TOWN OF SWAMPSCOTT **MASSACHUSETTS**

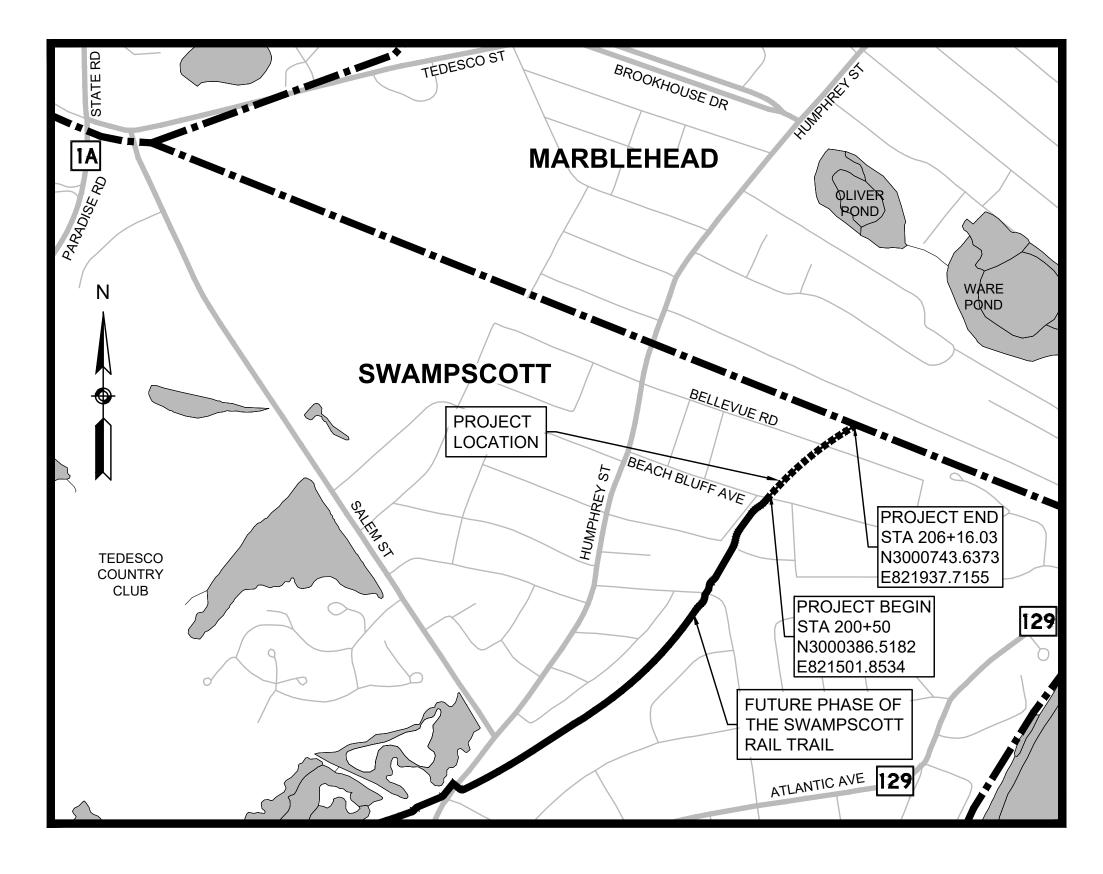


SWAMPSCOTT RAIL TRAIL

DRAFT BID PLANS

INDEX

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SCALE: 1" = 500'

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 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.

LENGTH OF PROJECT = 566.03 FEET = 0.107 MILES



EXISTING	LS		TRAFFIC SYMBOLS			ABBREVIATIO	DNS	_	SWAMPSCOTT
	PROPOSED	<u>DESCRIPTION</u>				GENERAL		_	SWAMPSCOTT RAIL TRAIL
☐ JB	<u></u> JB	JERSEY BARRIER	<u>EXISTING</u>	PROPOSED	<u>DESCRIPTION</u>	AADT	ANNUAL AVERAGE DAILY TRAFFIC		STATE SUBMISSION SHEET TOTAL NO. SHEETS
∄ ⊕ ⊕ CB	СВ	CATCH BASIN	Ø 1	Ø 1	CONTROLLER PHASE ACTUATED	ABAN	ABANDON ADJUST		MA FOR BID: 2020-04-06 2 18
	<u> </u>	CATCH BASIN CURB INLET	[0]	O		ADJ APPROX.	APPROXIMATE		STANTEC PROJECT NO. 179410549
♦ FP G GP	♦ FP G GP	FLAG POLE GAS PUMP	0		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)	A.C.	ASPHALT CONCRETE		LEGEND & ABBREVIATIONS
□ MB	□ MB	MAIL BOX				ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE		2202.13 (17.03).121.11.1101.10
		POST SQUARE	Ĺ_j		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)	BIT.	BITUMINOUS		
$\overline{\bigcirc}$	0	POST CIRCULAR	72	7	VIDEO DETECTION CAMERA	BC	BOTTOM OF CURB		
⊕ WELL	⊕ WELL	WELL	$\triangleright\Box$	▶ ■	MICROWAVE DETECTOR	BD. BL	BOUND BASELINE		
- EHH	□ EHH	ELECTRIC HANDHOLE	\oplus	•	PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE	BLDG	BUILDING	ABBREVIAT	ΓΙΟΝS (cont.)
0	0	FENCE GATE POST	\\			BM	BENCHMARK	GENERAL	<u>L</u>
O GG ⊕ BHL #	○ GG ④ BHL#	GAS GATE BORING HOLE	*	*	EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT	ВО	BY OTHERS	R	RADIUS OF CURVATURE
→ MW #	◆ MW#	MONITORING WELL	<──	—	VEHICULAR SIGNAL HEAD	BOS	BOTTOM OF SLOPE	R&D	REMOVE AND DISPOSE
■ TP #	■ TP#	TEST PIT	≪	₩-	VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED	BR.	BRIDGE	RCP	REINFORCED CONCRETE PIPE
P	P	HYDRANT	<	•	FLASHING BEACON	CB CBCI	CATCH BASIN CATCH BASIN WITH CURB INLET	RD RDWY	ROAD ROADWAY
*	*	LIGHT POLE			PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)	CC	CEMENT CONCRETE	REM	REMOVE
CO.BD.		COUNTY BOUND			· · · · · · · · · · · · · · · · · · ·	CCM	CEMENT CONCRETE MASONRY	RET	RETAIN
		GPS POINT	⊠ RRSG	⊠ RRSG	RAILROAD SIGNAL	CEM	CEMENT	RET WALL	RETAINING WALL
(C)	© ©	CABLE MANHOLE DRAINAGE MANHOLE		•	SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)	CI	CURB INLET	ROW	RIGHT OF WAY
(E)	© E	ELECTRIC MANHOLE	○ —○	€ 20'	MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)	CIP	CAST IRON PIPE	RR	RAILROAD
©	©	GAS MANHOLE			HIGH MAST POLE OR TOWER	CLF	CHAIN LINK FENCE	R&R	REMOVE AND STACK
M	(M)	MISC MANHOLE				CL CMP	CENTERLINE CORRUGATED METAL PIPE	R&S RT	REMOVE AND STACK RIGHT
S	\$	SEWER MANHOLE		0	SIGN AND POST	CSP	CORRUGATED METAL PIPE CORRUGATED STEEL PIPE	SB	STONE BOUND
T	T	TELEPHONE MANHOLE	00	00	SIGN AND POST (2 POSTS)	CSP CO.	COUNTY	SHLD	SHOULDER
W	W	WATER MANHOLE		** ^{20'}	MAST ARM WITH LUMINAIRE	CONC	CONCRETE	SMH	SEWER MANHOLE
■ MHB	■ MHB	MASSACHUSETTS HIGHWAY BOUND				CONT	CONTINUOUS	ST	STREET
□ MON		MONUMENT		=	OPTICAL PRE-EMPTION DETECTOR	CONST	CONSTRUCTION	STA	STATION
□ SB ■ TD		STONE BOUND		\bowtie	CONTROL CABINET, GROUND MOUNTED	CR GR	CROWN GRADE	SSD	STOPPING SIGHT DISTANCE
■ TB		TOWN OR CITY BOUND TRAVERSE OR TRIANGULATION STATION			CONTROL CABINET, POLE MOUNTED	DHV	DESIGN HOURLY VOLUME	SHLO	STATE HIGHWAY LAYOUT LINE
TPL or GUY	-> TPL or GUY				FLASHING BEACON CONTROL AND METER PEDESTAL	DI	DROP INLET	SW T	SIDEWALK TANGENT DISTANCE OF CURVE/TRUC
• HTP	11 2 31 331	TRANSMISSION POLE				DIA	DIAMETER DUCTUE IDON DIDE	TAN	TANGENT DISTANCE OF GORVE, TROOP
-b- UFB	- 占 - UFB	UTILITY POLE W/ FIREBOX		\boxtimes	LOAD CENTER ASSEMBLY	DIP DW	DUCTILE IRON PIPE STEADY DON'T WALK - PORTLAND ORANGE	TEMP	TEMPORARY
- UPDL	-∳- UPDL	UTILITY POLE WITH DOUBLE LIGHT			PULL BOX 12"x12" (OR AS NOTED)	DWY	DRIVEWAY	TC	TOP OF CURB
5- ULT	-&- ULT	UTILITY POLE W / 1 LIGHT			ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)	ELEV (or EL.)		TOS	TOP OF SLOPE
o UPL	-∽ UPL	UTILITY POLE			·	EMB	EMBANKMENT	TYP	TYPICAL
0		BUSH			= TRAFFIC SIGNAL CONDUIT	EOP	EDGE OF PAVEMENT	UP	UTILITY POLE
IZE & TYPE		TREE				EXIST (or EX)	EXISTING	VAR	VARIES
0		STUMP (MARCH				EXC	EXCAVATION	VERT VC	VERTICAL VERTICAL CURVE
• WG	o \\(\(\) (\)	SWAMP / MARSH				F&C	FRAME AND COVER	WCR	WHEEL CHAIR RAMP
• PM	WGPM	WATER GATE PARKING METER				F&G	FRAME AND GRATE	WG	WATER GATE
		- OVERHEAD CABLE/WIRE				FDN. FLDSTN	FOUNDATION FIELDSTONE	WIP	WROUGHT IRON PIPE
						ILDSIN			
		= CURBING				GAR	GARAGE	WM	WATER METER/WATER MAIN
		– CONTOURS (ON-THE-GROUND SURVEY DATA)				GAR GD	GARAGE GROUND	WM X-SECT	CROSS SECTION
		CONTOURS (ON-THE-GROUND SURVEY DATA)CONTOURS (PHOTOGRAMMETRIC DATA)							
		CONTOURS (ON-THE-GROUND SURVEY DATA)CONTOURS (PHOTOGRAMMETRIC DATA)UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)	PAVEMENT MARKIN	IGS SYMBOLS		GD	GROUND		
		 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) 	PAVEMENT MARKIN	IGS SYMBOLS		GD GG GI GIP	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE		
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<u>99</u>		 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) 			DESCRIPTION PAVEMENT ARROW - WHITE	GD GG GI GIP GRAN GRAV	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL	X-SECT	CROSS SECTION
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		 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) 		PROPOSED	PAVEMENT ARROW - WHITE LEGEND "ONLY" - WHITE	GD GG GI GIP GRAN GRAV GRD HDW	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL	X-SECT TRAFFIC S CAB	CROSS SECTION
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- 99		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 CHAIN LINK OR METAL FENCE WOOD FENCE COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE EDGE OF PAVEMENT LIMIT OF MICROMILLING AND OVERLAY	EXISTING	PROPOSED T SYL BWL BYL DWL	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	GD GG GI GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX	TRAFFIC S CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL	IGNAL ABBREVIATIONS CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN RIGHT ARROW
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- 99		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 CHAIN LINK OR METAL FENCE WOOD FENCE COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE EDGE OF PAVEMENT LIMIT OF MICROMILLING AND OVERLAY BANK OF RIVER OR STREAM BORDER OF WETLAND 100 FT WETLAND BUFFER 200 FT RIVERFRONT BUFFER STATE HIGHWAY LAYOUT	EXISTING	PROPOSED The second se	PAVEMENT ARROW - WHITE LEGEND "ONLY" - WHITE STOP LINE CROSSWALK SOLID WHITE LINE SOLID YELLOW LINE BROKEN WHITE LINE BROKEN YELLOW LINE DOTTED WHITE LINE EXTENSION DOTTED YELLOW LINE EXTENSION	GD GG GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH MHB MIN NIC NO. PC	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER POINT OF CURVATURE	TRAFFIC S CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR GV OL PED	IGNAL ABBREVIATIONS CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN SLASH LEFT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN VERTICAL ARROW OVERLAP PEDESTRIAN
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- 99		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) UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) BALANCED STONE WALL GUARD RAIL - STEEL POSTS GUARD RAIL - WOOD POSTS CHAIN LINK OR METAL FENCE WOOD FENCE COMPOST FILTER TUBES TREE LINE SAWCUT LINE TOP OR BOTTOM OF SLOPE EDGE OF PAVEMENT LIMIT OF MICROMILLING 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	EXISTING	PROPOSED The second se	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 WHITE LINE DOTTED WHITE LINE DOTTED WHITE LINE EXTENSION DOTTED YELLOW LINE EXTENSION DOUBLE WHITE LINE	GD GG GIP GRAN GRAV GRD HDW HMA HOR HYD INV JCT L LB LP LT MAX MB MH MHB MIN NIC NO. PC PCC P.G.L.	GROUND GAS GATE GUTTER INLET GALVANIZED IRON PIPE GRANITE GRAVEL GUARD HEADWALL HOT MIX ASPHALT HORIZONTAL HYDRANT INVERT JUNCTION LENGTH OF CURVE LEACH BASIN LIGHT POLE LEFT MAXIMUM MAILBOX MANHOLE MASSACHUSETTS HIGHWAY BOUND MINIMUM NOT IN CONTRACT NUMBER POINT OF CURVATURE POINT OF COMPOUND CURVATURE PROFILE GRADE LINE POINT OF INTERSECTION	TRAFFIC S CAB CCVE DW FDW FR FRL FRR FY FYL FYR G GL GR GSL GSR GV OL PED PTZ R RL RR TR SIG	IGNAL ABBREVIATIONS CABINET CLOSED CIRCUIT VIDEO EQUIPMENT STEADY UPRAISED HAND FLASHING UPRAISED HAND FLASHING CIRCULAR RED FLASHING RED LEFT ARROW FLASHING RED RIGHT ARROW FLASHING CIRCULAR YELLOW FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN SLASH LEFT ARROW STEADY GREEN SLASH RIGHT ARROW STEADY GREEN VERTICAL ARROW OVERLAP PEDESTRIAN PAN, TILT, ZOOM STEADY CIRCULAR RED STEADY RED LEFT ARROW
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GENERAL NOTES:

