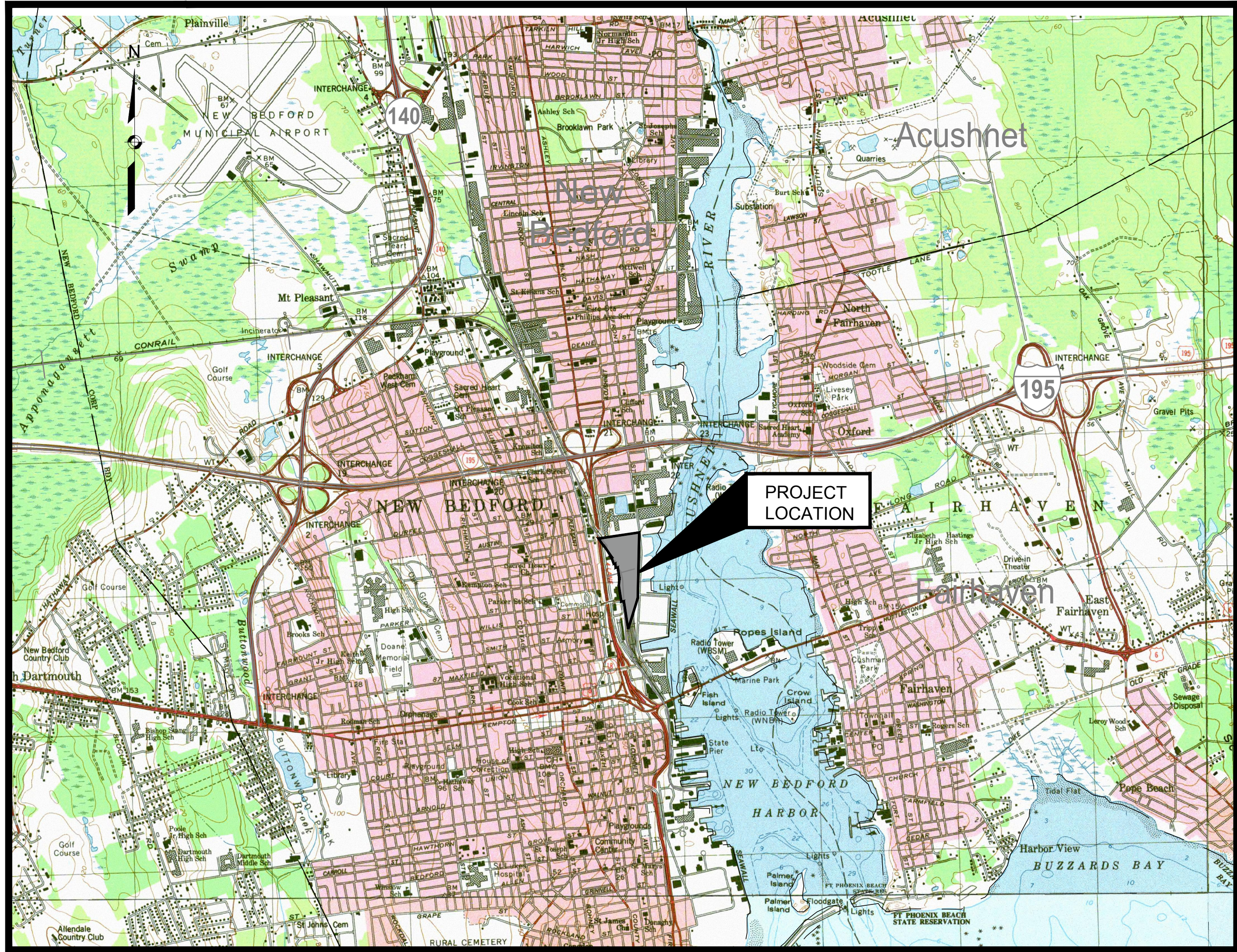
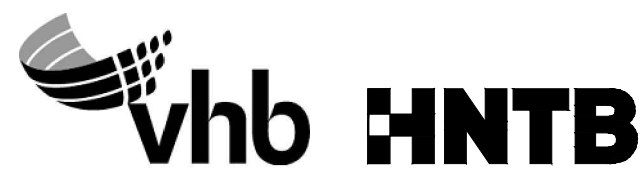


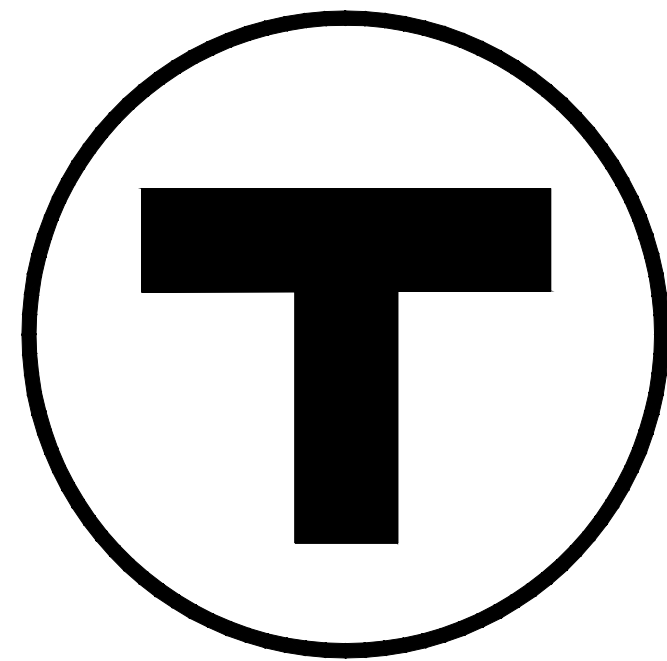
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99 HIGH STREET
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MASSACHUSETTS
BAY
TRANSPORTATION
AUTHORITY

South Coast Rail

Wamsutta Layover Notice of Intent Plans Track and Facility Infrastructure

SEPTEMBER 7, 2017
REVISED NOVEMBER 28, 2017

APPROVALS:

Edmund F. Hunter
Assistant General Manager for Design and Construction

Date:

James E. Jackson, P.E.
Director of Design and Construction - Commuter Rail

Date:

DRAWING INDEX

NEW BEDFORD NOI WAMSUTTA LAYOVER DRAWING LIST

SHEET NO. LINE DRAWING DESCRIPTION

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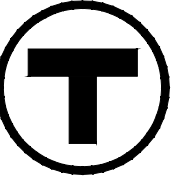

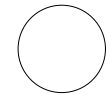
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WAMSUTTA LAYOVER FACILITY

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ISSUED FOR NOTICE OF INTENT

							MASSACHUSETTS BAY TRANSPORTATION AUTHORITY				
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						APPROVED BY:					
PROJECT MANAGER			Date			PROJECT MANAGER			Date		
HORIZ: NONE			DES. BY			DR. BY			CHK. BY		
VERT: NONE			ADZ			RRD			KJC		
DATE: 08/04/2017											
									PLAN NO.		
									SHEET GN-301		
											

FILE NAME: SEGMENT3_EV(GN_WAMSUTTA).DWG

GENERAL

- ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
- THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
- WORK IMPACTING RAILROAD PROPERTY AND / OR RIGHT-OF-WAY SHALL BE COORDINATED WITH MBTA, KEOLIS, MCRR, AND CSX.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. ALL CONSTRUCTION ACTIVITY SHALL BE IN ACCORDANCE WITH MassDOT, MBTA & OSHA STANDARDS AND LOCAL REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE 72 HOURS NOTICE TO ALL PRIVATE PROPERTY OWNERS ABUTTING CONSTRUCTION AREAS PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO APPLICABLE MUNICIPAL AND / OR STATE HIGHWAY STANDARDS.
- ALL SIGNAGE AND PAVEMENT MARKINGS WITH MUNICIPAL AND STATE HIGHWAY LAYOUT SHALL CONFORM TO THE 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
- ALL PROPOSED GRANITE BOUNDS AND ANY EXISTING MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A PROFESSIONAL LAND SURVEYOR (PLS).
- ALL EXISTING U.S.G.S DISKS, HIGHWAY BOUNDS, RAILROAD MONUMENTS, PROPERTY BOUNDS, AND CITY BOUNDS SHALL BE PROTECTED AND RAISED TO FINISHED GRADE AS REQUIRED, U.S.G.S. AND MASSDOT RESPECTIVELY. ANY DAMAGE TO U.S.G.S DISKS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND THE U.S. GEOLOGICAL SURVEY AND SHALL BE REPAIRED AT NO COST TO THE AUTHORITY. ANY DAMAGE TO TOWN BOUNDS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND MASSDOT AND SHALL BE REPAIRED AT NO COST TO THE AUTHORITY. THE CONTRACTOR SHALL INVENTORY ALL SUCH BOUNDS, DISKS, AND MONUMENTS PRIOR TO THE START OF ANY WORK.
- ALL EXISTING ROADWAY SIGNS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND STACKED UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- CONTRACTOR SHALL INSTALL APPROVED EROSION CONTROL MEASURES PRIOR TO EARTHWORK OPERATION AND MAINTAIN EROSION CONTROL MEASURES AND SEEDED EMBANKMENTS DURING CONSTRUCTION. EROSION CONTROL SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
- TEMPORARY CONSTRUCTION EASEMENT AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITIONS UNLESS OTHERWISE NOTED AT NO ADDITIONAL COST TO THE PROJECT.
- AREAS OUTSIDE THE LIMIT OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
- JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH HOT POURED RUBBERIZED ASPHALT SEALER AND BACKSANDED.
- ALL AREAS DISTURBED DURING CONSTRUCTION EXCEPT PAVEMENT AND STRUCTURES SHALL RECEIVE LOAM AND SEEDING PER THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
- TREES AND SHRUBS OUTSIDE THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.

EXISTING CONDITIONS

- HORIZONTAL DATUM IS REFERENCED TO THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM - NORTH AMERICAN DATUM OF 1983(2011). LOCUS IS WITHIN THE MAINLAND ZONE. SOURCE CONTROL FOR THE TIE TO THE DATUMS IS MAINE TECHNICAL SOURCE'S REFERENCE STATIONS IN FOXBOROUGH, MA (XMTS), MASSDOT CORS STATION (MAMI) IN MILTON, MA, MASSDOT CORS STATION (MADA) IN DARTMOUTH AND COAST GUARD STATION (ACU6) IN ACUSHNET MA. COORDINATE VALUES WERE DERIVED USING STATIC METHODS BASED ON VARIOUS COMBINATIONS OF THE AFOREMENTIONED CORS STATIONS.
- VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). SOURCE CONTROL FOR THE TIE TO THE VERTICAL DATUM ARE SAME CORS STATIONS REFERRED TO IN NOTE 1.
- BOUNDARY INFORMATION SHOWN (IF ANY) IS FROM GIS DATA SOURCES ONLY, UNLESS NOTED OTHERWISE. BOUNDARY SURVEY OR RETRACEMENT OF THE RIGHT OF WAY HAS NOT BEEN PERFORMED BY BRYANT ASSOCIATES OR PRIME AE GROUP.
- SURVEY DATA SHOWN HAS BEEN PREPARED BY BRYANT ASSOCIATES, INC., 90 CANAL STREET, SUITE 301, BOSTON, MA 02114 (617) 248-0300 AND PRIME AE GROUP, INC., 55 CAPITAL BOULEVARD, 2ND FLOOR, ROCKY HILL, CT 06067 (860) 436-5600. GENERICALLY AND WITH SOME EXCEPTIONS, BRYANT HAS PRODUCED THE DATA NORTH OF WEIR JUNCTION AND SOUTH OF MYRICK'S JUNCTION ON THE FALL RIVER SECONDARY TO THE TERMINUS IN FALL RIVER. PRIME HAS PRODUCED THE DATA SOUTH OF WEIR JUNCTION ON THE NEW BEDFORD MAINLINE TO THE TERMINUS IN NEW BEDFORD. THE SURVEY DATA HAS BEEN COMPILED UTILIZING MANY DIFFERENT TECHNOLOGIES TO MATCH THE BEST PRACTICES AND REQUIREMENTS OF THE PROJECT. AERIAL DATA WAS PROVIDED BY COL-EAST, INC. THROUGHOUT THE PROJECT CORRIDOR BASED ON SURVEY CONTROLS PROVIDED BY BRYANT ASSOCIATES. MAPPING WAS SPECIFIED FOR 1"=20' WITH 1' CONTOUR ACCURACY. THE AERIAL SURVEY WAS SUPPLEMENTED WITH GROUND SURVEY PERFORMED USING TOTAL STATIONS AND LASER SCANNING.

EXISTING CONDITIONS (CONTINUED)

- THE SURFACE EVIDENCE OF THE UTILITIES SHOWN HAS BEEN LOCATED BY FIELD SURVEY, UNLESS NOTED OTHERWISE. THE LINWORK REPRESENTING ALL UNDERGROUND STRUCTURES AND PIPES HAS BEEN SHOWN HEREON IN ITS APPROXIMATE LOCATION BASED ON AVAILABLE RECORD PLANS. THE SURVEYORS MAKE NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. EVIDENCE OF ADDITIONAL UNDERGROUND UTILITIES EXIST WITHIN THE PROJECT CORRIDOR.
- WETLAND BOUNDARIES WERE DELINEATED AND SURVEYED IN 2012, AND SUPPLEMENTED IN 2015 AND 2016.
- THE CONTRACTOR SHALL CONFIRM EXISTING CONDITIONS AND REPORT ALL DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ENGINEER.
- UNLESS OTHERWISE NOTED, EXISTING RAILROAD RIGHT-OF-WAY LINES ARE APPROXIMATE AND SHALL BE DETERMINED BY THE CONTRACTOR AND STAKED IN THE FIELD BY A LAND SURVEYOR REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS PRIOR TO THE START OF WORK UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PLACE STAKES ALONG THE RAILROAD RIGHT-OF-WAY AT NO GREATER THAN 50' INTERVALS AND AT EACH CHANGE IN DIRECTION. STAKES SHALL BE MAINTAINED BY THE CONTRACTOR AND REPLACED IF DAMAGED OR REMOVED. ALL PROPERTY LINE DATA HAS BEEN COMPILED FROM AVAILABLE RECORD DRAWINGS AND ASSESSORS INFORMATION AND IS NOT WARRANTED TO BE CORRECT.

UTILITIES

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT "DIG SAFE" 72 HOURS PRIOR TO ANY EXCAVATION PERFORMED ON OR OFF SITE AT 1-888-344-7233 AND SHALL COORDINATE LOCATION OF NON "DIG SAFE" MEMBER UTILITIES WITHIN THE TIME FRAME SPECIFIED BY THE UTILITY OWNER.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS AND SHALL BE RESPONSIBLE FOR PAYING ANY FEES FOR ANY POLE RELOCATION AND FOR THE ALTERATION OR ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANY.
- THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, INVERTS, AND TYPES OF EXISTING PIPES AT ALL PROPOSED POINTS OF CONNECTION PRIOR TO ORDERING MATERIALS. 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 IN WRITING TO THE ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
- ALL EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE AND KEPT OPERATIONAL DURING CONSTRUCTION EXCEPT AS NOTED ON THE CONTRACT DRAWINGS. ANY NECESSARY DISRUPTION TO OR ABANDONMENT OF EXISTING UTILITIES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES AND CITIES / TOWNS THAT MAY BE AFFECTED BY ANY PORTION OF THIS CONSTRUCTION AND TO COORDINATE ALL WORK INVOLVING UTILITY COMPANIES OR CITY / TOWN FACILITIES, WHETHER THOSE FACILITIES ARE EXISTING OR PROPOSED. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPORT AND PROTECT EXISTING UTILITIES IN AND AROUND EXCAVATIONS. PROTECTION AND OR SUPPORT SHALL BE CONSIDERED INCIDENTAL WORK AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEM BEING INSTALLED.
- EXISTING UTILITIES CALLED FOR TO BE RELOCATED SHALL BE VERIFIED WITH RESPECTIVE CONTROLLING AUTHORITY AS TO THEIR FINAL DISPOSITION.
- ALL ABOVE GRADE STRUCTURES, POLES, TRANSFORMERS, ETC. TO BE RELOCATED SHALL BE PLACED AT OR BEYOND THE REQUIRED MBTA STANDARD CLEARANCE FROM THE CENTERLINE OF ANY EXISTING AND FUTURE TRACK.
- ALL UTILITY SURFACE CASTINGS (COVERS, GRATES, GATE BOXES, ETC.) TO REMAIN SHALL BE ADJUSTED TO THE NEW SURFACE GRADE AS REQUIRED, WHETHER OR NOT CALLED FOR ON THE PLANS.
- THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK CONFORMING TO M4.05.2 OF THE MASSDOT HIGHWAY STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER, AND UTILITY FACILITIES FROM ALL LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- FIELD VERIFY EXISTING DRAINAGE MANHOLE AND CATCH BASIN INVERTS AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ENGINEER PRIOR TO START OF ANY DRAINAGE INSTALLATION.
- ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL, MAINTAIN, AND REMOVE APPROVED EROSION CONTROL CHECKS AROUND CATCH BASIN FRAMES AND GRATES TO PREVENT RUNOFF SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

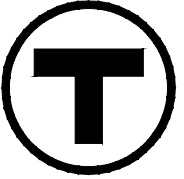

SITE PREPARATION

- MAINTAIN EXISTING DRAINAGE SYSTEM TO THE GREATEST POSSIBLE EXTENT DURING ALL CONSTRUCTION ACTIVITIES.
- DEMOLITION TO BE PERFORMED IN ACCORDANCE WITH MASSACHUSETTS STATE BUILDING CODE.
- DISCONNECT ALL UTILITIES AND CAP EXISTING FIELD LINES SUCH AS GAS MAINS, WATER MAINS, AND ELECTRICAL BEFORE STARTING DEMOLITION. COORDINATE THE UTILITY DISCONNECTS WITH THE APPLICABLE UTILITY COMPANY.
- PROTECT ANY ADJOINING STRUCTURES AND SAFEGUARD THE NEIGHBORING AREAS FROM DUST AND DEBRIS.
- ALL EXISTING RETAINING WALL FOUNDATIONS, COLUMNS, GRADE BEAMS, GRADE SLABS, ETC. SHALL BE DEMOLISHED UP TO 2' BELOW THE PROPOSED FINISHED GRADE UNLESS OTHERWISE NOTED.
- ALL DEMOLISHED MATERIALS, RUBBISH, EXCAVATED MATERIALS AND DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- DISPOSAL OF HAZARDOUS WASTE SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, REGULATIONS, AND PROJECT SPECIFICATIONS. ALL DEMOLISHED MATERIALS SHALL BE DISPOSED OF LEGALLY AS PER PROJECT SPECIFICATIONS.

TRACK AND RAILROAD

- THE CONTRACTOR SHALL NOT ENTER ONTO RAILROAD RIGHT-OF-WAY WITHOUT PERMISSION OF OPERATING RAILROAD NOR WITHOUT AN APPOINTED RAILROAD FLAGMAN ON DUTY.
- LIMITS OF TIE-IN POINTS INTO EXISTING TRACKWORK ARE APPROXIMATE. ACTUAL LIMITS SHALL BE DETERMINED IN FINAL DESIGN AND SHALL CONSIST OF A WELD CONNECTION.
- EXISTING TRACK CONSISTS OF VARIOUS SIZES OF WELDED AND JOINTED RAIL, SINGLE AND DOUBLE SHOULDER TIE PLATES, RAIL ANCHORS OF VARIOUS TYPES, TIMBER AND CONCRETE TIES, AND SOME GAUGE BARS.
- PROPOSED COMMUTER RAIL TRACKS SHALL CONSIST OF 136# RE CWR ON NEW 8'-6" x 7" x 9" PRESSURE TREATED TIMBER CROSSTIES WITH RESILIENT FASTENERS.
- BRIDGE GUARD RAIL WILL CONSIST OF 115# RE SECONDHAND RAIL.
- TIES ON ALL PROPOSED TRACK CONSTRUCTION SHALL BE AT 19.5" CENTER TO CENTER SPACING EXCEPT WITHIN THE LIMITS OF BRIDGE GUARD RAIL AND AT-GRADE ROADWAY CROSSINGS WHERE SPACING SHALL BE 18".
- LINE SIDE OF THE TRACK SHALL BE THE RIGHT SIDE LOOKING UPSTATION (SOUTHERLY).
- LEFT AND RIGHT SHALL BE THE LEFT AND RIGHT SIDES OF THE TRACK LOOKING UPSTATION (SOUTHERLY).
- RAILROAD PROFILE GRADE LINE OF TRACK IS THE TOP OF LOW RAIL IN ALL CASES.
- COMPROMISE CONNECTIONS FOR TRACK WILL CONSIST OF ONE 39' LENGTH OF 132# RE RAIL AND PAIRS OF COMPROMISE BARS FOR EACH RAIL. SEE MBTA STANDARD DRAWING No. 1328 FOR DETAILS.
- STANDARD TRACK GAUGE SHALL BE 4'-8 1/2" WHEN MEASURED BETWEEN THE RUNNING EDGES, 5/8" BELOW THE TOP OF RAIL FOR THE COMMUTER RAIL.
- THE CONTRACTOR SHALL REFER TO AND COMPLY WITH THE CURRENT ISSUE OF MASSACHUSETTS BAY TRANSPORTATION AUTHORITY RAIL OPERATIONS BOOK OF STANDARD PLANS FOR TRACK DETAILS RELATED TO THE FOLLOWING ELEMENTS: TIES, TIE SPACING AND SPIKING, SPIKES, TIE PLATES, FASTENERS, RAIL, AND ALL TURNOUT LAYOUTS AND DETAILS CORRESPONDING TO THE TURNOUT PROPOSED IN THESE PLANS.
- ALL PROPOSED CROSS SECTION EMBANKMENT SLOPES ARE 2:1, UNLESS SPECIFICALLY DENOTED OTHERWISE.

