

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION

PLAN AND PROFILE OF BRUCE FREEMAN RAIL TRAIL

PHASE 2D

IN THE TOWN OF

SUDBURY

MIDDLESEX COUNTY

FEDERAL AID PROJECT NO. XXX-XXXX(XXX)X

SUDBURY BRUCE FREEMAN RAIL TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	1	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
TITLE SHEET & INDEX**

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAILS 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.

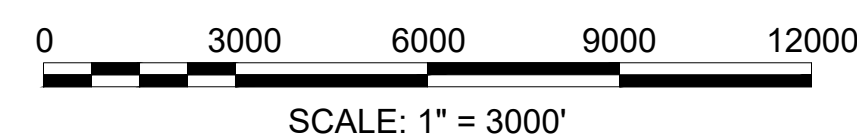
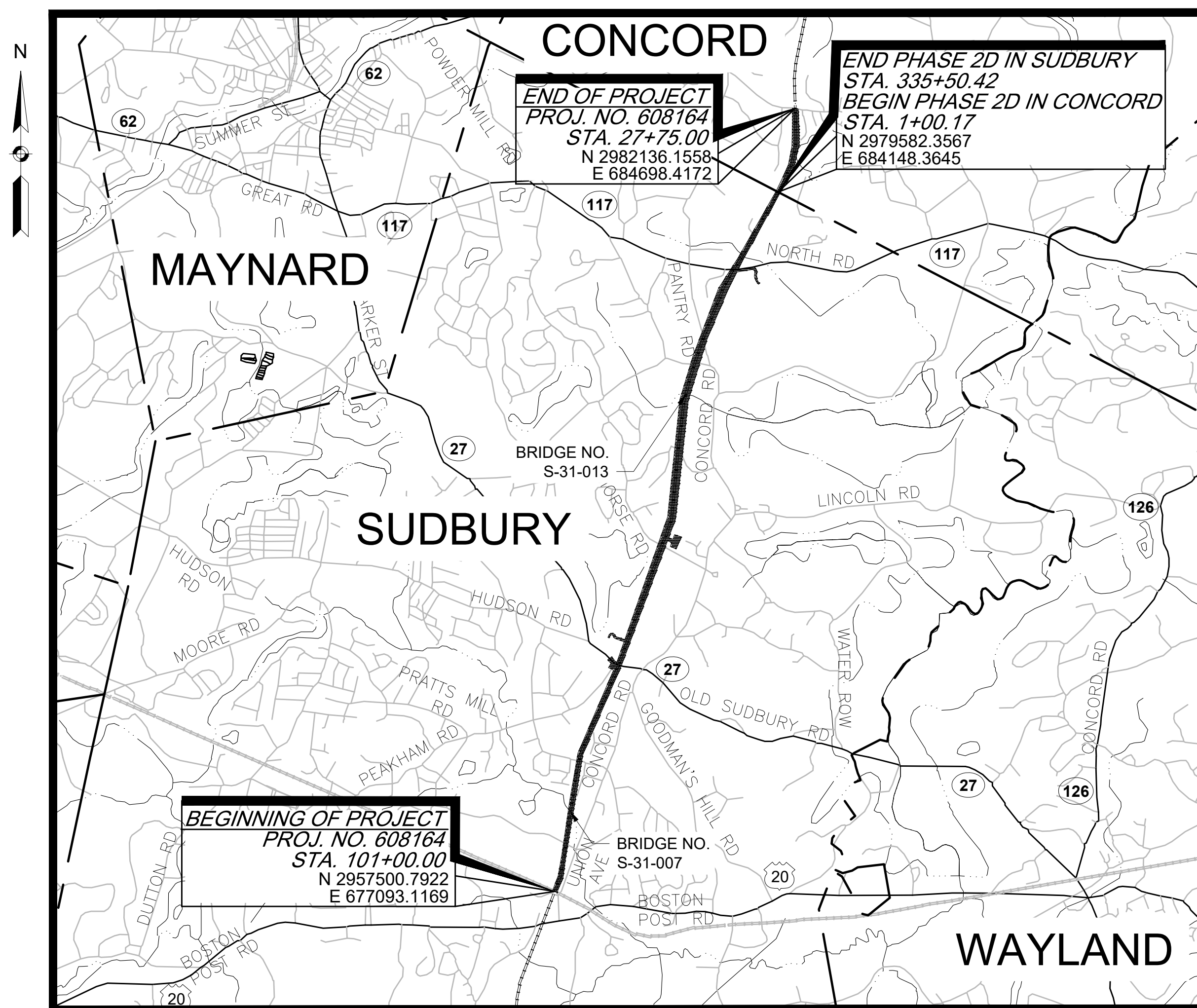
FINAL RIGHT OF WAY SUBMISSION

THE LAYOUT LINES, AS REPRESENTED ON THE PRELIMINARY RIGHT OF WAY PLANS, ARE BASED UPON AN INSTRUMENT SURVEY THAT MEETS 250 CMR 6.02 AND ARE SUITABLE TO BE USED FOR A RECORDABLE PLAN.

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1	TITLE SHEET & INDEX
2	LEGEND, ABBREVIATIONS, AND PROJECT DESCRIPTION
#-	TYPICAL SECTIONS
#	CRITICAL PROFILES
9	PARCEL SUMMARY SHEETS
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15-43	PROPERTY PLANS

BASE MAP NOTES:

1. THE SURVEY BASE PLAN WAS PREPARED BY VHB, INC. IN JULY, 2016 AND SUPPLEMENTED BY GCG ASSOCIATES IN DECEMBER 2020.
2. THE MOST RECENT SITE VISIT WAS COMPLETED IN NOVEMBER, 2021 TO VERIFY THAT THE EXISTING CONDITIONS SHOWN ON THE PLAN ARE THE CURRENT CONDITIONS IN THE FIELD.
3. THE LAYOUT AND PROPERTY LINES SHOWN ON THE PLAN WERE COMPILED FROM INSTRUMENT SURVEY MEETING MASSDOT REQUIREMENTS CERTIFIED BY XXX, A PLS IN DIRECT CHARGE AND SUPERVISION OF THE SURVEY BASEMAP FOR THE LINEAR PORTION OF THE TRAIL. LAYOUT AND PROPERTY LINES ALONG NORTH ROAD (RT. 117), MORSE ROAD, AND PARKINSON RECREATION AREA/SPUR PATH WERE COMPILED BY MICHAEL CARTER, (GCG ASSOCIATES), A PLS IN DIRECT CHARGE OF THOSE SURVEYED AREAS.
4. THE OWNERS HAVE BEEN CHECKED AND UPDATED AS OF NOVEMBER, 2021.



LENGTH OF PROJECT = 23,542.00 FEET = 4.459 MILES

HAVELOCK J. PURSEGLOVE, PLS #54318

DATE

DATE	DESCRIPTION	REV #
1-18-2022	FINAL ROW SUBMISSION NEW PARCELS: N/A ALTERED PARCELS: N/A DELETED PARCELS: N/A NOTE: NO CHANGES TO ROW HAS OCCURRED SINCE PREVIOUS SUBMISSION. PLANS PROVIDED REFLECT THE 100% HIGHWAY SUBMISSION	4
10-22-2021	75% DESIGN REV 3 NEW PARCELS: N/A ALTERED PARCELS: BP-1, TE-10 DELETED PARCELS: N/A	3
10-08-2021	75% DESIGN REV 2 NEW PARCELS: N/A ALTERED PARCELS: BP-3 DELETED PARCELS: N/A	2
09-15-2021	75% DESIGN REV 1	1
05-12-2021	75% DESIGN INITIAL SUBMISSION	0



APPROVED

CHIEF ENGINEER

DATE

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
		RAILROAD SIGNAL
		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
		MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

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

PROJECT DESCRIPTION:

THE PROPOSED PROJECT CONSISTS OF THE CONSTRUCTION OF THE SEGMENT OF THE BRUCE FREEMAN RAIL TRAIL WITHIN THE TOWN OF SUDBURY. THIS INCLUDES THE CREATION OF A 10 FOOT PAVED MULTI-USE PATH TO EXTEND THE TRAIL LENGTH AND PROVIDE NEW BICYCLE AND PEDESTRIAN CONNECTIONS. THE PROPOSED TRAIL WILL BE APPROXIMATELY 23400 LINEAR-FEET IN LENGTH, BEGINNING AT THE PHASE 2C TERMINUS CONCORD-SUDBURY TOWN LINE AND CONTINUING SOUTHERLY TO THE NORTH SIDE OF STATION ROAD WHERE THE TRAIL WILL CONNECT WITH THE MASS CENTRAL RAIL TRAIL IN A LATER PHASE. THIS PROJECT ALSO INCLUDES GEOMETRIC IMPROVEMENTS AND TRAFFIC SIGNAL UPGRADES TO THE INTERSECTION OF HUDSON ROAD AND PEAKHAM ROAD. SPUR PATHS ARE PROPOSED AT THE PARKINSON LOT AND AT NORTH ROAD TO CONNECT TO THE DAVIS FIELD PARKING LOT. PARKING LOT IMPROVEMENTS AND A TRAIL HEAD CONNECTION ARE PROPOSED AT THE BROADACRES FARM PARKING LOT AT MORSE ROAD. A HAWK SIGNAL IS TO BE INSTALLED AT NORTH ROAD AND RRFBS ARE TO BE INSTALLED AT THE OTHER STREET CROSSINGS.

ABBREVIATIONS

GENERAL	
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY

SUDBURY BRUCE FREEMAN RAIL TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	2	43
PROJECT FILE NO. 608164			

**FINAL RIGHT OF WAY
LEGEND, ABBREVIATIONS AND
PROJECT DESCRIPTION**

ABBREVIATIONS (cont.)

GENERAL	
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

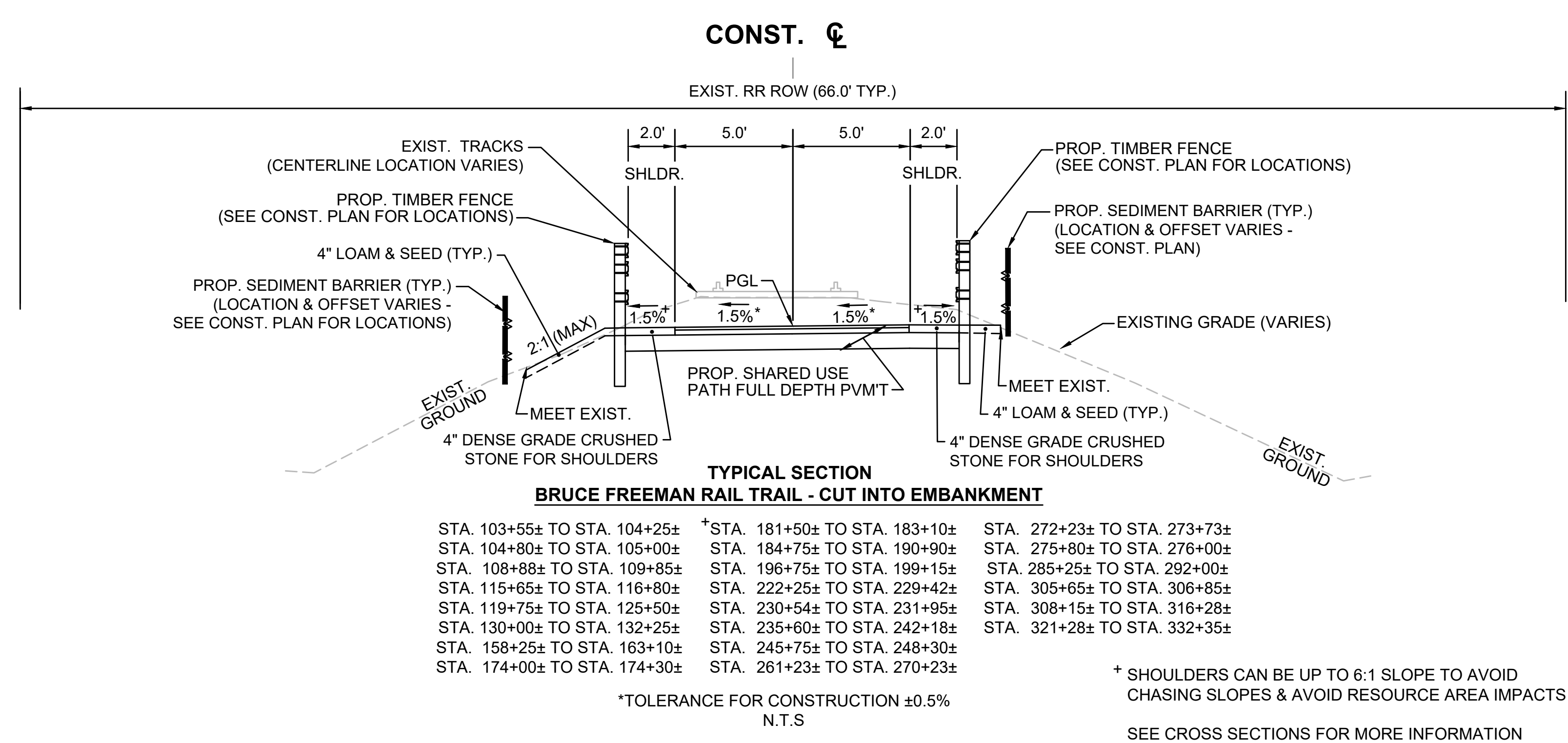
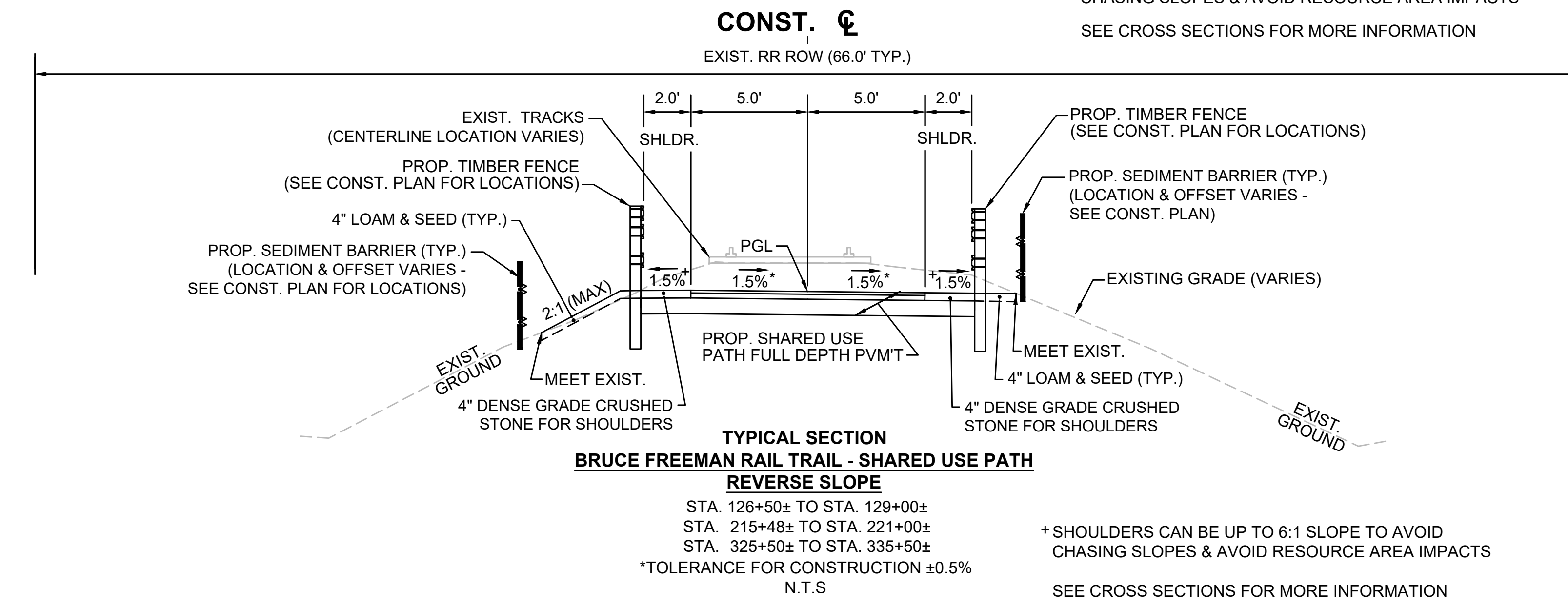
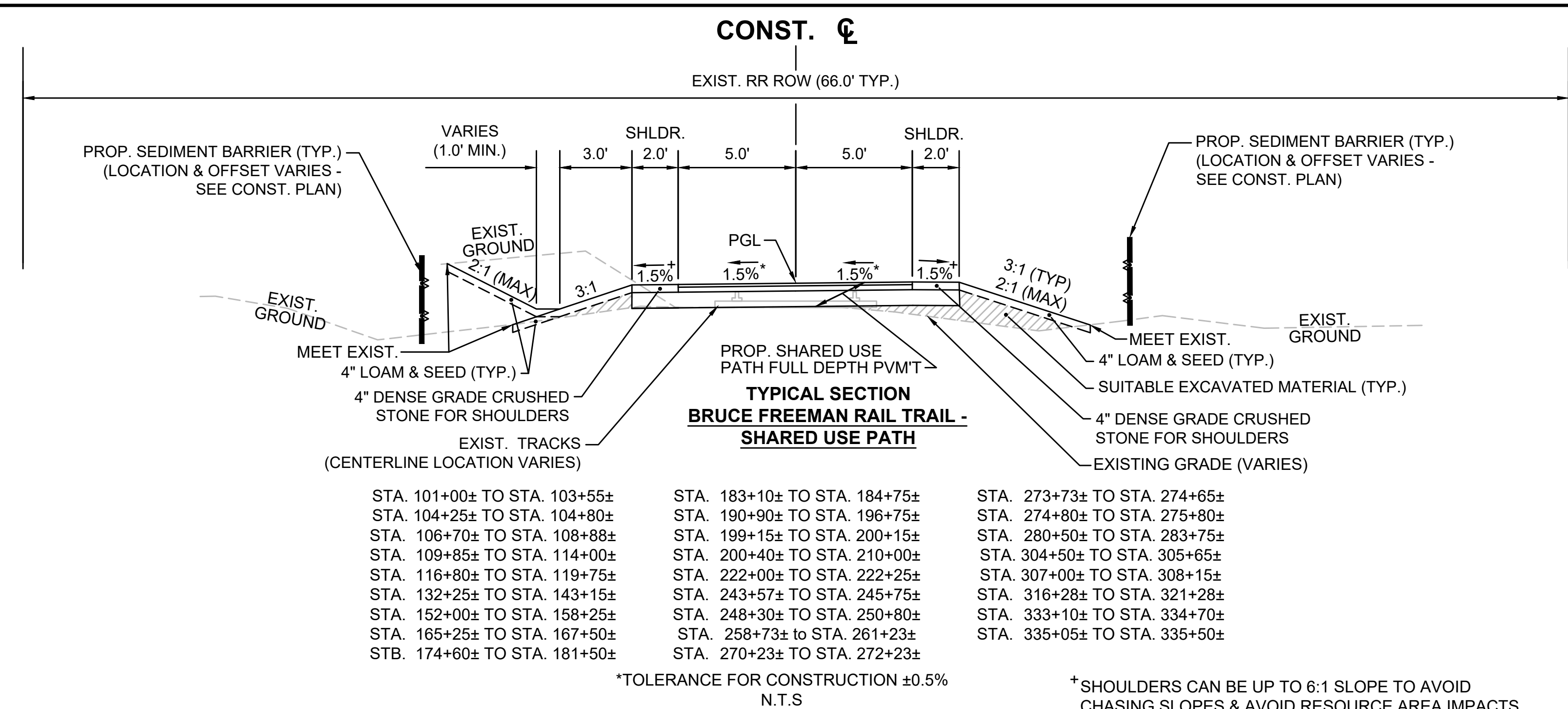
ABBREVIATIONS (cont.)

RIGHT OF WAY PLANS*	
FEE TAKINGS	
1-C	TAKEN IN FEE BY THE CITY
1-T	TAKEN IN FEE BY THE MUNICIPALITY
D-1-F	TAKEN IN FEE FOR DRAINAGE PURPOSE
UR-1-C	UNECONOMIC REMAINDER
PERMANENT EASEMENTS	
C-1	CHANNEL EASEMENT
D-1	DRAINAGE EASEMENT
E-1	HIGHWAY EASEMENT
GR-1	GUARDRAIL EASEMENT
PUE-1	PERMANENT UTILITY EASEMENT
S-1	SLOPE EASEMENT
W-1	WALL EASEMENT
WM-1	WATER MAIN EASEMENT
BP-1	BIKE/SHARED USE PATH EASEMENT
CFS-1	COMPENSATORY FLOOD STORAGE
TEMPORARY EASEMENTS	
TE-1	TEMP. EASEMENT
TWLR-1	TEMP. WETLAND REPLICATION EASEMENT
TFBU-1	TEMP. FOOTBRIDGE UTILITY EASEMENT
TPWW-1	TEMP. PEDESTRIAN WALK WAY EASEMENT
TR-1	TEMP. ROAD EASEMENT
TRT-1	TEMP. REMOVAL EASEMENT
*IN ALL ROW CASES, THE NUMBER 1 IS VARIABLE IN THE PLAN SET DEPENDING ON THE FEE TAKING OR EASEMENT ASSOCIATED WITH THE PROPERTY	

**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	3	43

PROJECT FILE NO. 608164
**FINAL RIGHT OF WAY
TYPICAL SECTIONS
SHEET 1 OF 5**



- PAVEMENT NOTES:**
- PROPOSED SHARED-USE PATH**
SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)
INTERMEDIATE: 2-1/2" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC - 19.0)
SUBBASE: 4" TO 8" GRAVEL BORROW, TYPE b (FOR LEVELING) OVER RESHAPED EXISTING RAILROAD BALLAST
- PROPOSED PARKING LOT FULL DEPTH PAVEMENT**
SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE (SSC-12.5-P) - OVER
BASE: 2-1/2" SUPERPAVE INTERMEDIATE COURSE (19.0) - OVER
FOUNDATION: 8" GRAVEL BORROW, TYPE b
- PROPOSED FULL DEPTH CONSTRUCTION (LESS THAN 4.00' WIDE) - PEAKHAM ROAD & HUDSON ROAD**
SURFACE: 1-3/4" SUPERPAVE SURFACE COURSE (12.5 POLYMER) - OVER
INTERMEDIATE: 2-1/2" SUPERPAVE INTERMEDIATE COURSE (19.0) - OVER
BASE: 6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE 4000psi, 610, 3/4" OVER
SUBBASE: 8" GRAVEL BORROW, TYPE b.
- PROPOSED PAVEMENT MILLING & OVERLAY - PEAKHAM ROAD & HUDSON ROAD**
1-3/4" PAVEMENT MILLING
1-3/4" SUPERPAVE SURFACE COURSE (SSC - 12.5 - P)
- PROPOSED HOT MIX ASPHALT SIDEWALK & DRIVEWAY**
SURFACE: 1-1/2" SUPERPAVE SURFACE COURSE (9.5) - OVER
2-1/2" SUPERPAVE INTERMEDIATE COURSE (12.5)
FOUNDATION: 8" GRAVEL BORROW, TYPE b
- PROPOSED CEMENT CONCRETE WALK, REST AREA & WHEELCHAIR RAMP**
SURFACE: 4" CEMENT CONCRETE AIR ENTRAINED 4000 PSI, 3/4", 610
SUBBASE: 8" GRAVEL BORROW, TYPE b

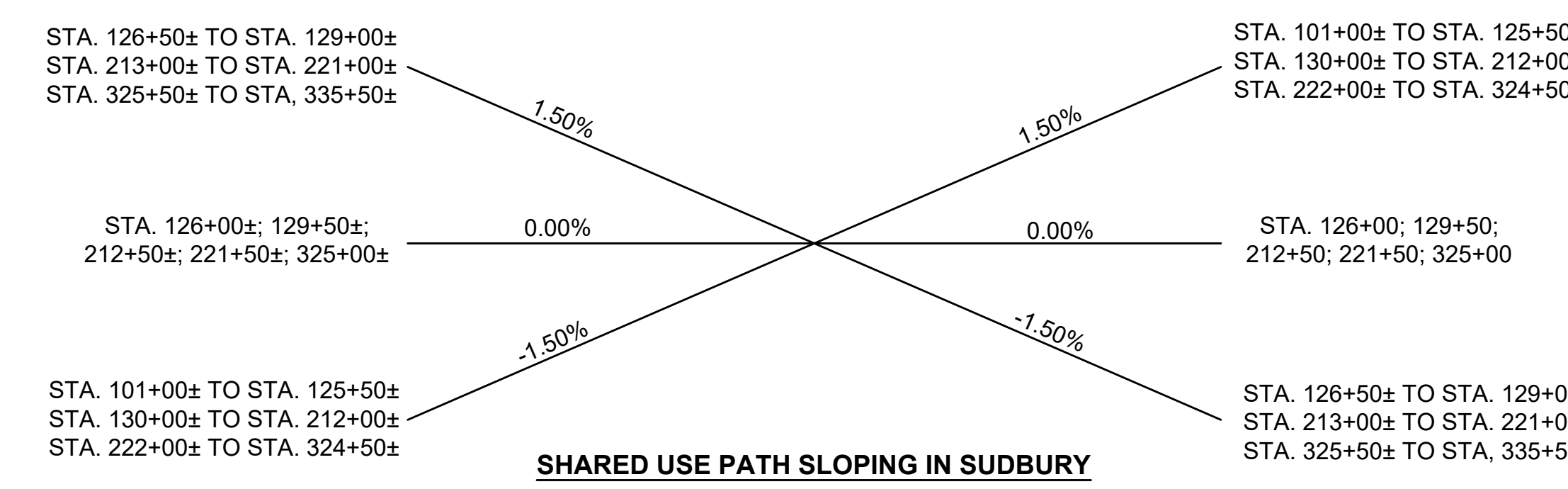
NOTES: EXIST. GRAVEL/BALLAST SUBGROUND MATERIAL DETERMINED BY THE ENGINEER TO BE SUITABLE SHALL REMAIN. THE DEPTH OF THE GRAVEL BORROW WILL BE AS REQUIRED BASED ON THE PROPOSED SUB-BASE ELEVATIONS.

AFTER REMOVAL OF STEEL RAILS AND WOOD TIMBER, ROUGH GRADE AND COMPACT SUBGROUND AREA. THEN PLACE AND COMPACT GRAVEL BORROW SUB-BASE MATERIAL IN MULTIPLE LIFTS.

ASPHALT EMULSION FOR TACK COAT AND HMA JOINT SEALANT SHALL BE APPLIED PER SECTION 450 QA OF THE SPECIAL PROVISIONS.

HMA FOR PATCHING SHALL BE USED FOR ALL PERMANENT, PARTIAL, AND FULL DEPTH PAVEMENT REPAIRS OF UNSOUND PAVEMENT PER SECTION 450 IN AREAS OUTSIDE OF PROP. OSED FULL DEPTH RECLAMATION OR RECONSTRUCTION ROADWAY AREAS.

HMA FOR MISCELLANEOUS WORK SHALL BE USED FOR ALL TEMPORARY CONSTRUCTION, TAPER RAMPS, CURB CUT RAMPS, TEMPORARY TRENCH REPAIR, ETC.



