

# MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	1	157

PROJECT FILE NO. 609204

**TITLE SHEET & INDEX**

PLAN AND PROFILE OF  
**BELMONT COMMUNITY PATH - PHASE 1**  
**BELMONT COMPONENT OF THE MASS CENTRAL RAIL TRAIL**  
IN THE TOWN OF  
**BELMONT**  
MIDDLESEX COUNTY

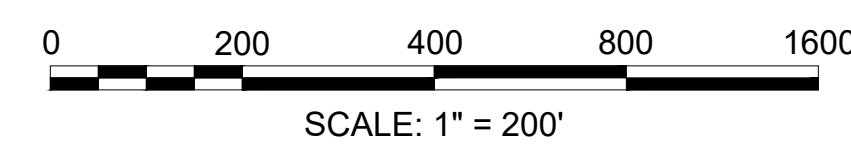
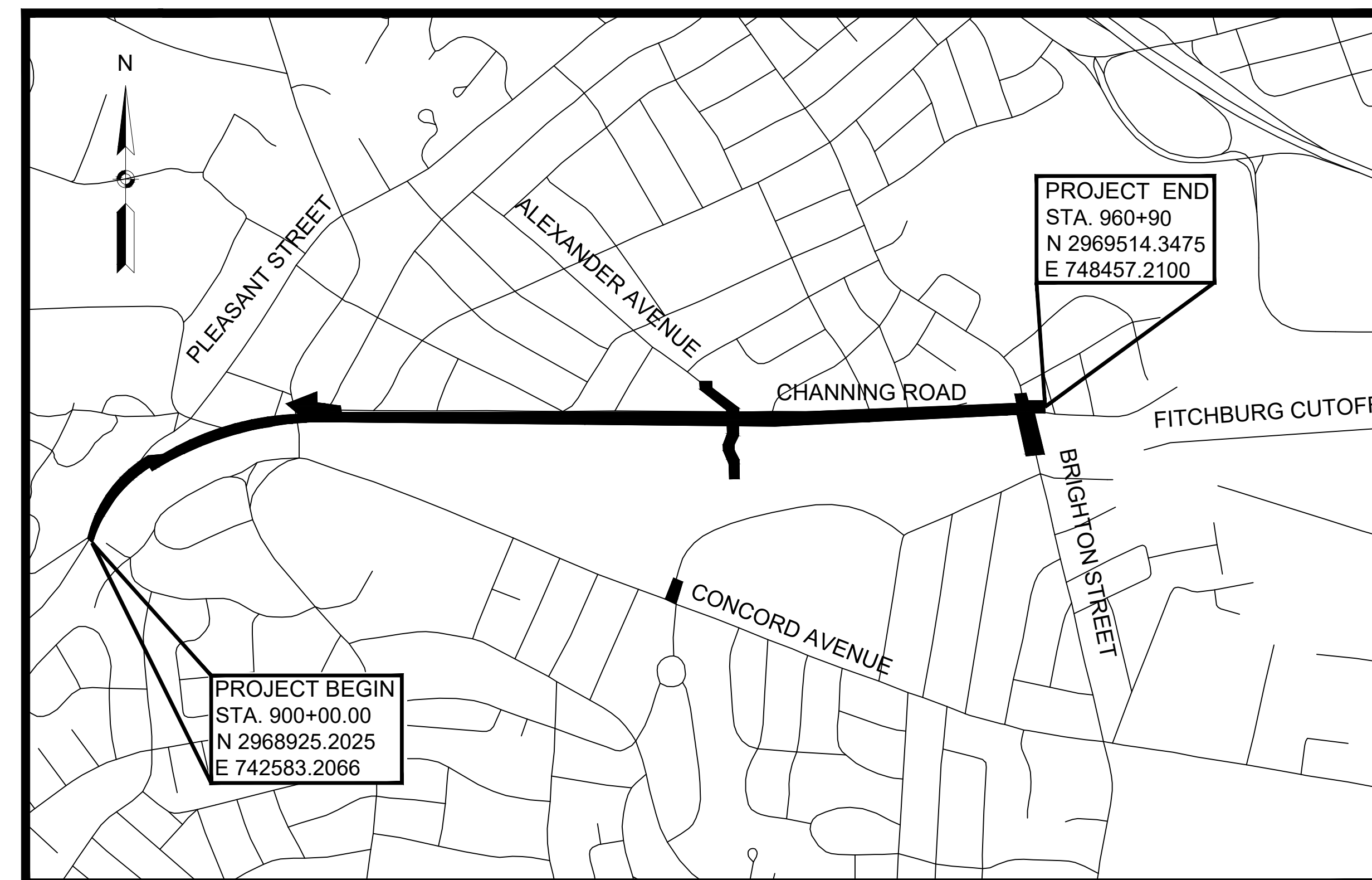
FEDERAL AID PROJECT NO.

## 25% SUBMITTAL

THESE PLANS ARE SUPPLEMENTED BY THE MASSACHUSETTS DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 2020, OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

**INDEX**

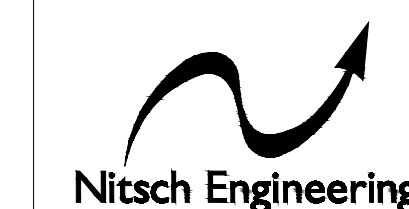
SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	LEGEND & ABBREVIATIONS
3	GENERAL NOTES
4	KEY PLAN
5-11	TYPICAL SECTIONS & PAVEMENT NOTES
12-21	BASELINE TIES PLAN
22-36	CONSTRUCTION PLAN AND PROFILE
37-44	TRAFFIC SIGN & PAVEMENT MARKINGS PLANS
45	TRAFFIC SIGNAL PLAN
46	TRAFFIC SIGN SUMMARY
47	TRAFFIC SIGN DETAILS
48-52	TEMPORARY TRAFFIC CONTROL PLANS
53-60	DRAINAGE & UTILITY PLANS
61-63	LIGHTING PLANS
64-76	LANDSCAPING PLANS
77-80	CONSTRUCTION DETAILS
82-90	SITE RETAINING WALLS
91-92	CULVERT DETAILS
93-157	CROSS SECTIONS



LENGTH OF PROJECT = 6087.39 FEET = 1.153 MILES

**SHARED USE PATH DESIGN DESIGNATION**

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



**www.nitscheng.com**  
2 Center Plaza, Suite 430  
Boston, MA 02108  
T: (617) 338-0063  
F: (617) 338-6472

- Civil Engineering
- Land Surveying
- Transportation Engineering
- Structural Engineering
- Green Infrastructure
- Planning
- GIS

APPROVED

CHIEF ENGINEER

DATE

DATE	DESCRIPTION	REV #
10/29/2021	25% SUBMISSION	1



GENERAL NOTES

1. THE EXISTING TOPOGRAPHIC CONDITIONS SHOWN ON THESE PLANS CONSIST OF ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY NITSCH ENGINEERING SEPTEMBER 2019 AND MAY 2021.
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 HOURS PRIOR TO COMMENCING WORK ON THE PROJECT.
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.

BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	3	157
PROJECT FILE NO.		609204	

GENERAL NOTES

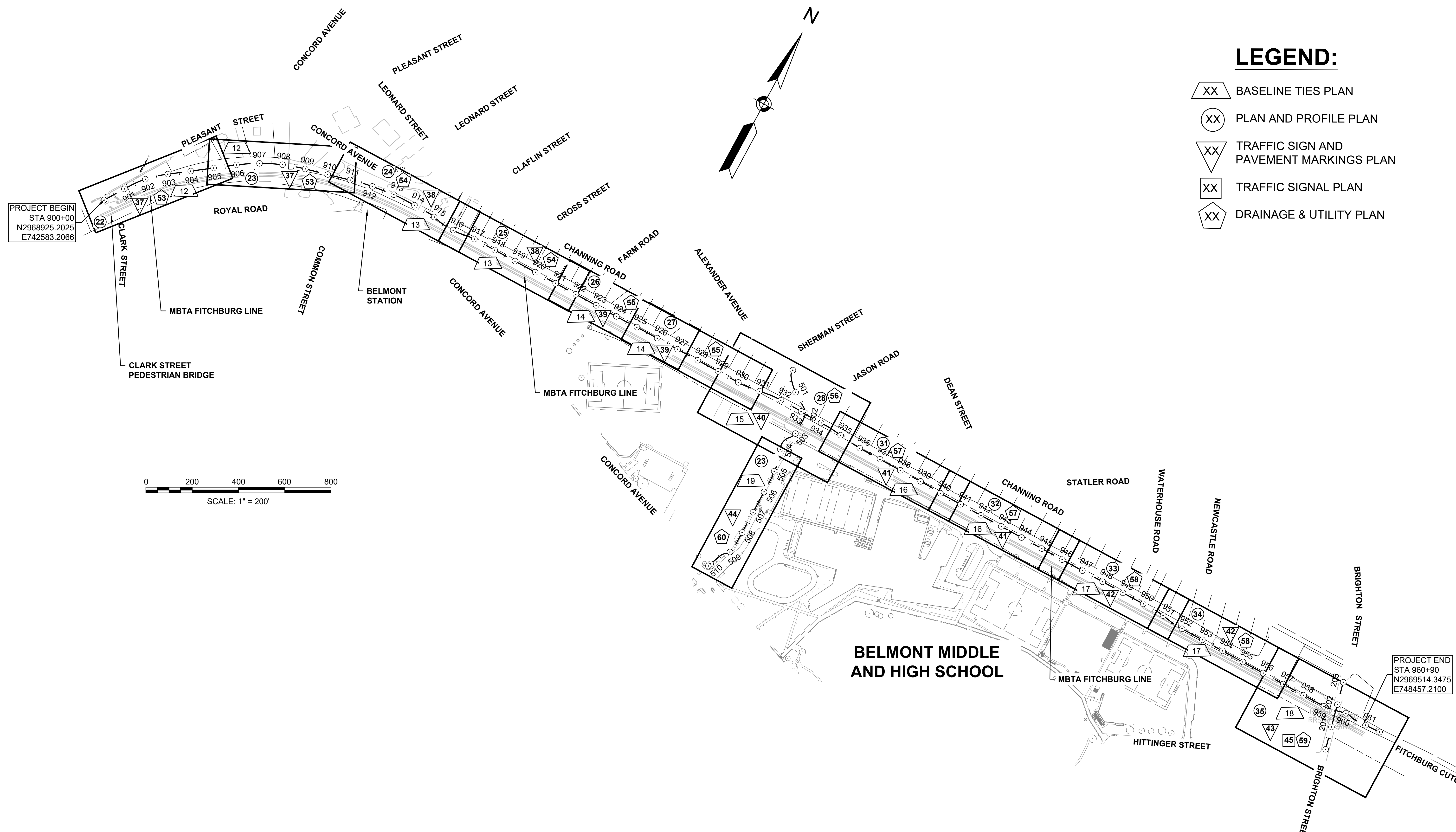
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	4	157
PROJECT FILE NO. 609204			

KEY PLAN

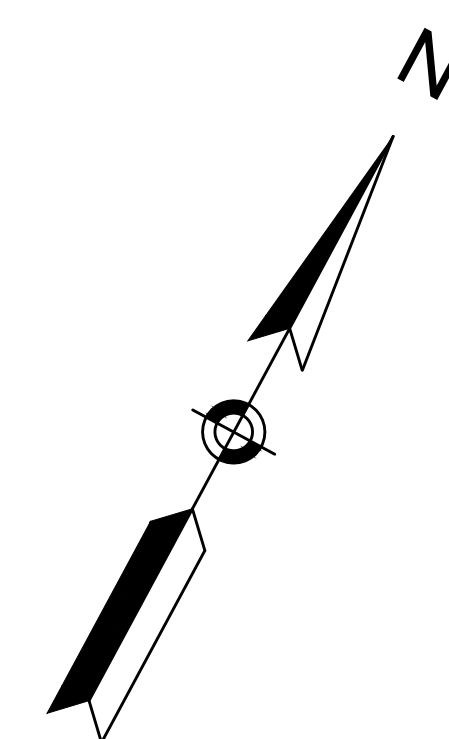
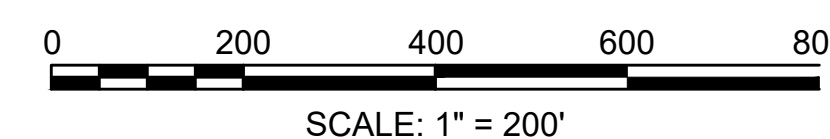
**LEGEND:**

- XX BASELINE TIES PLAN
- XX PLAN AND PROFILE PLAN
- ▽ TRAFFIC SIGN AND PAVEMENT MARKINGS PLAN
- XX TRAFFIC SIGNAL PLAN
- XX DRAINAGE & UTILITY PLAN



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

PROJECT END  
STA 960+90  
N2969514.3475  
E748457.2100



**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	5	157
PROJECT FILE NO.		609204	

**TYPICAL SECTIONS & PAVEMENT NOTES**

**PAVEMENT NOTES:**

PROPOSED HMA SHARED USE PATH

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

SUBBASE: 8" GRAVEL BORROW, TYPE b\*

PROPOSED HMA SIDEWALK

SURFACE: 3" HOT MIX ASPHALT PLACED IN TWO LIFTS:  
(1.25" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER  
1.75" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)

SUBBASE: 8" GRAVEL BORROW, TYPE b\*

PROPOSED CEMENT CONCRETE SIDEWALK/WCR/ISLAND

SURFACE: 4" CEMENT CONCRETE SIDEWALK (4000 PSI, 3/4", 610)

SUBBASE: 8" GRAVEL BORROW, TYPE b\*

PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE: 4" HOT MIX ASPHALT PLACED IN TWO LIFTS:  
(1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER  
2.50" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5)

SUBBASE: 8" GRAVEL BORROW, TYPE b\*

PROPOSED CEMENT CONCRETE SIDEWALK AT DRIVEWAY

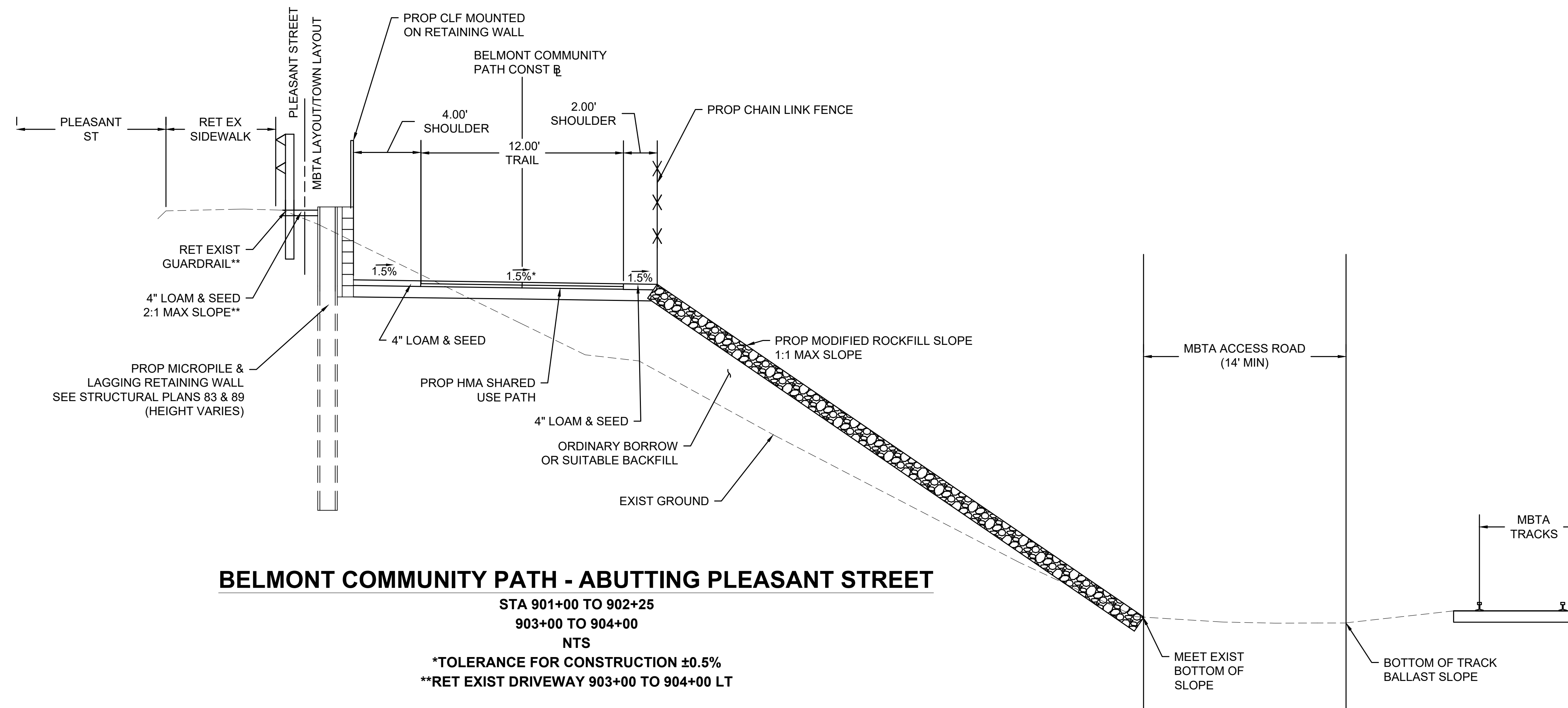
SURFACE: 6" CEMENT CONCRETE SIDEWALK (4000 PSI, 3/4", 610)

SUBBASE: 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 HIGHWAYS 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.



**BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET**

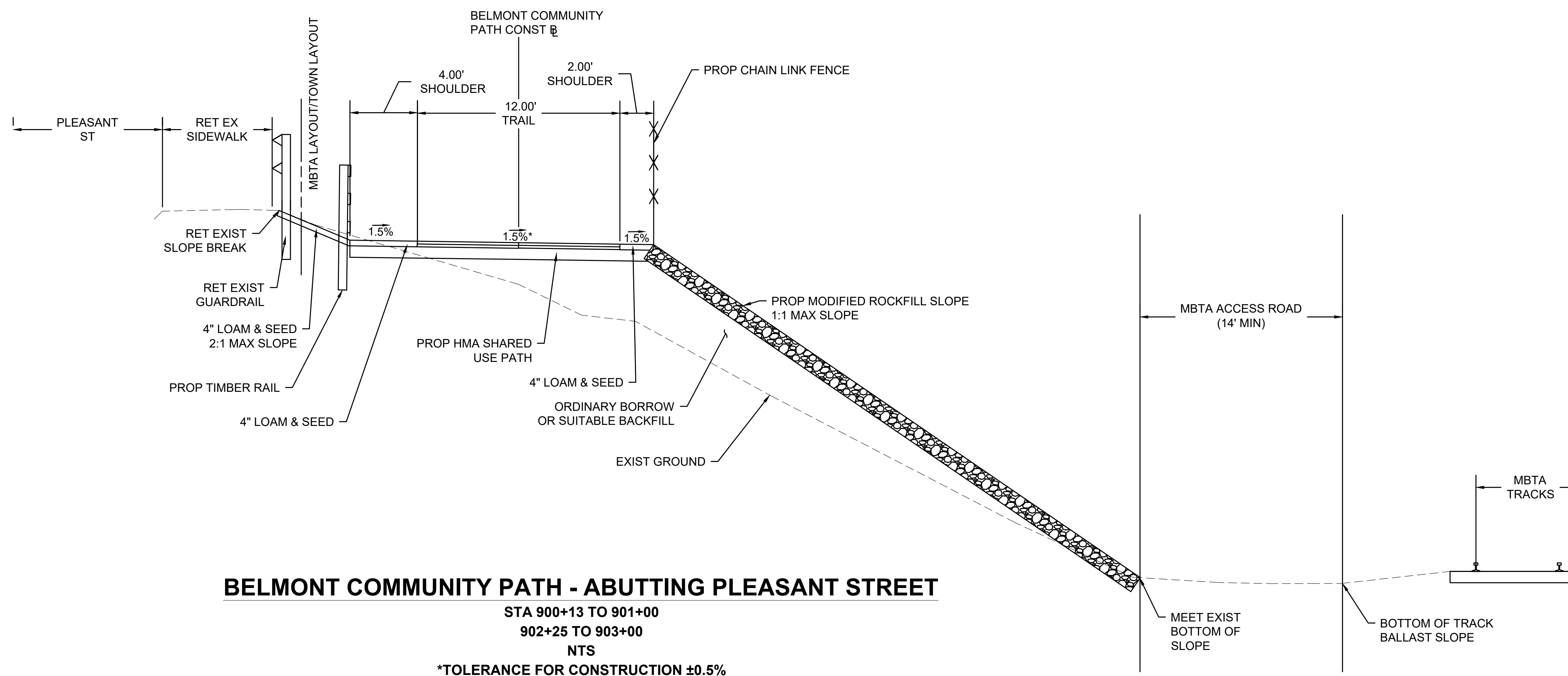
STA 901+00 TO 902+25

903+00 TO 904+00

NTS

\*TOLERANCE FOR CONSTRUCTION ±0.5%

\*\*RET EXIST DRIVEWAY 903+00 TO 904+00 LT



**BELMONT COMMUNITY PATH - ABUTTING PLEASANT STREET**

STA 900+13 TO 901+00

902+25 TO 903+00

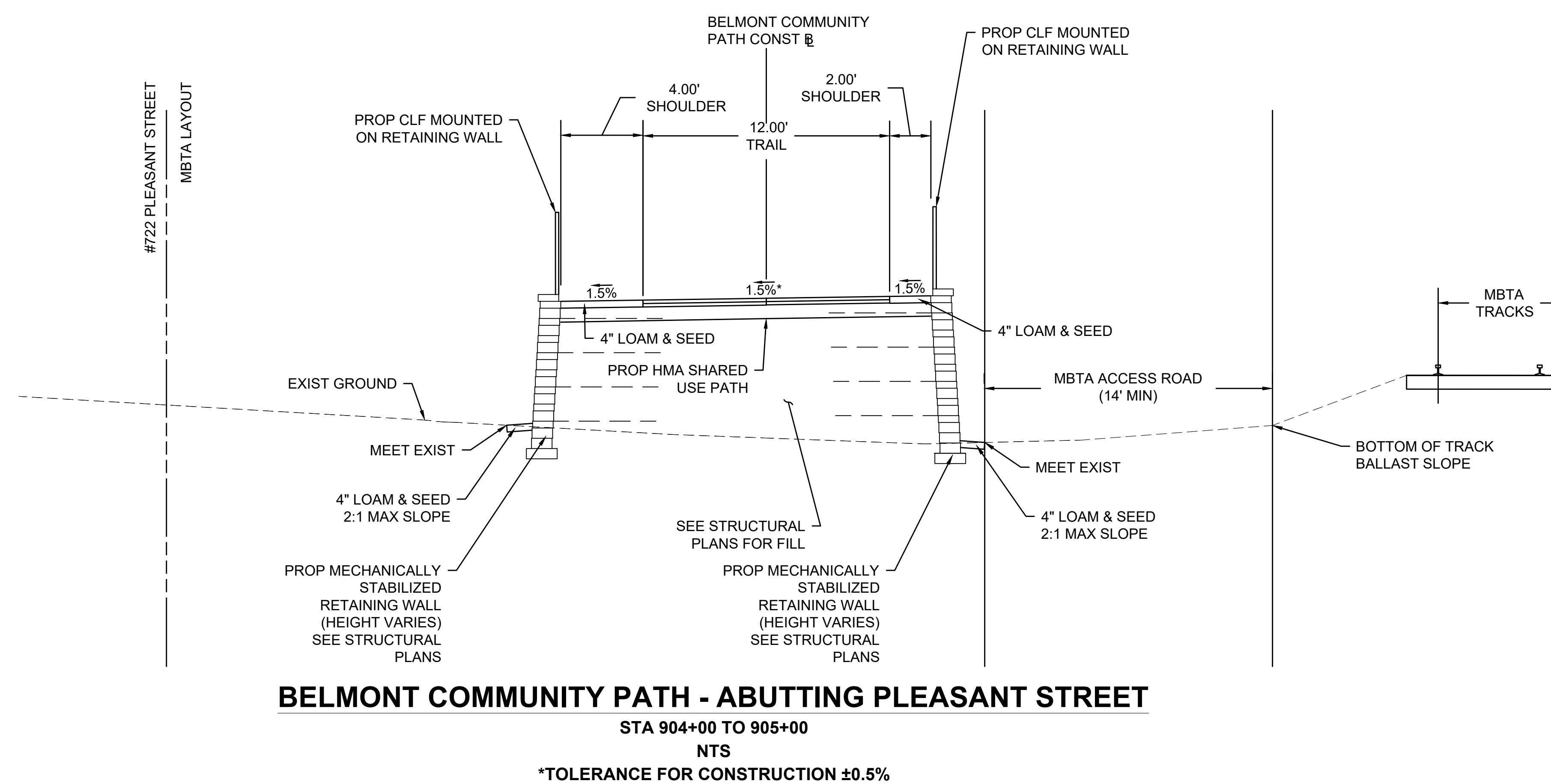
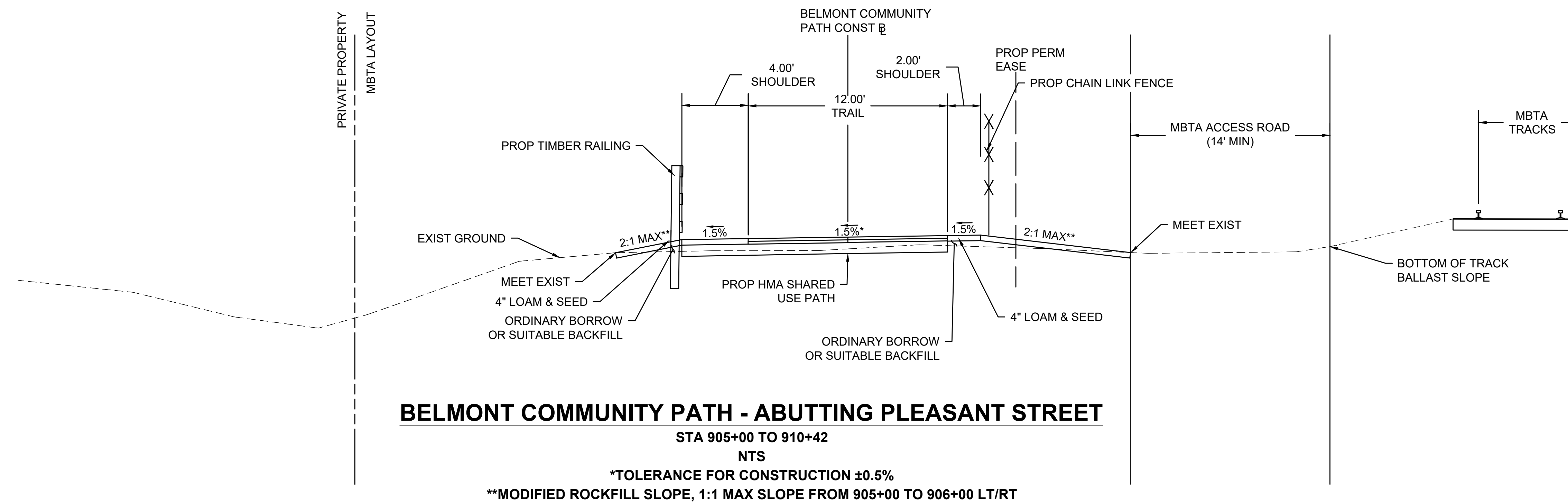
NTS

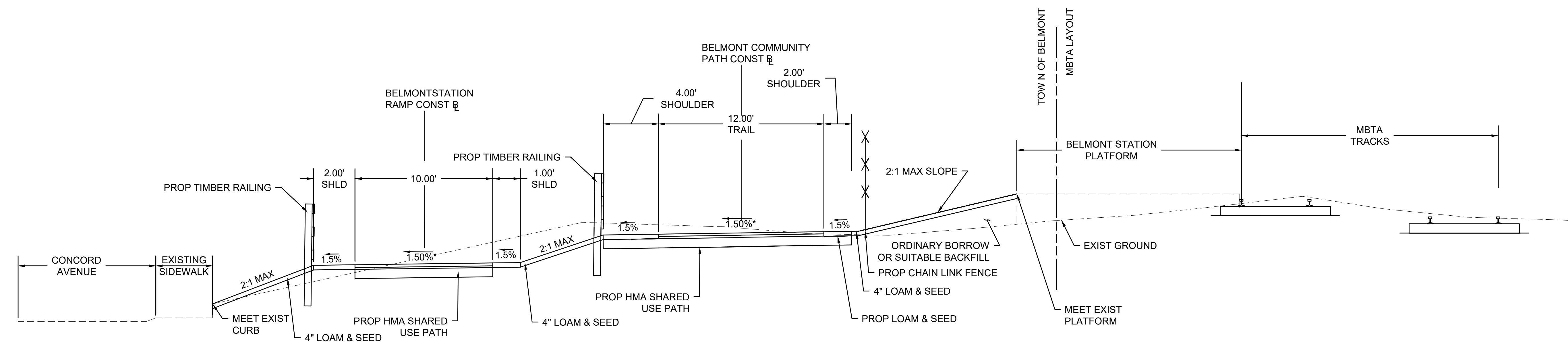
\*TOLERANCE FOR CONSTRUCTION ±0.5%

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

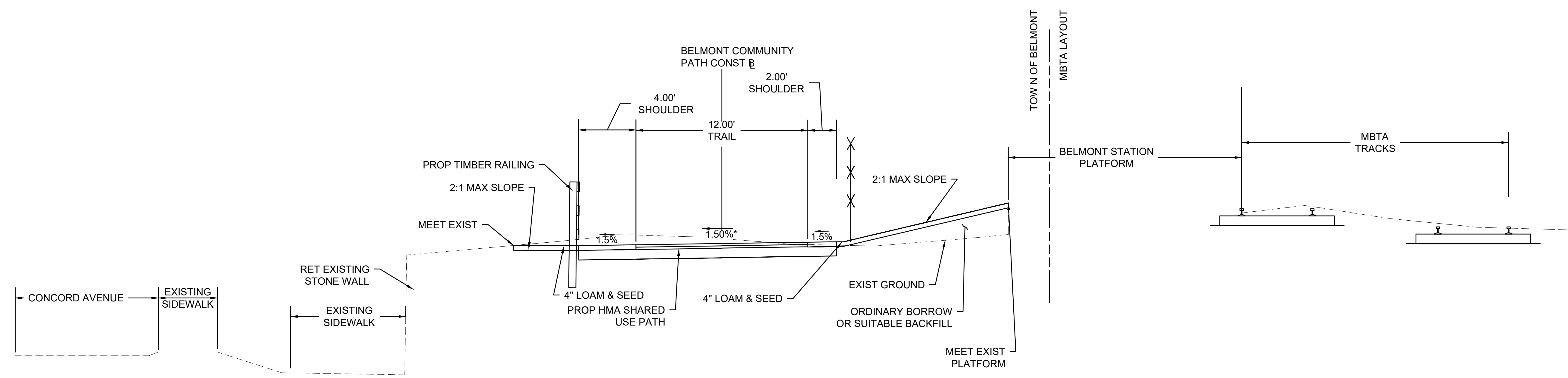
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	6	157
PROJECT FILE NO.		609204	

**TYPICAL SECTIONS & PAVEMENT NOTES**





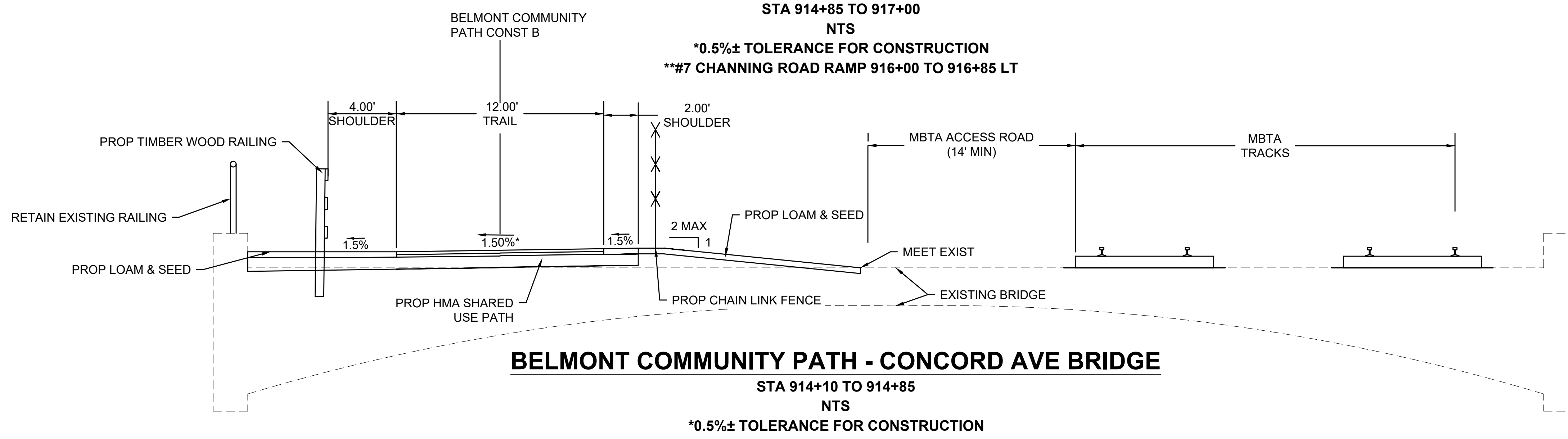
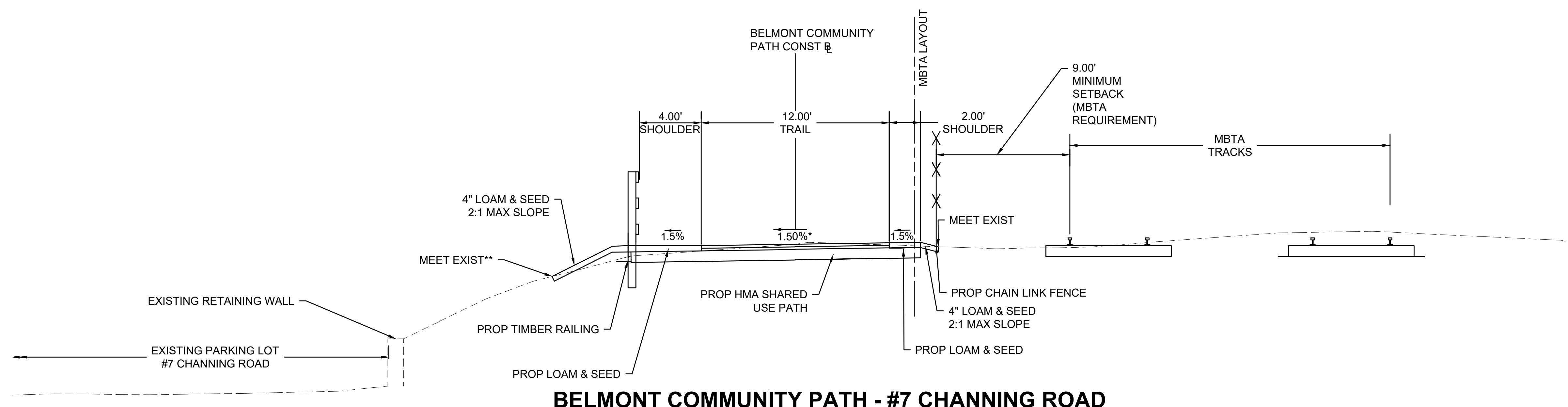
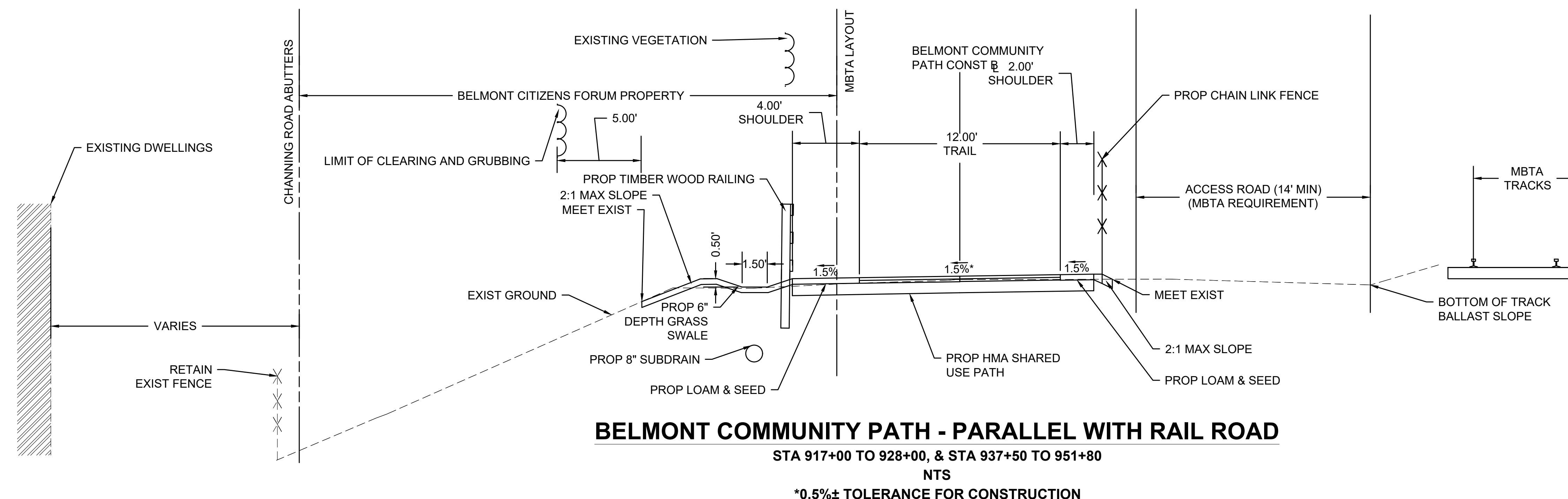
**BELMONT COMMUNITY PATH - BELMONT STATION**  
 STA 912+50 TO 914+10  
 NTS  
 \*0.5%± TOLERANCE FOR CONSTRUCTION



**BELMONT COMMUNITY PATH - BELMONT STATION**  
 STA 910+42 TO 912+50  
 NTS  
 \*0.5%± TOLERANCE FOR CONSTRUCTION

Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(TYPSECT).dwg 11/1/2021 2:37 PM

609204\_HD(TYPSECT).DWG Plotted on Nov-21 2:37 PM



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(TYPSECT).dwg 11/1/2021 2:37 PM

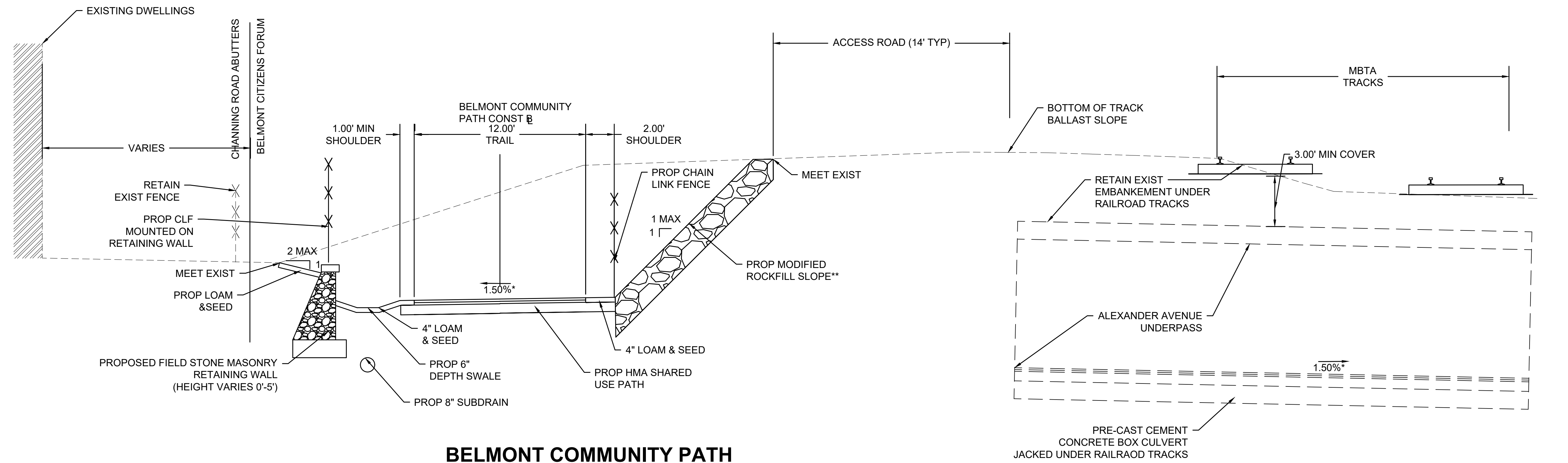
609204\_HD(TYPSECT).DWG Plotted on Nov-21 2:37 PM



**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	9	157
PROJECT FILE NO.		609204	

**TYPICAL SECTIONS & PAVEMENT NOTES**



**BELMONT COMMUNITY PATH**

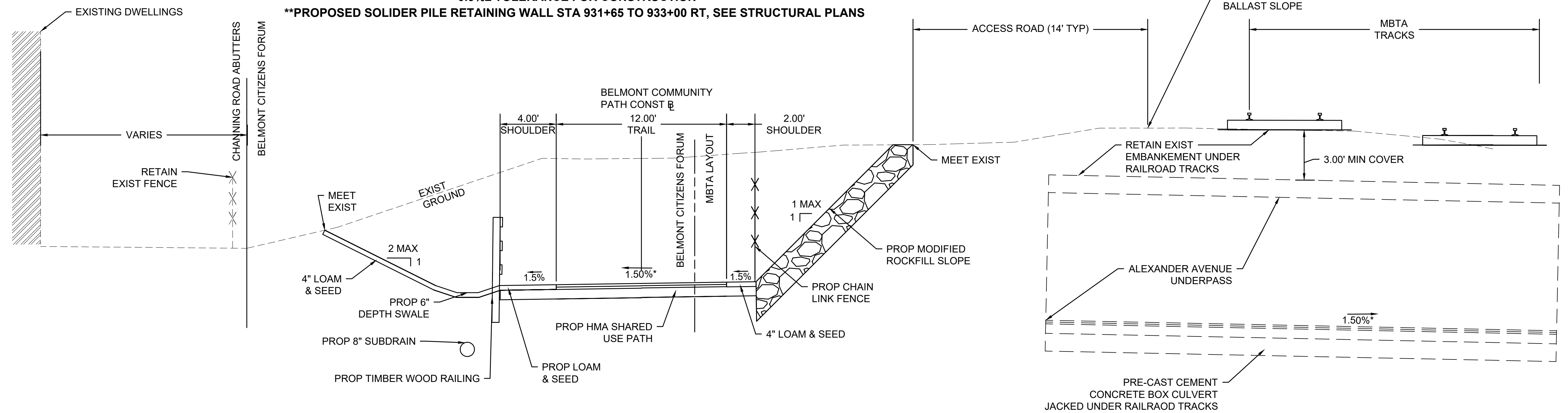
STA 931+42 TO 933+00

STA 933+65 TO 935+15

NTS

\*0.5%± TOLERANCE FOR CONSTRUCTION

**\*\*PROPOSED SOLIDER PILE RETAINING WALL STA 931+65 TO 933+00 RT, SEE STRUCTURAL PLANS**



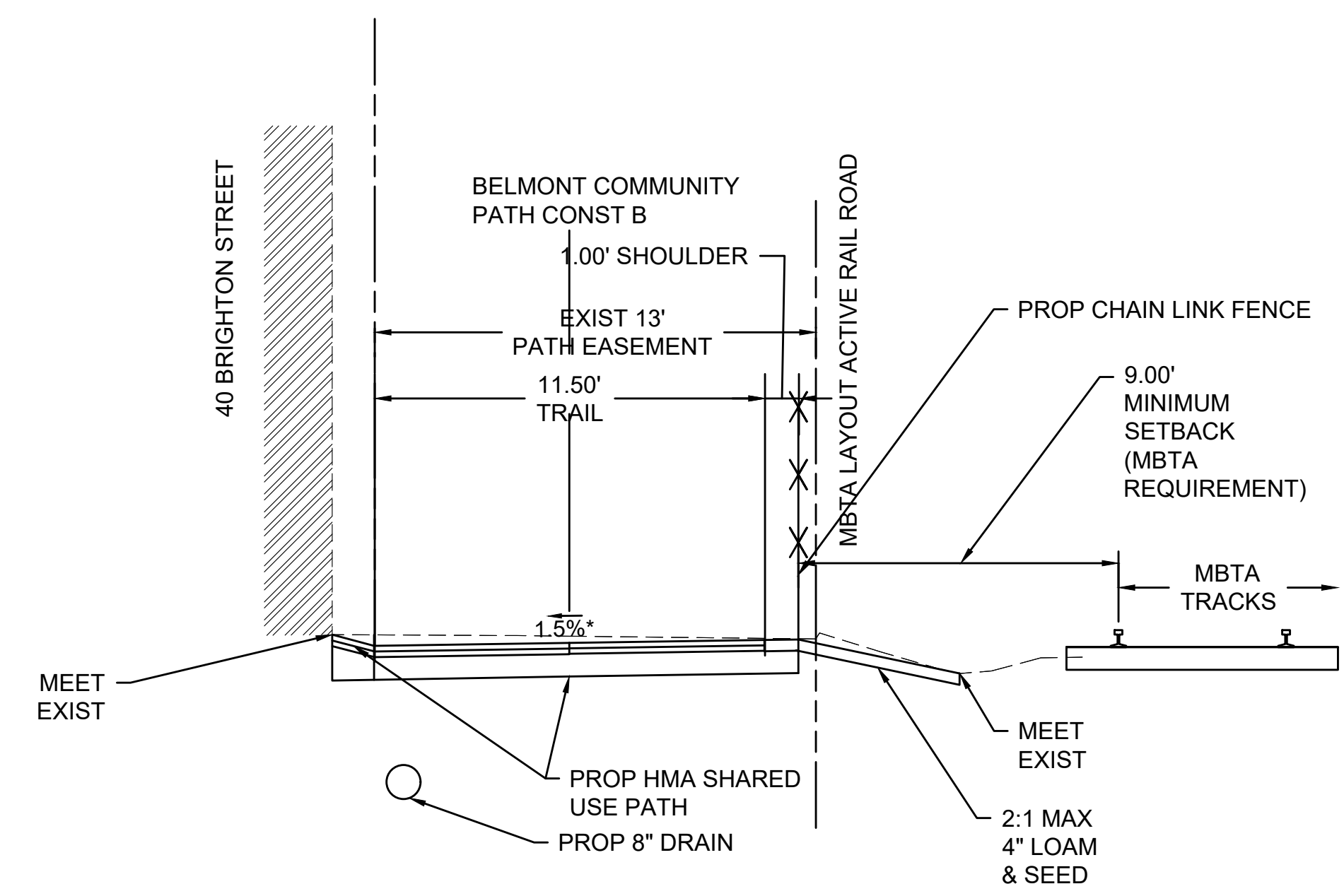
**BELMONT COMMUNITY PATH**

STA 928+00 TO 931+00

STA 935+015 TO 937+50

NTS

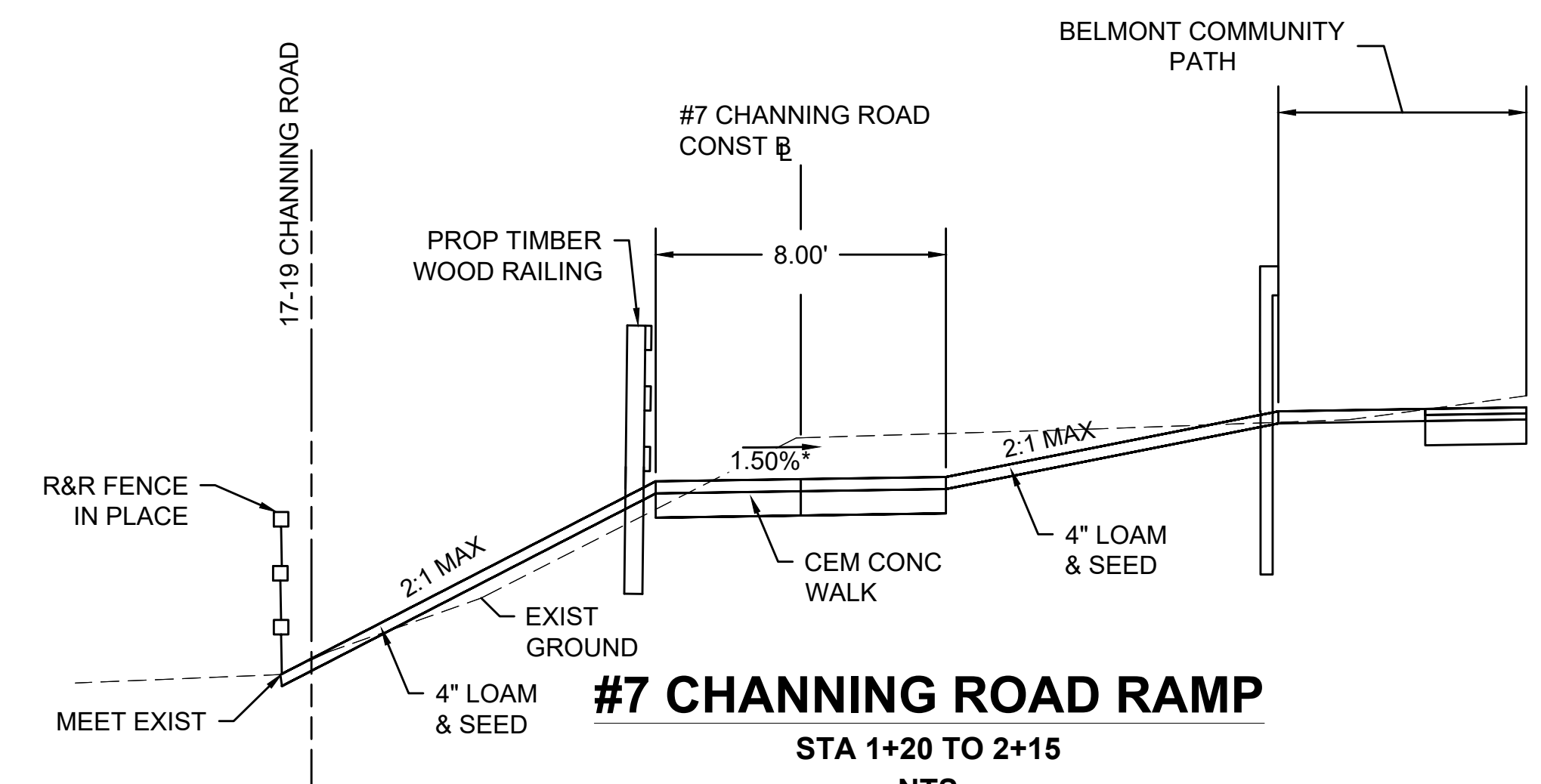
\*0.5%± TOLERANCE FOR CONSTRUCTION



**BELMONT COMMUNITY PATH - 40 BRIGHTON STREET ABUTTING BUILDING**

STA 955+69.68 TO 956+57.04  
NTS

\*0.5%± TOLERANCE FOR CONSTRUCTION

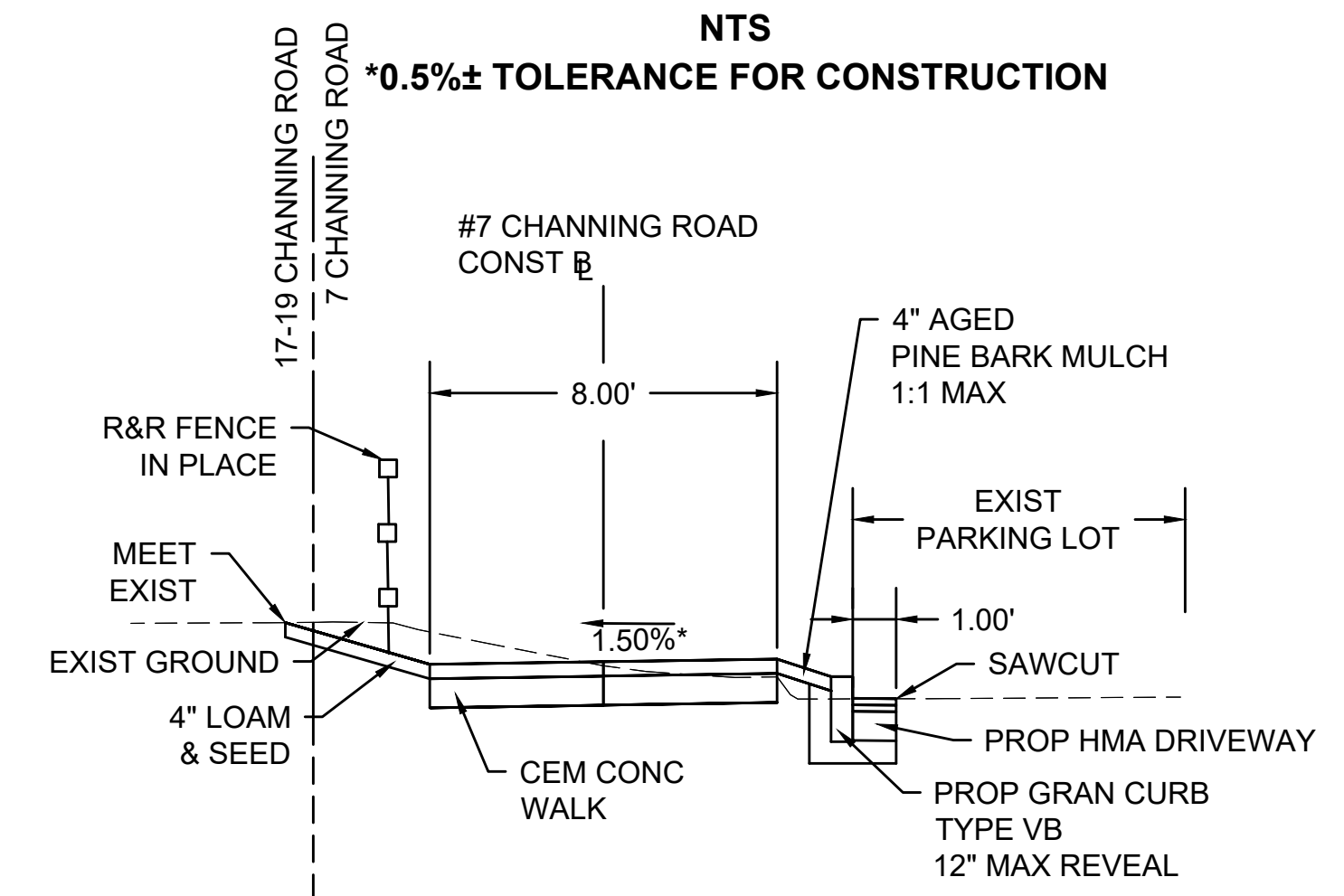


**#7 CHANNING ROAD RAMP**

STA 1+20 TO 2+15

NTS

\*0.5%± TOLERANCE FOR CONSTRUCTION

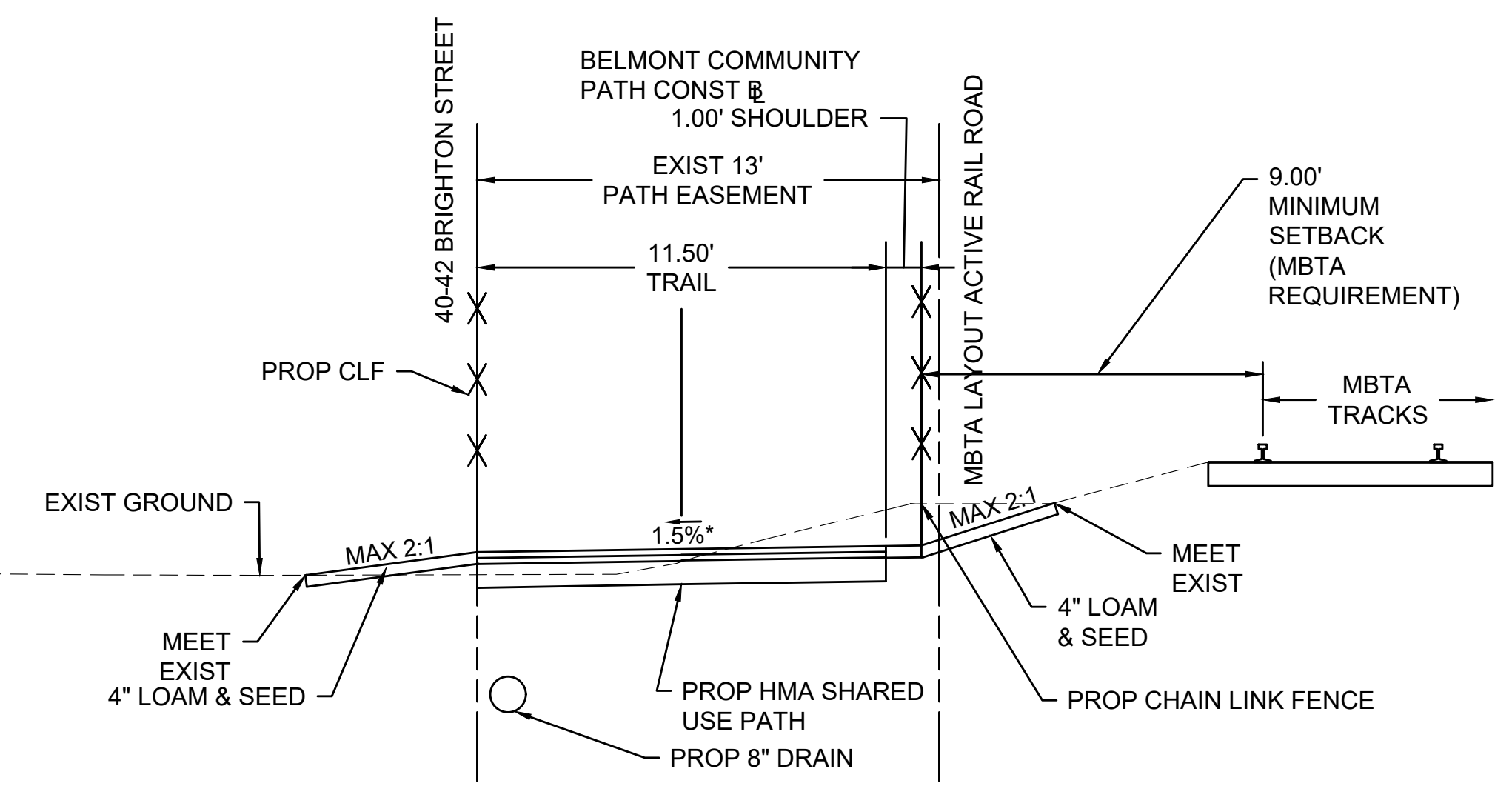


**#7 CHANNING ROAD RAMP**

STA 0+00 TO 1+20

NTS

\*0.5%± TOLERANCE FOR CONSTRUCTION

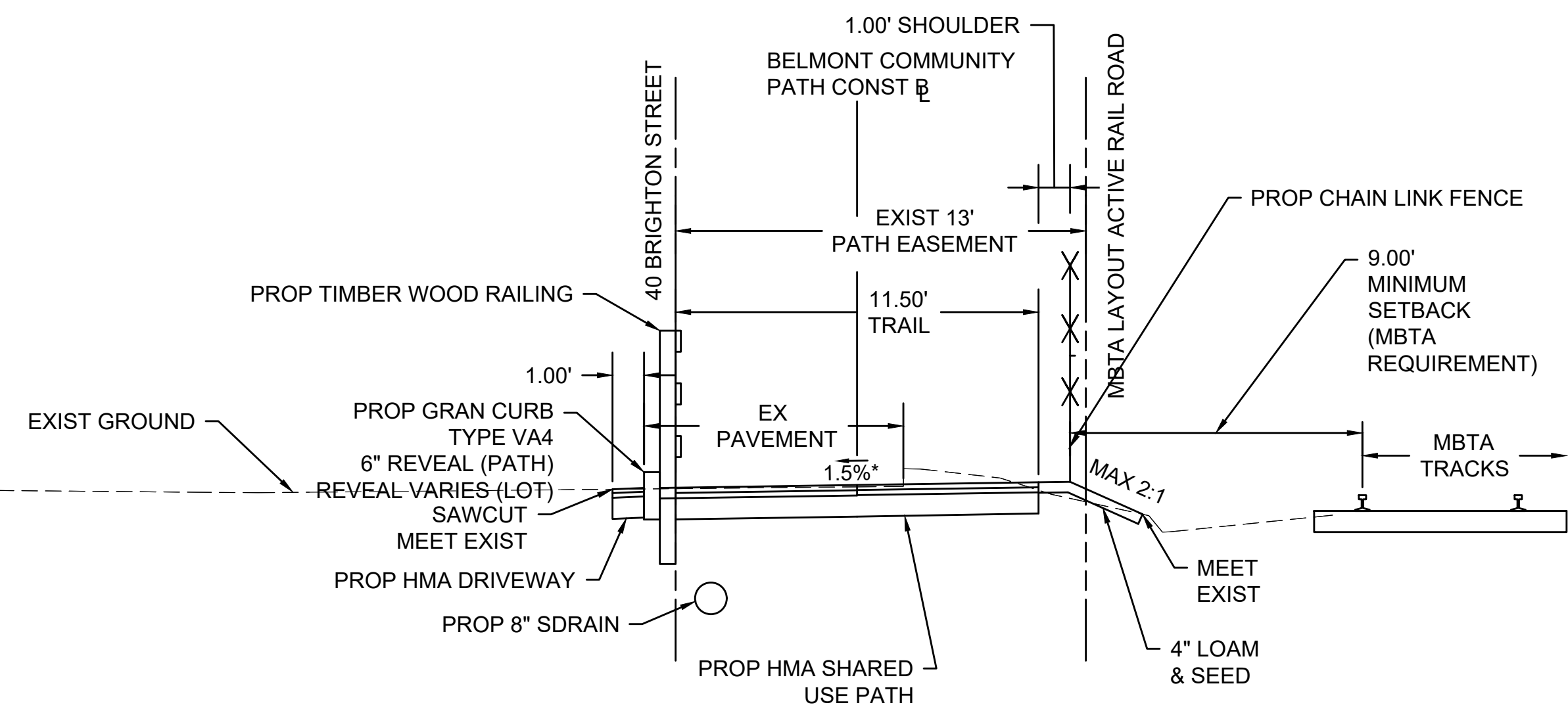


**BELMONT COMMUNITY PATH - 40 BRIGHTON STREET**

STA 951+80 TO 955+69.68

NTS

\*0.5%± TOLERANCE FOR CONSTRUCTION



**BELMONT COMMUNITY PATH - 40 BRIGHTON STREET ABUTTING PARKING**

STA 956+57.04 TO 959+33

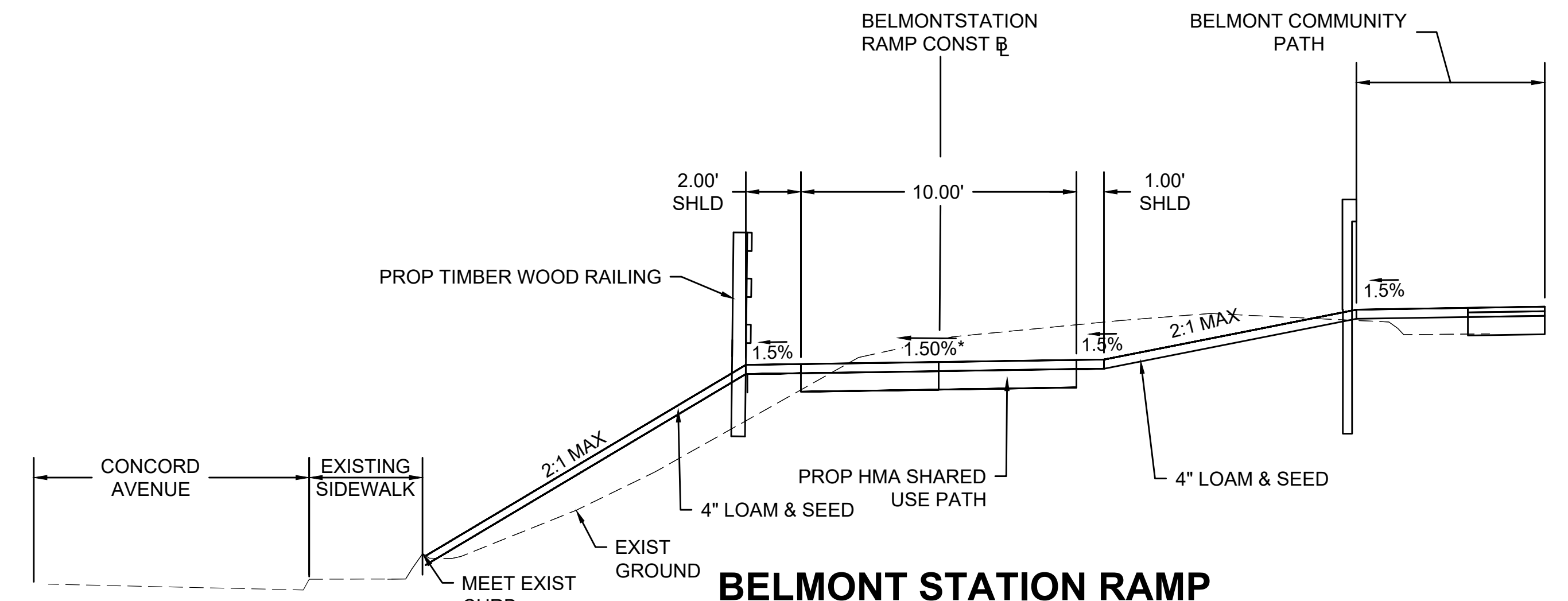
NTS

\*0.5%± TOLERANCE FOR CONSTRUCTION

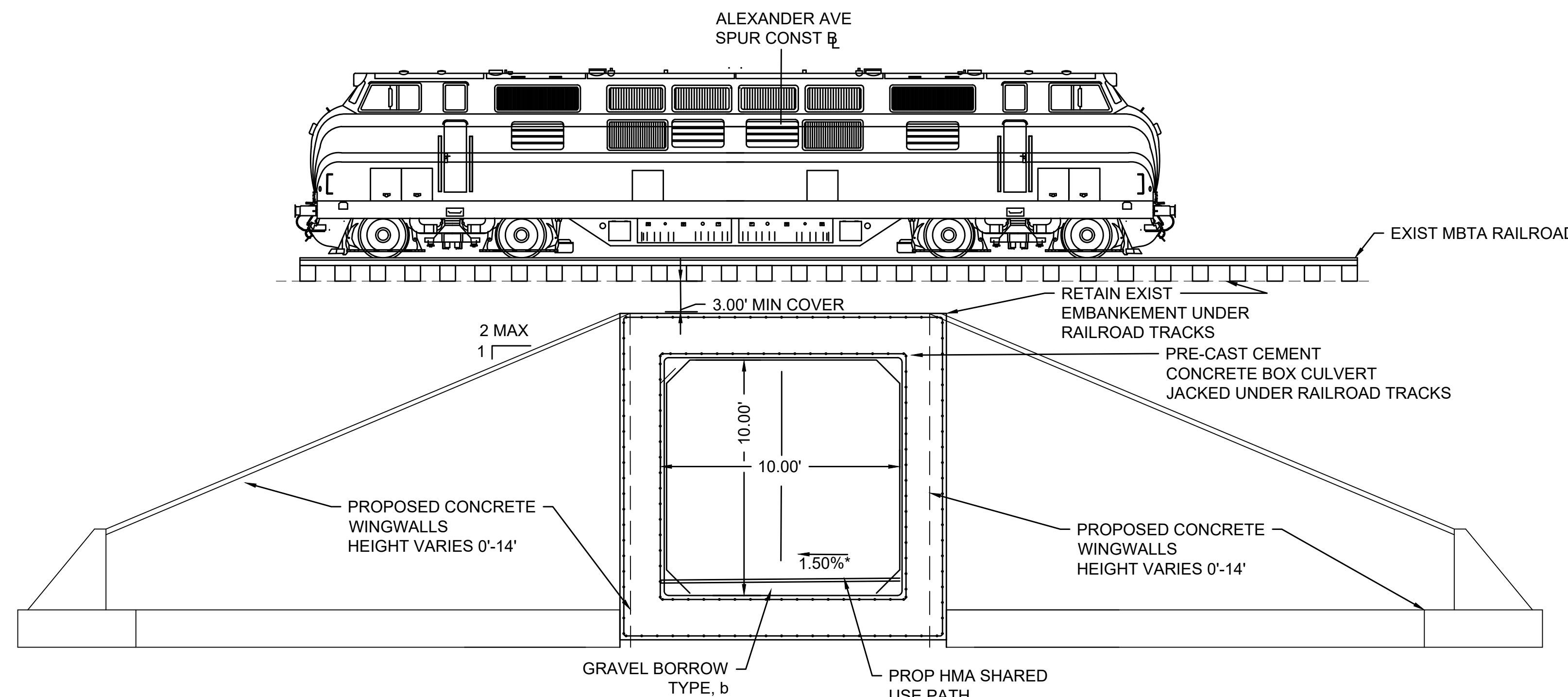
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	11	157
PROJECT FILE NO. 609204			

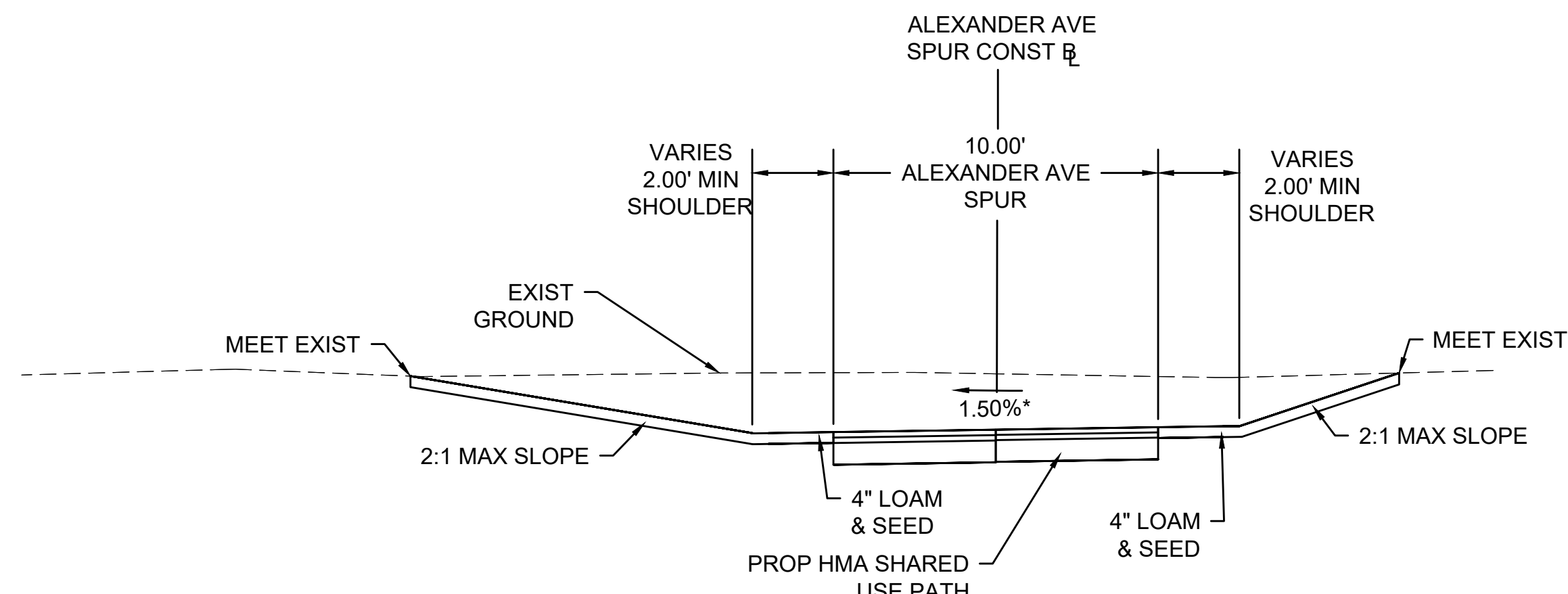
**TYPICAL SECTIONS & PAVEMENT NOTES**



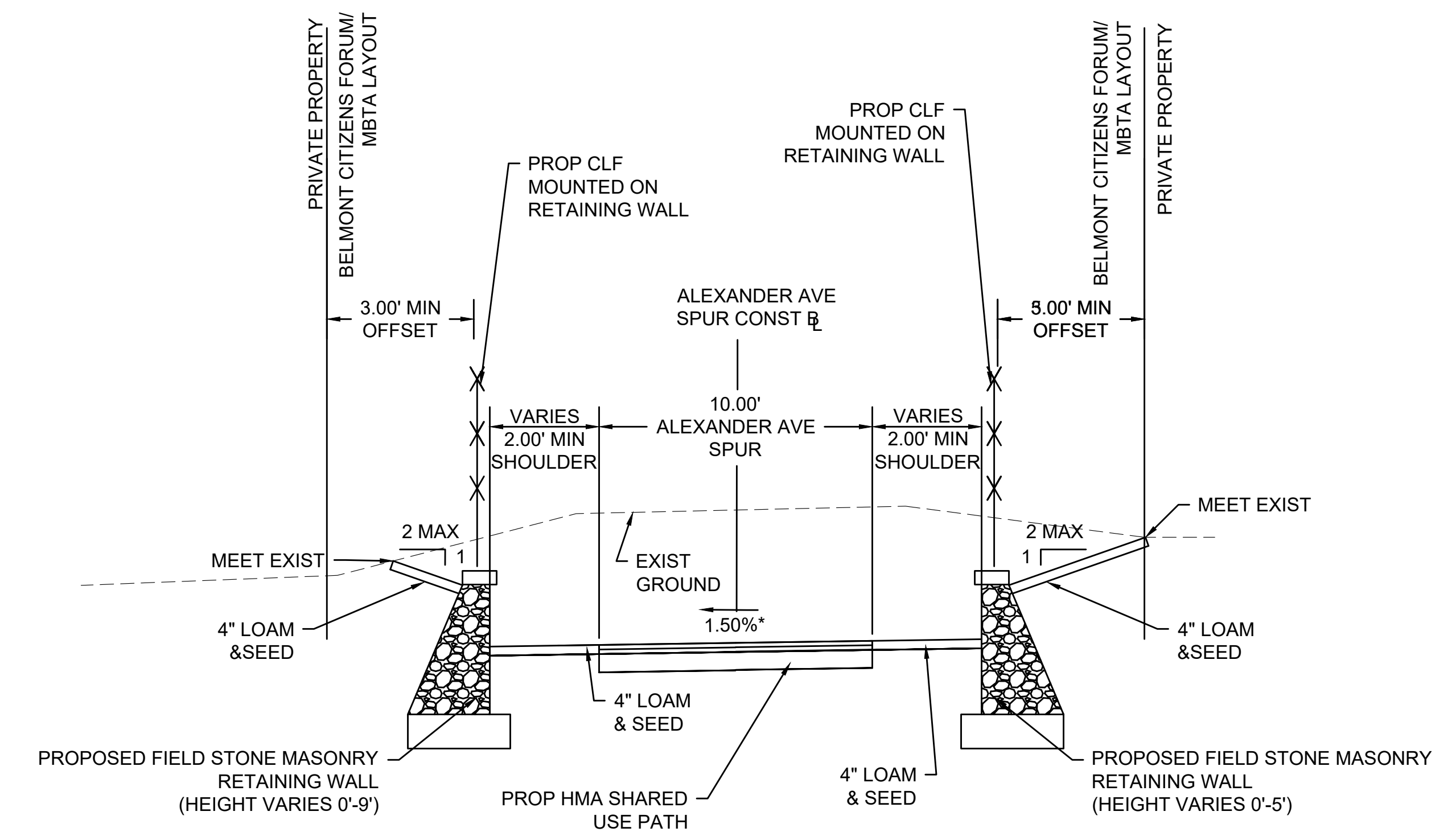
**BELMONT STATION RAMP**  
STA 50+00 TO 51+50  
NTS  
\*0.5%± TOLERANCE FOR CONSTRUCTION



**ALEXANDER AVENUE SPUR - UNDERPASS SECTION**  
502+15 TO 502+85  
\*0.5%± TOLERANCE FOR CONSTRUCTION



**ALEXANDER AVENUE SPUR**  
501+25 TO 502+15  
502+85 TO 504+05  
\*0.5%± TOLERANCE FOR CONSTRUCTION



**ALEXANDER AVENUE SPUR**  
501+25 TO 502+15  
502+85 TO 504+05  
\*0.5%± TOLERANCE FOR CONSTRUCTION

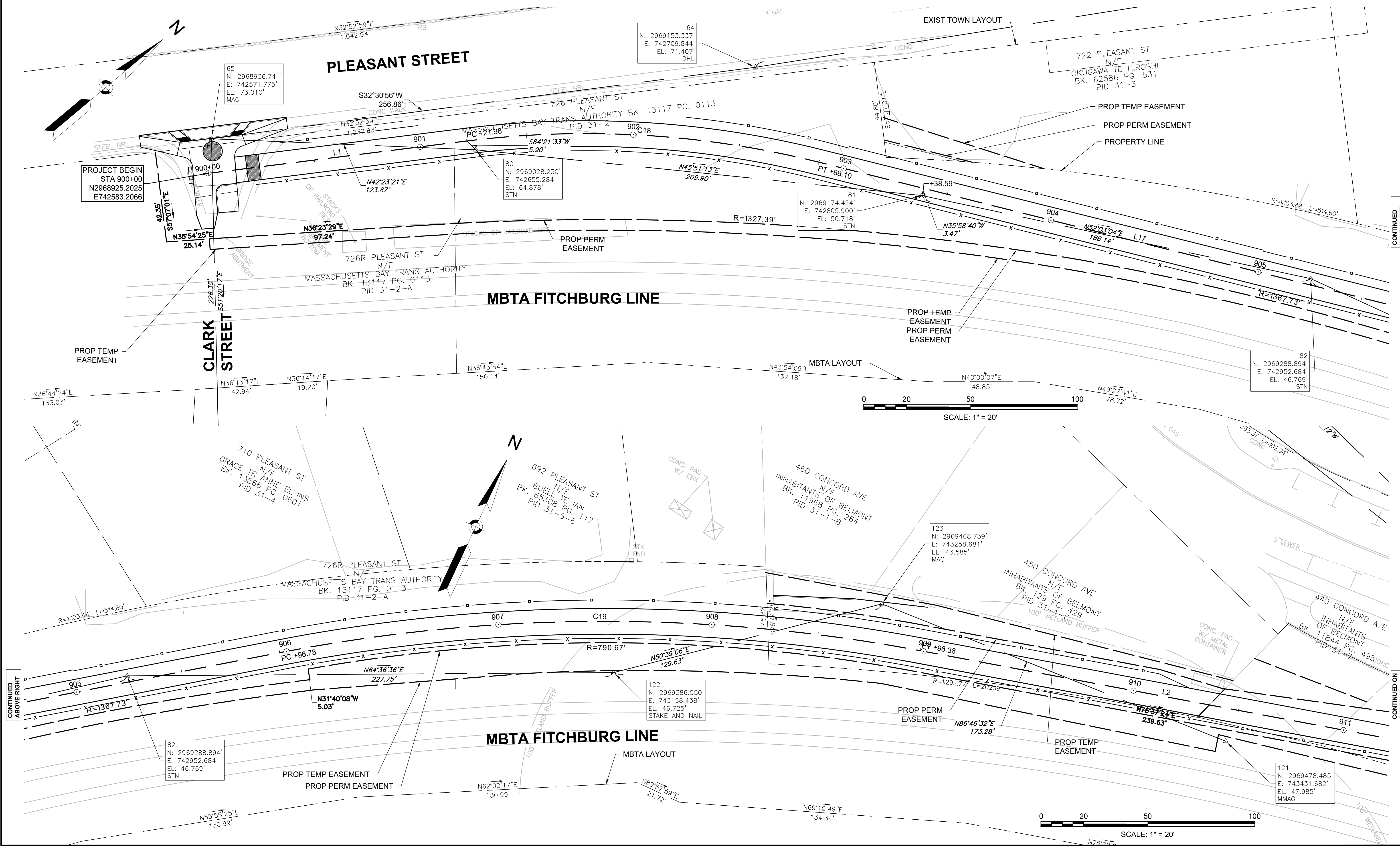
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	12	157

