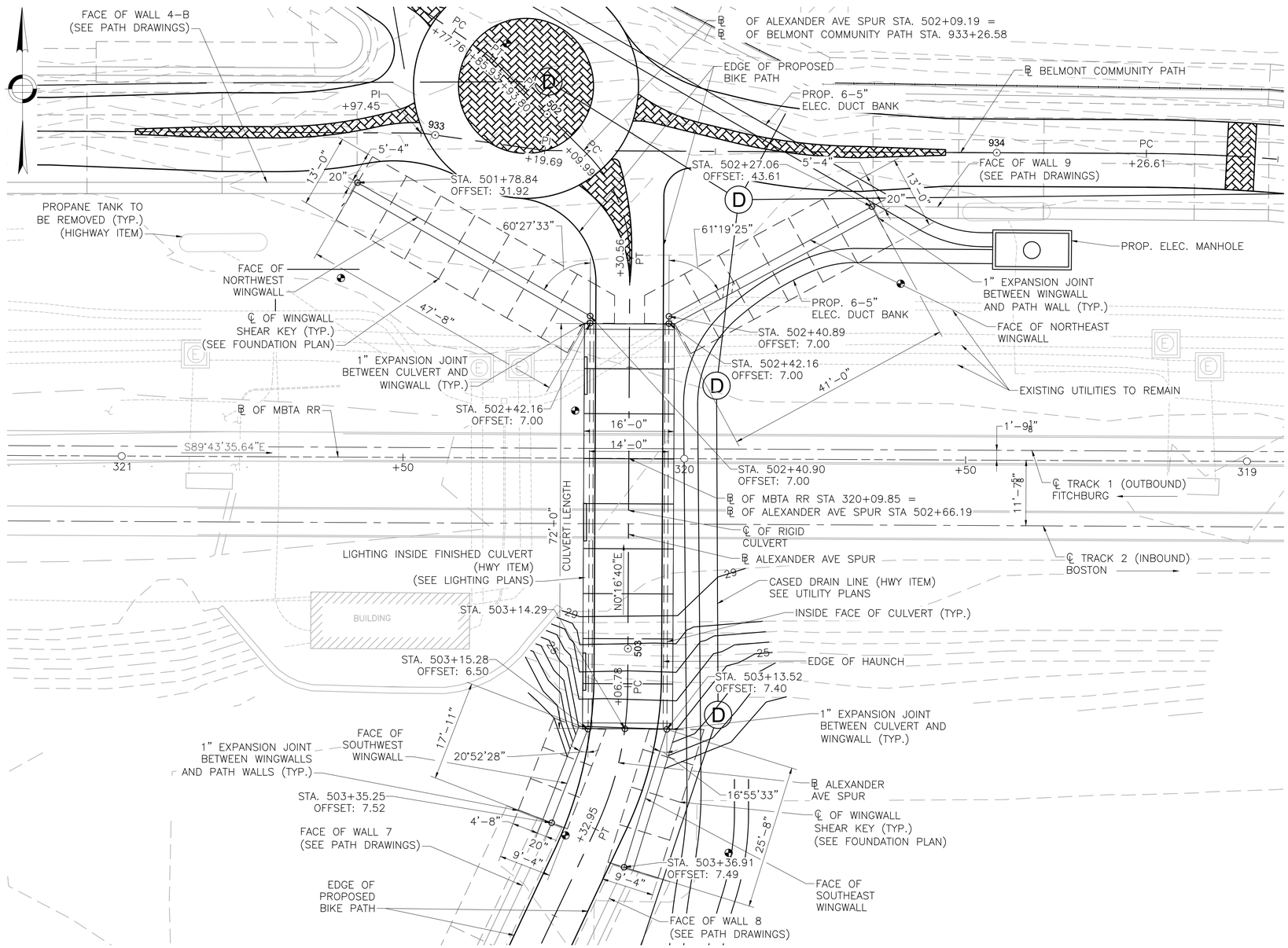
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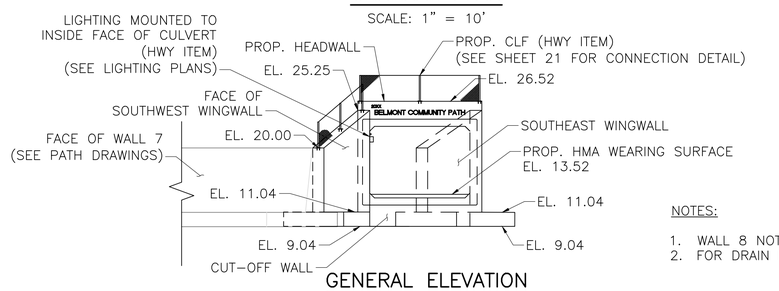
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	140	221
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GENERAL PLAN AND ELEVATION



GENERAL PLAN
SCALE: 1" = 10'



GENERAL ELEVATION
SCALE: 1" = 10'

NOTE: ALL PROPOSED GRADES ABOVE THE UNDERPASS AND BEHIND WINGWALLS SHALL MATCH EXISTING GRADES WITH THE EXCEPTION OF A SMALL AREA ABOVE THE SOUTH END OF THE UNDERPASS AS SHOWN.

NOTES:

1. WALL 8 NOT SHOWN FOR CLARITY
2. FOR DRAIN MANHOLE SEE SHEET 9

SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION

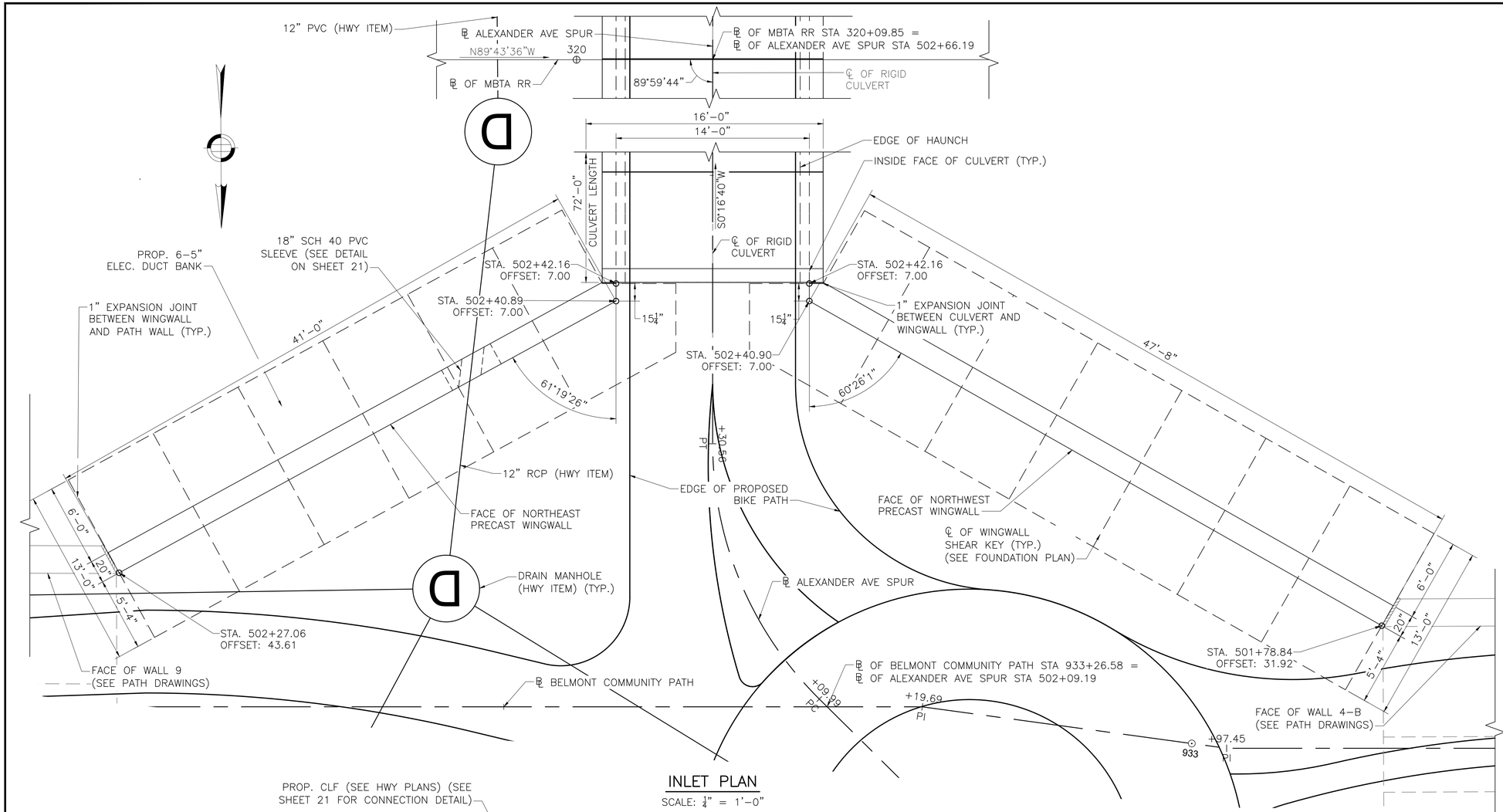
THIS SHEET IS APPROVED FOR CONSTRUCTION BY MASSDOT
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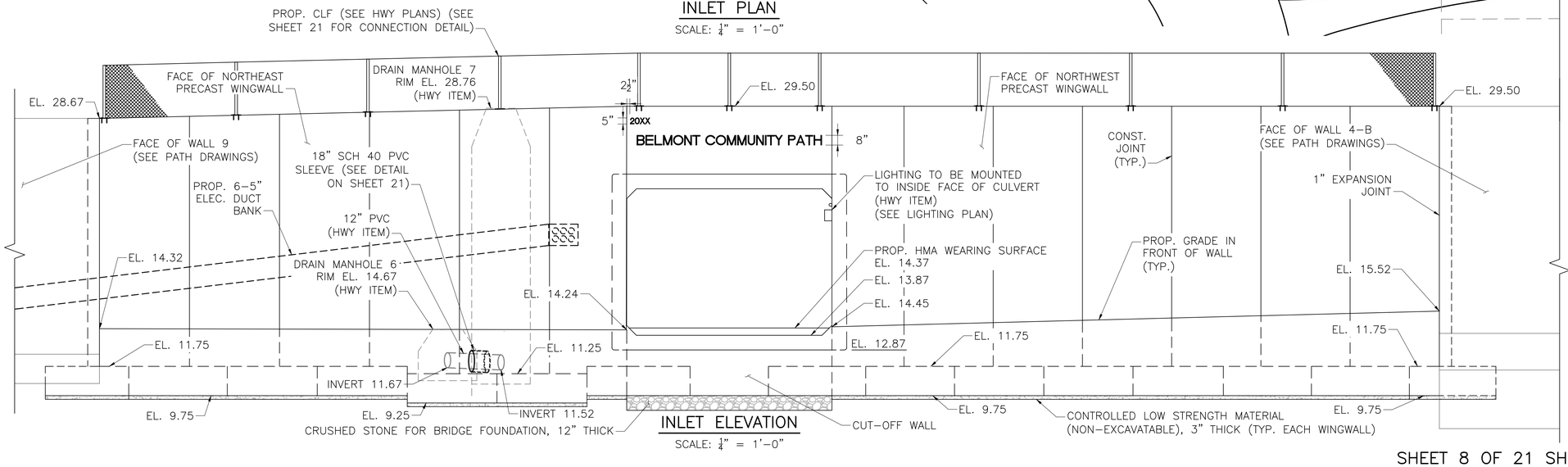
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	141	221
PROJECT FILE NO.	609204		

INLET PLAN & ELEVATION



INLET PLAN
SCALE: ¼" = 1'-0"



INLET ELEVATION
SCALE: ¼" = 1'-0"

DATE	DESCRIPTION
SEPT. 12, 2026	ISSUED FOR CONSTRUCTION

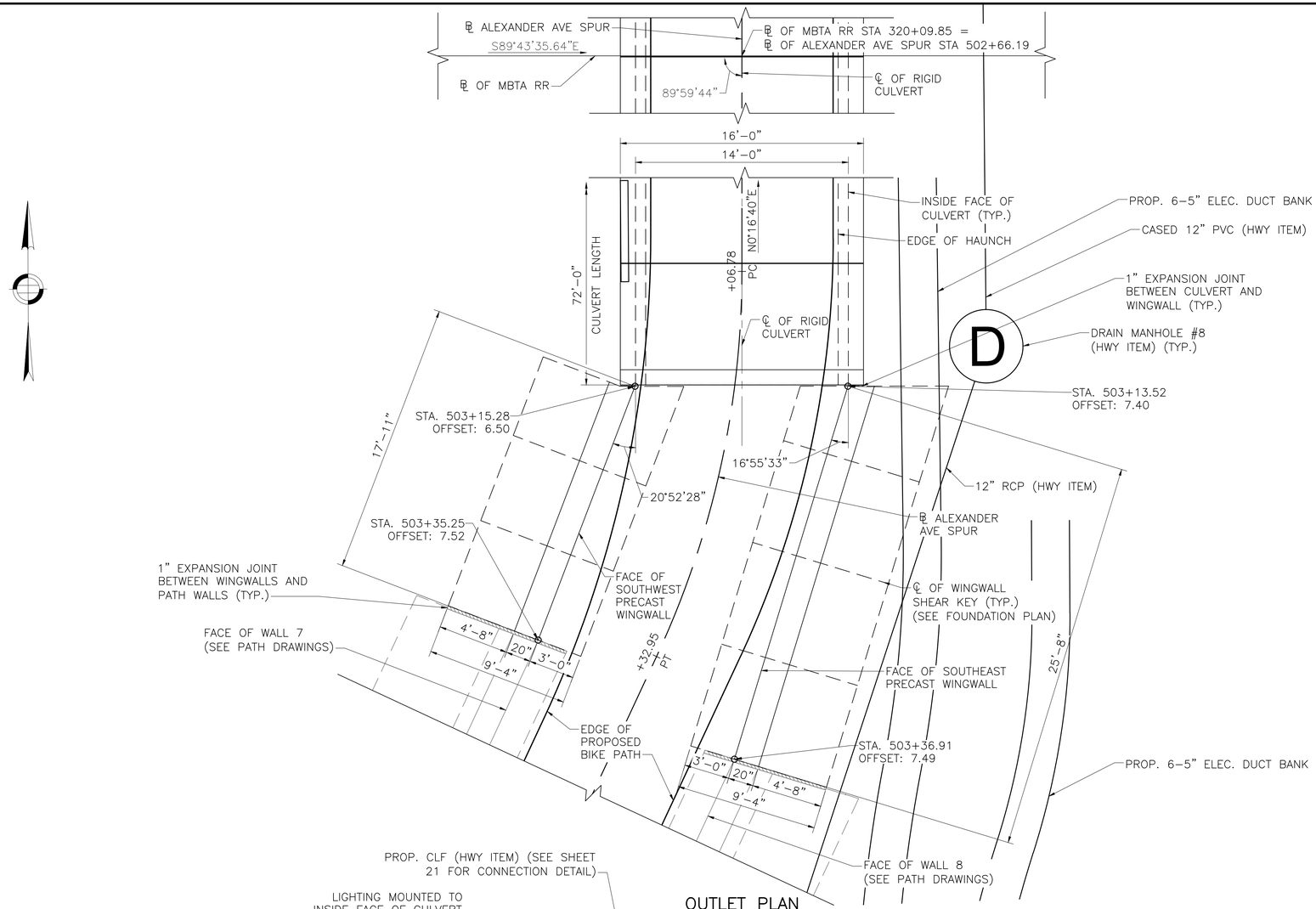
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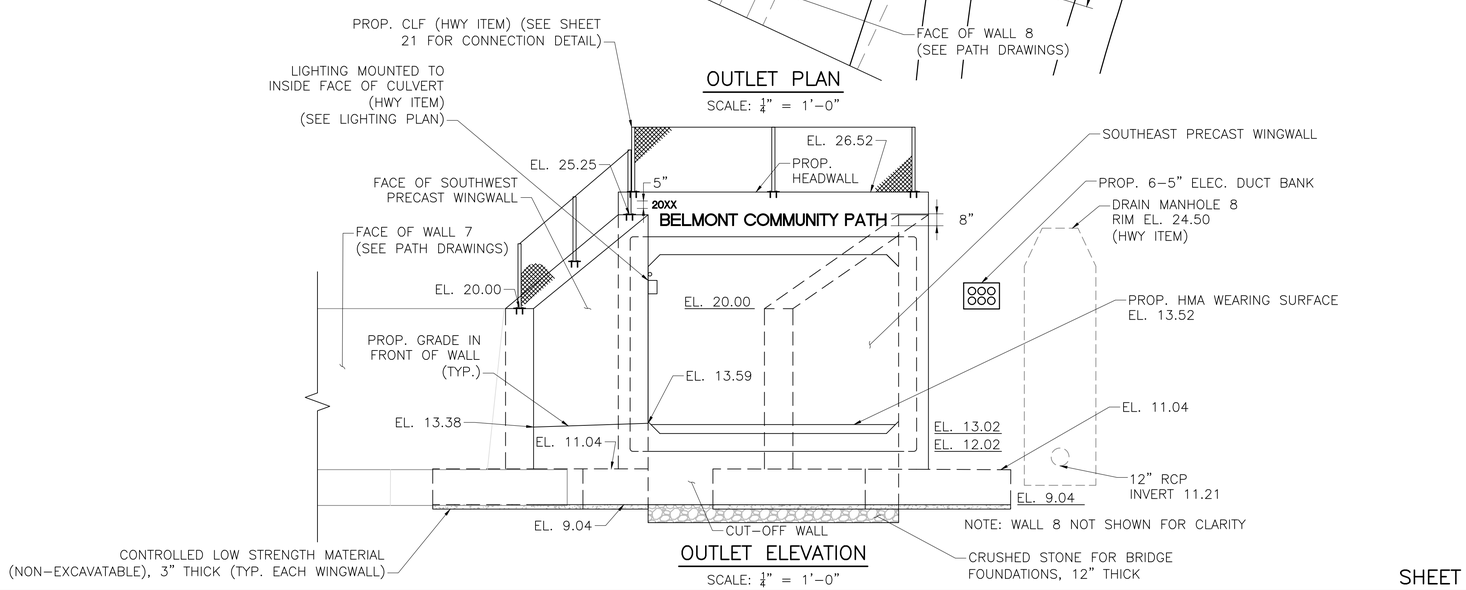
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	142	221
PROJECT FILE NO.	609204		

OUTLET PLAN & ELEVATION



OUTLET PLAN
SCALE: ¼" = 1'-0"



OUTLET ELEVATION
SCALE: ¼" = 1'-0"

SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION

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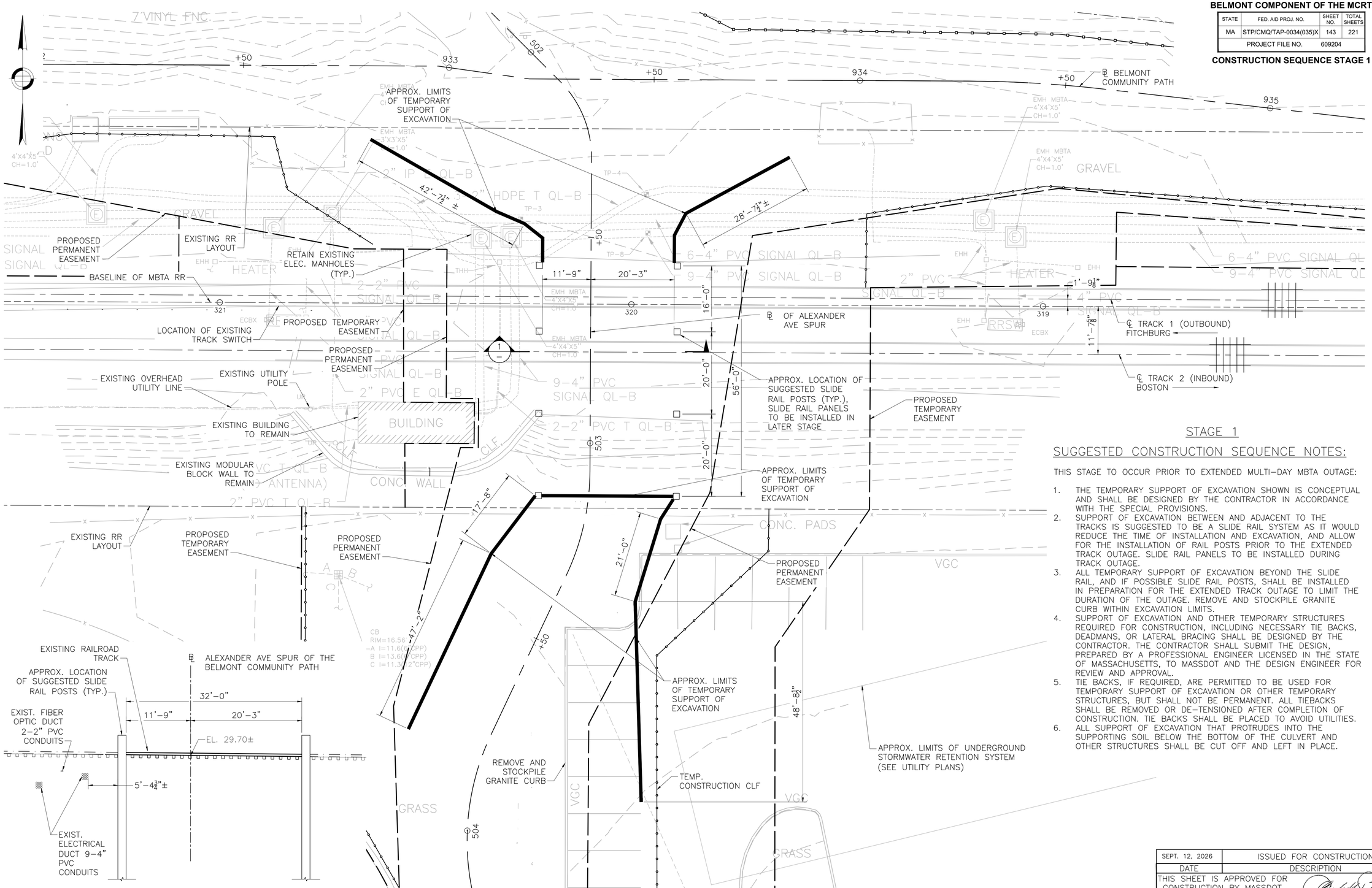
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	143	221
PROJECT FILE NO.	609204		

CONSTRUCTION SEQUENCE STAGE 1



SECTION 1 / –
SCALE: ⅛" = 1'-0"

PLAN – STAGE 1 (SOE INSTALLATION)
SCALE: 3/32" = 1'-0"

STAGE 1

SUGGESTED CONSTRUCTION SEQUENCE NOTES:

THIS STAGE TO OCCUR PRIOR TO EXTENDED MULTI-DAY MBTA OUTAGE:

1. THE TEMPORARY SUPPORT OF EXCAVATION SHOWN IS CONCEPTUAL AND SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
2. SUPPORT OF EXCAVATION BETWEEN AND ADJACENT TO THE TRACKS IS SUGGESTED TO BE A SLIDE RAIL SYSTEM AS IT WOULD REDUCE THE TIME OF INSTALLATION AND EXCAVATION, AND ALLOW FOR THE INSTALLATION OF RAIL POSTS PRIOR TO THE EXTENDED TRACK OUTAGE. SLIDE RAIL PANELS TO BE INSTALLED DURING TRACK OUTAGE.
3. ALL TEMPORARY SUPPORT OF EXCAVATION BEYOND THE SLIDE RAIL, AND IF POSSIBLE SLIDE RAIL POSTS, SHALL BE INSTALLED IN PREPARATION FOR THE EXTENDED TRACK OUTAGE TO LIMIT THE DURATION OF THE OUTAGE. REMOVE AND STOCKPILE GRANITE CURB WITHIN EXCAVATION LIMITS.
4. SUPPORT OF EXCAVATION AND OTHER TEMPORARY STRUCTURES REQUIRED FOR CONSTRUCTION, INCLUDING NECESSARY TIE BACKS, DEADMANS, OR LATERAL BRACING SHALL BE DESIGNED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT THE DESIGN, PREPARED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MASSACHUSETTS, TO MASSDOT AND THE DESIGN ENGINEER FOR REVIEW AND APPROVAL.
5. TIE BACKS, IF REQUIRED, ARE PERMITTED TO BE USED FOR TEMPORARY SUPPORT OF EXCAVATION OR OTHER TEMPORARY STRUCTURES, BUT SHALL NOT BE PERMANENT. ALL TIEBACKS SHALL BE REMOVED OR DE-TENSIONED AFTER COMPLETION OF CONSTRUCTION. TIE BACKS SHALL BE PLACED TO AVOID UTILITIES.
6. ALL SUPPORT OF EXCAVATION THAT PROTRUDES INTO THE SUPPORTING SOIL BELOW THE BOTTOM OF THE CULVERT AND OTHER STRUCTURES SHALL BE CUT OFF AND LEFT IN PLACE.

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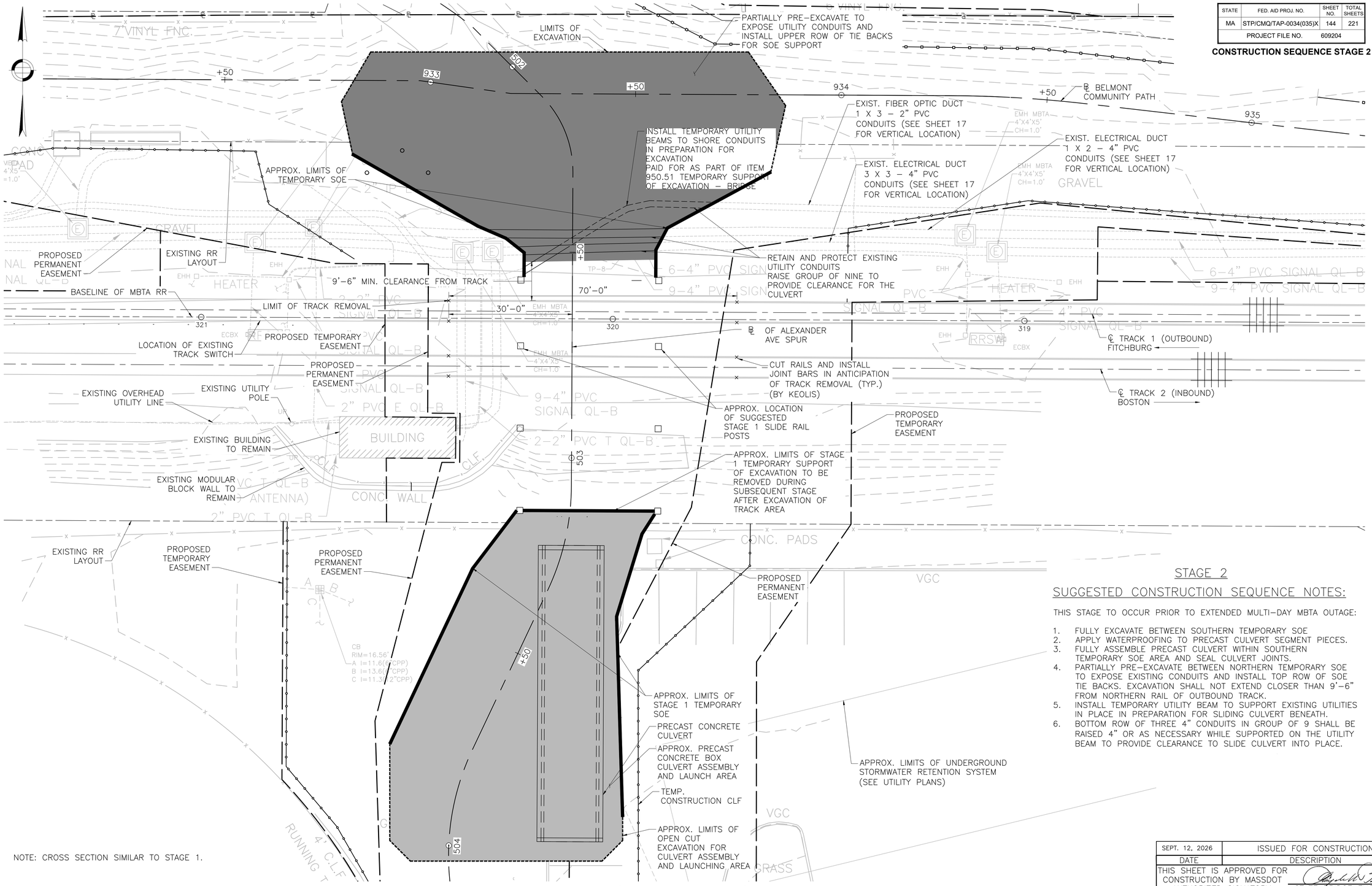
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	144	221
PROJECT FILE NO.	609204		

CONSTRUCTION SEQUENCE STAGE 2



NOTE: CROSS SECTION SIMILAR TO STAGE 1.

PLAN – STAGE 2 (CULVERT ASSEMBLY)

SCALE: $\frac{3}{32}$" = 1'–0"

STAGE 2

SUGGESTED CONSTRUCTION SEQUENCE NOTES:

THIS STAGE TO OCCUR PRIOR TO EXTENDED MULTI–DAY MBTA OUTAGE:

1. FULLY EXCAVATE BETWEEN SOUTHERN TEMPORARY SOE
2. APPLY WATERPROOFING TO PRECAST CULVERT SEGMENT PIECES.
3. FULLY ASSEMBLE PRECAST CULVERT WITHIN SOUTHERN TEMPORARY SOE AREA AND SEAL CULVERT JOINTS.
4. PARTIALLY PRE–EXCAVATE BETWEEN NORTHERN TEMPORARY SOE TO EXPOSE EXISTING CONDUITS AND INSTALL TOP ROW OF SOE TIE BACKS. EXCAVATION SHALL NOT EXTEND CLOSER THAN 9'–6" FROM NORTHERN RAIL OF OUTBOUND TRACK.
5. INSTALL TEMPORARY UTILITY BEAM TO SUPPORT EXISTING UTILITIES IN PLACE IN PREPARATION FOR SLIDING CULVERT BENEATH.
6. BOTTOM ROW OF THREE 4" CONDUITS IN GROUP OF 9 SHALL BE RAISED 4" OR AS NECESSARY WHILE SUPPORTED ON THE UTILITY BEAM TO PROVIDE CLEARANCE TO SLIDE CULVERT INTO PLACE.

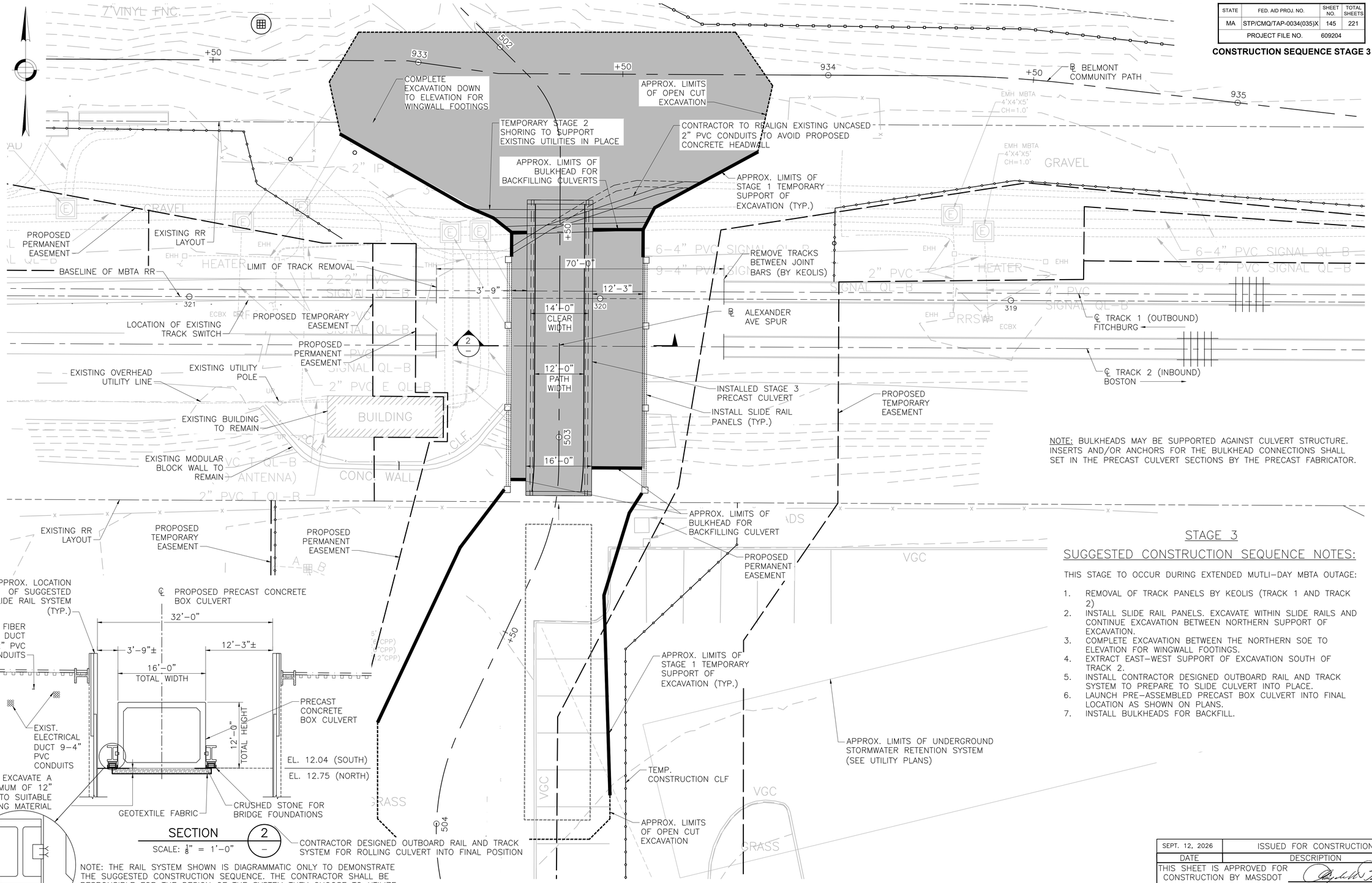
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

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MA	STP/CMQ/TAP-0034(035)X	145	221
PROJECT FILE NO.	609204		

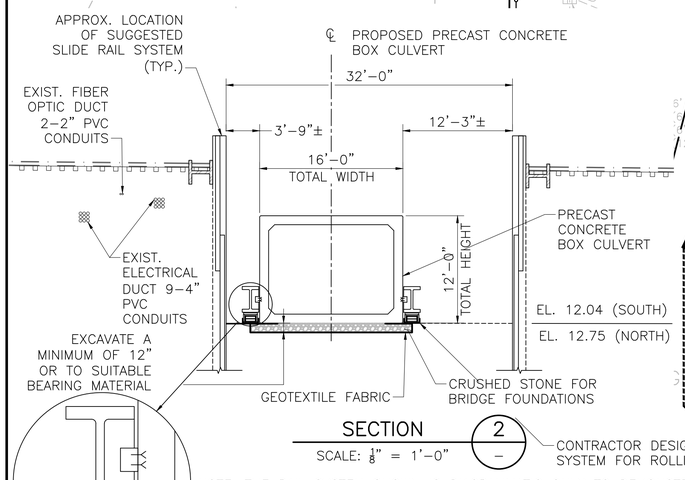
CONSTRUCTION SEQUENCE STAGE 3



NOTE: BULKHEADS MAY BE SUPPORTED AGAINST CULVERT STRUCTURE. INSERTS AND/OR ANCHORS FOR THE BULKHEAD CONNECTIONS SHALL SET IN THE PRECAST CULVERT SECTIONS BY THE PRECAST FABRICATOR.

PLAN – STAGE 3 (MOVE CULVERT)

SCALE: $\frac{3}{32}$" = 1'–0"



SECTION 2 –

SCALE: $\frac{1}{8}$" = 1'–0"

NOTE: THE RAIL SYSTEM SHOWN IS DIAGRAMMATIC ONLY TO DEMONSTRATE THE SUGGESTED CONSTRUCTION SEQUENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE SYSTEM THEY CHOOSE TO UTILIZE. ANY CONNECTIONS TO THE CULVERT, EVEN TEMPORARY, SHOULD BE SET INTO THE PRECAST PIECES BY THE PRECAST FABRICATOR. ANCHORS PRECAST INTO THE CULVERT SHOULD BE OF TYPE 316 STAINLESS STEEL.

STAGE 3

SUGGESTED CONSTRUCTION SEQUENCE NOTES:

THIS STAGE TO OCCUR DURING EXTENDED MUTLI–DAY MBTA OUTAGE:

1. REMOVAL OF TRACK PANELS BY KEOLIS (TRACK 1 AND TRACK 2)
2. INSTALL SLIDE RAIL PANELS. EXCAVATE WITHIN SLIDE RAILS AND CONTINUE EXCAVATION BETWEEN NORTHERN SUPPORT OF EXCAVATION.
3. COMPLETE EXCAVATION BETWEEN THE NORTHERN SOE TO ELEVATION FOR WINGWALL FOOTINGS.
4. EXTRACT EAST–WEST SUPPORT OF EXCAVATION SOUTH OF TRACK 2.
5. INSTALL CONTRACTOR DESIGNED OUTBOARD RAIL AND TRACK SYSTEM TO PREPARE TO SLIDE CULVERT INTO PLACE.
6. LAUNCH PRE–ASSEMBLED PRECAST BOX CULVERT INTO FINAL LOCATION AS SHOWN ON PLANS.
7. INSTALL BULKHEADS FOR BACKFILL.

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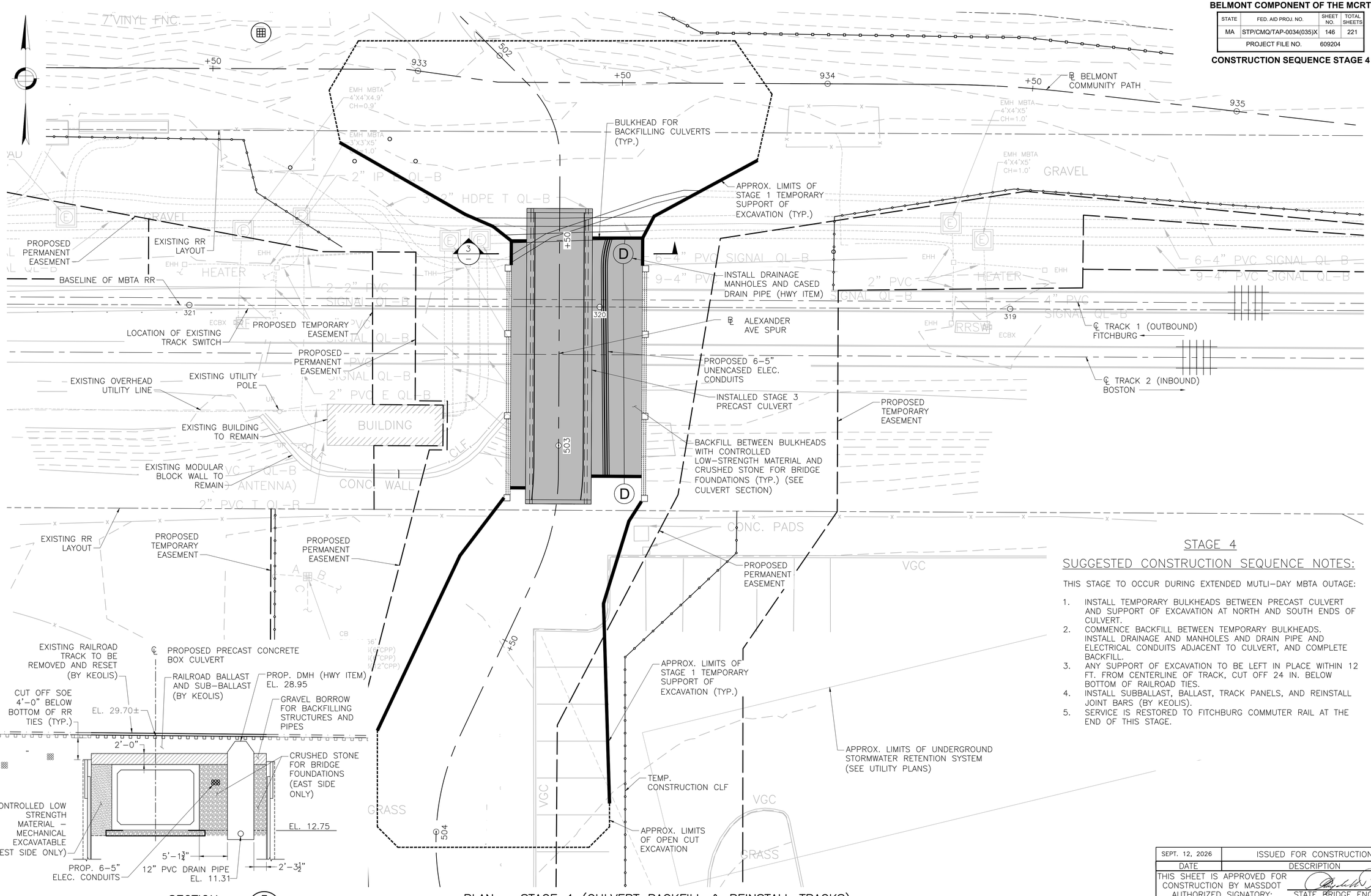
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

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MA	STP/CMQ/TAP-0034(035)X	146	221
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CONSTRUCTION SEQUENCE STAGE 4



PLAN – STAGE 4 (CULVERT BACKFILL & REINSTALL TRACKS)

SCALE: $\frac{3}{32}$" = 1'–0"

SECTION 3 / –

SCALE: $\frac{1}{8}$" = 1'–0"

STAGE 4

SUGGESTED CONSTRUCTION SEQUENCE NOTES:

THIS STAGE TO OCCUR DURING EXTENDED MUTLI–DAY MBTA OUTAGE:

1. INSTALL TEMPORARY BULKHEADS BETWEEN PRECAST CULVERT AND SUPPORT OF EXCAVATION AT NORTH AND SOUTH ENDS OF CULVERT.
2. COMMENCE BACKFILL BETWEEN TEMPORARY BULKHEADS. INSTALL DRAINAGE AND MANHOLES AND DRAIN PIPE AND ELECTRICAL CONDUITS ADJACENT TO CULVERT, AND COMPLETE BACKFILL.
3. ANY SUPPORT OF EXCAVATION TO BE LEFT IN PLACE WITHIN 12 FT. FROM CENTERLINE OF TRACK, CUT OFF 24 IN. BELOW BOTTOM OF RAILROAD TIES.
4. INSTALL SUBBALLAST, BALLAST, TRACK PANELS, AND REINSTALL JOINT BARS (BY KEOLIS).
5. SERVICE IS RESTORED TO FITCHBURG COMMUTER RAIL AT THE END OF THIS STAGE.

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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

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MA	STP/CMQ/TAP-0034(035)X	147	221
PROJECT FILE NO.	609204		

CONSTRUCTION SEQUENCE STAGE 5

PROPOSED PATH RETAINING WALL (HWY ITEM, SEE WALL 4B ON PATH PLANS)
APPROX. LIMITS OF OPEN CUT EXCAVATION
PROPOSED PATH ROUNDABOUT
PROP. 6–5" ELEC. DUCT BANK (BELOW WALL FOOTINGS)
PROPOSED PATH RETAINING WALL (HWY ITEM, SEE WALL 6 ON PATH PLANS)
PROPOSED PATH (TYP.)
℄ BELMONT COMMUNITY PATH
PROPOSED PATH RETAINING WALL (HWY ITEM, SEE WALL 9 ON PATH PLANS)
PROPOSED ELEC. MANHOLE
PROP. GAS LINE (HWY ITEM, SEE UTILITY PLANS)
PROP. PRECAST CONCRETE WINGWALL FOOTING (TYP.)
PROP. 6–5" ELEC. DUCT BANK (ABOVE WALL FOOTINGS)
PROP. PRECAST CONCRETE WINGWALL (TYP.)
APPROX. LOCATION OF STAGE 1 SUPPORT OF EXCAVATION (TYP.)
PROPOSED PERMANENT EASEMENT
EXISTING RR LAYOUT
BASELINE OF MBTA RR
PROPOSED TEMPORARY EASEMENT
LOCATION OF EXISTING TRACK SWITCH
℄ ALEXANDER AVE SPUR
6–5" UNENCASED ELEC. CONDUITS ADJACENT TO CULVERT
℄ TRACK 1 (OUTBOUND) FITCHBURG
℄ TRACK 2 (INBOUND) BOSTON
EXISTING OVERHEAD UTILITY LINE
EXISTING UTILITY POLE
APPROX. LOCATION OF STAGE 3 SLIDE RAIL SYSTEM (TYP.)
PROPOSED TEMPORARY EASEMENT
EXISTING BUILDING TO REMAIN
CUTOFF BULKHEAD 2'–0" BELOW FINISHED GRADE (TYP.)
EXISTING MODULAR BLOCK WALL TO REMAIN
PROP. PRECAST CONCRETE WINGWALL
EXISTING RR LAYOUT
PROPOSED TEMPORARY EASEMENT
PROPOSED PERMANENT EASEMENT
PROPOSED PERMANENT EASEMENT
APPROX. LOCATION OF STAGE 1 SUPPORT OF EXCAVATION. CUT OFF 2 FEET BELOW FINISH GRADE (TYP.)
PROPOSED PATH RETAINING WALL (SEE WALLS 7 & 8 ON PATH PLANS)
INSTALL PROPOSED DRAIN LINE, MANHOLES AND CATCH BASIN TO NORTH AND SOUTH OF CULVERT (HWY ITEMS)
PROPOSED CATCH BASIN (TYP.)
CURB REMOVED AND RESET – BRIDGE
APPROX. LIMITS OF OPEN CUT EXCAVATION
HOT MIX ASPHALT FOR SIDEWALK AND DRIVEWAY – BRIDGE
TEMP. CONSTRUCTION CLF
APPROX. LIMITS OF UNDERGROUND STORMWATER RETENTION SYSTEM (SEE UTILITY PLANS)
PAVEMENT MARKING – 6 INCH (PAINTED) – BRIDGE

PROP. GRADE BEHIND WALL EL. 28.82
EXIST 3x2" FIBER OPTIC LINES EL. TOP 26.3
APPROX. EXIST. GRADE
EL. 29.07
8'–9"±
EXIST 2–4" PVC ELECTRICAL EL. TOP 25.7
EL. 28.11
PROP. NORTHEAST WINGWALL
EXIST. 9–4" PVC ELECTRICAL EL. TOP 25.7
PROP. GRADE EL. 14.43
TEMPORARY SUPPORT OF EXCAVATION (CUT OFF BELOW GRADE)
PROP. DMH #6 (HWY ITEM)
PROP. 6–5" ELECTRICAL DUCT BANK (SEE UTILITY PLANS)
DRAIN LINE INVERT EL. 11.61
EL. 9.75
GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES
4'–3¾"±
2'–9"±
13'–0"
3" CONTROLLED LOW STRENGTH MATERIAL (NON–EXCAVATABLE)

SECTION 4

SCALE: ⅛" = 1'–0"

PLAN – STAGE 5 (INSTALL WINGWALLS)

SCALE: 3/32" = 1'–0"

STAGE 5
SUGGESTED CONSTRUCTION SEQUENCE NOTES:

THIS STAGE TO OCCUR AFTER THE EXTENDED MULTI–DAY MBTA OUTAGE:

1. INSTALL ELECTRICAL MANHOLE AND INSTALL DUCT BANK FROM MANHOLE TOWARD ALEXANDER AVE.
2. INSTALL FOUR WINGWALLS, TWO TO THE NORTH AND TWO TO THE SOUTH OF PRECAST CULVERT (SEE PATH DRAWINGS FOR PROPOSED RETAINING WALLS BEYOND BRIDGE WINGWALLS).
3. COMPLETE INSTALLATION OF DRAINAGE MANHOLES AND DRAIN PIPES TO THE NORTH AND SOUTH OF THE CULVERT.
4. BACKFILL BEHIND BRIDGE WINGWALLS AND INSTALL DUCT BANK FROM MANHOLE TOWARD BELMONT HIGH SCHOOL CONNECTING TO THE STAGE 4 CONDUITS WHICH WERE INSTALLED ADJACENT TO CULVERT.
5. CUT DOWN TOP OF SUPPORT OF EXCAVATION INCLUDING BULKHEADS AND REMOVE OR DE–TENSION ANY TIEBACKS USED FOR LATERAL BRACING OF SOE.
6. BACKFILL IN FRONT OF WINGWALLS TO FINISHED GRADE AND PAVE PATH.
7. RESTORE PARKING LOT. RESET EXISTING GRANITE CURB. PAVE PARKING LOT WITH HOT MIX ASPHALT FOR SIDEWALKS AND DRIVEWAYS. RESTRIPE PARKING SPACES USING PAVEMENT MARKINGS – 6 INCH (PAINT). THE ITEMS WILL BE PAID FOR USING BRIDGE PAY ITEMS SEPARATE FROM SIMILAR HWY ITEMS USED FOR THE PATH.