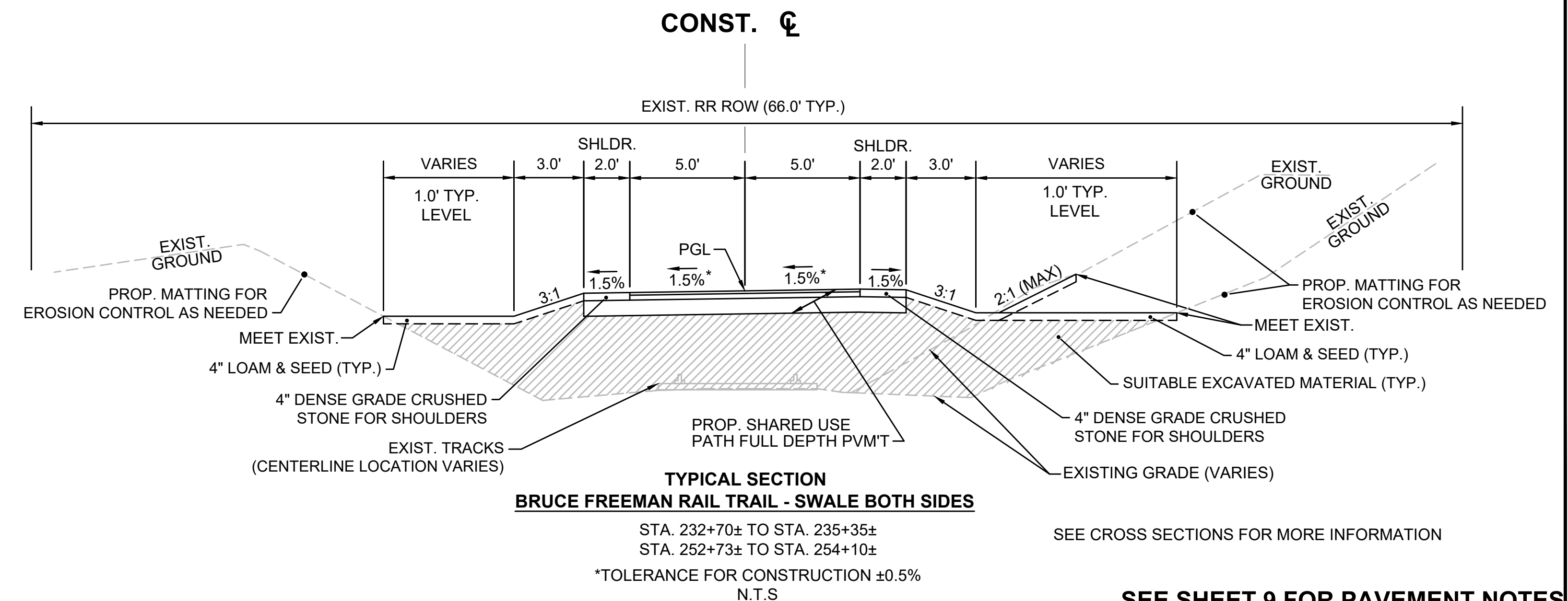
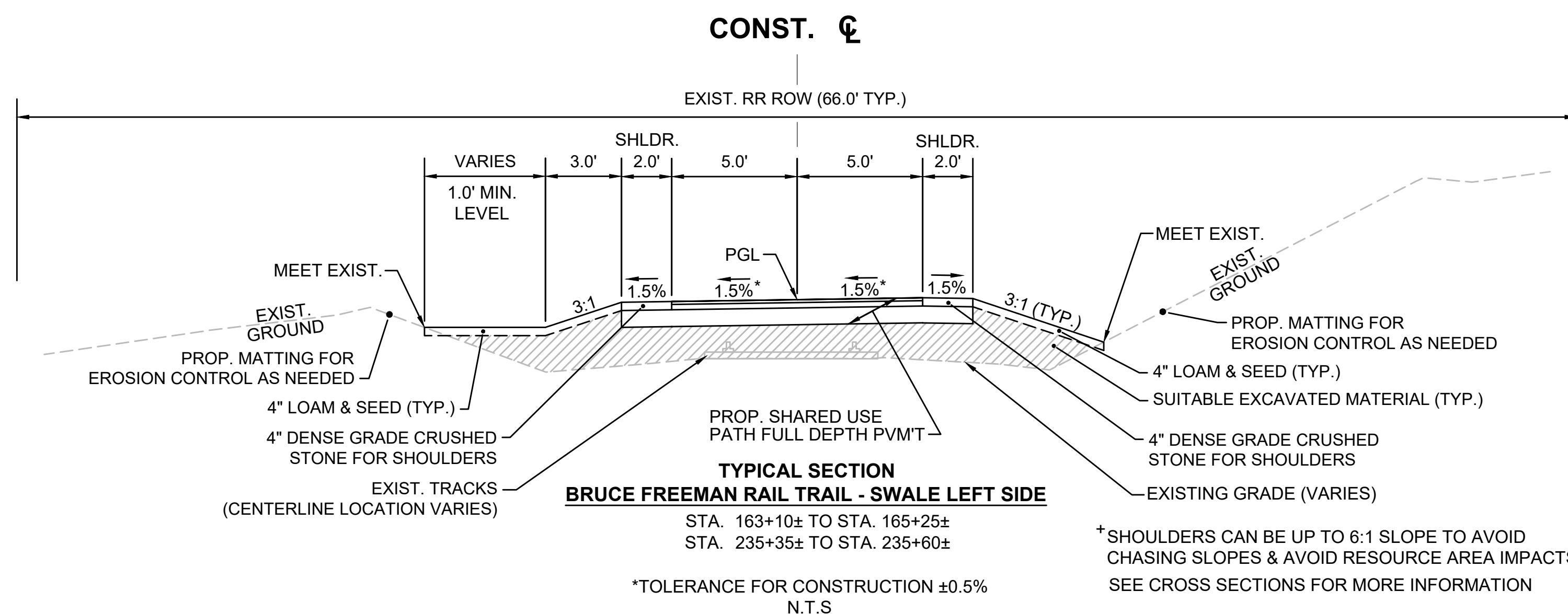
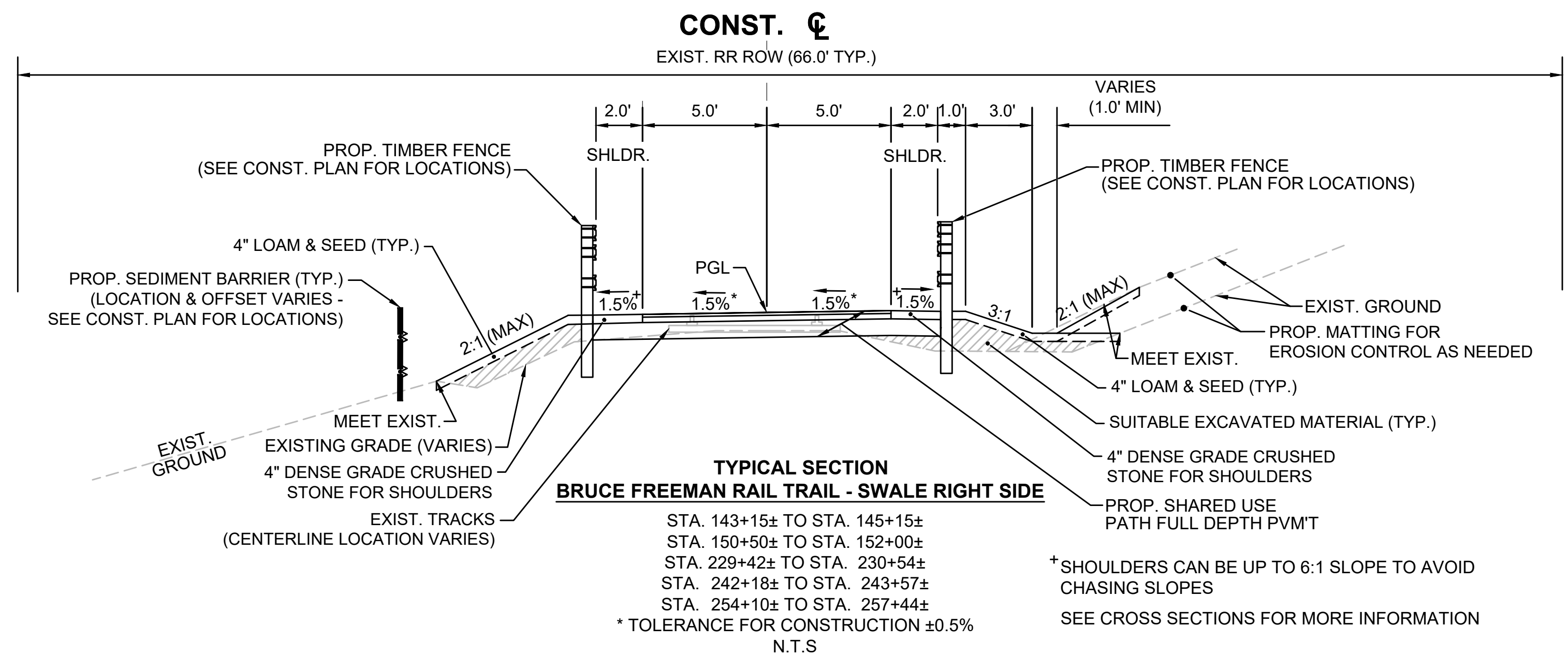
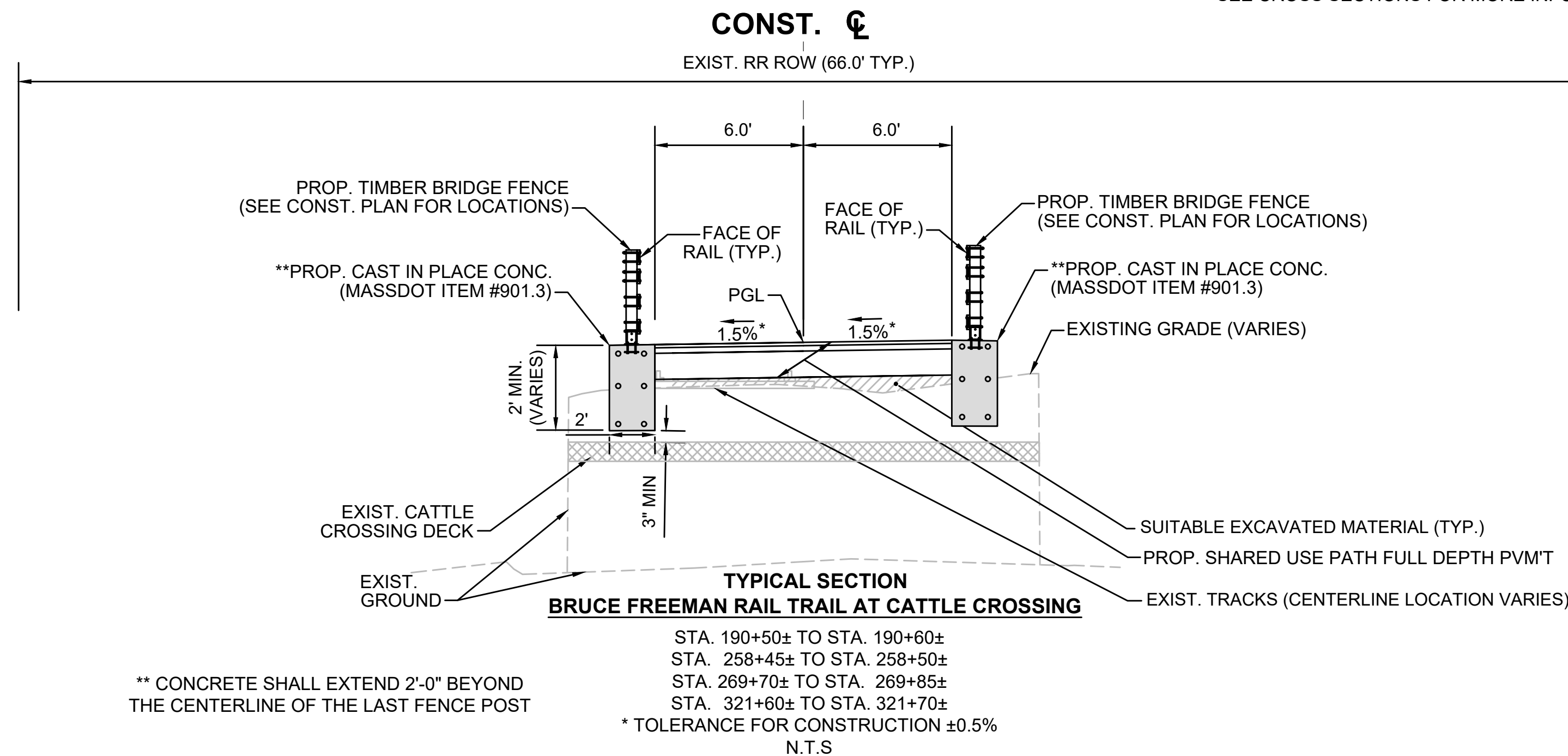
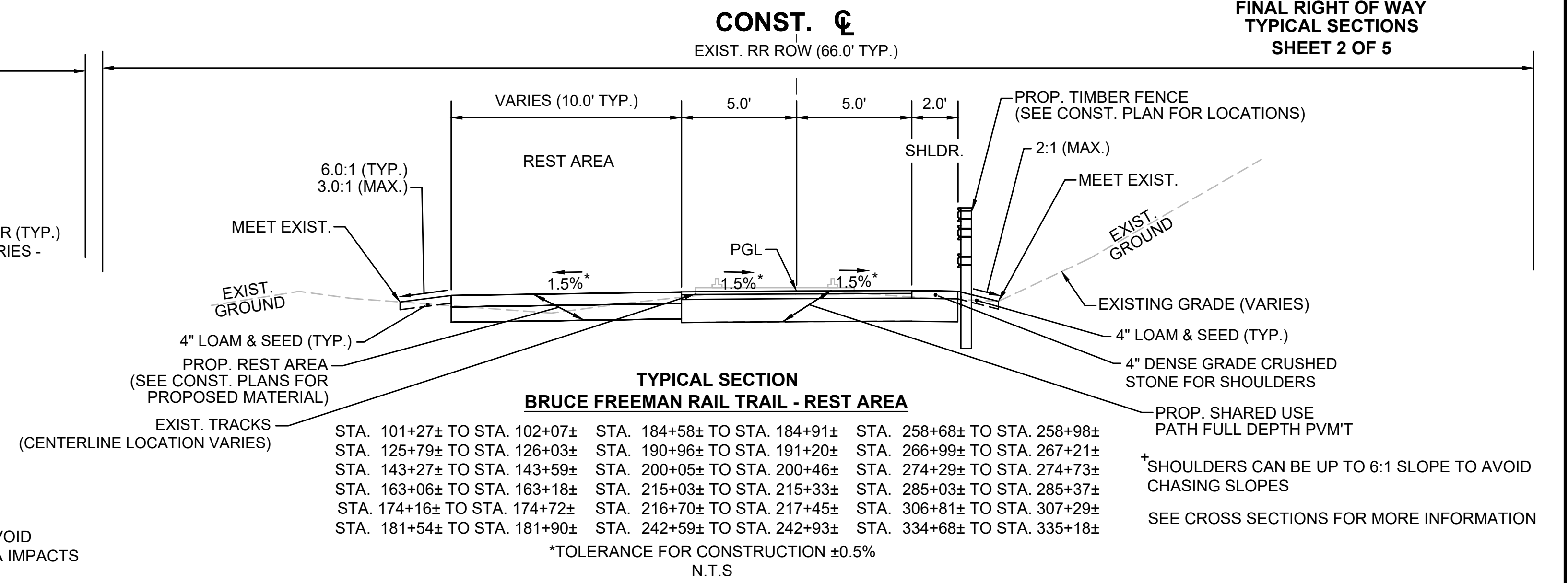
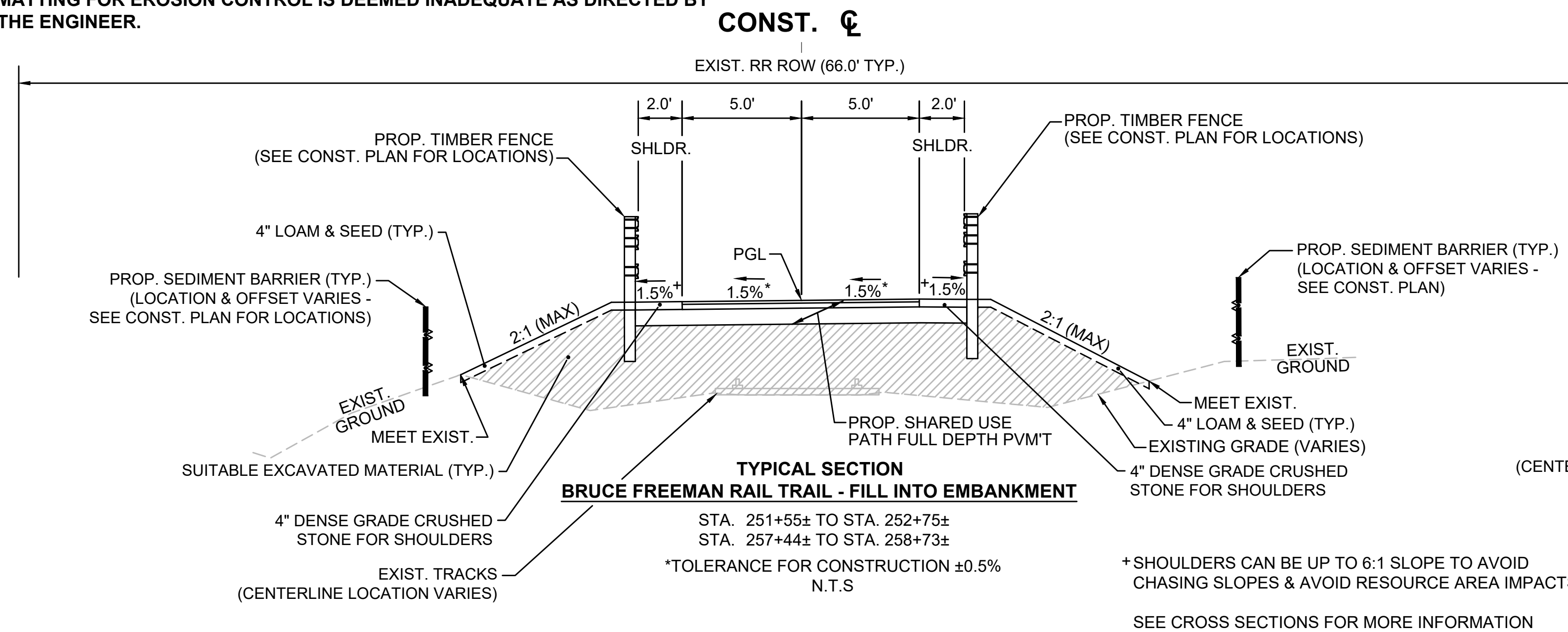
NOTE:
1. THE SECTIONS OF PROPOSED ROADWAY NOT COVERED IN THE RANGE OF STATIONS ASSOCIATED WITH THE TYPICAL SECTIONS ARE EITHER IN TRANSITION OR ARE LOCATED AT INTERSECTIONS AND THEREFOR HAVE NOT BEEN SHOWN. REFER TO CROSS SECTION SHEETS FOR MORE DETAILS.

NOTES:

- MATTING FOR EROSION CONTROL SHALL BE INSTALLED ON EXISTING SIDE SLOPES THAT ARE 2:1 OR STEEPER THAT ARE NOT WITHIN JUTE MESH WATERWAY AREAS.
- MODIFIED ROCK FILL SHALL BE USED AS NEEDED ON ANY CUT OR FILL SLOPES STEEPER THAN 2:1 WHERE POOR SOIL CONDITIONS EXIST AND MATTING FOR EROSION CONTROL IS DEEMED INADEQUATE AS DIRECTED BY THE ENGINEER.

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MA	XXX-XXXX(XXX)X	4	43
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**FINAL RIGHT OF WAY
TYPICAL SECTIONS
SHEET 2 OF 5**

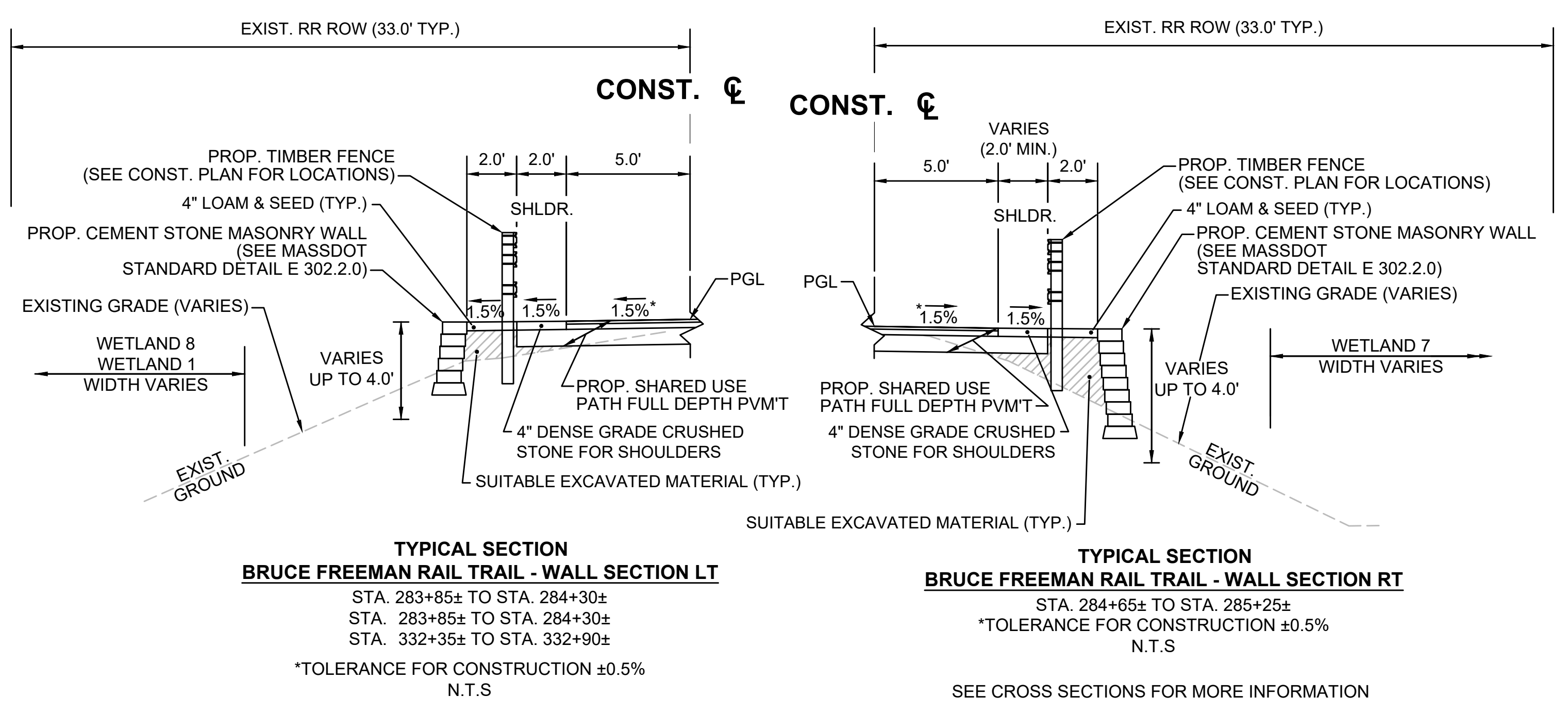
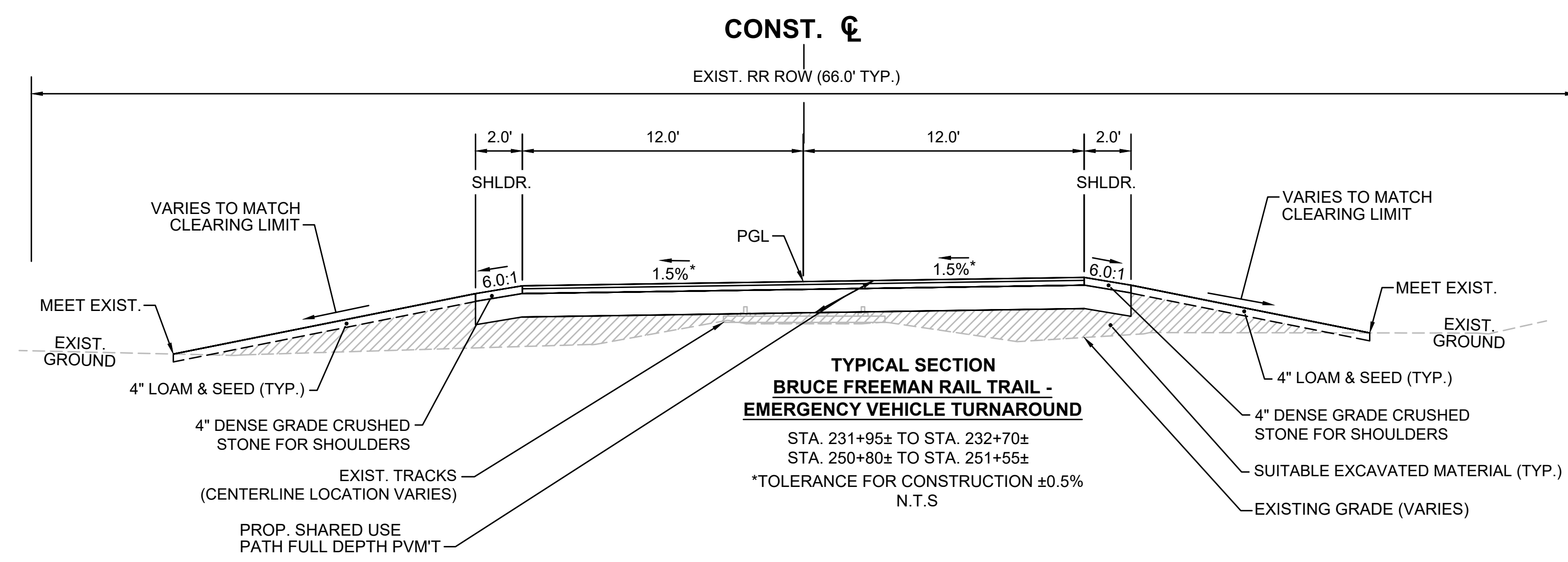
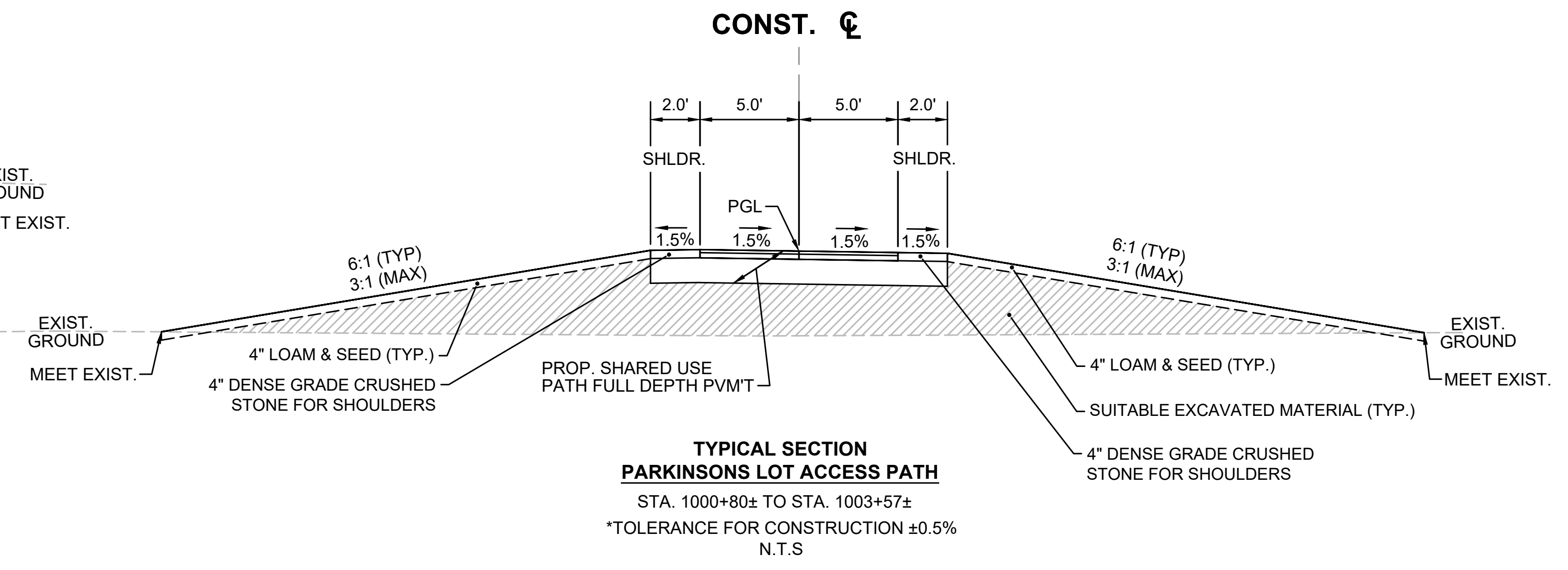
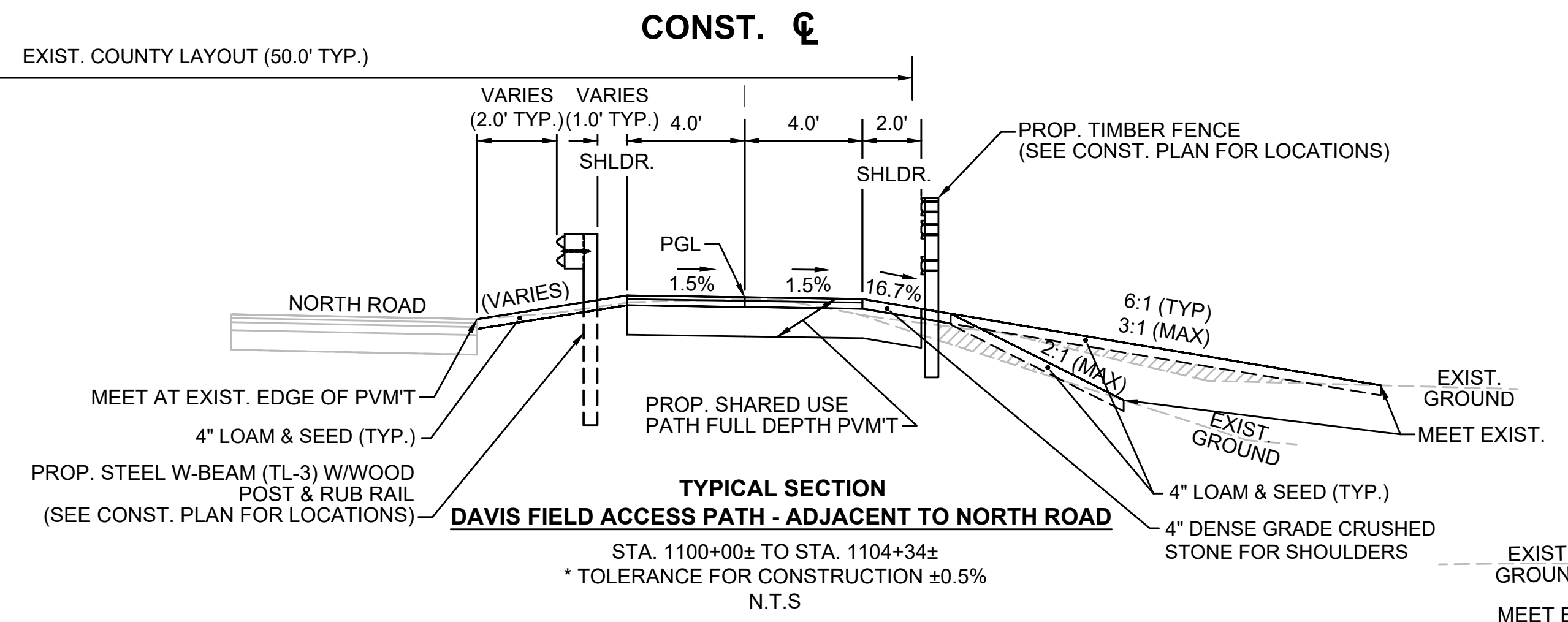
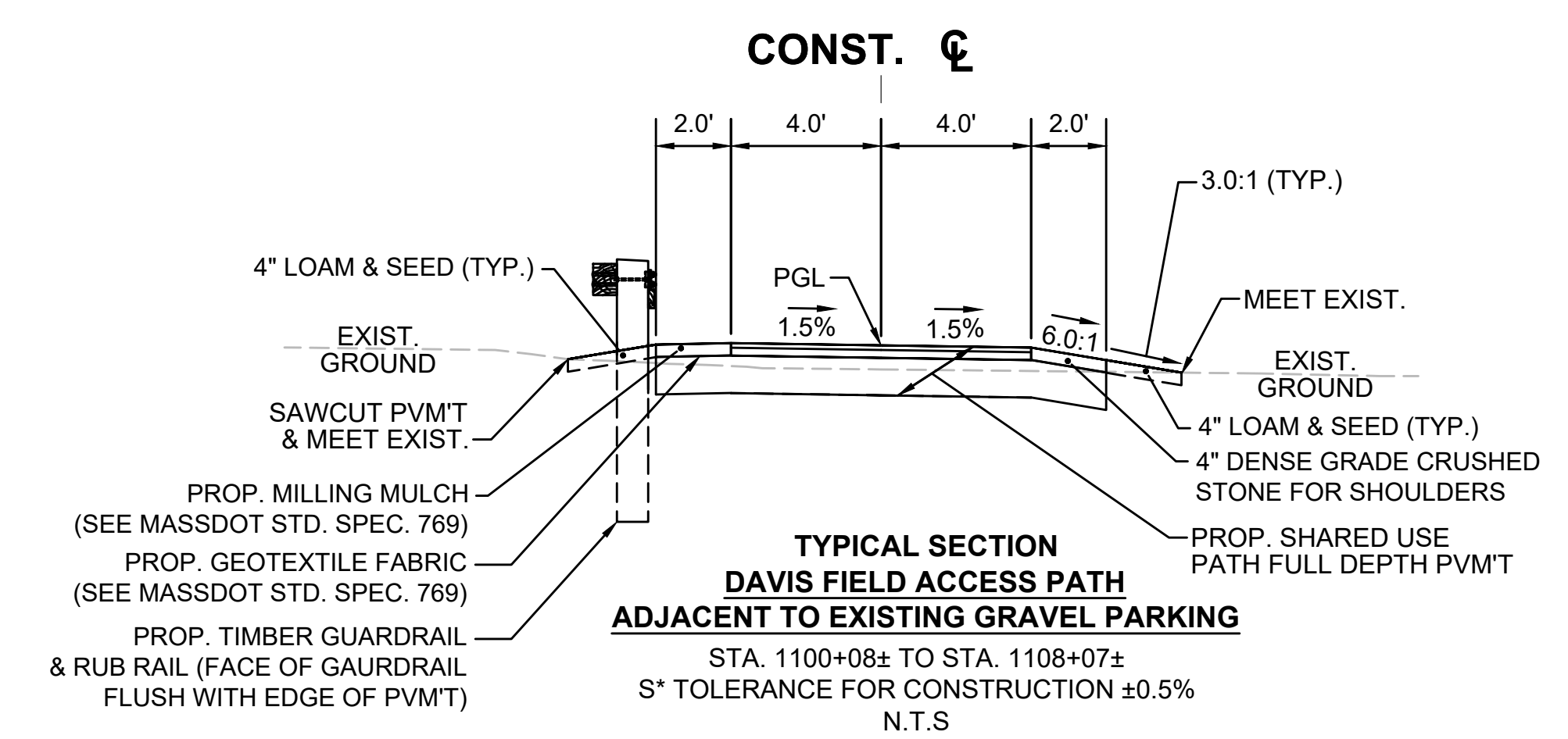
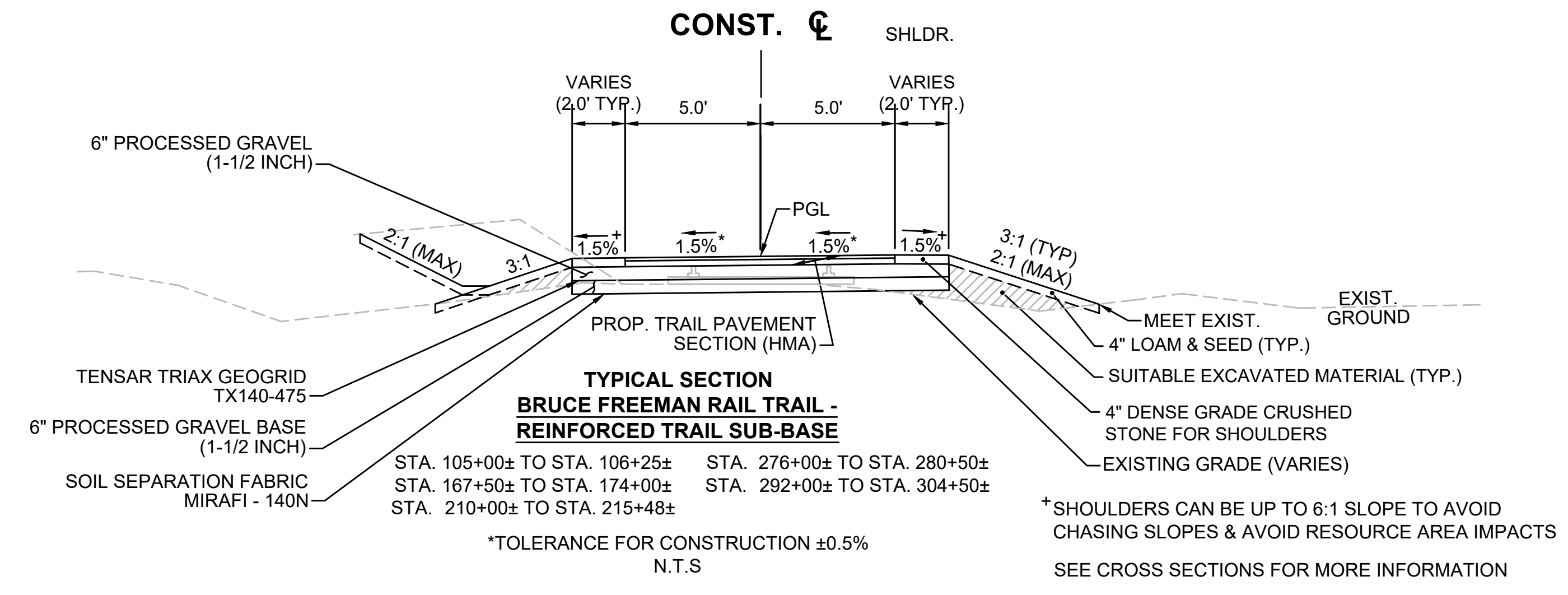


