

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	31

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

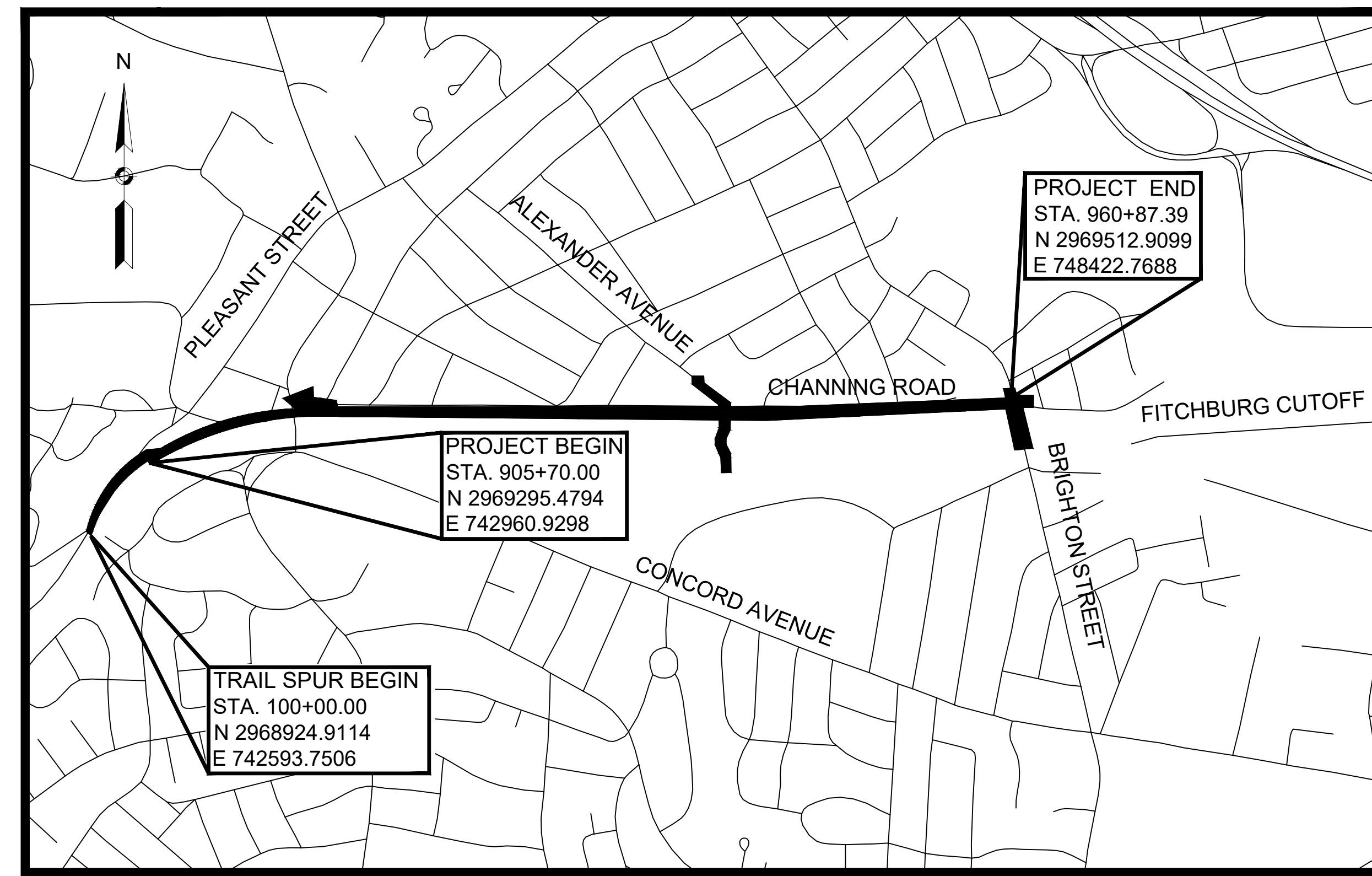
THESE PLANS ARE SUPPLEMENTED BY THE MASSACHUSETTS DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 2020, OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD 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.

FEDERAL AID PROJECT NO.

DRAFT 25% SUBMITTAL

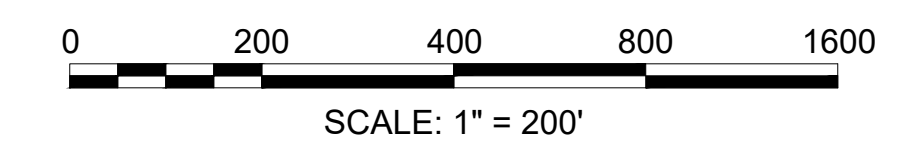
INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	LEGEND & ABBREVIATIONS
3	KEY PLAN
4-8	TYPICAL SECTIONS
9-22	CONSTRUCTION PLANS & PROFILES
23	PROFILE - ALEXANDER AVENUE
24	TRAFFIC SIGNAL PLAN
25-31	DRAINAGE AND UTILITY PLANS



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/AAAB ACCESSIBLE RAMPS)



LENGTH OF PROJECT = 5517.39 FEET = 1.045 MILES

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Nitech Engineering
www.nitecheng.com
2 Center Plaza, Suite 400
Boston, MA 02108
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F: (617) 338-6412

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DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED:
DIVISION ADMINISTRATOR DATE

07-01-2020	DRAFT 25% SUBMISSION	0
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APPROVED
CHIEF ENGINEER DATE

Nitech - Q:\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(TITLE).dwg 7/2/2020 2:54 PM

609204_HD(TITLE).DWG Plotted on 2020/07/02 2:54 PM

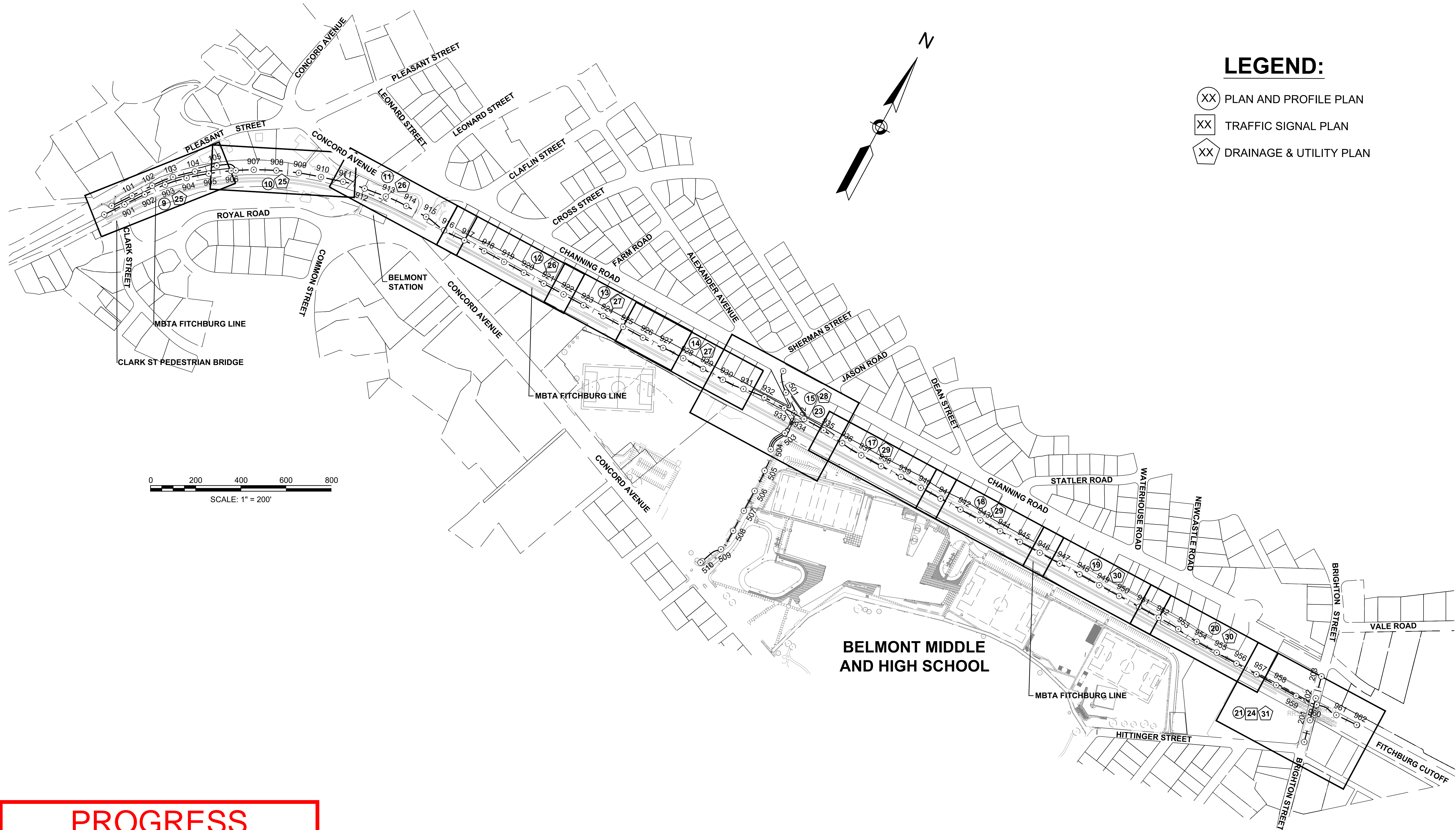
**BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	3	31
PROJECT FILE NO.		609204	

KEY PLAN

LEGEND:

- (XX) PLAN AND PROFILE PLAN
- (XX) TRAFFIC SIGNAL PLAN
- (XX) DRAINAGE & UTILITY PLAN



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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	4	31
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 - 19.0 (SIC-19.0)

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: 3.50" HOT MIX ASPHALT PLACED IN TWO LIFTS:
(1.50" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER
2.00" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0)

SUBBASE: 8" GRAVEL BORROW, TYPE b*

PROPOSED CEMENT CONCRETE SIDEWALK AT DRIVEWAY

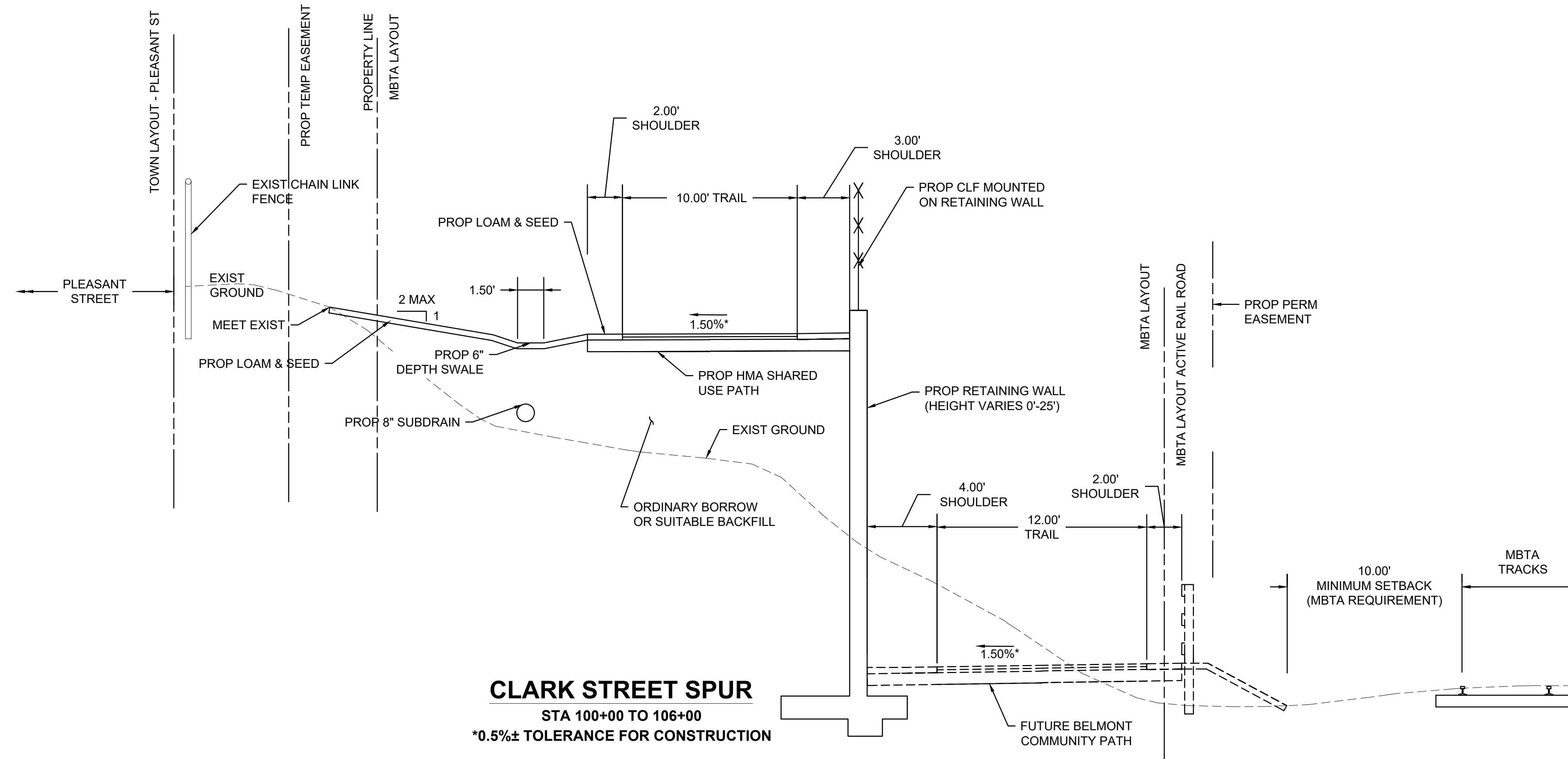
SURFACE: 6" CEMENT CONCRETE SIDEWALK (4000 PSI, 3/4", 610)

SUBBASE: 8" GRAVEL BORROW, TYPE b*

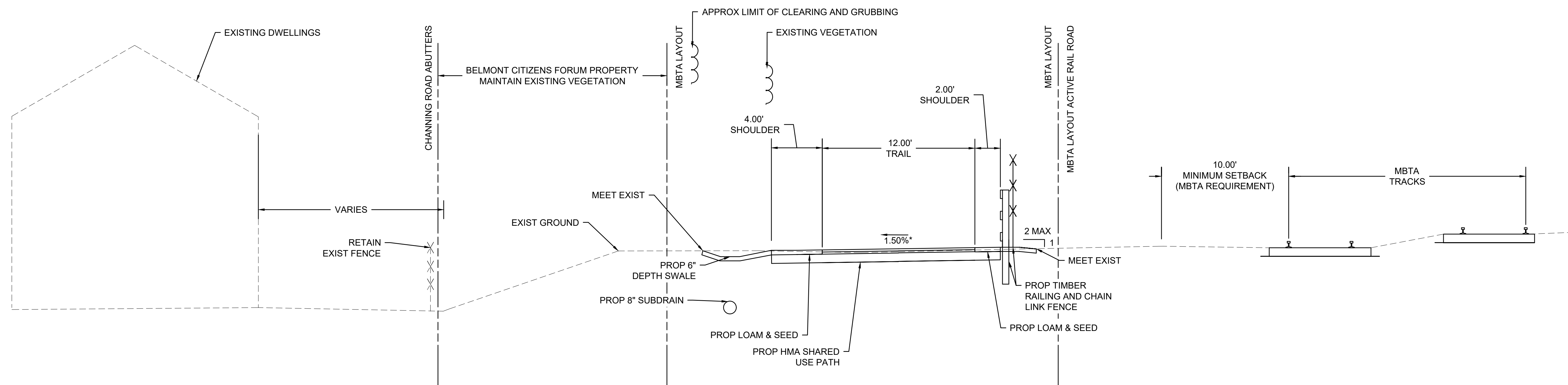
*EXISTING GRAVEL BORROW TYPE MEETING CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL BE RETAINED FOR USE ON SITE AS PROVIDED IN THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES.

NOTES:

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



CLARK STREET SPUR
STA 100+00 TO 106+00
*0.5%± TOLERANCE FOR CONSTRUCTION



BELMONT COMMUNITY PATH - PARALLEL WITH RAIL ROAD

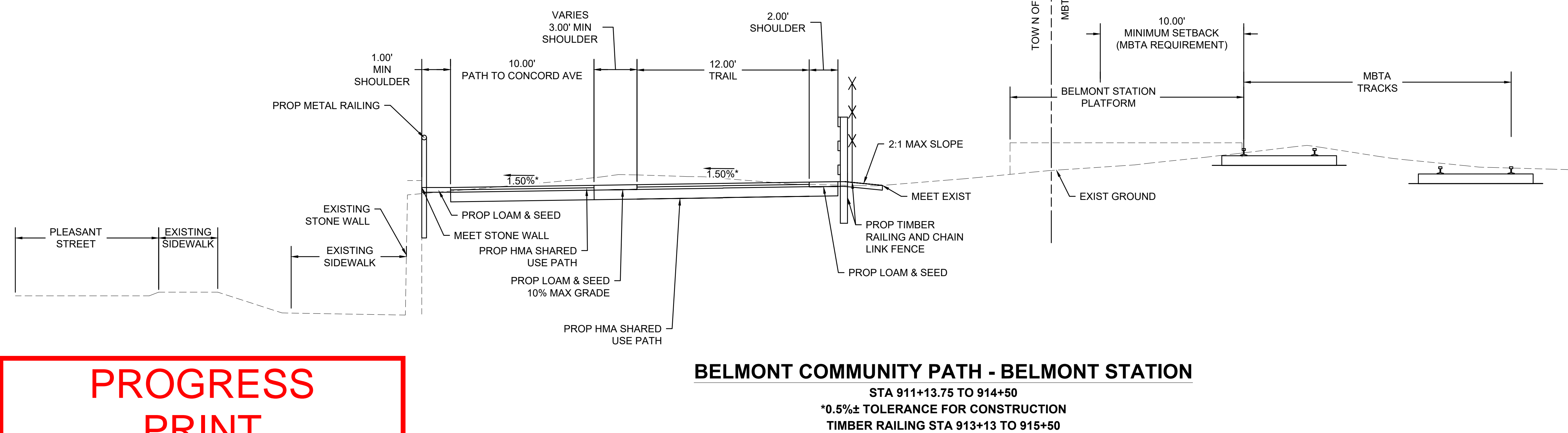
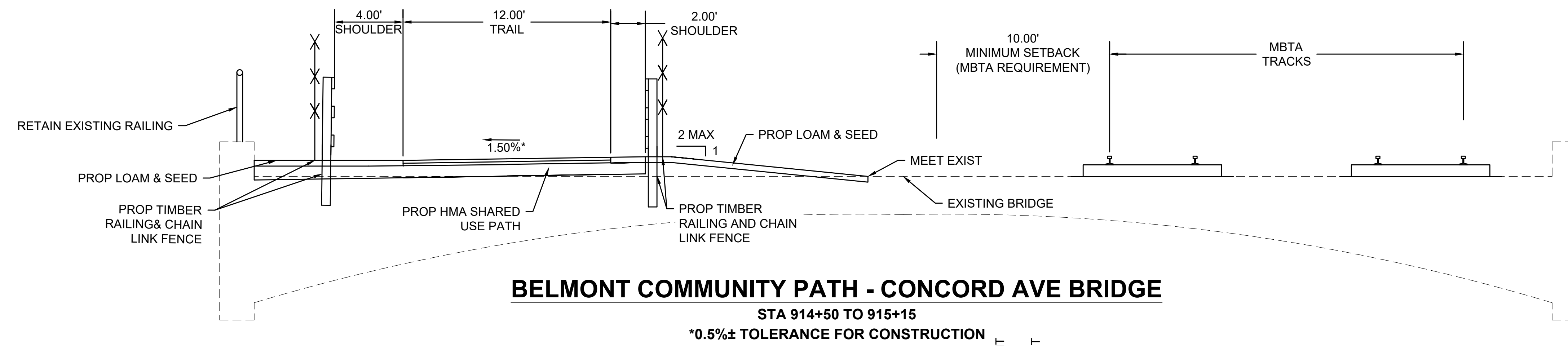
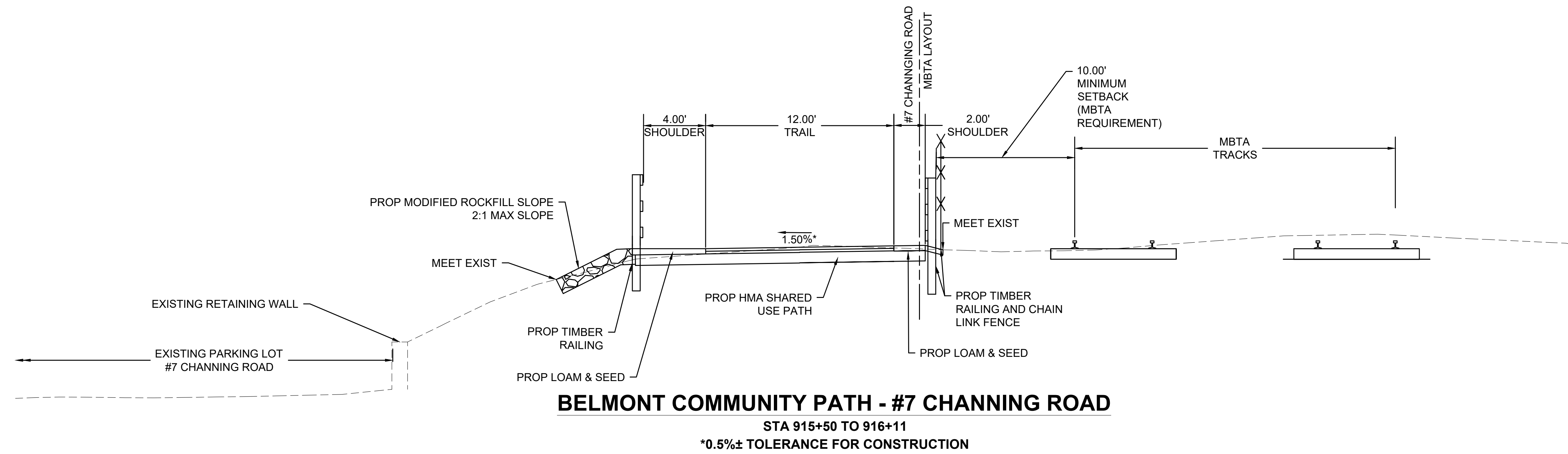
STA 905+70 TO 911+13.75 (CLARK ST SPUR TO BELMONT STATION)
STA 916+11 TO 931+42 (#7 CHANNING ROAD TO ALEXANDER AVE)
STA 936+50 TO 956+01.73 (ALEXANDER AVE TO #40 BRIGHTON ST)
*0.5%± TOLERANCE FOR CONSTRUCTION