PROJECT FILE NO. 609204

**BASELINE TIES PLAN**

Nitch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(BASELINE\_TIE).dwg



CONTINUED BELOW LEFT

CONTINUED ON SHEET NO. 13

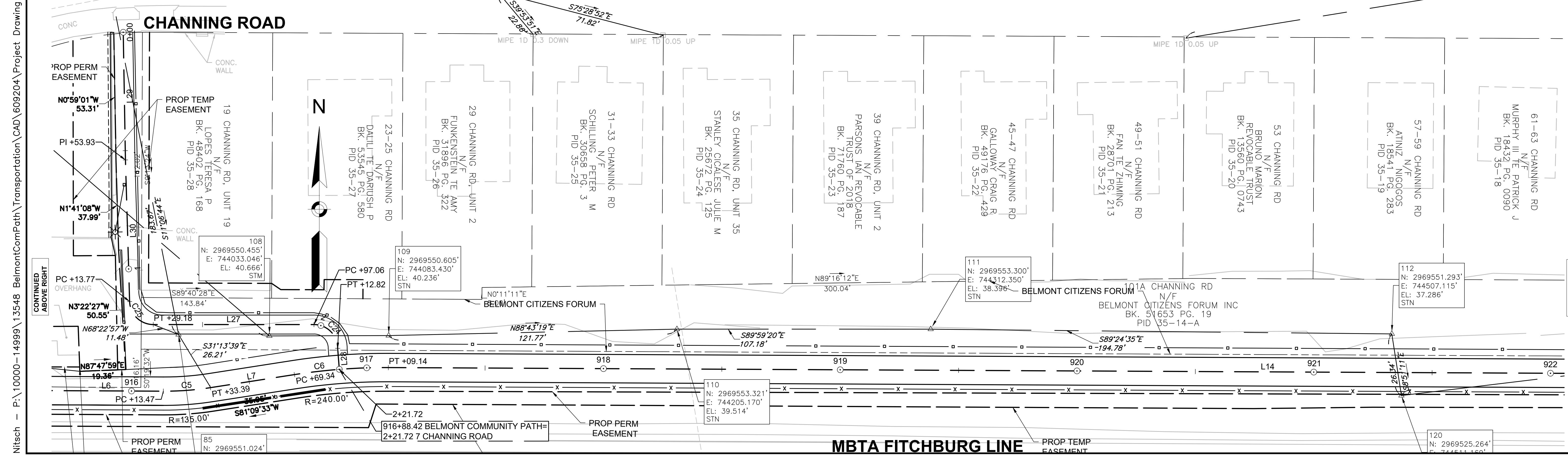
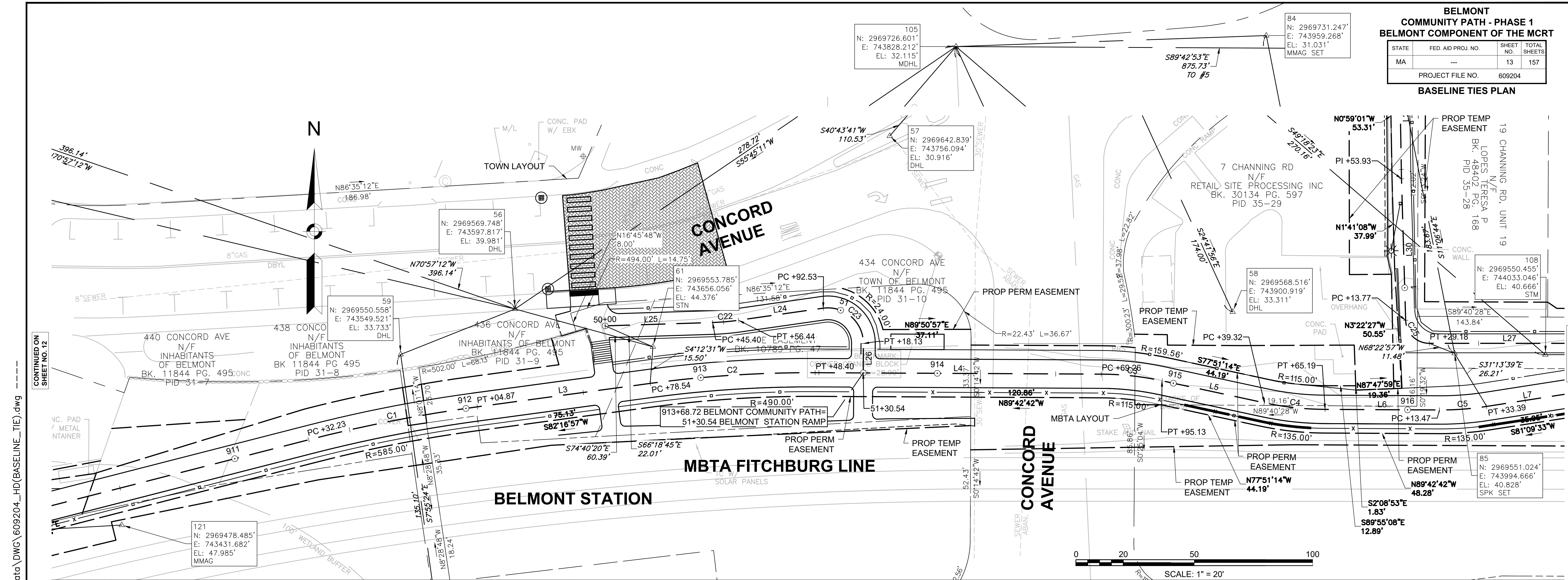
609204\_HD(BASELINE\_TIE).DWG

**BELMONT COMMUNITY PATH - PHASE 1 BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA		13	157

PROJECT FILE NO. 609204

**BASELINE TIES PLAN**



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(BASELINE\_TIE).dwg

CONTINUED ON SHEET NO. 12

CONTINUED BELOW LEFT

CONTINUED ABOVE RIGHT

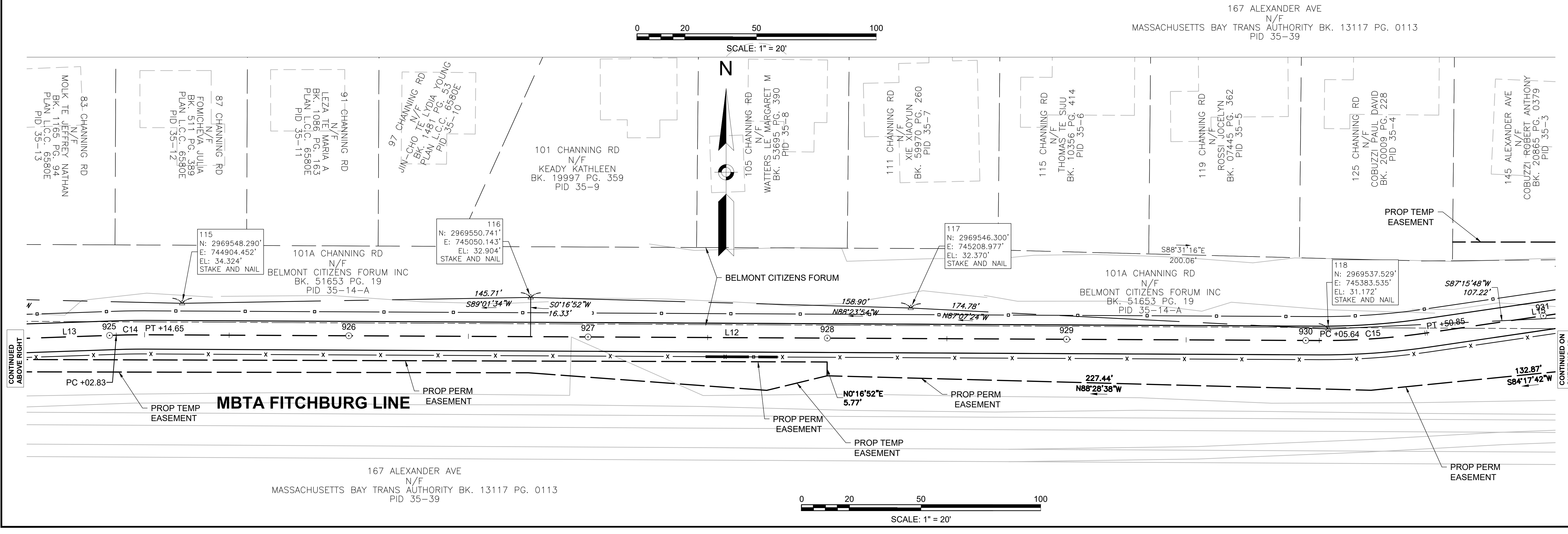
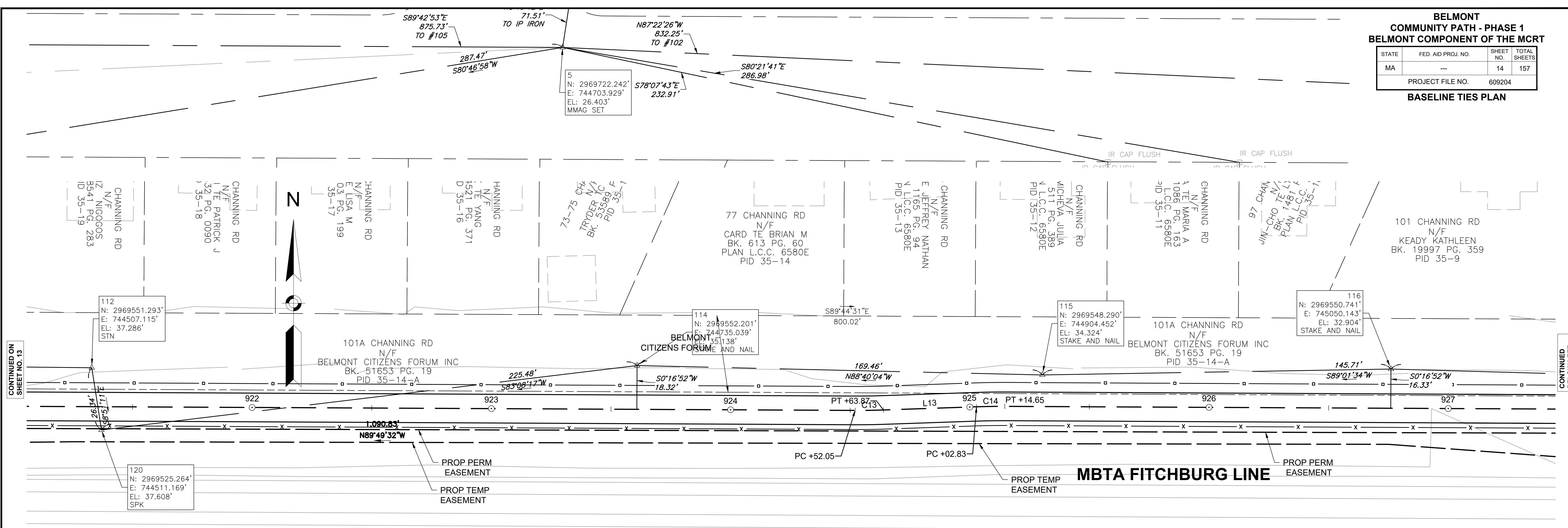
CONTINUED ON SHEET NO. 14

609204\_HD(BASELINE\_TIE).DWG

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	14	157

PROJECT FILE NO. 609204  
**BASELINE TIES PLAN**



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(BASELINE\_TIE).dwg

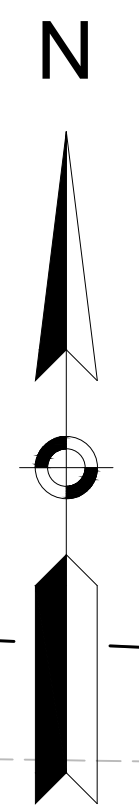
609204\_HD(BASELINE\_TIE).DWG

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	15	157

PROJECT FILE NO. 609204

**BASELINE TIES PLAN**

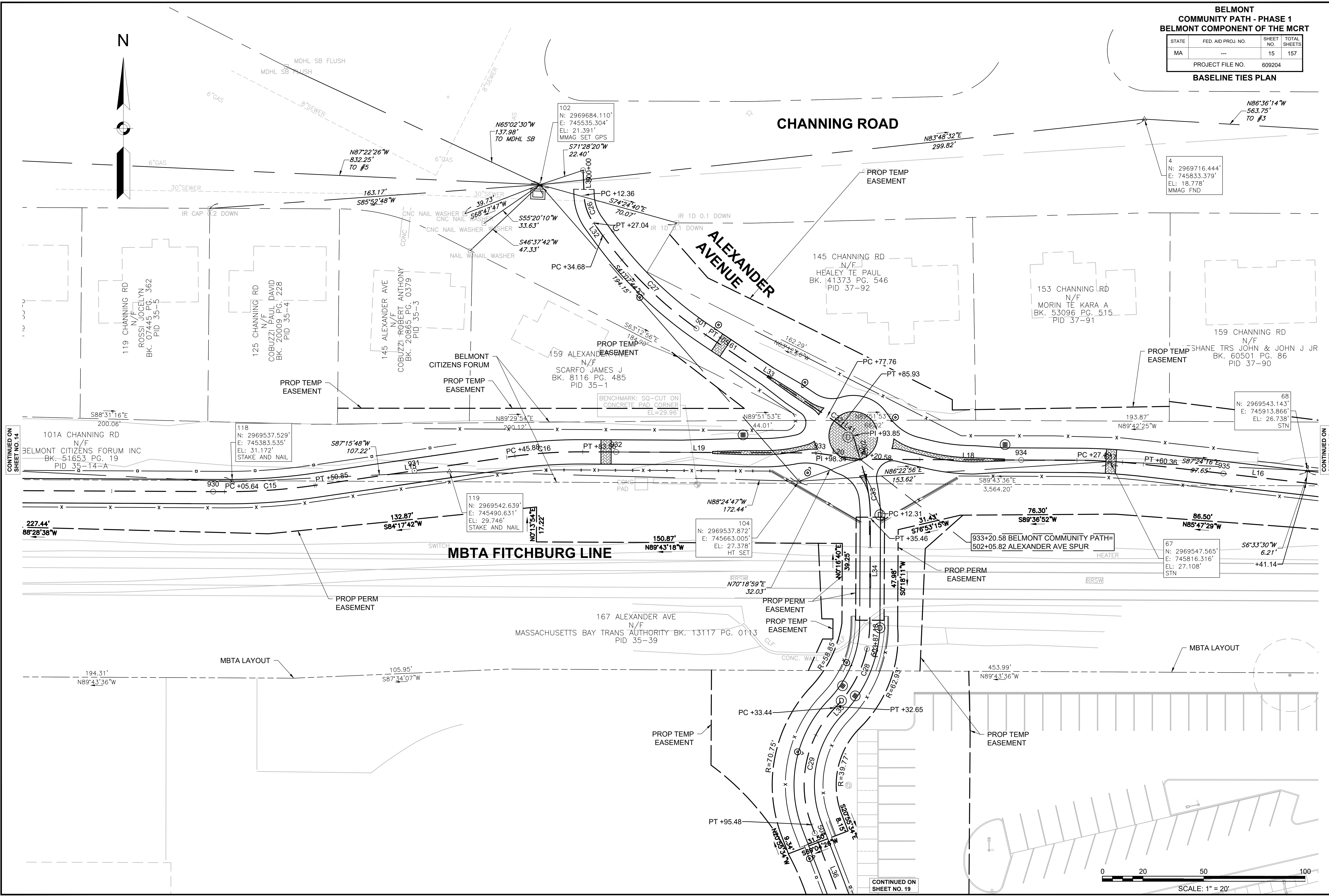


**CHANNING ROAD**

**ALEXANDER AVENUE**

**MBTA FITCHBURG LINE**

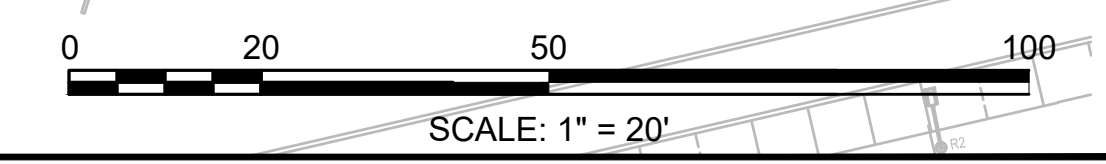
Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(BASELINE\_TIE).dwg -----



CONTINUED ON  
SHEET NO. 14

CONTINUED ON  
SHEET NO. 16

CONTINUED ON  
SHEET NO. 19



609204\_HD(BASELINE\_TIE).DWG Plotted on -----

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

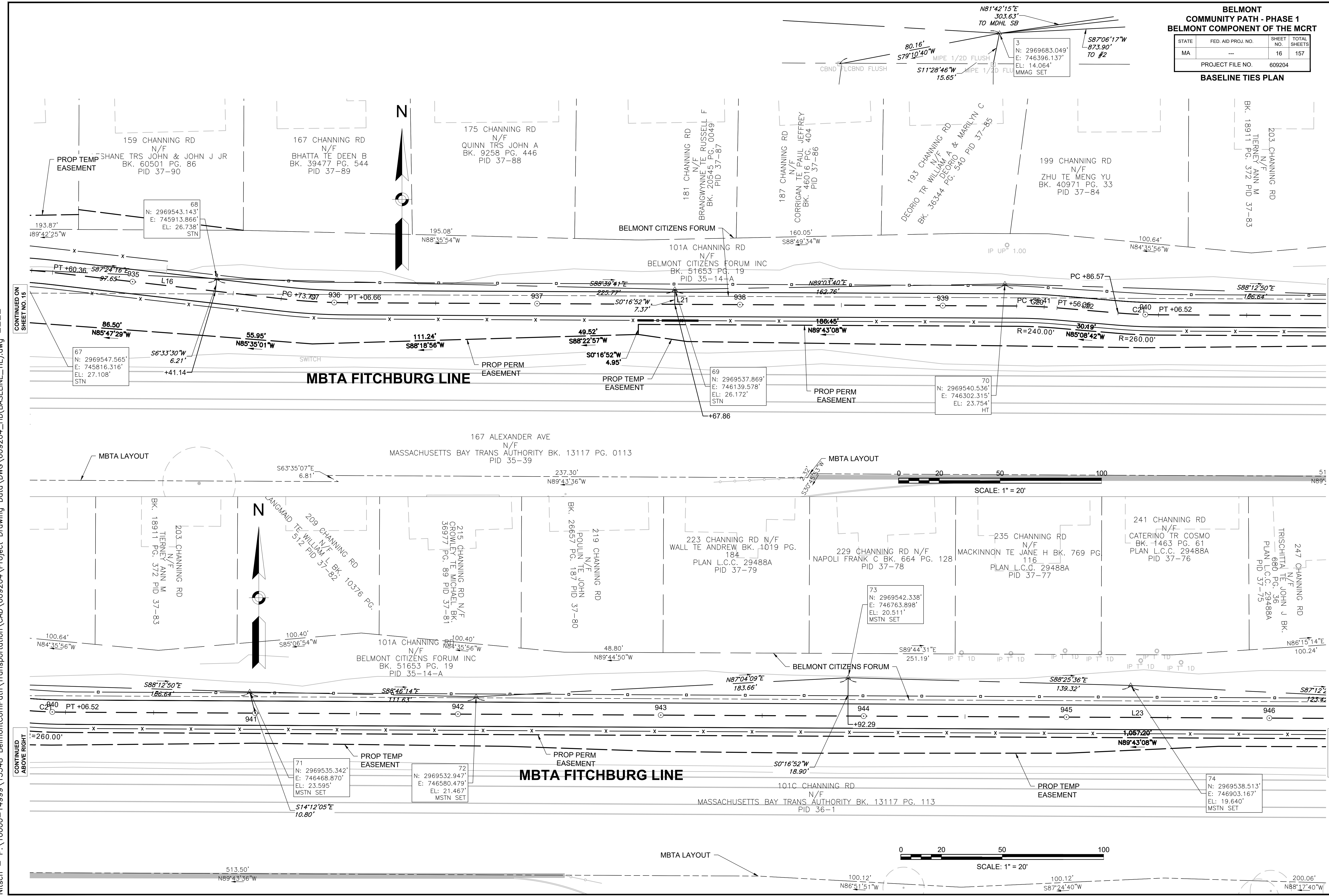
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	16	157

PROJECT FILE NO. 609204

**BASELINE TIES PLAN**

Nitch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(BASELINE\_TIE).dwg

Plotted on 609204\_HD(BASELINE\_TIE).DWG



CONTINUED ON  
SHEET NO. 15

CONTINUED  
BELOW LEFT

CONTINUED  
ABOVE RIGHT

CONTINUED ON  
SHEET NO. 17



P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(BASELINE\_TIE).dwg

**BELMONT COMMUNITY PATH - PHASE 1**  
**BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	17	157

PROJECT FILE NO. 609204

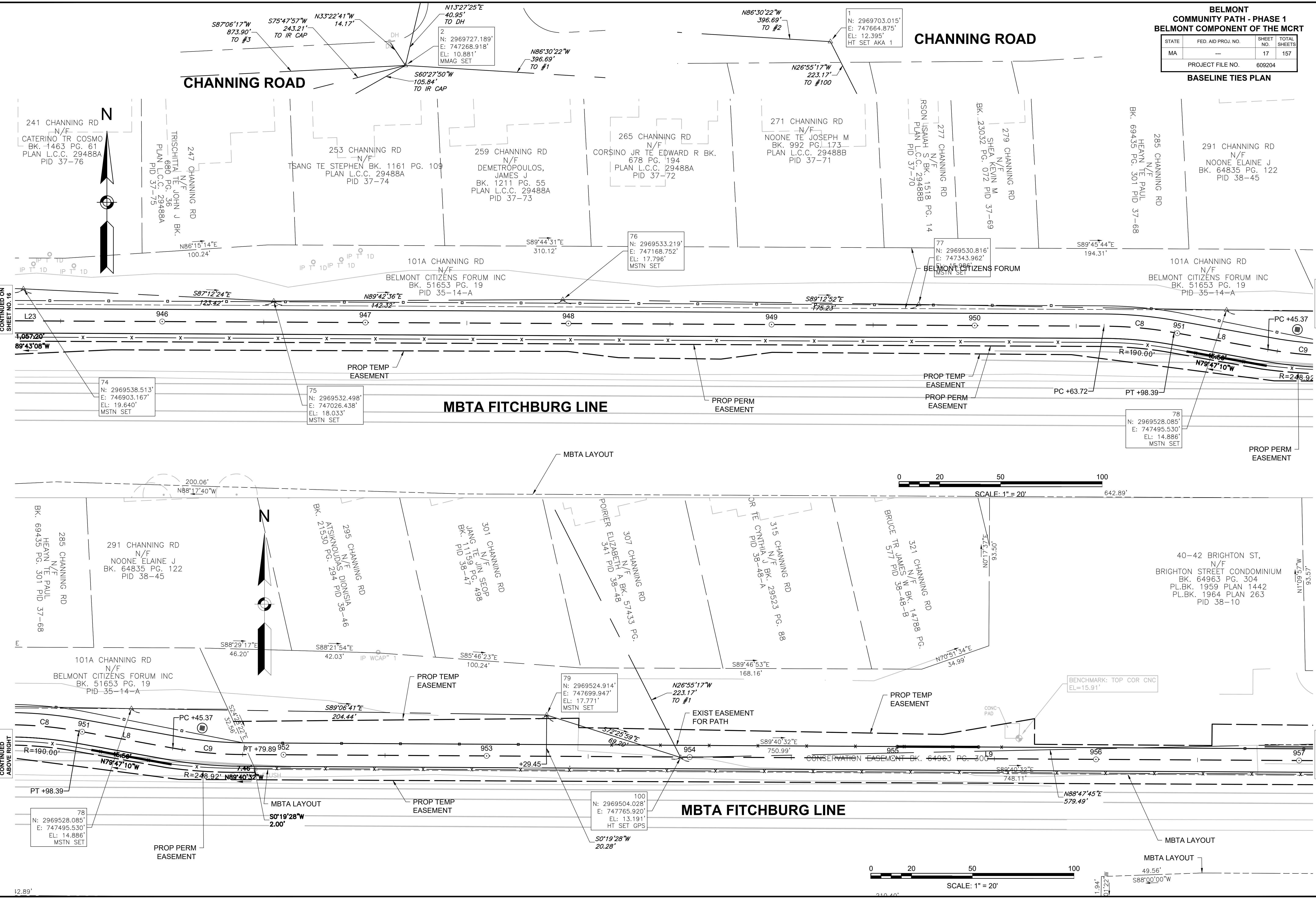
**BASELINE TIES PLAN**

### CHANNING ROAD

### CHANNING ROAD

### MBTA FITCHBURG LINE

### MBTA FITCHBURG LINE



CONTINUED ON SHEET NO. 16

CONTINUED BELOW LEFT

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 18

609204\_HD(BASELINE\_TIE).DWG

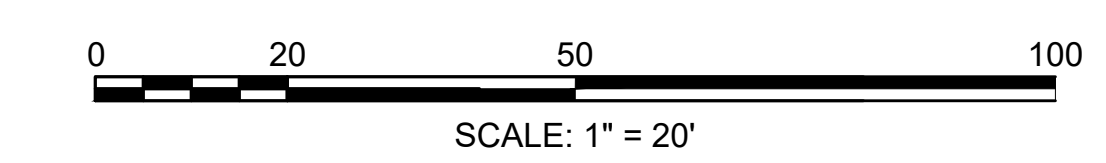
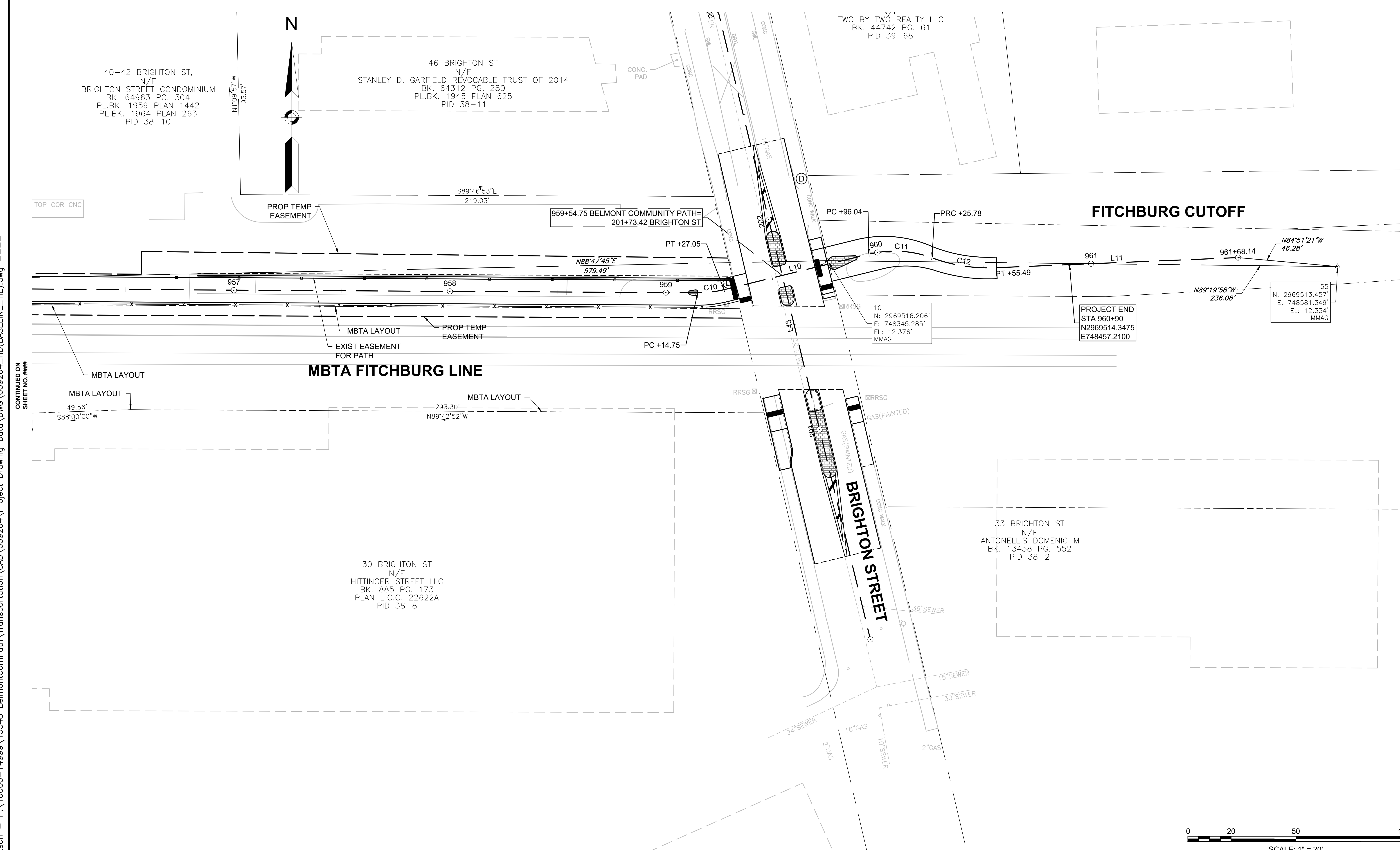
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	18	157
PROJECT FILE NO.		609204	

**BASELINE TIES PLAN**

Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(BASELINE\_TIE).dwg

609204\_HD(BASELINE\_TIE).DWG Plotted on 11/11/2014 10:58:58 AM

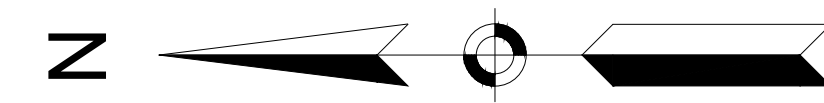


**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	19	157

PROJECT FILE NO. 609204

**BASELINE TIES PLAN**



BELMONT MIDDLE AND HIGH SCHOOL

PROP TEMP EASEMENT

PROP TEMP EASEMENT

PROP TEMP EASEMENT

PROP PERM EASEMENT

CONCORD AVE

54  
N: 2966  
E: 745E  
EL: 14.1  
MDHL



SCALE: 1" = 20'

CONTINUED ON SHEET NO. 15

P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(BASELINE\_TIE).dwg

609204\_HD(BASELINE\_TIE).DWG

Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(BASELINE\_TIE).dwg

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	20	157
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	900+00.00	2968925.2025	742583.2066		N32°52'18"E 121.98'	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 73.67'	912+78.54	2969538.3279	743654.9190
C2	912+78.54	2969538.3279	743654.9190	R=500.00' Δ=8°00'20" L=69.86' T=34.99'		913+48.40	2969542.8505	743724.5784
L4	913+48.40	2969542.8505	743724.5784		S89°42'42"E 120.86'	914+69.26	2969542.2425	743845.4350
C3	914+69.26	2969542.2425	743845.4350	R=125.00' Δ=11°51'28" L=25.87' T=12.98'		914+95.13	2969539.4458	743871.1069
L5	914+95.13	2969539.4458	743871.1069		S77°51'14"E 44.19'	915+39.32	2969530.1477	743914.3091
C4	915+39.32	2969530.1477	743914.3091	R=125.00' Δ=11°51'28" L=25.87' T=12.98'		915+65.19	2969527.3511	743939.9810
L6	915+65.19	2969527.3511	743939.9810		S89°42'42"E 48.28'	916+13.47	2969527.1082	743988.2587
C5	916+13.47	2969527.1082	743988.2587	R=125.00' Δ=9°07'44" L=19.92' T=9.98'		916+33.39	2969528.5917	744008.0985
L7	916+33.39	2969528.5917	744008.0985		N81°09'33"E 35.95'	916+69.34	2969534.1167	744043.6212
C6	916+69.34	2969534.1167	744043.6212	R=250.00' Δ=9°07'18" L=39.80' T=19.94'		917+09.14	2969537.0839	744083.2693
L14	917+09.14	2969537.0839	744083.2693		S89°43'08"E 742.92'	924+52.05	2969533.4402	744826.1769
C13	924+52.05	2969533.4402	744826.1769	R=300.00' Δ=2°15'26" L=11.82' T=5.91'		924+63.87	2969533.6150	744837.9932
L13	924+63.87	2969533.6150	744837.9932		N88°01'26"E 38.96'	925+02.83	2969534.9585	744876.9314
C14	925+02.83	2969534.9585	744876.9314	R=300.00' Δ=2°15'26" L=11.82' T=5.91'		925+14.65	2969535.1333	744888.7477
L12	925+14.65	2969535.1333	744888.7477		S89°43'08"E 490.99'	930+05.64	2969532.7252	745379.7331
C15	930+05.64	2969532.7252	745379.7331	R=300.00' Δ=8°38'04" L=45.21' T=22.65'		930+50.85	2969535.9045	745424.7889
L15	930+50.85	2969535.9045	745424.7889		N81°38'47"E 95.03'	931+45.88	2969549.7098	745518.8059
C16	931+45.88	2969549.7098	745518.8059	R=250.00' Δ=8°38'04" L=37.68' T=18.87'		931+83.56	2969552.3592	745556.3523
L19	931+83.56	2969552.3592	745556.3523		S89°43'08"E 114.78'	932+98.34	2969551.7963	745671.1310
L20	932+98.34	2969551.7963	745671.1310		S81°58'02"E 22.24'	933+20.58	2969548.6882	745693.1548
L18	933+20.58	2969548.6882	745693.1548		S89°43'08"E 106.91'	934+27.49	2969548.1639	745800.0663
C17	934+27.49	2969548.1639	745800.0663	R=300.00' Δ=6°16'38" L=32.87' T=16.45'		934+60.36	2969546.2043	745832.8592
L16	934+60.36	2969546.2043	745832.8592		S83°26'30"E 113.43'	935+73.79	2969533.2489	745945.5481
C7	935+73.79	2969533.2489	745945.5481	R=300.00' Δ=6°16'38" L=32.87' T=16.45'		936+06.66	2969531.2893	745978.3410

BELMONT COMMUNITY PATH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L21	936+06.66	2969531.2893	745978.3410		S89°43'08"E 329.75'	939+36.41	2969529.6720	746308.0904
C20	939+36.41	2969529.6720	746308.0904	R=250.00' Δ=4°34'24" L=19.95' T=9.98'		939+56.36	2969528.7783	746328.0194
L22	939+56.36	2969528.7783	746328.0194		S85°08'45"E 30.20'	939+86.57	2969526.2226	746358.1138
C21	939+86.57	2969526.2226	746358.1138	R=250.00' Δ=4°34'24" L=19.95' T=9.98'		940+06.52	2969525.3289	746378.0428
L23	940+06.52	2969525.3289	746378.0428		S89°43'08"E 1057.20'	950+63.72	2969520.1438	747435.2306
C8	950+63.72	2969520.1438	747435.2306	R=200.00' Δ=9°55'58" L=34.67' T=17.38'		950+98.39	2969516.9767	747469.7144
L8	950+98.39	2969516.9767	747469.7144		S79°47'10"E 46.97'	951+45.37	2969508.6477	747515.9408
C9	951+45.37	2969508.6477	747515.9408	R=200.00' Δ=9°53'22" L=34.52' T=17.30'		951+79.89	2969505.4814	747550.2732
L9	951+79.89	2969505.4814	747550.2732		S89°40'32"E 734.87'	959+14.75	2969501.3208	748285.1278
C10	959+14.75	2969501.3208	748285.1278	R=50.00' Δ=14°05'31" L=12.30' T=6.18'		959+27.05	2969502.7565	748297.3100
L10	959+27.05	2969502.7565	748297.3100		N76°13'57"E 68.99'	959+96.04	2969519.1753	748364.3193
C11	959+96.04	2969519.1753	748364.3193	R=50.00' Δ=34°04'27" L=29.74' T=15.32'		960+25.78	2969517.5042	748393.5707
C12	960+25.78	2969517.5042	748393.5707	R=75.00' Δ=22°41'49" L=29.71' T=15.05'		960+55.49	2969512.9081	748422.7271
L11	960+55.49	2969512.9081	748422.7271		N87°36'35"E 112.65'	961+68.14	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
C22	50+45.40	2969564.0520	743681.2753	R=100.00' Δ=6°19'30" L=11.04' T=5.53'		50+56.44	2969565.0057	743692.2676
L24	50+56.44	2969565.0057	743692.2676		N81°52'49"E 36.09'	50+92.53	2969570.1036	743727.9998
C23	50+92.53	2969570.1036	743727.9998	R=15.00' Δ=97°47'07" L=25.60' T=17.19'		51+18.13	2969555.1564	743744.9568
L26	51+18.13	2969555.1564	743744.9568		S0°17'18"W 12.41'	51+30.54	2969542.7483	743744.8943

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 300.04'	203+00.04	2969632.4058	748294.4046

609204\_HD(BASELINE\_TIE).DWG

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		S51°31'46"E 7.91'	501+93.85	2969560.1777	745689.7941
L42	501+93.85	2969560.1777	745689.7941		S16°18'15"E 18.46'	502+12.31	2969542.4575	745694.9773
C33	502+12.31	2969542.4575	745694.9773	R=80.00' Δ=16°34'55" L=23.15' T=11.66'		502+35.46	2969519.6108	745698.1935
L34	502+35.46	2969519.6108	745698.1935		S0°16'40"W 51.71'	502+87.18	2969467.8969	745697.9428
C28	502+87.18	2969467.8969	745697.9428	R=60.00' Δ=43°25'18" L=45.47' T=23.89'		503+32.65	2969426.7352	745681.3219
L35	503+32.65	2969426.7352	745681.3219		S43°41'58"W 0.79'	503+33.44	2969426.1607	745680.7730
C29	503+33.44	2969426.1607	745680.7730	R=55.00' Δ=64°37'32" L=62.04' T=34.79'		503+95.48	2969368.5185	745669.1642
L36	503+95.48	2969368.5185	745669.1642		S20°55'34"E 51.81'	504+47.29	2969320.1218	745687.6705
C30	504+47.29	2969320.1218	745687.6705	R=75.00' Δ=20°55'34" L=27.39' T=13.85'		504+74.68	2969293.3344	745692.6173
L37	504+74.68	2969293.3344	745692.6173		S0°00'00"E 17.03'	504+91.72	2969276.2996	745692.6173
C31	504+91.72	2969276.2996	745692.6173	R=100.00' Δ=9°05'25" L=15.87' T=7.95'		505+07.59	2969260.5005	745693.8733
L38	505+07.59	2969260.5005	745693.8733		S9°05'25"E 18.57'	505+26.15	2969242.1652	745696.8069
L39	505+26.15	2969242.1652	745696.8069		S0°00'15"E 349.55'	508+75.71	2968892.6136	745696.8332
C34	508+75.71	2968892.6136	745696.8332	R=45.00' Δ=53°42'44" L=42.19' T=22.79'		509+17.89	2968856.3679	745678.4134

ALEXANDER AVE SPUR CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C35	509+17.89	2968856.3679	745678.4134	R=55.00' Δ=32°44'36" L=31.43' T=16.16'		509+49.32	2968831.7446	745659.5713
L40	509+49.32	2968831.7446	745659.5713		S21°03'07"W 64.53'	510+13.85	2968771.5204	745636.3906

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	21	157
PROJECT FILE NO.		609204	

**BASELINE TIES PLAN**

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	22	157
PROJECT FILE NO. 609204			

**CONSTRUCTION PLAN AND PROFILE**

**HIGHWAY GUARD DETAILS**

PROP TIMBER RAIL 900+33 TO 901+00 LT  
PROP TIMBER RAIL 902+24 TO 903+25 LT  
PROP TIMBER RAIL 905+00 TO 910+25 LT

**TRAFFIC SIGNAL CONDUIT**

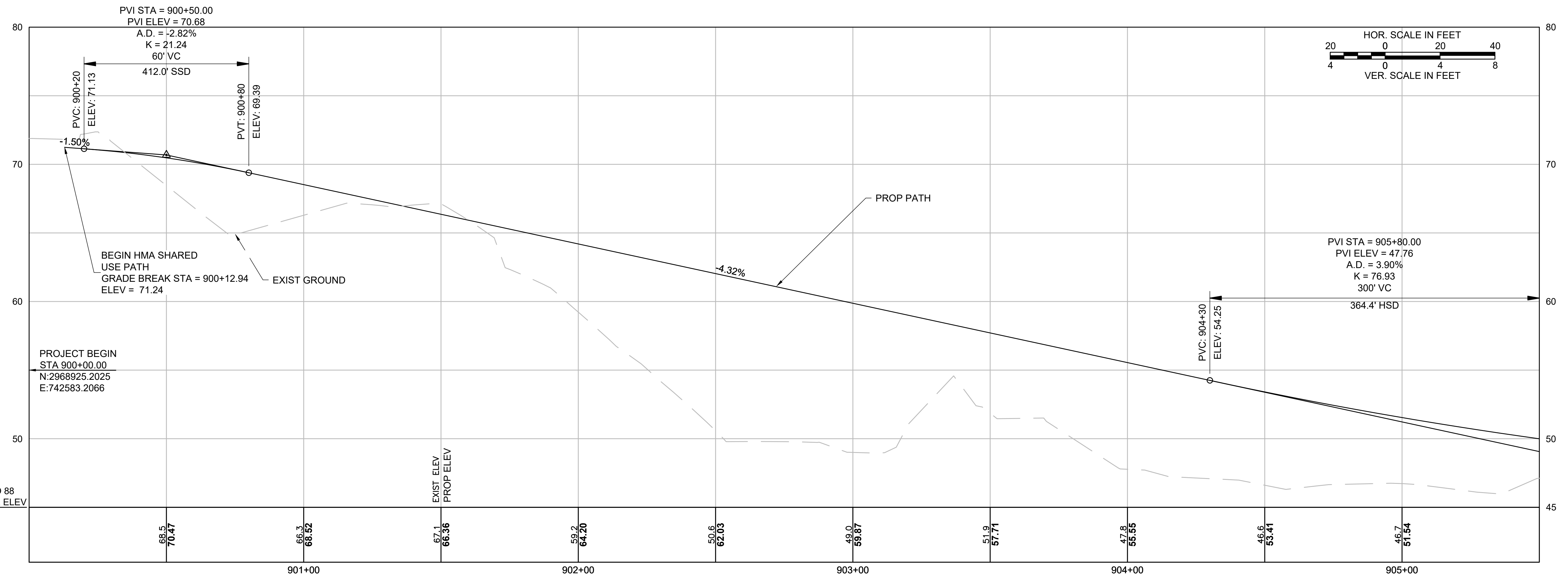
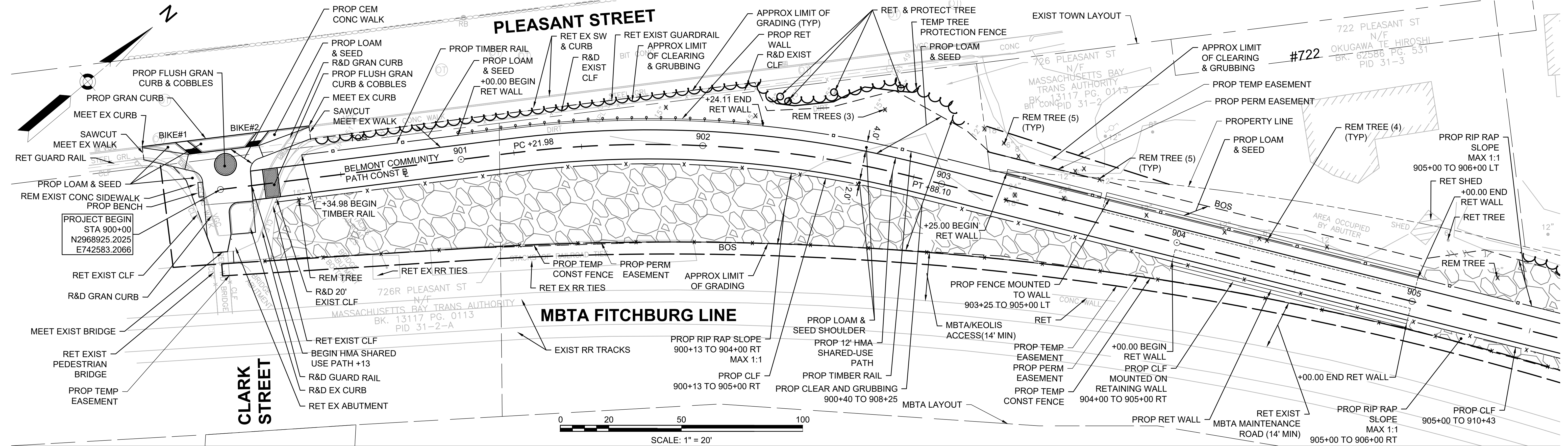
NONE

**WATER SUPPLY ALTERATIONS**

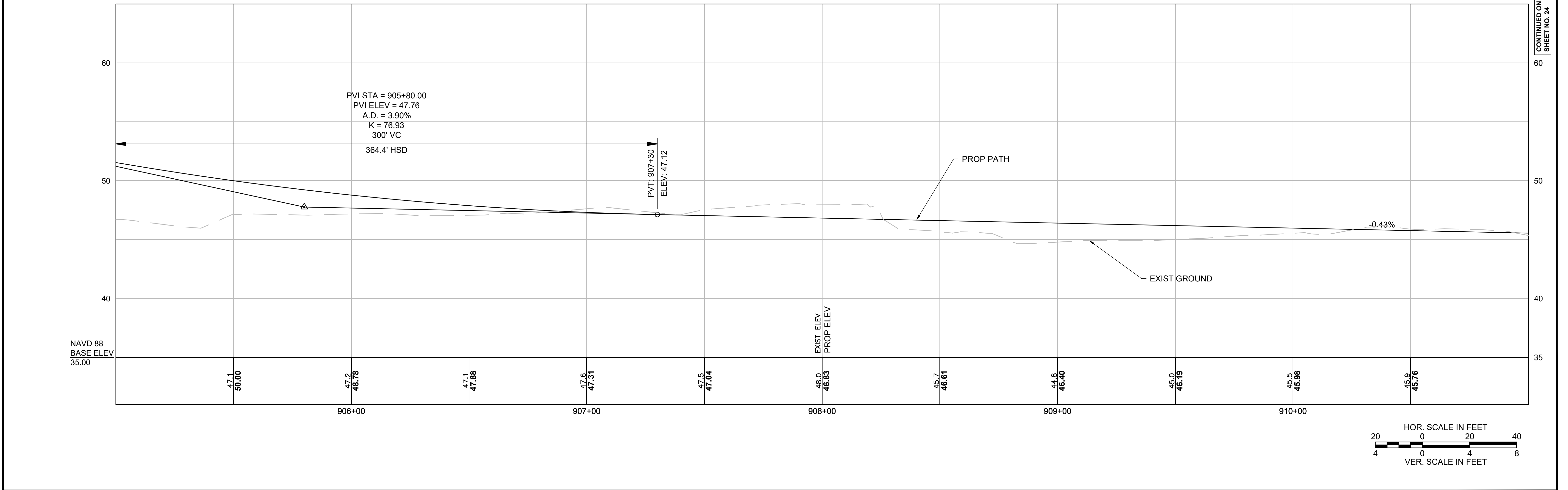
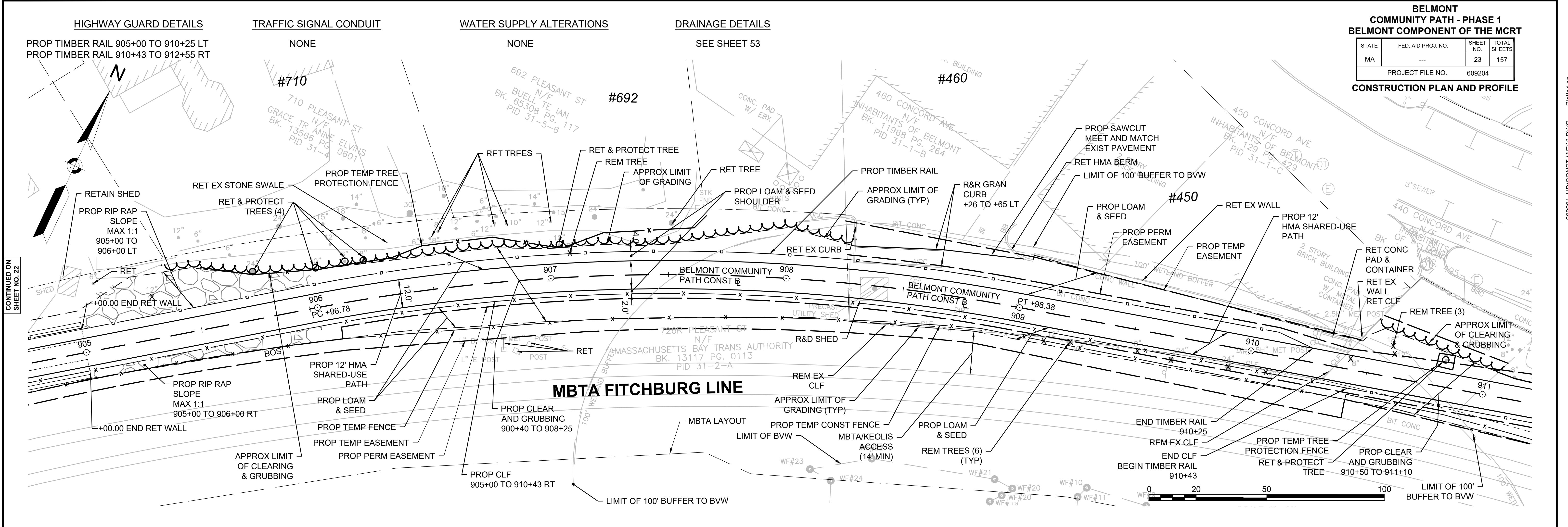
NONE

**DRAINAGE DETAILS**

SEE SHEET 53



P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(CONST-view).dwg



609204\_HD(CONST-VIEW).DWG

CONTINUED ON SHEET NO. 24

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	24	157

PROJECT FILE NO. 609204

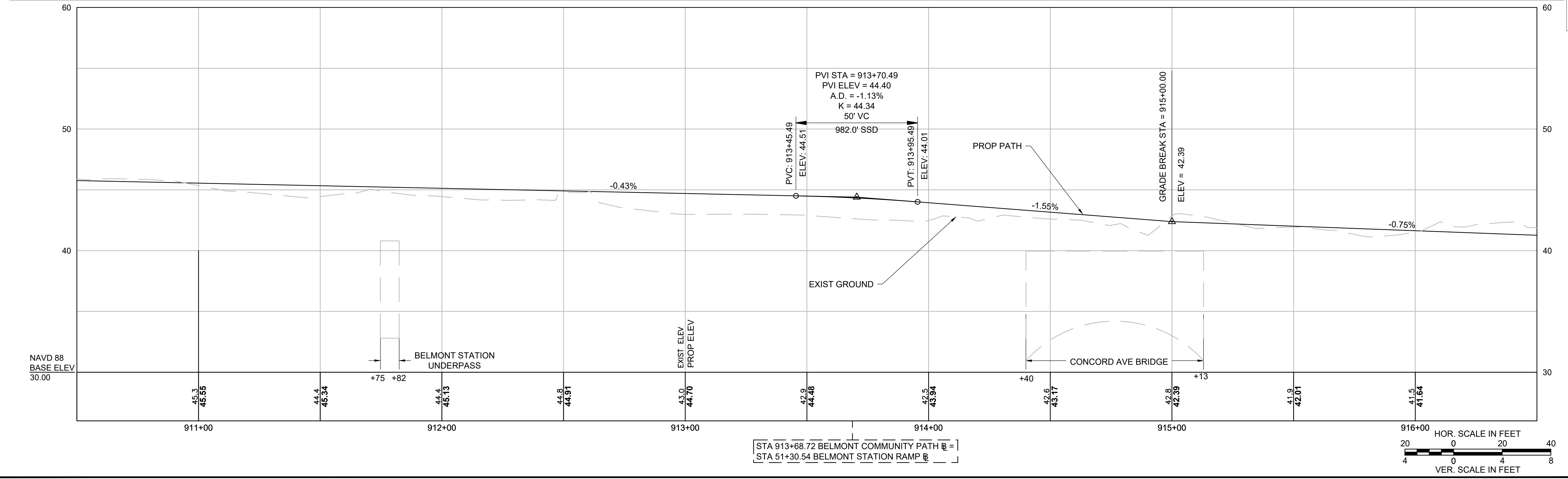
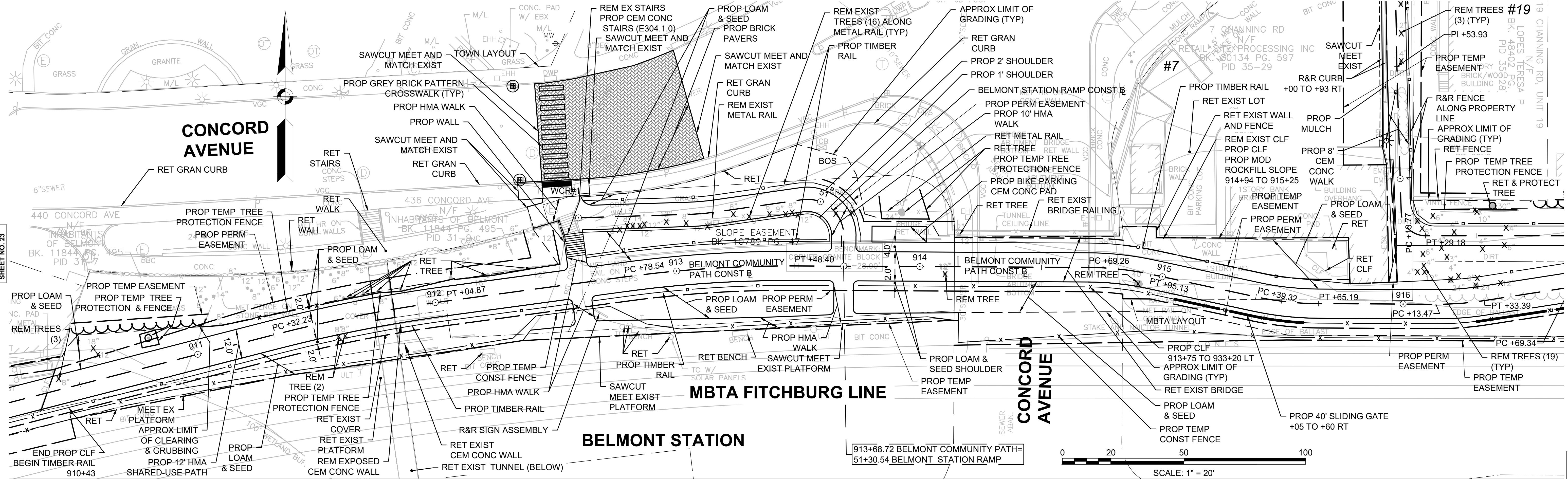
**CONSTRUCTION PLAN AND PROFILE**

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

**TRAFFIC SIGNAL CONDUIT**  
 NONE

**WATER SUPPLY ALTERATIONS**  
 NONE

**DRAINAGE DETAILS**  
 SEE SHEET 54



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(CONST-view).dwg

CONTINUED ON SHEET NO. 25

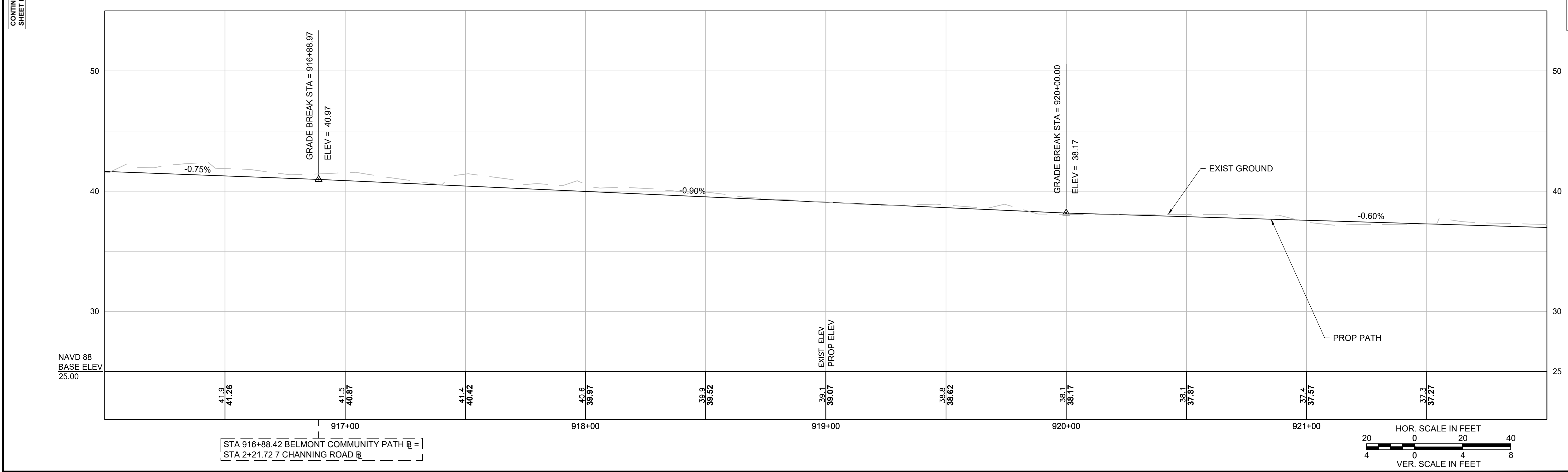
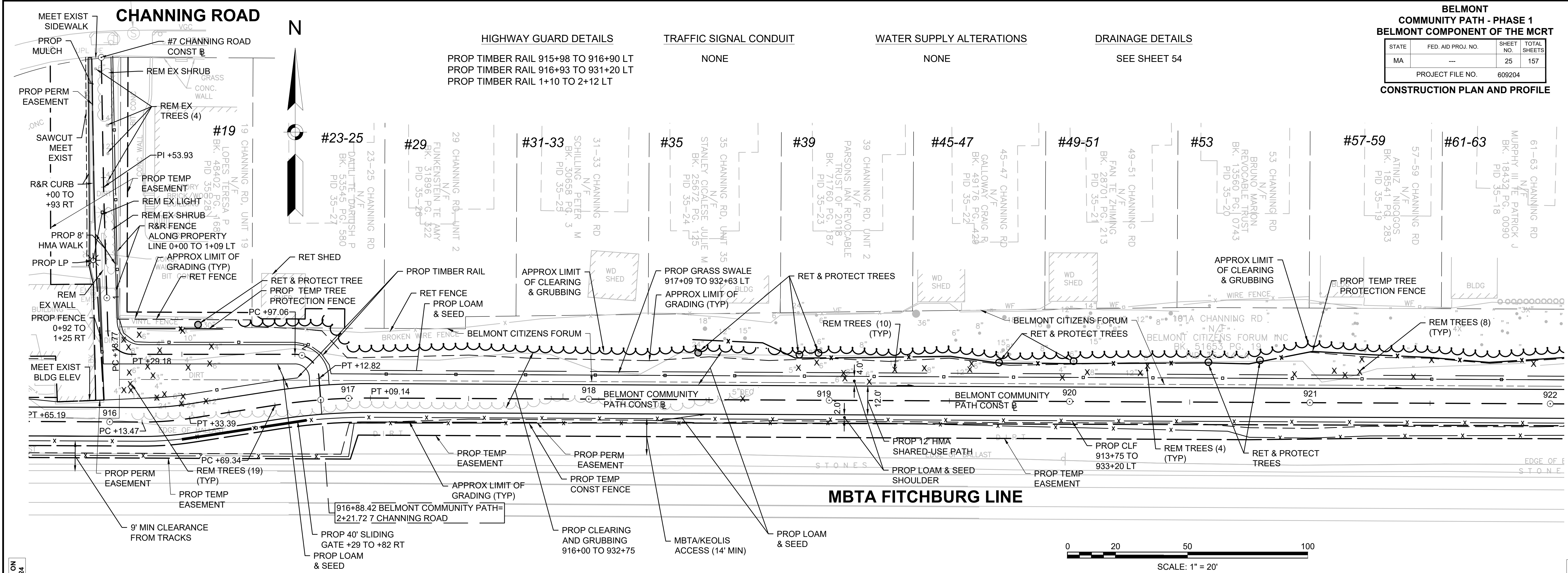
609204\_HD(CONST-VIEW).DWG



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(CONST-view).dwg

CONTINUED ON SHEET NO. 24

CONTINUED ON SHEET NO. 26

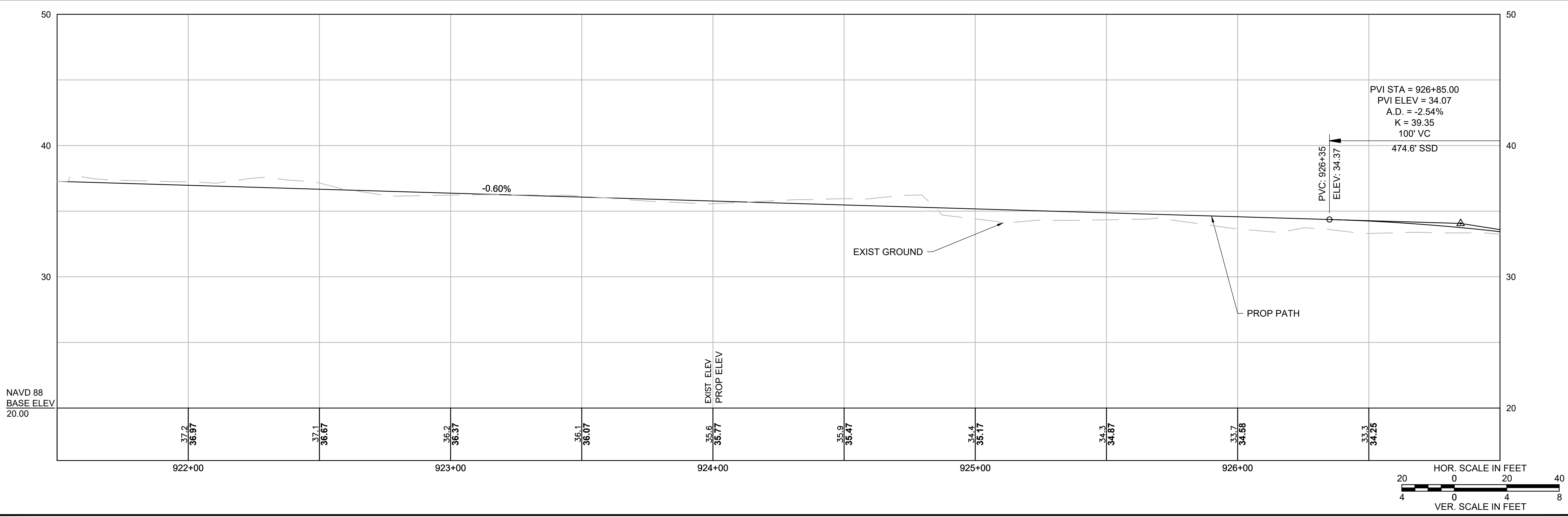
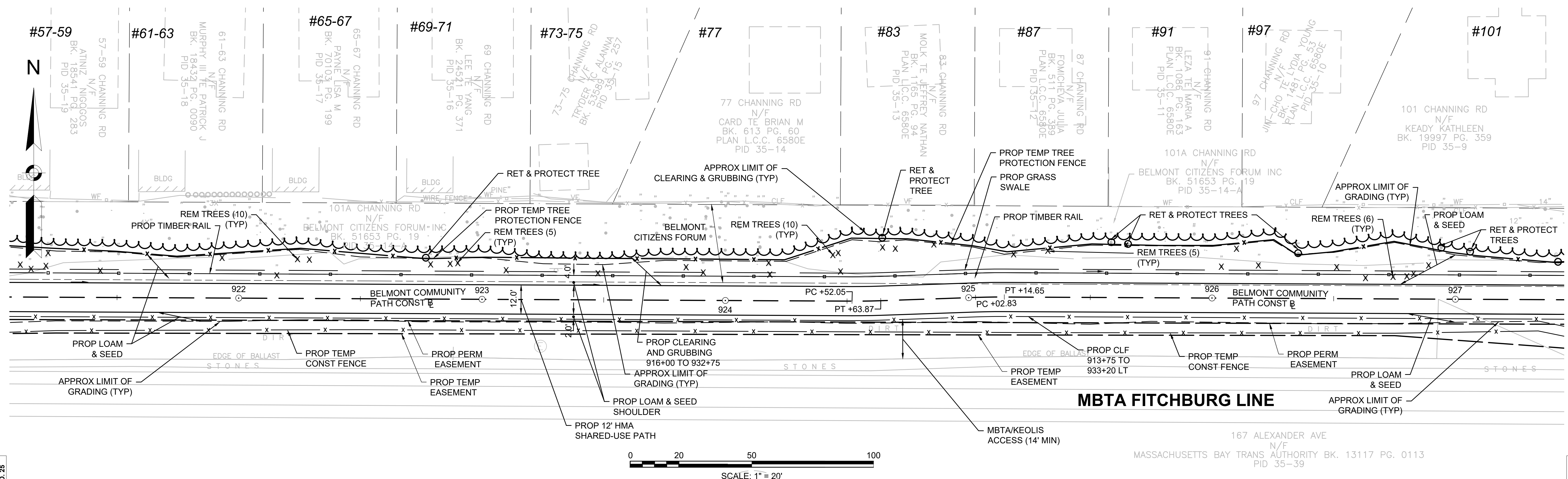


**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	26	157

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 55



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(CONST-view).dwg

CONTINUED ON SHEET NO. 25

CONTINUED ON SHEET NO. 27

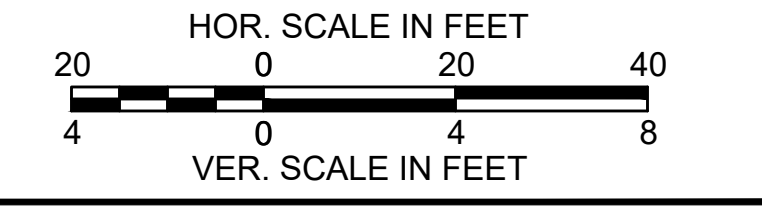
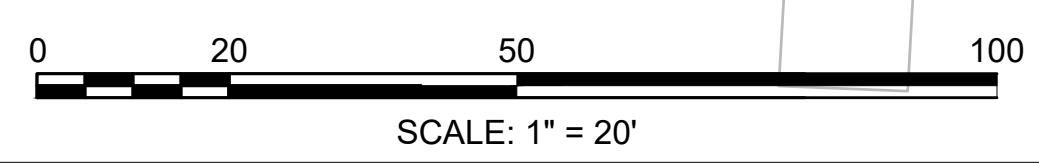
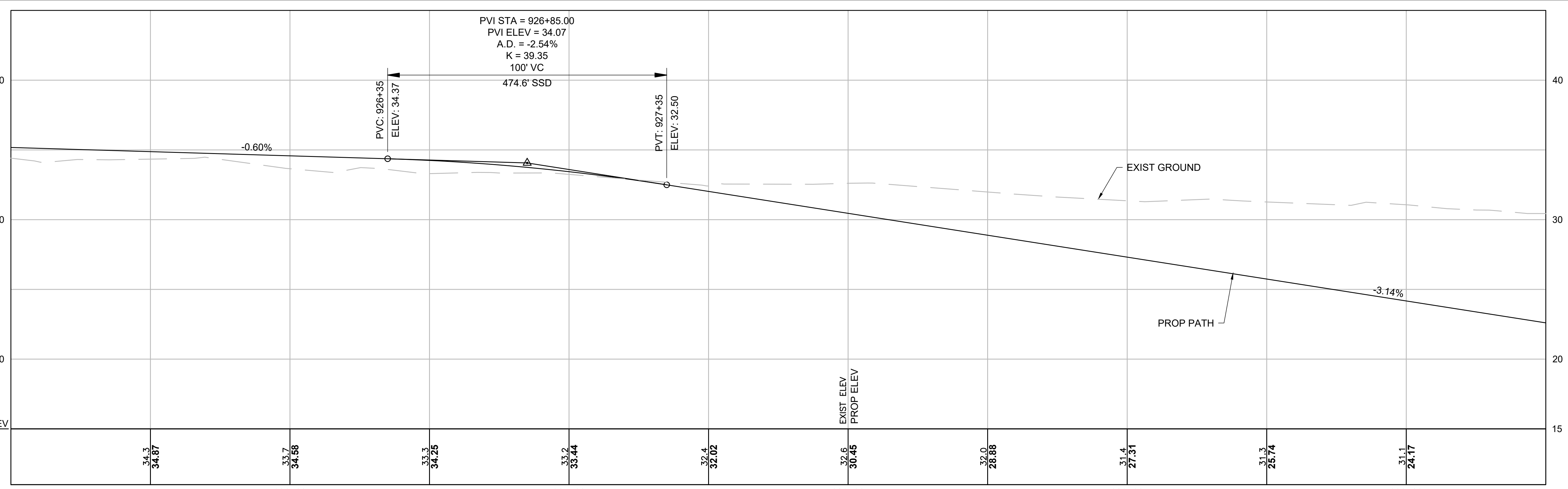
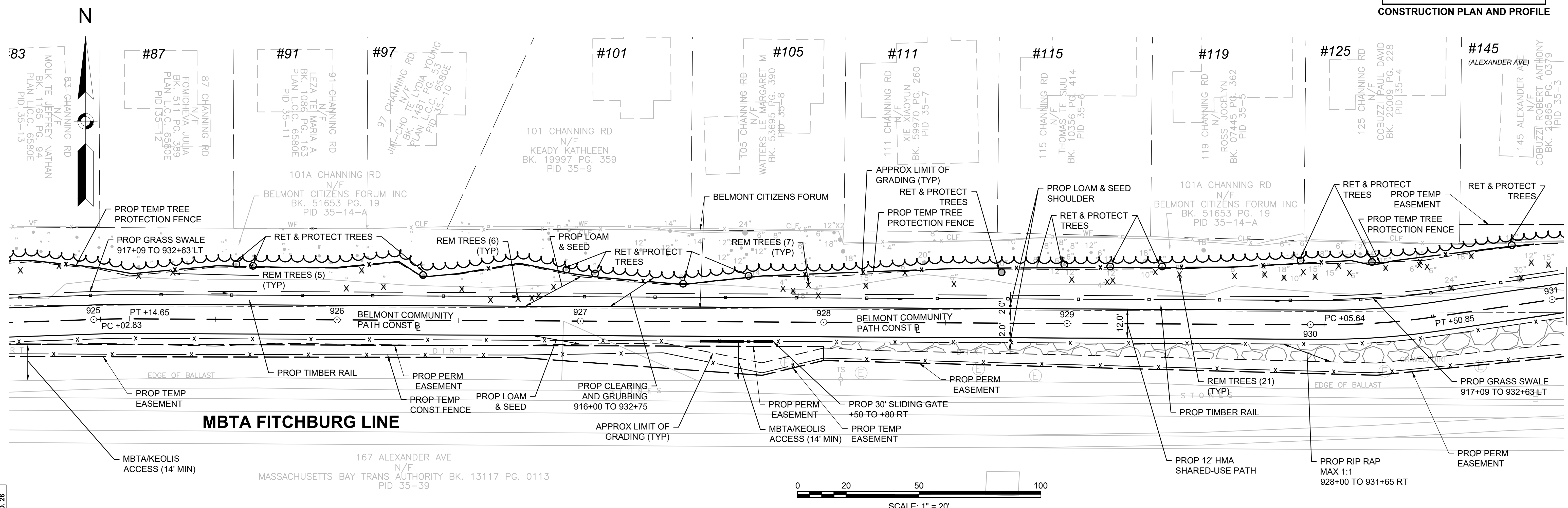
Plotted on 6/20/2014 10:00:00 AM

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	27	157

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 55



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(CONST-view).dwg

CONTINUED ON SHEET NO. 26

CONTINUED ON SHEET NO. 23

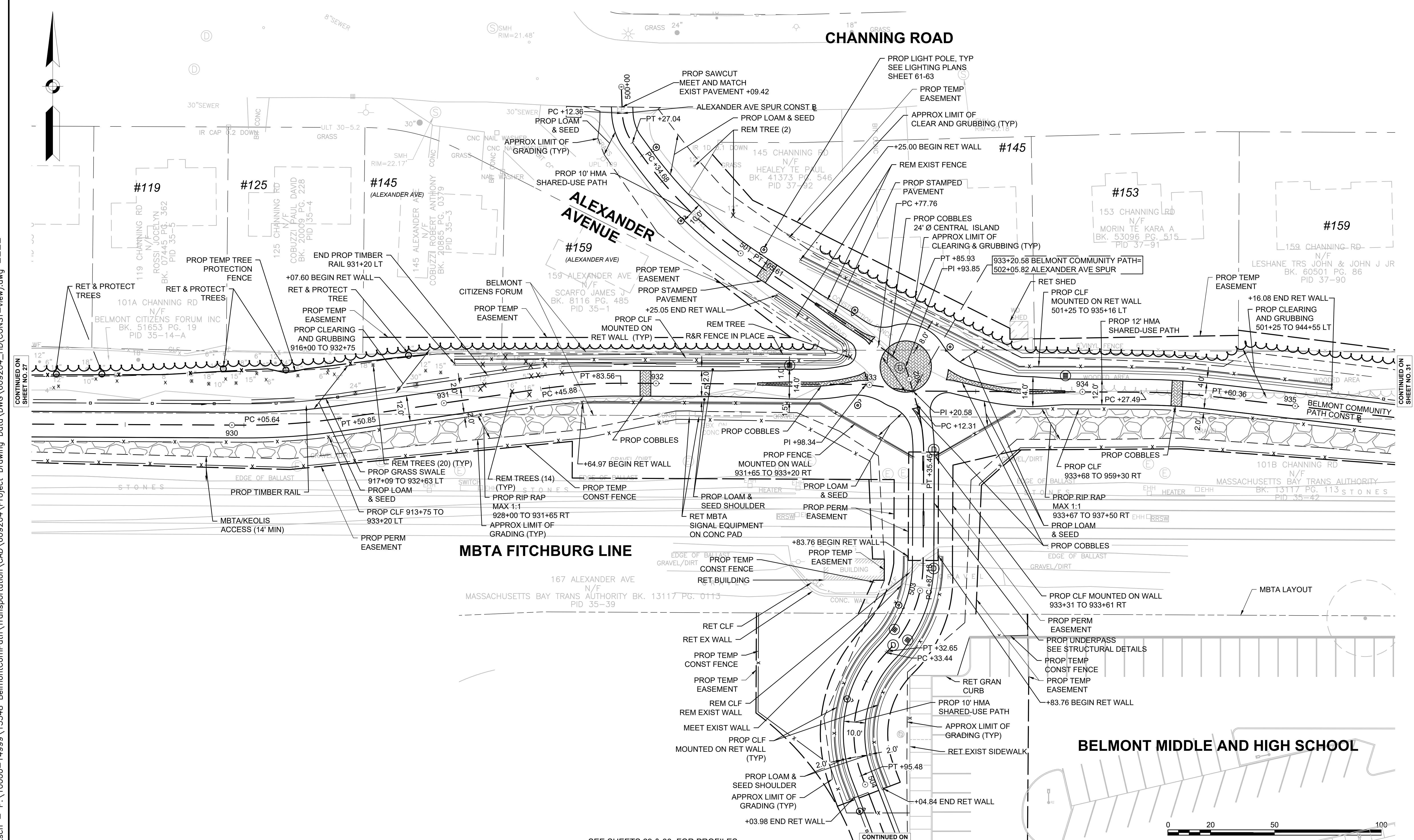
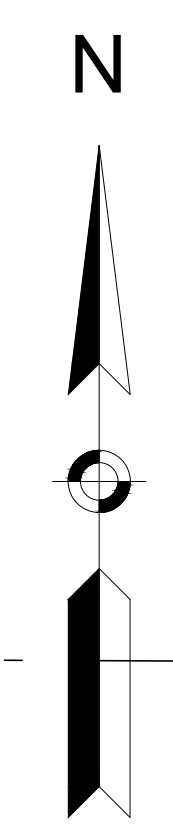
609204\_HD(CONST-VIEW).DWG

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

TRAFFIC SIGNAL CONDUIT  
NONE

WATER SUPPLY ALTERATIONS  
NONE

DRAINAGE DETAILS  
SEE SHEET 56



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(CONST-view).dwg

609204\_HD(CONST-VIEW).DWG

SEE SHEETS 29 & 30 FOR PROFILES

CONTINUED ON SHEET 36

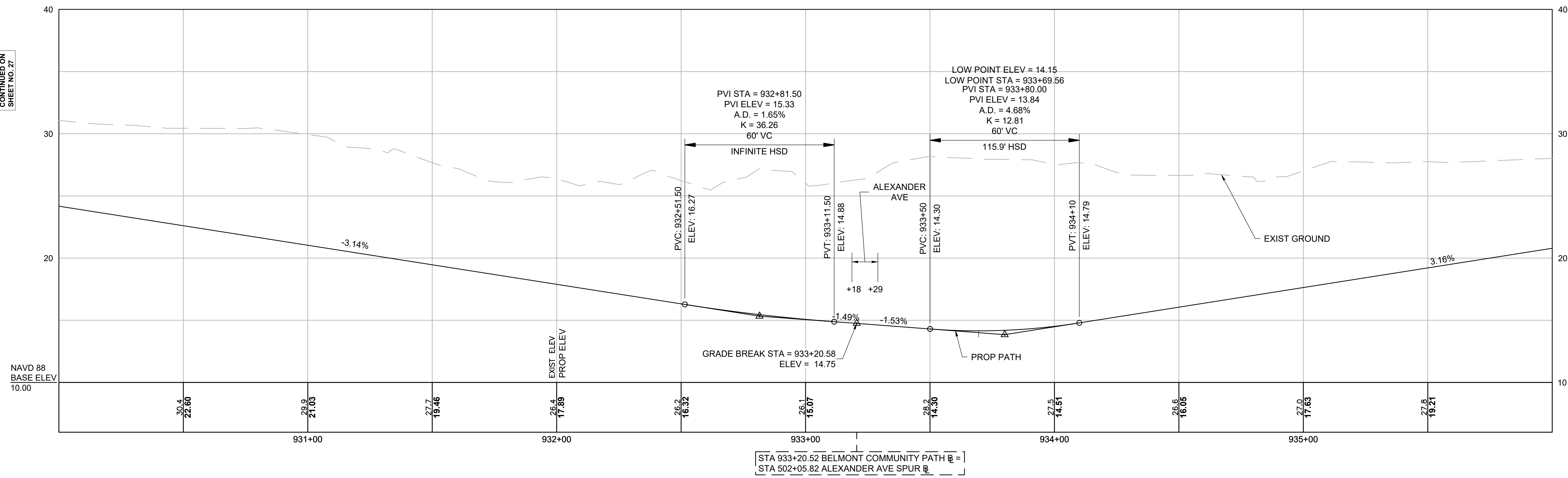
CONTINUED ON SHEET NO. 31

CONTINUED ON SHEET NO. 27

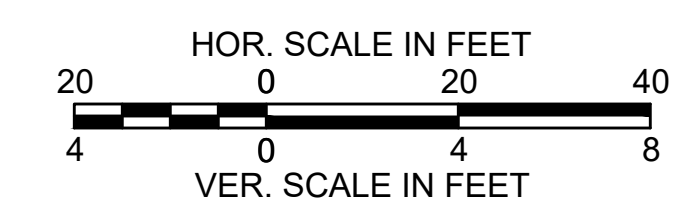
### BELMONT COMMUNITY PATH

CONTINUED ON  
SHEET NO. 27

CONTINUED ON  
SHEET NO. 31



SEE SHEET 28 FOR CONSTRUCTION PLAN



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(CONST-view).dwg

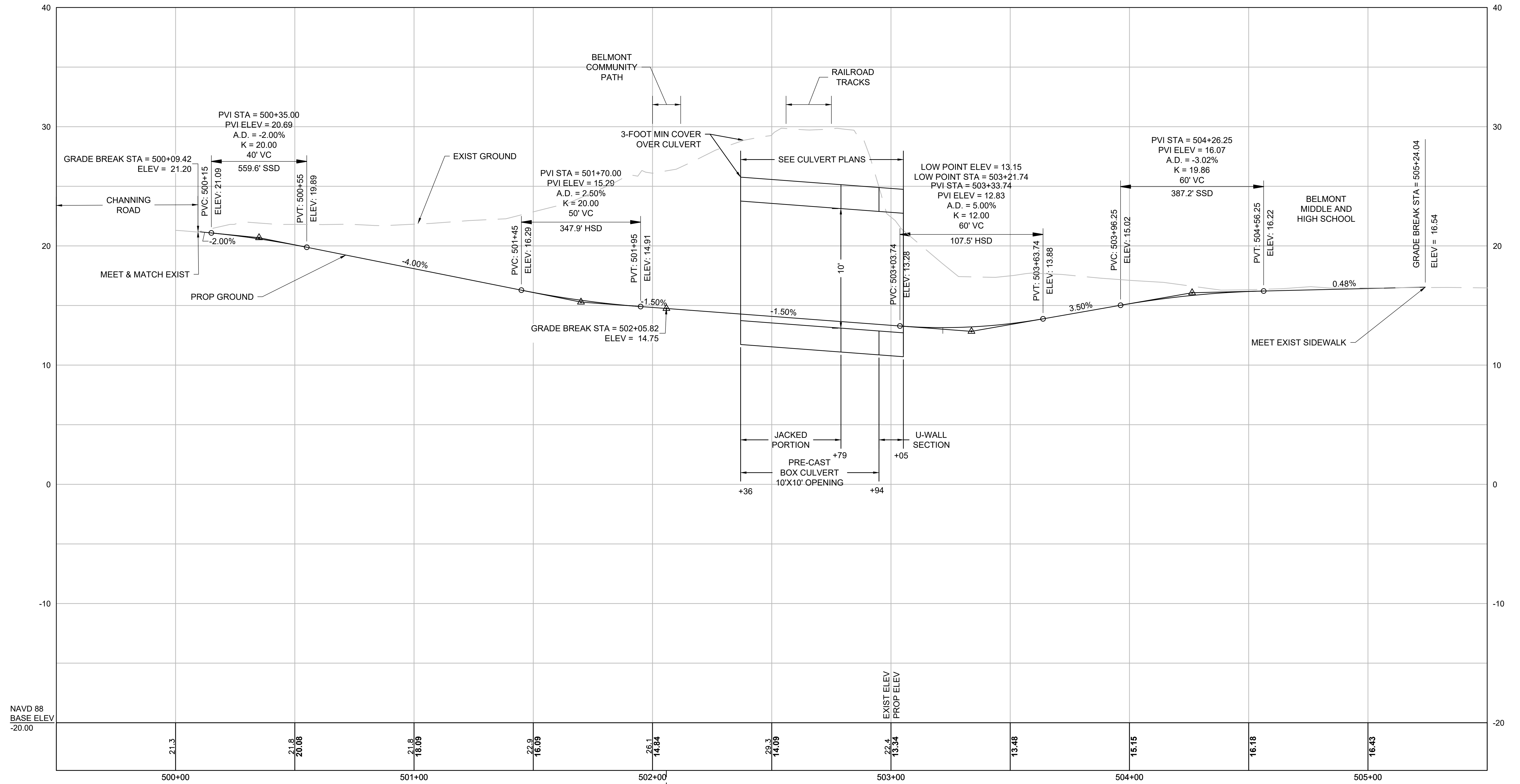
609204\_HD(CONST-VIEW).DWG Plotted on 11/11/2014 10:00:00 AM

# ALEXANDER AVE SPUR

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	30	157
PROJECT FILE NO. 609204			