SEE SHEET 9 FOR PAVEMENT NOTES

**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

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MA	XXX-XXXX(XXX)X	5	43
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**FINAL RIGHT OF WAY
TYPICAL SECTIONS
SHEET 3 OF 5**



SEE CROSS SECTIONS FOR MORE INFORMATION
SEE GRADING PLANS FOR ELEVATIONS

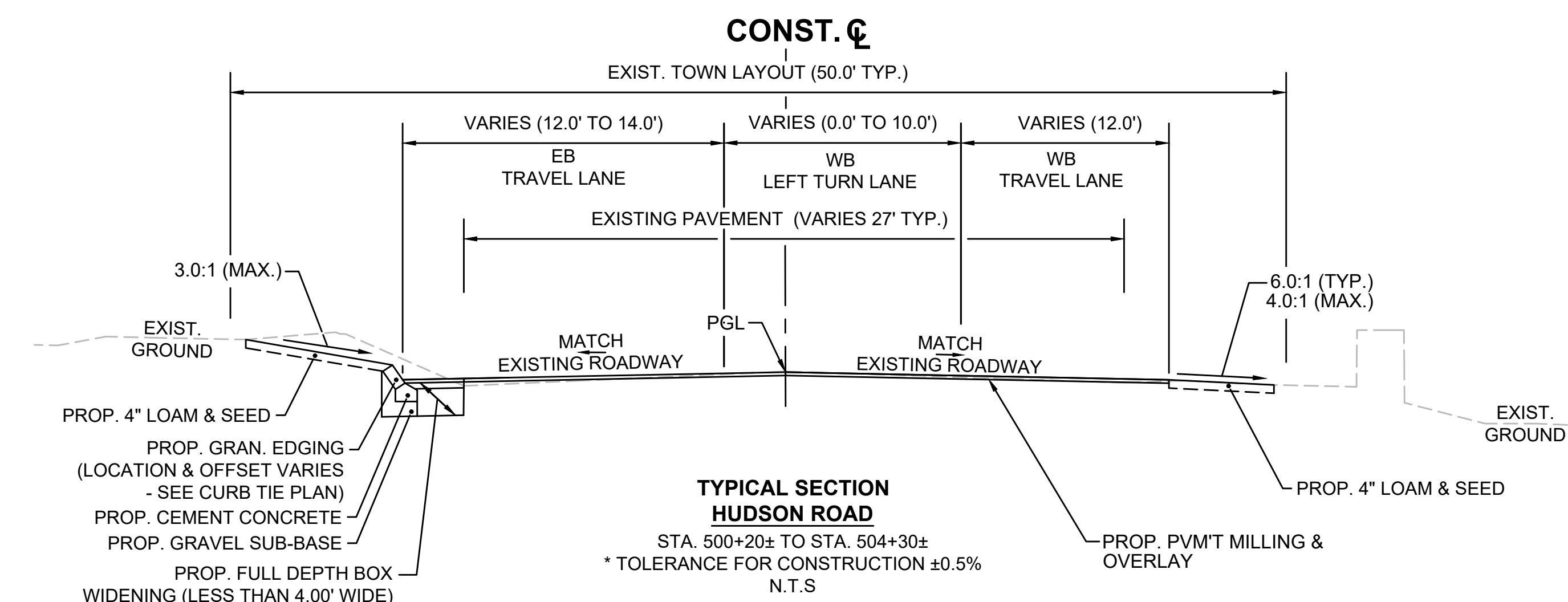
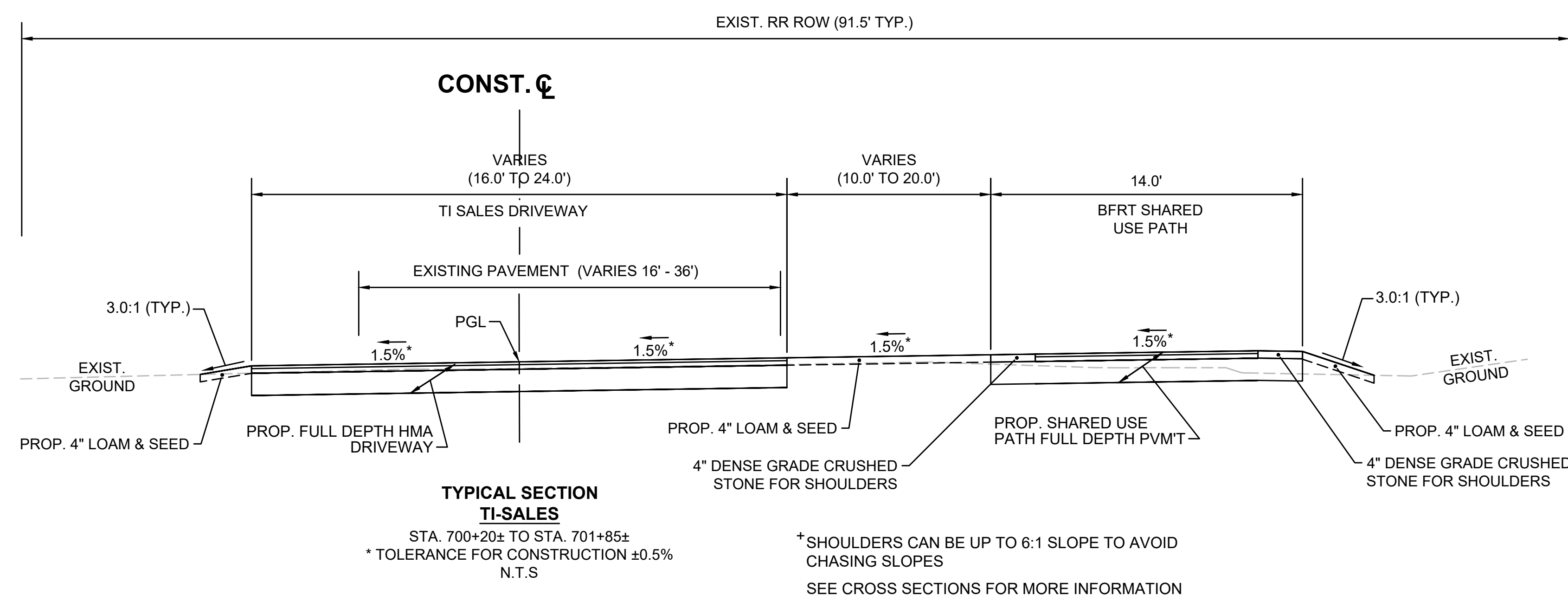
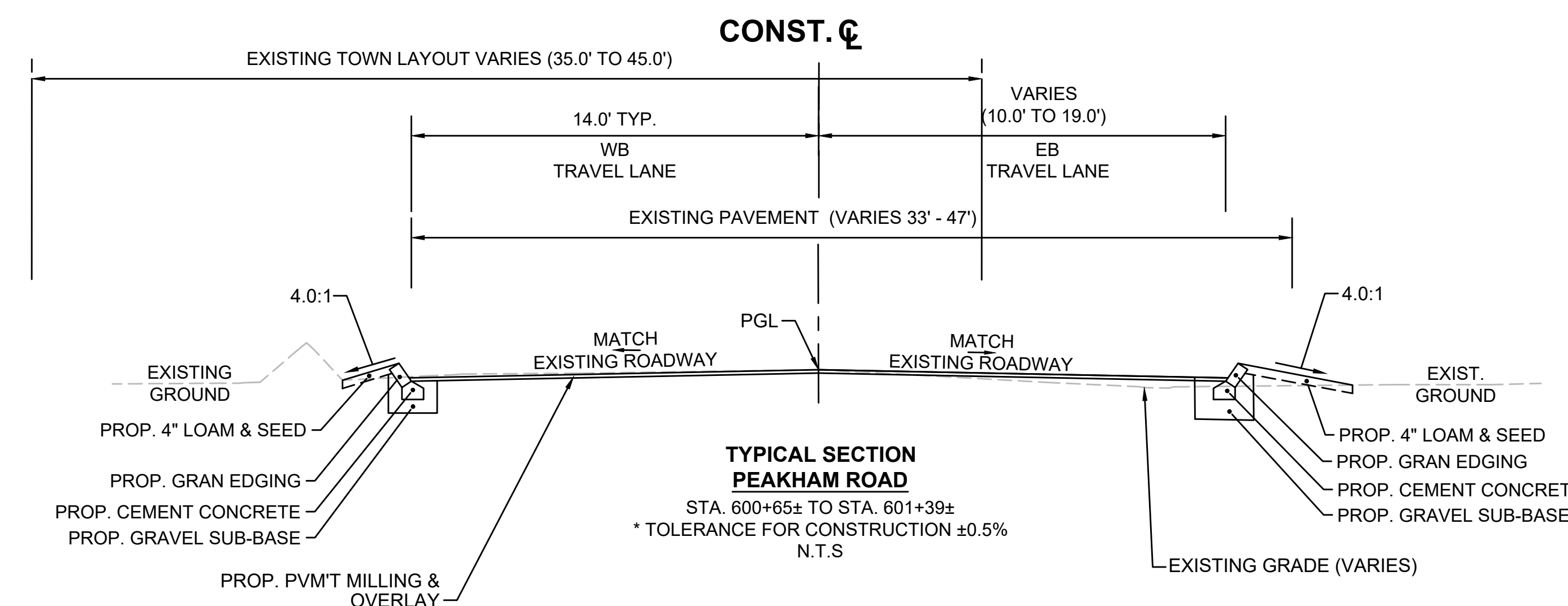
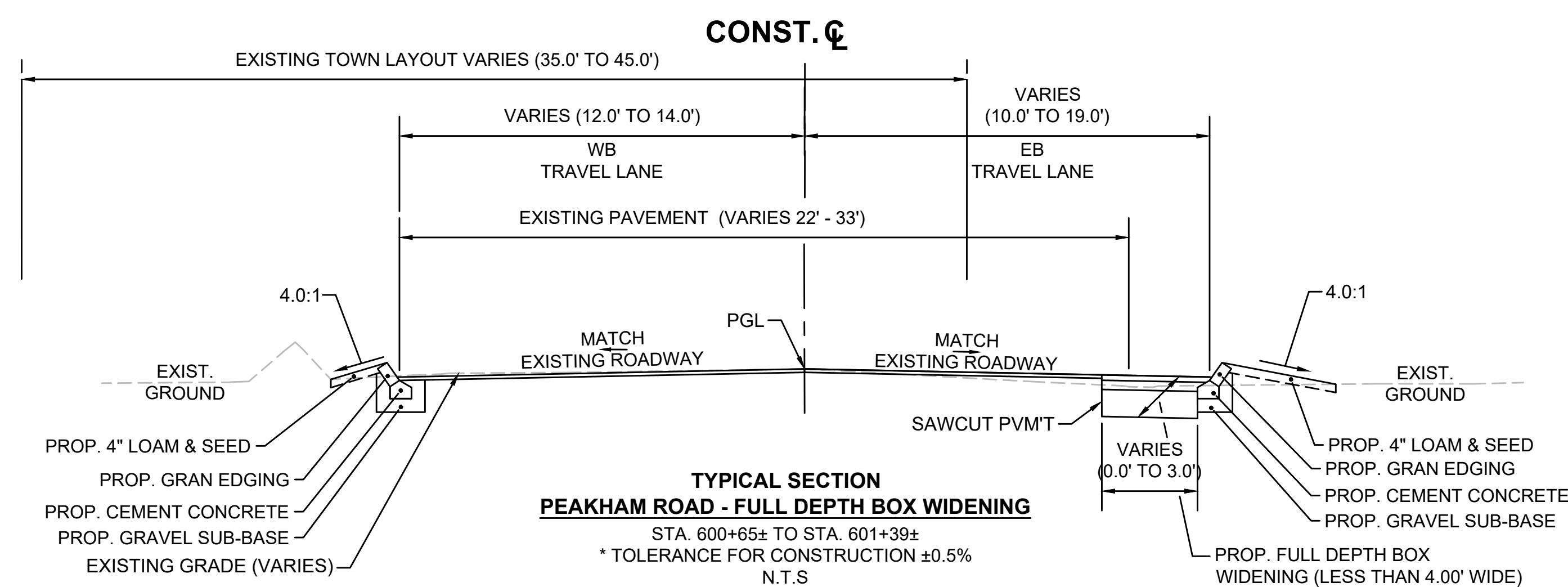
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**FINAL RIGHT OF WAY
TYPICAL SECTIONS
SHEET 4 OF 5**

3_608164_RW(TYPICAL SECTIONS).DWG Plotted on 15-Jan-2022 9:03 AM

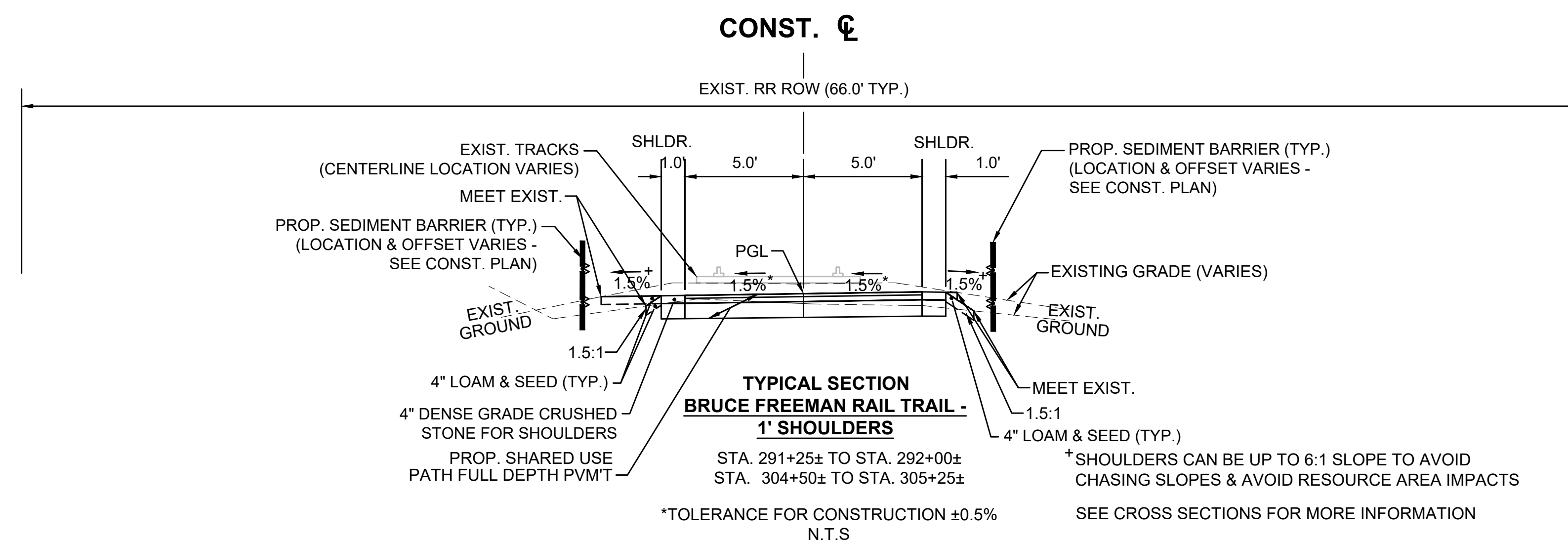


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**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

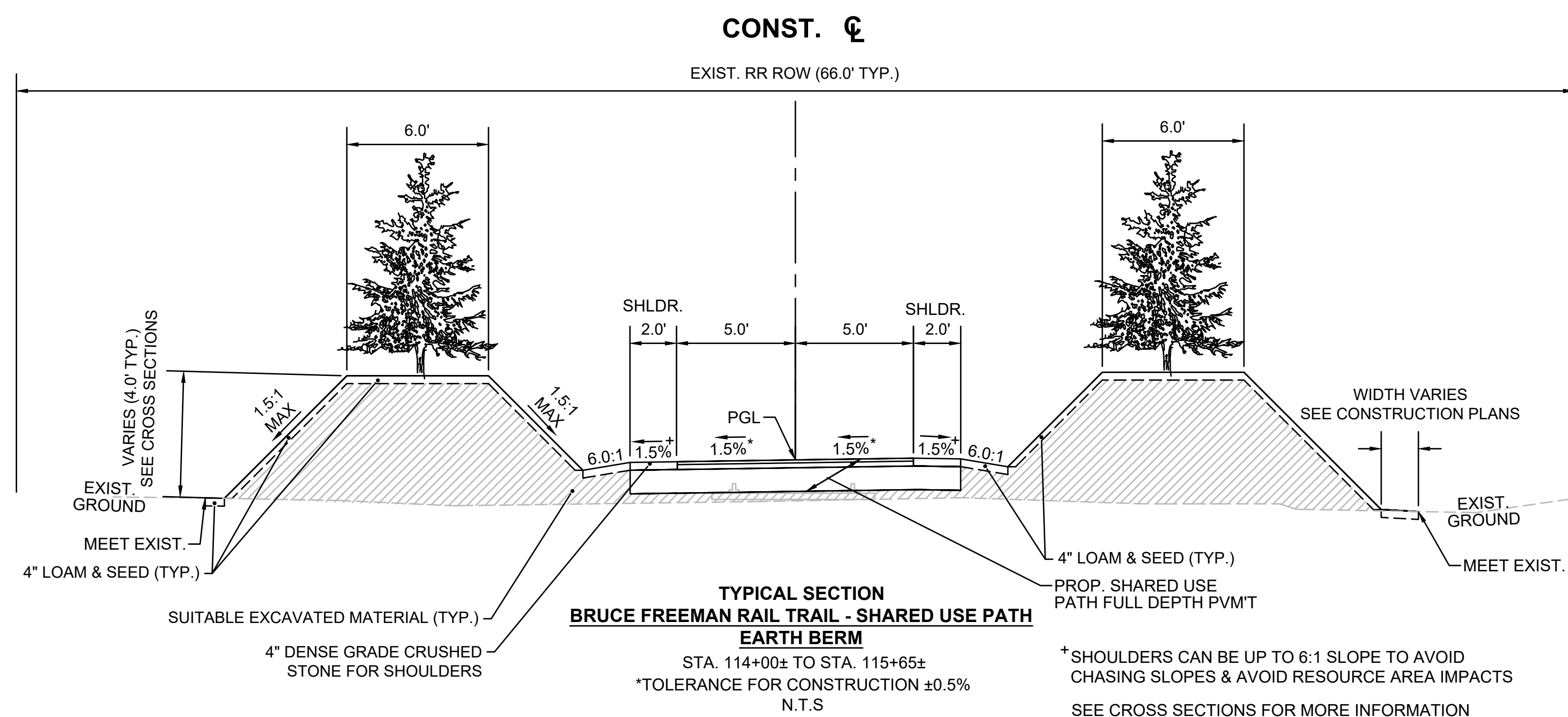
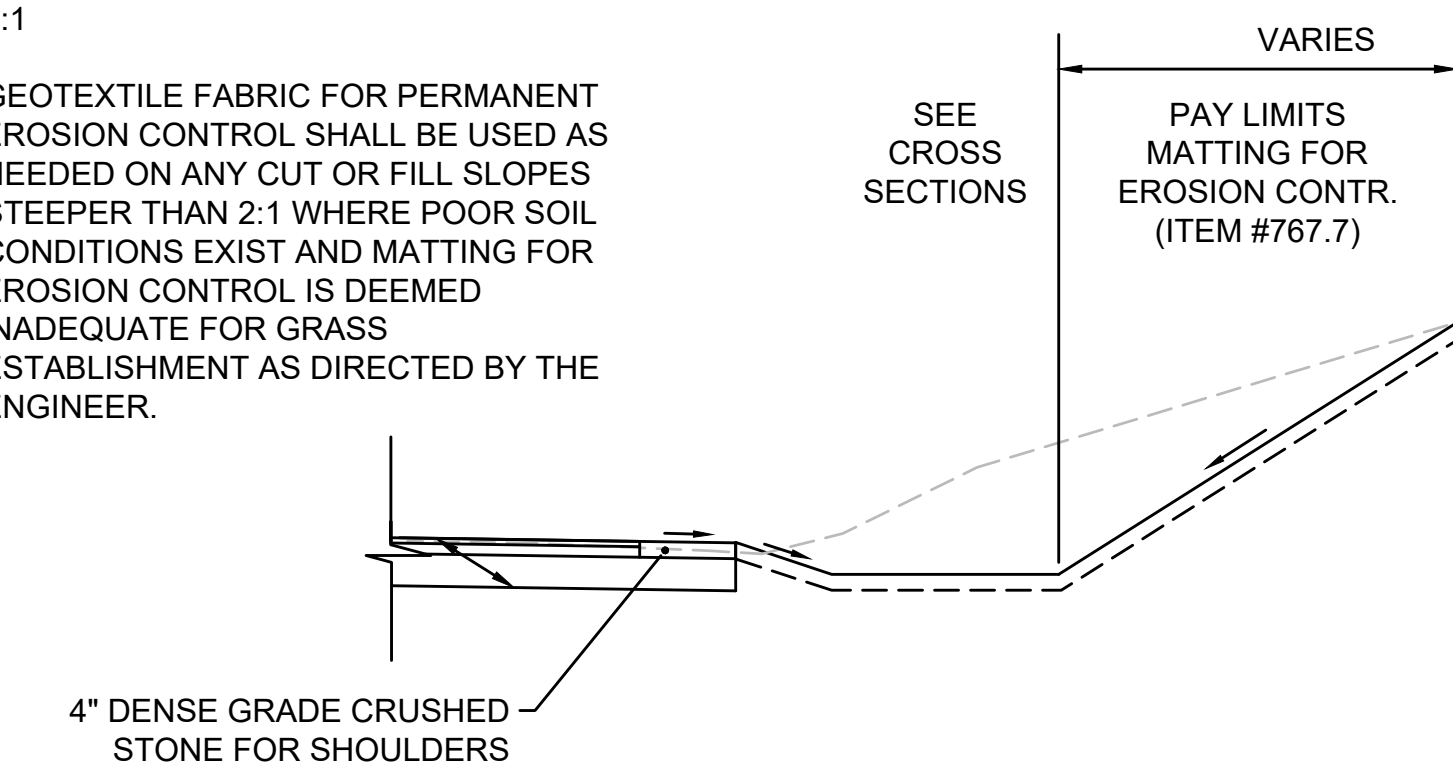
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	7	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
TYPICAL SECTIONS
SHEET 5 OF 5**