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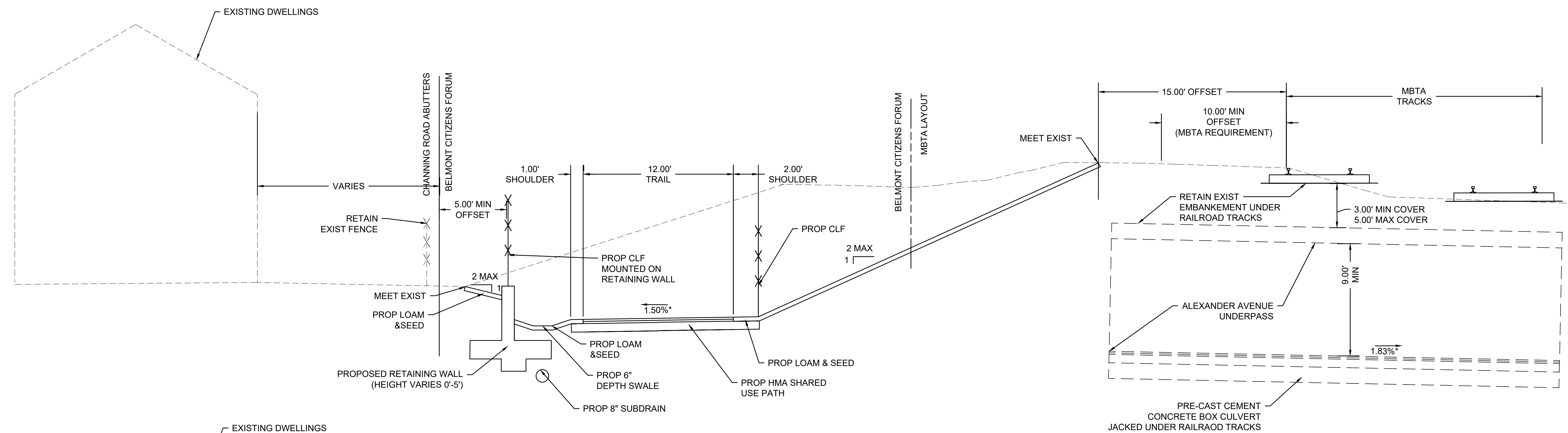
**BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	5	31
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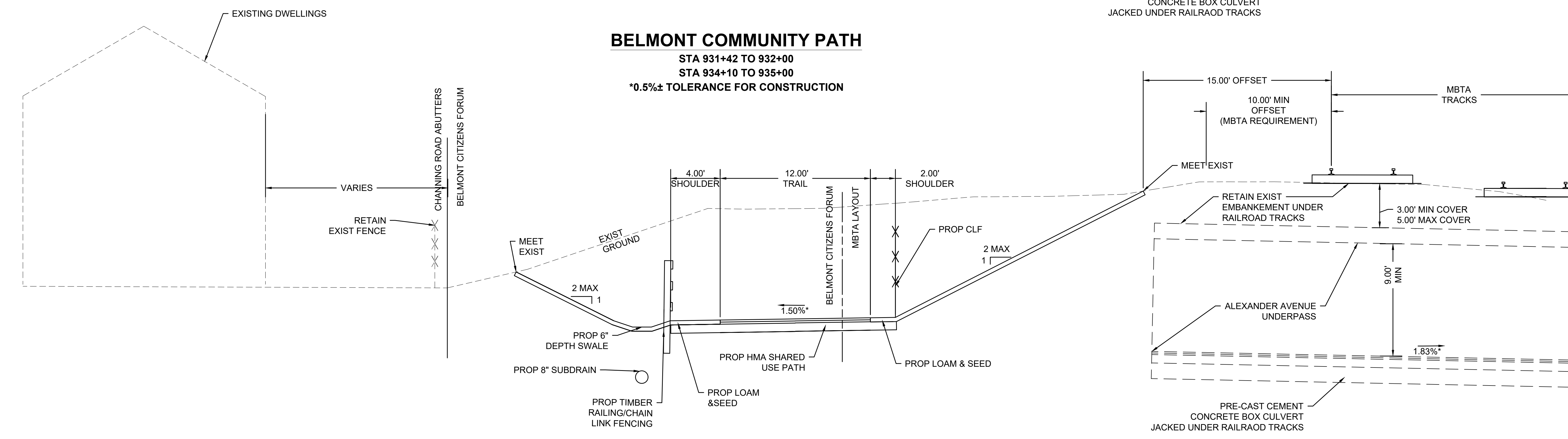
TYPICAL SECTIONS & PAVEMENT NOTES



**PROGRESS
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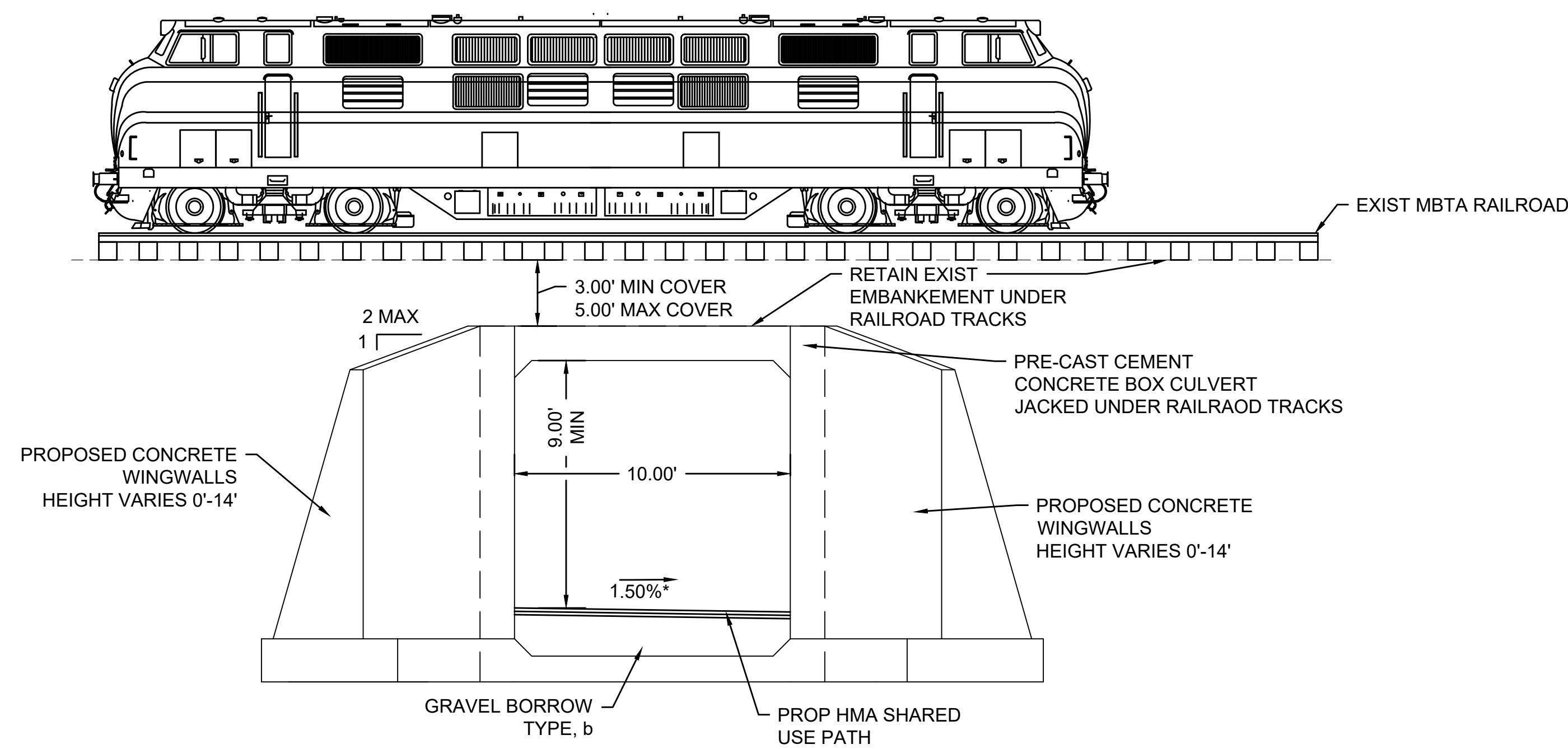


BELMONT COMMUNITY PATH
 STA 931+42 TO 932+00
 STA 934+10 TO 935+00
 *0.5%± TOLERANCE FOR CONSTRUCTION

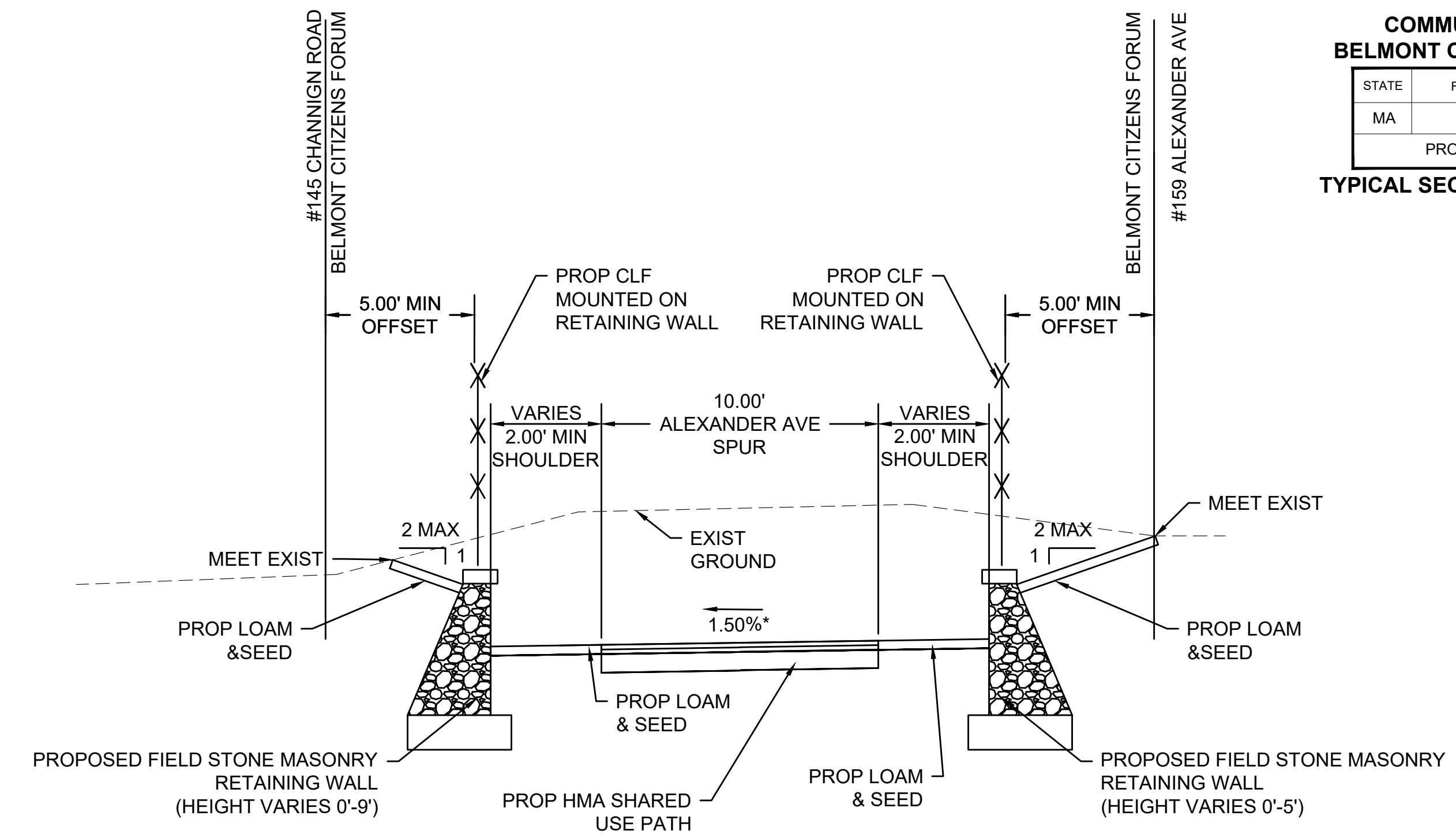


BELMONT COMMUNITY PATH
 STA 930+00 TO 931+42
 STA 935+00 TO 936+50
 *0.5%± TOLERANCE FOR CONSTRUCTION

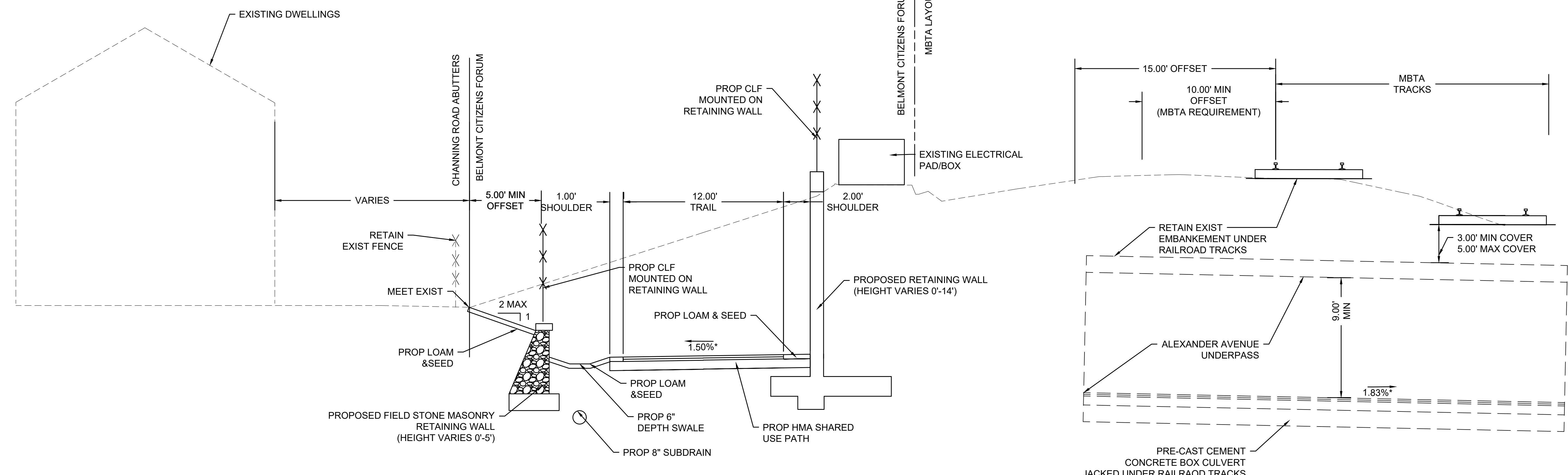
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ALEXANDER AVENUE SPUR - UNDERPASS SECTION
*0.5%± TOLERANCE FOR CONSTRUCTION



ALEXANDER AVENUE SPUR
*0.5%± TOLERANCE FOR CONSTRUCTION



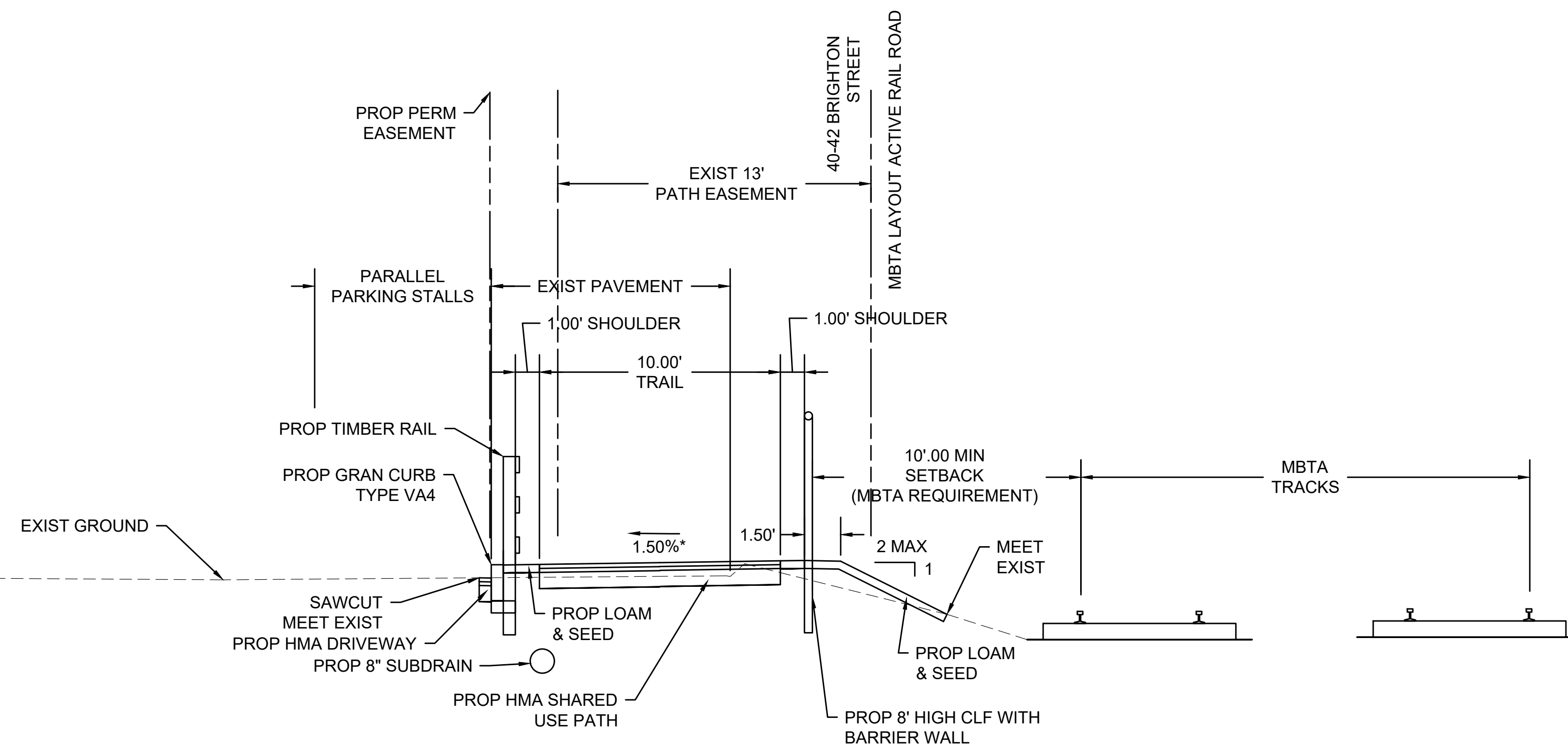
BELMONT COMMUNITY PATH
STA 931+42 TO 934+10
*0.5%± TOLERANCE FOR CONSTRUCTION

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	8	31
PROJECT FILE NO.		609204	

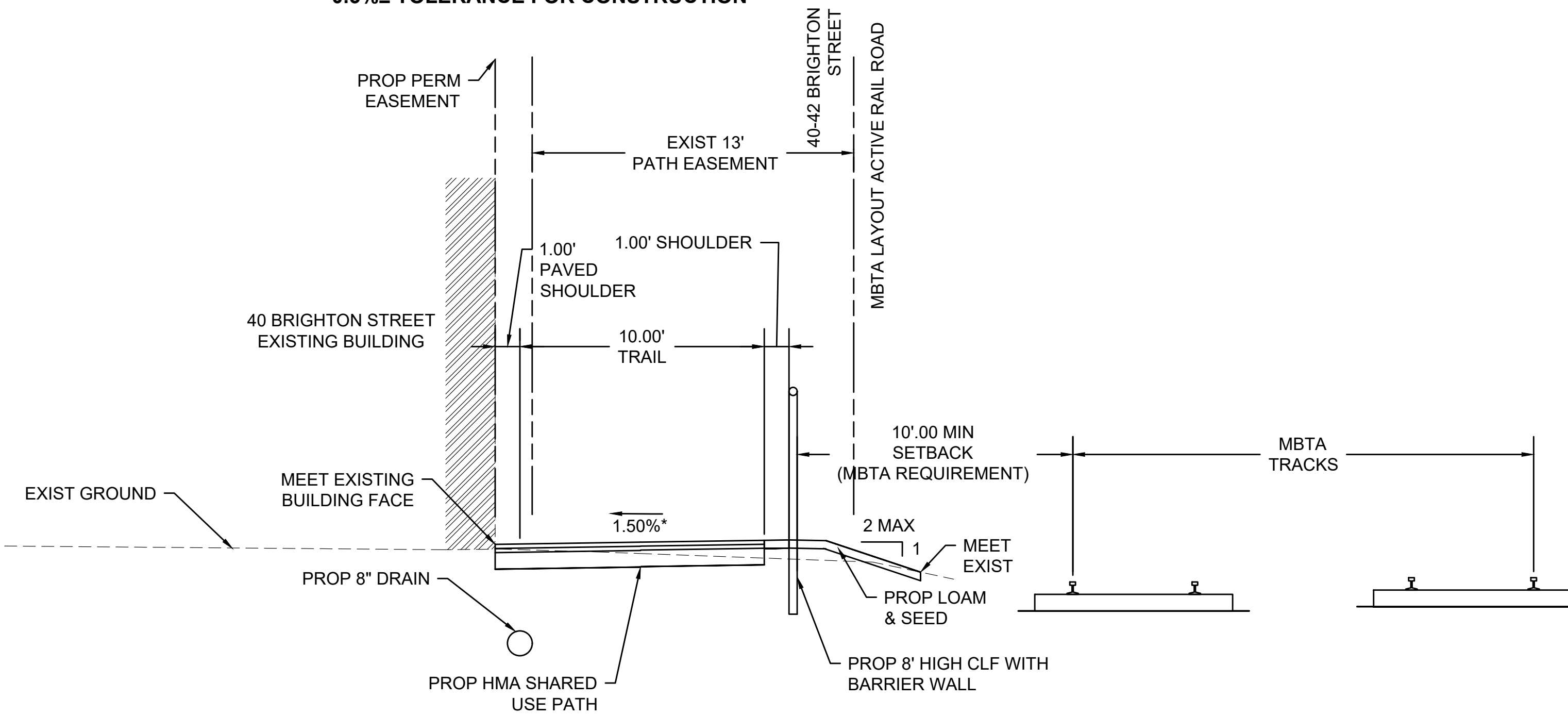
TYPICAL SECTIONS & PAVEMENT NOTES



BELMONT COMMUNITY PATH - 40 BELMONT STREET ABUTTING PARKING

STA 956+89.10 TO 959+64.88

*0.5%± TOLERANCE FOR CONSTRUCTION



BELMONT COMMUNITY PATH - 40 BELMONT STREET ABUTTING BUILDING

STA 956+01.73 TO 956+89.10

*0.5%± TOLERANCE FOR CONSTRUCTION

**PROGRESS
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HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 25