**CONSTRUCTION PLAN AND PROFILE**

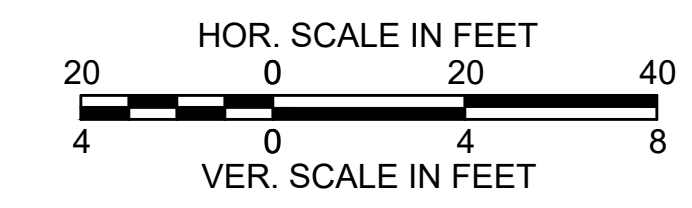


Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(CONST-view).dwg

CONTINUED ON SHEET NO. 36

609204\_HD(CONST-VIEW).DWG

SEE SHEET 28 FOR CONSTRUCTION PLAN



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(CONST-view).dwg

609204\_HD(CONST-VIEW).DWG

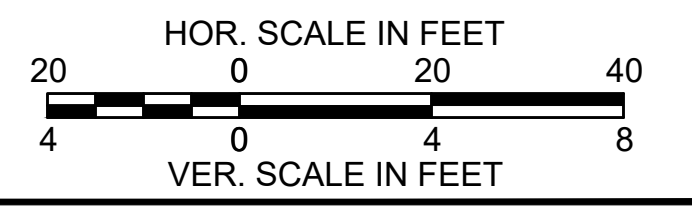
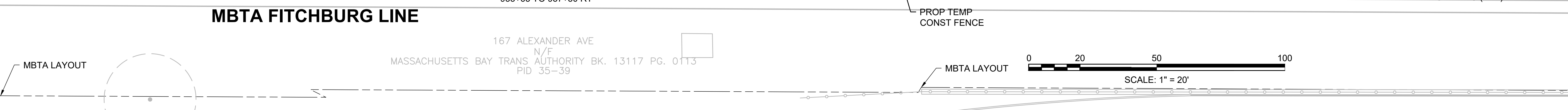
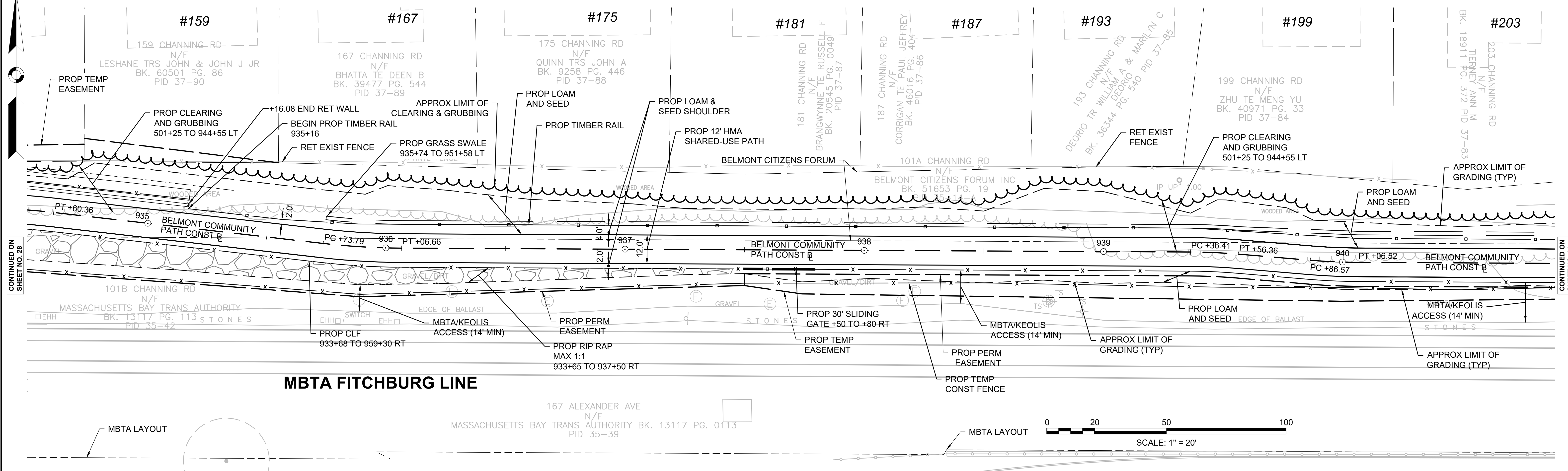
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	31	157
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 57

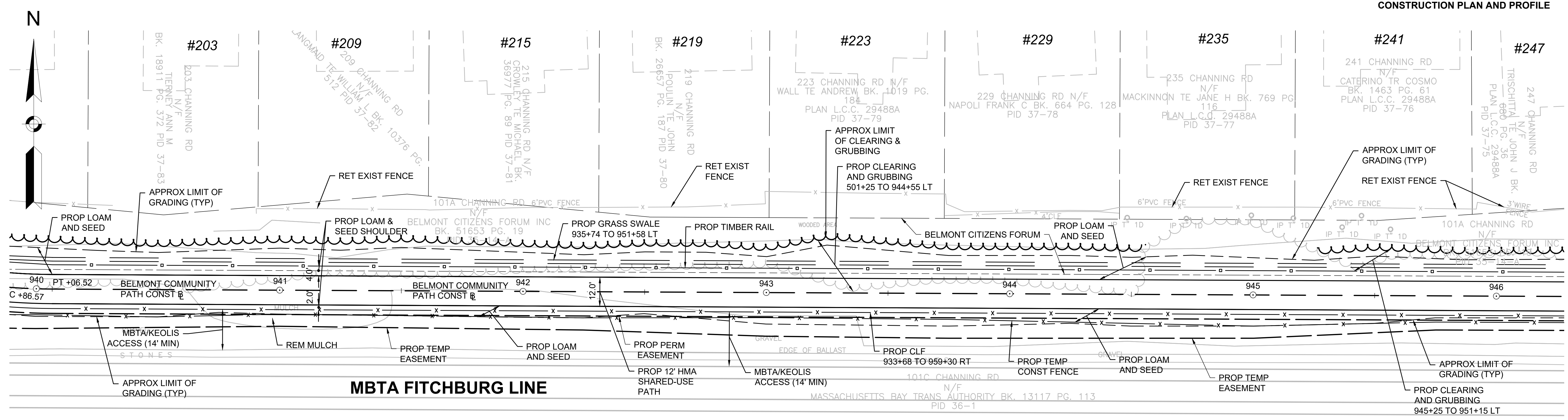


**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

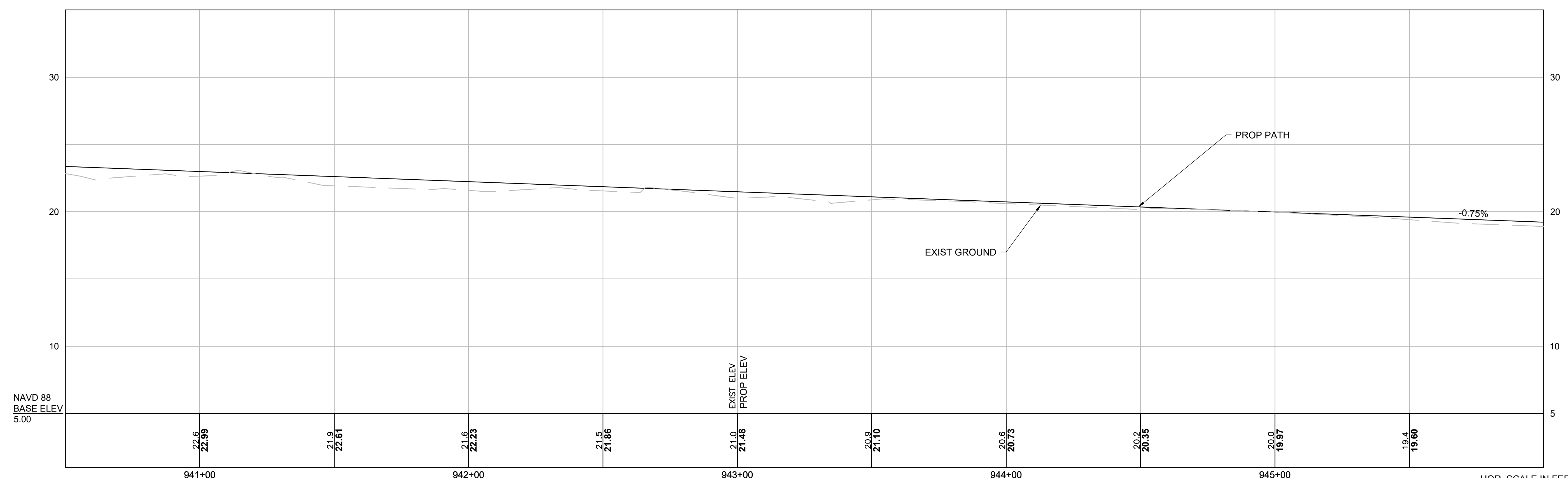
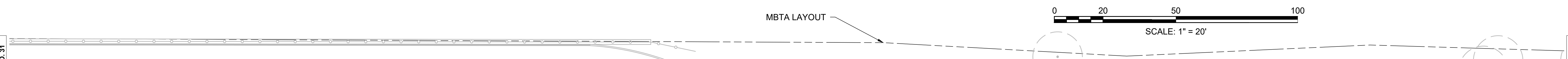
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	32	157

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 57



**MBTA FITCHBURG LINE**



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

Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(CONST-view).dwg

CONTINUED ON SHEET NO. 31

CONTINUED ON SHEET NO. 33

609204\_HD(CONST-VIEW).DWG



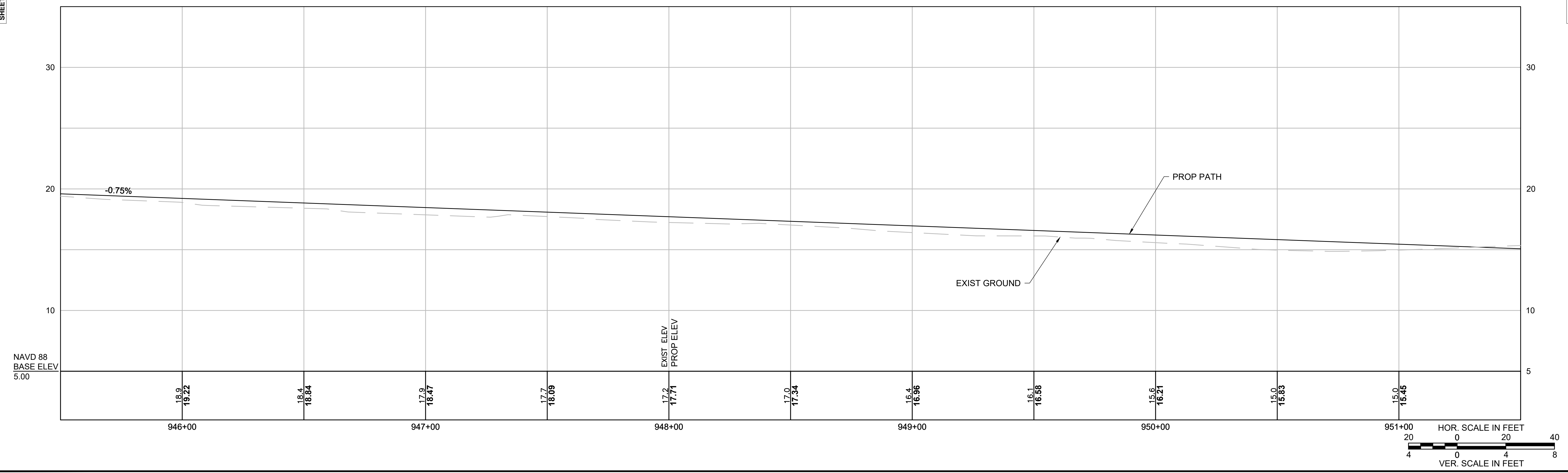
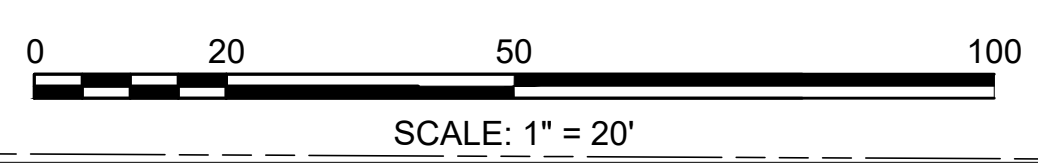
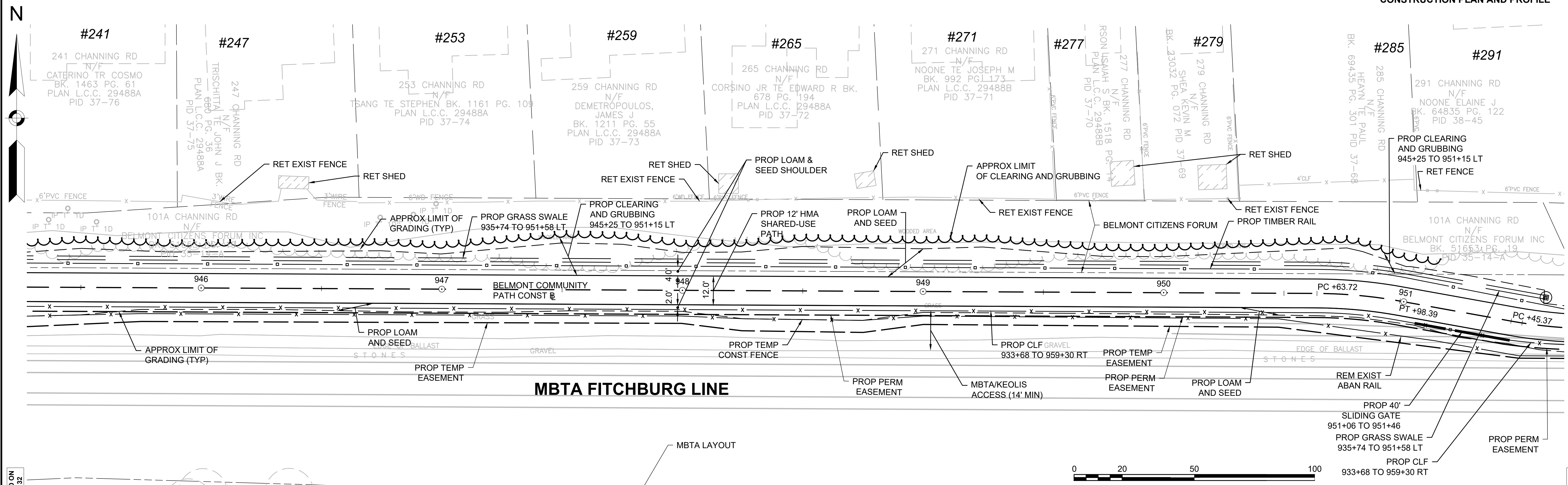
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	33	157

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 58



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(CONST-view).dwg

CONTINUED ON SHEET NO. 32

CONTINUED ON SHEET NO. 34

609204\_HD(CONST-VIEW).DWG

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	34	157

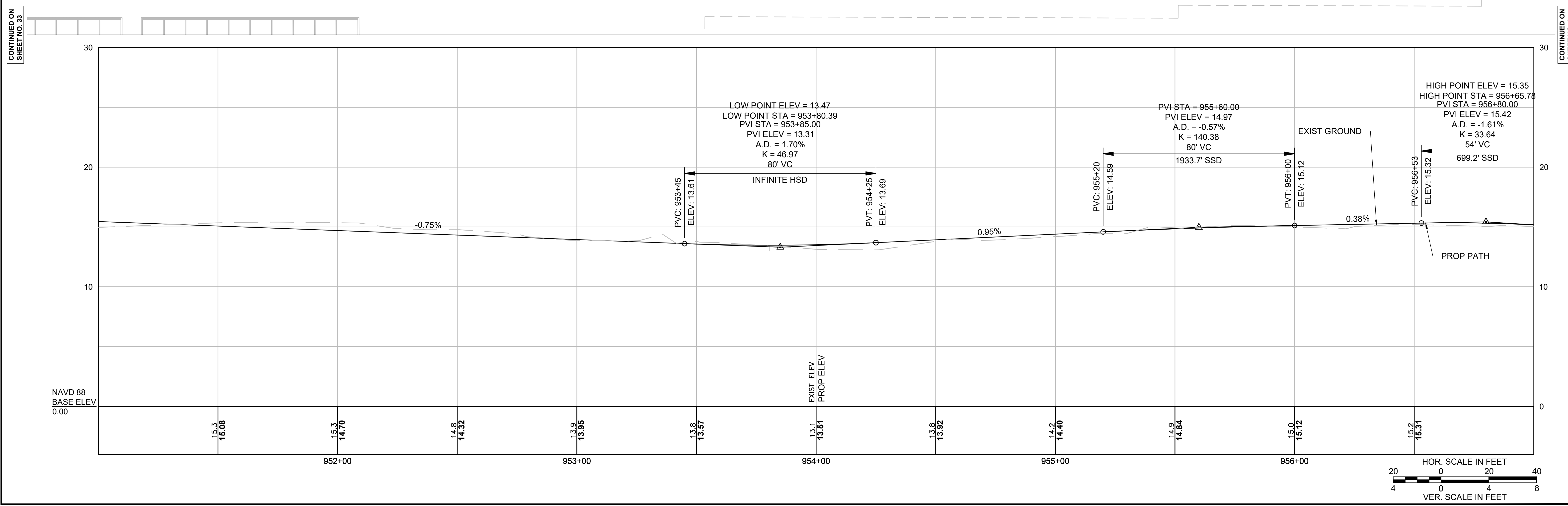
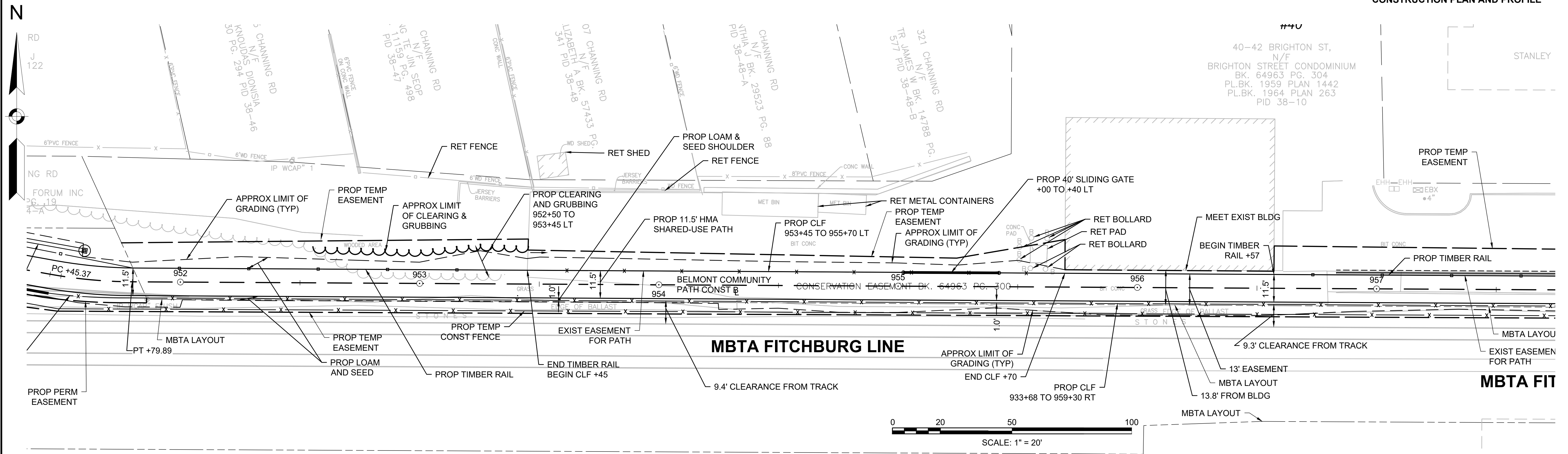
PROJECT FILE NO. 609204  
**CONSTRUCTION PLAN AND PROFILE**

**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 58



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(CONST-view).dwg

CONTINUED ON SHEET NO. 33

CONTINUED ON SHEET NO. 35

609204\_HD(CONST-VIEW).DWG

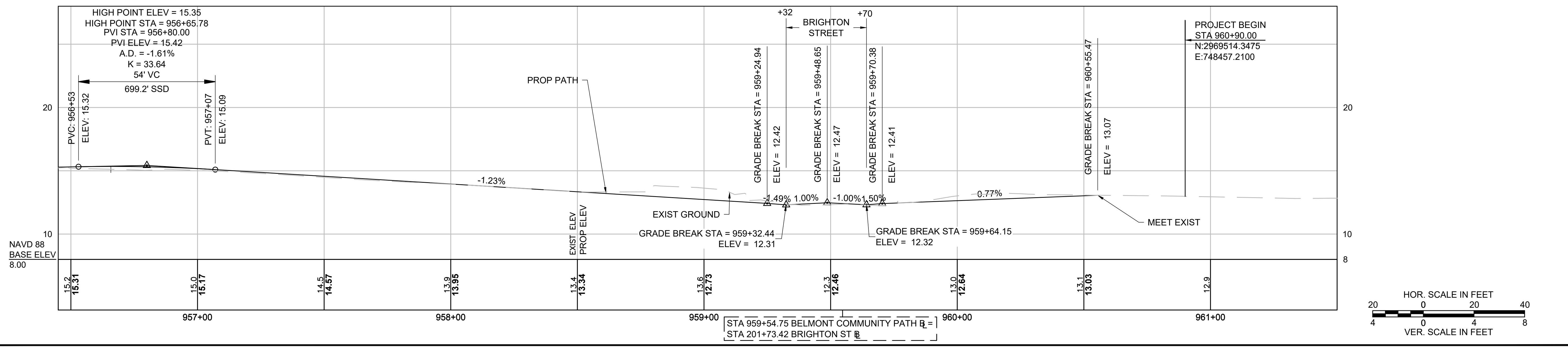
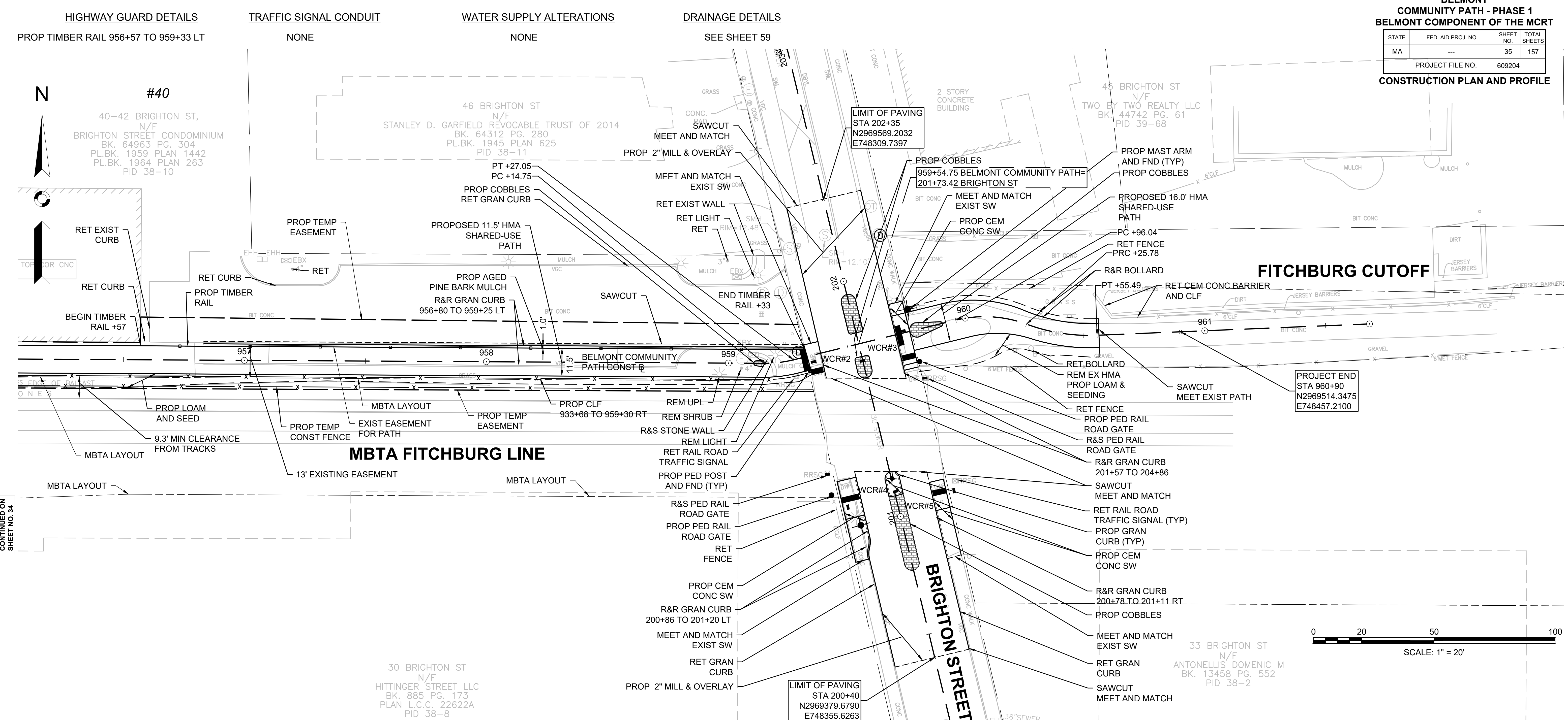
Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(CONST-view).dwg

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA		35	157

PROJECT FILE NO. 609204

**CONSTRUCTION PLAN AND PROFILE**



Plotfile on ..... 609204\_HD(CONST-VIEW).DWG

Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(CONST-view).dwg -----  
 CONTINUED ON SHEET NO. 28

HIGHWAY GUARD DETAILS  
 PROP TIMBER RAIL 504+04 TO 505+08 LT  
 PROP TIMBER RAIL 504+04 TO 505+26 RT

TRAFFIC SIGNAL CONDUIT  
 NONE

WATER SUPPLY ALTERATIONS  
 NONE

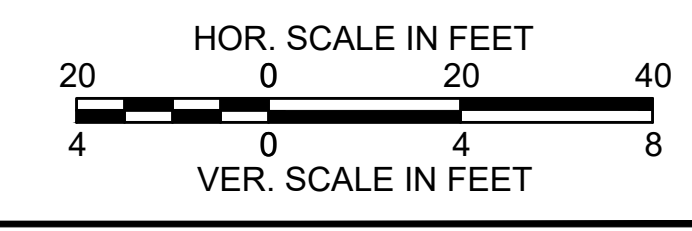
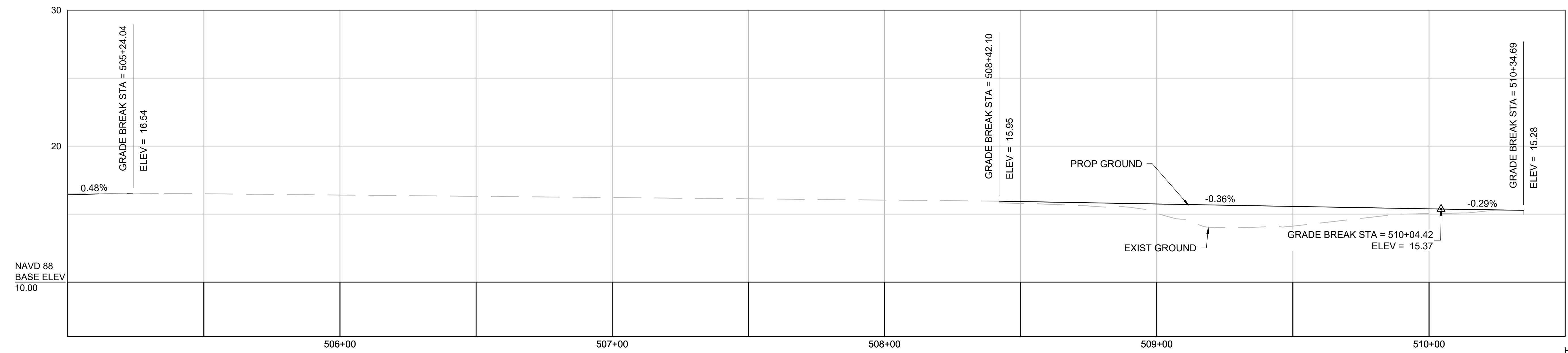
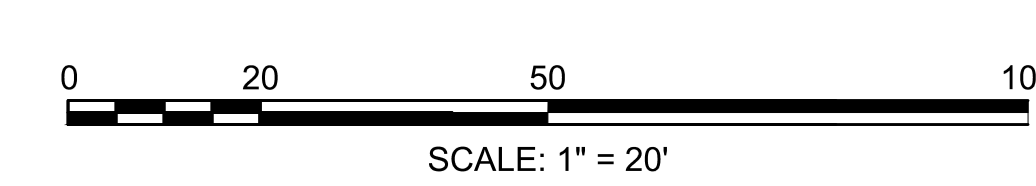
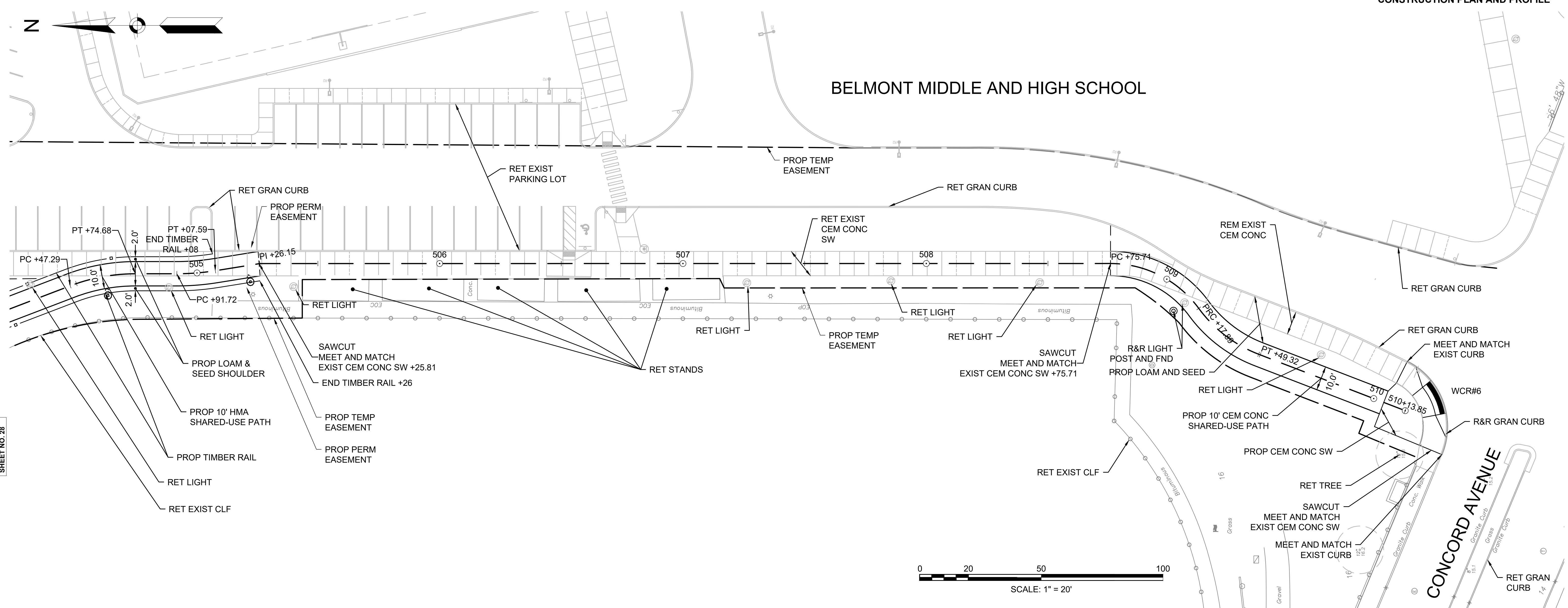
DRAINAGE DETAILS  
 NONE

**BELMONT  
 COMMUNITY PATH - PHASE 1  
 BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	36	157

PROJECT FILE NO. 609204

**CONSTRUCTION PLAN AND PROFILE**



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

EXISTING SIGN LEGEND



R6-1

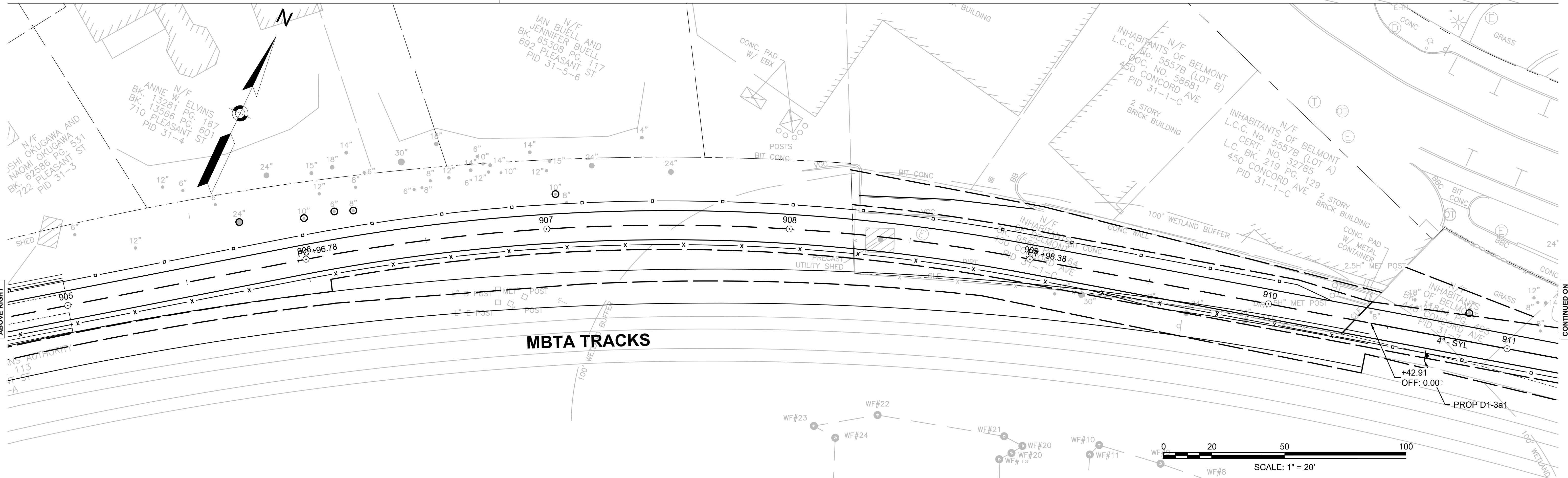
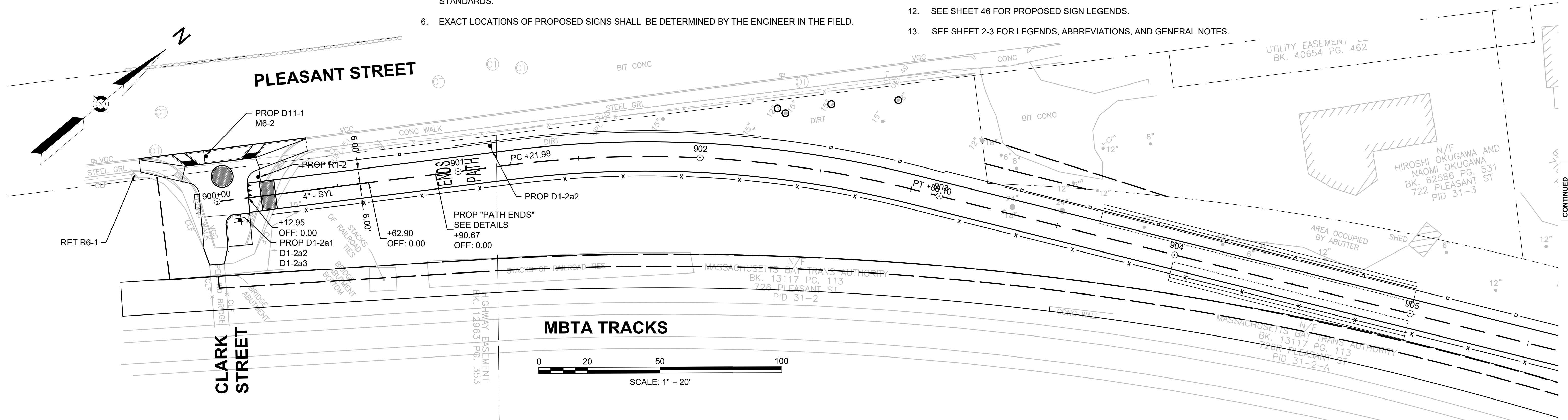
TRAFFIC SIGN AND PAVEMENT MARKINGS NOTES

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 7.0' MINIMUM 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 46 FOR PROPOSED SIGN LEGENDS.
13. SEE SHEET 2-3 FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.

BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	37	157

PROJECT FILE NO. 609204  
TRAFFIC SIGN & PAVEMENT  
MARKINGS PLANS



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(SIGN & PAVE MARK).dwg

CONTINUED  
BELOW LEFT

CONTINUED ON  
SHEET NO. 38

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

EXISTING SIGN LEGEND

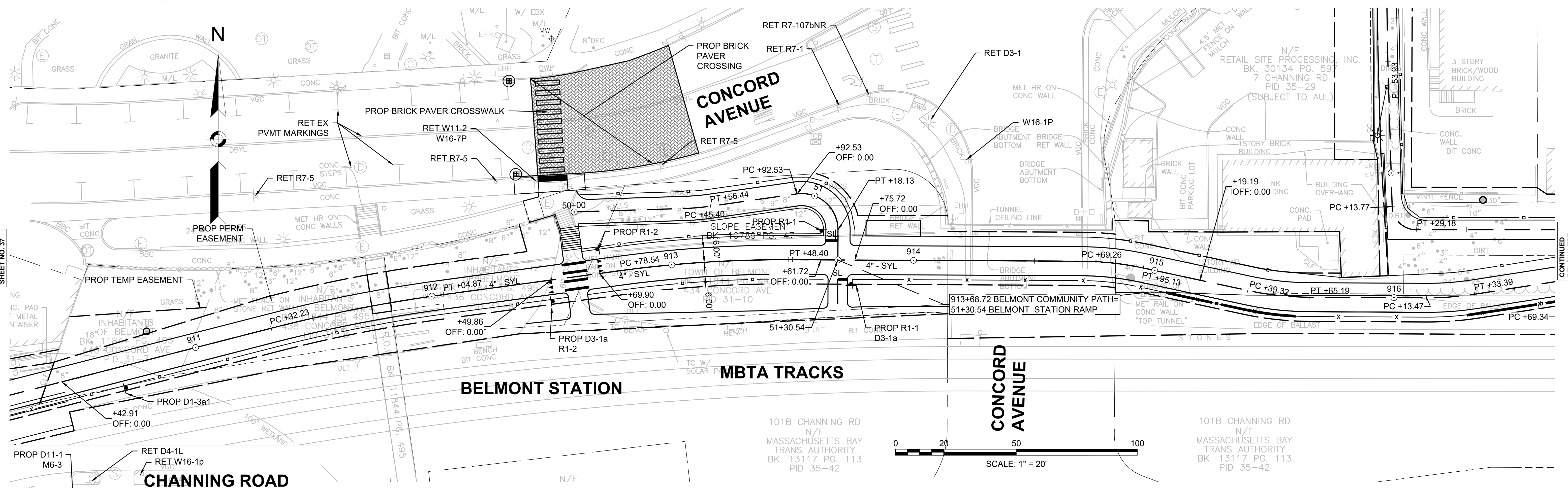


BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRP

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	38	157

PROJECT FILE NO. 609204

TRAFFIC SIGN & PAVEMENT MARKINGS PLANS



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(SIGN & PAVE MARK).dwg

609204\_HD(SIGN & PAVE MARK).DWG

CONTINUED ON SHEET NO. 37

CONTINUED BELOW LEFT

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 39

Nitsch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(SIGN & PAVE MARK).dwg

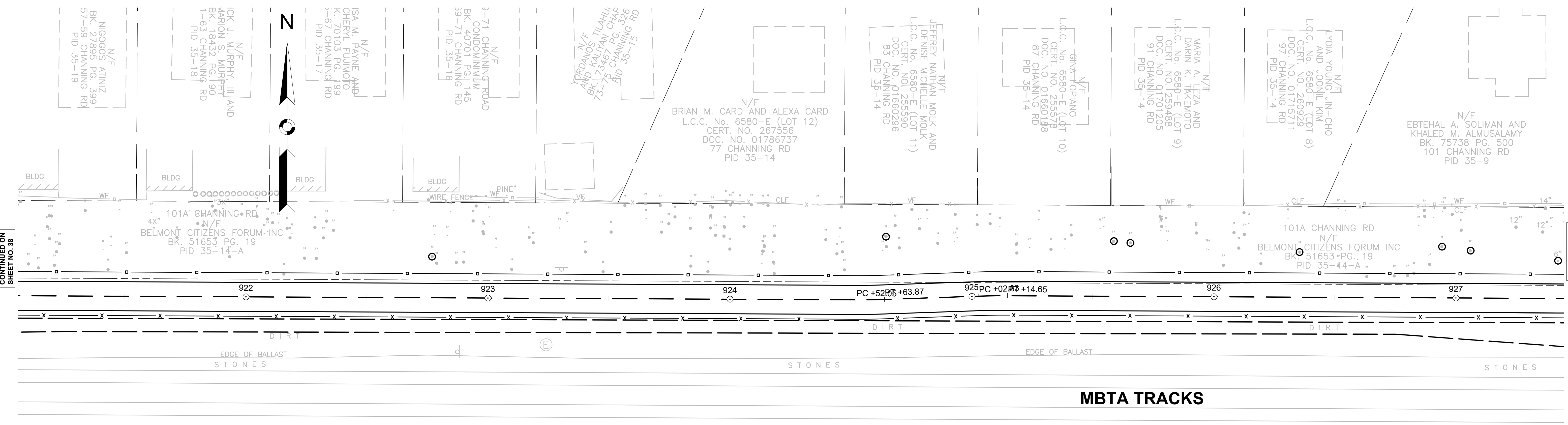
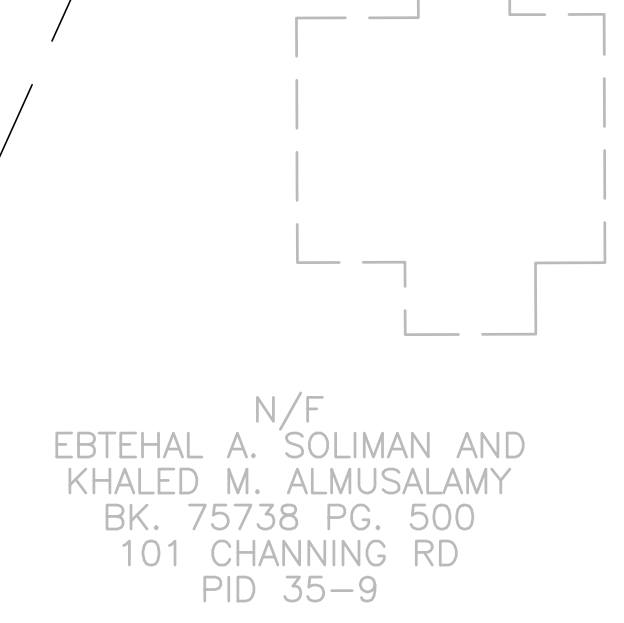
**EXISTING SIGN LEGEND**

NONE

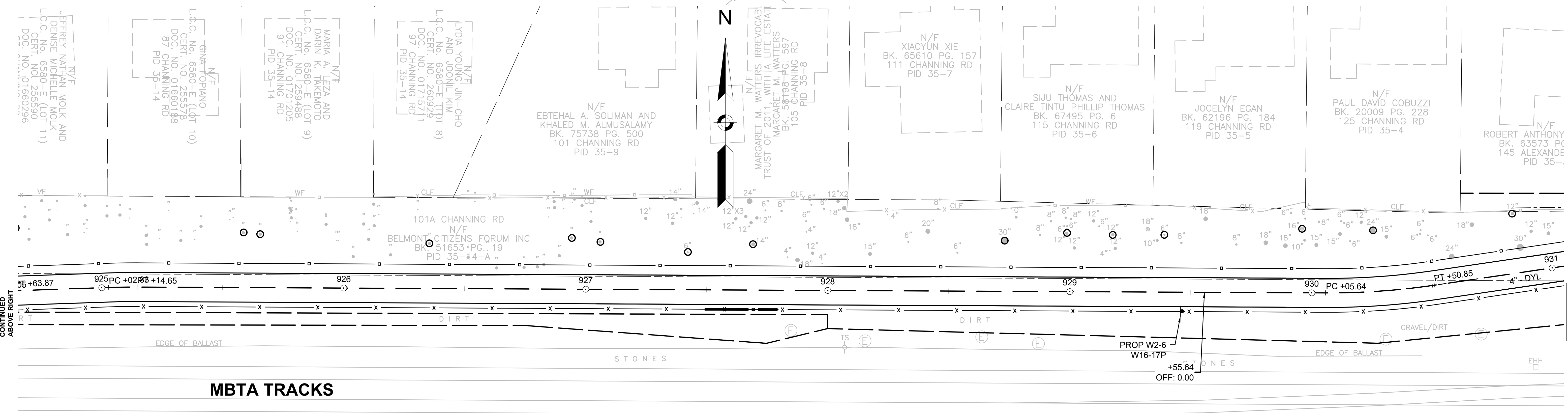
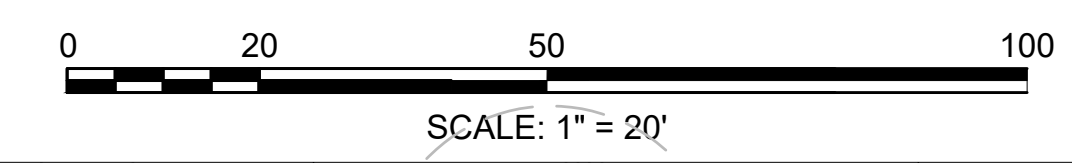
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	39	157

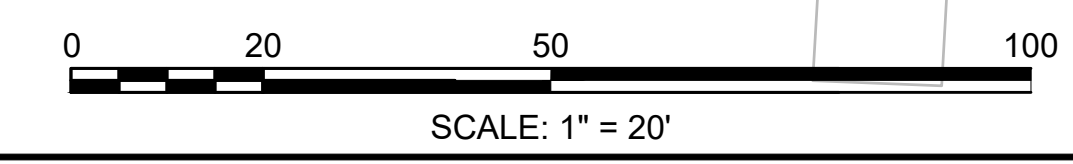
**TRAFFIC SIGN & PAVEMENT  
MARKINGS PLANS**



**MBTA TRACKS**



**MBTA TRACKS**



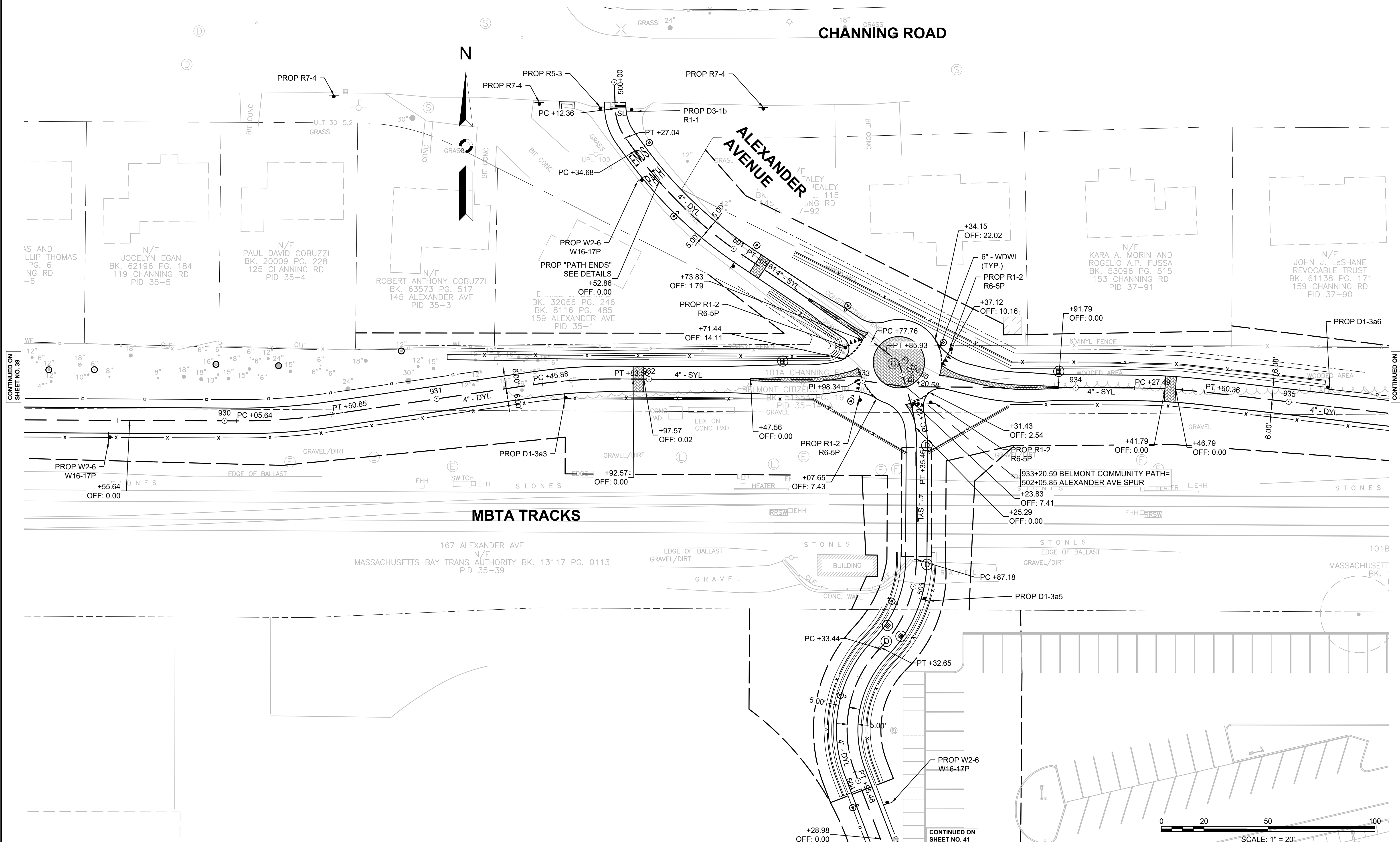
609204\_HD(SIGN & PAVE MARK).DWG Plotted on

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	40	157

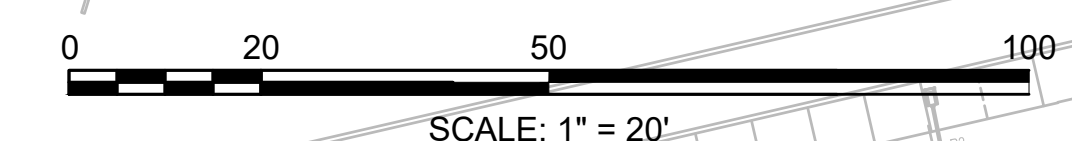
PROJECT FILE NO. 609204  
**TRAFFIC SIGN & PAVEMENT  
MARKINGS PLANS**

Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(SIGN & PAVE MARK).dwg



CONTINUED ON  
SHEET NO. 39

CONTINUED ON  
SHEET NO. 41



609204\_HD(SIGN & PAVE MARK).DWG



Nitch - P:\10000-14999\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(SIGN & PAVE MARK).dwg

609204\_HD(SIGN & PAVE MARK).DWG

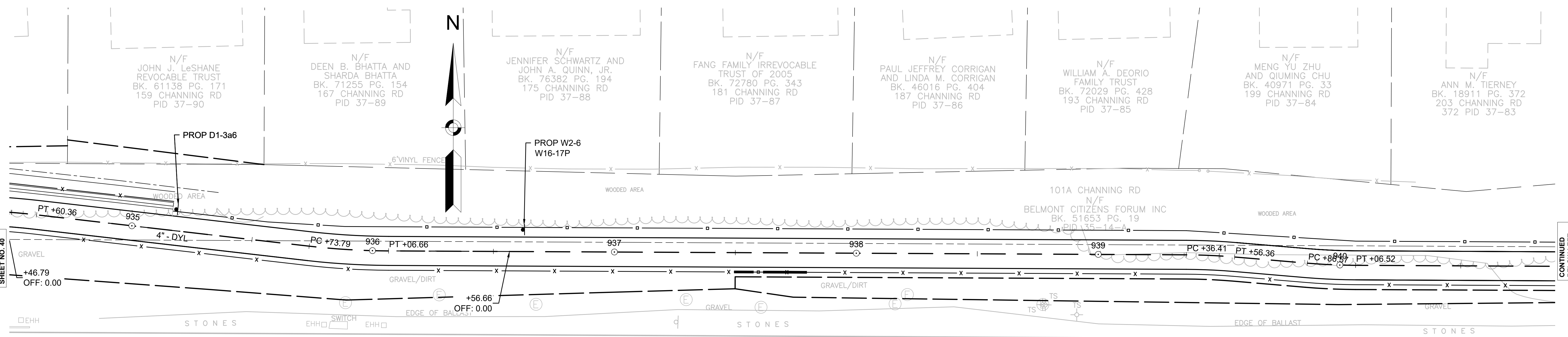
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	41	157

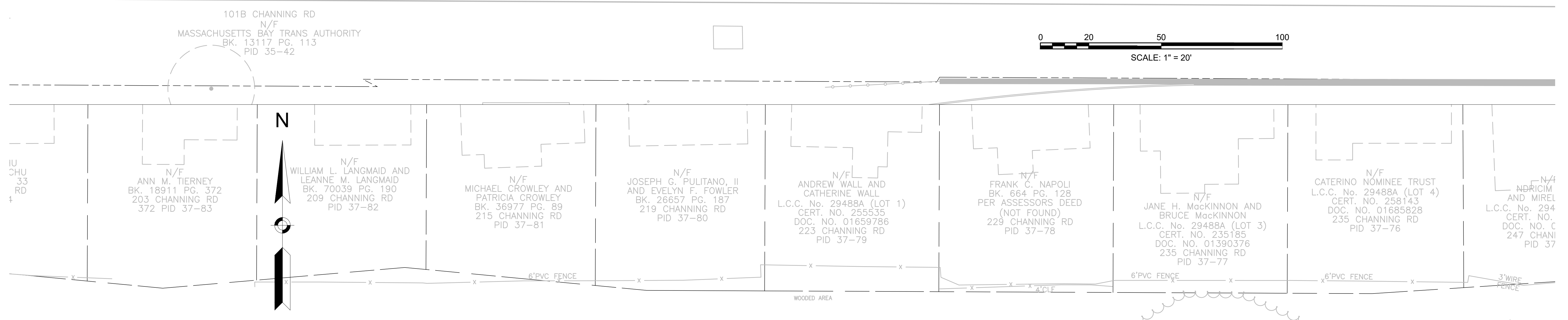
**TRAFFIC SIGN & PAVEMENT  
MARKINGS PLANS**

**EXISTING SIGN LEGEND**

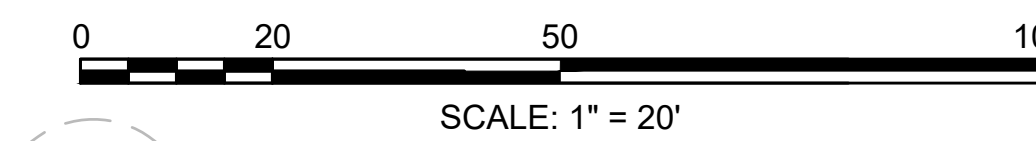
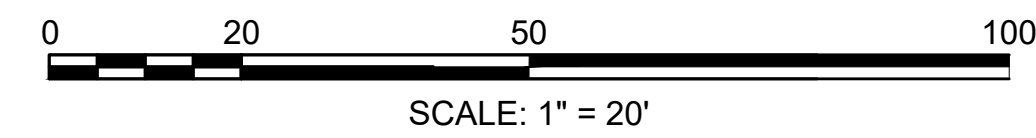
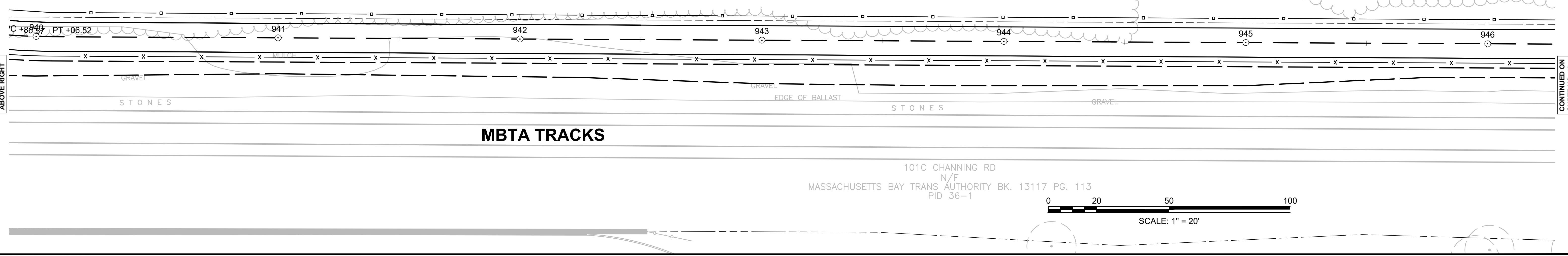
NONE



**MBTA TRACKS**



**MBTA TRACKS**



CONTINUED ON SHEET NO. 40

CONTINUED BELOW LEFT

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 42

EXISTING SIGN LEGEND

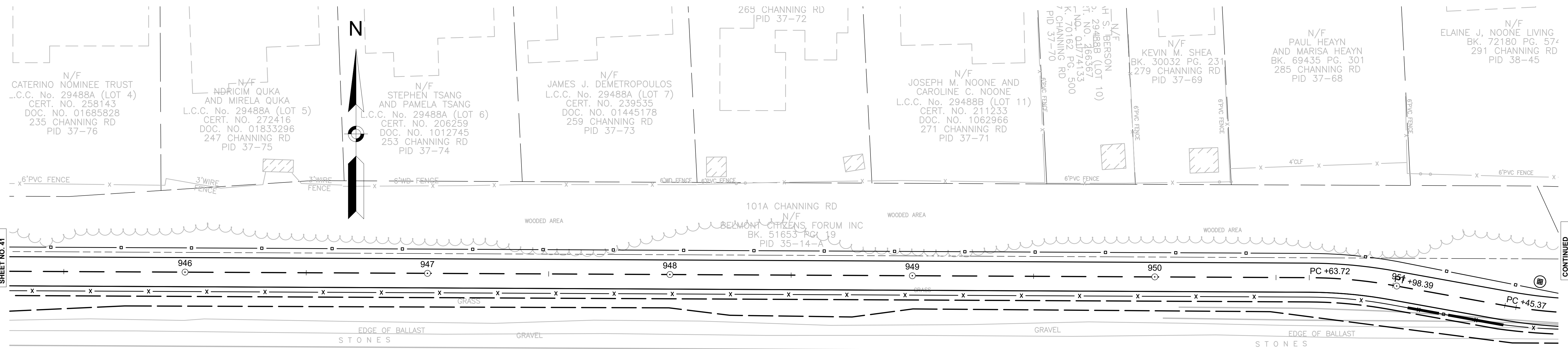
NONE

BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT

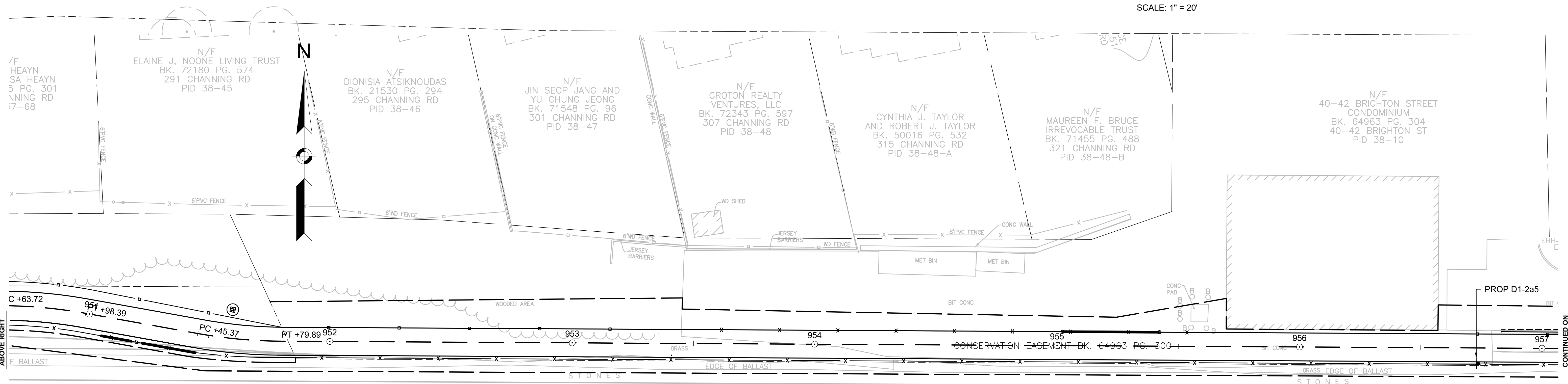
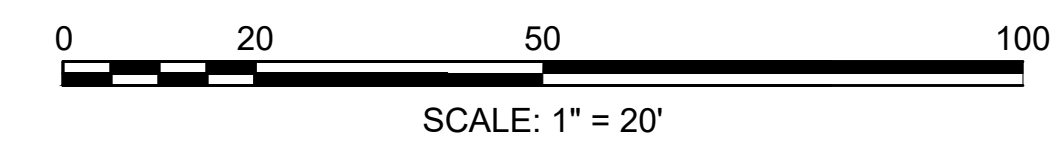
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	42	157

TRAFFIC SIGN & PAVEMENT  
MARKINGS PLANS

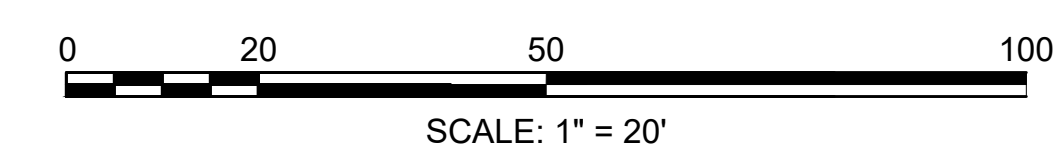
PROJECT FILE NO. 609204



MBTA TRACKS



MBTA TRACKS



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(SIGN & PAVE MARK).dwg

609204\_HD(SIGN & PAVE MARK).DWG

CONTINUED ON  
SHEET NO. 41

CONTINUED  
BELOW LEFT

CONTINUED  
ABOVE RIGHT

CONTINUED ON  
SHEET NO. 43

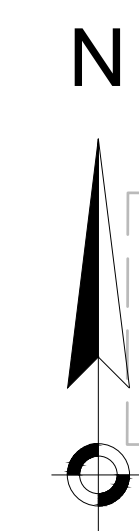
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	43	157
PROJECT FILE NO.		609204	

**TRAFFIC SIGN & PAVEMENT  
MARKINGS PLANS**

**EXISTING SIGN LEGEND**

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



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

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

**FITCHBURG CUTOFF**

MASSACHUSETTS BAY TRANS. AUTHORITY  
959+54.75 BELMONT COMMUNITY PATH=  
201+73.42 BRIGHTON ST

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

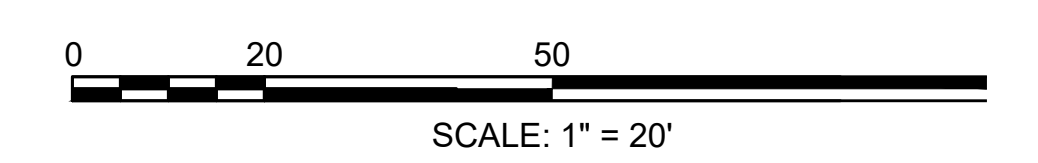
**MBTA TRACKS**

**BRIGHTON STREET**

Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(SIGN & PAVE MARK).dwg -----

CONTINUED ON  
SHEET NO. 42

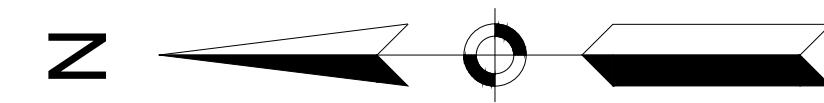
609204\_HD(SIGN & PAVE MARK).DWG



**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	44	157

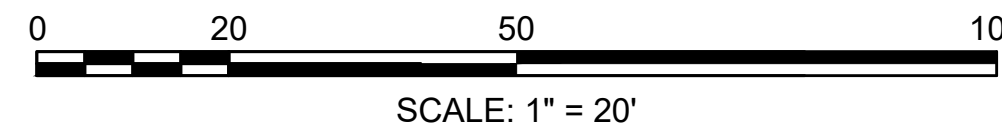
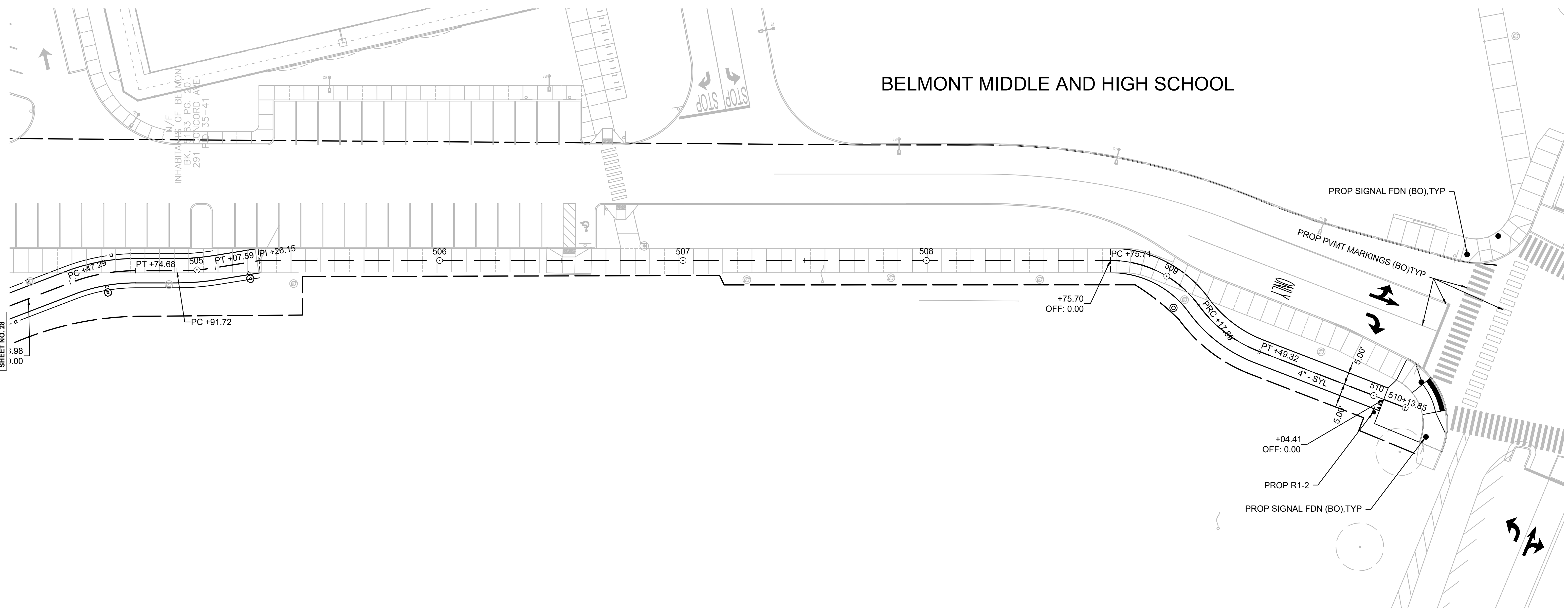
PROJECT FILE NO. 609204  
**TRAFFIC SIGN & PAVEMENT  
MARKINGS PLANS**



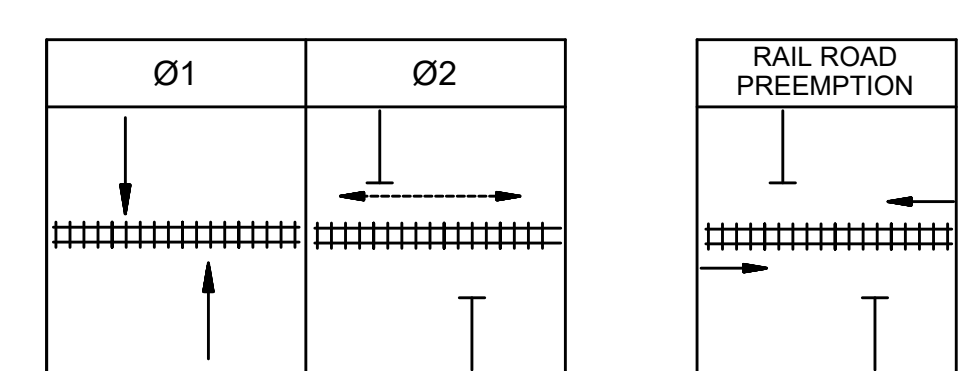
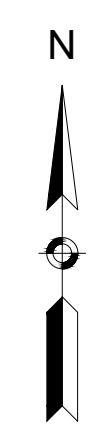
**BELMONT MIDDLE AND HIGH SCHOOL**

Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204\_HD(SIGN & PAVE MARK).dwg -----

CONTINUED ON  
SHEET NO. 28



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



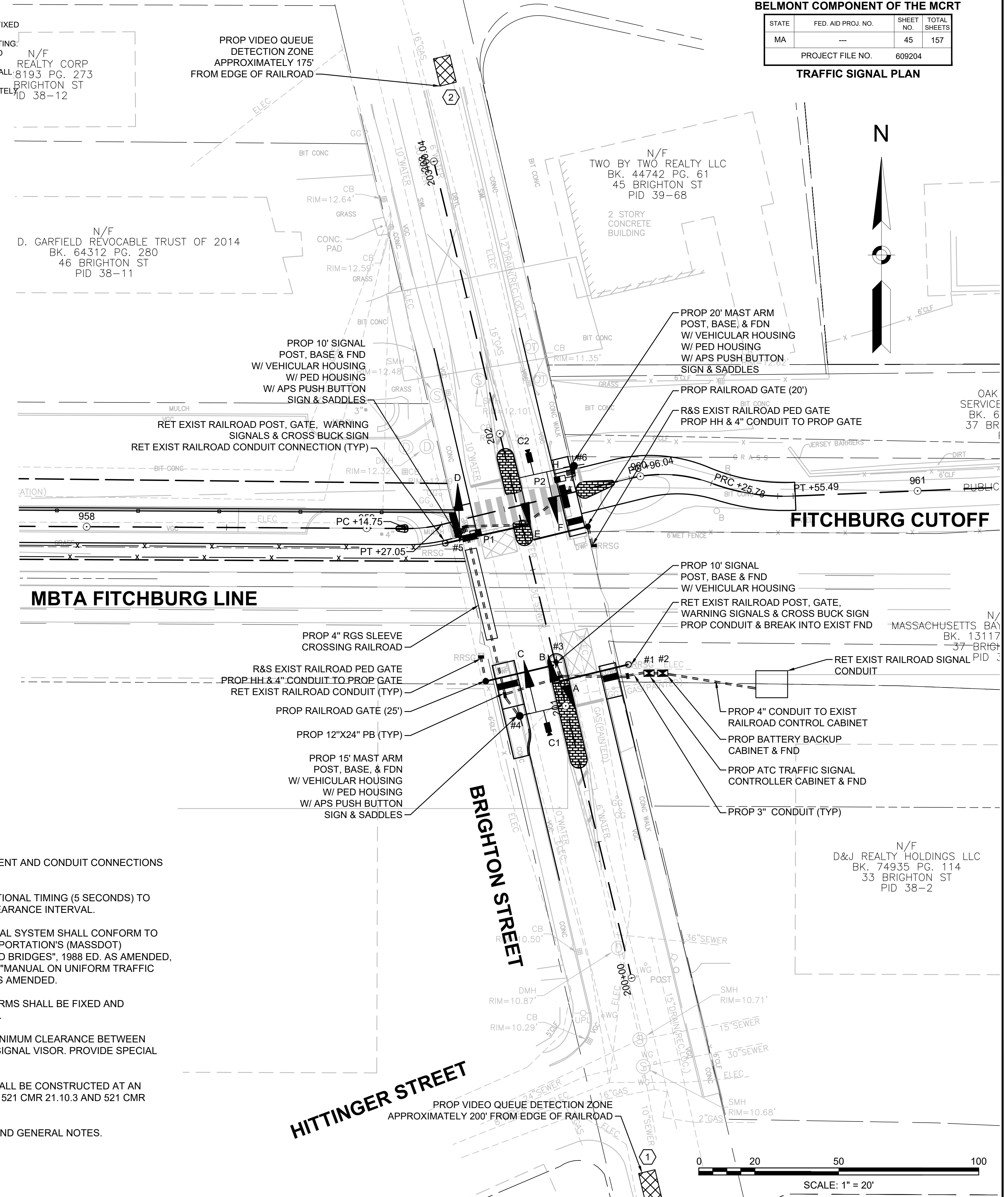
- RAIL ROAD PREEMPTION OPERATION:**
- \* TIMING TO BE DETERMINED BY RAILROAD DETECTION OR FIXED SCHEDULE BY MBTA.
  - ADVANCED CALL SHALL BE 5 SECONDS EARLIER THAN EXISTING.
  - UPON RECEIPT OF AN ADVANCED CALL FROM THE RAILROAD THE CURRENT SIGNAL FACES (VEHICULAR OR PEDESTRIAN) IMMEDIATELY DISPLAYS CLEARANCE INTERVALS (YELLOW / ALL RED OR FLASHING DON'T WALK/DON'T WALK).
  - RAILROAD FLASHING WARNING SIGNALS ACTIVATE IMMEDIATELY AFTER THE TRAFFIC SIGNAL CLEARANCE INTERVAL.

SEQUENCE AND TIMING FOR FULL ACTUATED CONTROL (ISOLATED)

STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	FLASH OPER.	7	8	9
BRIGHTON STREET	NB	A, E, F	G	Y	R	R	R	R	FY	R	R	R
BRIGHTON STREET	SB	B, C, D	G	Y	R	R	R	R	FY	R	R	R
PEDESTRIAN CROSSING	EB-WB	P1,P2	DW	DW	DW	W	FDW	DW	OFF	DW	DW	DW

TIMING IN SECONDS		EMERGENCY ONLY	PREEMPTION
MINIMUM GREEN (INITIAL)	PASSAGE TIME (VEHICLE)		
10	3		
40	40		
40	40		
3			
	2		
		7	4
		5	4
	MAX	OFF	
	NON-LOCKING	LOCKING	

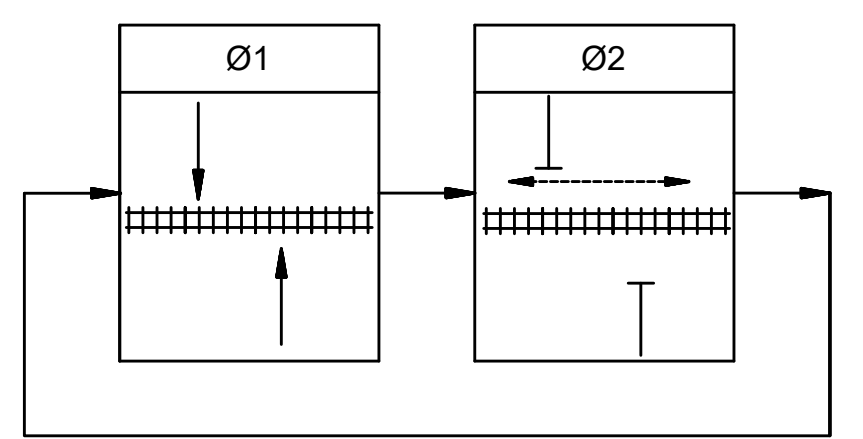


**VIDEO QUEUE DETECTION DATA**

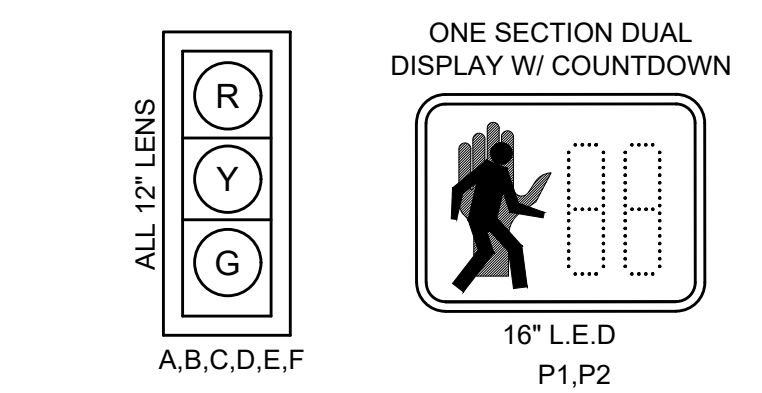
DETECTOR ZONE NUMBER	CAMERA NUMBER	Ø CALLED	Ø EXT.	DELAY TIME (s)	EXT. TIME (s)
1	C1	2	-	5	-
2	C2	2	-	5	-

WHEN QUEUE DETECTION SEND SIGNAL TO THE CONTROLLER, THE VEHICULAR SIGNAL FACES IMMEDIATELY DISPLAYS CLEARANCE INTERVALS (YELLOW AND ALL RED) AFTER THE PHASE HAS SERVED ITS MINIMUM GREEN TIME (10 SECONDS).

**PREFERENTIAL PHASING SEQUENCE**



**PROPOSED SIGNAL INDICATION**



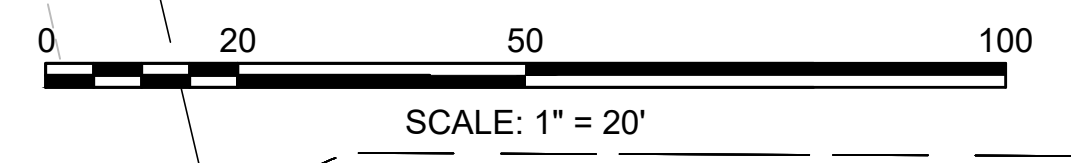
- NOTES:**
- ALL SIGNALS SHALL HAVE CUTAWAY TUNNEL VISORS.
  - ALL SIGNALS SHALL BE 12" LED WITH 5" NON-LOUVERED BACKPLATES.
  - ALL BACKPLATES SHALL HAVE A 3" RETROREFLECTIVE BORDER.

PAY ITEM	QUANTITY	ITEM
816.01	1	ATC CONTROLLER, SIZE P CABINET
	1	BATTERY BACKUP, SIZE M CABINET
	1	8' PED SIGNAL POLE, BASE, & FDN.
	2	10' SIGNAL POLE, BASE, & FDN.
	1	15 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY , BASE & FDN.
	1	20 FT TYPE II, GALV. STEEL MAST ARM ASSEMBLY , BASE & FDN.
	6	1 WAY, 3 SECTION, SIGNAL HOUSING (12" L.E.D.)
	6	5" 3-SECTION BACKPLATES (NON-LOUVERED) WITH 3" RETROREFLECTIVE BORDER
	2	16" PEDESTRIAN COUNTDOWN HOUSING, TYPE L.E.D. (INT'L SYMBOL)
	2	PEDESTRIAN PUSH BUTTON, SIGN & SADDLES (APS)
	1	VIDEO DETECTION SYSTEM (2 CAMERA)
	1	20' RAILROAD GATE W/POST & FND
811.32	6	12" X 24" PULL BOX (MASSDOT)

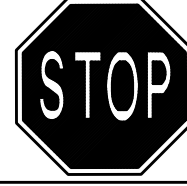
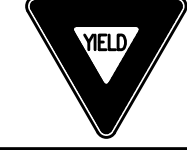








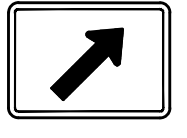
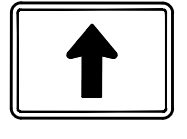


Plus all necessary duct, cable, labor, miscellaneous material and equipment to complete the installation.

**TRAFFIC SIGNAL NOTES:**

- RETAIN ALL EXISTING RAILROAD SIGNAL EQUIPMENT AND CONDUIT CONNECTIONS UNLESS OTHERWISE NOTED.
- ADJUST DETECTION WARNING TIMER WITH ADDITIONAL TIMING (5 SECONDS) TO ACCOMMODATE ADVANCED TRAFFIC SIGNAL CLEARANCE INTERVAL.
- CONSTRUCTION OF THE TRAFFIC CONTROL SIGNAL SYSTEM SHALL CONFORM TO THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION'S (MASSDOT) "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", 1988 ED. AS AMENDED, THE 2009 FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", (MUTCD) LATEST EDITION AS AMENDED.
- ALL VEHICLE INDICATIONS MOUNTED ON MAST ARMS SHALL BE FIXED AND EQUIPPED WITH 5" NON-LOUVERED BACKPLATES.
- POLE MOUNTED SIGNALS SHALL HAVE 2 FOOT MINIMUM CLEARANCE BETWEEN VERTICAL PROJECTION OF THE CURB LINE AND SIGNAL VISOR. PROVIDE SPECIAL MOUNTING HARDWARE AS REQUIRED.
- 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.
- SEE SHEETS 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.



# PROPOSED TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED <sup>②</sup>	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
R1-1	18"	18"		①	①	①	5	RED	WHITE	WHITE	P-5 4 REQ'D	2.25	10.25
R1-2	18"	18"					7	WHITE	RED	RED	P-5 7 REQ'D	1.125	7.875
R5-3	24"	24"					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
R7-4	12"	18"					3	WHITE	RED	RED	P-5 3 REQ'D	1.50	4.50
R8-8	24"	30"					1	WHITE	BLACK	BLACK	P-5 1 REQ'D	2.25	9.00
D1-1AX	VARIES	6"	SEE SIGN DETAILS SHEET 47				1	GREEN	WHITE	WHITE	MTD W/ D11-1	---	---
D1-2AX	VARIES	12"	SEE SIGN DETAILS SHEET 47				6	GREEN	WHITE	WHITE	P-5 4 REQ'D	---	---
D1-3AX	VARIES	18"	SEE SIGN DETAILS SHEET 47				6	GREEN	WHITE	WHITE	P-5 6 REQ'D	---	---
D3-1A	VARIES	6"					1	GREEN	WHITE	WHITE	MTD W/ R1-1	---	---
D3-1B	VARIES	6"					2	GREEN	WHITE	WHITE	P-5 1 REQ'D	---	---
D3-1D	VARIES	6"					2	GREEN	WHITE	WHITE	P-5 1 REQ'D	---	---
D11-1	24"	18"					3	GREEN	WHITE	WHITE	P-5 3 REQ'D	---	---
M6-2	21"	15"					1	GREEN	WHITE	WHITE	MTD W/ D11-1	---	---
M6-3	21"	15"					1	GREEN	WHITE	WHITE	MTD W/ D11-1	---	---
W2-6	18"	18"					4	YELLOW	BLACK	BLACK	P-5 3 REQ'D	2.25	9.00
W16-17P	12"	6"		↓	↓	↓	4	FLUOR-ESCENT YELLOW	BLACK	BLACK	MOUNT W/ W11-2	0.50	2.00

① SEE MUTCD 2009 EDITION, 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 MOUNTED ON P-5 POSTS SHALL BE ORDERED TWO SIGNS PER LOCATION AND SHALL BE MOUNTED WITH BOLT-THROUGH METHOD.

④ CONTRACTOR TO COORDINATE WITH BROCKTON AREA TRANSIT AUTHORITY (BAT) FOR BUS STOP SIGN STANDARDS.

⑤ CONTRACTOR TO COORDINATE WITH TOWN OF STOUGHTON FOR SEAL.