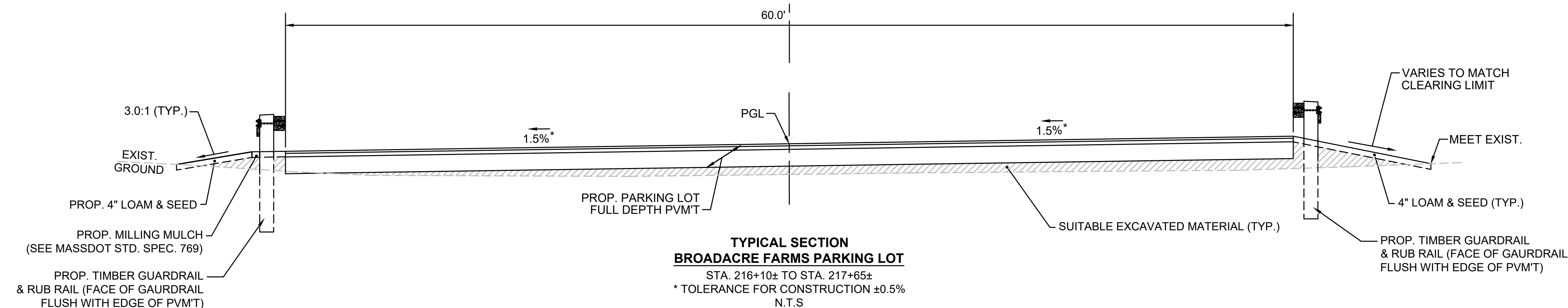


NOTES:

- 1) MATTING FOR EROSION CONTROL SHALL BE INSTALLED ON SIDE SLOPES THAT ARE 2:1
- 2) GEOTEXTILE FABRIC FOR PERMANENT EROSION CONTROL SHALL BE USED AS NEEDED ON ANY CUT OR FILL SLOPES STEEPER THAN 2:1 WHERE POOR SOIL CONDITIONS EXIST AND MATTING FOR EROSION CONTROL IS DEEMED INADEQUATE FOR GRASS ESTABLISHMENT AS DIRECTED BY THE ENGINEER.



CONST. ☉

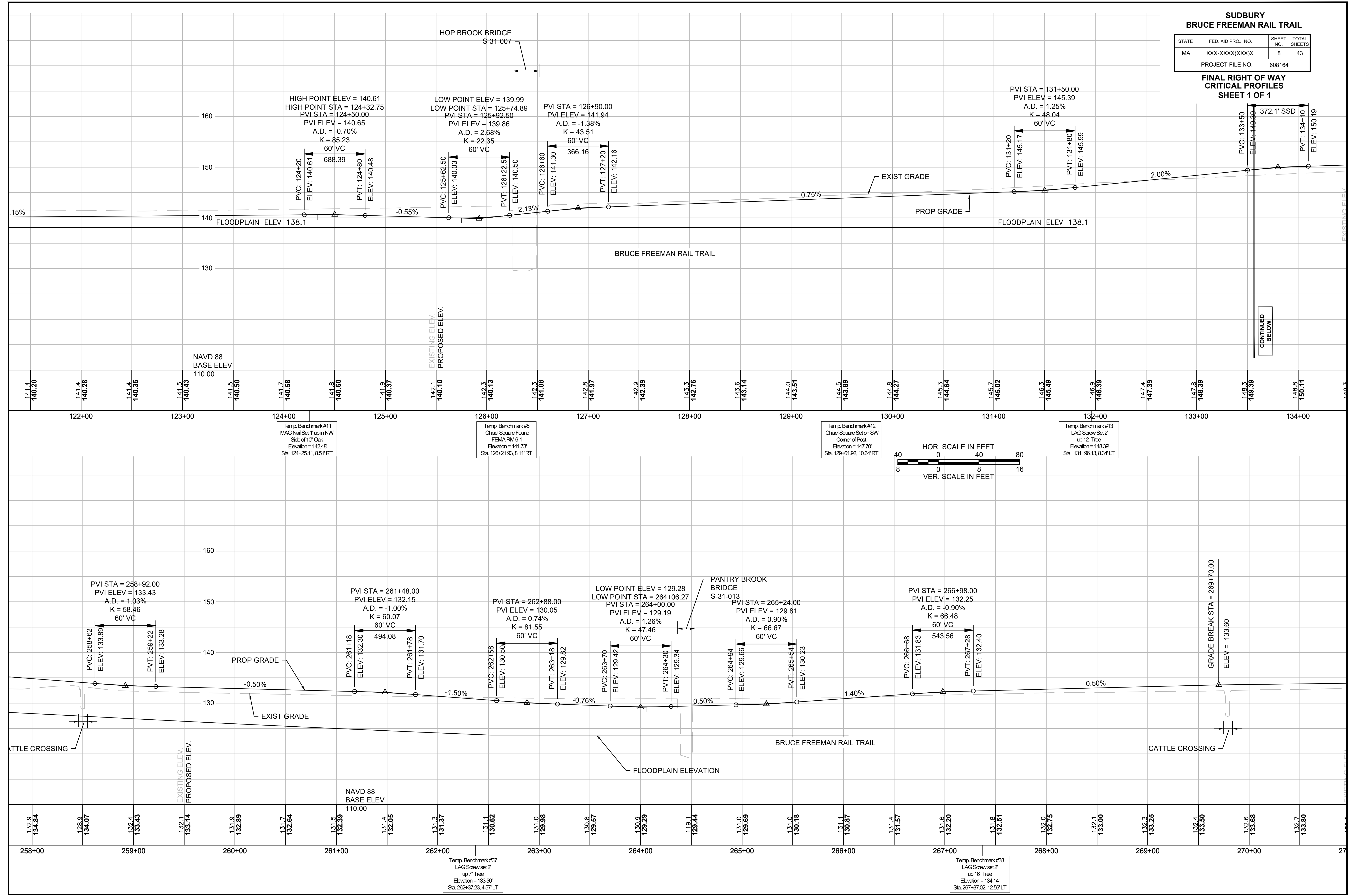


SEE SHEET 9 FOR PAVEMENT NOTES

**SUBBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	8	43
PROJECT FILE NO. 608164			

**FINAL RIGHT OF WAY
CRITICAL PROFILES
SHEET 1 OF 1**



**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXX(XXX)X	9	43
PROJECT FILE NO.		608164	

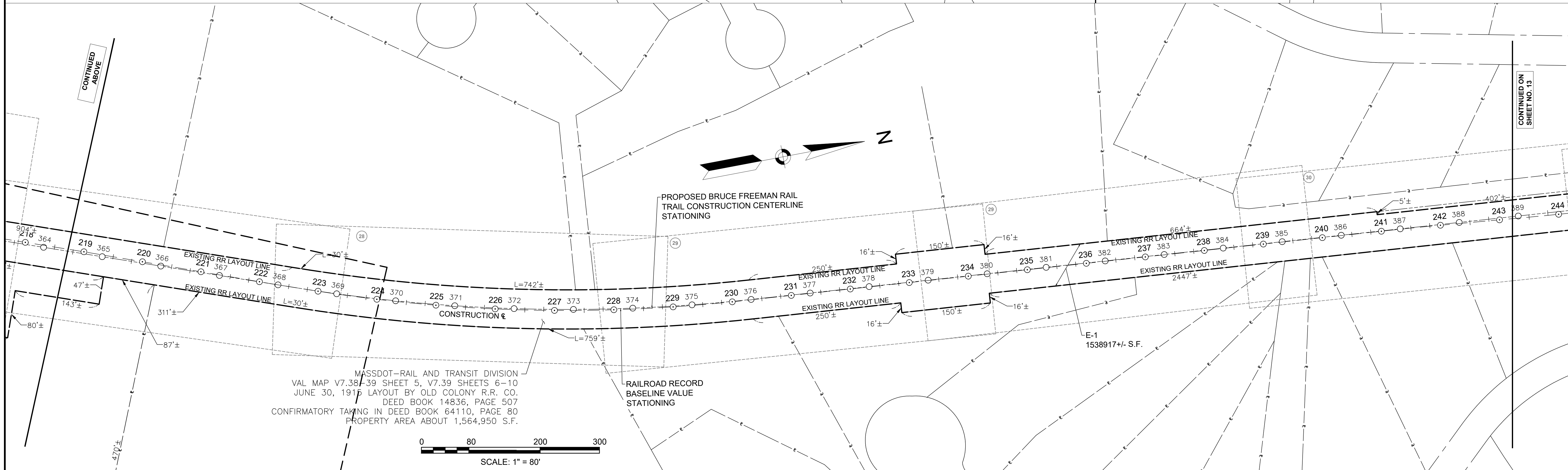
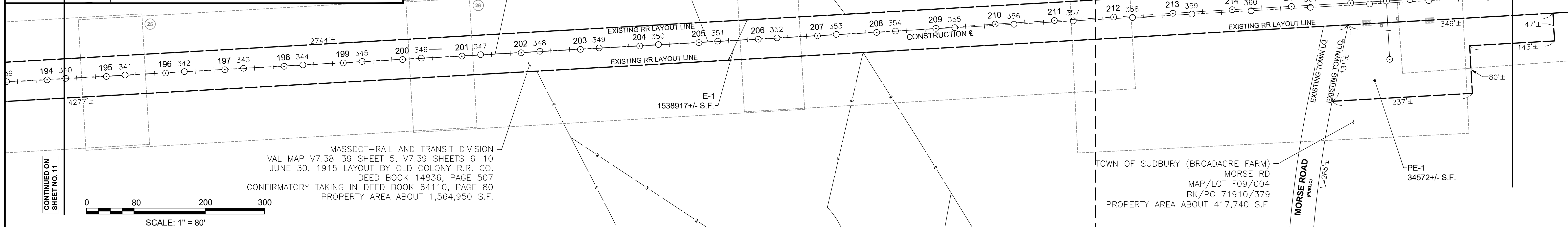
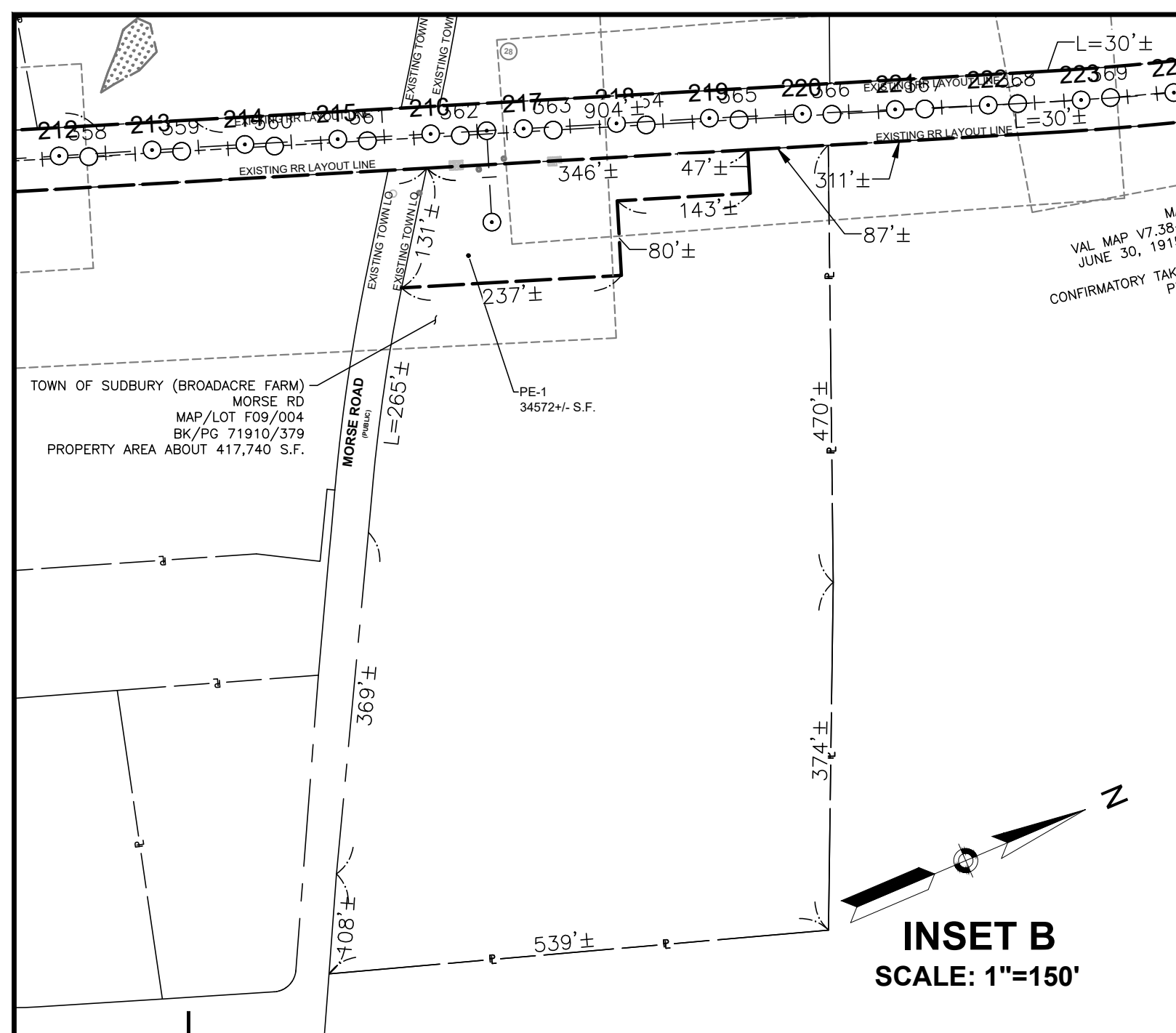
**FINAL RIGHT OF WAY
PARCEL SUMMARY SHEET**

PARCEL NO.	PLAN SHEET NO.	TITLEHOLDER	TITLE REFERENCE				AREA (S.F. +/-)						TOTAL PROPERTY AREA (S.F.)	FRONTAGE ON ROW PLAN (FT.)	PROPERTY ADDRESS	REMARKS	LAND RESTRICTION FROM THE DEED
			DEED BOOK	PAGE NO.	LCC NO.	CERT NO.	TAKEN		EASEMENT		TOTAL TAKEN	REMAINING					
							CITY	STATE	TYPE	AREA							
TE-1	15	CHISWICK PARK LLC & PARIS TRUST LLC	70761	297										125	0 UNION AVE	FOR CONSTRUCTION VEHICLE ACCESS TO THE TRAIL	
TE-2	15	MASS BAY TRANSPORTATION	13117	113										47	RAILWAY	FOR CONSTRUCTION VEHICLE ACCESS TO THE TRAIL	
E-1	15-41	MASSDOT-RAIL AND TRANSIT DIVISION	14836 64110	507 80								1564950				FOR CONSTRUCTION AND MAINTENANCE OF THE PATH AND GRADING OF SLOPES WITHIN THE RAIL DIVISION LAYOUT	RAILROAD RIGHT OF WAY
E-2	15	MASSDOT-RAIL AND TRANSIT DIVISION	14836	507								2213				FOR ACCESS TO PROJECT WORK ZONE AND FUTURE MAINTENANCE ACCESS WITHIN RAIL DIVISION	RAILROAD RIGHT OF WAY
TE-3	16	LAURA B MCCARTHY & ALL TRUSTEES OF THE CAS TRUST	26825	536										29	UNION AVE	FOR CONSTRUCTION ACCESS TO INSTALL GRANITE EDGING AT 71 UNION AVE DRIVEWAY	
TE-4	23	LINDA LOUISE MURI	66273	460										37	623 PEAKHAM RD	FOR CONSTRUCTION ACCESS TO REPLACE EXISTING SIDEWALK ON CORNER OF HUDSON RD/PEAKHAM RD	
TE-5	23	29 HUDSON ROAD LLC	58156	562										194	29 HUDSON RD	FOR DRIVEWAY APRON RECONSTRUCTION ASSOCIATED WITH RECONFIGURATION OF HUDSON RD/PEAKHAM RD TRAFFIC SIGNAL	
TE-6	23	PENN CENTRAL TRANSPORTATION CO	33228	333										30	40 HUDSON RD	FOR GRADING OF SLOPES (3:1 MAX) & LOAM AND SEED	
TWLR-1	27	TOWN OF SUDBURY & BOARD OF SELECTMEN (BROADACRE FARM HOUSE)	72906	476										107	82 MORSE RD	FOR REPLICATION AND TEMPORARY MAINTENANCE OF WETLANDS (10 YEARS)	
PE-1	27	TOWN OF SUDBURY (BROADACRES FARM)	71910	379										477	MORSE RD	FOR CONSTRUCTION AND MAINTENANCE OF BROADACRES FARM PARKING LOT AND ASSOCIATED INFRASTRUCTURE: SIGNS, MARKINGS, GUARDRAILS, CURBS, PAVEMENT, STORMWATER MANAGEMENT FOR PARKING LOT, WATERLESS RESTROOM FACILITY, BIKE RACKS, BENCHES, LIGHTING, AND LANDSCAPING	INSTRUMENT TO BE A DEDICATION
TE-7	27	TOWN OF SUDBURY (BROADACRES FARM)	71910	379										-	MORSE RD	FOR GRADING OF SLOPES (3:1 MAX) & LOAM AND SEED	
TE-8	33	STEPHEN & JOAN VERRILL	14819	188										136	HAYNES RD	FOR TREE TRIMMING ALONG HAYNES ROAD FOR IMPROVED SIGHT DISTANCE AT TRAIL CROSSING	
BP-1	42	TOWN OF SUDBURY (TREASURER)	13489	604										24	HUDSON RD	FOR CONSTRUCTION AND MAINTENANCE OF 10' WIDE PAVED ACCESS PATH AT PARKINSON'S CONS INCLUDING AREA PARKING LOT & ASSOCIATED LANDSCAPING/AMENITIES AT TRAILHEAD	INSTRUMENT TO BE A DEDICATION
TE-9	42	TOWN OF SUDBURY (TREASURER)	13489	604										31	HUDSON RD	FOR PLANTINGS AND GRADING OF SLOPES (3:1 MAX) & LOAM AND SEED	
TE-10	42	TOWN OF SUDBURY (TREASURER)	13489	604										34	HUDSON RD	FOR GRADING OF SLOPES (3:1 MAX) & LOAM AND SEED	
BP-2	43	TOWN OF SUDBURY (CONSERVATION)	12754	314										221	NORTH RD	FOR CONSTRUCTION AND MAINTENANCE OF DAVIS FIELD ACCESS PATH	
BP-3	43	TOWN OF SUDBURY (DAVIS FIELD PARK & REC)	12913	150										235	195 NORTH RD	FOR CONSTRUCTION AND MAINTENANCE OF DAVIS FIELD ACCESS PATH	
TE-11	43	TOWN OF SUDBURY (DAVIS FIELD PARK & REC)	12913	150										-	195 NORTH RD	FOR TREE TRIMMING ALONG PROPOSED DAVIS FIELD ACCESS APTH TO IMPROVE SIGHT DISTANCE	

**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXX(XXX)X	12	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
LOCATION PLANS
SHEET 3 OF 5**



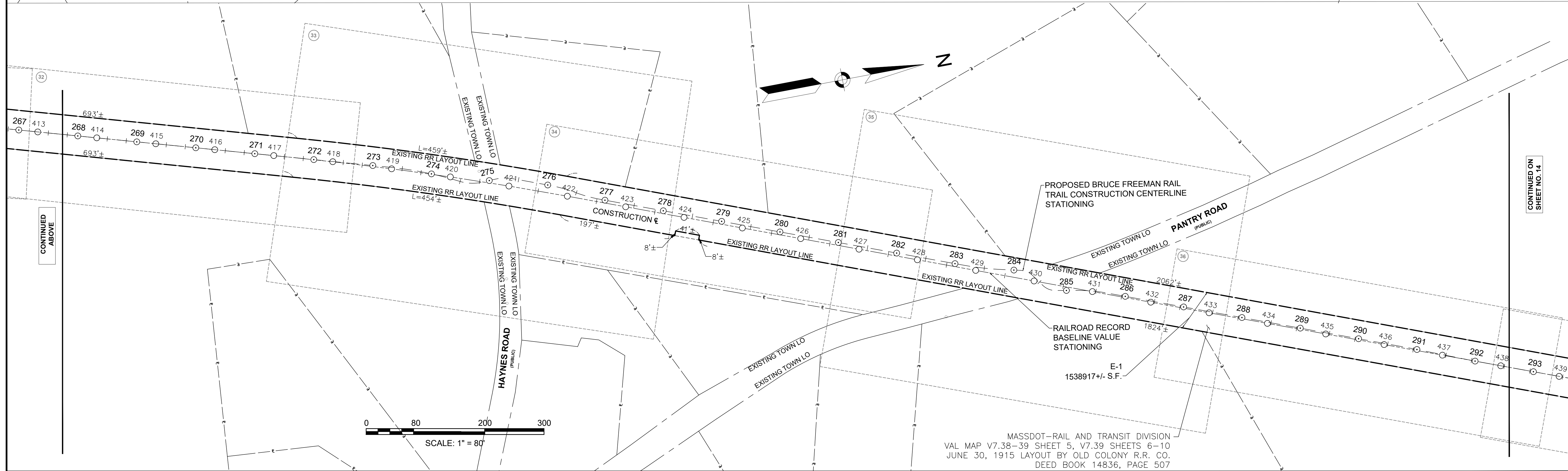
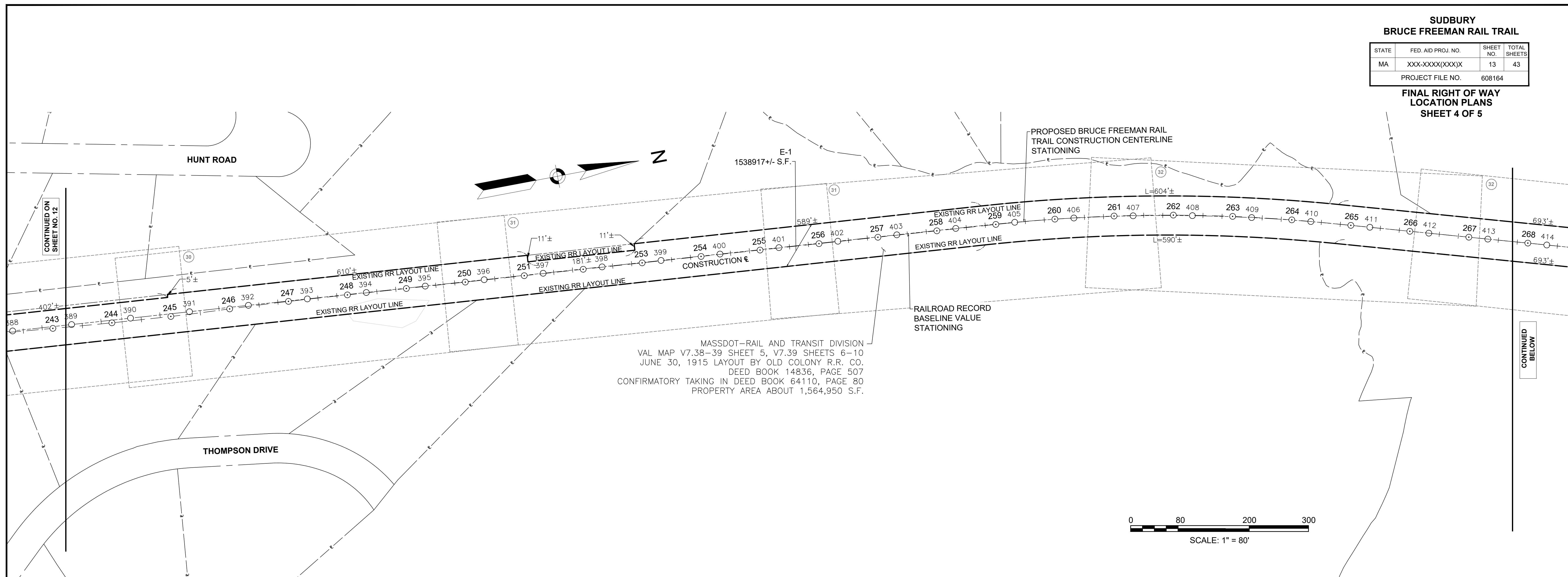
CONTINUED
BELOW