- 1. EXISTING GROUND SURFACES SHOWN ON PLANS, PROFILES AND CROSS SECTIONS ARE BASED UPON DATA OBTAINED BY FIELD SURVEYS.
- 2. THE LOCATIONS OF EXISTING SUBSURFACE STRUCTURES, SUCH AS SEWERS, WATER MAINS, DRAINS AND OTHER UTILITIES ARE APPROXIMATE ONLY AND THE ENGINEER DOES NOT GUARANTEE THEIR NUMBER OR LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BEFORE EXCAVATING.
- 3. ALL GAS GATES, ELECTRIC MANHOLES, AND TELEPHONE MANHOLES WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED BY THE OWNING AGENCY. ALL GAS, ELECTRIC, TELEPHONE AND CATV WORK SHALL BE DONE BY THE OWNING AGENCY. THE CONTRACTOR SHALL NOTIFY THE OWNING AGENCIES TO ADJUST AND/OR RELOCATE THESE STRUCTURES TO AVOID IMPACTING THE CONTRACTOR'S SCHEDULE OF OPERATIONS.
- 4. ANY CLEANING OF CATCH BASINS OR DRAIN PIPES NECESSARY FOR THE PROPOSED WORK SHALL BE COMPLETED BY THE RESPECTIVE MUNICIPALITY INVOLVED.
- 5. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE UTILITY COMPANIES DOING WORK IN THE SAME AREA THE CONTRACTOR SHALL ALLOW THE UTILITY COMPANIES AND THEIR REPRESENTATIVES TO ADJUST AND/OR INSTALL THEIR SYSTEMS WITHIN TOWN / STATE OWNED STREETS AND EASEMENTS.
- 6. CONSTRUCT DRIVEWAYS AND WALKS AS SHOWN ON THE PLANS AND/OR AS REQUIRED BY THE ENGINEER.
- 7. SAW CUT EXISTING BITUMINOUS CONCRETE ROADWAYS, CEMENT CONCRETE SIDEWALKS AND BITUMINOUS CONCRETE DRIVEWAYS AS SHOWN ON THE PLANS AND AT THE PROPOSED MATCH LINE.
- 8. 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 THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- 9. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 10. ALL ACCESSIBLE ROUTES, WALKWAYS, CURB CUTS, RAMPS, SIDEWALKS, DRIVEWAY OPENINGS, CLEARANCES AND SLOPE TOLERANCES SHALL CONFORM WITH THE ARCHITECTURAL ACCESS BOARD (AAB), 521 CMR AND MASSHIGHWAY CONSTRUCTION AND TRAFFIC STANDARD DRAWINGS.
- 11. ITEMS LABELED "REM" SHALL BE REMOVED AND DISCARDED BY CONTRACTOR.
- 12. THE CONTRACTOR SHALL PROTECT EXISTING SURVEY MONUMENTS AND SHALL RESET ANY MONUMENTATION DISTURBED BY HIS OPERATIONS.
- 13. THE CONTRACTOR SHALL INSTALL OTHER NECESSARY TEMPORARY REGULATORY AND WARNING SIGNS DURING CONSTRUCTION AS REQUIRED BY THE ENGINEER FOR OTHER INCIDENTAL CONSTRUCTION ACTIVITIES. ALL SIGNAGE AND TRAFFIC CONTROL DEVICES USED MUST CONFORM TO THE 2009 "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD)
- 14. THE CONTRACTOR SHALL PERFORM HIS WORK IN A MANNER ACCEPTABLE TO THE ENGINEER SO THAT INTERFERENCE WITH AND INCONVENIENCE TO BUSINESS CONCERNS AND ABUTTERS, ON ACCOUNT OF THE CONSTRUCTION WORK, IS KEPT TO A MINIMUM.
- 15. THE CONTRACTOR SHALL NOT BE ALLOWED TO PARK EQUIPMENT OR STOCKPILE EQUIPMENT OR MATERIAL ON THE TRAVELED WAYS OVERNIGHT OR WHEN NOT IN USE.
- 16. THE CONTRACTOR SHALL MAINTAIN SAFE AND RESPONSIBLE ACCESS TO AND FROM ABUTTING PROPERTY, PRIVATE WAYS, DRIVEWAYS AND ALL ALLEYS AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
- 17. ALL DETECTABLE WARNING PANELS SHALL BE MOUNTED IN CEMENT CONCRETE AND INSTALLED IN ACCORDANCE WITH MASSDOT CONSTRUCTION STANDARD DETAIL E107.6.5.

SURVEY NOTES:

- 1. COORDINATES, IN U.S. SURVEY FEET, ARE IN THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (MCS), MAINLAND ZONE, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, (NAD 83/2011, EPOCH 2010.00), BASED ON THE KeyNetGPS VIRTUAL REFERENCE SYSTEM (VRS) USING TRIMBLE R10 GNSS GPS RECEIVERS.
- 2. PROPERTY LINES COMPILED FROM RECORD PLAN INFORMATION. ABUTTER LINES OBTAINED BY ASSESSORS GIS DATA AND ARE APPROXIMATE.
- 3. THIS PLAN HAS BEEN PREPARED BY PHOTOGRAMMETRIC METHODS USING AERIAL IMAGERY ACQUIRED ON DECEMBER 4, 2017 SUPPLEMENTED WITH LIMITED FIELD SURVEY.
- 4. THE AUGUST 2018 REVISION INCLUDES SELECTED TREES LOCATED ALONG THE CORRIDOR BETWEEN HUMPHREY STREET AND SEAVIEW AVENUE.

SURVEY REFERENCES:

- 1. RIGHT OF WAY AND TRACK MAP BOSTON AND MAINE R.R. SCALE 1"=100' DATED JUNE 30, 1914 SHEETS V.7.10 1-3
- 2. PLANS PROVIDED BY THE TOWN OF SWAMPSCOTT ASSESSORS, PLATES C7, D7, E7, F7, G7, H6, H7, I5 & I6
- 3. LAND IN SWAMPSCOTT, MASS., BOSTON AND MAINE RAILROAD TO LYNN ELECTRIC COMPANY, SCALE 1"=200' DATED DECEMBER, 1962 PLAN BOOK 103, PAGE 85
- 4. PLAN OF A PORTION OF HUMPHREY STREET FROM SALEM STREET TO OCEAN AVENUE IN THE TOWN OF SWAMPSCOTT AS RELOCATED, SCALE 1"=40' DATED SEPTEMBER 1953 LAYOUT NO. 2826
- 5. LAND IN SWAMPSCOTT, MASS., BOSTON AND MAINE RAILROAD TO RAYLEN REALTY COMPANY, SCALE 1"=50" DATED DECEMBER 1959 PLAN 583 OF 1963

UTILITY NOTES:

- 1. RECORD UTILITY INFORMATION FROM THE VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES, ARE APPROXIMATE ONLY AND ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD.
- 2. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, (SEE CHAPTER 370, ACTS OF 1963, MASSACHUSETTS) PRIOR TO DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORING OR REPAVING.
- 3. THE LOCATION OF EXISTING PIPES OR OTHER UNDERGROUND STRUCTURES OR PROPERTY LINES ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES OR STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL CALL "DIG SAFE" (1-811-344-7233) 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO ANY EXCAVATION TO OBTAIN ACCURATE UTILITY LOCATIONS.
- 4. INVERTS SHOWN ON PLAN ARE NOT GUARANTEED TO BE ACCURATE. DUE TO THE LIMITATIONS OF FIELD OBSERVATION AND SURVEY TECHNIQUES THE INVERTS ARE SHOWN AS APPROXIMATE ONLY AND SHALL NOT BE WARRANTED TO BE CORRECT. ADDITIONAL FIELD INVESTIGATION IS NECESSARY WHERE ACCURATE MEASUREMENTS ARE REQUIRED FOR DESIGN OF CRITICAL AREAS.
- 5. THE EXISTING CONDITIONS PLAN IS TO BE USED FOR THE SPECIFIED PROJECT ONLY AND IS NOT WARRANTED TO BE COMPLETE FOR ANY OTHER FUTURE PROJECTS.
- 6. NATIONAL GRID EMERGENCY TELEPHONE NUMBERS:

GAS: EMERGENCY: 1-800-233-5325 NEW SERVICE: 1-877-696-4743 CUSTOMER SUPPORT: 1-800-732-3400

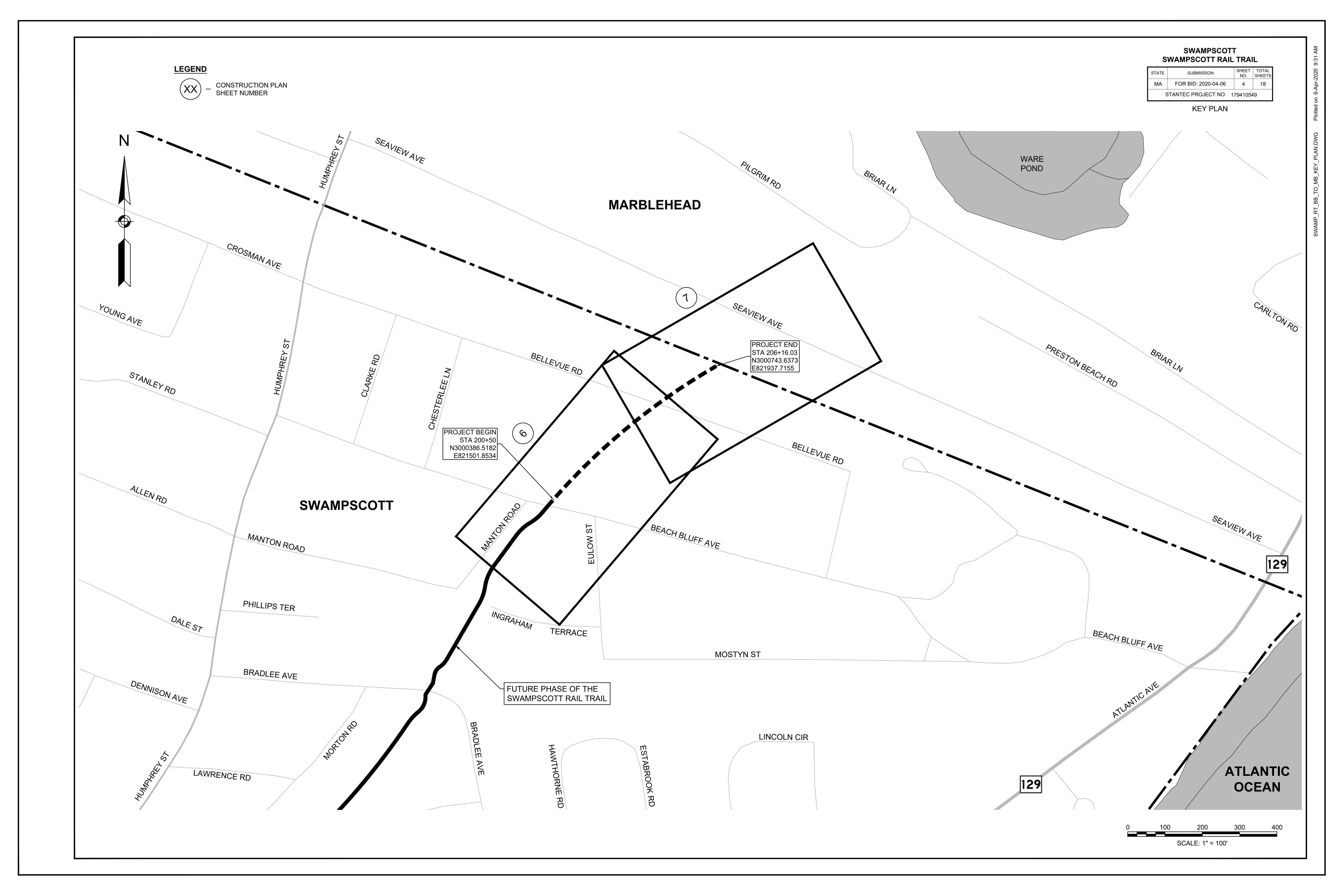
ELECTRIC: OUTAGE/EMERGENCY: 1-800-465-1212 NEW SERVICE: 1-800-375-4730 CUSTOMER SERVICE: 1-800-322-3223

SWAMPSCOTT SWAMPSCOTT RAIL TRAIL

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	FOR BID: 2020-04-06	3	18
5	7941054	19	

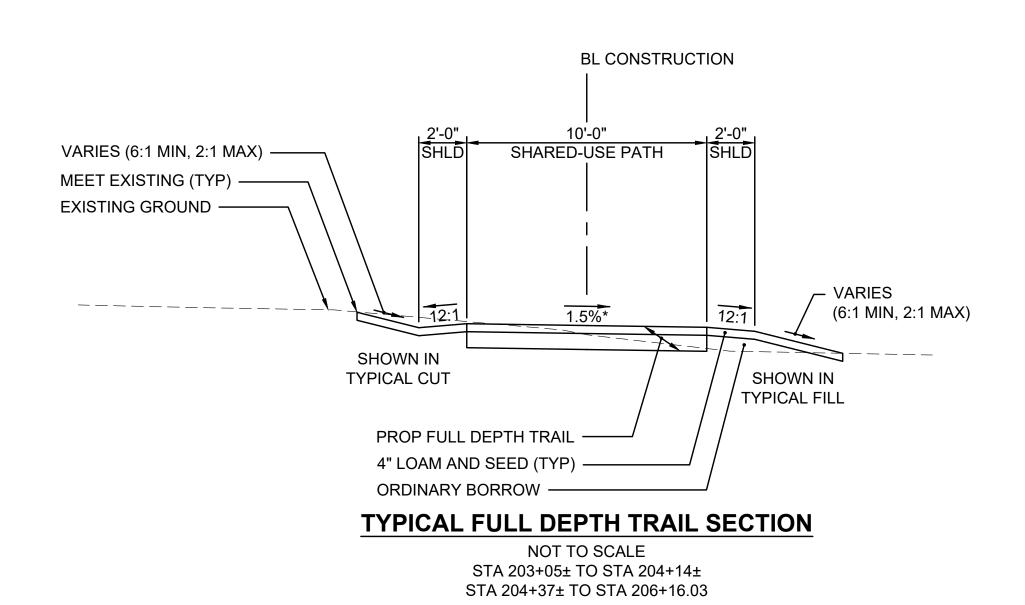
GENERAL NOTES

:WAMP_RT_BB_TO_MB_TITLE_SHEET.DW



STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS						
MA	FOR BID: 2020-04-06	5	18						
STANTEC PROJECT NO. 179410549									