## BELMONT COMMUNITY PATH - PHASE 1 BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	46	157
PROJECT FILE NO.		609204	

### TRAFFIC SIGN SUMMARY

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	47	157
PROJECT FILE NO.		609204	

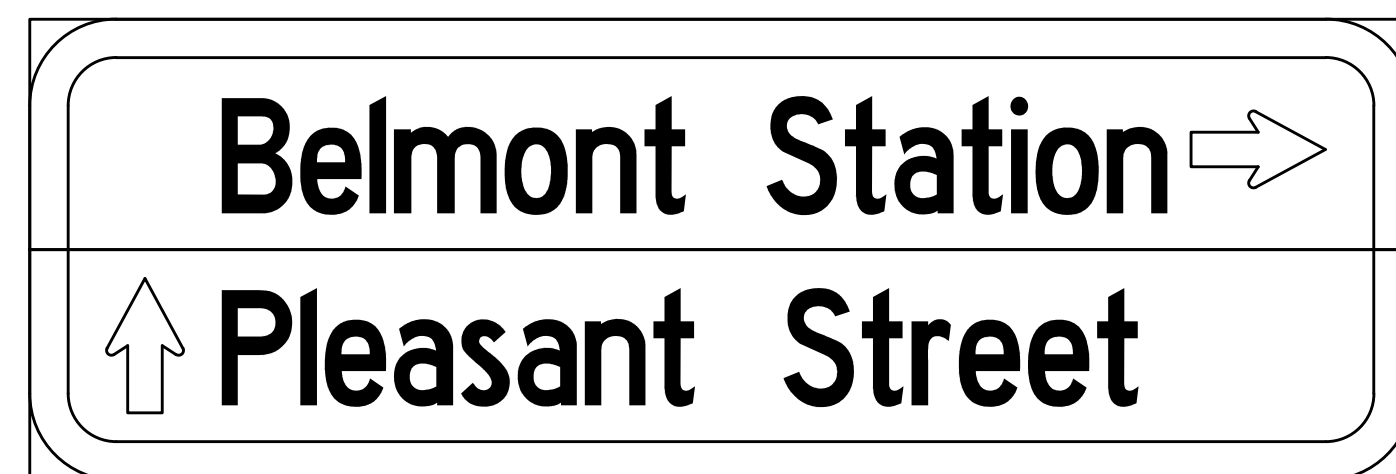
TRAFFIC SIGN DETAILS



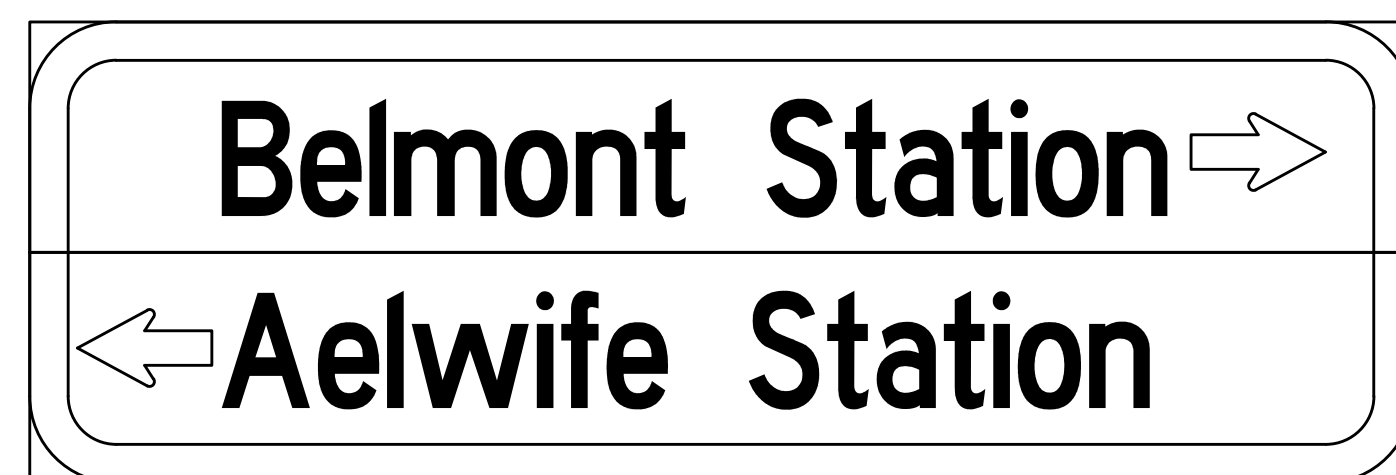
D1-2a1



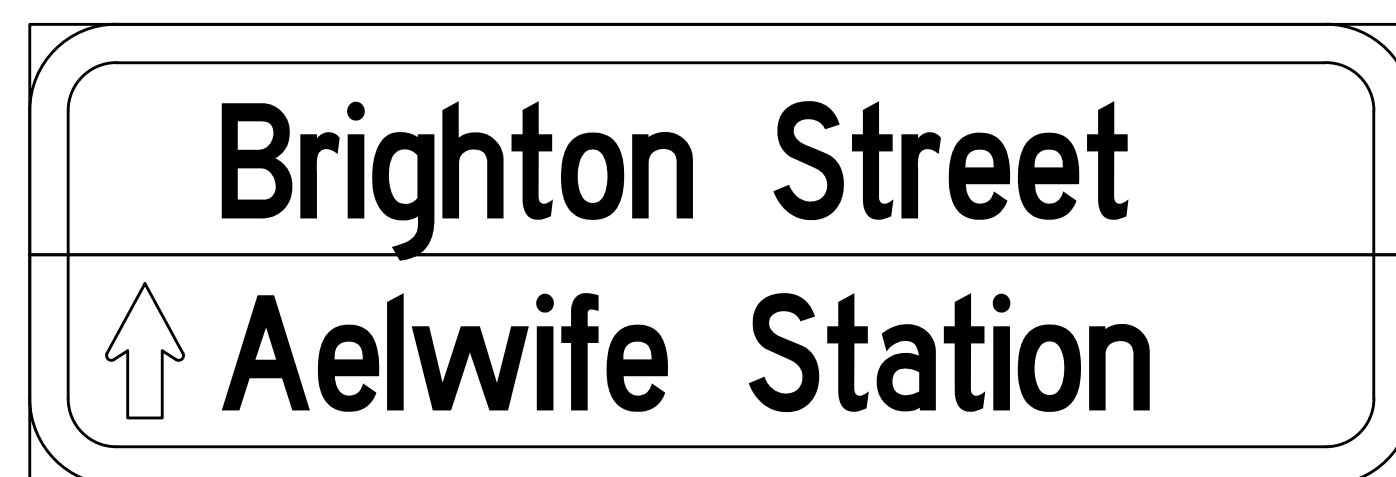
D1-2a2



D1-2a3



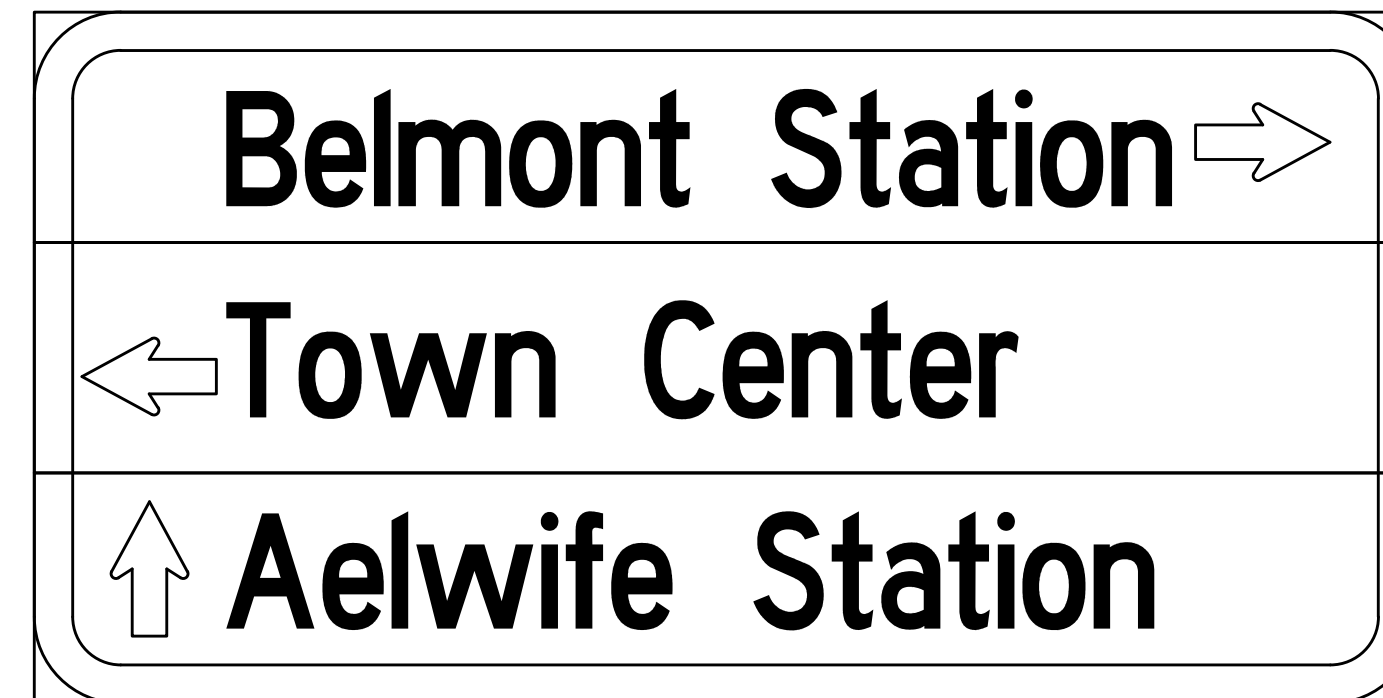
D1-2a4



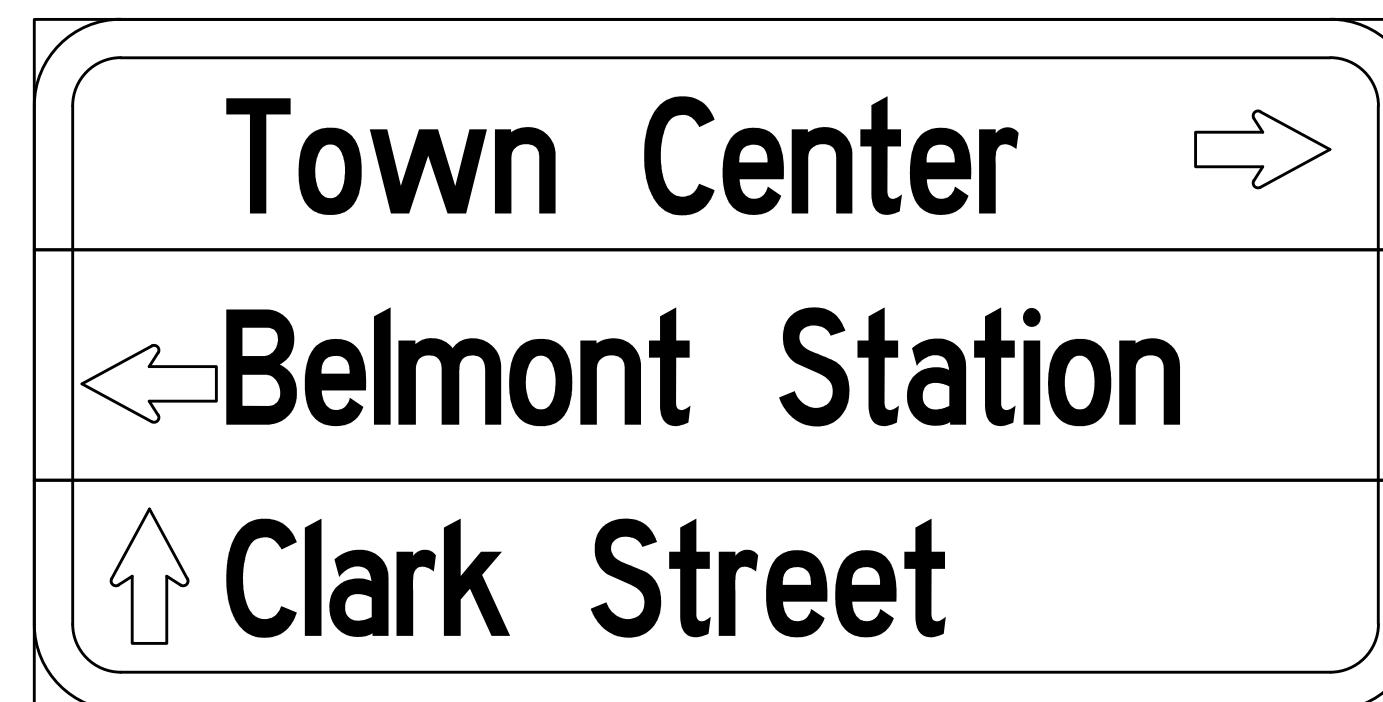
D1-2a5



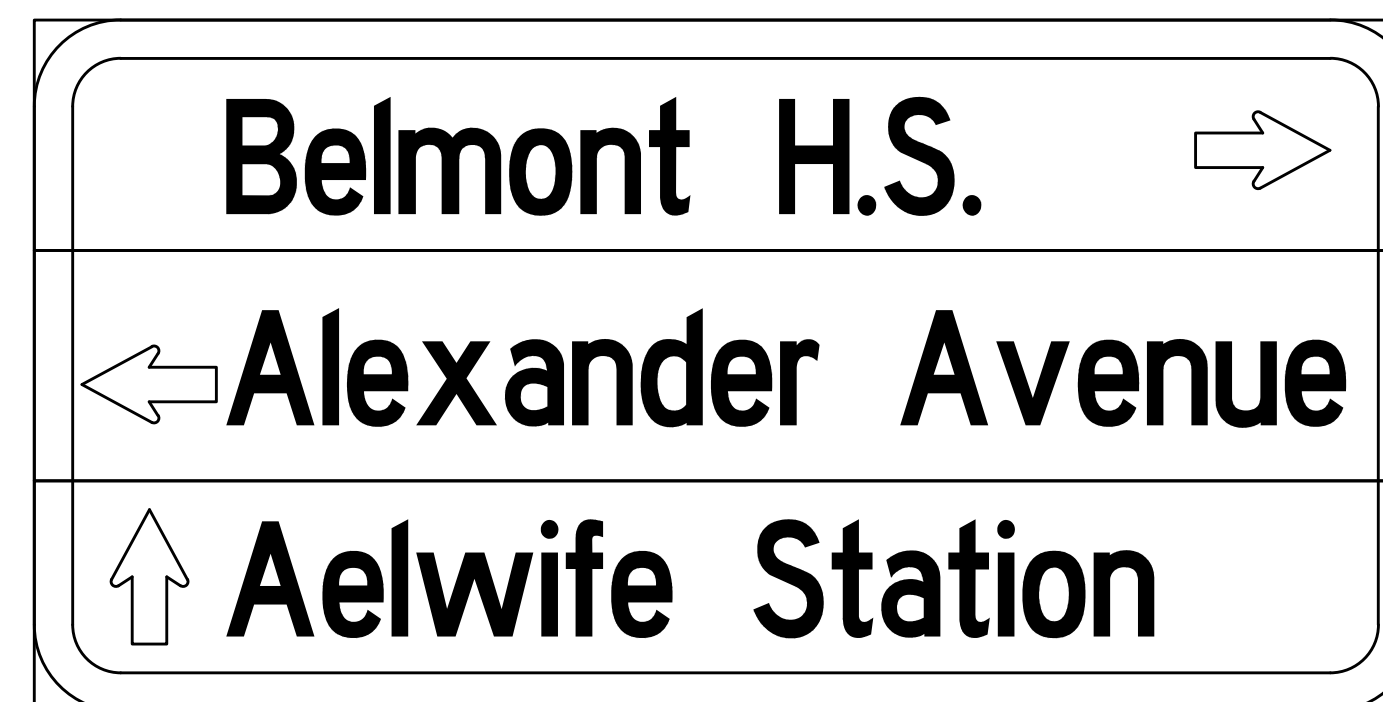
D1-2a6



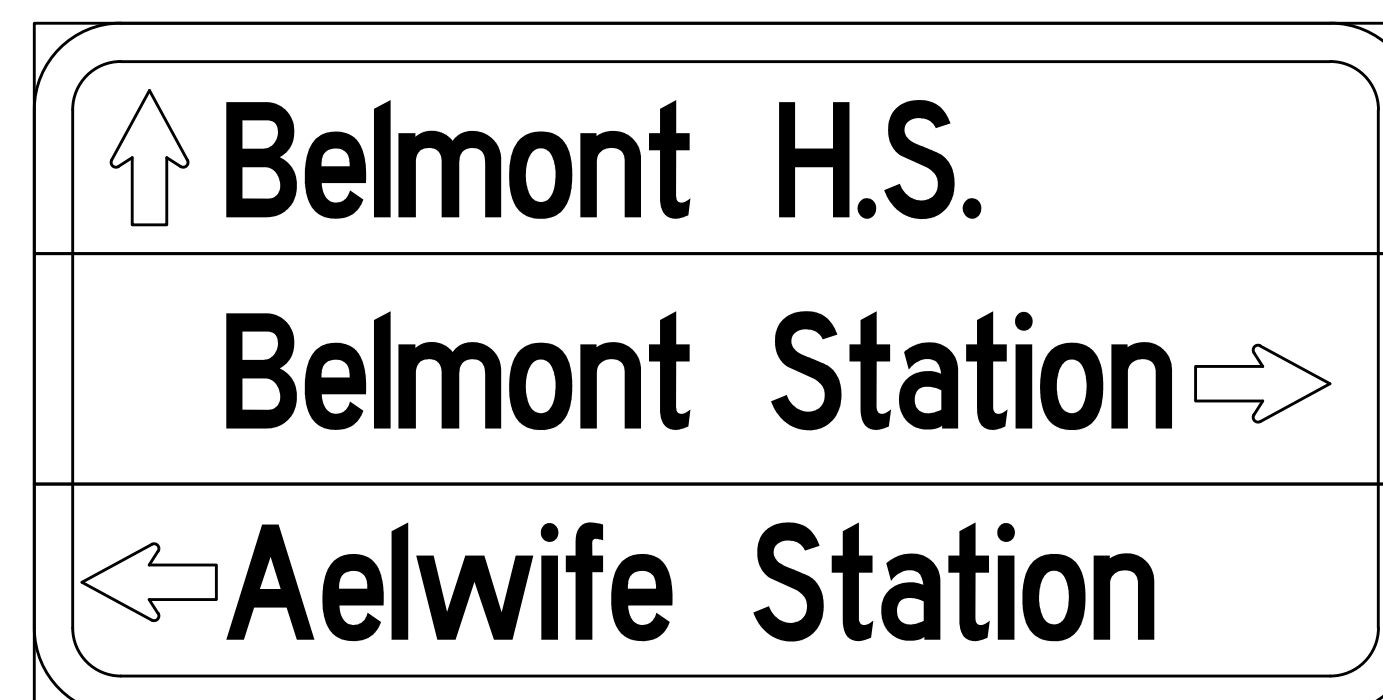
D1-3a1



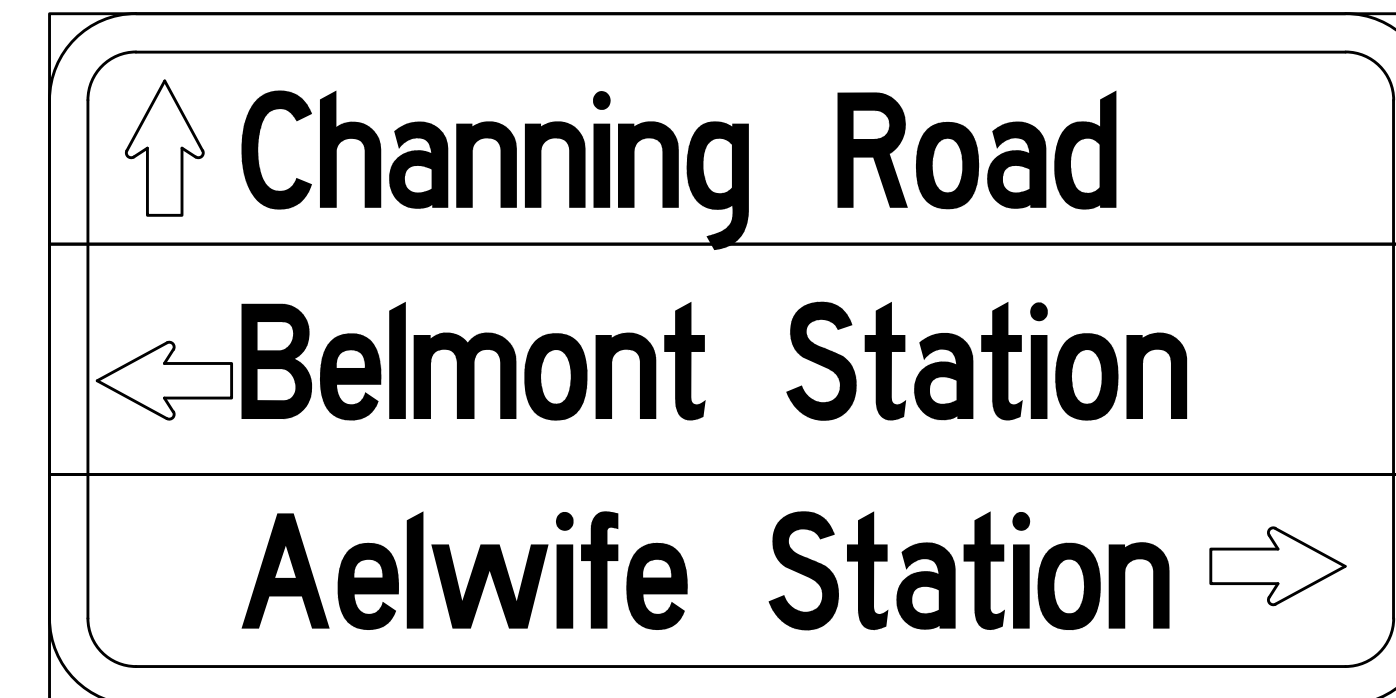
D1-3a2



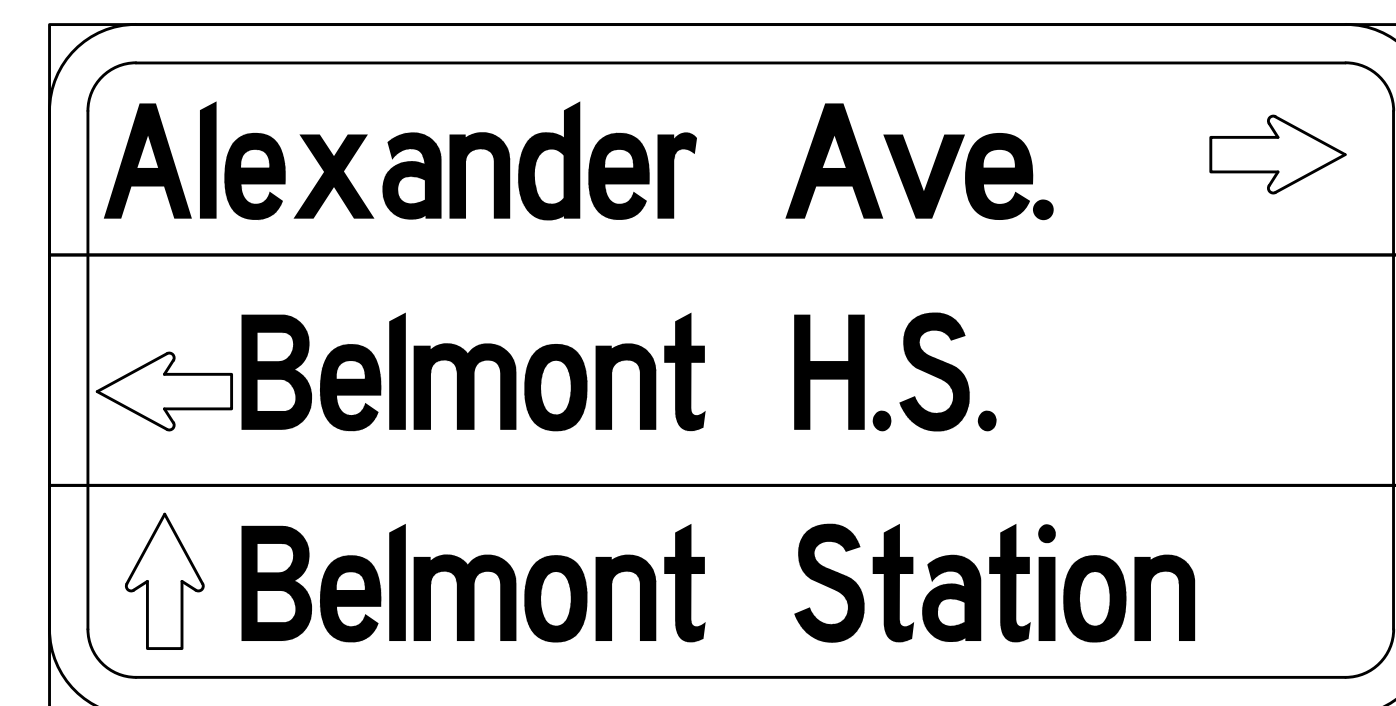
D1-3a3



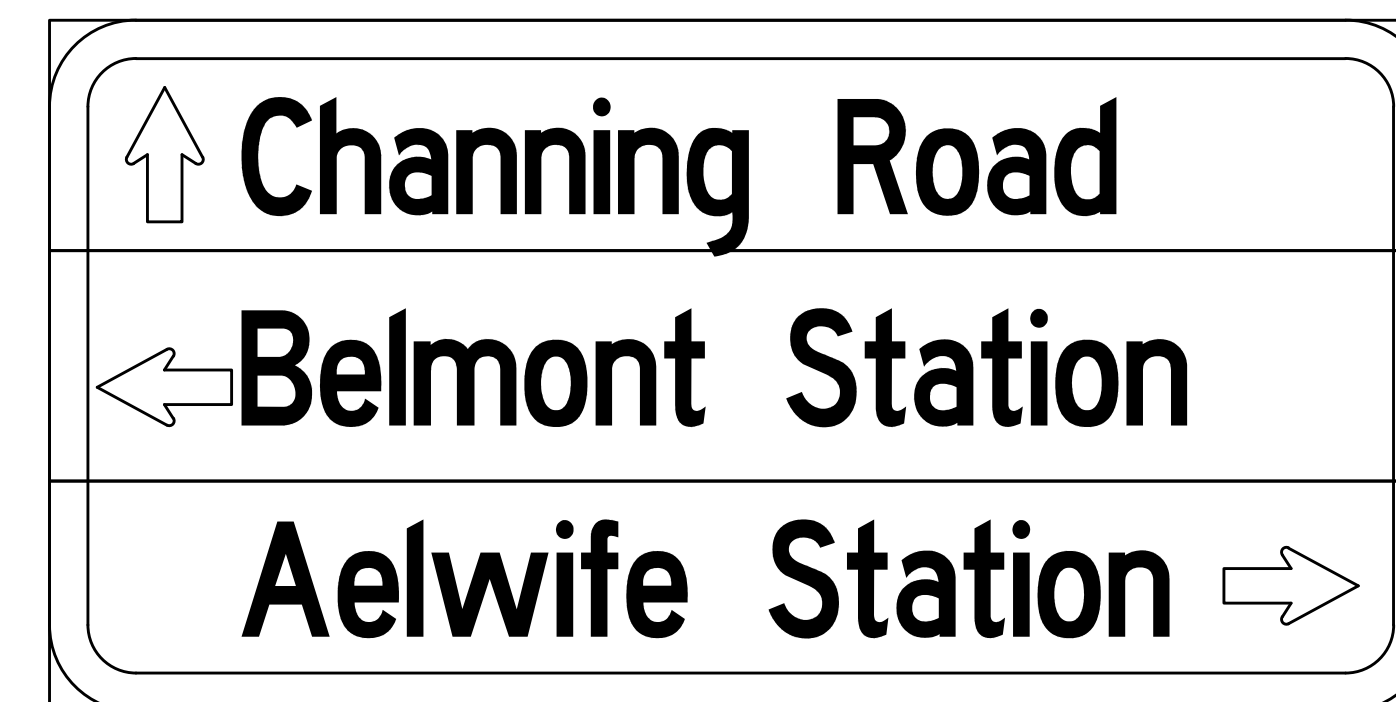
D1-3a4



D1-3a5



D1-3a6



D1-3a7



D1-1a1

**TRAFFIC MANAGEMENT NOTES:**

- 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.
- 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.
- NO CONSTRUCTION VEHICLES SHALL BE PARKED WITHIN THE TRAVEL WAY WITHOUT PROPER PROTECTION AND APPROVAL OF THE ENGINEER.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL PROVIDE IMMEDIATE ACCESS TO EMERGENCY VEHICLES AT ALL TIMES.
- GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF DRUMS.
- 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.
- CONSTRUCTION SIGNS NOT APPLICABLE TO VARIOUS STAGES OF CONSTRUCTION SHALL BE REMOVED OR COVERED.
- 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.
- 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.
- ALL CONSTRUCTION SIGNING AND OTHER TRAFFIC MAINTENANCE DEVICES SHALL CONFORM WITH THE 2009 MUTCD AS AMENDED, MASH, AND MASSDOT STANDARDS.
- 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.
- ALL DISTANCES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. HOWEVER, MINIMUM DISTANCES, WHERE INDICATED, SHOULD BE MAINTAINED.
- 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.
- ALL DRUMS WITH FLASHERS, SIGNS AND SIGN SUPPORTS MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 AND MASH RECOMMENDED PROCEDURES FOR THE SAFETY EVALUATION OF HIGHWAY FEATURES.
- MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH WILL BE MEASURED FROM THE EDGE OF DRUMS OR CONES.
- ORANGE CONSTRUCTION FLAGS MAY BE USED ON ADVANCE WARNING SIGNS AS DIRECTED BY THE ENGINEER. FLAGS SHALL BE A MINIMUM OF 16" X 16".
- MAINTAIN EXISTING PAVEMENT MARKINGS WHERE APPLICABLE. WHEN LANES SHIFT, IF NECESSARY, EXISTING MARKINGS SHALL BE REMOVED AND TEMPORARY PAVEMENT MARKING SHALL BE PROVIDED.
- 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.
- 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.
- 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.)
- CHANNELIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF REFLECTORIZED PLASTIC DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS.
- THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A SEQUENTIAL FLASHING WARNING LIGHTS.
- POLICE DETAIL SHALL BE USED WHILE SETTING UP THE TEMPORARY TRAFFIC CONTROL DEVICES ON THE ROADWAY.
- EACH WORK ZONE SHALL HAVE MA-R2-10a, MA-R2-10e, AND W-20 SERIES SIGNS WHERE APPLICABLE.
- 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 12, 2012.
- THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- ALL DRIVEWAYS AND STREETS SHALL REMAIN OPEN AT ALL TIMES EXCEPT FOR SHORT PERIODS AS APPROVED BY THE ENGINEER.
- SEE SHEETS ##, ## AND ## FOR ADDITIONAL TYPICAL TEMPORARY TRAFFIC CONTROL PLAN DETAILS.

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350 (100)	350 (100)	350 (100)
MOST OTHER ROADWAYS*	500 (150)	500 (150)	500 (150)
FREEWAYS AND EXPRESSWAYS*	1,000 (300)	1,500 (450)	2,640 (800)

\* 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 TTC 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.(15 m) 100 FT(30 m) MAX.
DOWNSTREAM TAPER	50 FT MIN.(15 m) 100 FT MAX.(30 m) 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 ANTICIPATED OPERATING SPEED IN MPH (KM/H)

**STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED**

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

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

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

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

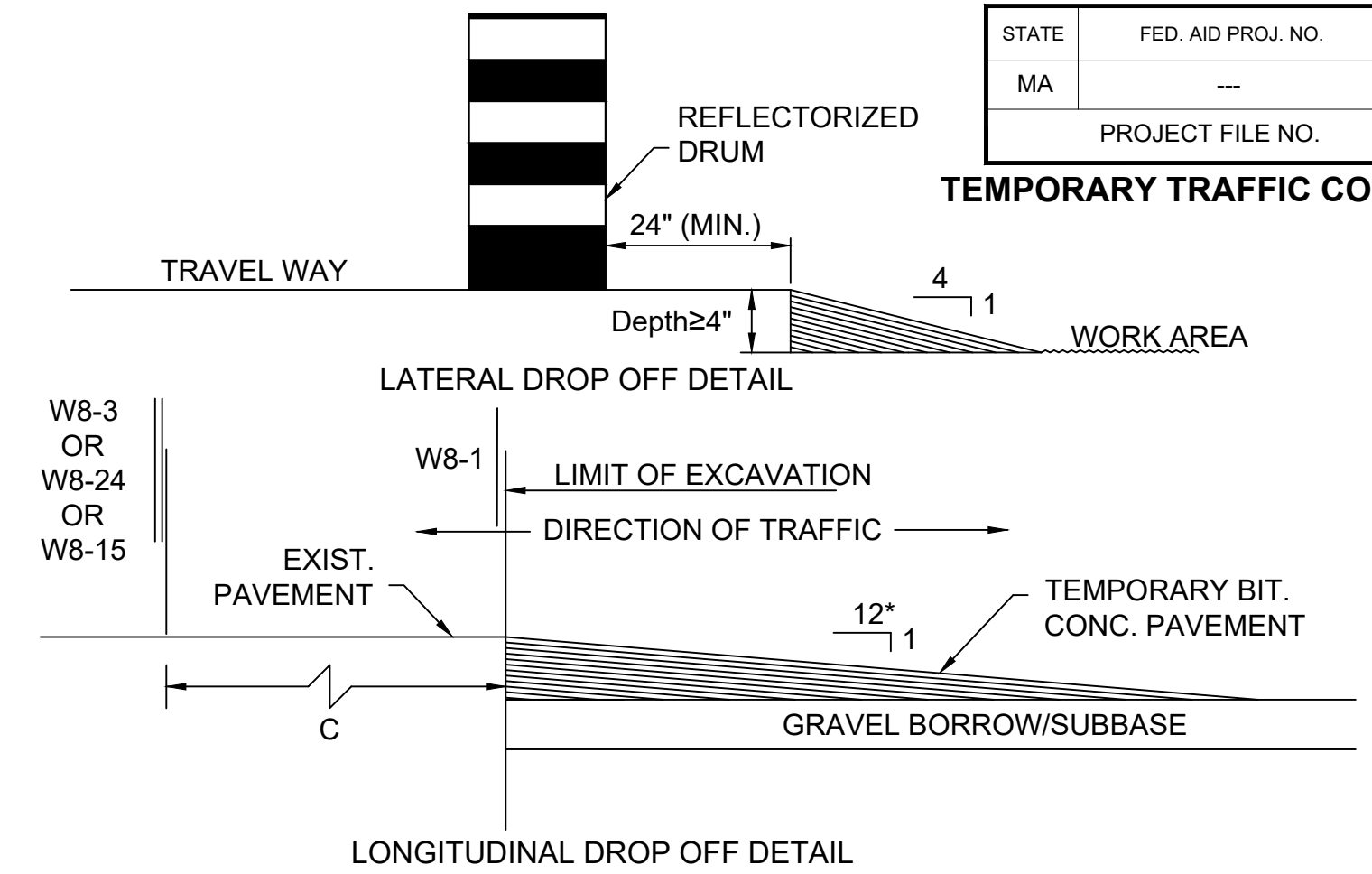
**LEGEND:**

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

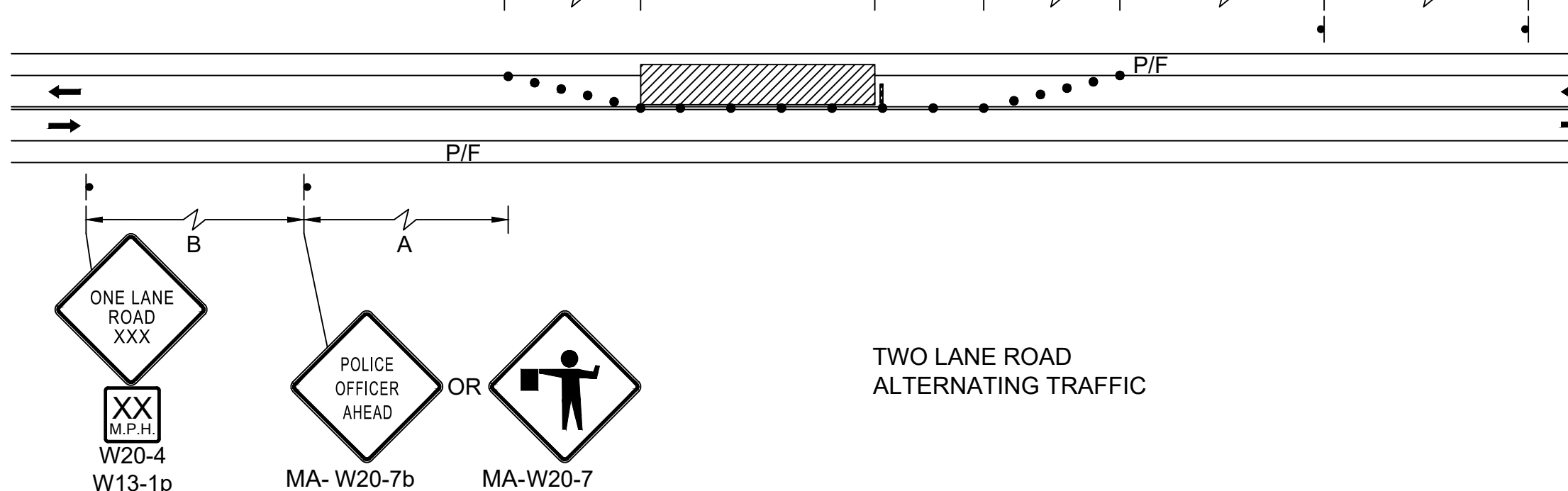
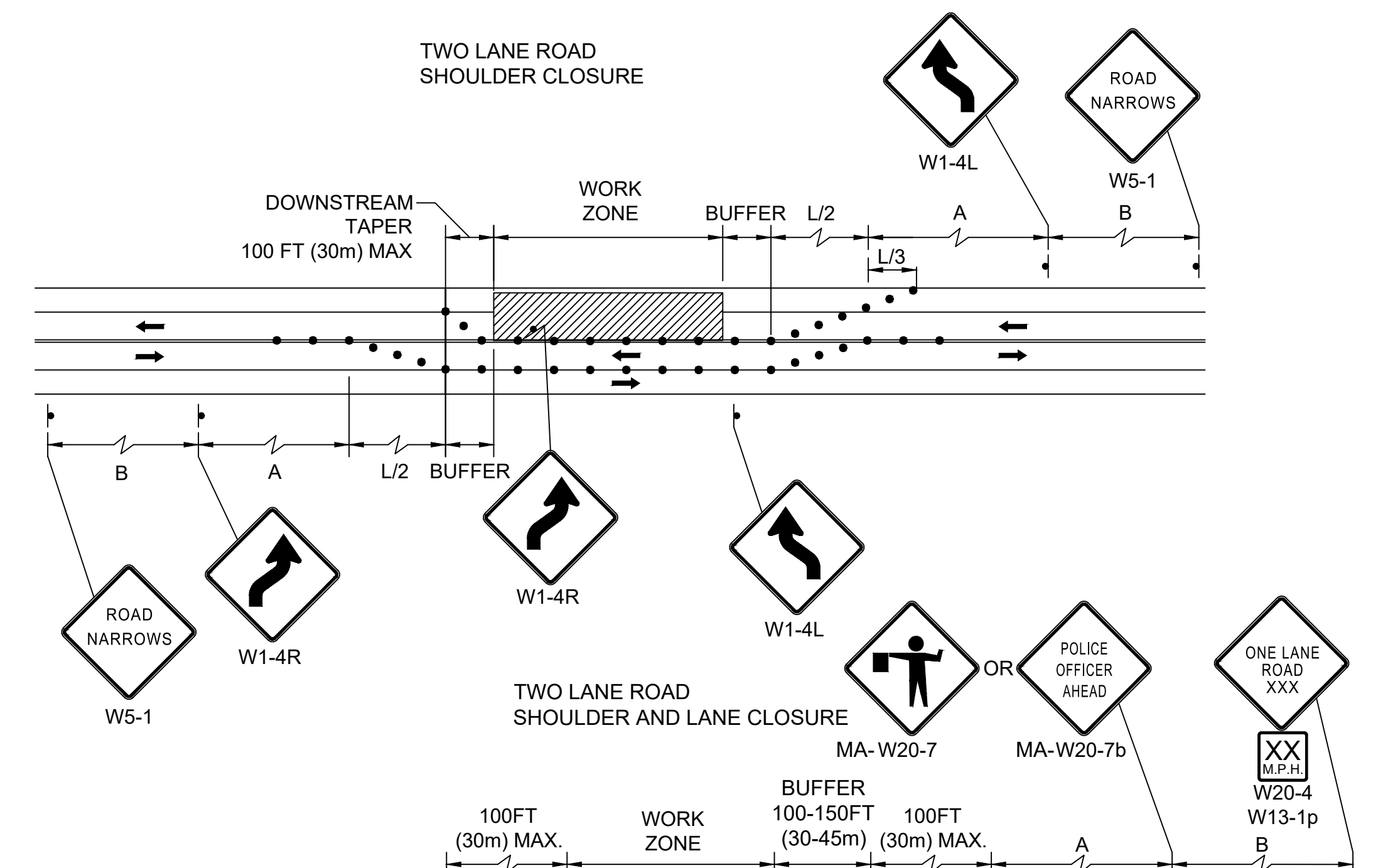
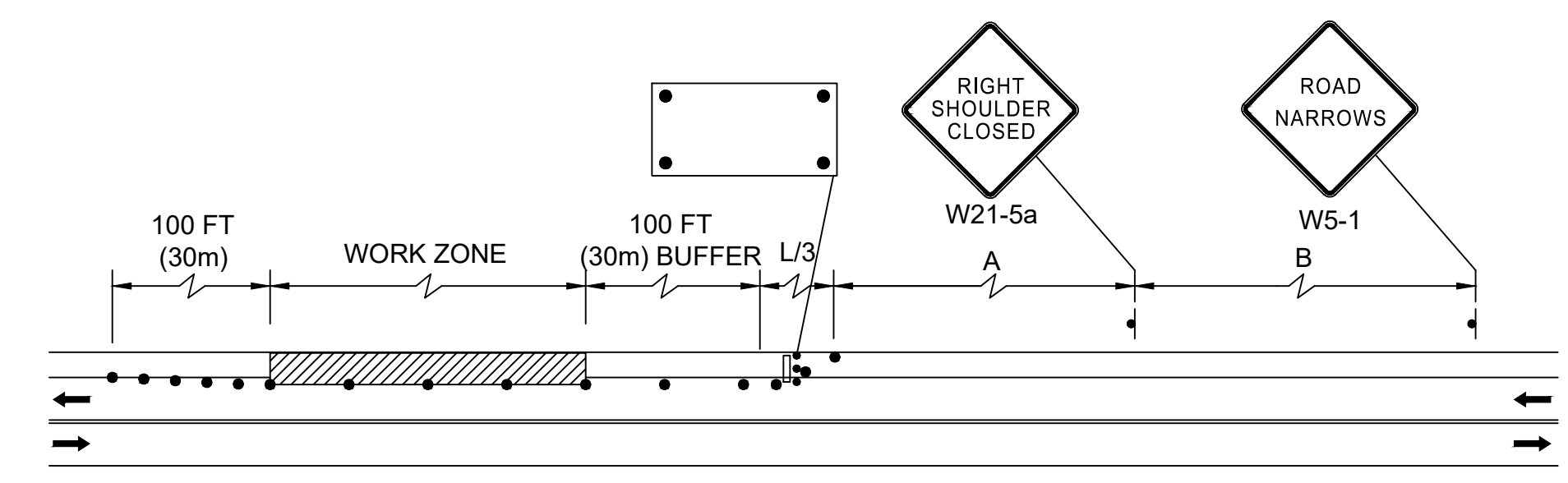
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	48	157
PROJECT FILE NO.		609204	

**TEMPORARY TRAFFIC CONTROL PLANS**



\* - INCREASE SLOPE RATIO FOR HIGHER SPEEDS



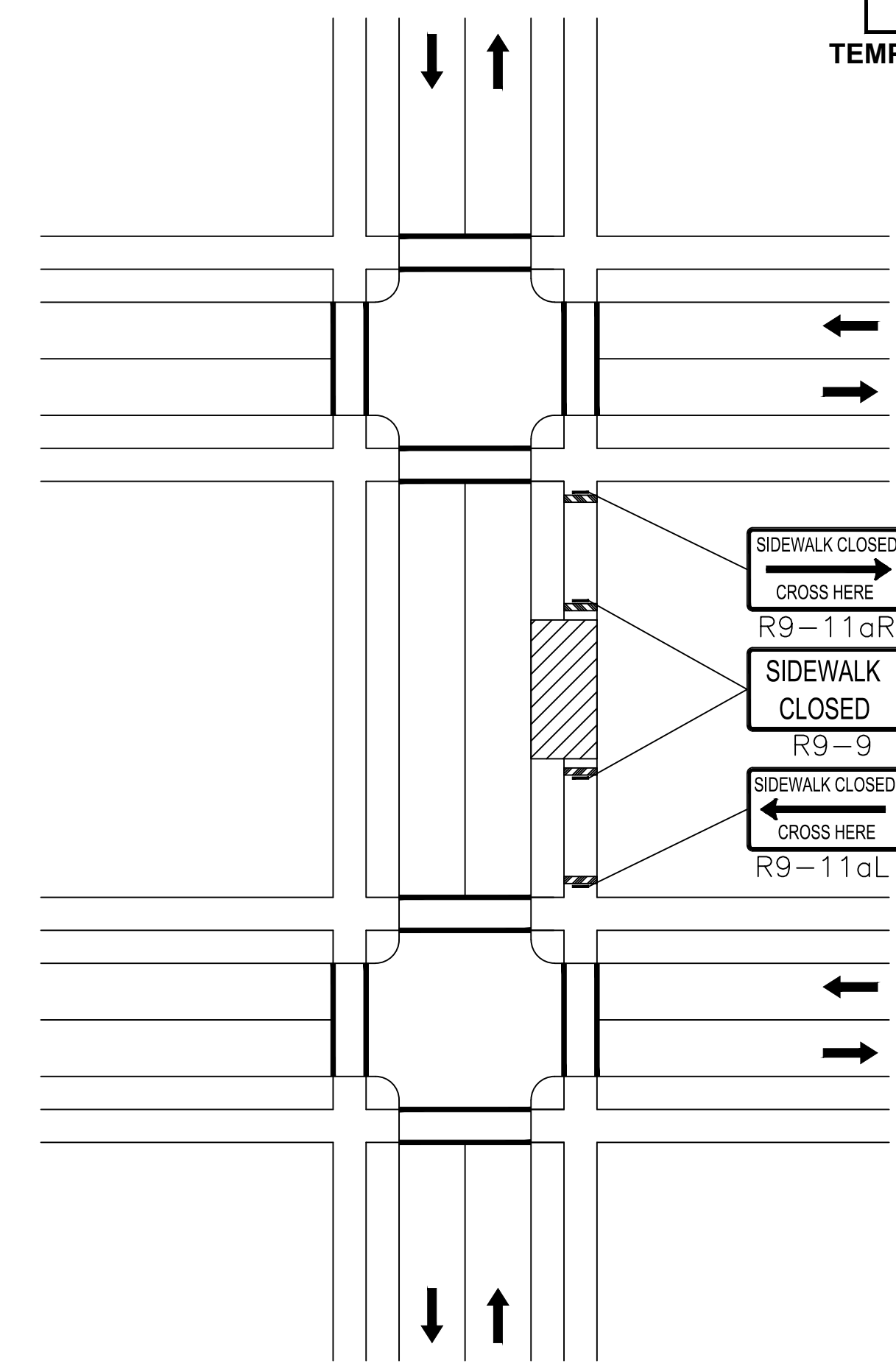
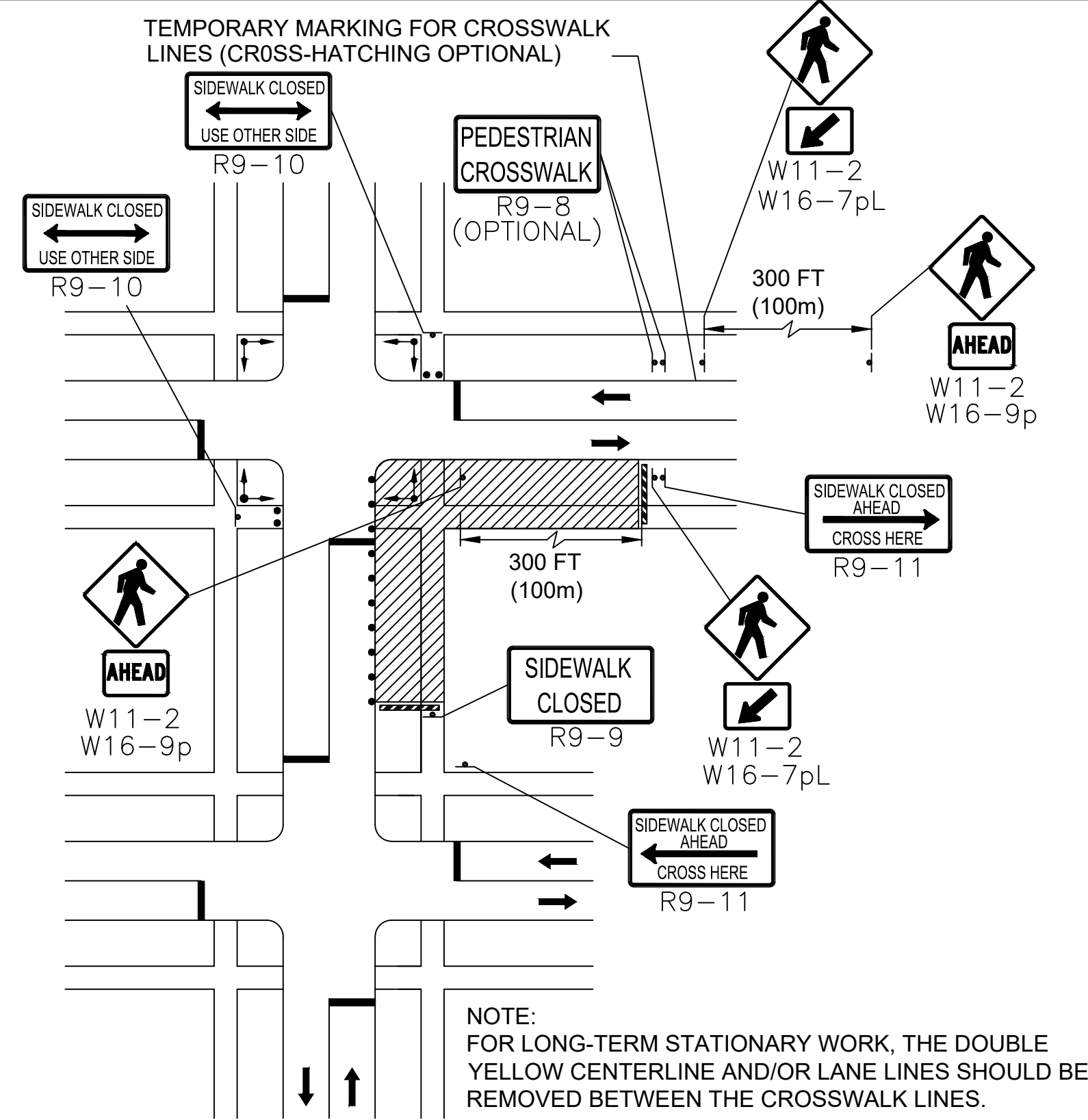
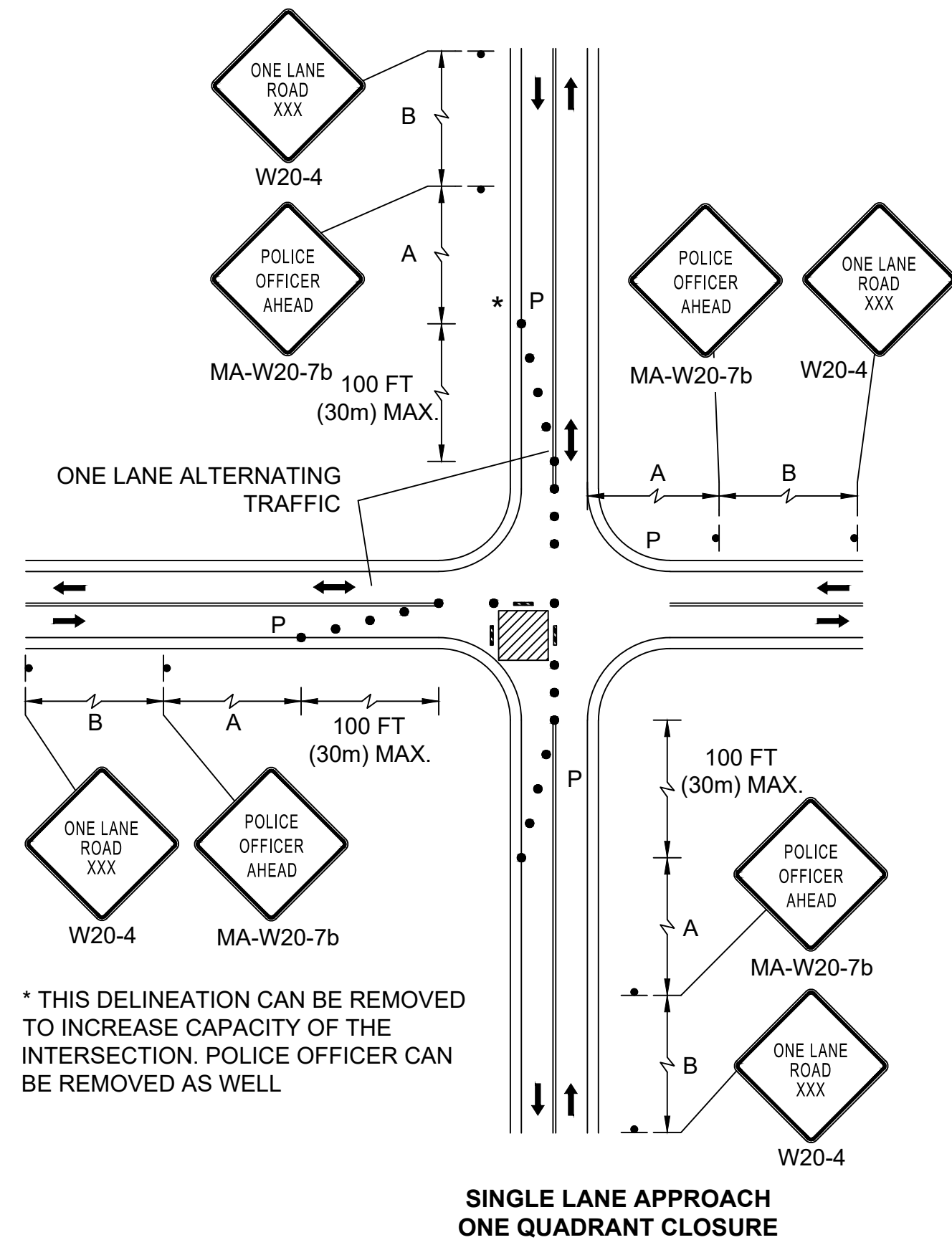


**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	49	157

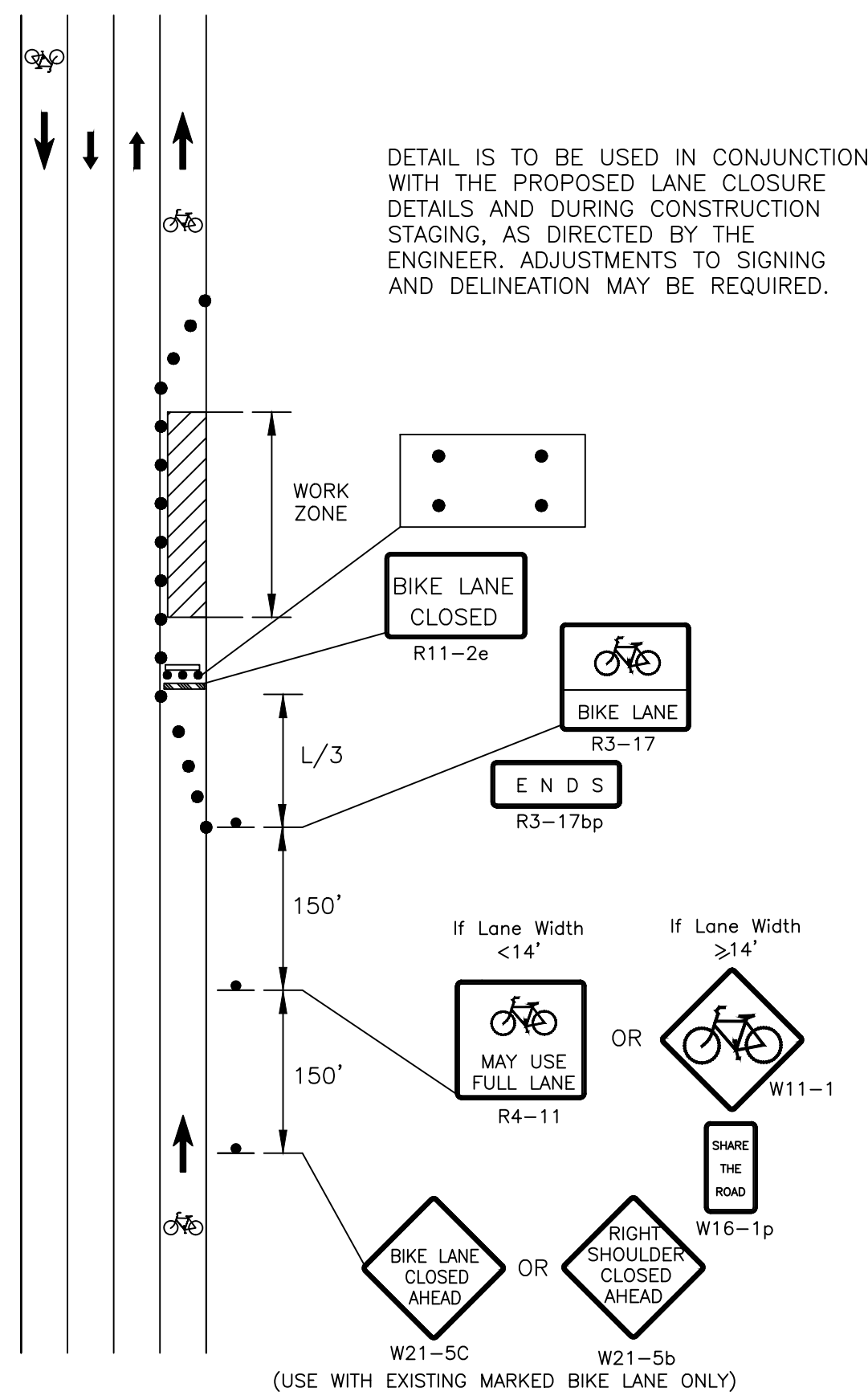
PROJECT FILE NO. 609204

**TEMPORARY TRAFFIC CONTROL PLANS**

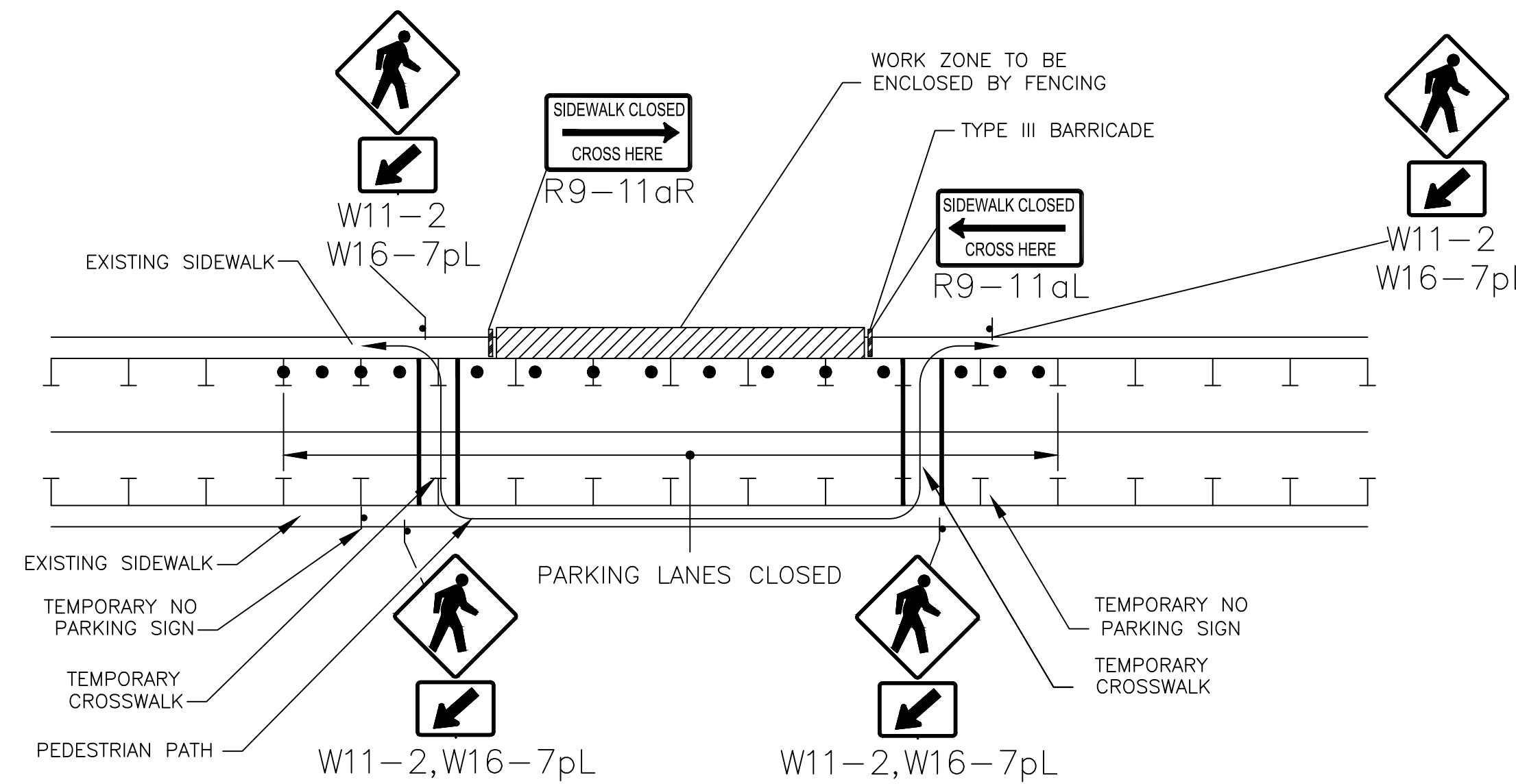
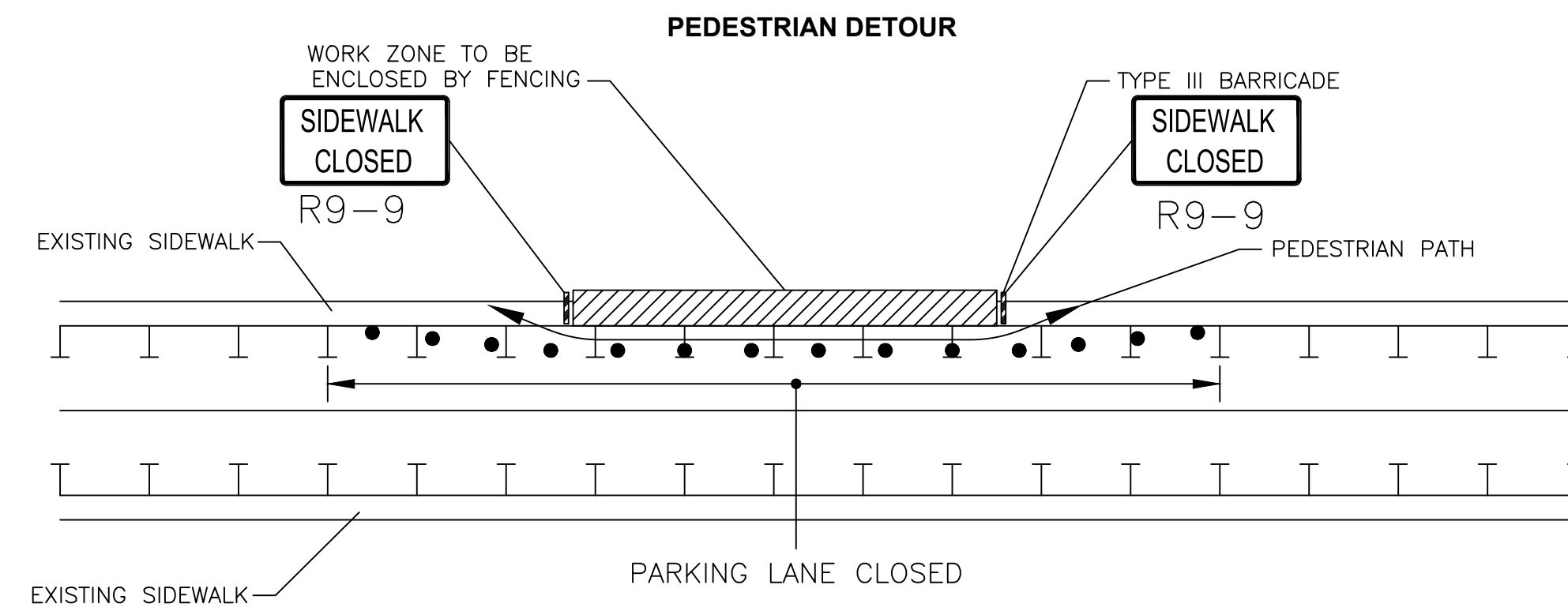


NOTE: IF A MINIMUM WIDTH OF 48" OF SOLID SMOOTH UNOBSTRUCTED SURFACE REMAINS ALONG THE WORK AREA THEN THE DETAIL CAN BE DISREGARDED. DELINEATION OF THE WORK AREA WILL STILL BE REQUIRED. ALL PEDESTRIAN DETOUR ROUTES SHALL BE ADA/MAAB COMPLIANT IN THEIR ENTIRETY.

**SIDEWALK CLOSED WITHOUT DETOUR**



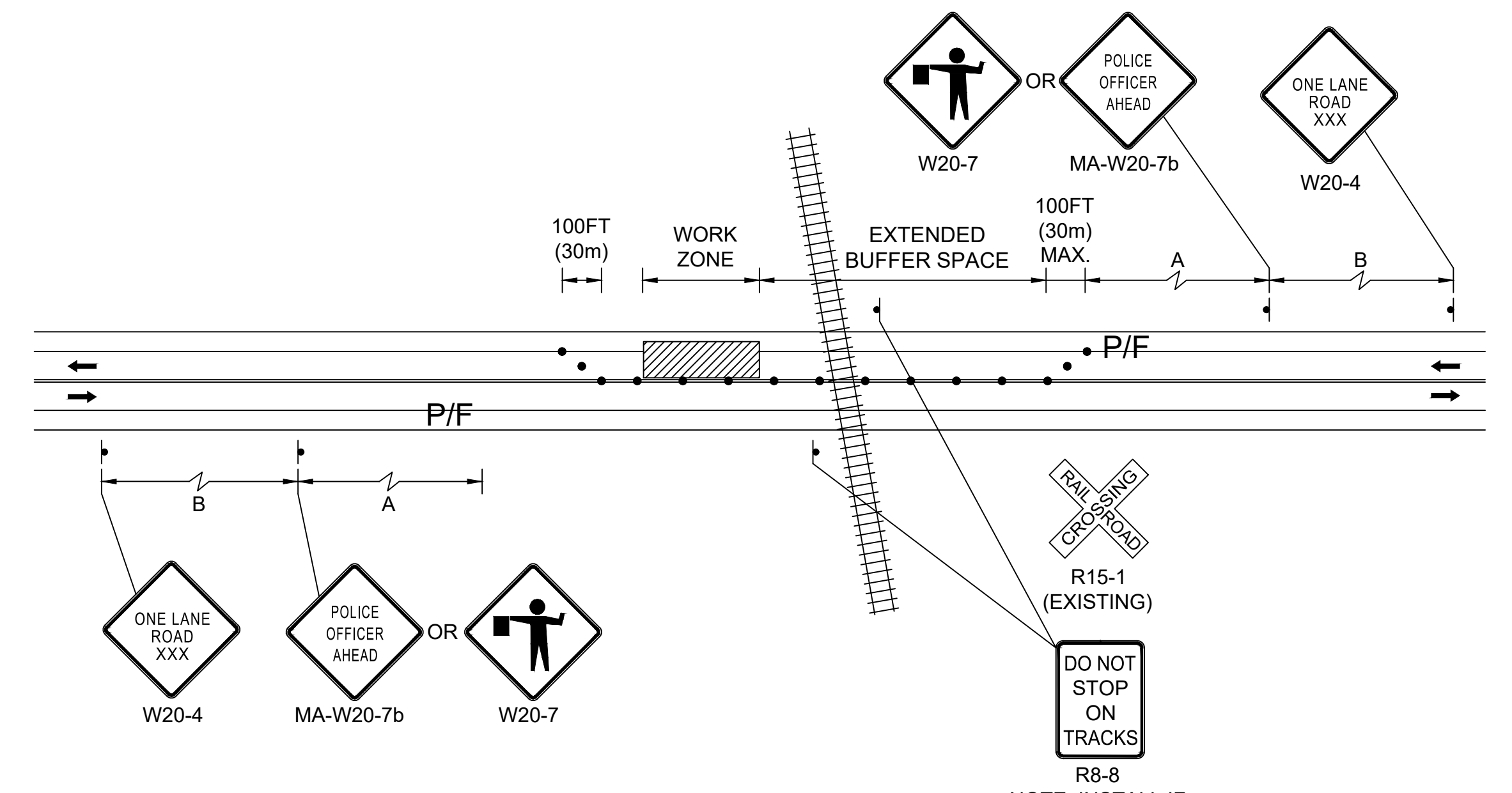
**BIKE LANE CLOSURE  
WITHOUT DETOUR**



**NOTES**

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

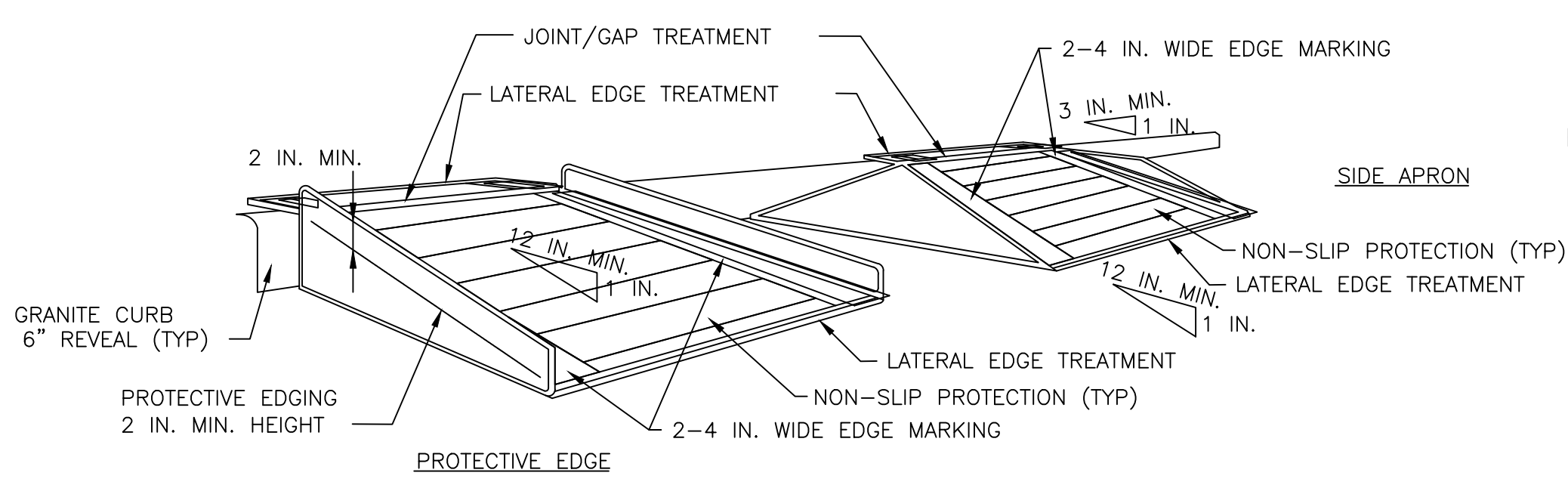
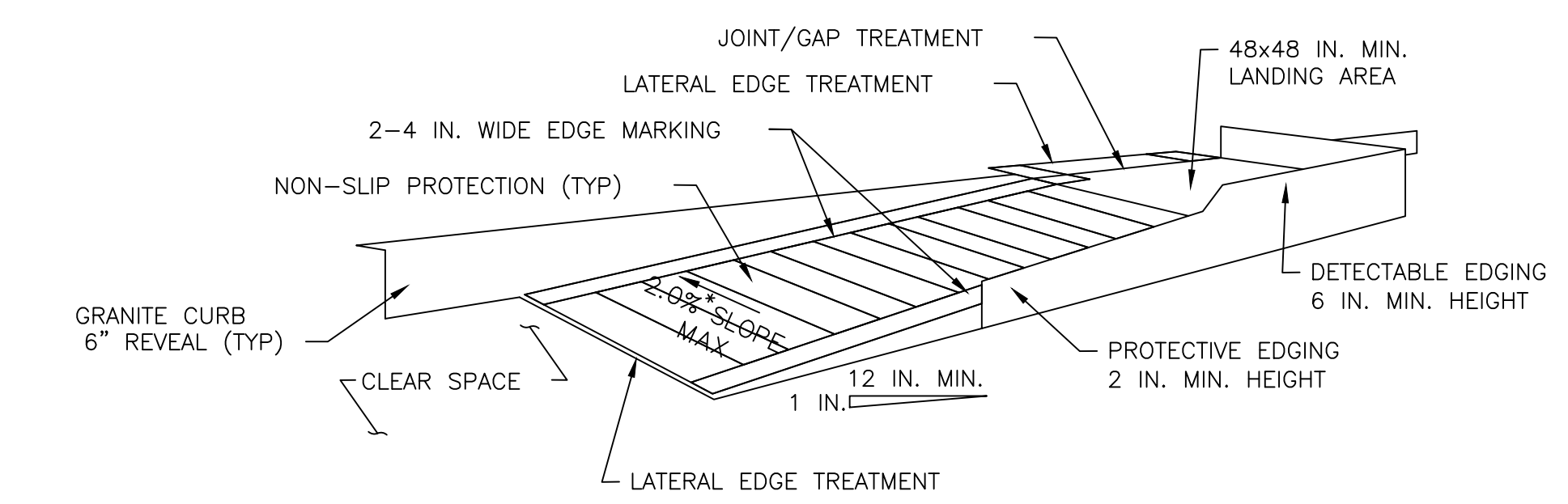
**PEDESTRIAN BYPASS**



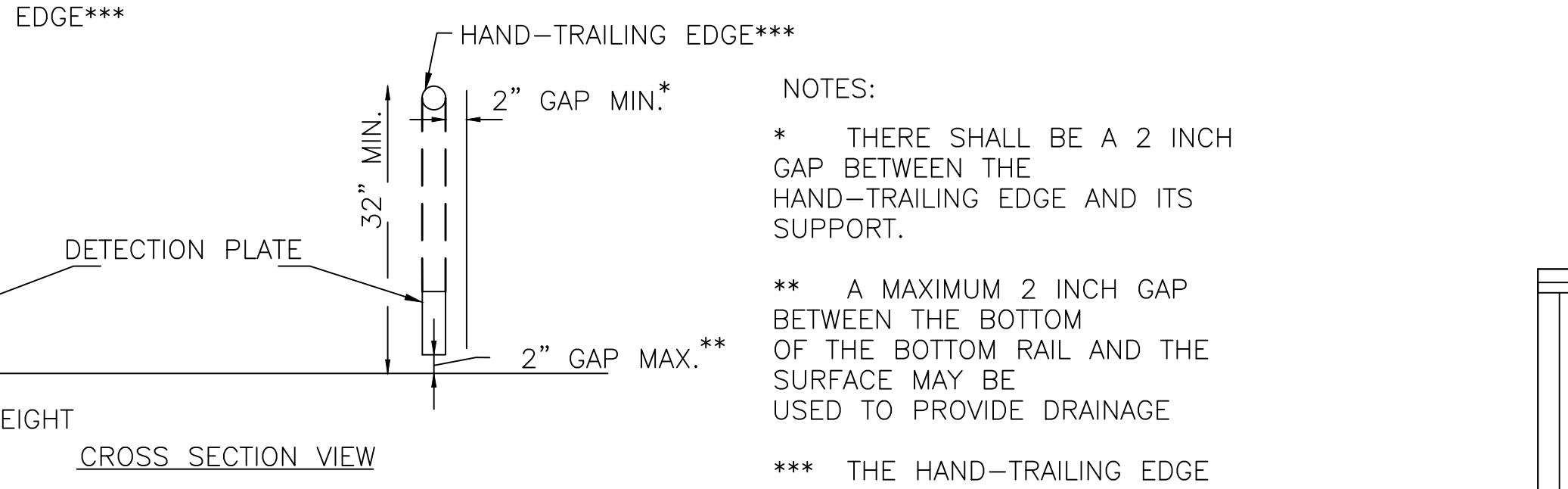
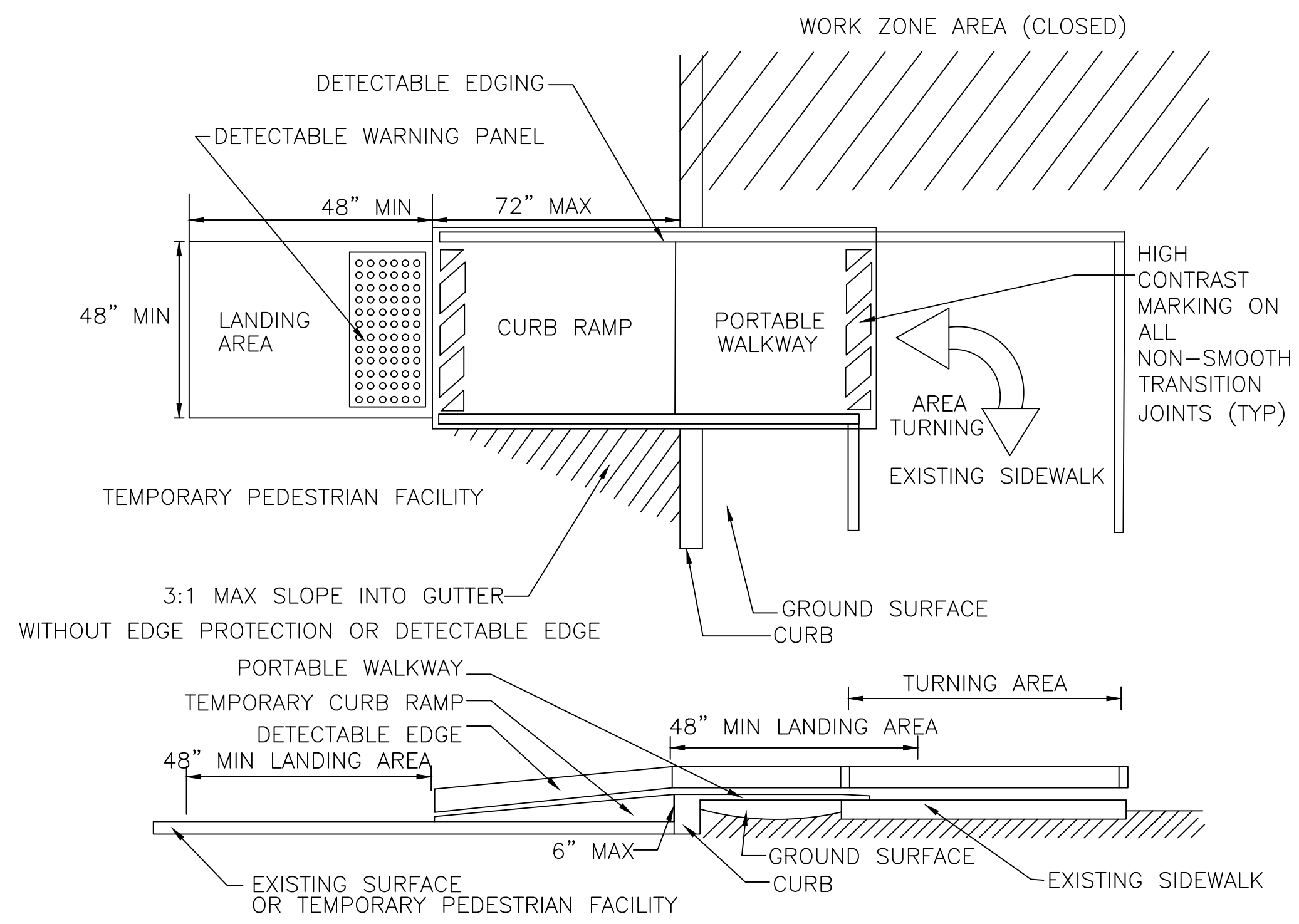
**WORK NEAR RAILROAD CROSSING**

**NOTES:**

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

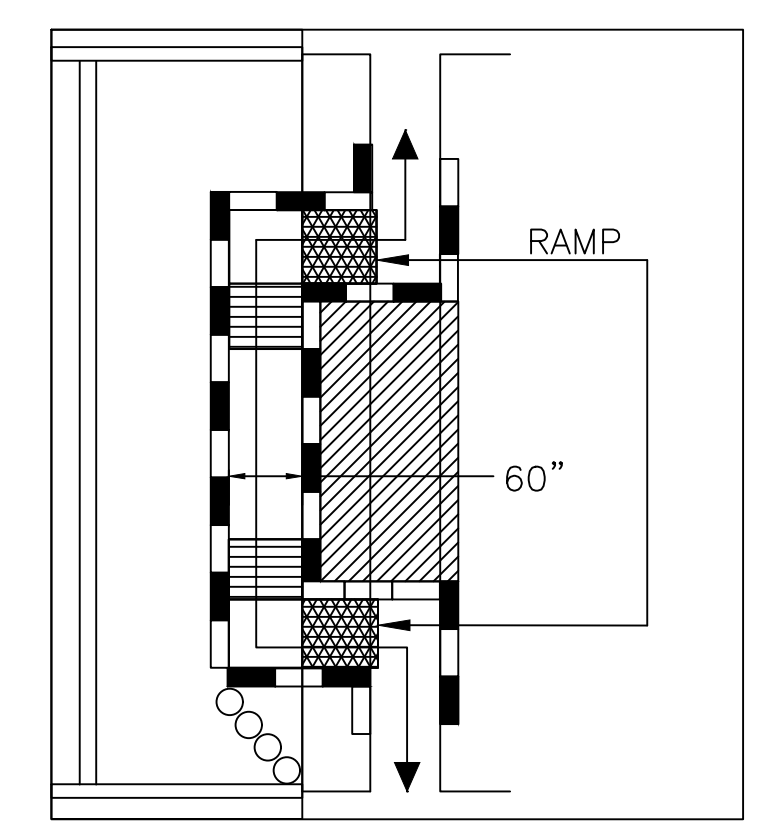
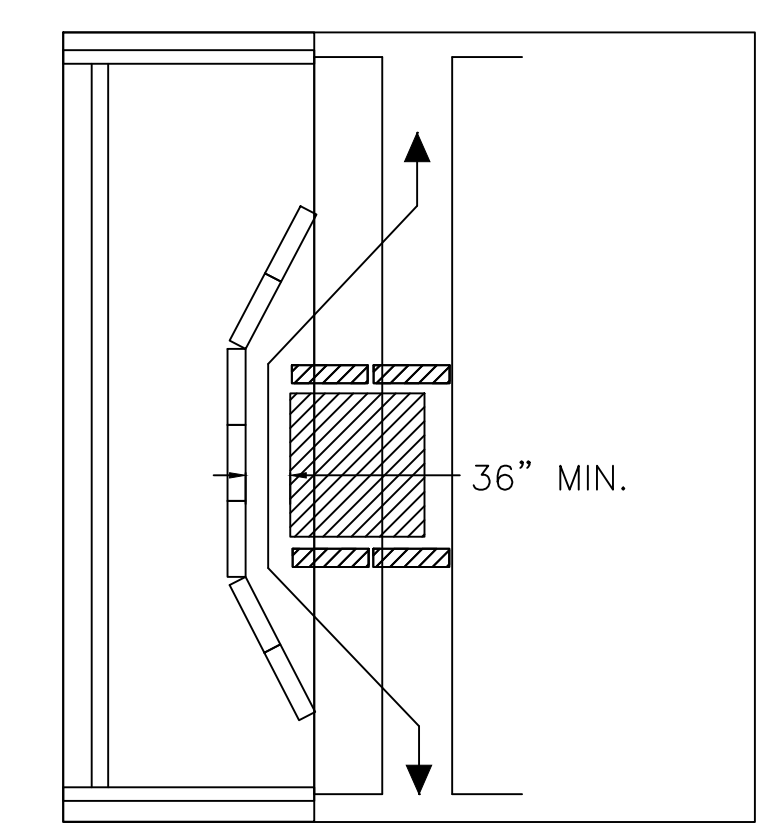


**TEMPORARY CURB RAMP -  
PERPENDICULAR TO CURB  
NOT TO SCALE**



**PEDESTRIAN CHANNELIZING DEVICE  
NOT TO SCALE**

- NOTES:**
- \* THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND-TRAILING EDGE AND ITS SUPPORT.
  - \*\* A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE
  - \*\*\* THE HAND-TRAILING EDGE AND DETECTION PLATE SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE PATH SUCH THAT A PEDESTRIAN USER WITH A LONG CANE CAN FOLLOW IT.