CONTINUED ON
SHEET NO. 13

**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	13	43
PROJECT FILE NO.		608164	

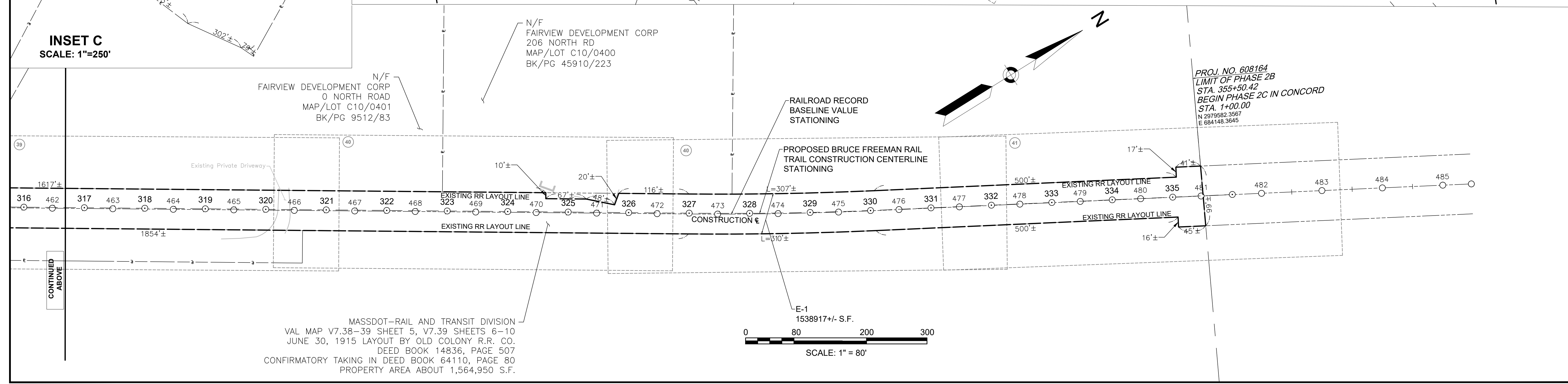
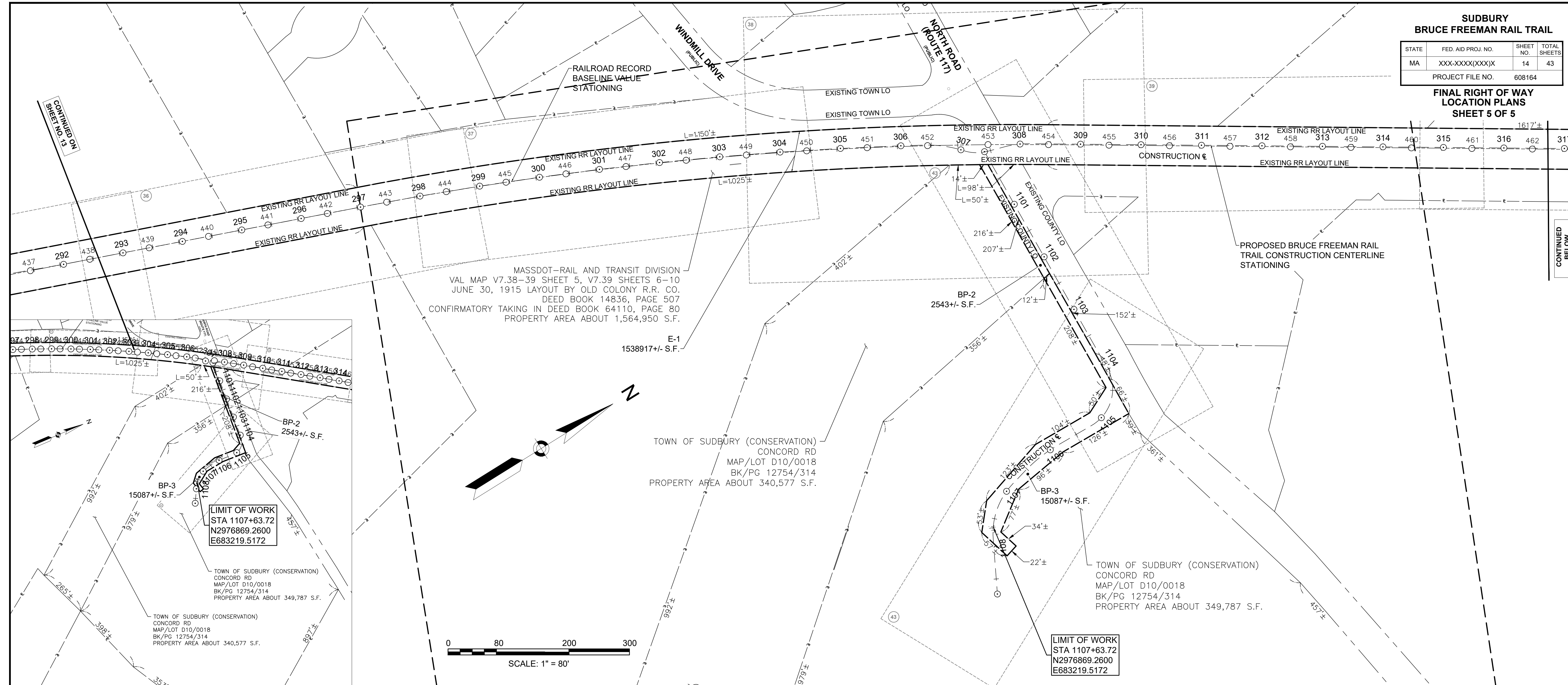
**FINAL RIGHT OF WAY
LOCATION PLANS
SHEET 4 OF 5**



**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	14	43
PROJECT FILE NO. 608164			

**FINAL RIGHT OF WAY
LOCATION PLANS
SHEET 5 OF 5**



CONTINUED ON
SHEET 13

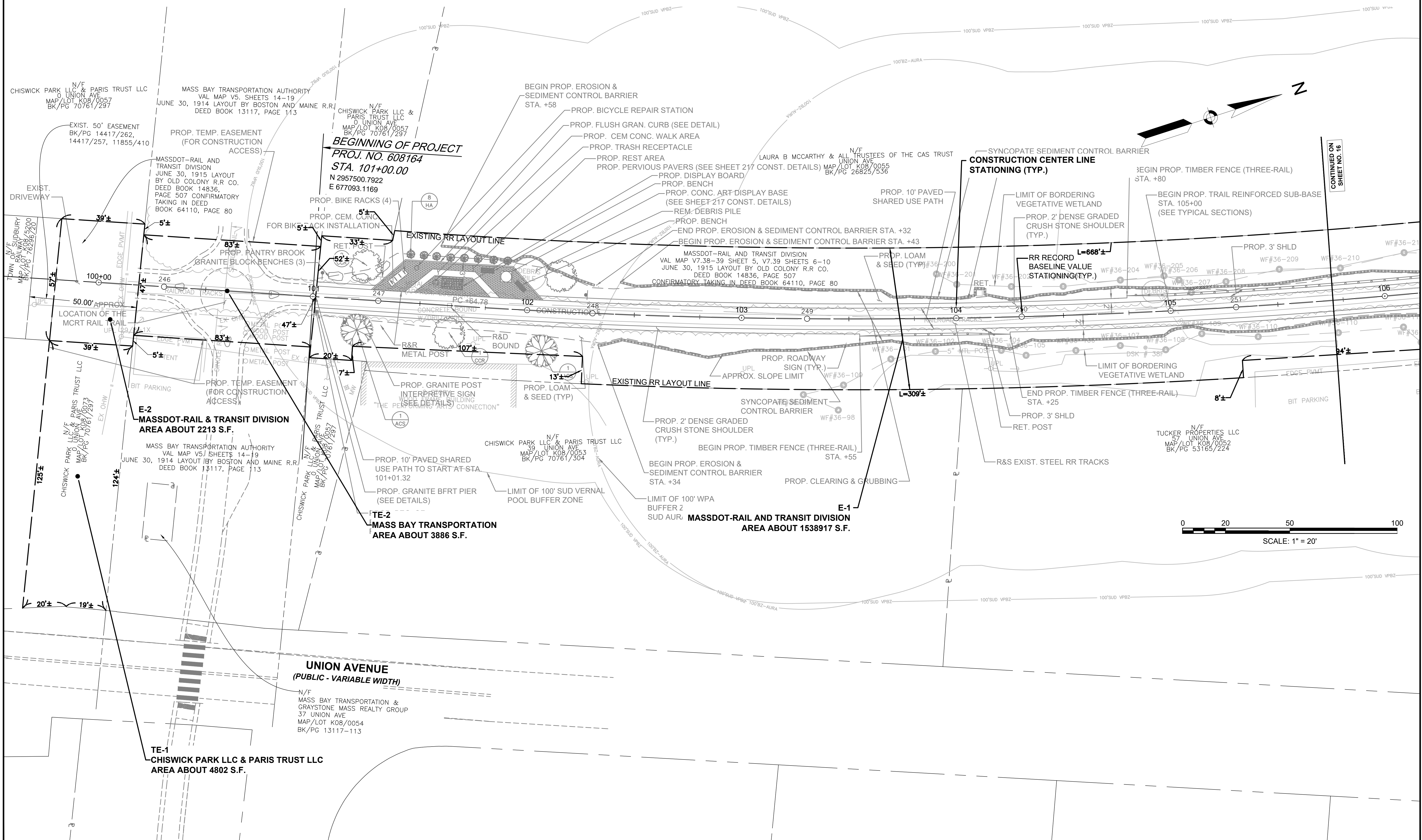
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ABOVE

**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	15	43
PROJECT FILE NO.		608164	

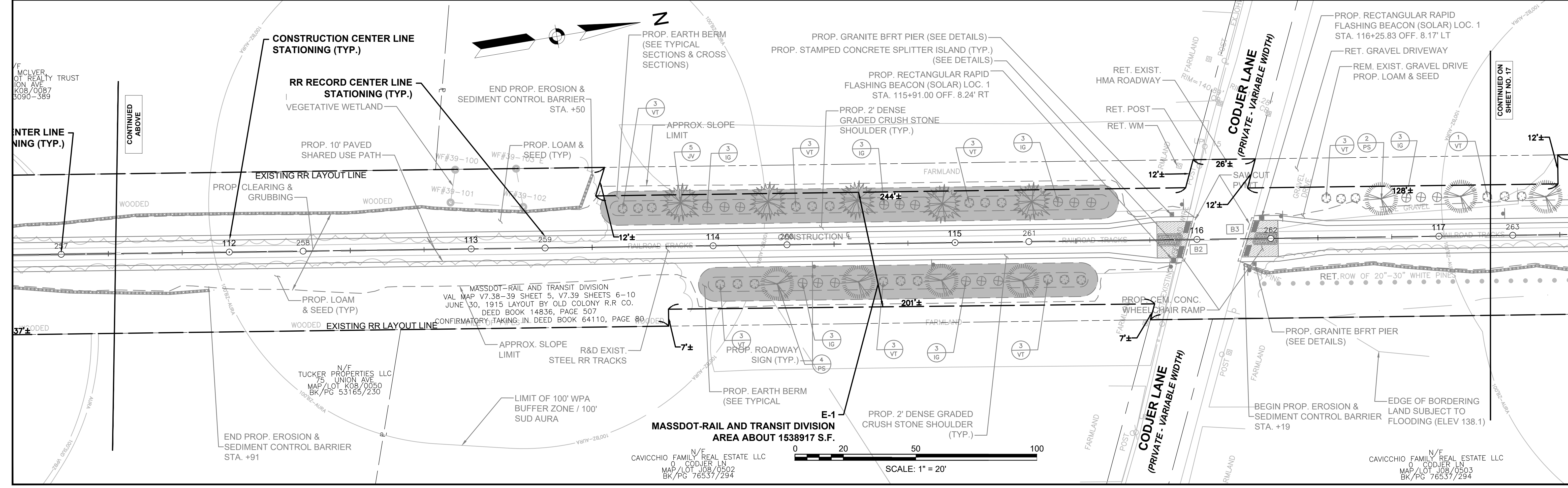
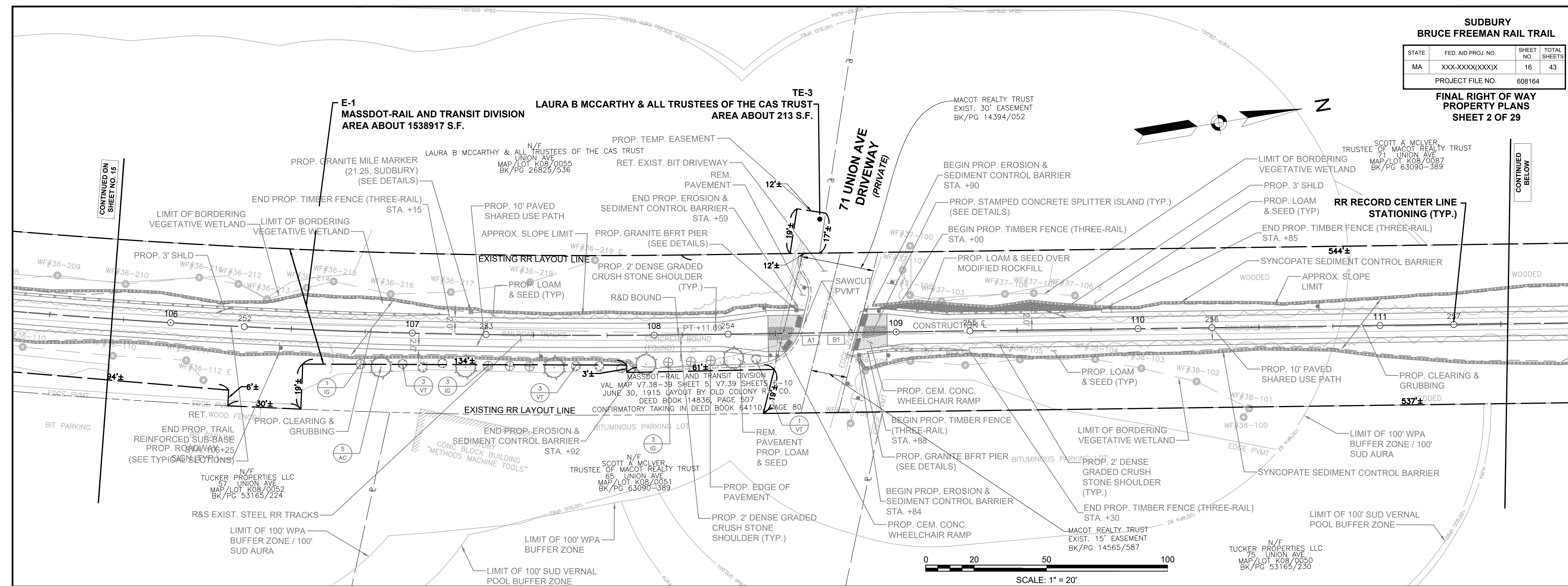
**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 1 OF 29**



**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	16	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 2 OF 29**



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CONTINUED ON
SHEET NO. 16

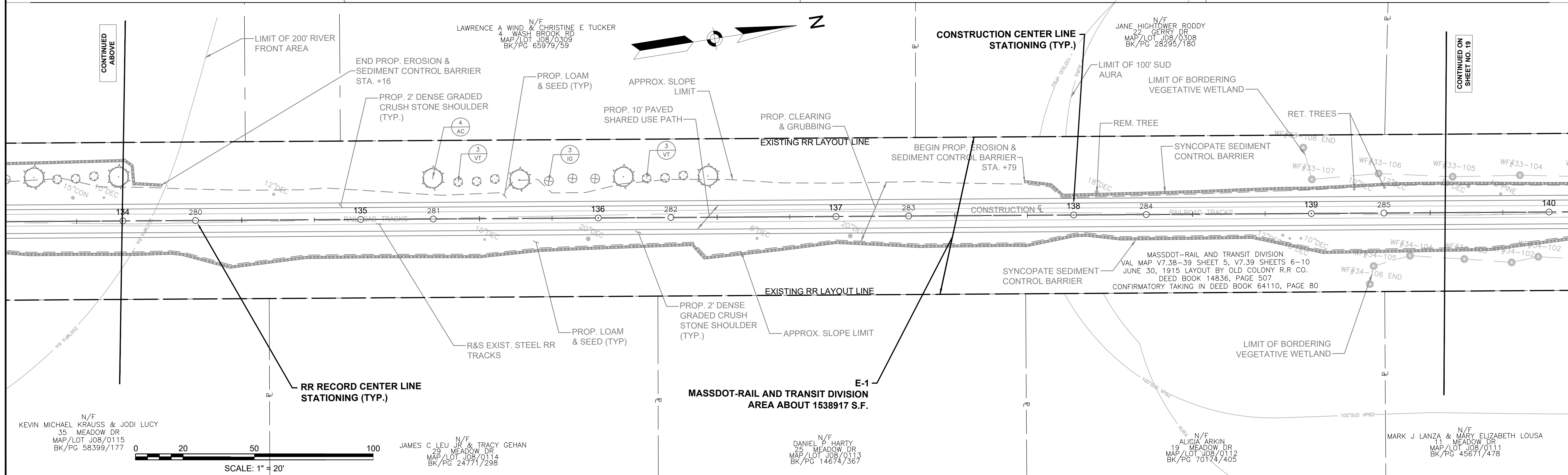
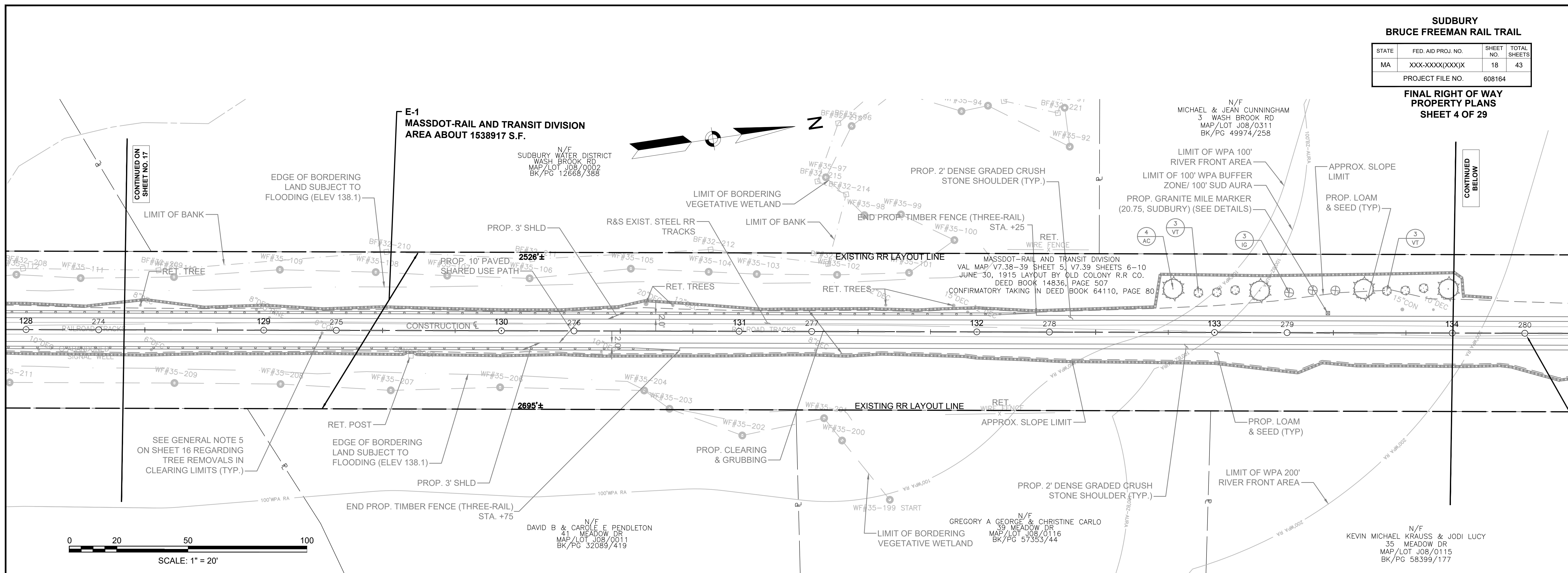
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ABOVE

CONTINUED ON
SHEET NO. 17

SUDBURY BRUCE FREEMAN RAIL TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	18	43
PROJECT FILE NO.		608164	

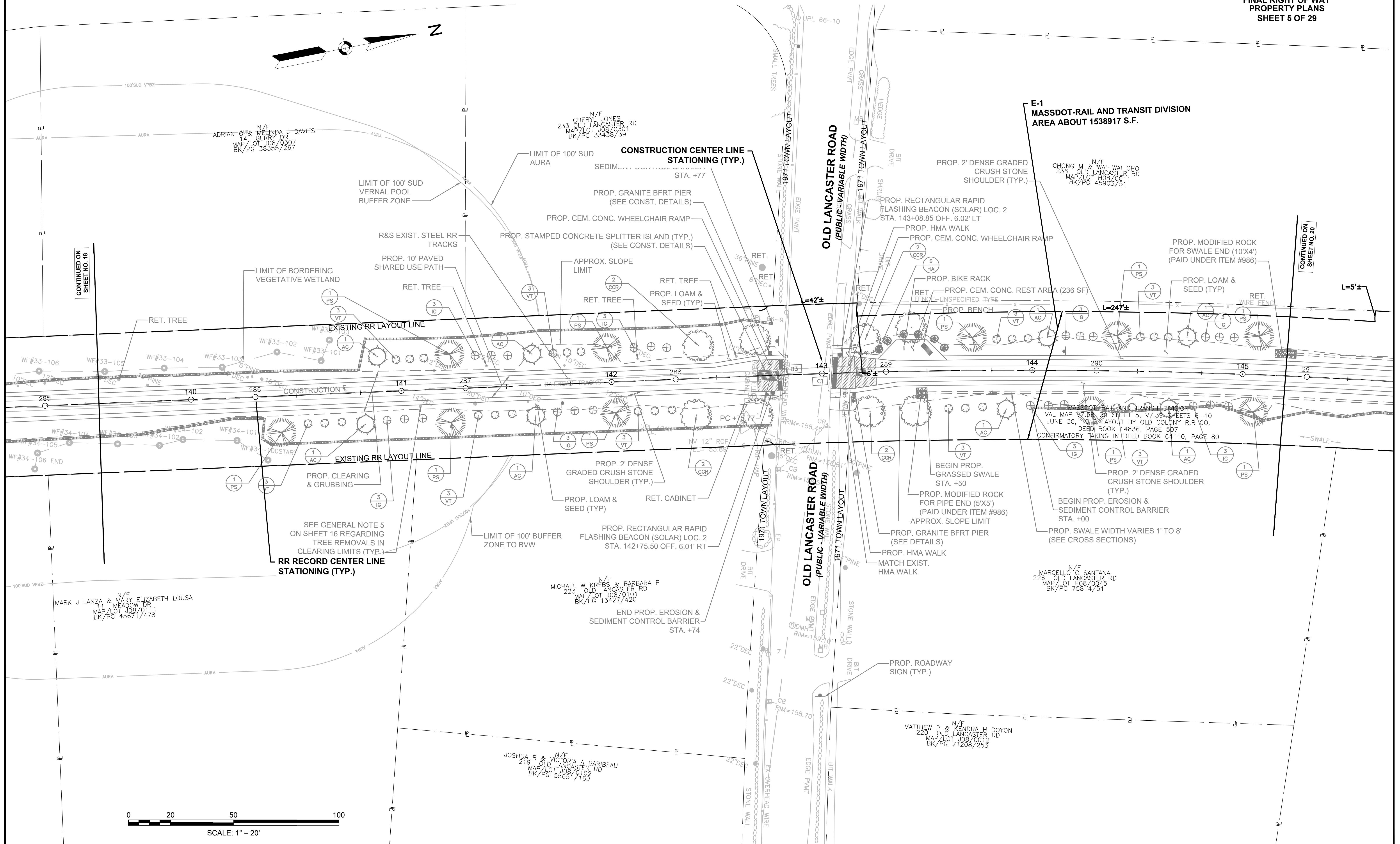
**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 4 OF 29**



SUDBURY BRUCE FREEMAN TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXX(XXX)X	19	43
PROJECT FILE NO.		608164	

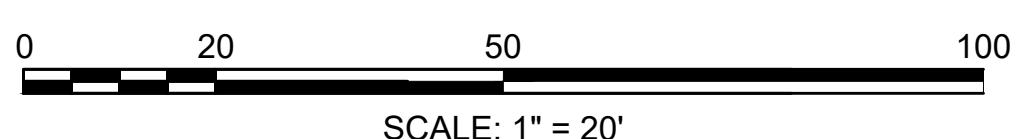
**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 5 OF 29**

**E-1
MASSDOT-RAIL AND TRANSIT DIVISION
AREA ABOUT 1538917 S.F.**



CONTINUED ON
SHEET NO. 18

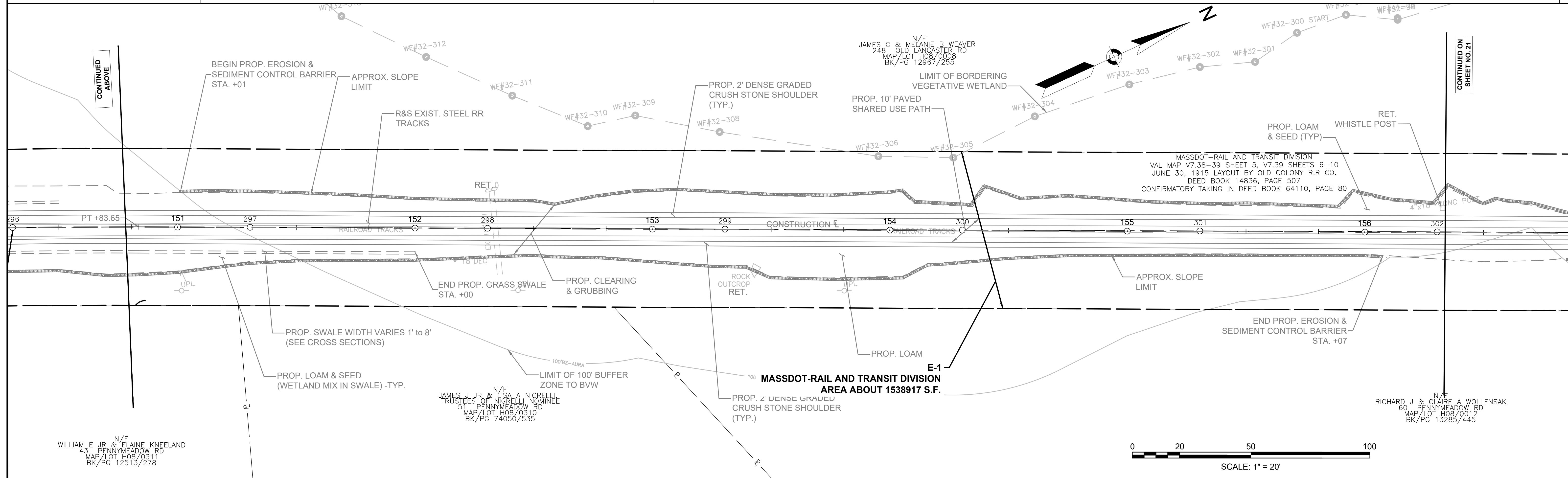
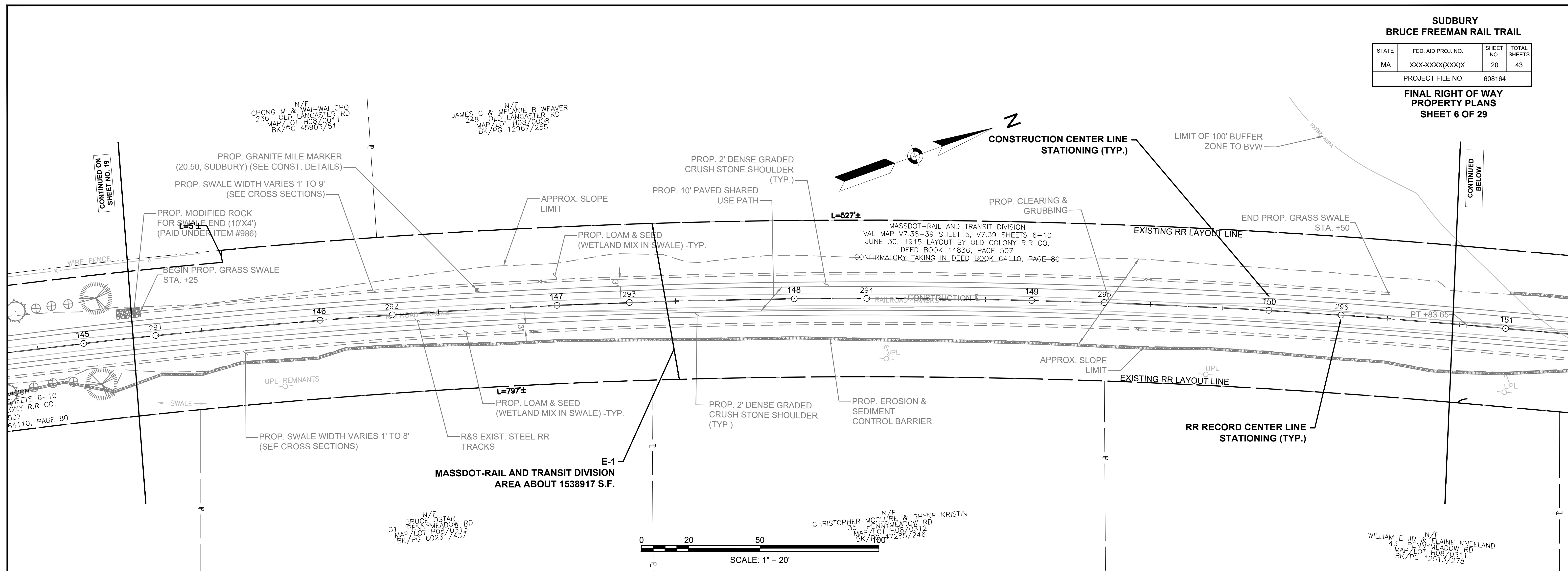
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SHEET NO. 20