TYPICAL SECTIONS



MATERIAL NOTES

PROPOSED FULL DEPTH TRAIL SECTIONS

SURFACE: 4" STABILIZED STONEDUST

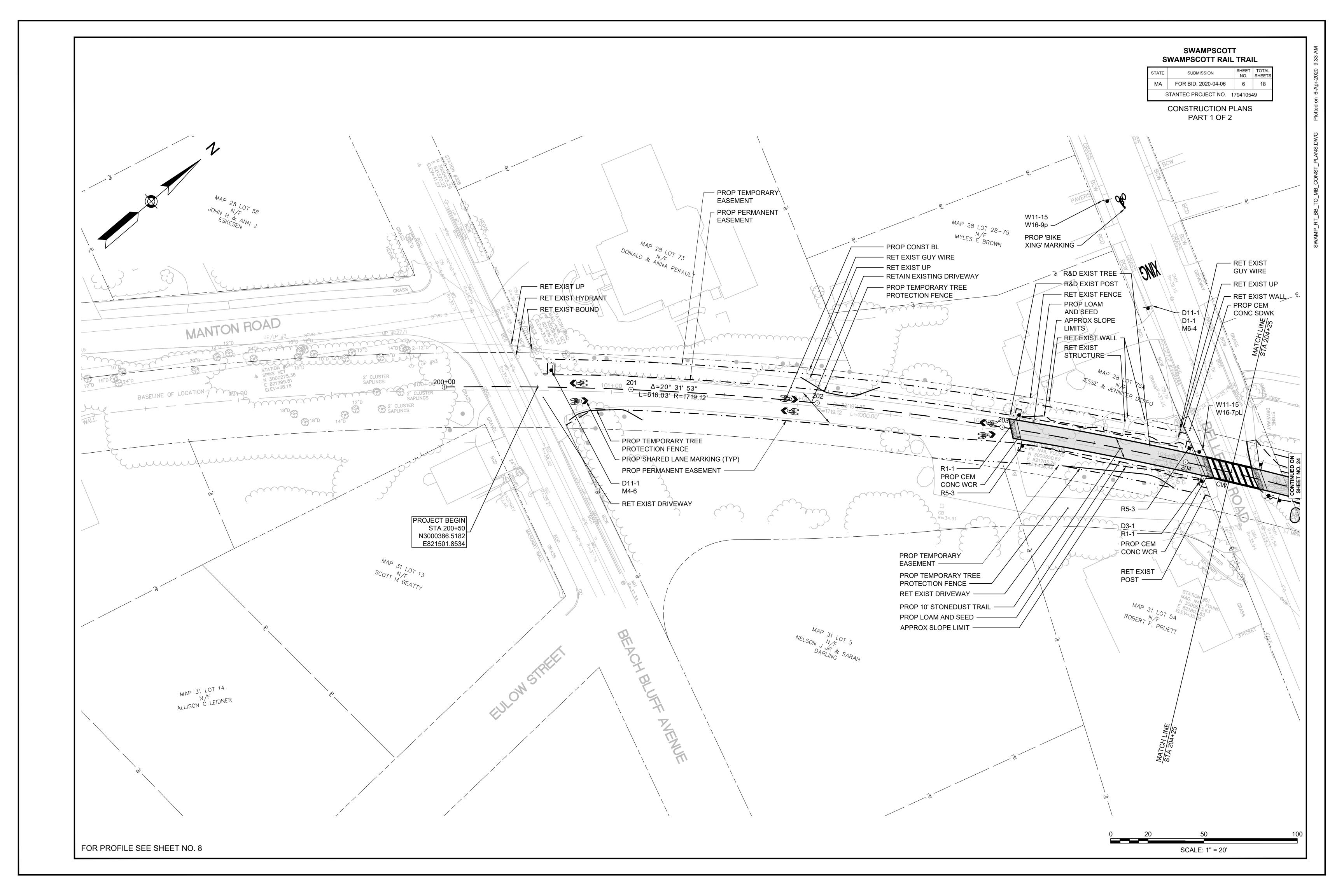
BASE: 8" (MIN) GRAVEL BORROW, TYPE b

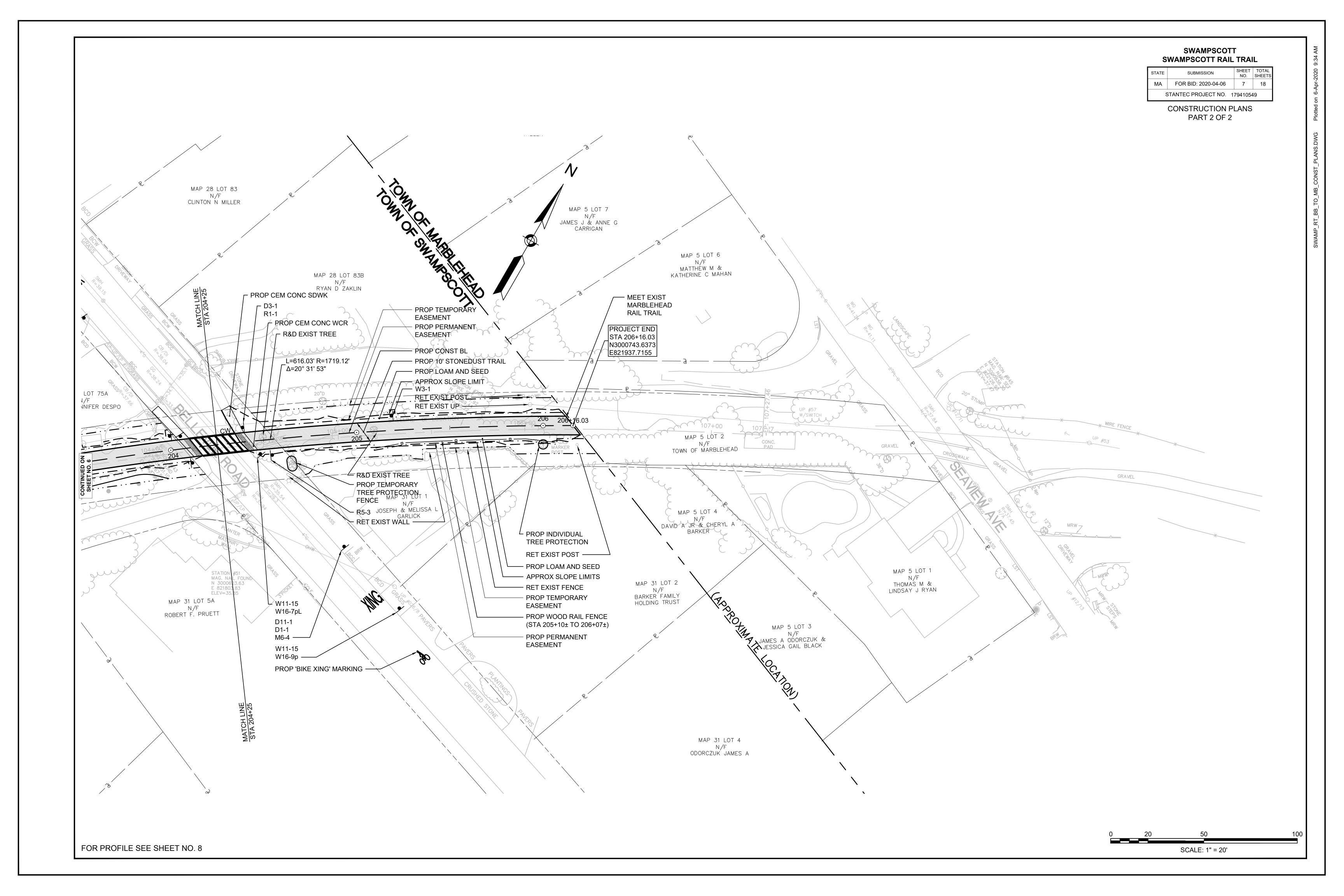
PROPOSED CEMENT CONCRETE SIDEWALK AND WHEELCHAIR RAMP SECTIONS

SURFACE: 6" CEMENT CONCRETE

(4000psi, 3/4", 610 lbs. AIR ENTRAINED)

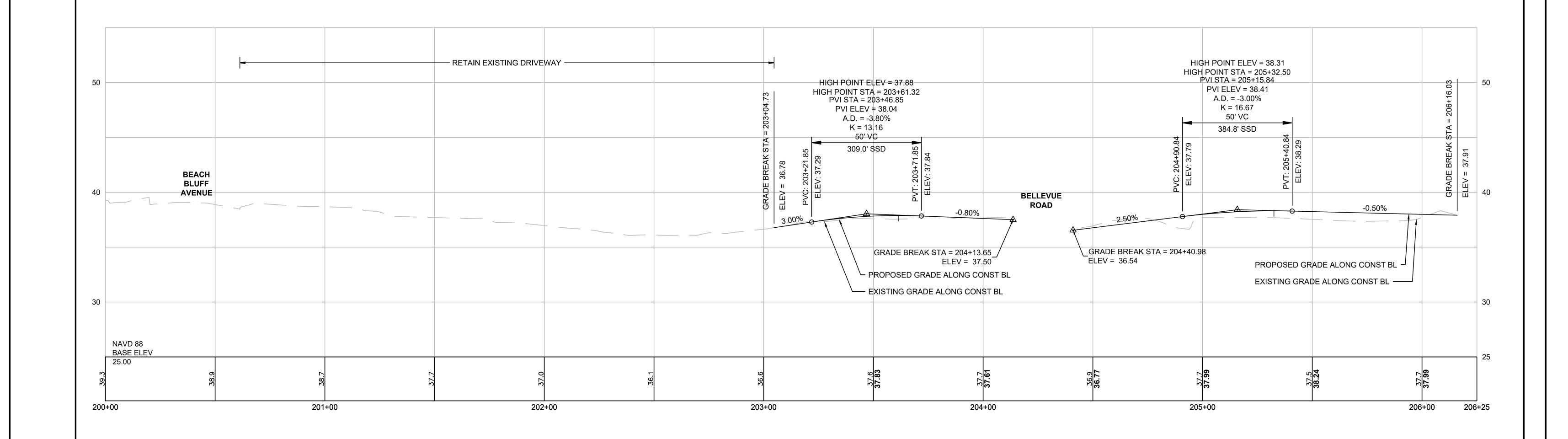
BASE: 8" (MIN) GRAVEL BORROW, TYPE b





STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS
MA	FOR BID: 2020-04-06	8	18
5	STANTEC PROJECT NO.	17941054	19

PROFILES



ALL STOP AND YIELD SIGNS, PROPOSED IN THIS CONTRACT, ARE SUBJECT TO APPROVAL BY THE TOWN OF SWAMPSCOTT BEFORE INSTALLATION.

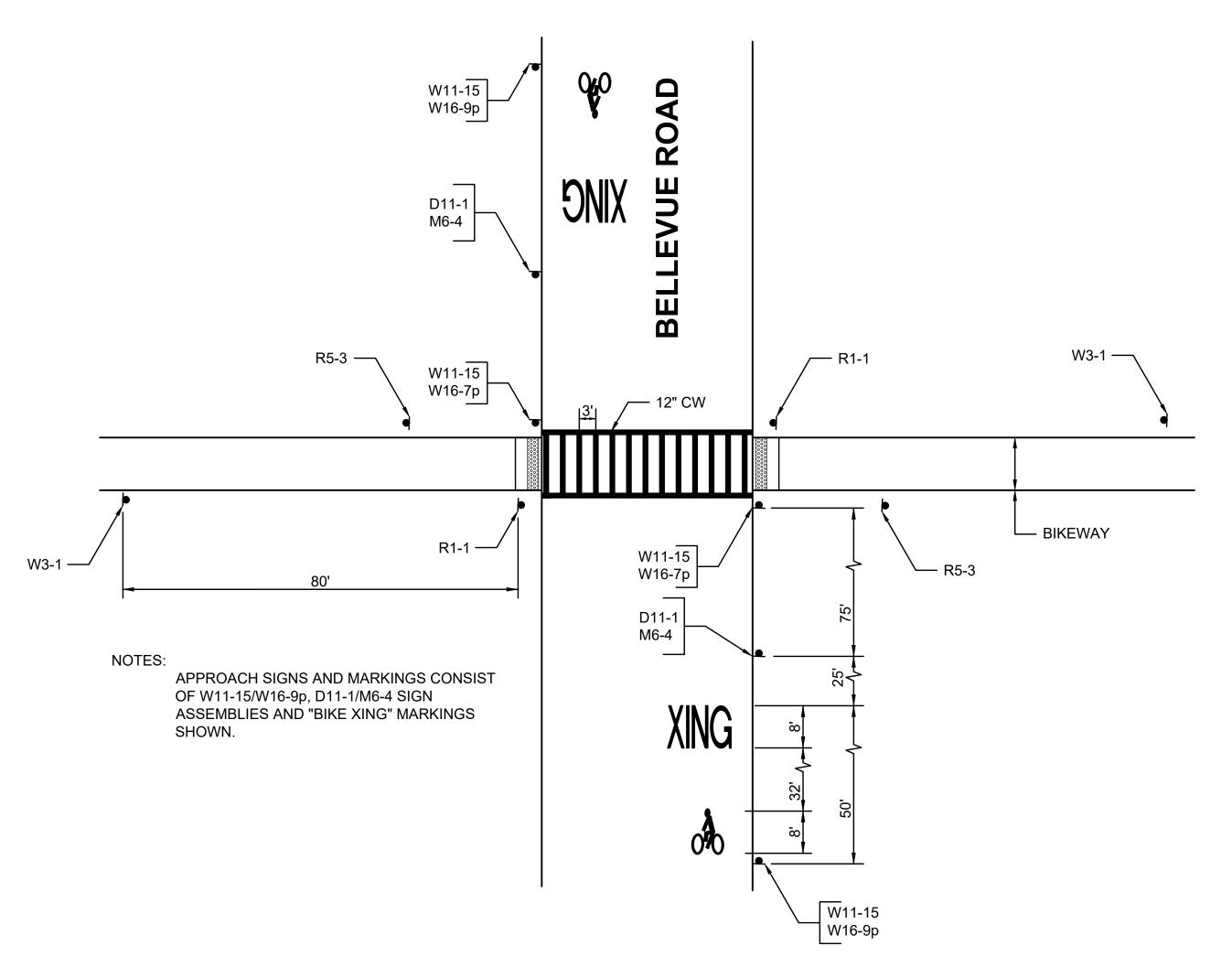
SWAMPSCOTT SWAMPSCOTT RAIL TRAIL

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS						
MA	FOR BID: 2020-04-06	9	18						
STANTEC PROJECT NO. 179410549									