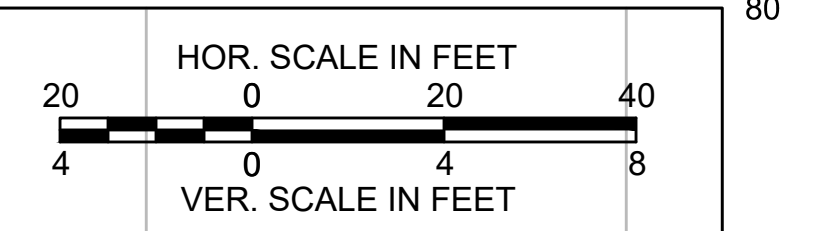
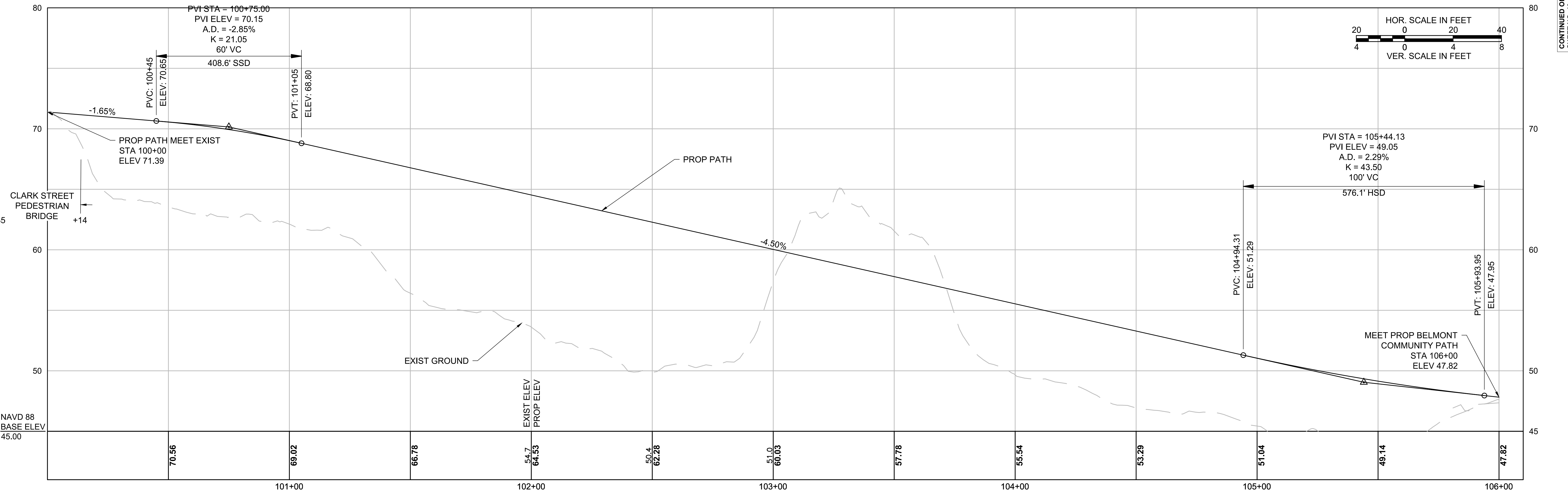
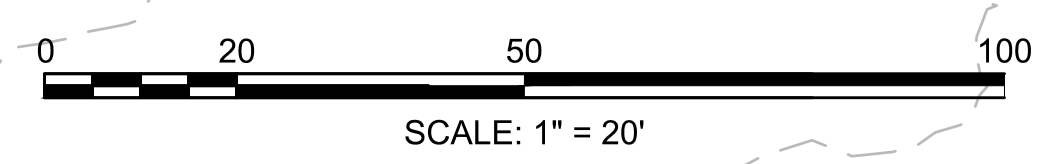
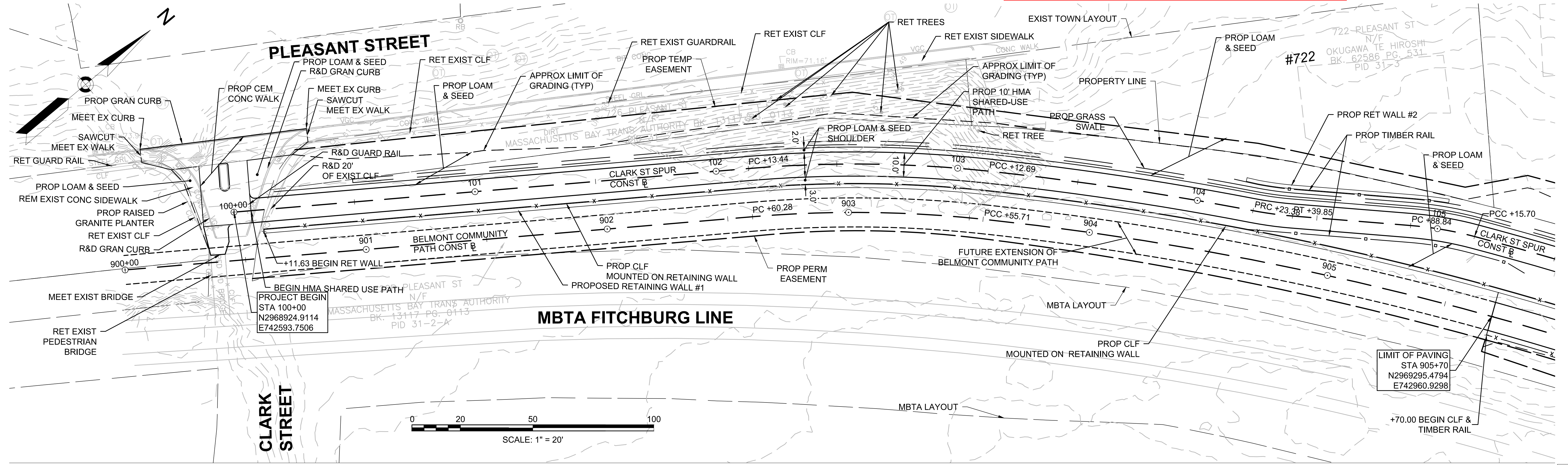
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**BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	9	31

PROJECT FILE NO. 609204

PLAN AND PROFILE



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

HIGHWAY GUARD DETAILS
NONE

TRAFFIC SIGNAL CONDUIT
NONE

WATER SUPPLY ALTERATIONS
NONE

DRAINAGE DETAILS
SEE SHEET 25

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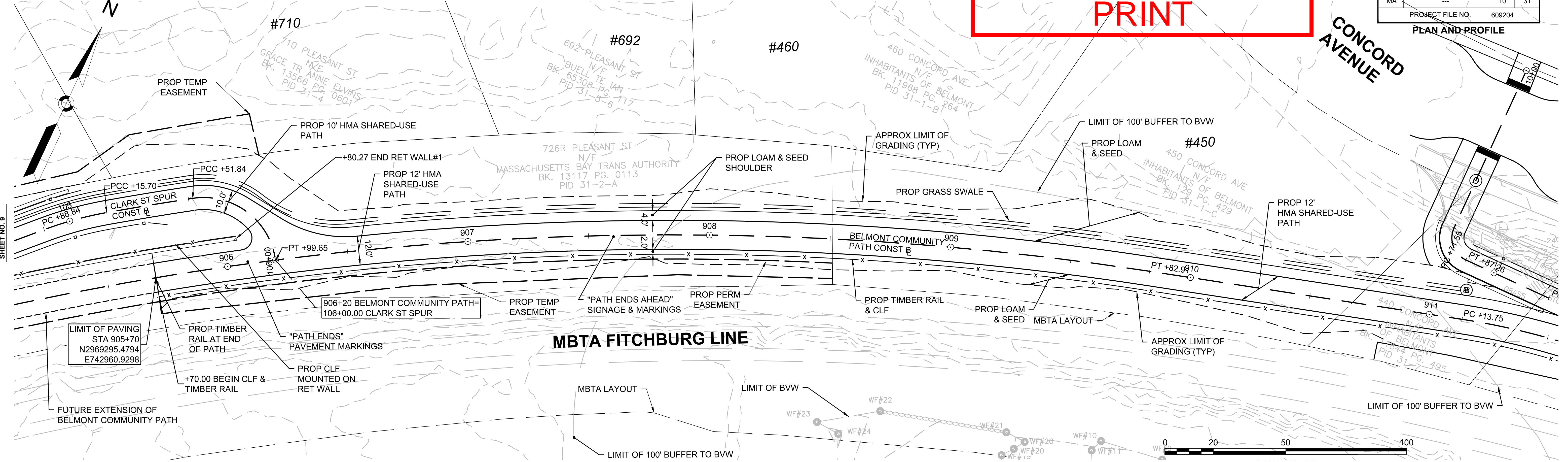
BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT

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MA	---	10	31

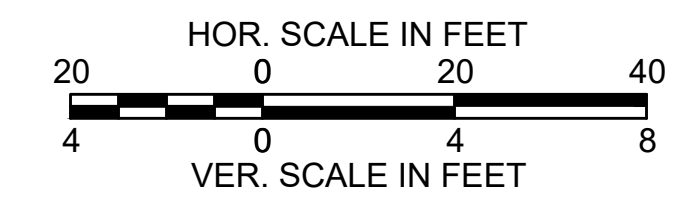
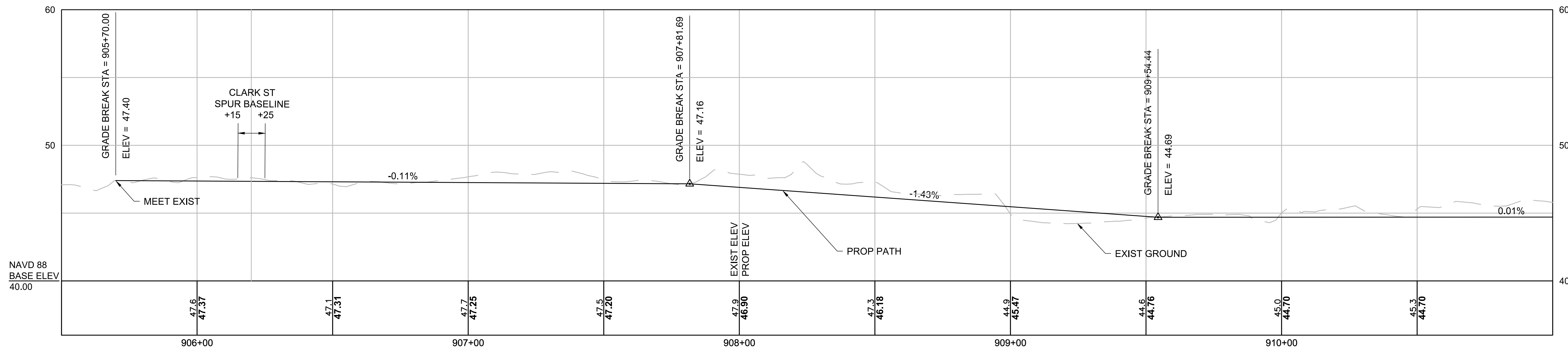
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SHEET NO. 9

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SHEET NO. 11



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 26

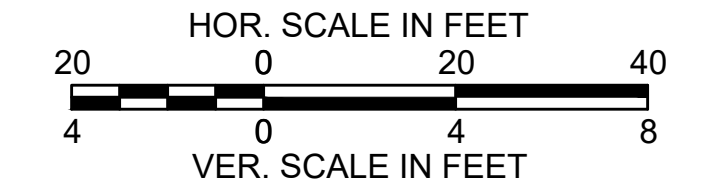
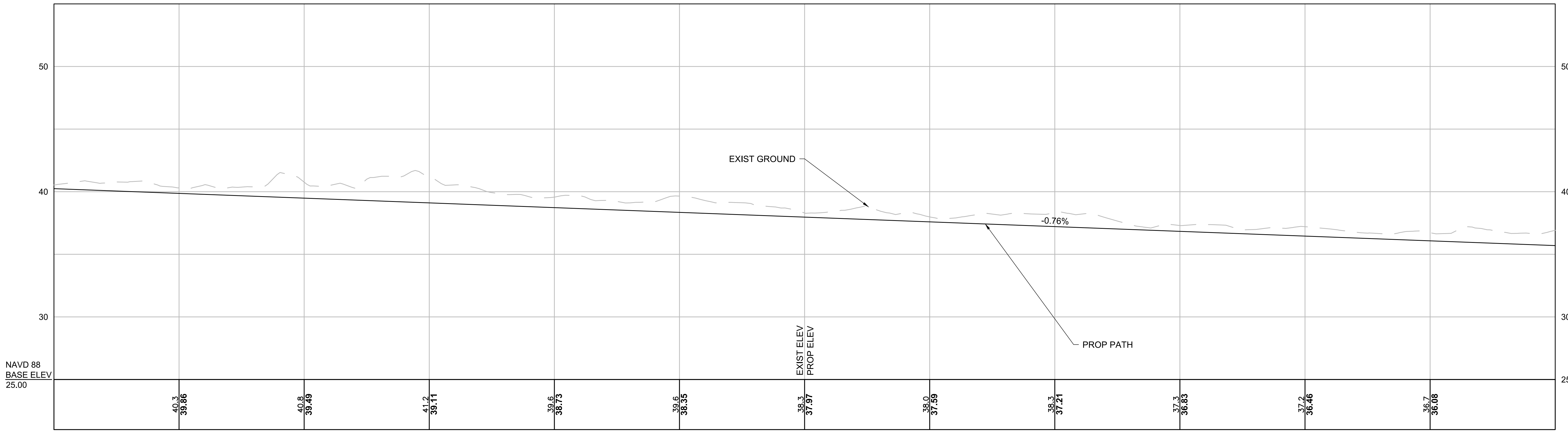
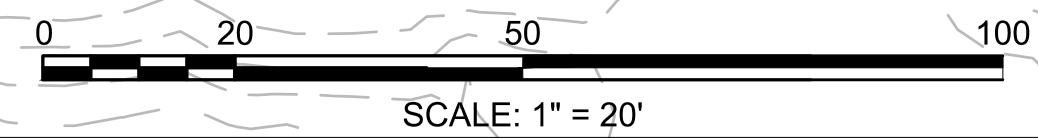
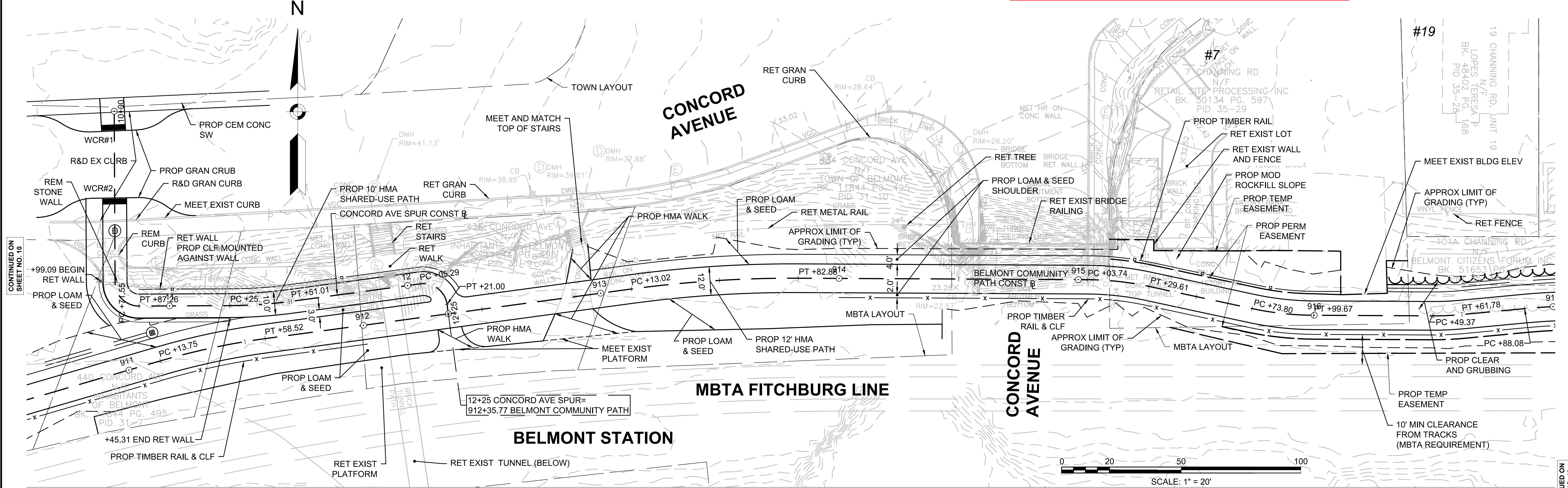
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BELMONT COMMUNITY PATH - PHASE 1 BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	11	31

PROJECT FILE NO. 609204

PLAN AND PROFILE



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HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 26

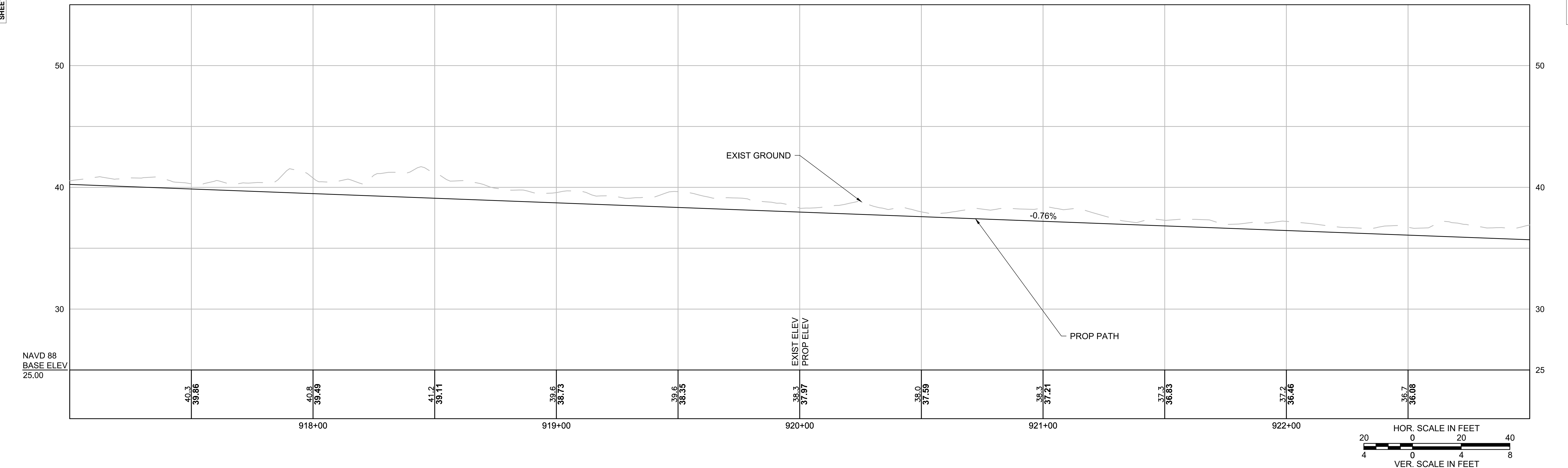
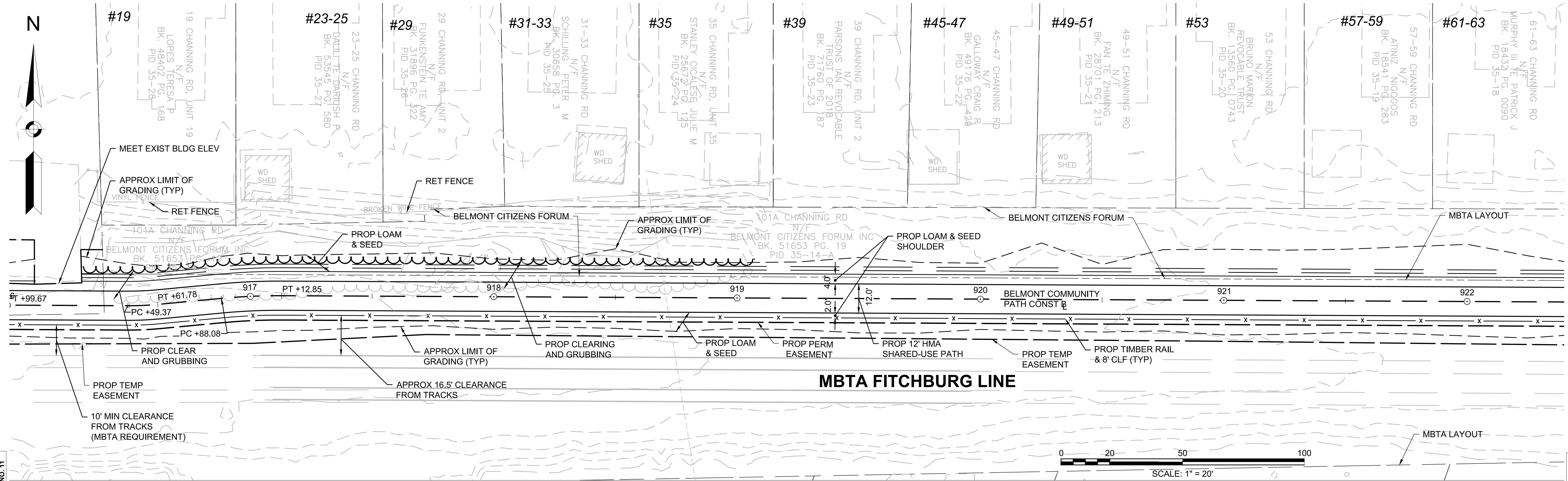
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BELMONT COMMUNITY PATH - PHASE 1 BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	12	31

PROJECT FILE NO. 609204

PLAN AND PROFILE



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CONTINUED ON SHEET NO. 13

609204_HD(CONST-VIEW).DWG

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 27

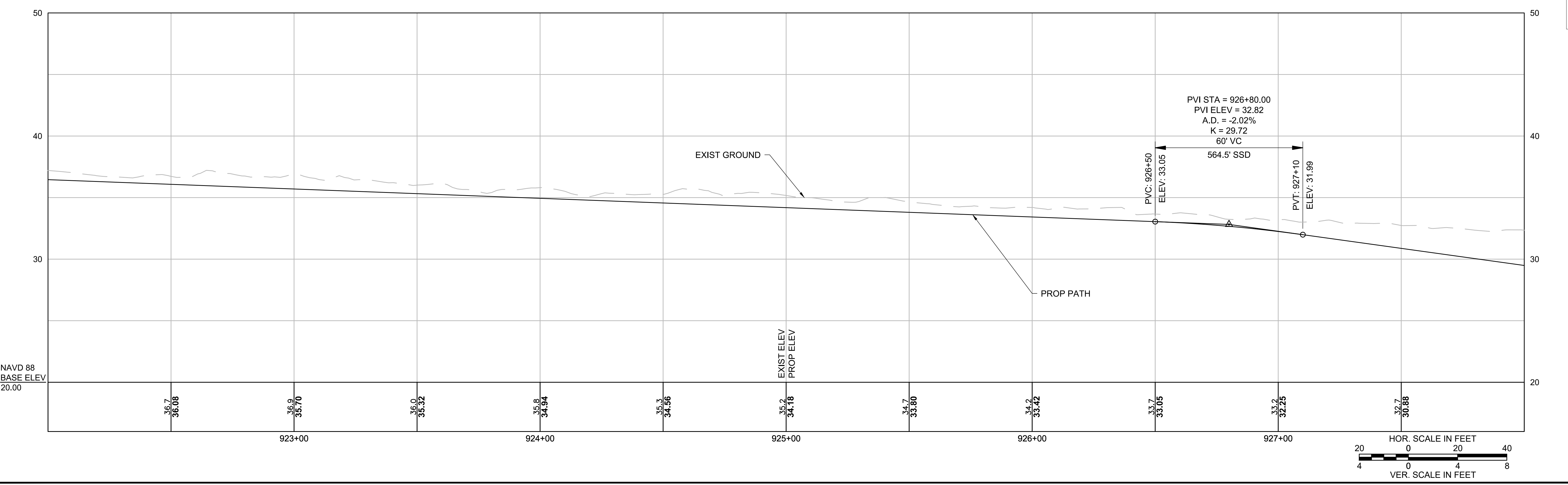
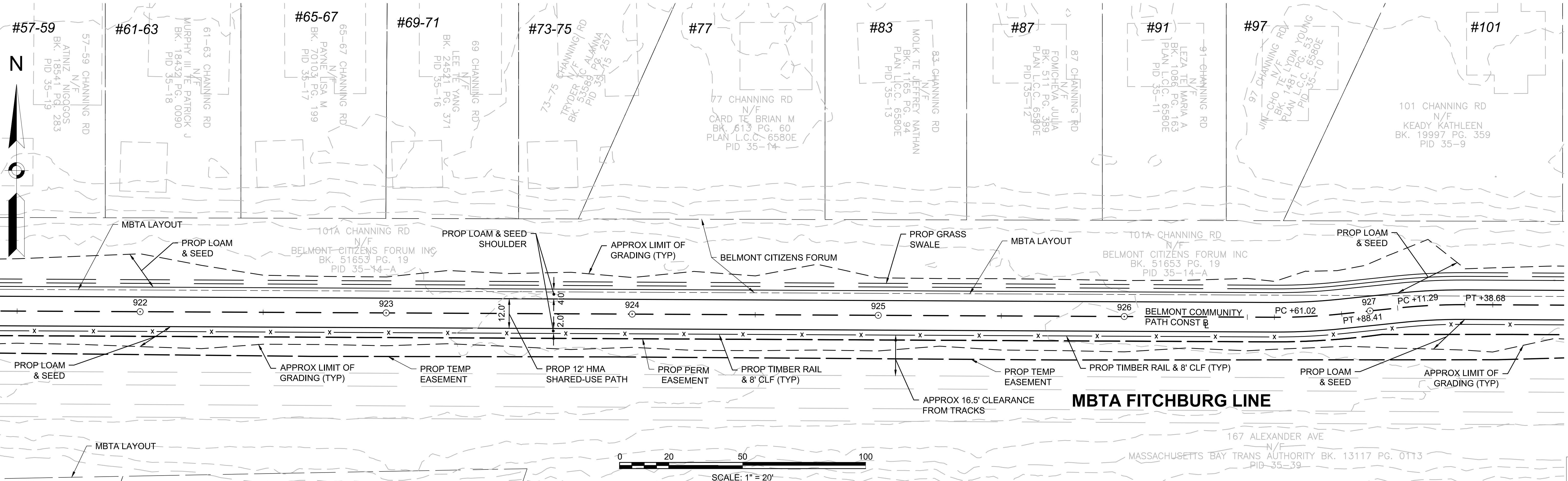
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**BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	13	31