**SUDBURY
BRUCE FREEMAN TRAIL**

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MA	XXX-XXXX(XXX)X	20	43
PROJECT FILE NO.		608164	

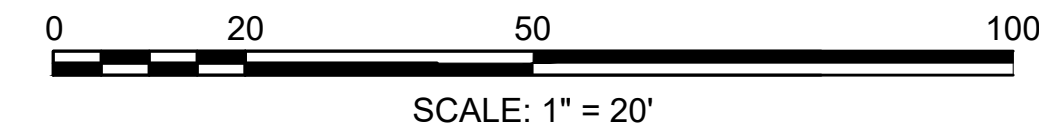
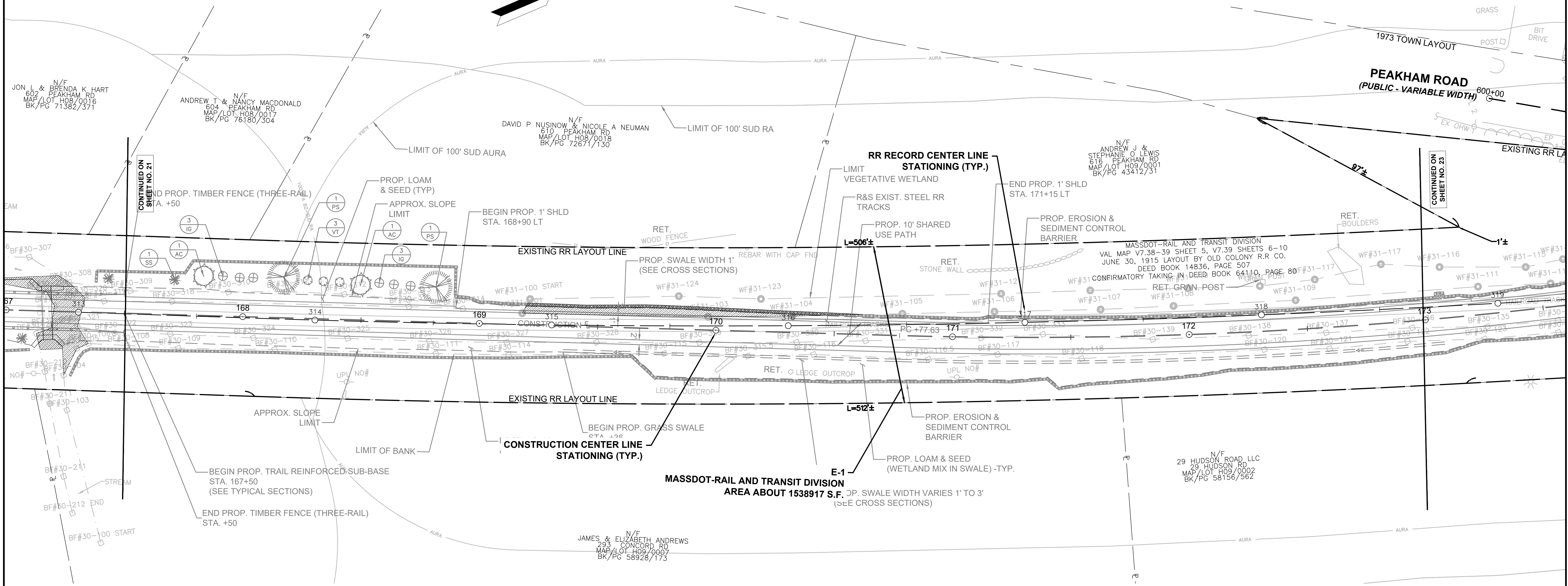
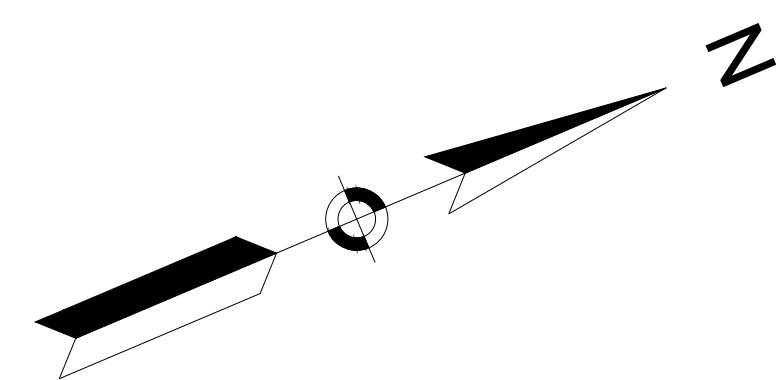
**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 6 OF 29**



**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	22	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 8 OF 29**



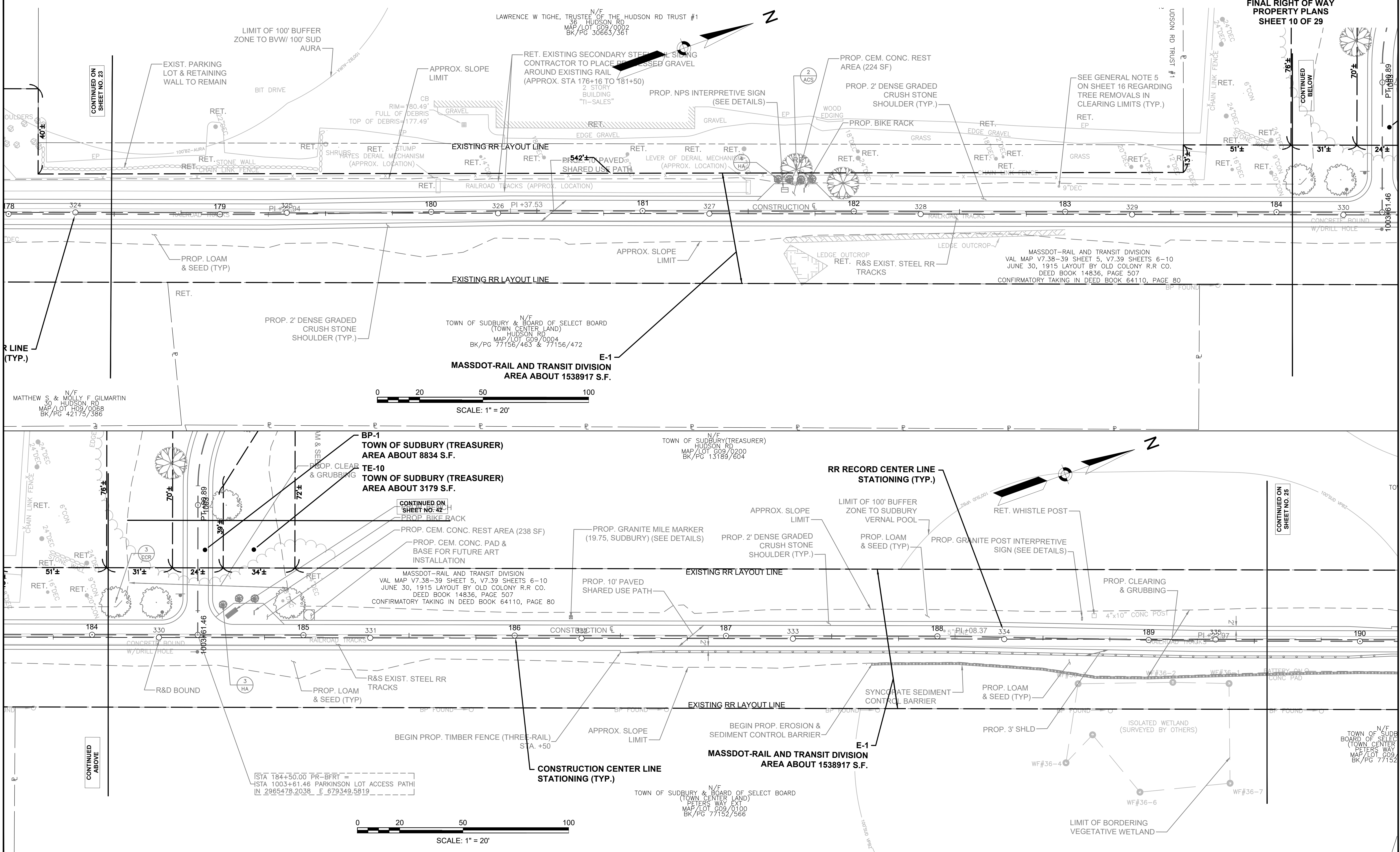
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CONTINUED ON SHEET NO. 23

**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	24	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 10 OF 29**



CONTINUED ON
SHEET NO. 23

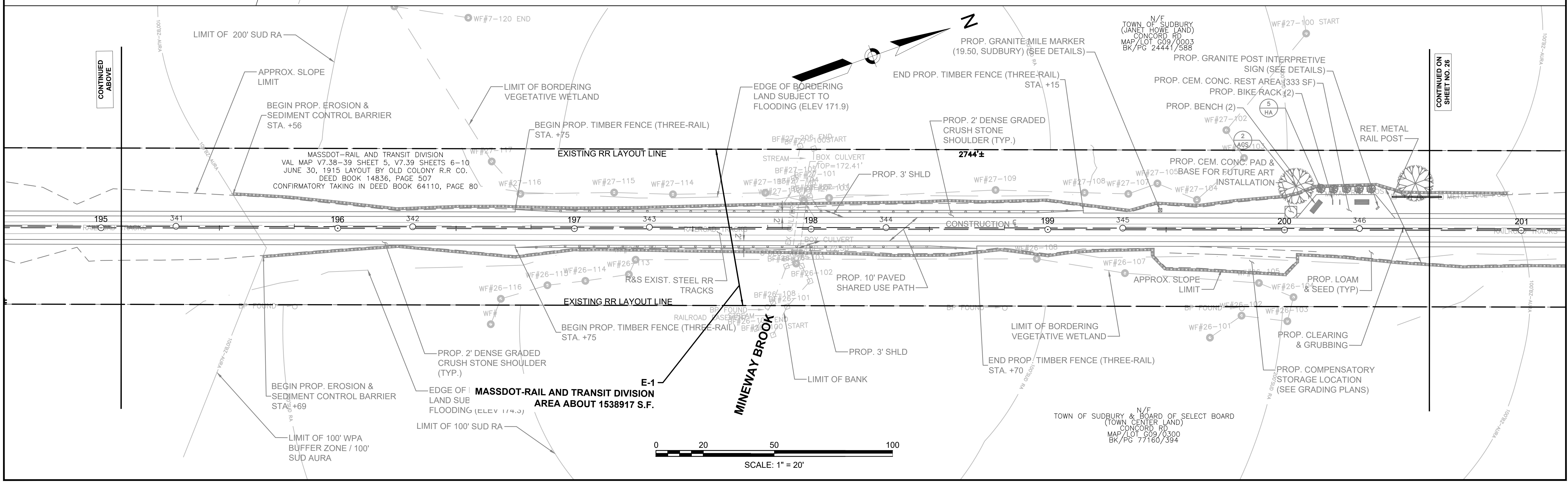
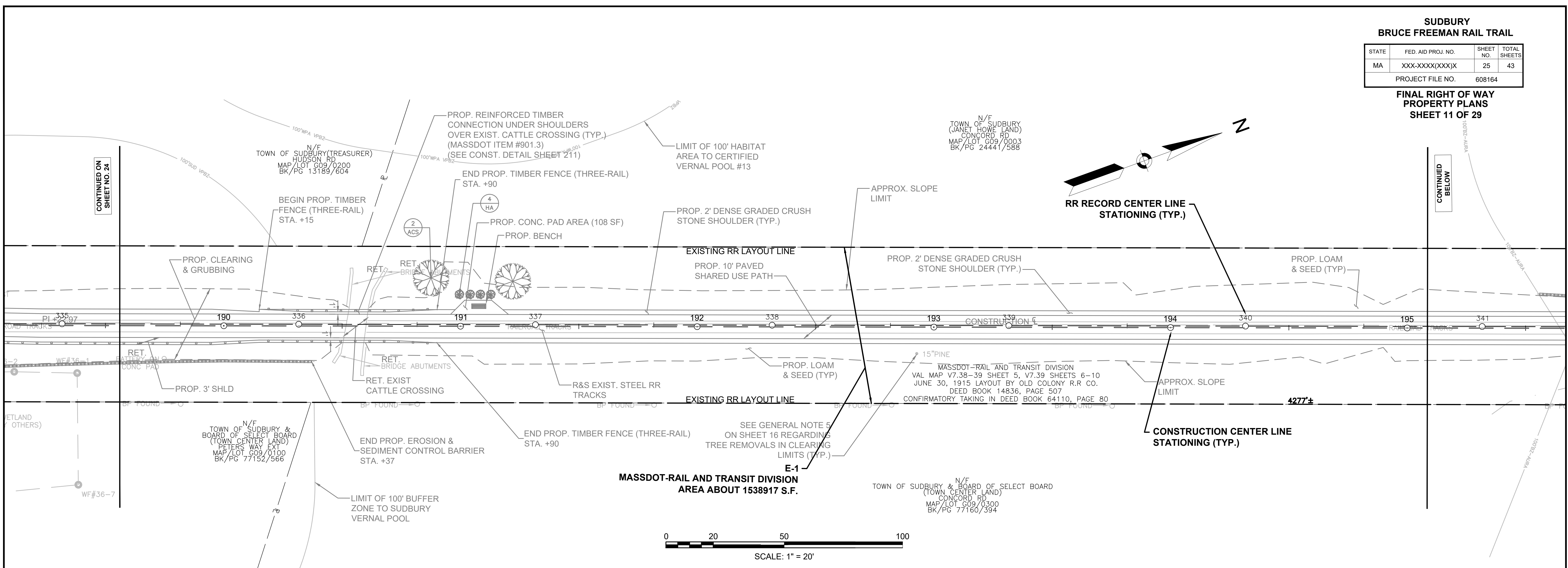
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SHEET NO. 15

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ABOVE

SUDBURY BRUCE FREEMAN RAIL TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	25	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 11 OF 29**



CONTINUED ON
SHEET NO. 24

CONTINUED
BELOW

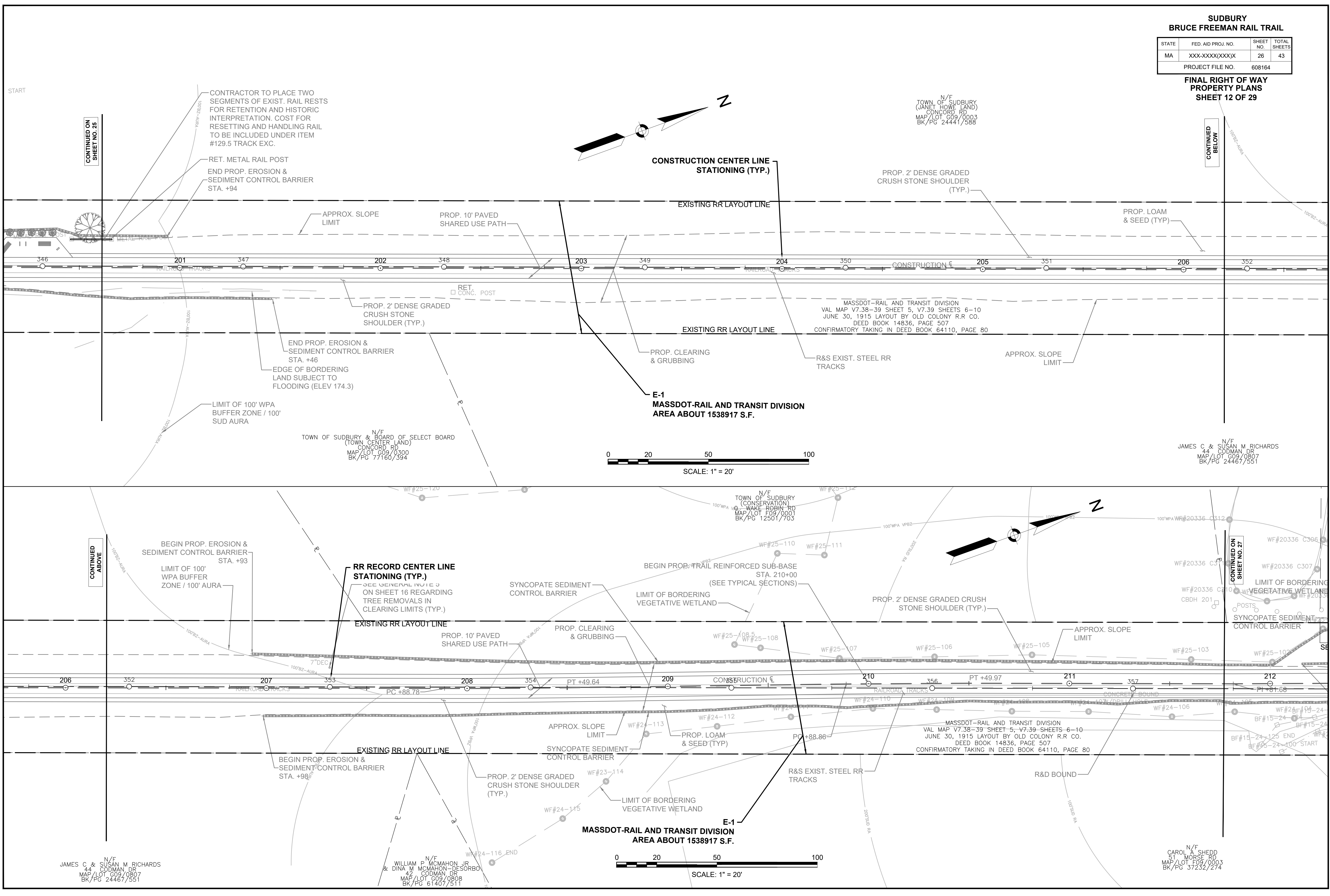
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SHEET NO. 28

**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	26	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 12 OF 29**



CONTINUED ON
SHEET NO. 25

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BELOW

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ABOVE

CONTINUED ON
SHEET NO. 27

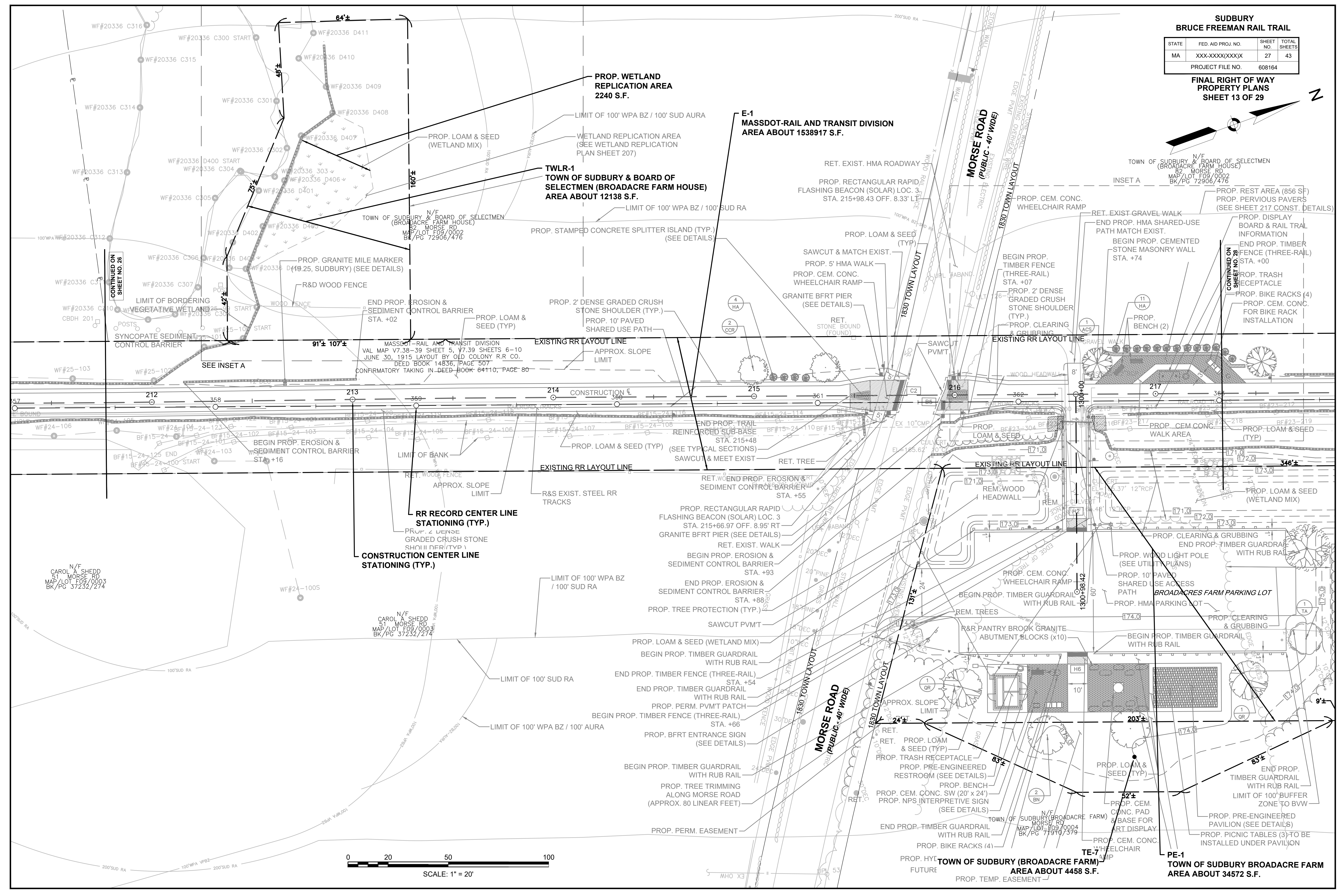
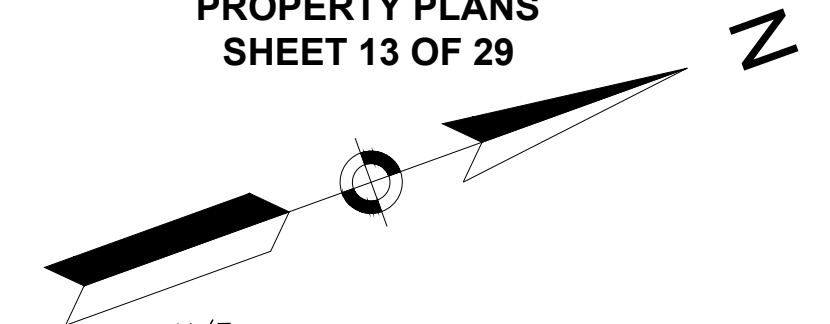
N/F
JAMES C & SUSAN M RICHARDS
44 CODMAN DR
MAP/LOT G09/0807
BK/PG 24467/551

N/F
WILLIAM P. MCMAHON JR.
& DINA M. MCMAHON-DESORBO
42 CODMAN DR
MAP/LOT G09/0808
BK/PG 61407/511

N/F
CAROL A. SHEDD
51 MORSE RD
MAP/LOT F09/0003
BK/PG 37232/274

SUDBURY BRUCE FREEMAN RAIL TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXX(XXX)X	27	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 13 OF 29**



**PROP. WETLAND
REPLICATION AREA
2240 S.F.**

**E-1
MASSDOT-RAIL AND TRANSIT DIVISION
AREA ABOUT 1538917 S.F.**

**TWLR-1
TOWN OF SUDBURY & BOARD OF
SELECTMEN (BROADACRE FARM HOUSE)
AREA ABOUT 12138 S.F.**

TOWN OF SUDBURY & BOARD OF SELECTMEN
(BROADACRE FARM HOUSE)
MAP/LOT F09/0002
BK/PG 72906/476

PROP. REST AREA (856 SF)
PROP. PERVIOUS PAVERS
(SEE SHEET 217 CONST. DETAILS)

PROP. STAMPED CONCRETE SPLITTER ISLAND (TYP.)
(SEE DETAILS)

RET. EXIST. HMA ROADWAY
PROP. RECTANGULAR RAPID
FLASHING BEACON (SOLAR) LOC. 3
STA. 215+98.43 OFF. 8.33' LT

PROP. CEM. CONC.
WHEELCHAIR RAMP

RET. EXIST. GRAVEL WALK
END PROP. HMA SHARED-USE
PATH MATCH EXIST.

BEGIN PROP. CEMENTED
STONE MASONRY WALL
STA. +74

PROP. DISPLAY
BOARD & RAIL TRAIL
INFORMATION

END PROP. TIMBER
FENCE (THREE-RAIL)
STA. +00

PROP. TRASH
RECEPTACLE

PROP. BIKE RACKS (4)

PROP. CEM. CONC.
FOR BIKE RACK
INSTALLATION

PROP. BENCH (2)

PROP. CEM. CONC.
WALK AREA

PROP. LOAM & SEED
(TYP.)