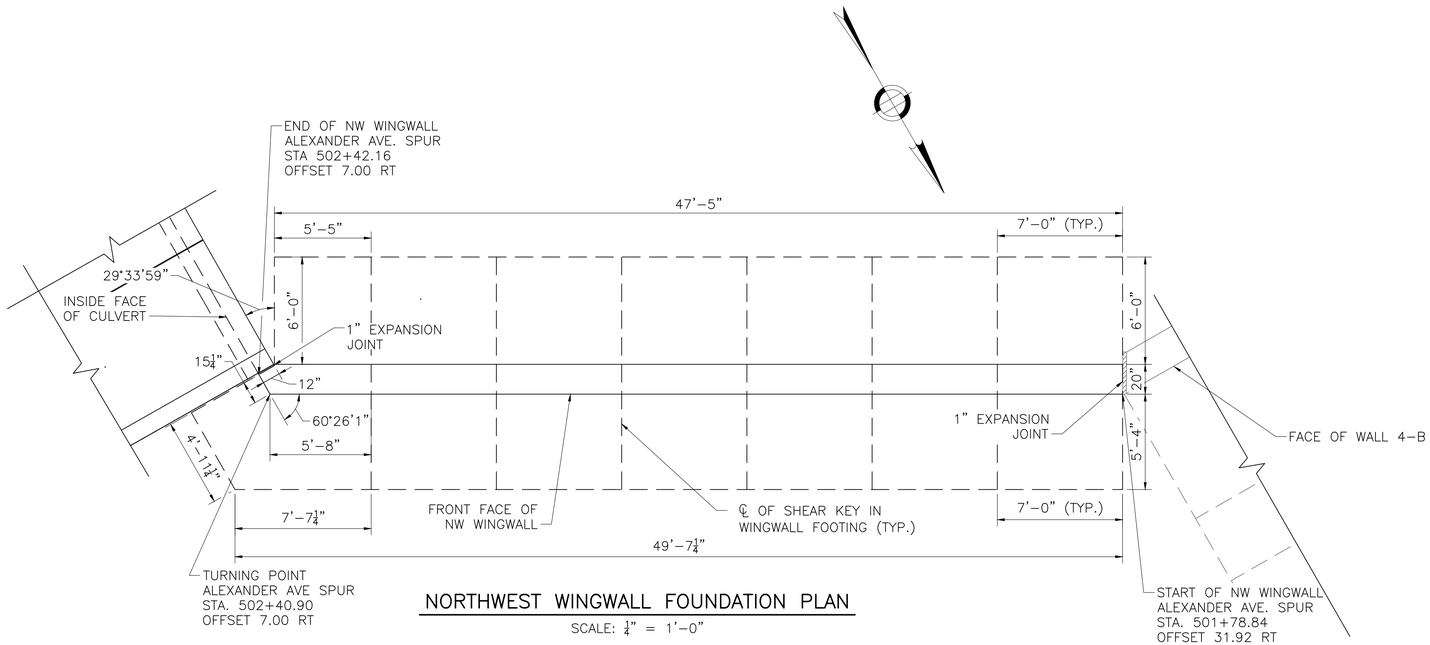
SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION
THIS SHEET IS APPROVED FOR CONSTRUCTION BY MASSDOT AUTHORIZED SIGNATORY:	STATE BRIDGE ENGINEER
USE ONLY PRINTS OF LATEST DATE	

609204_BR10-14(B07017).DWG Plotted on 2-Sep-2026 1:44 PM
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

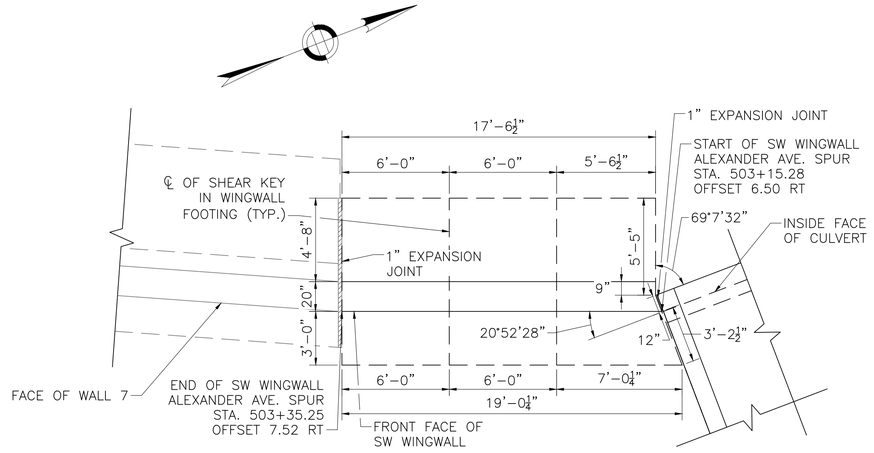
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	148	221
PROJECT FILE NO.	609204		

WINGWALL PLAN AND ELEVATION 1 OF 2



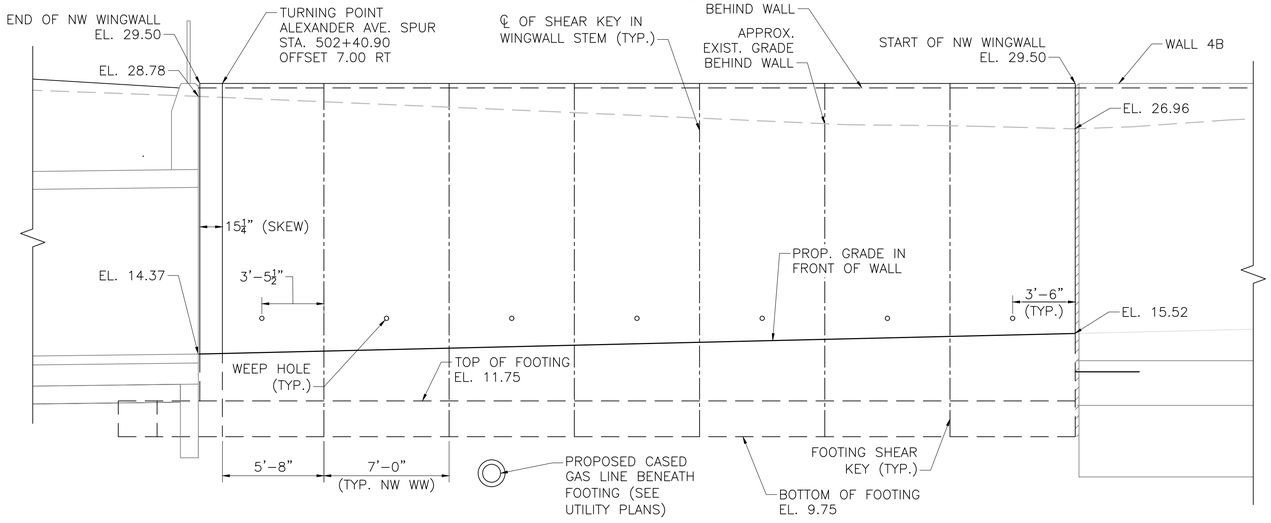
NORTHWEST WINGWALL FOUNDATION PLAN

SCALE: ¼" = 1'-0"



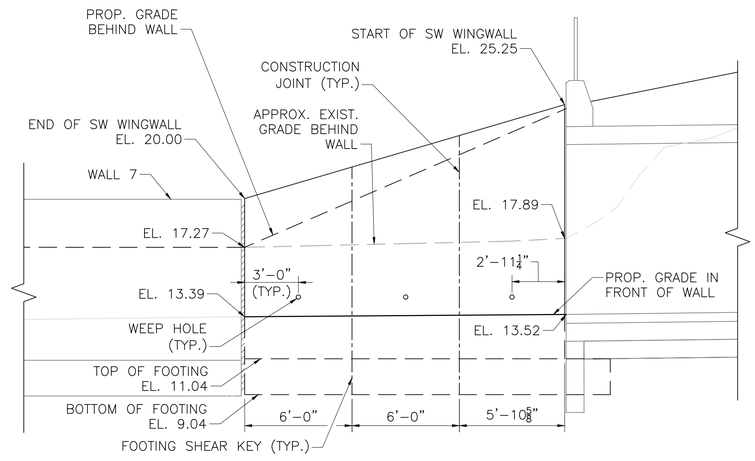
SOUTHWEST WINGWALL FOUNDATION PLAN

SCALE: ¼" = 1'-0"



NORTHWEST WINGWALL ELEVATION

SCALE: ¼" = 1'-0"



SOUTHWEST WINGWALL ELEVATION

SCALE: ¼" = 1'-0"

NOTE:
"NE" STANDS FOR "NORTHEAST"
"NW" STANDS FOR "NORTHWEST"
"SE" STANDS FOR "SOUTHEAST"
"SW" STANDS FOR "SOUTHWEST"
SEE HWY SHEETS FOR WALL 4-B AND 7 DETAILS

DATE	DESCRIPTION
SEPT. 12, 2026	ISSUED FOR CONSTRUCTION

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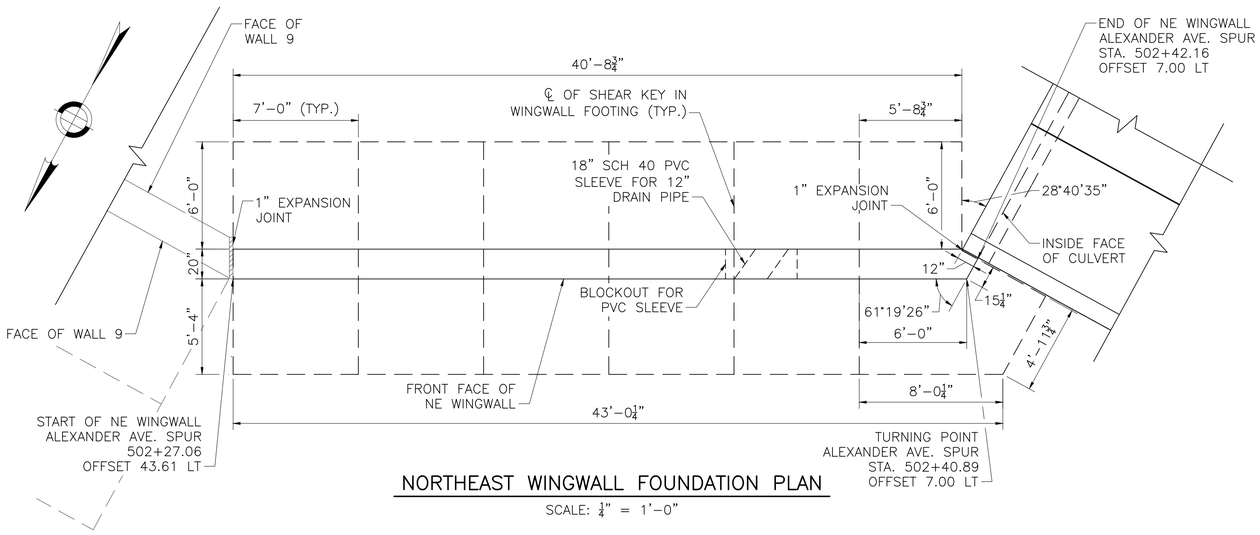
USE ONLY PRINTS OF LATEST DATE

609204_BR15-16(B07017).DWG Plotted on 2-Sep-2026 1:44 PM
Final Structural Submittal (SF) 12 - Sept. - 2026

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

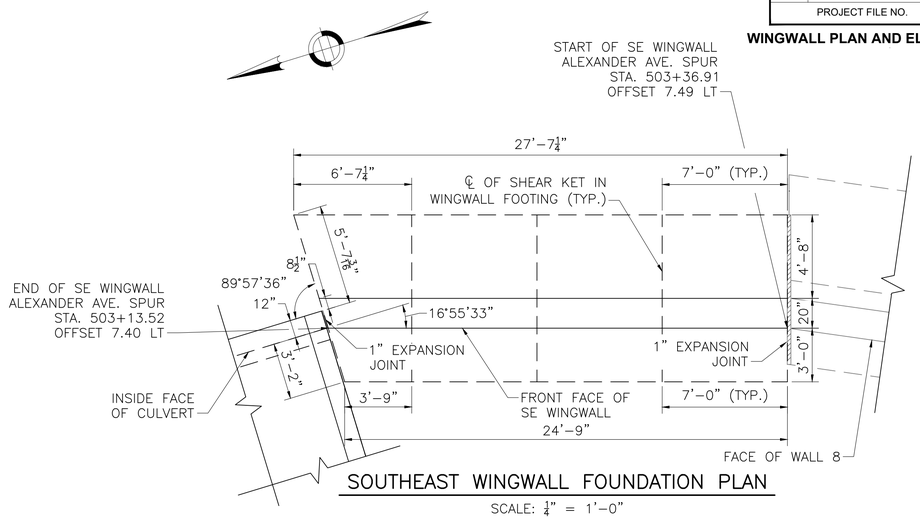
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	149	221
PROJECT FILE NO.	609204		

WINGWALL PLAN AND ELEVATION 2 OF 2



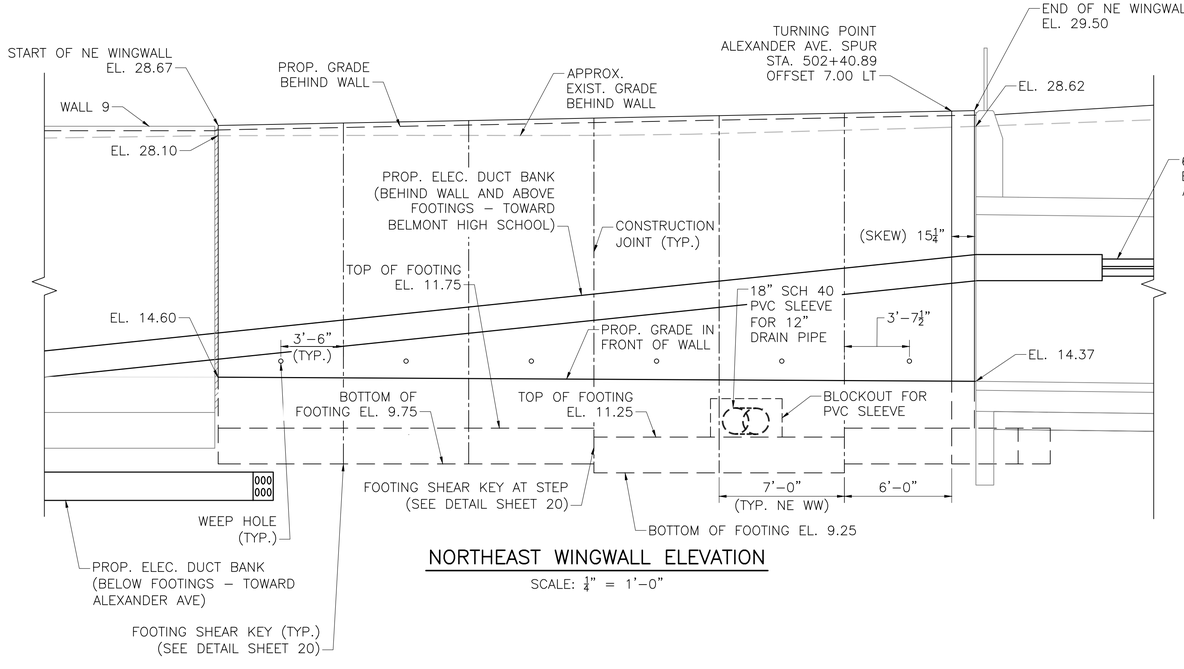
NORTHEAST WINGWALL FOUNDATION PLAN

SCALE: ¼" = 1'–0"



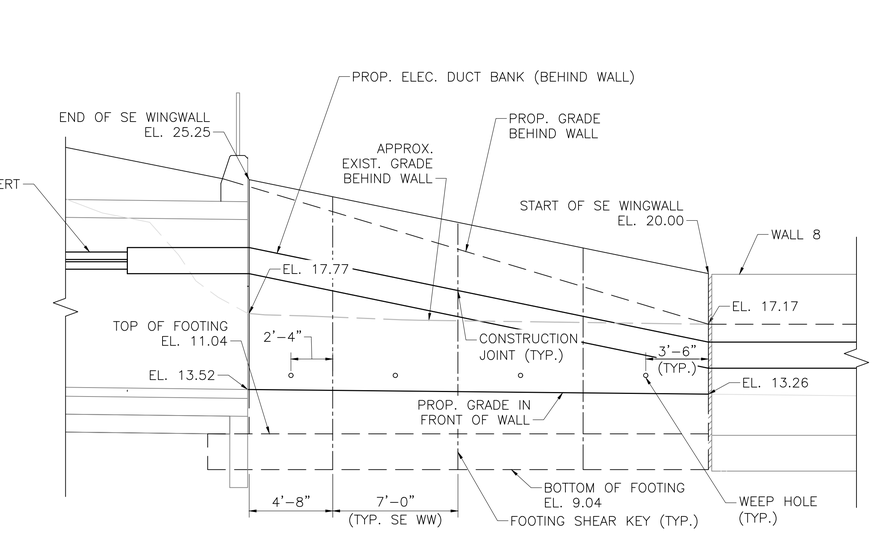
SOUTHEAST WINGWALL FOUNDATION PLAN

SCALE: ¼" = 1'–0"



NORTHEAST WINGWALL ELEVATION

SCALE: ¼" = 1'–0"



SOUTHEAST WINGWALL ELEVATION

SCALE: ¼" = 1'–0"

NOTE:
"NE" STANDS FOR "NORTHEAST"
"NW" STANDS FOR "NORTHWEST"
"SE" STANDS FOR "SOUTHEAST"
"SW" STANDS FOR "SOUTHWEST"
SEE HWY SHEETS FOR WALL 8 AND 9 DETAILS

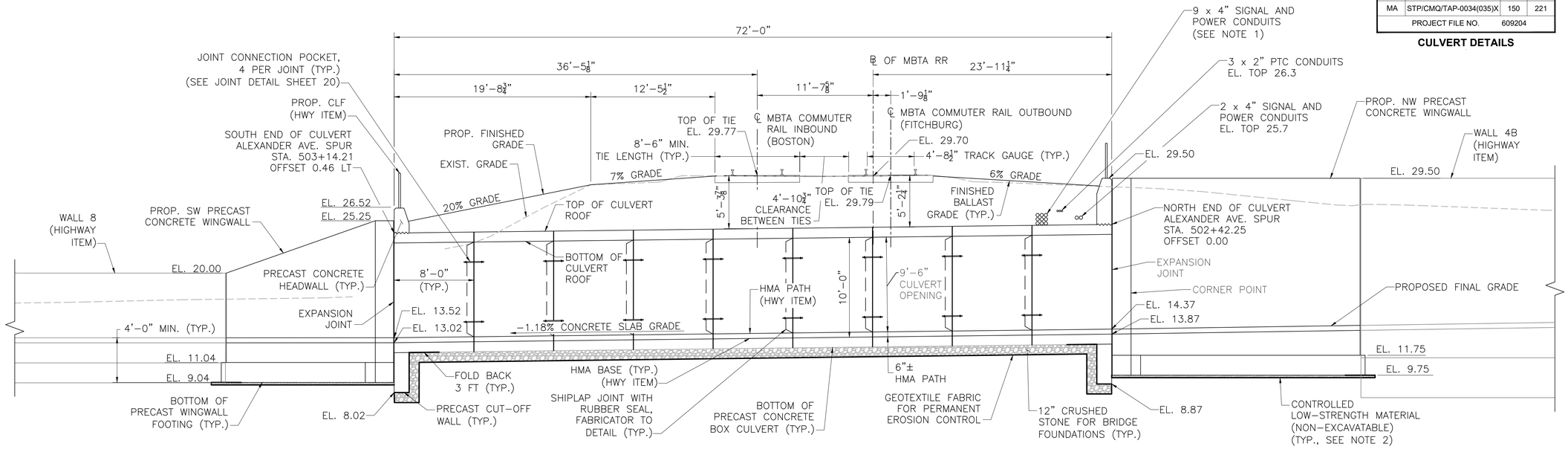
SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

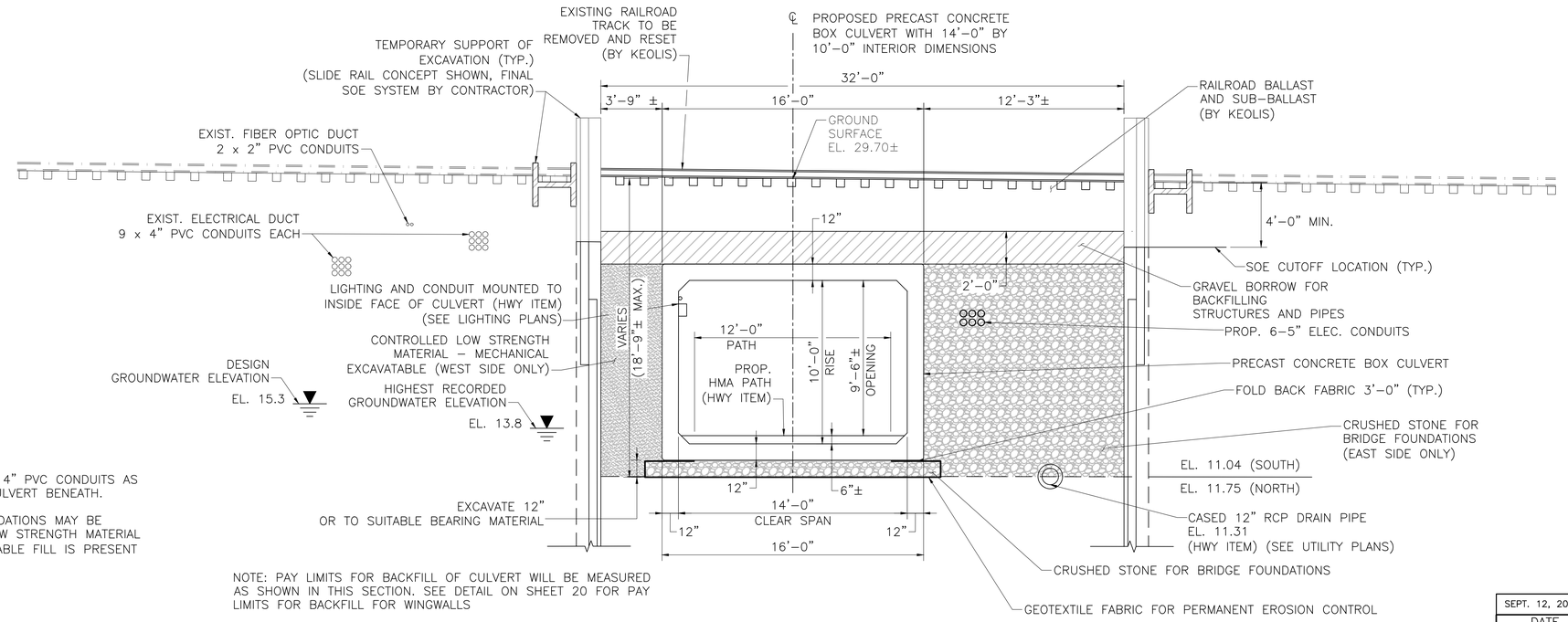
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	150	221
PROJECT FILE NO.	609204		

CULVERT DETAILS



TRANSVERSE SECTION (LOOKING WEST)

SCALE: $\frac{3}{16}$" = 1'–0"



NOTE: PAY LIMITS FOR BACKFILL OF CULVERT WILL BE MEASURED AS SHOWN IN THIS SECTION. SEE DETAIL ON SHEET 20 FOR PAY LIMITS FOR BACKFILL FOR WINGWALLS

LONGITUDINAL SECTION (LOOKING NORTH)

SCALE: $\frac{1}{4}$" = 1'–0"

NOTES:

1. CONTRACTOR SHALL RAISE THE 9 x 4" PVC CONDUITS AS NECESSARY TO FIT THE PRECAST CULVERT BENEATH.
2. GRAVEL BORROW FOR BRIDGE FOUNDATIONS MAY BE REQUIRED BENEATH CONTROLLED LOW STRENGTH MATERIAL (NON–EXCAVATABLE) WHERE UNSUITABLE FILL IS PRESENT UNDER WINGWALL FOOTINGS.

DATE	DESCRIPTION
SEPT. 12, 2026	ISSUED FOR CONSTRUCTION

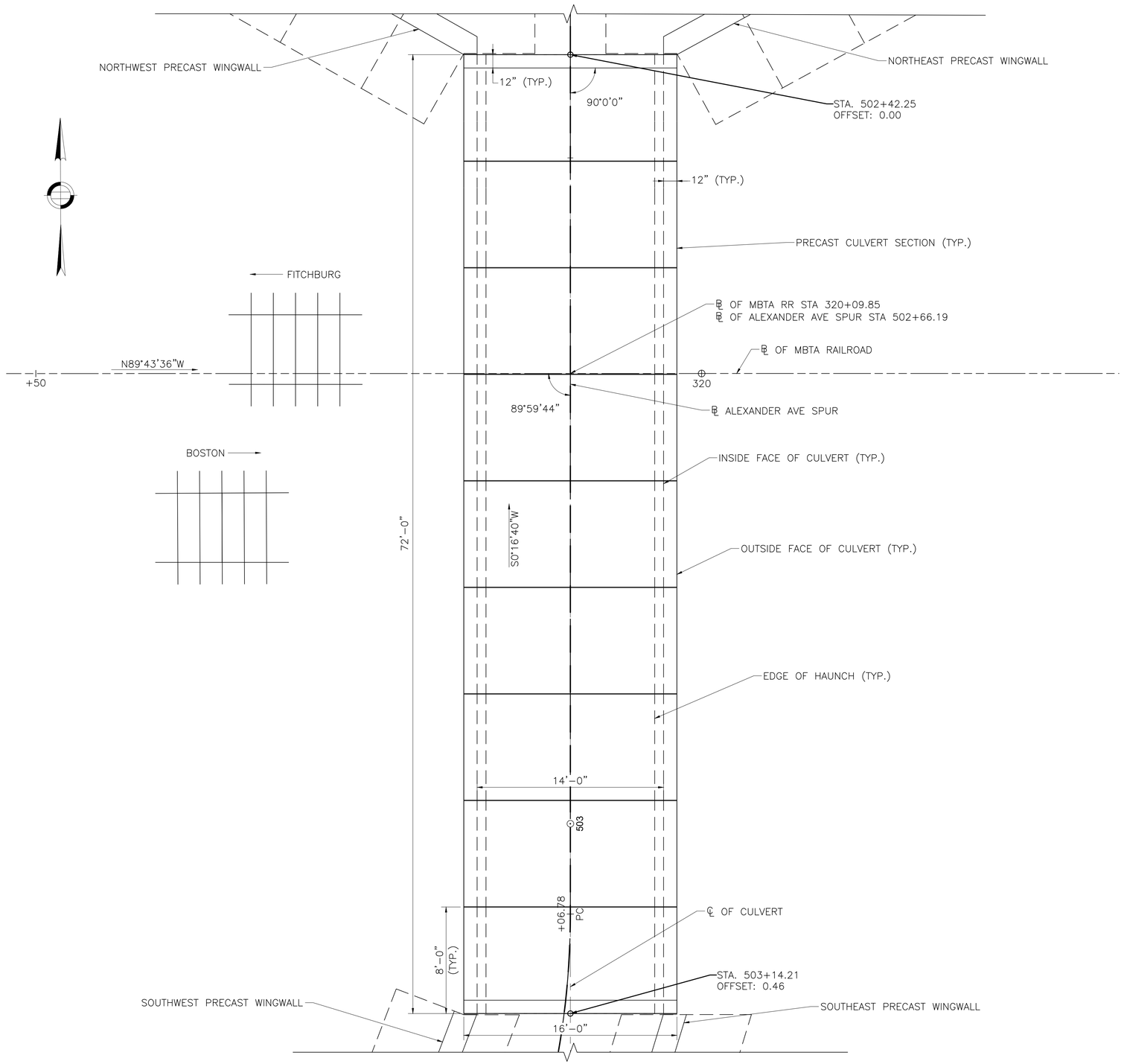
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	151	221
PROJECT FILE NO.	609204		

FRAMING PLAN

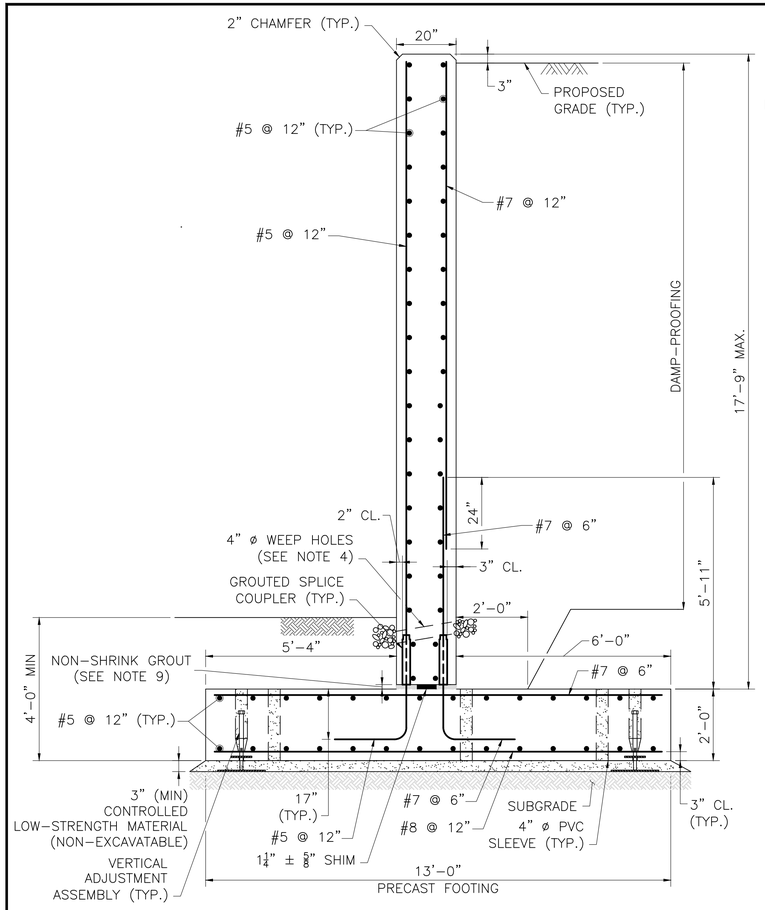


FRAMING PLAN
SCALE: $\frac{1}{4}$" = 1'-0"

SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION

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USE ONLY PRINTS OF LATEST DATE

609204_BR18(B07017).DWG Plotted on 2-Sep-2026 1:45 PM
Final Structural Submittal (SF) 12 - Sept. - 2026

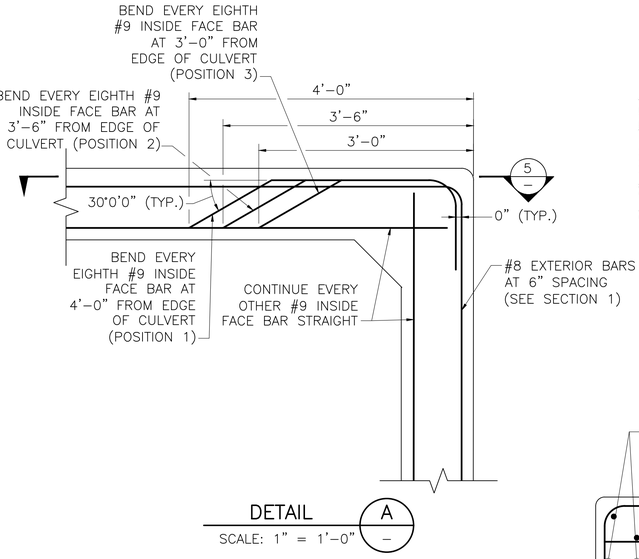


NORTH PRECAST WINGWALL SECTION

SCALE: ½" = 1'-0"

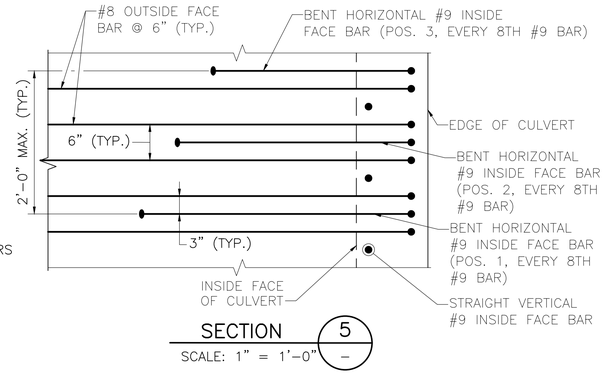
NOTES:

1. SUBGRADE FOR WINGWALLS SHALL BE NATURAL UNDISTURBED STIFF CLAY. UNSUITABLE SUBGRADE SHALL BE REPLACED WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS.
2. WATERPROOFING SHALL BE APPLIED CONTINUOUSLY ALL AROUND THE OUTSIDE OF THE CULVERT.
3. DAMP-PROOFING SHALL BE APPLIED CONTINUOUSLY ALONG THE BACK OF THE WALL STEM AND THE TOP OF THE FOOTING HEEL AS SHOWN.
4. WEEP HOLES SHALL NOT BE INSTALLED IN THE CULVERT.
5. 4" ø WEEP HOLES 10'-0" O.C. LOCATED 18" ABOVE THE HEEL OF THE WALL FOOTING, SLOPING 1" PER FOOT TOWARDS THE FRONT FACE. PROVIDE 1 CUBIC YARD OF CRUSHED STONE AT EACH END OF WEEP HOLE.
6. NORTH WINGWALL SERVICE BEARING PRESSURE PER AREMA 2025.
   - SERVICE LOAD DESIGN – GROUP III LOAD COMBINATION
     SERVICE BEARING PRESSURE = 2.57 KSF.
6. SOUTH WINGWALL SERVICE BEARING PRESSURE PER AREMA 2025.
   - SERVICE LOAD DESIGN – GROUP III LOAD COMBINATION
     SERVICE BEARING PRESSURE = 2.70 KSF.
7. ALLOWABLE BEARING CAPACITY = 2.80 KSF FOR THE PRIMARY LOAD COMBINATION AND IS A RESULT OF THE ULTIMATE BEARING CAPACITY OF 8.6 KSF AND A FACTOR OF SAFETY OF 3.0.
8. ALL CONCRETE SHALL BE 5000 HP CONCRETE.
9. PRE-BED PREFABRICATED ELEMENT WITH NON-SHRINK GROUT WITH THICKNESS MORE THAN SHIM STACK.



DETAIL A

SCALE: 1" = 1'-0"



SECTION 5

SCALE: 1" = 1'-0"

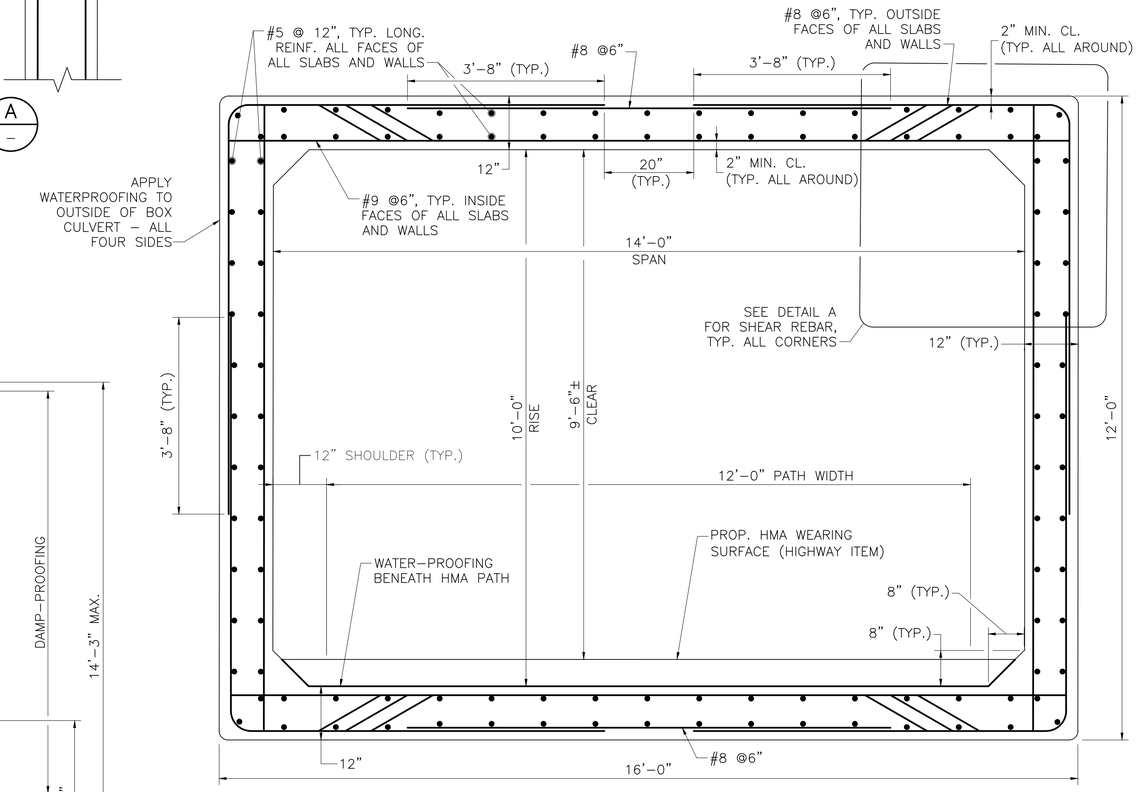
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	152	221
PROJECT FILE NO.	609204		

CULVERT AND WINGWALL SECTIONS

NOTES:

1. PRELIMINARY DESIGN SHOWN. CONTRACTOR TO PROVIDE FINAL DESIGN.
2. ONLY THE BENT PORTION OF THE #9 SLAB BARS ARE SHOWN IN SECTION 5 FOR CLARITY.

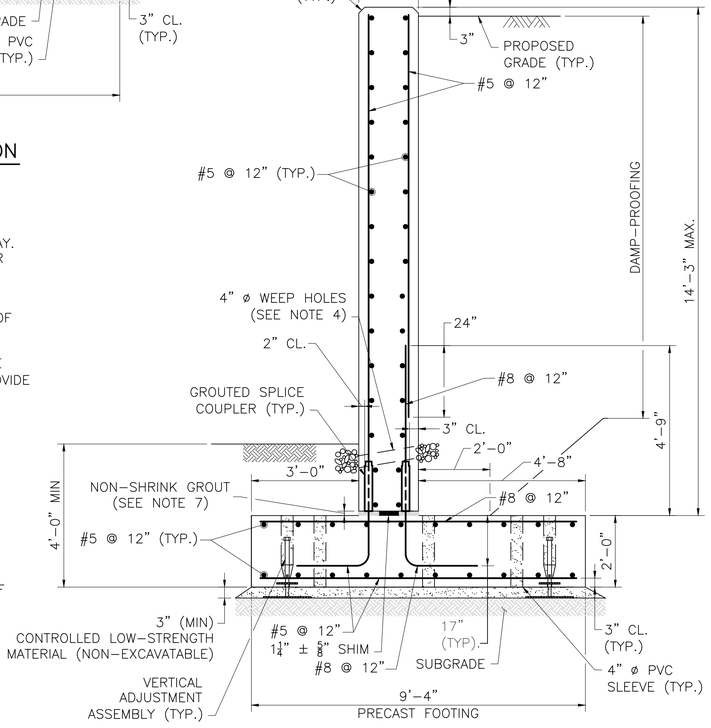


CULVERT NOTES:

1. SUBGRADE FOR CULVERT SHALL BE 12" OF CRUSHED STONE FOR BRIDGE FOUNDATIONS ABOVE PROOF-ROLLED EXISTING FILL OR NATURAL UNDISTURBED STIFF CLAY. UNSUITABLE SUBGRADE SHALL BE REPLACED WITH GRAVEL BORROW FOR BRIDGE FOUNDATIONS.
2. CULVERT SERVICE BEARING PRESSURE PER AREMA 2025.
   - SERVICE LOAD DESIGN – GROUP I LOAD COMBINATION
     SERVICE BEARING PRESSURE = 2.51 KSF.
3. ALLOWABLE BEARING CAPACITY = 2.80 KSF, FACTOR OF SAFETY = 3.0 FOR THE PRIMARY LOAD COMBINATION.
4. TRANSVERSE REINFORCING SHALL BE PLACED NORMAL TO THE ℄ OF THE CULVERT.

PRECAST CULVERT SECTION

SCALE: ¾" = 1'-0"



SOUTH PRECAST WINGWALL SECTION

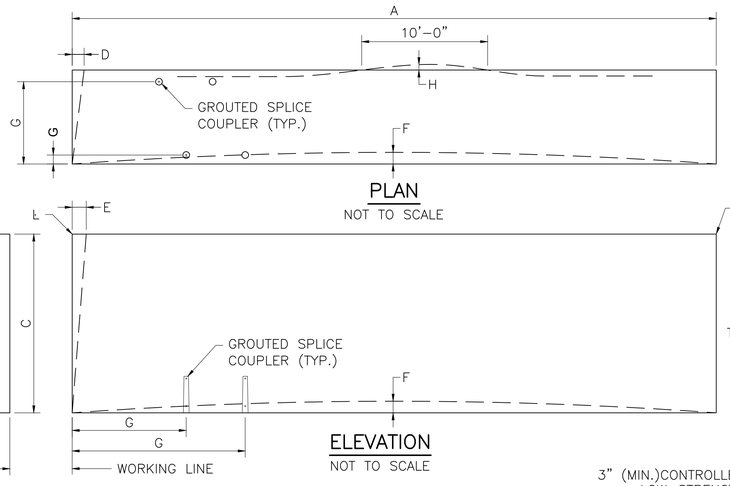
SCALE: ½" = 1'-0"

SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
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PLAN
NOT TO SCALE

ELEVATION
NOT TO SCALE

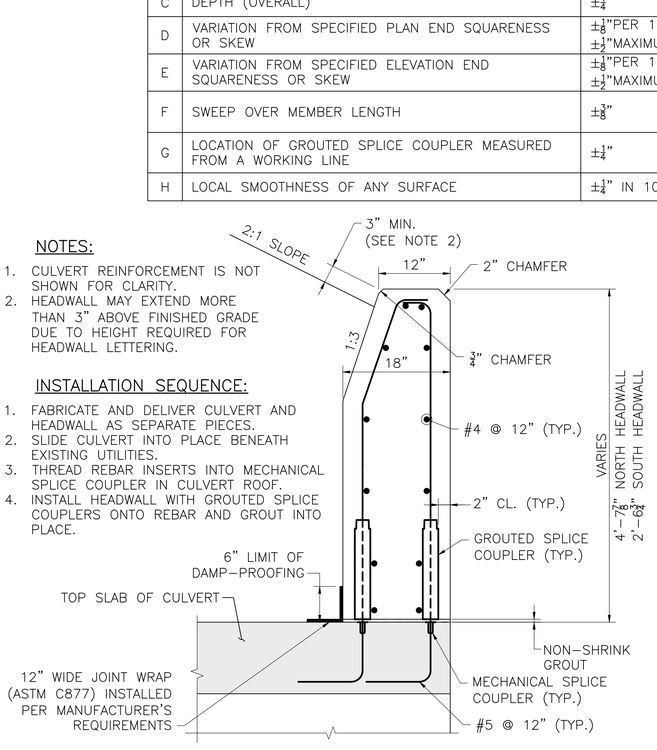
SECTION
NOT TO SCALE

WALL ELEMENTS ERECTION TOLERANCES

L	ACTUAL ELEVATION FROM SPECIFIED ELEVATION MAXIMUM LOW MAXIMUM HIGH	 $\frac{1}{4}$" $\frac{3}{4}$"
M	MAXIMUM PLUMB VARIATION OVER HEIGHT OF PANEL	$\frac{1}{2}$"
N	PLUMB IN ANY 10 FEET OF PANEL HEIGHT	$\frac{1}{4}$"

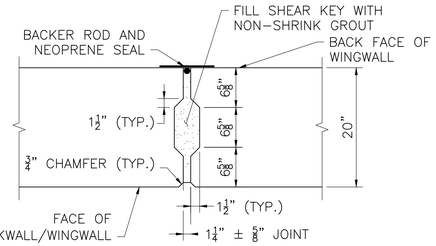
WALL ELEMENTS FABRICATION TOLERANCES

A	LENGTH (OVERALL)	$\pm\frac{1}{4}$"
B	WIDTH (OVERALL)	$\pm\frac{1}{4}$"
C	DEPTH (OVERALL)	$\pm\frac{1}{4}$"
D	VARIATION FROM SPECIFIED PLAN END SQUARENESS OR SKEW	$\pm\frac{1}{8}$"PER 12 INCH WIDTH $\pm\frac{1}{2}$"MAXIMUM
E	VARIATION FROM SPECIFIED ELEVATION END SQUARENESS OR SKEW	$\pm\frac{1}{8}$"PER 12 INCH WIDTH $\pm\frac{1}{2}$"MAXIMUM
F	SWEEP OVER MEMBER LENGTH	$\pm\frac{3}{8}$"
G	LOCATION OF GROUTED SPLICE COUPLER MEASURED FROM A WORKING LINE	$\pm\frac{1}{4}$"
H	LOCAL SMOOTHNESS OF ANY SURFACE	$\pm\frac{1}{4}$" IN 10 FEET



HEADWALL DETAILS

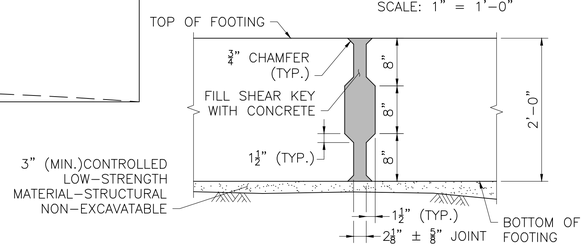
SCALE: 1" = 1'–0"



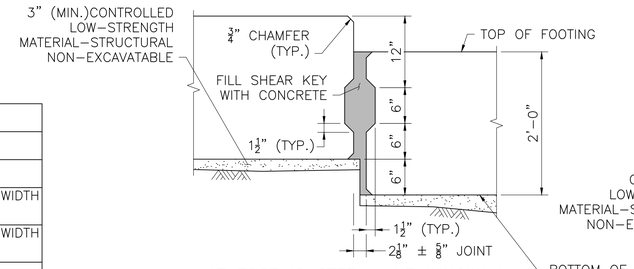
NOTE: REINFORCEMENT IS NOT SHOWN FOR CLARITY.

SECTION THRU WINGWALL STEM SHEAR KEY

SCALE: 1" = 1'–0"



TYPICAL

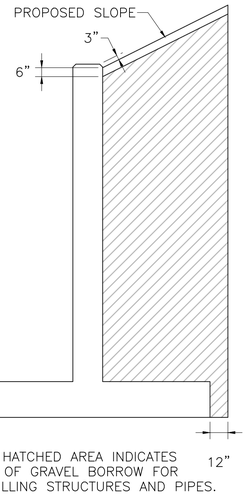


AT FOOTING STEP – NE WINGWALL

NOTE: FOOTING REINFORCEMENT IS NOT SHOWN FOR CLARITY.

SECTION THRU WINGWALL FOOTING SHEAR KEY

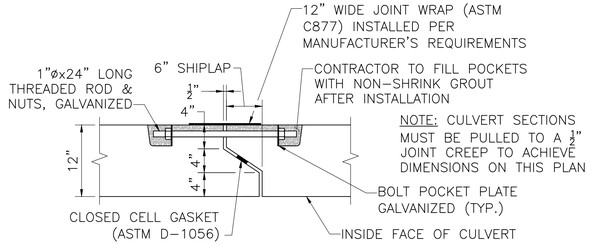
SCALE: 1" = 1'–0"



NOTE: HATCHED AREA INDICATES LIMITS OF GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES.

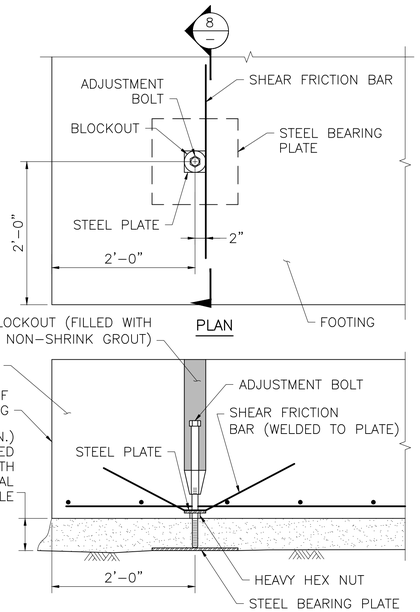
LIMITS OF GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES

SCALE: ¼" = 1'–0"



BOX CULVERT JOINT DETAIL

SCALE: 1" = 1'–0"

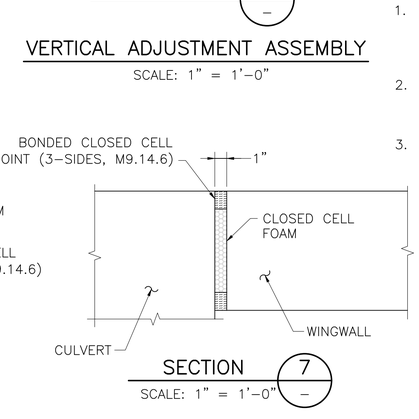


PLAN

SECTION 8

VERTICAL ADJUSTMENT ASSEMBLY

SCALE: 1" = 1'–0"

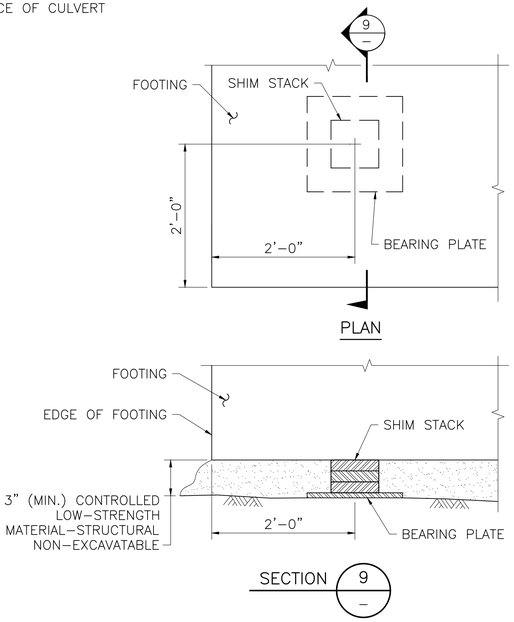


SECTION 7

SCALE: 1" = 1'–0"

EXPANSION JOINT BETWEEN WINGWALL AND CULVERT

SCALE: ¼" = 1'–0"



PLAN

SECTION 9

VERTICAL ADJUSTMENT ASSEMBLY

SCALE: 1" = 1'–0"

NOTES:

1. THE VERTICAL ADJUSTMENT ASSEMBLY SHOWN IS CONCEPTUAL. DESIGN OF THE VERTICAL ADJUSTMENT ASSEMBLY SHALL BE PERFORMED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. VERTICAL ADJUSTMENT ASSEMBLIES CONSISTING OF ADJUSTMENT BOLTS SHALL BE NON–COATED AND THE REINFORCING STEEL WHERE APPLICABLE SHALL CONFORM TO ASTM A706 FOR WELDING.
3. ADJUSTMENT BOLTS SHALL BE REMOVED PRIOR TO PLACEMENT OF NON–SHRINK GROUT.