PROJECT FILE NO. 609204

PLAN AND PROFILE



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HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 27

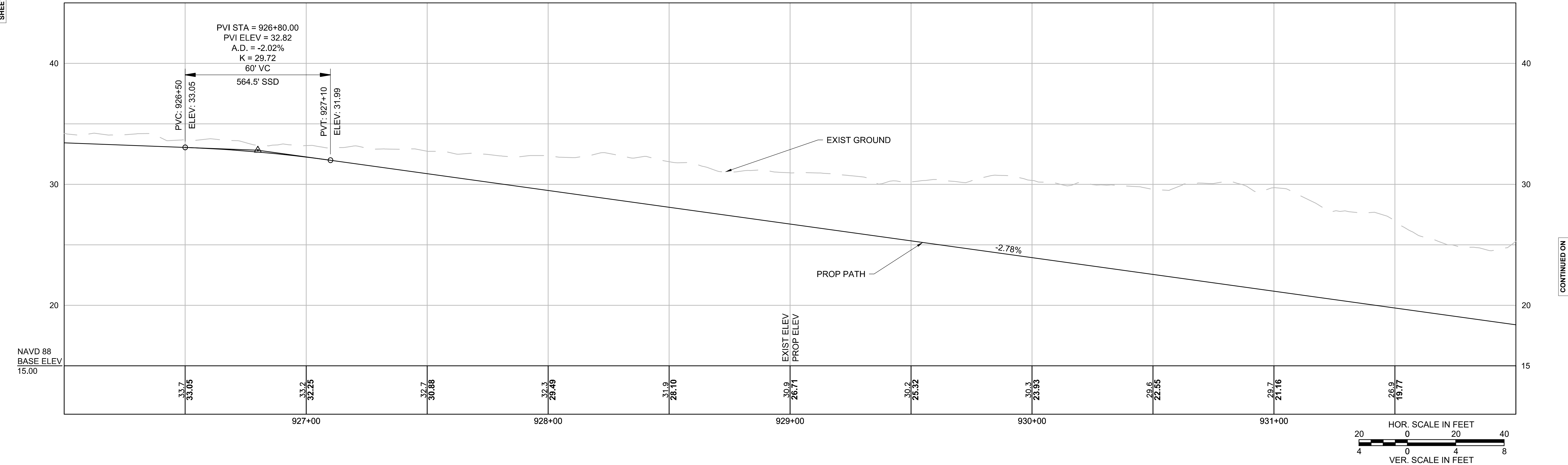
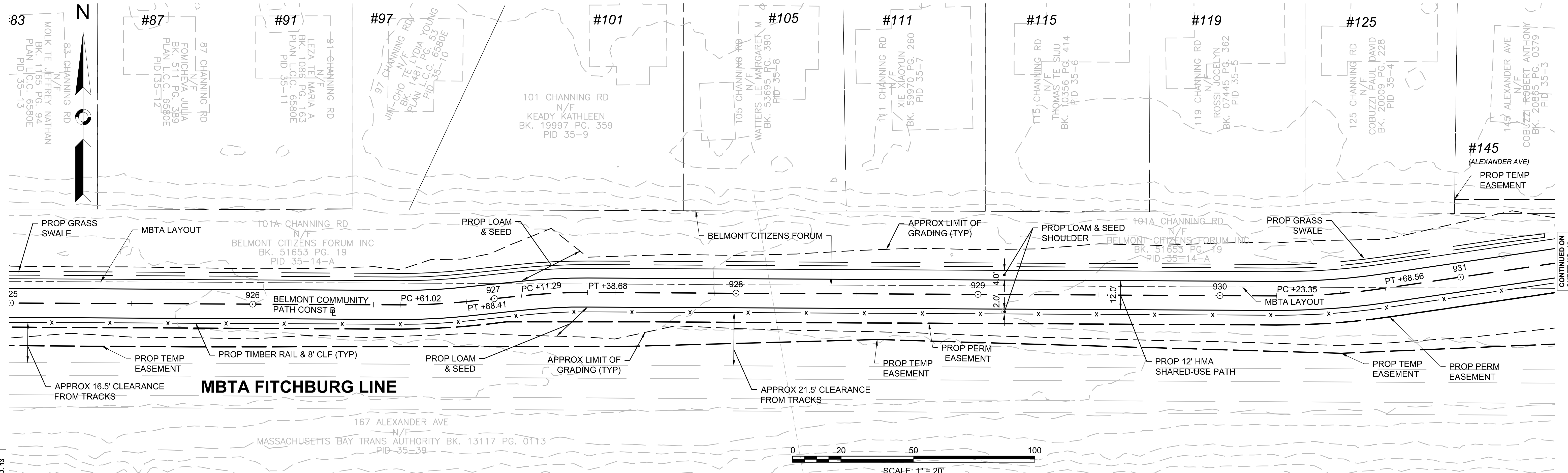
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BELMONT COMMUNITY PATH - PHASE 1 BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	14	31

PROJECT FILE NO. 609204

PLAN AND PROFILE



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CONTINUED ON SHEET NO. 15

CONTINUED ON SHEET NO. 16

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HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

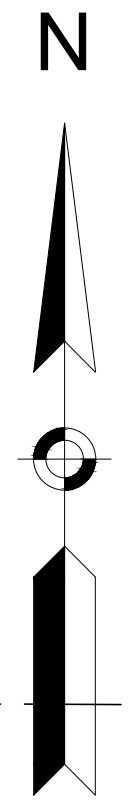
SEE SHEET 28

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	15	31

PROJECT FILE NO. 609204
PLAN AND PROFILE



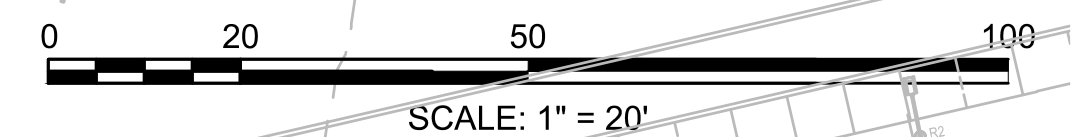
CHANNING ROAD

ALEXANDER AVENUE

MBTA FITCHBURG LINE

BELMONT MIDDLE AND HIGH SCHOOL

SEE SHEETS 16 & 23 FOR PROFILES



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CONTINUED ON SHEET NO. 17

609204_HD(CONST-VIEW).DWG Plotted on 11/11/2014

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

SEE SHEET 28

PROGRESS PRINT

**BELMONT
COMMUNITY PATH - PHASE 1
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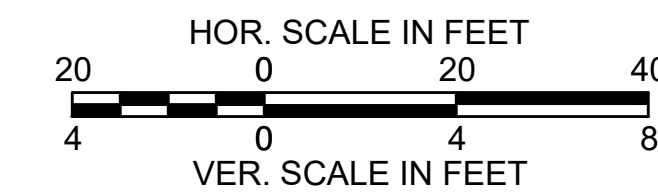
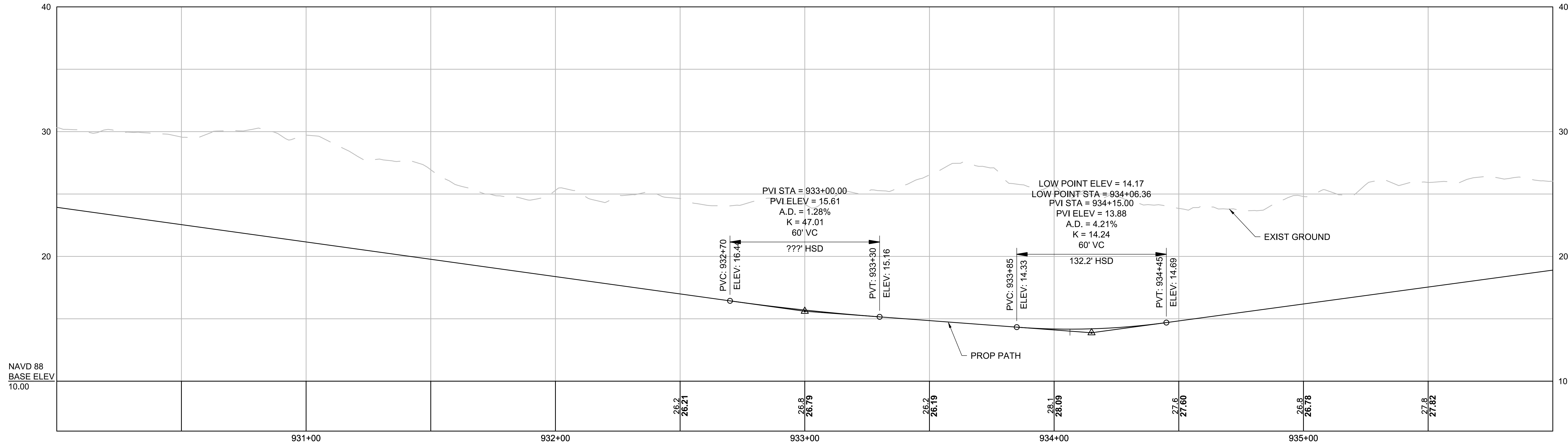
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MA	---	16	31

PROJECT FILE NO. 609204

PLAN AND PROFILE

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SHEET NO. 14

CONTINUED ON
SHEET NO. 17



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HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

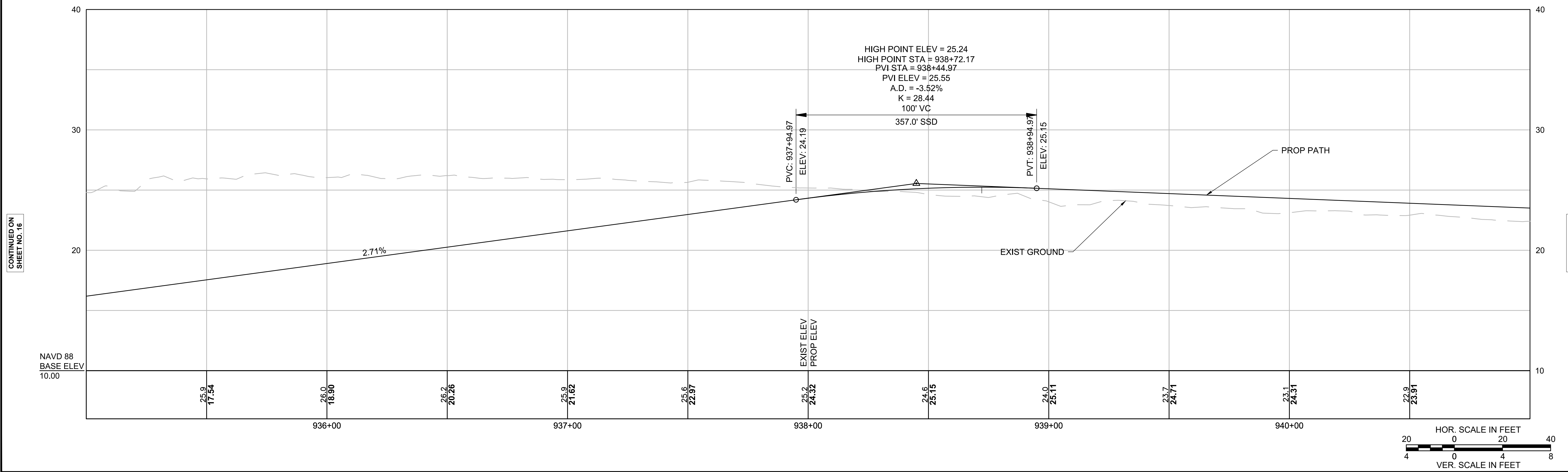
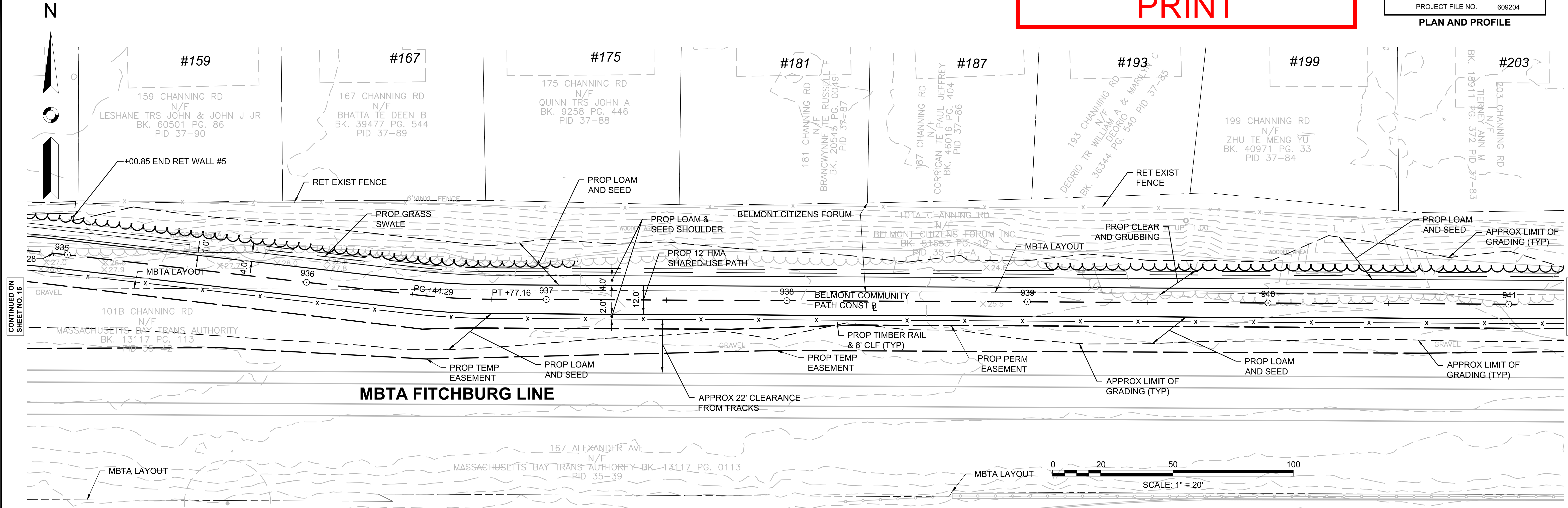
SEE SHEET 29

PROGRESS
PRINT

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	17	31
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PLAN AND PROFILE



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SHEET NO. 15

CONTINUED ON
SHEET NO. 18

CONTINUED ON
SHEET NO. 16

CONTINUED ON
SHEET NO. 18

609204_HD(CONST-VIEW).DWG

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

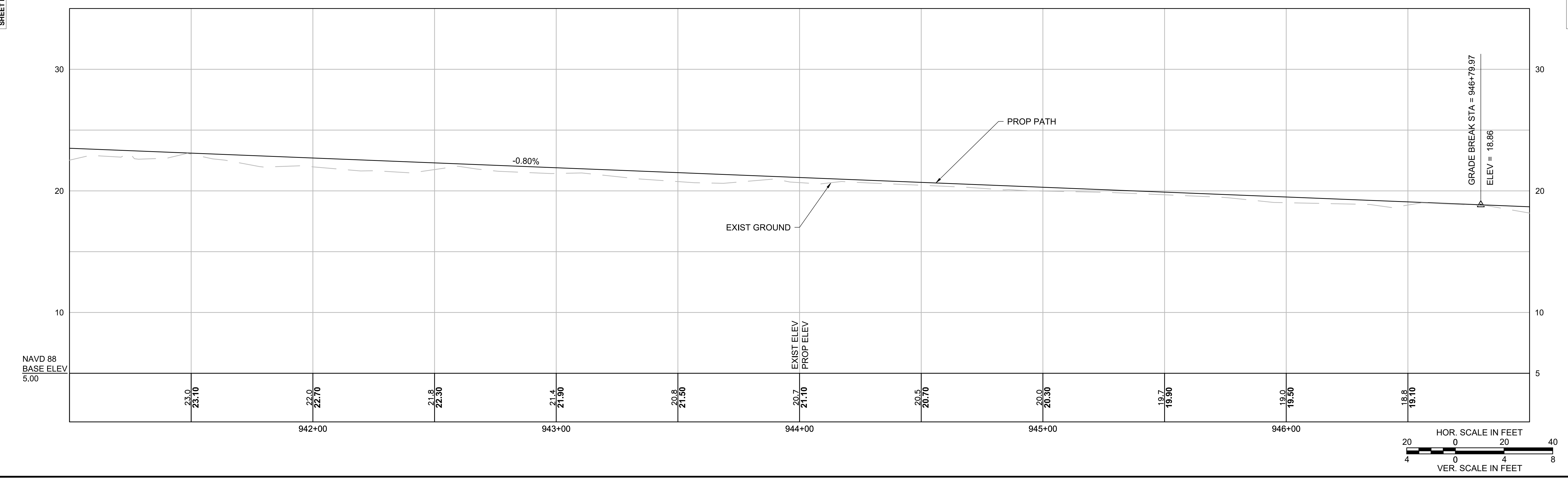
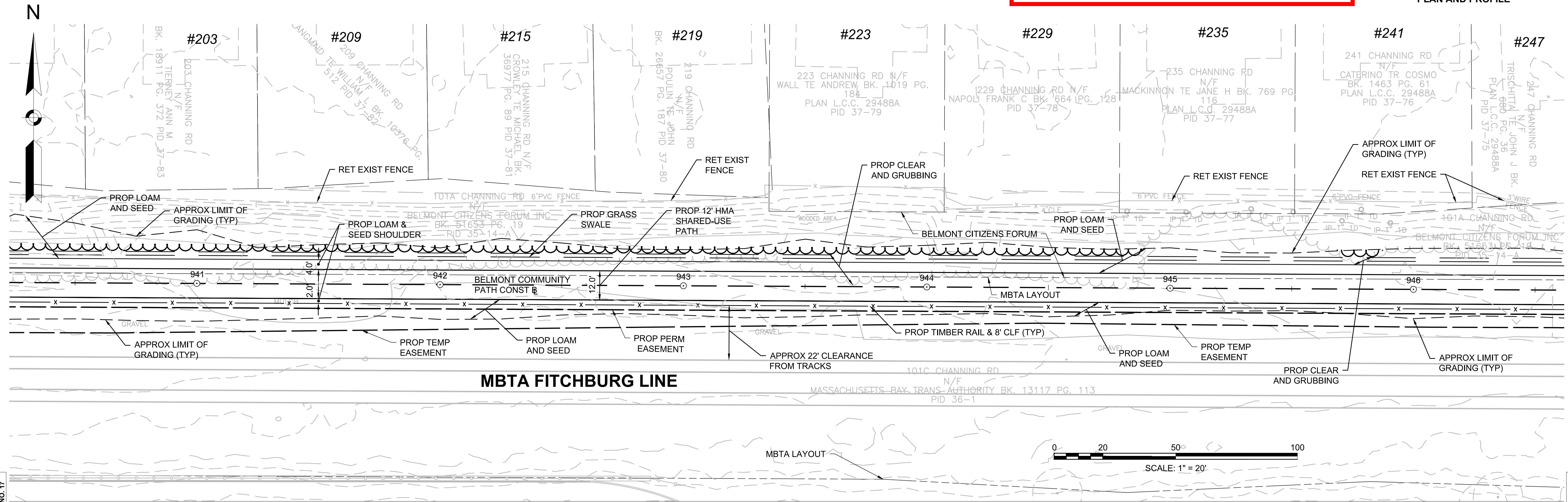
SEE SHEET 29