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

**AUDIBLE DEVICES**

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

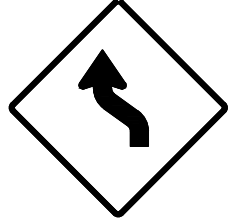
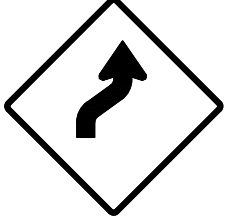

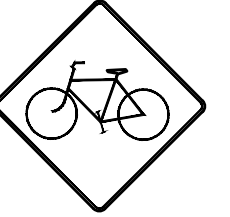









**PEDESTRIAN DETAILS**

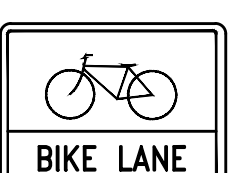




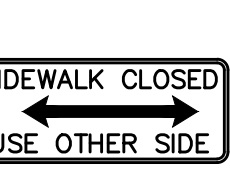
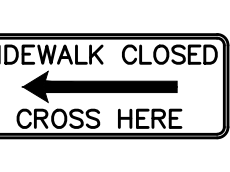
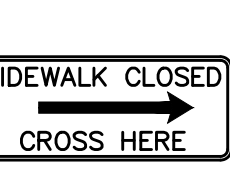

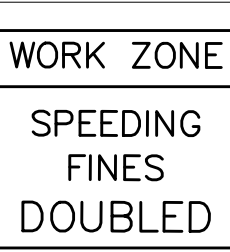
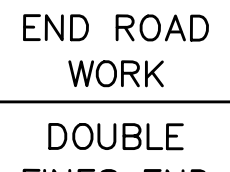
# CONSTRUCTION SIGN SUMMARY

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	51	157
PROJECT FILE NO. 609204			

**TEMPORARY TRAFFIC CONTROL PLANS**

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

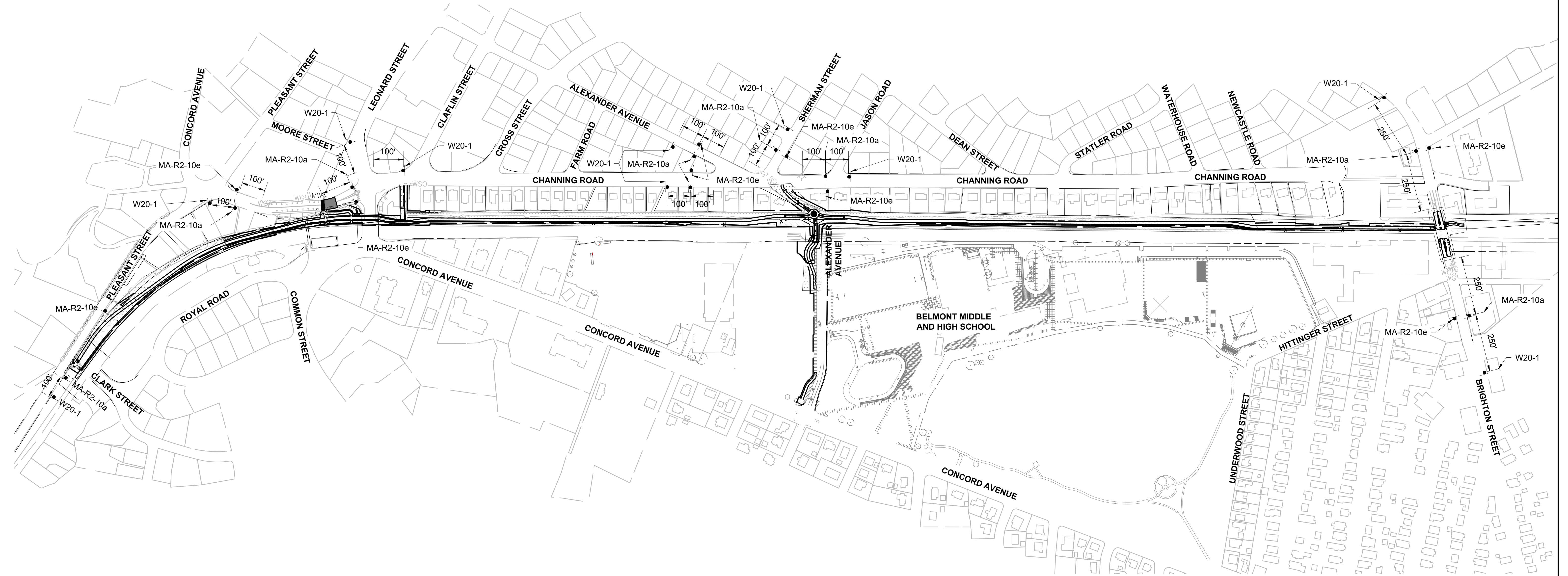
IDENTIFICATION NUMBER	SIZE OF SIGN		SIGN DIAGRAM	COLOR			# REQ'D	UNIT AREA S.F.	AREA IN SQUARE FEET
	WIDTH	HEIGHT		BACK-GROUND	LEGEND	BORDER			
R3-17	24"	18"		BLACK	WHITE	WHITE	1	3.00	3.00
R3-17bp	24"	8"		WHITE	BLACK	BLACK	1	1.33	1.33
R4-11	24"	24"		WHITE	BLACK	BLACK	2	2.00	4.00
R9-8	24"	12"		FLUOR-ESCENT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

\* NO. OF SIGNS ARE ESTIMATED FOR BIDDING PURPOSES ONLY

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	52	157
PROJECT FILE NO.		609204	

**TEMPORARY TRAFFIC CONTROL PLANS**



**ADVANCE SIGNGE PLAN**  
NTS

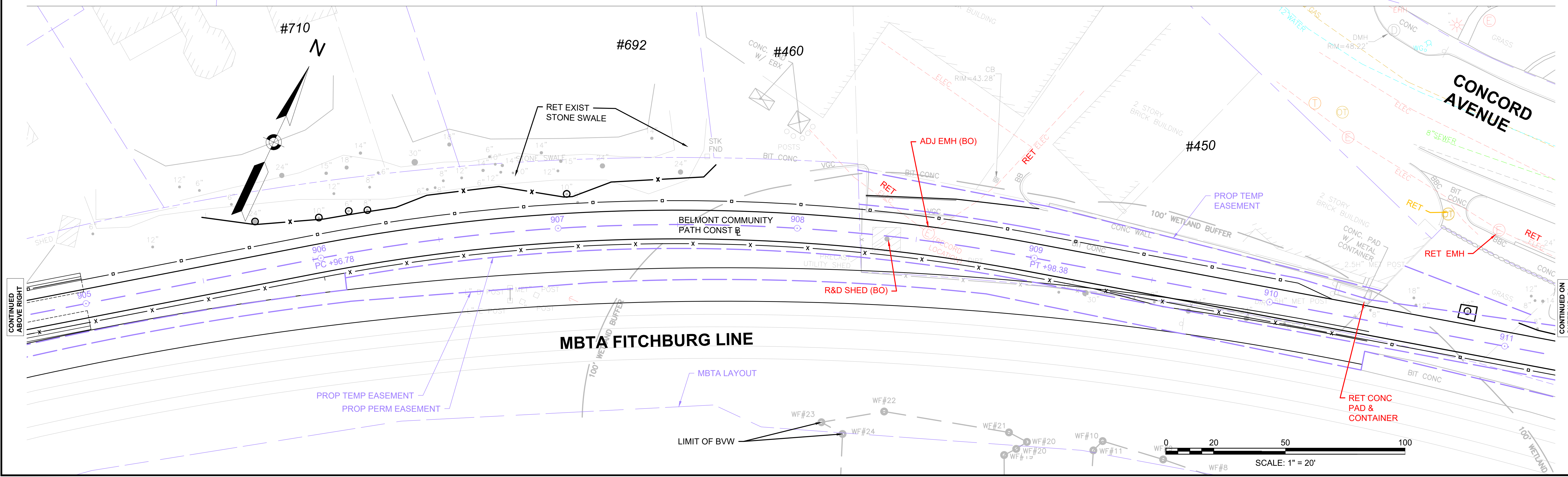
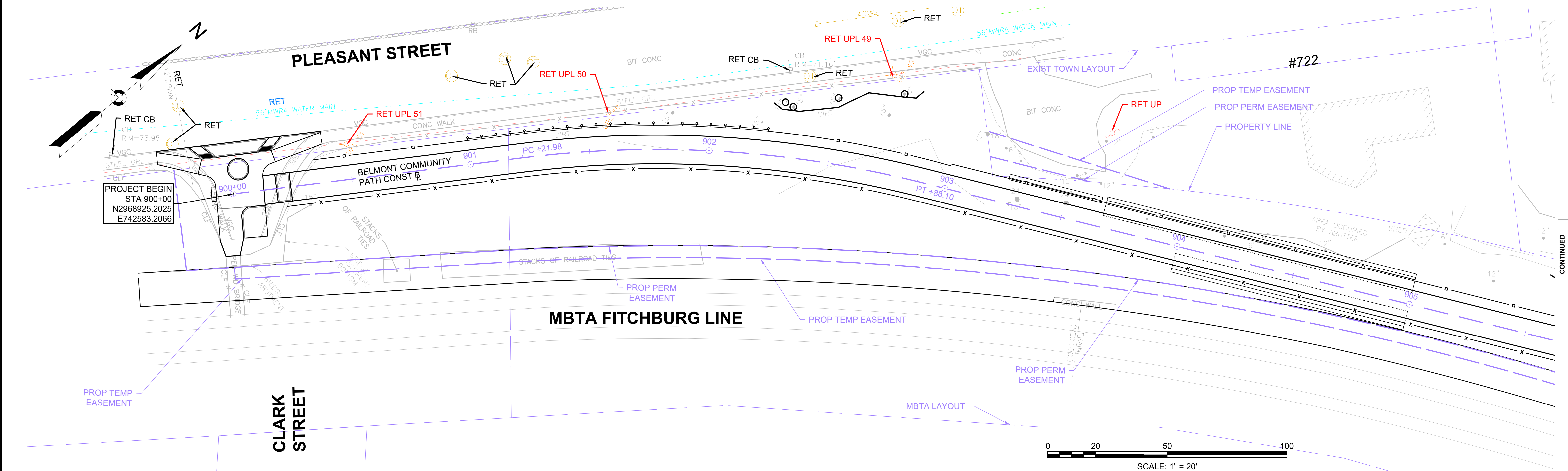
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	53	157
PROJECT FILE NO.		609204	

**DRAINAGE & UTILITY PLANS**

Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD\UTIL.dwg

609204\_HD\UTIL.DWG



CONTINUED  
BELOW LEFT

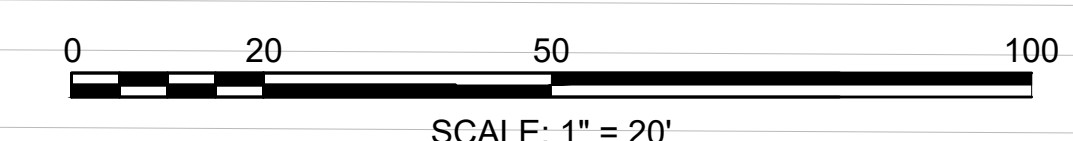
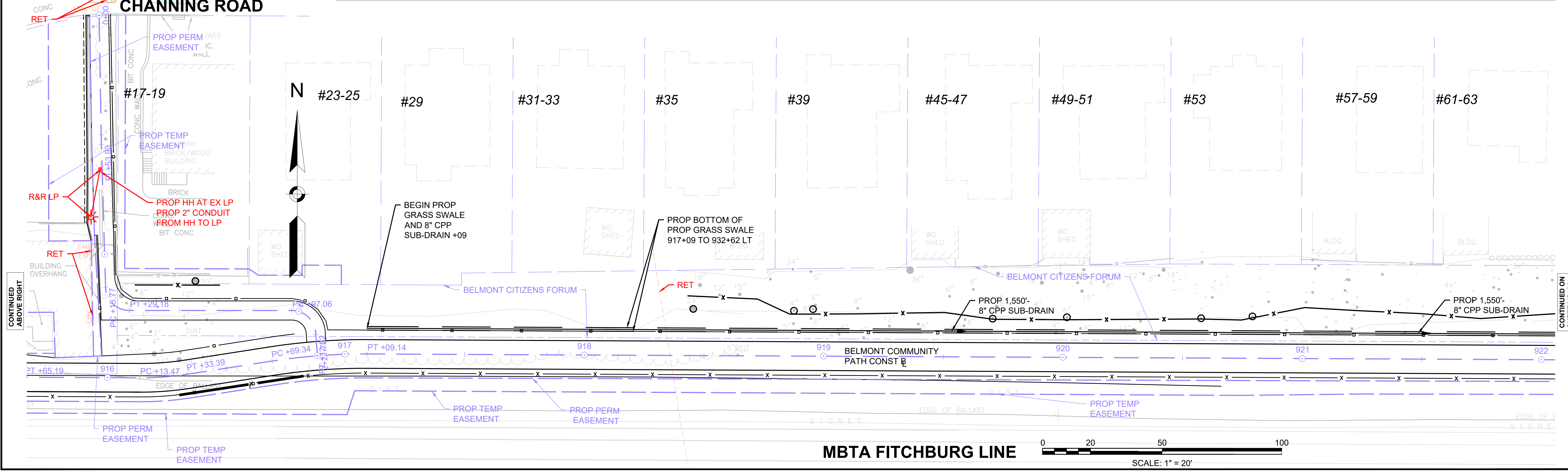
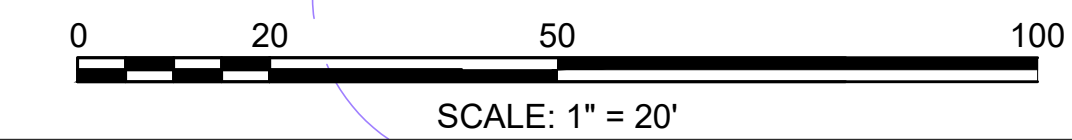
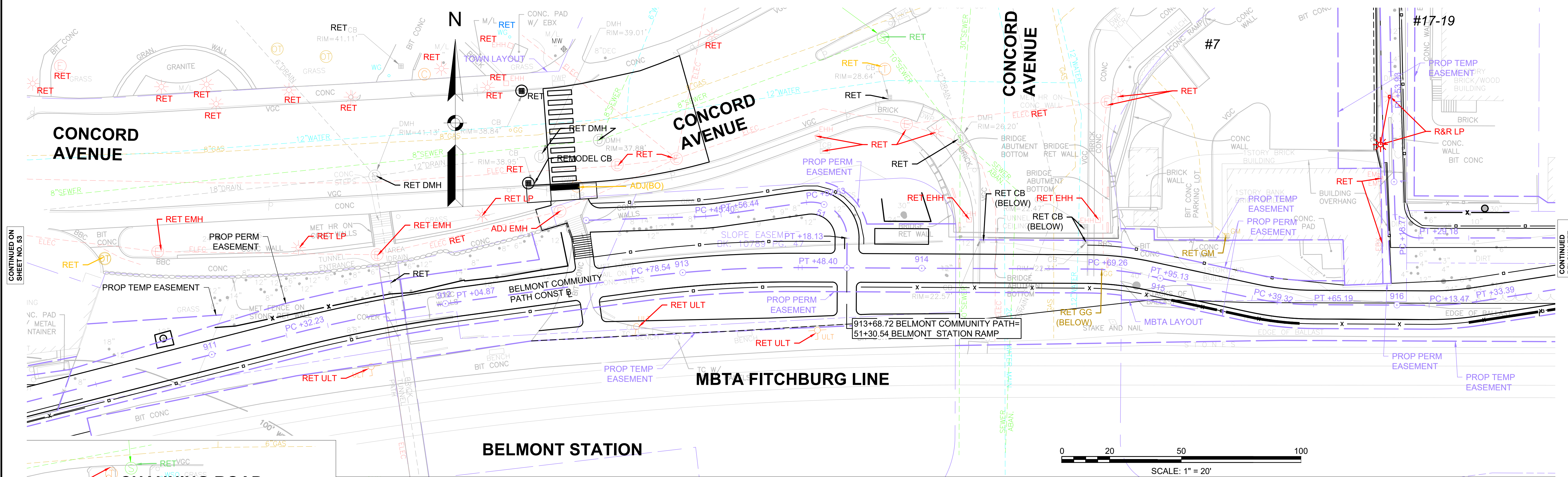
CONTINUED ON  
SHEET NO. 54

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRP**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	54	157

PROJECT FILE NO. 609204

**DRAINAGE & UTILITY PLANS**



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

CONTINUED ON  
SHEET NO. 53

CONTINUED  
BELOW LEFT

CONTINUED  
ABOVE RIGHT

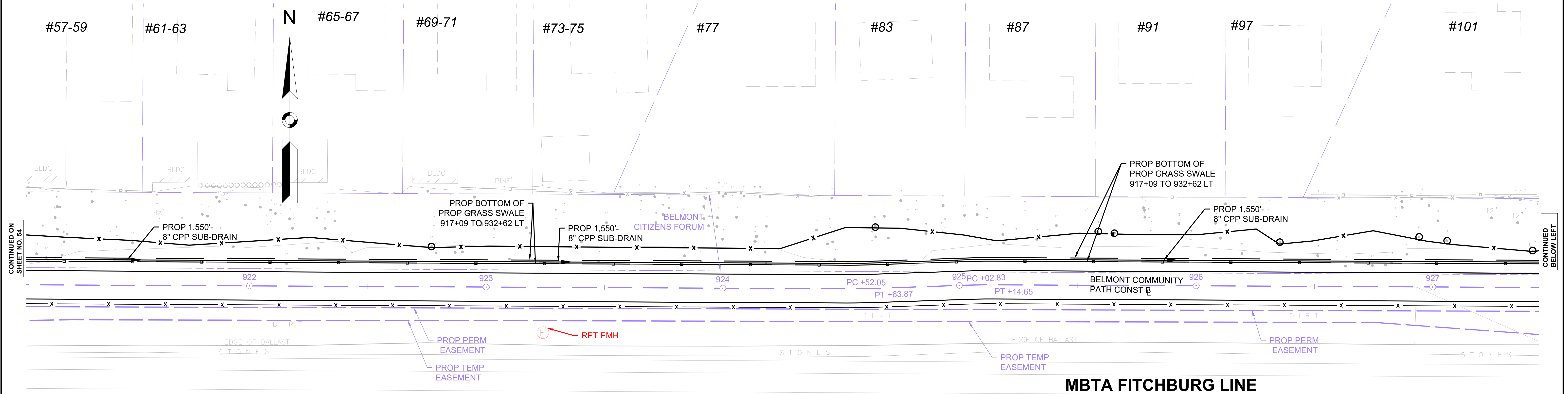
CONTINUED ON  
SHEET NO. 55

609204\_HD(UTIL).DWG

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

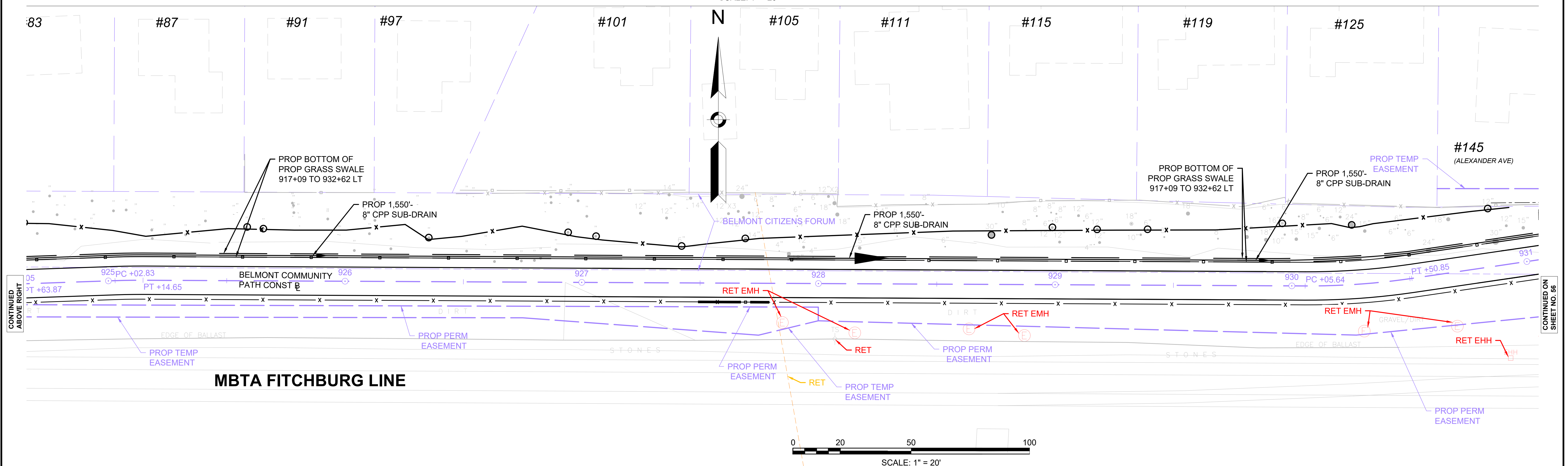
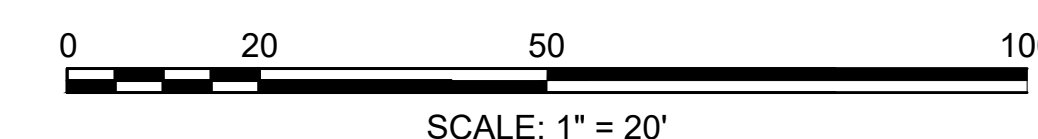
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	55	157
PROJECT FILE NO.		609204	

**DRAINAGE & UTILITY PLANS**



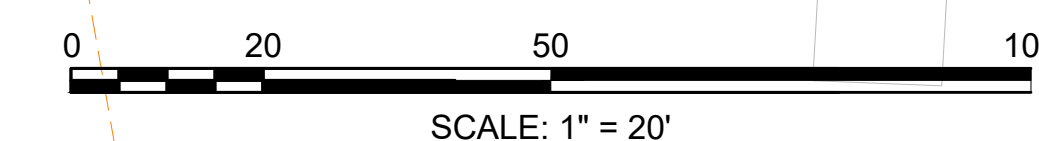
CONTINUED ON SHEET NO. 54

CONTINUED BELOW LEFT



CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 56



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

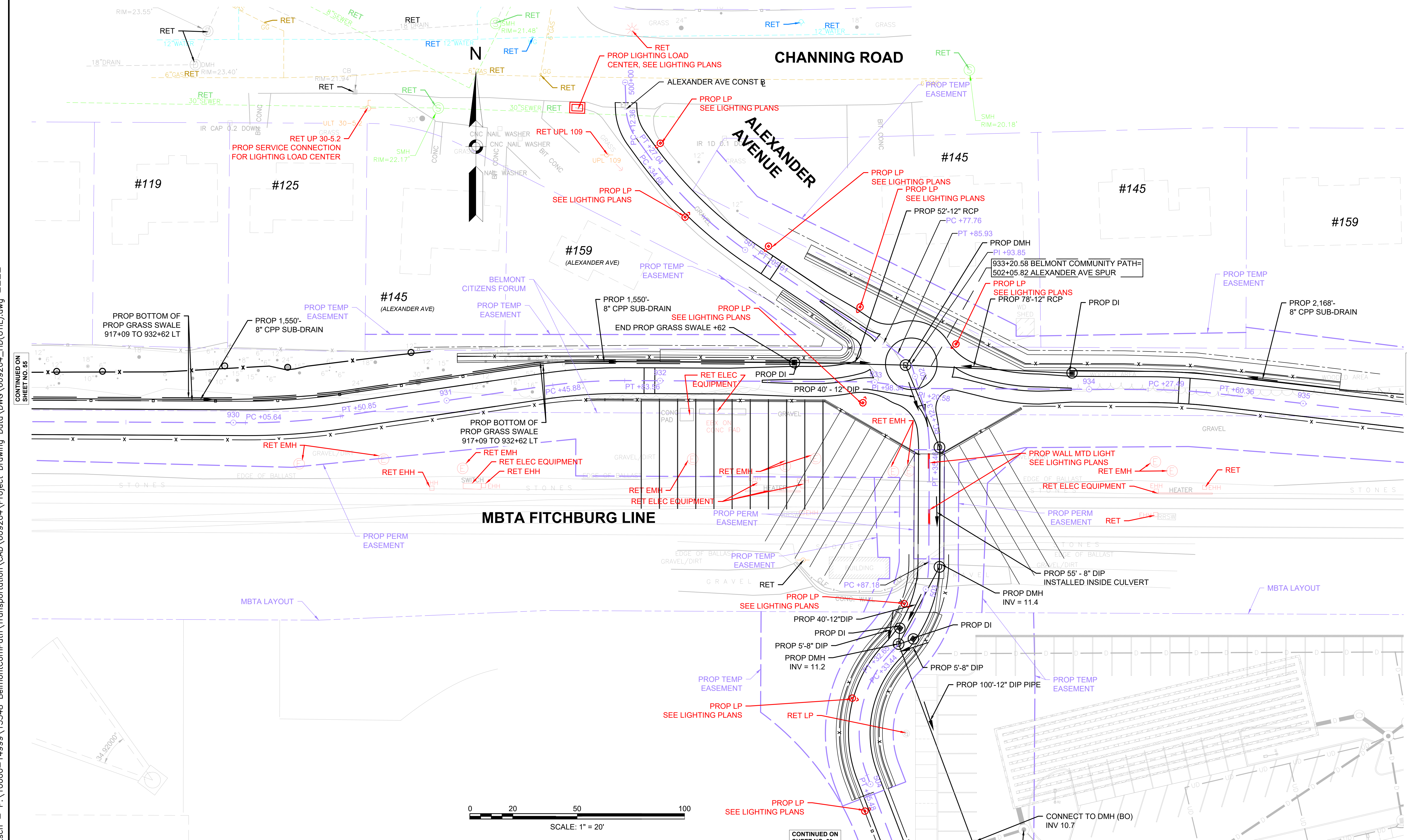
609204\_HD(UTIL).DWG Plotted on 11/11/2014 10:00:00 AM

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	56	157

PROJECT FILE NO. 609204

**DRAINAGE & UTILITY PLANS**

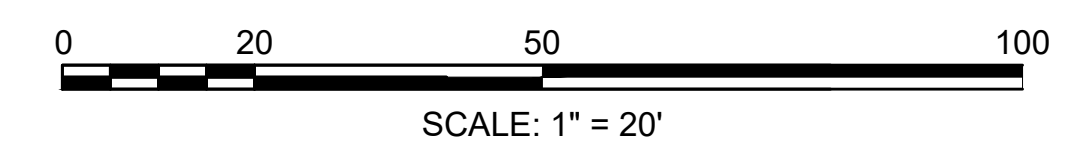


Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(UTIL).dwg

609204\_HD(UTIL).DWG

CONTINUED ON  
SHEET NO. 55

CONTINUED ON  
SHEET NO. 57



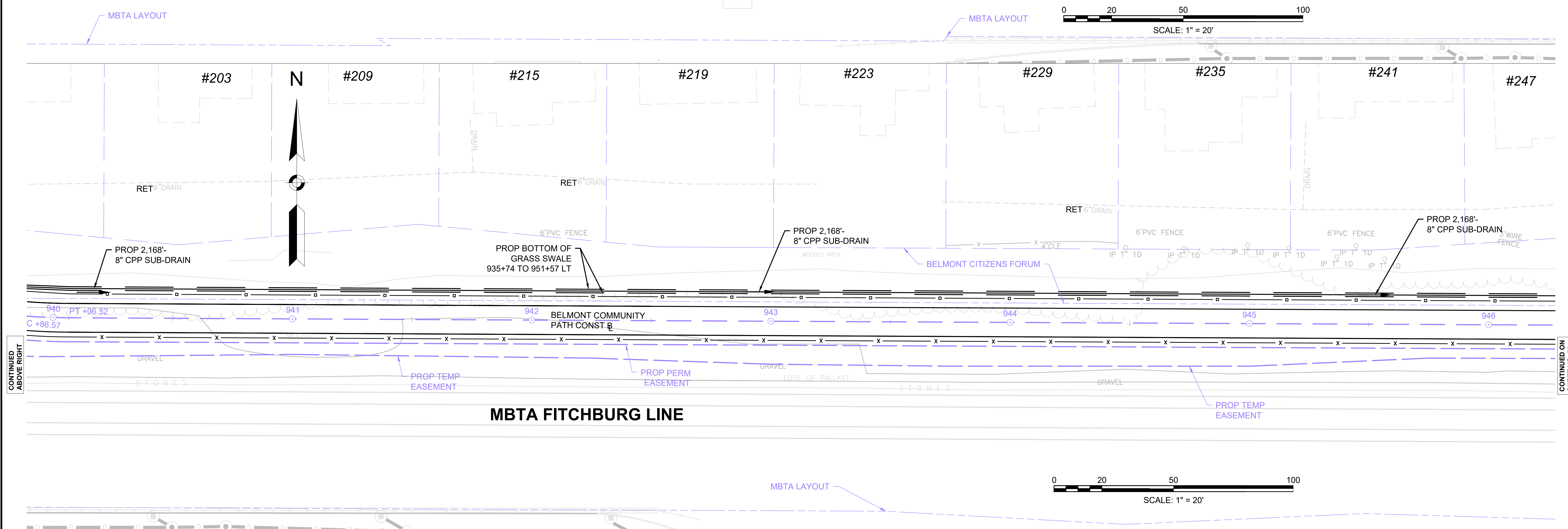
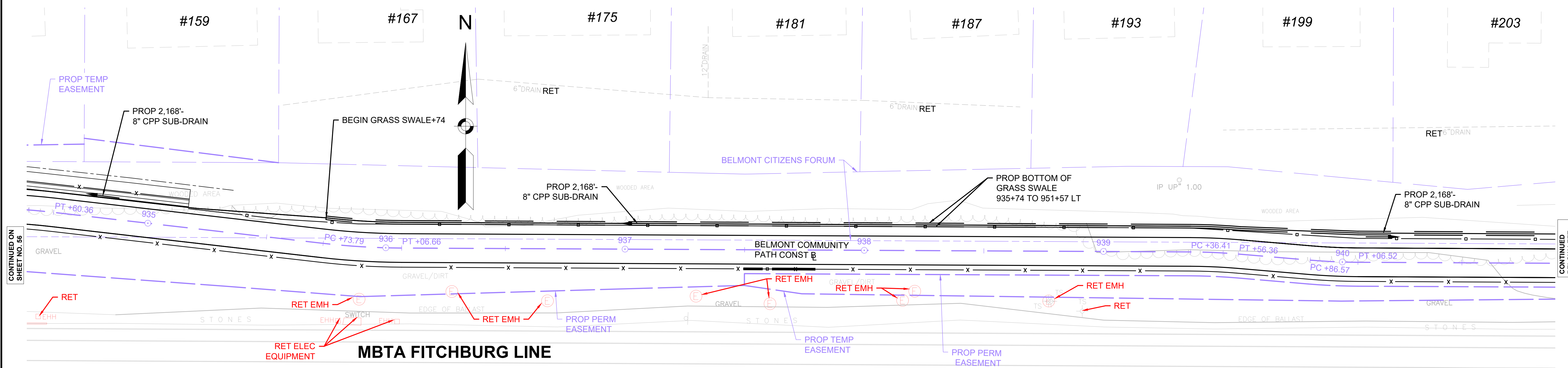
CONTINUED ON  
SHEET NO. 60



**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	57	157
PROJECT FILE NO. 609204			

**DRAINAGE & UTILITY PLANS**



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

CONTINUED ON SHEET NO. 56

CONTINUED BELOW

CONTINUED ABOVE RIGHT

CONTINUED ON SHEET NO. 58

609204\_HD(UTIL).DWG

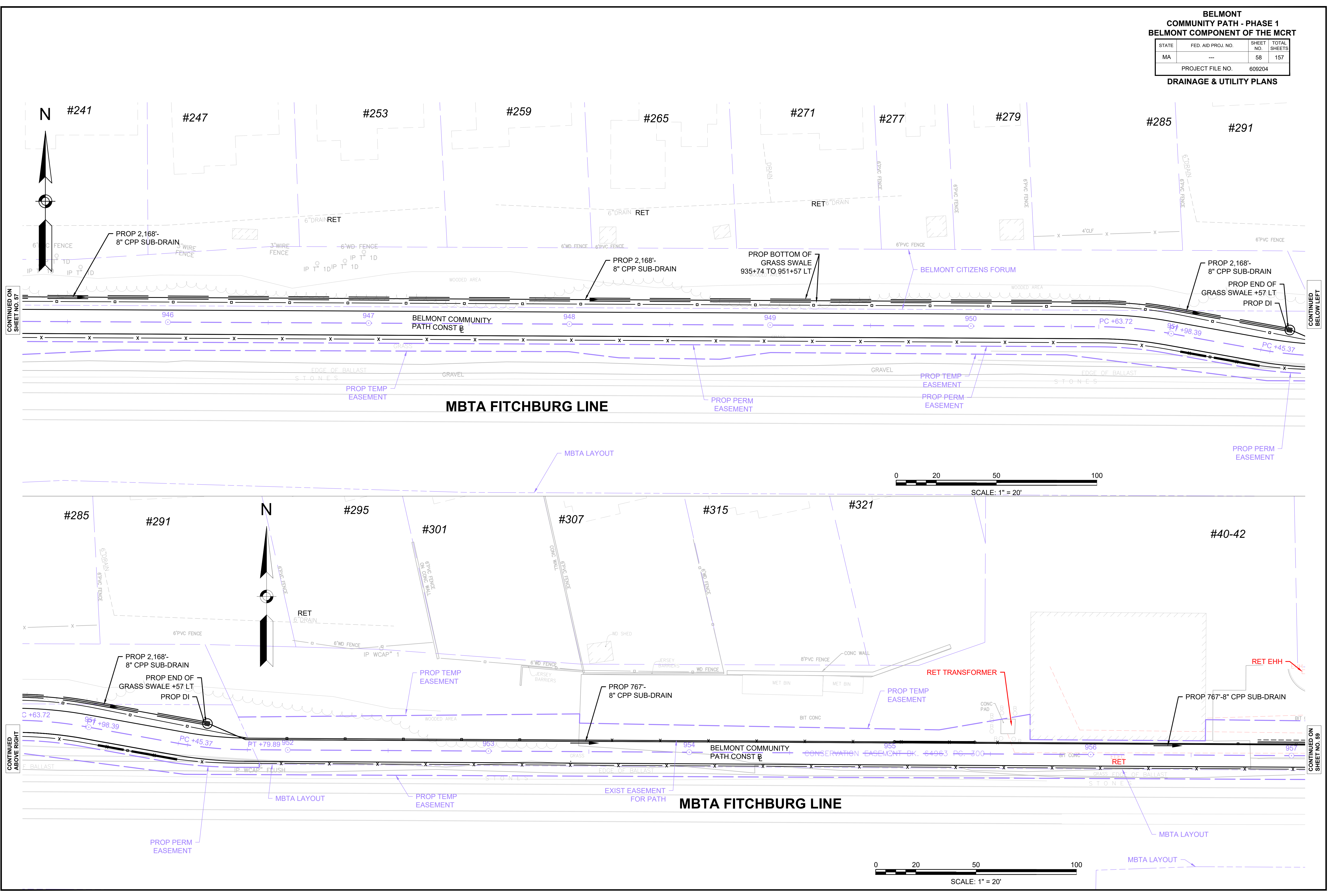
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	58	157

PROJECT FILE NO. 609204

**DRAINAGE & UTILITY PLANS**

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



CONTINUED ON SHEET NO. 57

CONTINUED BELOW LEFT

CONTINUED ABOVE RIGHT

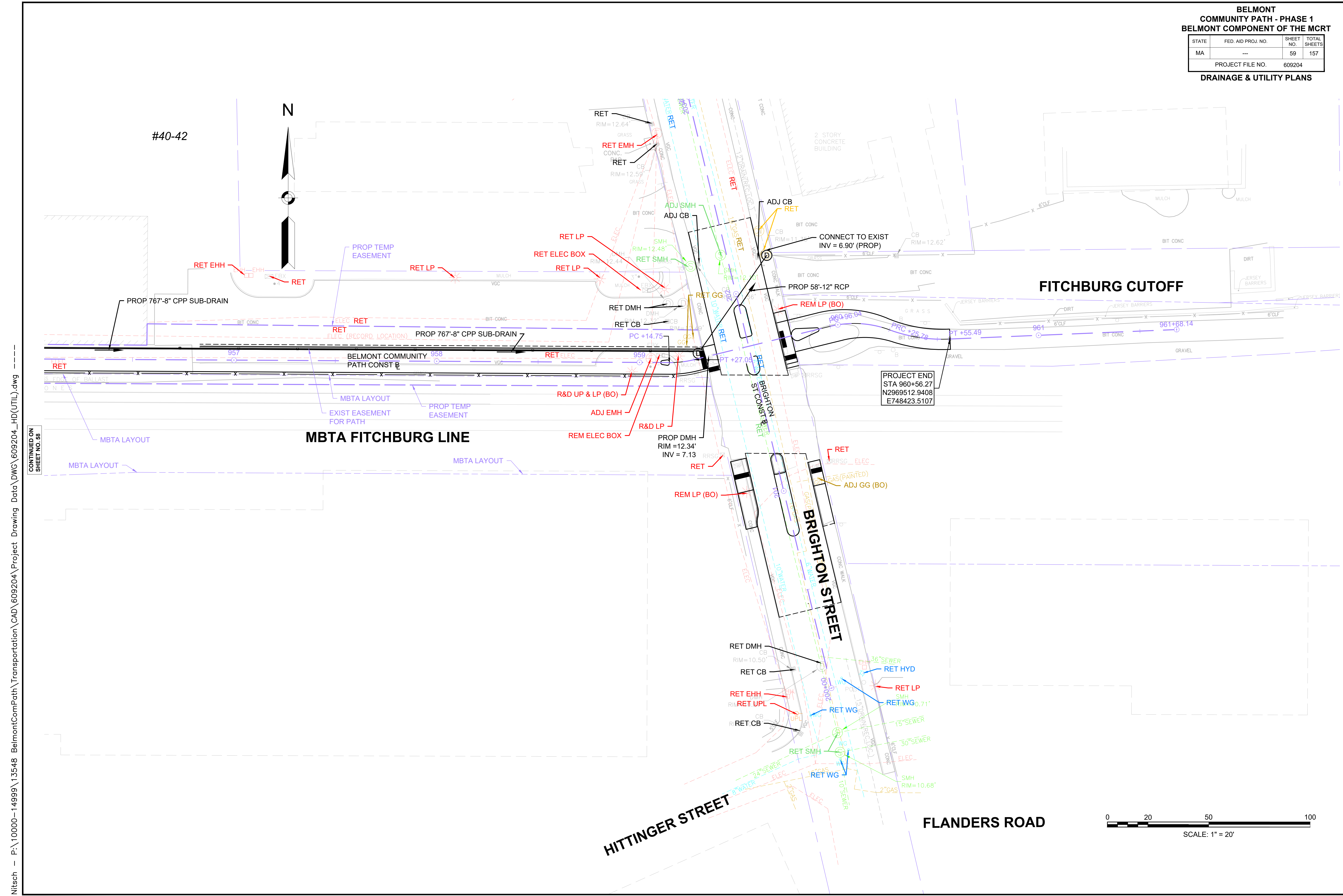
CONTINUED ON SHEET NO. 59

609204\_HD(UTIL).DWG

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	59	157
PROJECT FILE NO.		609204	

**DRAINAGE & UTILITY PLANS**



Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\_HD(UTIL).dwg

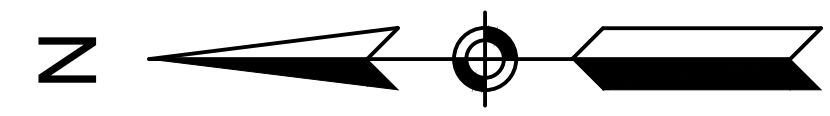
CONTINUED ON  
SHEET NO. 58

609204\_HD(UTIL).DWG

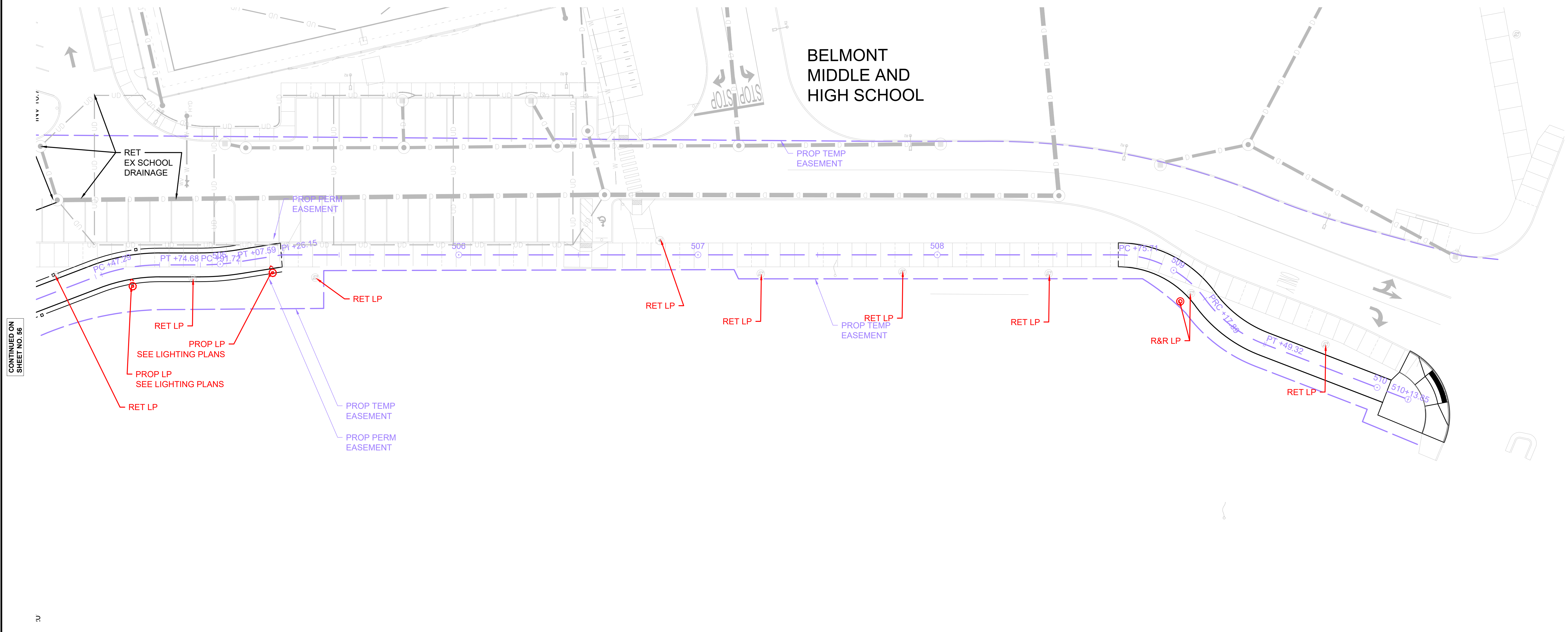
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	60	157
PROJECT FILE NO.		609204	

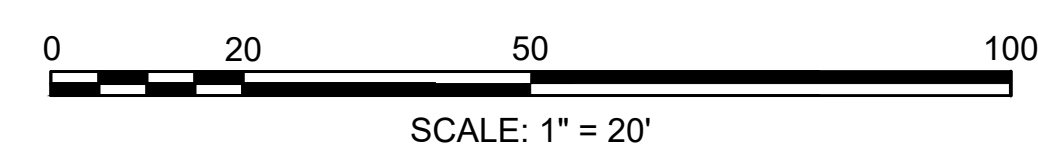
**DRAINAGE & UTILITY PLANS**



**BELMONT  
MIDDLE AND  
HIGH SCHOOL**



CONTINUED ON  
SHEET NO. 56



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

609204\_HD(UTIL).DWG

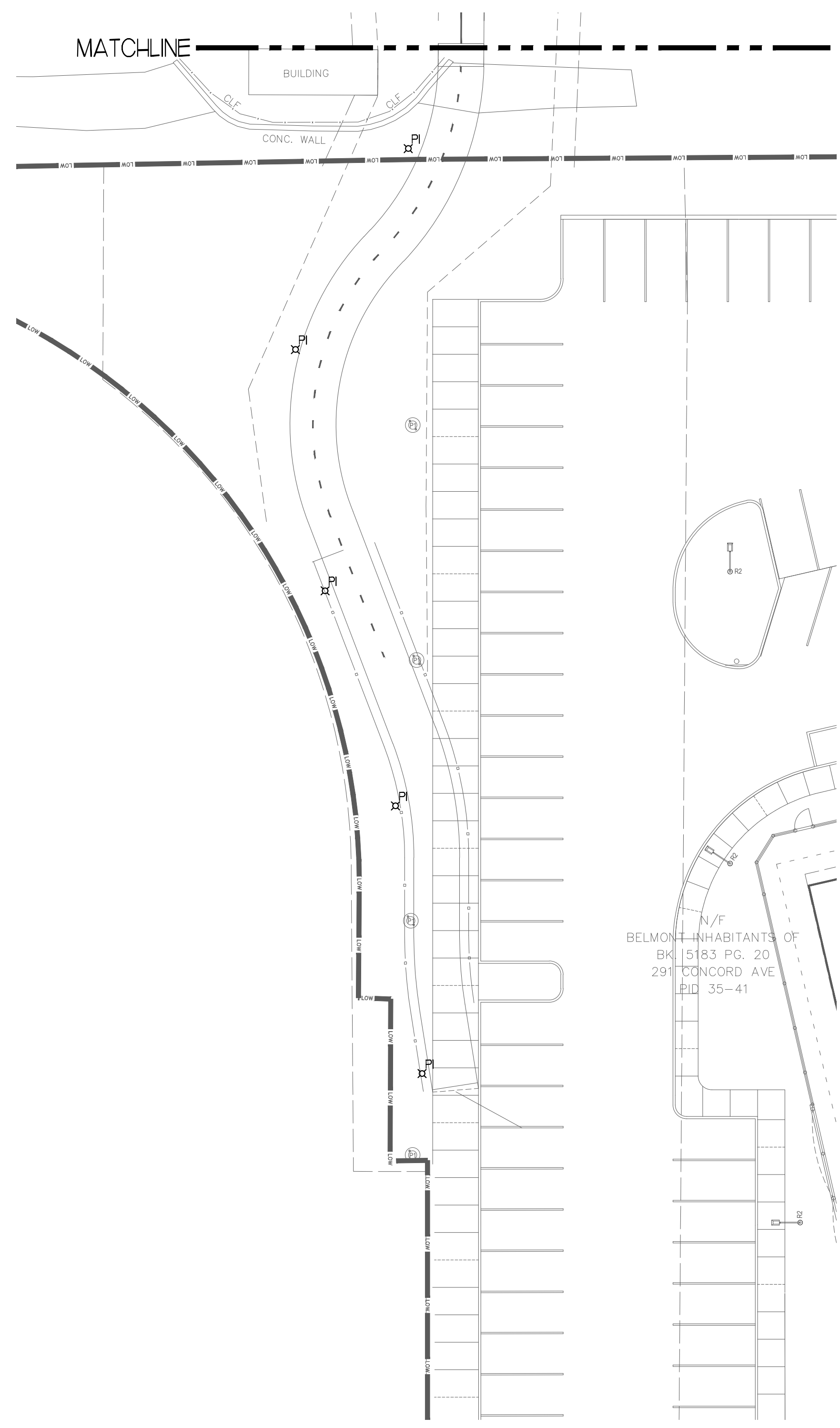
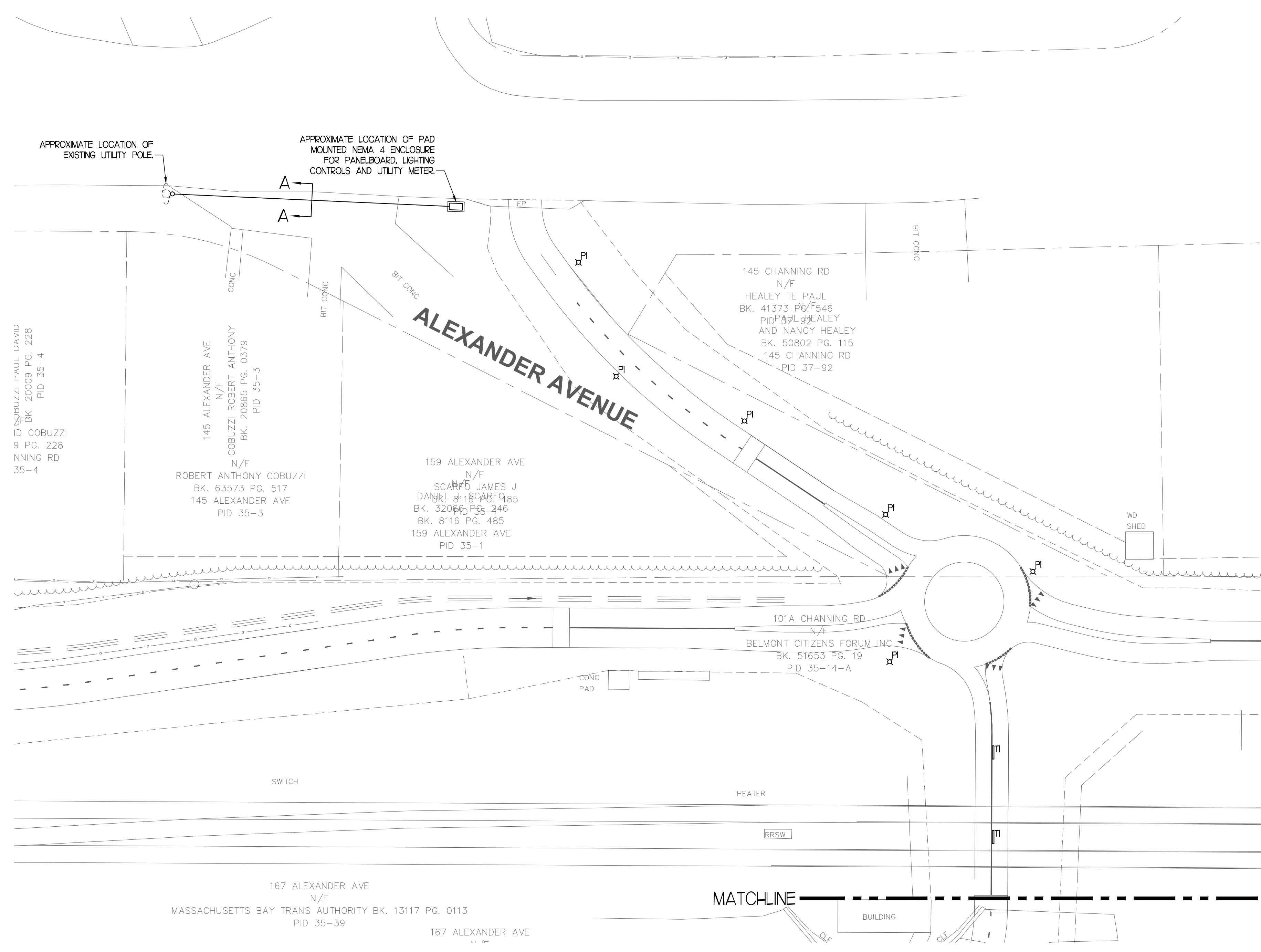


**VINCENT A. DIORIO, INC.**  
 CONSULTING ENGINEERS  
 89 Acacia Road, Suite 100  
 Needham Heights, MA 02459  
 Tel: (781) 255-9774 email: va@vadiorio.com  
 www.vadiorio.com

**BELMONT  
 COMMUNITY PATH - PHASE 1  
 BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	61	157
PROJECT FILE NO.		609204	

**LIGHTING PLAN**



COBUZZI PAUL DAVID  
 BK. 20009 PG. 228  
 PID 35-4

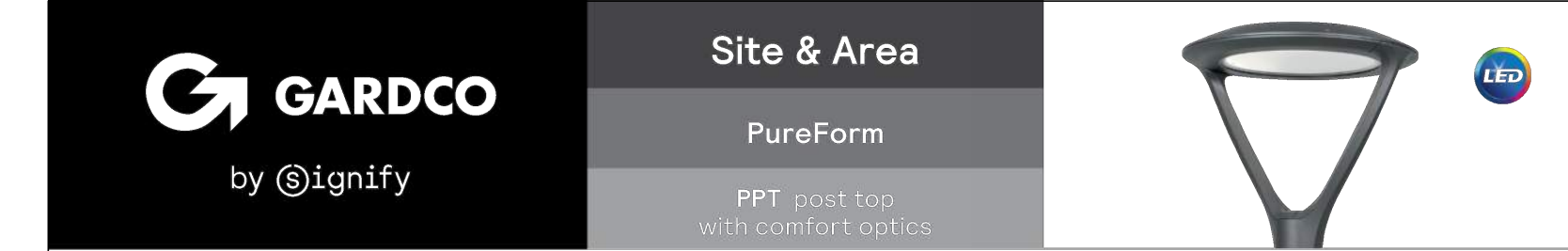
145 ALEXANDER AVE  
 N/F  
 COBUZZI ROBERT ANTHONY  
 BK. 20865 PG. 0379  
 PID 35-3

159 ALEXANDER AVE  
 N/F  
 SCARF JAMES J  
 DANIEL BK. 32066 PG. 146  
 BK. 8116 PG. 485  
 159 ALEXANDER AVE  
 PID 35-1

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

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

167 ALEXANDER AVE



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-DG9

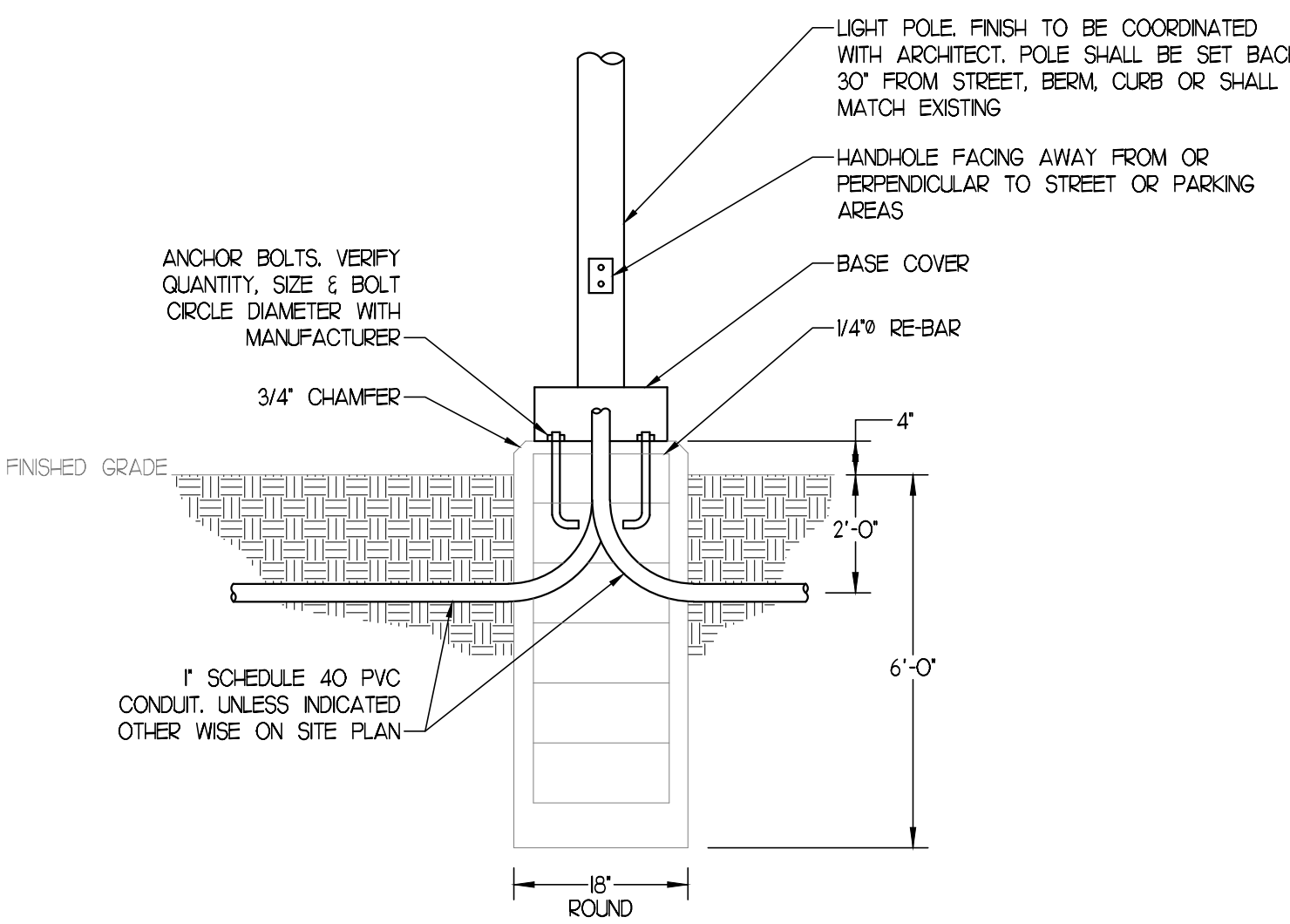
Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Emergency	Voltage
PPT	140L	450mA	WW-G2	T3	1	ESPC	120
PPT PureForm post top, comfort optics	140L	450mA / 650mA / 850mA / 1050mA / 1675mA / 2100mA	WW-G2 Warm White 3000K 70 CR Generation 2 NW-G2 Neutral White 4000K 70 CR Generation 2 CW-G2 Cool White 5000K 70 CR Generation 2 WY-G2 Warm Yellow 2700K 80 CR Generation 2 BW-G2 Balanced White 3500K 80 CR Generation 2 AM-G2 Amber Generation 2	T3 Mounts to a 3" x 4" Tenon (standard) T2 Mounts to a 3" x 4" Tenon (must be ordered and shipped as a separate accessory)	1 Comfort Type 1 2 Comfort Type 2 3 Comfort Type 3 4 Comfort Type 4 5 Comfort Type 5	ESPC Emergency battery pack cold weather ESB Emergency battery pack	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60Hz) HWV 347-480V (50/60Hz)

Dimming controls	Motion sensing	Photometry	Electrical noise	Finish
DD 0-10V External dimming (by others) FWS Field Adjustable Wattage Selector SW Interface module for SmartLife LIC Integral wireless module NL Bi-level functionality Dynamalmer Automatic Profile Dimming CS50 Security 50% Dimming, 7 hours CM50 Median 50% Dimming, 8 hours CS30 Security 30% Dimming, 7 hours CM30 Median 30% Dimming, 8 hours	IMR3 Integral with #3 lens IMR4 Integral with #4 lens	PCB Photocell TLR05 Twist Lock Receptacle 5 Pin TLR07 Twist Lock Receptacle 7 Pin TLR08 Twist Lock Receptacle 8 Pin TLR10 Twist Lock Receptacle 10 Pin TLR12 Twist Lock Receptacle 12 Pin TLR15 Twist Lock Receptacle 15 Pin TLR18 Twist Lock Receptacle 18 Pin TLR21 Twist Lock Receptacle 21 Pin TLR24 Twist Lock Receptacle 24 Pin TLR27 Twist Lock Receptacle 27 Pin TLR30 Twist Lock Receptacle 30 Pin TLR33 Twist Lock Receptacle 33 Pin TLR36 Twist Lock Receptacle 36 Pin TLR39 Twist Lock Receptacle 39 Pin TLR42 Twist Lock Receptacle 42 Pin TLR45 Twist Lock Receptacle 45 Pin TLR48 Twist Lock Receptacle 48 Pin TLR51 Twist Lock Receptacle 51 Pin TLR54 Twist Lock Receptacle 54 Pin TLR57 Twist Lock Receptacle 57 Pin TLR60 Twist Lock Receptacle 60 Pin TLR63 Twist Lock Receptacle 63 Pin TLR66 Twist Lock Receptacle 66 Pin TLR69 Twist Lock Receptacle 69 Pin TLR72 Twist Lock Receptacle 72 Pin TLR75 Twist Lock Receptacle 75 Pin TLR78 Twist Lock Receptacle 78 Pin TLR81 Twist Lock Receptacle 81 Pin TLR84 Twist Lock Receptacle 84 Pin TLR87 Twist Lock Receptacle 87 Pin TLR90 Twist Lock Receptacle 90 Pin TLR93 Twist Lock Receptacle 93 Pin TLR96 Twist Lock Receptacle 96 Pin TLR99 Twist Lock Receptacle 99 Pin TLR102 Twist Lock Receptacle 102 Pin TLR105 Twist Lock Receptacle 105 Pin TLR108 Twist Lock Receptacle 108 Pin TLR111 Twist Lock Receptacle 111 Pin TLR114 Twist Lock Receptacle 114 Pin TLR117 Twist Lock Receptacle 117 Pin TLR120 Twist Lock Receptacle 120 Pin	SP1 Standard SP2 Increased 20kA EMS External house side shield (factory installed)	BK Black WH White BZ Bronze GR Gray MG Medium Gray

1. 350, 1675, and 2100mA not available with emergency battery backup (ESB).
2. 2100mA not available with emergency battery backup cold weather (ESPC).
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 photocell.
7. Not available in 347 or 480V.
8. Available only in 120 or 277V.
9. Must specify exact voltage.
10. Dimming will not be connected to NEMA receptacle if ordering with other control options.
11. Not available in 480V.
12. Not available in 2100mA.
13. Not available with 120 and FWS dimming control options.
14. Number of luminaire that can be driven by a driver is dependent on total number of LEDs of the luminaire daily chain.
15. Not available in HVU, 347, 480 or DMG options.
16. Available with DMG option only.
17. Cannot be combined with HWJ and BL-MR3.



PPT\_PureForm\_post\_top 06/20 page 1 of 6



POLE BASE DETAIL  
NOT TO SCALE



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

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

Ordering guide - Luminaire

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

Prefix	Module Length	LED Module Qty	CRI & CCT	Board Generation	Optical System	Mounting Bracket	Wire Entry
TBL	2	24	700	G1	Asymmetrical	0d1	W1S
TBL TubeLine tunnel luminaire	2	24 LEDs / 48 LEDs	700 700CRI 3000K / 740 700CRI 4000K	Generation 1	DTA Standard Beam DTA-NB Narrow Beam DTA-WB Wide Beam Symmetrical: DTS Standard Beam DTS-NB Narrow Beam DTS-WB Wide Beam	0d1 Fix 0° version 1 0d2 Fix 0° version 2 0d3 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

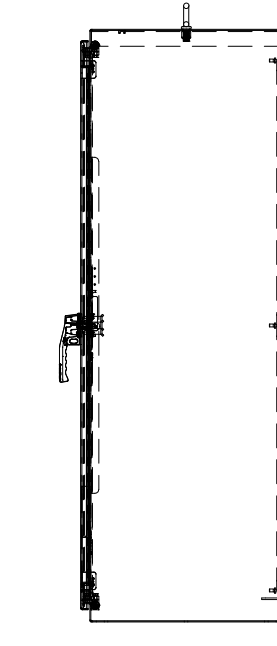
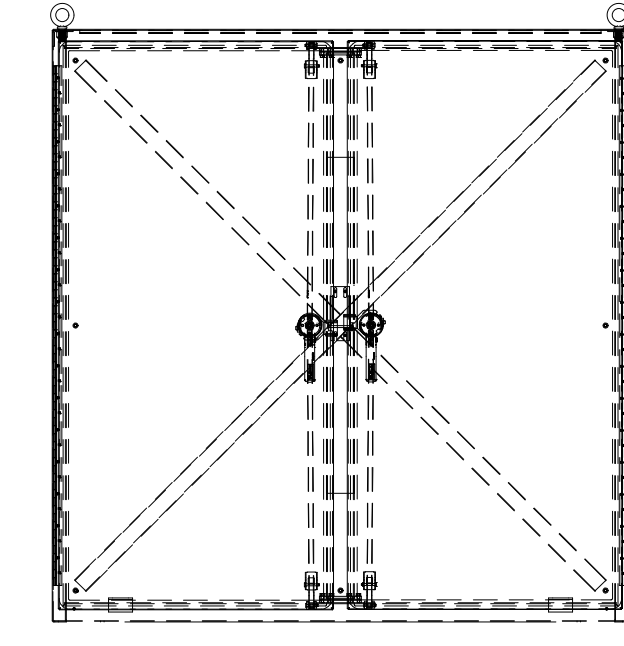
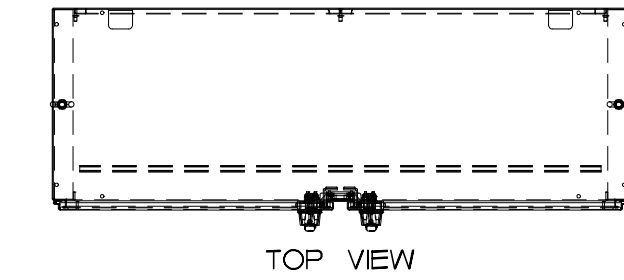
Prefix	Driver Qty	Driver 1 Watt and Drive Current	Driver 2 Watt and Drive Current	Ballast	Driver Options	Luminaire Options	Finish
TBX	1D	A 120-277VAC	A 120-277VAC	UNV	DMG 0-10V Digitally Adjustable Lighting interface	API Factory Installed NEMA label, ANSI C136 IS compliant	GY3 Gray
TBX TubeLine tunnel/underspan driver box	1D 2 Drivers	B 120V 208VAC C 120V 240VAC D 277V 277VAC E 347V 347VAC F 480V 480VAC	B 120V 208VAC C 120V 240VAC D 277V 277VAC E 347V 347VAC F 480V 480VAC	UNV 120-277VAC HVU 347-480VAC 120V 120VAC 208V 208VAC 240V 240VAC 277V 277VAC 347V 347VAC 480V 480VAC	DMG 0-10V Digitally Adjustable Lighting interface SRD Sensor Ready Driver standard configuration SRD1 Sensor Ready Driver alternate configuration	F1 Single Fuse Holder F2 Double Fuse Holder JBI Junction Box JBI 1" NPT entries JBI 1" NPT entries JBI 1" NPT entries JBI 1" NPT entries NER Nxx Emer Ready 347V 10kV Surge Protector (optional) SP2 20kV 10kA Surge Protector (optional) TLR Twist Lock Entry Latches TLR18 18" receptacle VPA Vandal Proof Access	

1. Extended lead-time may apply. Consult factory.
2. See chart below for descriptions.
3. Only available with 2D Driver Qty.
4. Specific voltage (120, 208, 240, 277, 347 or 480) must be specified with Fusing options (F1 or F2).
5. Select either DALI or DMG or SRD or SRD1 mandatory option.
6. Please note this integrated feature comes standard in this product.
7. Not available with HVU, 347V and 480V.
8. Only available with DMG Driver Options.
9. TLL and VPA option cannot be selected together.
10. Only available with 1D (1 Driver).
11. Only available with SRD or SRD1 Driver Options.
12. Not available with DMG Driver Option.
13. Not available with JBI or JBI2 options.

Driver Wattage and Current Selection Chart

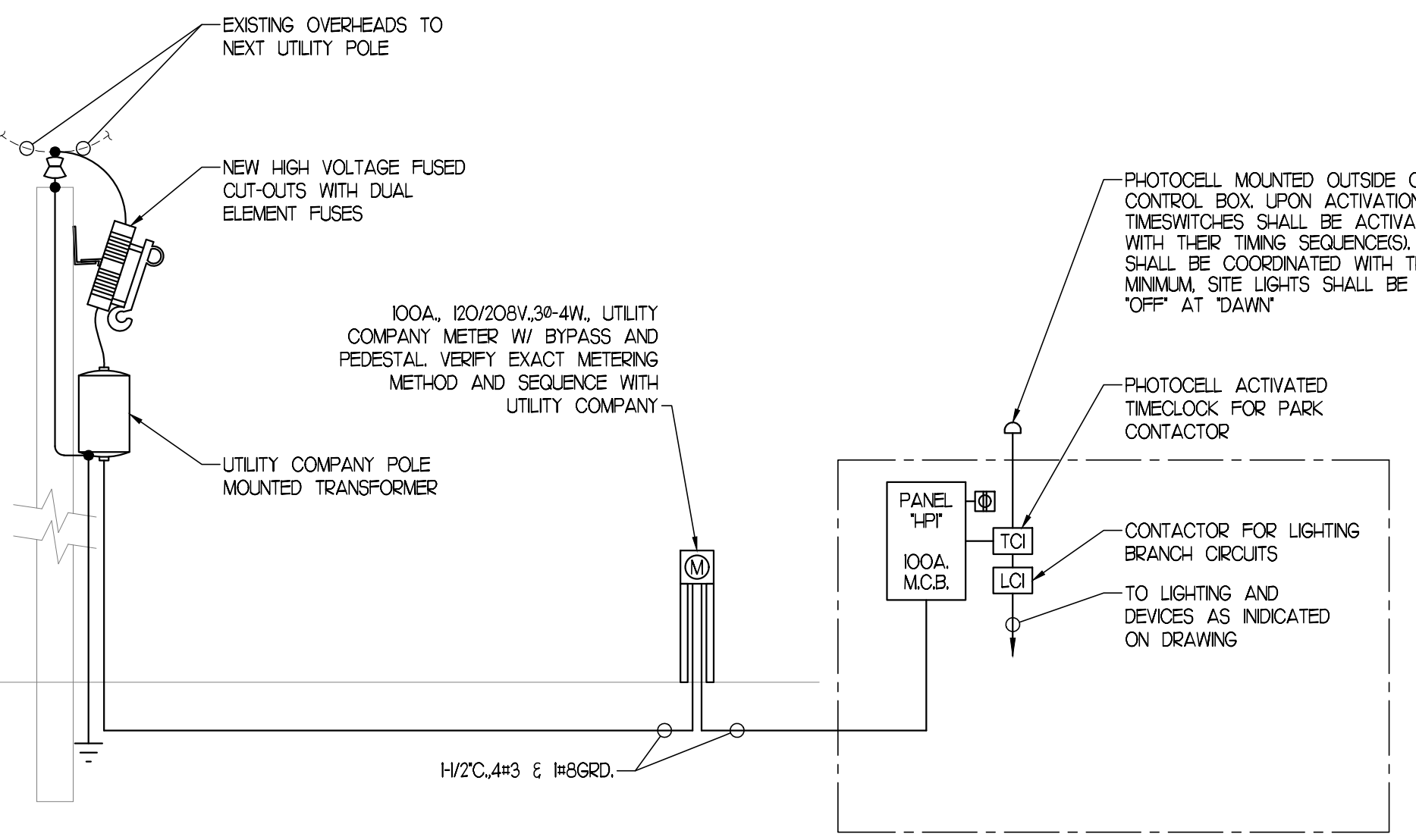
Drive Current (mA)	Driver Wattage/Current selection (Min/Max refers to numbers of LEDs) *		
	75W *	100W *	160W *
350	A Min: 12 Max: 24	B Min: 24 Max: 48	C Min: 36 Max: 72
530	D Min: 24 Max: 24	E Min: 24 Max: 48	F Min: 36 Max: 72
700	G Min: 24 Max: 24	H Min: 24 Max: 48	I Min: 36 Max: 72
1050	J Min: 12 Max: 24	K Min: 24 Max: 24	L Min: 24 Max: 60

Note: TBX system wattage is dictated by the sum of the luminaire wattages that are connected to it.  
 14. Number of luminaires that can be driven by a driver is dependent on total number of LEDs of the luminaire daily chain.  
 15. Not available in HVU, 347, 480 or DMG options.  
 16. Available with DMG option only.  
 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 4, P66 SUITED FOR USE IN OUTDOOR APPLICATIONS.
  - B. THE ENCLOSURE SHALL BE MANUFACTURED FROM 1/2 GAUGE TYPE 304 OR 316L STAINLESS STEEL. BACK PANELS SHALL BE 1/4 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.