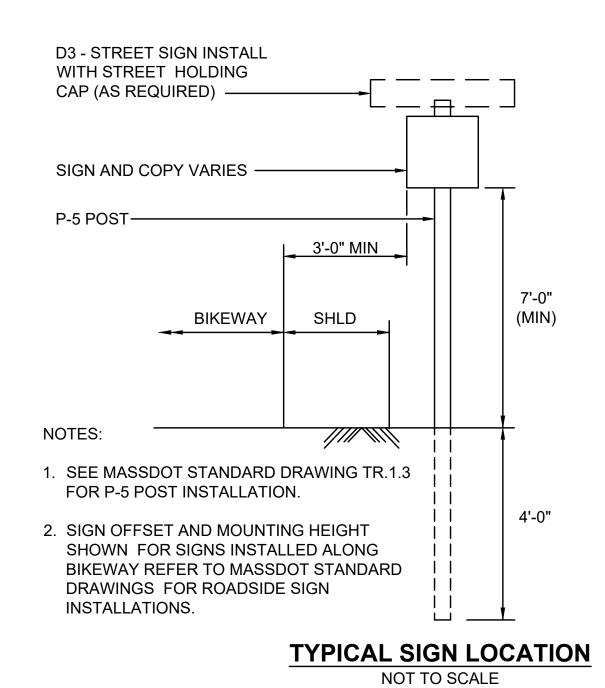
TRAFFIC SIGN SUMMARY

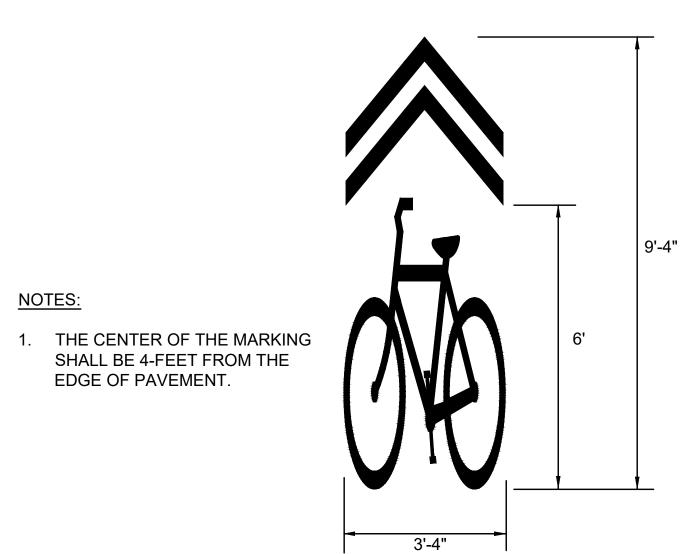
TRAFFIC SIGN SUMMARY

	SIZE C	F SIGN			TE	EXT DIMENSIO	NS			COLOR			
IDENTIFICA F TION NUMBER	WIDTH	HEIGHT	UNIT AREA (SF)	TEXT	LETTER HEIGHT	VERTICAL SPACING	ARROW	NUMBER OF SIGNS REQUIRED	BACK- GROUND	LEGEND	BORDER	POST SIZE AND NUMBER REQUIRED	AREA (SF)
D11-1	24"	18"	3.00	BIKE ROUTE	2009 MUTCD	2009 MUTCD	2009 MUTCD	3	GREEN	WHITE	WHITE	1-P5 3	9.00
M4-6	12"	6"	0.50	END	2009 MUTCD	2009 MUTCD	2009 MUTCD	1	GREEN	WHITE	WHITE	MOUNT 1 WITH D11-1	0.50
M6-4	12"	9"	0.75		2009 MUTCD	2009 MUTCD	2009 MUTCD	2	GREEN	WHITE	WHITE	MOUNT 2 WITH D11-1	1.50
R1-1 (PATH)	18"	18"	2.25	STOP	2009 MUTCD	2009 MUTCD	2009 MUTCD	3	RED	WHITE	WHITE	1-P5 3	6.75
R5-3	24"	24"	4.00	NO MOTOR VEHICLES	2009 MUTCD	2009 MUTCD	2009 MUTCD	3	WHITE	BLACK	BLACK	1-P5 3	12.00
W3-1	18"	18"	2.25		2009 MUTCD	2009 MUTCD	2009 MUTCD	1	YELLOW	BLACK/ RED	BLACK	1-P5 1	2.25
W11-15	30"	30"	6.25	\$ 100 miles	2009 MUTCD	2009 MUTCD	2009 MUTCD	4	YELLOW	BLACK	BLACK	1-P5 4	25.00
W16-9p	24"	12"	2.00	AHEAD	2009 MUTCD	2009 MUTCD	2009 MUTCD	2	YELLOW	BLACK	BLACK	MOUNT 2 WITH W11-15	4.00
W16-7pL	24"	12"	2.00		2009 MUTCD	2009 MUTCD	2009 MUTCD	2	YELLOW	BLACK	BLACK	MOUNT 2 WITH W11-15	4.00



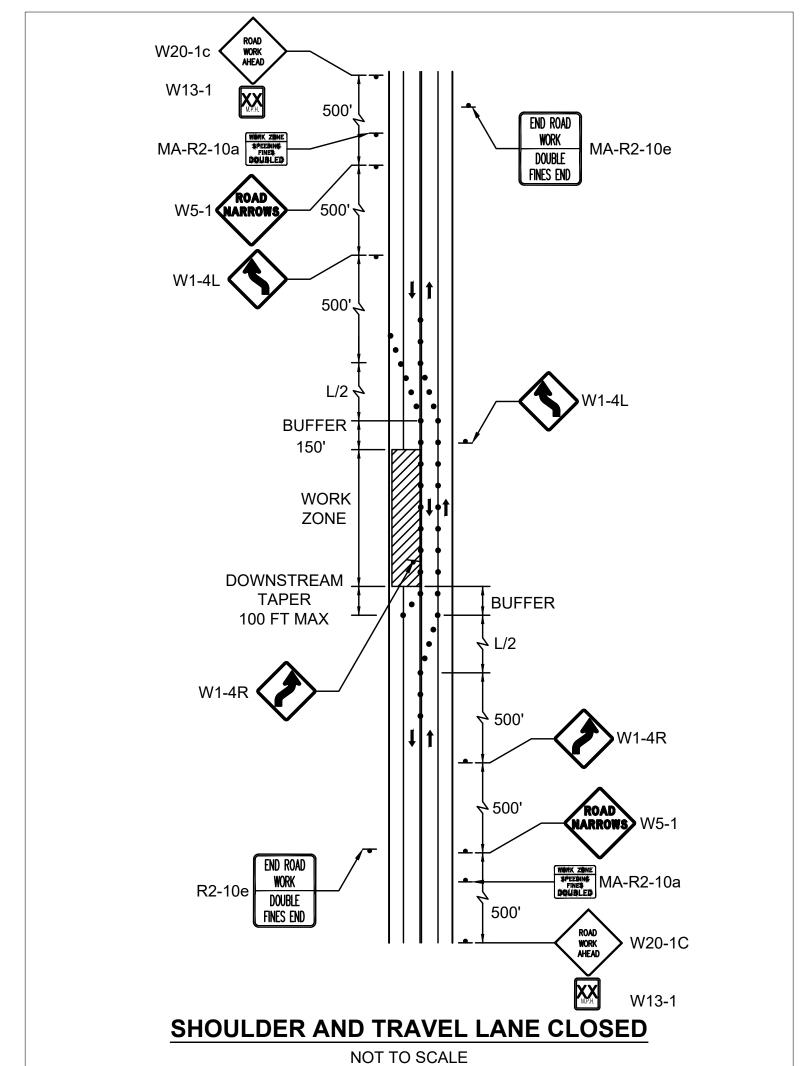
TYPICAL INTERSECTION SIGNS AND MARKINGS NOT TO SCALE

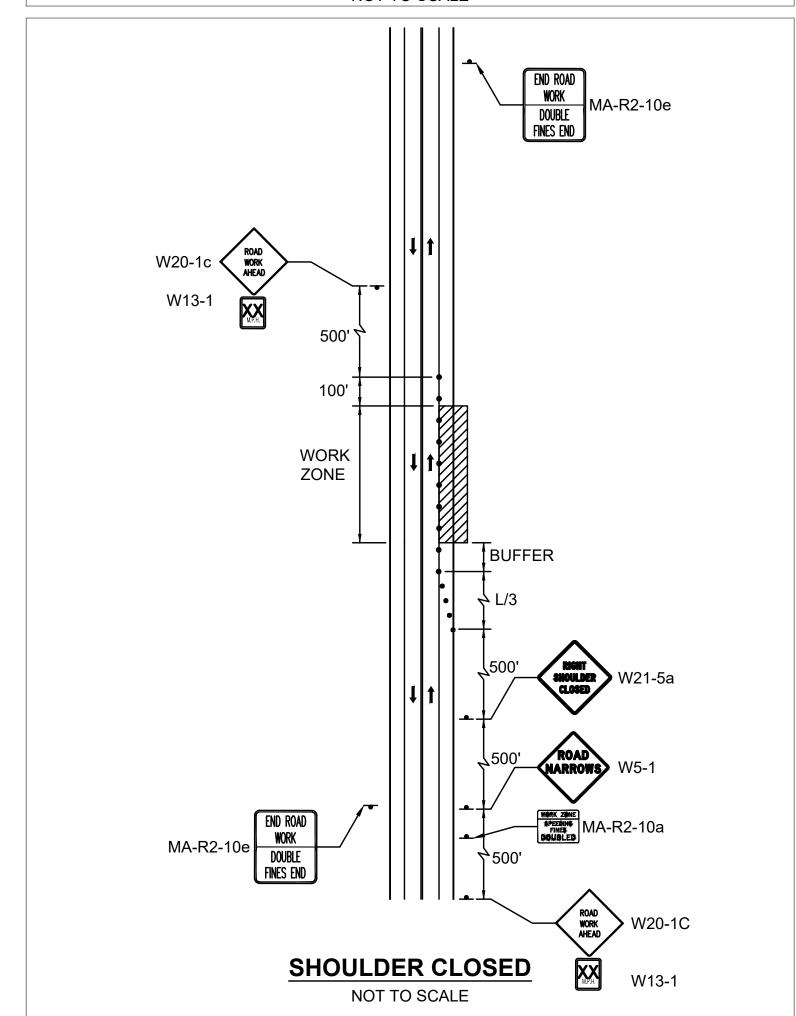


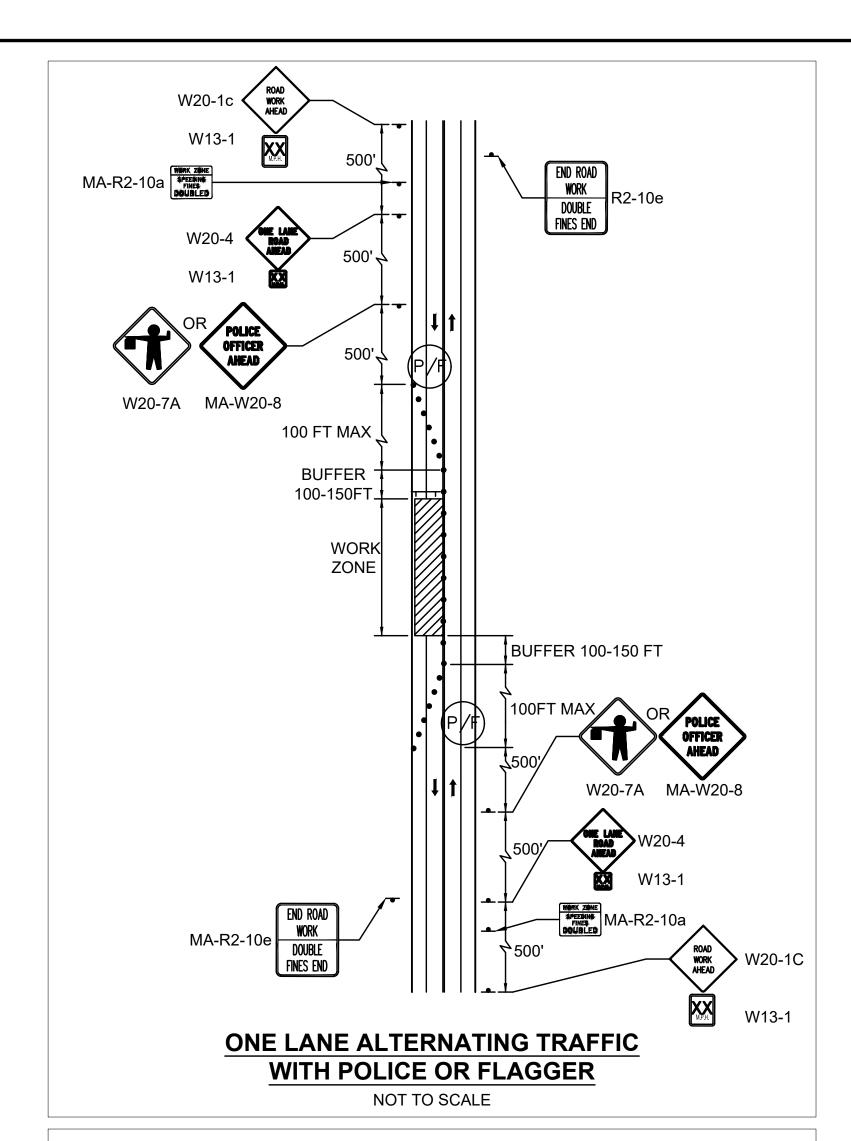


SHARED LANE MARKING NOT TO SCALE

NOTES:







NOTES:

- 1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE 2009 EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND MASSACHUSETTS AMENDMENTS.
- 2. ALL SIGN LEGENDS, BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE 2009 MUTCD.
- 3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- 4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, AND REFLECTORIZED PLASTIC DRUMS WITH LIGHTING DEVICES MOUNTED ON THEM, SHALL PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES."
- 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.
- 7. THE FIRST TEN PLASTIC REFLECTORIZED DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
- 8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- 9. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE
- 10. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- 11. MINIMUM LANE WIDTH SHALL BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- 12. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
- 13. ALL TEMPORARY WALKWAYS SHALL MEET ADA/AAB GUIDELINES.
- 14. NO LANE CLOSURE WILL BE PERMITTED DURING PEAK HOUR TRAFFIC.