ISSUED FOR NOTICE OF INTENT

		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
		SOUTH COAST RAIL DESIGN ENGINEERING AND PM/CM SERVICES CONTRACT NO.	
		NEW BEDFORD MAIN LINE WAMSUTTA LAYOVER AND TRACK PLANS GENERAL NOTES	
		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY	
APPROVED BY:		Date	
PROJECT MANAGER		Date	
HORIZ: NONE	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	RRD	KJC
DATE: 08/04/2017			
PLAN NO.		ISSUE	
SHEET		GN-302	

ABBREVIATIONS

GENERAL	
ABD	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
CAB.	CABINET
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 (or CL)	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CONC	CONCRETE
CONST	CONSTRUCTION
CWK	CONCRETE WALK
DI	DROP INLET
DIA (or \varnothing)	DIAMETER
DIP	DUCTILE IRON PIPE
DMH	DRAIN MANHOLE
DWY	DRIVEWAY
DYL	DOUBLE YELLOW LINE
EC	EROSION CONTROL
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EMH	ELECTRIC MANHOLE
EOP (or EP)	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FES	FLARED END SECTION
FT	FOOT
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HDPE	HIGH DENSITY POLYETHYLENE
HH	HANDHOLE
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
IN	INCH
INV (or I)	INVERT
JCT	JUNCTION
L (or LT)	LEFT
L	LENGTH (OF CURVE)
LB	LEACH BASIN
LF	LINEAR FEET
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MBTA	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
MCRR	MASSACHUSETTS COASTAL RAILROAD
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

ABBREVIATIONS (cont.)

GENERAL	
NIC	NOT IN CONTRACT
NO.	NUMBER
OCS	OVERHEAD CONTACT SYSTEM
OFF	OFFSET
OHW	OVERHEAD WIRE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PED	PEDESTRIAN
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
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
R (or RT)	RADIUS OF CURVATURE, RIGHT, RIM
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
RGS	RIGID GALVANIZED STEEL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
S	SLOPE
SB	STONE BOUND
SD	STORM DRAIN
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET, STONE
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SIH	SIGNAL INSTRUMENT HOUSE
SW	SIDEWALK
SWEL	SOLID WHITE EDGE LINE
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TMH	TELEPHONE MANHOLE
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
U.S.G.S.	UNITED STATES GEOLOGICAL SURVEY
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
WMH	WATER MANHOLE
WQS	WATER QUALITY STRUCTURE
X-SECT	CROSS SECTION

RAILROAD TRACK / SIGNAL ABBREVIATIONS

CS	CURVE TO SPIRAL
CWR	CONTINUOUSLY WELDED RAIL
Ea	ACTUAL SUPERELEVATION
LB.	POUND
LVC	LENGTH OF VERTICAL CURVE
P/F	PASSENGER FREIGHT
PS	POINT OF SWITCH
r	RATE OF CHANGE
R	RADIUS
RE	AREMA (AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION)
SC	SPIRAL TO CURVE
S.E.	SUPER ELEVATION
ST	SPIRAL TO TANGENT
STA	STATION
TS	TANGENT TO SPIRAL
T/R	TOP OF RAIL

ENVIRONMENTAL ABBREVIATIONS

BF	BANK FLAG
BLSF	BORDERING LAND SUBJECT TO FLOODING
BVW	BORDERING VEGETATED WETLANDS
CVP	CERTIFIED VERNAL POOL
LSCSF	LAND SUBJECT TO COASTAL STORM FLOWAGE
LUW	LAND UNDER WATER
RA	RIVERFRONT AREA
WF	WETLAND FLAG
WL	WETLAND

ISSUED FOR NOTICE OF INTENT

				<div><div>T</div><div>MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SOUTH COAST RAIL DESIGN ENGINEERING AND PM/CM SERVICES CONTRACT NO.</div></div>							
				<div><div><div><div><div></div><div>vhb</div><div>HNTB</div></div><div>99 HIGH STREET BOSTON, MA 02110 (617) 728-7777</div></div><div>MASSACHUSETTS BAY TRANSPORTATION AUTHORITY</div></div><div>APPROVED BY:</div></div>							
				<div><div>PROJECT MANAGER</div><div>Date</div><div>PROJECT MANAGER</div><div>Date</div></div>							
				HORIZ: NONE		DES. BY		DR. BY		CHK. BY	
				VERT: NONE		ADZ		RRD		KJC	
				DATE: 08/04/2017							
										PLAN NO.	
										SHEET GN-303	
										<div></div>	

FILE NAME: SEGMENT3_EV(LG_WAMSUTTA).DWG

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 12 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 12 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 12 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 12 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 12 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 12 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		6' HIGH CHAIN LINK FENCE
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		RIGHT OF WAY
		EASEMENT
		POINT OF SWITCH
		POINT OF SWITCH - MANUAL WITH ELECTRIC LOCK - POS
		POINT OF SWITCH - POWERED - POS
		CENTERLINE OF STREAM
		PERMANENT EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		RAILROAD SIGNAL
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

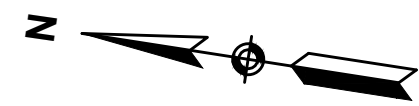
EXISTING	PROPOSED	DESCRIPTION
		STOP LINE
		CROSSWALK
		SOLID WHITE LINE
		SOLID YELLOW LINE
		DOUBLE WHITE LINE
		DOUBLE YELLOW LINE
		RAILROAD GRADE CROSSING

ENVIRONMENTAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		LIMIT OF GRADING
		EROSION CONTROL / LIMIT OF WORK
		100 YR-FLOODPLAIN / BLSF
		RIVERFRONT AREA
		BANK
		BORDERING VEGETATED WETLAND
		100 FT WETLAND BUFFER ZONE
		200 FT RIVERFRONT AREA
		EDGE OF CHANNEL
		PERMANENT BVW / BANK IMPACT
		TEMPORARY BVW / BANK IMPACT
		PERMANENT LSCSF IMPACT
		TEMPORARY LSCSF IMPACT

ISSUED FOR NOTICE OF INTENT


			MASSACHUSETTS BAY TRANSPORTATION AUTHORITY		
			SOUTH COAST RAIL DESIGN ENGINEERING AND PM/CM SERVICES CONTRACT NO.		
			NEW BEDFORD MAIN LINE WAMSUTTA LAYOVER AND TRACK PLANS LEGEND SHEET		
			MASSACHUSETTS BAY TRANSPORTATION AUTHORITY		
APPROVED BY:			DATE		
PROJECT MANAGER			DATE		
HORIZ: NONE			DES. BY		
VERT: NONE			DR. BY		
DATE: 08/04/2017			CHK. BY		
PLAN NO.			ISSUE		
SHEET			GN-304		

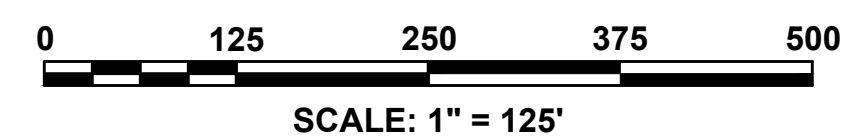


WHALE'S TOOTH STATION

Date _____

ISSUE

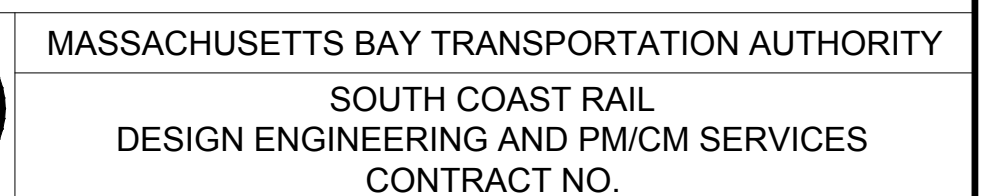


[illegible]



1. AT LOCATIONS WHERE SUFFICIENT SIDE DITCH IS NOT POSSIBLE, USE PERFORATED PIPE UNDERDRAIN (12" MIN. DIA.)
2. IN NEW CONSTRUCTION, WHEN SUBGRADE CONDITIONS WARRANT THE USE OF GEOTEXTILE FABRIC, PLACE THE FABRIC BENEATH THE SUBBALLAST.
3. WHENEVER THE OUTSIDE TRACK HAS THE GREATER SUPERELEVATION, INCREASE THE TRACK CENTERS $3\frac{1}{2}"$ PER 1° OF SUPERELEVATION DIFFERENCE.

ISSUED FOR NOTICE OF INTENT



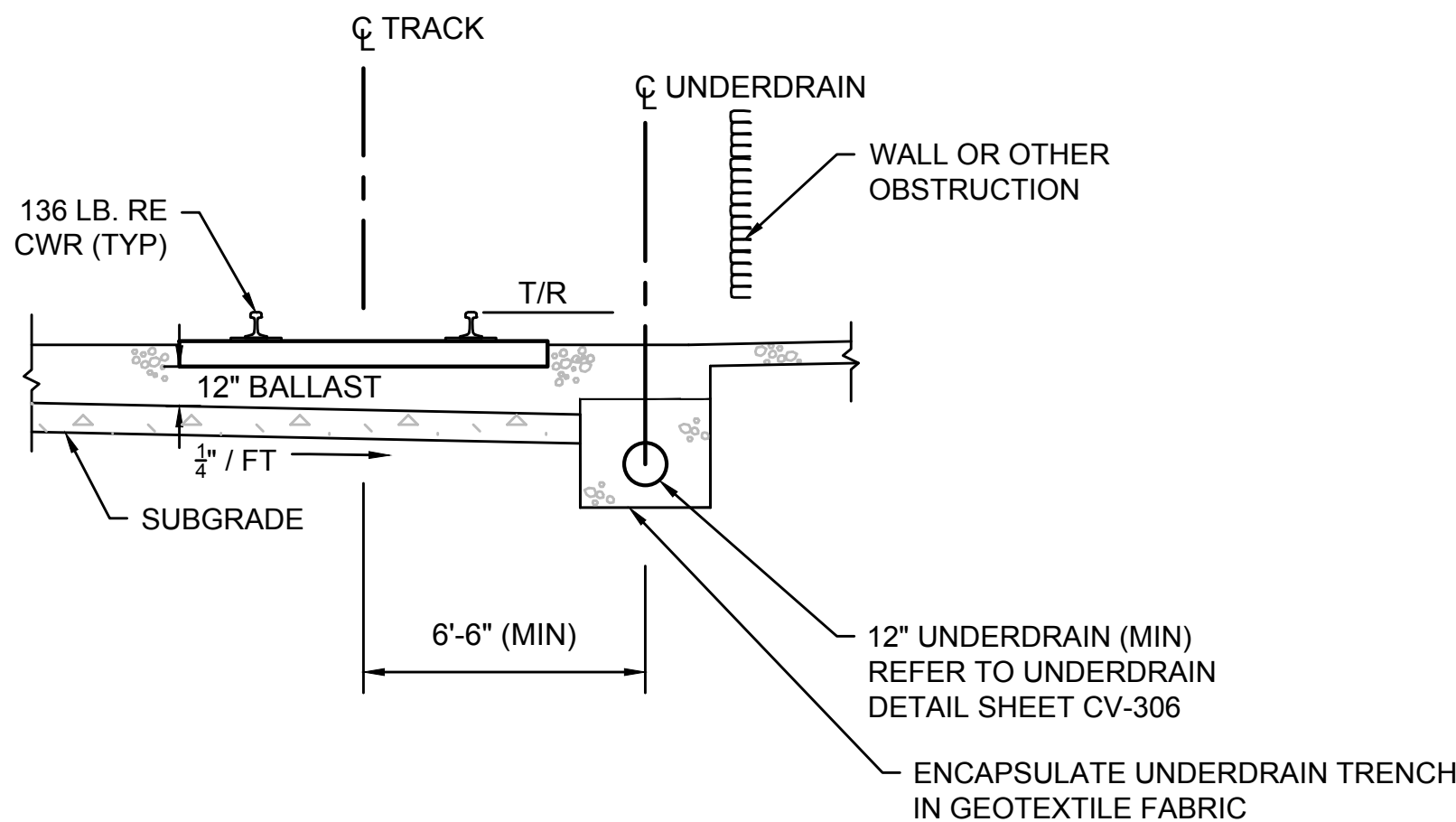
**NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLANS
TYPICAL SECTIONS 1**

[illegible]

FILE NAME: SEGMENT3_EV(TYP_WAMSUTTA).DWG

NOTES:

- 1 AT LOCATIONS WHERE SUFFICIENT SIDE DITCH IS NOT POSSIBLE, USE PERFORATED PIPE UNDERDRAIN (12" MIN. DIA.)
- 2 IN NEW CONSTRUCTION, WHEN SUBGRADE CONDITIONS WARRANT THE USE OF GEOTEXTILE FABRIC, PLACE THE FABRIC BENEATH THE SUBBALLAST.
- 3 WHENEVER THE OUTSIDE TRACK HAS THE GREATER SUPERELEVATION, INCREASE THE TRACK CENTERS 3 1/2" PER 1" OF SUPERELEVATION DIFFERENCE.

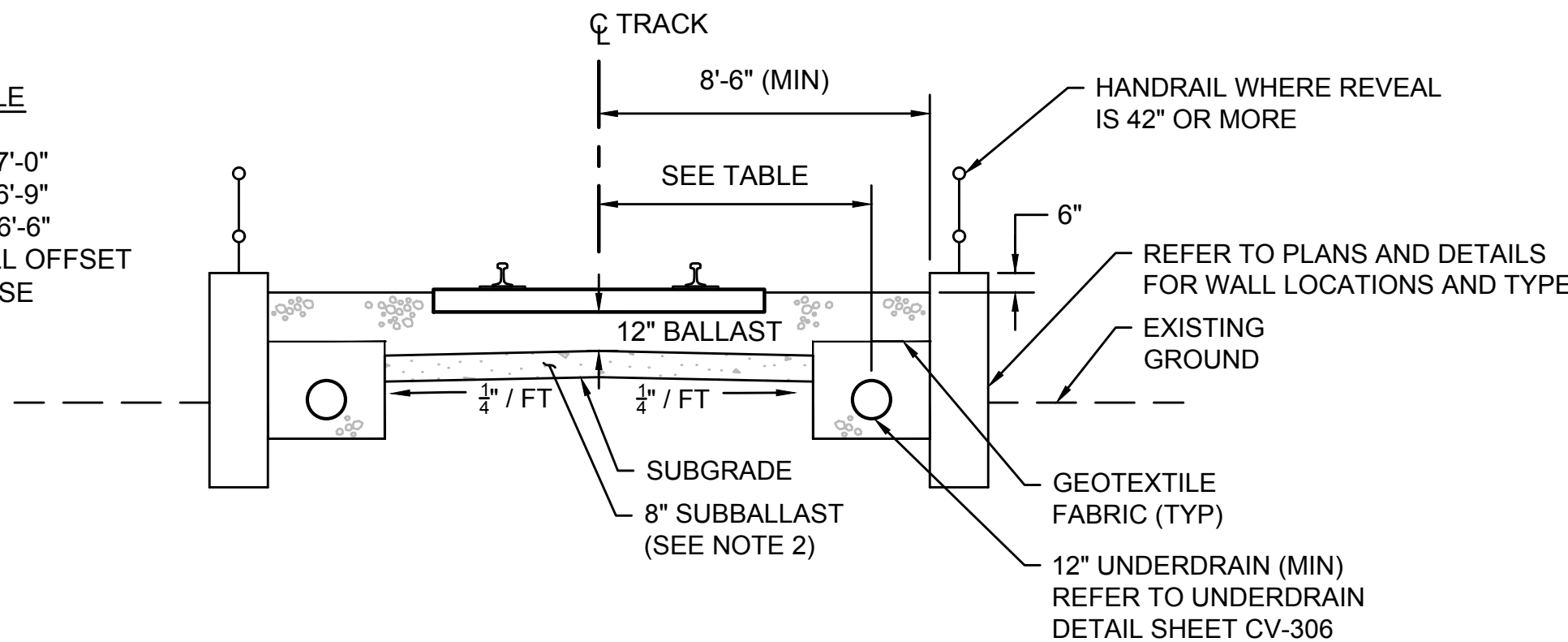


SECTION WHEN SIDE DITCH IS NOT POSSIBLE

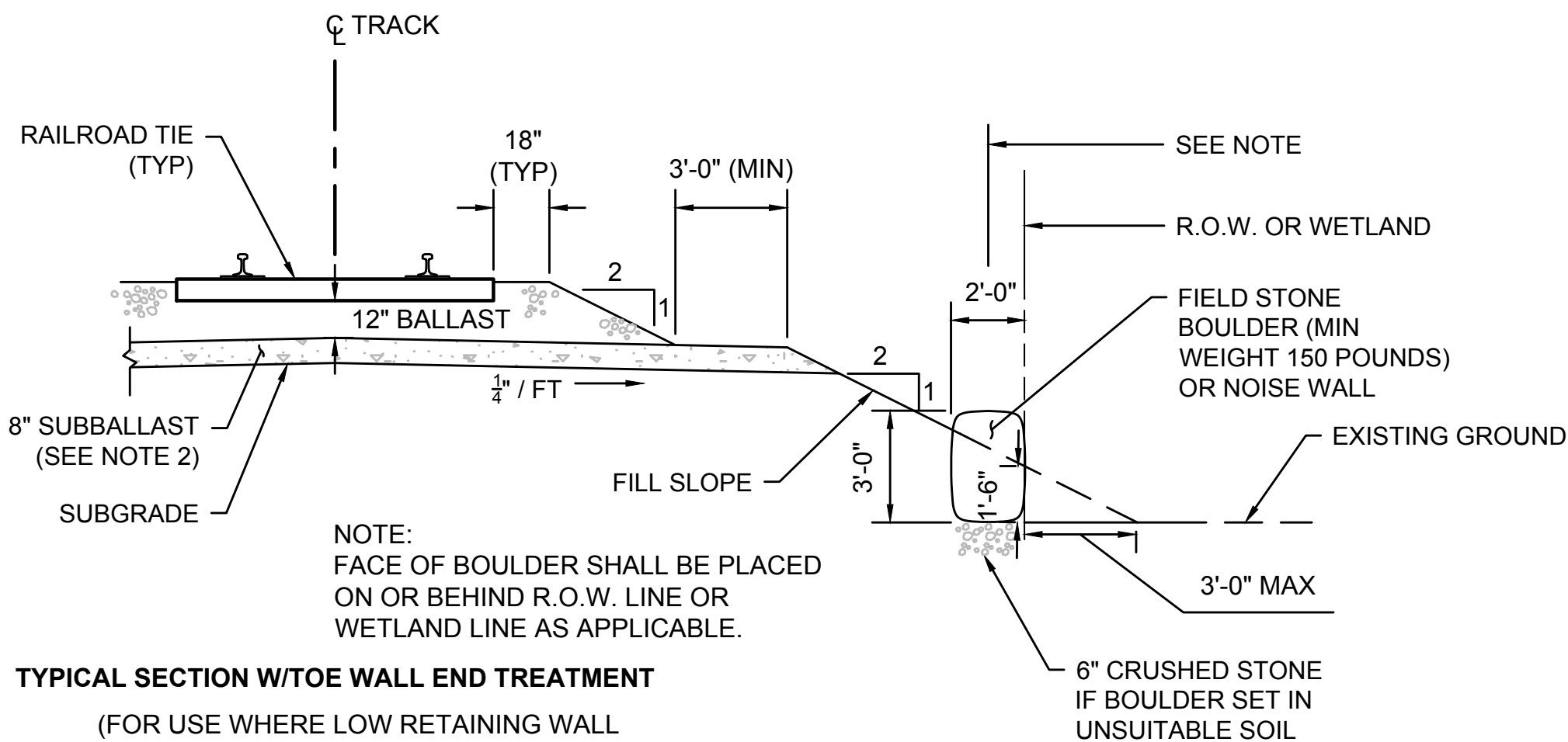
TABLE

12" PIPE	7'-0"
18" PIPE	6'-9"
24" PIPE	6'-6"