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	153	221
PROJECT FILE NO.	609204		

MISCELLANEOUS DETAILS 1 OF 2

SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
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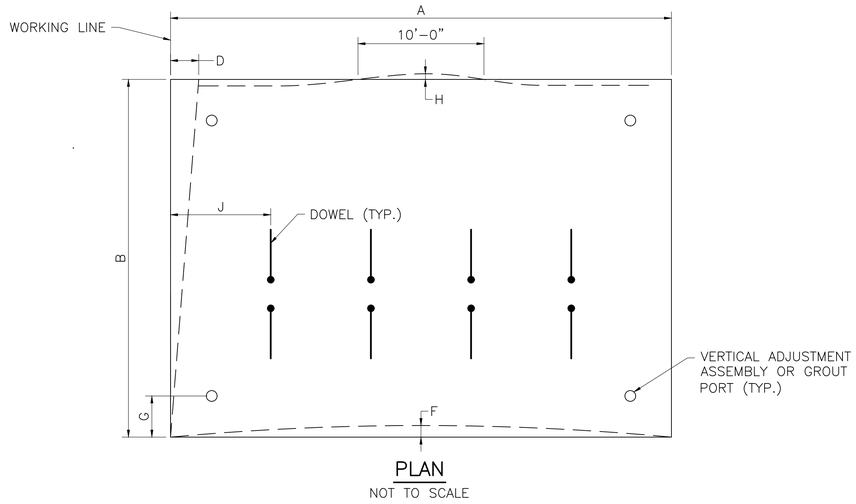
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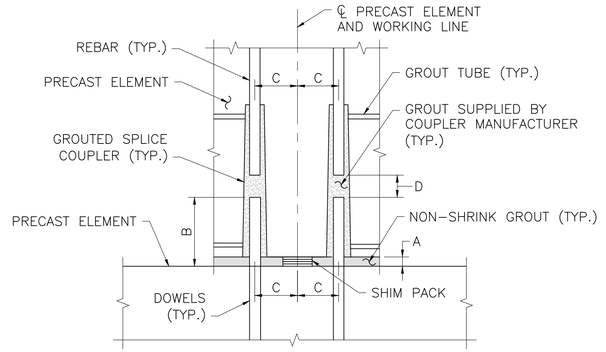
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	154	221
PROJECT FILE NO.	609204		

MISCELLANEOUS DETAILS 2 OF 2



PLAN
NOT TO SCALE

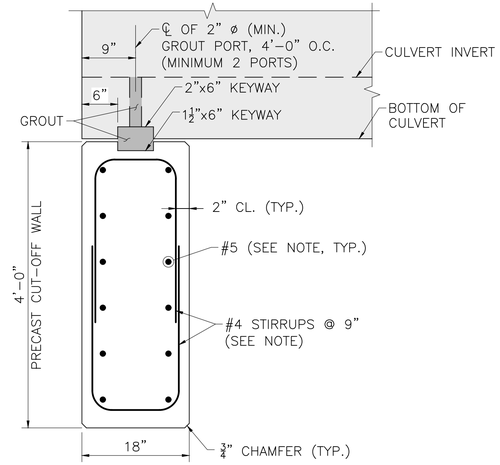


NOTES:

1. USE MATCHING TEMPLATES FOR THE LOCATION OF REINFORCEMENT AND GROUTED SPLICE COUPLER PLACEMENT WITHIN THE ELEMENTS TO CONTROL THE CRITICAL DIMENSION "C".
2. CONSULT MANUFACTURER OF THE GROUTED SPLICE COUPLER FOR PROPER DIMENSIONS "B" AND "D" AND FOR TOLERANCES ON THESE AND ALL DIMENSIONS.
3. BEFORE EXECUTING GROUTED SPLICE COUPLER ASSEMBLIES, ALWAYS SEEK INSTALLATION RECOMMENDATIONS FROM THE MANUFACTURER OF THE GROUTED SPLICE COUPLER USED.

GROUTED SPLICE COUPLER DETAILS

NOT TO SCALE



NOTE:

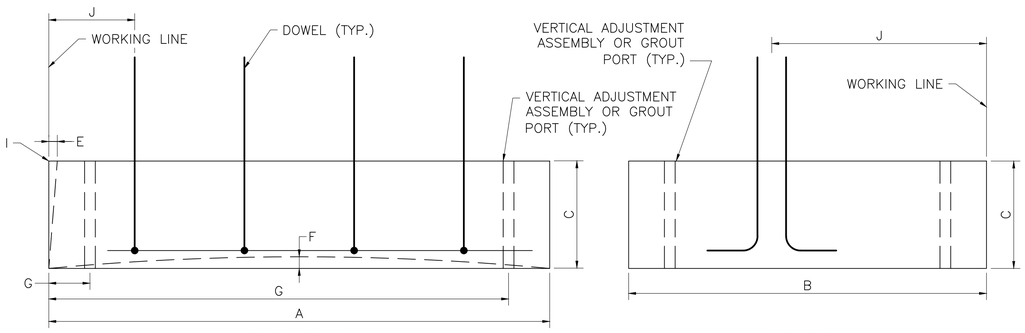
REINFORCEMENT SHOWN IS PRELIMINARY.
CONTRACTOR TO DETERMINE FINAL REINFORCEMENT.

CUT–OFF WALL CONNECTION DETAIL

SCALE: 1" = 1'–0"

GROUTED SPLICE COUPLER INSTALLATION TOLERANCES

A	SHIM PACK HEIGHT	$1\frac{1}{4}" \pm \frac{5}{8}"$
B	DOWEL HEIGHT	CONSULT MANUFACTURER
C	LOCATION OF REINFORCING, GROUTED SPLICE COUPLER, AND DOWELS MEASURED FROM A WORKING LINE	$\pm\frac{1}{4}"$
D	GAP BETWEEN DOWELS AND REINFORCING	CONSULT MANUFACTURER



ELEVATION
NOT TO SCALE

SECTION
NOT TO SCALE

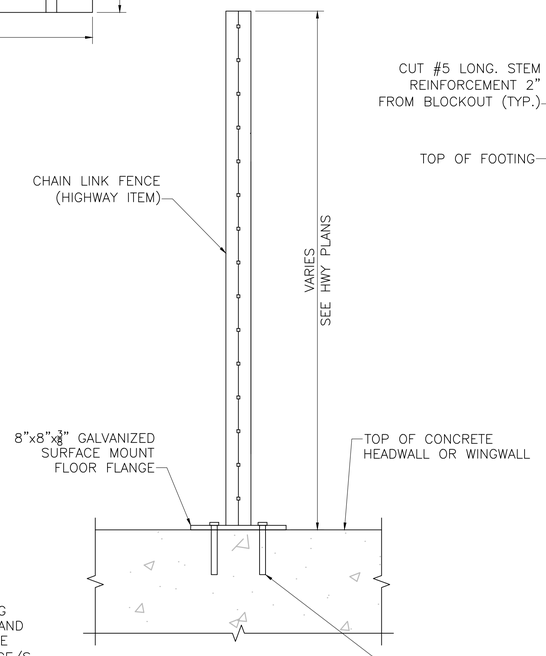
FOOTING FABRICATION TOLERANCES

A	LENGTH (OVERALL)	$\pm\frac{1}{2}"$
B	WIDTH (OVERALL)	$\pm\frac{1}{4}"$
C	DEPTH (OVERALL)	$\pm\frac{1}{4}"$
D	VARIATION FROM SPECIFIED PLAN END SQUARENESS OR SKEW	$\pm\frac{1}{8}"$ PER 12" WIDTH $\pm\frac{1}{2}"$ MAXIMUM
E	VARIATION FROM SPECIFIED ELEVATION END SQUARENESS OR SKEW	$\pm\frac{1}{8}"$ PER 12" WIDTH $\pm\frac{1}{2}"$ MAXIMUM
F	SWEEP OVER MEMBER LENGTH	$\pm\frac{1}{2}"$
G	LOCATION OF LEVELING DEVICE OR GROUT PORT MEASURED FROM A WORKING LINE	±2"
H	LOCAL SMOOTHNESS OF ANY SURFACE	$\pm\frac{1}{8}"$ IN 10 FEET
J	LOCATION OF PROJECTING DOWELS MEASURED FROM A WORKING LINE	±1"

FOOTING ERECTION TOLERANCES

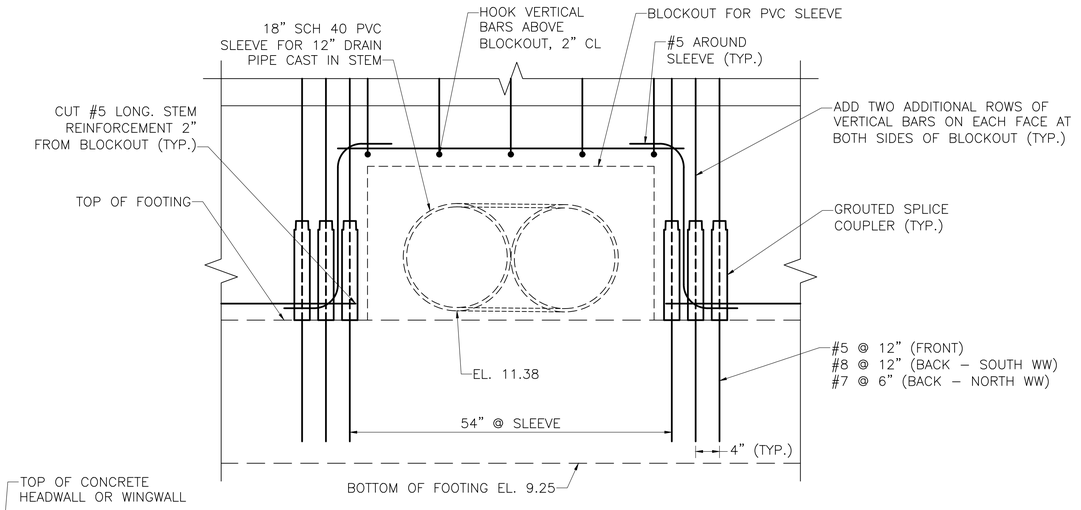
I	ERECTION ELEVATION TOLERANCE	$\pm\frac{1}{4}"$

NOTE: FINAL FENCE DESIGN INCLUDING CONNECTIONS ARE TO BE DESIGNED AND SUBMITTED BY THE CONTRACTOR ONCE FENCE/S HAVE BEEN SELECTED. FENCE/S WILL BE REQUIRED TO MEET MBTA REQUIREMENTS AND WILL BE SUBJECT TO MBTA REVIEW AND APPROVAL.



CLF CONNECTION DETAIL

SCALE: 2" = 1'–0"



DETAIL AT UTILITY SLEEVE THROUGH NORTHEAST PRECAST WINGWALL

SCALE: 1" = 1'–0"

SEPT. 12, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION

THIS SHEET IS APPROVED FOR CONSTRUCTION BY MASSDOT AUTHORIZED SIGNATORY: STATE BRIDGE ENGINEER

USE ONLY PRINTS OF LATEST DATE

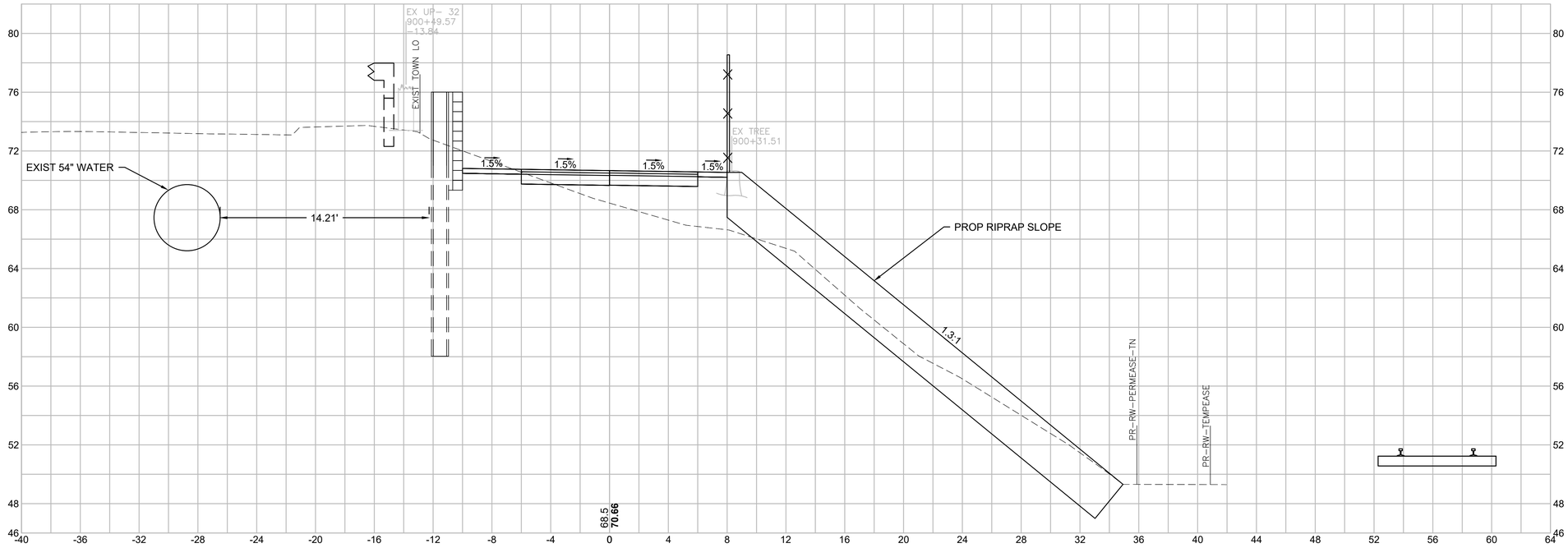
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Final Structural Submittal (SF) 12 - Sept. - 2026

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	155	221
PROJECT FILE NO.	609204		

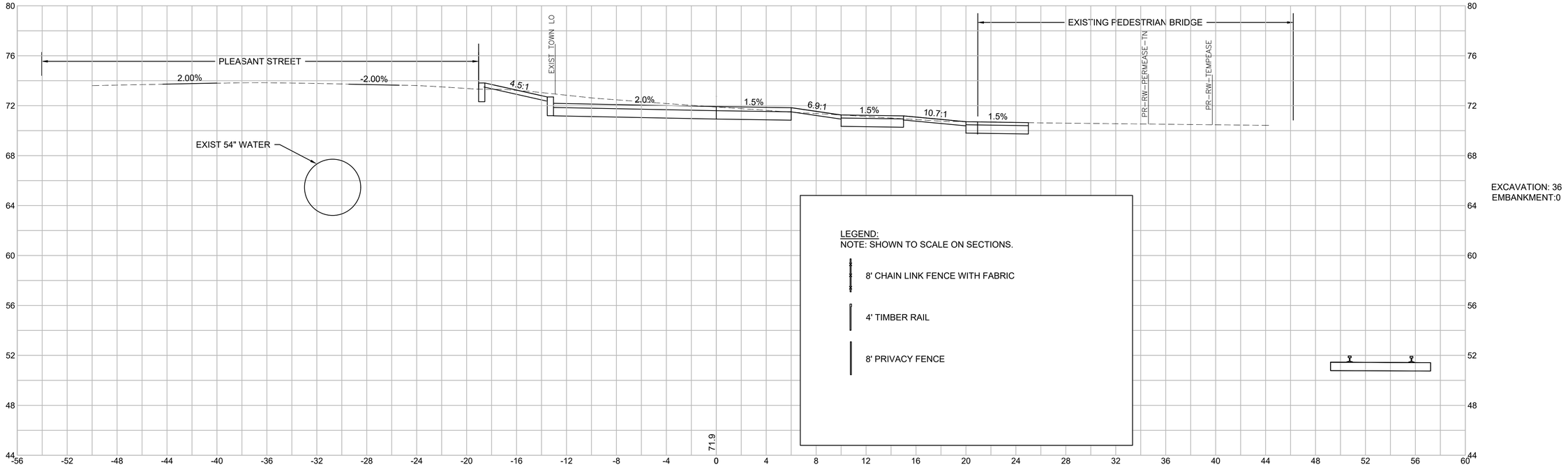
CROSS SECTIONS

900+50



EXCAVATION: 86
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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 9/2/2026 12:11 PM

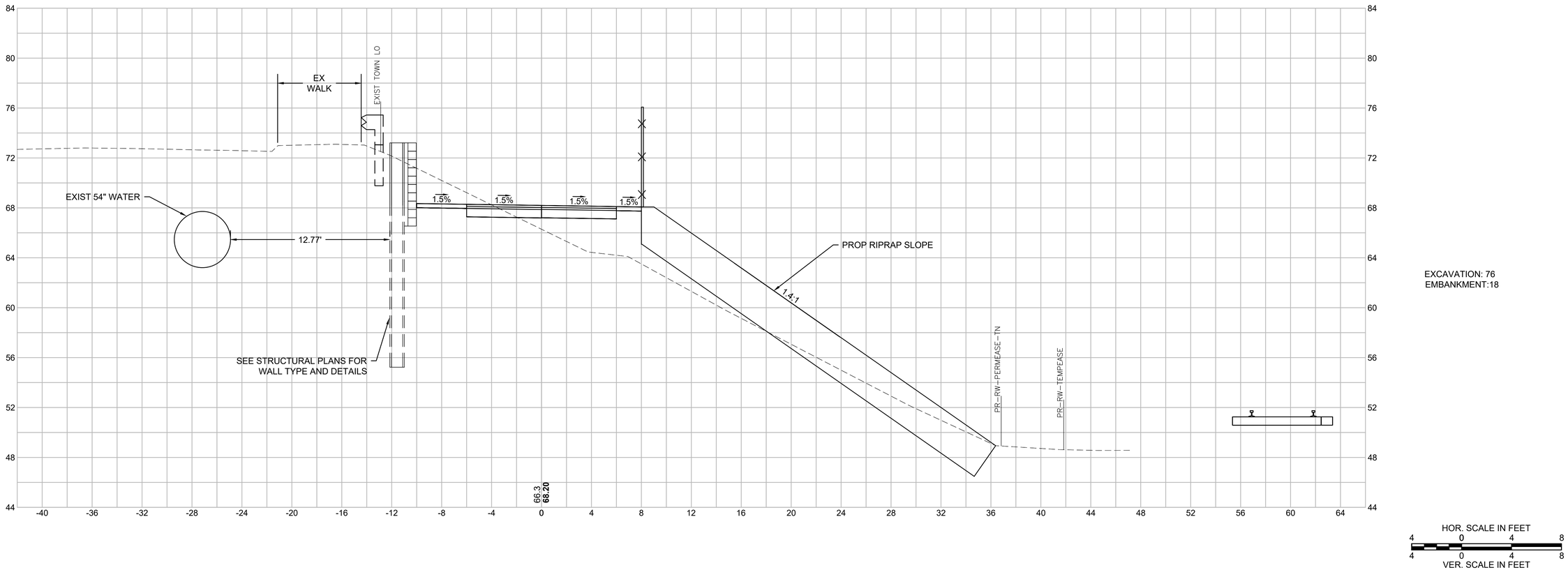
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	156	221
	PROJECT FILE NO. 609204		

CROSS SECTIONS

901+00



EXCAVATION: 76
EMBANKMENT:18

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

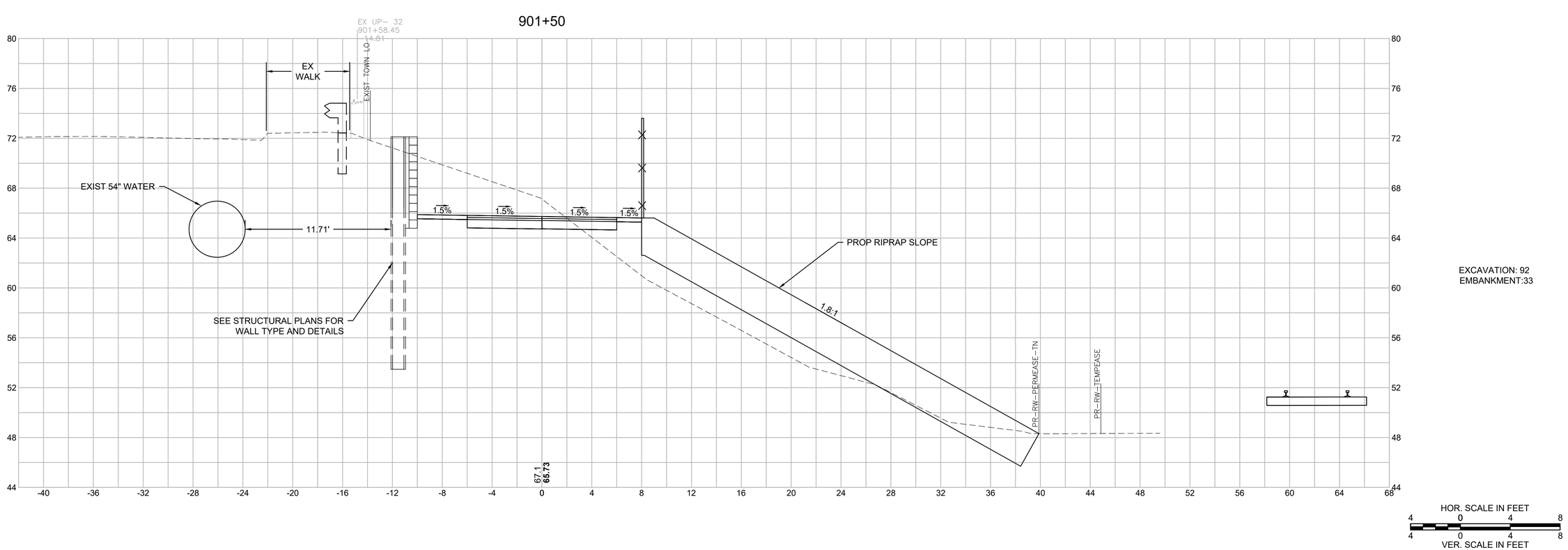
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	157	221
PROJECT FILE NO.	609204		

CROSS SECTIONS



EXCAVATION: 92
EMBANKMENT:33

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

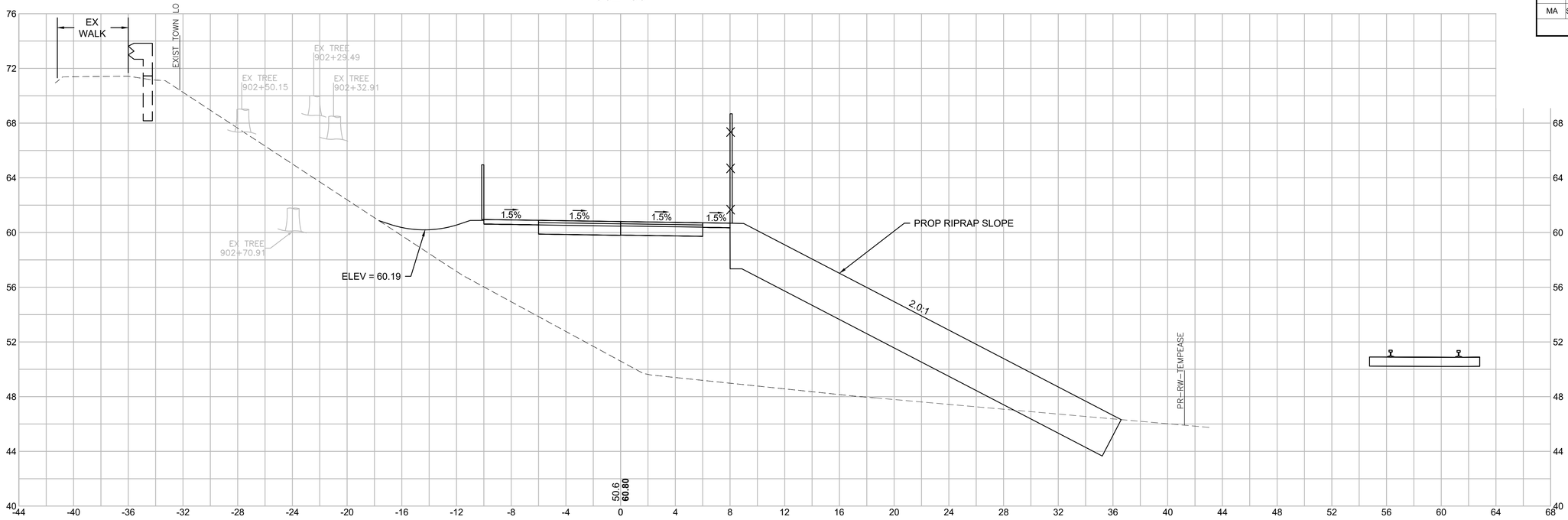
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	158	221
PROJECT FILE NO.	609204		

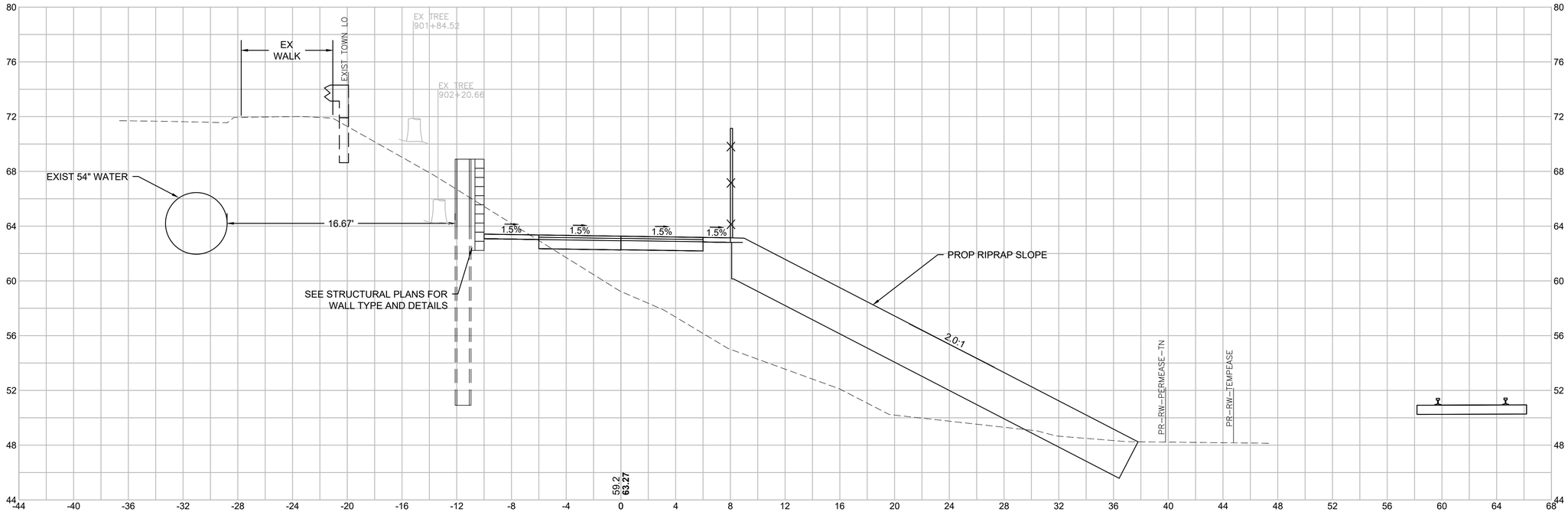
CROSS SECTIONS

902+50



EXCAVATION: 11
EMBANKMENT:254

902+00



EXCAVATION: 41
EMBANKMENT:112

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

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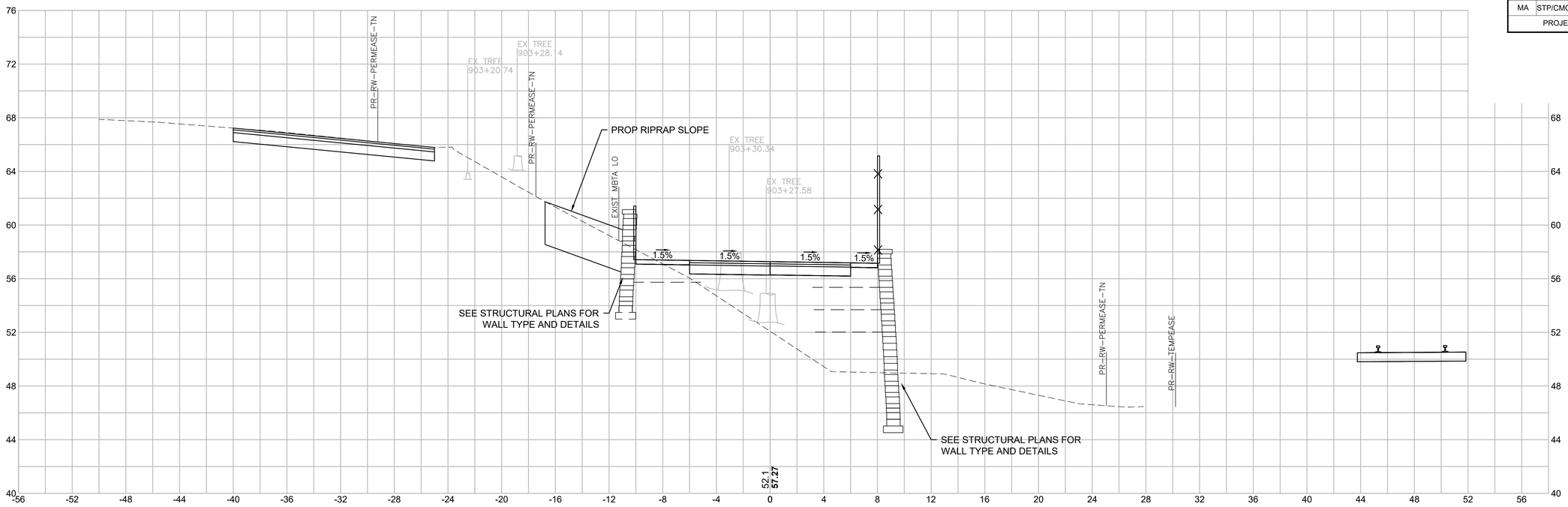
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	159	221
PROJECT FILE NO.	609204		

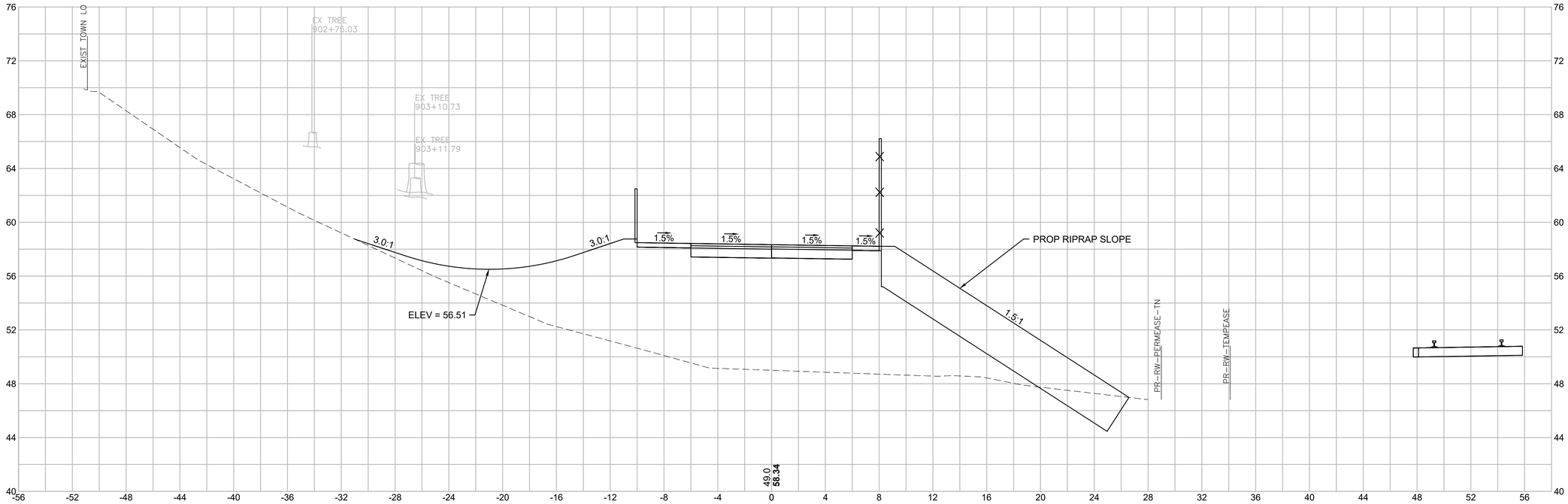
CROSS SECTIONS

903+25



EXCAVATION: 19
EMBANKMENT:134

903+00



EXCAVATION: 9
EMBANKMENT:253

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 9/2/2026 12:12 PM

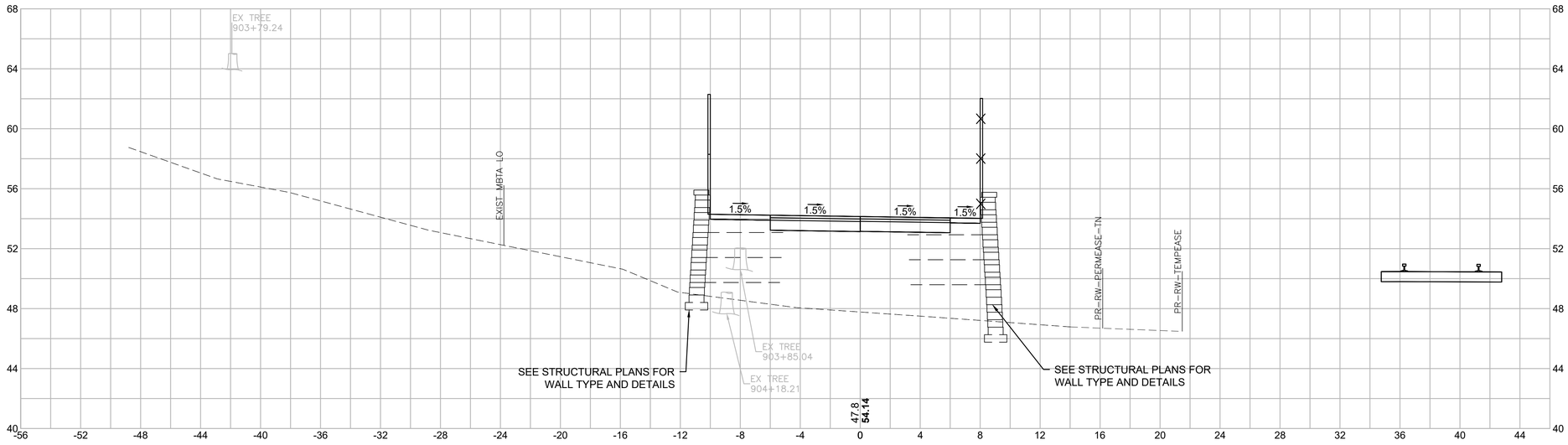
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	160	221
PROJECT FILE NO.	609204		

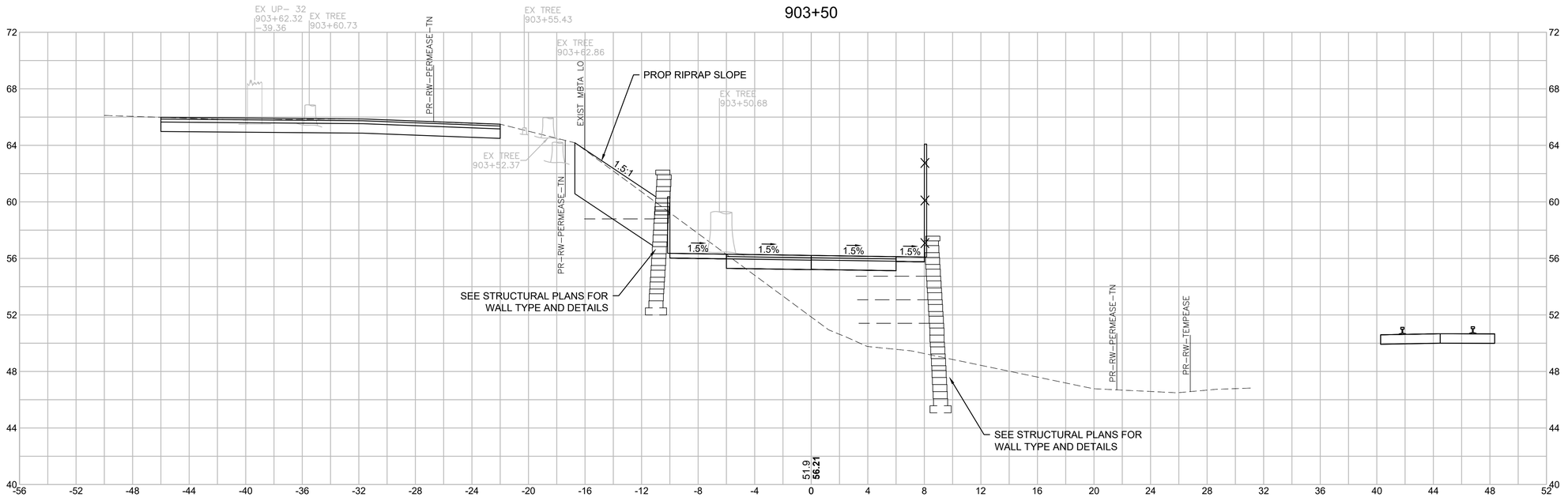
CROSS SECTIONS

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

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 9/2/2026 12:12 PM

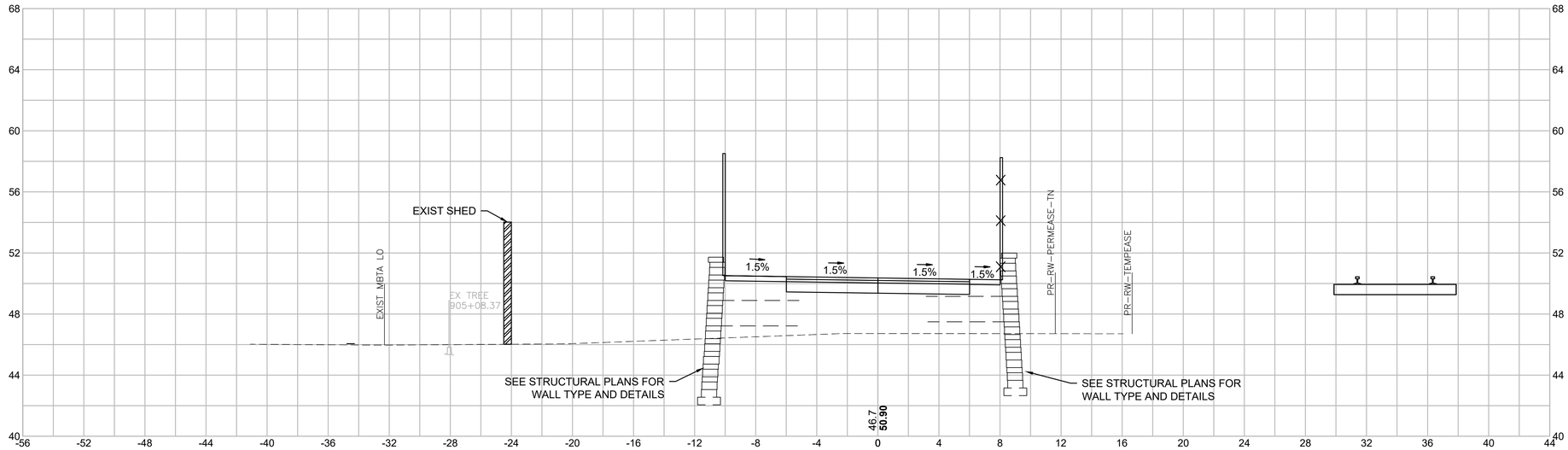
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	161	221
	PROJECT FILE NO. 609204		

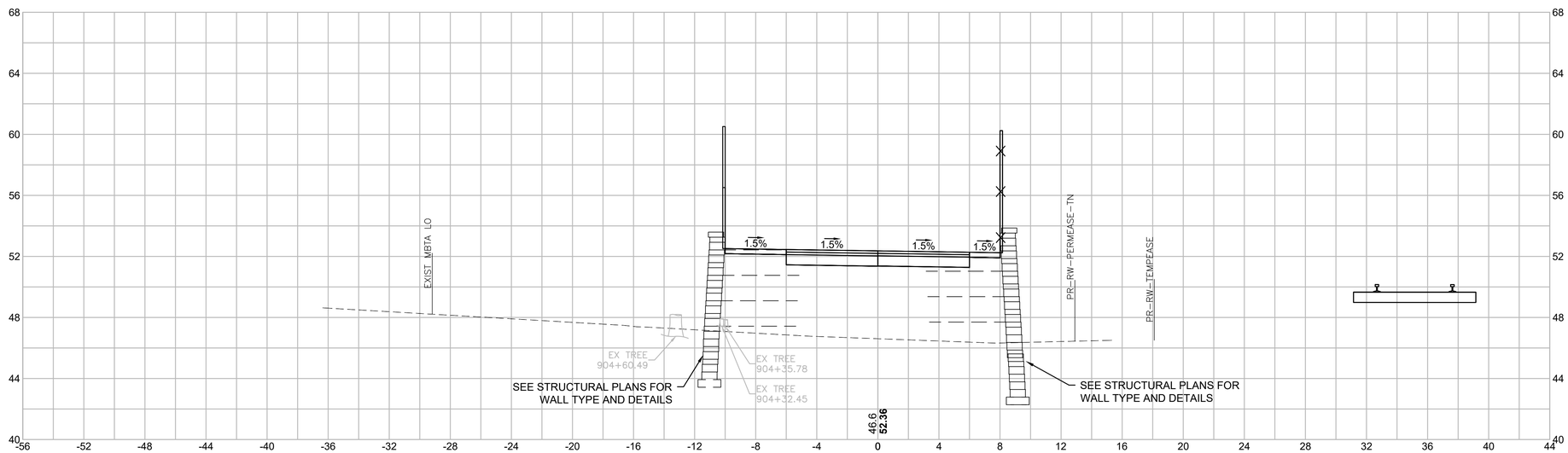
CROSS SECTIONS

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 9/2/2026 12:12 PM

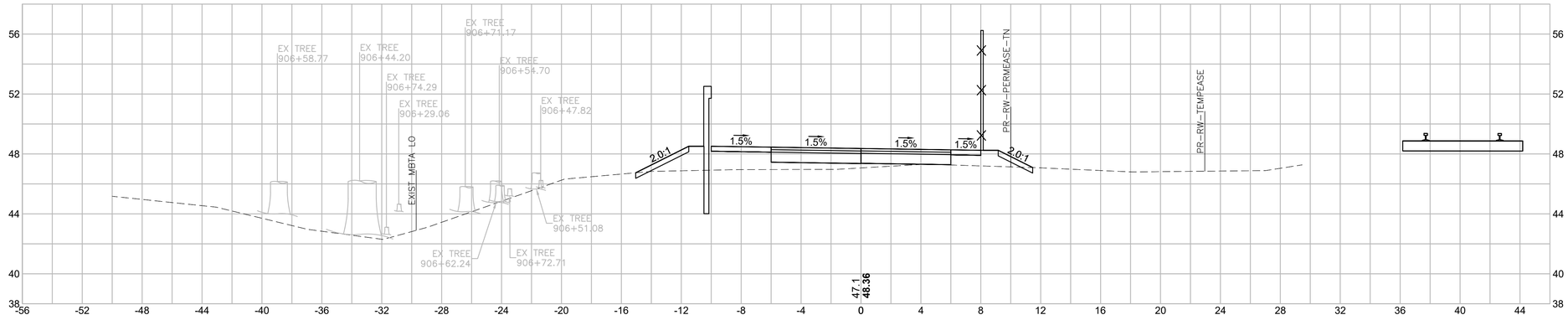
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	162	221
PROJECT FILE NO.	609204		

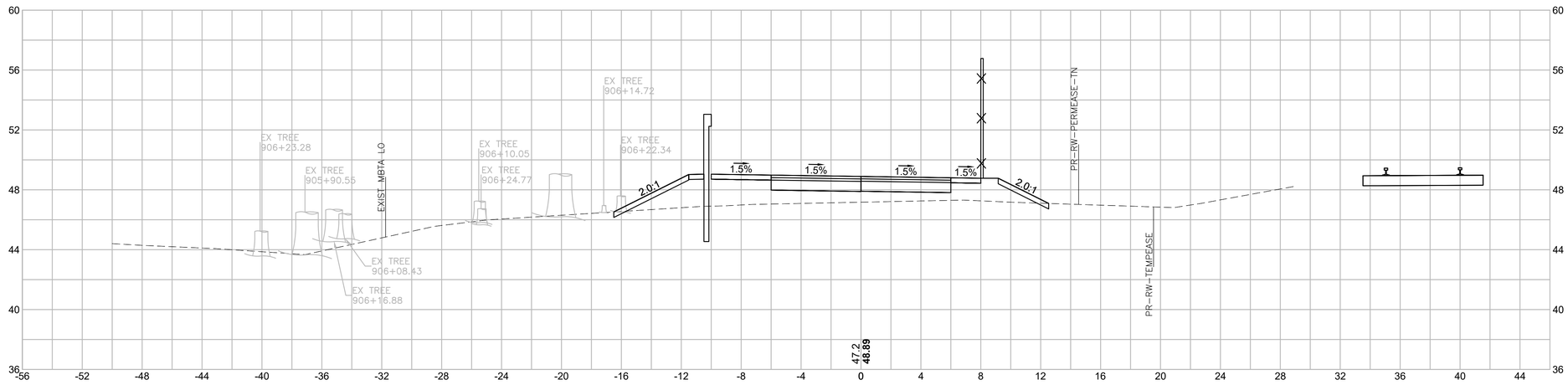
CROSS SECTIONS

906+50



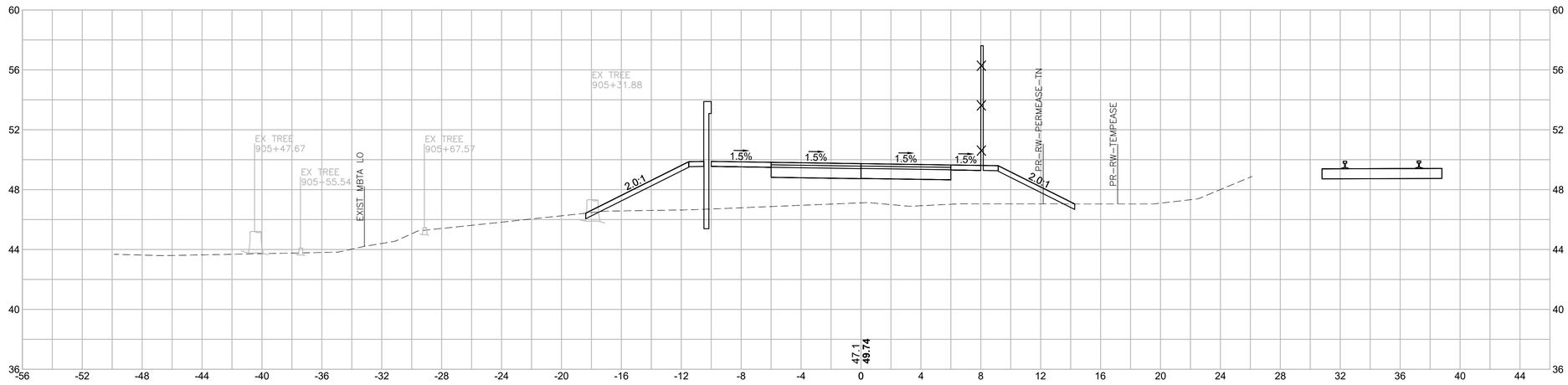
EXCAVATION:0
EMBANKMENT:33

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 Sep-26 12:13 PM

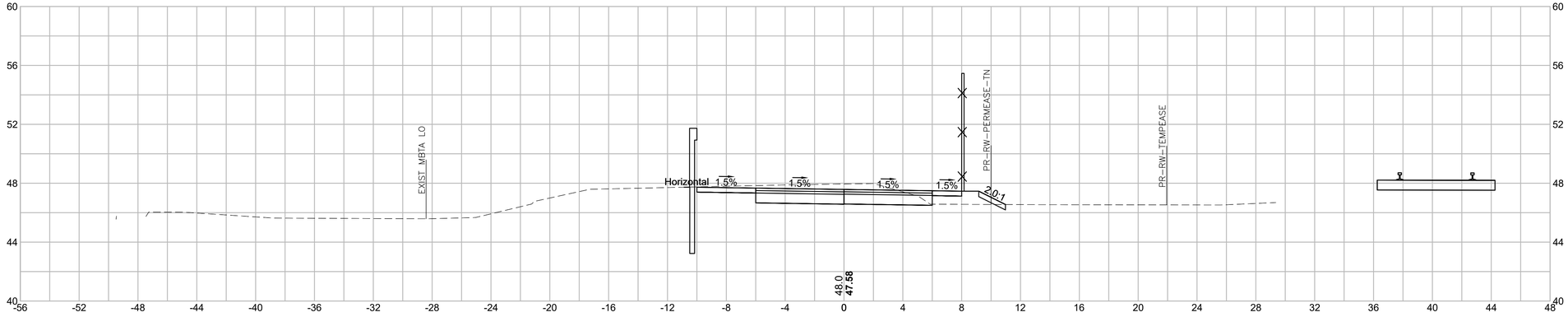
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