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	18	31

PROJECT FILE NO. 609204
PLAN AND PROFILE

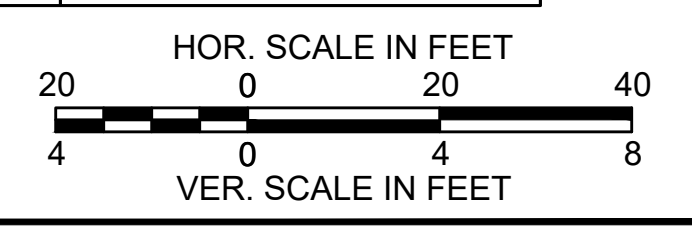


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CONTINUED ON SHEET NO. 19

609204_HD(CONST-VIEW).DWG



HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

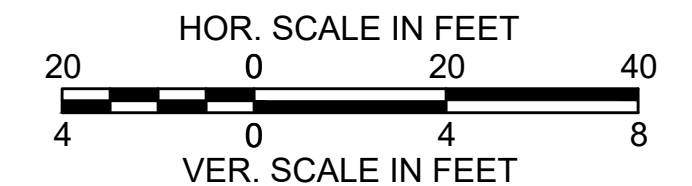
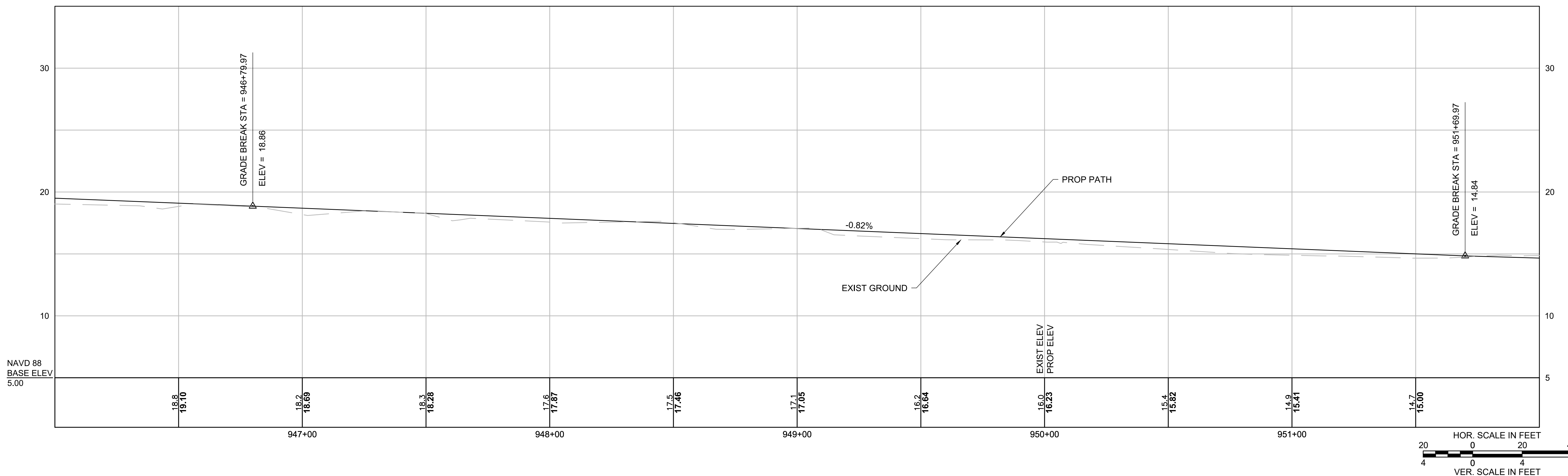
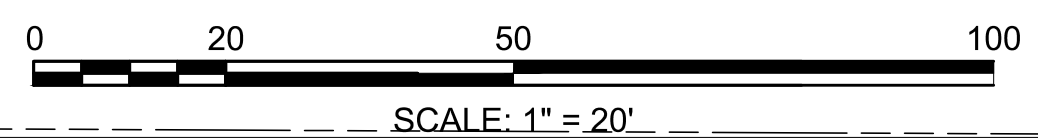
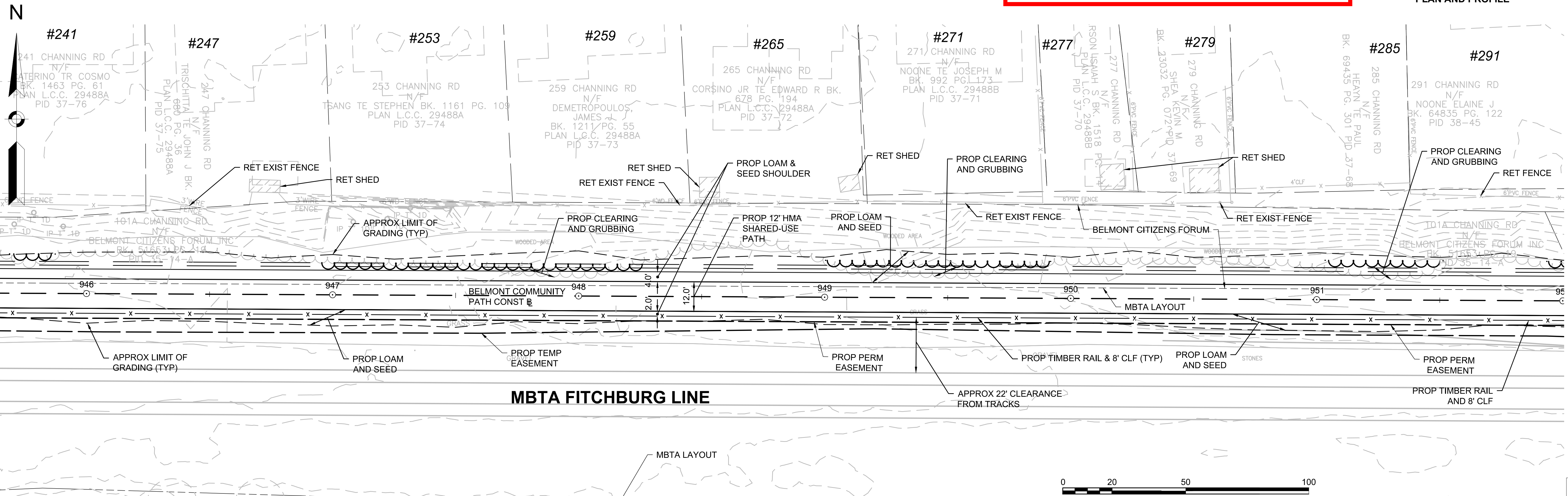
SEE SHEET 30

PROGRESS PRINT

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	19	31

PROJECT FILE NO. 609204
PLAN AND PROFILE



Nitech - Q:\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(CONST-view).dwg

CONTINUED ON SHEET NO. 18

CONTINUED ON SHEET NO. 20

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

PROGRESS PRINT

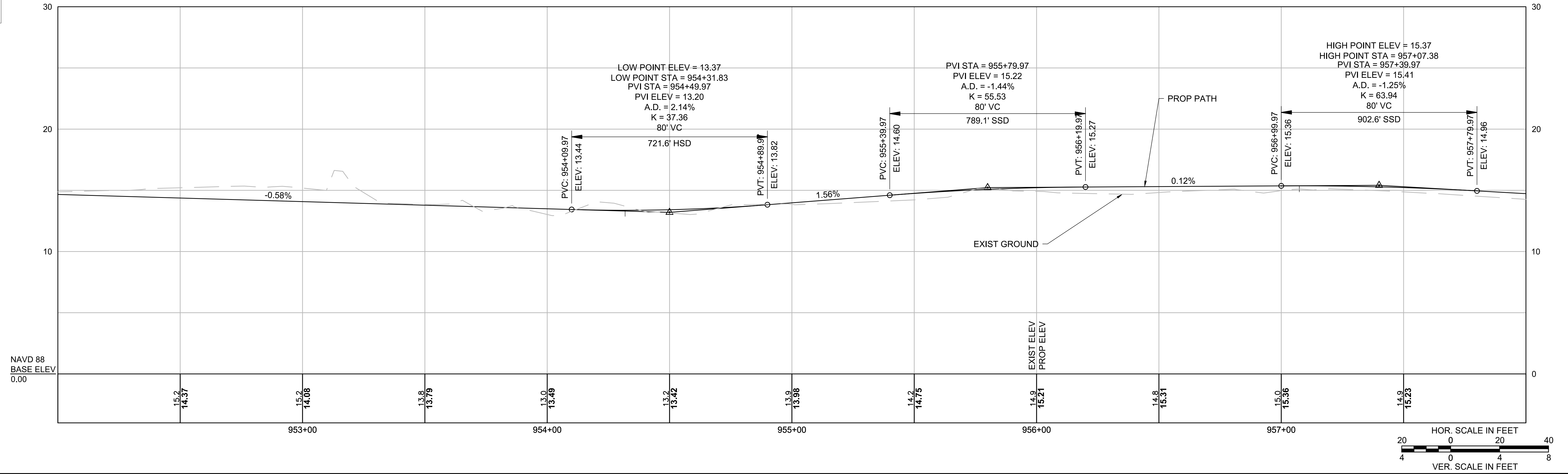
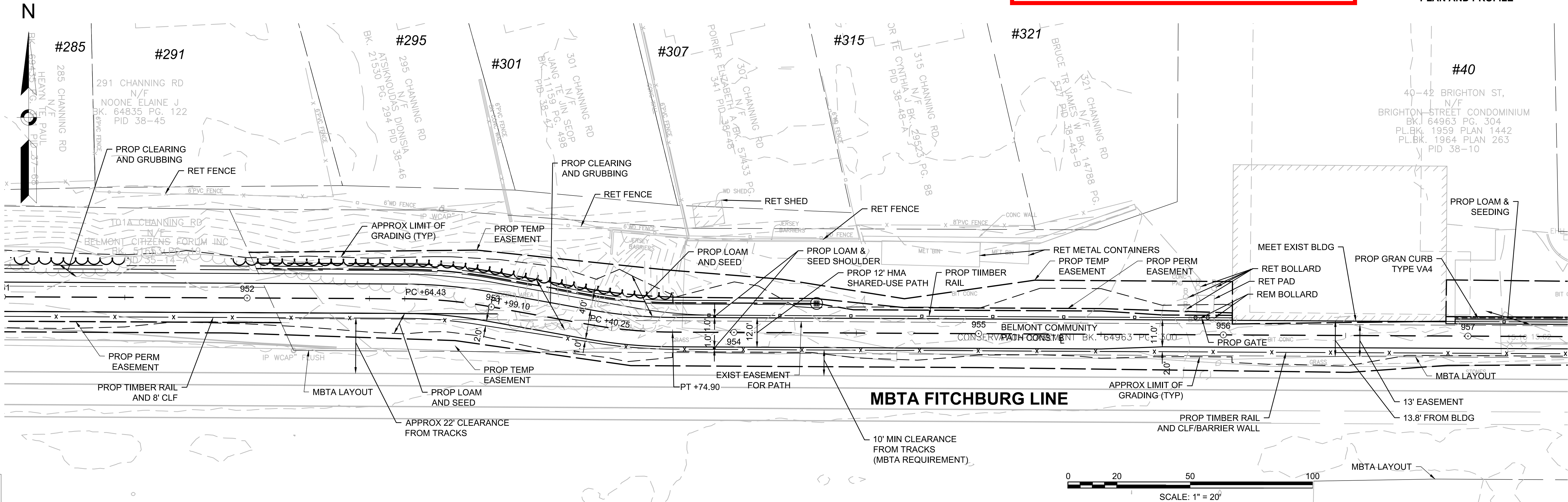
**BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	20	31

PROJECT FILE NO. 609204

PLAN AND PROFILE

HIGHWAY GUARD DETAILS NONE
 TRAFFIC SIGNAL CONDUIT NONE
 WATER SUPPLY ALTERATIONS NONE
 DRAINAGE DETAILS SEE SHEET 30



Nitech - Q:\13548 BelmontComPath\Transportation\CAD\609204\Project Drawing Data\DWG\609204_HD(CONST-view).dwg

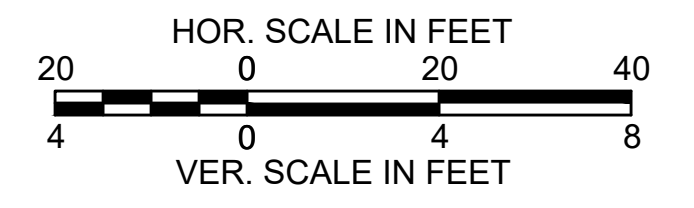
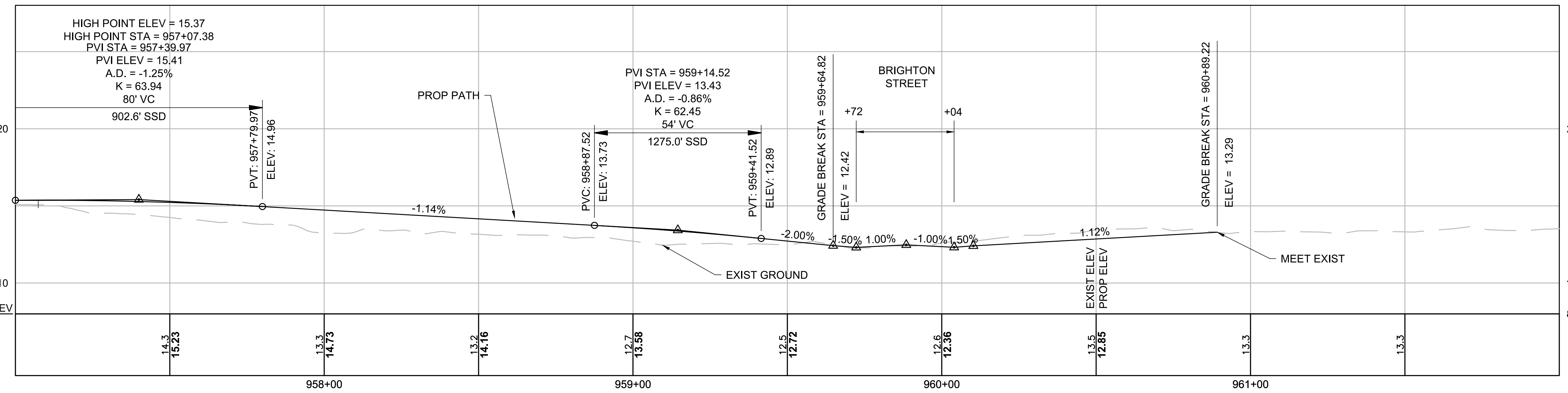
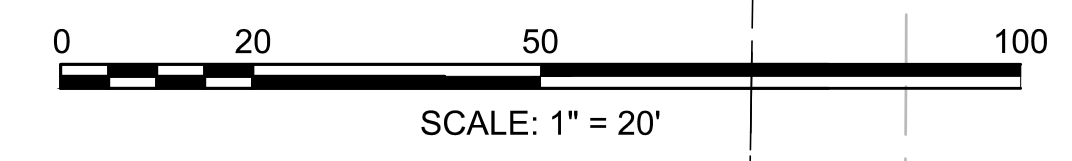
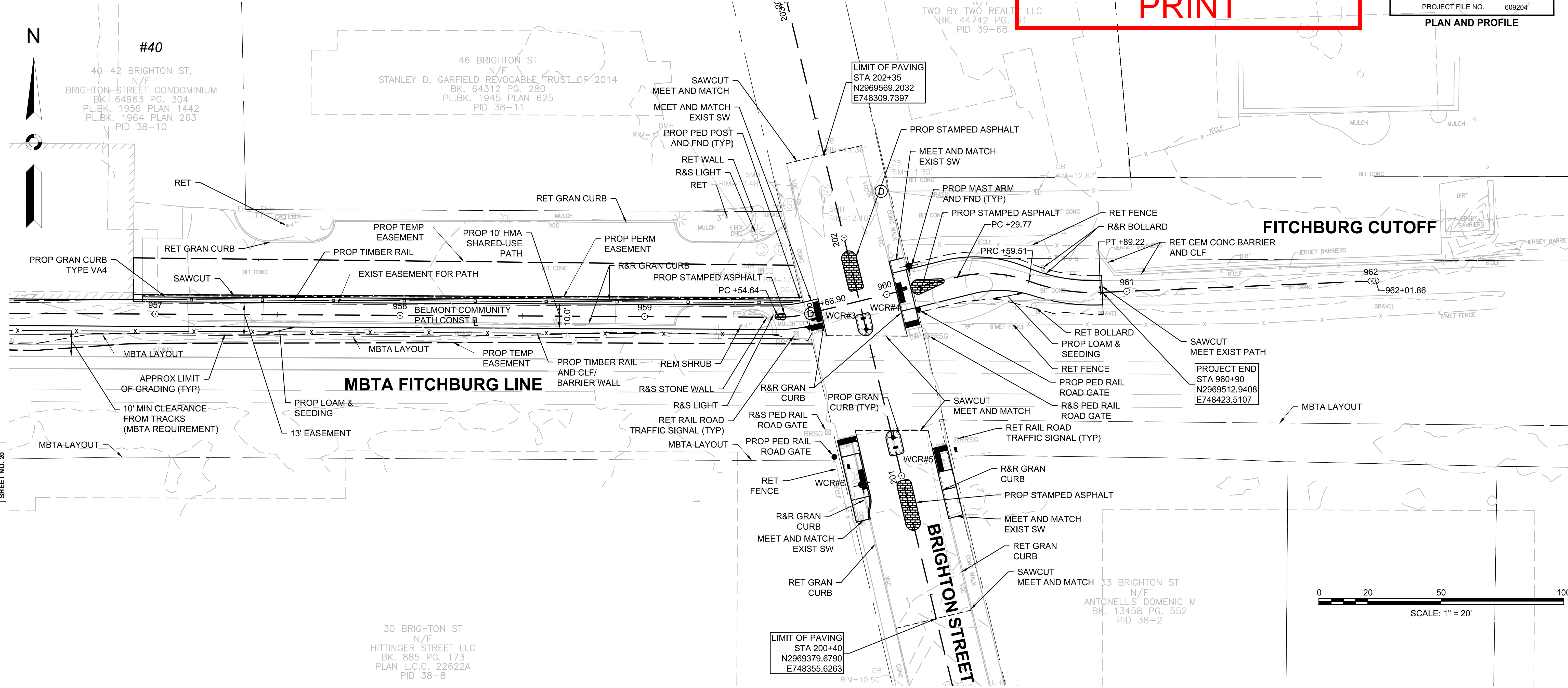
CONTINUED ON SHEET NO. 19

CONTINUED ON SHEET NO. 21

609204_HD(CONST-VIEW).DWG Plotted on 11/11/2024 10:00:00 AM

**PROGRESS
PRINT**

HIGHWAY GUARD DETAILS NONE
TRAFFIC SIGNAL CONDUIT NONE
WATER SUPPLY ALTERATIONS NONE
DRAINAGE DETAILS SEE SHEET 31



Nitech - Q:\13548 BelmontComPath\Transportation\CAD\609204_HD(CONST-view).dwg

609204_HD(CONST-VIEW).DWG

HIGHWAY GUARD DETAILS

NONE

TRAFFIC SIGNAL CONDUIT

NONE

WATER SUPPLY ALTERATIONS

NONE

DRAINAGE DETAILS

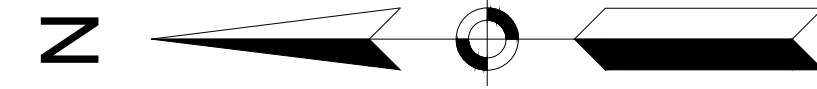
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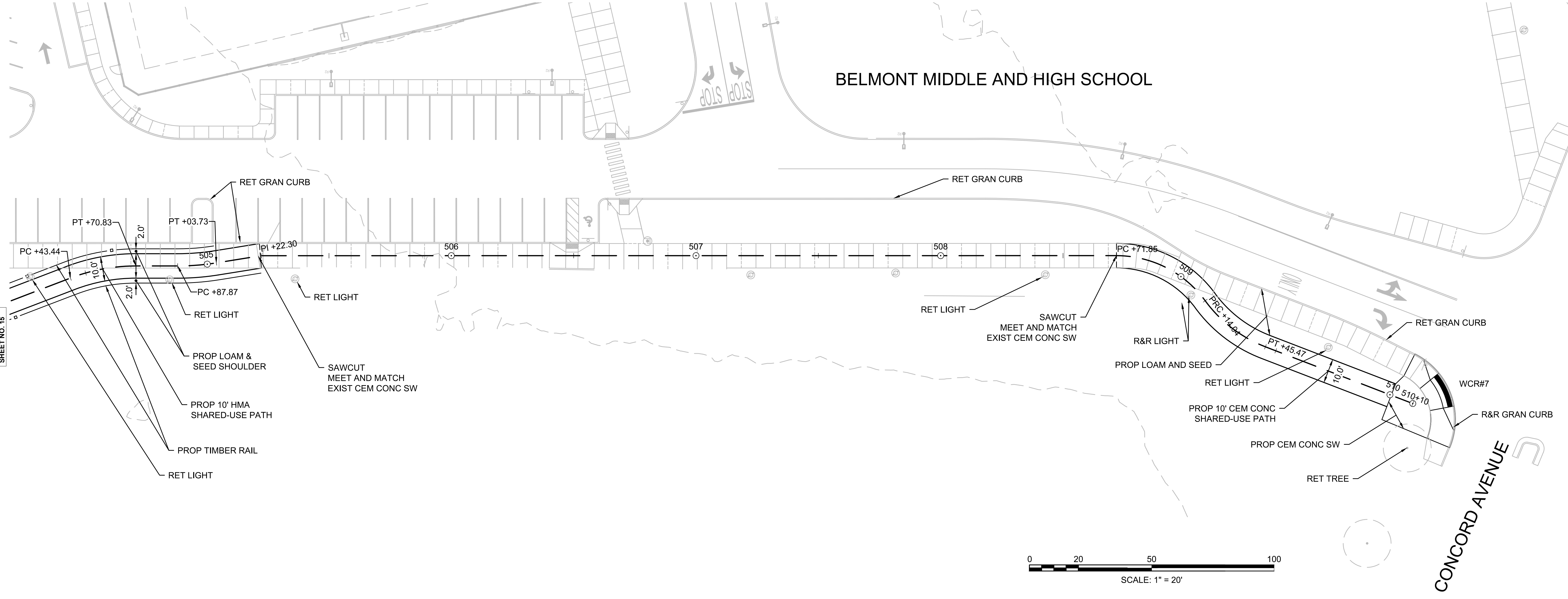
**BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	22	31

PROJECT FILE NO. 609204
PLAN AND PROFILE



BELMONT MIDDLE AND HIGH SCHOOL



CONTINUED ON
SHEET NO. 15

Nitech - Q:\13548 BelmontComPath\Transportation\CAD\609204_HD(CONST-view).dwg

SEE SHEETS 23 FOR PROFILES

609204_HD(CONST-VIEW).DWG

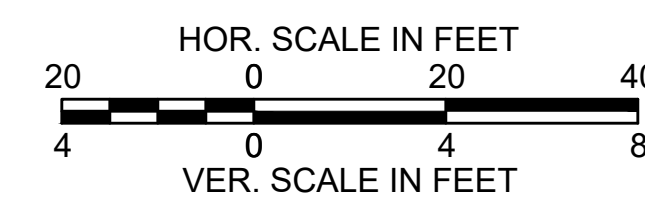
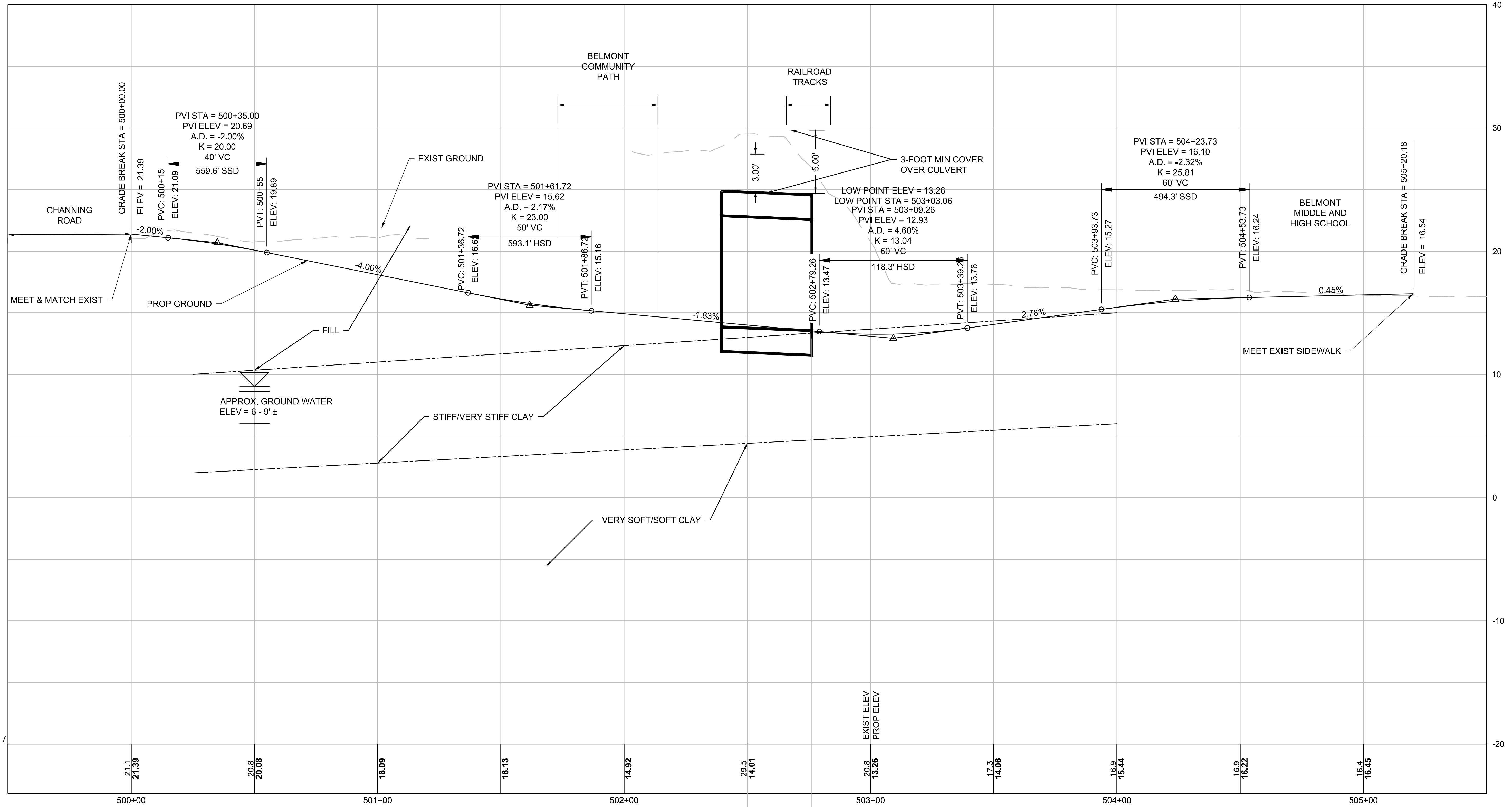
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**BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT**

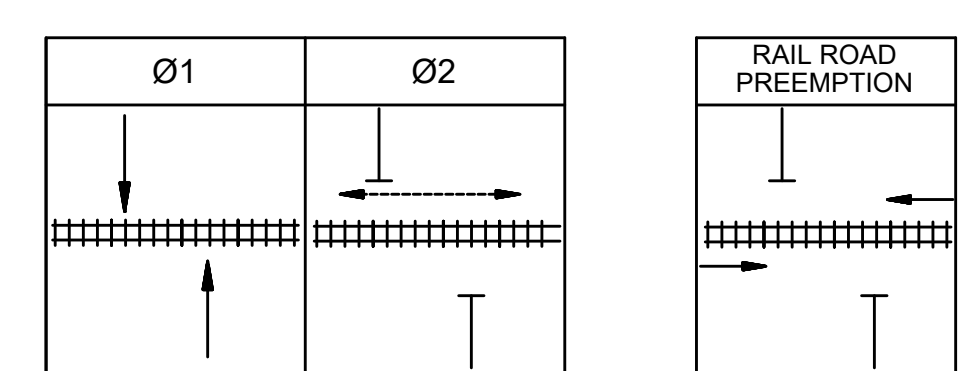
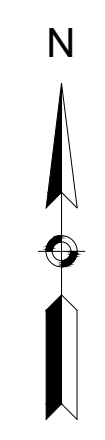
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	23	31

PROJECT FILE NO. 609204
**PROFILE ALEXANDER AVENUE
UNDERPASS**

ALEXANDER AVENUE CONSTRUCTION BASELINE



**PROGRESS
PRINT**



- RAILROAD 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/DONT' WALK).
 - RAILROAD FLASHING WARNING SIGNALS ACTIVATE IMMEDIATELY AFTER THE TRAFFIC SIGNAL CLEARANCE INTERVAL.