OVER 24" WALL OFFSET MUST INCREASE

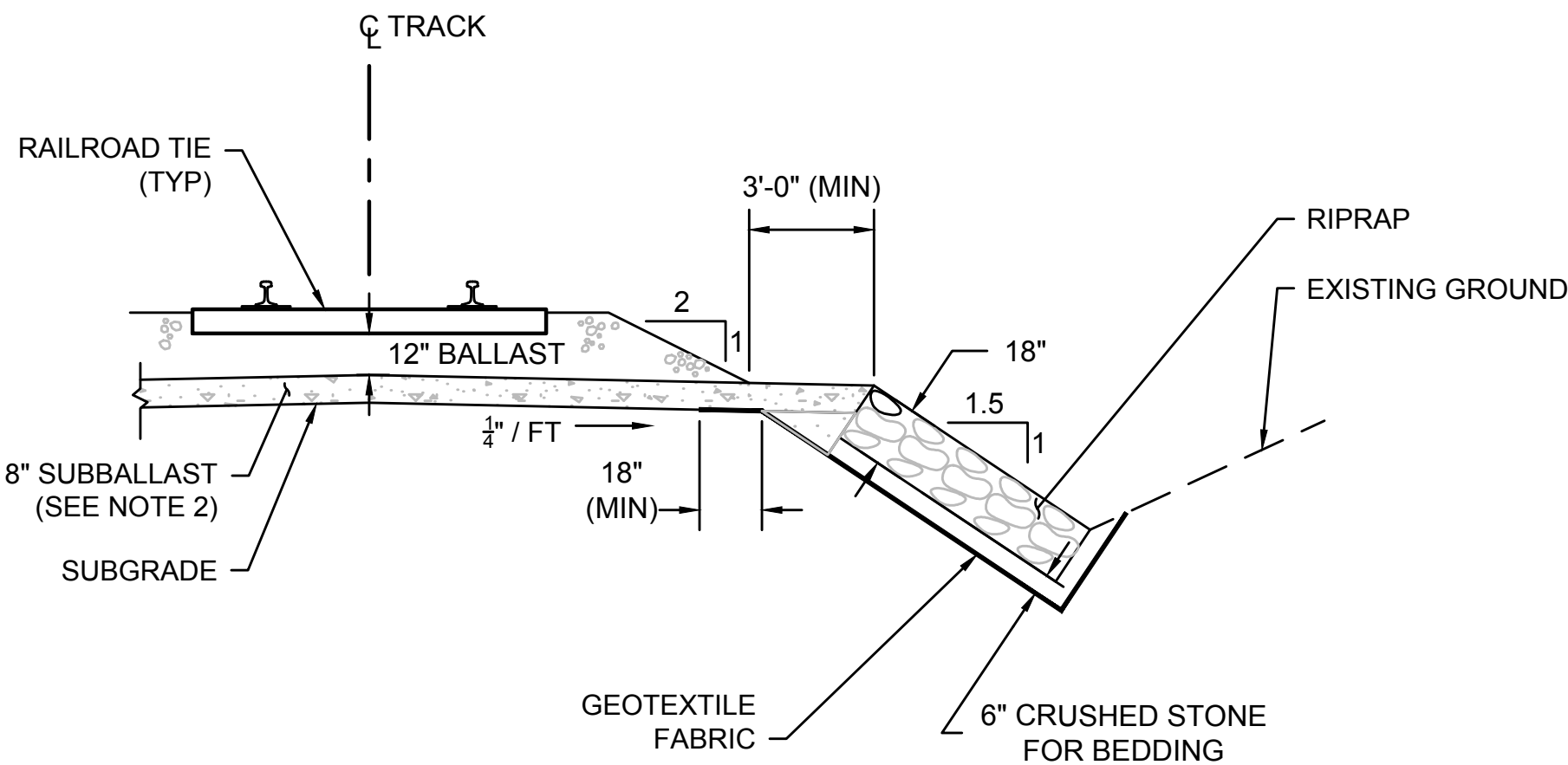


TYPICAL SECTION FOR TRACK WITH RETAINING WALLS



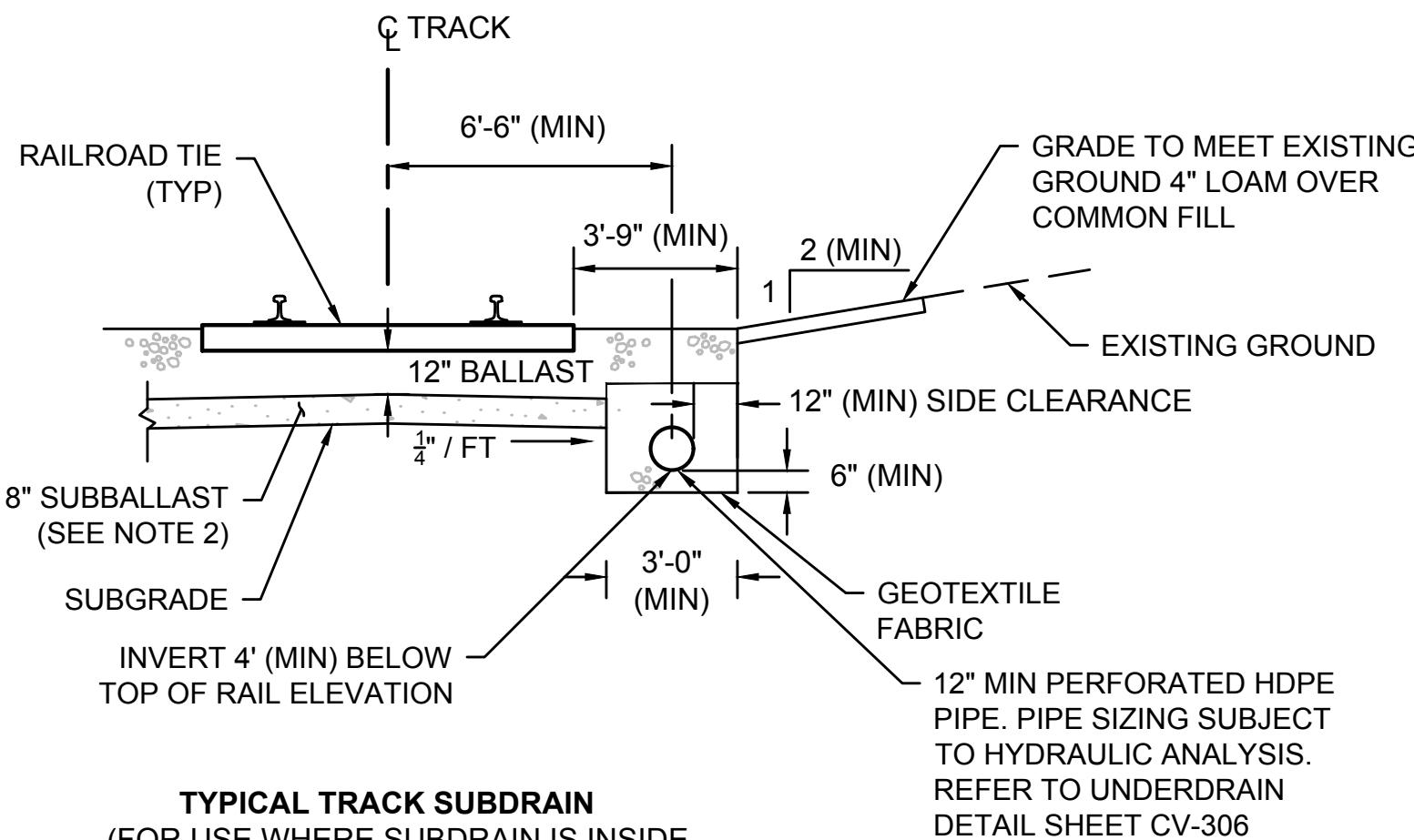
TYPICAL SECTION W/TOE WALL END TREATMENT

(FOR USE WHERE LOW RETAINING WALL IS NEEDED TO AVOID R.O.W. OR ENV. IMPACT AND 1.5:1 SLOPE DOES NOT AVOID IMPACT).



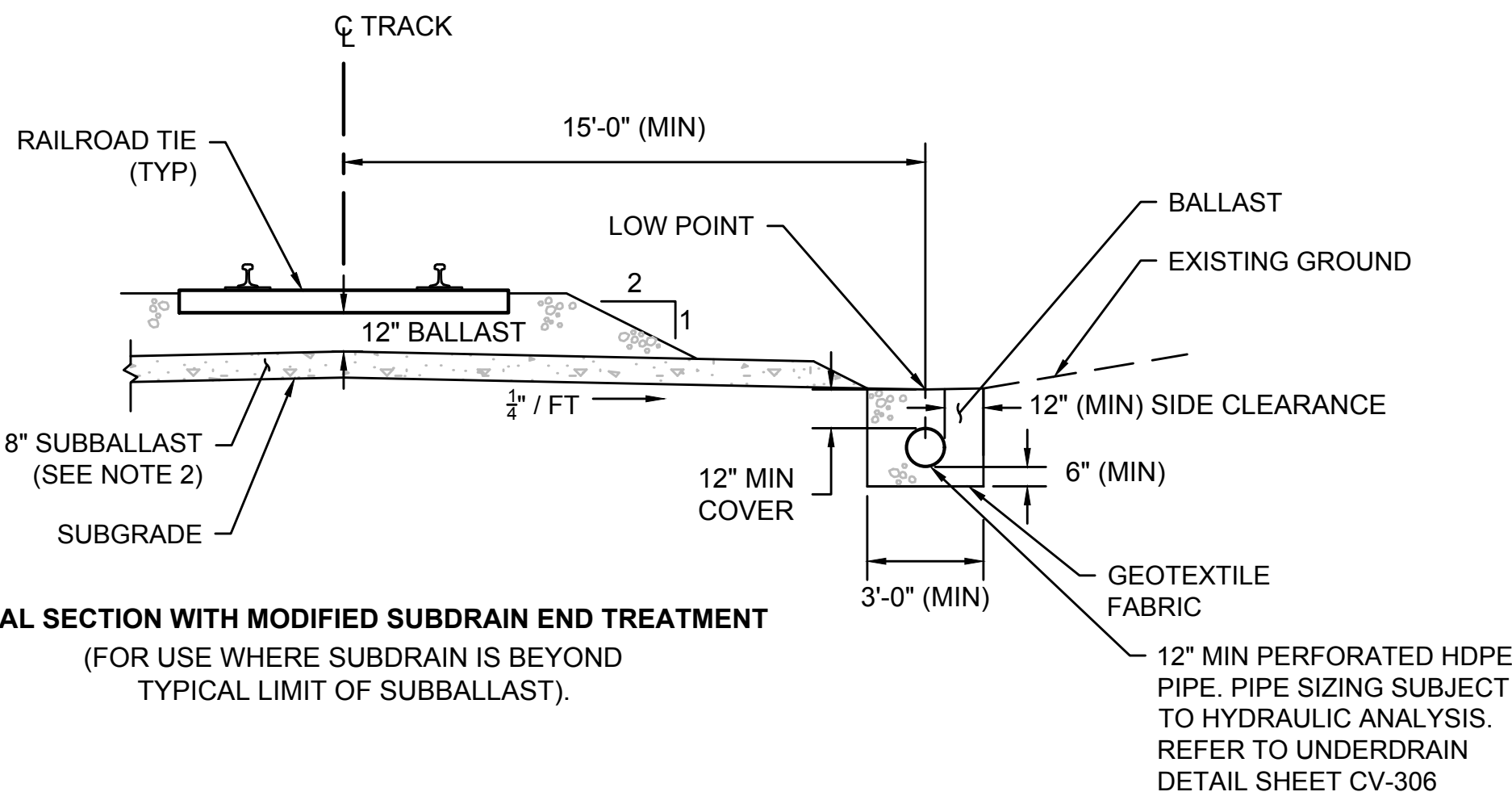
TYPICAL SECTION WITH RIPRAP END TREATMENT

(FOR USE WHERE SIDE SLOPE IS 1.5:1 TO AVOID R.O.W. OR ENV. IMPACT).



TYPICAL TRACK SUBDRAIN

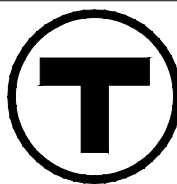
(FOR USE WHERE SUBDRAIN IS INSIDE TYPICAL LIMIT OF SUBBALLAST).



TYPICAL SECTION WITH MODIFIED SUBDRAIN END TREATMENT


(FOR USE WHERE SUBDRAIN IS BEYOND TYPICAL LIMIT OF SUBBALLAST).

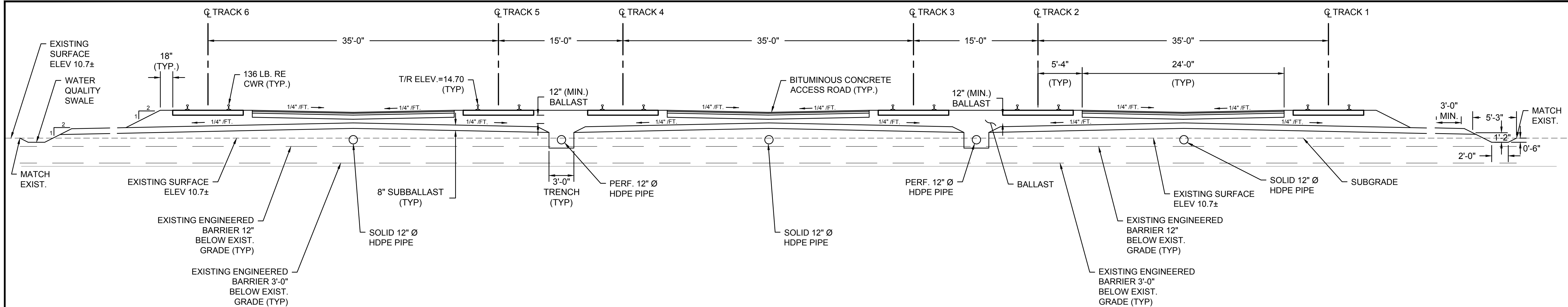
ISSUED FOR NOTICE OF INTENT



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLANS
TYPICAL SECTIONS 2

									99 HIGH STREET BOSTON, MA 02110 (617) 728-7777	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY			
	11-28-17	RTC CON. COMM.	11/20/17	RG	HF	RC							
	11-15-17	RTC CON. COMM.	11/08/17	SK	HF	RC							
	11-3-17	RTC CON. COMM.	10/20/17	RG	HF	RC							
ISSUE	DATE	DESCRIPTION			BY	CHKD.	APP.	PROJECT MANAGER		Date	PROJECT MANAGER	Date	
								HORIZ: NONE	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
								VERT: NONE	ADZ	RRD	KJC		
								DATE: 08/04/2017				SHEET	CV-303



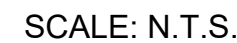
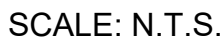
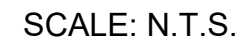
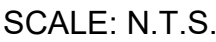
TYPICAL SECTION THROUGH LAYOVER YARD (LOOKING NORTH)

FOR LIMITS OF ENGINEERED BARRIERS
REFER TO LAYOUT PLANS LO-301 TO LO-302

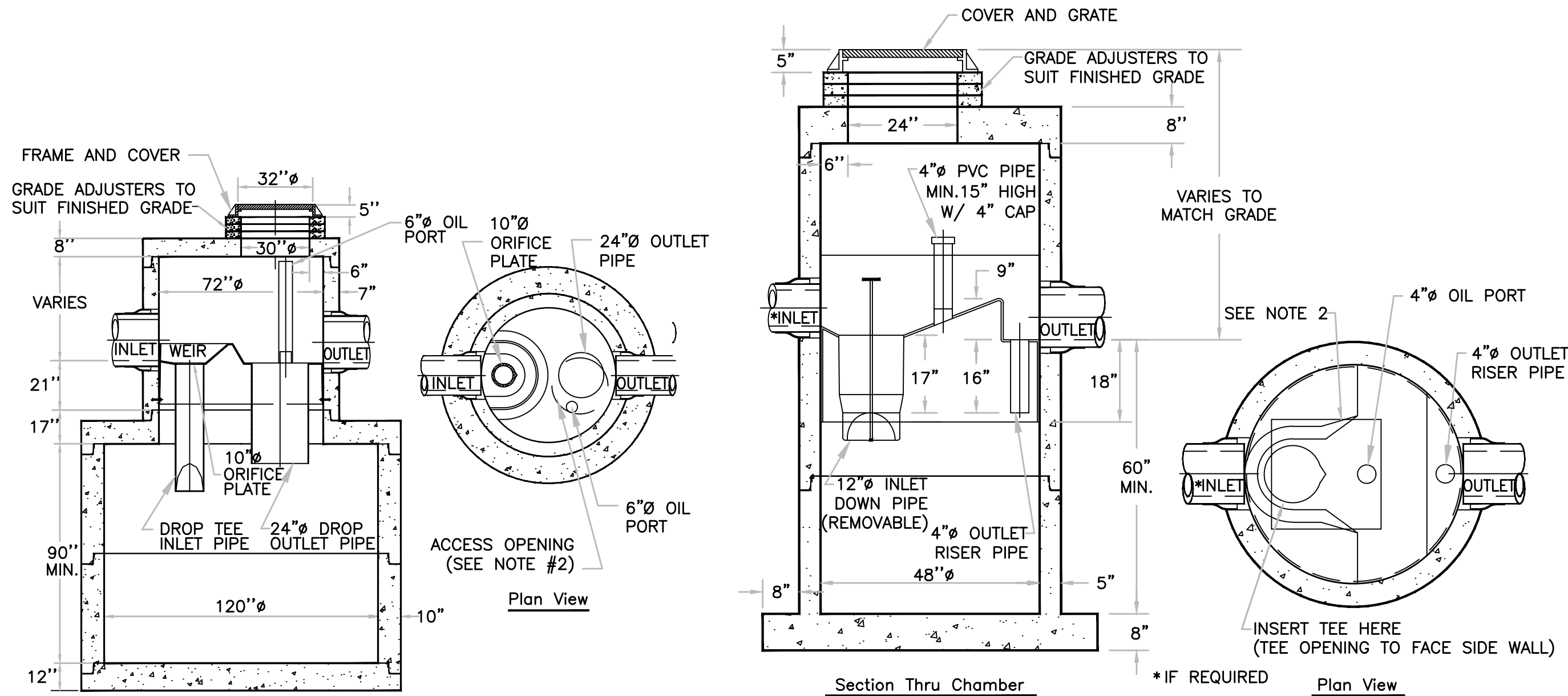
TYPICAL SECTION FOR WAMSUTTA STREET

TYPICAL SECTION AT MSE WALL

WALL NOTES

[illegible]

FILE NAME: SEGMENT3_SD(OET_WAMSUTTA).DWG



Notes:

1. THE USE OF FLEXIBLE CONNECTION IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL PORT.
3. APPROVED EQUIVALENT MUST PROVIDE 80% TSS REMOVAL FOR 2.9 ACRES OF IMPERVIOUS AREA.

Water Quality Unit 1 (WQU)

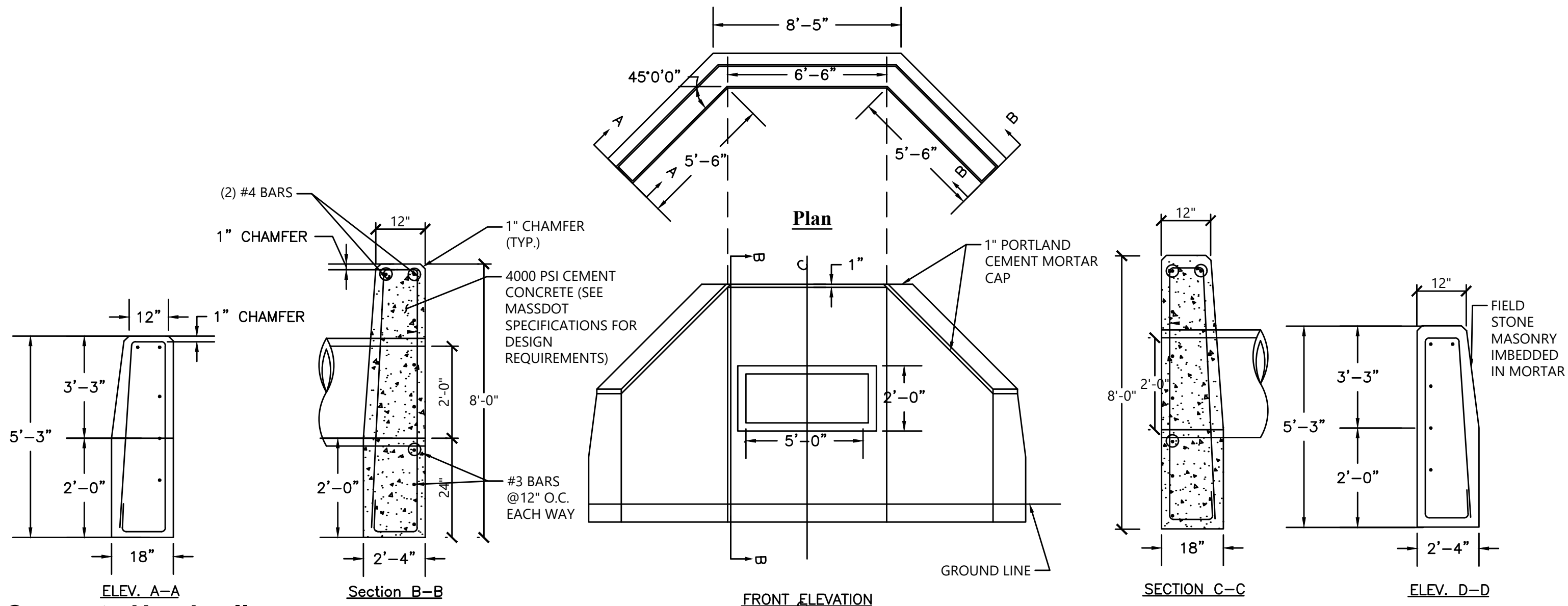
SCALE: N.T.S.

Notes:

1. THE USE OF FLEXIBLE CONNECTION IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE INLET DROP PIPE AND THE OIL PORT.
3. APPROVED EQUIVALENT MUST PROVIDE 80% TSS REMOVAL FOR 0.32 ACRES OF IMPERVIOUS AREA.

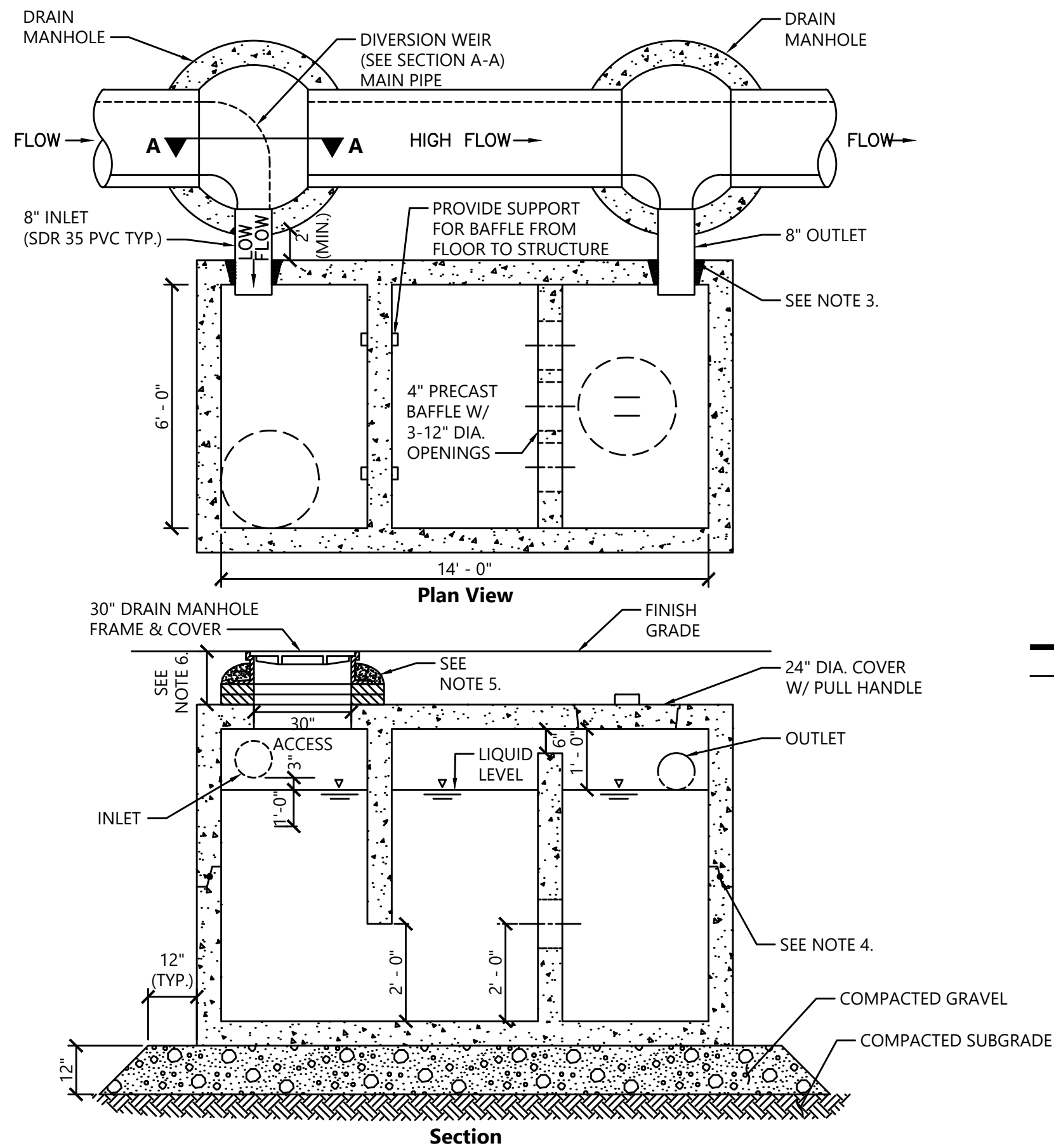
Water Quality Unit 3 (WQU)

SCALE: N.T.S.