CONSTRUCTION SIGN SUMMARY

IDENTIFI-	SIZE C	F SIGN	TEXT			Γ DIMEI				NUMBER OF SIGNS			COI	OR			POST SIZE AND	AREA IN
CATION NUMBER	WIDTH	HEIGHT	ΙΕΛΙ	LETT HEIG	ER HT	VERTI SPAC	CAL	ARR	ROW	SIGNS REQUIRED	BA0 GRO	CK- UND	LEG	END	BOR	DER	NUMBER REQUIRED	SQUARE FEET
MA-R2-10a	48"	36"	WORK ZONE \$PEEDING FINES DOUBLED			SSDOT				2			SDO ⁻	ΓSTA	NDA	RDS		24.00
MA-R2-10e	36"	18"	END ROAD WORK DOUBLE FINES END	SEE	MAS	SSDOT	STAI	NDAF	RDS	2	SEE	MAS	SDO ⁻	ΓSTA	ANDA	RDS		9.00
S-G20-1 (SEE DETAIL BELOW)	42"	24"	BIKEPATH CLOSED DURING CONSTRUCTION	4"		3"	,	N	/A	2	WH	ITE	BLA	CK	BLA	ACK		14.00
W1-4L	36"	36"	\$		SE	E 2009	MUT	CD 		2		SEE	2009) MU⁻	TCD			18.00
W1-4R	36'	36"								2								18.00
W13-1	18"	18"	XX M.P.H.							4								9.00
W5-1	36"	36"	ROAD							2								18.00
W20-1c	36"	36"	ROAD WORK AHEAD							4								36.00
W20-4c	36"	36"	ONE LANE ROAD AHEAD							2								18.00
W21-5aR	36"	36"	RIGHT SHOULDER CLOSED							1								9.00
W20-7A	36"	36"		\						2								18.00
— OR —	— OR —	— OR —	OR							— OR —								— OR —
MA-W20-8	36"	36"	POLICE OFFICER AHEAD	SEE	MAS	I SSDOT 	STA	i Ndaf 	RDS	2	1			1				18.00

SWAMPSCOTT SWAMPSCOTT RAIL TRAIL

STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS					
MA	FOR BID: 2020-04-06	11	18					
STANTEC PROJECT NO. 179410549								

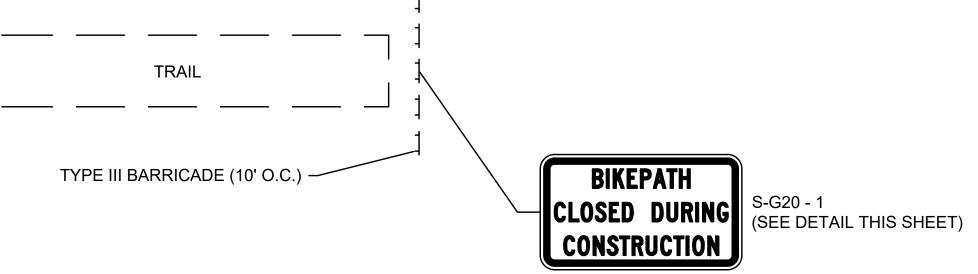
TEMPORARY TRAFFIC CONTROL PLANS

LEGEND

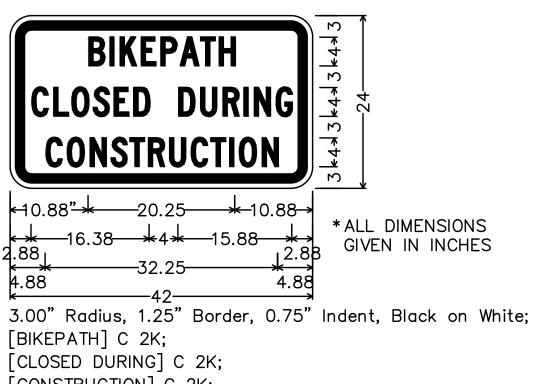
- REFLECTORIZED DRUM
- TYPE III BARRICADE WITH WARNING LIGHTS

WORK ZONE

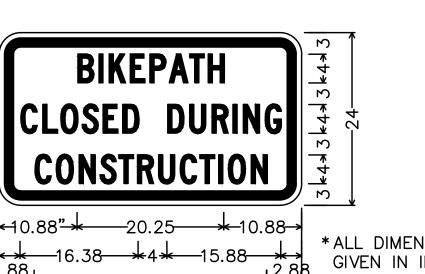
(P/F) POLICE OFFICER/FLAGGER



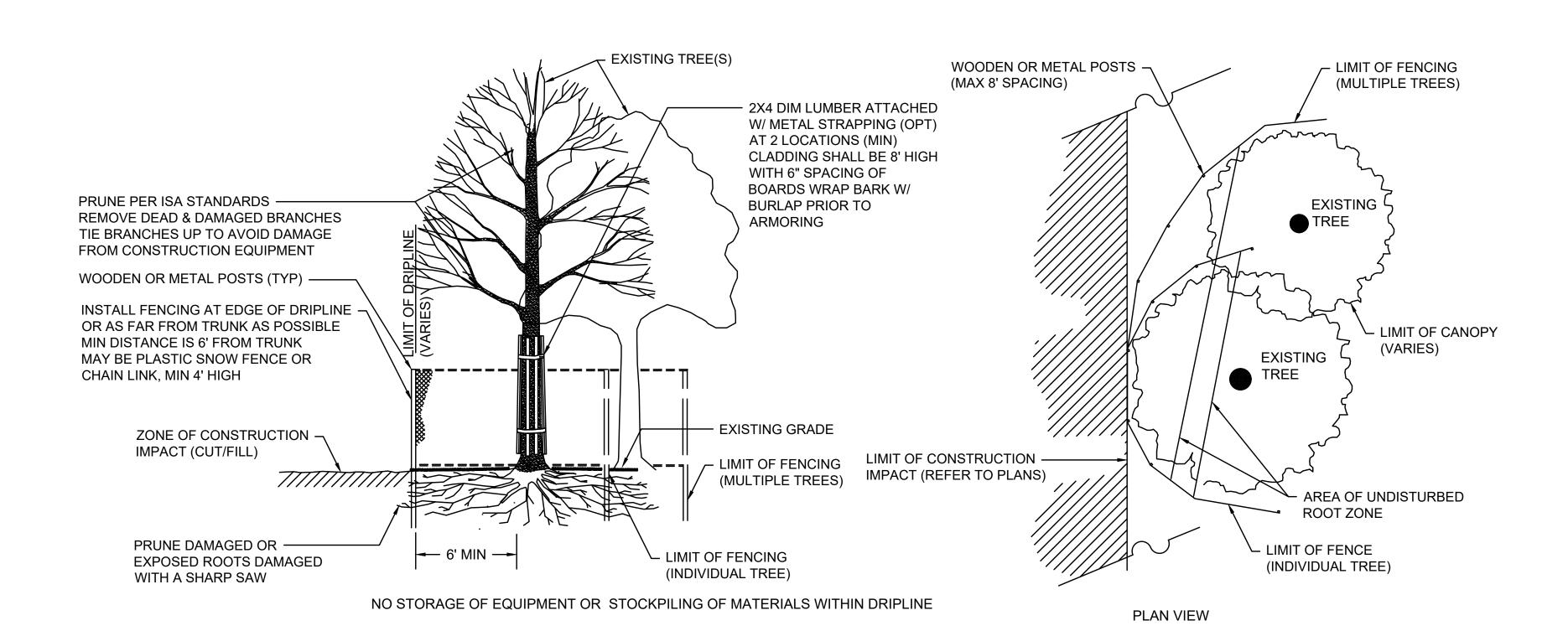
TYPICAL PATH CLOSURE NOT TO SCALE



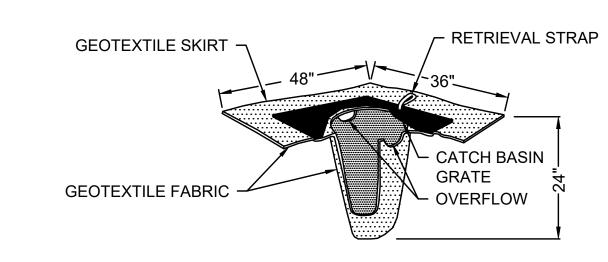
SIGN ON SUPPORT



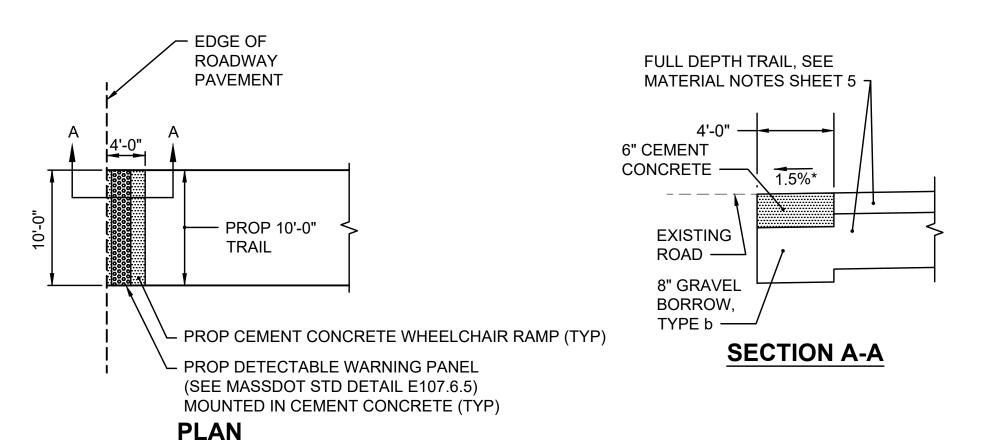
[CONSTRUCTION] C 2K; SIGN (S-G20-1) DETAIL NOT TO SCALE