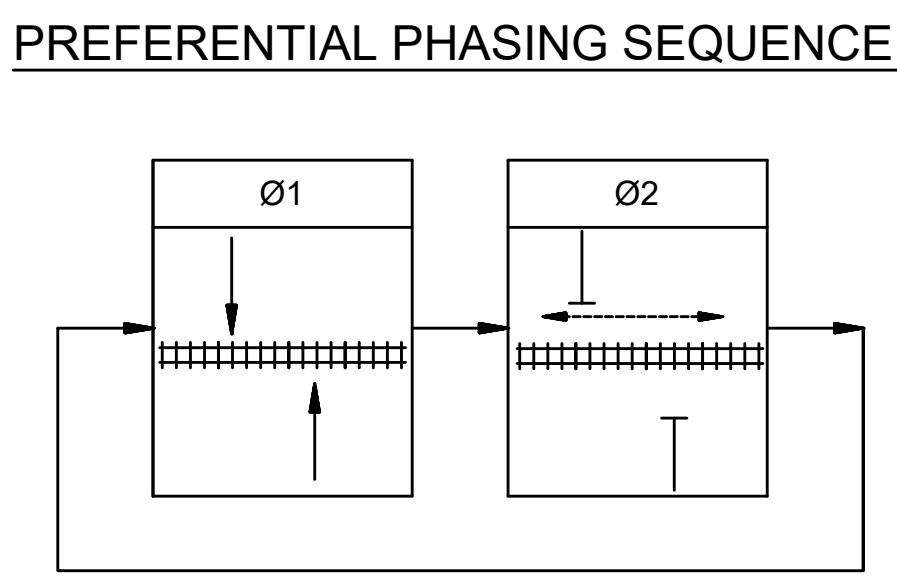
SEQUENCE AND TIMING FOR FULL ACTUATED CONTROL (ISOLATED)

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

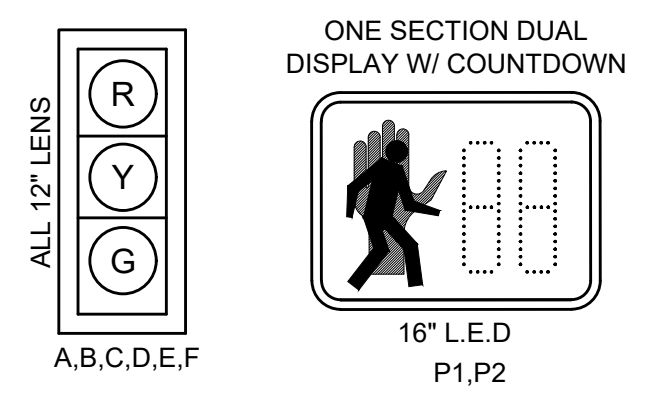
TIMING IN SECONDS		EMERGENCY ONLY
MINIMUM GREEN (INITIAL)	10	
PASSAGE TIME (VEHICLE)	3	-
MAXIMUM 1	40	-
MAXIMUM 2	40	-
YELLOW CLEARANCE	3	-
RED CLEARANCE (VEHICLE & BICYCLE)		2
WALK (W)		7
PEDESTRIAN CLEARANCE		5 4
RECALL	MAX	OFF
MEMORY	NON-LOCKING	LOCKING

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	-



PROPOSED SIGNAL INDICATION



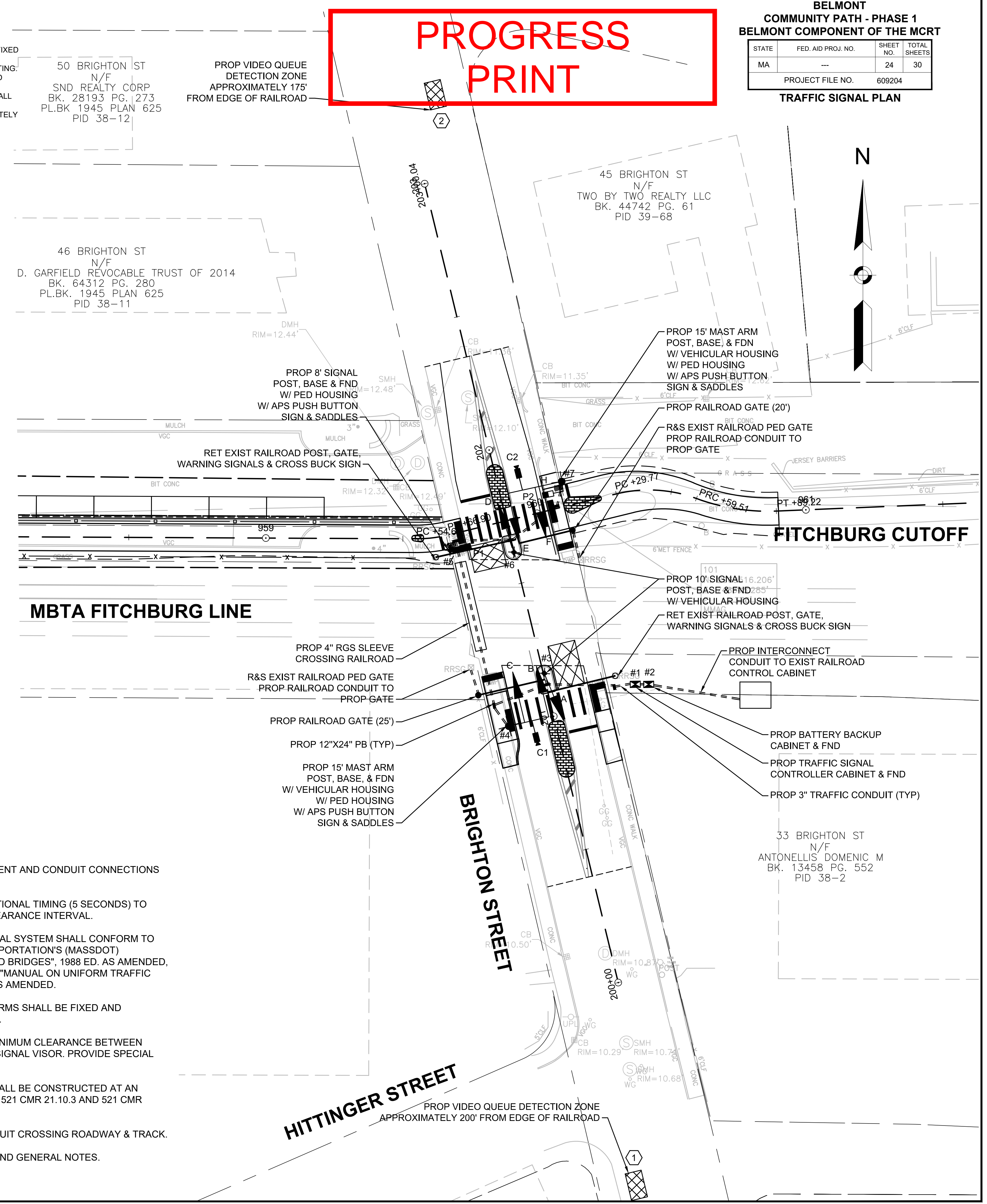
- NOTES:**
- ALL SIGNALS SHALL HAVE CUTAWAY TUNNEL VISORS.
 - ALL SIGNALS SHALL BE 12" LED WITH 5" NON-LOUVERED BACKPLATES.
 - ALL BACKPLATES SHALL HAVE A 3" RETROREFLECTIVE BORDER.

PAY ITEM	QUANTITY	ITEM
816.01	1	TS2, TYPE 2 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)
2	VIDEO DETECTION SYSTEM (1 CAMERA)	
811.32	6	12" X 24" PULL BOX (MASSDOT)
XXXX	1	20' RAILROAD GATE W/POST & FND
	1	25' RAILROAD GATE W/POST & FND

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 DETAIL ON SHEET XX FOR ALL SIGNAL CONDUIT CROSSING ROADWAY & TRACK.
- SEE SHEETS 2 FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.



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609204_HD (BORDER SHEET).DWG

PROGRESS PRINT

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

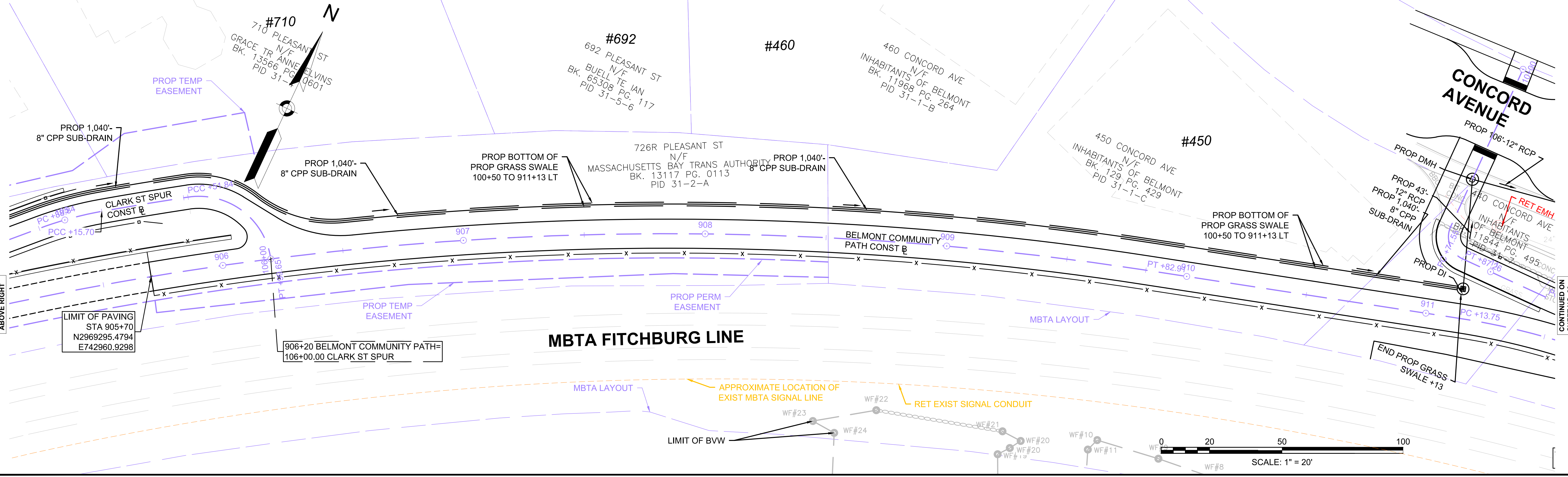
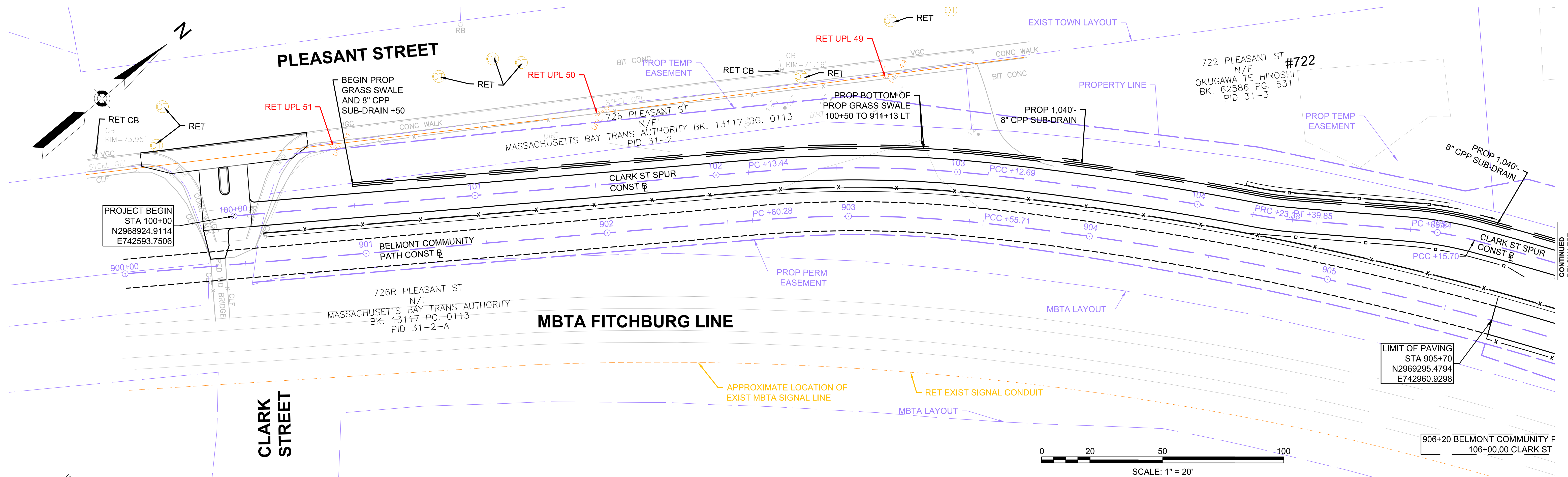
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	25	31

PROJECT FILE NO. 609204

DRAINAGE & UTILITY PLANS

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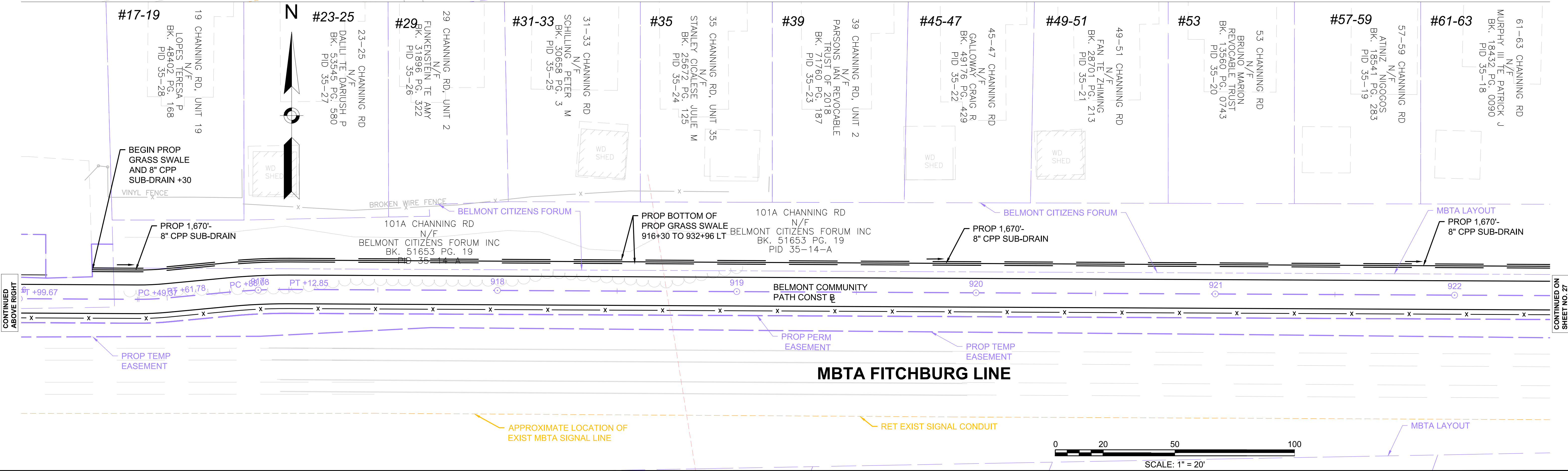
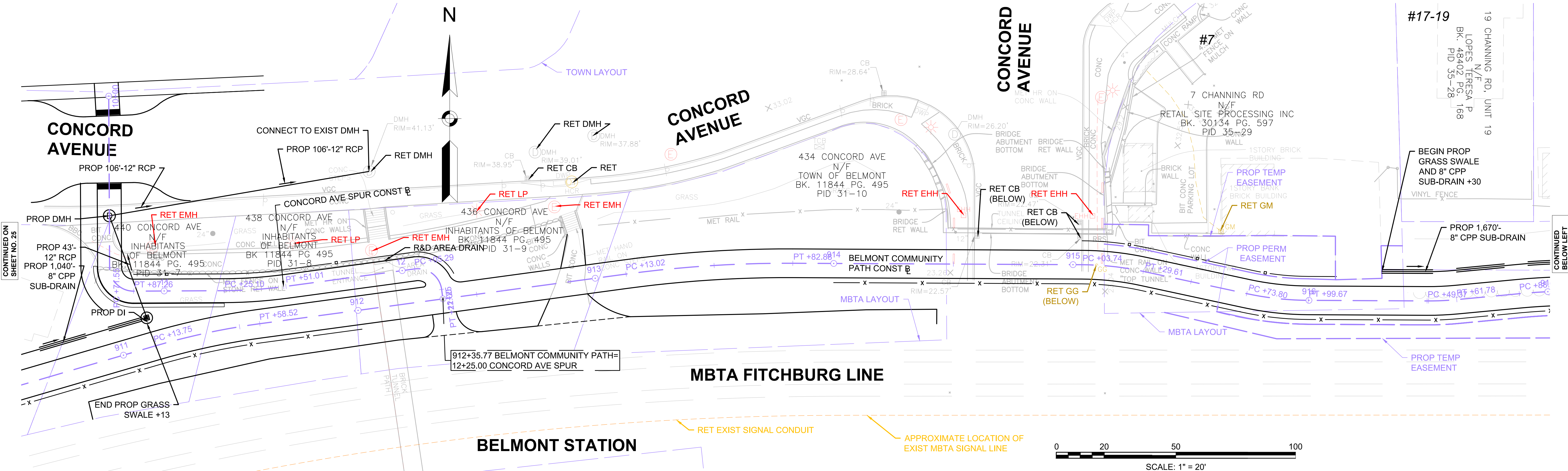


PROGRESS PRINT

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	26	31
PROJECT FILE NO.		609204	

DRAINAGE & UTILITY PLANS



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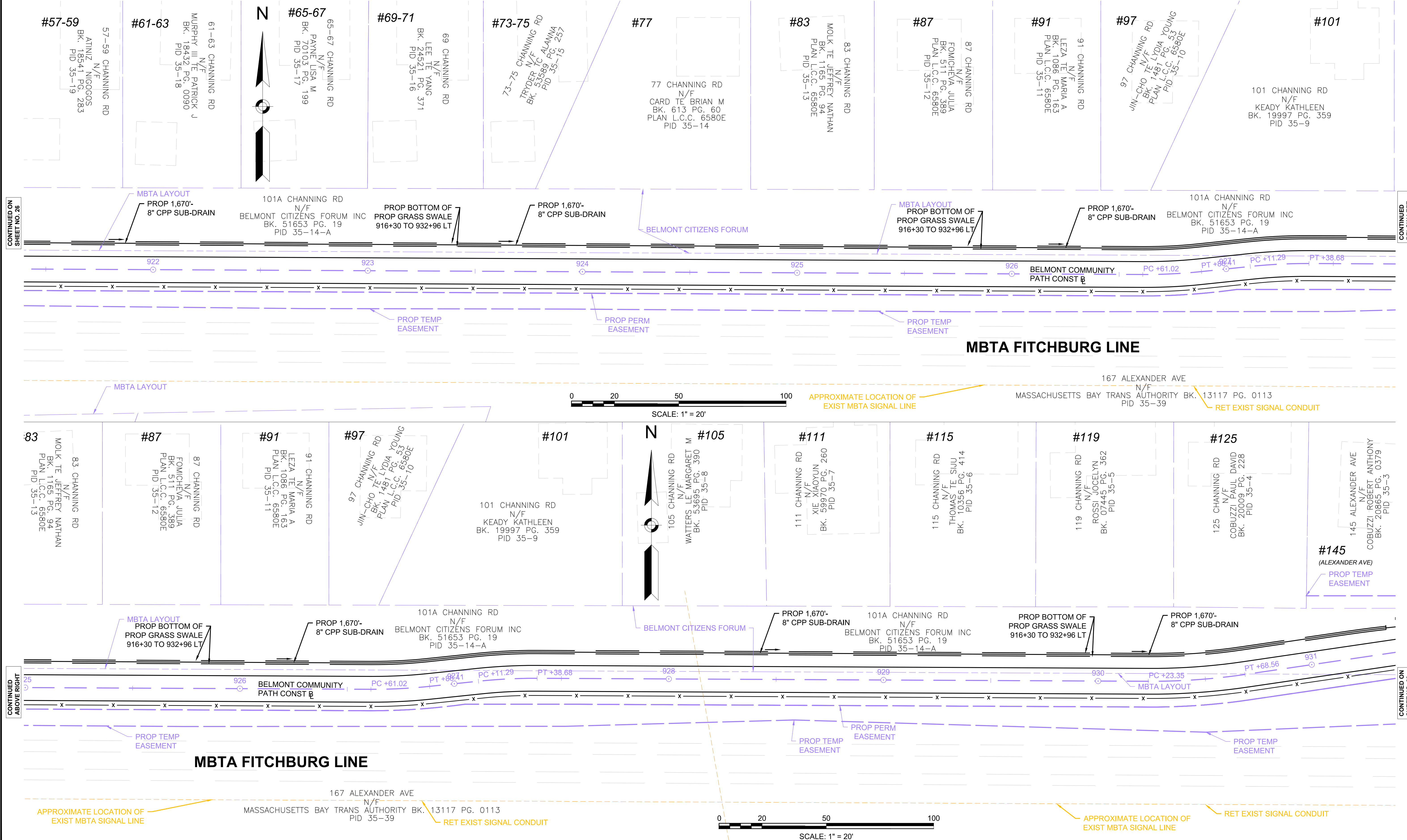
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PROGRESS PRINT