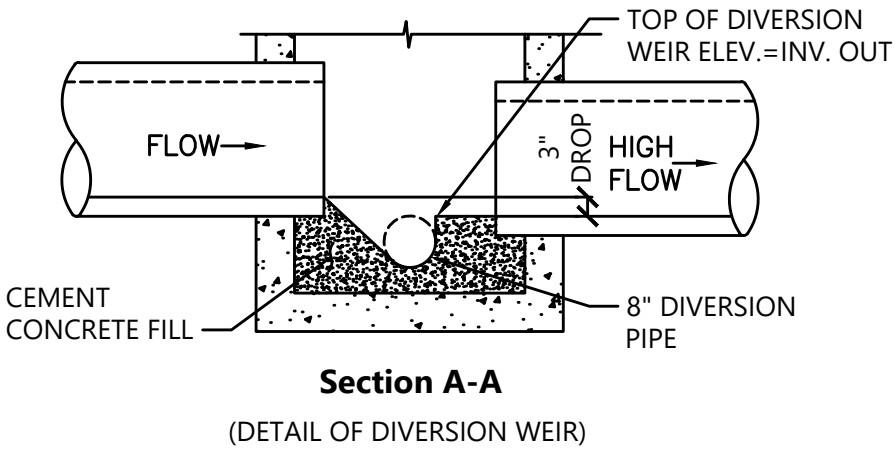
Concrete Headwall

SCALE: N.T.S.



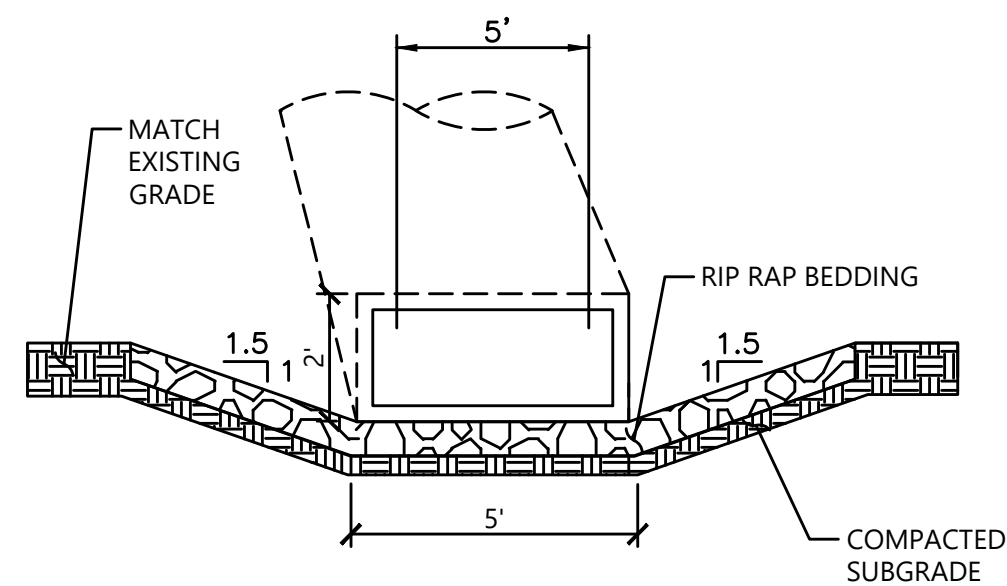
Water Quality Inlet Tank

SCALE: N.T.S.



	OVERALL	FIRST CHAMBER
WQI 1	3,000 GALLONS	1,500 GALLONS
WQI 2	3,000 GALLONS	1,600 GALLONS
WQI 3	4,000 GALLONS	2,800 GALLONS

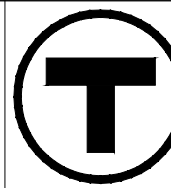
- Notes:
1. PARTICLE SEPARATOR SHALL BE A PRECAST TANK WITH PRECAST BAFFLES AS SHOWN.
 2. STRUCTURES SHALL BE DESIGNED FOR HS-20 LOADING.
 3. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
 4. JOINT SEALANT BETWEEN ALL SECTIONS SHALL BE PREFORMED BUTYL RUBBER
 5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM)
 6. BARREL BLOCK AND MORTAR SHALL BE USED TO BRING MANHOLE FRAME AND COVER TO FINISHED GRADE WHEN DEPTH TO TOP OF STRUCTURE EXCEEDS 24 INCHES.



Channel Outlet Section

SCALE: N.T.S.

ISSUED FOR NOTICE OF INTENT

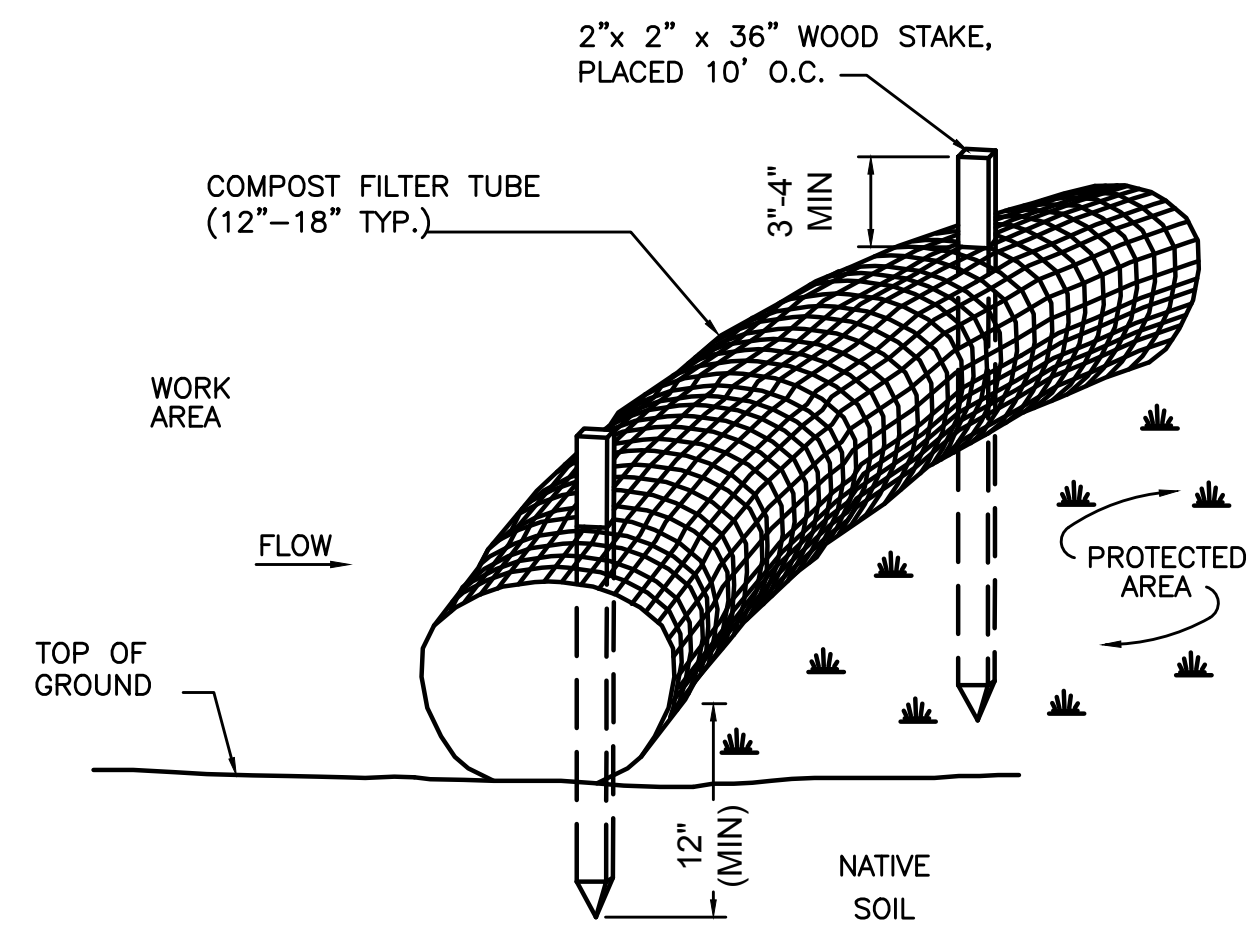


MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

**NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLAN
DETAILS 2**

									<div><div>99 HIGH STREET BOSTON, MA 02110 (617) 728-7777</div></div>			MASSACHUSETTS BAY TRANSPORTATION AUTHORITY				
11-28-17			RTC CON. COMM. 11/20/17			RG	HF	RC								
11-15-17			RTC CON. COMM. 11/06/17			RG	HF	RC								
11-3-17			RTC CON. COMM. 10/20/17			RG	HF	RC								
ISSUE	DATE	DESCRIPTION			BY	CHKD.	APP.	PROJECT MANAGER			Date	PROJECT MANAGER			Date	
								HORIZ: NONE		DES. BY	DR. BY	CHK. BY	PLAN NO.			ISSUE
								VERT: NONE		ADZ	RRD	KJC				
								DATE: 08/04/2017								
												SHEET CV-306				

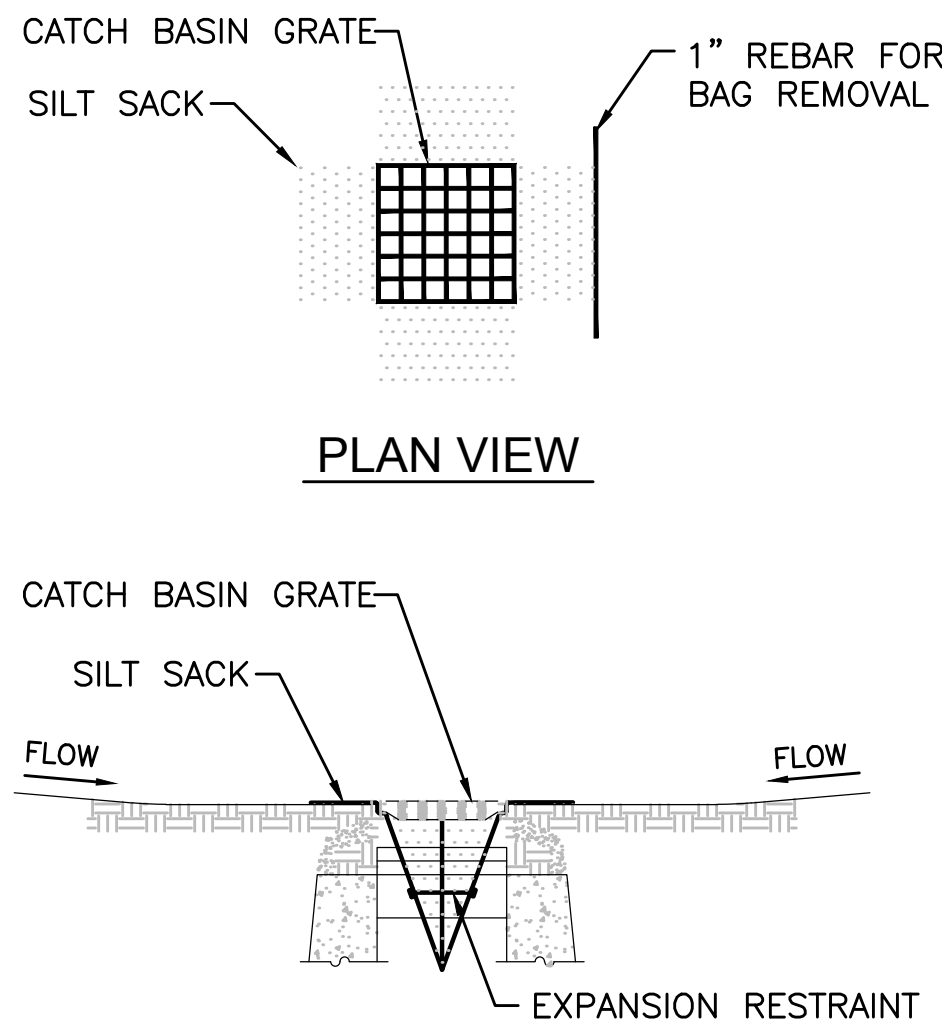
FILE NAME: SEGMENT3_SD(OET_WAMSUTTA).DWG



- NOTES:
1. FILTER TUBE SHALL BE FILLED BY BLOWN IN ORGANIC COMPOST AND PLACED AS ILLUSTRATED ON THE PROJECT PLANS.
 2. COMPOST FILTER TUBES SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIRED OR REPLACED AS NEEDED.
 3. AT COMPLETION OF PROJECT, COMPOST FILTER TUBES SHALL BE CUT OPEN AND COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
 4. THE EMPTY FILTER TUBE FABRIC SHALL BE COLLECTED AND DISPOSED OF PROPERLY.

Linear Sedimentation and Erosion Control

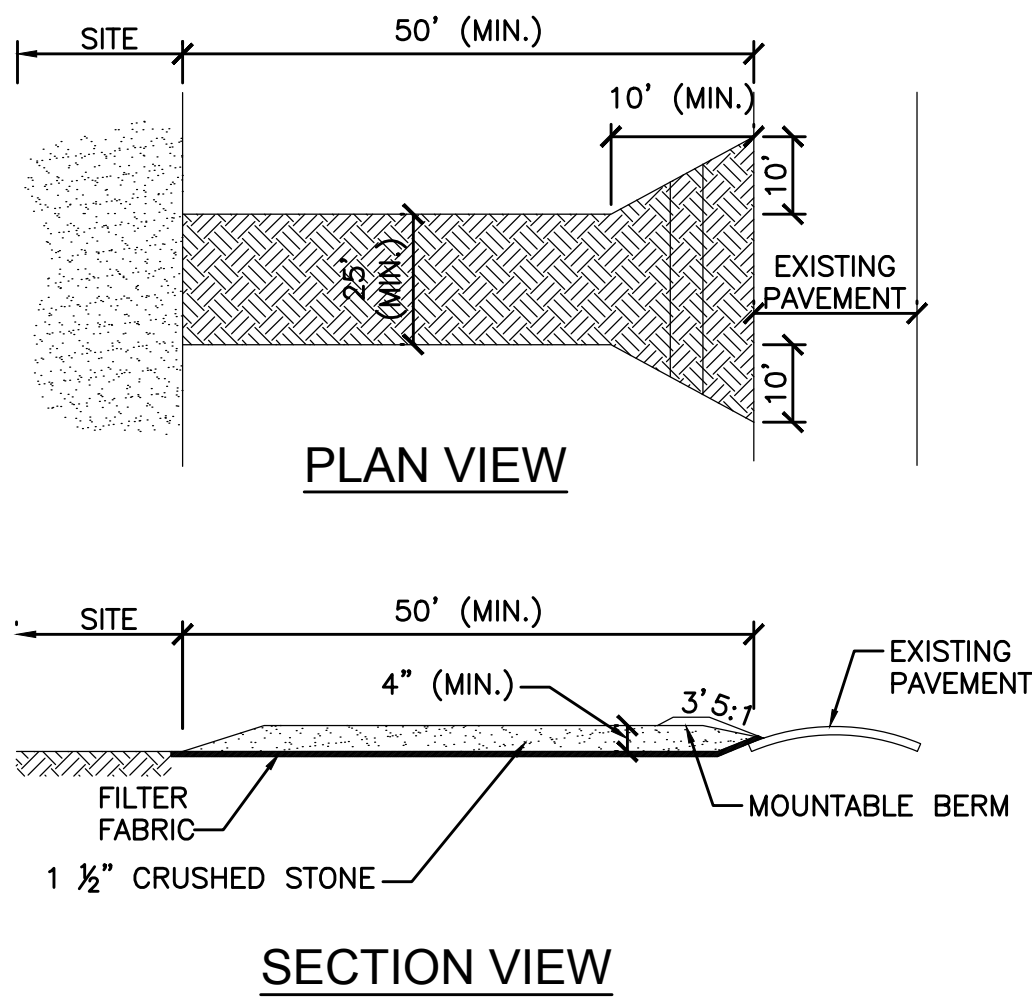
SCALE: N.T.S.



- NOTES:
1. INSTALL SILT SACK IN EXISTING CATCH BASINS, BEFORE COMMENCING WORK, AND IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION OF STRUCTURE. MAINTAIN UNTIL BINDER COURSE PAVING IS COMPLETE OR A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
 2. GRATE TO BE PLACED OVER SILT SACK.
 3. SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED

Inlet Protection - Silt Sack In Catch Basin

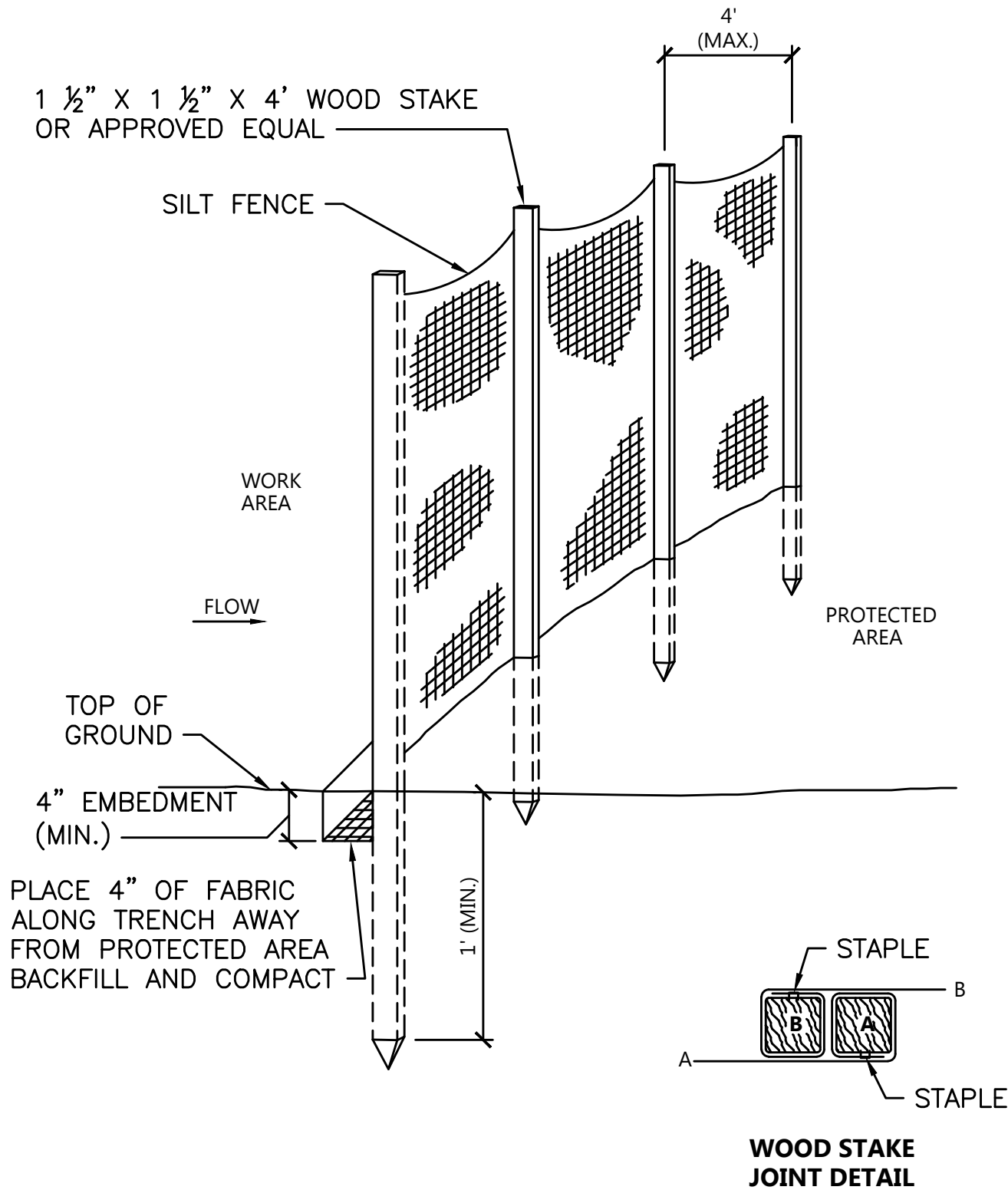
SCALE: N.T.S.



- NOTES:
1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
 3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

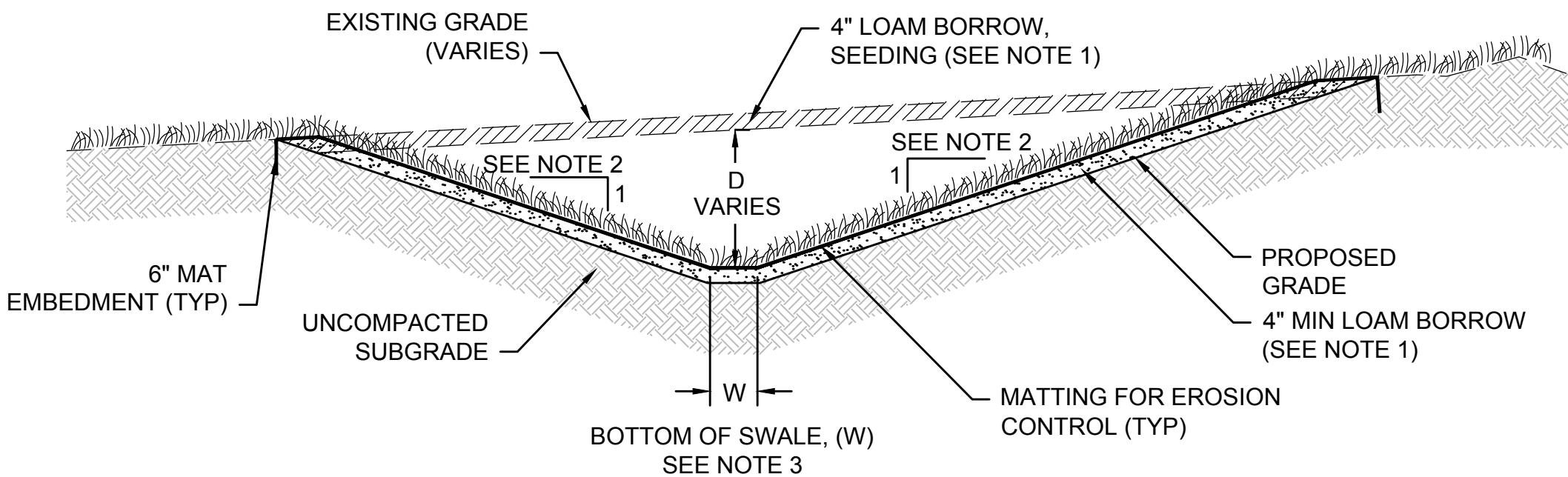
Stabilized Construction Exit

SCALE: N.T.S.