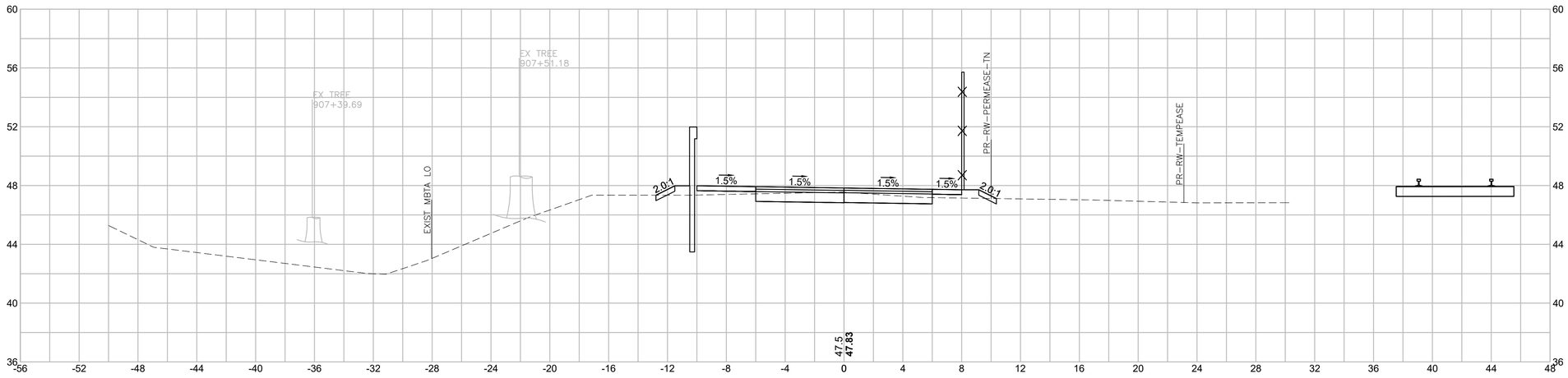
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	163	221
PROJECT FILE NO.	609204		

CROSS SECTIONS

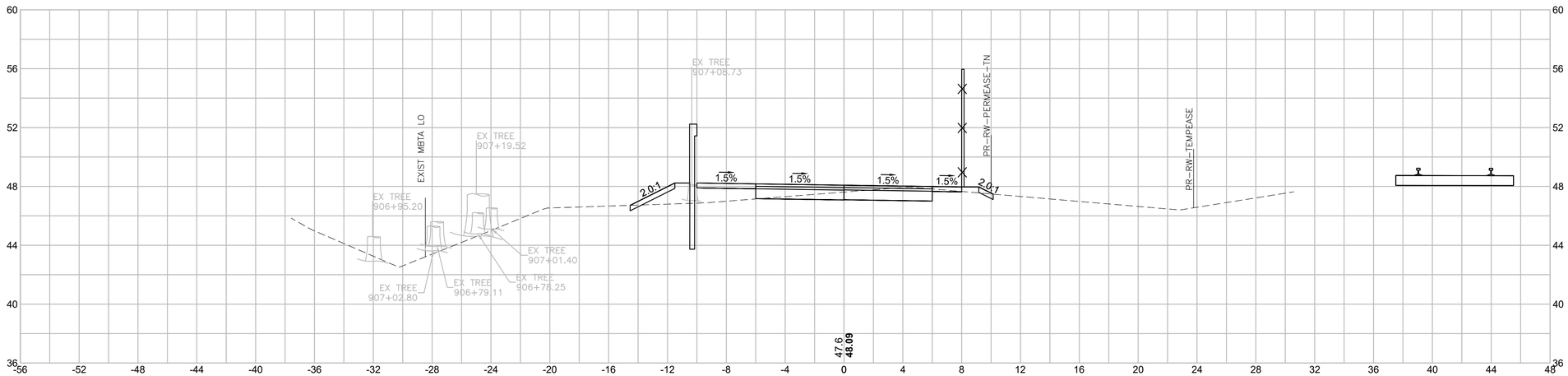
908+00



907+50



907+00



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

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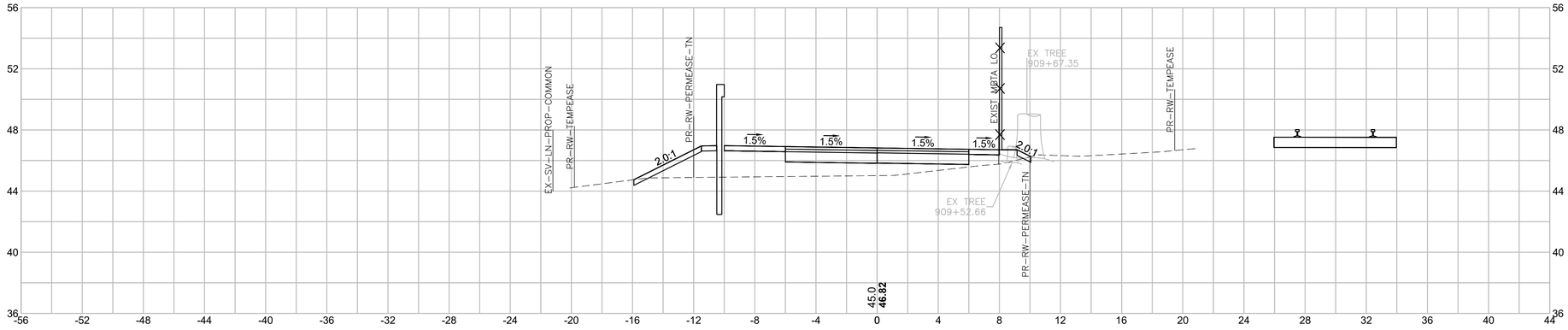
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	164	221
PROJECT FILE NO.	609204		

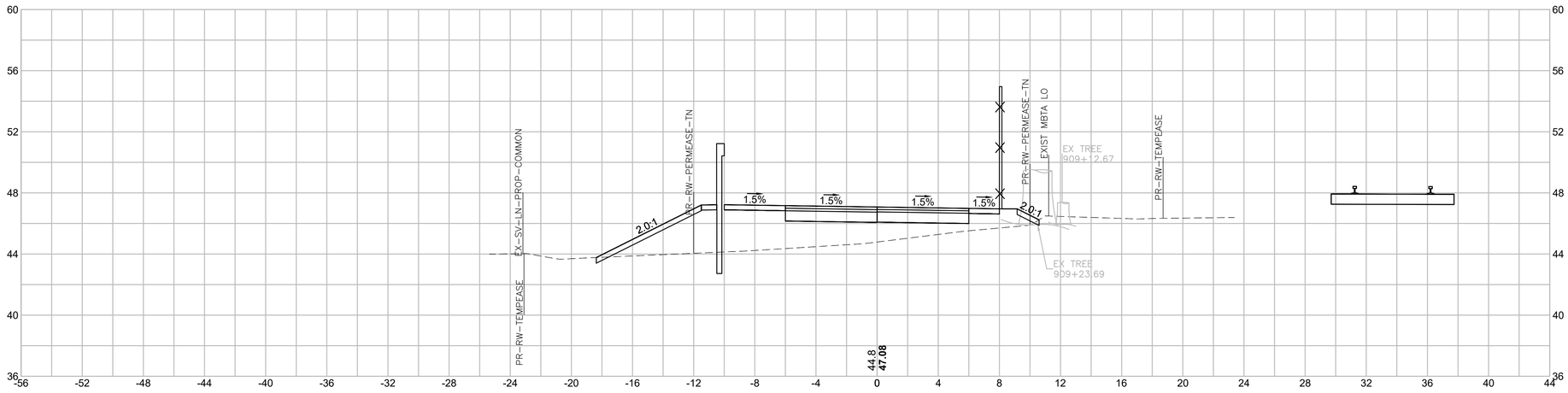
CROSS SECTIONS

909+50



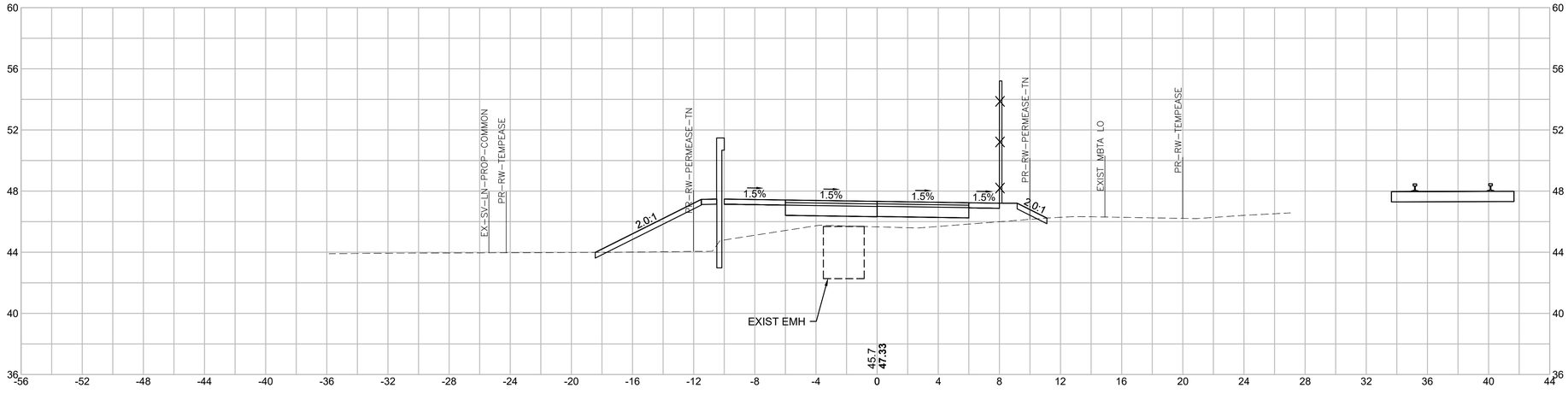
EXCAVATION: 0
EMBANKMENT:22

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 Sep-26 12:13 PM

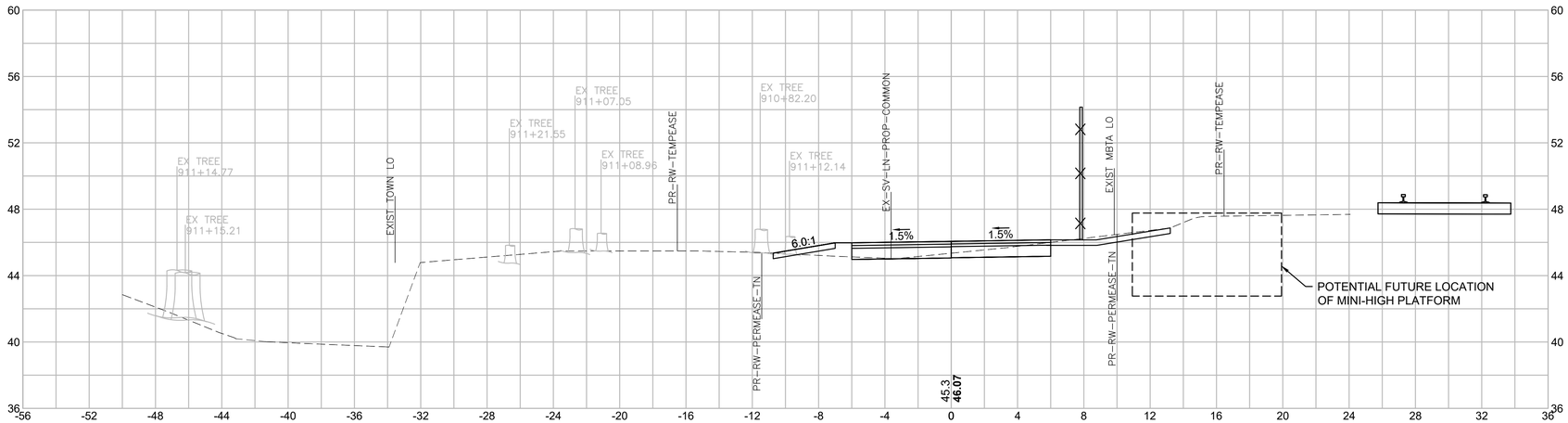
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	165	221
PROJECT FILE NO.	609204		

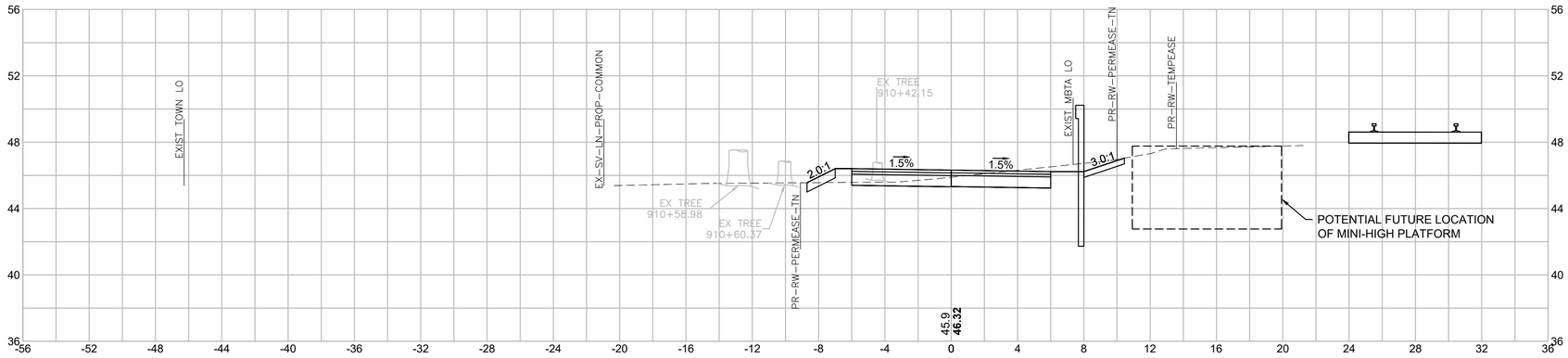
CROSS SECTIONS

911+00



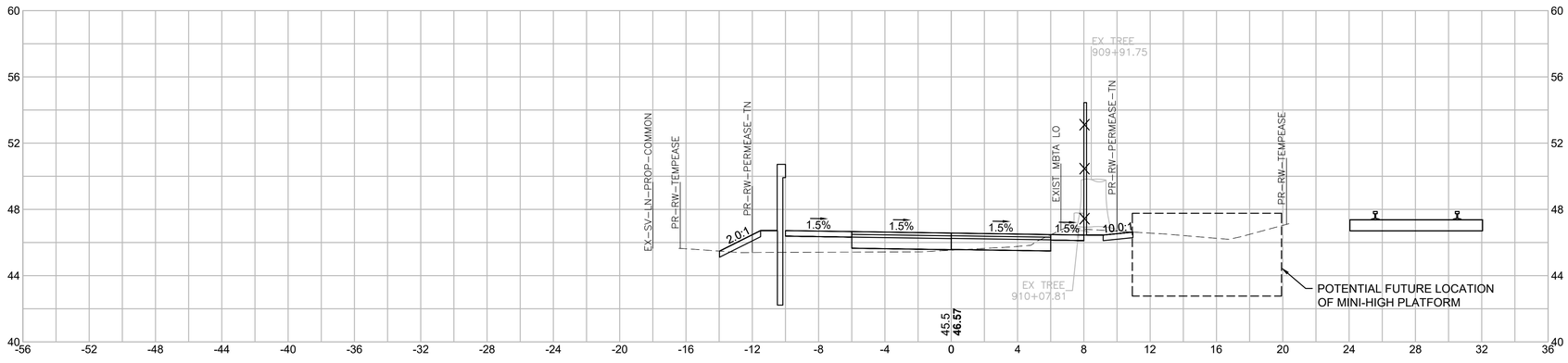
EXCAVATION: 2
EMBANKMENT:8

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 9/2/2026 12:13 PM

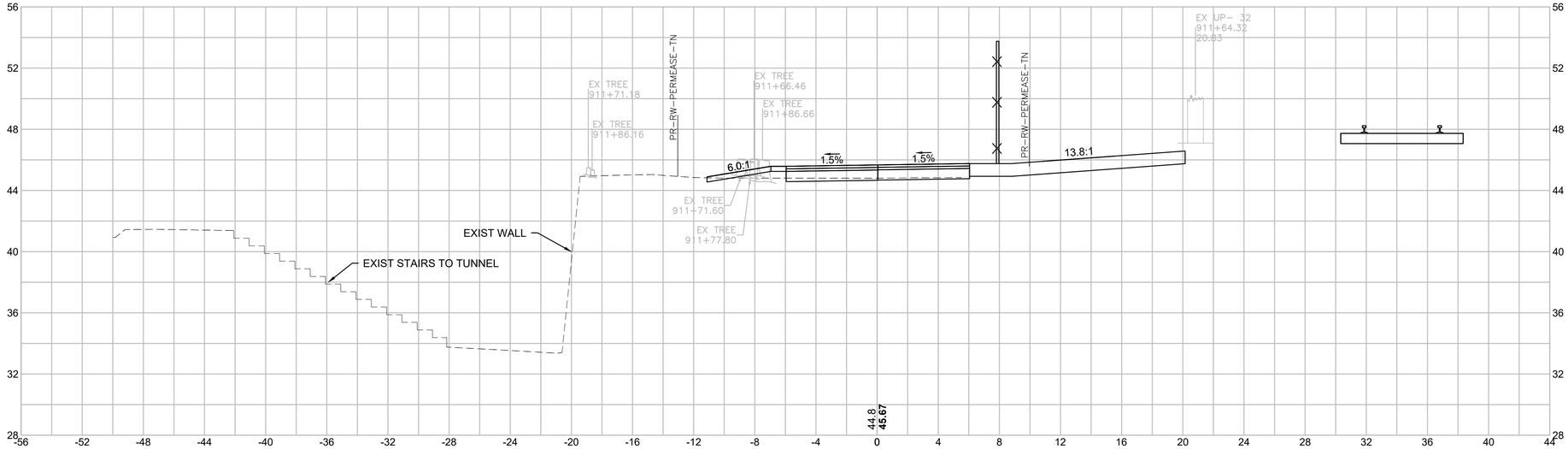
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:13 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	166	221
	PROJECT FILE NO. 609204		

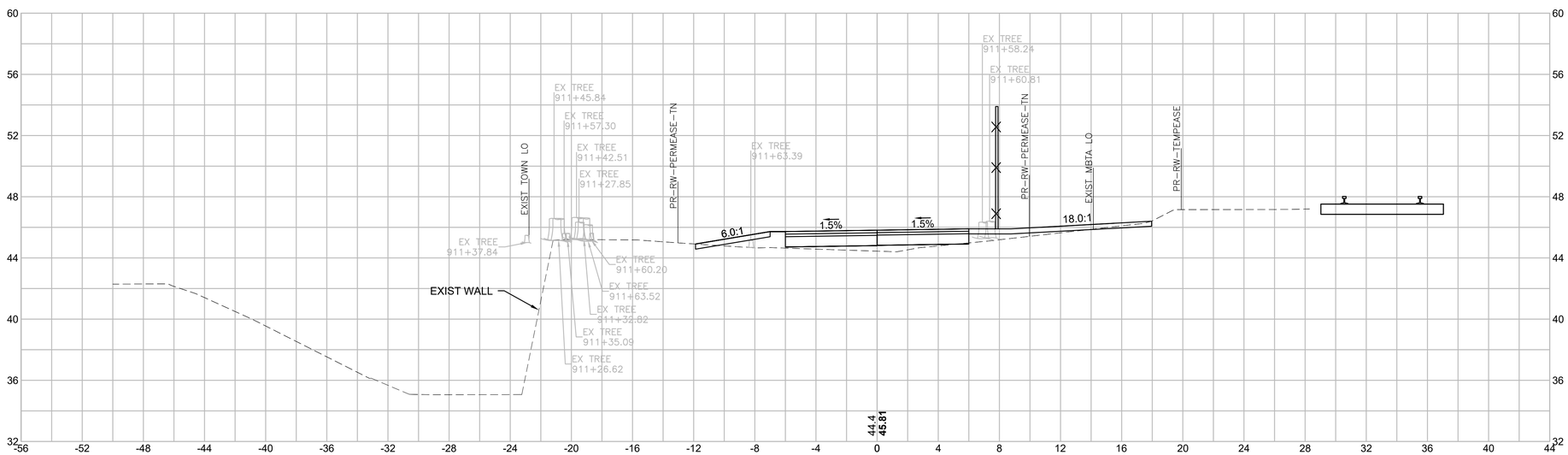
CROSS SECTIONS

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 9/2/2026 12:13 PM

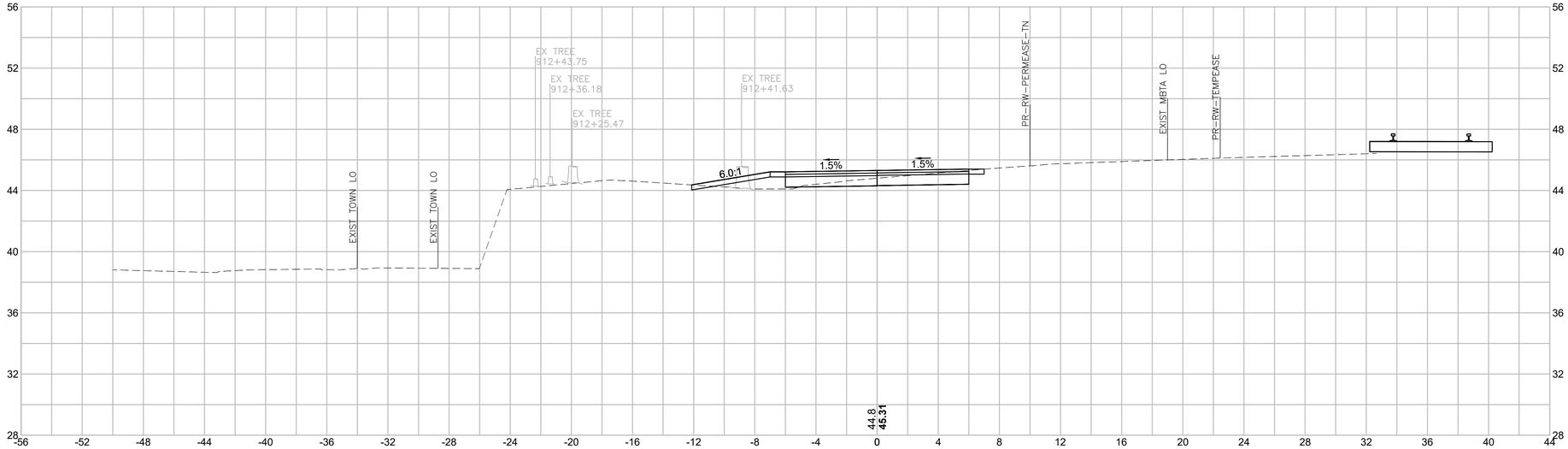
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	167	221
PROJECT FILE NO.	609204		

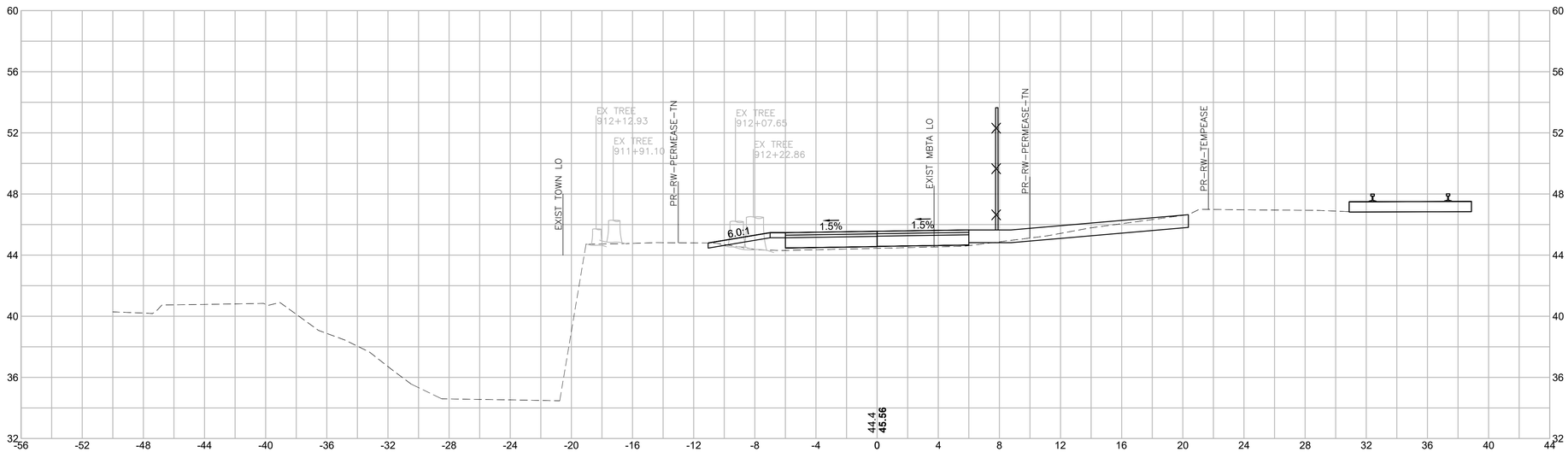
CROSS SECTIONS

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

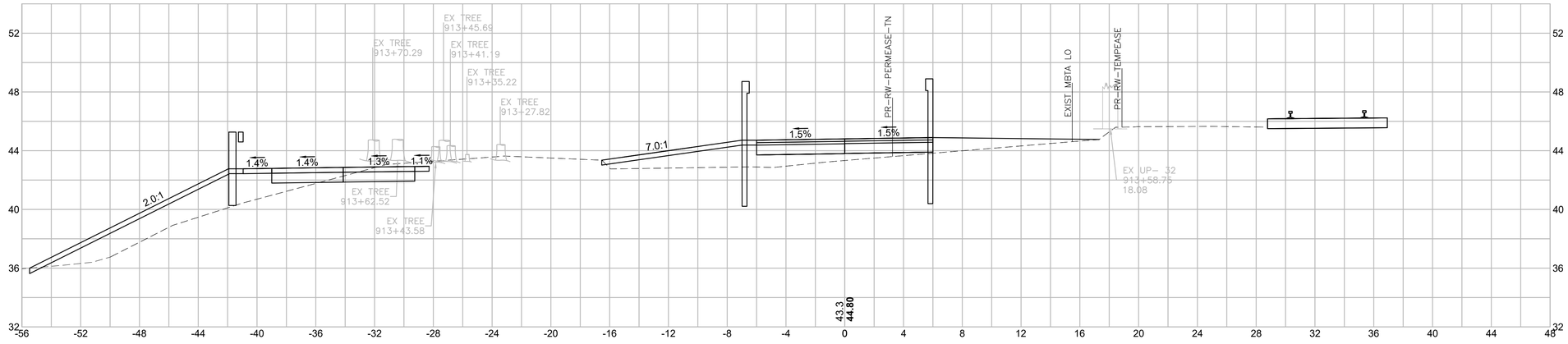
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609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:14 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	168	221
PROJECT FILE NO.	609204		

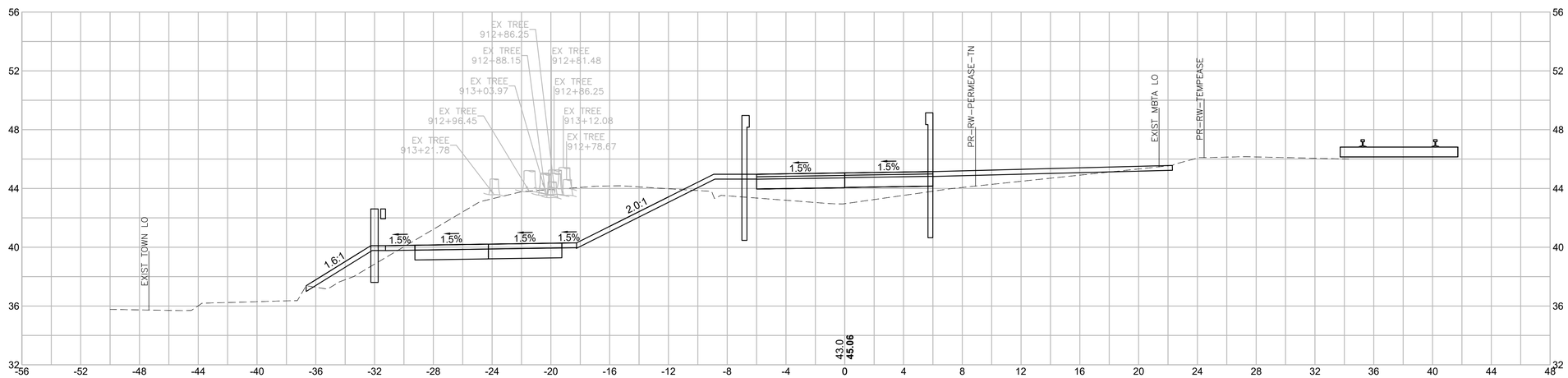
CROSS SECTIONS

913+50



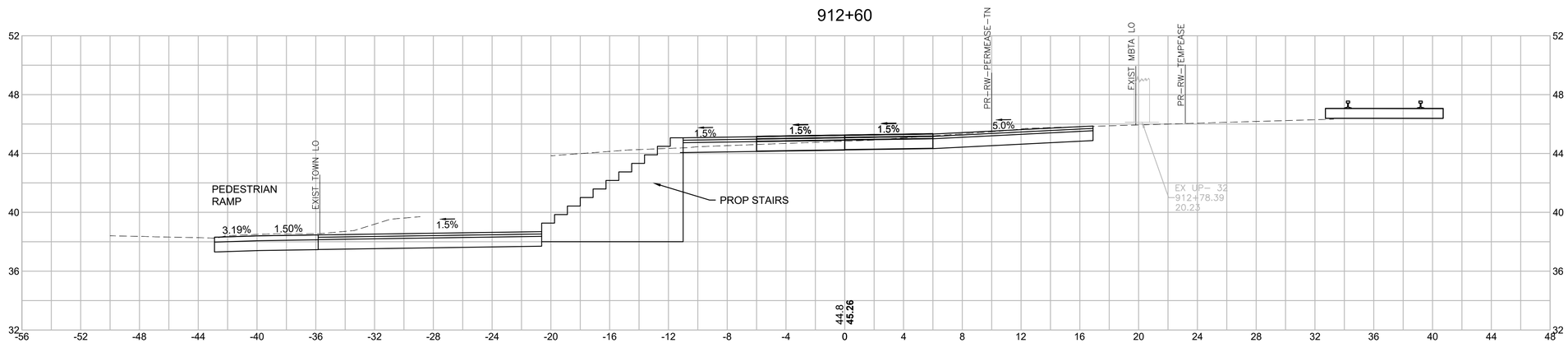
EXCAVATION: 6
EMBANKMENT:35

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 Sep-26 12:14 PM

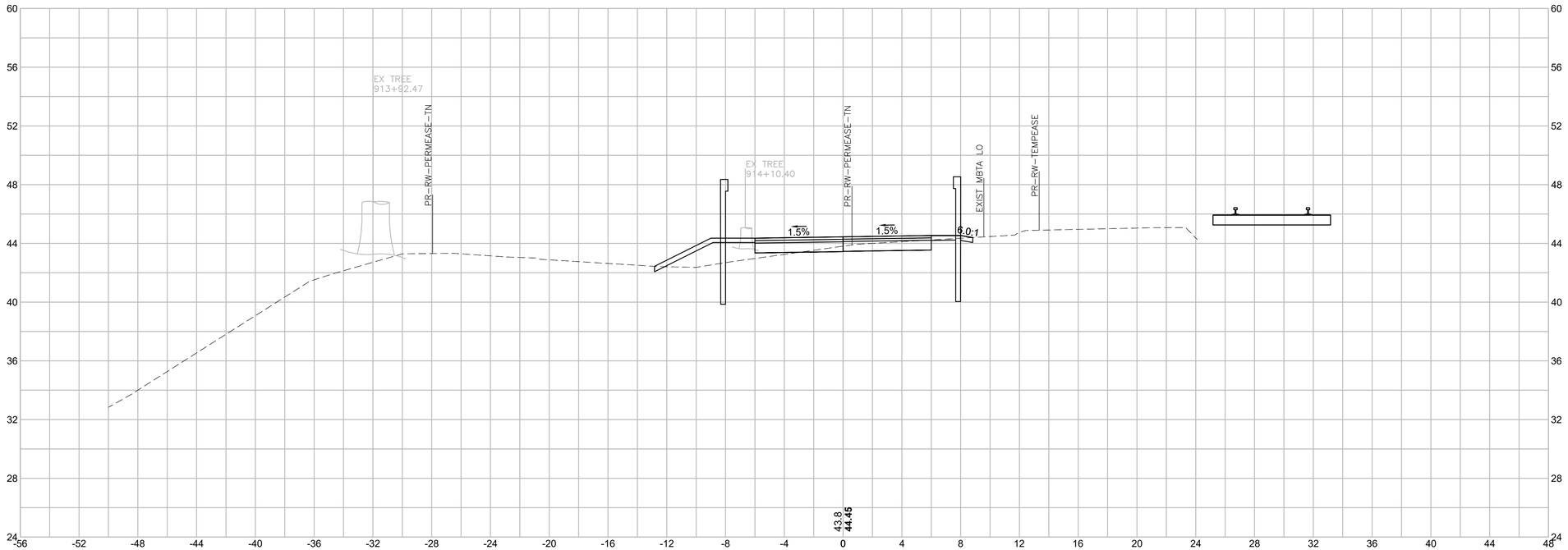
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	169	221
PROJECT FILE NO.	609204		

CROSS SECTIONS

914+00



EXCAVATION: 6
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 9/2/2026 12:14 PM

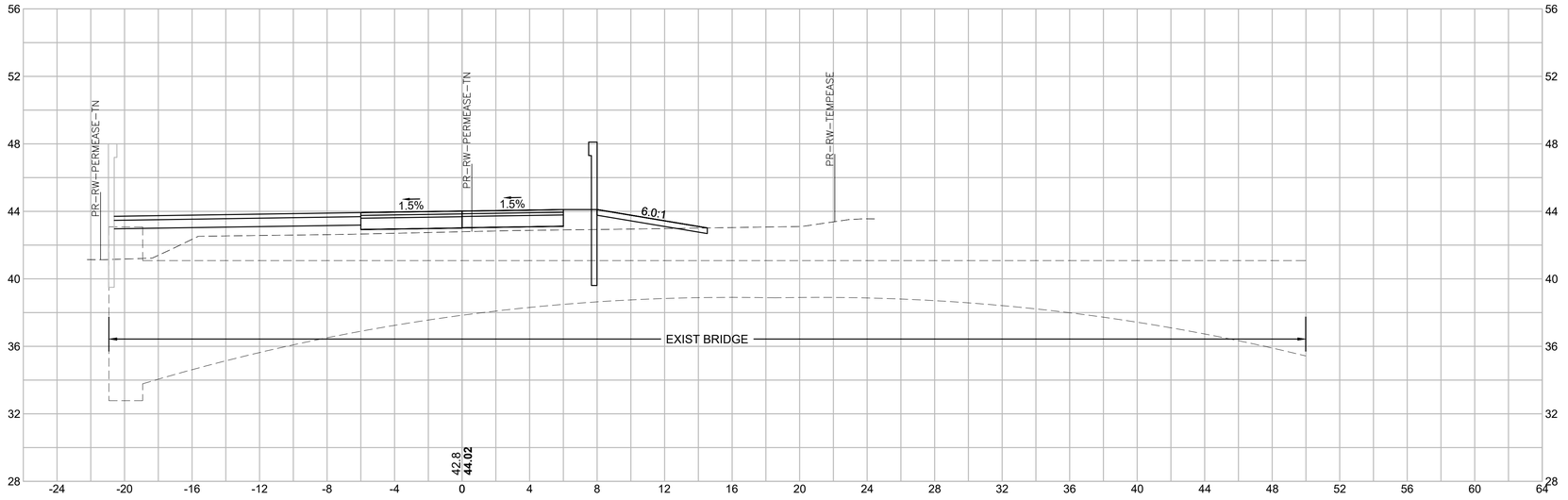
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	170	221
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 9/2/2026 12:14 PM

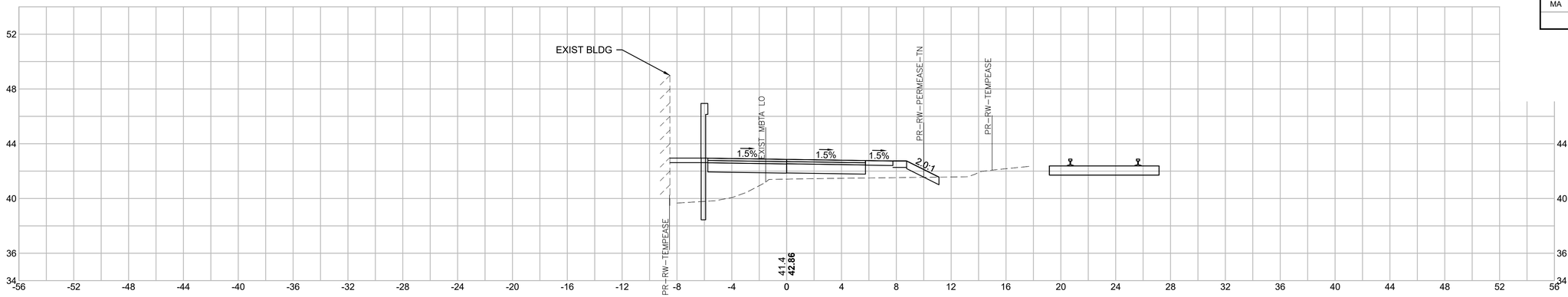
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:14 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	171	221
PROJECT FILE NO.	609204		

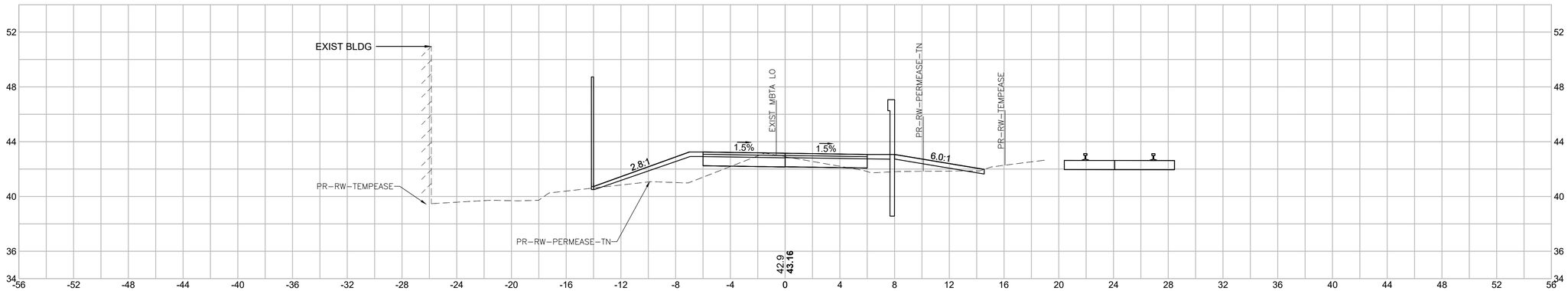
CROSS SECTIONS

915+85



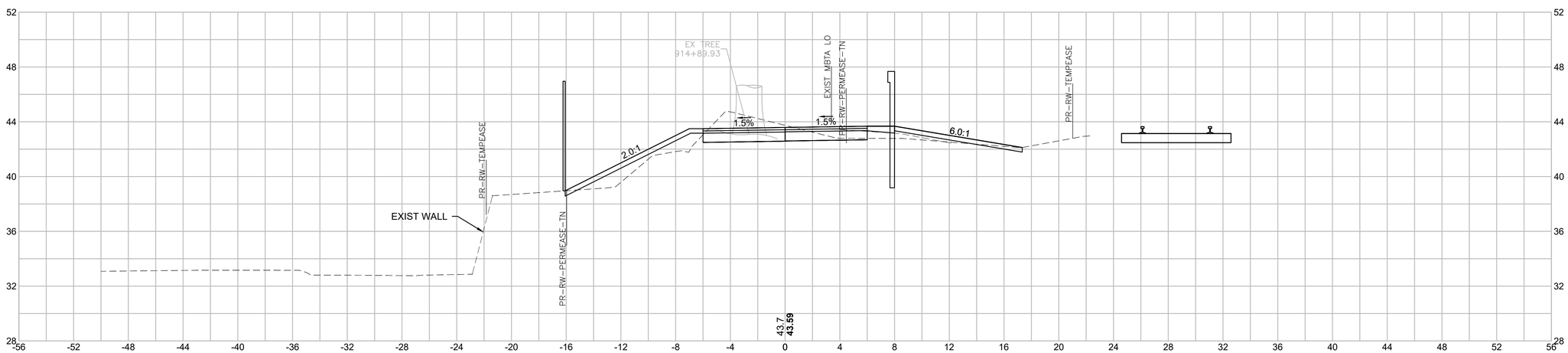
EXCAVATION: 2
EMBANKMENT: 19

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

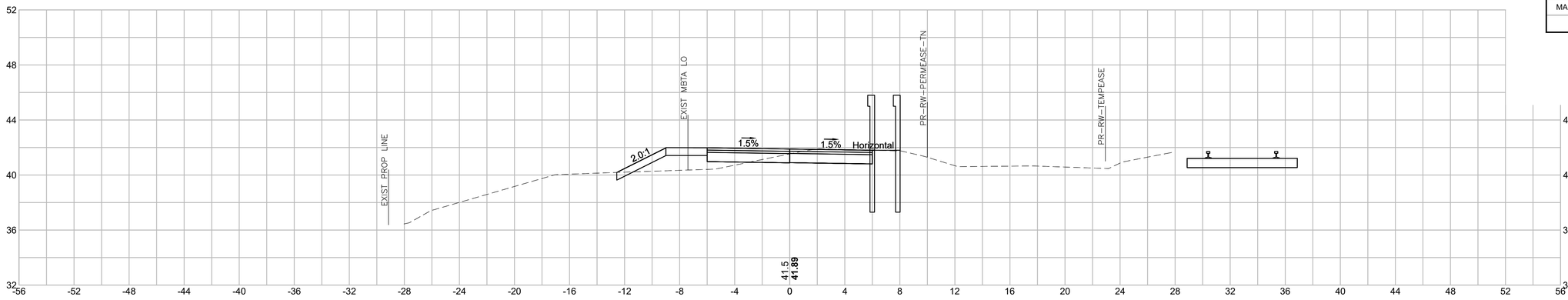
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609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:15 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	172	221
PROJECT FILE NO.	609204		

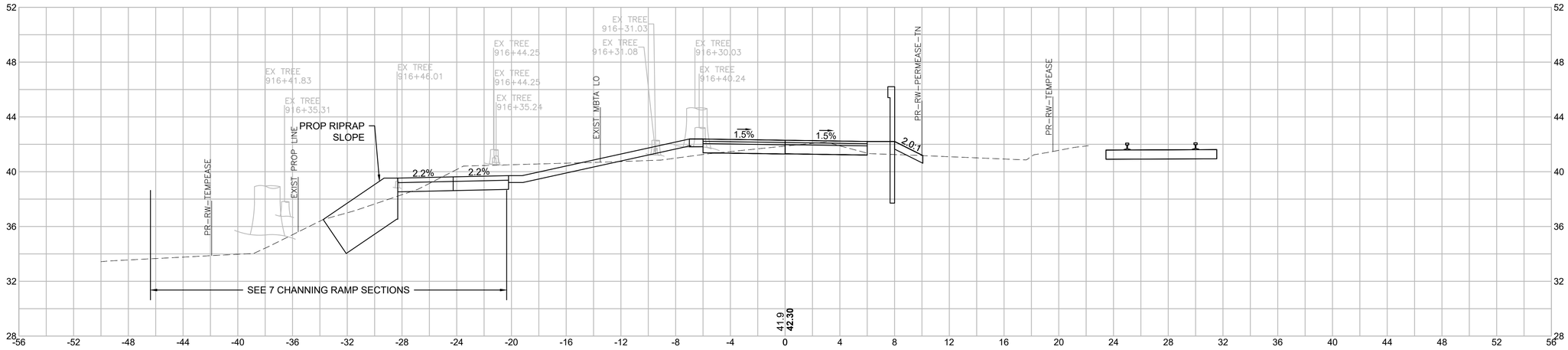
CROSS SECTIONS

917+00



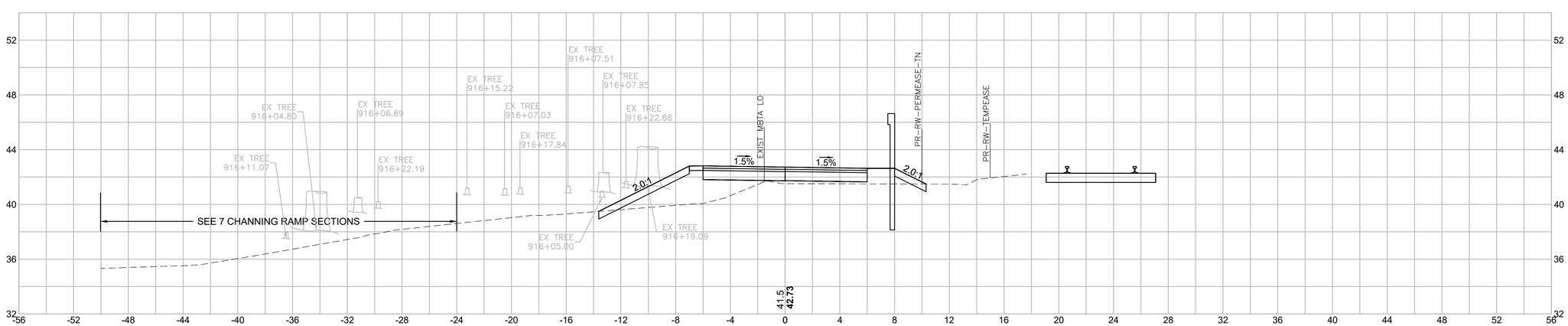
EXCAVATION: 3
EMBANKMENT:8

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 9/2/2026 12:15 PM

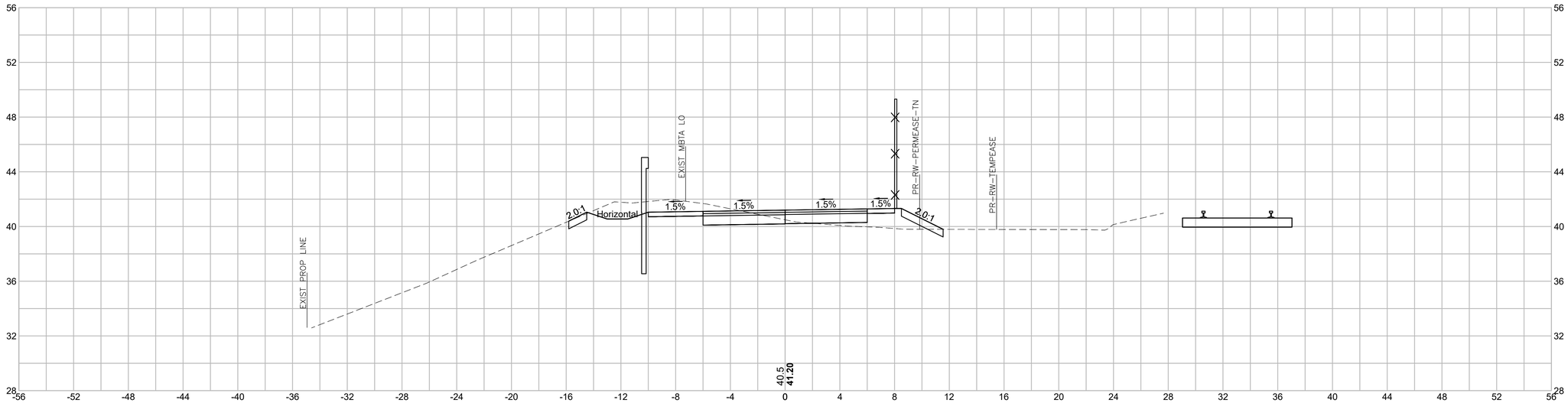
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:15 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	173	221
PROJECT FILE NO.	609204		

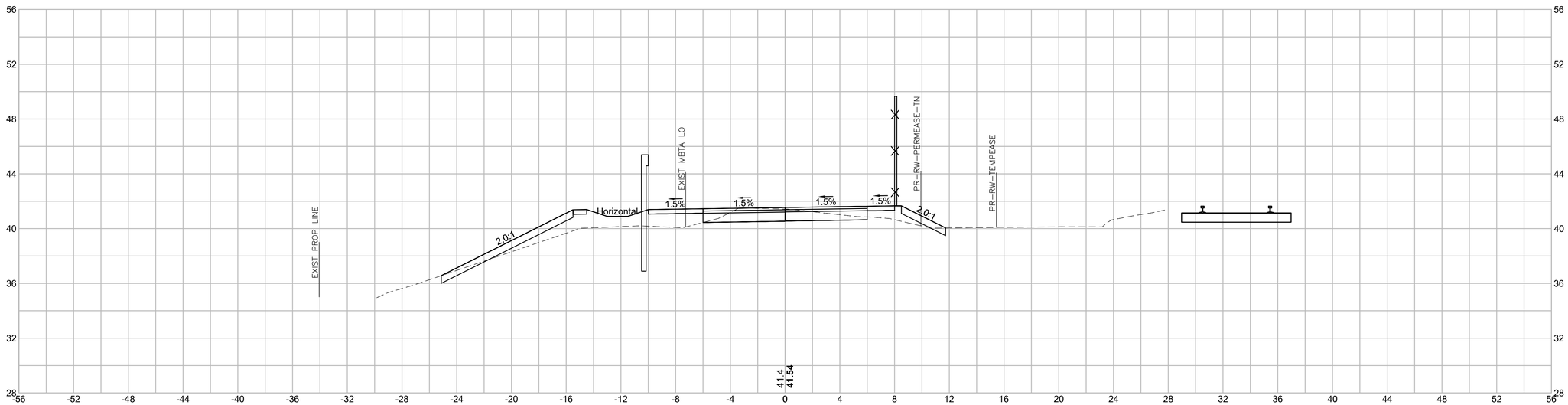
CROSS SECTIONS

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

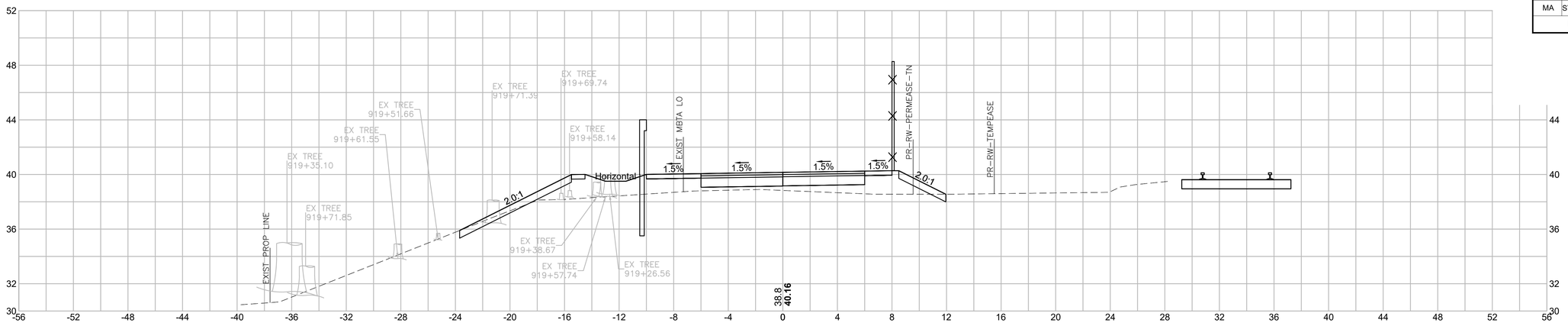
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609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:15 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	174	221
PROJECT FILE NO.	609204		