TREE PROTECTION - EXISTING TREE(S)
NOT TO SCALE



SILT SACK FOR SEDIMENT CONTROL
NOT TO SCALE

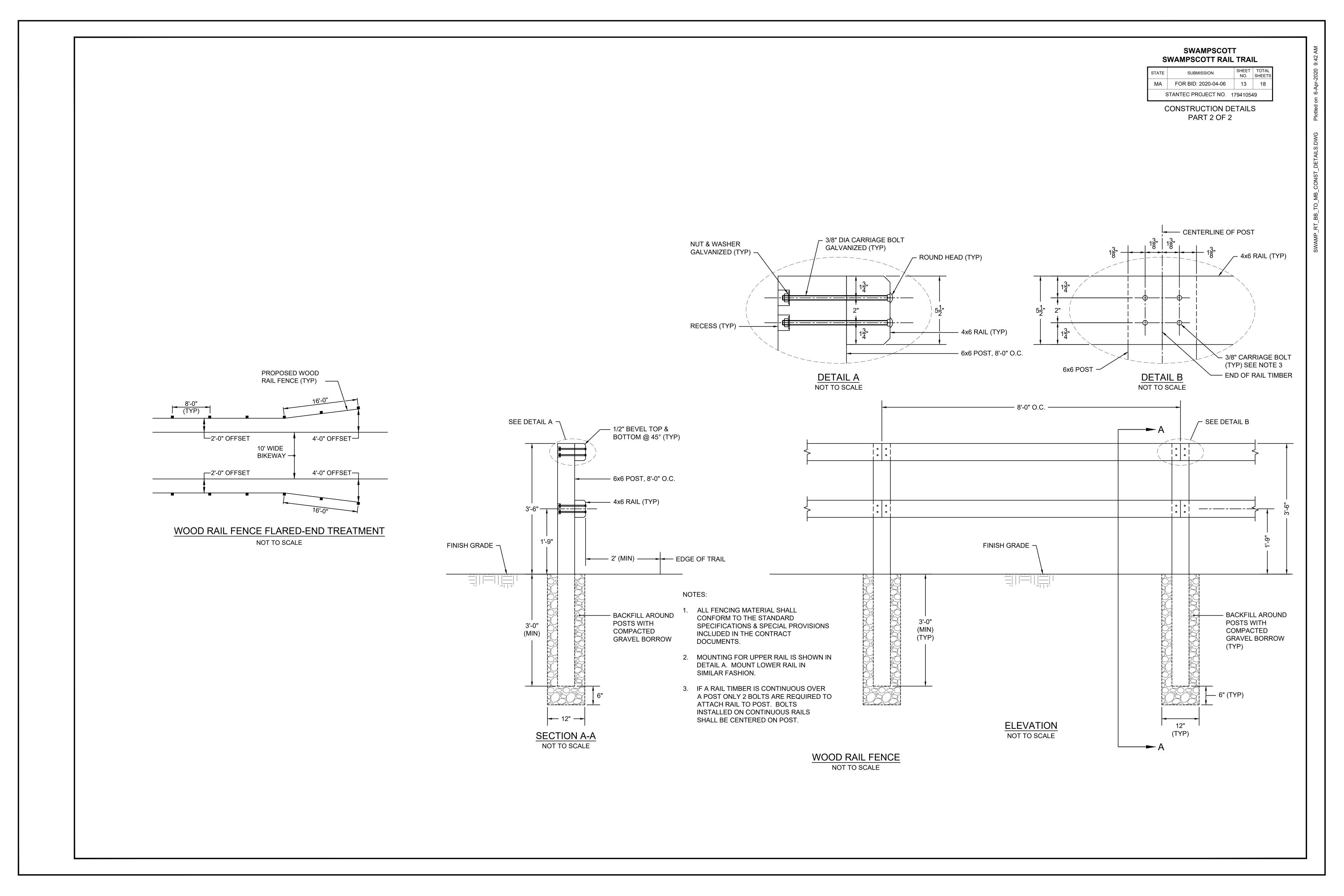


NOTES:

- 1. WHEELCHAIR RAMPS AND DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSDOT CONSTRUCTION STANDARD DRAWINGS NUMBERED 107.2.0, 107.2.1, 107.6.0, 107.6.4, 107.6.5, 107.7.0 AND 107.9.0 AND ADA/ MA AAB REQUIREMENTS.
- 2. DETECTABLE WARNING PANELS ARE REQUIRED ON ALL PROPOSED WHEELCHAIR RAMPS AND ARE TO BE INSTALLED IN ACCORDANCE WITH CONSTRUCTION STANDARD 107.6.5. DETECTIBLE WARNING PANELS SHALL BE PLACED PERPENDICULAR TO THE PATH OF TRAVEL AND NOT THE CURB LINE.
- 3. ALL DETECTABLE WARNING PANELS SHALL BE CAST IRON AND MOUNTED IN CEMENT CONCRETE.
- * TOLERANCE FOR CONSTRUCTION ±0.5% (TYP.)

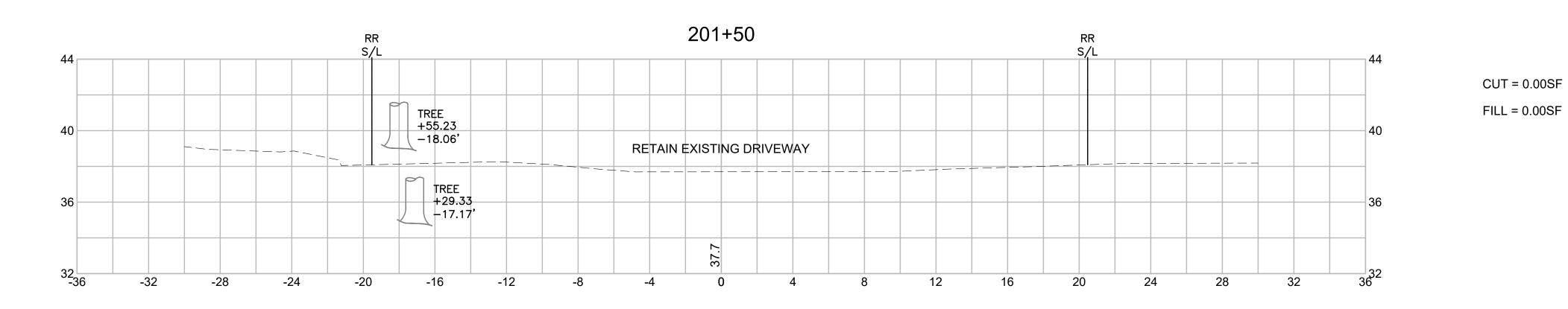
DETECTABLE WARNING PANEL AT TRAIL INTERSECTION

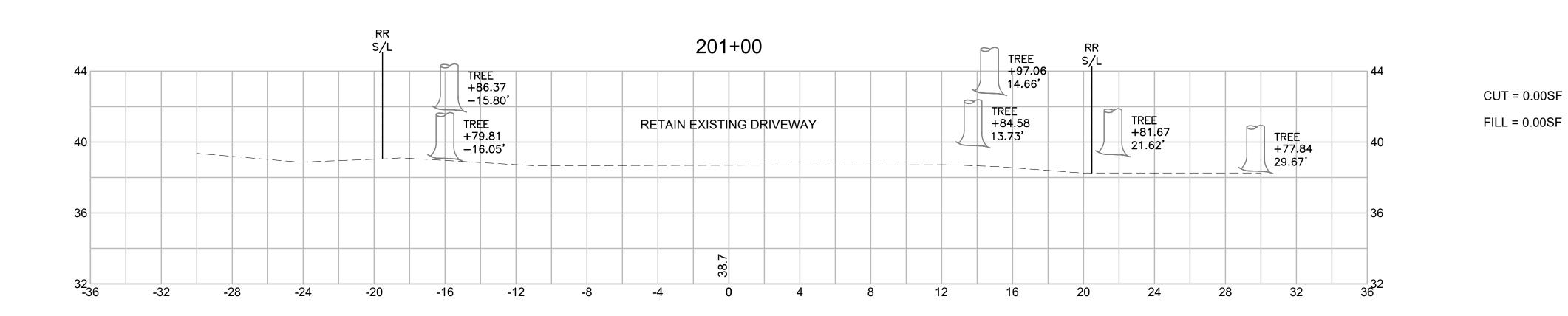
NOT TO SCALE

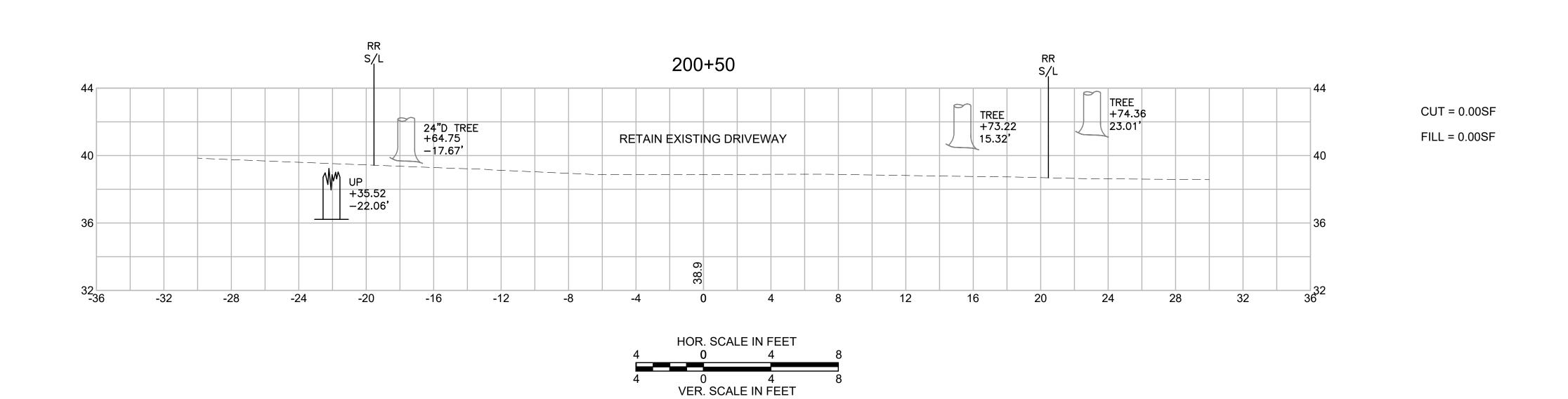


STATE	SUBMISSION	SHEET NO.	TOTAL SHEETS					
MA	FOR BID: 2020-04-06	14	18					
STANTEC PROJECT NO. 179410549								

CROSS SECTIONS PART 1 OF 5







SWAMPSCOTT SWAMPSCOTT RAIL TRAIL SUBMISSION MA FOR BID: 2020-04-06 15 18 STANTEC PROJECT NO. 179410549 CROSS SECTIONS PART 2 OF 5 CUT = 0.00SF FILL = 0.00SF CUT = 0.00SF FILL = 0.00SF CUT = 0.00SF FILL = 0.00SF

203+00

RETAIN EXISTING DRIVEWAY

202+50

RETAIN EXISTING DRIVEWAY

202+00

HOR. SCALE IN FEET

VER. SCALE IN FEET

TREE +10.24 -8.95 RETAIN EXISTING DRIVEWAY

TREE +02.11

-10.23'

TREE +55.61 -18.84'

TREE +15.46 -18.34'

> TREE +87.38 -19.24

TREE +79.82 -19.13' UP +94.01 -11.79'