Silt Fence Barrier

SCALE: N.T.S.



- NOTES:
1. PLACE LOAM BORROW TO A MINIMUM DEPTH OF 4". SEEDED WITH ITEM 765.457 INFILTRATION BASIN BOTTOM/SWALE MIX.
 2. SIDE SLOPES TO MATCH PROPOSED OR EXISTING GRADE AS SHOWN ON PLANS BUT SHOULD NOT EXCEED 4:1.
 3. CONTRACTOR TO MATCH EXISTING SWALE GEOMETRY WHERE REMOVING CONCRETE SWALE. BOTTOM SWALE WIDTH (W), LABELED ON PLANS, IS APPROXIMATE AND VARIES FROM 3' TO 7'.

Grass Channel Section

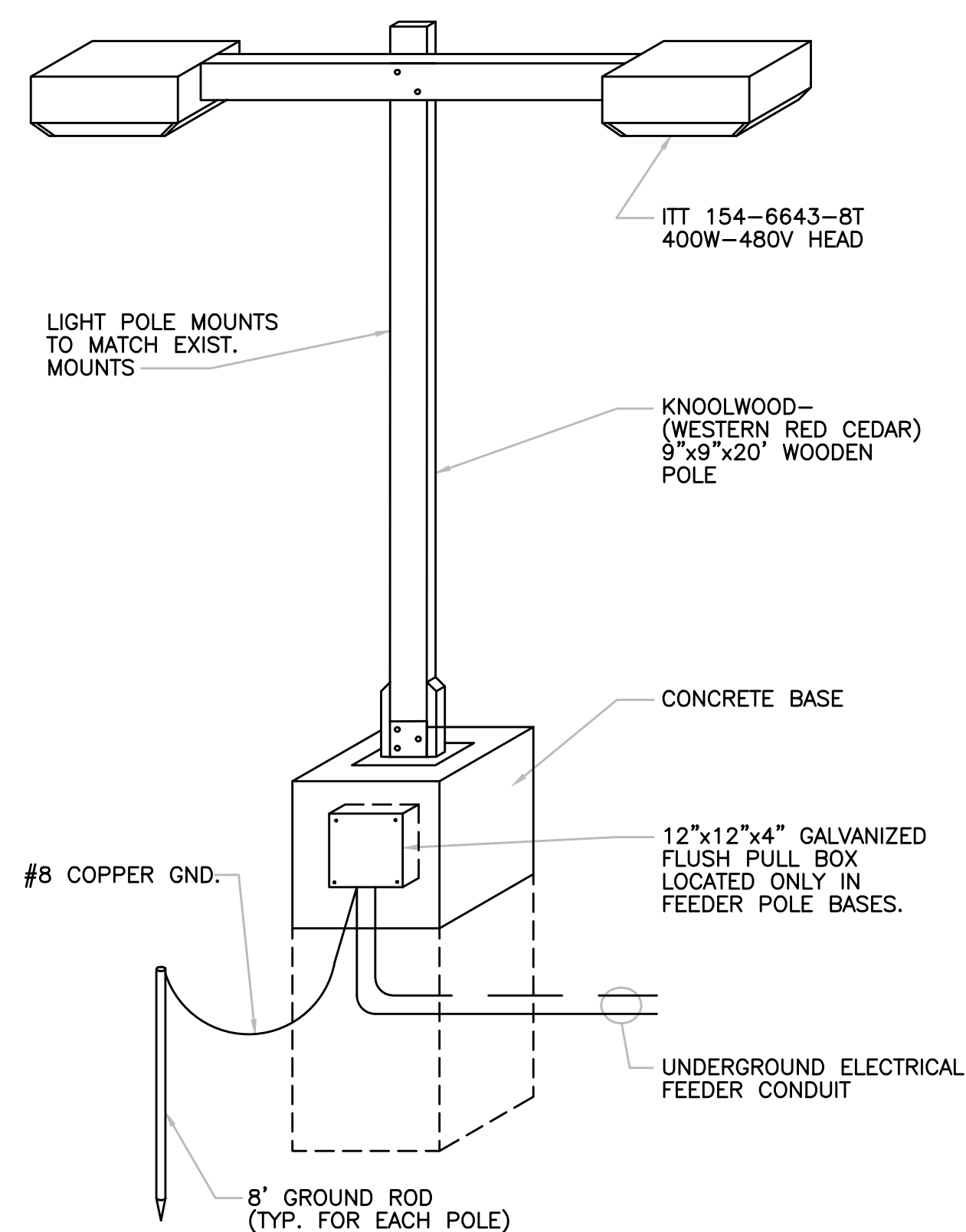
SCALE: N.T.S.

ISSUED FOR NOTICE OF INTENT									
					MASSACHUSETTS BAY TRANSPORTATION AUTHORITY				
					SOUTH COAST RAIL DESIGN ENGINEERING AND PM/CM SERVICES CONTRACT NO.				
					NEW BEDFORD MAIN LINE WAMSUTTA LAYOVER AND TRACK PLAN DETAILS 3				
					MASSACHUSETTS BAY TRANSPORTATION AUTHORITY				
APPROVED BY:					APPROVED BY:				
PROJECT MANAGER					PROJECT MANAGER				
DATE					DATE				
HORIZ: NONE					HORIZ: NONE				
VERT: NONE					VERT: NONE				
DATE: 08/04/2017					DATE: 08/04/2017				

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.
11-28-17	11-28-17	RTC CON. COMM. 11/20/17	RG	HF	RC
11-15-17	11-15-17	RTC CON. COMM. 11/08/17	RG	HF	RC
11-3-17	11-3-17	RTC CON. COMM. 10/20/17	RG	HF	RC

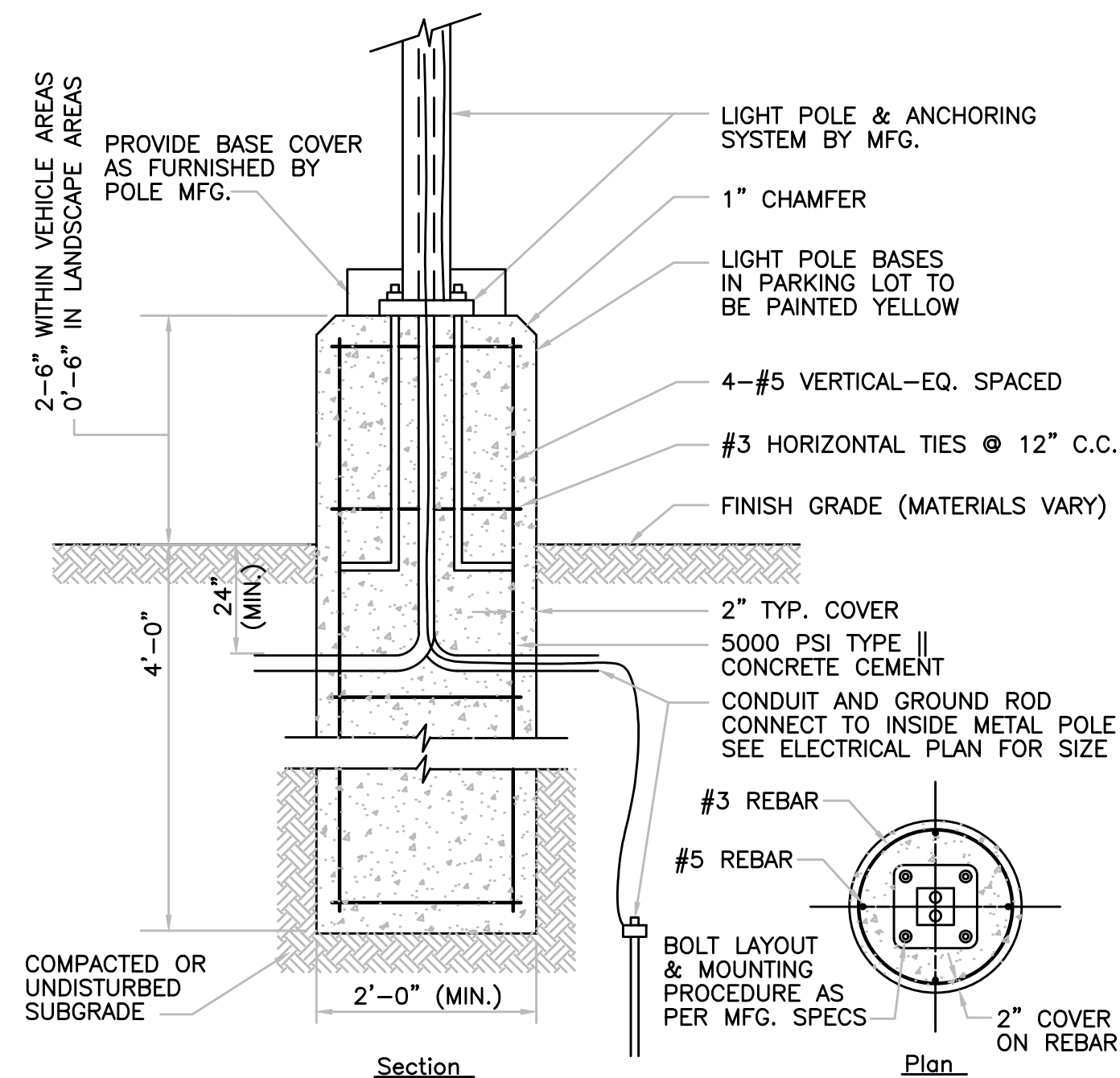
DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

PLAN NO.	ISSUE
CV-307	



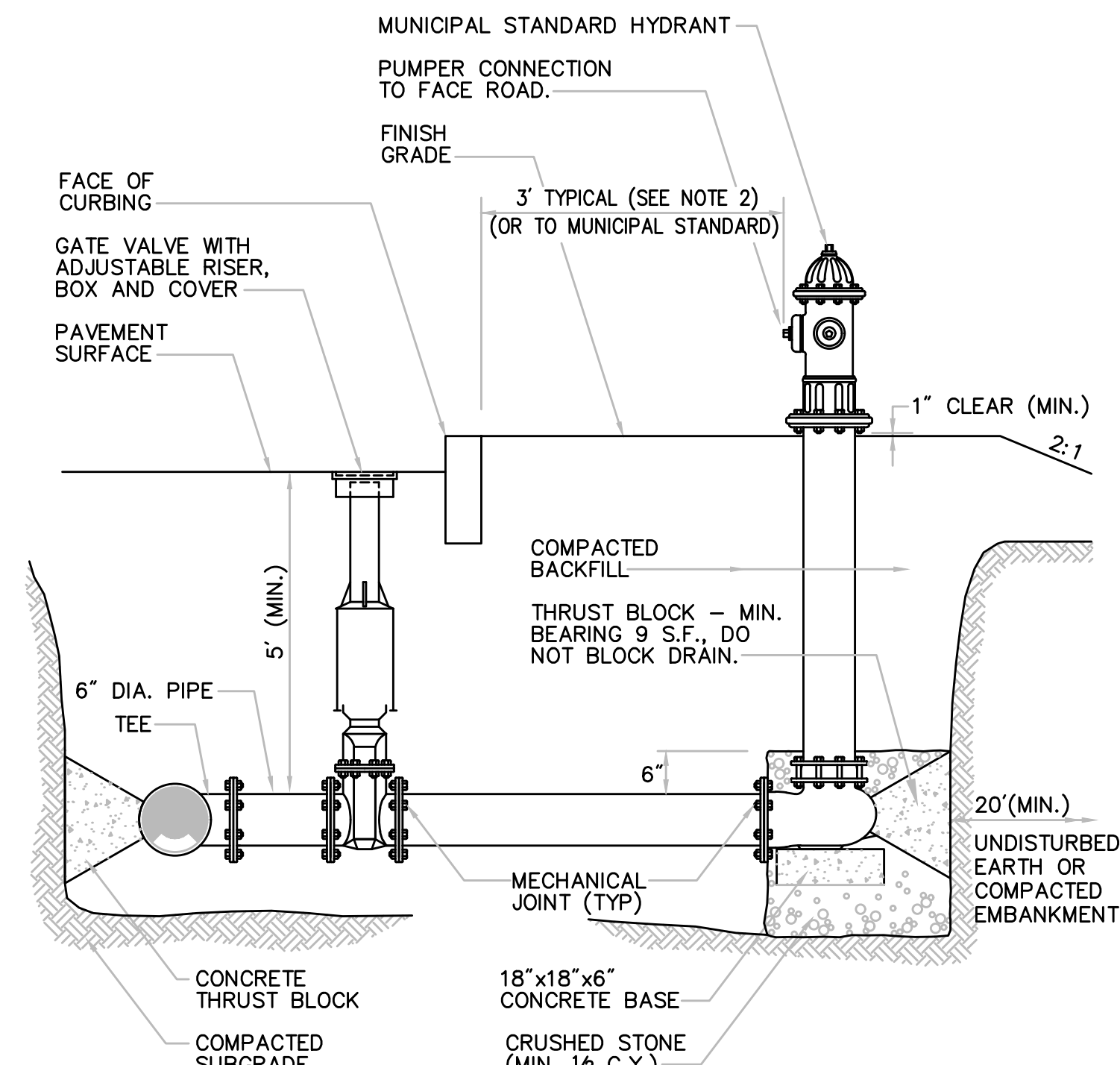
Light Pole

SCALE: N.T.S.



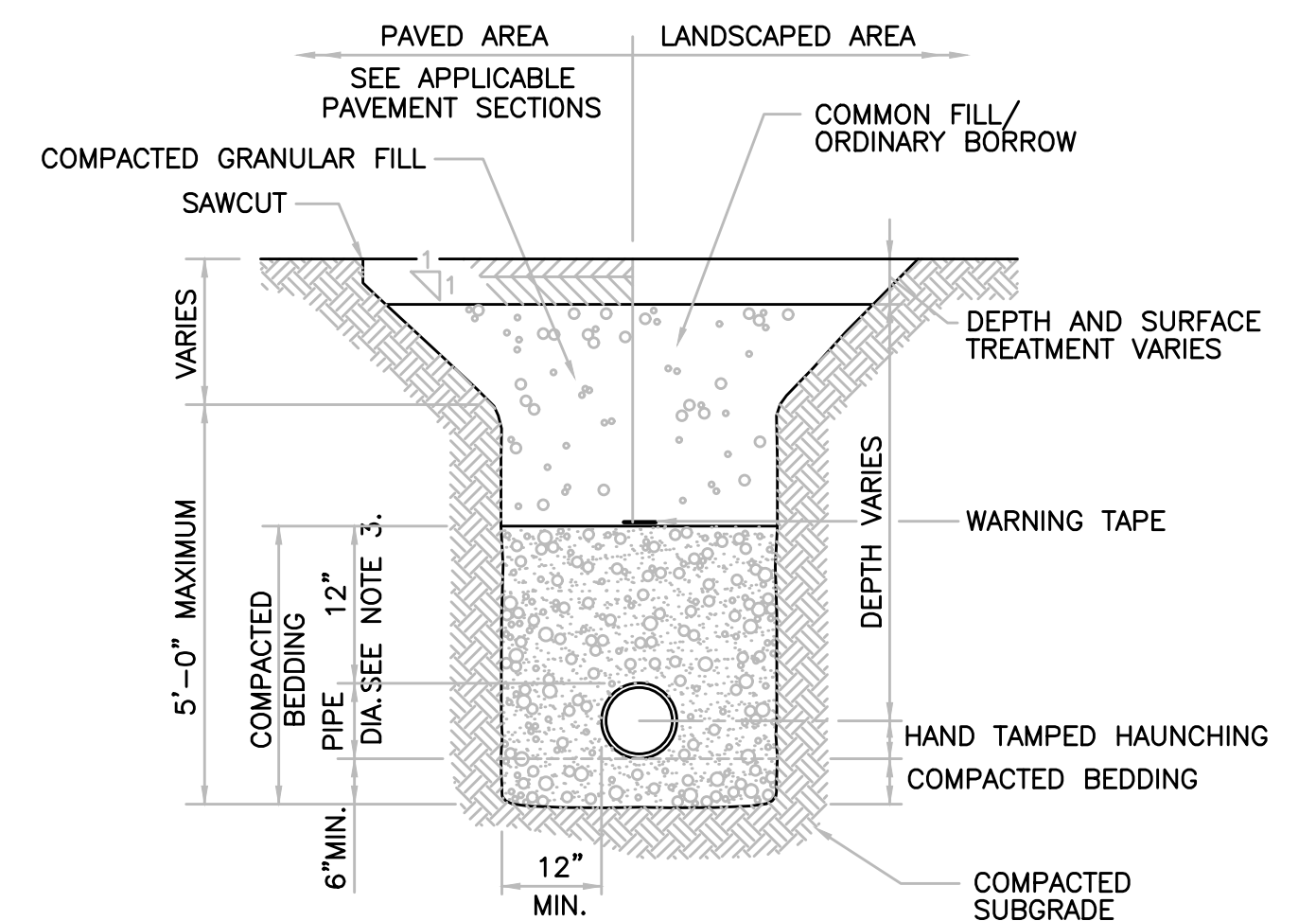
Light Pole Foundation Detail (Up to 15' Pole)

SCALE: N.T.S.



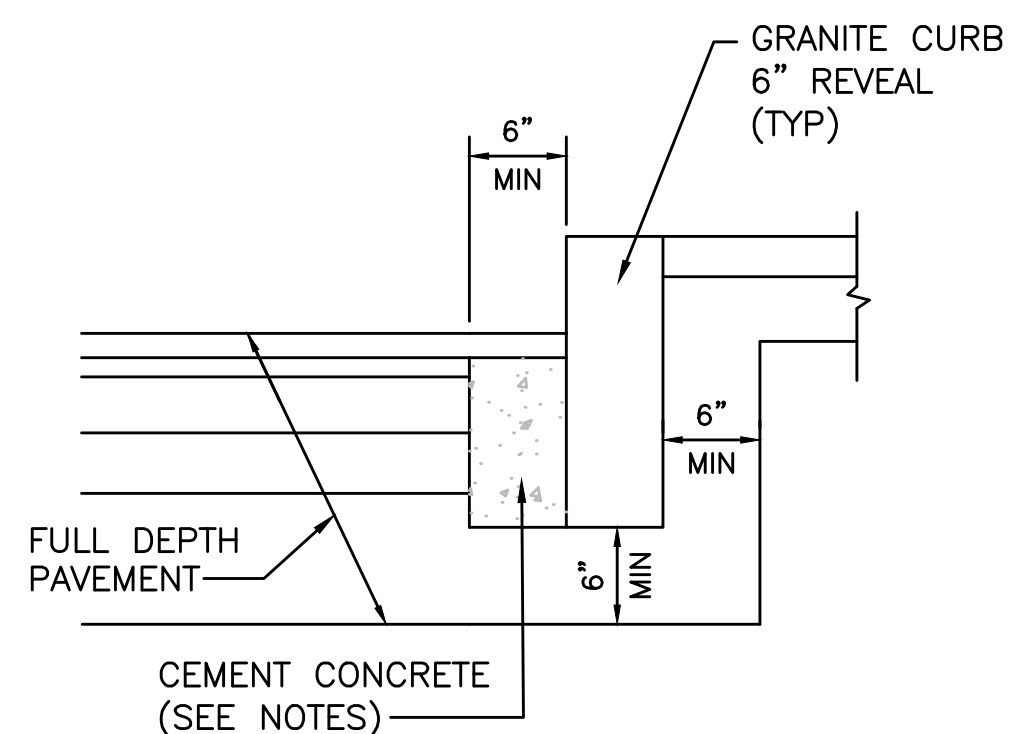
Hydrant Construction

SCALE: N.T.S.



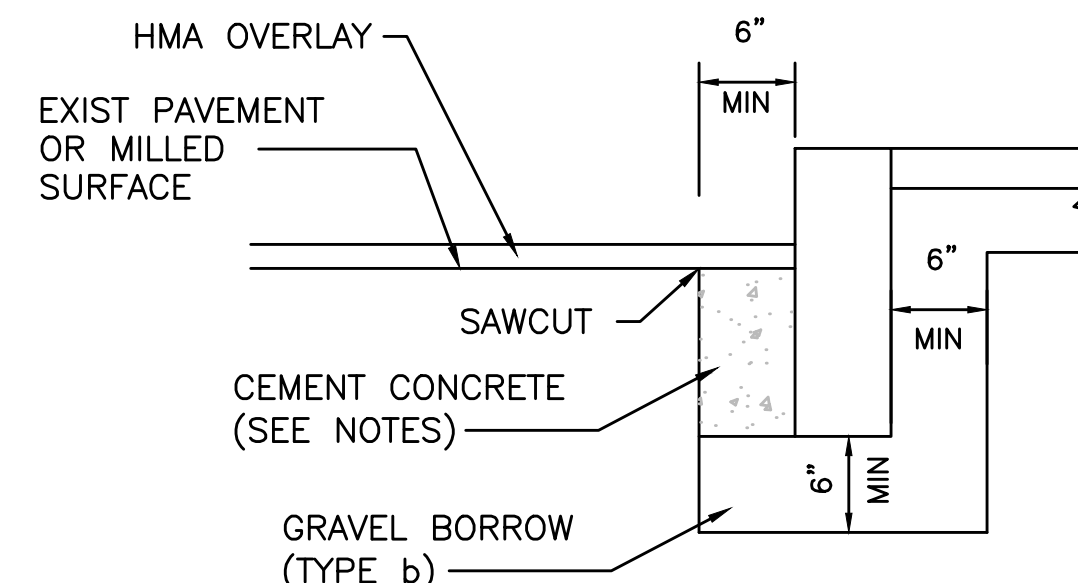
Utility Trench

SCALE: N.T.S.