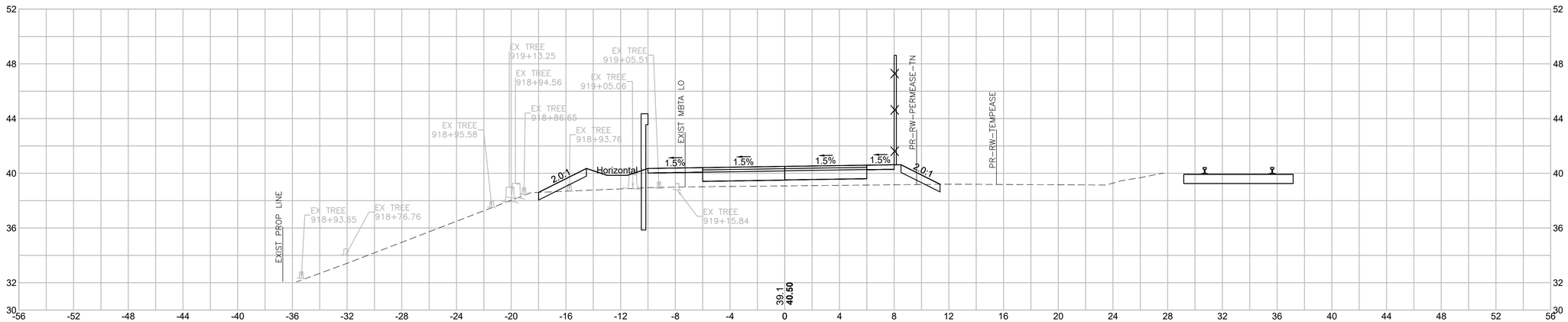
CROSS SECTIONS

919+50



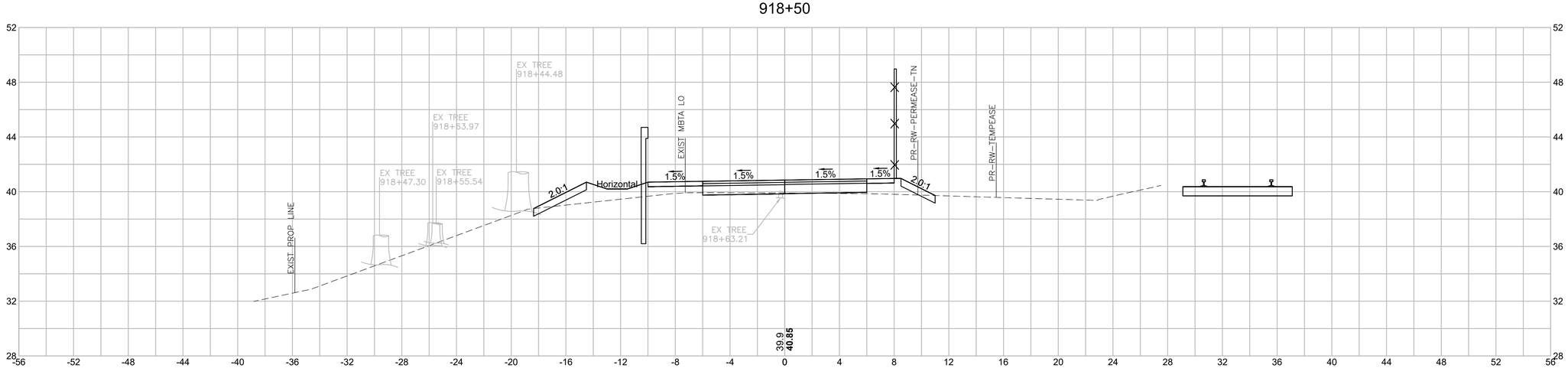
EXCAVATION: 3
EMBANKMENT:22

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 9/2/2026 12:15 PM

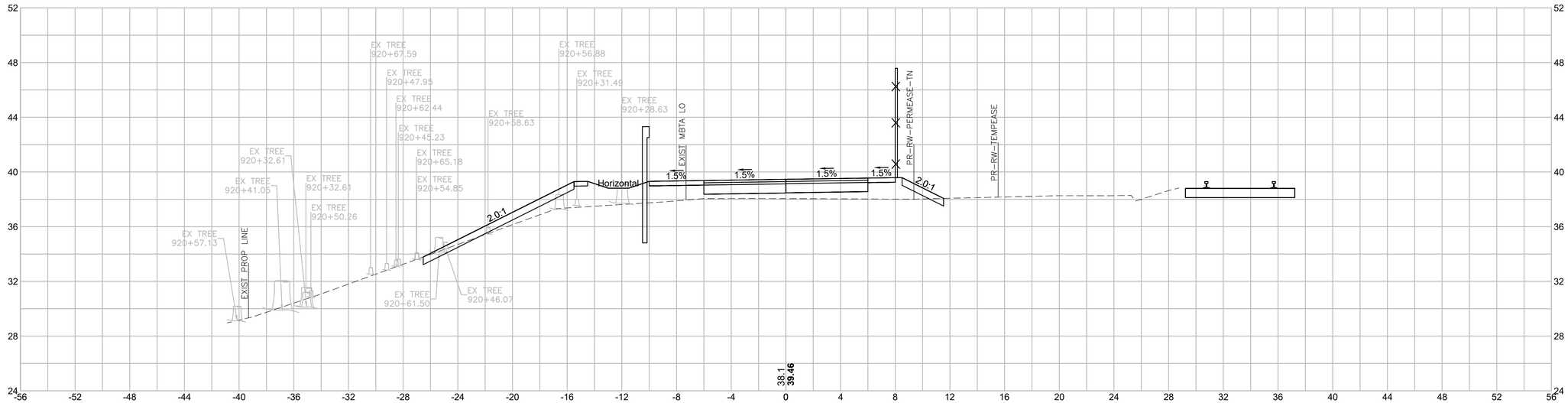
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:15 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	175	221
PROJECT FILE NO.	609204		

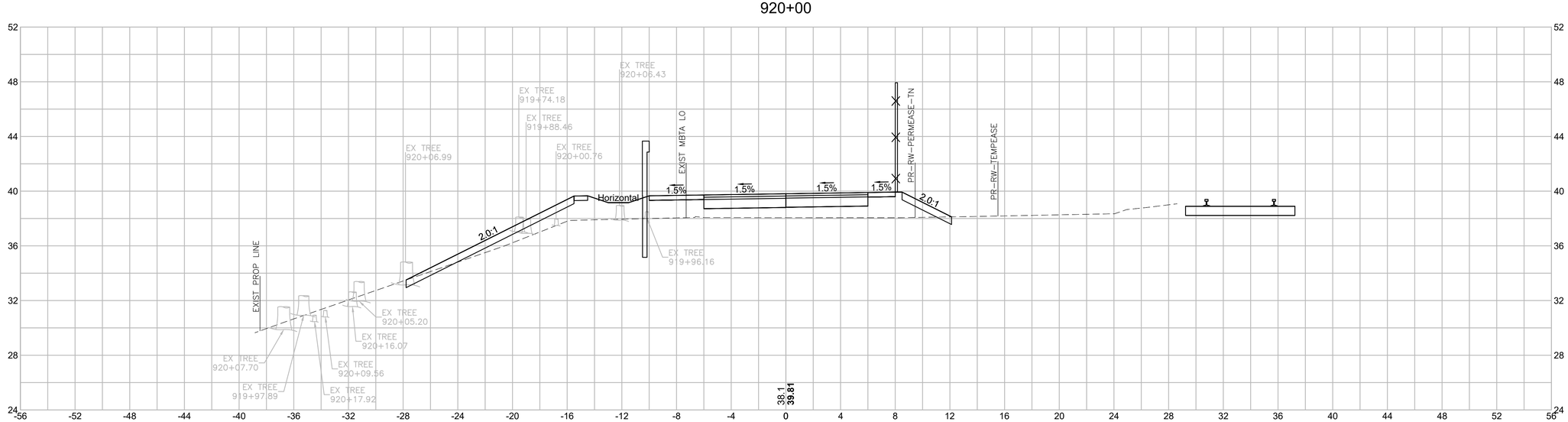
CROSS SECTIONS

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

609204_HD\XSECT-REV).DWG Plotted on Sep-26 12:16 PM

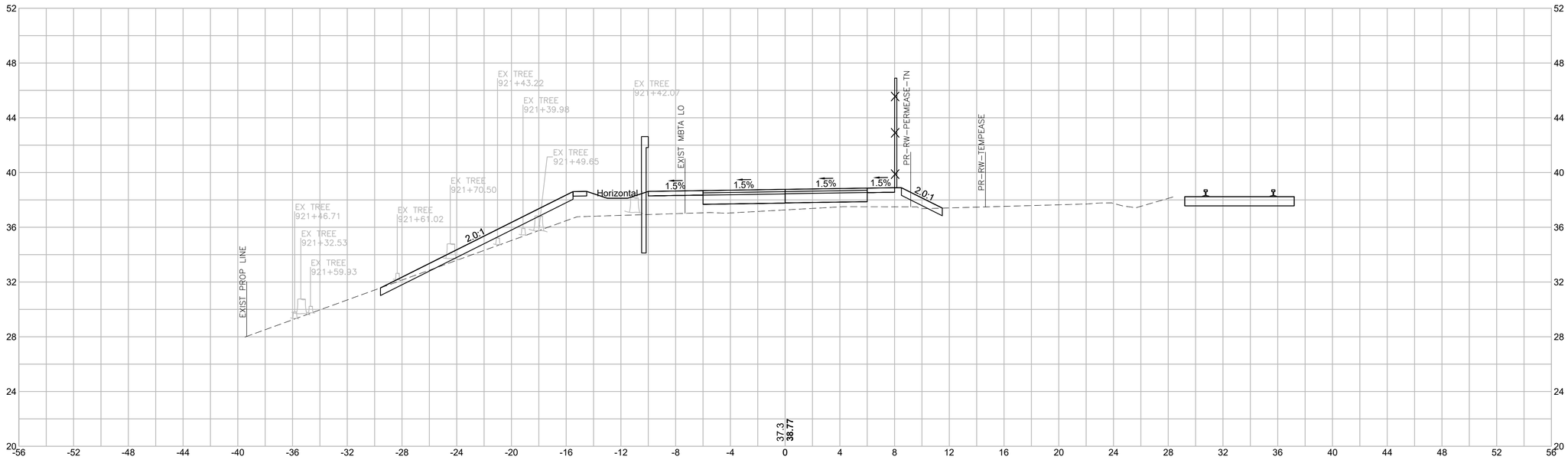
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	176	221
PROJECT FILE NO.	609204		

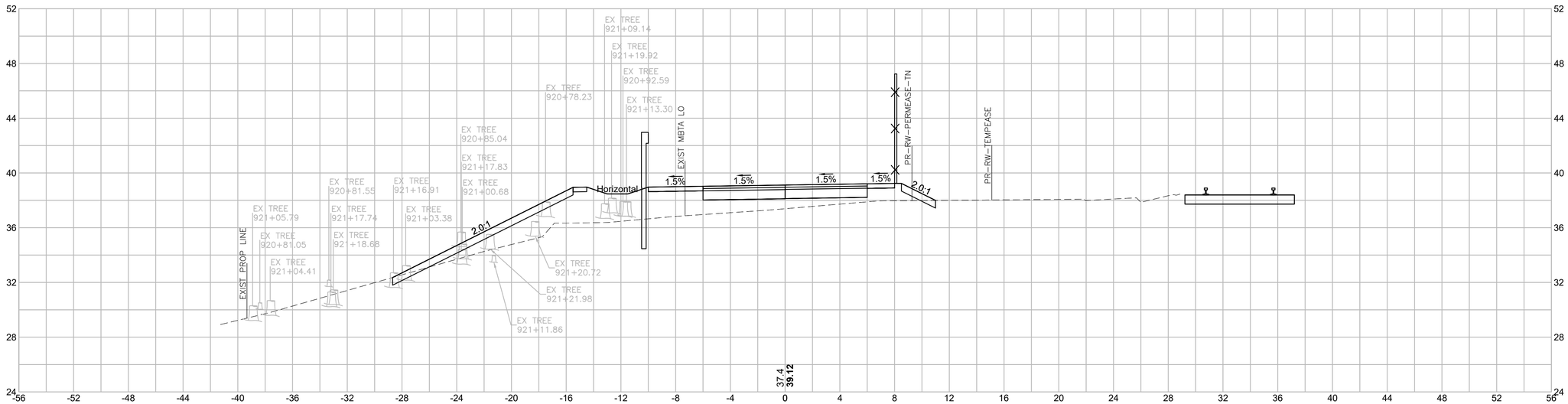
CROSS SECTIONS

921+50



EXCAVATION: 2
EMBANKMENT:29

921+00



EXCAVATION: 2
EMBANKMENT:40

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

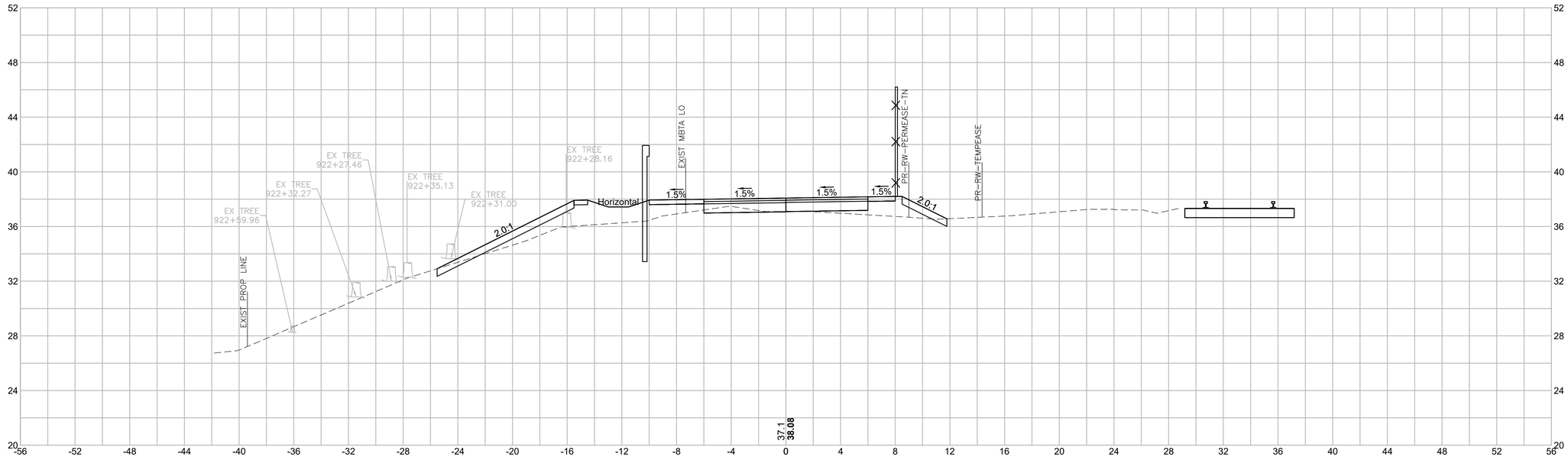
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609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:16 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	177	221
PROJECT FILE NO.	609204		

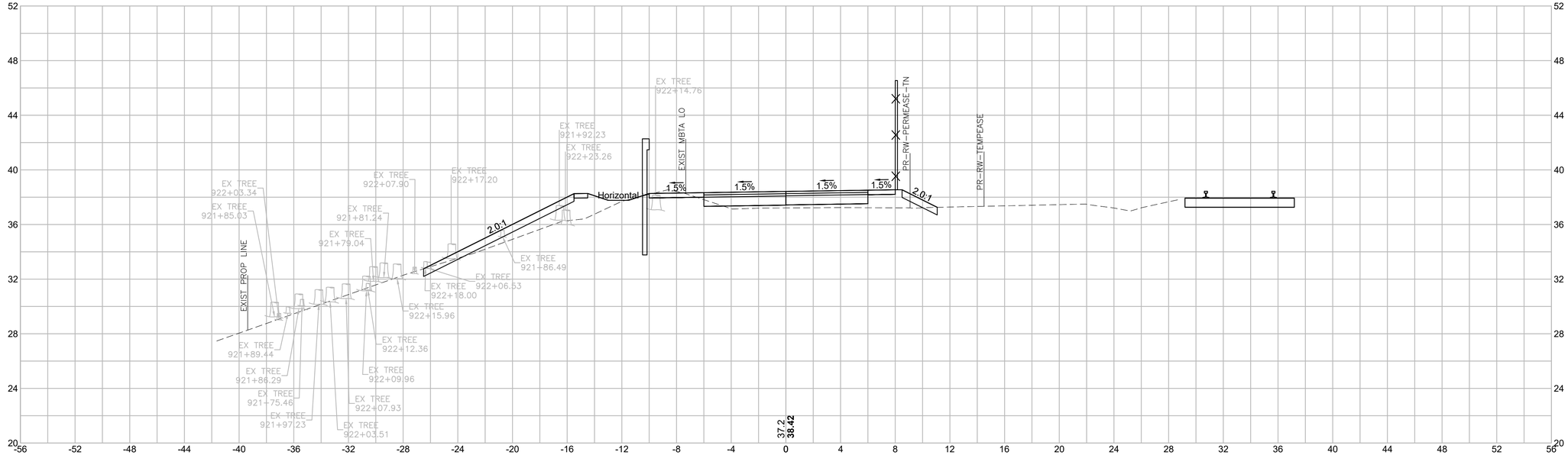
CROSS SECTIONS

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 9/2/2026 12:16 PM

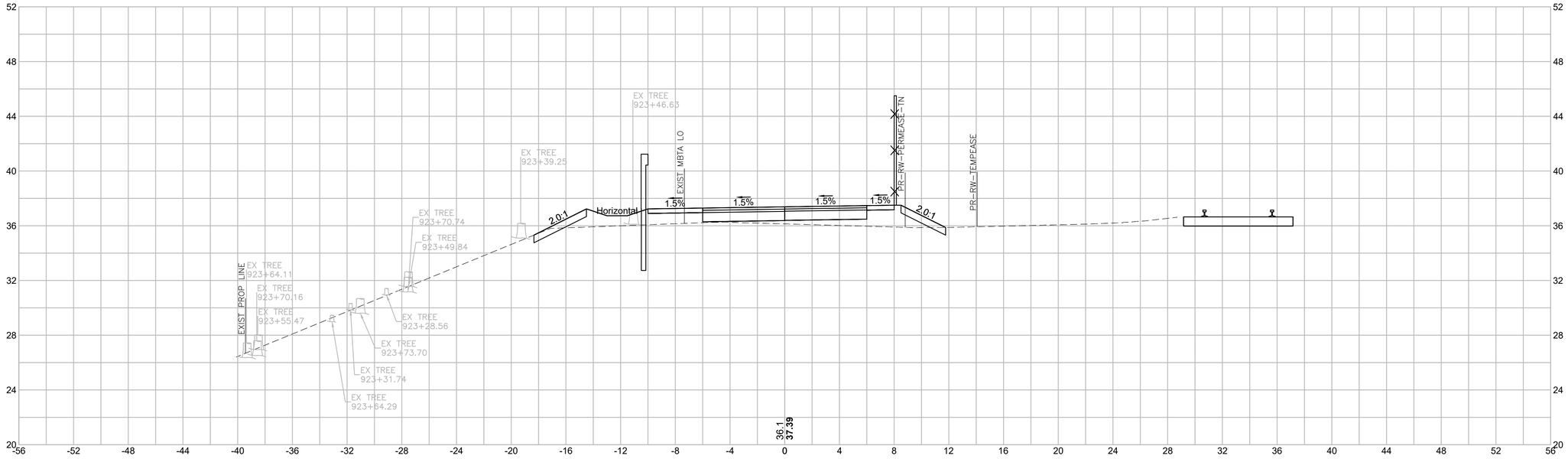
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

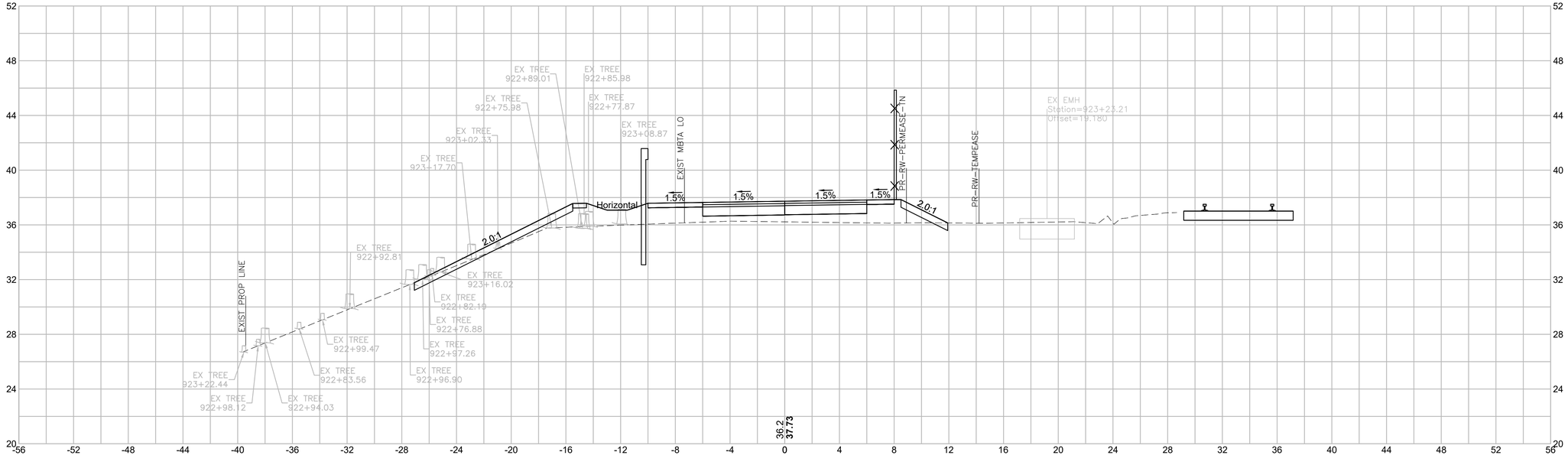
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	178	221
PROJECT FILE NO.	609204		

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 9/2/2026 12:16 PM

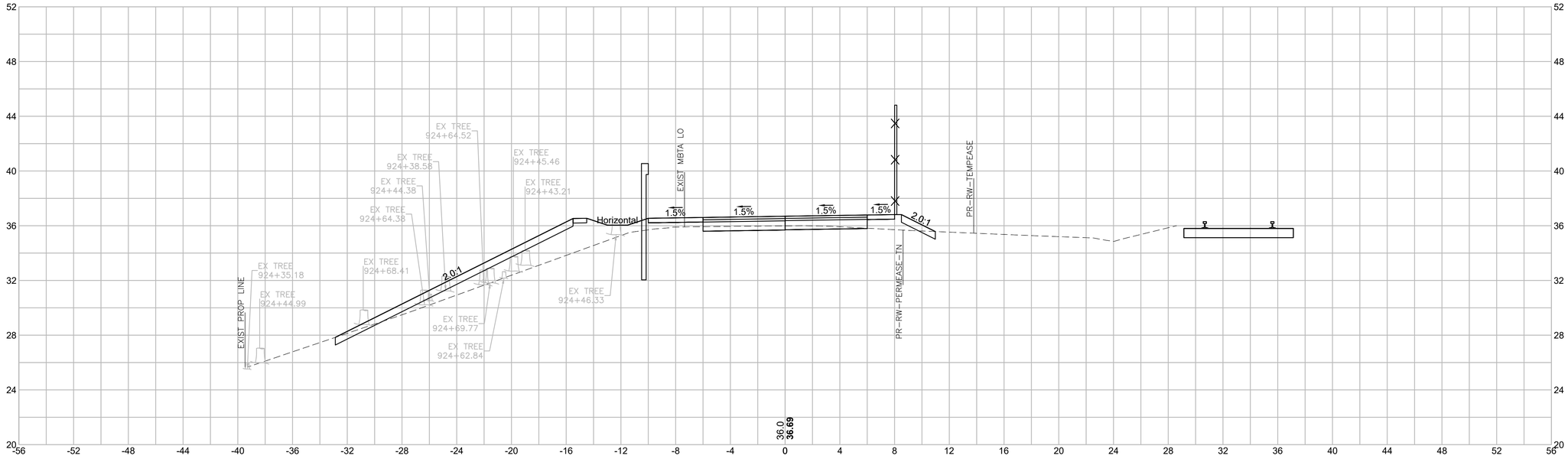
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:16 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	179	221
PROJECT FILE NO.	609204		

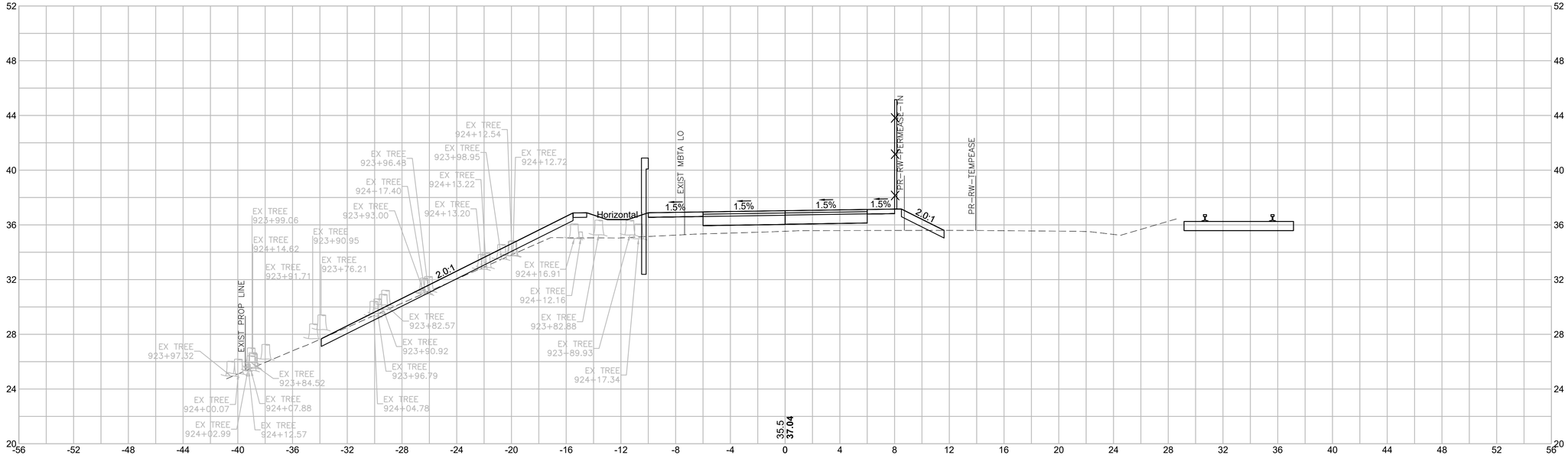
CROSS SECTIONS

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 9/2/2026 12:17 PM

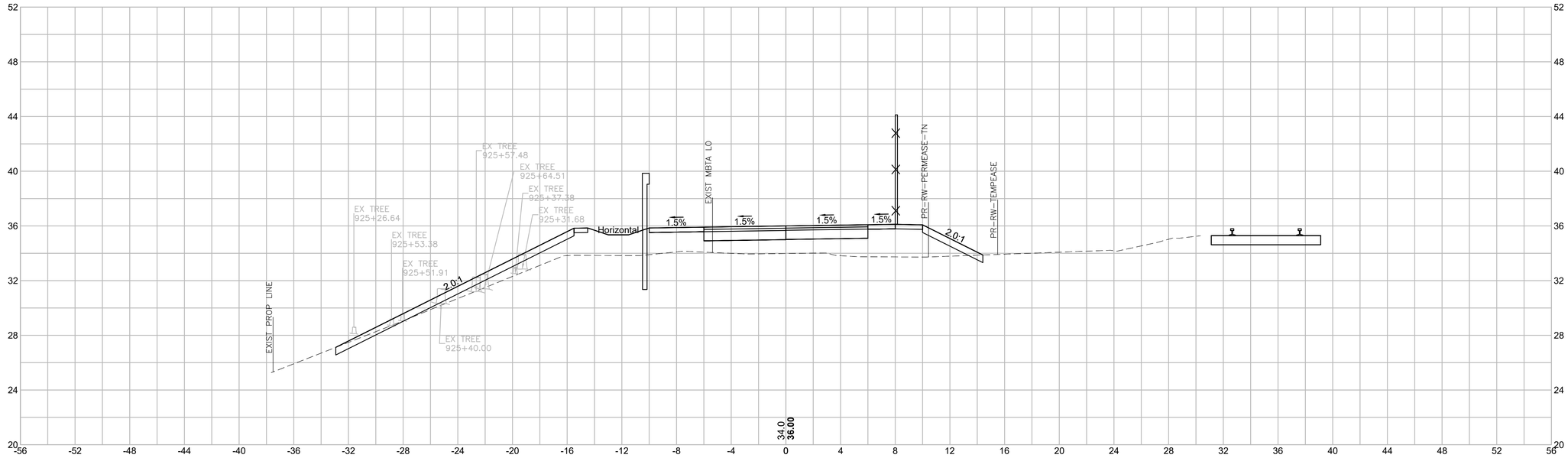
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:17 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	180	221
PROJECT FILE NO.	609204		

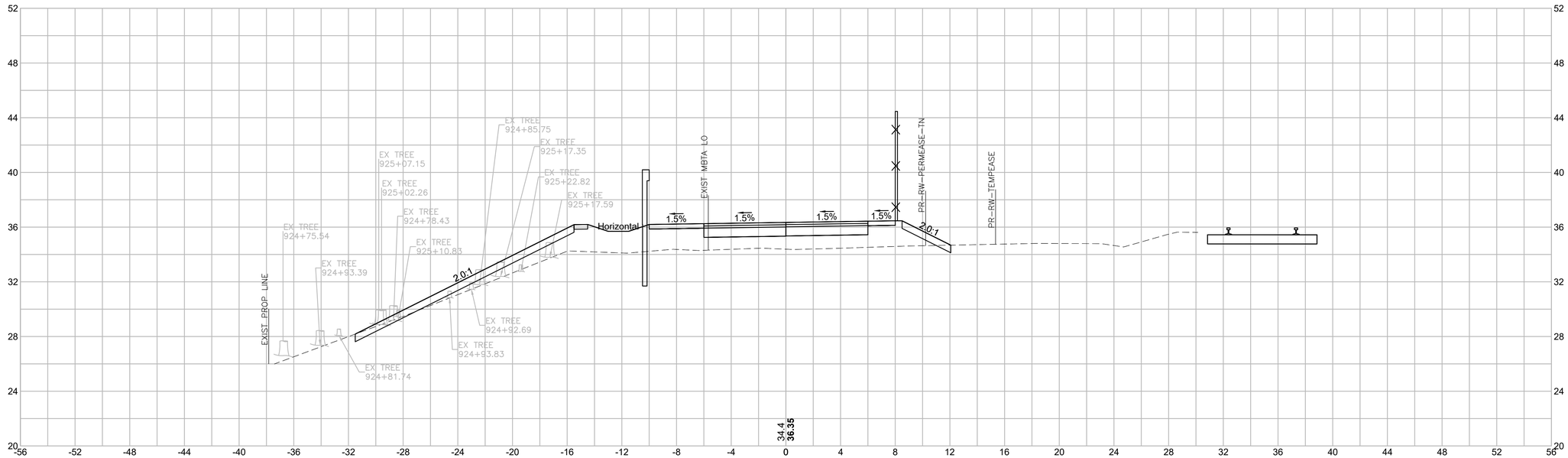
CROSS SECTIONS

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 9/2/2026 12:17 PM

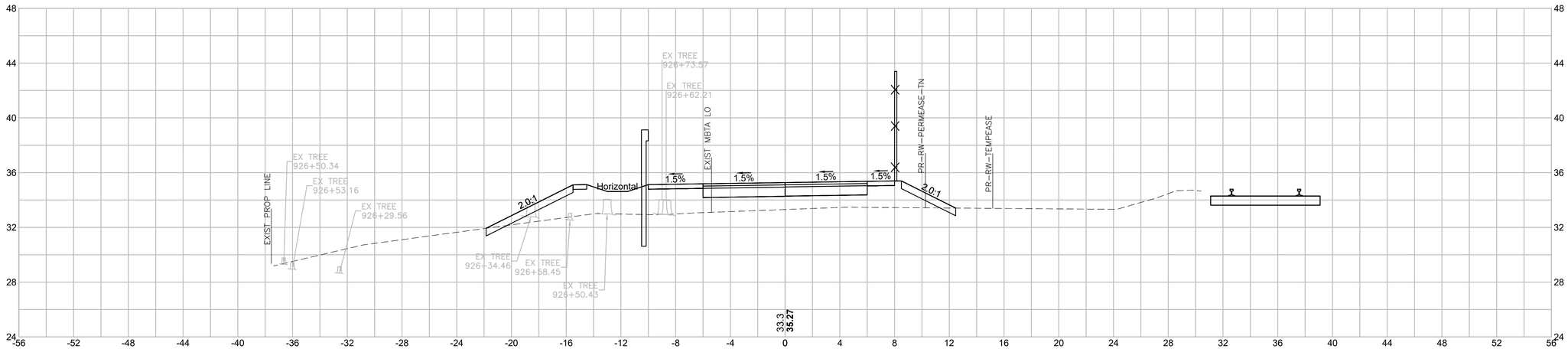
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	181	221
PROJECT FILE NO.	609204		

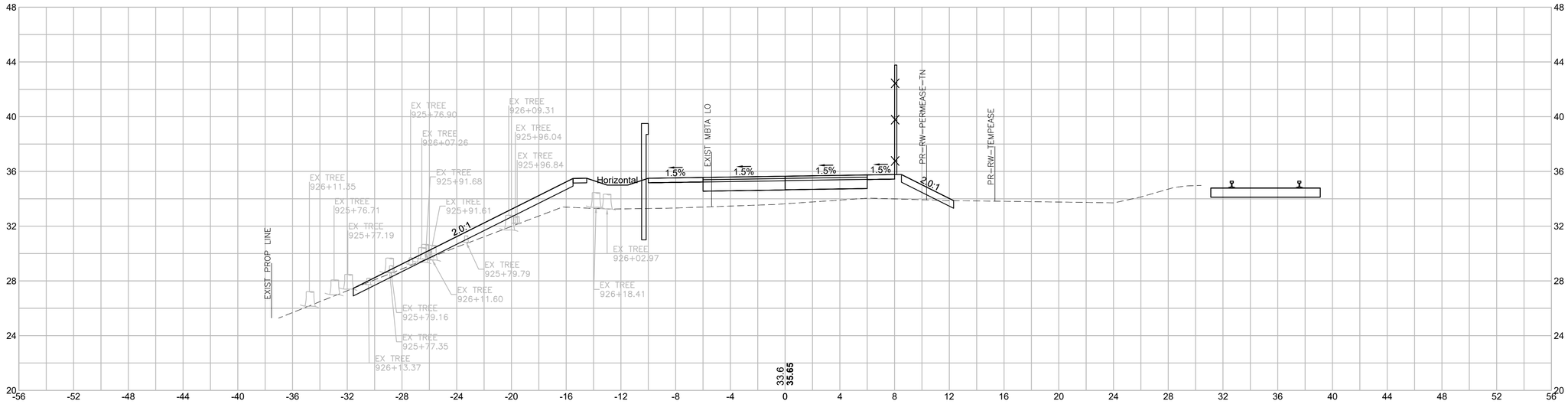
CROSS SECTIONS

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 9/2/2026 12:17 PM

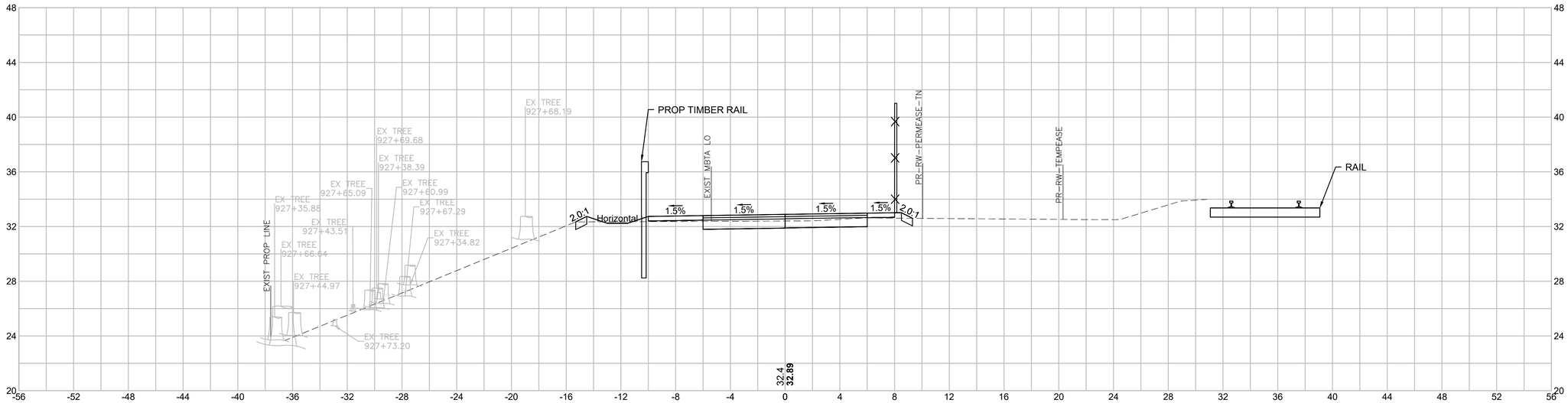
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

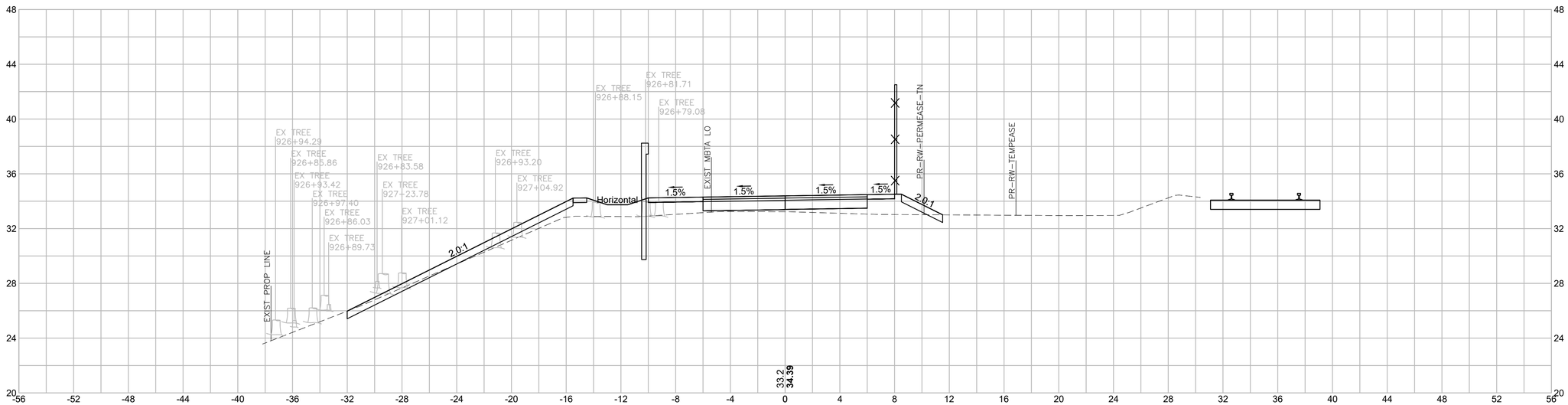
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	182	221
PROJECT FILE NO.	609204		

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 9/2/2026 12:17 PM

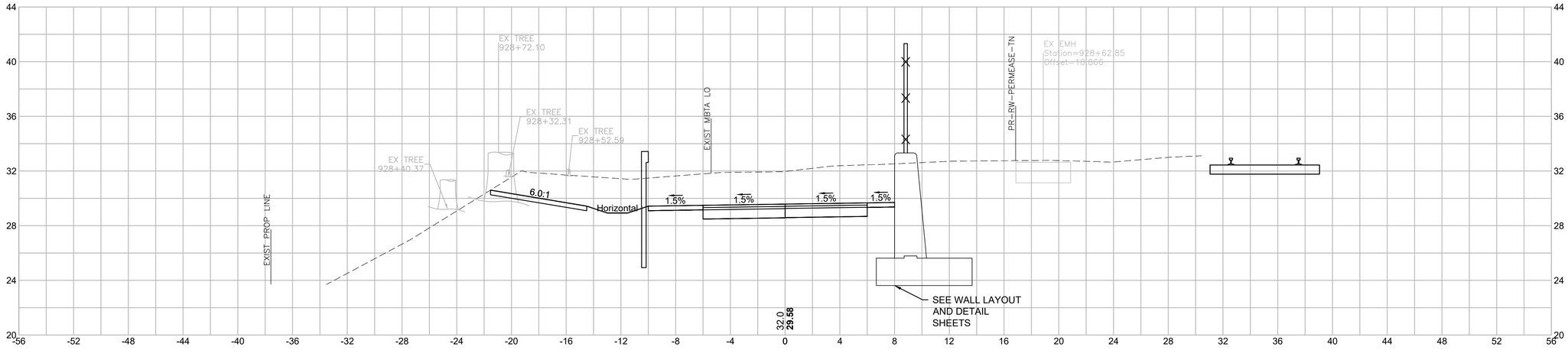
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

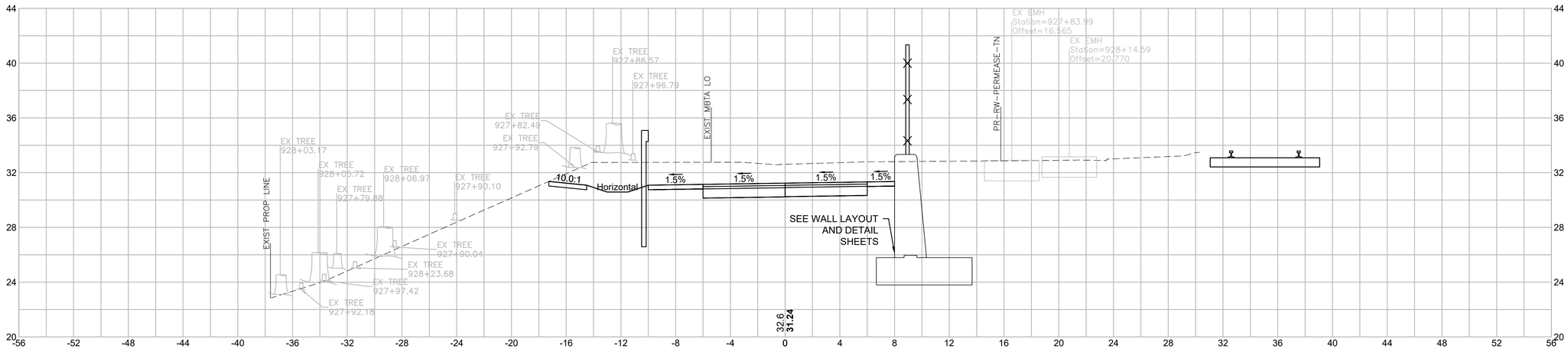
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	183	221
PROJECT FILE NO.	609204		

CROSS SECTIONS

928+50



928+00



EXCAVATION: 94
EMBANKMENT: 0

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 9/2/2026 12:18 PM

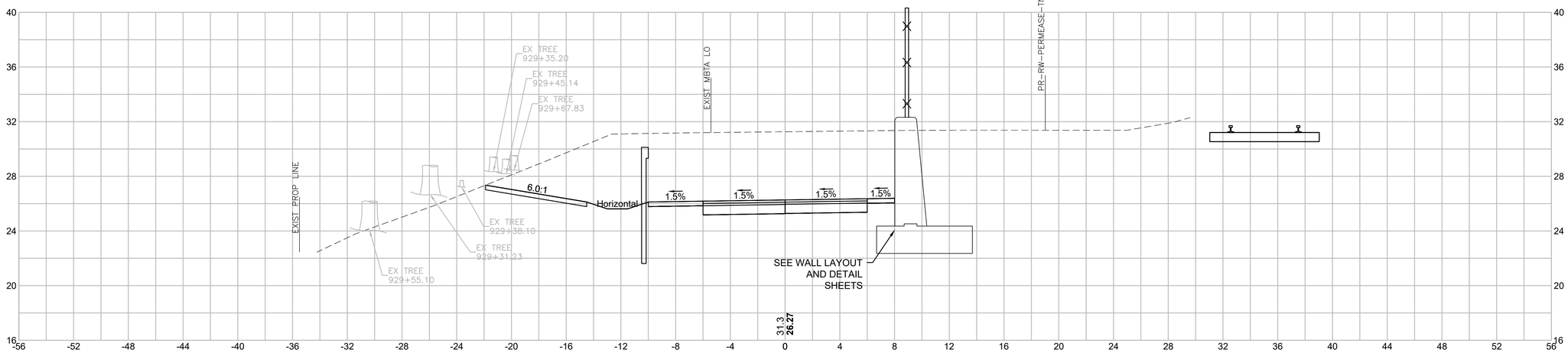
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	184	221
PROJECT FILE NO.	609204		

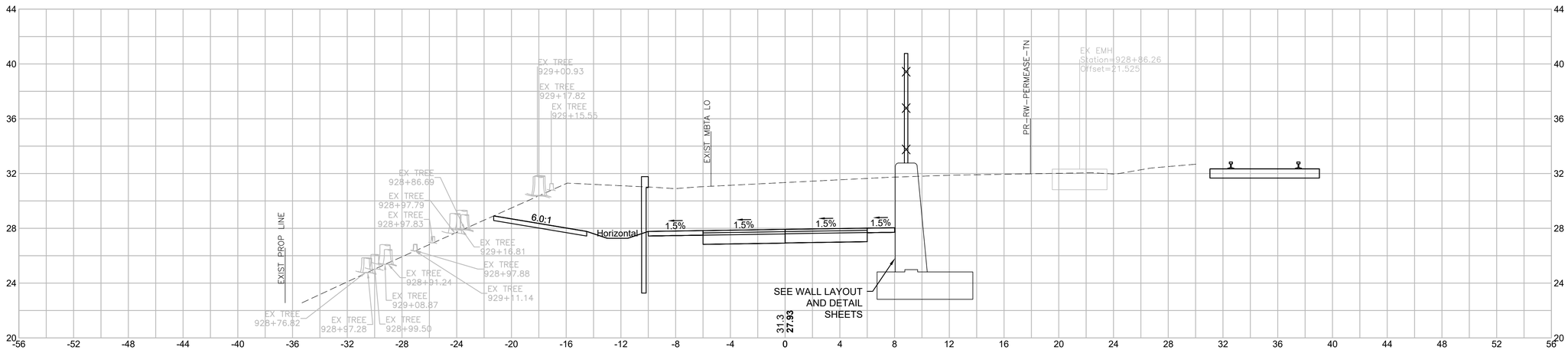
CROSS SECTIONS

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 9/2/2026 12:18 PM

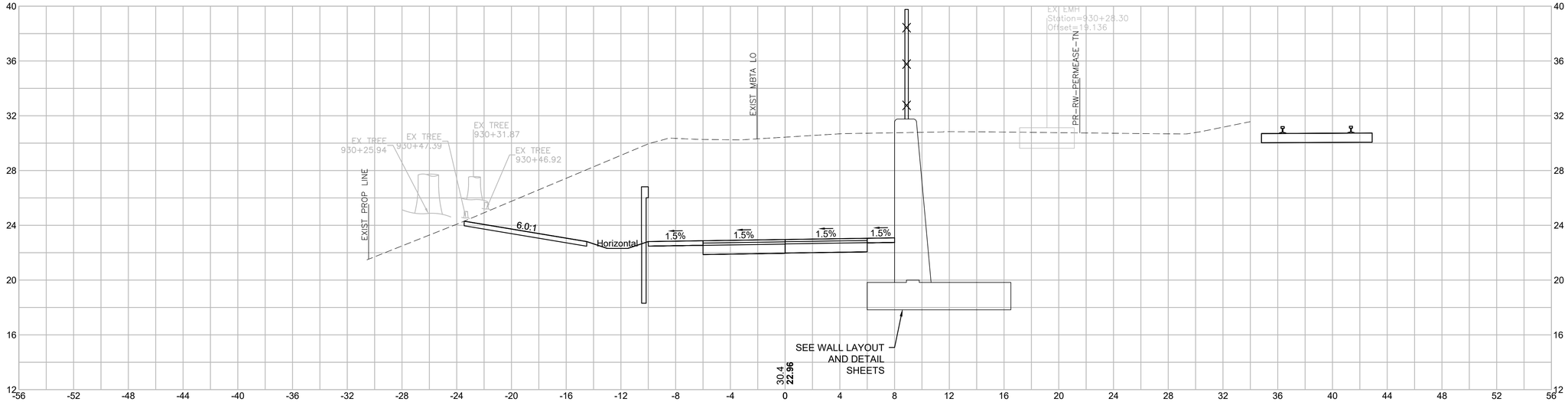
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:18 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	185	221
PROJECT FILE NO.	609204		