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

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	27	31
PROJECT FILE NO. 609204			

DRAINAGE & UTILITY PLANS



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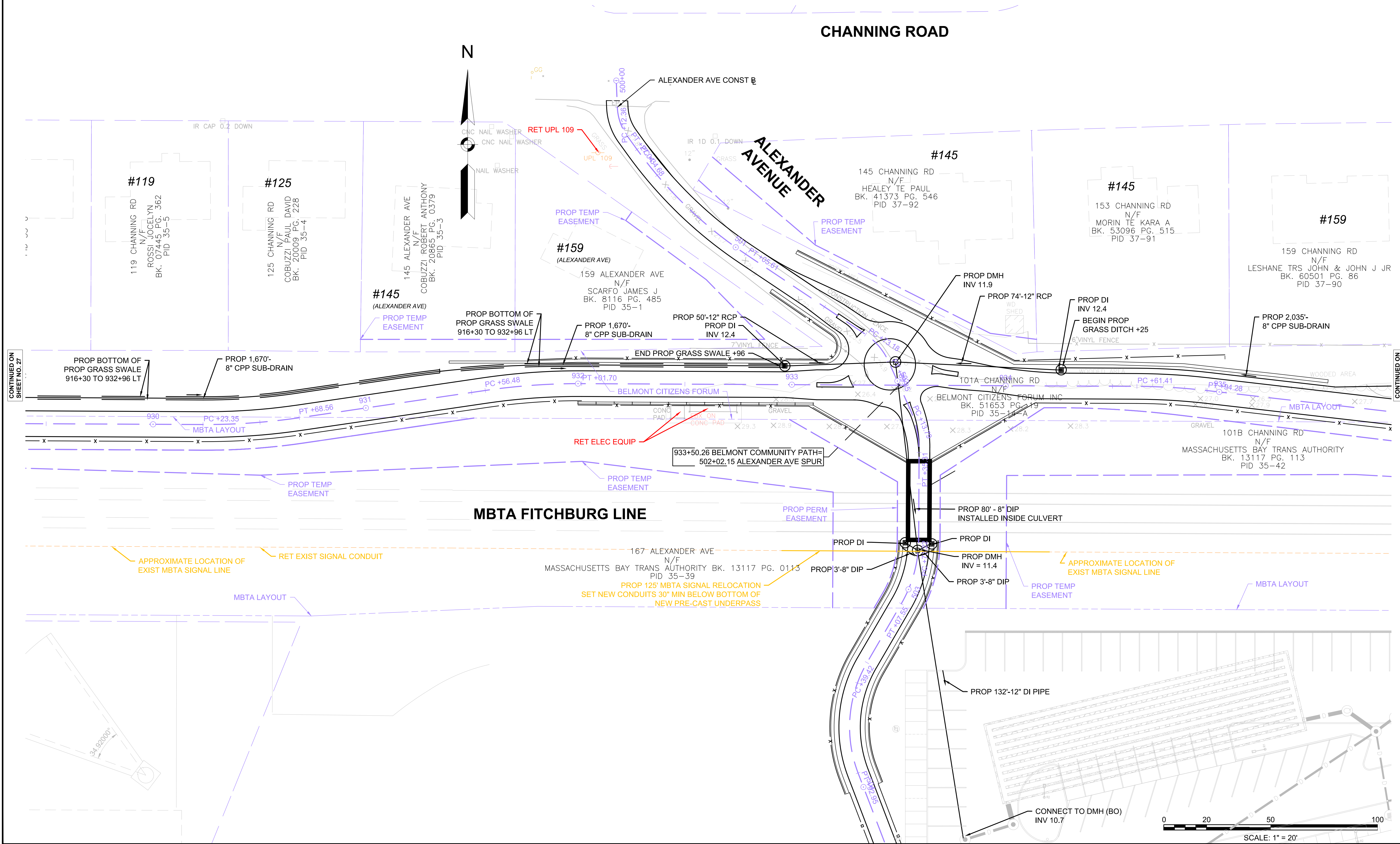
**BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	28	31
PROJECT FILE NO. 609204			

DRAINAGE & UTILITY PLANS

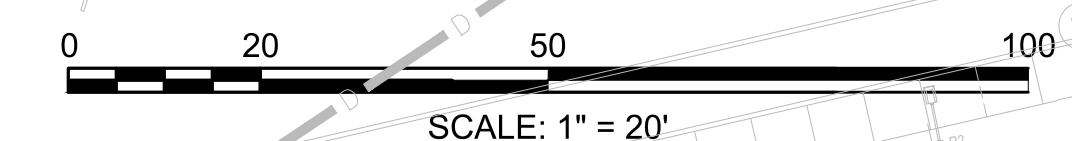
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SHEET NO. 27

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SHEET NO. 29



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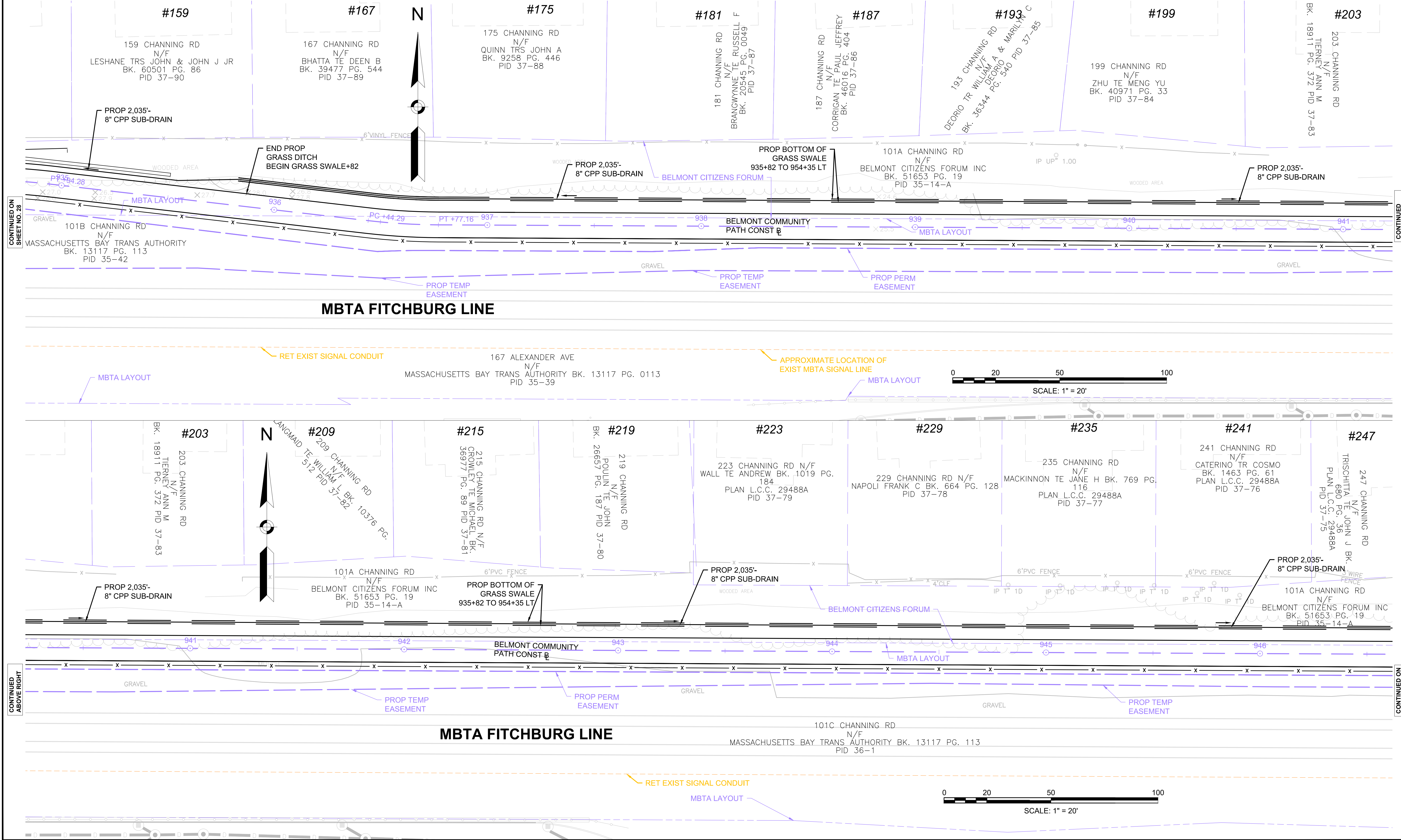
BELMONT COMMUNITY PATH - PHASE 1 BELMONT COMPONENT OF THE MCRT

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	29	31
PROJECT FILE NO.		609204	

DRAINAGE & UTILITY PLANS

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SHEET NO. 28

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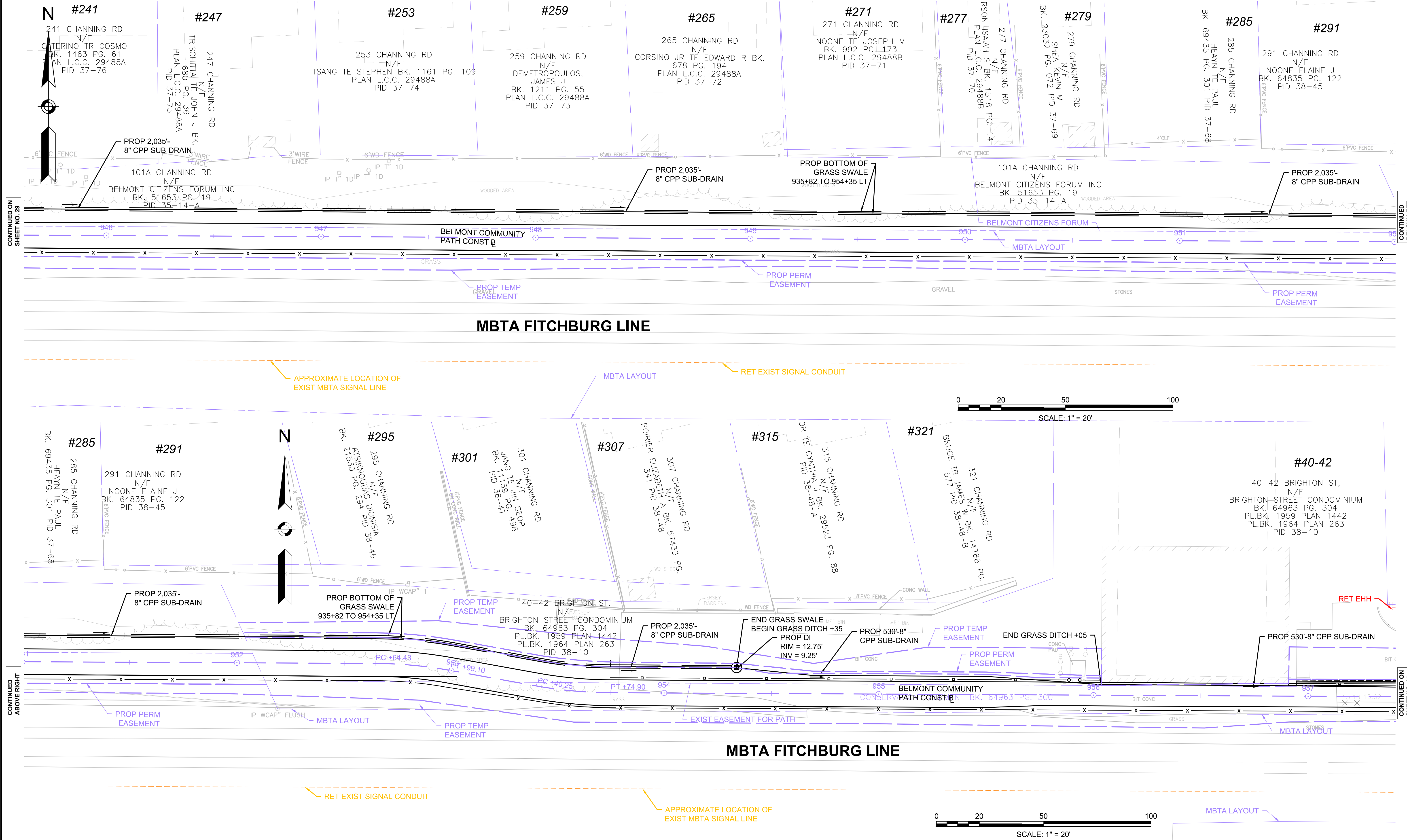
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**BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	30	31
PROJECT FILE NO. 609204			

DRAINAGE & UTILITY PLANS



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SHEET NO. 29

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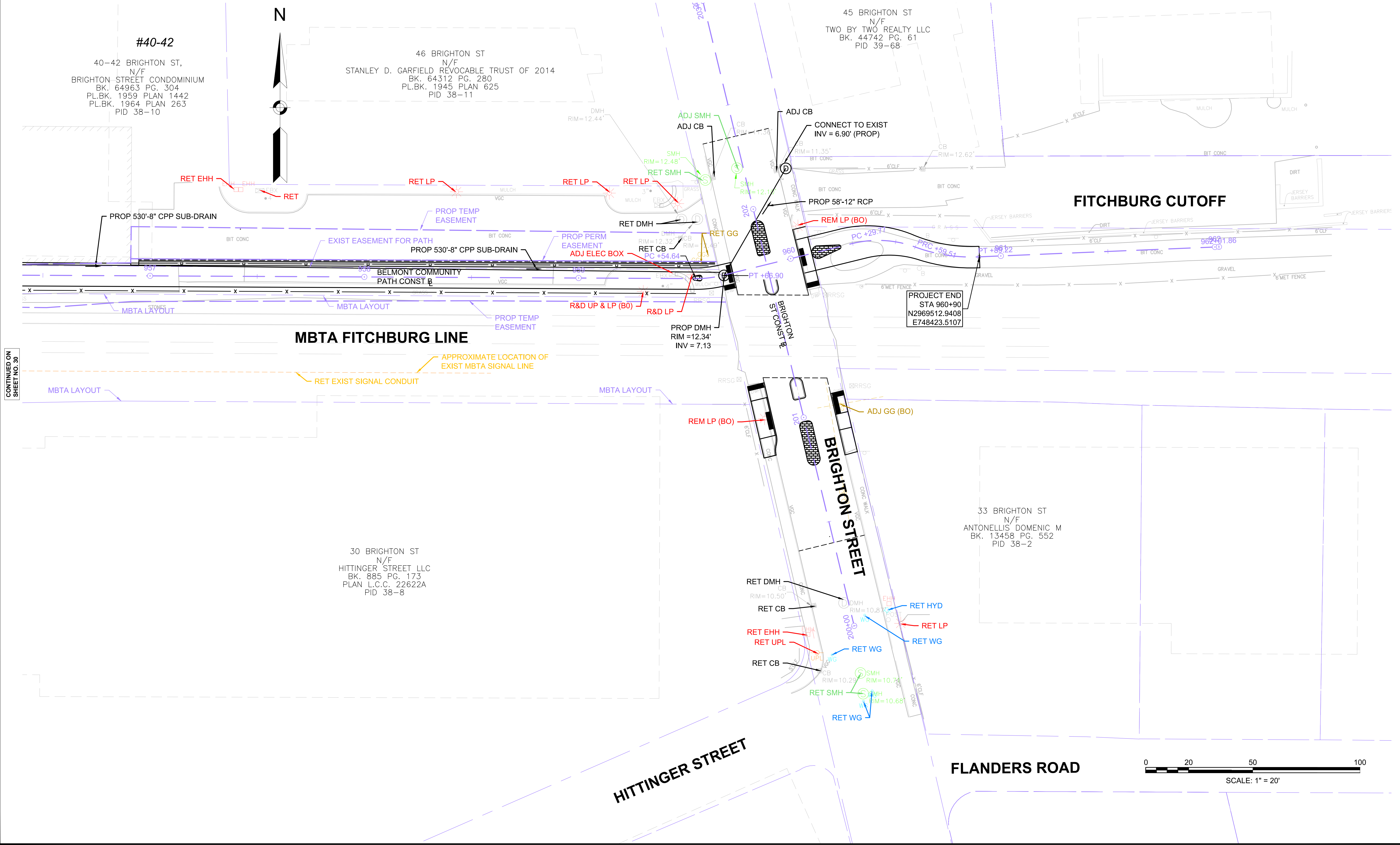
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**BELMONT
COMMUNITY PATH - PHASE 1
BELMONT COMPONENT OF THE MCRT**

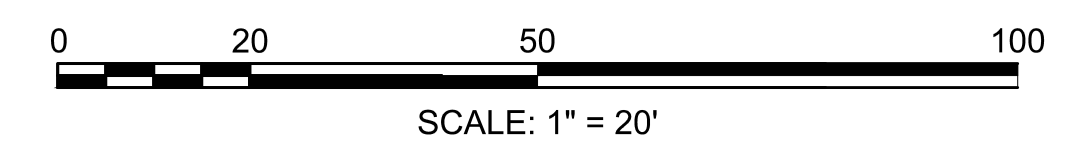
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	---	31	31
PROJECT FILE NO. 609204			
DRAINAGE & UTILITY PLANS			

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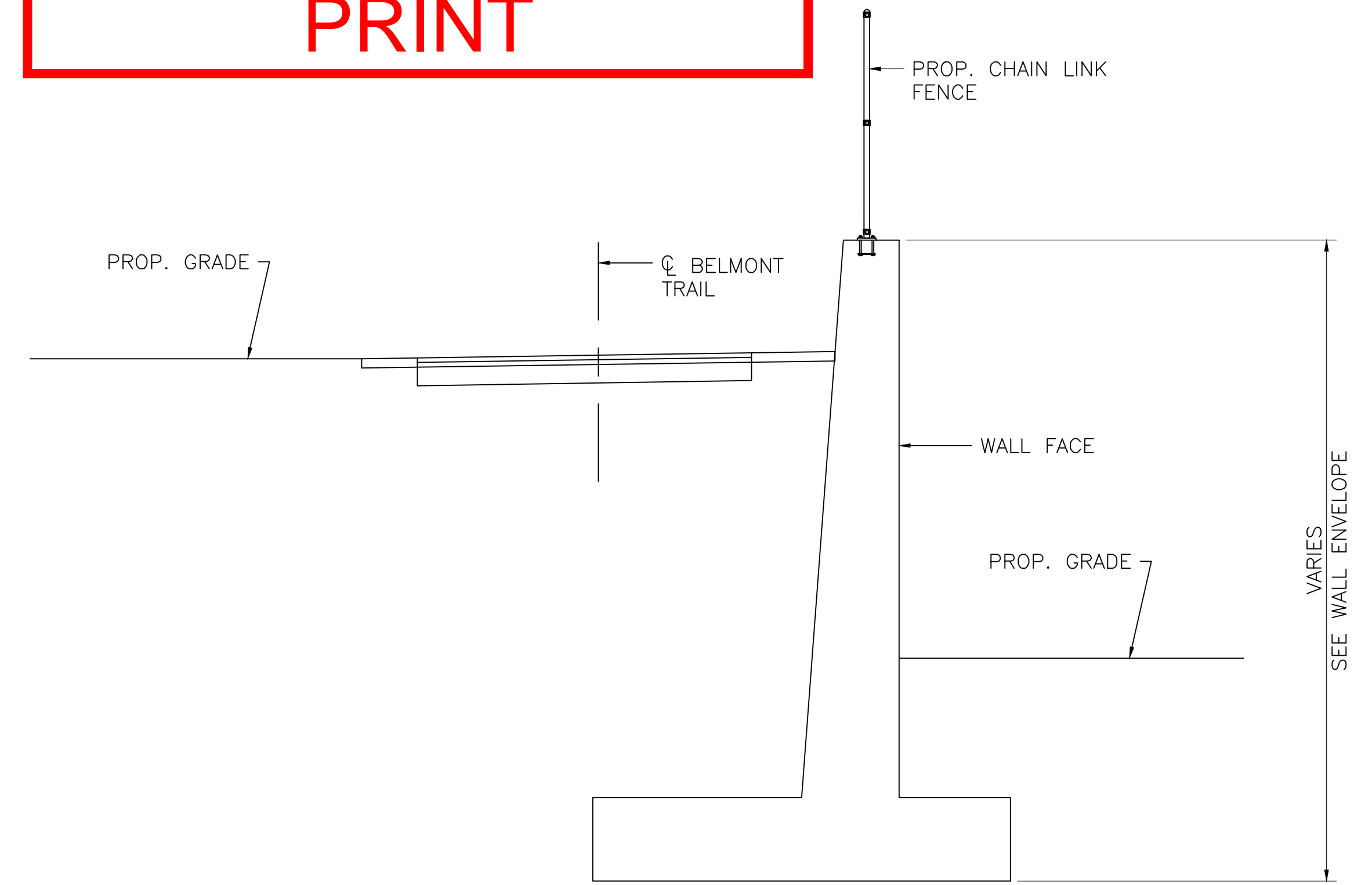


CLARK STREET CANTILEVER WALL ENVELOPE

WALL TYPE	FROM STA.	TO STA.	WALL HEIGHT	WALL LENGTH
CANTILEVER	100+00	100+50	8'	50'
CANTILEVER	100+50	101+50	20'	100'
CANTILEVER	101+50	102+00	24'	50'
CANTILEVER	102+00	102+50	22'	50'
CANTILEVER	102+50	103+00	20'	50'
CANTILEVER	103+00	103+50	18'	50'
CANTILEVER	103+50	104+00	16'	50'
CANTILEVER	104+00	105+00	14'	100'
CANTILEVER	105+00	106+00	12'	100'
CANTILEVER	106+00	106+50	9'	50'