POWER ONE-LINE  
SCALE: NOT TO SCALE



VINCENT A. DIORIO, INC.  
 CONSULTING ENGINEERS  
 89 Acacia Road, Suite 100  
 Norwood, Massachusetts 02062  
 Tel: (781) 255-9754 email: vadi@vadieng.com  
 www.vadieng.com

BELMONT  
 COMMUNITY PATH - PHASE 1  
 BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	62	157

PROJECT FILE NO. 609204

LIGHT FIXTURE SPECIFICATIONS

LUMINAIRE SCHEDULE							
Symbol	Label	Qty	Catalog Number	Description	Lamp	Lumens	LLF Watts
	P1	11	GARCO: 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-DFA-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



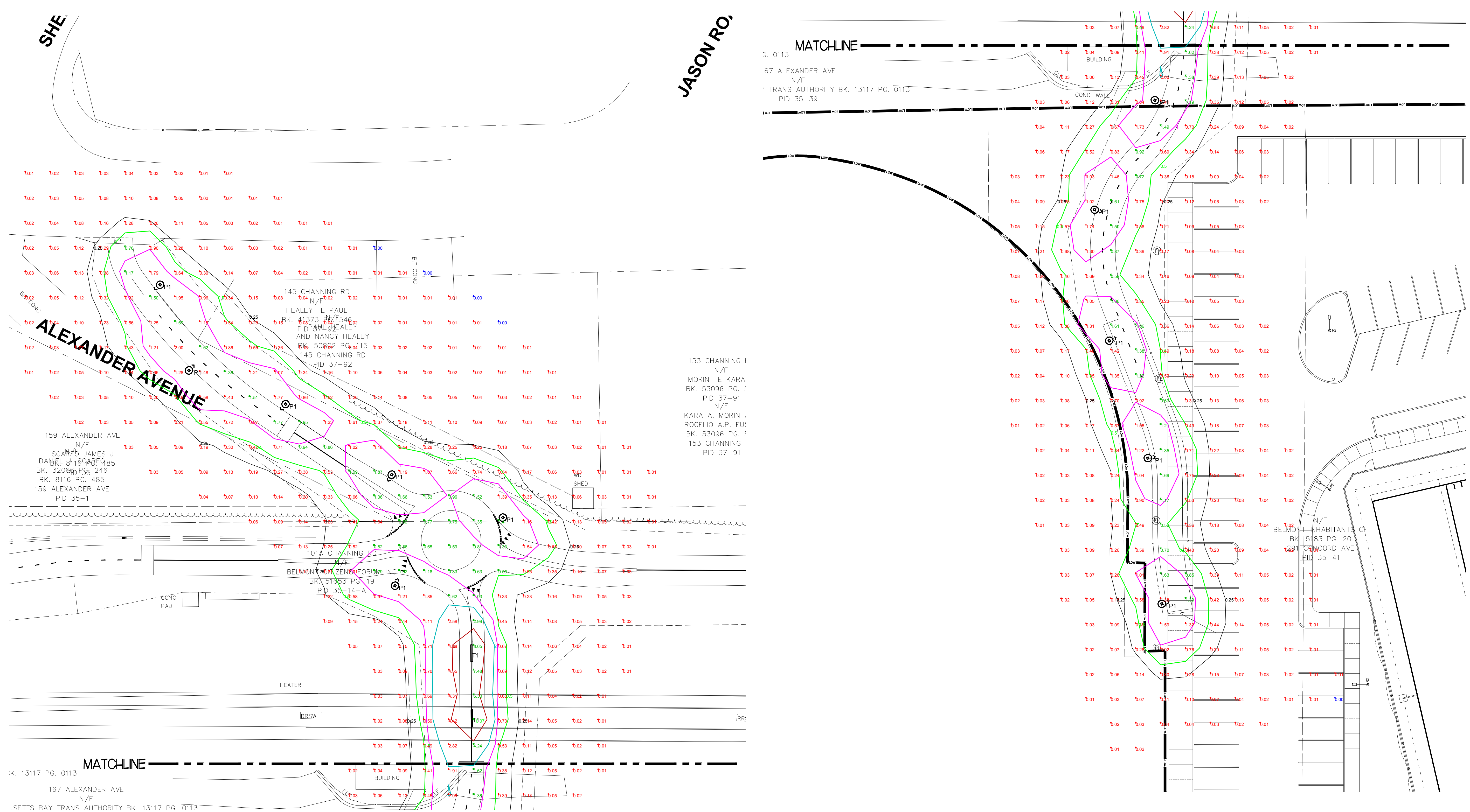
**VINCENT A. DIORIO, INC.**  
CONSULTING ENGINEERS  
100 State Street, Suite 1000  
Boston, Massachusetts 02109  
Tel: (617) 252-9774 Fax: (617) 252-9775  
www.vadi.com

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	63	157

PROJECT FILE NO. 609204

**PHOTOMETRIC PLAN**

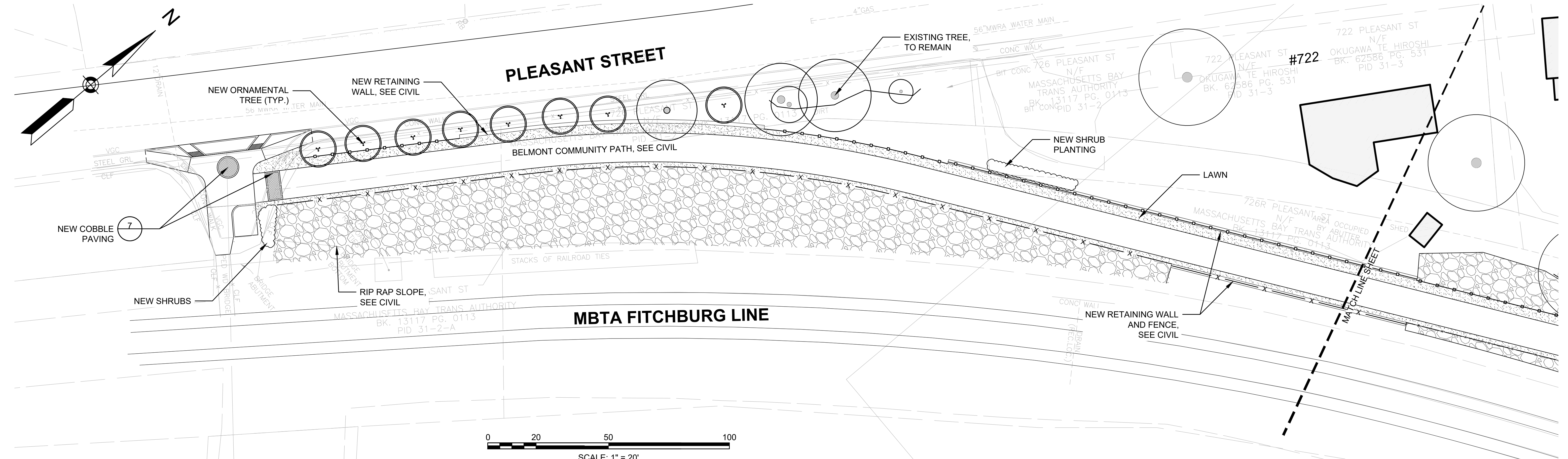


SHEET 01 - PHASE 1.DWG  
Plotted on: 26-Oct-2021 3:43 PM

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	64	157
PROJECT FILE NO.		609204	

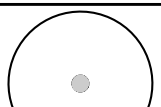


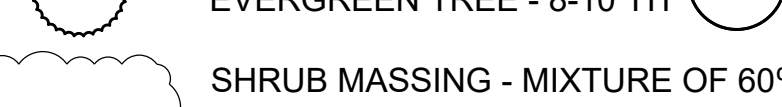


**LANDSCAPE PLANS**



**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUND COVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENCLOSES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

**PLANTING LEGEND**

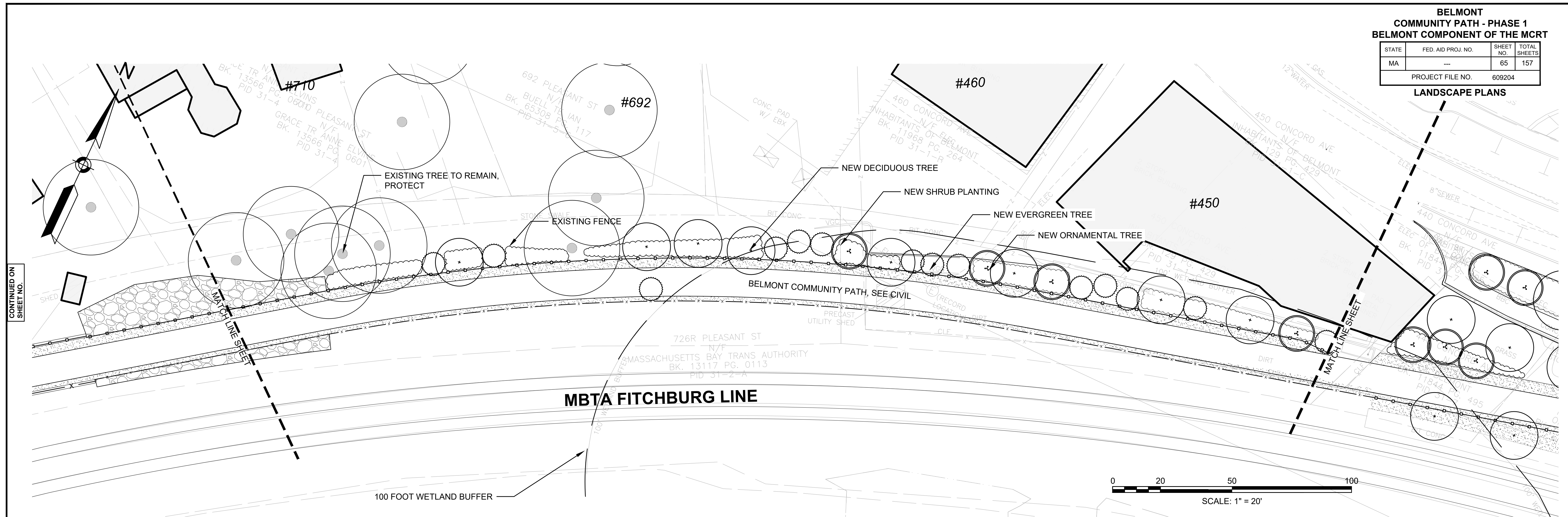
-  EXISTING TREE TO REMAIN
-  DECIDUOUS TREE - 2.5" - 3" CAL (3)
-  MULTI-STEM ORNAMENTAL TREE - 2"-2.5" CAL (3)
-  EVERGREEN TREE - 8-10' HT (1)
-  SHRUB MASSING - MIXTURE OF 60% DECIDUOUS AND 40% EVERGREEN SHRUBS, 3 GAL SIZE AND 36" O.C. AVG SPACING (4)
-  LAWN - SEED (5)



**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	65	157
PROJECT FILE NO.		609204	

**LANDSCAPE PLANS**



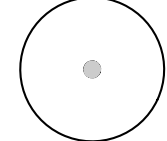

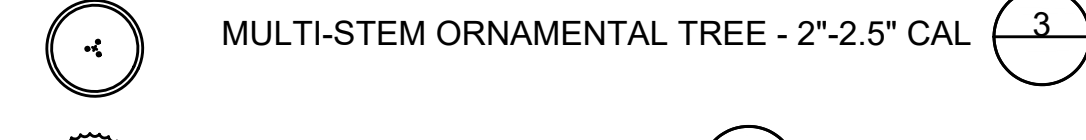
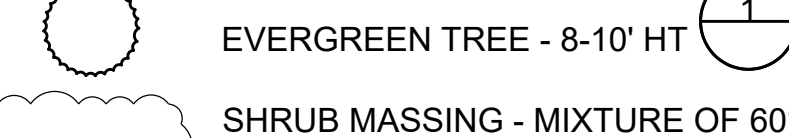
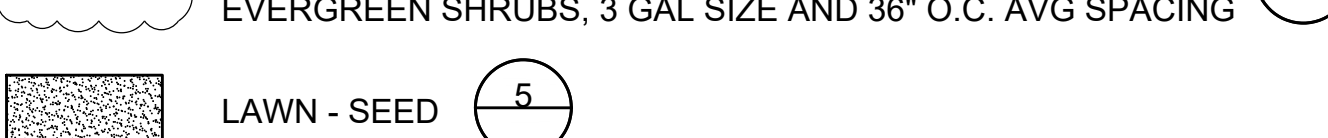

CONTINUED ON SHEET NO. 65

CONTINUED ON SHEET NO. 66

**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUND COVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENCROACHES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

**PLANTING LEGEND**

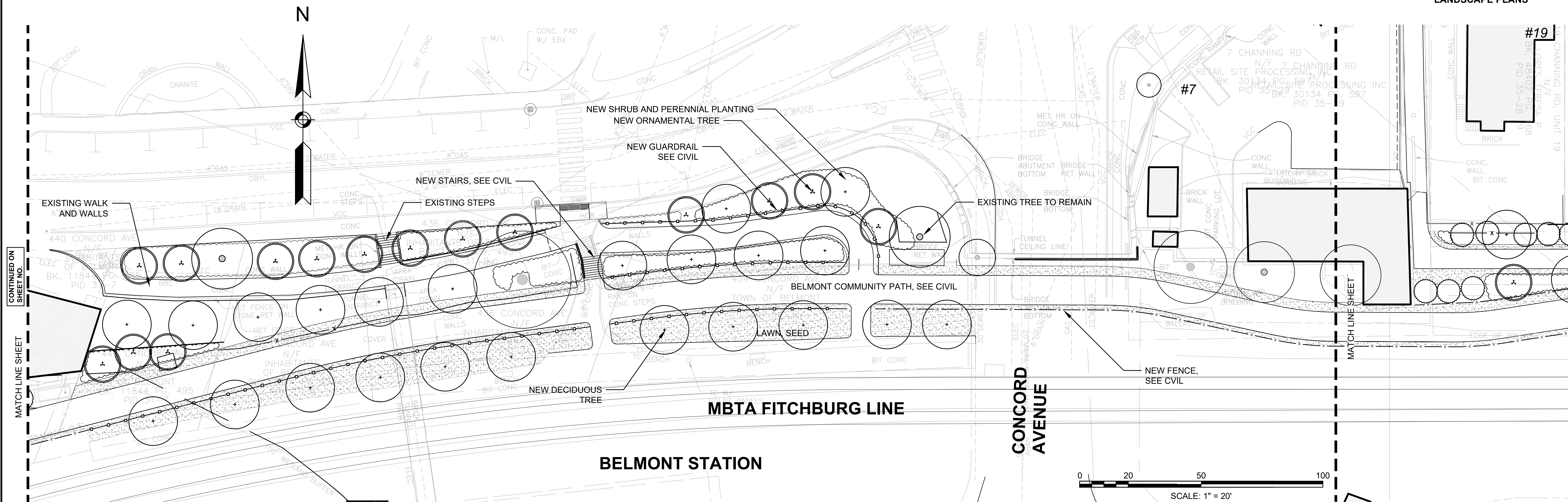
-  EXISTING TREE TO REMAIN
-  DECIDUOUS TREE - 2.5" - 3" CAL (3)
-  MULTI-STEM ORNAMENTAL TREE - 2"-2.5" CAL (3)
-  EVERGREEN TREE - 8-10' HT (1)
-  SHRUB MASSING - MIXTURE OF 60% DECIDUOUS AND 40% EVERGREEN SHRUBS, 3 GAL SIZE AND 36" O.C. AVG SPACING (4)
-  LAWN - SEED (5)

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	66	157

PROJECT FILE NO. 609204

**LANDSCAPE PLANS**

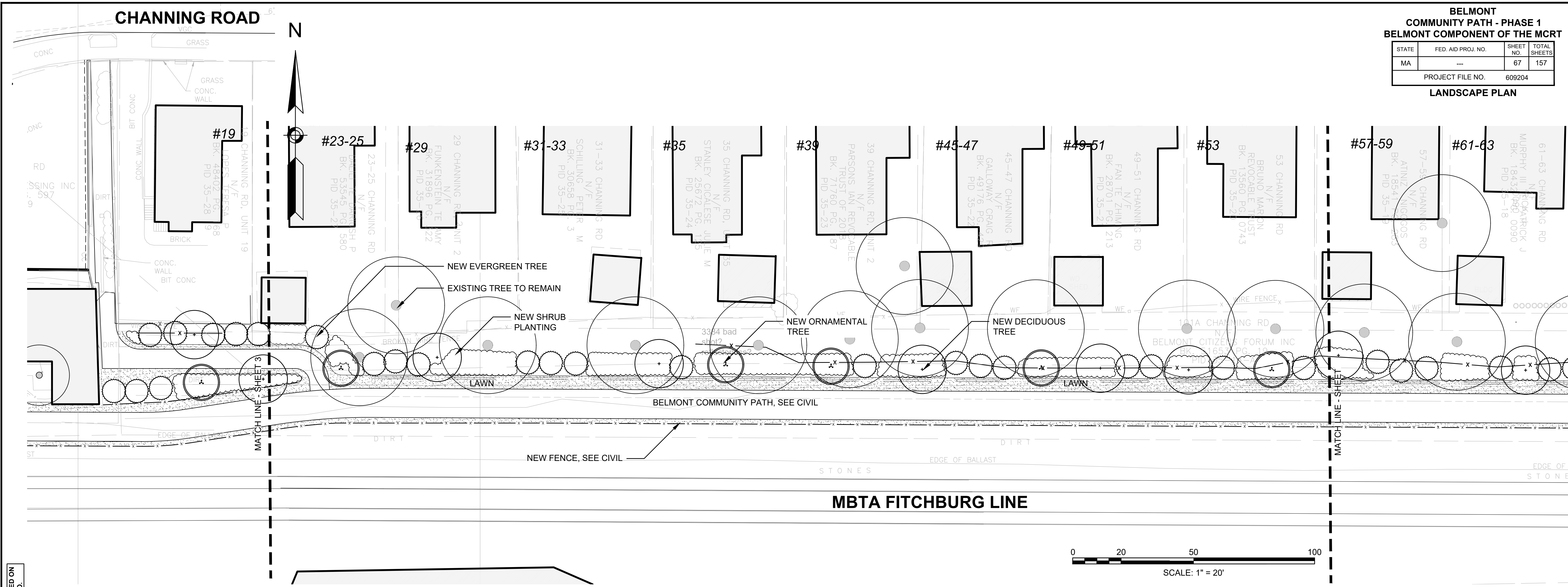


**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUNDCOVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENCLOSES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

**PLANTING LEGEND**

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE - 2.5" - 3" CAL 3
- MULTI-STEM ORNAMENTAL TREE - 2"-2.5" CAL 3
- EVERGREEN TREE - 8-10' HT 1
- SHRUB MASSING - MIXTURE OF 60% DECIDUOUS AND 40% EVERGREEN SHRUBS, 3 GAL SIZE AND 36" O.C. AVG SPACING 4
- LAWN - SEED 5



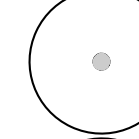
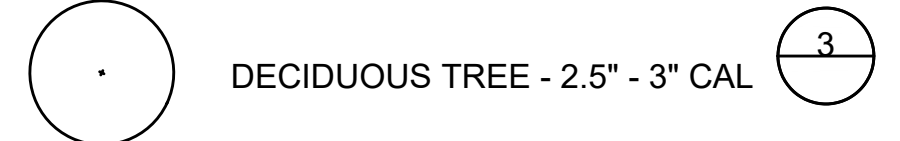
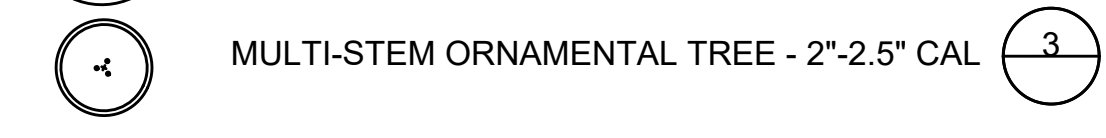
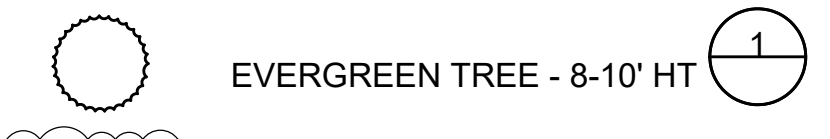
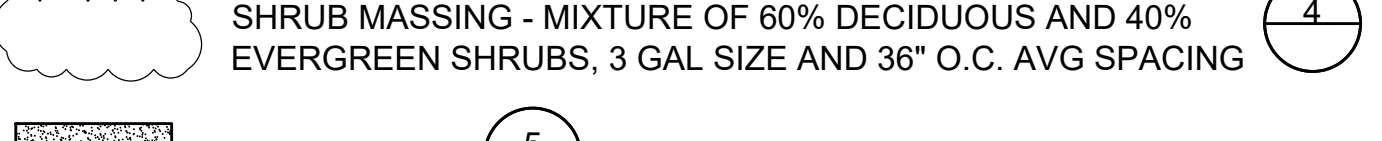

CONTINUED ON SHEET NO.

CONTINUED ON SHEET NO.

**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUNDCOVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENCLOSES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

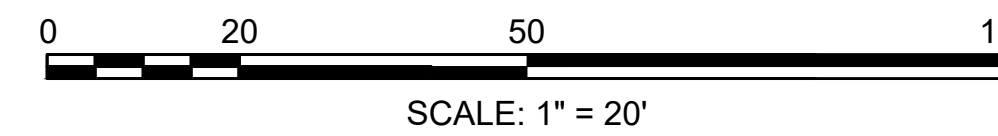
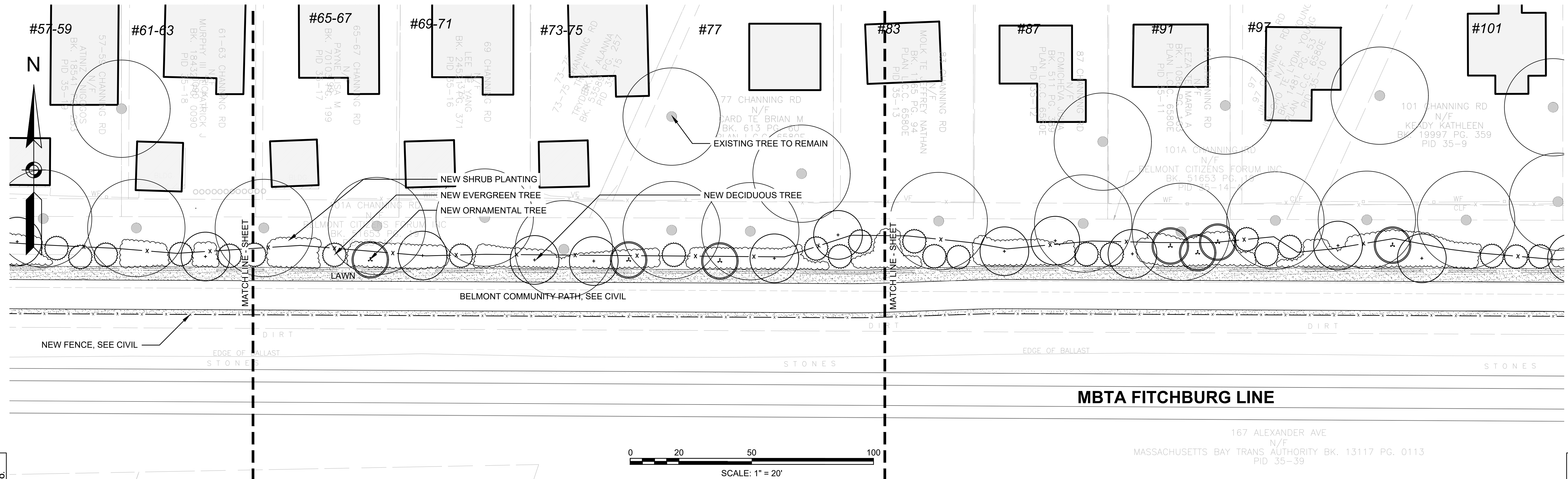
**PLANTING LEGEND**

-  EXISTING TREE TO REMAIN
-  DECIDUOUS TREE - 2.5" - 3" CAL (3)
-  MULTI-STEM ORNAMENTAL TREE - 2"-2.5" CAL (3)
-  EVERGREEN TREE - 8-10' HT (1)
-  SHRUB MASSING - MIXTURE OF 60% DECIDUOUS AND 40% EVERGREEN SHRUBS, 3 GAL SIZE AND 36" O.C. AVG SPACING (4)
-  LAWN - SEED (5)

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	68	157
PROJECT FILE NO. 609204			

**LANDSCAPE PLAN**



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

**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUNDCOVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENCROACHES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

**PLANTING LEGEND**

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE - 2.5" - 3" CAL (3)
- MULTI-STEM ORNAMENTAL TREE - 2"-2.5" CAL (4)
- EVERGREEN TREE - 8-10' HT (1)
- SHRUB MASSING - MIXTURE OF 60% DECIDUOUS AND 40% EVERGREEN SHRUBS, 3 GAL SIZE AND 36" O.C. AVG SPACING (4)
- LAWN - SEED (5)

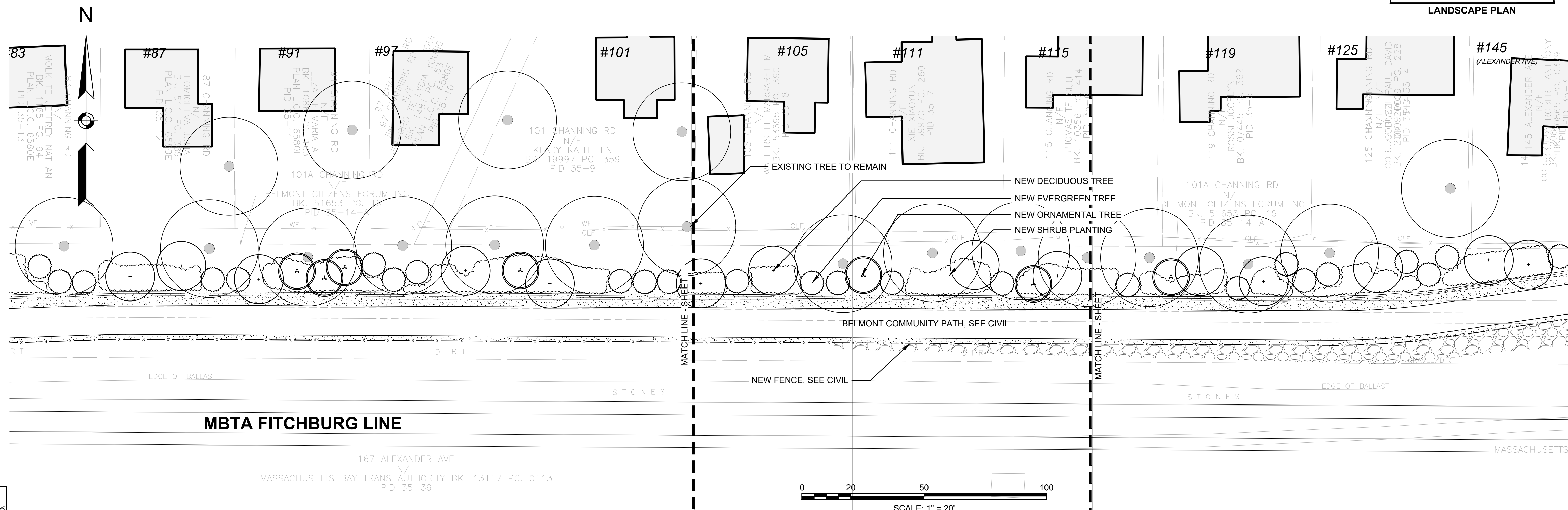
CONTINUED ON SHEET NO.

CONTINUED ON SHEET NO.

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	69	157
PROJECT FILE NO. 609204			

**LANDSCAPE PLAN**



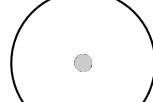
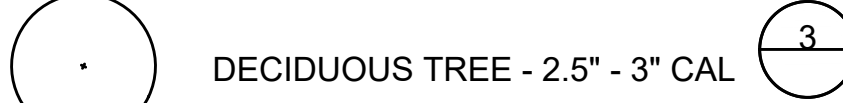
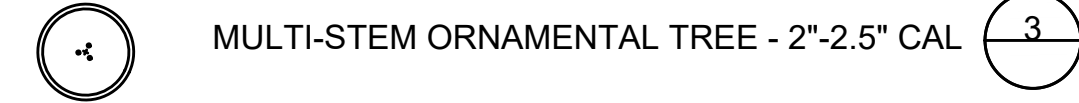

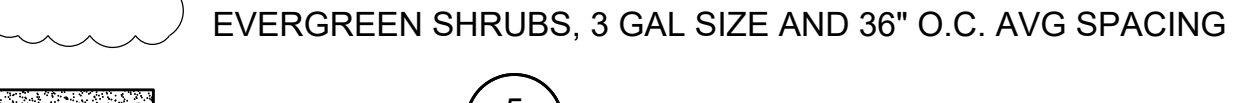

CONTINUED ON SHEET NO.

CONTINUED ON SHEET NO.

**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUNDCOVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENCROACHES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

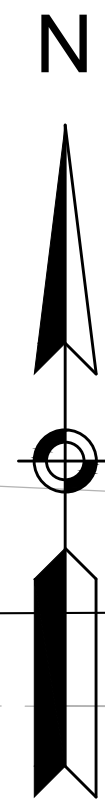
**PLANTING LEGEND**

-  EXISTING TREE TO REMAIN
-  DECIDUOUS TREE - 2.5" - 3" CAL 3
-  MULTI-STEM ORNAMENTAL TREE - 2"-2.5" CAL 3
-  EVERGREEN TREE - 8-10' HT 1
-  SHRUB MASSING - MIXTURE OF 60% DECIDUOUS AND 40% EVERGREEN SHRUBS, 3 GAL SIZE AND 36" O.C. AVG SPACING 4
-  LAWN - SEED 5

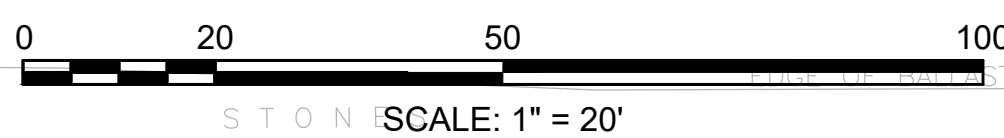
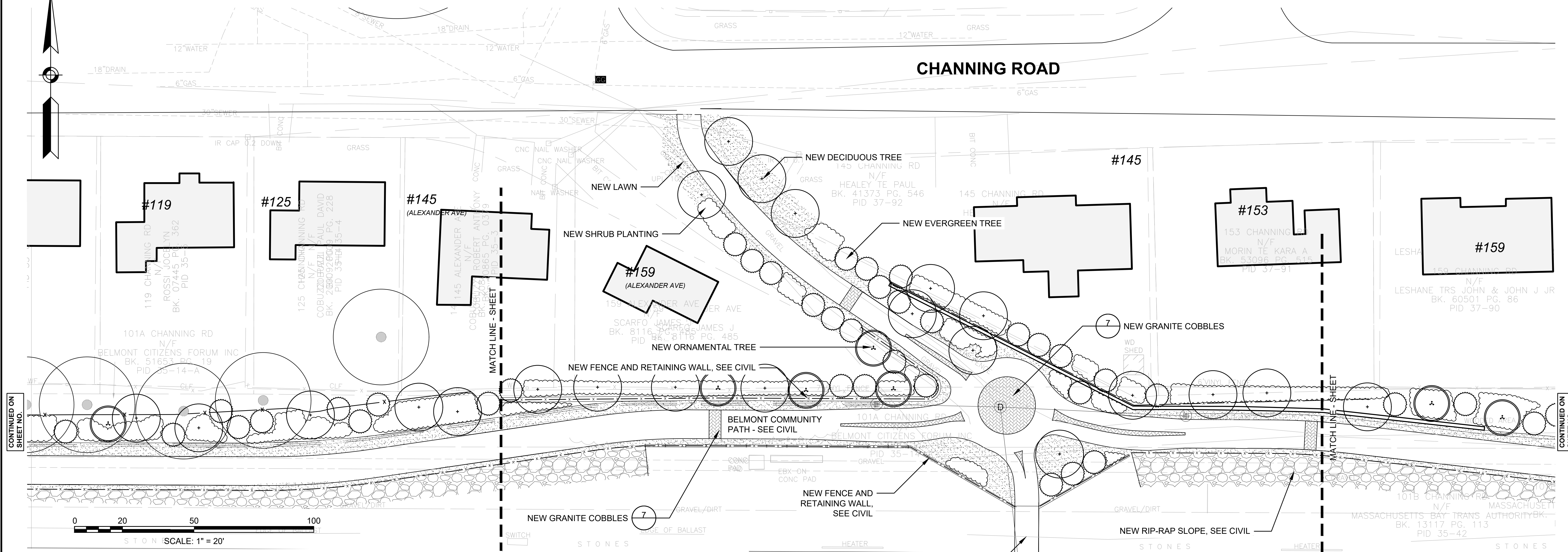
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	70	157
PROJECT FILE NO. 609204			

**LANDSCAPE PLAN**



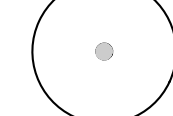
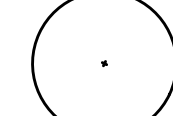
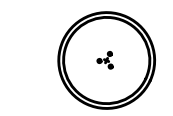
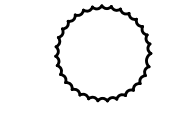
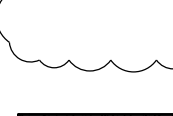
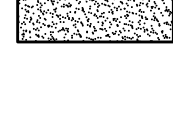
**CHANNING ROAD**



**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUND COVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENDOACHES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

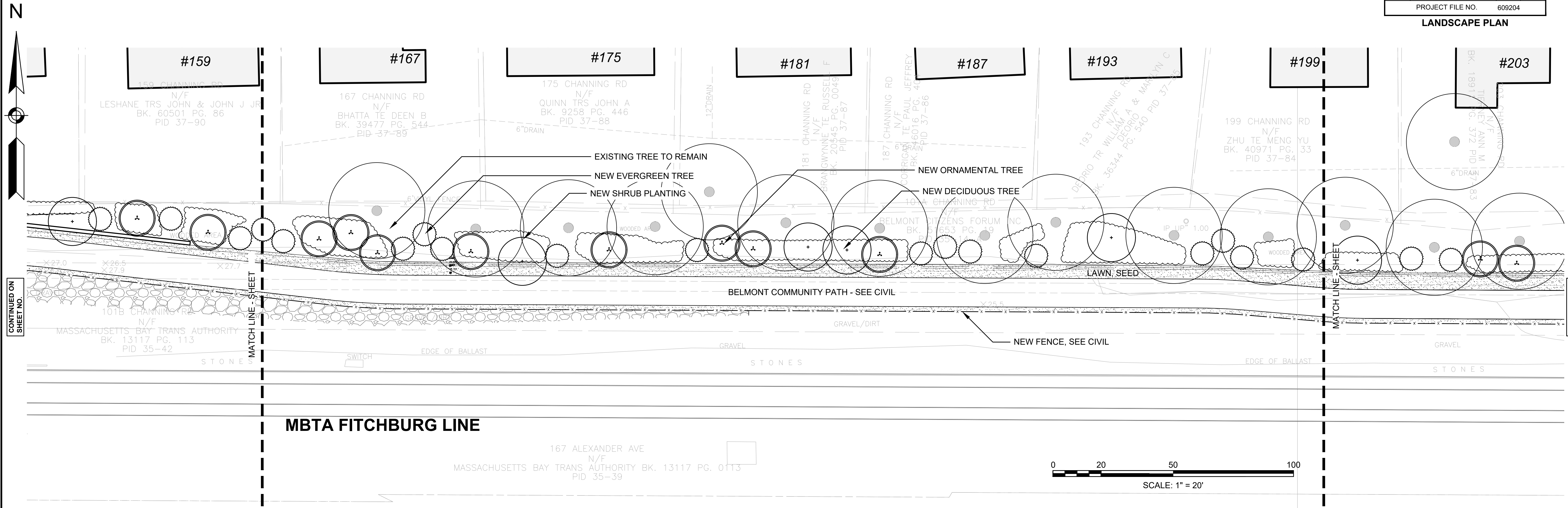
**PLANTING LEGEND**

-  EXISTING TREE TO REMAIN
-  DECIDUOUS TREE - 2.5" - 3" CAL 3
-  MULTI-STEM ORNAMENTAL TREE - 2"-2.5" CAL 4
-  EVERGREEN TREE - 8-10' HT 1
-  SHRUB MASSING - MIXTURE OF 60% DECIDUOUS AND 40% EVERGREEN SHRUBS, 3 GAL SIZE AND 36" O.C. AVG SPACING 4
-  LAWN - SEED 5

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	71	157
PROJECT FILE NO.		609204	

**LANDSCAPE PLAN**



**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUNDCOVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENCROACHES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

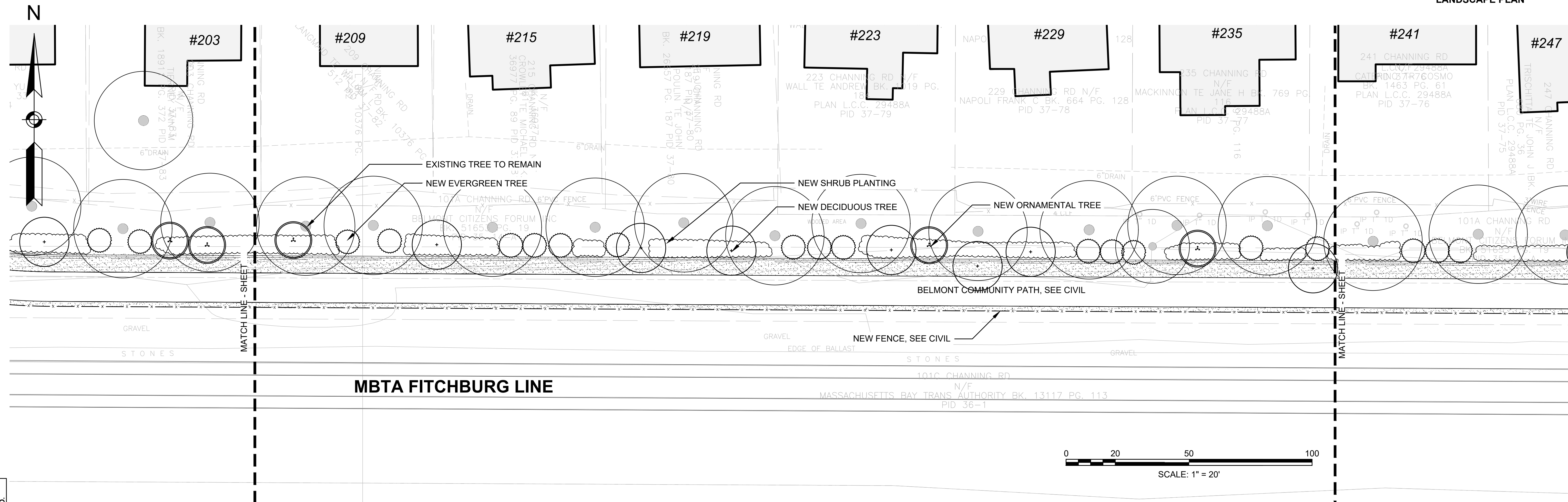
**PLANTING LEGEND**

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE - 2.5" - 3" CAL (3)
- MULTI-STEM ORNAMENTAL TREE - 2"-2.5" CAL (3)
- EVERGREEN TREE - 8-10' HT (1)
- SHRUB MASSING - MIXTURE OF 60% DECIDUOUS AND 40% EVERGREEN SHRUBS, 3 GAL SIZE AND 36" O.C. AVG SPACING (4)
- LAWN - SEED (5)

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	72	157
PROJECT FILE NO. 609204			

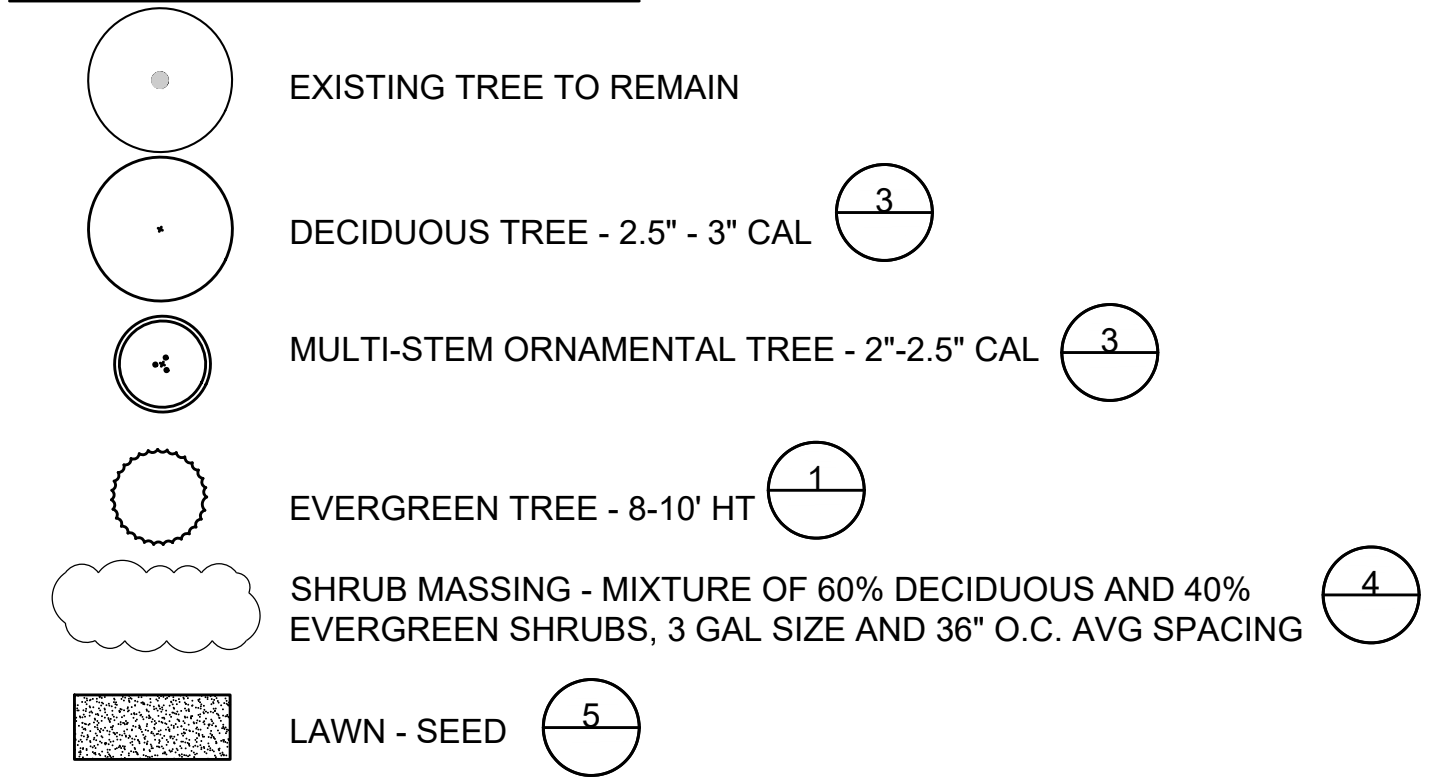
**LANDSCAPE PLAN**



**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUNDCOVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENCROACHES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

**PLANTING LEGEND**

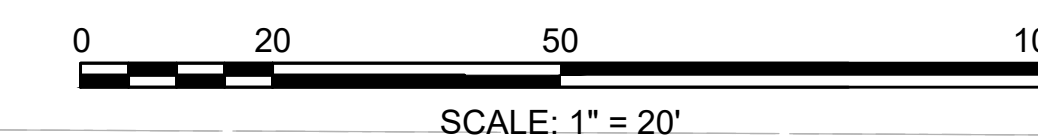
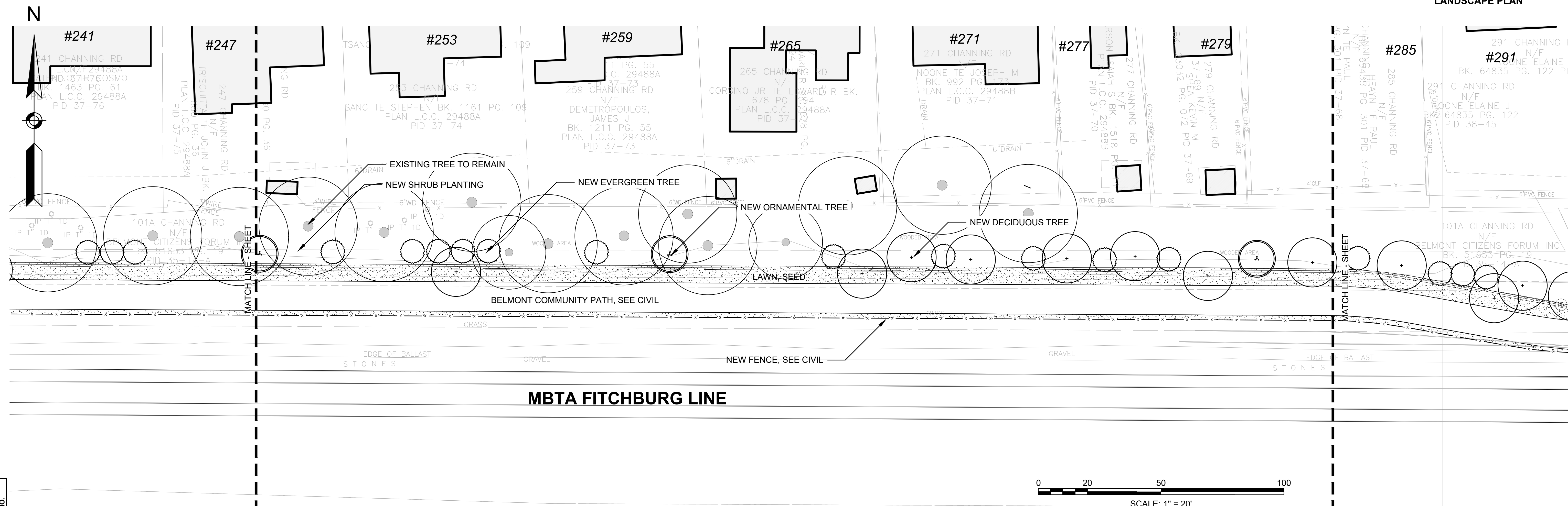




**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	73	157
PROJECT FILE NO.		609204	

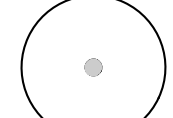
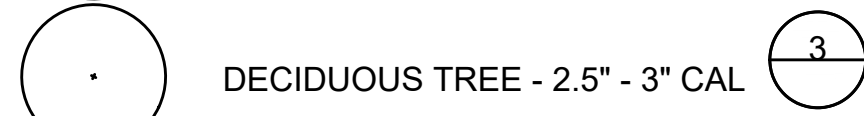

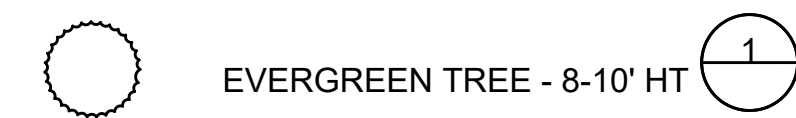
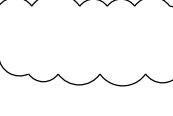

**LANDSCAPE PLAN**



**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUNDCOVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENCROACHES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

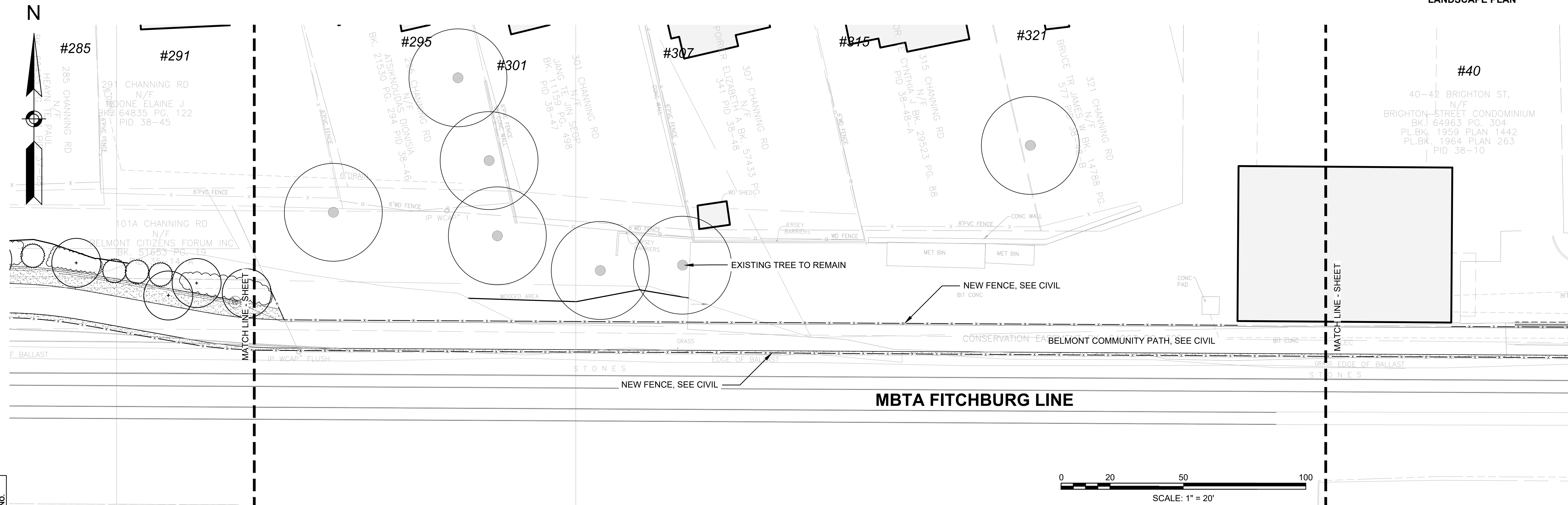
**PLANTING LEGEND**

-  EXISTING TREE TO REMAIN
-  DECIDUOUS TREE - 2.5" - 3" CAL (3)
-  MULTI-STEM ORNAMENTAL TREE - 2"-2.5" CAL (4)
-  EVERGREEN TREE - 8-10" HT (1)
-  SHRUB MASSING - MIXTURE OF 60% DECIDUOUS AND 40% EVERGREEN SHRUBS, 3 GAL SIZE AND 36" O.C. AVG SPACING (4)
-  LAWN - SEED (5)

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	74	157
PROJECT FILE NO. 609204			

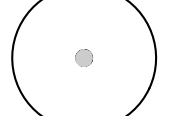

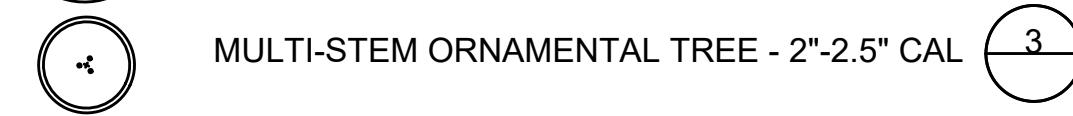



**LANDSCAPE PLAN**



**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUND COVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENCROACHES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

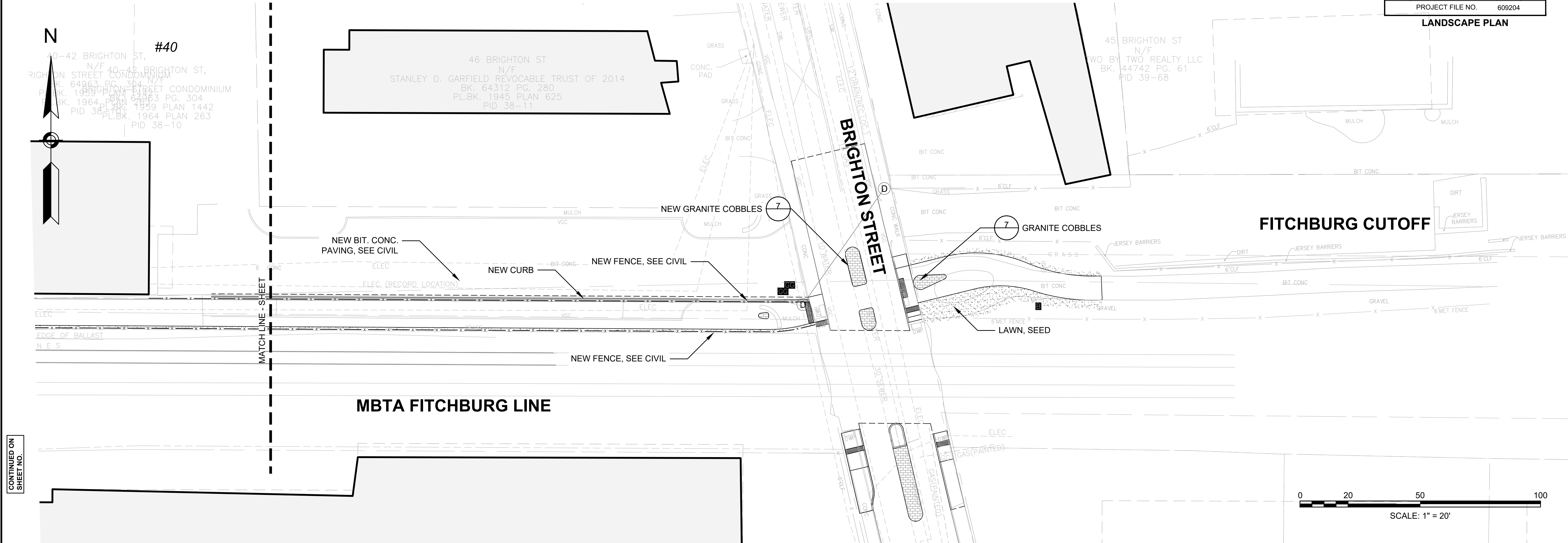
**PLANTING LEGEND**

-  EXISTING TREE TO REMAIN
-  DECIDUOUS TREE - 2.5' - 3" CAL 3
-  MULTI-STEM ORNAMENTAL TREE - 2"-2.5" CAL 4
-  EVERGREEN TREE - 8-10' HT 1
-  SHRUB MASSING - MIXTURE OF 60% DECIDUOUS AND 40% EVERGREEN SHRUBS, 3 GAL SIZE AND 36" O.C. AVG SPACING 4
-  LAWN - SEED 5

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	75	157
PROJECT FILE NO.		609204	

**LANDSCAPE PLAN**

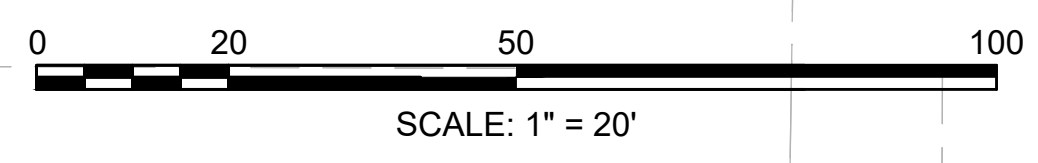


**PLANTING AND SOIL NOTES**

- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT LIST, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
- THE LANDSCAPE ARCHITECT SHALL ONLY REVIEW TREES THAT ARE IN THE GROUND AT THE NURSERY. NO PRE-DUG TREES WILL BE ACCEPTED. THEREFORE TIMING OF IN-GROUND REVIEWS MUST BE COORDINATED WITH EXPECTED INSTALLATION DATES.
- ALL NEW PLANTS TO BE BALLED & BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- NEW SHRUBS AND GROUND COVER SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PLANT BEDS TO RECEIVE UN-DYED, AGED AND SHREDDED BARK MULCH AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
- PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL BE MAINTAINED BY CONTRACTOR UNTIL FINAL ACCEPTANCE AND GUARANTEED FOR 1 CALENDAR YEAR.
- CONFIRM ALL QUANTITIES AGAINST PLANTING PLANS, GRADING PLANS, AND SPECIFICATIONS, INCLUDING SITE DISTURBANCE OUTSIDE OF THE LIMIT OF GRADING NECESSITATED TO FACILITATE CONSTRUCTION.
- WHERE SAND AND GRAVEL ARE SPECIFIED FOR A DRAINAGE LAYER, EXTEND DRAINAGE LAYER TO ASSOCIATED DRAIN LINES, DRAINAGE AREAS, OR DAYLIGHT.
- WHERE ONE SOIL TYPE MEETS ANOTHER SOIL TYPE, FORM A 1:1 SLOPED BOUNDARY TRANSITION.
- WHERE A SOIL PROFILE ENCROACHES WITHIN THE DRIP LINE OF EXISTING TREES, CONSULT WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCING EXCAVATION.
- ALL EXCAVATION AND PLACEMENT OF SOILS WITHIN THE DRIP LINE OF EXISTING TREES TO BE PERFORMED BY HAND.
- SCARIFY SUBGRADE AS SPECIFIED BEFORE PLACEMENT OF ANY PLANTING SOILS.
- DO NOT PLACE OR HANDLE SOILS THAT ARE WET.
- PROTECT ALL EXISTING SOILS AGAINST COMPACTION, CONTAMINATION WITH CONSTRUCTION MATERIALS, AND ALL DISTURBANCE.
- CONTRACTOR IS RESPONSIBLE FOR ACTUAL SITE CONDITIONS, COORDINATION OF SOILS PLACEMENT, AND PLANTING SUBDRAINAGE.
- DO NOT PLACE ANY PLANTING SOIL PRIOR TO INSPECTION BY LANDSCAPE ARCHITECT.

**PLANTING LEGEND**

- EXISTING TREE TO REMAIN
- DECIDUOUS TREE - 2.5" - 3" CAL 3
- MULTI-STEM ORNAMENTAL TREE - 2"-2.5" CAL 4
- EVERGREEN TREE - 8-10' HT 1
- SHRUB MASSING - MIXTURE OF 60% DECIDUOUS AND 40% EVERGREEN SHRUBS, 3 GAL SIZE AND 36" O.C. AVG SPACING 4
- LAWN - SEED 5



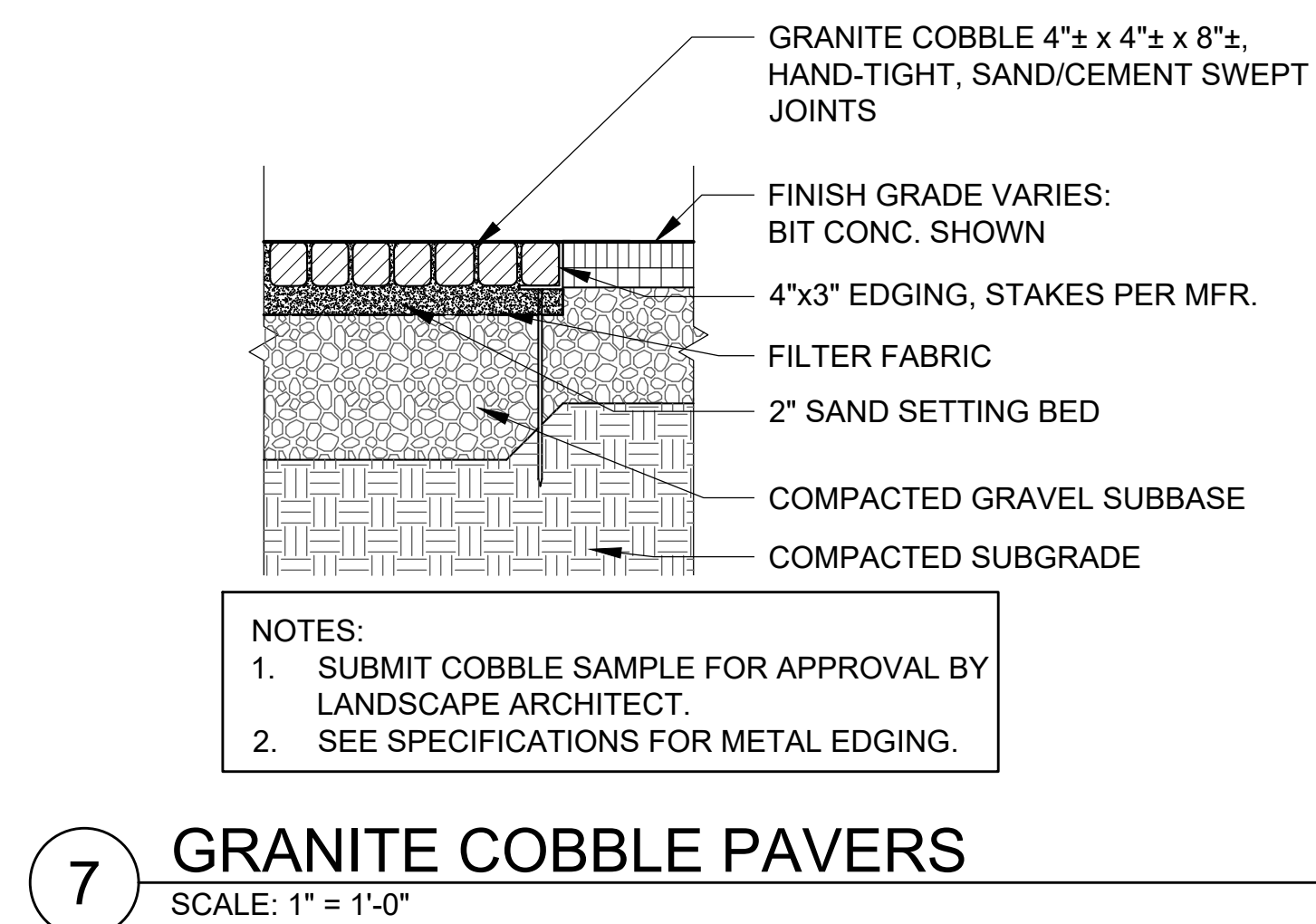
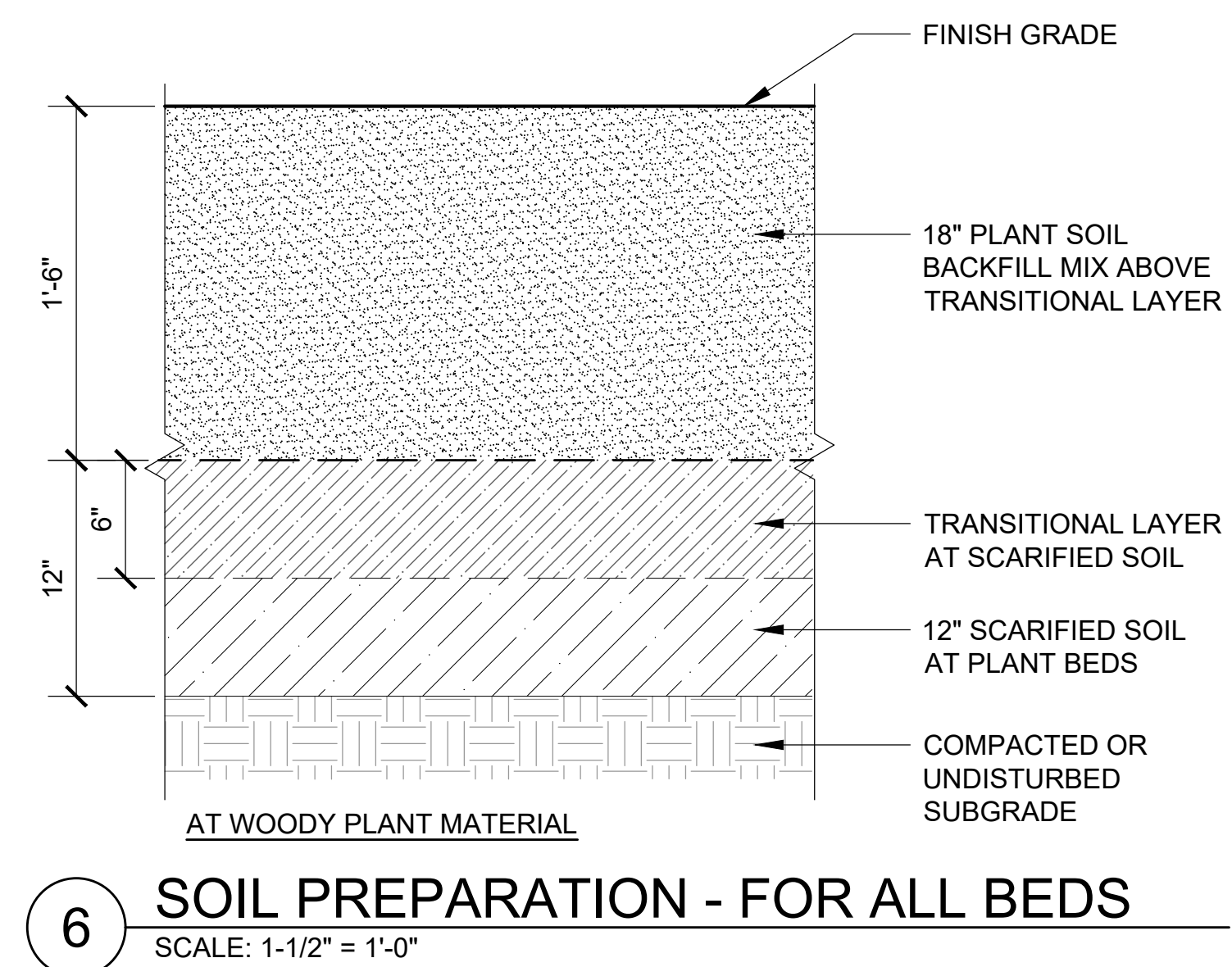
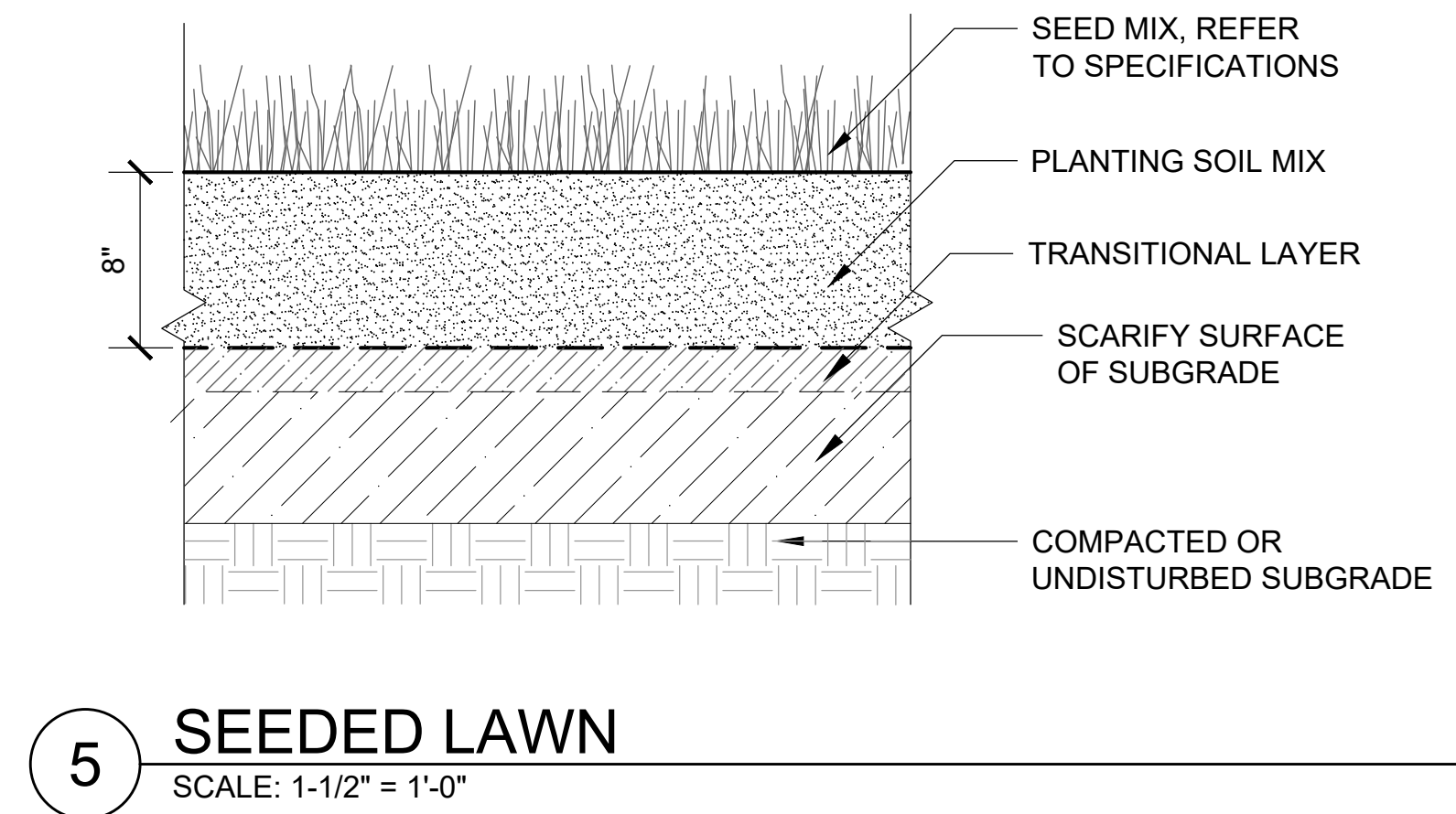
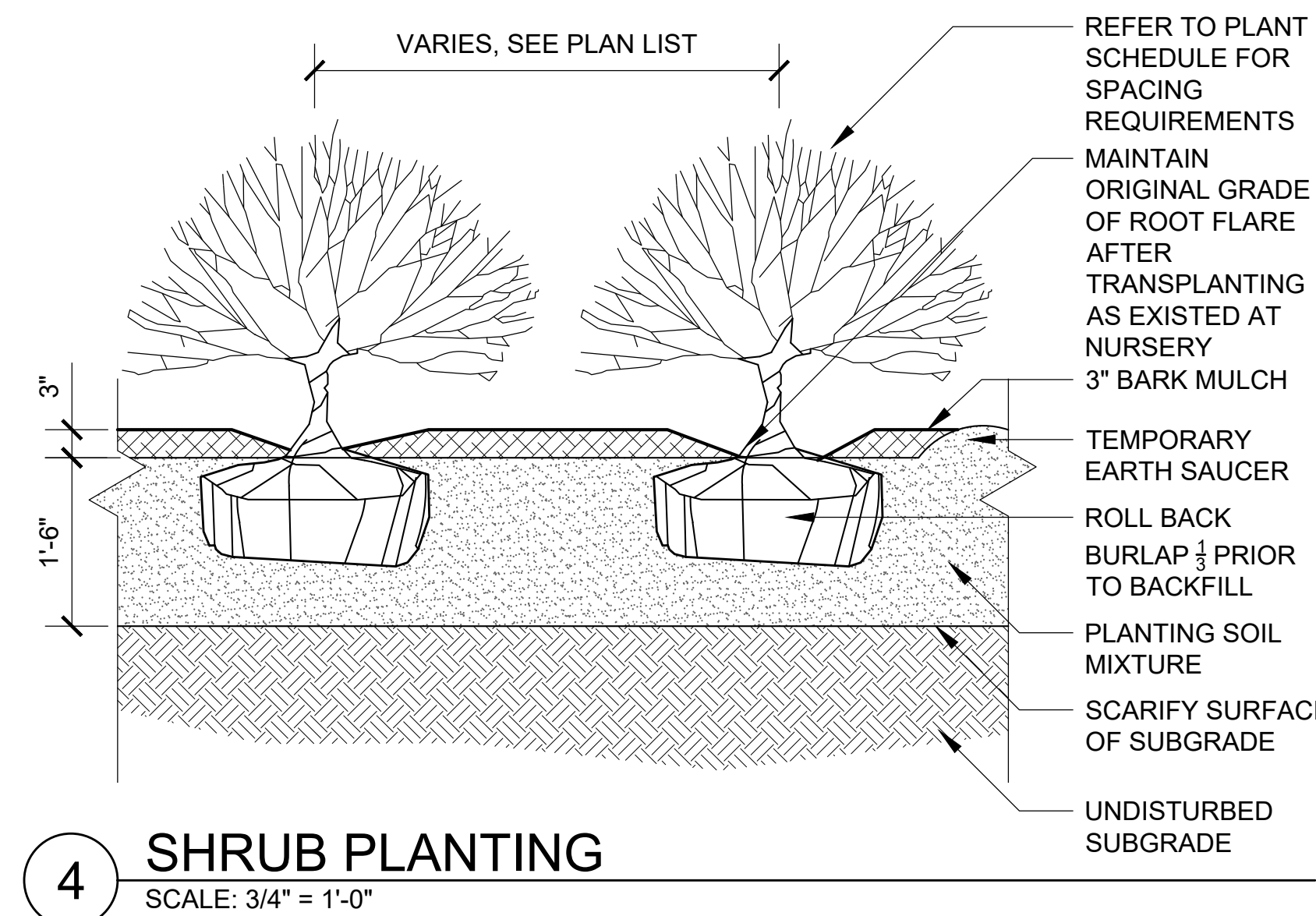
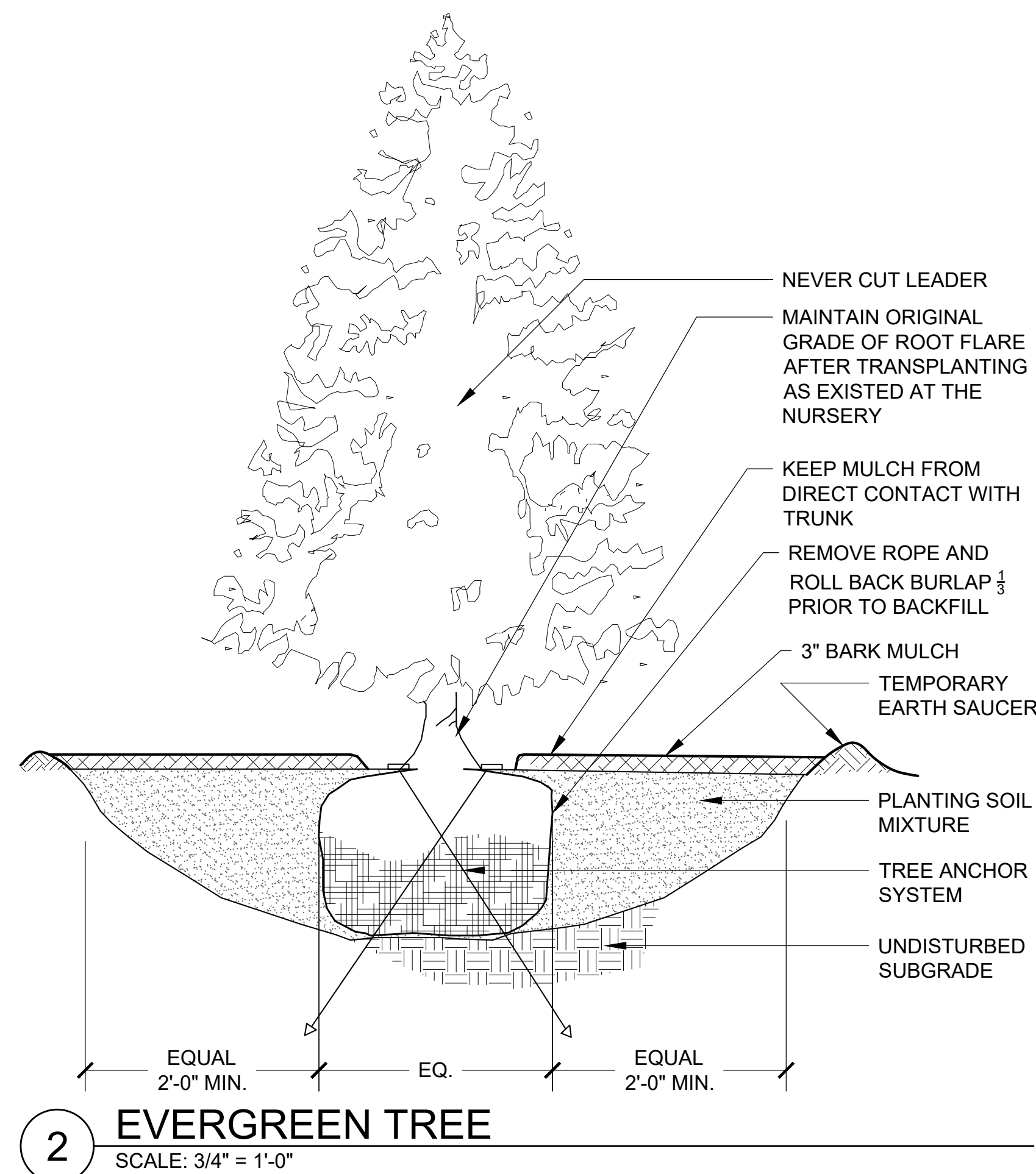
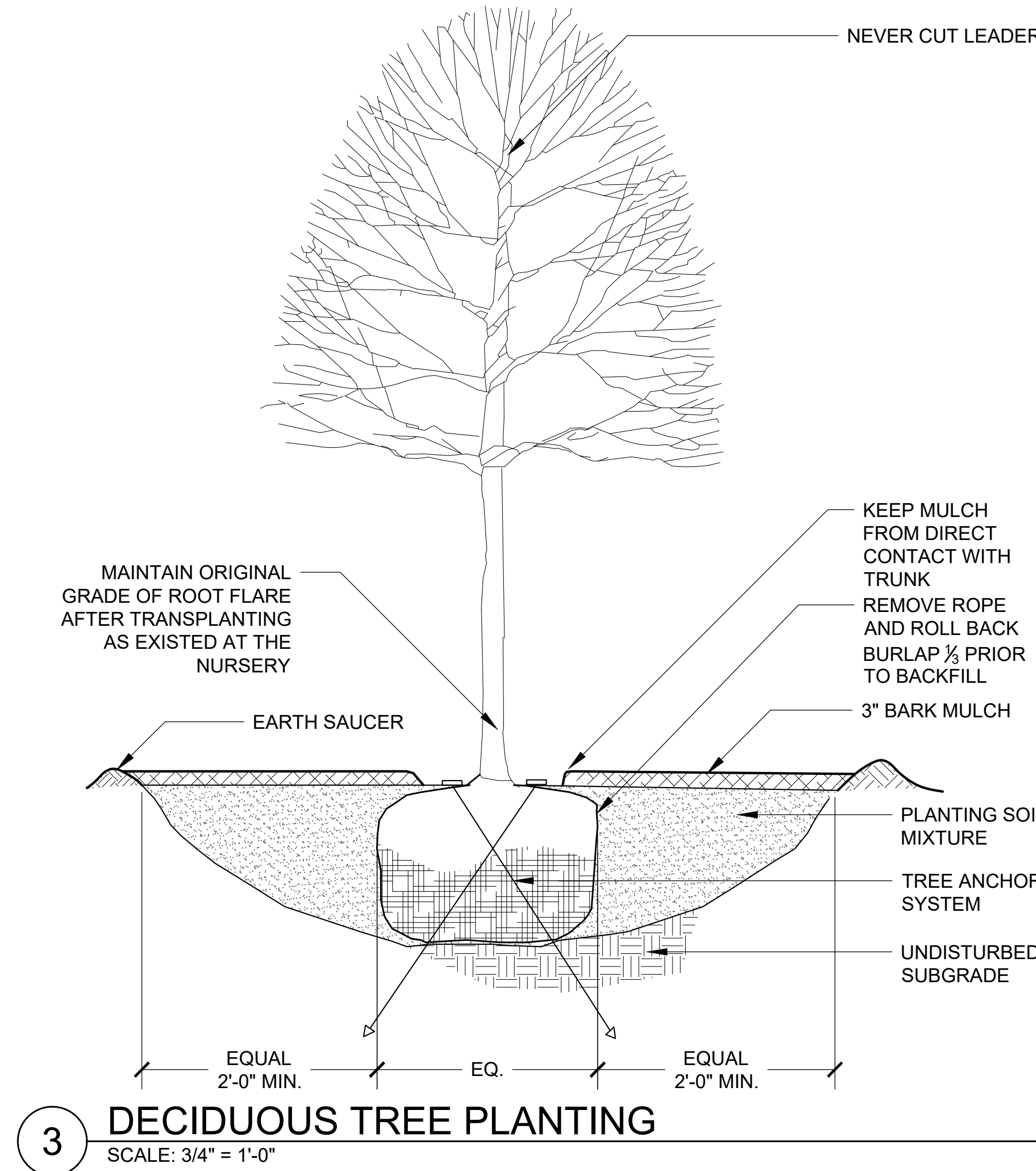
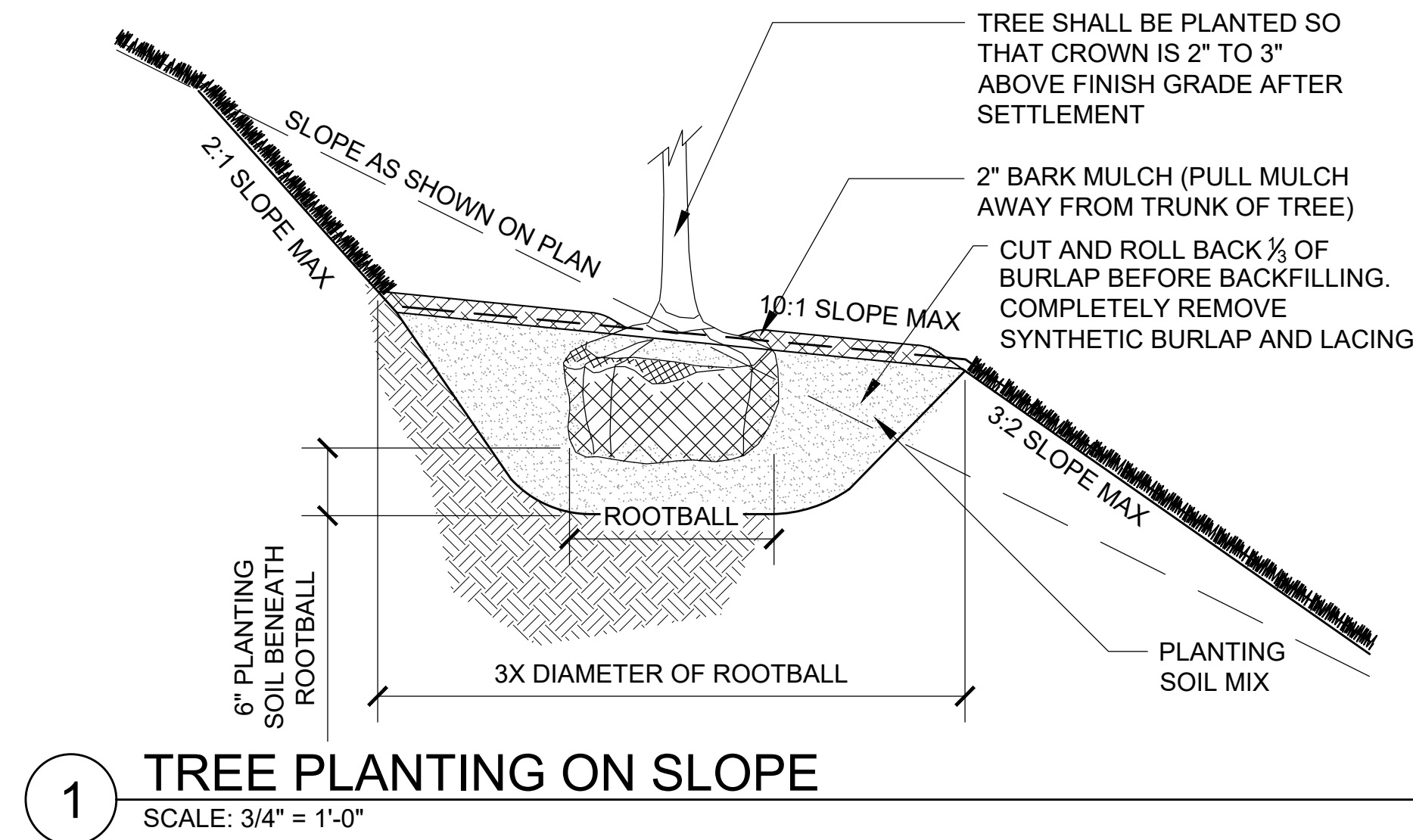
CONTINUED ON SHEET NO.

COPLEY WOLFF DESIGN GROUP

609204\_HD (BORDER SHEET).DWG

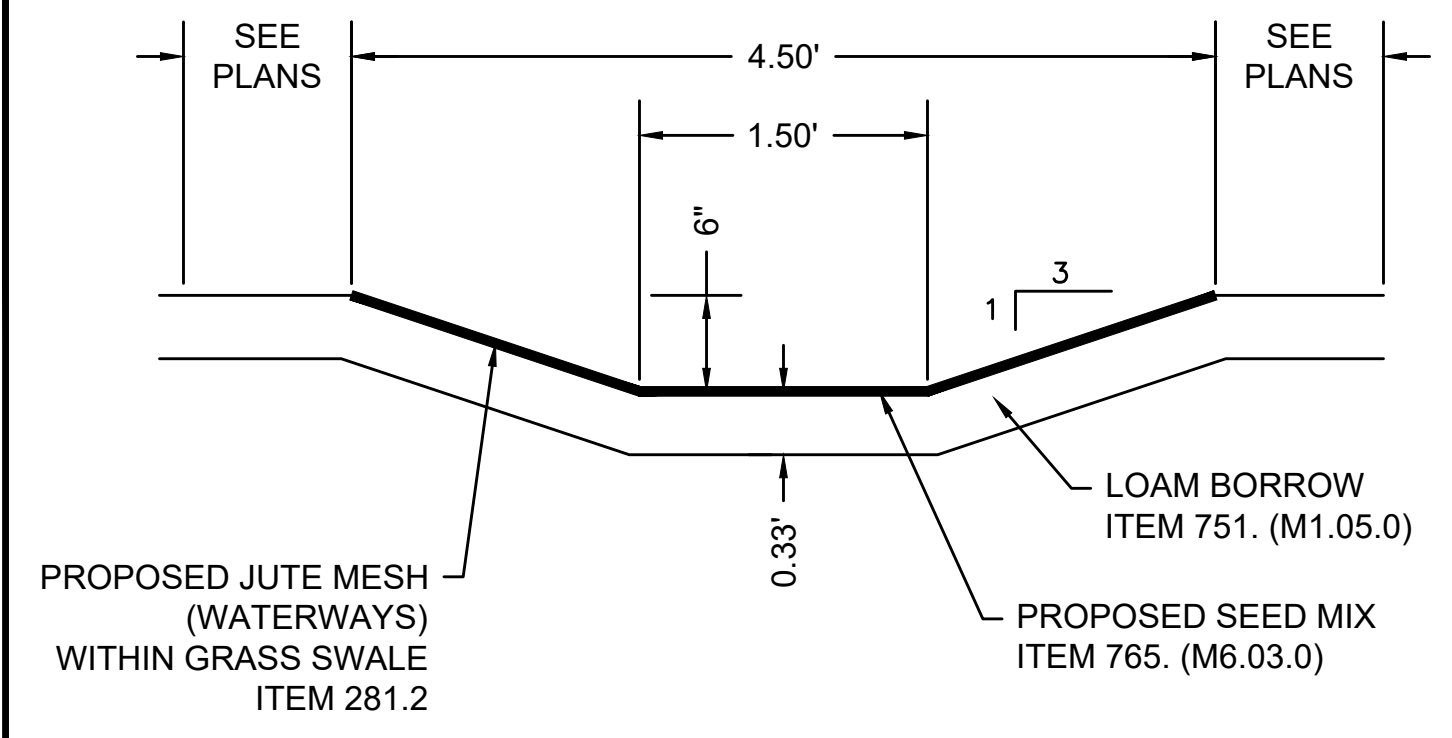
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	76	157
PROJECT FILE NO. 609204			

- NOTES:
1. PLANTING SOIL SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING
  2. DO NOT CUT LEADER
  3. TREE WRAP SHALL NOT BE USED
  4. TREE SHALL BE SET PLUMB
  5. EROSION CONTROL BLANKET TO BE NORTH AMERICAN GREEN ERONET S150 DOUBLE-NET STRAW BLANKET OR EQUAL WITH WOOD STAPLES AT 24" O.C.