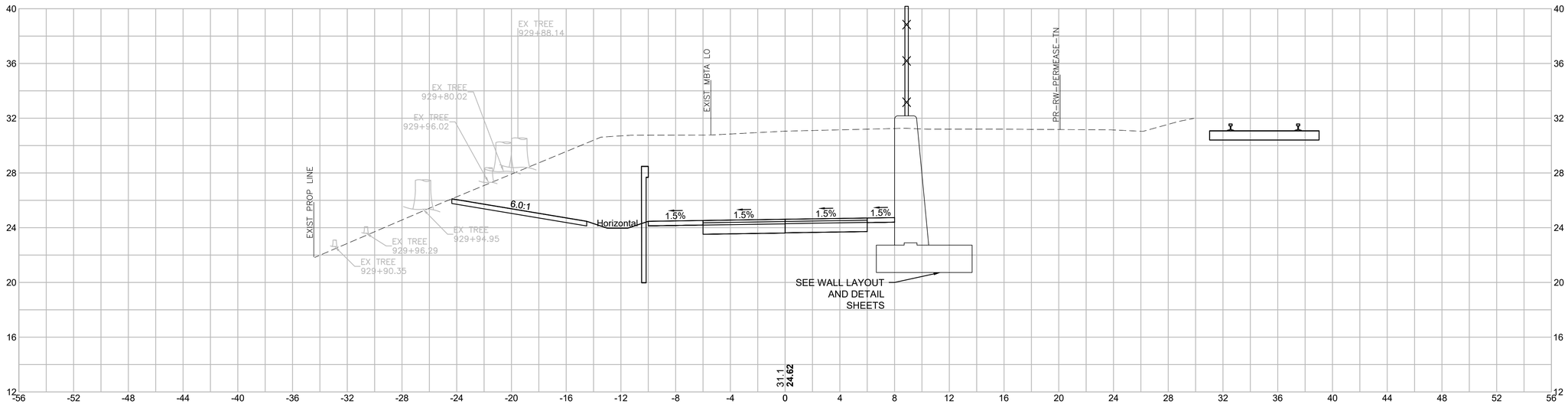
CROSS SECTIONS

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 9/2/2026 12:18 PM

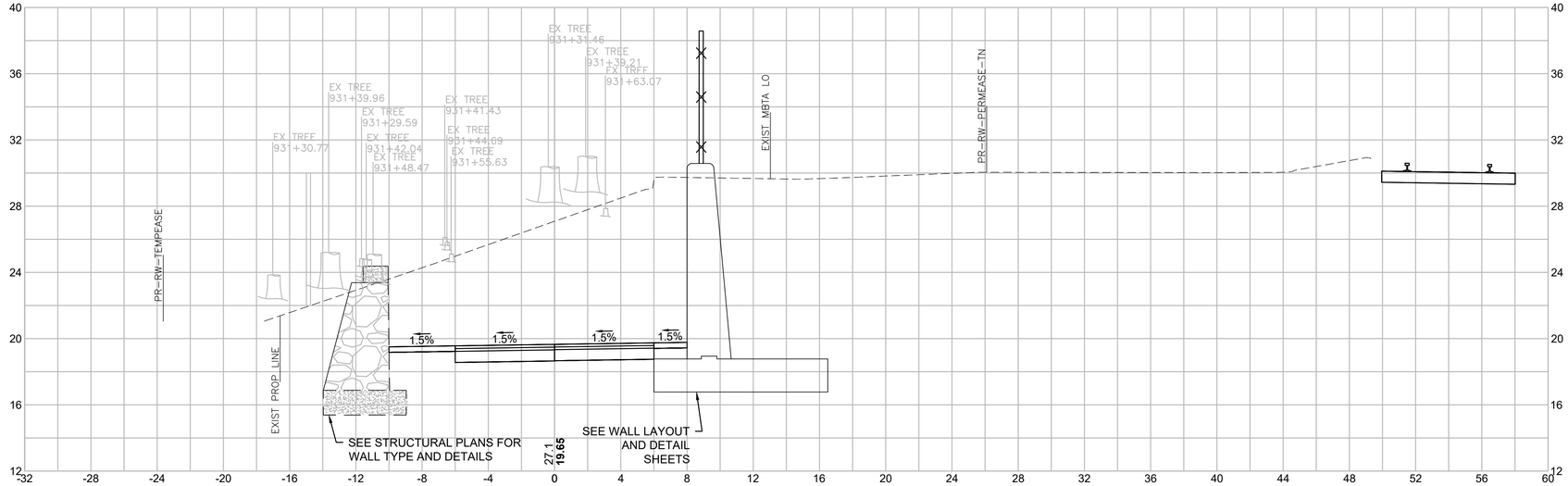
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:18 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	186	221
PROJECT FILE NO.	609204		

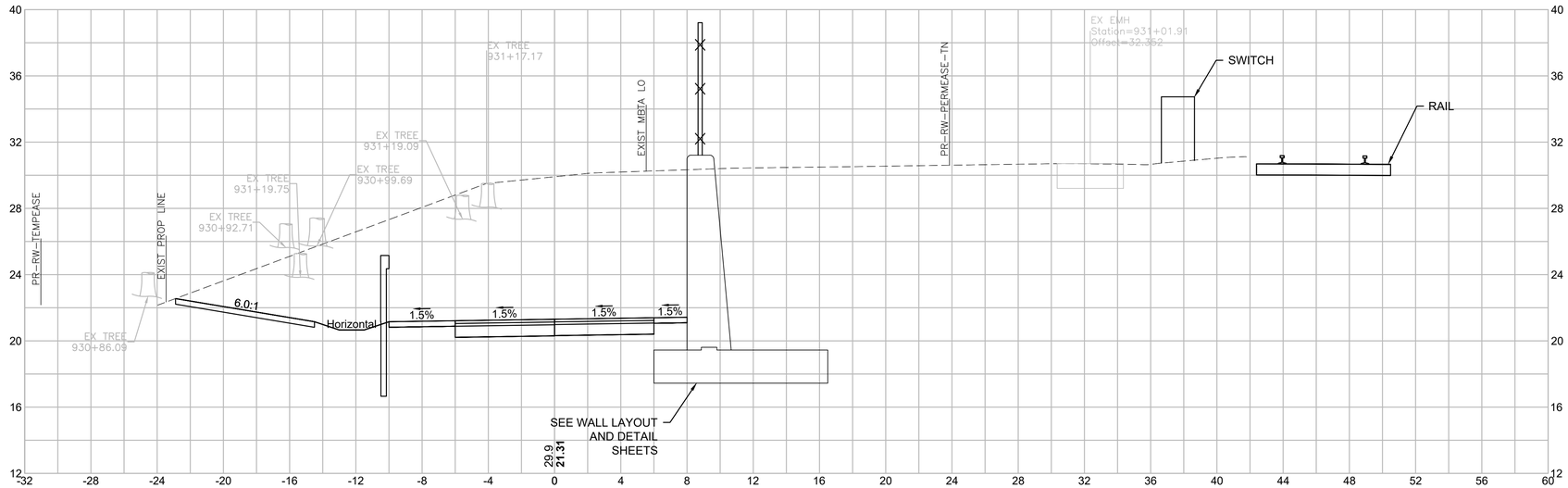
CROSS SECTIONS

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

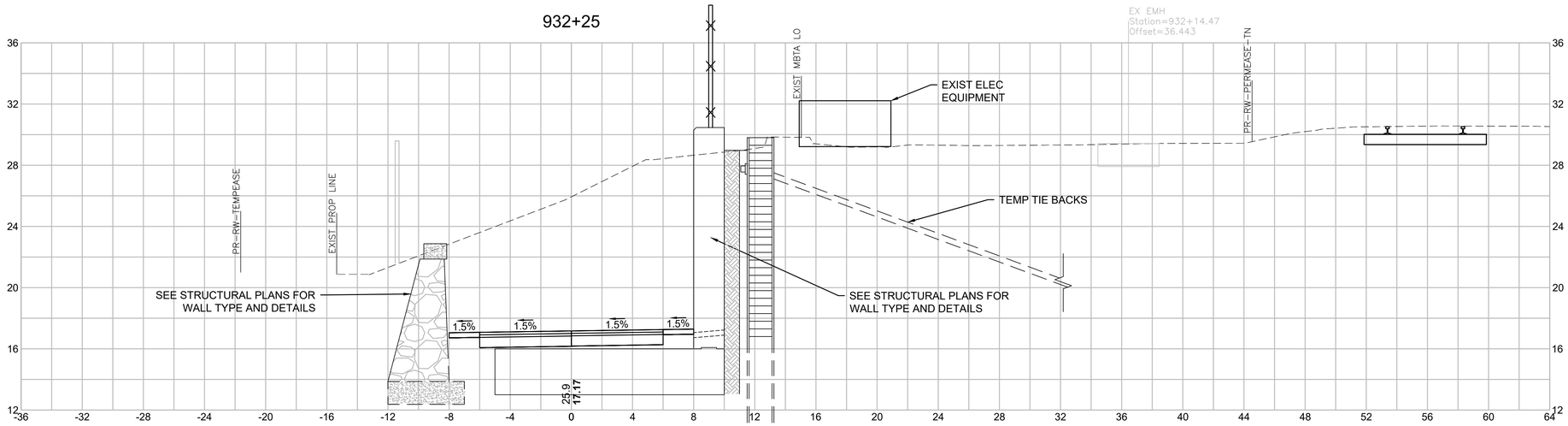
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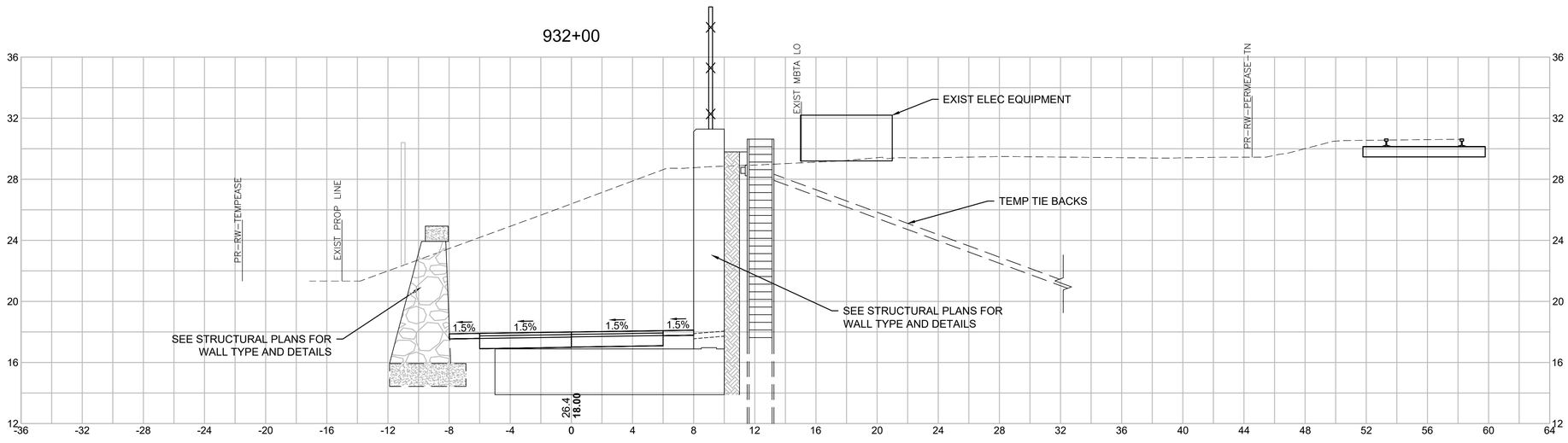
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	187	221
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

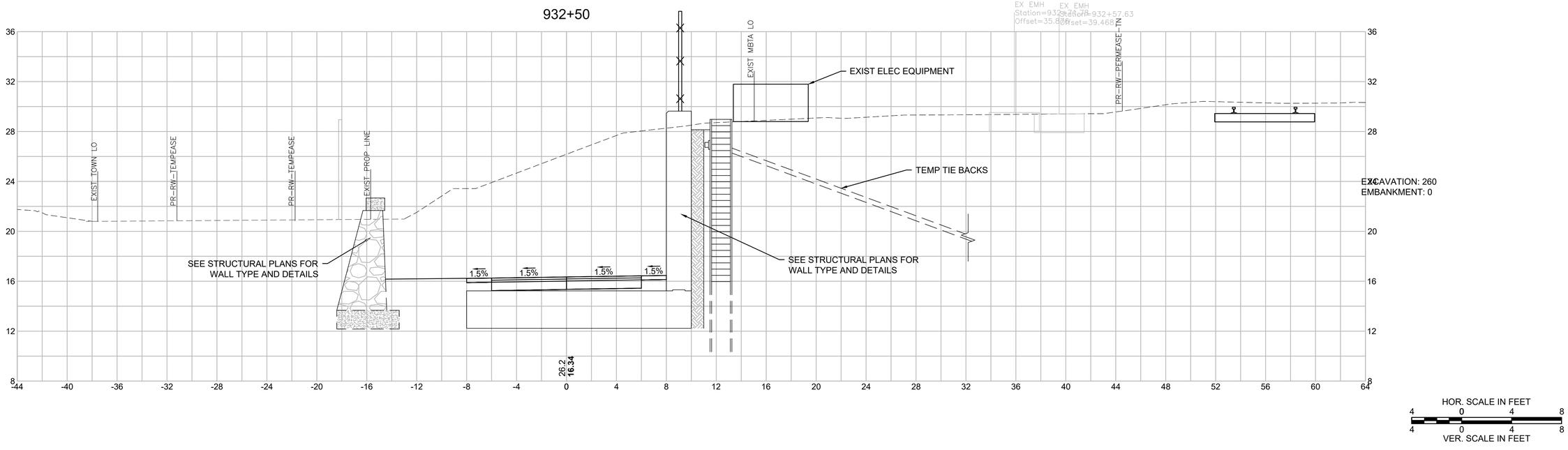
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609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:19 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	188	221
PROJECT FILE NO.	609204		

CROSS SECTIONS



Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 9/2/2026 12:19 PM

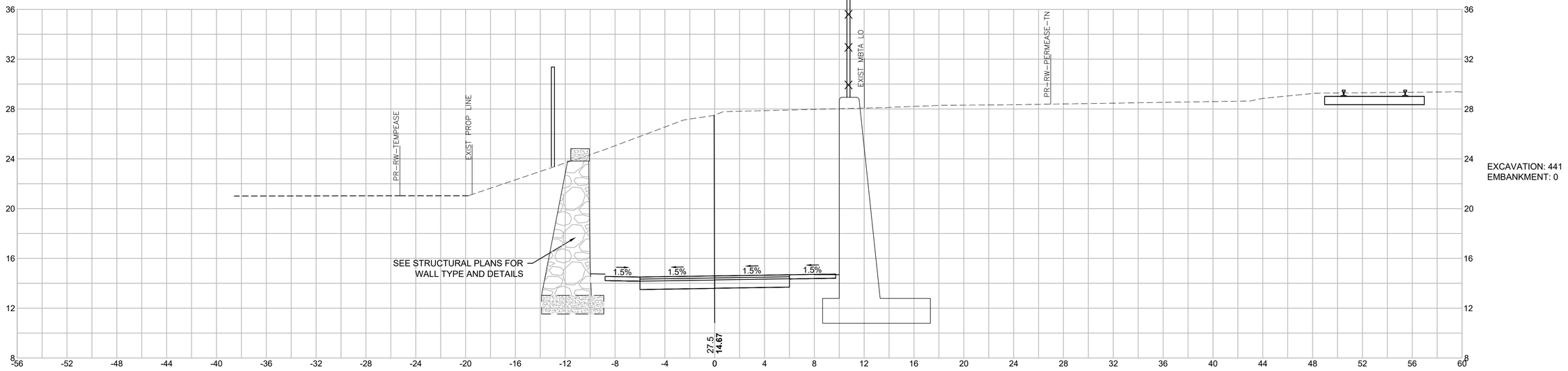
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:19 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	189	221
PROJECT FILE NO.	609204		

CROSS SECTIONS

934+00



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

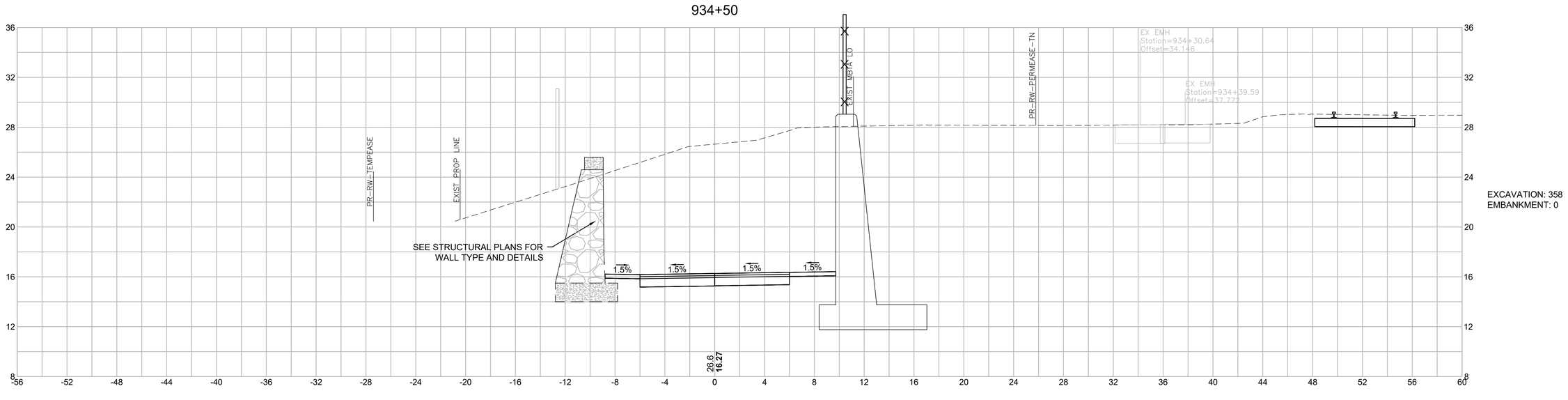
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609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:19 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	190	221
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

609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:19 PM

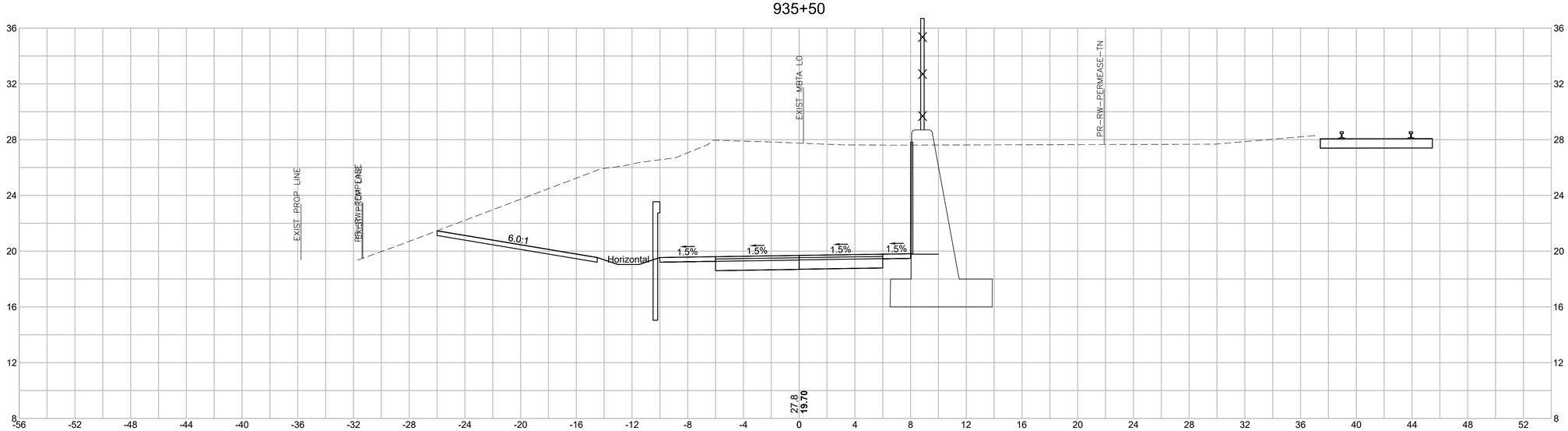
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	191	221
	PROJECT FILE NO. 609204		

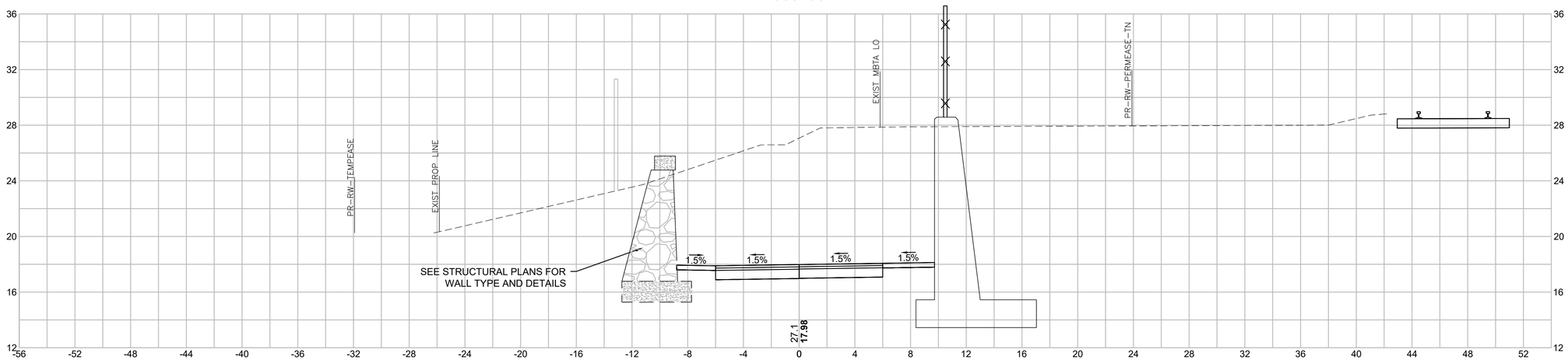
CROSS SECTIONS

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 9/2/2026 12:20 PM

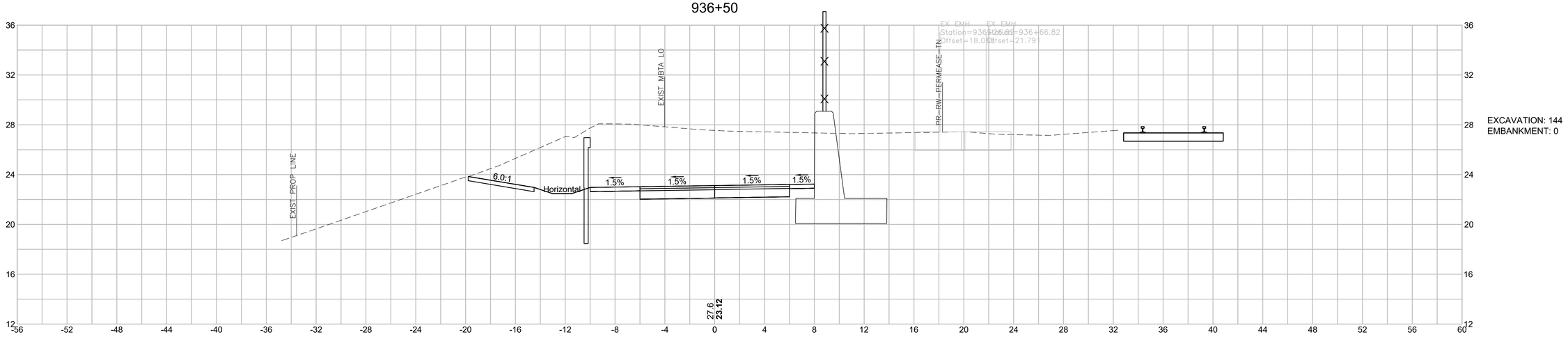
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:20 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	192	221
PROJECT FILE NO.	609204		

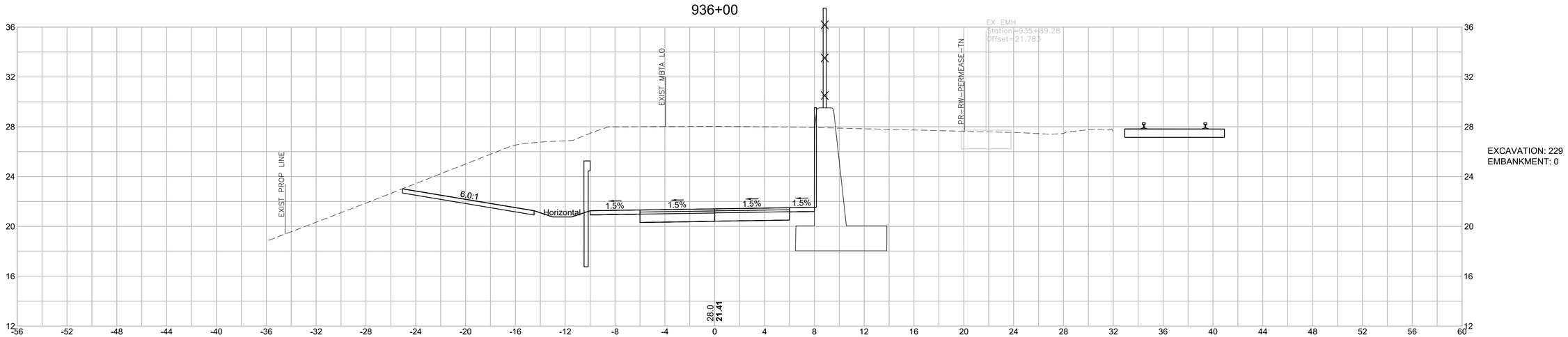
CROSS SECTIONS

936+50



EXCAVATION: 144
EMBANKMENT: 0

936+00



EXCAVATION: 229
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 9/2/2026 12:20 PM

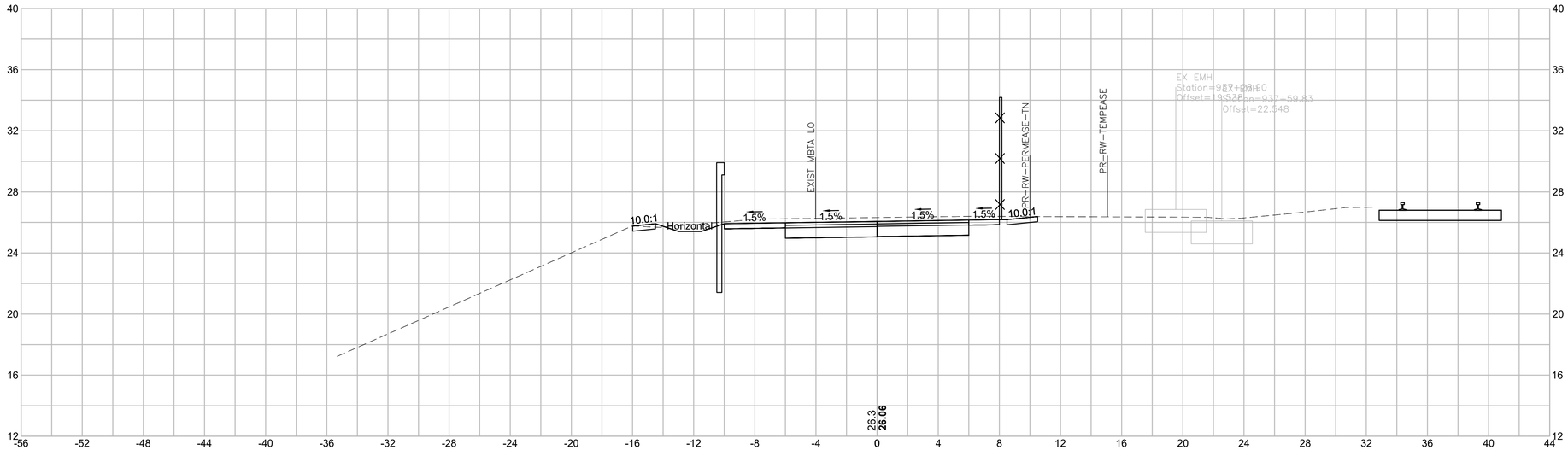
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	193	221
PROJECT FILE NO.	609204		

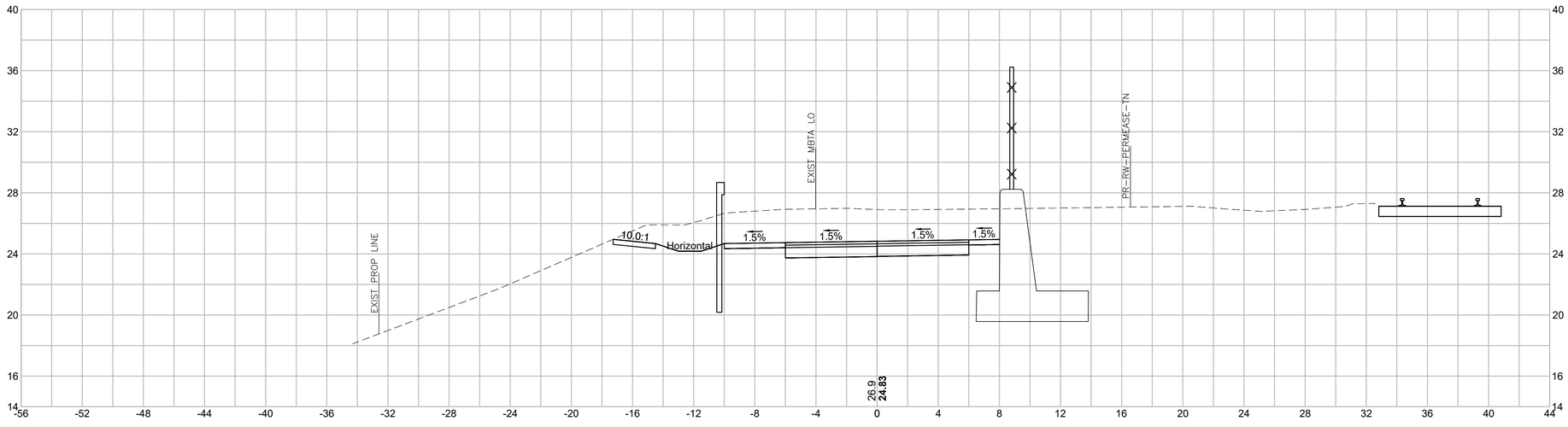
CROSS SECTIONS

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

609204_HD\XSECT-REV).DWG Plotted on Sep-26 12:20 PM

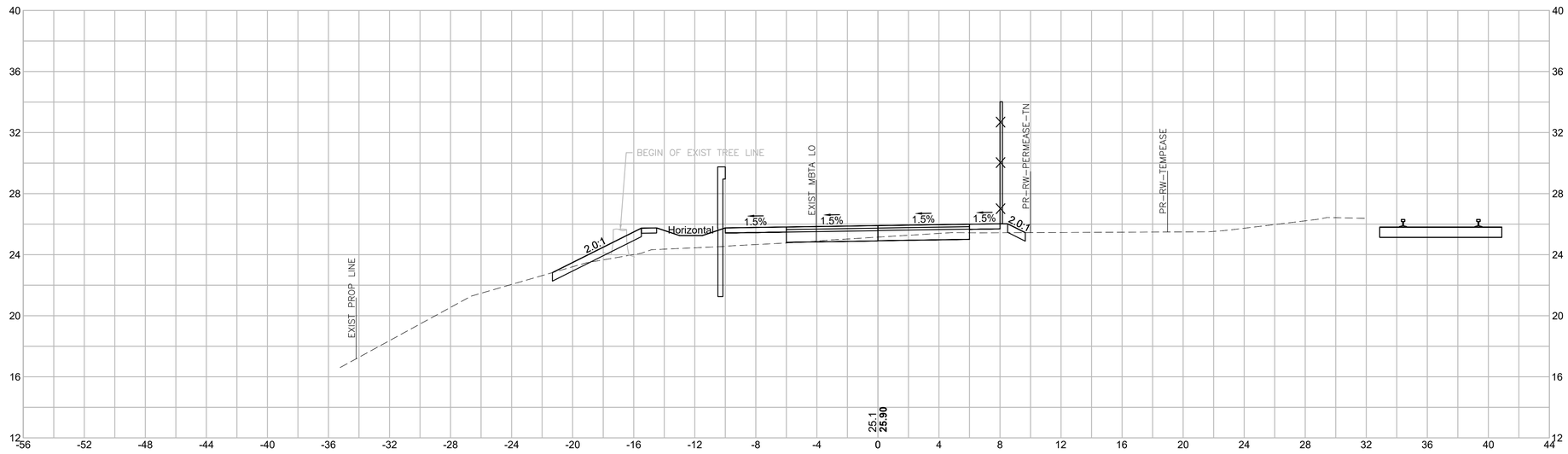
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

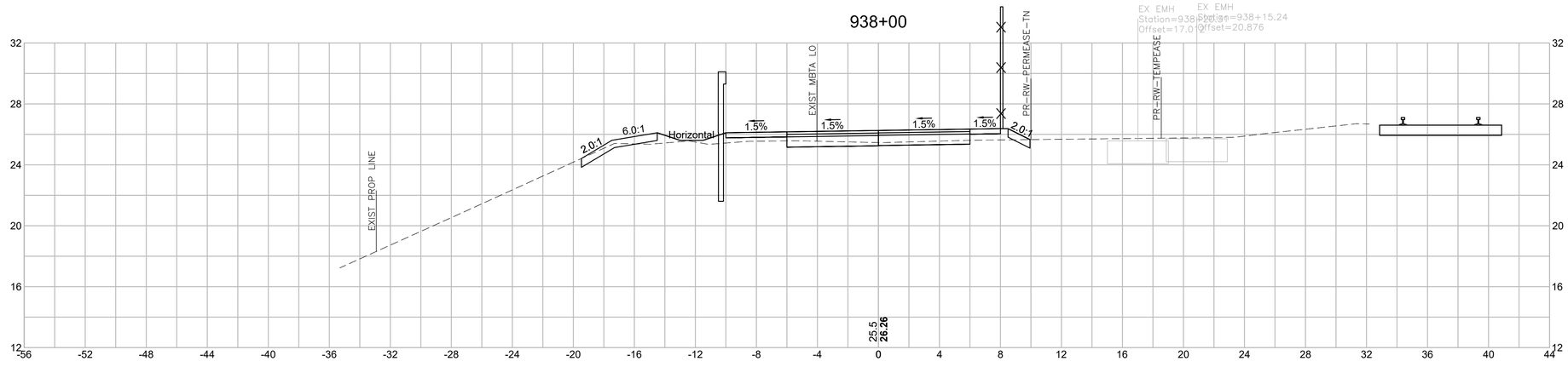
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	194	221
PROJECT FILE NO.	609204		

CROSS SECTIONS

938+50



938+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 9/2/2026 12:20 PM

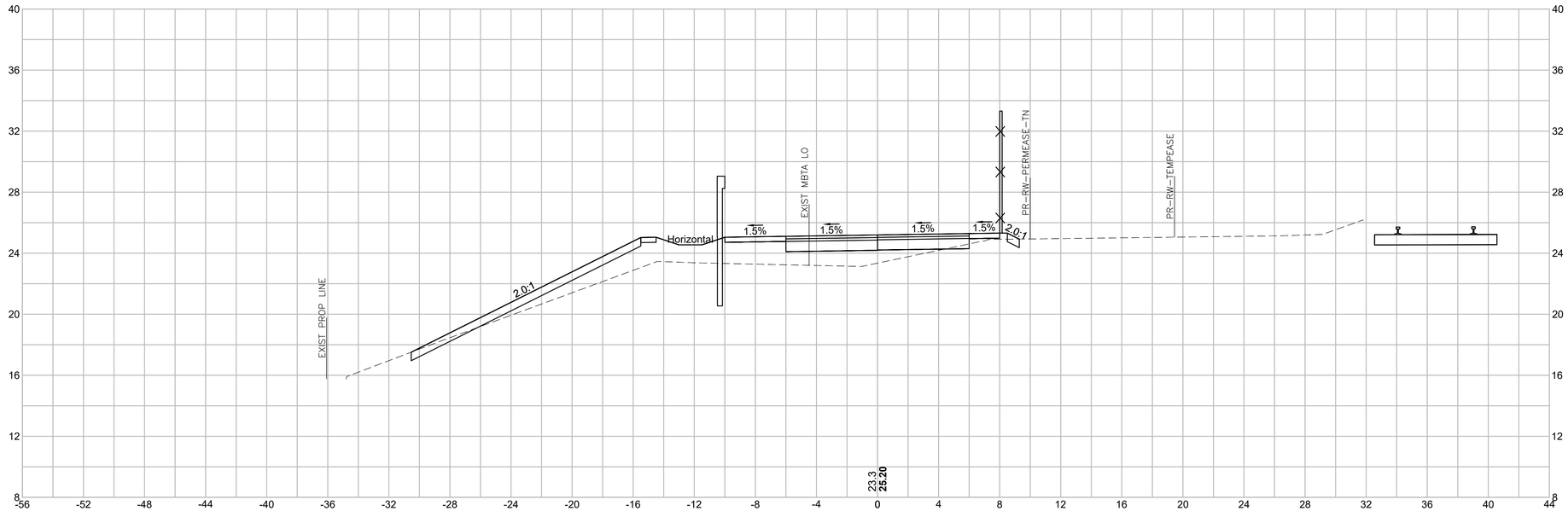
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

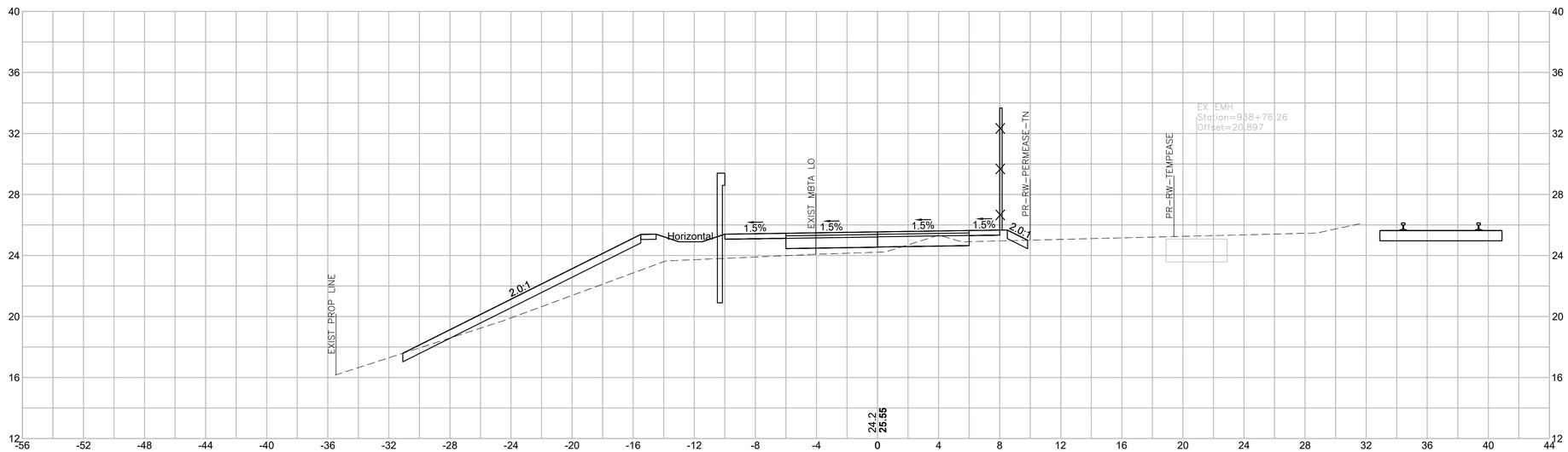
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	195	221
PROJECT FILE NO.	609204		

CROSS SECTIONS

939+50



939+00



EXCAVATION: 3
EMBANKMENT:28

EXCAVATION: 4
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 9/2/2026 12:21 PM

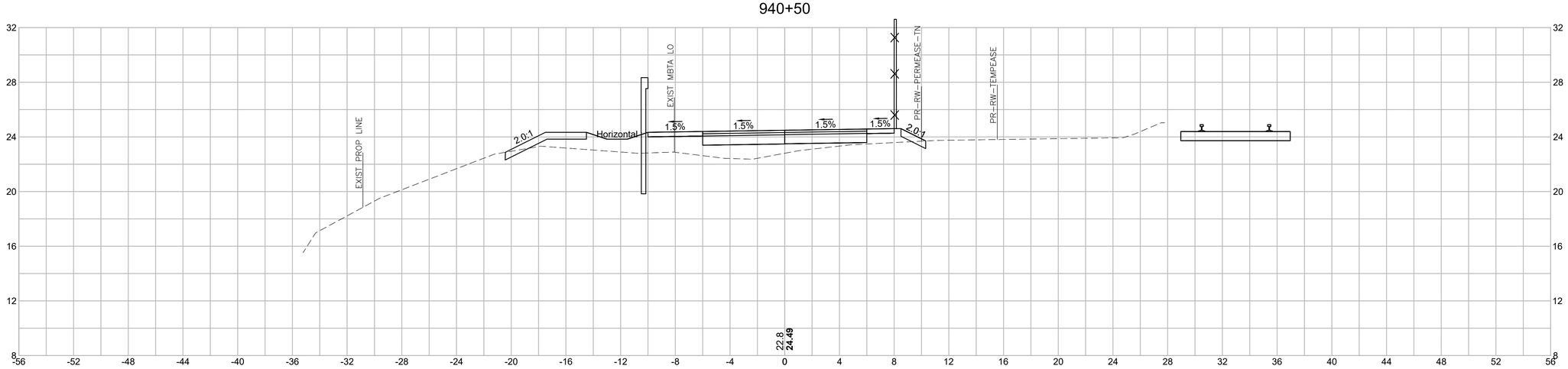
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

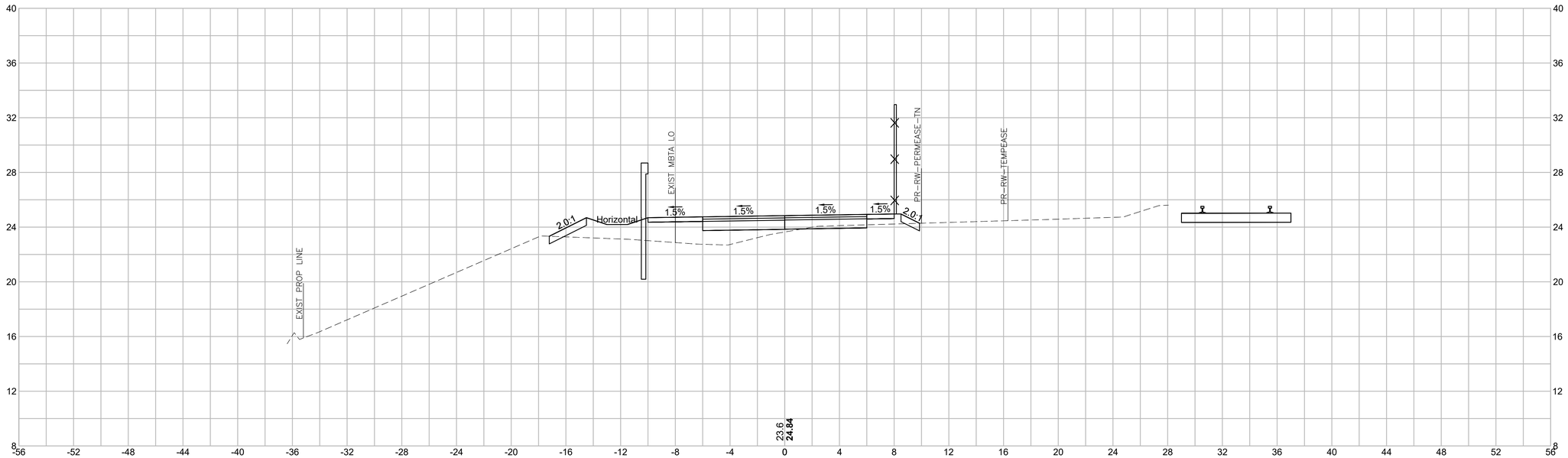
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	196	221
	PROJECT FILE NO. 609204		

CROSS SECTIONS

940+50



940+00



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

609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:21 PM

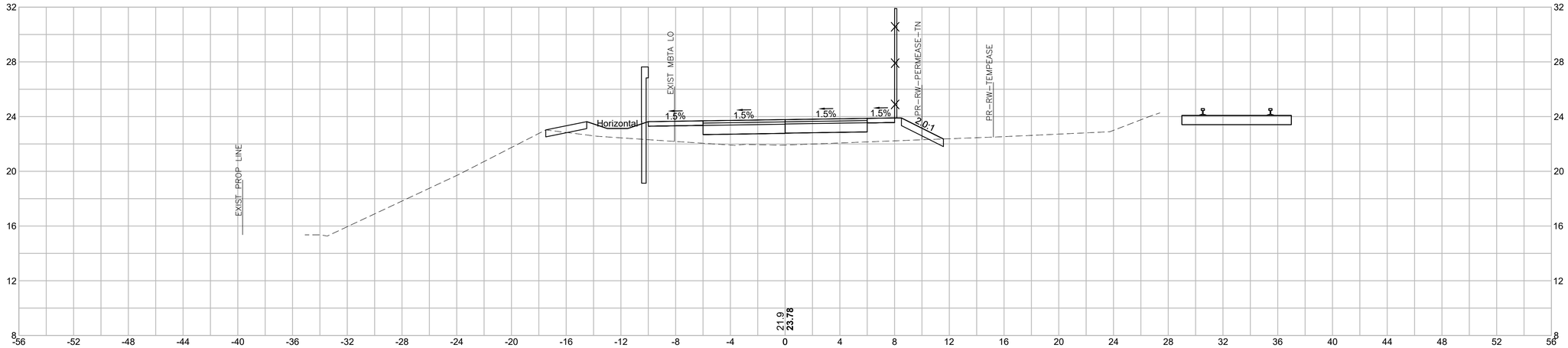
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BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	197	221
PROJECT FILE NO.	609204		

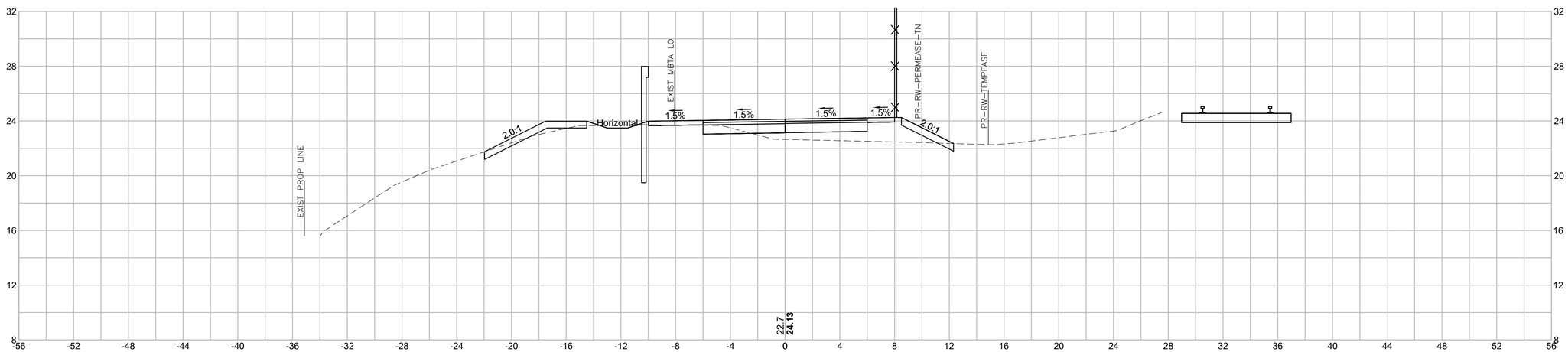
CROSS SECTIONS

941+50



EXCAVATION: 2
EMBANKMENT:22

941+00



EXCAVATION: 4
EMBANKMENT:10

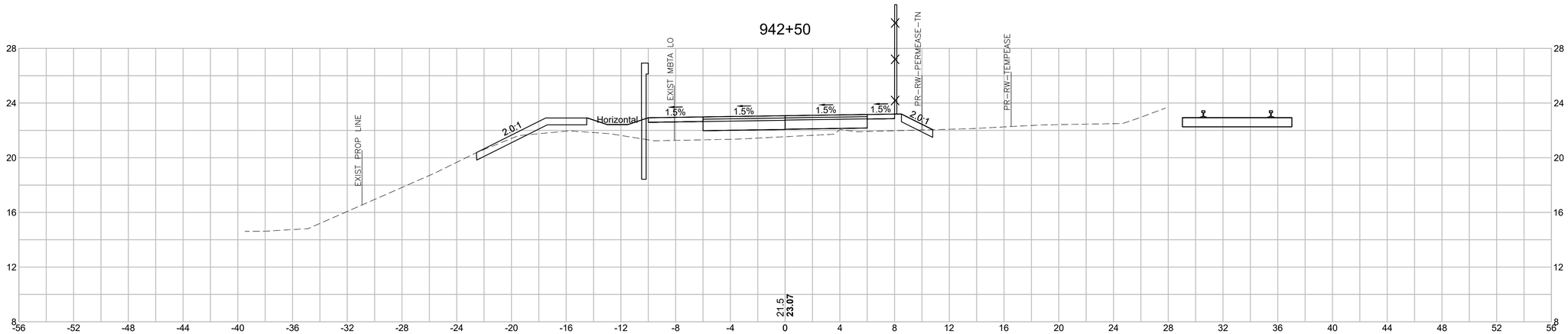
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 9/2/2026 12:21 PM
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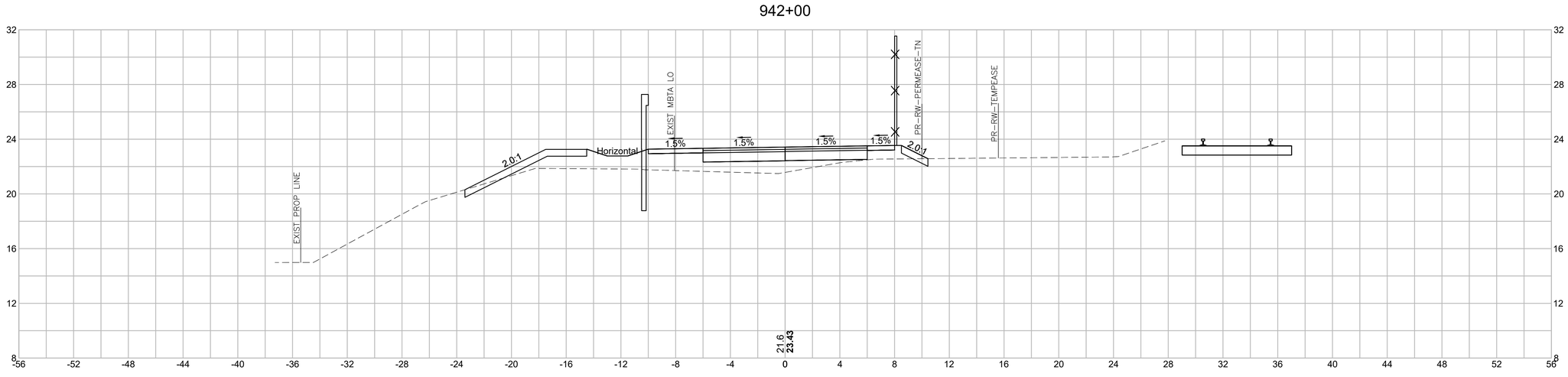
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	198	221
PROJECT FILE NO.	609204		