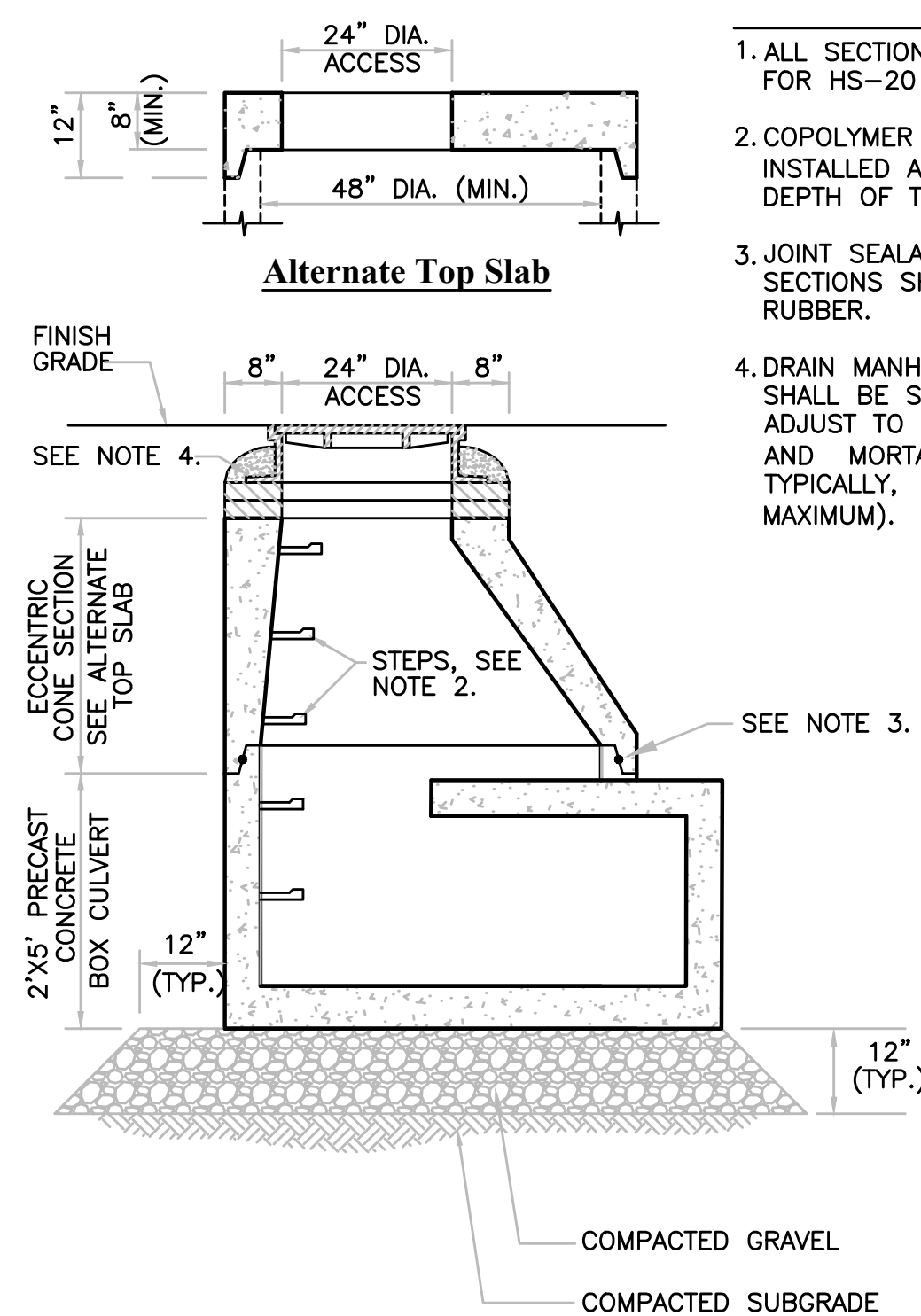
Granite Curb in Full Depth Pavement

SCALE: N.T.S.



Granite Curb in Existing Pavement - with Overlay

SCALE: N.T.S.



Inspection Portal (IP)

SCALE: N.T.S.

Notes:

SHALL BE DESIGNED
LOADING.

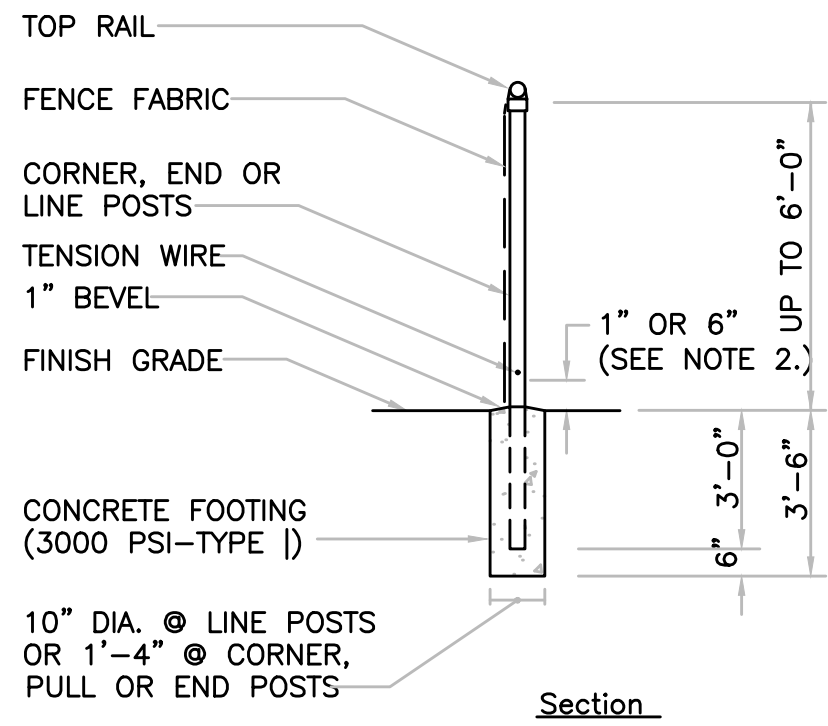
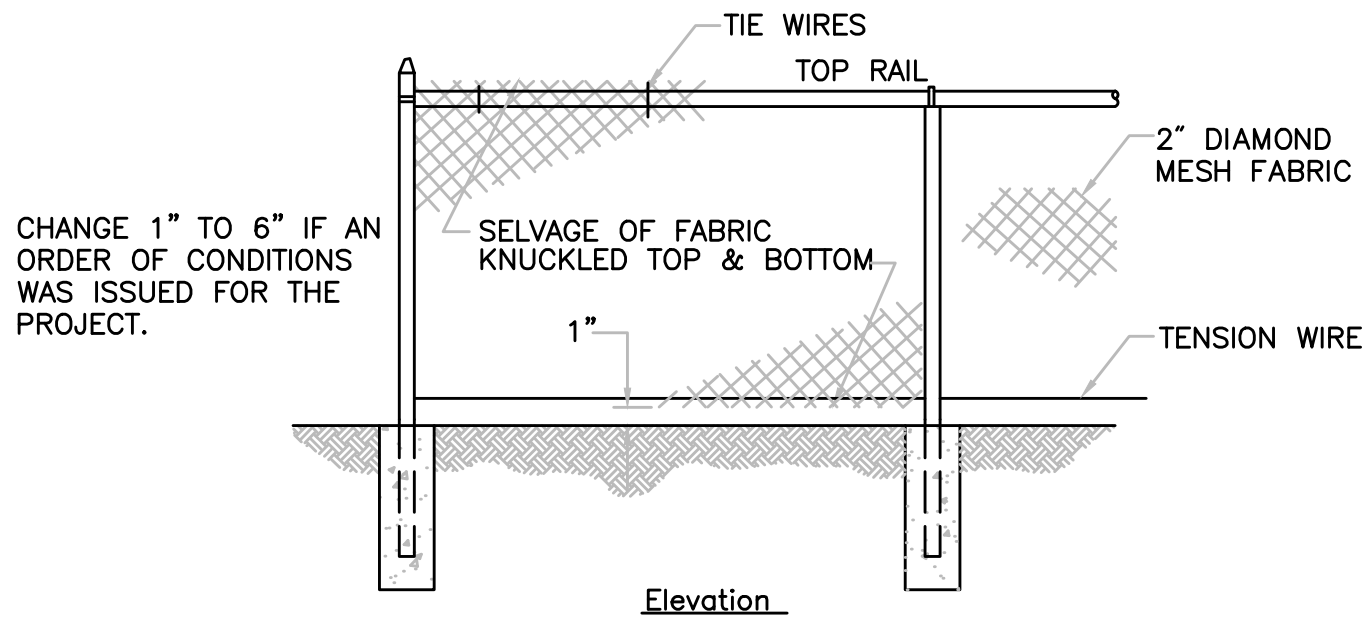
WHOLE STEPS SHALL BE
2" O.C. FOR THE FULL
STRUCTURE.

BETWEEN PRECAST
BE PREFORMED BUTYL

FRAME AND COVER
IN FULL MORTAR BED.
DE WITH CLAY BRICK
2 BRICK COURSES
BRICK COURSES

[illegible]

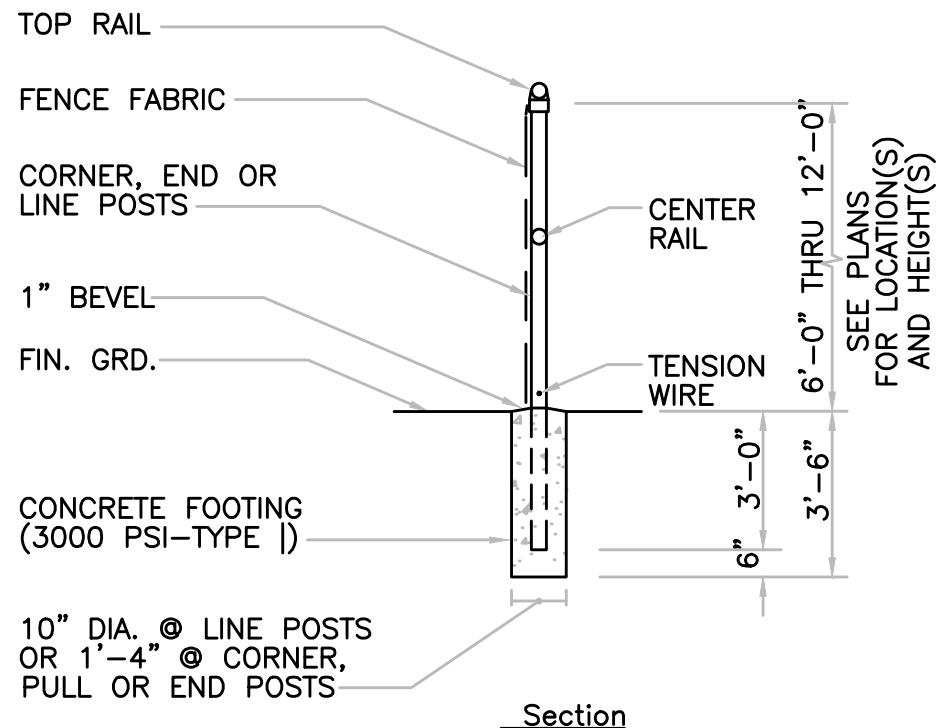
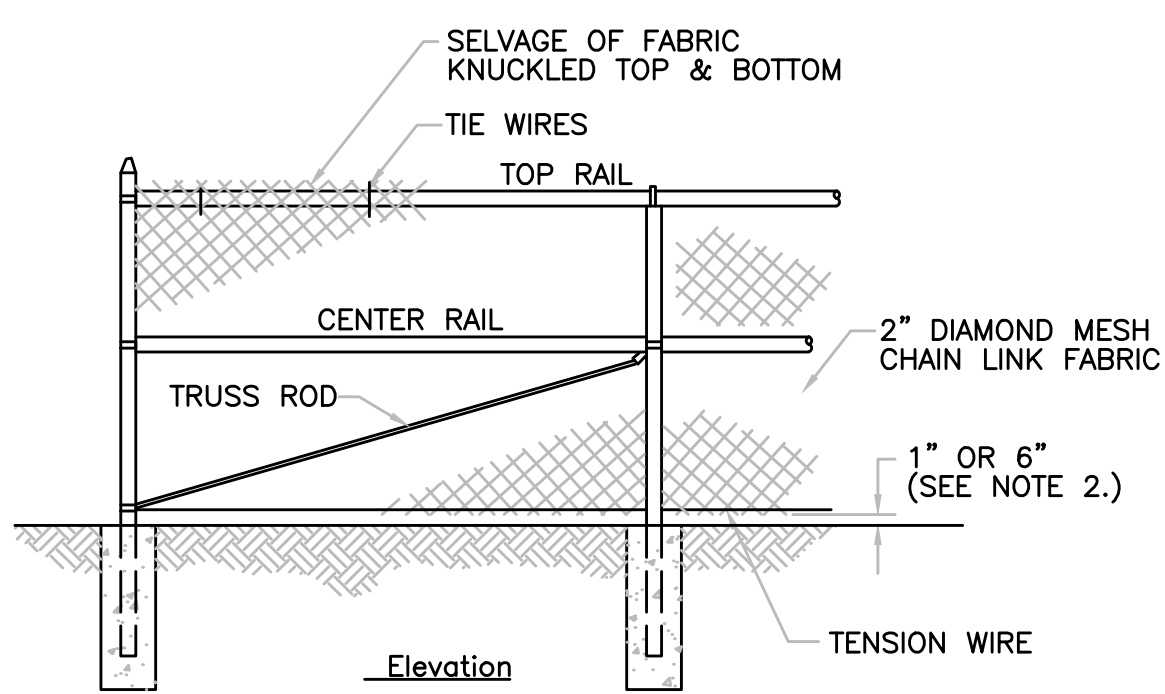
FILE NAME: SEGMENT3_SD(OET_WAMSUTTA).DWG



- Note:
1. MATERIALS TO BE SUPPLIED AND INSTALLED IN CONFORMANCE WITH "CHAIN LINK MANUFACTURER'S INSTITUTE" PRODUCT MANUAL.
 2. PROVIDE 6" OF CLEARANCE BETWEEN THE BOTTOM OF FABRIC AND FINISH GRADE AROUND BMP IF AN ORDER OF CONDITIONS WAS ISSUED FOR THE PROJECT.

Chain Link Fence up to 6'

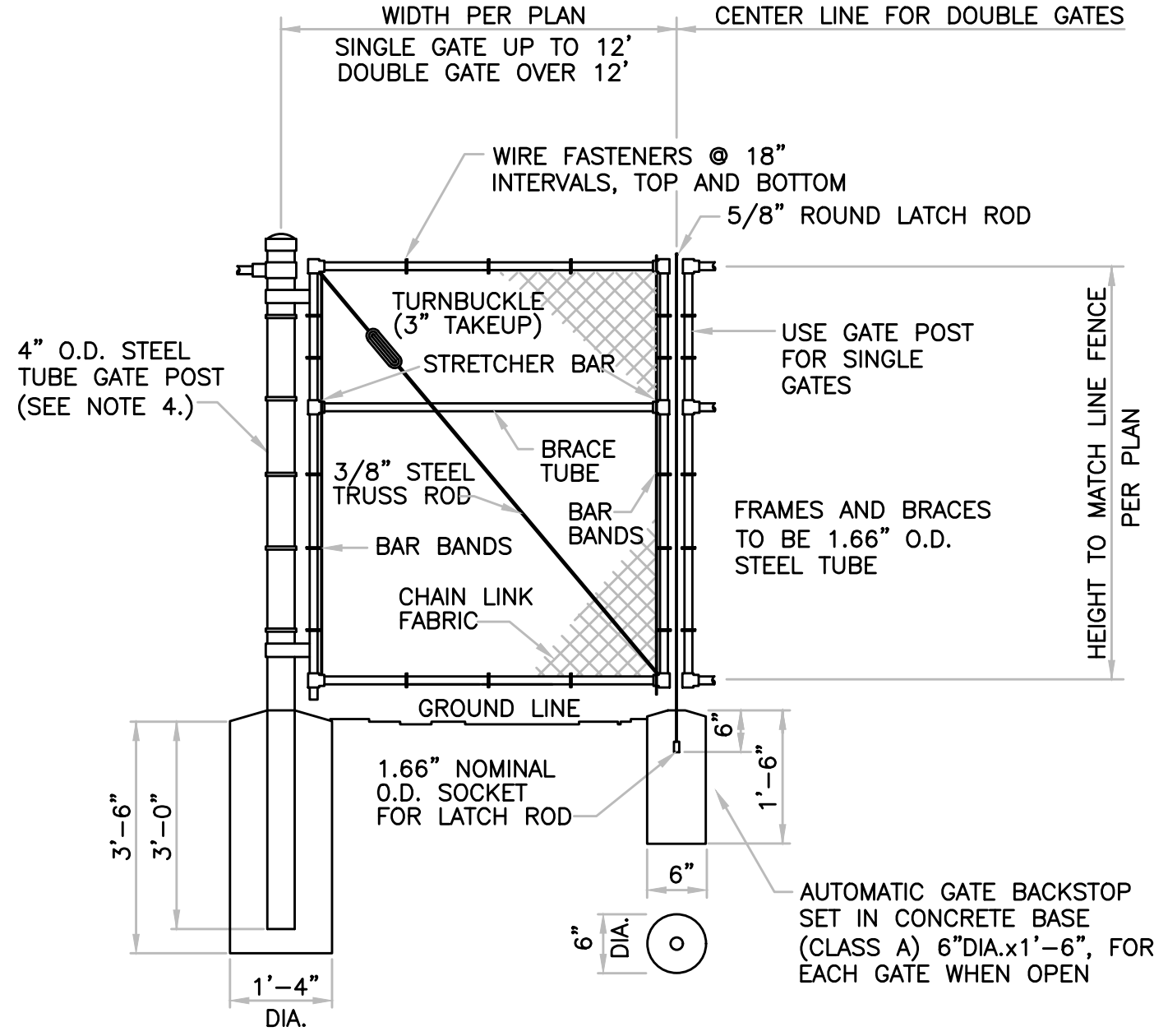
SCALE: N.T.S.



- Note:
1. MATERIALS TO BE SUPPLIED AND INSTALLED IN CONFORMANCE WITH "CHAIN LINK MANUFACTURER'S INSTITUTE" PRODUCT MANUAL.
 2. PROVIDE 6" OF CLEARANCE BETWEEN THE BOTTOM OF FABRIC AND FINISH GRADE AROUND BMP IF AN ORDER OF CONDITIONS WAS ISSUED FOR THE PROJECT.

6' to 12' Chain Link Fence

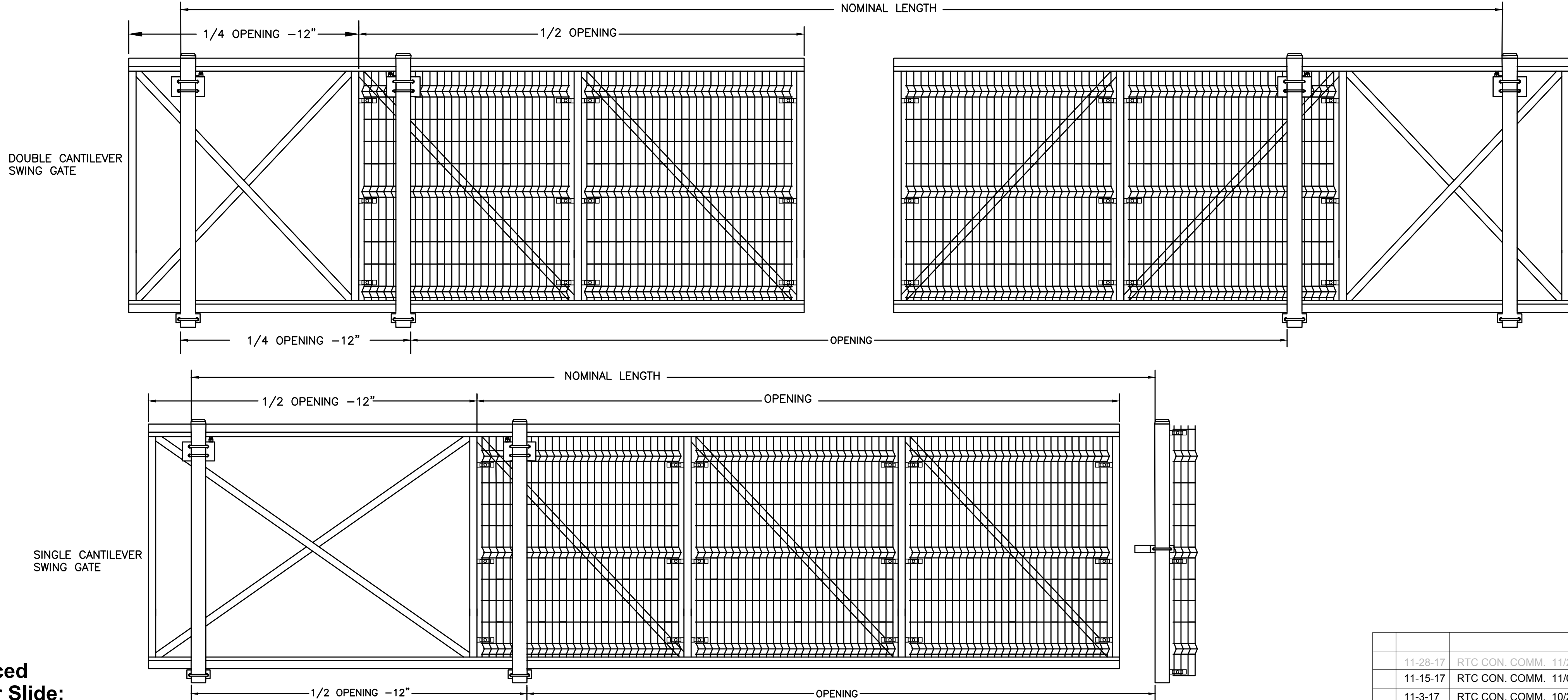
SCALE: N.T.S.