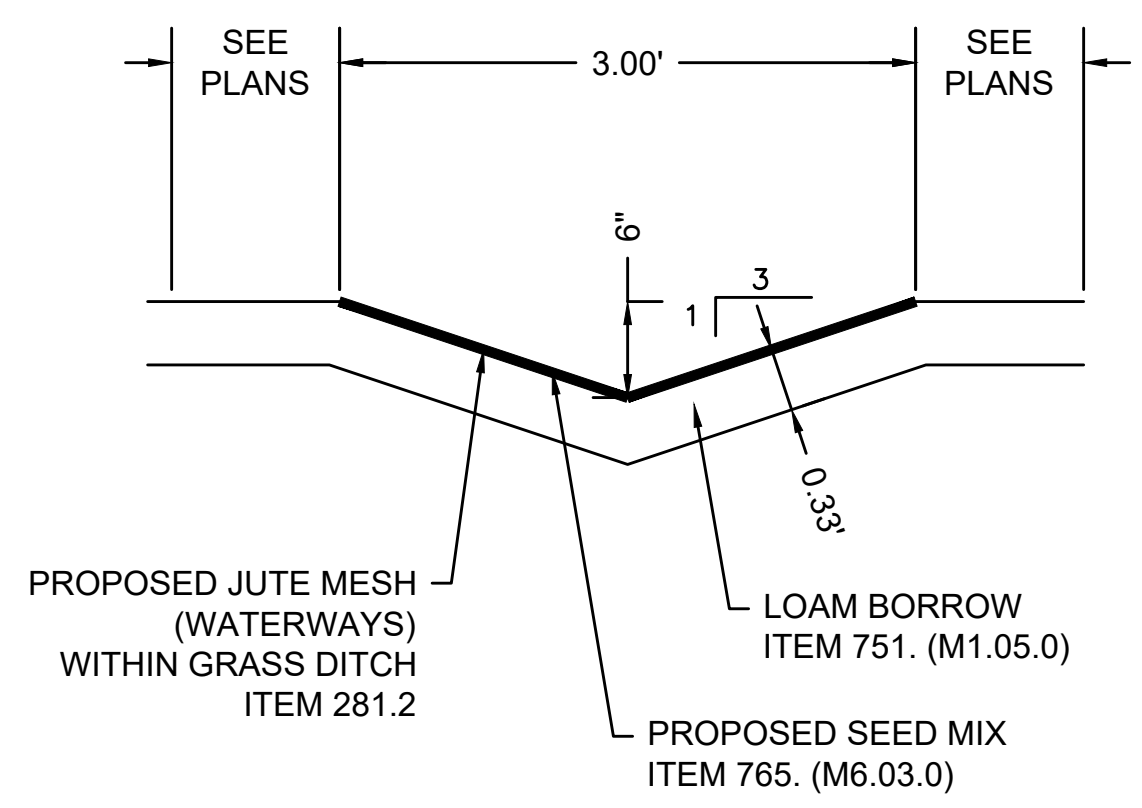
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	77	157
PROJECT FILE NO.		609204	

**CONSTRUCTION DETAILS**



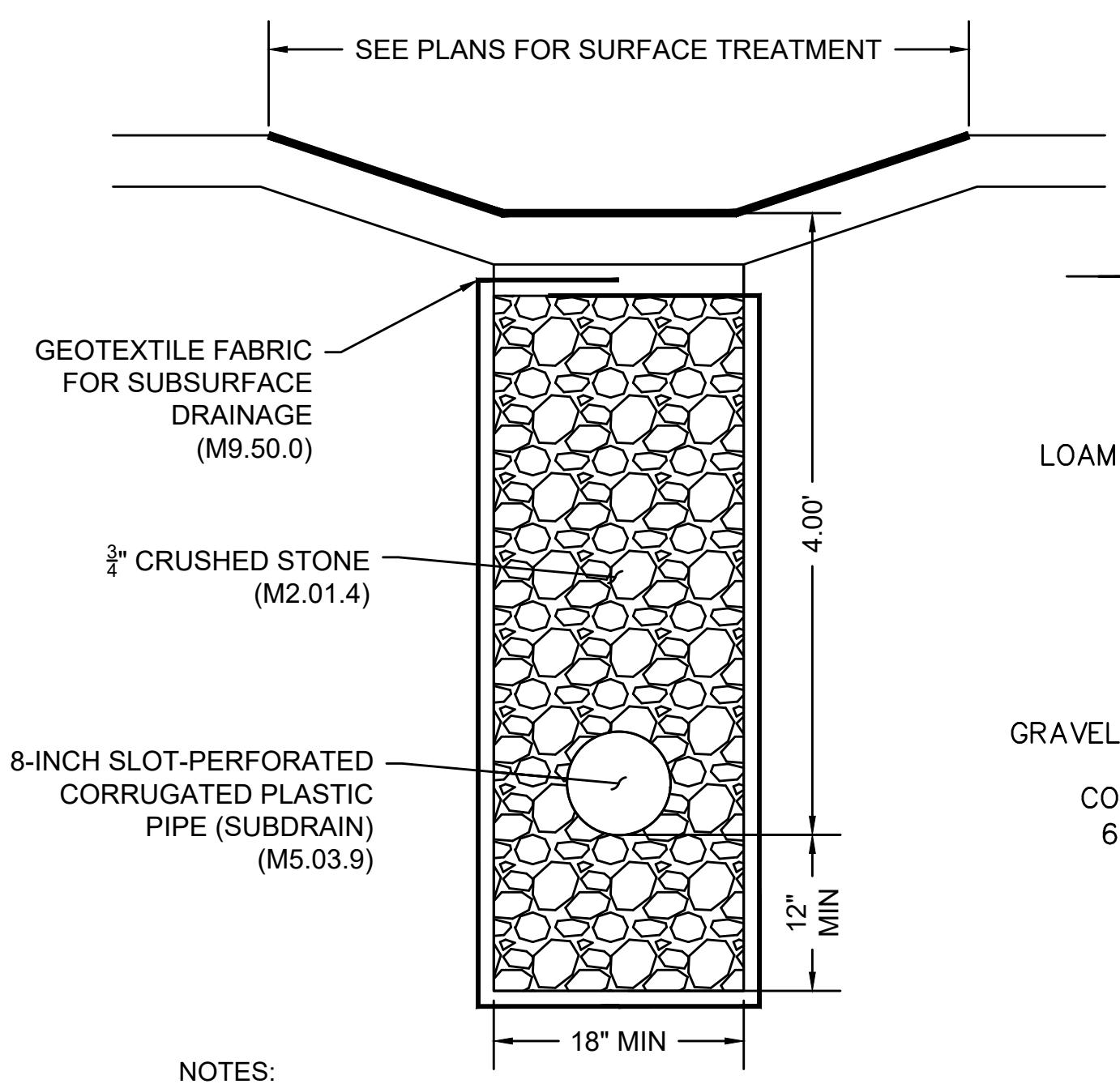
- NOTES:**
1. JUTE MESH (WATERWAYS) SHALL BE INSTALLED IMMEDIATELY AFTER PLACEMENT OF LOAM AND SEED.
  2. EXCAVATION AND GRADING OF THE SWALE SHALL BE MEASURED AND PAID FOR UNDER UNCLASSIFIED EXCAVATION, ITEM 120.1

**GRASS SWALE**  
NOT TO SCALE



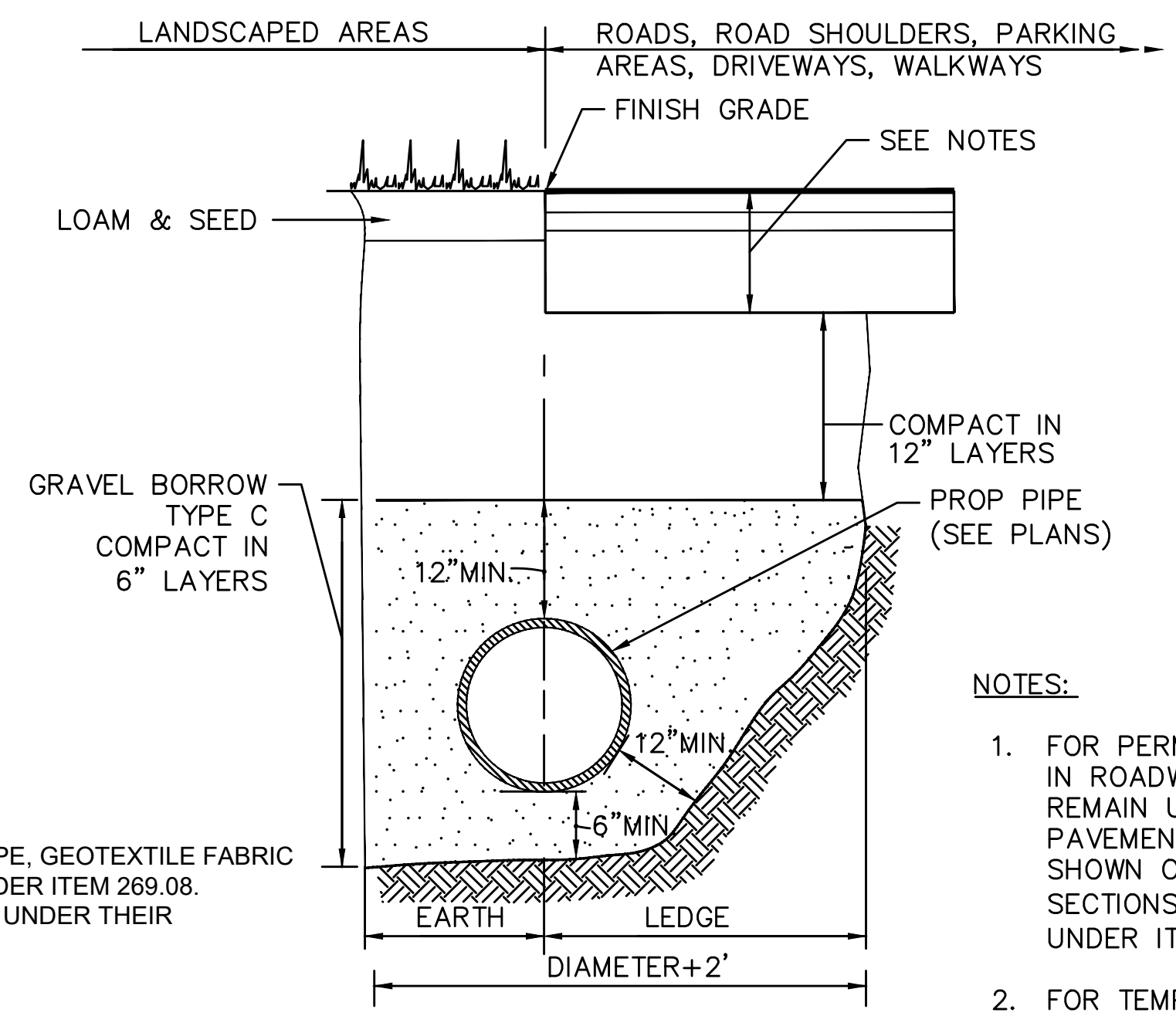
- NOTES:**
1. JUTE MESH (WATERWAYS) SHALL BE INSTALLED IMMEDIATELY AFTER PLACEMENT OF LOAM AND SEED.
  2. EXCAVATION AND GRADING OF THE DITCH SHALL BE MEASURED AND PAID FOR UNDER UNCLASSIFIED EXCAVATION, ITEM 120.1

**GRASS DITCH**  
NOT TO SCALE



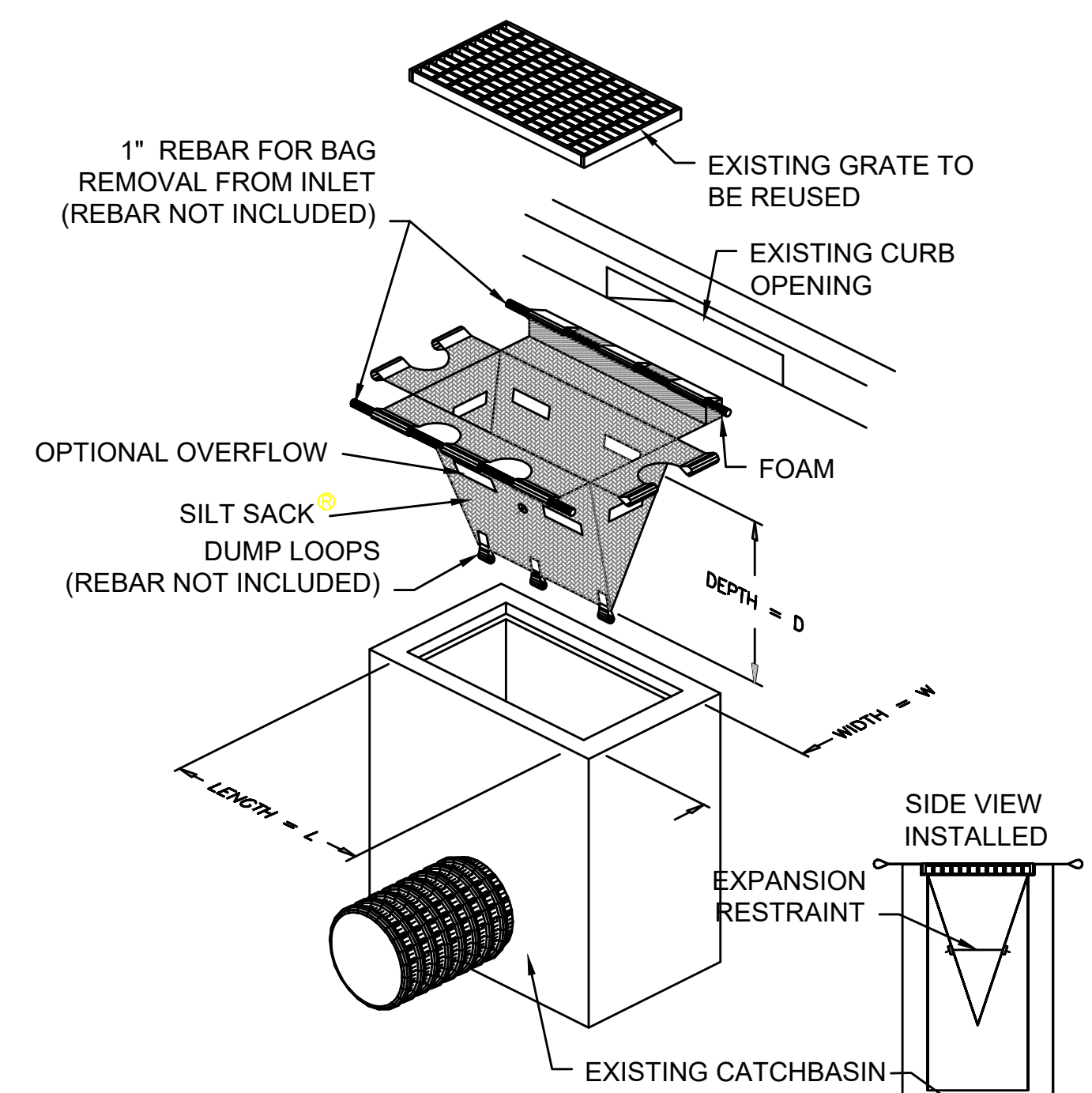
- NOTES:**
1. EXCAVATION, GRADING, CRUSHED STONE, PERFORATED PIPE, GEOTEXTILE FABRIC SHALL BE INCLUDED FOR MEASUREMENTS AND PAYMENT UNDER ITEM 269.08.
  2. SURFACE TREATMENT SHALL BE MEASURED AND PAID FOR UNDER THEIR RESPECTIVE BID ITEMS.

**8-INCH SUB-DRAIN**  
NOT TO SCALE

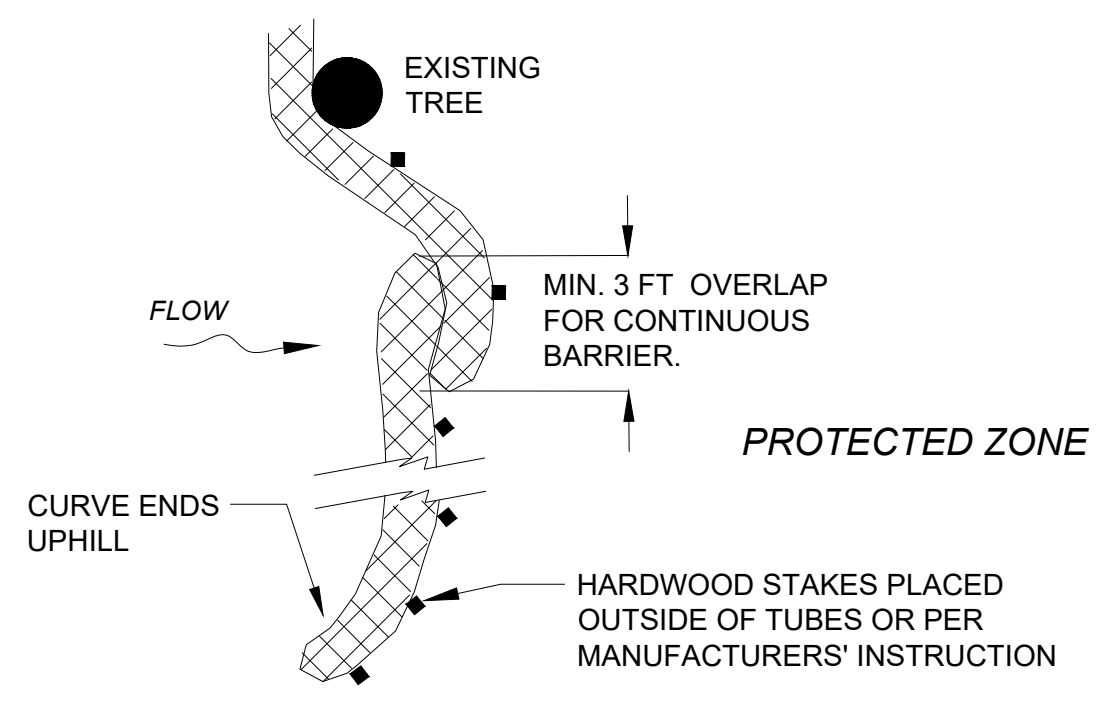


- NOTES:**
1. FOR PERMANENT PATCH IN ROADWAY AREAS TO REMAIN USE FULL DEPTH PAVEMENT MATERIALS SHOWN ON TYPICAL SECTIONS (PAID FOR UNDER ITEM 451)
  2. FOR TEMPORARY PATCH USE 3 INCHES HMA BINDER MIX (PAID FOR UNDER ITEM 472)

**STANDARD TRENCH DETAIL**

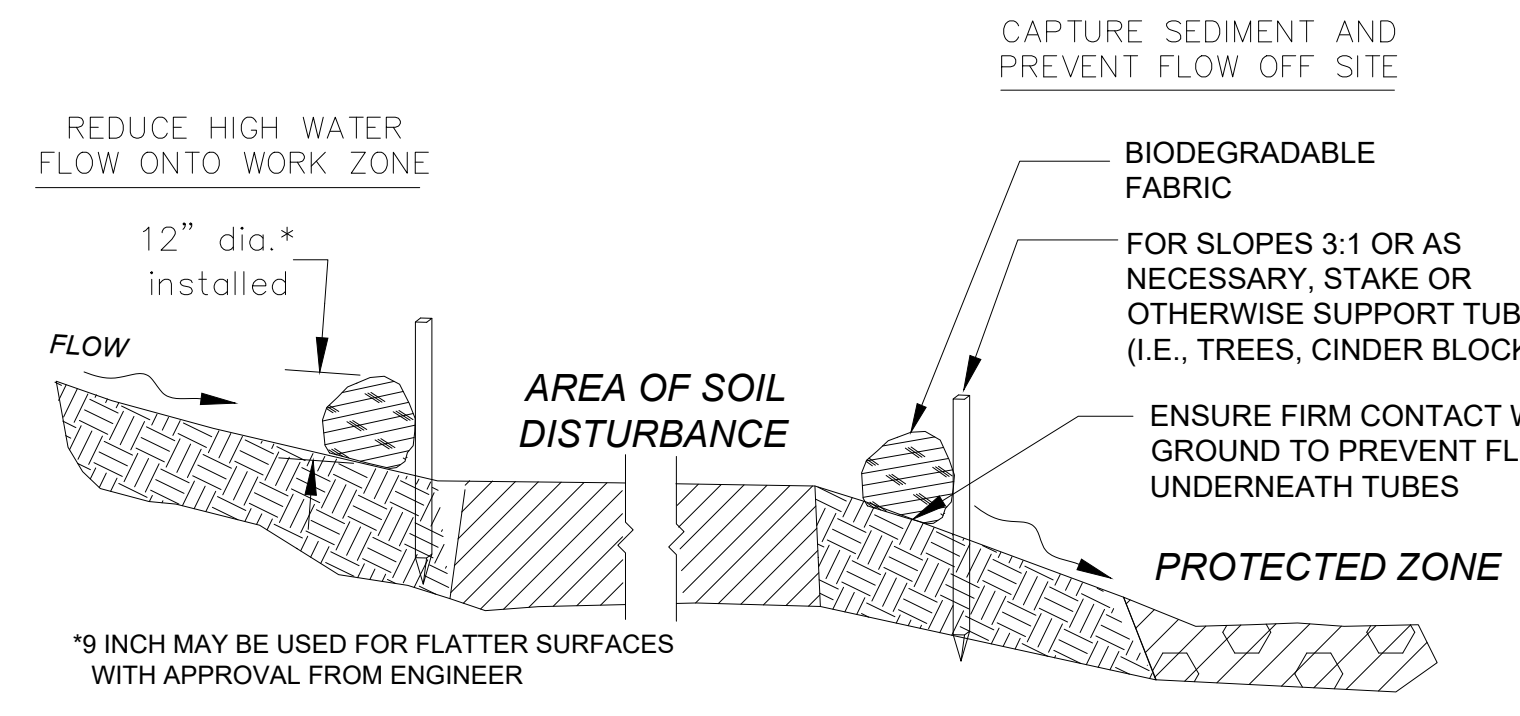


**CATCH BASIN W/ SILTSACK  
INLET PROTECTION**  
NOT TO SCALE



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**

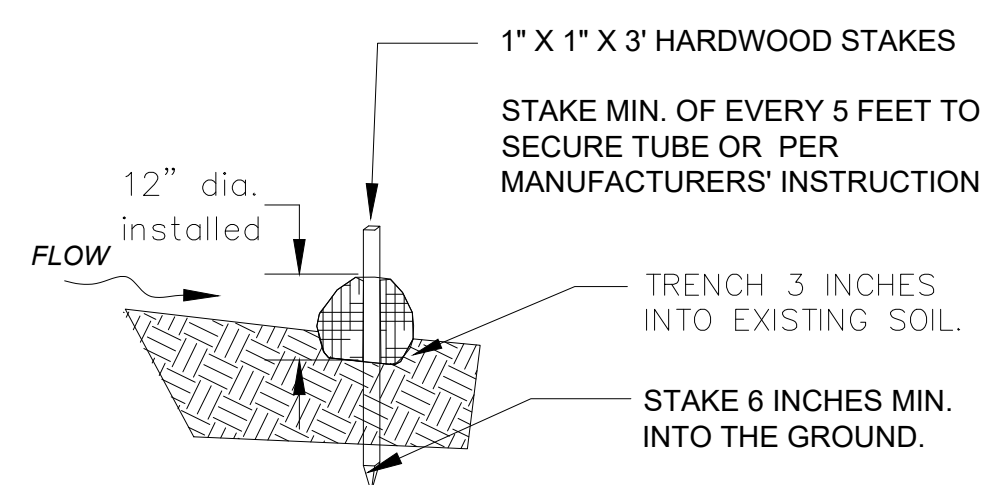


\*9 INCH MAY BE USED FOR FLATTER SURFACES WITH APPROVAL FROM ENGINEER

**SECTION**

**SEDIMENT BARRIER - COMPOST FILTER TUBE**  
NOT TO SCALE

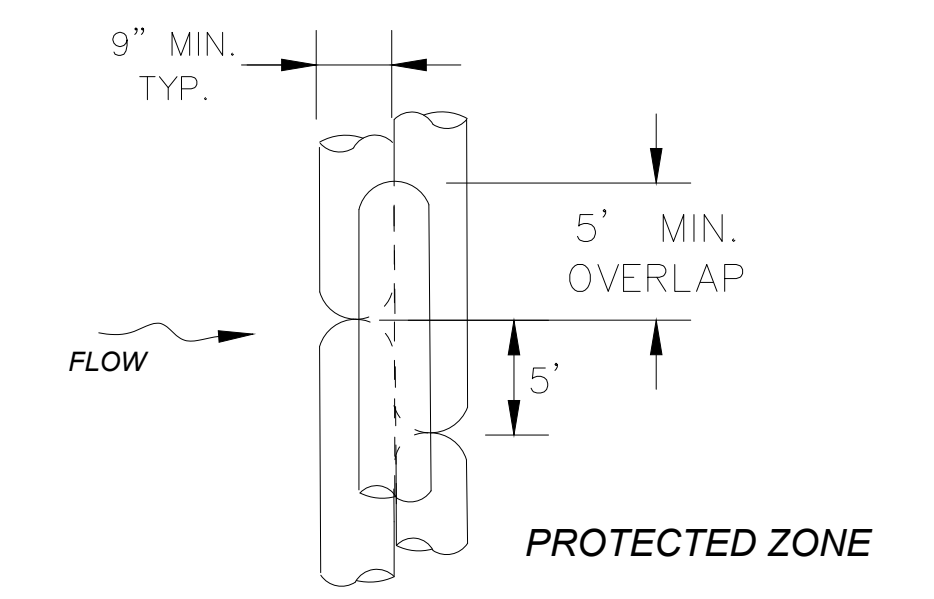
FOR USE ONLY ON SLOPES UP TO 5% AND WITH APPROVAL OF THE ENGINEER.  
NOT TO BE USED FOR WETLAND MITIGATION.



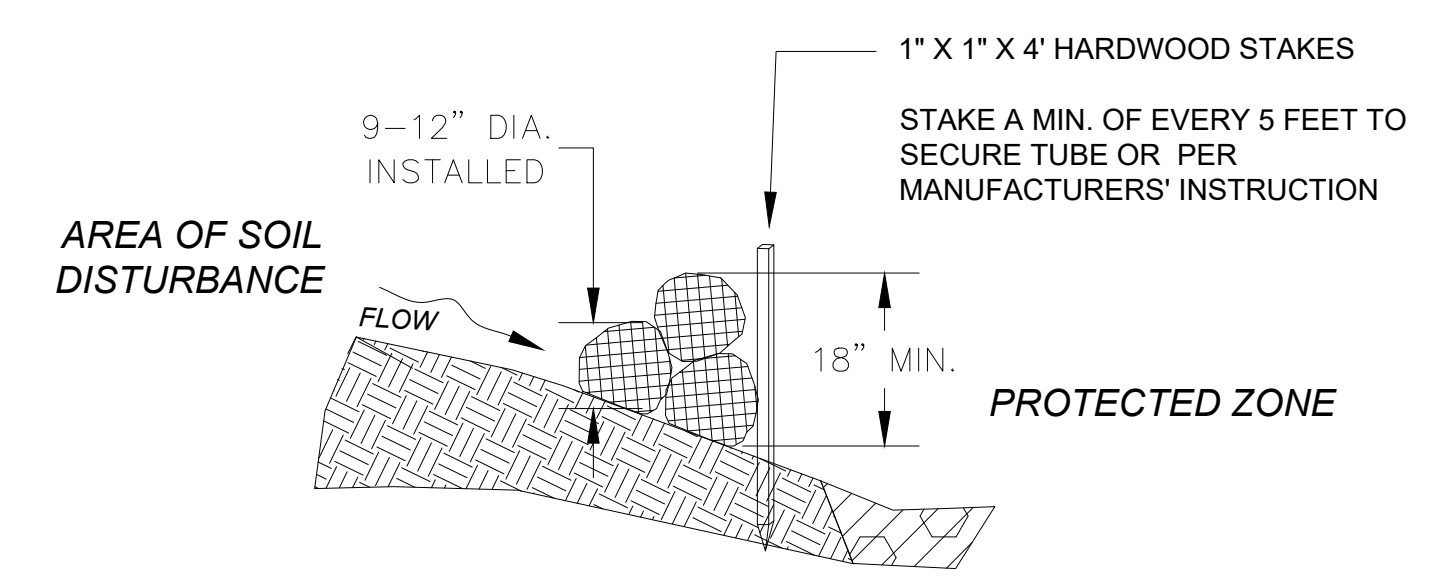
**SECTION**

**12 INCH STRAW WATTLE**  
NOT TO SCALE

WHERE SPECIFIED ON CONSTRUCTION PLANS OR AS REQUIRED

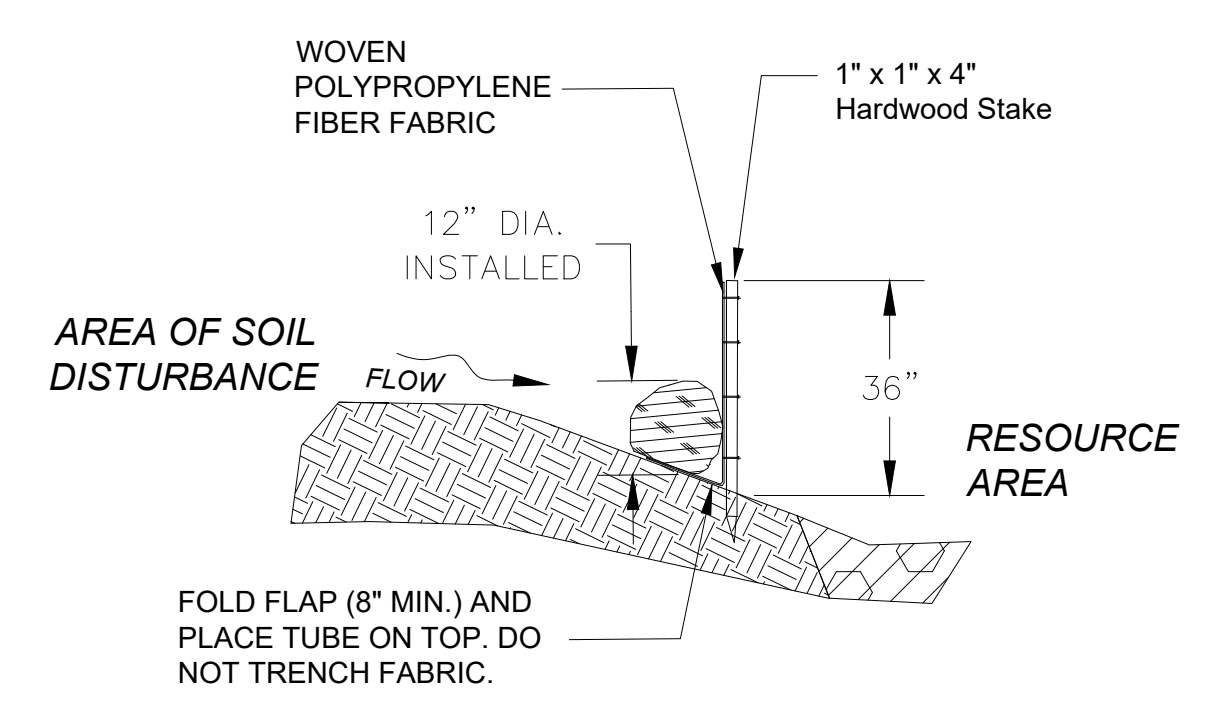


**PLAN VIEW**



**SECTION**

**COMPOST FILTER TUBES STACKED**  
NOT TO SCALE

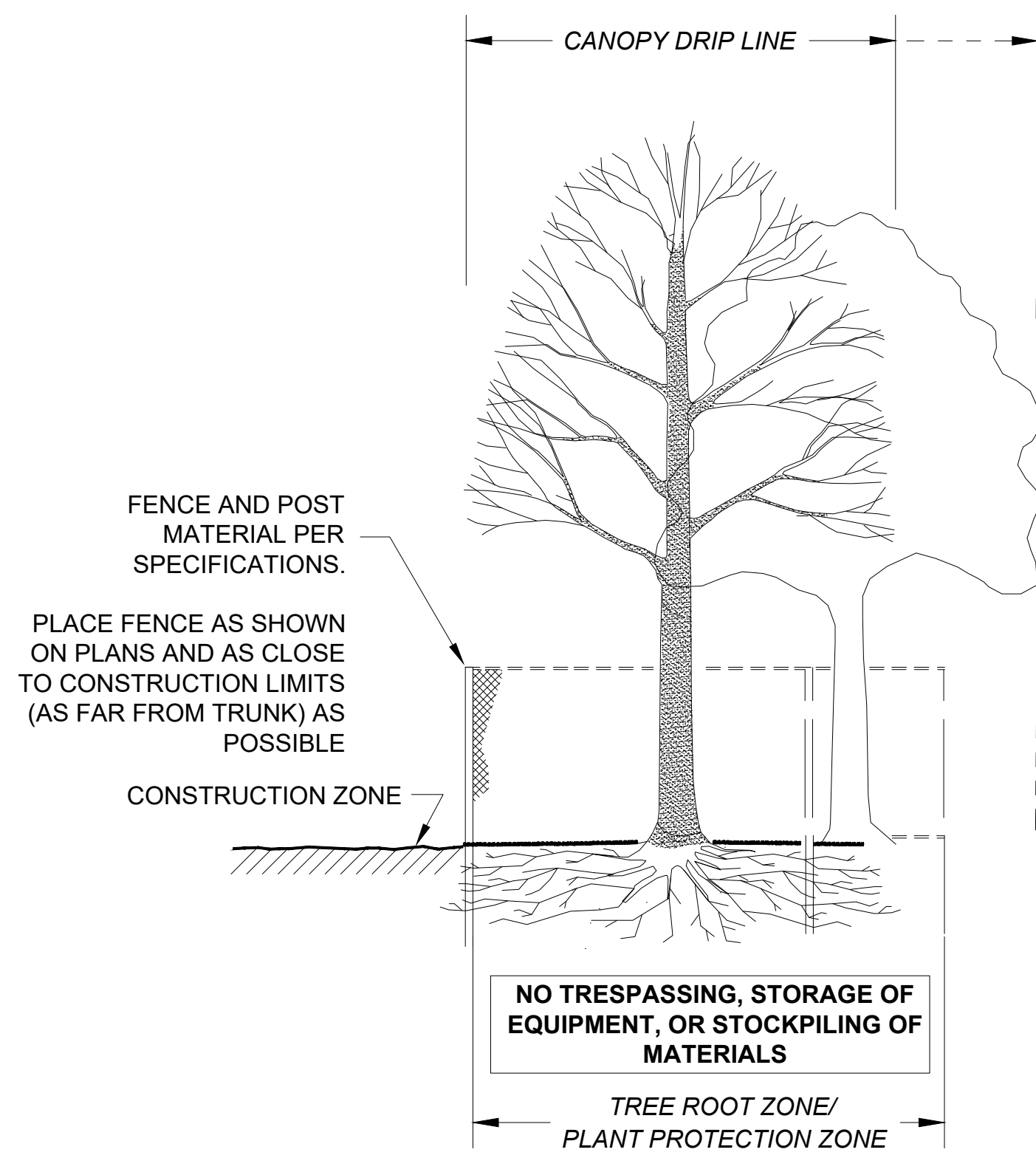


**SECTION**

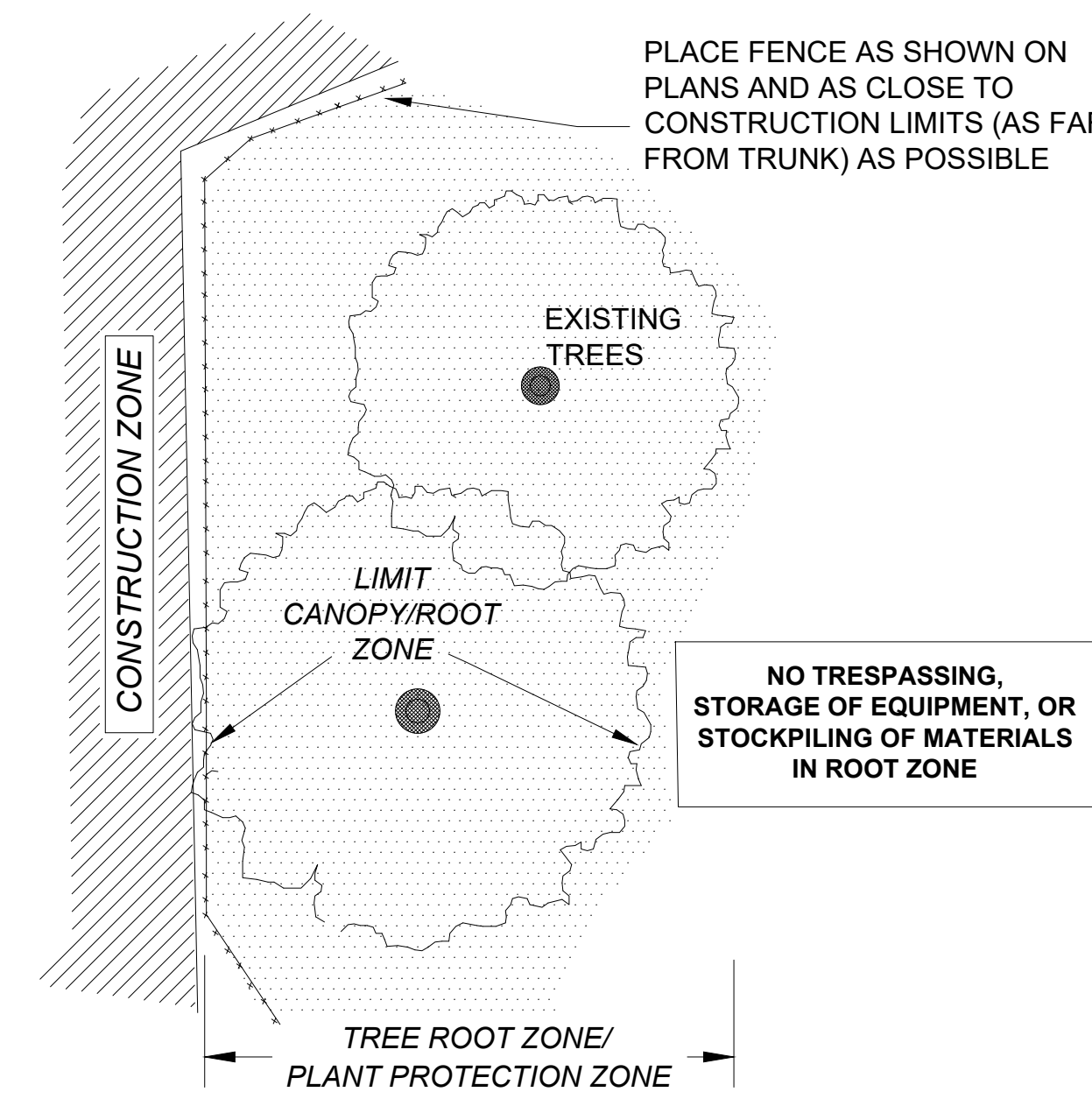
**COMPOST FILTER TUBE & SILT FENCE**  
NOT TO SCALE

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	78	157
PROJECT FILE NO.		609204	

CONSTRUCTION DETAILS



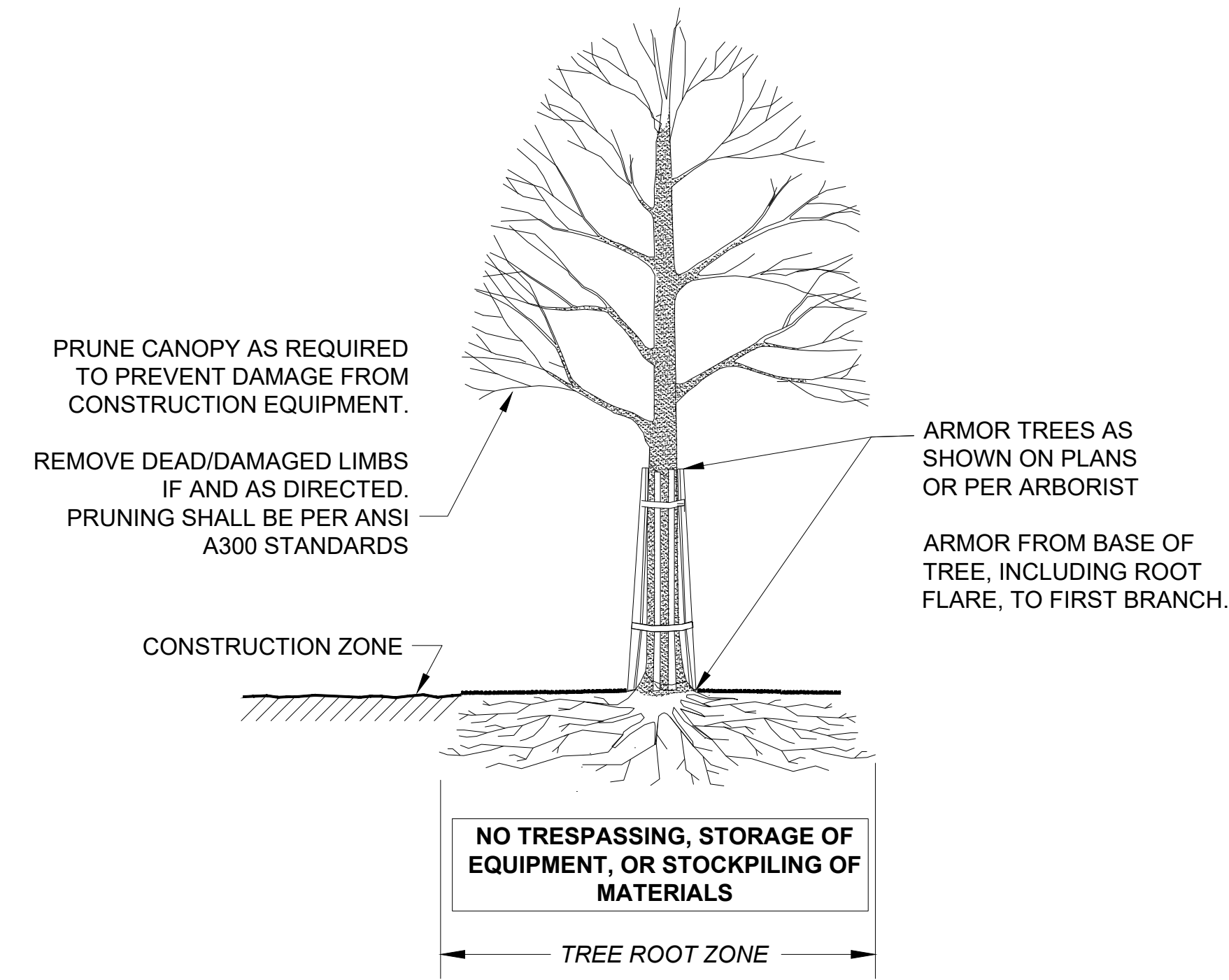
SECTION - FENCE PROTECTION OF ROOT ZONE



PLAN VIEW - FENCE PROTECTION OF ROOT ZONE

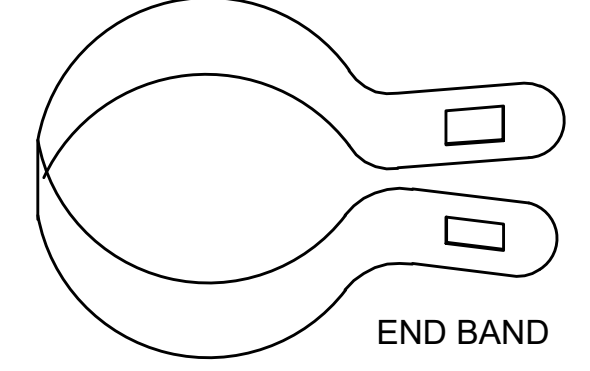
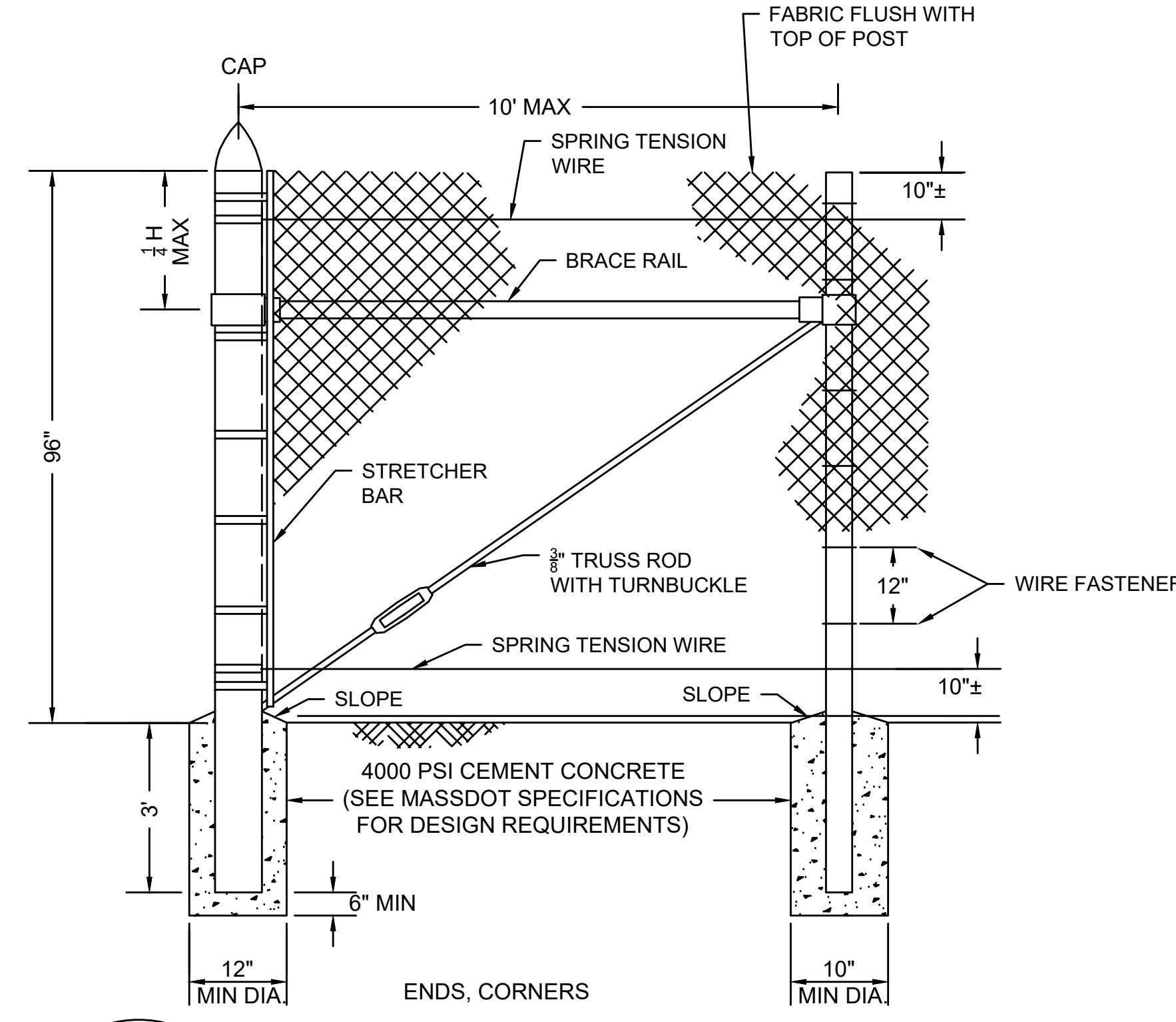
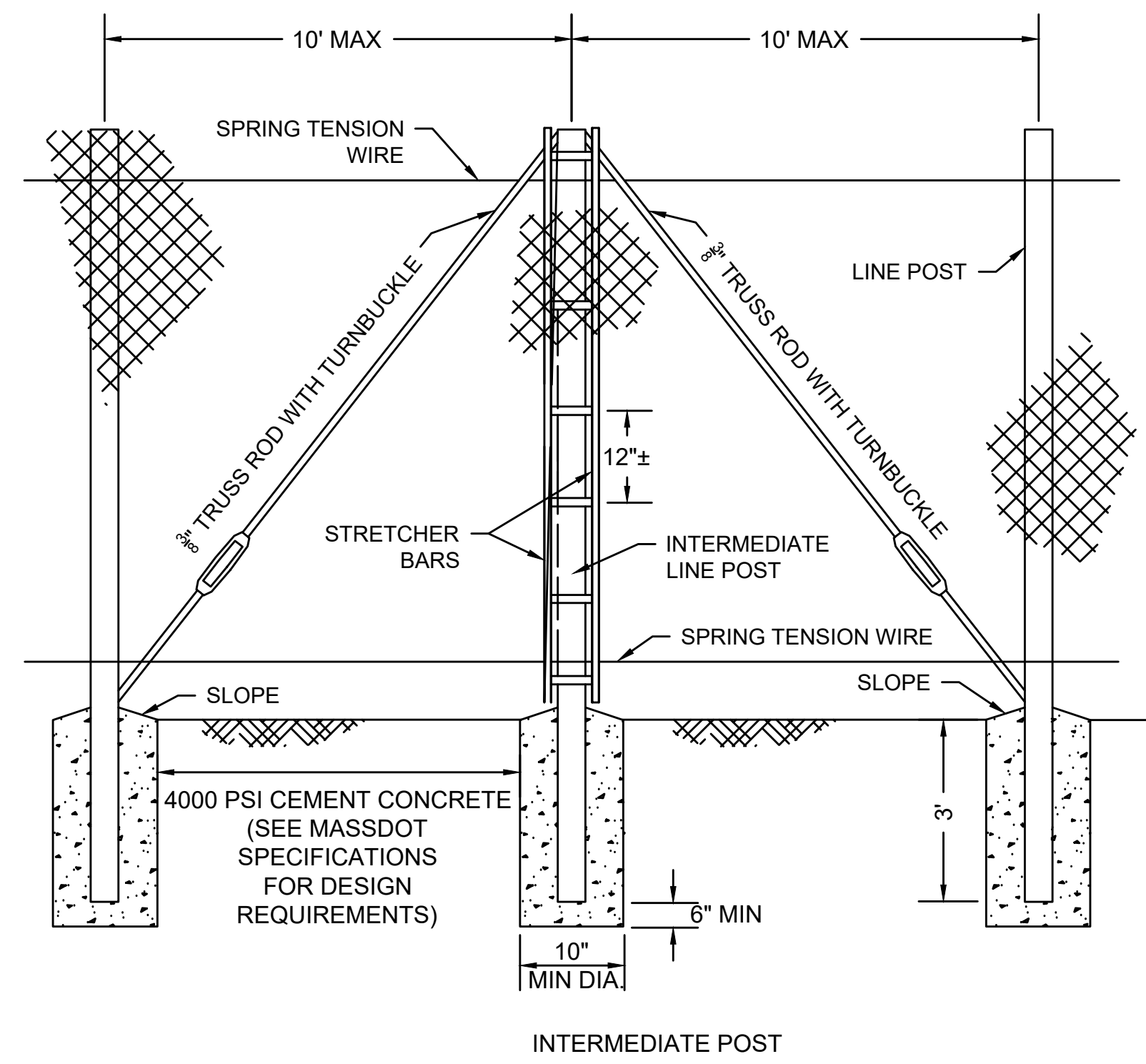
TREE PROTECTION - ROOT ZONE

NOT TO SCALE



SECTION - TRUNK ARMORING & PRUNING

TREE PROTECTION - TRUNK



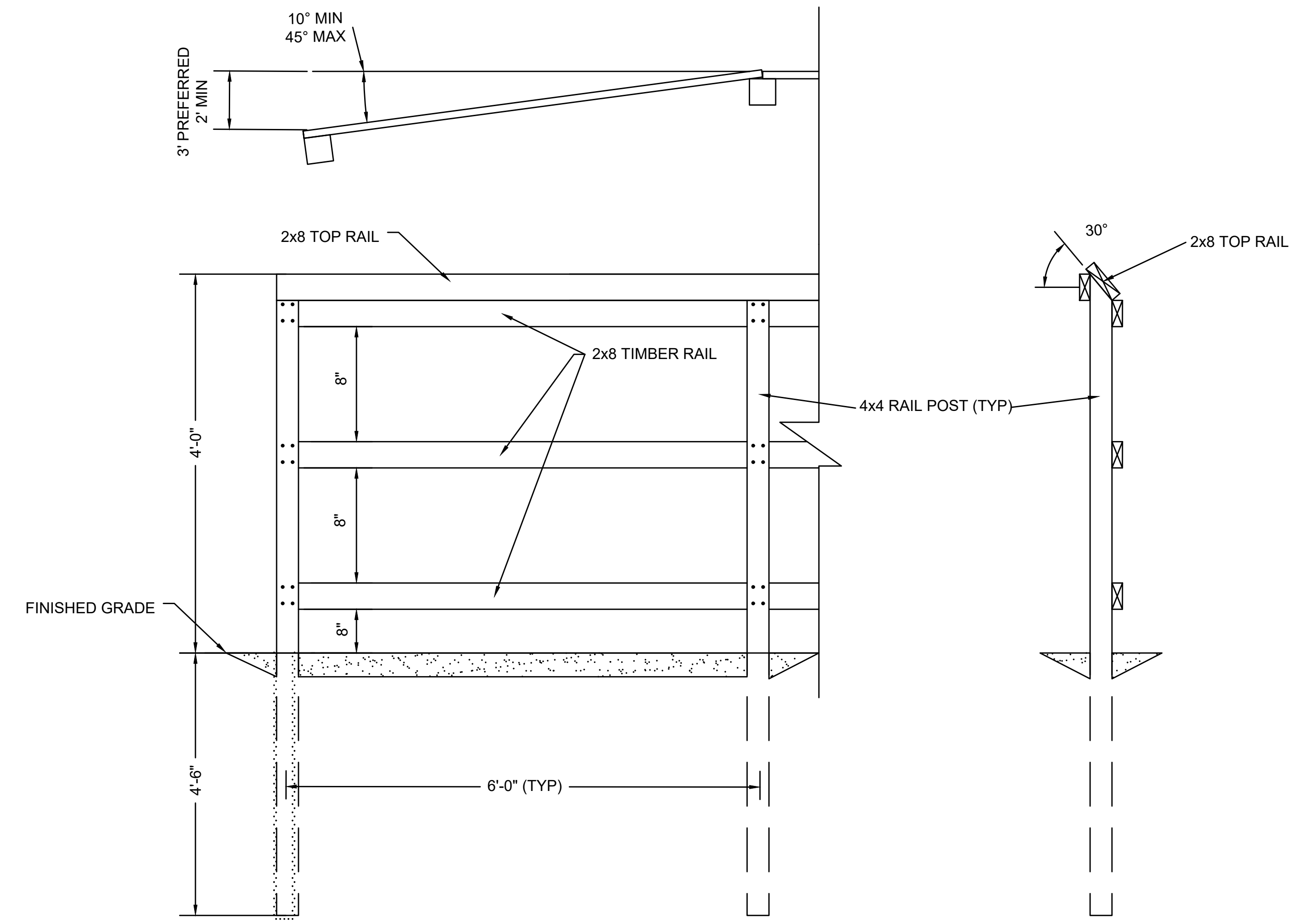
SPRING TENSION WIRE  
MINIMUM OF (5) TURNS AROUND THE  
SPRING TENSION WIRE TO END INSTLLATION.  
ALL BANDS SHALL BE ROUND ON ROUND POSTS.

**NOTES:**

1. FABRIC FOR FENCES 4' OR LESS IN HEIGHT: TOP SELVAGE TO HAVE KNUCKLED FINISH. BOTTOM SELVAGE TO HAVE TWISTED AND BARBED FINISH UNLESS OTHERWISE NOTED. FABRIC FOR FENCES 5' OR OVER IN HEIGHT: BOTH TOP AND BOTTOM SELVAGE TO HAVE TWISTED AND BARBED FINISH UNLESS OTHERWISE NOTED.
2. GRADE OF FENCE TO BE PARALLEL WITH THE GRADE OF SIDEWALKS, CURBING, GROUND OR TOP OF WALL.
3. INTERMEDIATE POST INTERVALS NOT TO EXCEED 500 FEET.
4. SPACING OF LINE POST ON CURVES, SEE DRAWINGS E 404.1.0
5. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHODS, SEE STANDARD SPECIFICATIONS.
6. SPRING TENSION WIRE TO BE FASTENED TO FABRIC WITH 11 GAUAGE HOG RINGS AT 1' INTERVALS.
7. SPRING TENSION WIRE TO BE FASTENED TO LINE POSTS WITH CLIPS.
8. LINE POSTS TO BE DRIVEN EXCEPT WHERE NOTED ABOVE.

**CHAIN LINK FENCE (SPRING TENSION WIRE)**

NOT TO SCALE



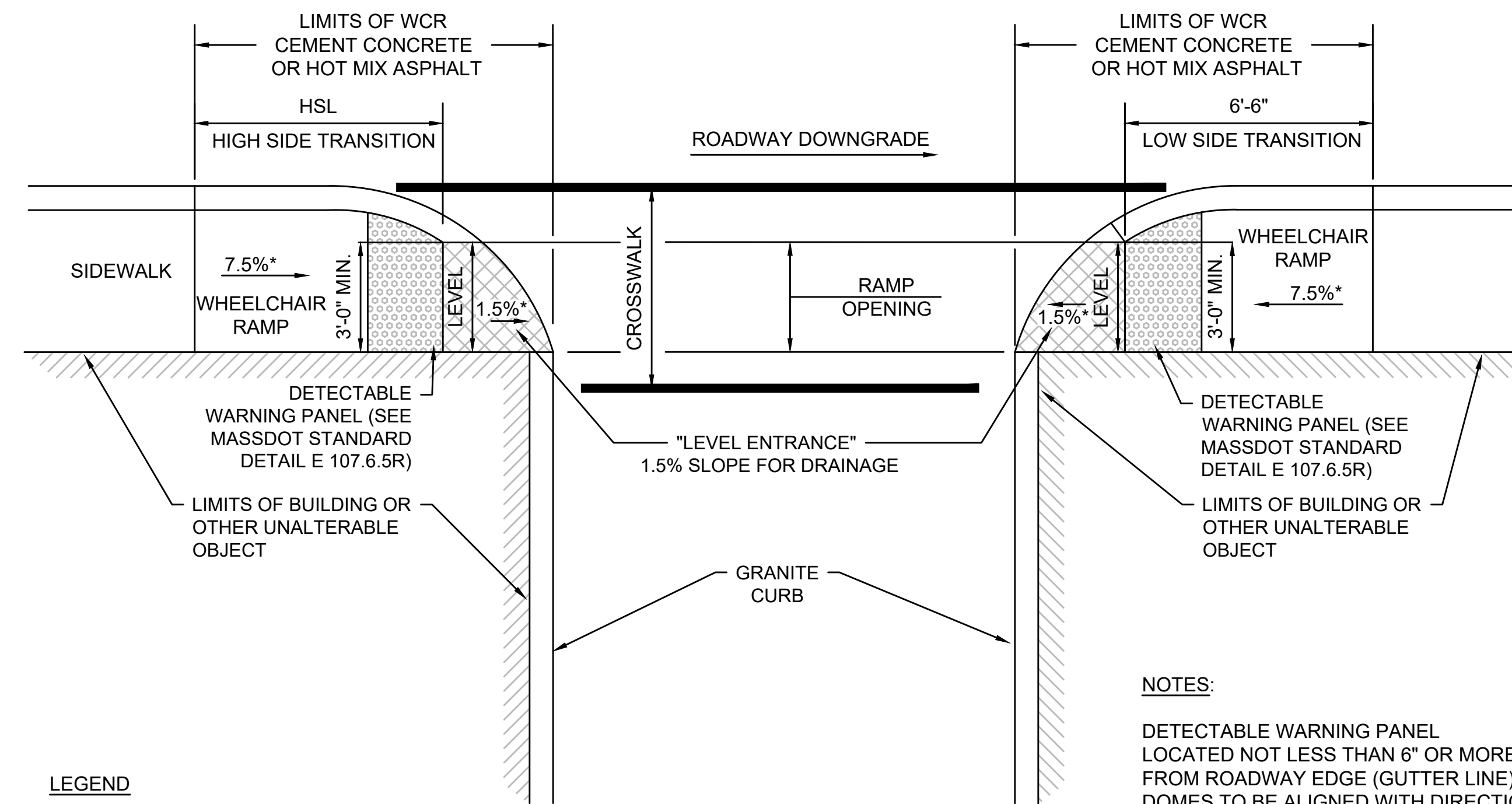
**TIMBER WOOD RAIL**

NOT TO SCALE

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	80	157
PROJECT FILE NO. 609204			

**CONSTRUCTION DETAILS**



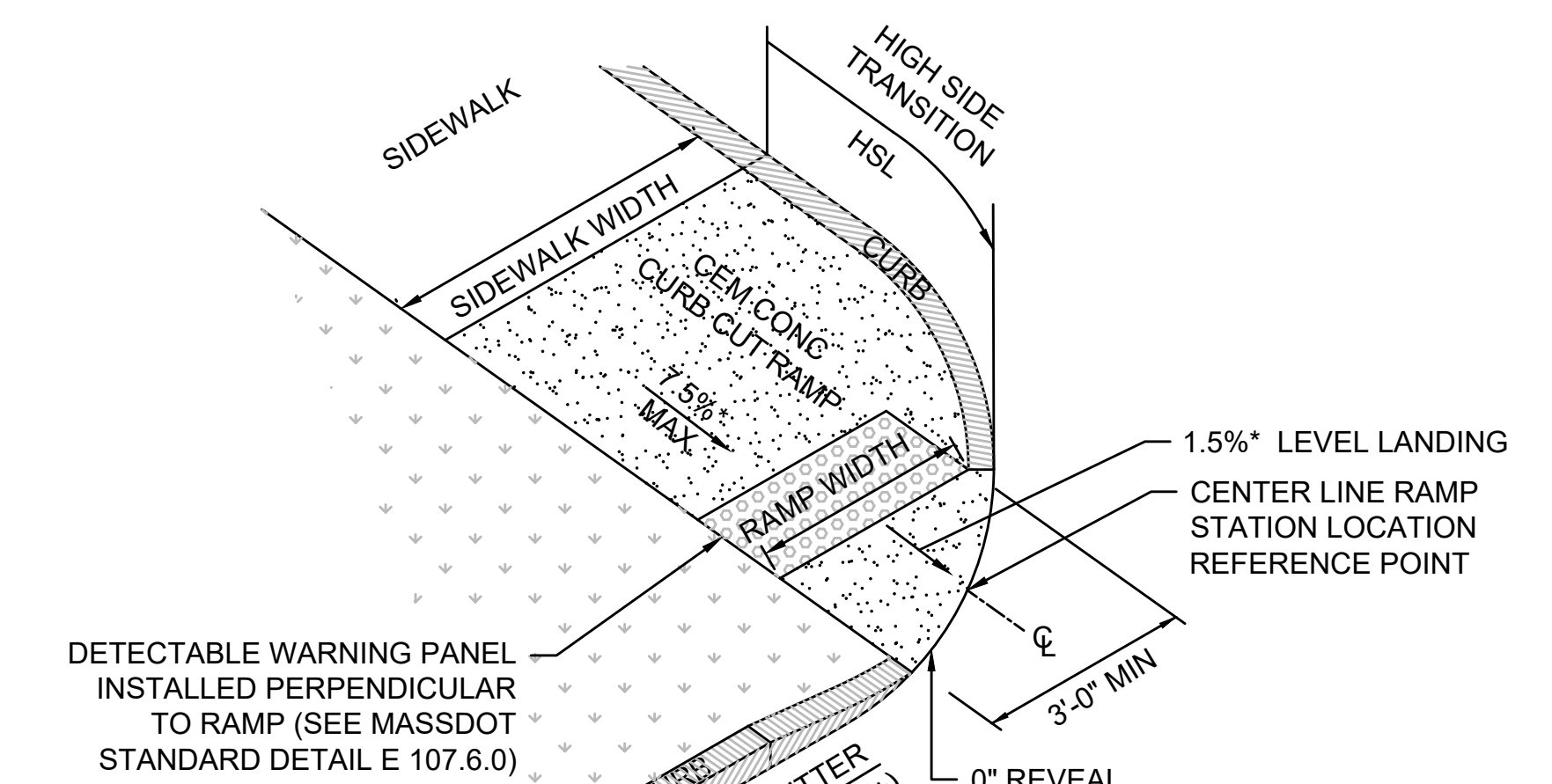
**LEGEND**

- HSL = HIGH SIDE TRANSITION LENGTH (SEE MASSDOT STANDARD DETAIL E 107.9.0R)
- \* = TOLERANCE FOR CONSTRUCTION ±0.5%

**NOTES:**

- DETECTABLE WARNING PANEL LOCATED NOT LESS THAN 6" OR MORE THAN 24" FROM ROADWAY EDGE (GUTTER LINE). TRUNCATED DOMES TO BE ALIGNED WITH DIRECTION OF TRAVEL.
- FOR DETAILS OF TRUNCATED DOMES SEE MASSDOT STANDARD DETAIL E 107.6.5R.
- ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS.

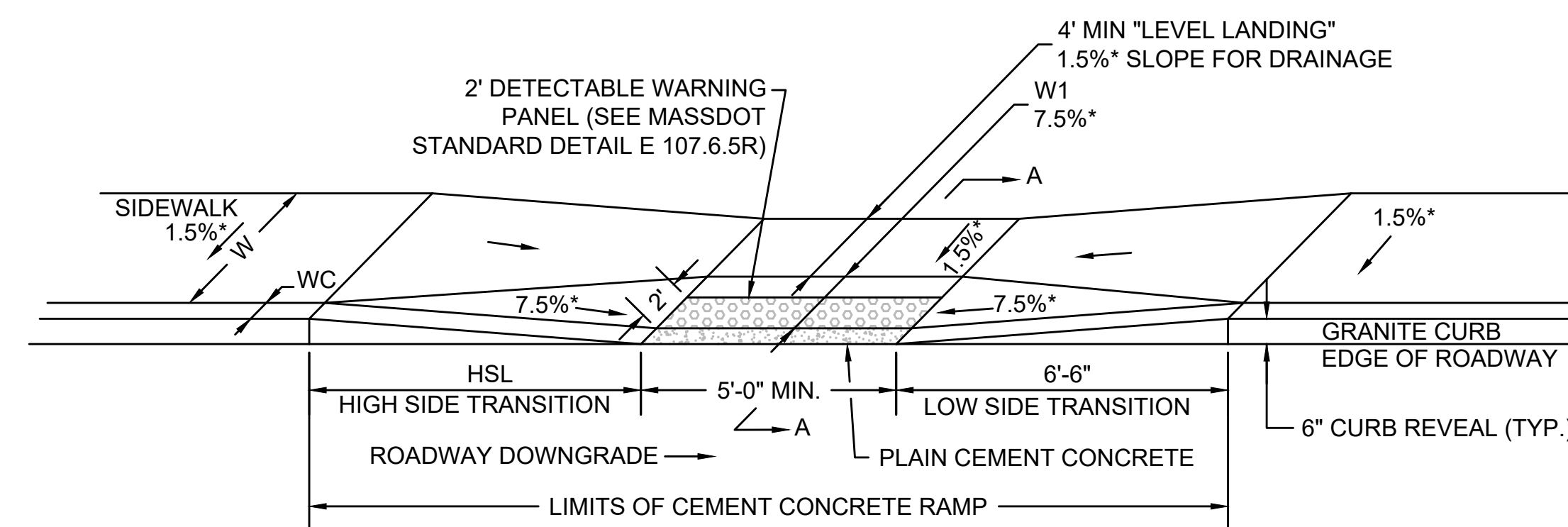
**WHEELCHAIR RAMP FOR ONE CONTINUOUS DIRECTION OF PEDESTRIAN TRAVEL**  
NOT TO SCALE



**LEGEND**

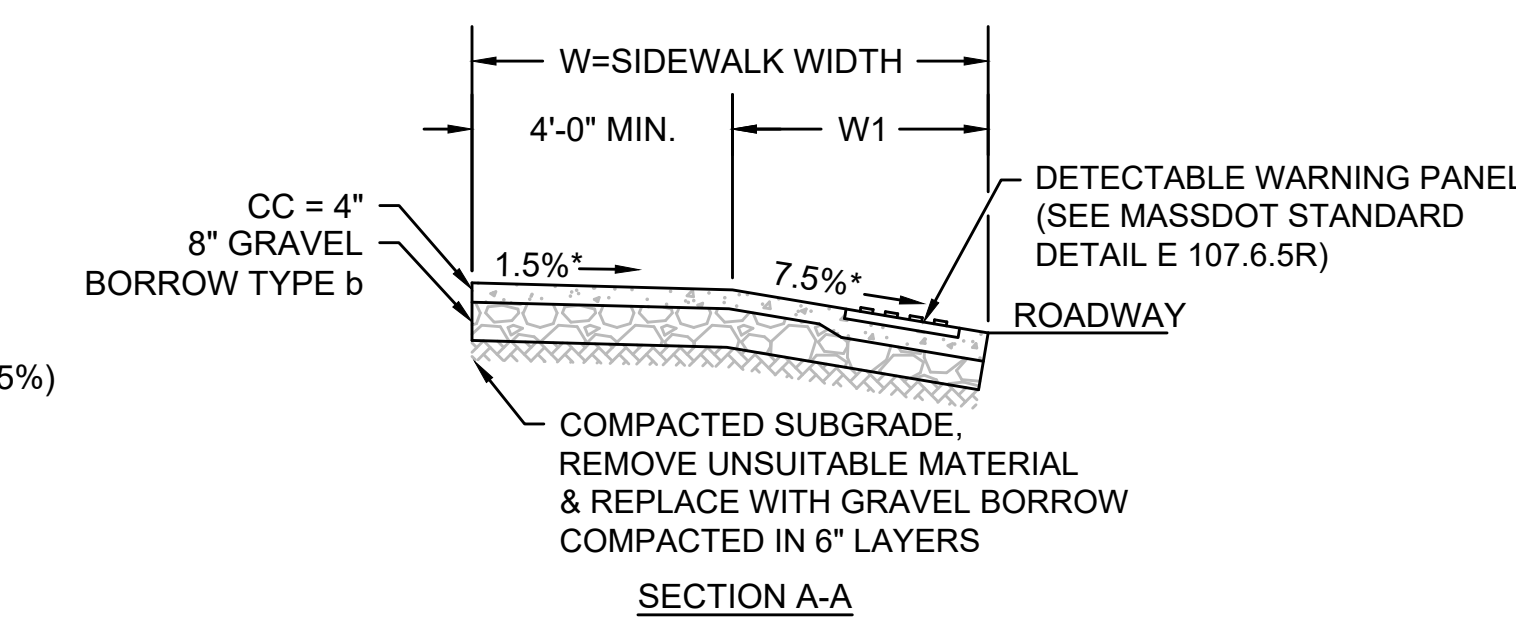
- HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
- \* = TOLERANCE FOR CONSTRUCTION (± 0.5%)

**WHEELCHAIR RAMP FOR ONE DIRECTION OF TRAVEL**  
NOT TO SCALE



**LEGEND**

- CC = CEMENT CONCRETE
- HSL = HIGH SIDE TRANSITION LENGTH (SEE MASSDOT DETAIL E 107.9.0R)
- W = SIDEWALK WIDTH (USABLE WIDTH)
- W1 = PERPENDICULAR RAMP LENGTH (W-4')
- Wc = CURB WIDTH (VARIES 0"-6")
- \* = TOLERANCE FOR CONSTRUCTION (±0.5%)



**WHEELCHAIR RAMP LESS THAN 12'-4" SIDEWALK**  
NOT TO SCALE

WHEELCHAIR RAMP DATA - LESS THAN 12'4" SIDEWALK									
WHEEL-CHAIR NUMBER	STREET NAME #	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITION LENGTH		
							LEFT SIDE	RIGHT SIDE	

- WHEELCHAIR RAMP DATA TABLE WILL BE FILLED OUT AT 75% SUBMISSION

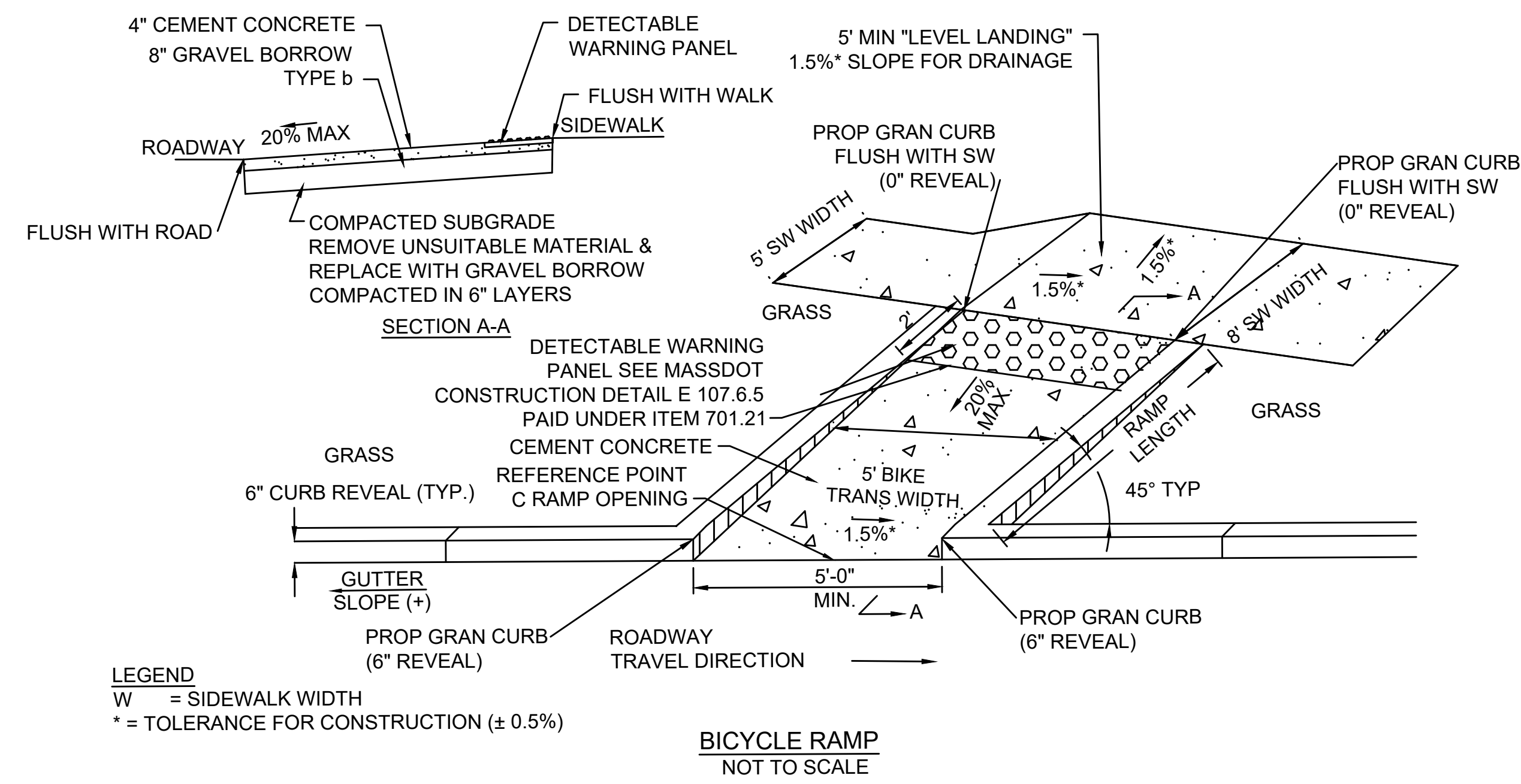
WHEELCHAIR RAMP DATA - ONE DIRECTION OF TRAVEL									
WHEEL-CHAIR NUMBER	STREET NAME #	STATION	OFFSET	RAMP WIDTH	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	CURB TRANSITION LENGTH		
							LEFT SIDE	RIGHT SIDE	

- WHEELCHAIR RAMP DATA TABLE WILL BE FILLED OUT AT 75% SUBMISSION



STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	81	157
PROJECT FILE NO.		609204	

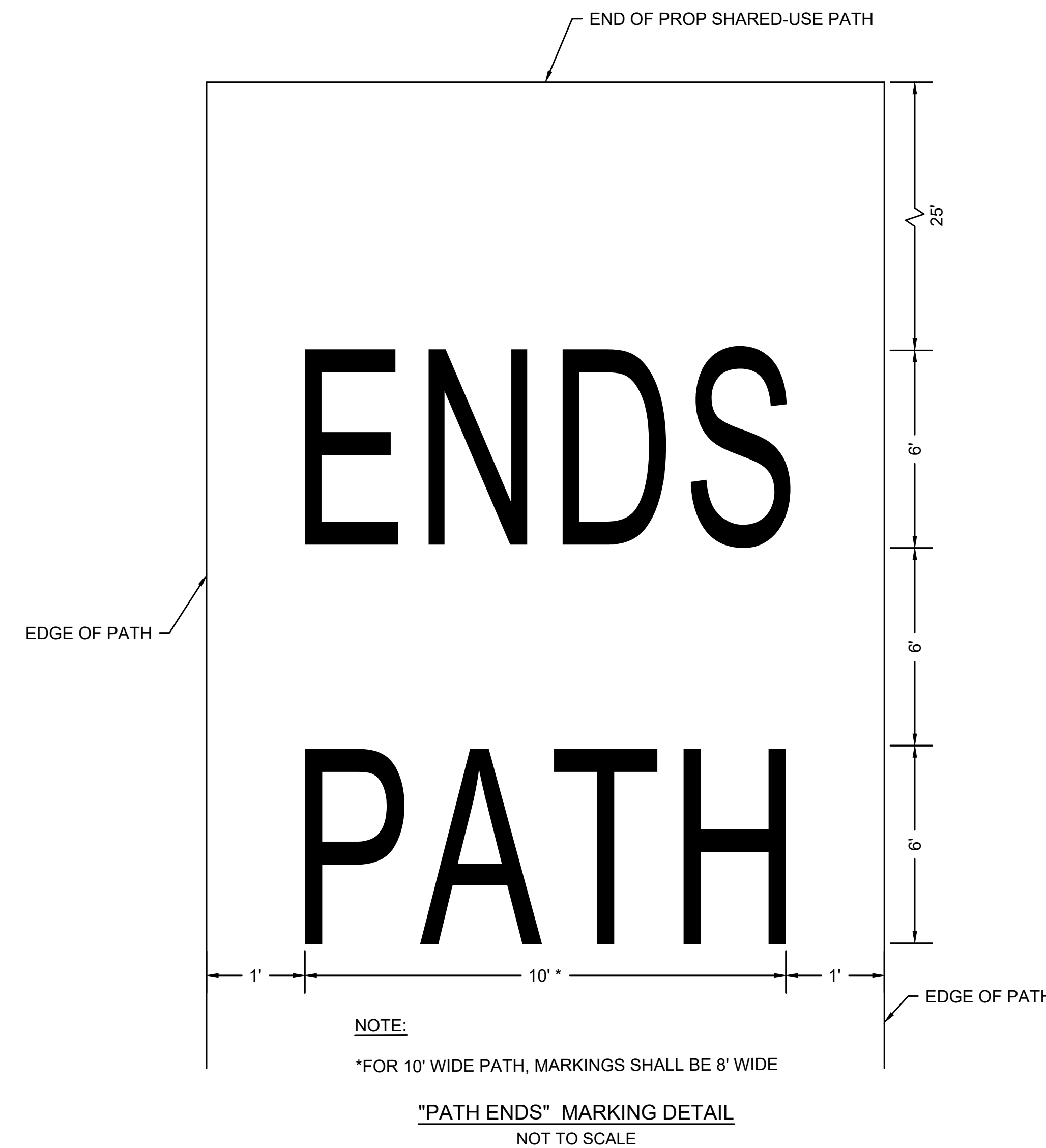
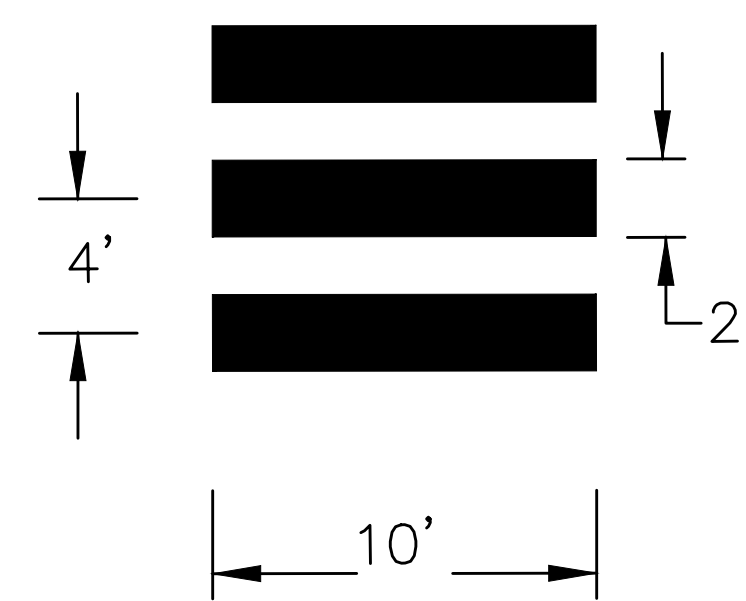
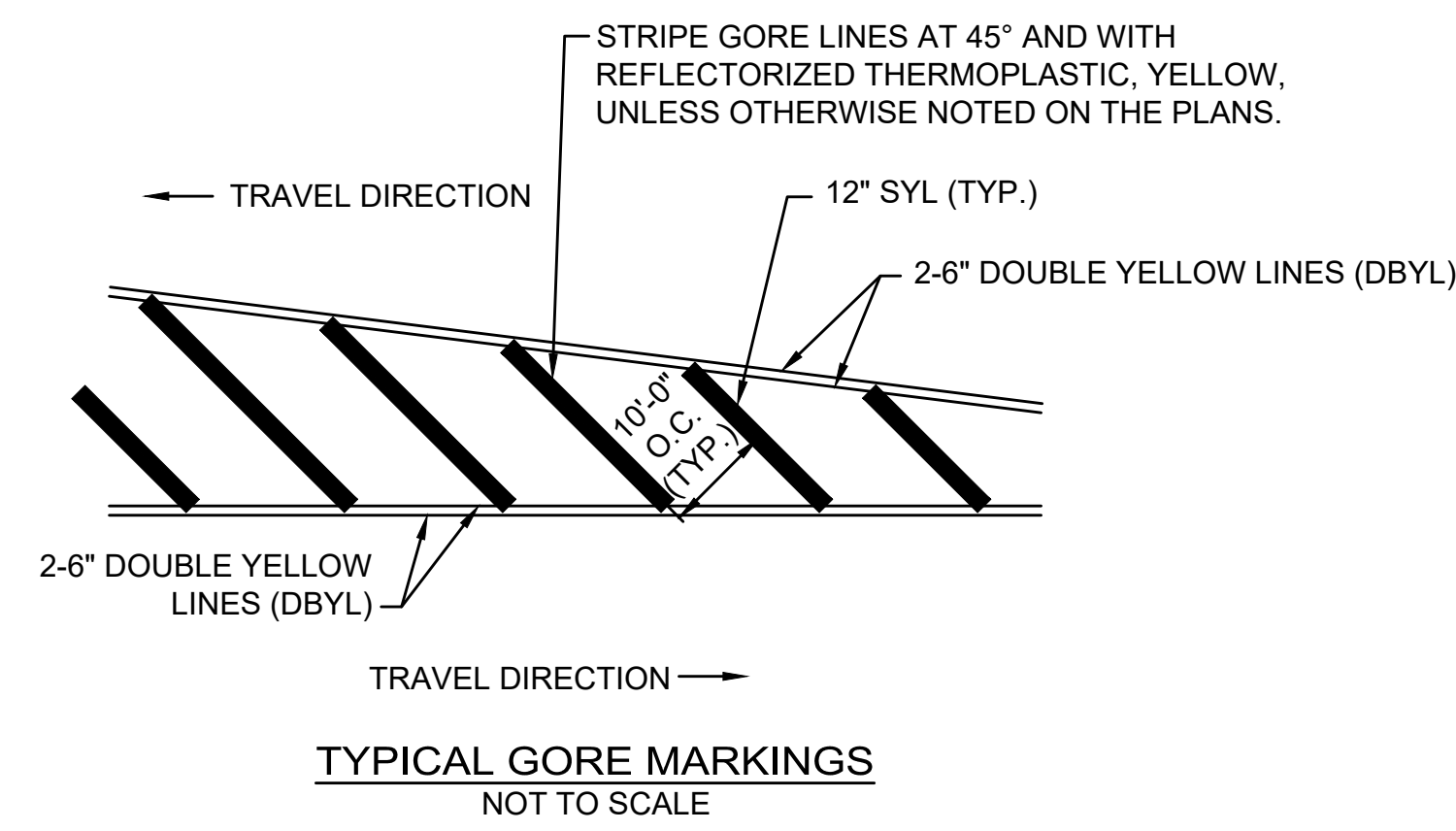
CONSTRUCTION DETAILS