CROSS SECTIONS



EXCAVATION: 2
EMBANKMENT:19



EXCAVATION: 2
EMBANKMENT:21

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

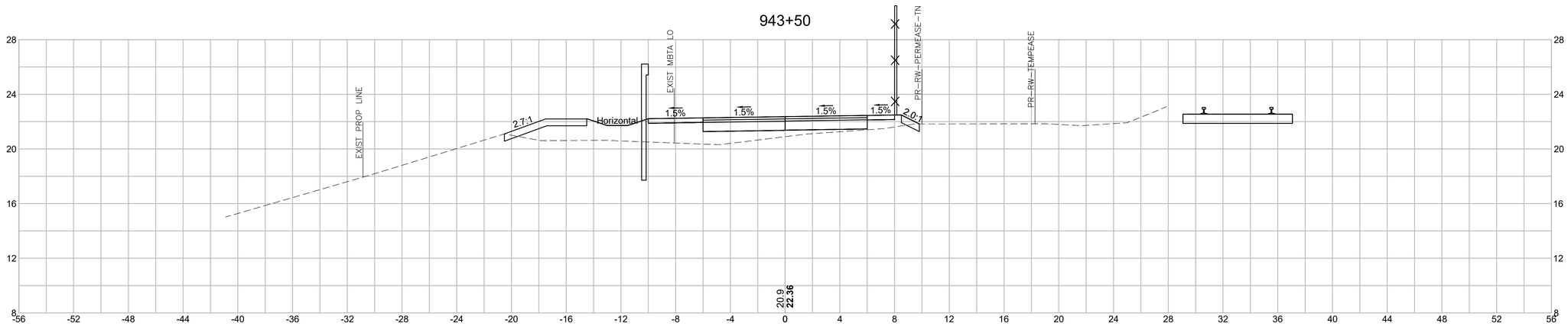
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 9/2/2026 12:21 PM

609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:21 PM

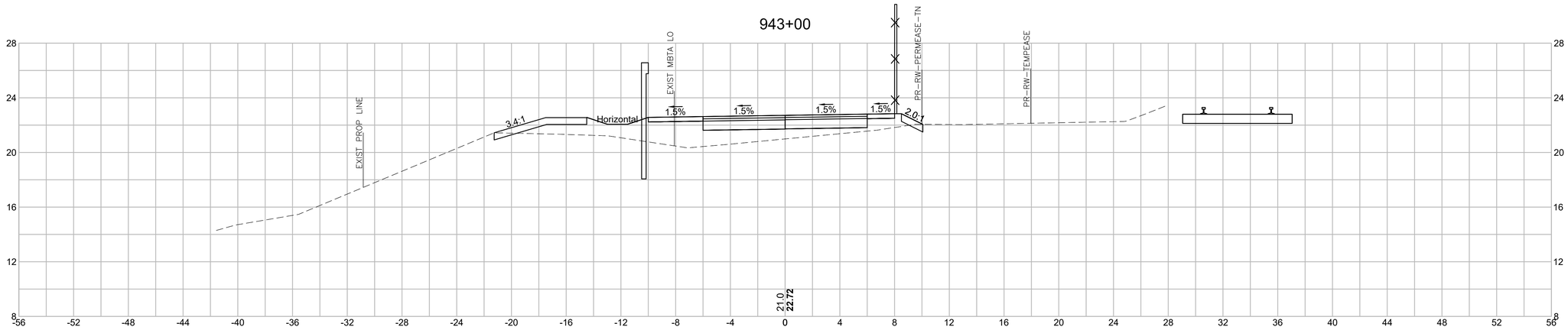
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	199	221
PROJECT FILE NO.	609204		

CROSS SECTIONS



EXCAVATION: 1
EMBANKMENT:22



EXCAVATION: 2
EMBANKMENT:24

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

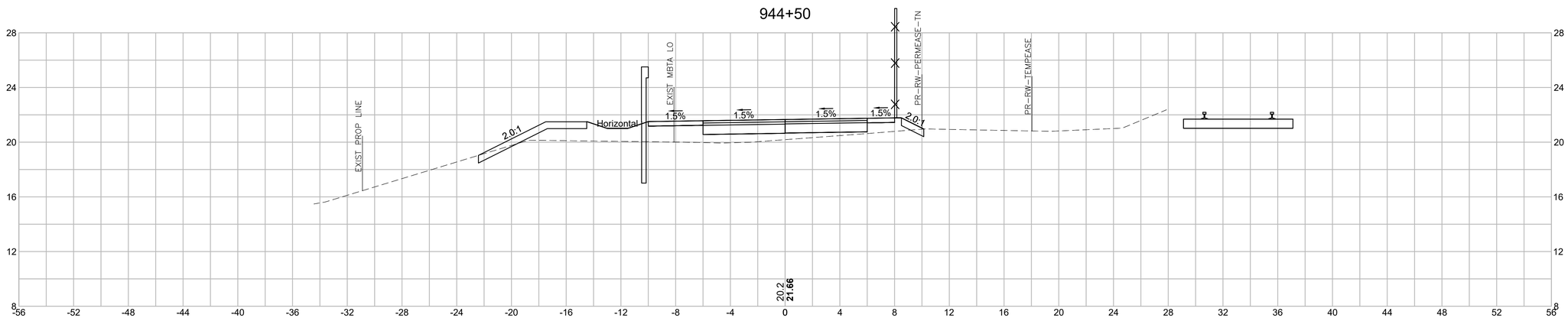
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 9/2/2026 12:22 PM

609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:22 PM

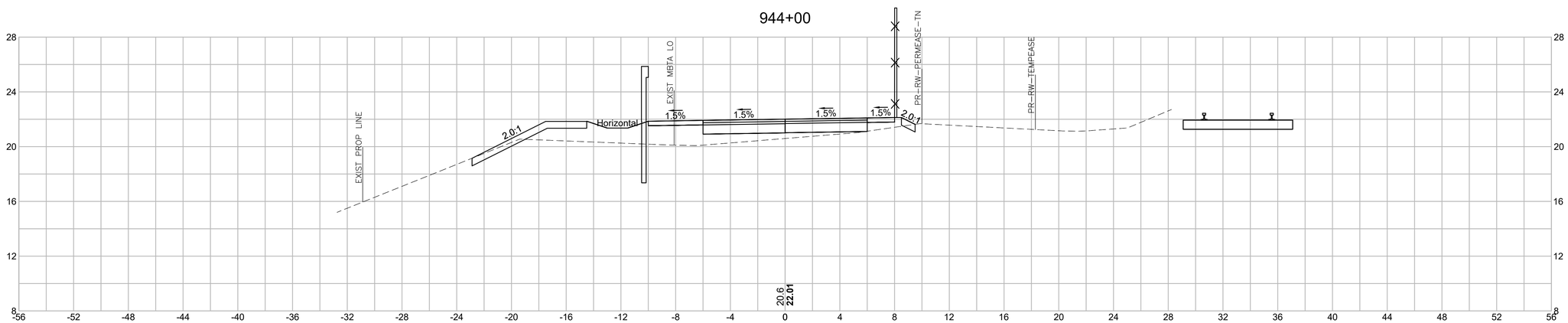
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	200	221
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 9/2/2026 12:22 PM

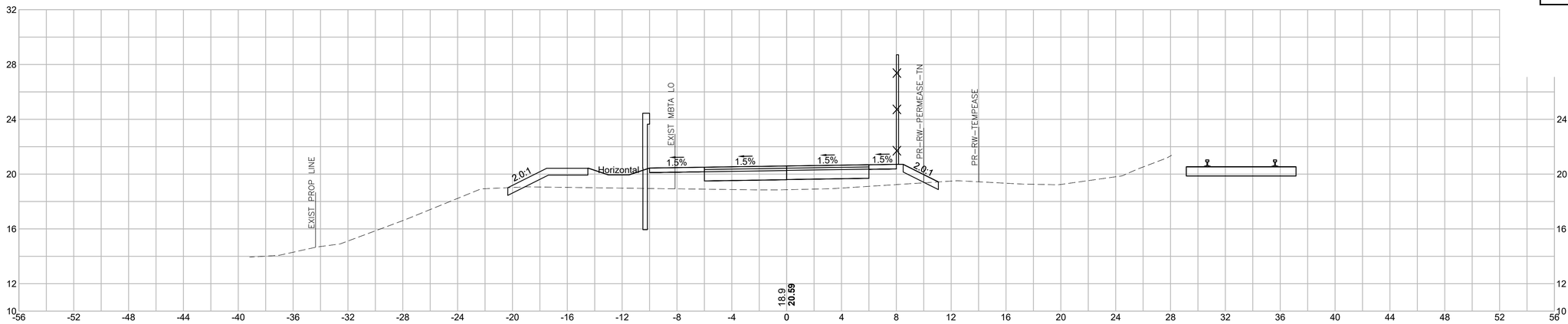
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:22 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	201	221
PROJECT FILE NO.	609204		

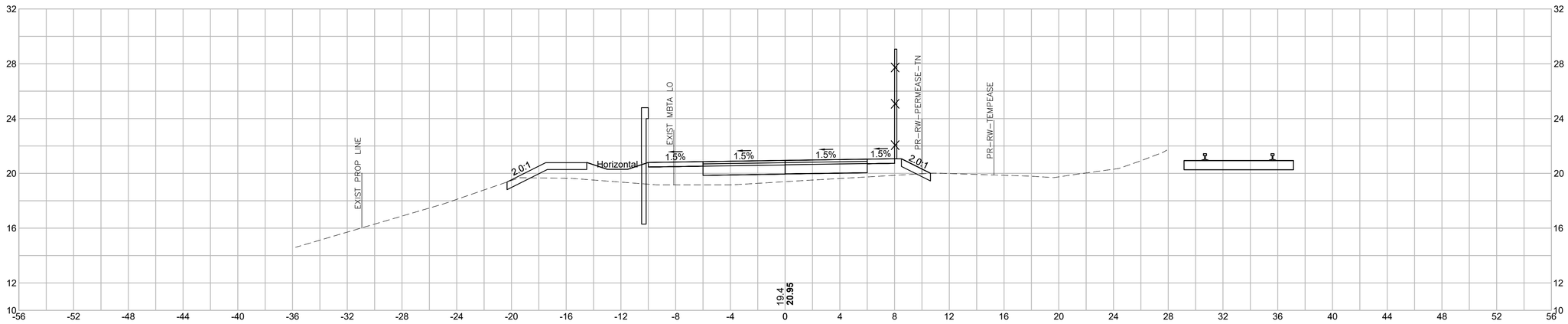
CROSS SECTIONS

946+00



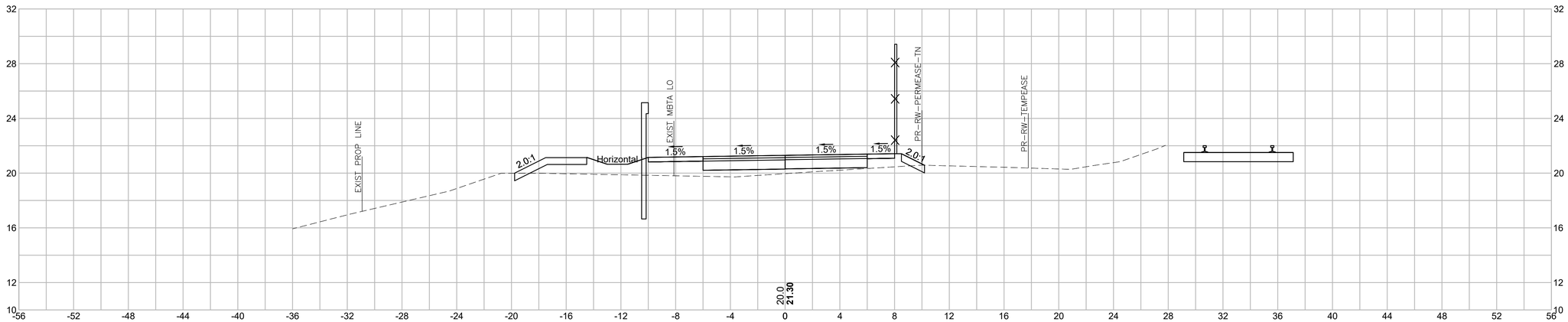
EXCAVATION: 2
EMBANKMENT:23

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 9/2/2026 12:22 PM

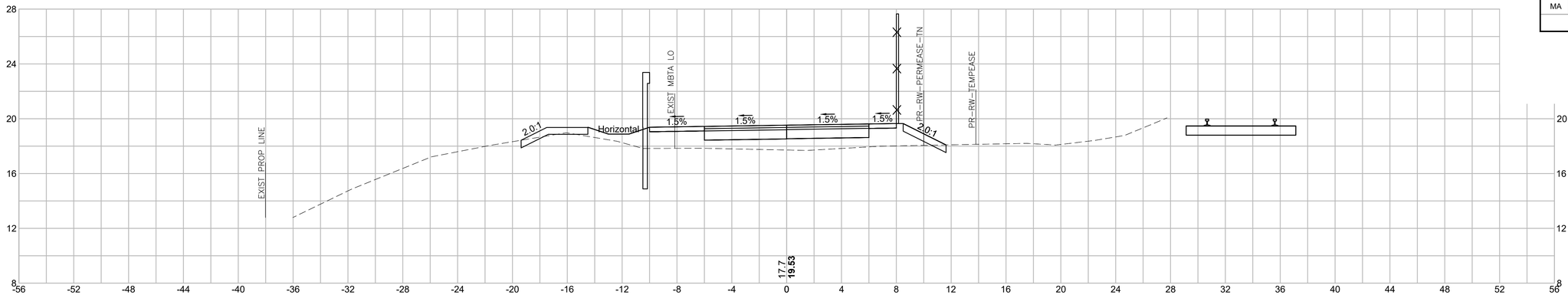
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:22 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	202	221
PROJECT FILE NO.	609204		

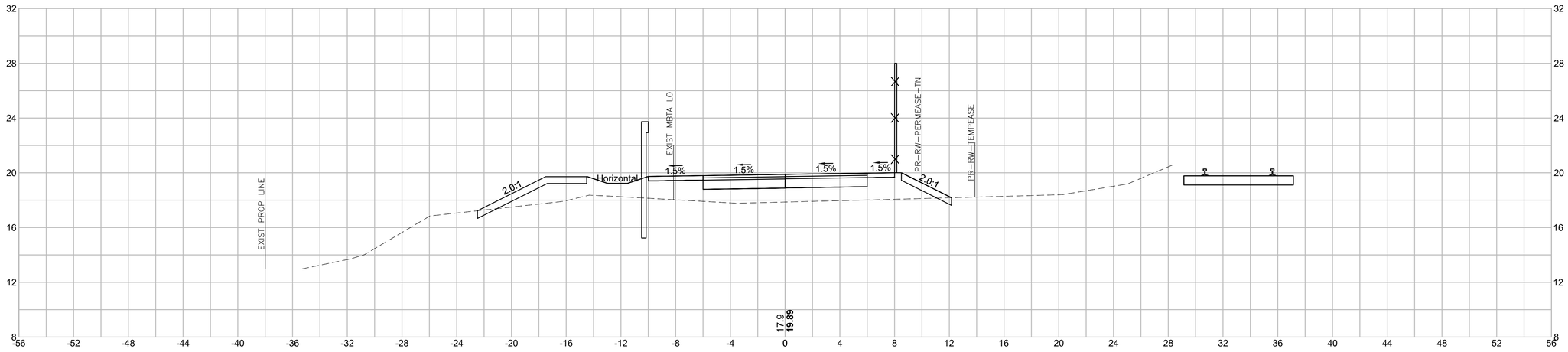
CROSS SECTIONS

947+50



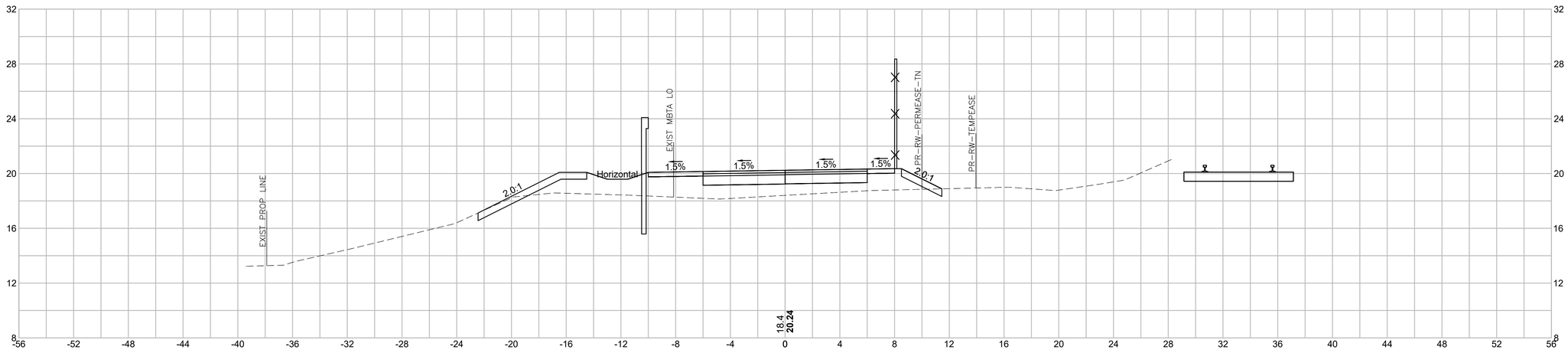
EXCAVATION: 2
EMBANKMENT:20

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 9/2/2026 12:22 PM

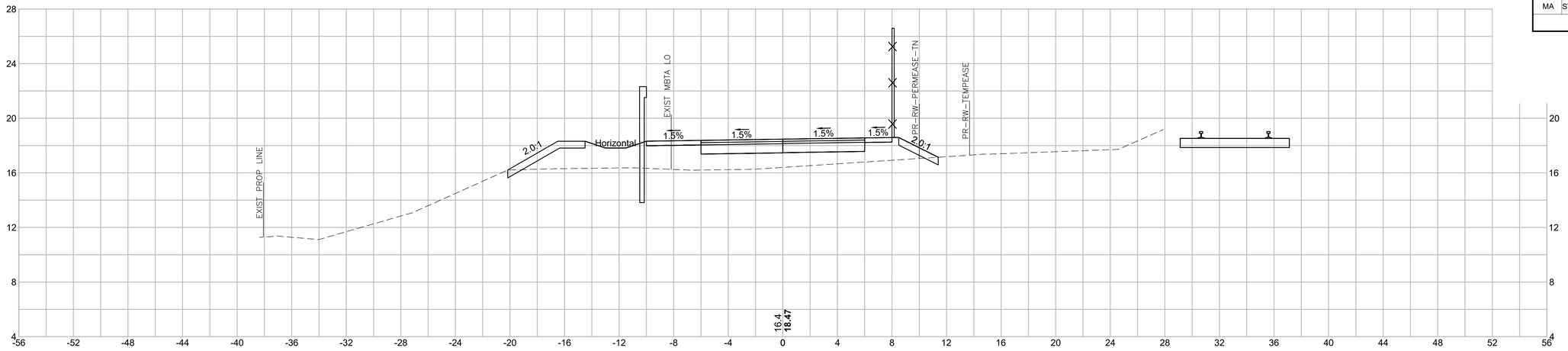
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:22 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	203	221
PROJECT FILE NO.	609204		

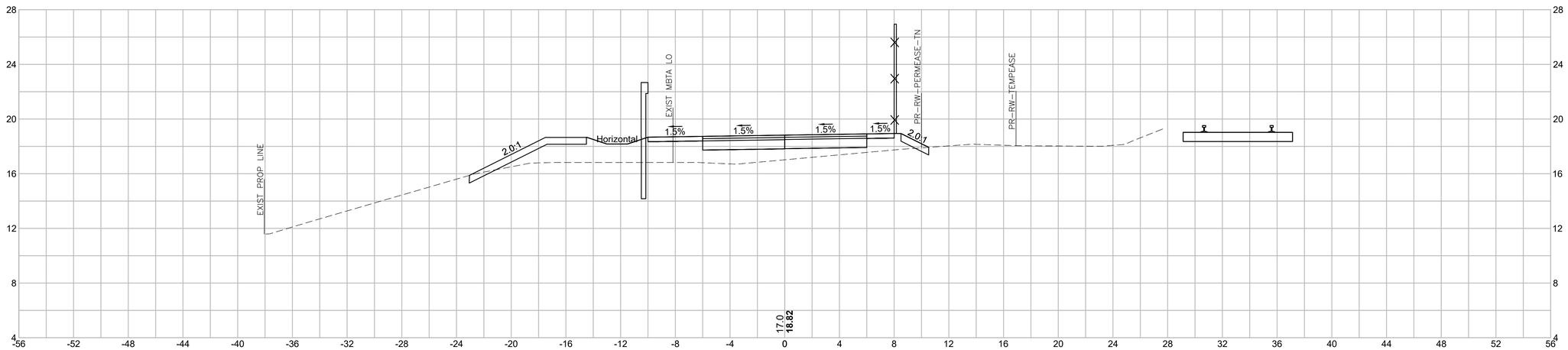
CROSS SECTIONS

949+00



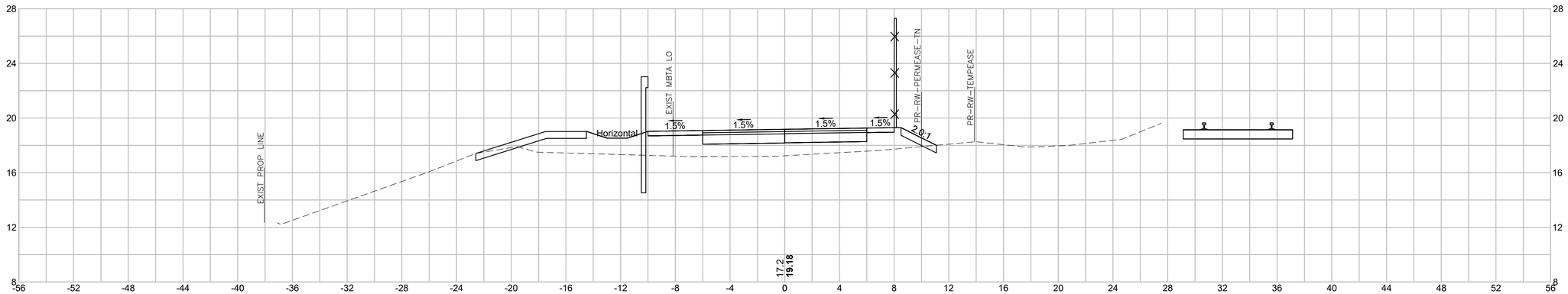
EXCAVATION: 1
EMBANKMENT:35

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 9/2/2026 12:23 PM

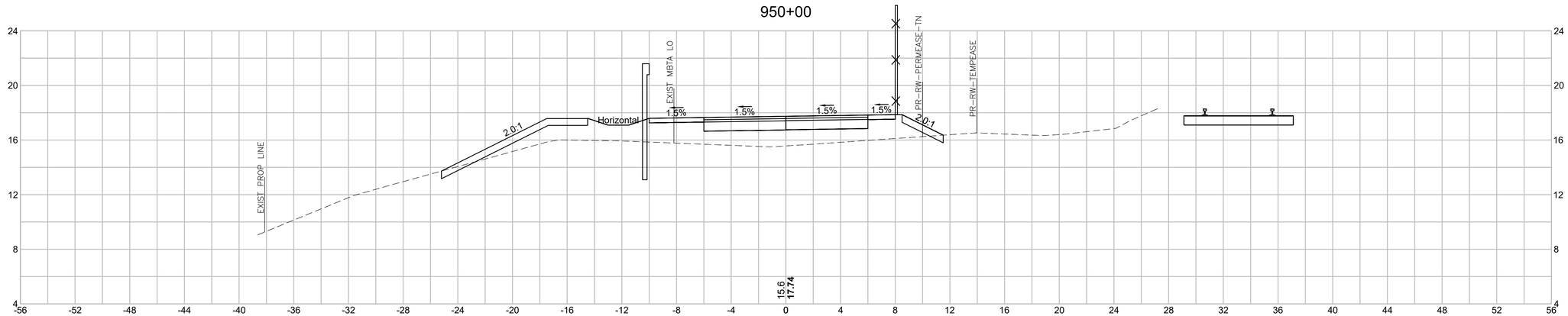
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:23 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	204	221
PROJECT FILE NO.	609204		

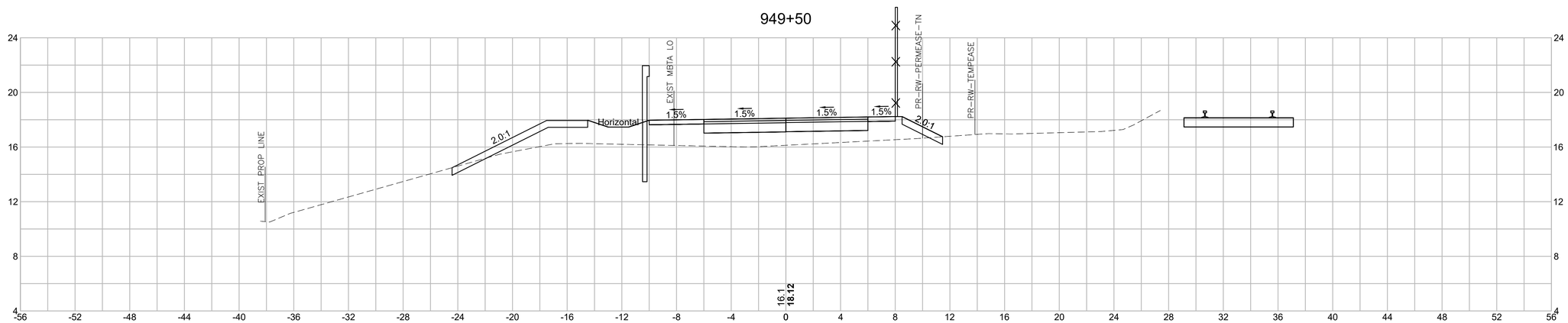
CROSS SECTIONS

950+00



EXCAVATION: 2
EMBANKMENT:32

949+50



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 9/2/2026 12:23 PM

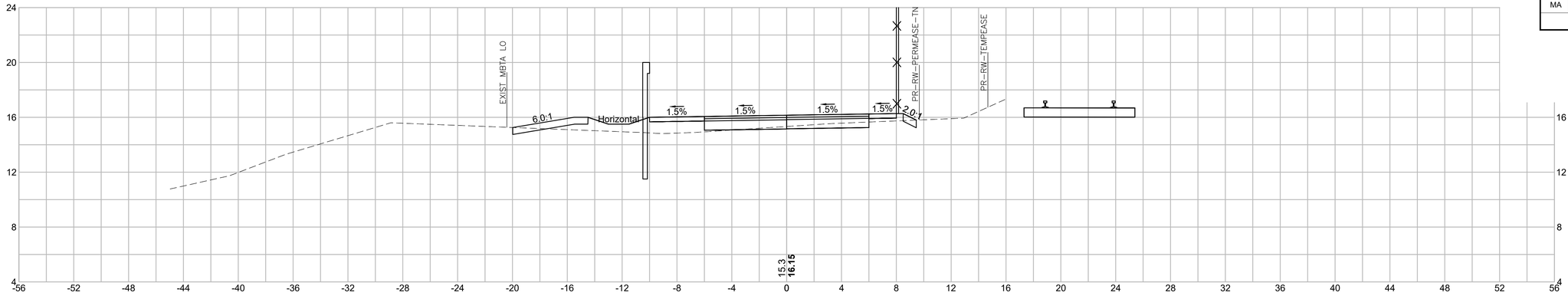
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:23 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	205	221
PROJECT FILE NO.	609204		

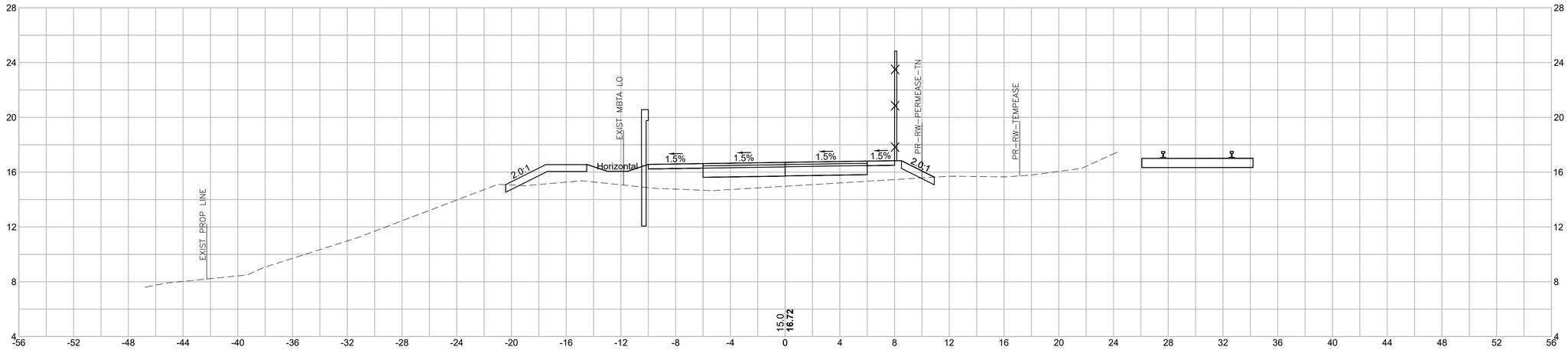
CROSS SECTIONS

951+50



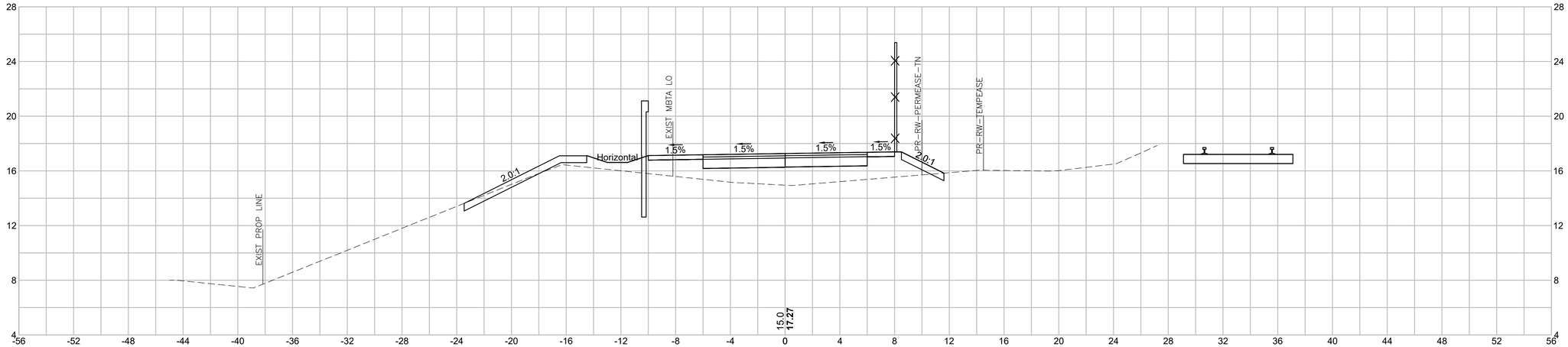
EXCAVATION: 4
EMBANKMENT:9

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 9/2/2026 12:23 PM

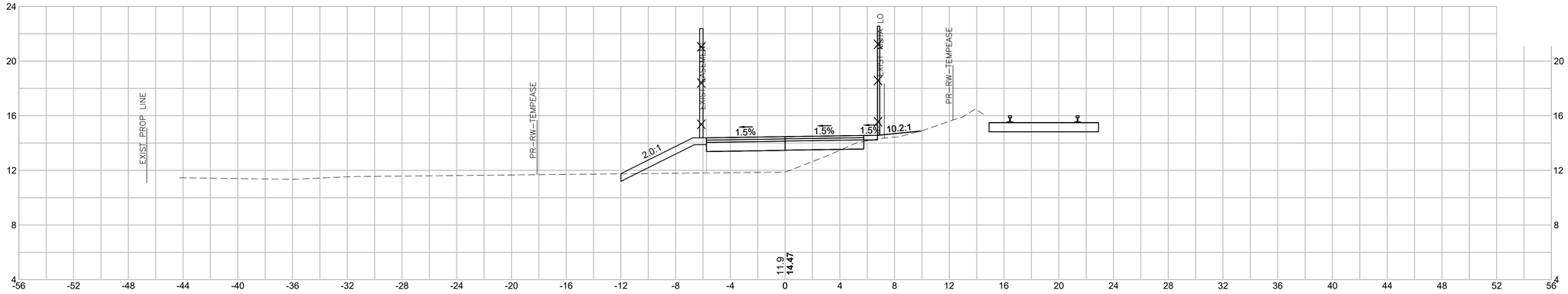
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:23 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	206	221
	PROJECT FILE NO. 609204		

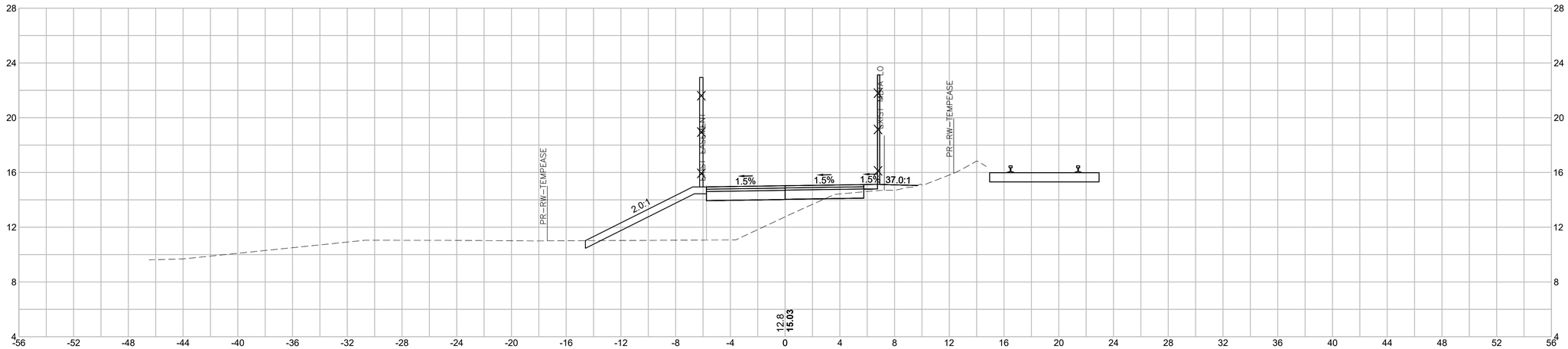
CROSS SECTIONS

953+00



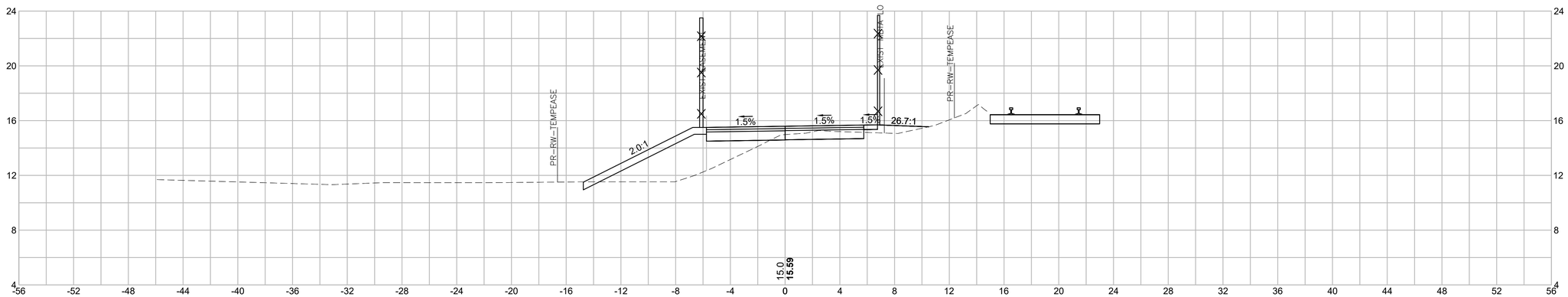
EXCAVATION: 7
EMBANKMENT:19

952+50



EXCAVATION: 10
EMBANKMENT:30

952+00



EXCAVATION: 9
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 9/2/2026 12:23 PM

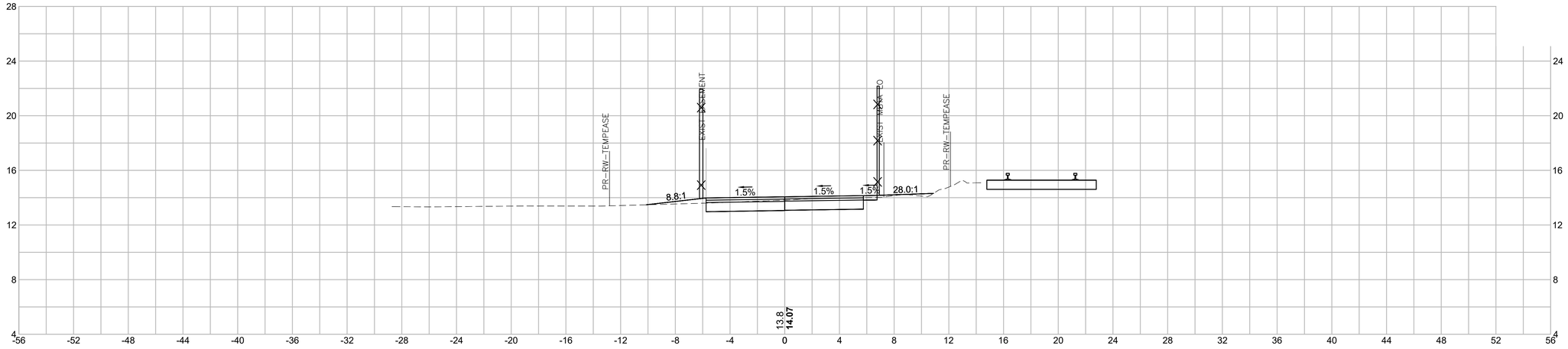
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:23 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	207	221
PROJECT FILE NO.	609204		

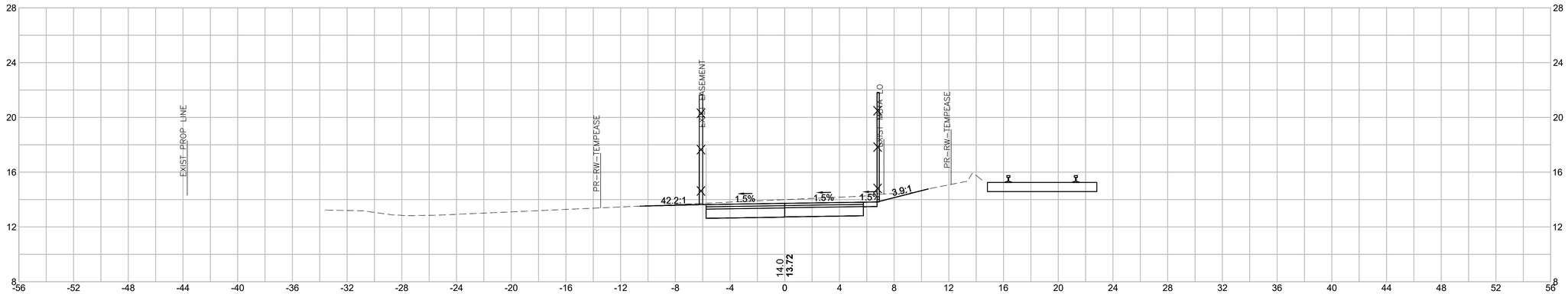
CROSS SECTIONS

954+50



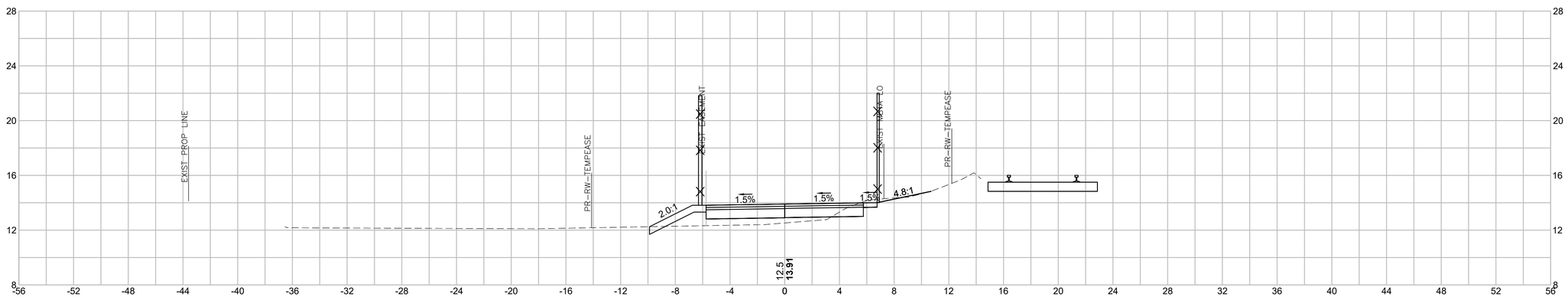
EXCAVATION: 11
EMBANKMENT:1

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 9/2/2026 12:24 PM

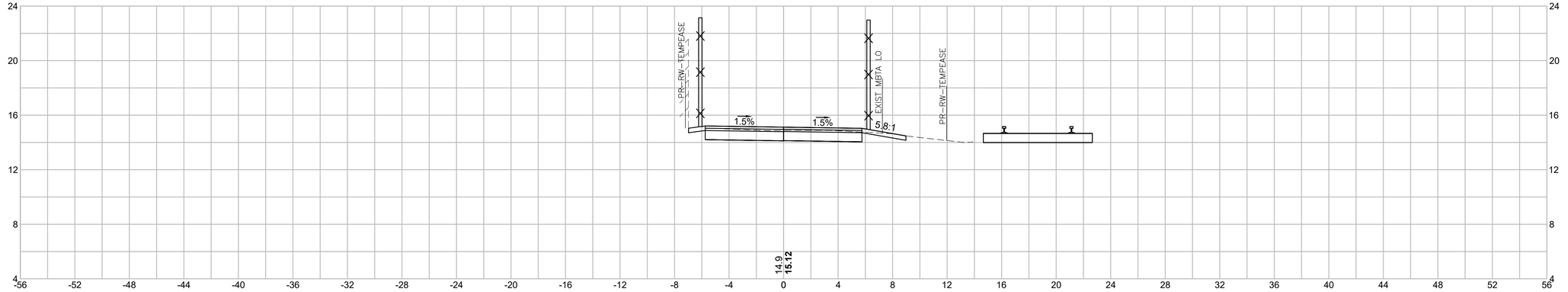
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:24 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	208	221
PROJECT FILE NO.	609204		

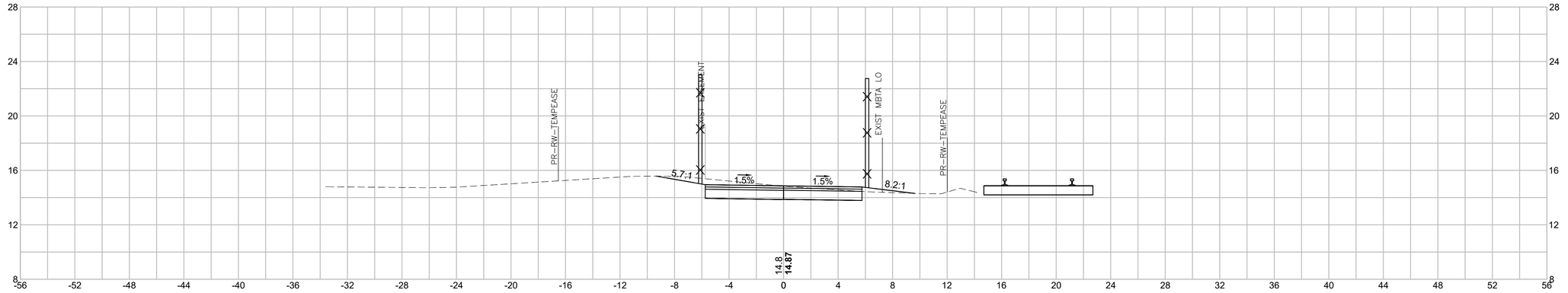
CROSS SECTIONS

956+00



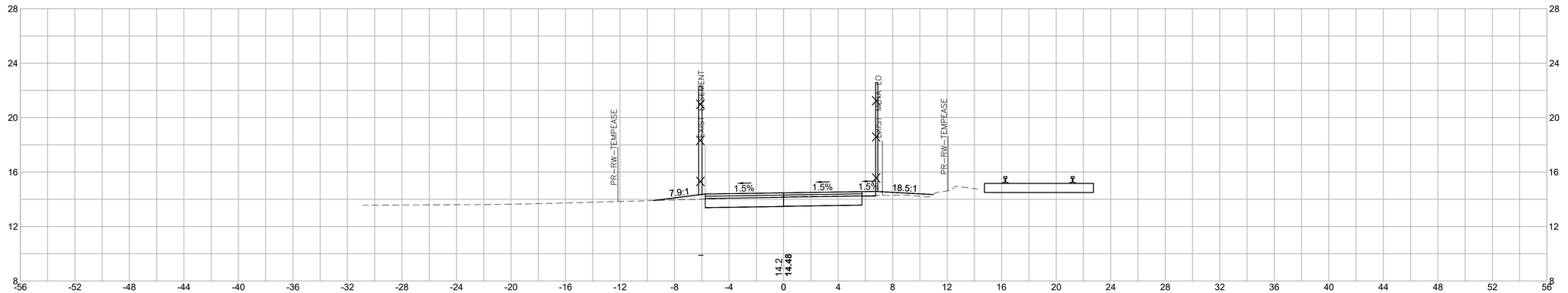
EXCAVATION: 85
EMBANKMENT:0

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

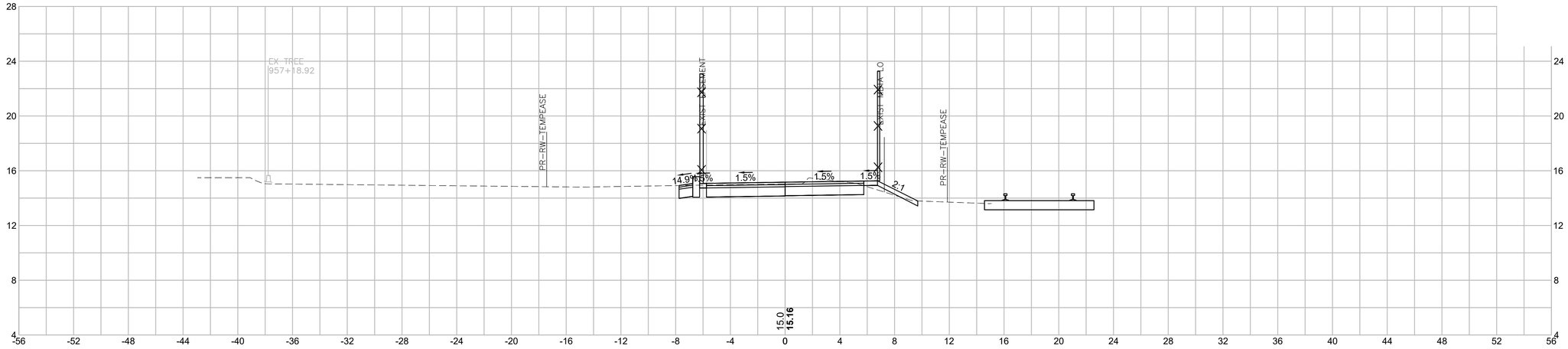
Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 9/2/2026 12:24 PM
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:24 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	209	221
PROJECT FILE NO.	609204		