- Notes:
1. CHAIN LINK FABRIC FOR GATES TO BE THE SAME AS REQUIRED FOR FENCE.
 2. GATE POST BASE--PORTLAND CEMENT CONCRETE (3000 PSI).
 3. FENCE FABRIC, POSTS, FRAMEWORKS, AND HARDWARE SHALL BE GALVANIZED STEEL PER SPECIFICATIONS.
 4. GATE POSTS TO BE USED ON EACH SIDE OF SINGLE AND DOUBLE GATE OPENINGS.

Chain Link Fence Gate

SCALE: N.T.S.

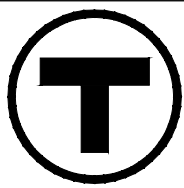


Tube Braced Cantilever Slide:

Single and Double Tube Braced Cantilever Slide Gate

N.T.S.

ISSUED FOR NOTICE OF INTENT



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE WAMSUTTA LAYOVER AND TRACK PLAN DETAILS 5



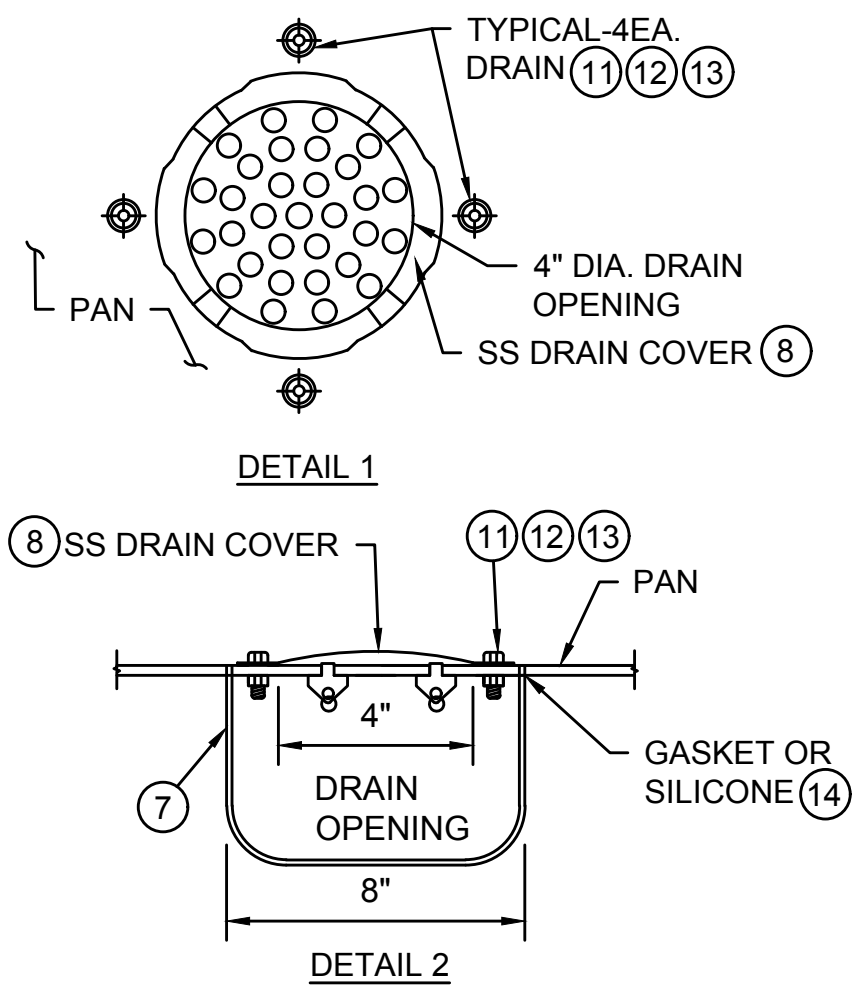
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

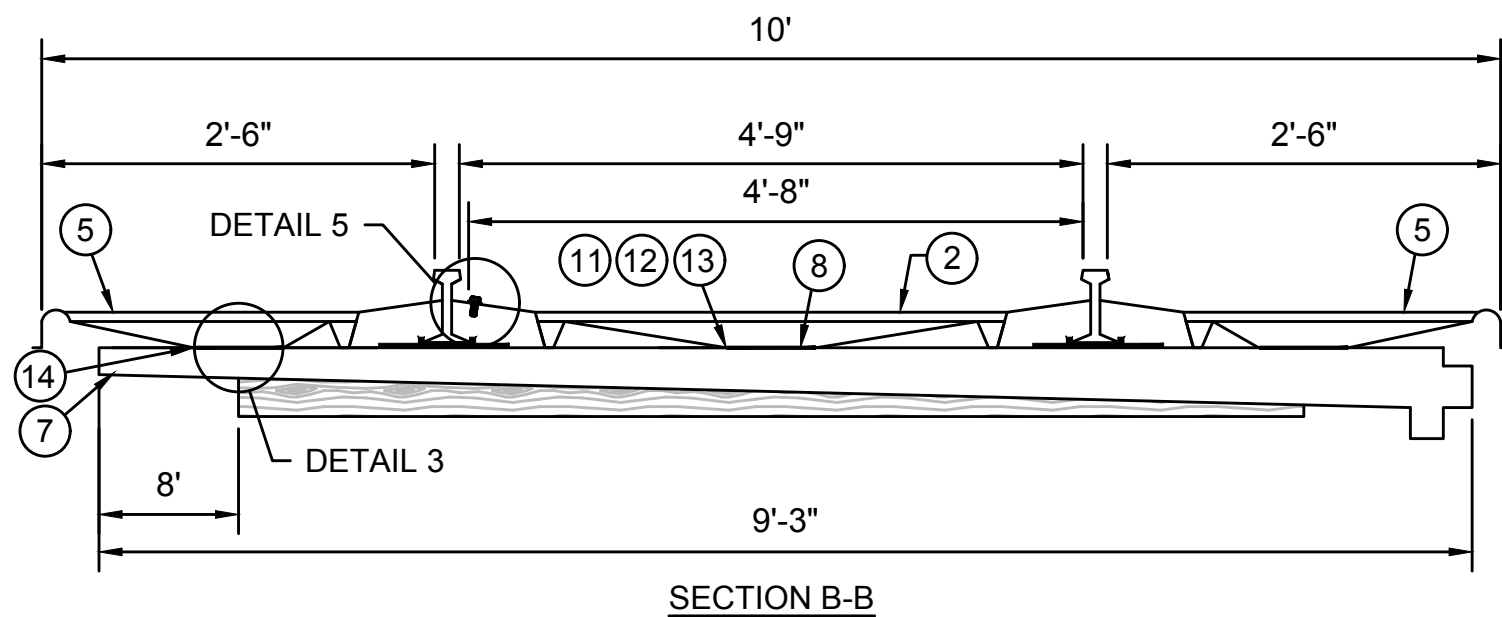
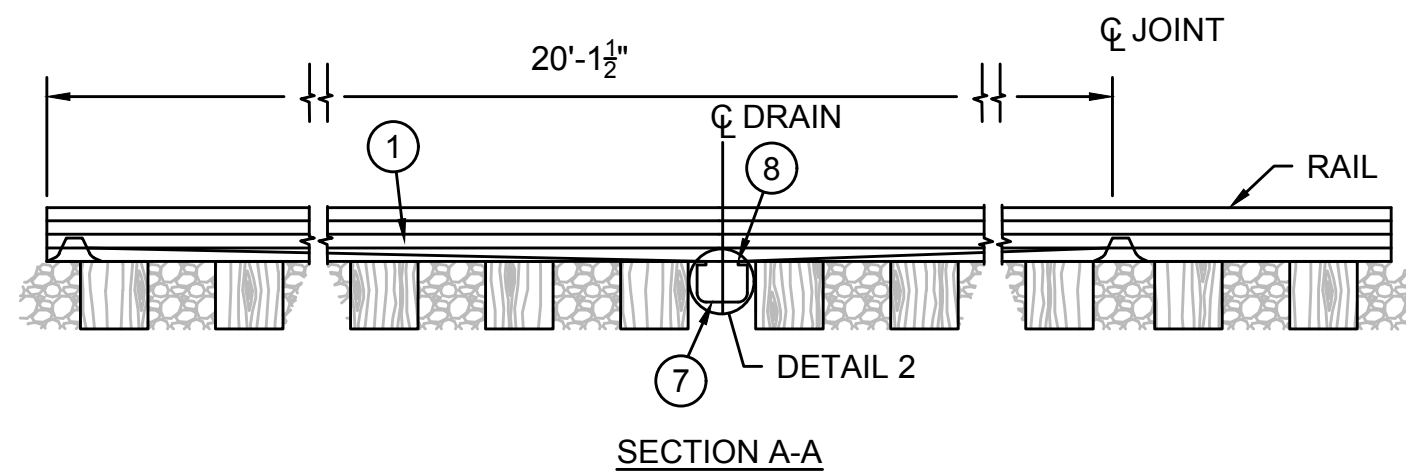
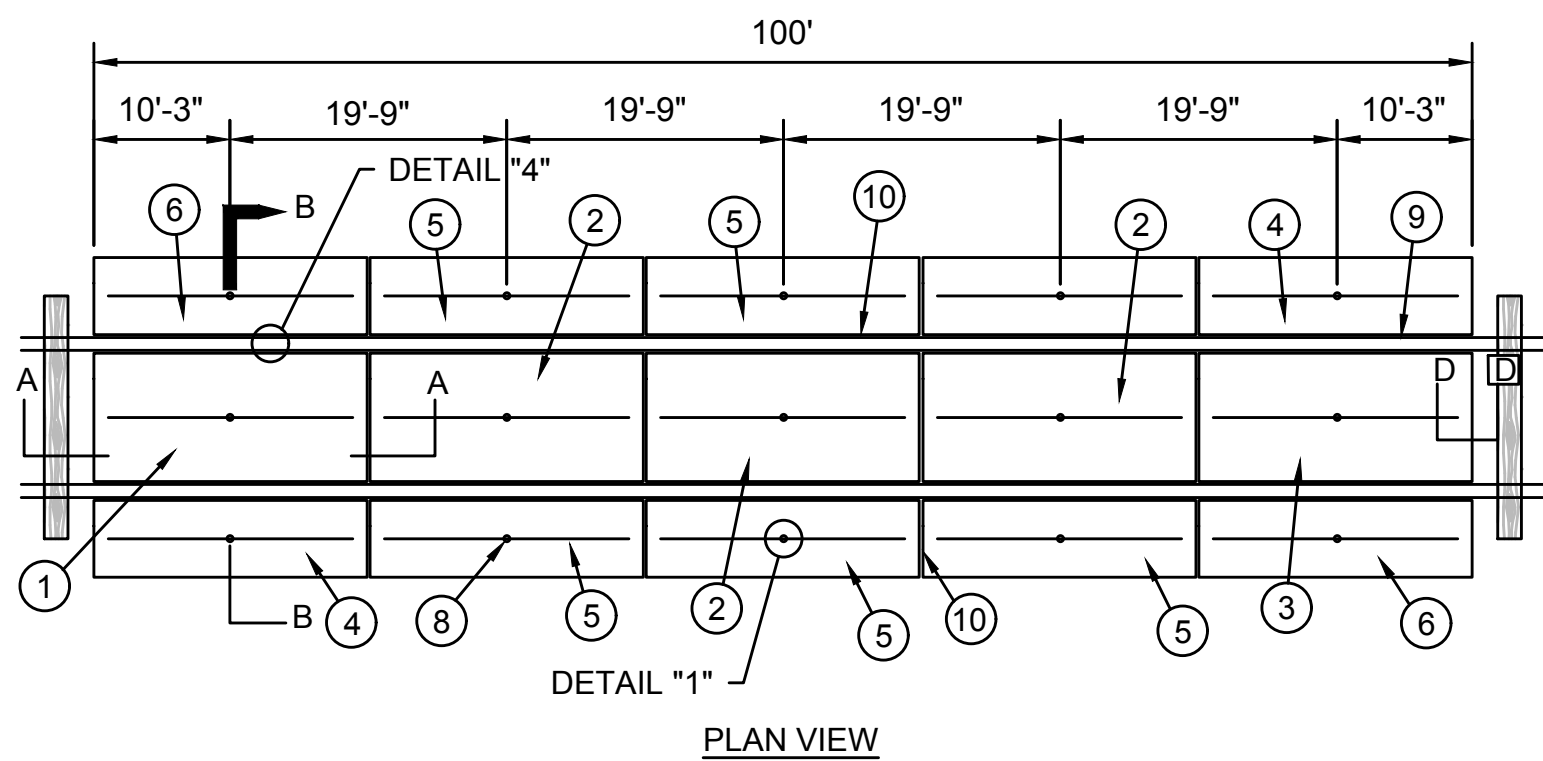
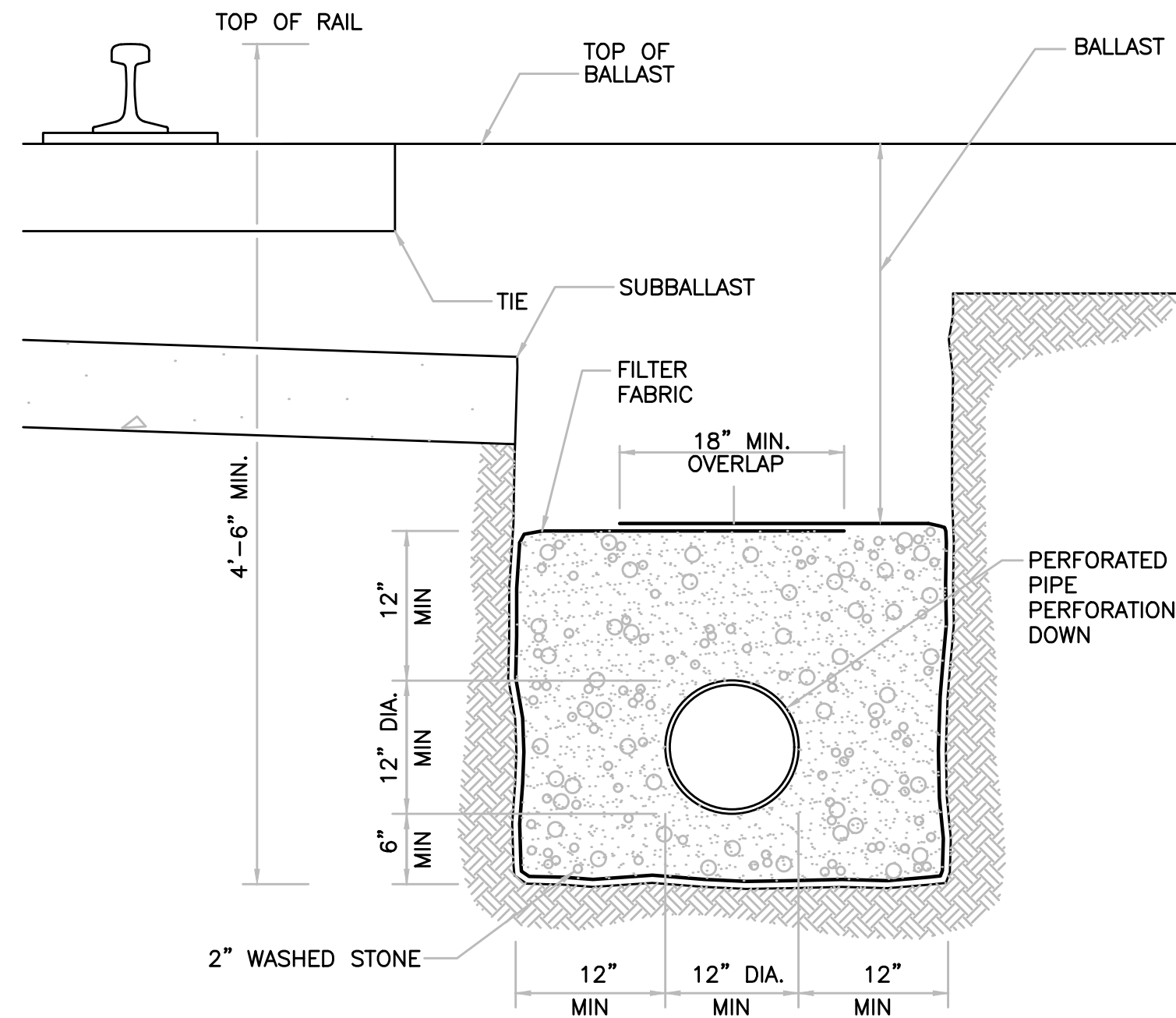
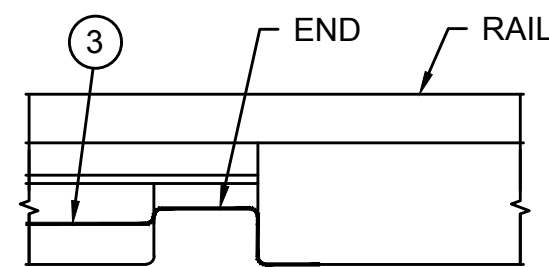
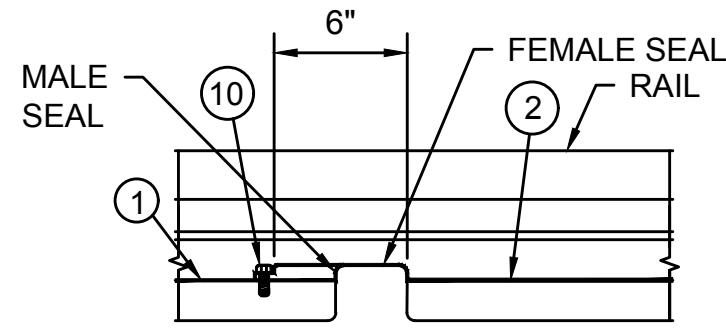
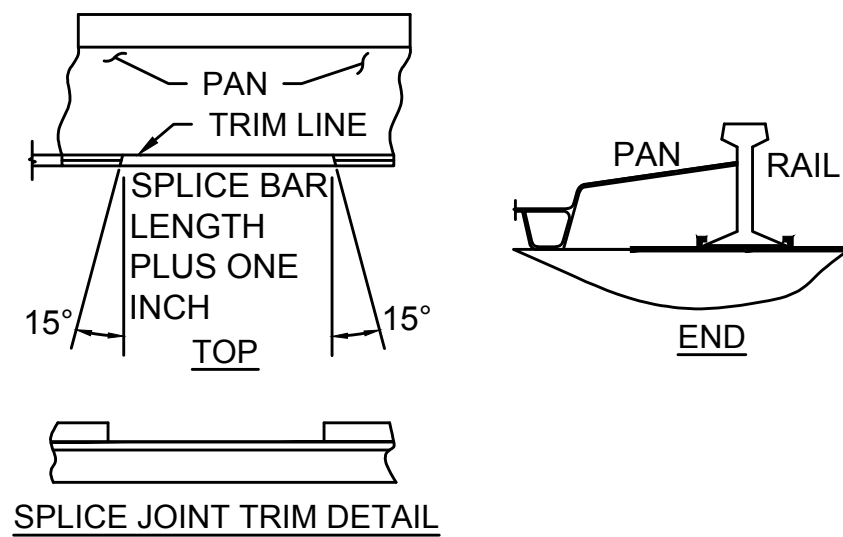
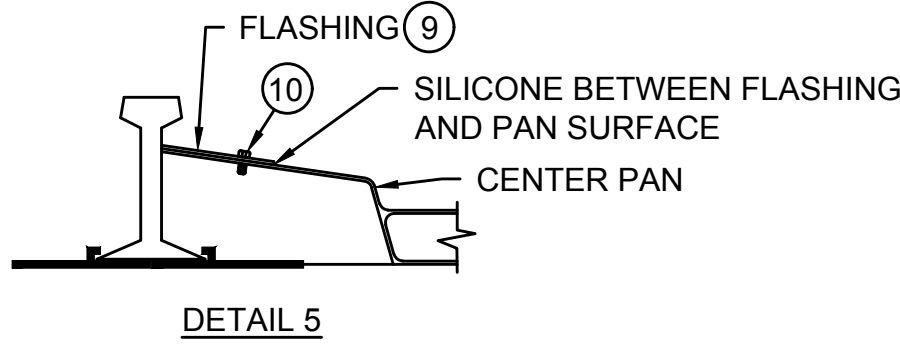
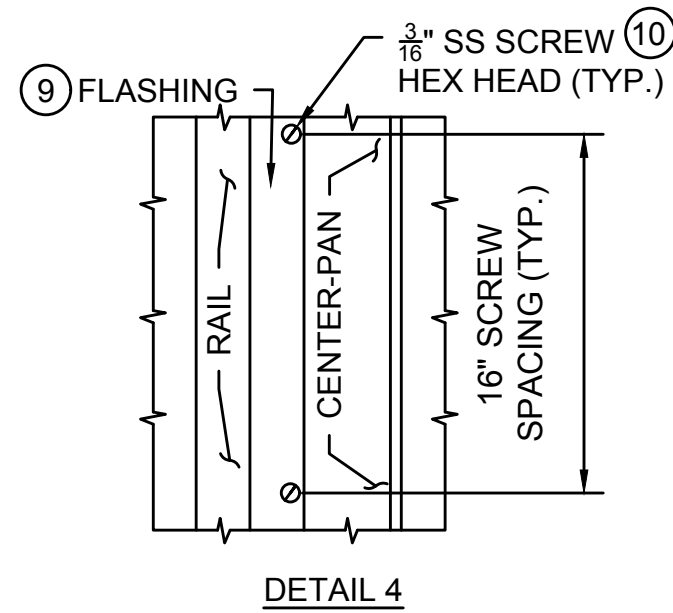
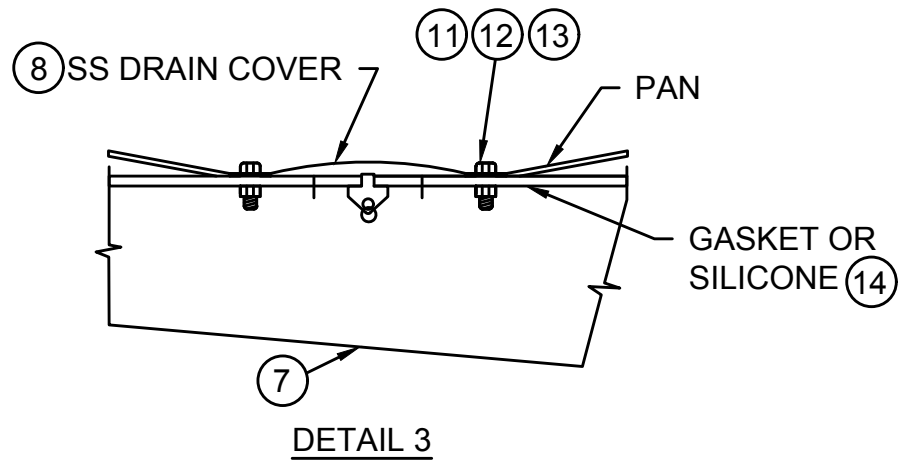
APPROVED BY:

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	Date	PROJECT MANAGER	Date
11-28-17	RTC CON. COMM.	11/20/17	RG	HF	RC	HORIZ: NONE	DES. BY	DR. BY	CHK. BY
11-15-17	RTC CON. COMM.	11/08/17	RG	HF	RC	VERT: NONE	ADZ	RRD	KJC
11-3-17	RTC CON. COMM.	10/20/17	RG	HF	RC	DATE: 08/04/2017	ADZ	RRD	KJC
							PLAN NO.		
							SHEET	CV-309	ISSUE

FILE NAME: SEGMENT3_SD(DET_WAMSUTTA).DWG



ITEM	QTY.	DESCRIPTION
1	1	CENTER PAN END-MALE
2	3	CENTER PAN FEMALE-MALE
3	1	CENTER PAN FEMALE-END
4	2	SIDE PAN END-MALE
5	6	SIDE PAN FEMALE-MALE
6	2	SIDE PAN FEMALE-END
7	5	POSI-PIPE
8	15	DRAIN COVER SS
9	5	FLASHING FRP
10		SELF-DRILLING SCREWS SS
11		BOLT HEX 5/16" SS
12		NUT HEX 5/16" SS
13		WASHER FLAT SS
14		GASKET



Oil Drip Pan Section and Details Sheet

SCALE: N.T.S.