BIKE RAMP CHART

BIKE RAMP NUMBER	STREET NAME †	STATION	OFFSET	RAMP OPENING WIDTH	RAMP LENGTH

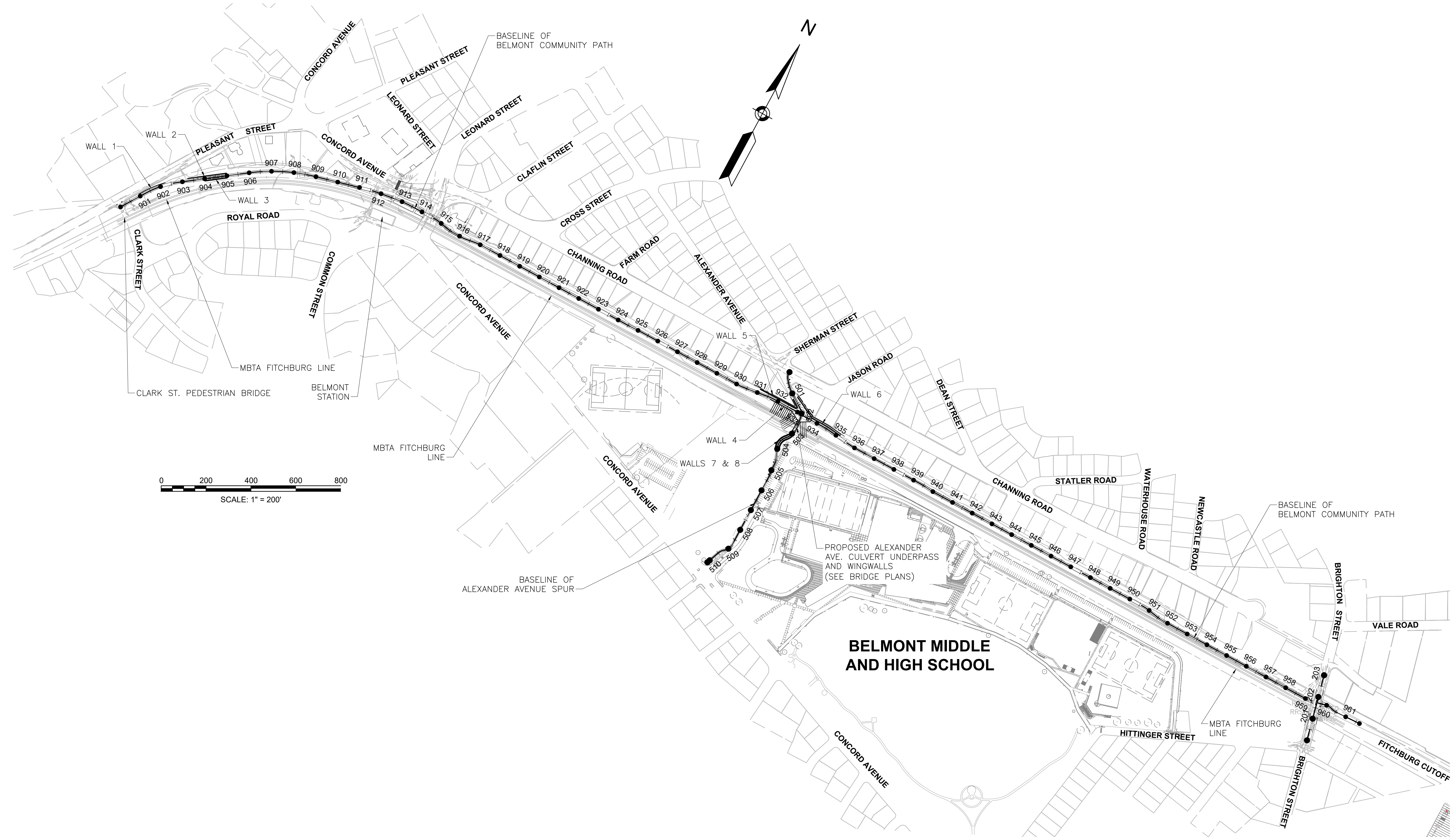
- WHEELCHAIR RAMP DATA TABLE WILL BE FILLED OUT AT 75% SUBMISSION



**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	82	157
PROJECT FILE NO.		609204	

**RETAINING WALL KEY PLAN**

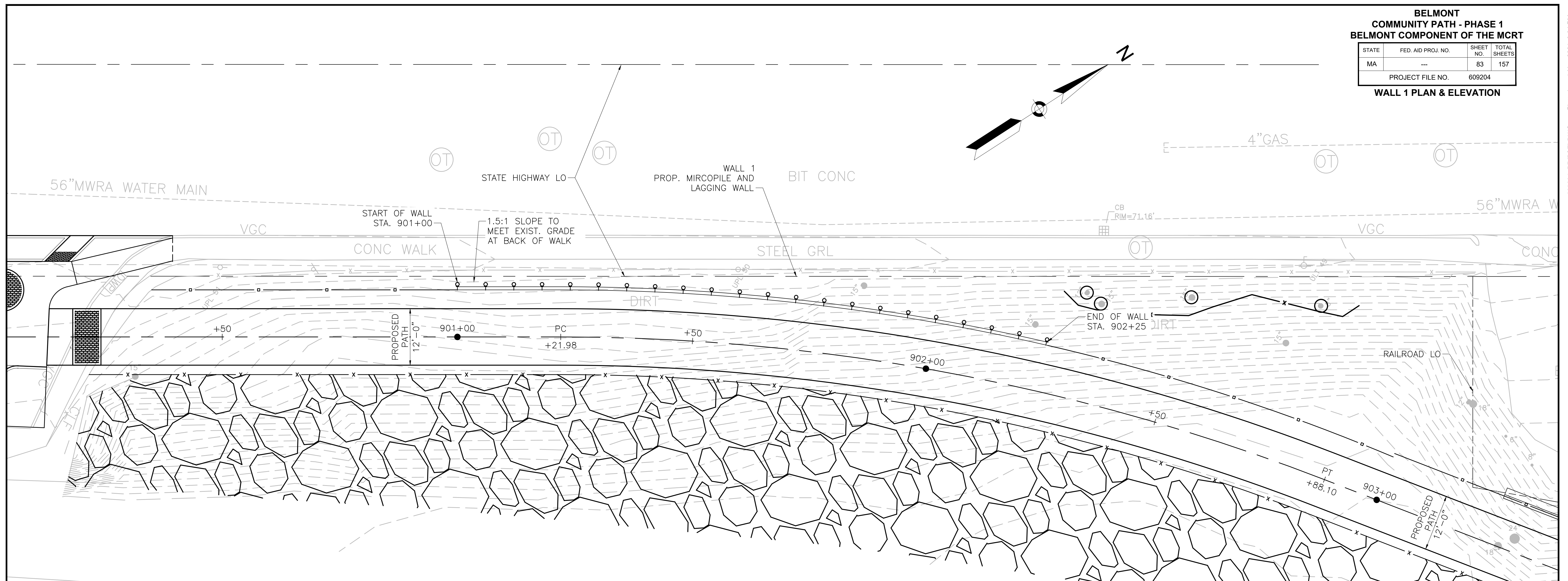


**KEY PLAN - SITE RETAINING WALLS**  
SCALE: 1" = 200'

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

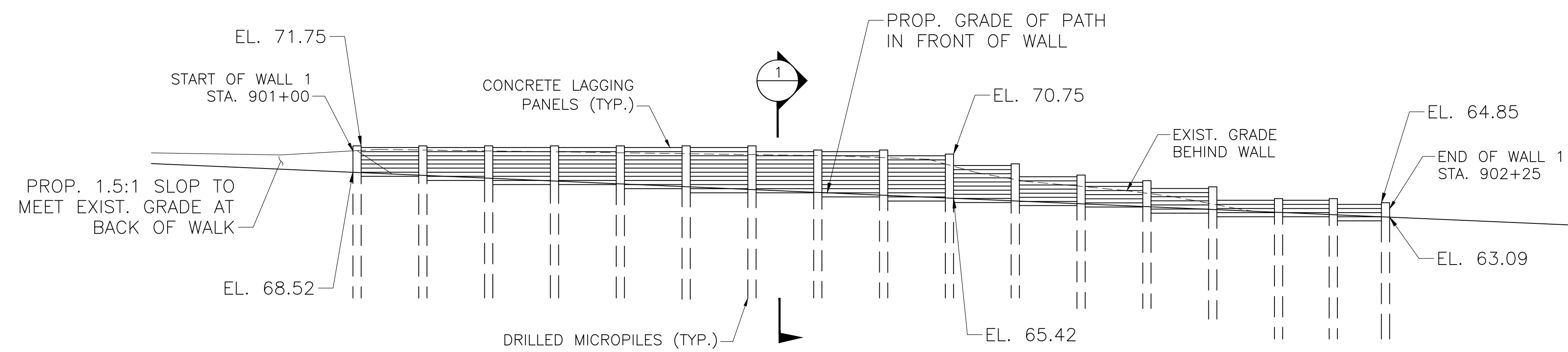
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	83	157
PROJECT FILE NO. 609204			

**WALL 1 PLAN & ELEVATION**



**PLAN VIEW - WALL 1**

SCALE: 1" = 10'

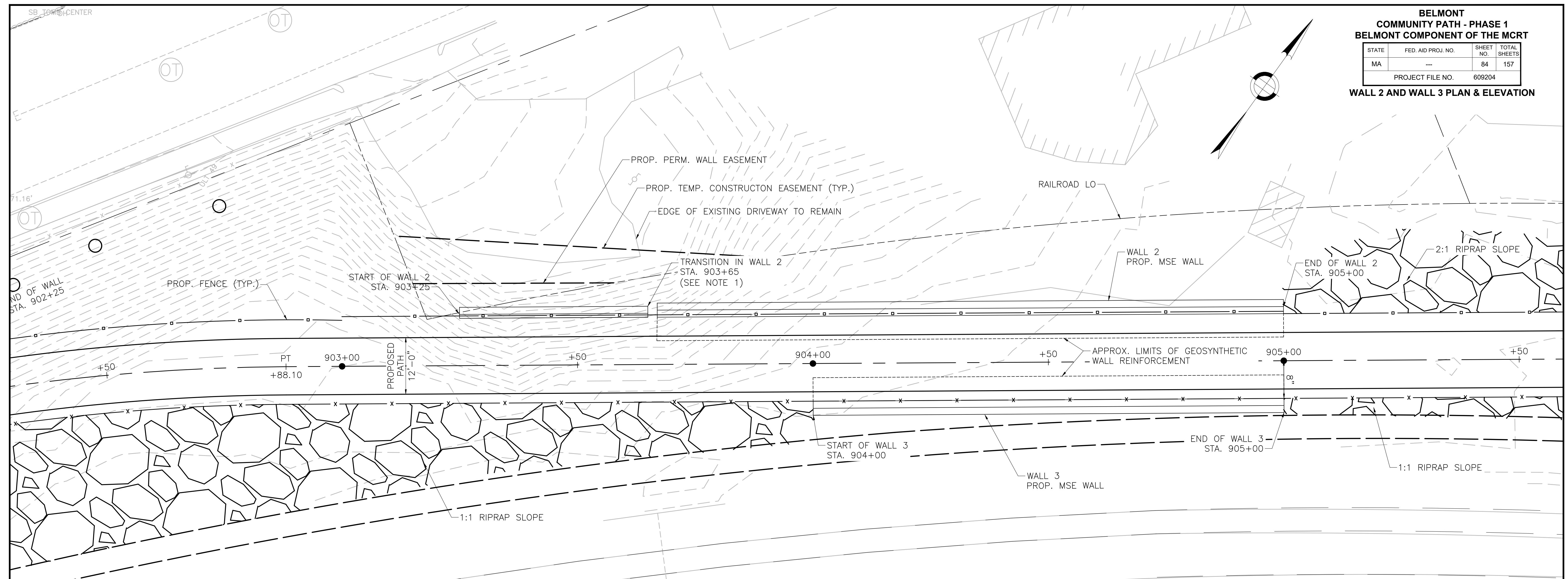


**ELEVATION VIEW - WALL 1**

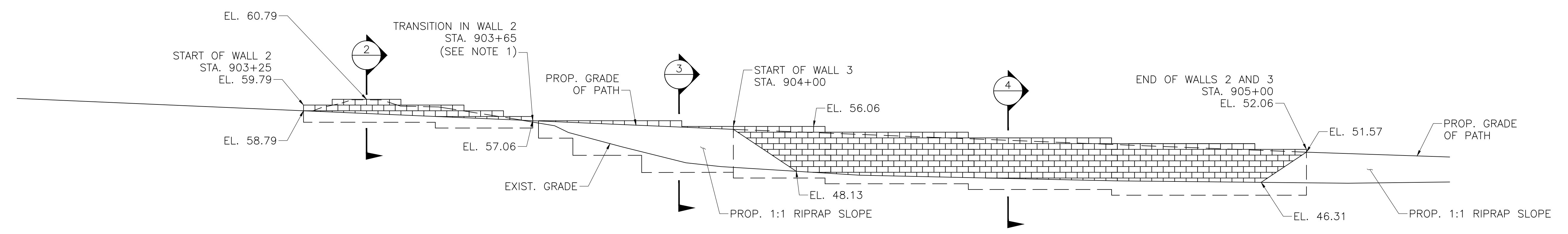
SCALE: 1" = 10'

**WALL 1 - SOLDIER PILE AND LAGGING WALL**



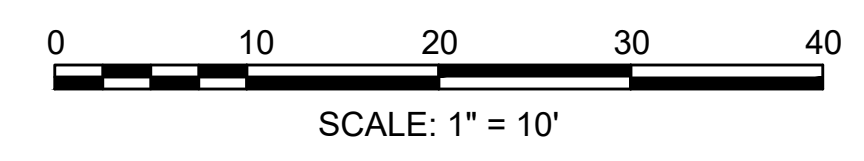


**PLAN VIEW - WALL 2 & 3**  
SCALE: 1" = 10'



**ELEVATION VIEW - WALL 2 & 3**  
SCALE: 1" = 10'

- NOTES:
1. AT STA. 903+65 WALL 2 TRANSITIONS FROM RETAINING EXISTING GRADE ABOVE PROPOSED PATH TO RETAINING PATH ABOVE EXISTING GRADE. PRIOR TO STA. 903+65 THE WALL WILL NOT UTILIZE GEOSYNTHETIC REINFORCEMENT.
  2. PROPOSED FENCE NOT SHOWN FOR CLARITY

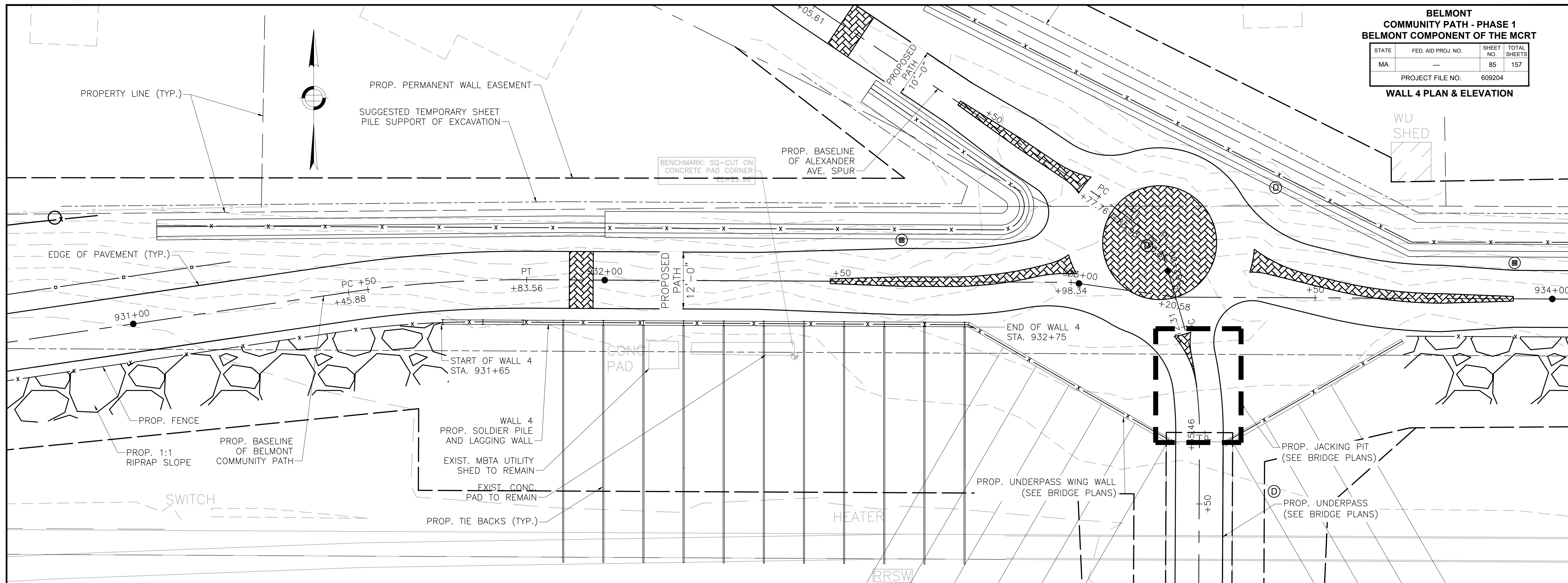


**WALLS 2 AND 3 - MECHANICALLY STABILIZED EARTH (MSE) WALLS**

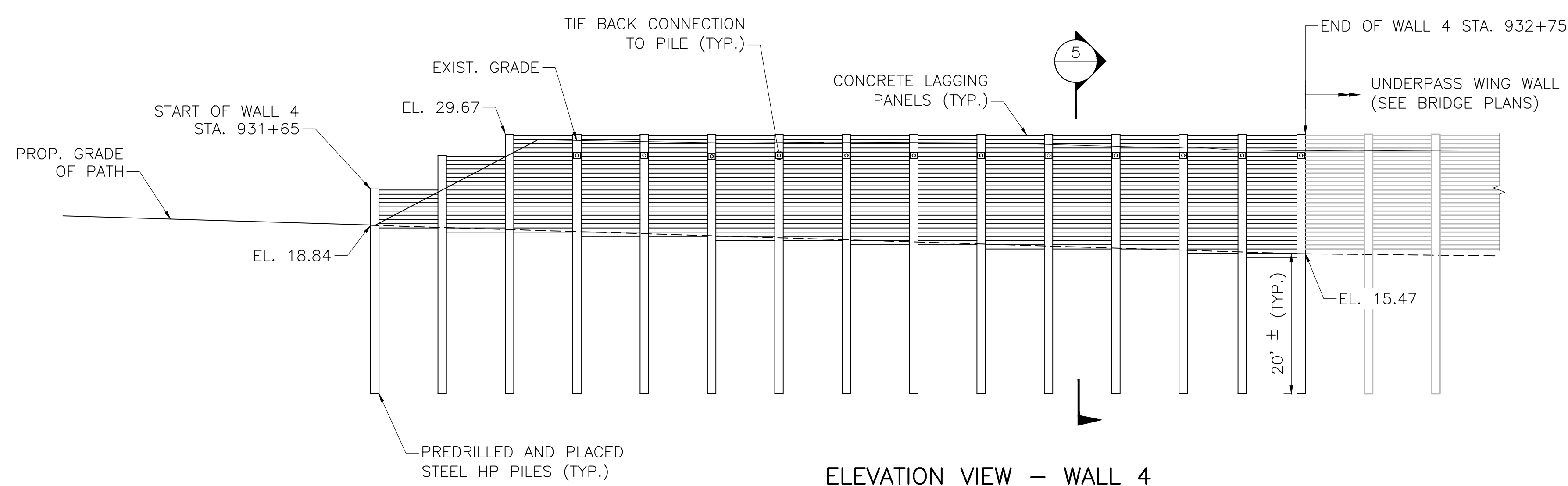
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	85	157
PROJECT FILE NO.		609204	

**WALL 4 PLAN & ELEVATION**

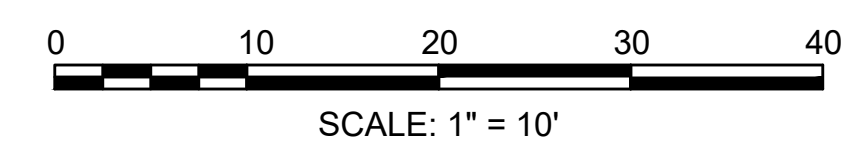


**PLAN VIEW - WALL 4**  
SCALE: 1" = 10'



**ELEVATION VIEW - WALL 4**  
SCALE: 1" = 10'

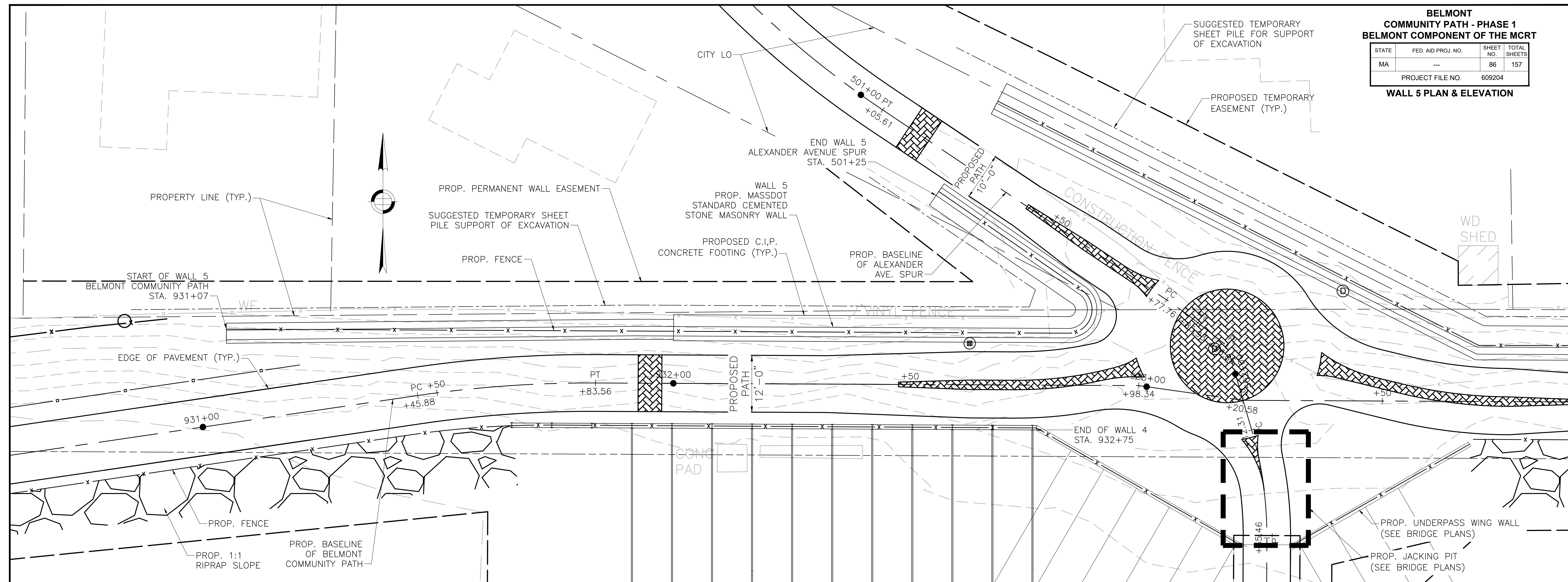
**WALL 4 - SOLDIER PILE AND LAGGING WALL WITH TIE BACKS**



**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCR**

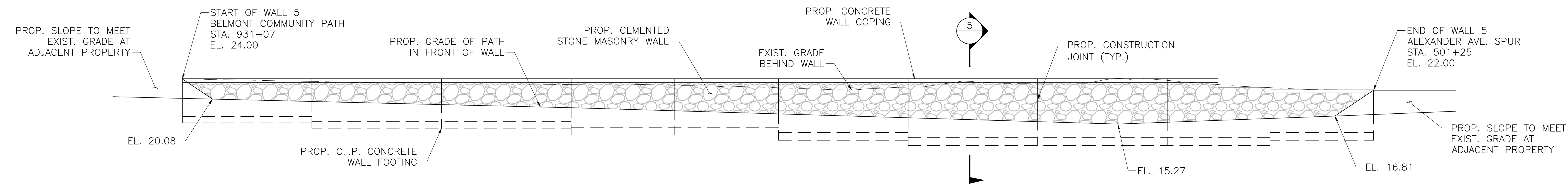
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	86	157
PROJECT FILE NO. 609204			

**WALL 5 PLAN & ELEVATION**



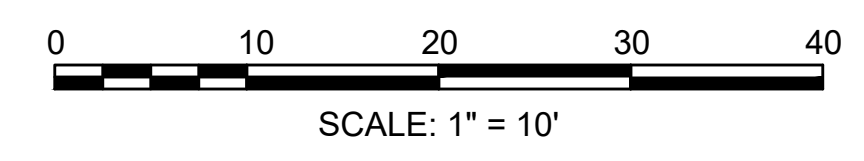
**PLAN VIEW - WALL 5**

SCALE: 1" = 10'



**ELEVATION VIEW - WALL 5**

SCALE: 1" = 10'

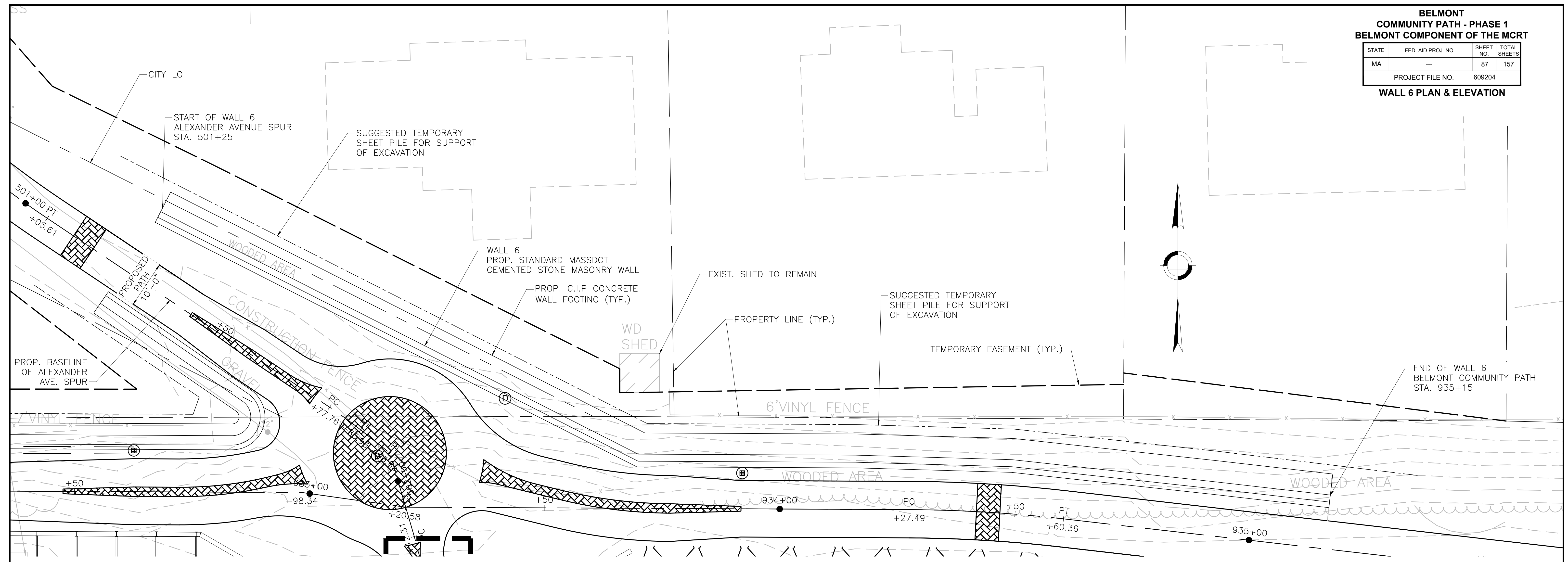


**WALL 5 - MASSDOT STANDARD CEMENTED STONE MASONRY WALL**

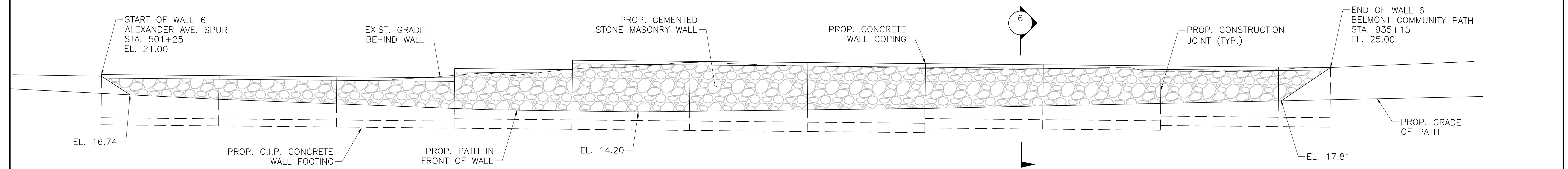
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	87	157
PROJECT FILE NO. 609204			

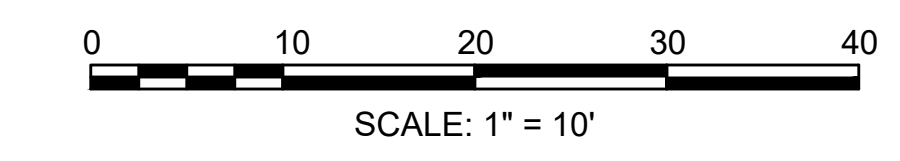
**WALL 6 PLAN & ELEVATION**



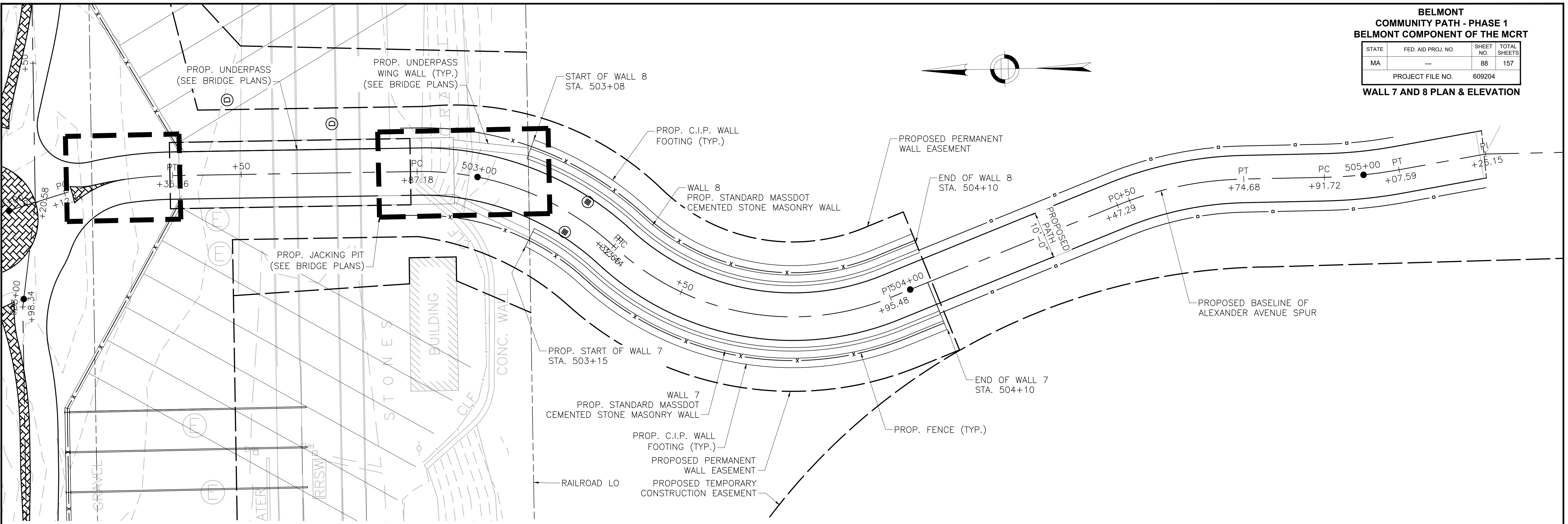
**PLAN VIEW - WALL 6**  
SCALE: 1" = 10'



**ELEVATION VIEW - WALL 6**  
SCALE: 1" = 10'

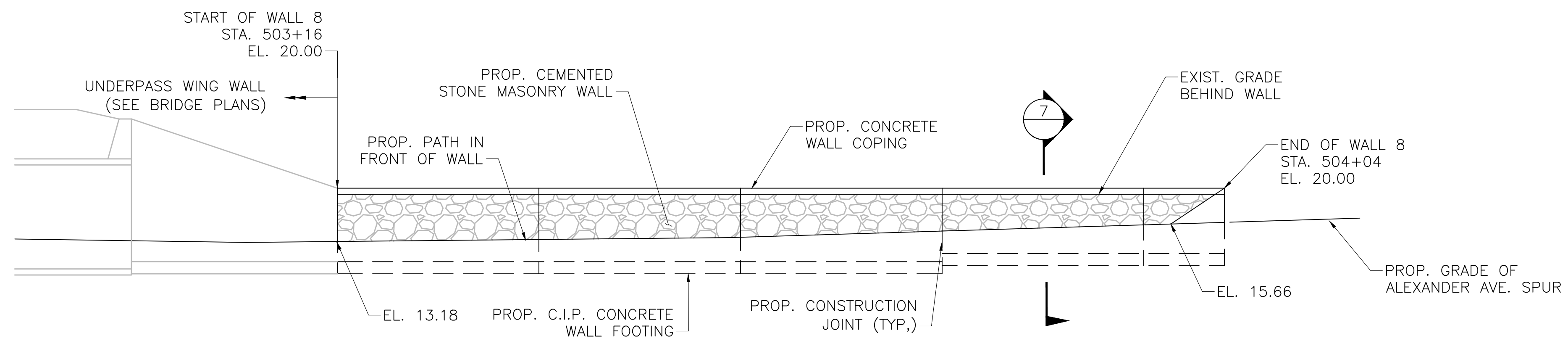


**WALL 6 - MASSDOT STANDARD CEMENTED STONE MASONRY WALL**



**PLAN VIEW – WALL 7 & 8**

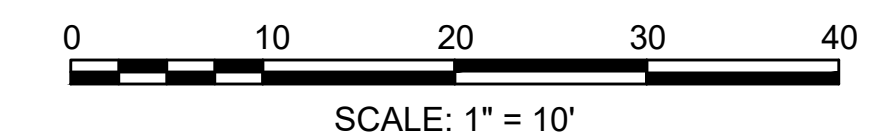
SCALE: 1" = 10'



**ELEVATION VIEW – WALL 8**

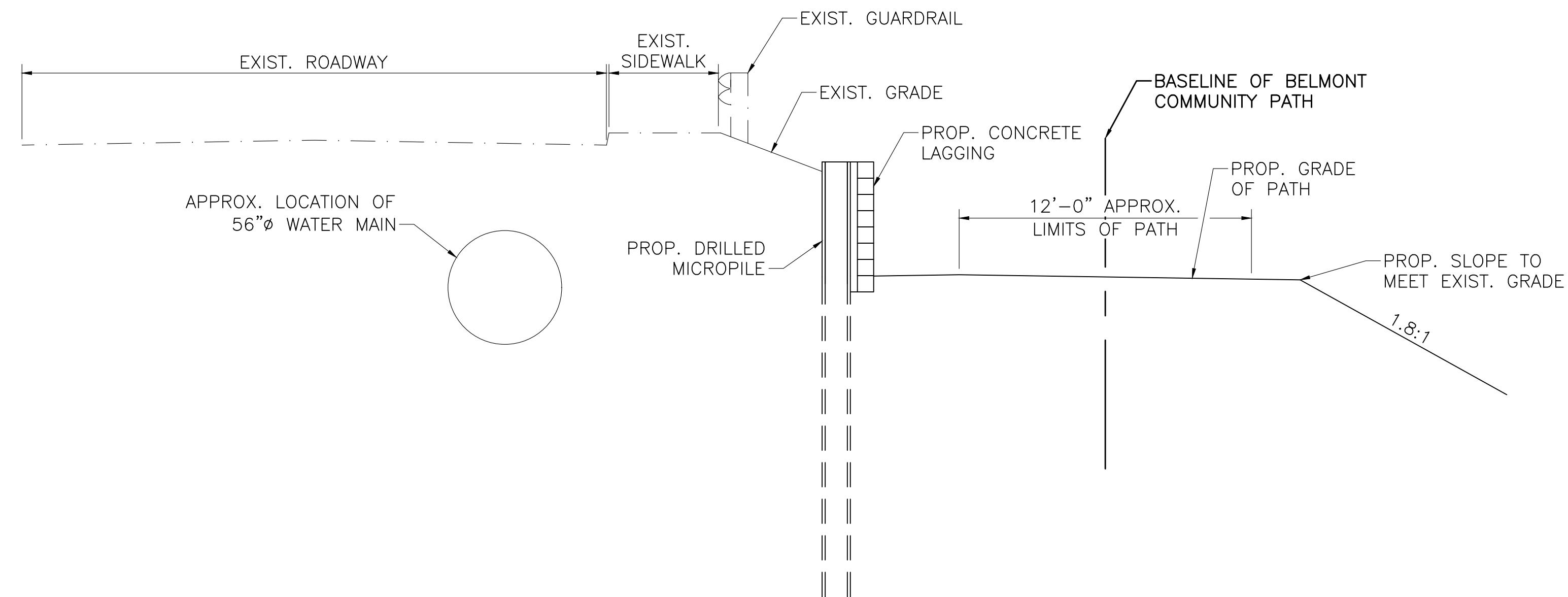
SCALE: 1" = 10'

NOTE: ELEVATION OF WALL 7 IS NOT SHOWN, BUT IS SIMILAR TO WALL 8

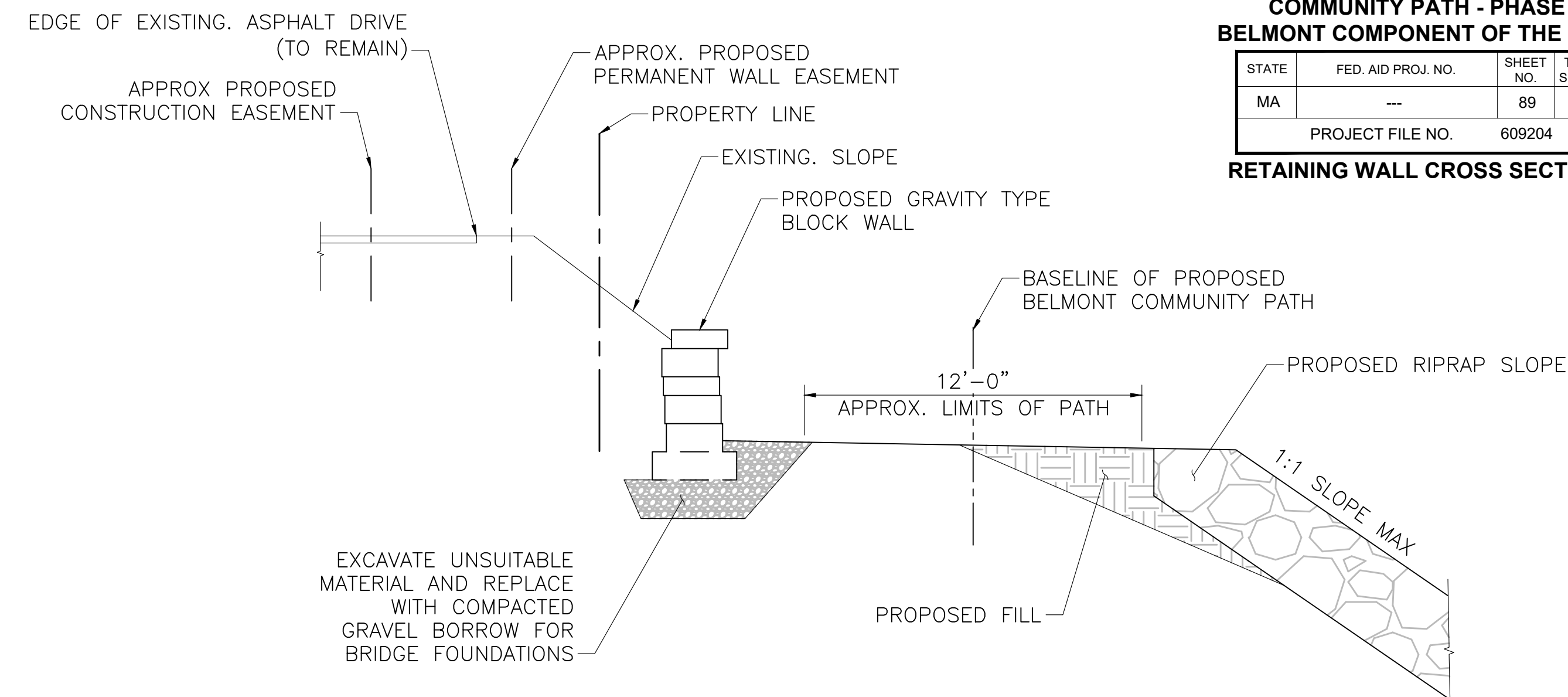


**WALL 7 & 8 – MASSDOT STANDARD CEMENTED STONE MASONRY WALL**

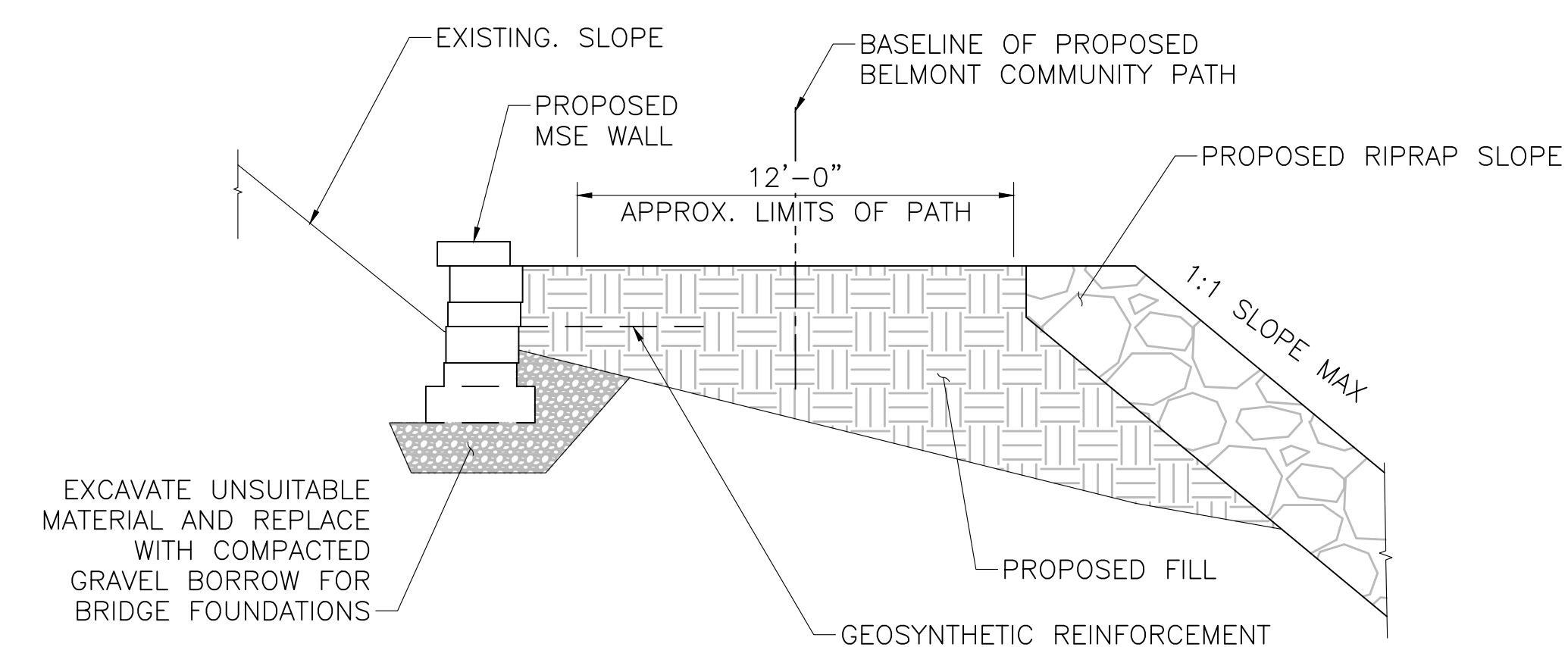




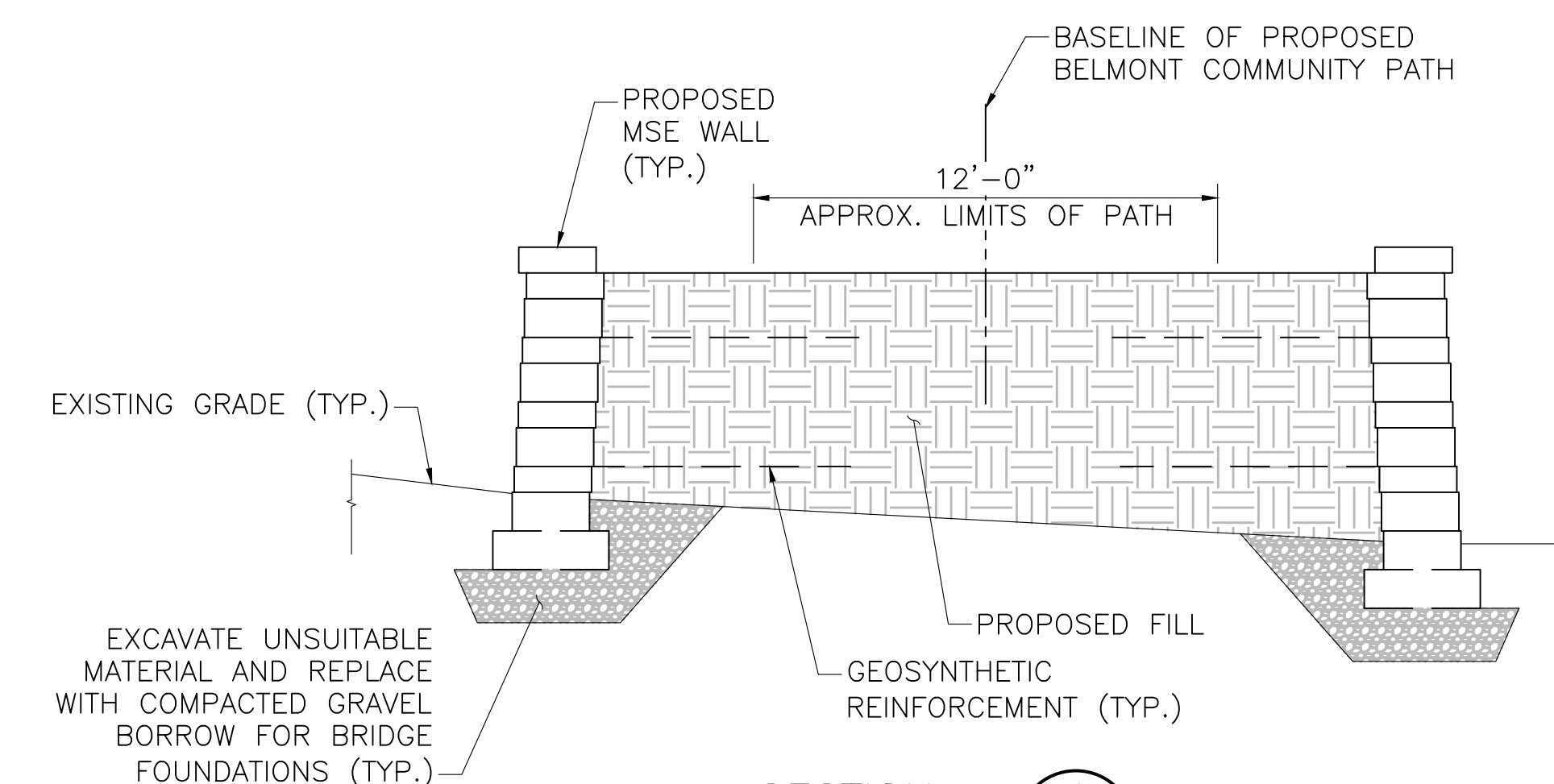
**SECTION 1**  
SCALE: 1/4" = 1'-0"



**SECTION 2**  
SCALE: 1/4" = 1'-0"



**SECTION 3**  
SCALE: 1/4" = 1'-0"

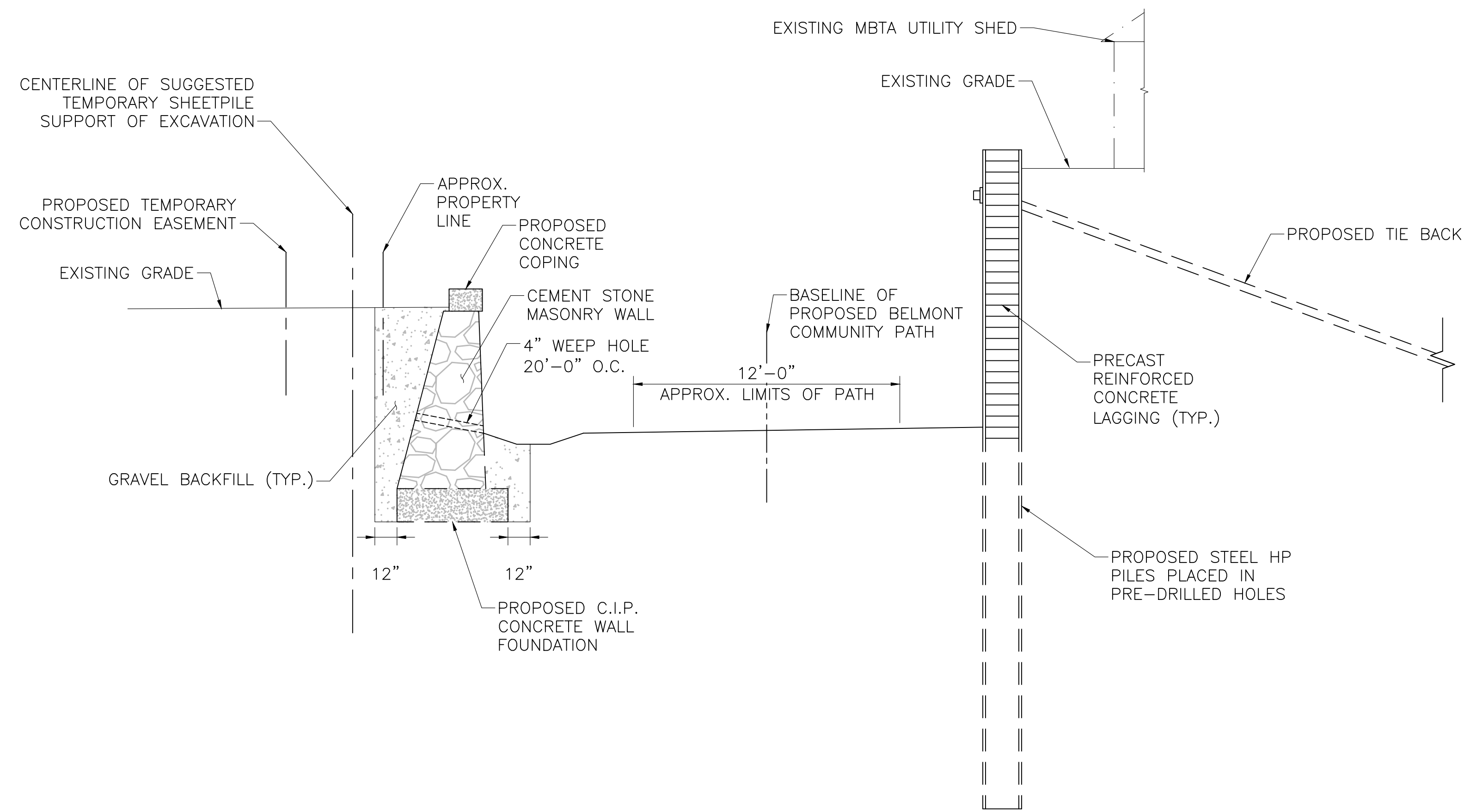


**SECTION 4**  
SCALE: 1/4" = 1'-0"

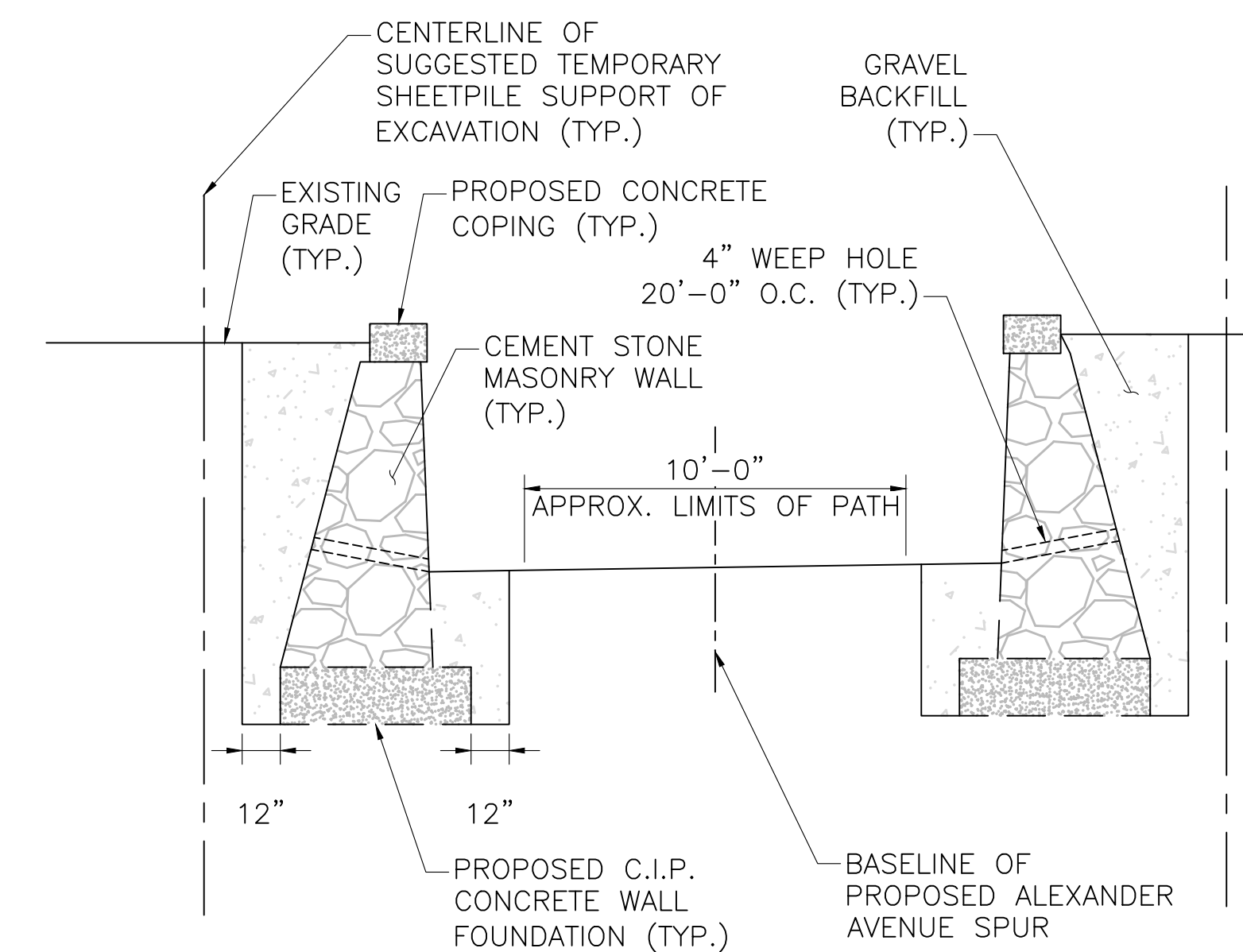
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	90	157
PROJECT FILE NO.		609204	

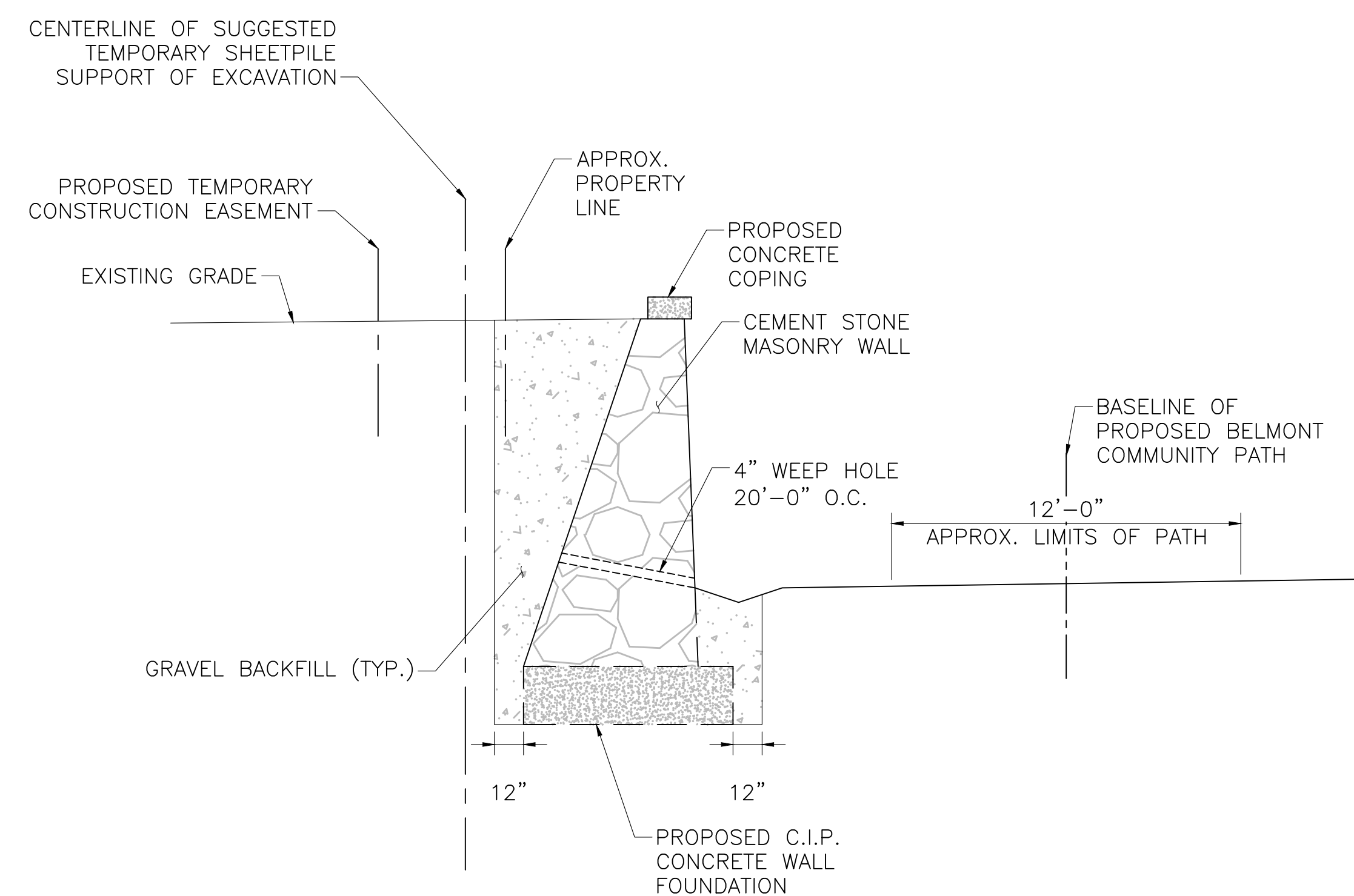
**RETAINING WALL CROSS SECTIONS**



SECTION 5  
SCALE: 1/4" = 1'-0" 1

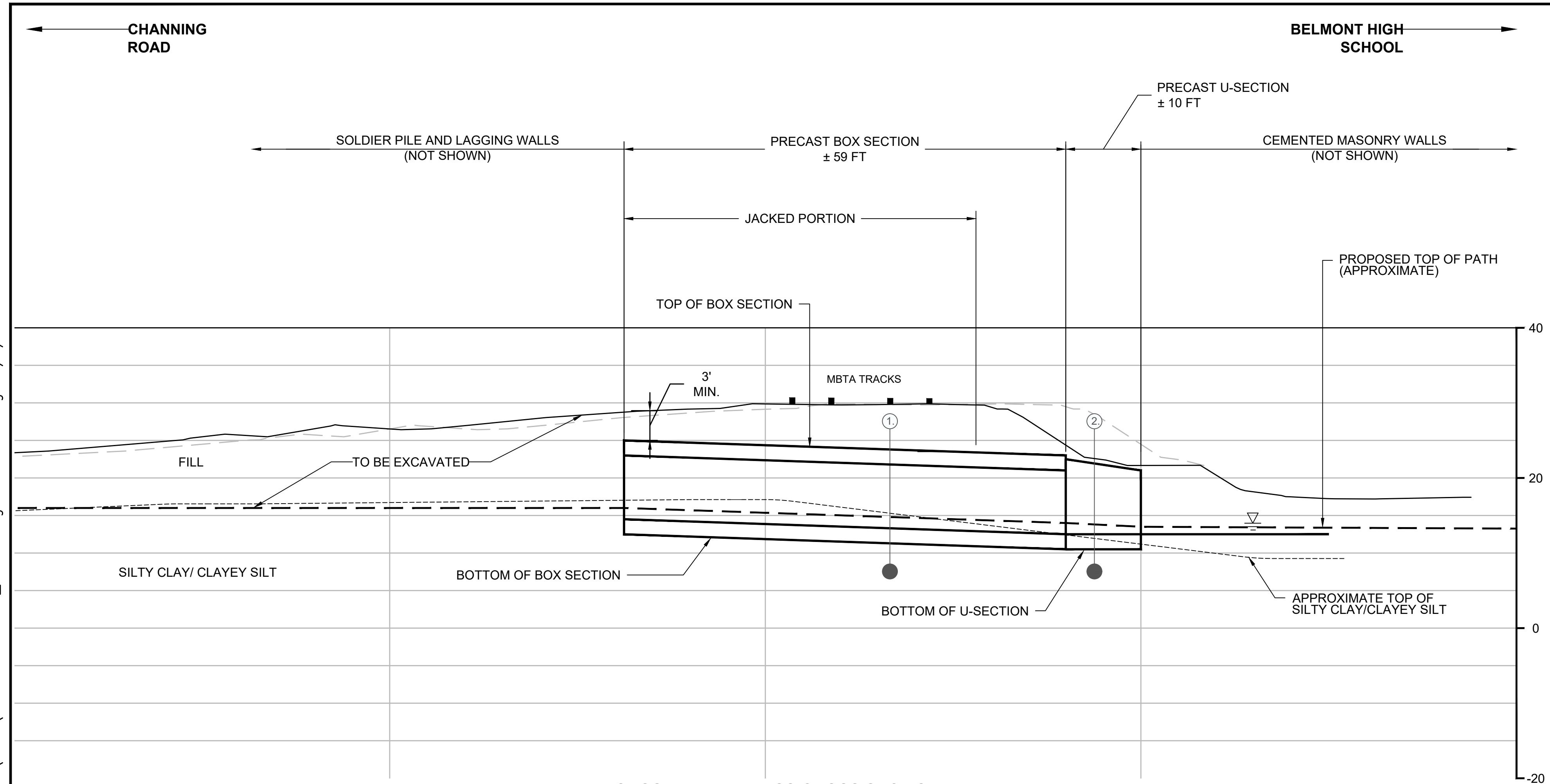


SECTION 7  
SCALE: 1/4" = 1'-0" 1



SECTION 6  
SCALE: 1/4" = 1'-0" 1

Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\References\REF\01-0174493-00\_25% Design Submittal.dwg 11/1/2021 4:33 PM



**PROPOSED UNDERPASS CROSS SECTION**  
SCALE: 1" = 20'  
0 10 20 40 60  
SCALE IN FEET

**LEGEND:**

- TOP OF PROPOSED COMMUNITY PATH
- APPROXIMATE TRANSITION FROM FILL TO SILTY CLAY/CLAYEY SILT

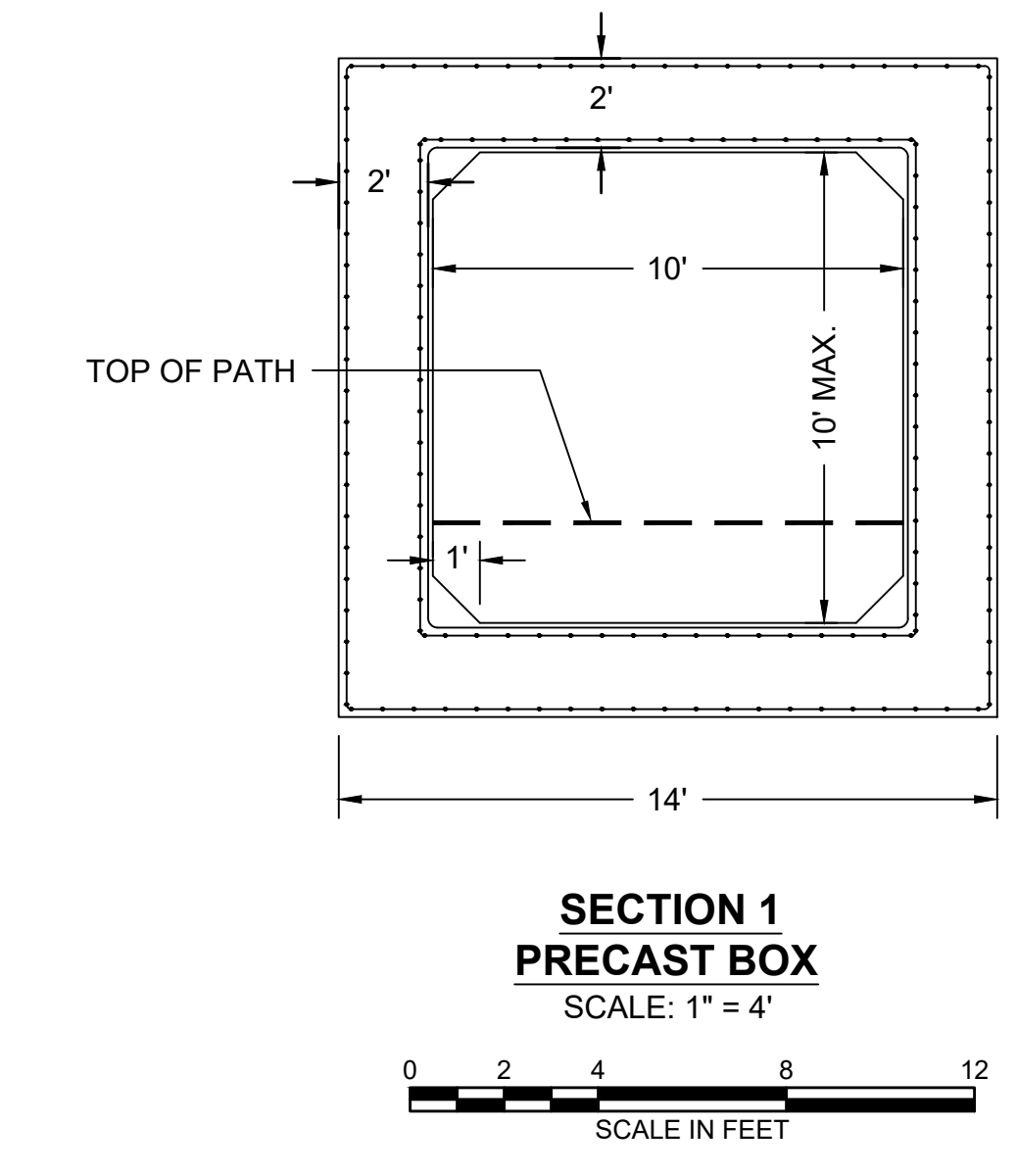
**NOTES:**

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES.
2. TRANSITIONS BETWEEN SOIL STRATA ARE BASED ON WIDELY SPACED BORINGS AND ARE EXPECTED TO VARY FROM WHAT IS SHOWN.
3. SOLDIER PILE AND LAGGING WALLS NOT SHOWN FOR CLARITY.
4. PRECAST CONCRETE BOX SECTION TO BE JACKED UNDER EXISTING MBTA FITCHBURG LINE. MINIMUM VERTICAL CLEARANCE OF 3' BETWEEN TOP OF JACKED SECTION AND BOTTOM OF TIE ELEVATION, TO BE MAINTAINED DURING JACKING.
5. CONTRACTOR TO DESIGN AND INSTALL TRACK SUPPORT STRUCTURE, AS NEEDED, TO PREVENT DISPLACEMENT OF MBTA TRACKS, DURING JACKING.
6. CONTRACTOR TO VERIFY MINIMUM BOX SECTION REQUIREMENTS FOR JACKED SECTION, BASED ON JACKING FORCES.
7. MINIMUM CONCRETE STRENGTH OF 5,000 PSI FOR PRECAST BOX AND U SECTIONS.
8. ADDITIONAL BOX SECTIONS TO BE PLACED, BEYOND JACKING LIMITS TO EXTEND BOX SECTION TO MEET PROPOSED GRADE OR PROPOSED SITE RETAINING WALLS.
9. PRECAST U-SECTIONS TO BE PLACED TO TRANSITION FROM BOX SECTION TO PROPOSED CEMENTED MASONRY SITE WALLS.
10. U-SECTION HEIGHT WILL VARY TO MATCH PROPOSED GRADE. MAXIMUM HEIGHT OF 10' AT INTERSECTION WITH BOX SECTION.
11. GROUNDWATER LEVEL SHOWN BASED ON WELL MEASUREMENTS IN AUGUST 2020; GROUNDWATER LEVEL WILL VARY.
12. PRECAST CONCRETE BOX SECTION SHOWN DESIGN TO SUPPORT FINAL DESIGN LOADS, INCLUDING COOPER E80 LOADING. CONTRACTOR RESPONSIBLE FOR DESIGN OF AND PROVIDING LARGER BOX SECTION AND/OR ADDITIONAL REINFORCING AS REQUIRED TO WITHSTAND JACKING FORCES.

**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	91	157
PROJECT FILE NO.		609204	

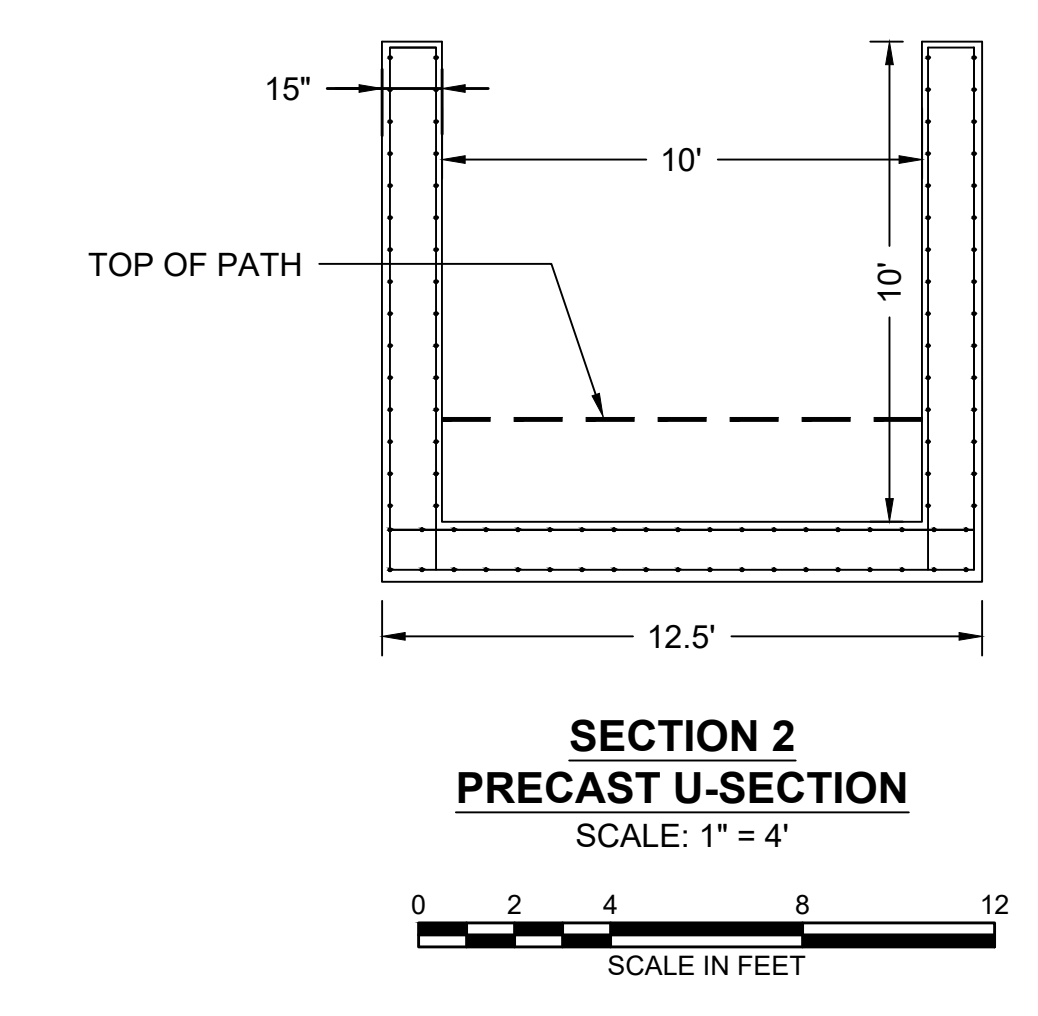
**UNDERPASS DETAILS**



**REINFORCING:**

**WALLS:**  
VERTICAL - No. 6 BARS @ 8" C/C  
HORIZONTAL - No. 5 BARS @ 8" C/C

**SLAB:**  
No. 6 BARS @ 8" C/C  
TOP AND BOTTOM (BOTH WAYS)



**REINFORCING:**

**WALLS:**  
VERTICAL - No. 6 BARS @ 8" C/C  
HORIZONTAL - No. 6 BARS @ 8" C/C

**SLAB:**  
No. 6 BARS @ 8" C/C  
TOP AND BOTTOM (BOTH WAYS)

01-0174493-00\_25% DESIGN SUBMITTAL.DWG Plotted on Nov-21 4:33 PM

Nitsch - P:\10000-14999\13548 BelmontCompPath\Transportation\CAD\609204\Project Drawing Data\DWG\References\XREF\01-0174493-00\_25% Design Submittal.dwg 11/1/2021 4:33 PM

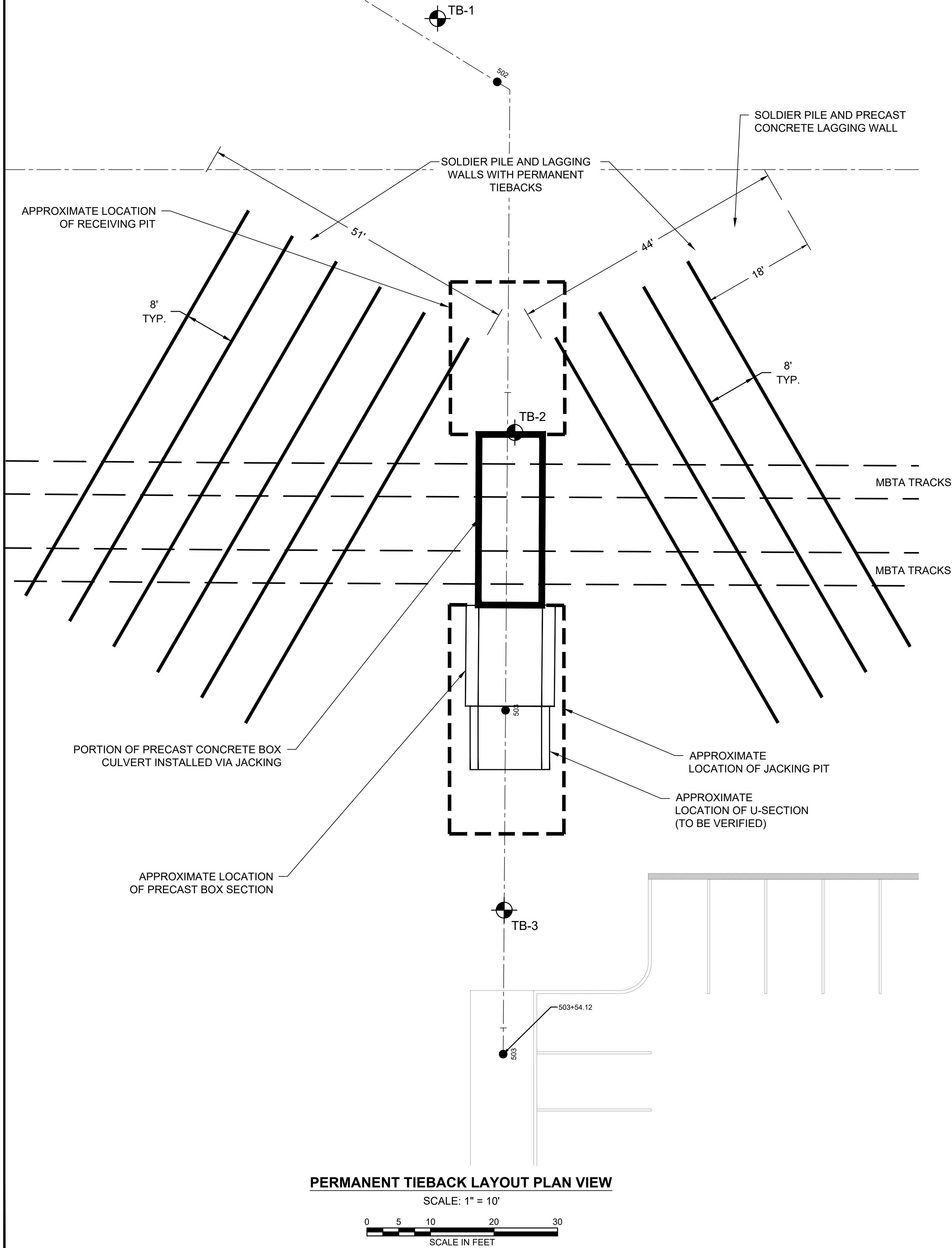
**BELMONT  
COMMUNITY PATH - PHASE 1  
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	92	157
PROJECT FILE NO.		609204	

**UNDERPASS DETAILS**

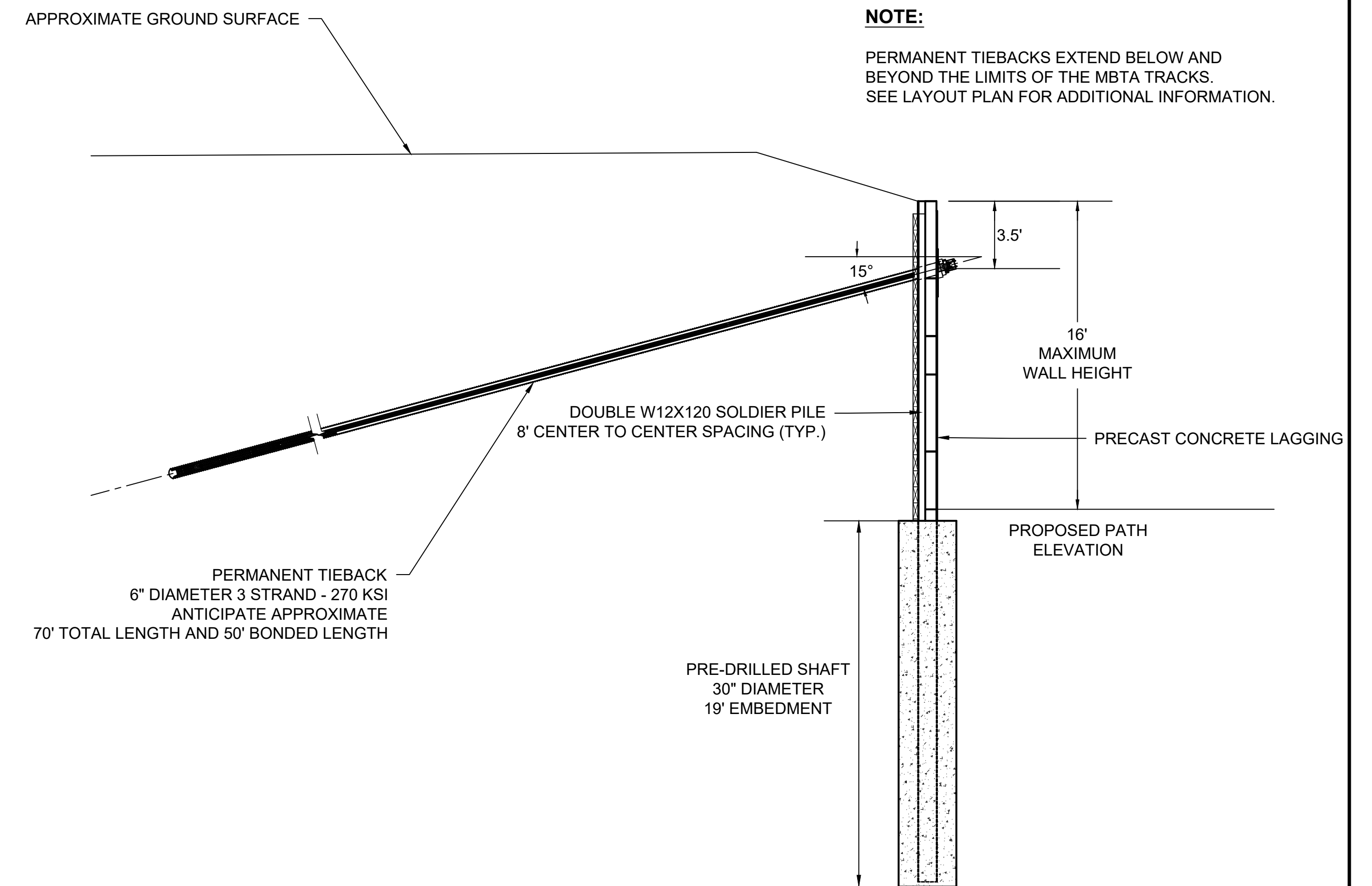
**NOTES:**

1. DOUBLE W12X120, 50 KSI STEEL, SOLDIER PILES TO BE INSTALLED AT MAXIMUM 8 FEET CENTER TO CENTER SPACING. FIRST SOLDIER PILE TO BE NO FURTHER THAN 4 FEET FROM EDGE OF PROPOSED UNDERPASS.
2. MAXIMUM PILE LENGTH - 35'.
3. MINIMUM PILE EMBEDMENT - 19'.
4. SOLDIER PILE LOCATIONS SHALL PRE-AUGERED, FULL DEPTH, 30" DIAMETER SHAFT.
5. BACKFILL ANNULUS WITH FLOWABLE FILL OR LEAN CONCRETE.
6. PERMANENT FACING NOT SHOWN, FOR CLARITY.
7. PERMANENT TIEBACKS REQUIRED FOR WALL HEIGHTS OF 8 FEET OR HIGHER.
8. TIEBACKS - 6" DIAMETER, 3-STRAND - 270 KSI, 5,000 PSI GROUT.
9. INSTALL TIEBACKS AT 3.5' BELOW TOP OF PILE.



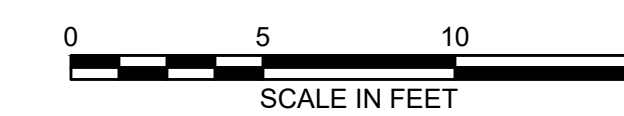
**PERMANENT TIEBACK LAYOUT PLAN VIEW**

SCALE: 1" = 10'



**SOLDIER PILE AND LAGGING WALL WITH PERMANENT TIEBACKS DETAIL**

SCALE: 1" = 5'



01-0174493-00\_25% DESIGN SUBMITTAL.DWG Plotted on Nov-21 4:33 PM