PROP. LOAM & SEED
(WETLAND MIX)

PROP. CLEARING & GRUBBING

END PROP. TIMBER GUARDRAIL
WITH RUB RAIL

PROP. WOOD LIGHT POLE
(SEE UTILITY PLANS)

PROP. 10' PAVED
SHARED USE ACCESS
PATH

PROP. HMA PARKING LOT

PROP. CLEARING & GRUBBING

BEGIN PROP. TIMBER GUARDRAIL
WITH RUB RAIL

PROP. WOOD TRIMMING
ALONG MORSE ROAD
(APPROX. 80 LINEAR FEET)

PROP. TREE TRIMMING
ALONG MORSE ROAD
(APPROX. 80 LINEAR FEET)

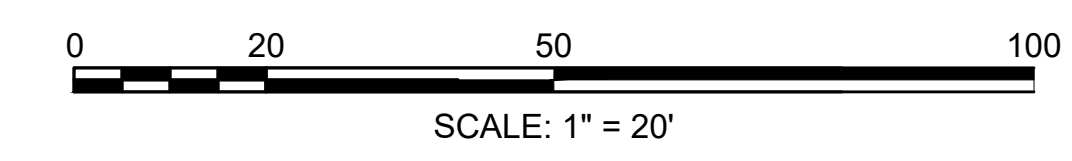
PROP. BIKE RACKS (4)

PROP. CEM. CONC. PAD
& BASE FOR
ART DISPLAY

PROP. CEM. CONC.
WHEELCHAIR
RAMP

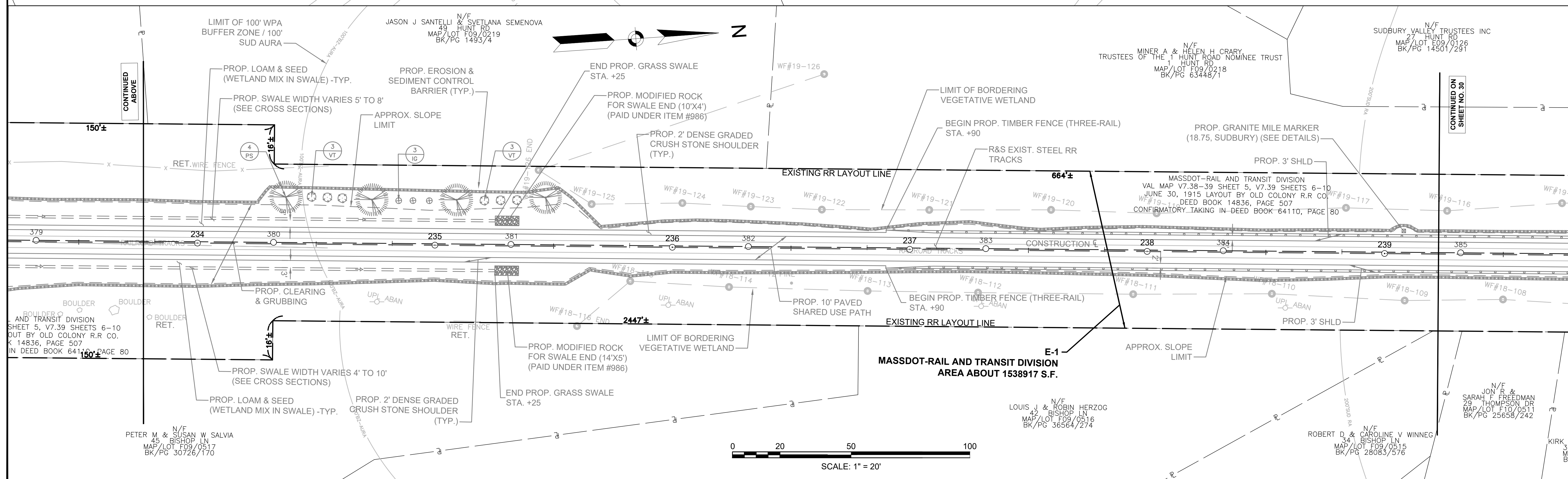
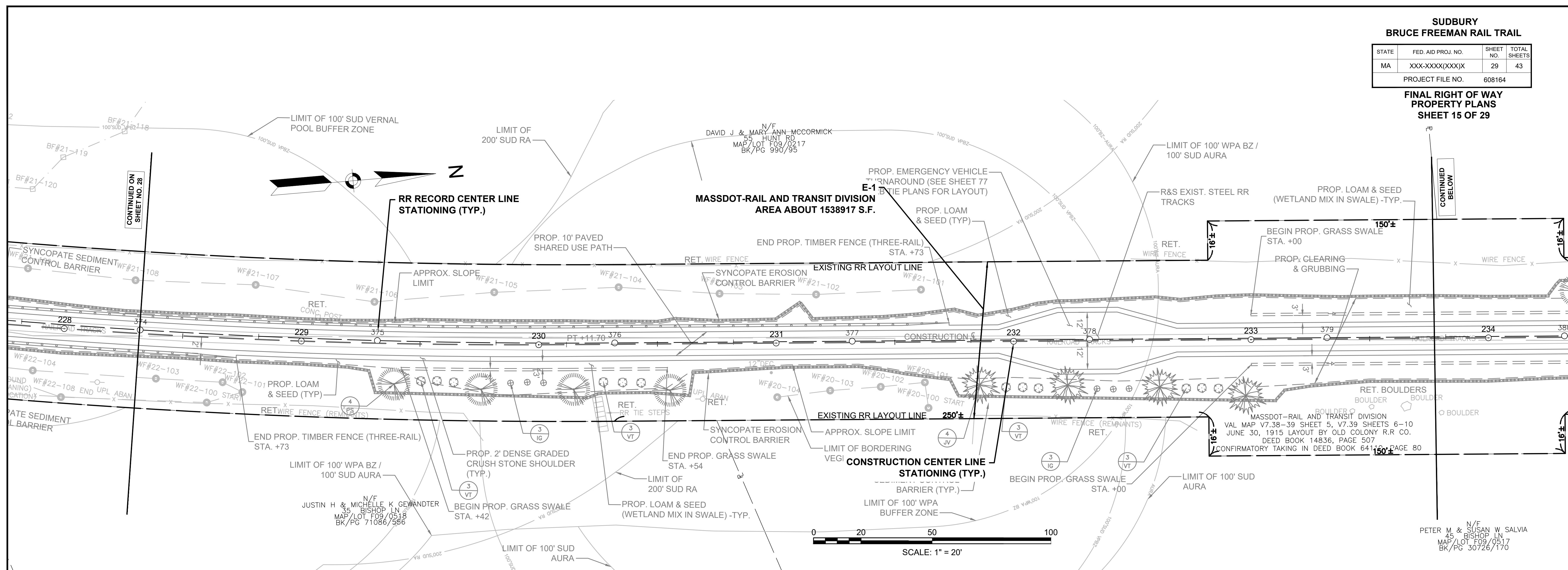
PROP. PRE-ENGINEERED
PAVILION (SEE DETAILS)

PROP. PICNIC TABLES (3) TO BE
INSTALLED UNDER PAVILION



SUDBURY BRUCE FREEMAN TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	29	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 15 OF 29**

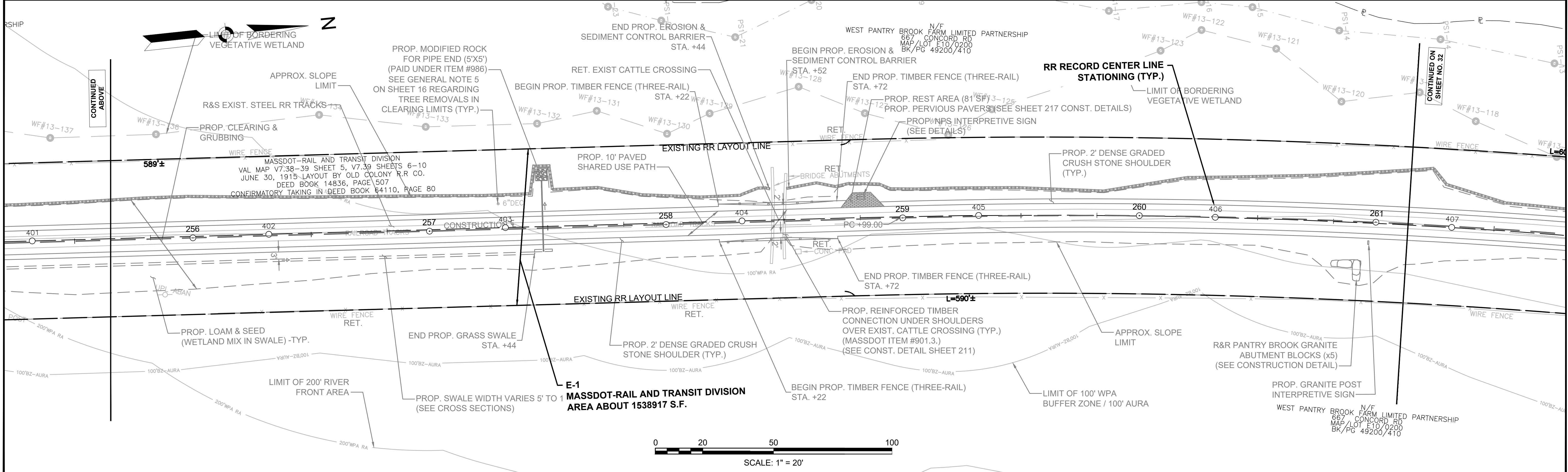
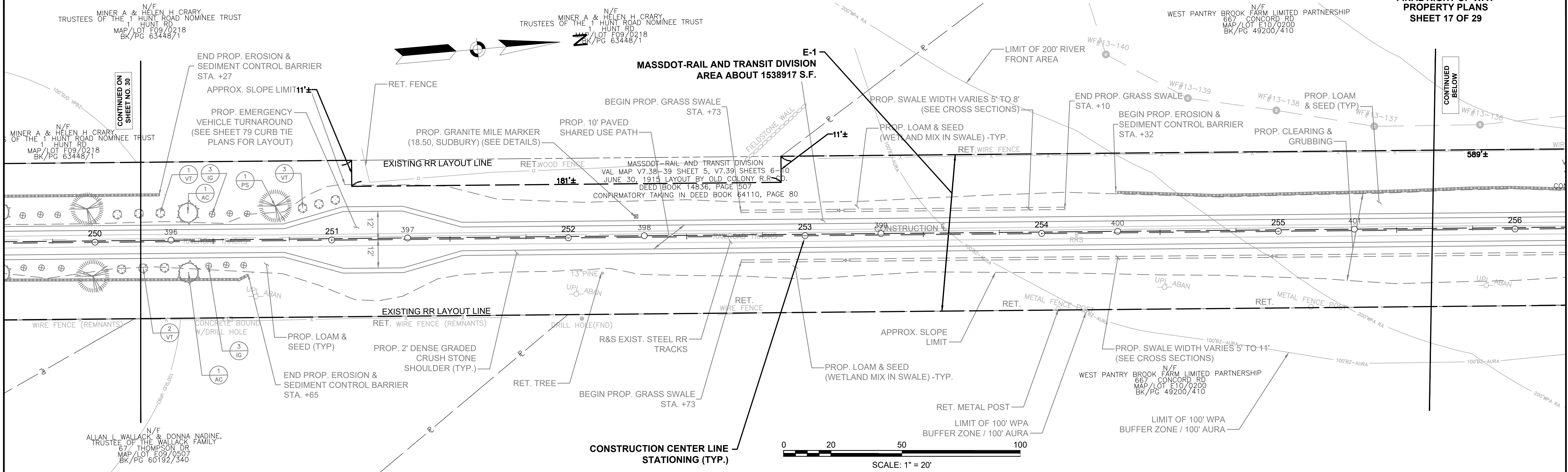


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**SUDBURY
BRUCE FREEMAN TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	31	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 17 OF 29**

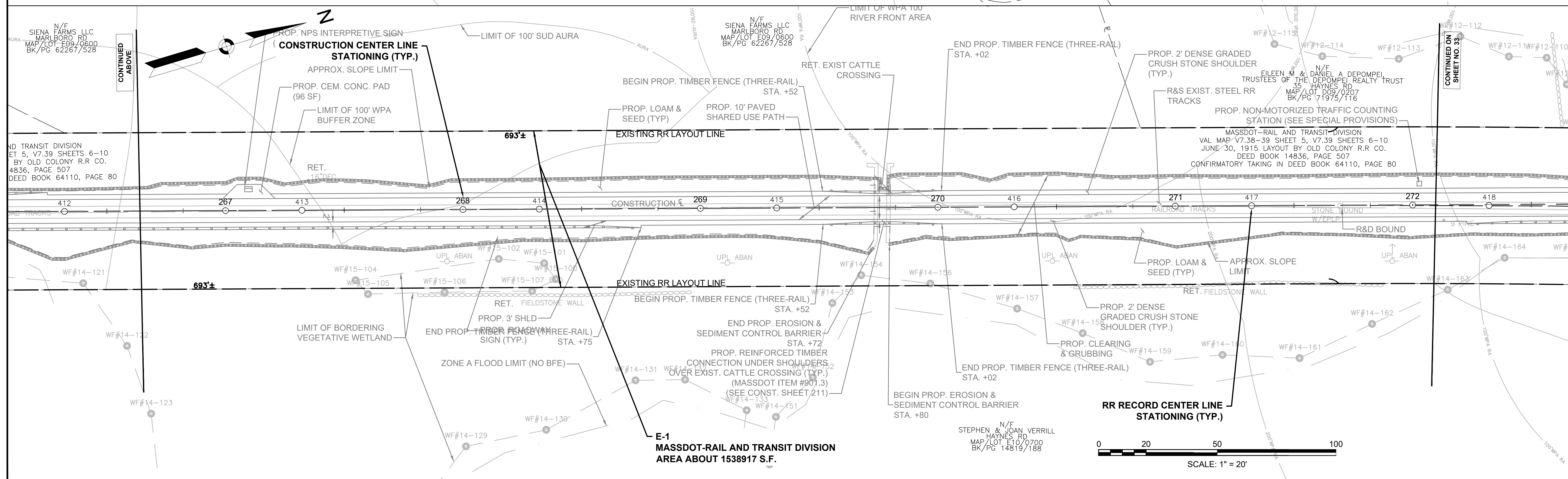
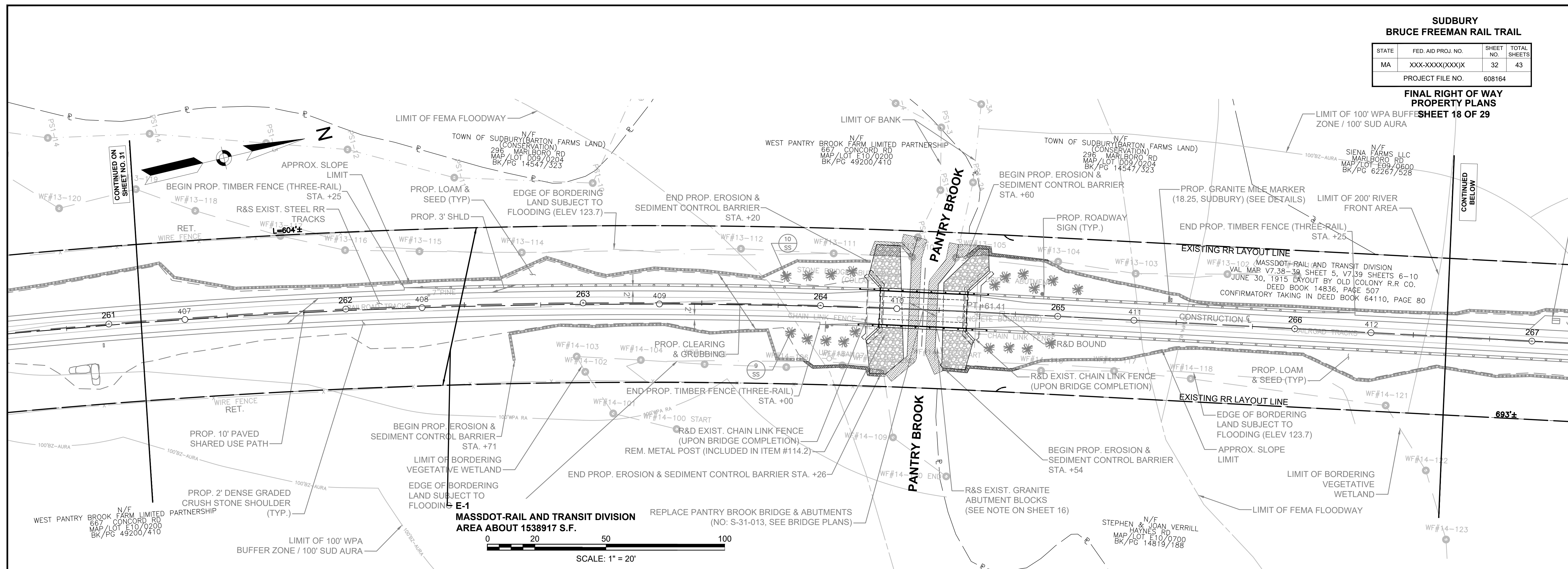


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SUDBURY BRUCE FREEMAN TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	32	43
PROJECT FILE NO.		608164	

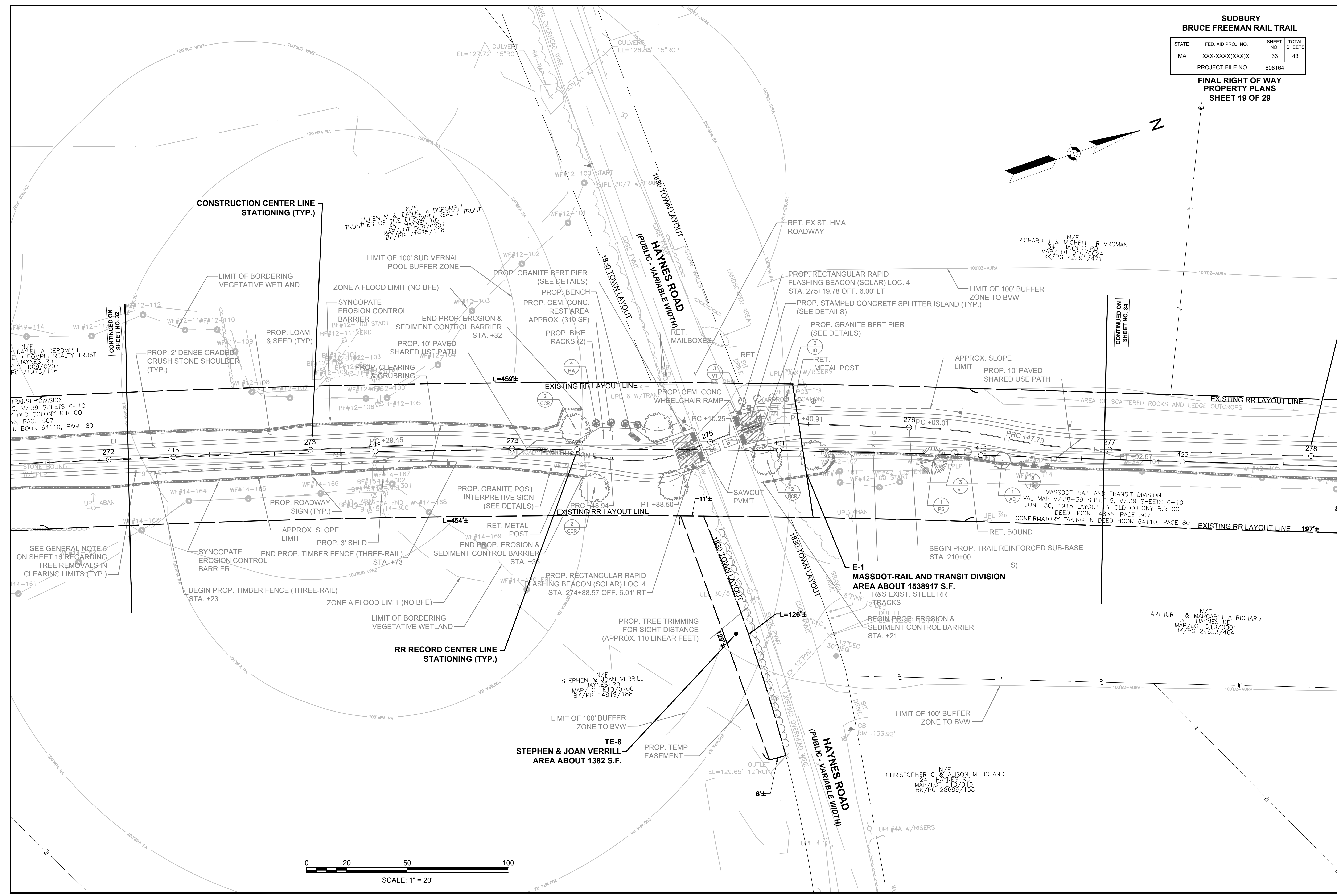
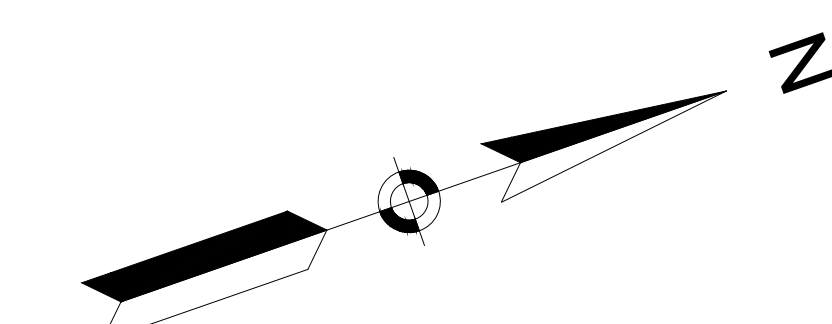
**FINAL RIGHT OF WAY
PROPERTY PLANS**

SHEET 18 OF 29



SUDBURY BRUCE FREEMAN RAIL TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	33	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 19 OF 29**



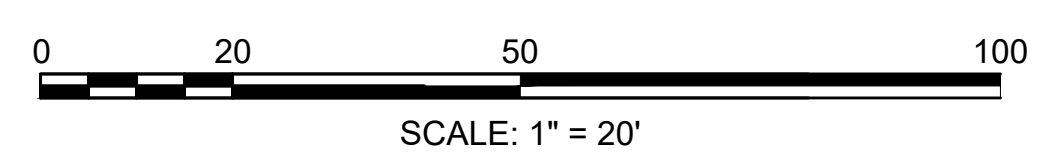
CONTINUED ON
SHEET NO. 32

CONTINUED ON
SHEET NO. 34

TRANSIT DIVISION
SHEETS 6-10
OLD COLONY R.R. CO.
PAGE 507
DEED BOOK 64110, PAGE 80

MASSDOT-RAIL AND TRANSIT DIVISION
VAL MAP V7.38-39 SHEET 5, V7.39 SHEETS 6-10
JUNE 30, 1915 LAYOUT BY OLD COLONY R.R. CO.
DEED BOOK 14836, PAGE 507
CONFIRMATORY TAKING IN DEED BOOK 64110, PAGE 80

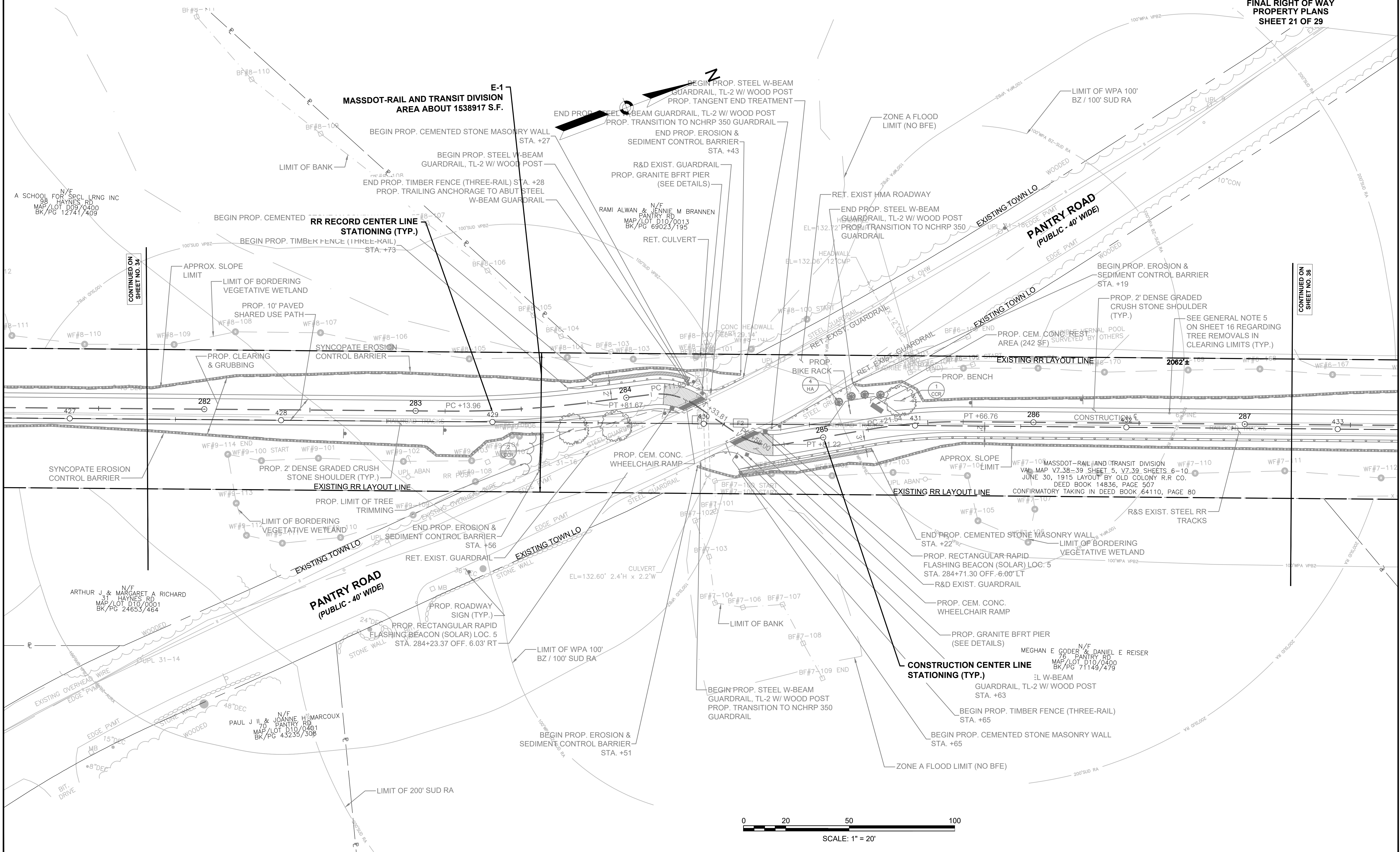
SEE GENERAL NOTE 5
ON SHEET 16 REGARDING
TREE REMOVALS IN
CLEARING LIMITS (TYP.)



**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

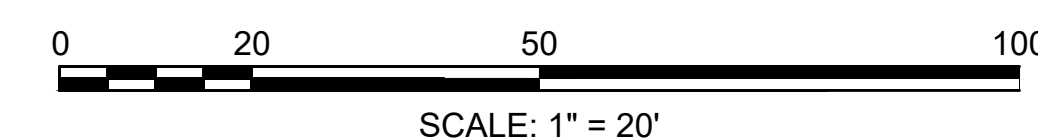
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	35	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 21 OF 29**



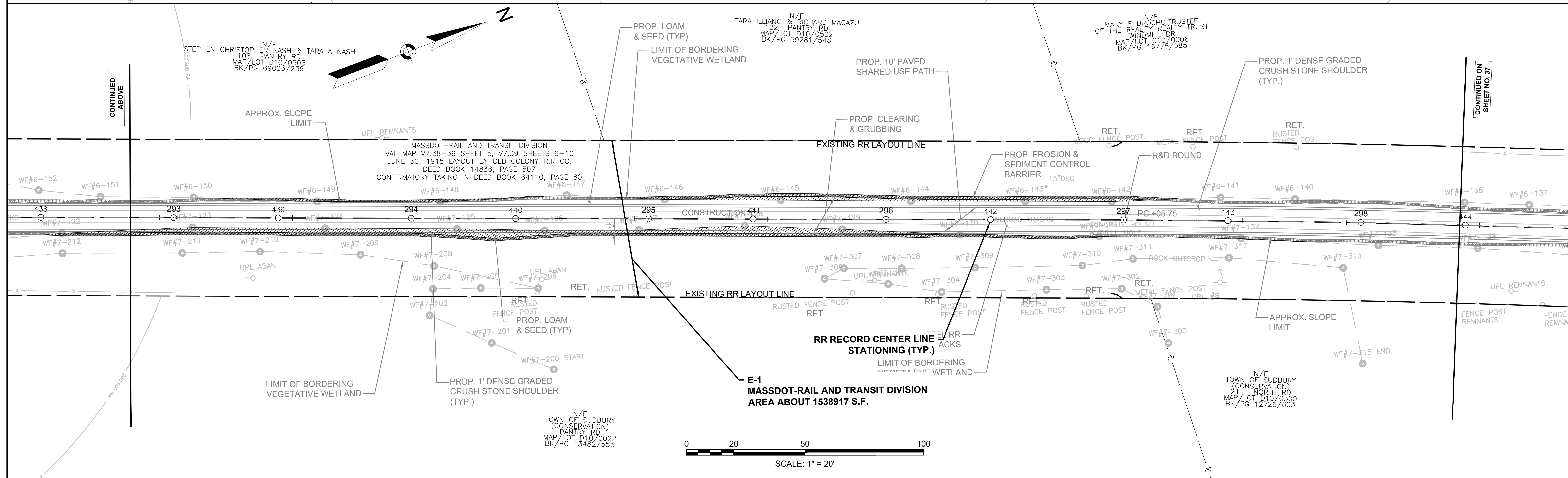
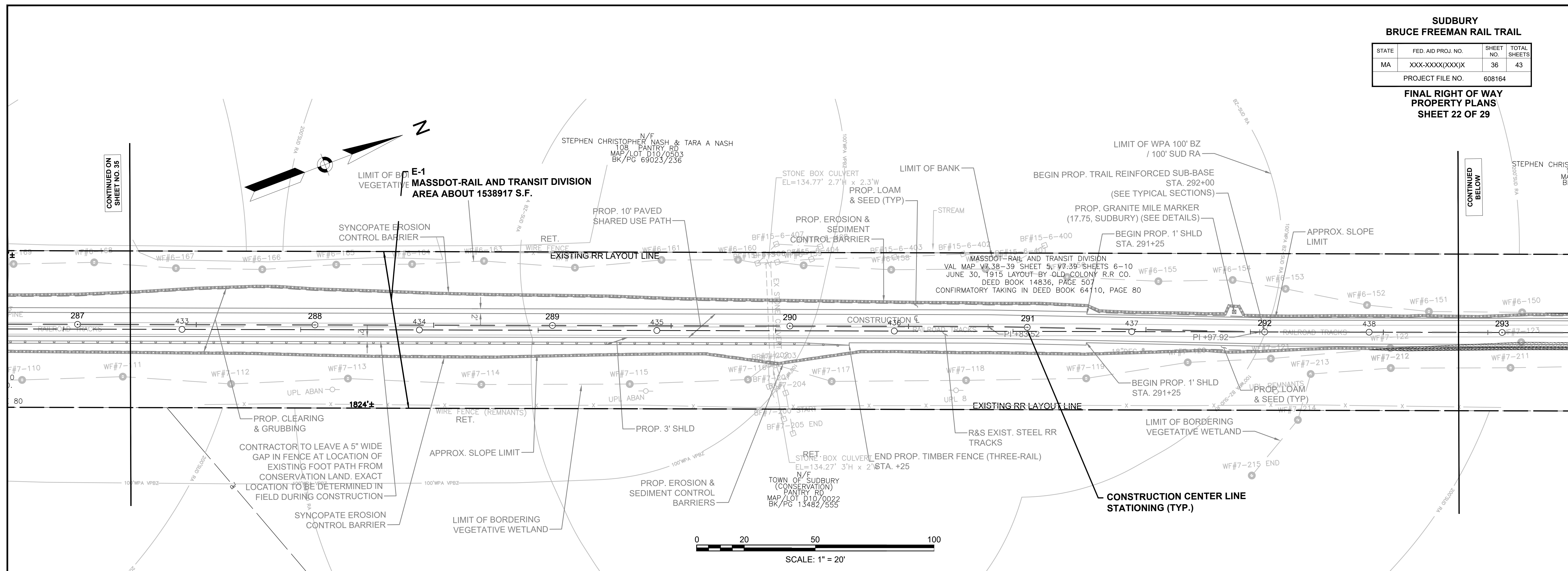
CONTINUED ON
SHEET NO. 34