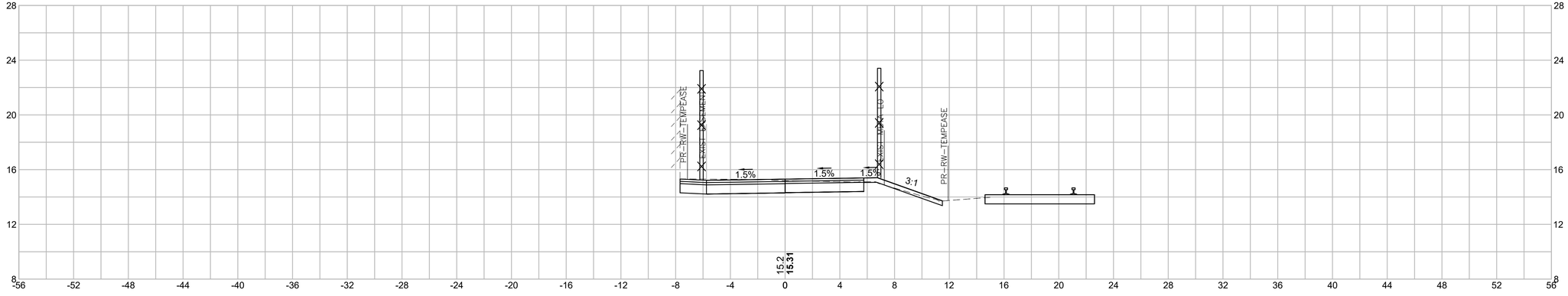
CROSS SECTIONS

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 9/2/2026 12:24 PM

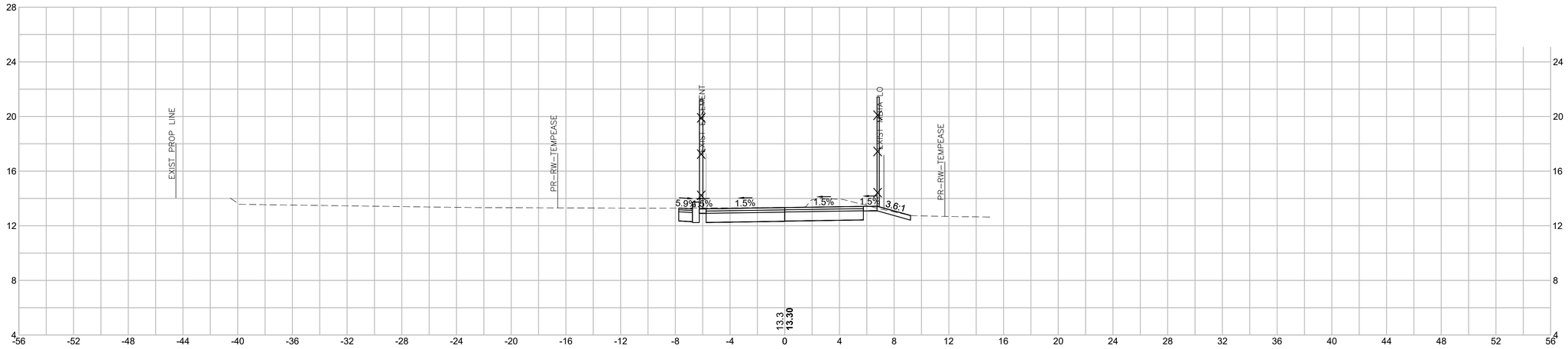
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:24 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	210	221
PROJECT FILE NO.	609204		

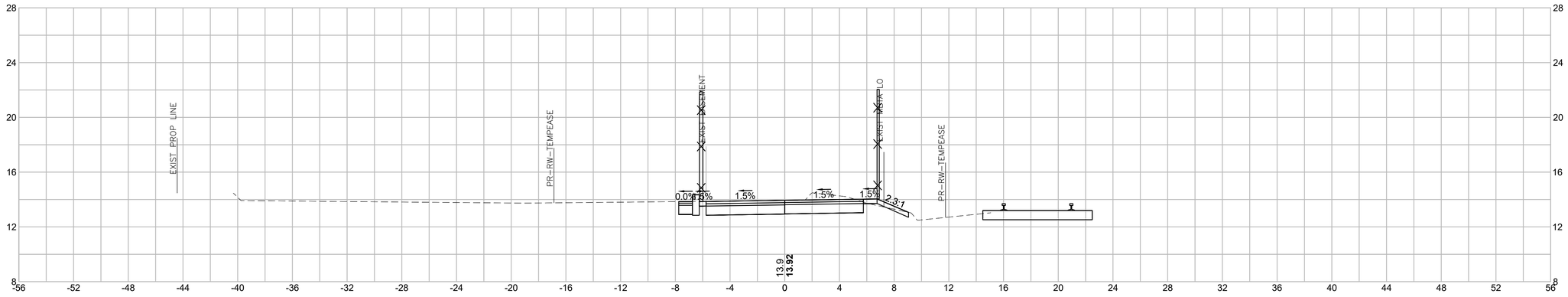
CROSS SECTIONS

958+50



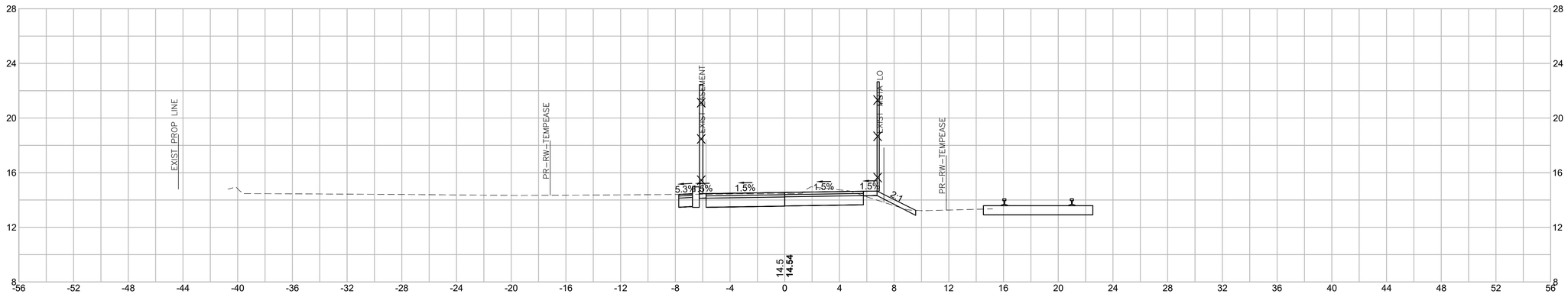
EXCAVATION: 17
EMBANKMENT:0

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 9/2/2026 12:24 PM

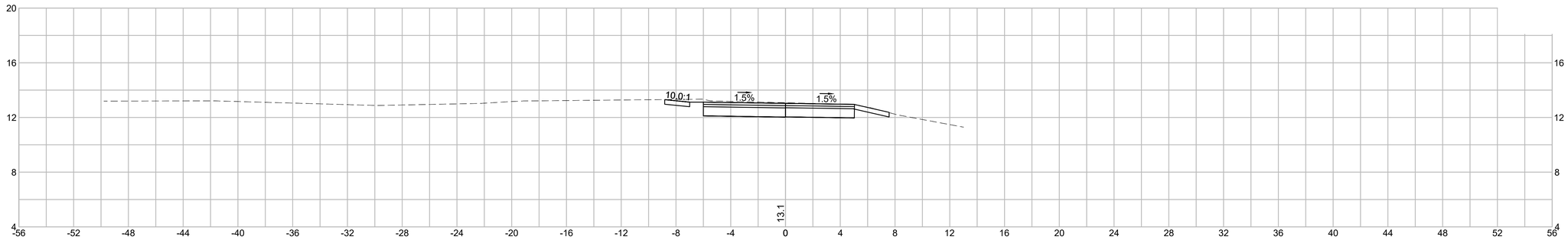
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:24 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	211	221
PROJECT FILE NO.	609204		

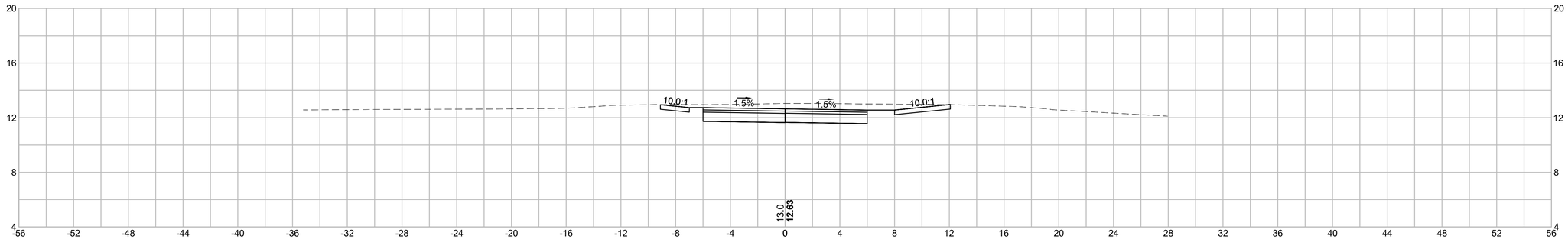
CROSS SECTIONS

960+50



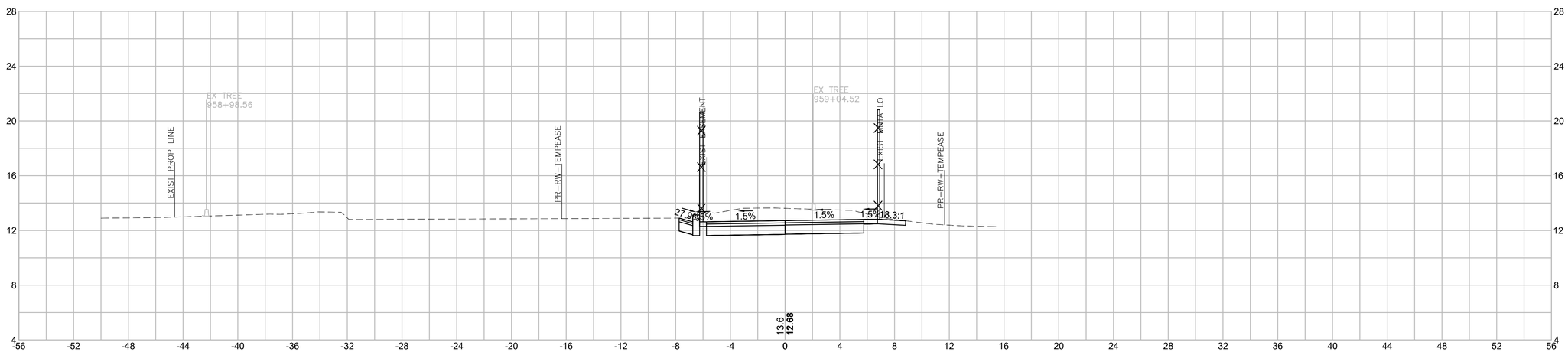
EXCAVATION: 14
EMBANKMENT: 0

960+00



EXCAVATION: 22
EMBANKMENT: 0

959+00



EXCAVATION: 25
EMBANKMENT: 0

HOR. SCALE IN FEET
4 0 4 8
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 9/2/2026 12:25 PM

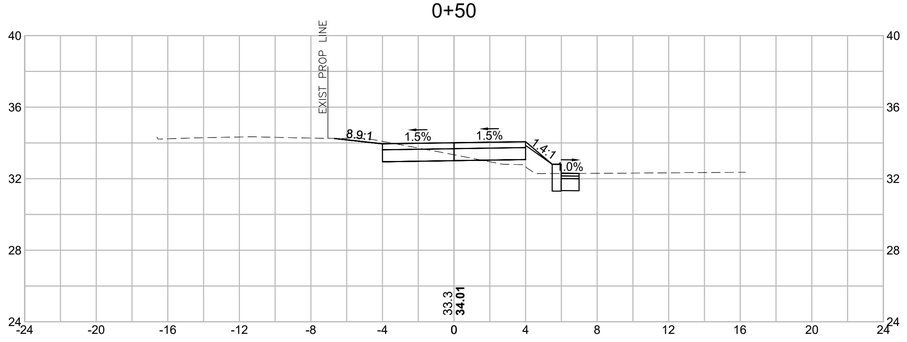
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:25 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	212	221
PROJECT FILE NO.	609204		

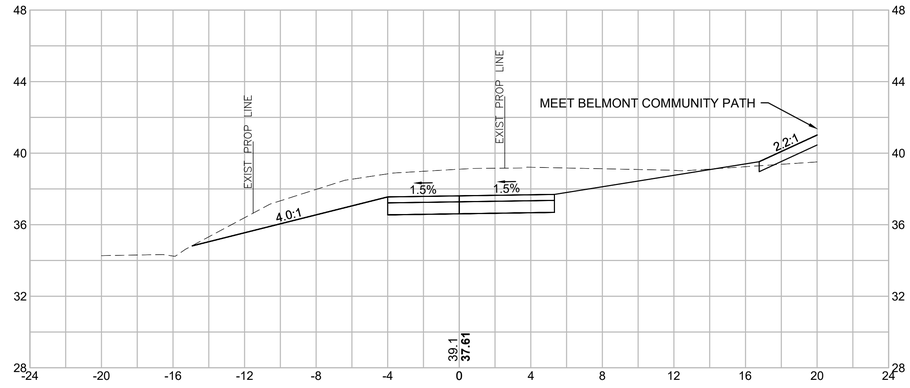
CROSS SECTIONS

0+50



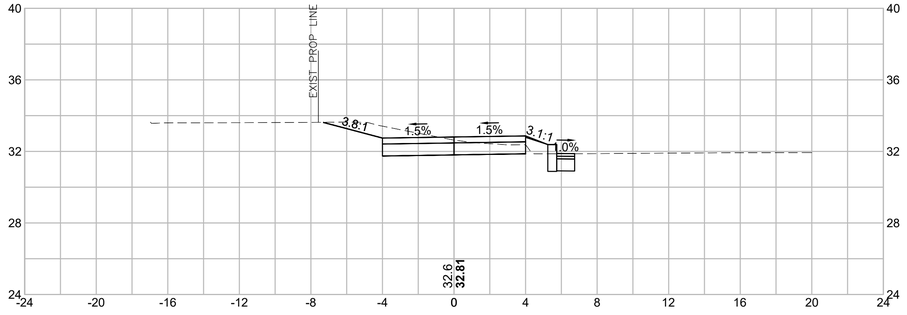
EXCAVATION: 5
EMBANKMENT: 2

1+25



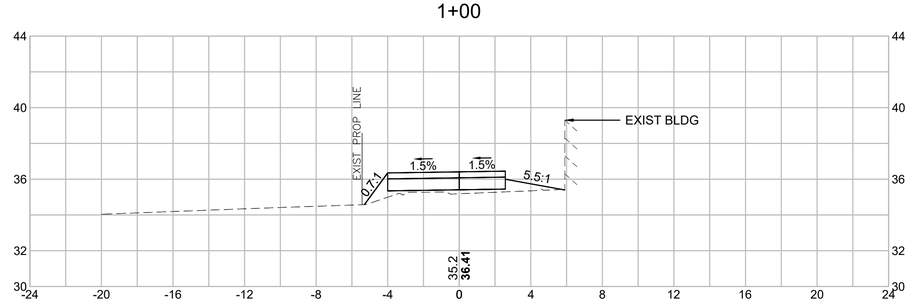
EXCAVATION: 38
EMBANKMENT: 16

0+25



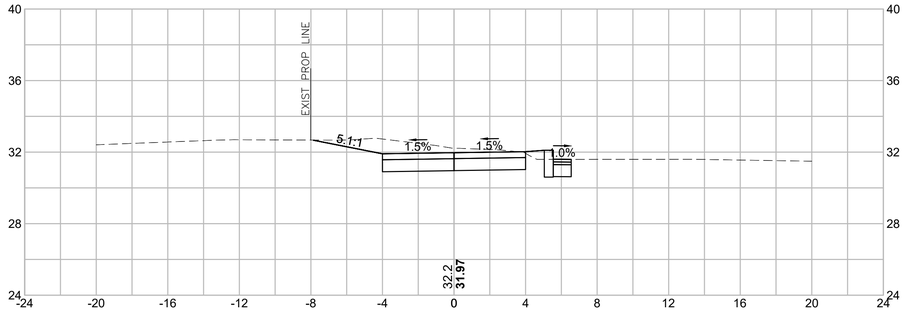
EXCAVATION: 10
EMBANKMENT: 1

1+00



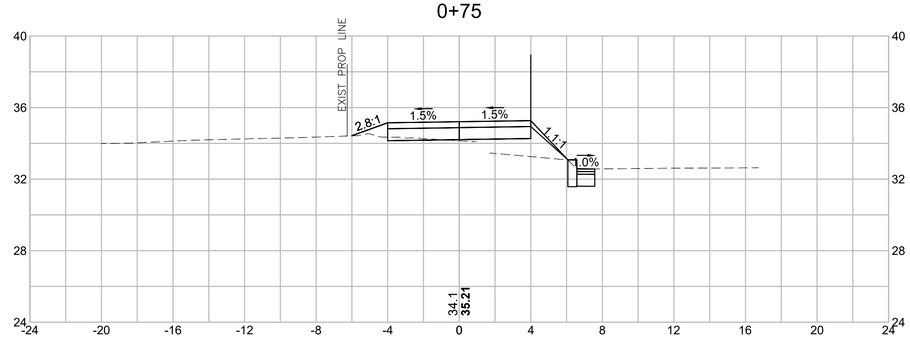
EXCAVATION: 0
EMBANKMENT: 3

0+05



EXCAVATION: 14
EMBANKMENT: 0

0+75



EXCAVATION: 2
EMBANKMENT: 5

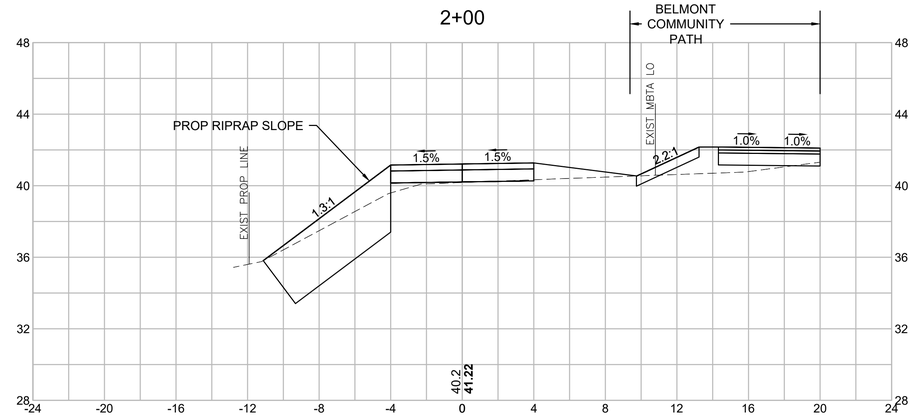
HOR. SCALE IN FEET
4 0 4 8
VER. SCALE IN FEET
4 0 4 8

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 9/2/2026 12:25 PM
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:25 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	213	221
PROJECT FILE NO.	609204		

CROSS SECTIONS



EXCAVATION: 19
EMBANKMENT: 3



EXCAVATION: 1
EMBANKMENT: 12

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 9/2/2026 12:25 PM

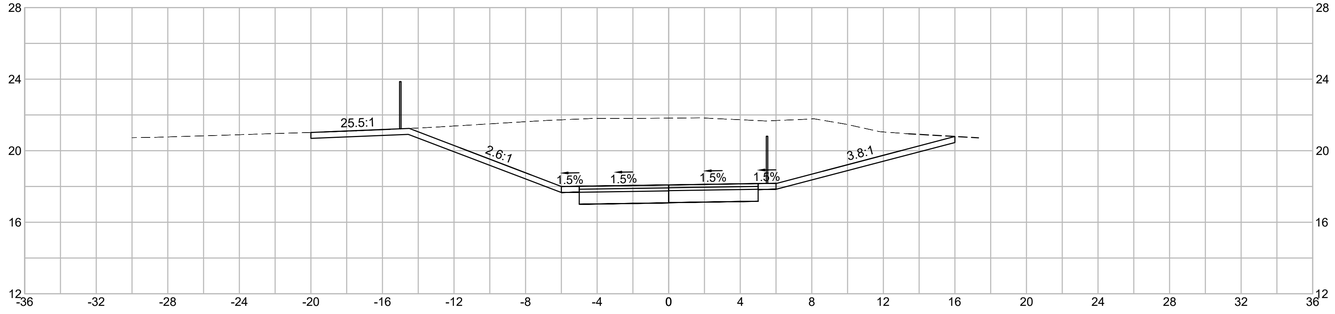
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:25 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	214	221
PROJECT FILE NO.	609204		

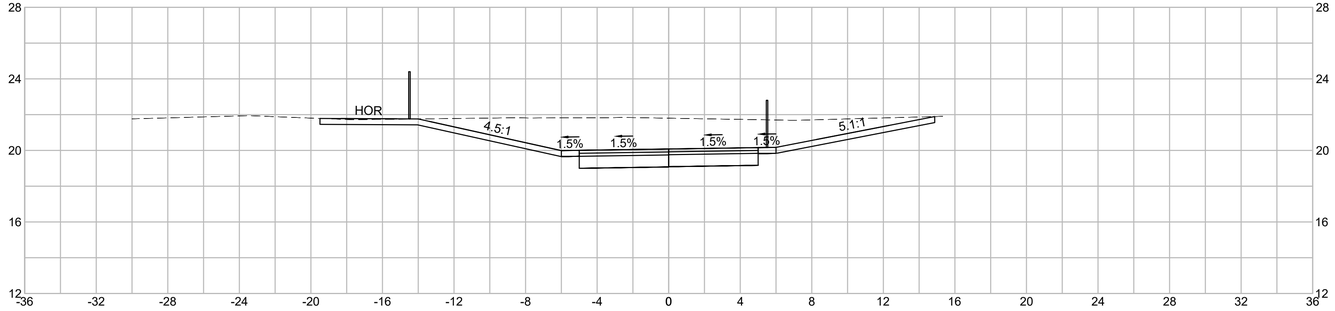
CROSS SECTIONS

501+00



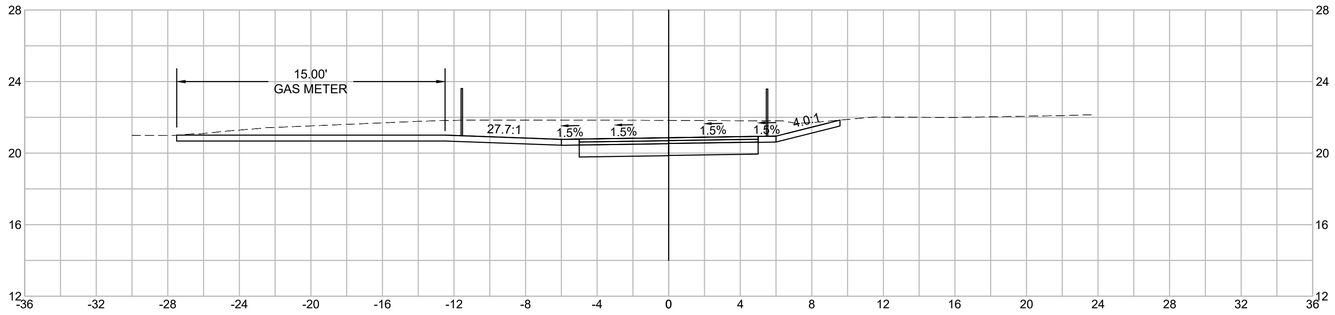
EXCAVATION: 95
EMBANKMENT: 0

500+50



EXCAVATION: 52
EMBANKMENT: 0

500+25



EXCAVATION: 46
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 9/2/2026 12:25 PM

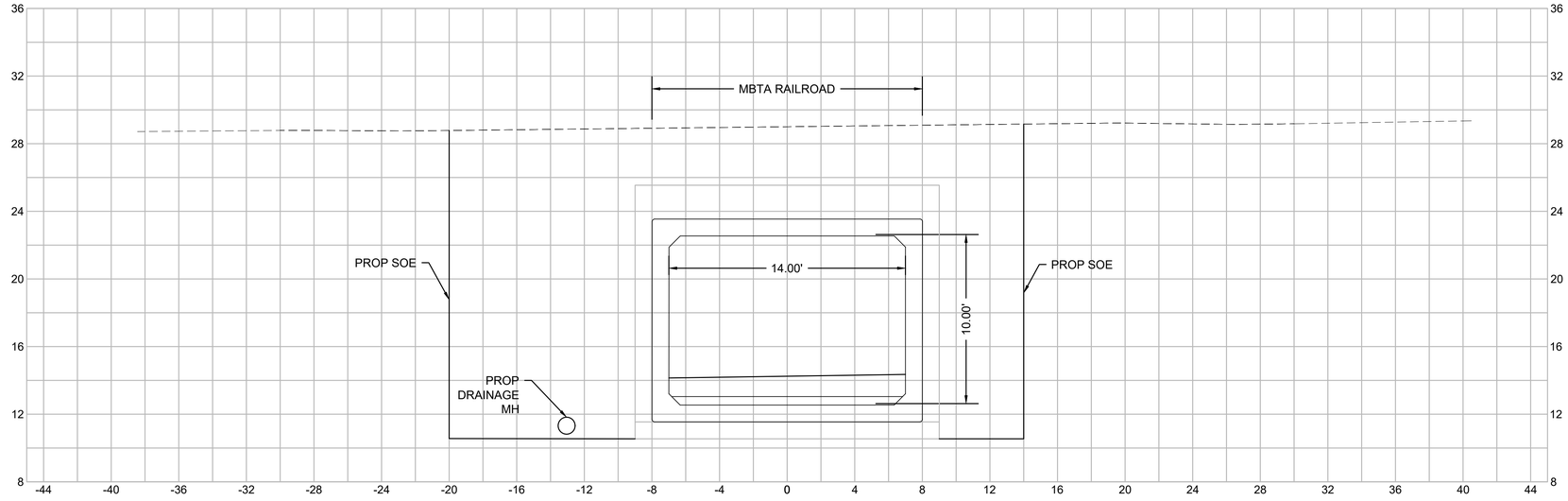
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:25 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	215	221
PROJECT FILE NO.	609204		

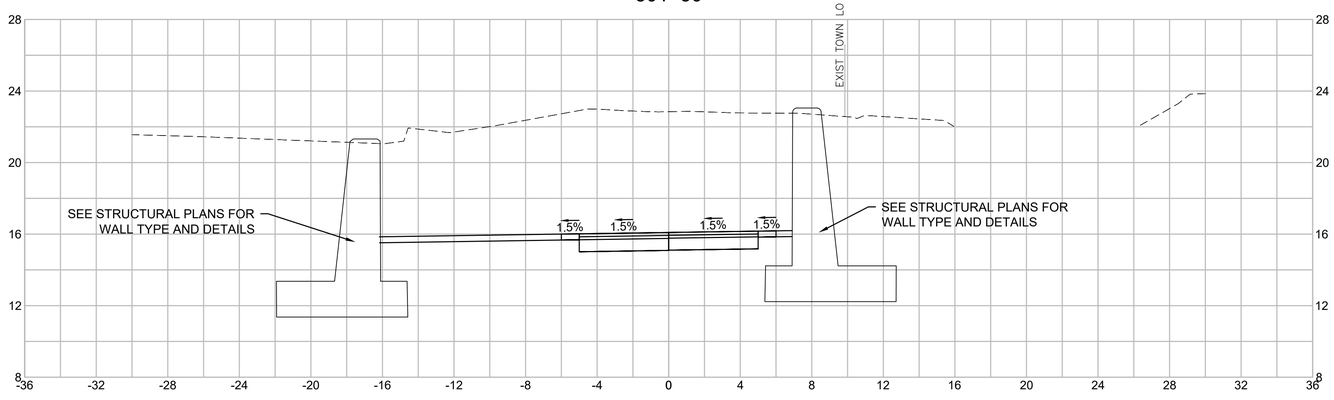
CROSS SECTIONS

502+50



EXCAVATION: 408
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 9/2/2026 12:26 PM

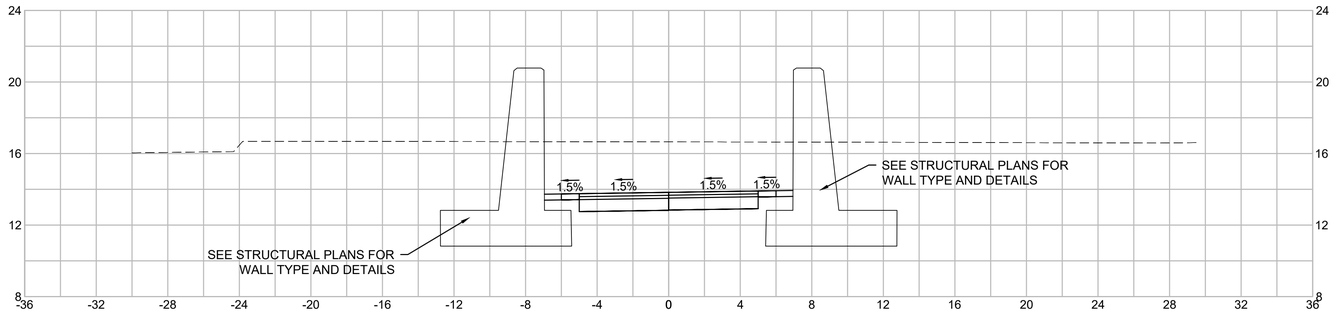
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:26 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	216	221
PROJECT FILE NO.	609204		

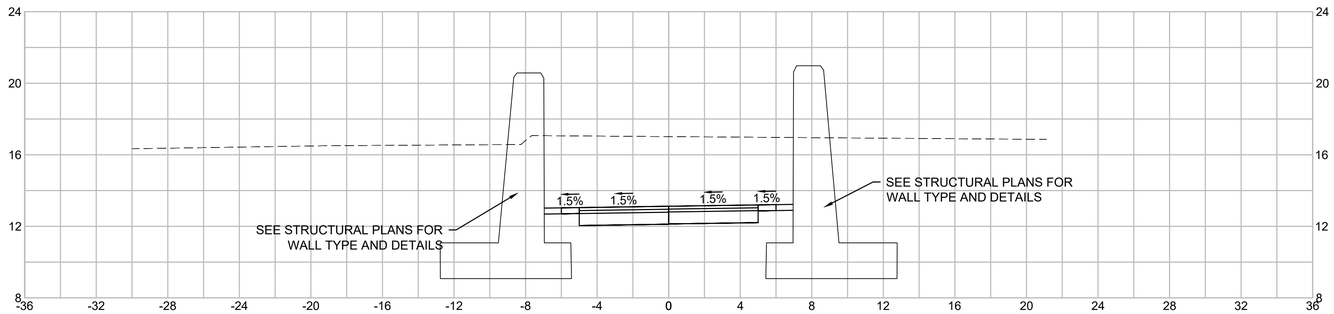
CROSS SECTIONS

504+00



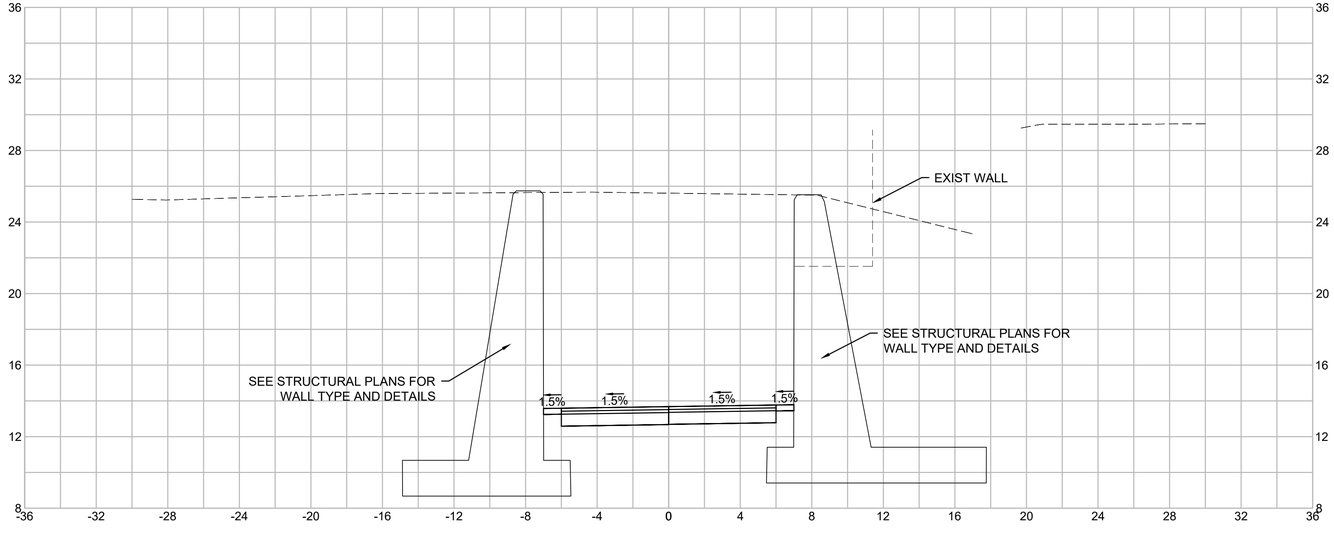
EXCAVATION: 175
EMBANKMENT: 0

503+50



EXCAVATION: 195
EMBANKMENT: 0

503+00



EXCAVATION: 285
EMBANKMENT: 0

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

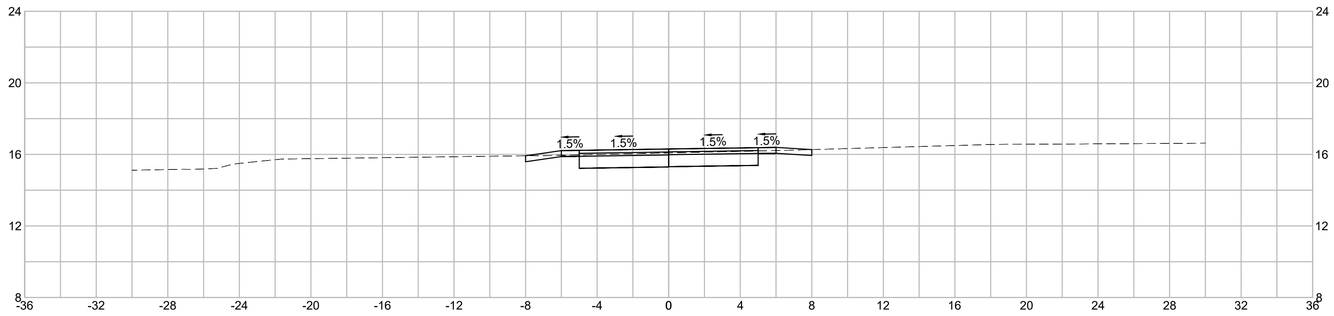
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609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:26 PM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	217	221
PROJECT FILE NO.	609204		

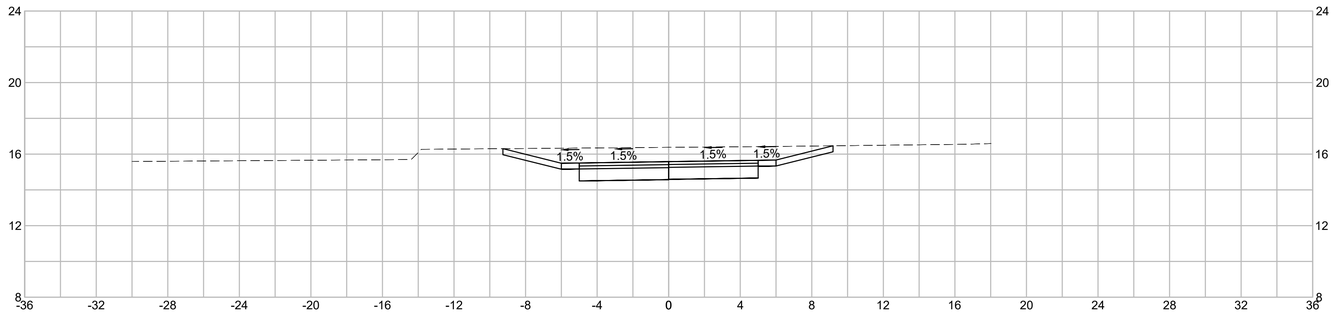
CROSS SECTIONS

505+00



EXCAVATION: 12
EMBANKMENT: 0

504+50



EXCAVATION: 38
EMBANKMENT: 0

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 9/2/2026 12:26 PM

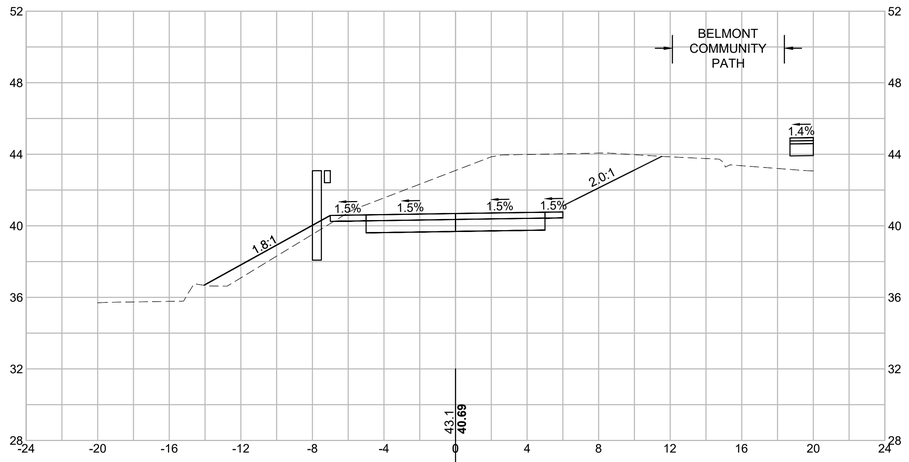
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:26 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	218	221
PROJECT FILE NO.	609204		

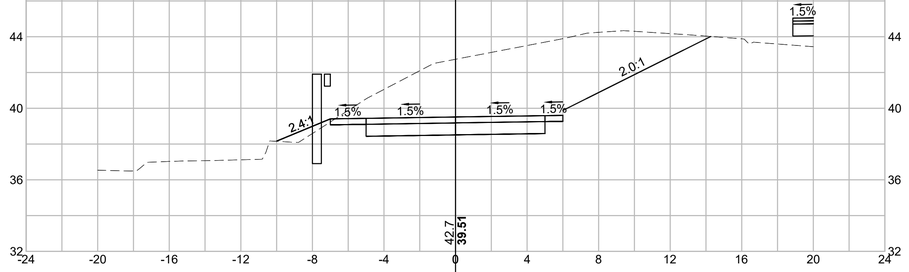
CROSS SECTIONS

50+50



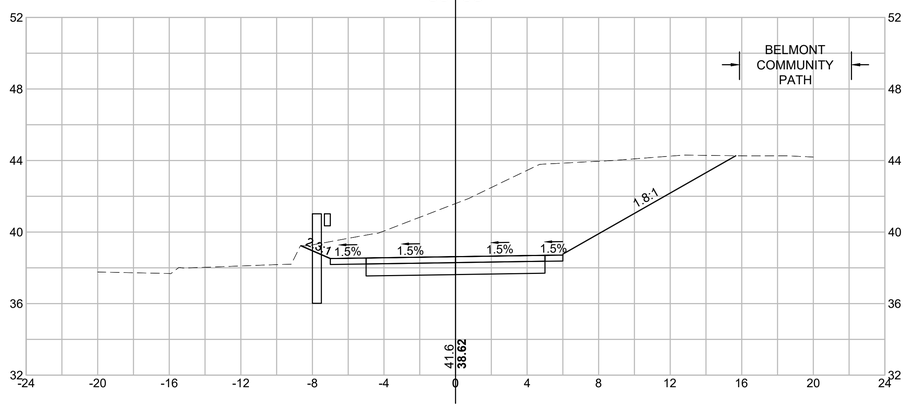
EXCAVATION: 43
EMBANKMENT: 9

50+25



EXCAVATION: 63
EMBANKMENT: 7

50+05



EXCAVATION: 71
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 9/2/2026 12:26 PM
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:26 PM

Nitsch – P:\10000–14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT–REV).dwg 9/2/2026 12:27 PM

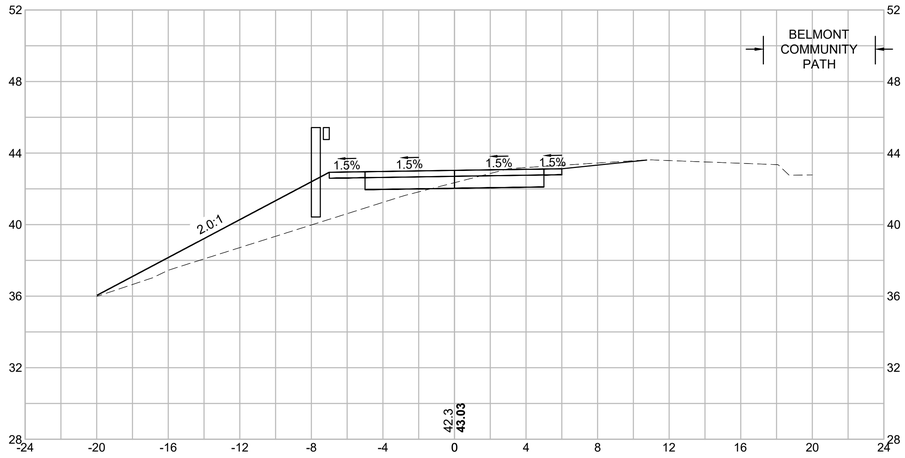
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:27 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	219	221
PROJECT FILE NO.	609204		

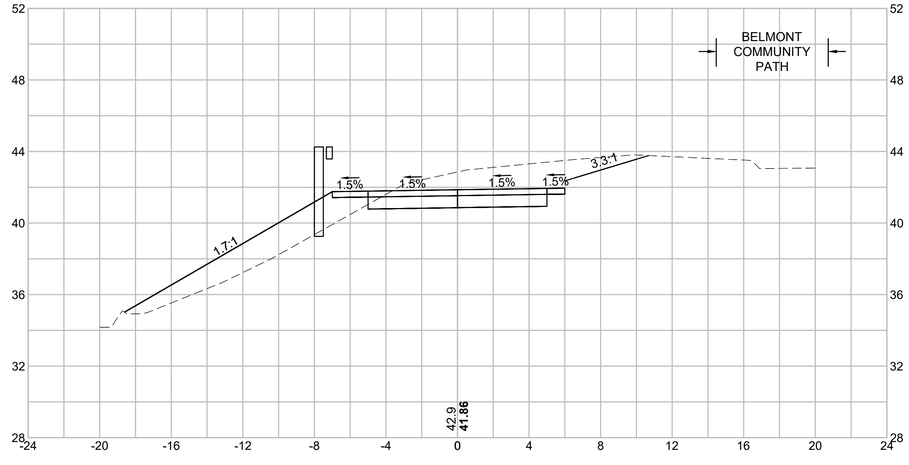
CROSS SECTIONS

51+00



EXCAVATION: 36
EMBANKMENT: 3

50+75



EXCAVATION: 20
EMBANKMENT: 28

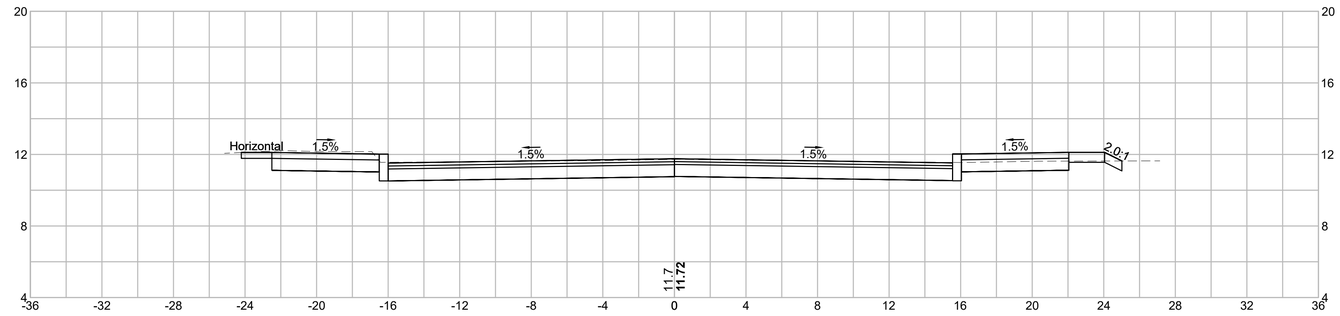
HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	220	221
PROJECT FILE NO.	609204		

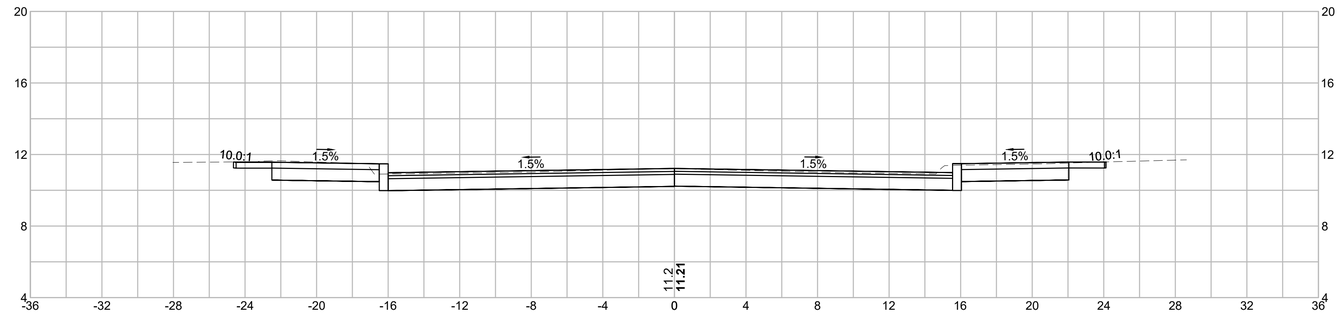
CROSS SECTIONS

201+00



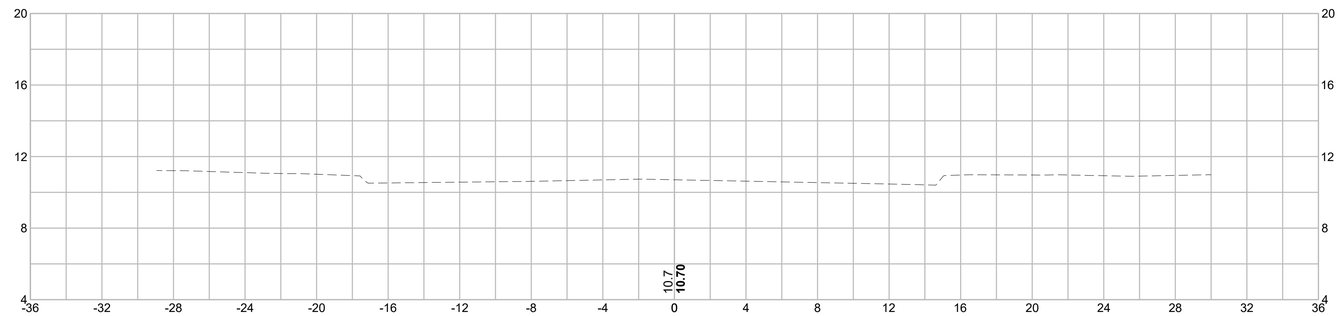
EXCAVATION: 36
EMBANKMENT: 0

200+50



EXCAVATION: 112
EMBANKMENT: 2

200+00



Nitsch – P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 9/2/2026 12:27 PM

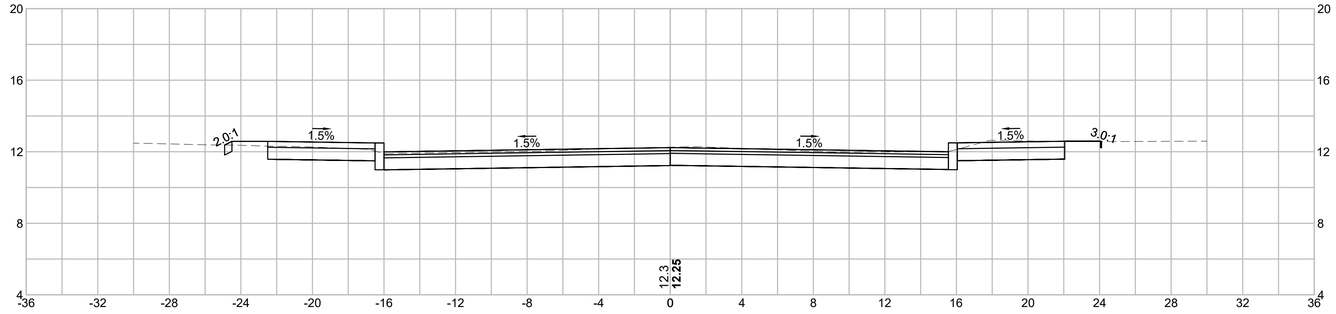
609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:27 PM

BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	STP/CMQ/TAP-0034(035)X	221	221
PROJECT FILE NO.	609204		

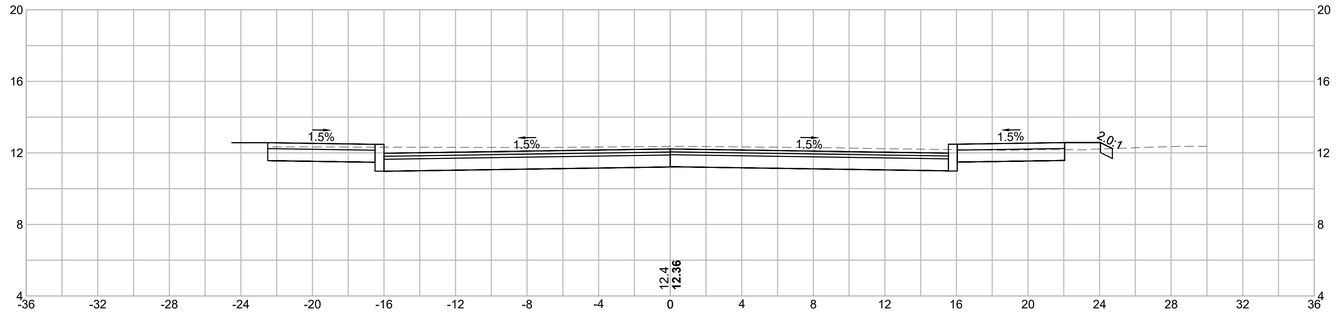
CROSS SECTIONS

202+00



EXCAVATION: 36
EMBANKMENT: 0

201+50



EXCAVATION: 36
EMBANKMENT: 0

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(XSECT-REV).dwg 9/2/2026 12:27 PM

609204_HD(XSECT-REV).DWG Plotted on Sep-26 12:27 PM