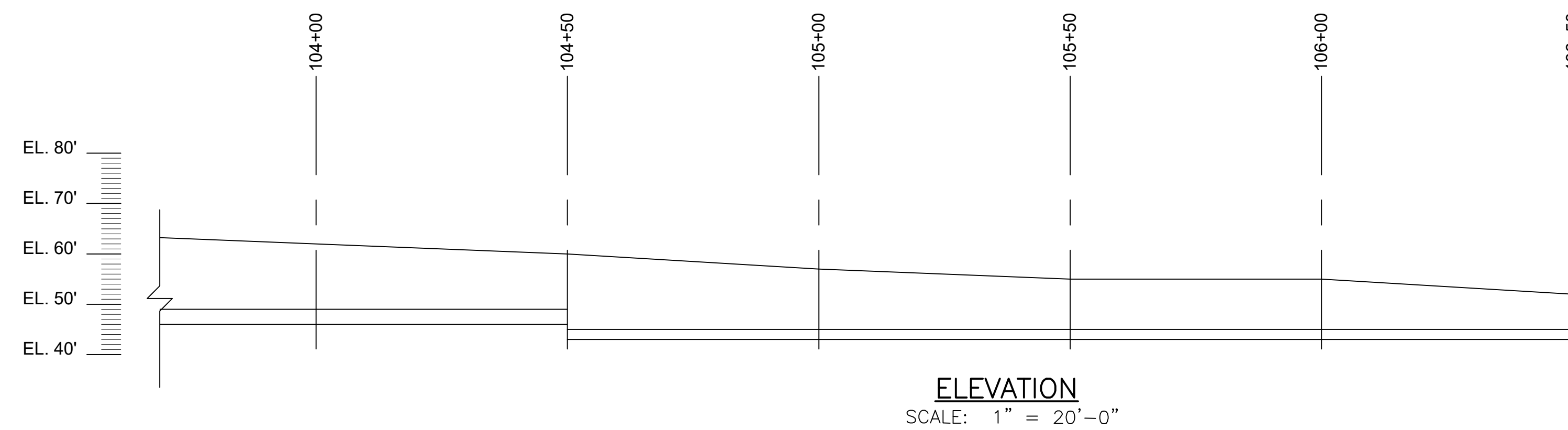
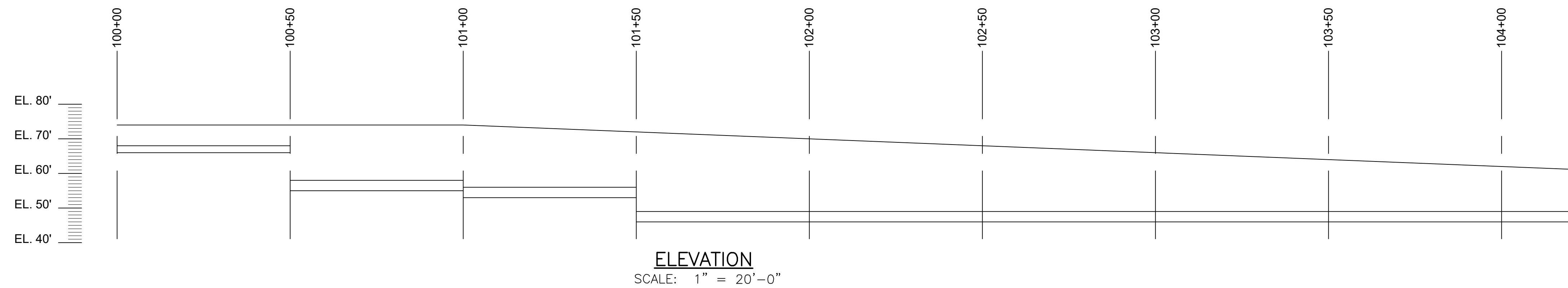
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PRINT**

CLARK STREET RETAINING WALLS



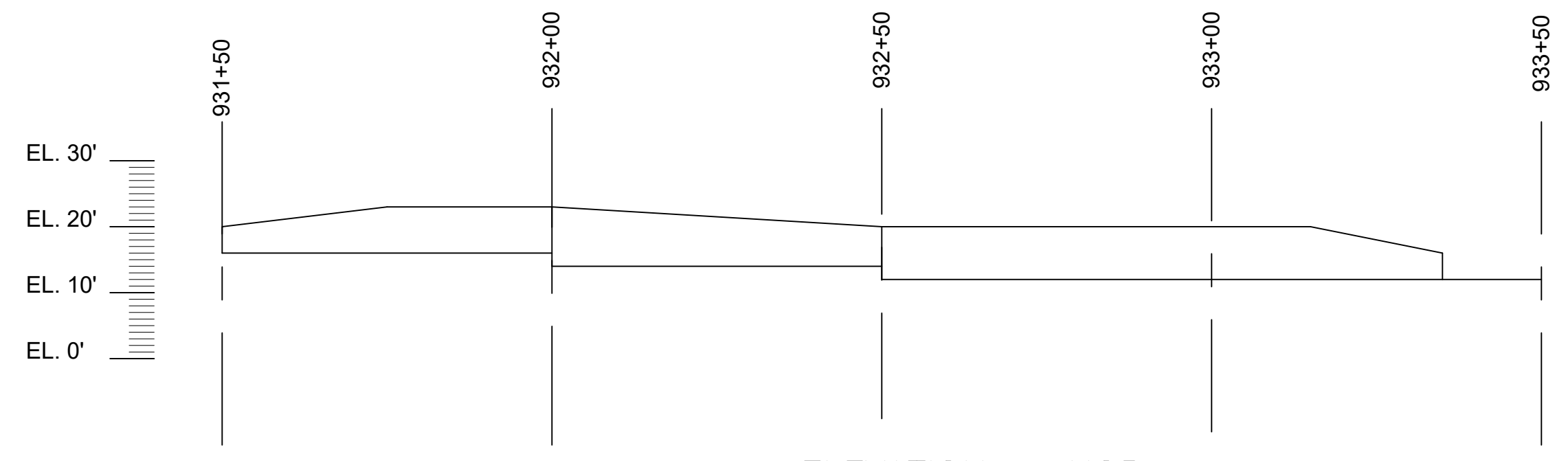
CANTILEVER WALL – TYPICAL SECTION

SCALE: 1" = 4'-0"

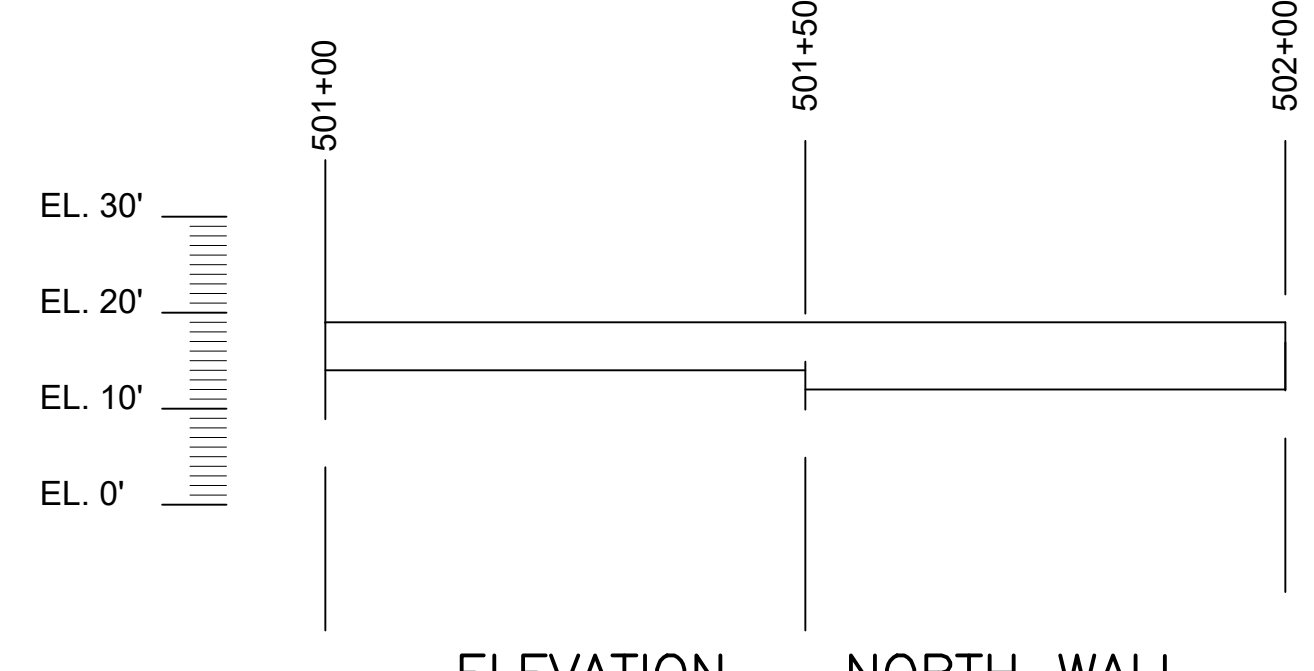


NOTE: CHAIN LINK FENCE MOUNTED ON WALL NOT SHOWN.

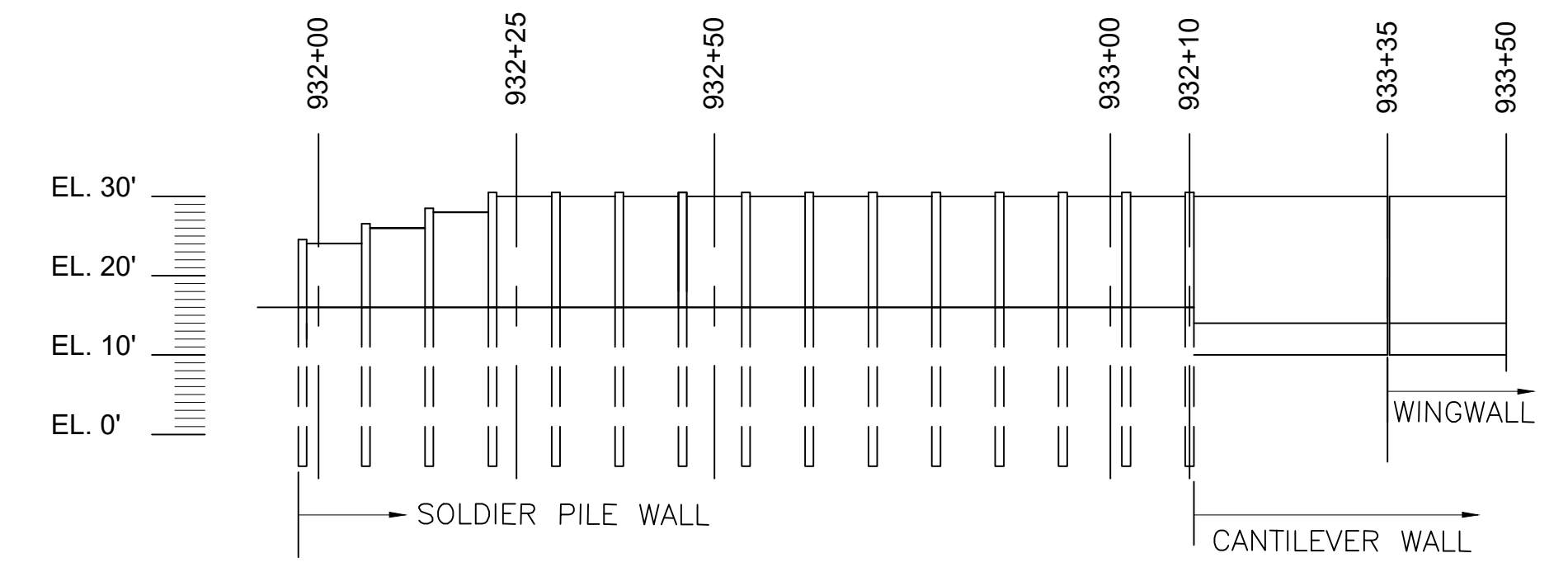
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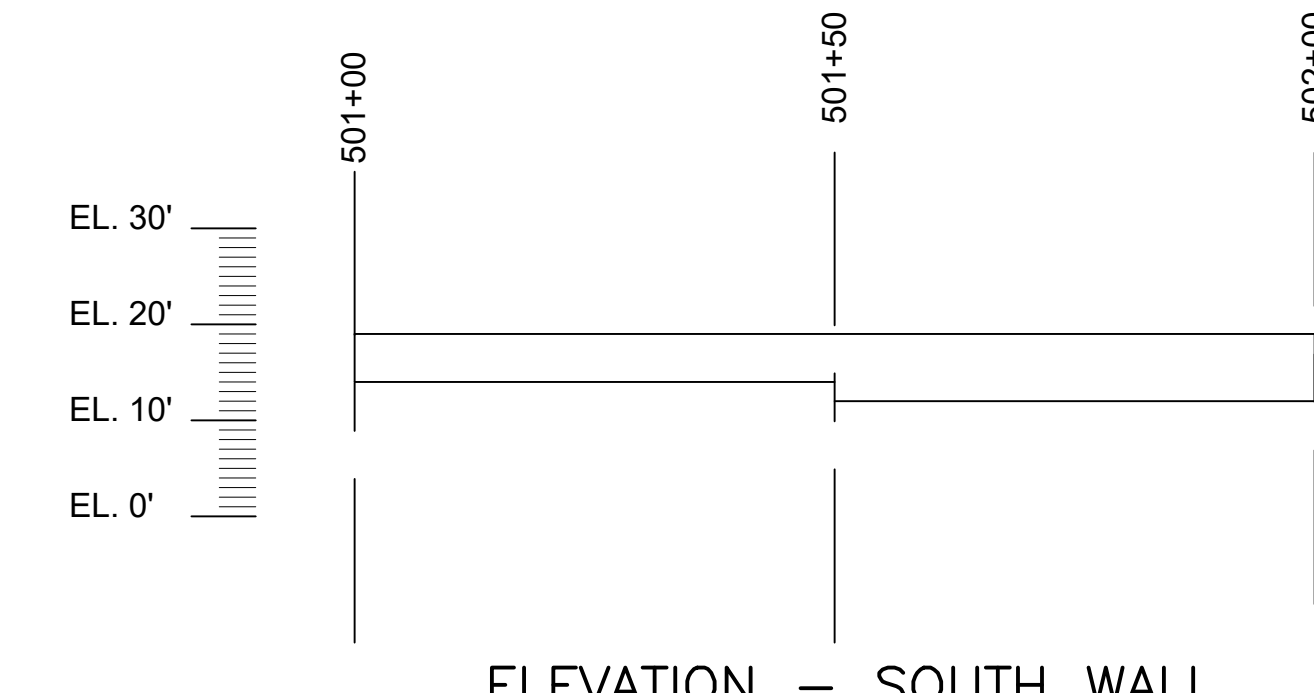
ELEVATION — NORTH WALL
SCALE: 1" = 20'-0"



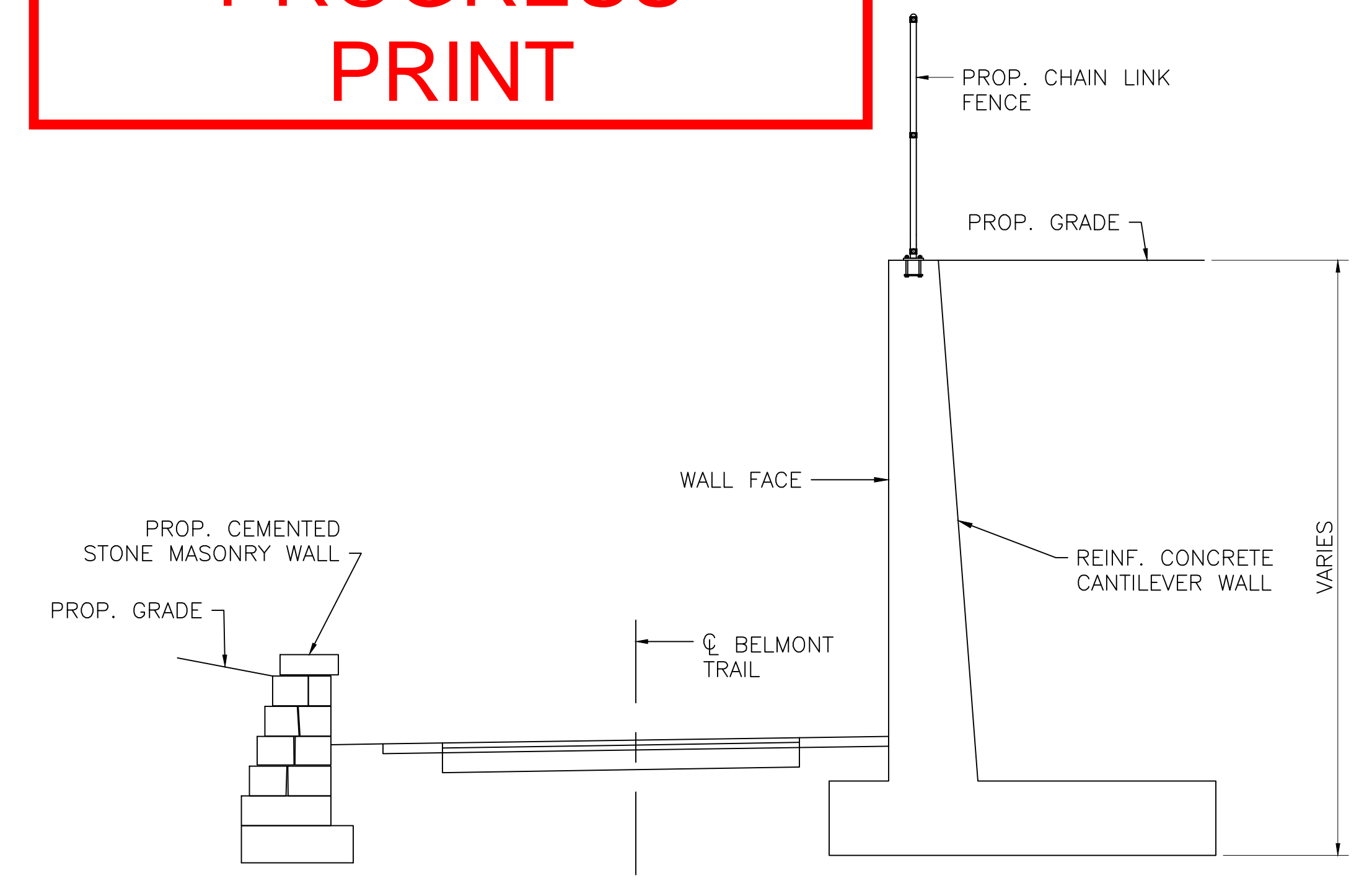
ELEVATION — NORTH WALL
SCALE: 1" = 20'-0"



ELEVATION — SOUTH WALL
SCALE: 1" = 20'-0"



ELEVATION — SOUTH WALL
SCALE: 1" = 20'-0"



CANTILEVER WALL — TYPICAL SECTION
SCALE: 1" = 4'-0"

NOTE: CHAIN LINK FENCE MOUNTED ON WALL NOT SHOWN.

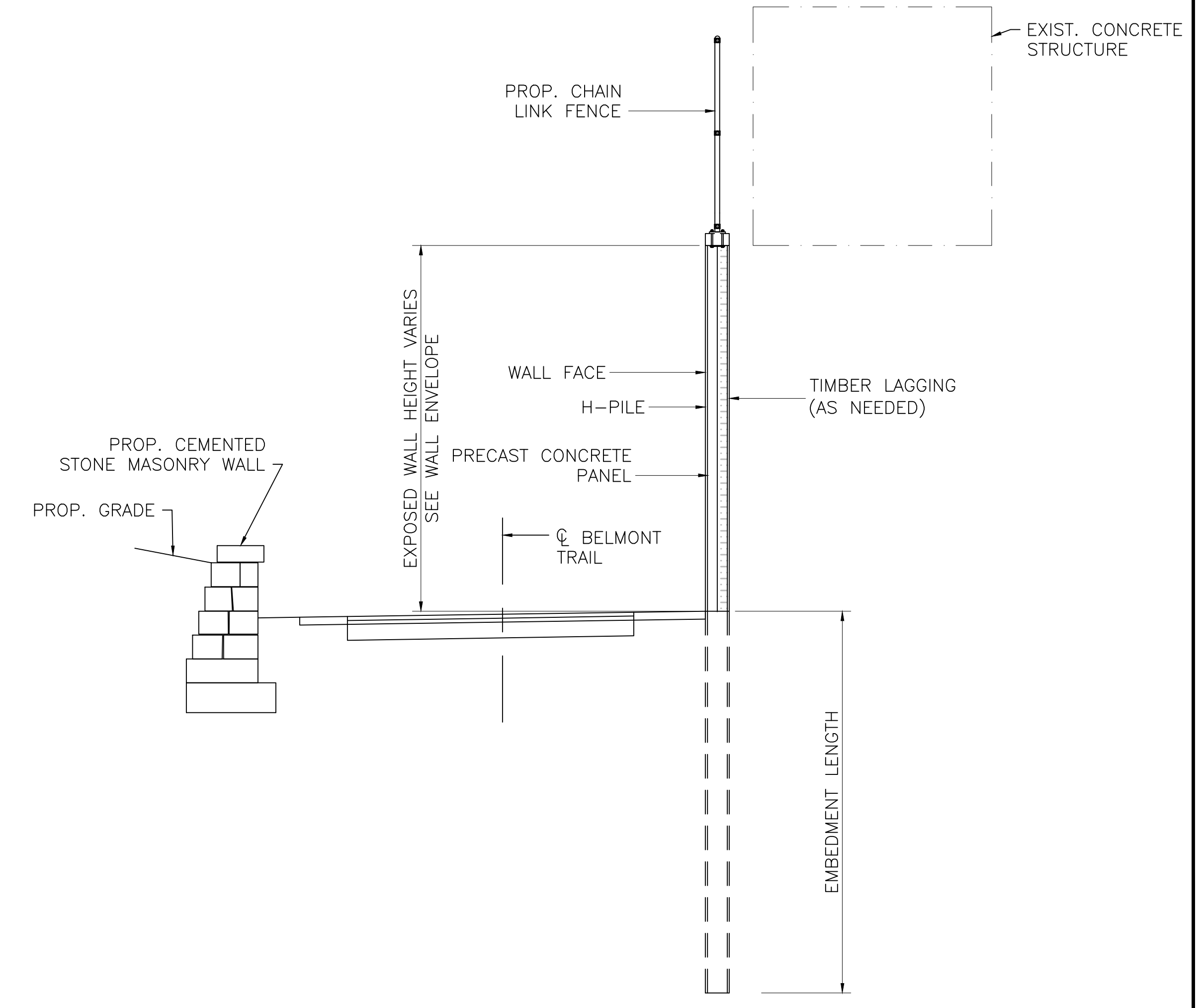
PROPOSED WALL ELEVATION ENVELOPE

WALL TYPE	FROM STA.	TO STA.	OFFSET	STARTING WALL HEIGHT	END WALL HEIGHT	WALL LENGTH
SOLDIER PILE	932+00	932+25	RIGHT	8'	16'	25'
SOLDIER PILE	932+25	933+10	RIGHT	16'	16'	85'
CANTILEVER	933+10	933+35	RIGHT	20'	20'	25'

STONE MASONRY	931+25	931+50	LEFT	0'	7'	25'
STONE MASONRY	931+50	932+00	LEFT	7'	7'	50'
STONE MASONRY	932+00	932+50	LEFT	7'	8'	50'
STONE MASONRY	932+50	933+00	LEFT	8'	9'	50'
STONE MASONRY	933+00	933+15	LEFT	9'	4'	15'

STONE MASONRY	934+00	934+50	LEFT	9'	9'	50'
STONE MASONRY	934+50	935+00	LEFT	9'	7'	50'
STONE MASONRY	935+00	935+15	LEFT	7'	0'	15'

STONE MASONRY	500+50	501+00	LEFT	5'	7'	50'
STONE MASONRY	501+00	501+50	LEFT	7'	5'	50'
STONE MASONRY	501+50	502+00	LEFT	5'	5'	50'
STONE MASONRY	500+50	501+00	RIGHT	5'	7'	50'
STONE MASONRY	501+00	501+50	RIGHT	7'	5'	50'
STONE MASONRY	501+50	502+00	RIGHT	5'	5'	50'



SOLDIER PILE WITH PRECAST CONCRETE LAGGING PANELS — TYPICAL SECTION
SCALE: 1" = 4'-0"