CONTINUED ON
SHEET NO. 36



SUDBURY BRUCE FREEMAN RAIL TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	36	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 22 OF 29**



CONTINUED ON
SHEET NO. 36

CONTINUED
BELOW

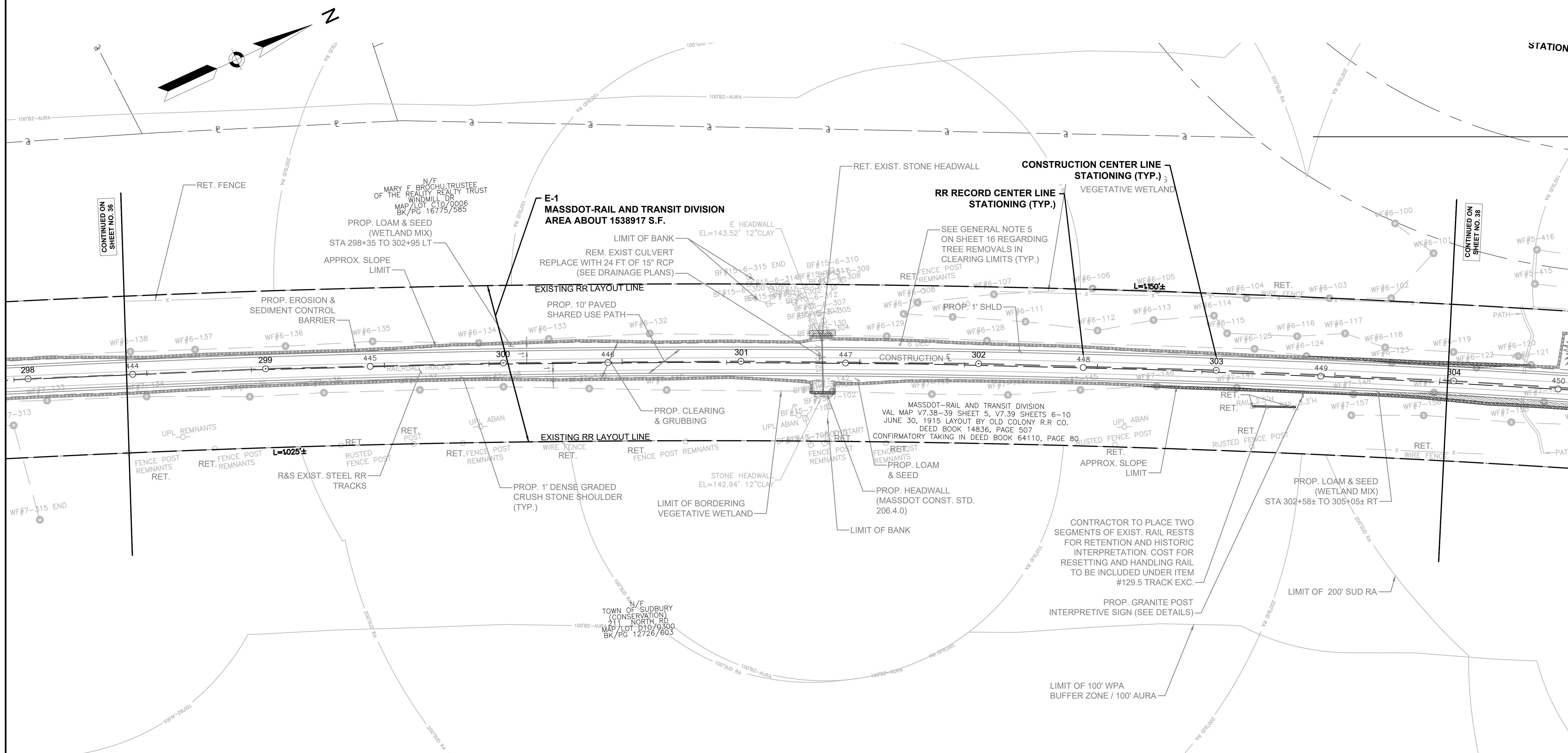
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ABOVE

CONTINUED ON
SHEET NO. 37

**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

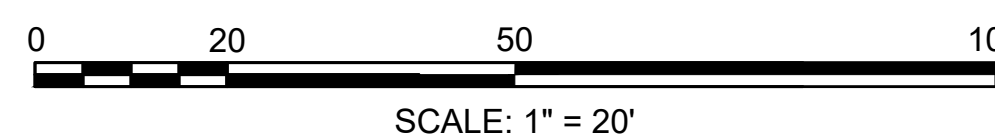
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	37	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 23 OF 29**



CONTINUED ON
SHEET NO. 36

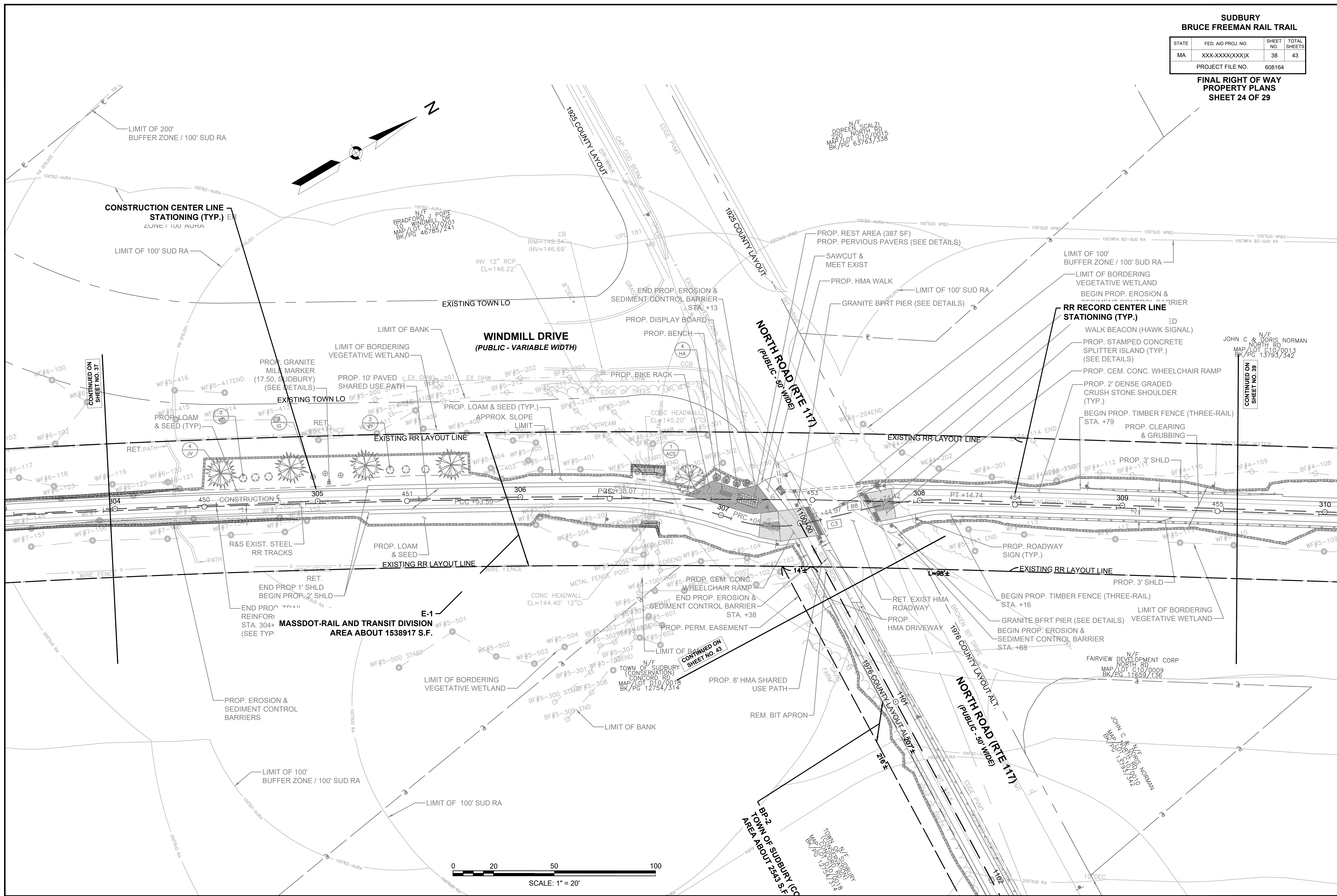
CONTINUED ON
SHEET NO. 38



**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	38	43
PROJECT FILE NO.		608164	

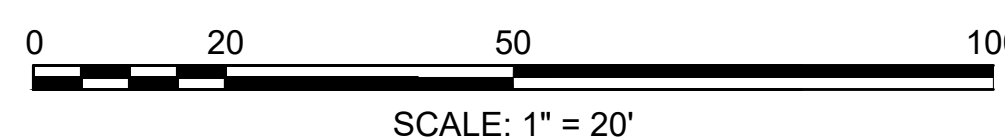
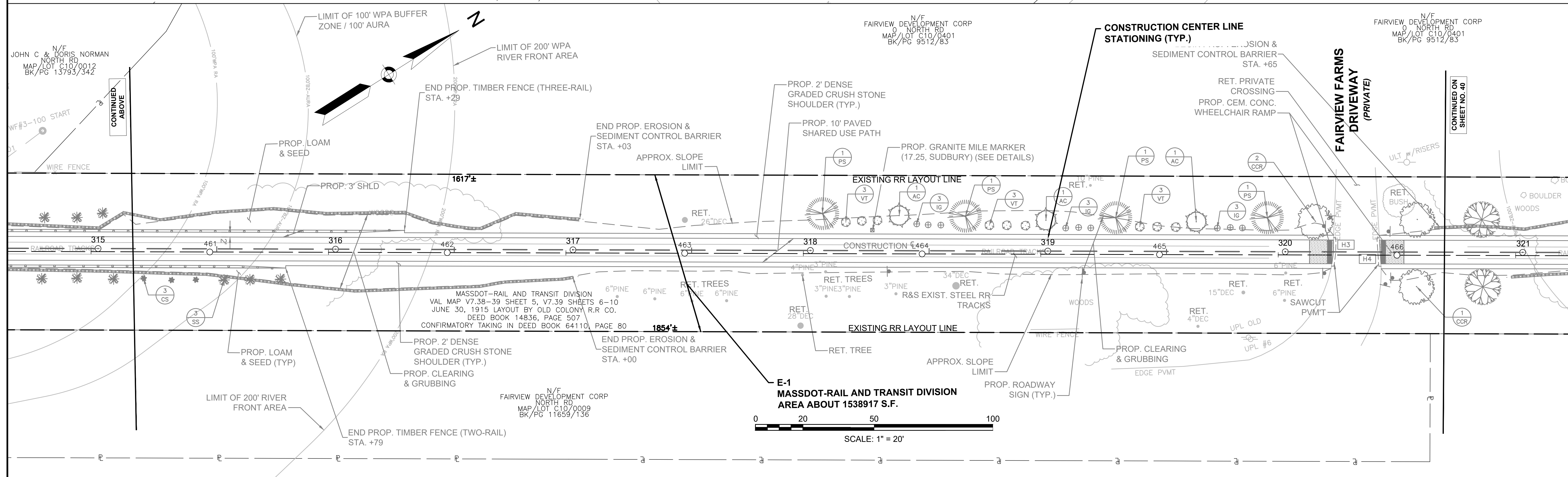
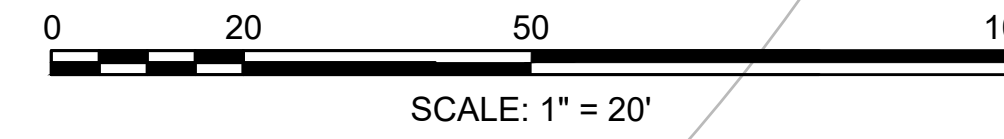
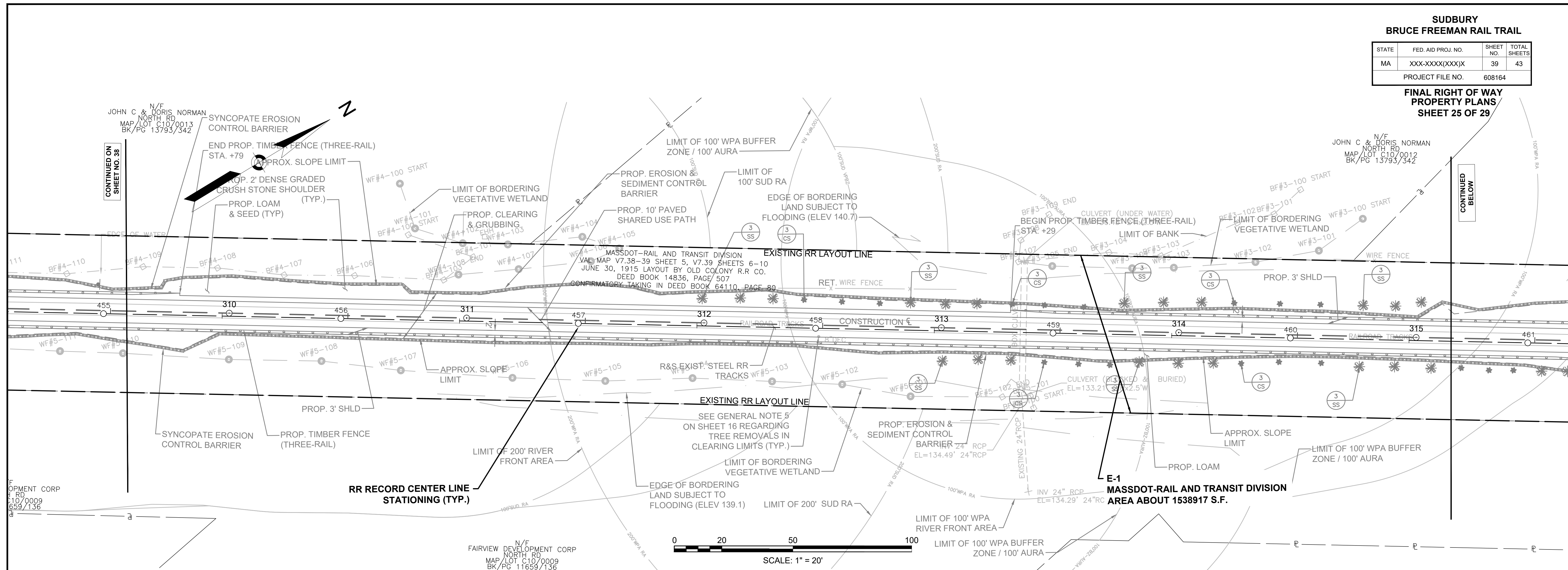
**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 24 OF 29**



**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

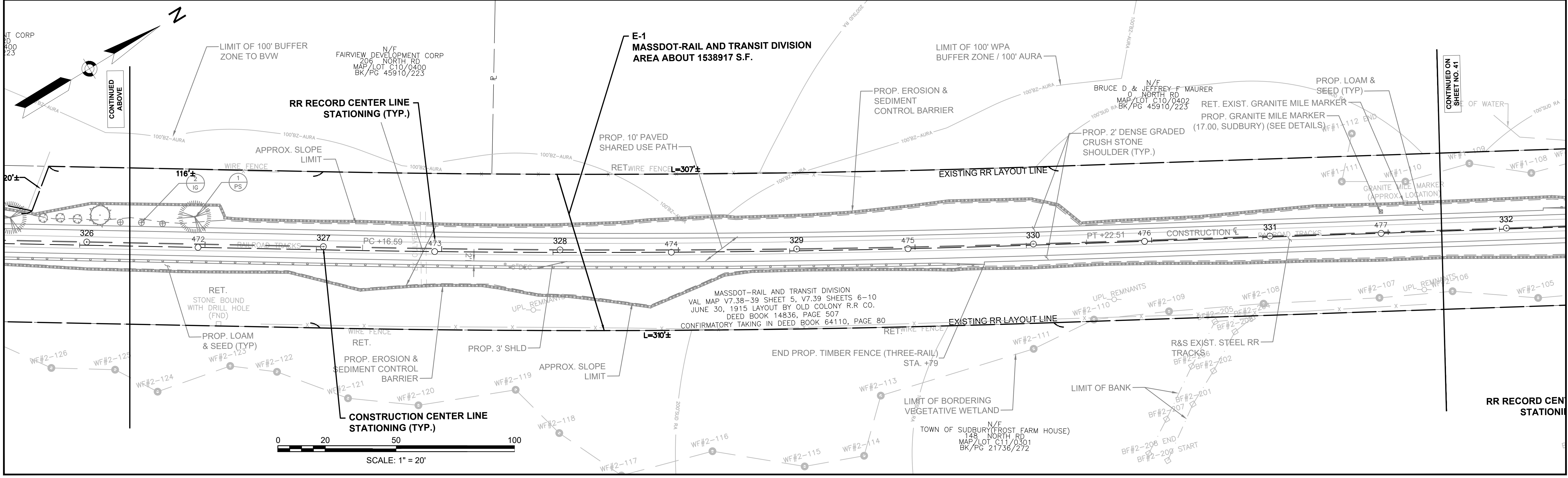
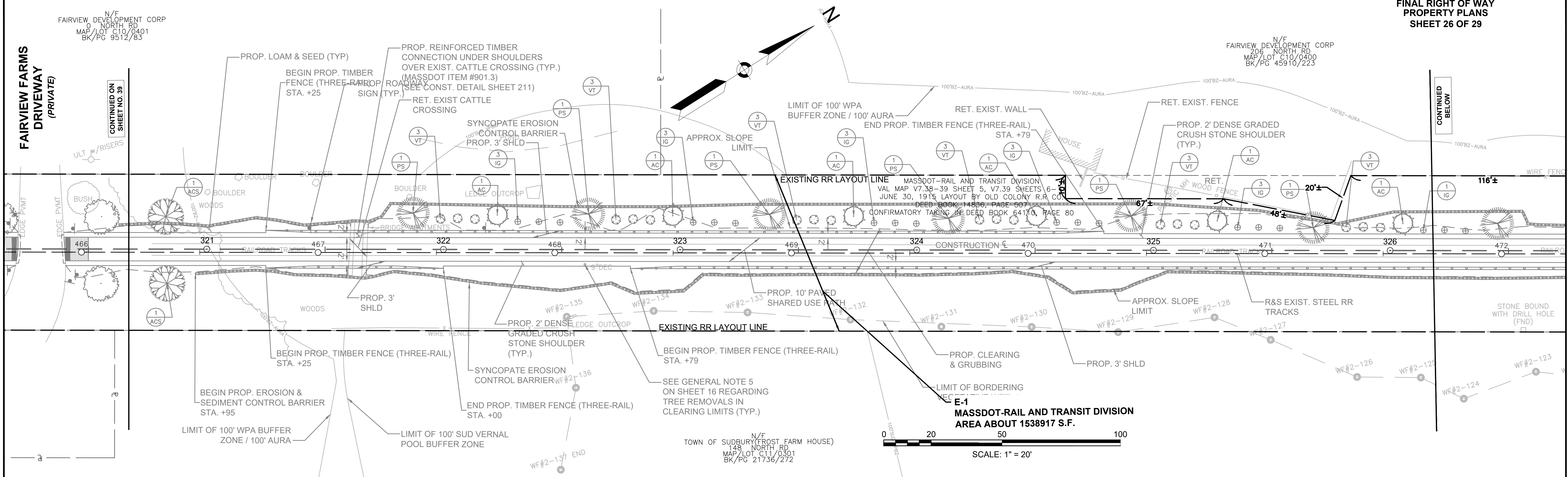
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MA	XXX-XXX(XXX)X	39	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 25 OF 29**

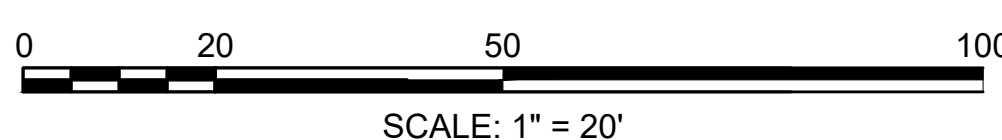
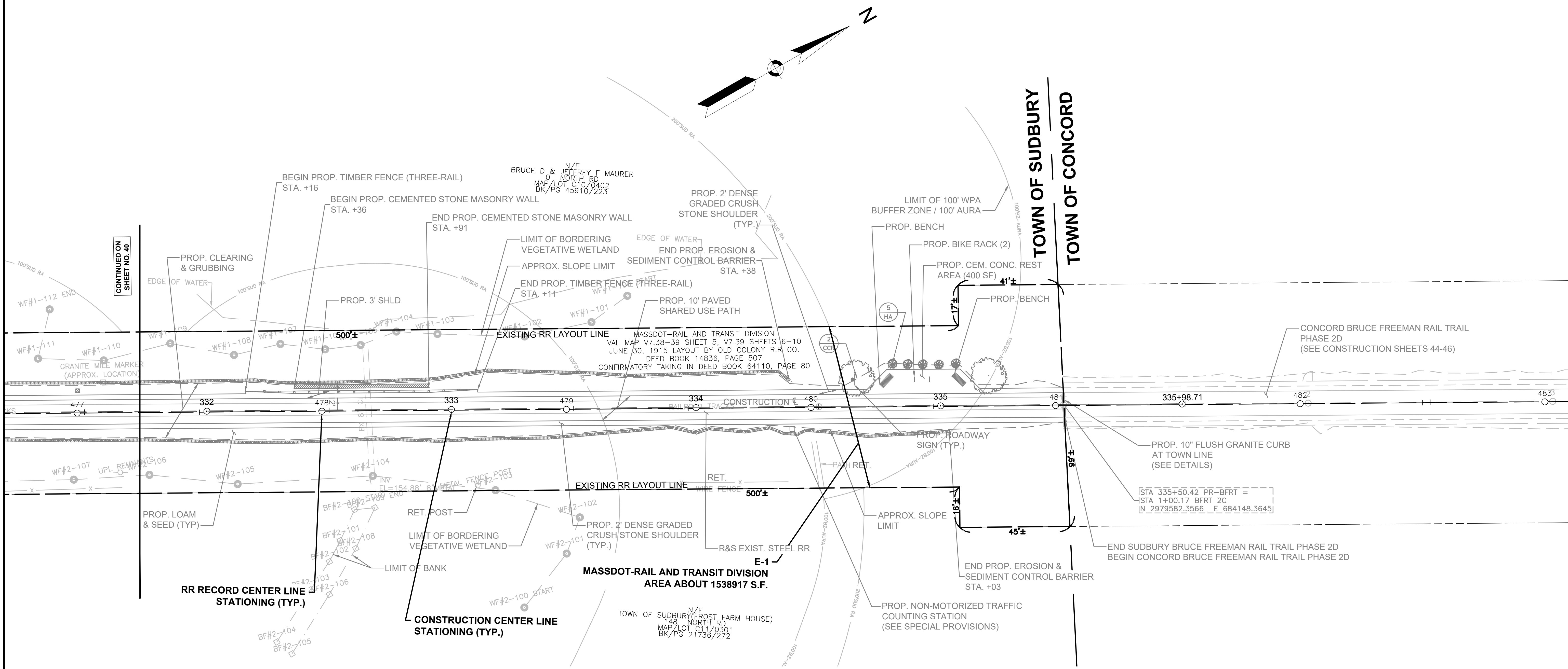


SUDBURY BRUCE FREEMAN RAIL TRAIL			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	40	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS**
SHEET 26 OF 29



7_608164_RW(PROPERTY PLANS).DWG Plotted on 18-Jan-2022 1:57 PM



CONTINUED ON
SHEET NO. 40

TOWN OF SUDBURY
TOWN OF CONCORD

CONCORD BRUCE FREEMAN RAIL TRAIL
PHASE 2D
(SEE CONSTRUCTION SHEETS 44-46)

PROP. 10" FLUSH GRANITE CURB
AT TOWN LINE
(SEE DETAILS)

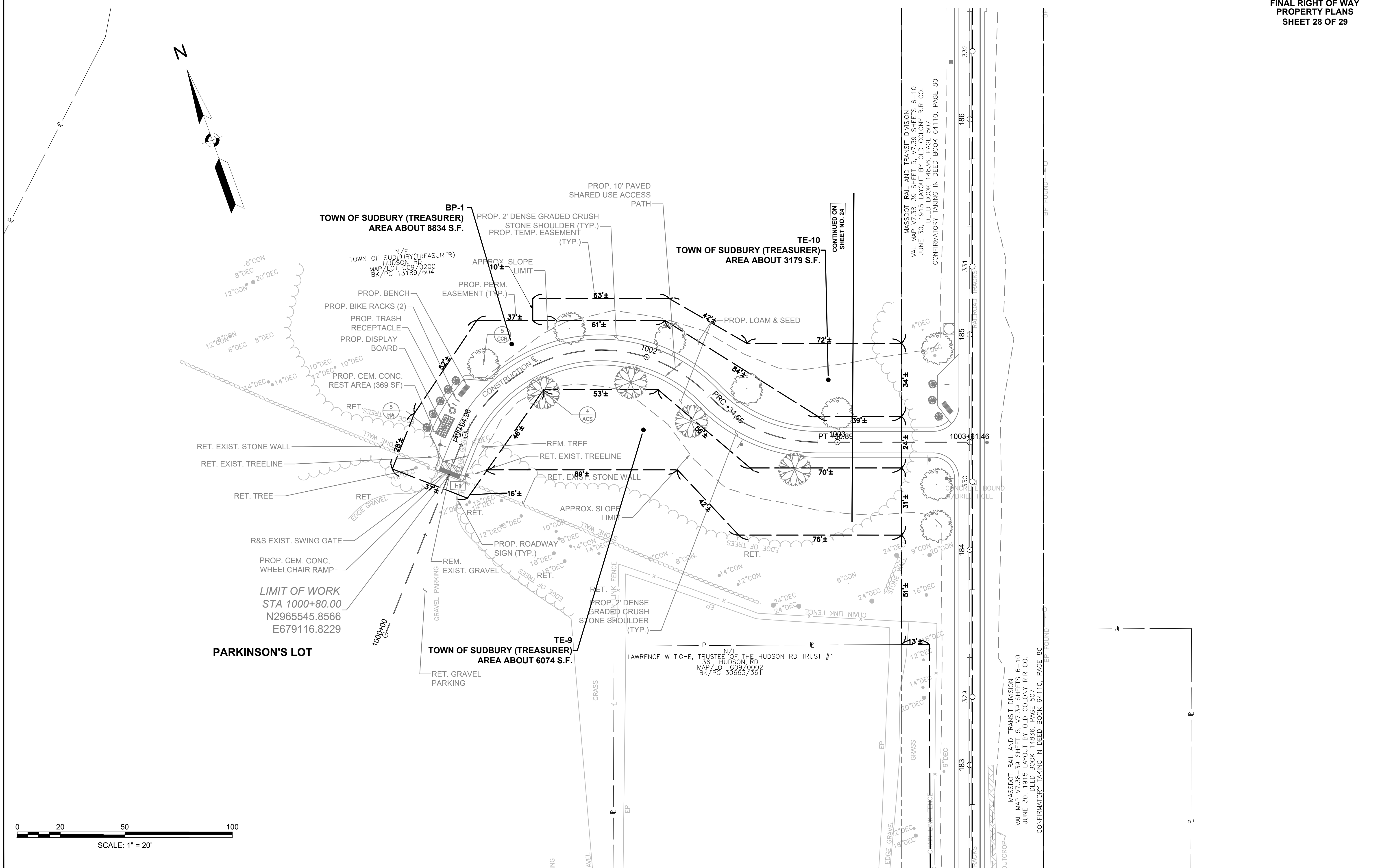
[STA 335+50.42 PR-BFRT =
STA 1+00.17 BFRT 2C
IN 2979582.3566 E 684148.3645]

END SUDBURY BRUCE FREEMAN RAIL TRAIL PHASE 2D
BEGIN CONCORD BRUCE FREEMAN RAIL TRAIL PHASE 2D

**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	42	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 28 OF 29**



**SUDBURY
BRUCE FREEMAN RAIL TRAIL**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	XXX-XXXX(XXX)X	43	43
PROJECT FILE NO.		608164	

**FINAL RIGHT OF WAY
PROPERTY PLANS
SHEET 29 OF 29**