-12

TREE +00.41 -19.94' RR S/L

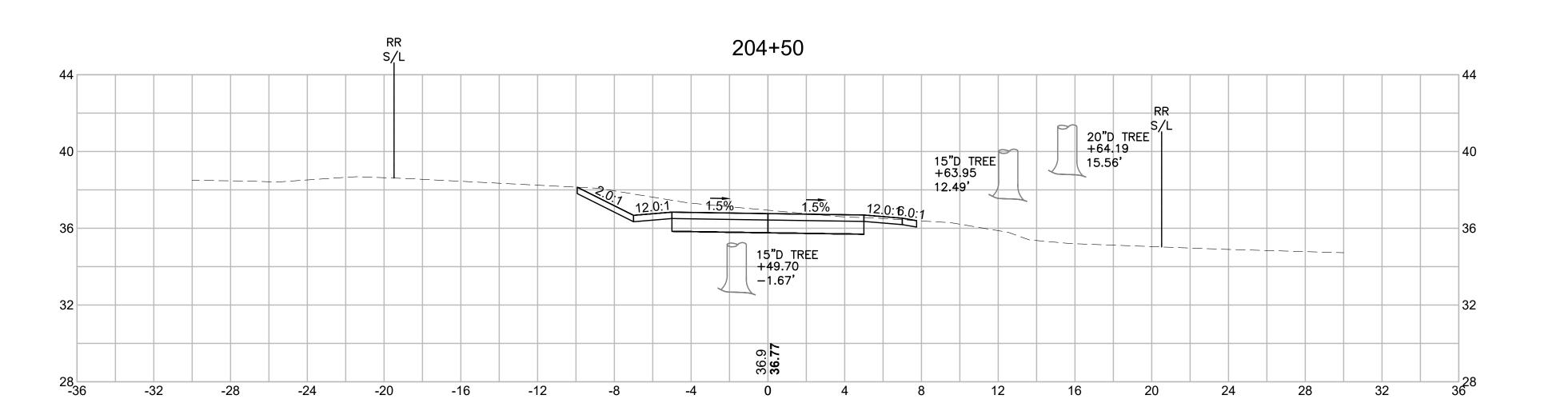
RR

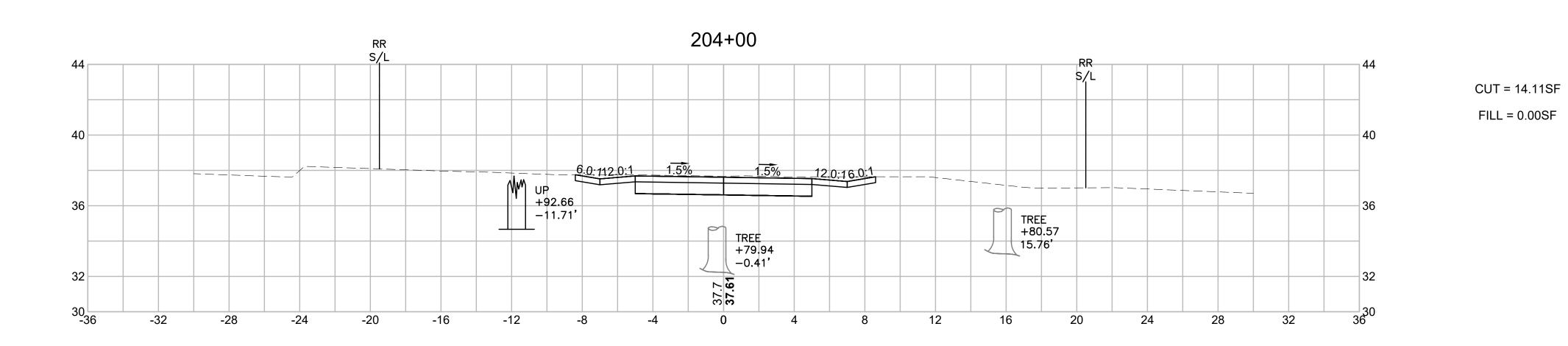
STATE	SUBMISSION	SHEET NO.	TOTAL						
MA	FOR BID: 2020-04-06	16	18						
STANTEC PROJECT NO. 179410549									

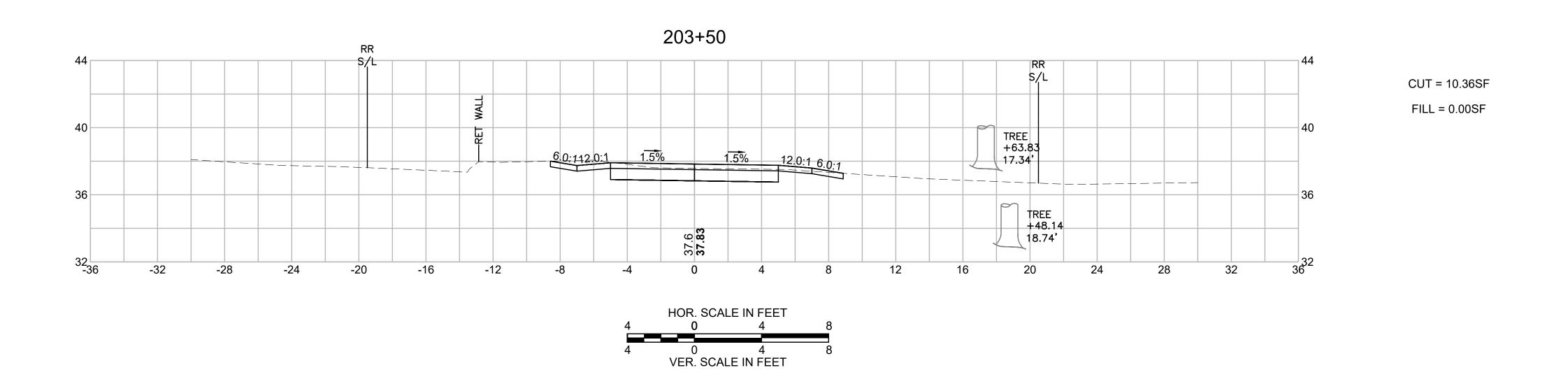
CROSS SECTIONS PART 3 OF 5

CUT = 17.66SF

FILL = 0.00SF

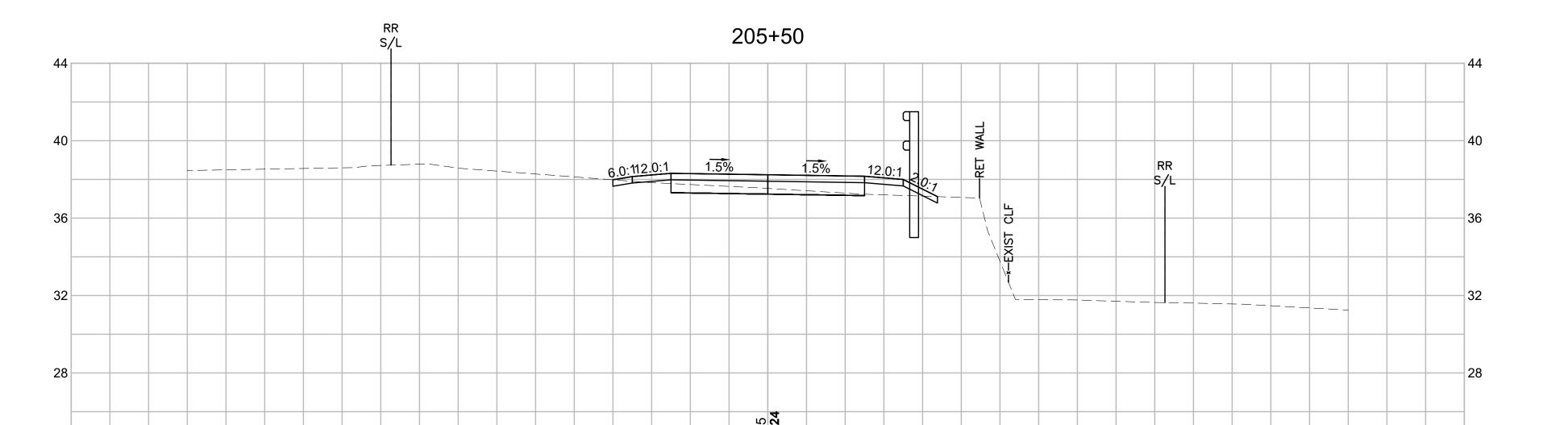




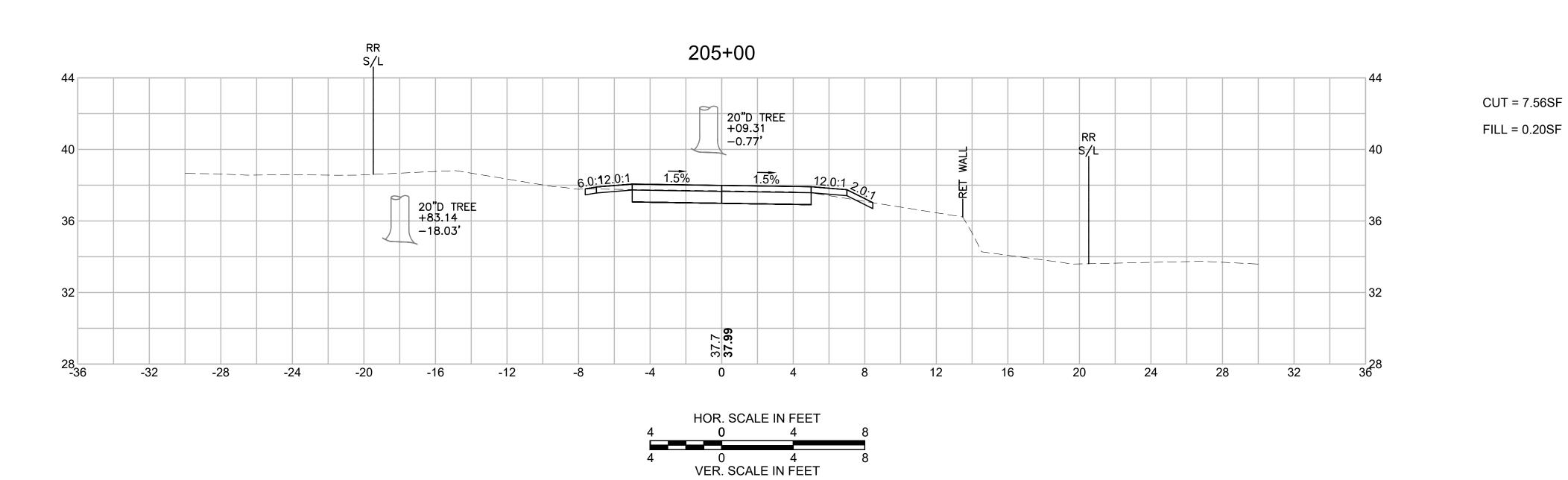


STATE	SUBMISSION	SHEET NO.	TOTAL SHEET
MA	FOR BID: 2020-04-06	17	18
5	17941054	19	

CROSS SECTIONS PART 4 OF 5

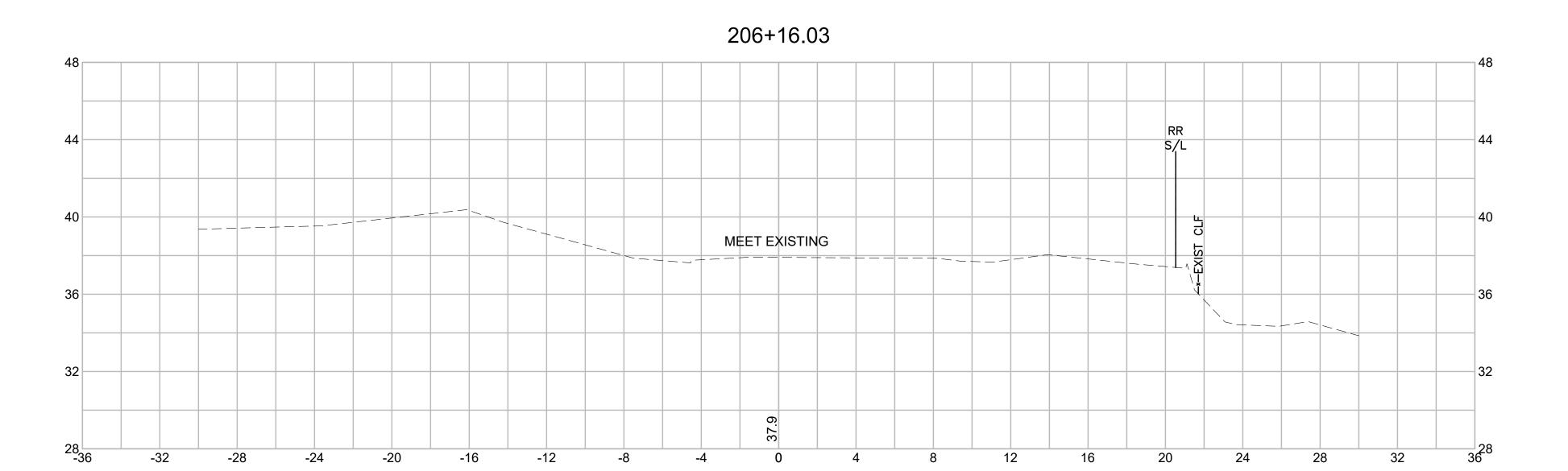


CUT = 3.20SF FILL = 1.49SF



STATE	SUBMISSION	SHEET NO.	TOTAL
MA	FOR BID: 2020-04-06	18	18
STANTEC PROJECT NO. 179410549			

CROSS SECTIONS PART 5 OF 5



CUT = 0.00SF FILL = 0.00SF