ISSUED FOR NOTICE OF INTENT



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE WAMSUTTA LAYOVER AND TRACK PLAN DETAILS 6



99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	Date	PROJECT MANAGER	Date
11-28-17	11-28-17	RTC CON. COMM.	RG	HF	RC				
11-15-17	11-15-17	RTC CON. COMM.	RG	HF	RC				
11-3-17	11-3-17	RTC CON. COMM.	RG	HF	RC				
HORIZ:	NONE	DES. BY	ADZ	DR. BY	KJC	PLAN NO.		ISSUE	
VERT:	NONE	DATE:	08/04/2017			SHEET	CV-310		



RIGHT OF WAY	
BORDERING VEGETATED WETLAND	
BANK	
CL. STREAM	
BLSF/LSCSF	
25' / 200' RIVERFRONT AREA	
100' RIVER BUFFER ZONE	
TREE	
CONTOUR MINOR	
CONTOUR MAJOR	



**NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLANS
SITE SURVEY PLAN 2**



99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

APPROVED BY:

PROJECT MANAGER		Date	
HORIZ: 1" = 40'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 40'	ADZ	RRD	KJC
DATE: 08/04/2017			

DES. BY	DR. BY	CHK. BY	PLAN NO
ADZ	RRD	KJC	
			SHEET

ISSUE

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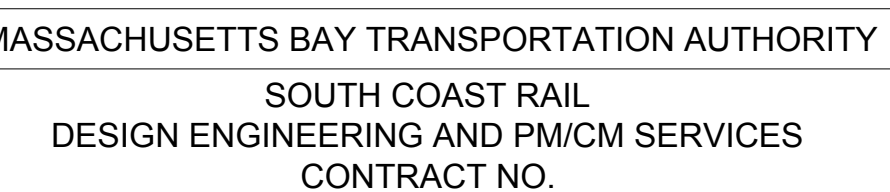
HOR. SCALE IN FEET

40 0 40 80

A horizontal scale bar with alternating black and white segments. It is marked with the numbers 40, 0, 40, and 80, indicating distances in feet. The total length of the bar represents 80 feet.



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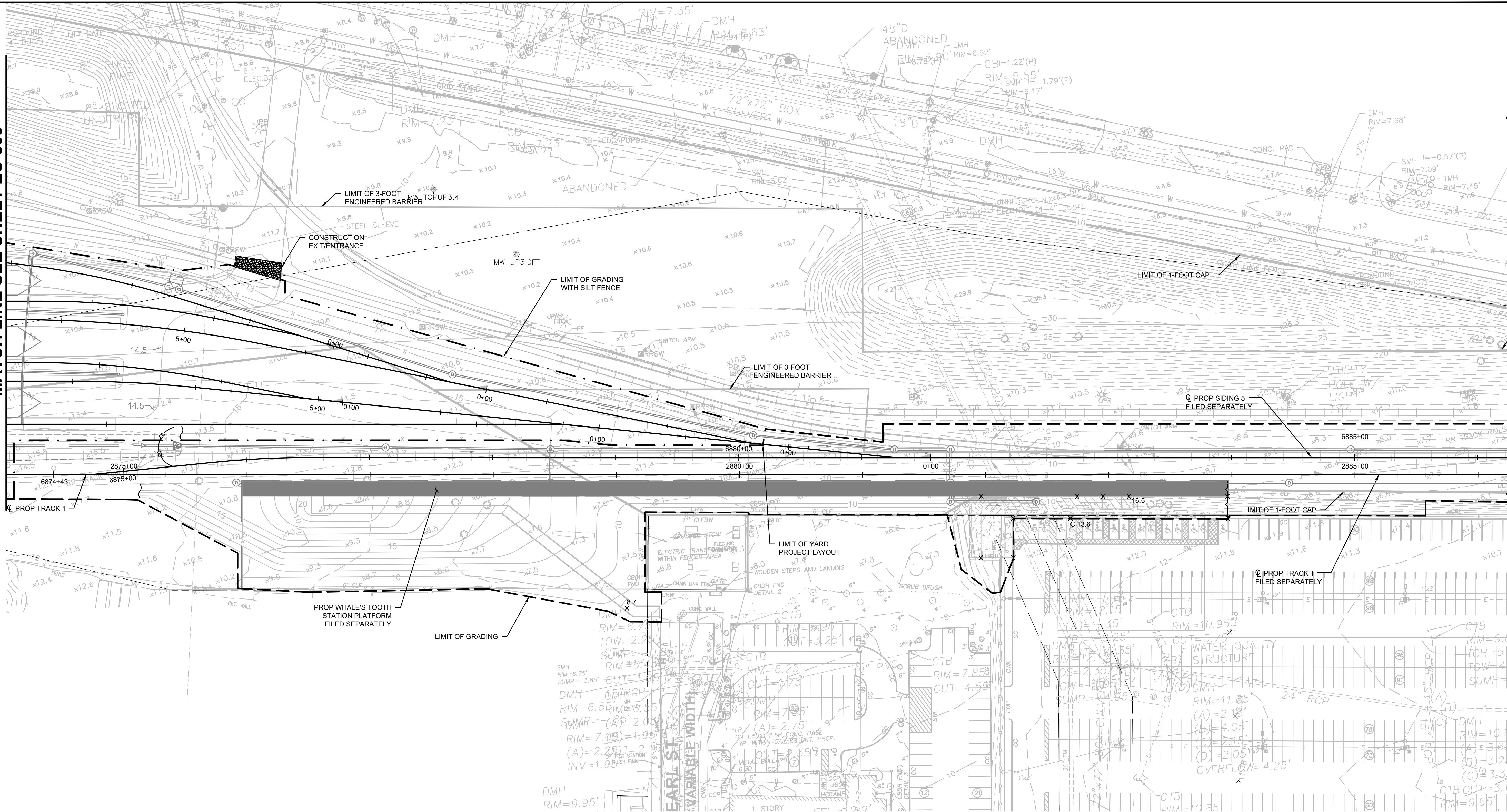
APPROVED BY:

HOR. SCALE IN FEET

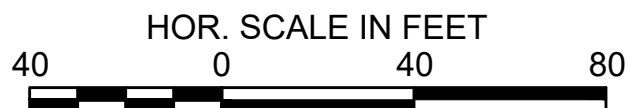
40 0 40 80

A horizontal scale bar with alternating black and white segments. The segments are labeled 40, 0, 40, and 80 from left to right, indicating distances in feet.

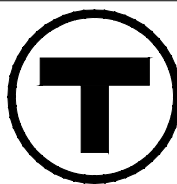
MATCH LINE SEE SHEET EC-300



100 YEAR FLOOD ELEVATION - 6.0
500 YEAR FLOOD ELEVATION - 15.2



ISSUED FOR NOTICE OF INTENT



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

**NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLANS
EROSION CONTROL PLAN 2**



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BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

APPROVED BY:

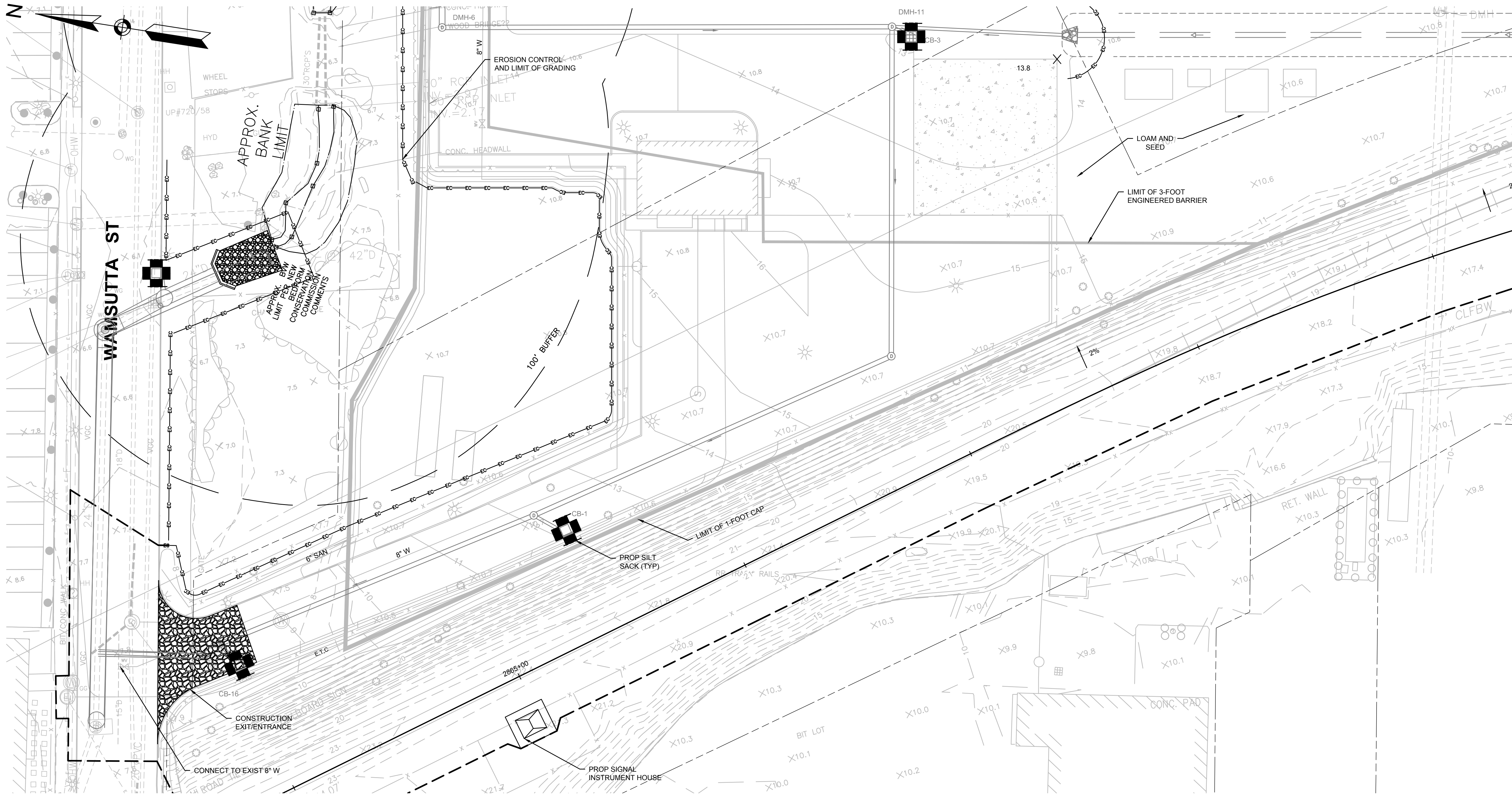
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PROJECT MANAGER
HORIZ: 1"=40'
VERT: NONE
DATE: 08/04/2017

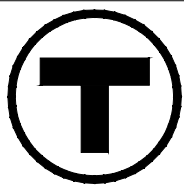
DES. BY
DC
CHK. BY
DC
KJC

PROJECT MANAGER
PLAN NO.
SHEET EC-302

ISSUE



ISSUED FOR NOTICE OF INTENT



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLANS
EROSION CONTROL PLAN 3



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MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

APPROVED BY:

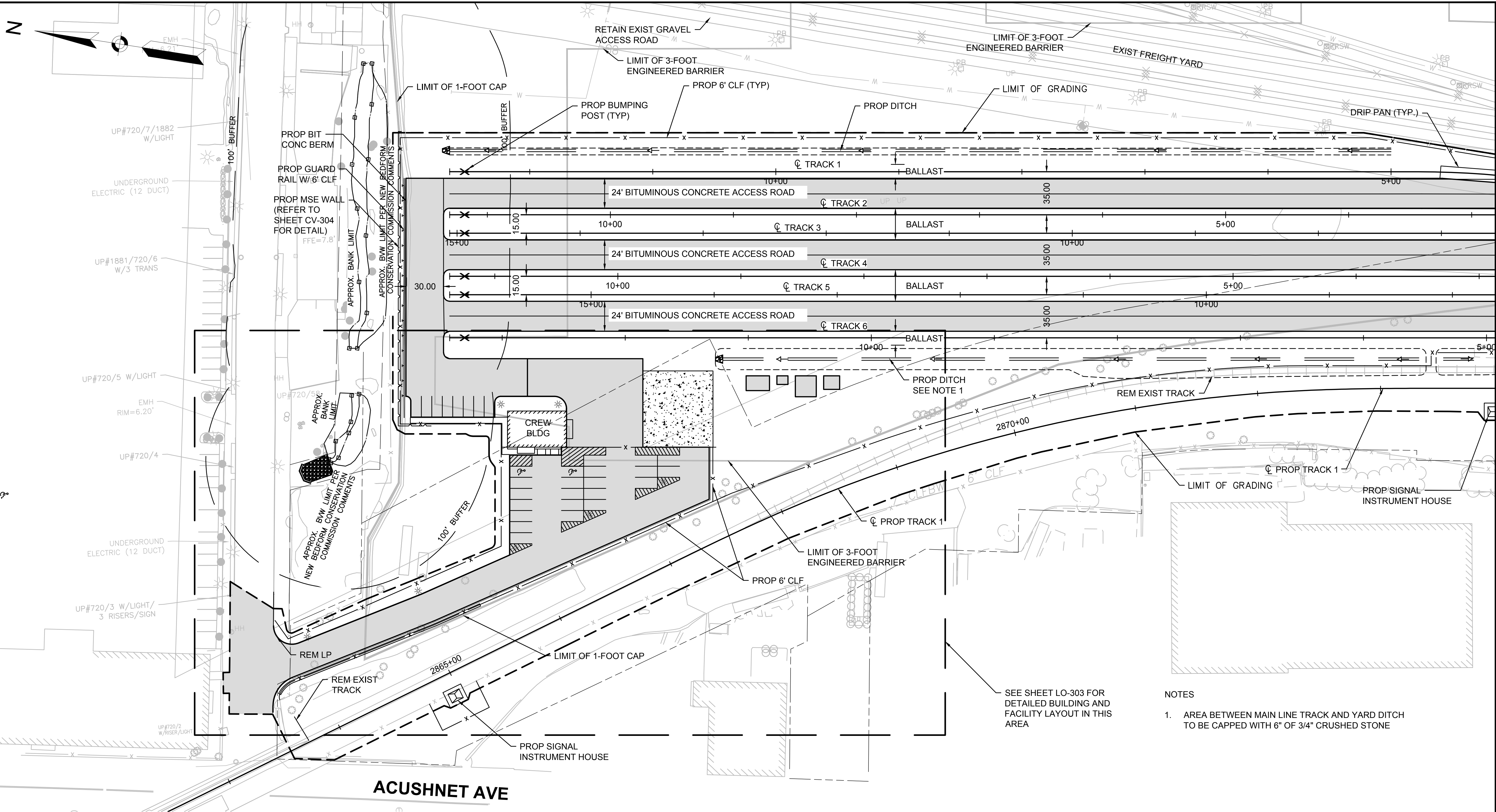
ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.
11-28-17	11-28-17	RTC CON. COMM. 11/20/17	RG	HF	RC
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11-3-17	11-3-17	RTC CON. COMM. 10/20/17	RG	HF	RC

PROJECT MANAGER
HORIZ: 1"=20'
VERT: NONE
DATE: 08/04/2017

DES. BY: DC
DR. BY: DC
CHK. BY: KJC

PROJECT MANAGER
PLAN NO.
SHEET EC-303

FILE NAME: SEGMENTS_EV\LO_WAMSUTTA.DWG



LEGEND & SYMBOLS

RIGHT OF WAY	
BORDERING VEGETATED WETLAND	
BANK	
CL STREAM	
BLSF/LSCSF	
25' / 200' RIVERFRONT AREA	
100' WETLAND BUFFER ZONE	
TREE	
CONTOUR MINOR	
CONTOUR MAJOR	

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
BANK	0 LF
LAND UNDER WATER	0 SF



ISSUED FOR NOTICE OF INTENT



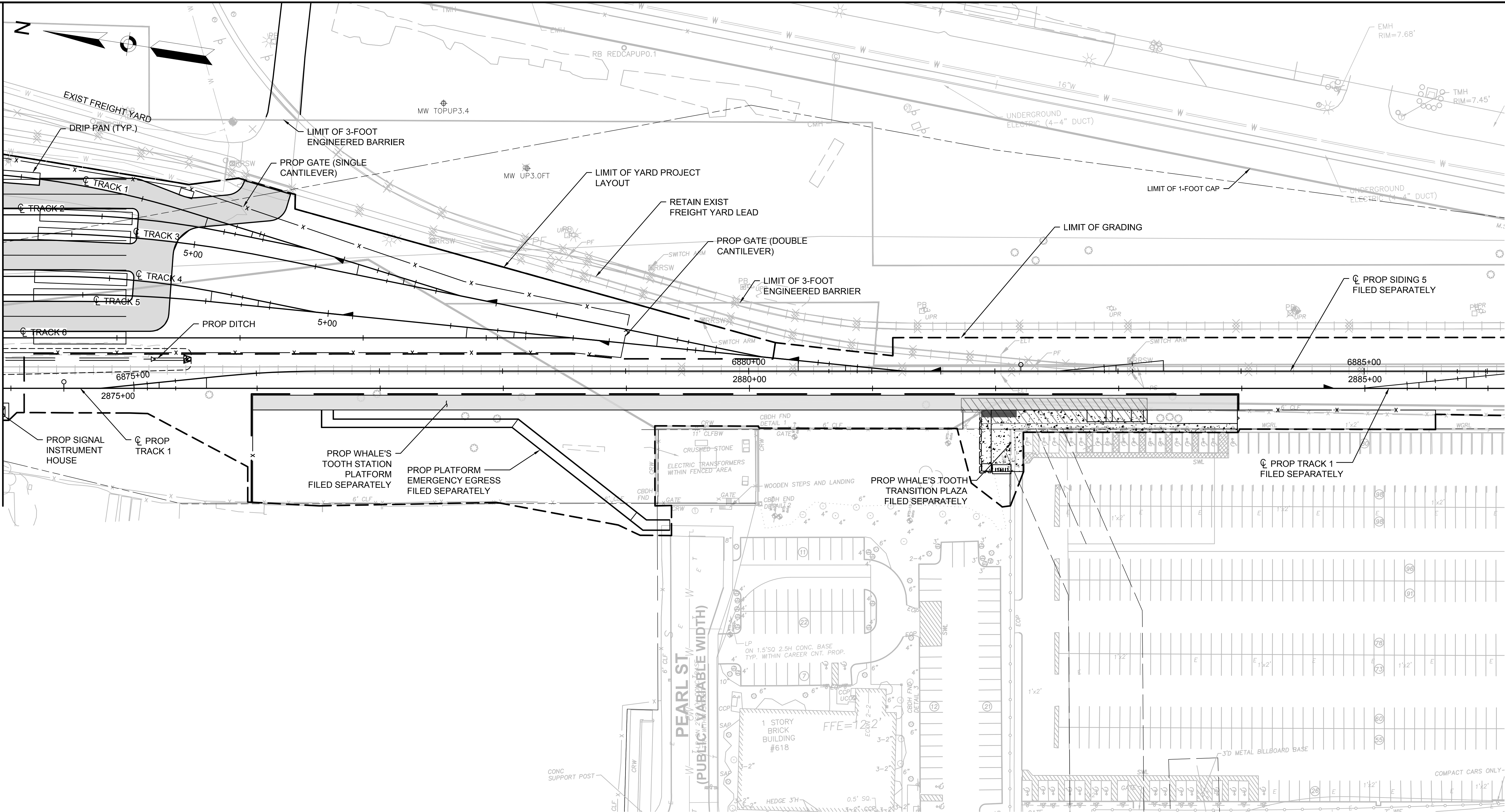
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLANS
SITE PLAN 1

			99 HIGH STREET BOSTON, MA 02110 (617) 728-7777			MASSACHUSETTS BAY TRANSPORTATION AUTHORITY		
PROJECT MANAGER			Date			APPROVED BY:		
HORIZ: 1" = 40'			DES. BY			PLAN NO.		
VERT: 1" = 40'			ADZ			SHEET LO-301		
DATE: 08/04/2017			CHK. BY			ISSUE		

MATCH LINE SEE SHEET LO-302

MATCH LINE SEE SHEET LO-301

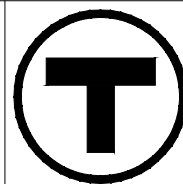


LEGEND & SYMBOLS

RIGHT OF WAY	
BORDERING VEGETATED WETLAND	
BANK	
CL STREAM	
BLSF/LSCSF	
25' / 200' RIVERFRONT AREA	
100' WETLAND BUFFER ZONE	
TREE	
CONTOUR MINOR	
CONTOUR MAJOR	



ISSUED FOR NOTICE OF INTENT



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLANS
SITE PLAN 2



99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

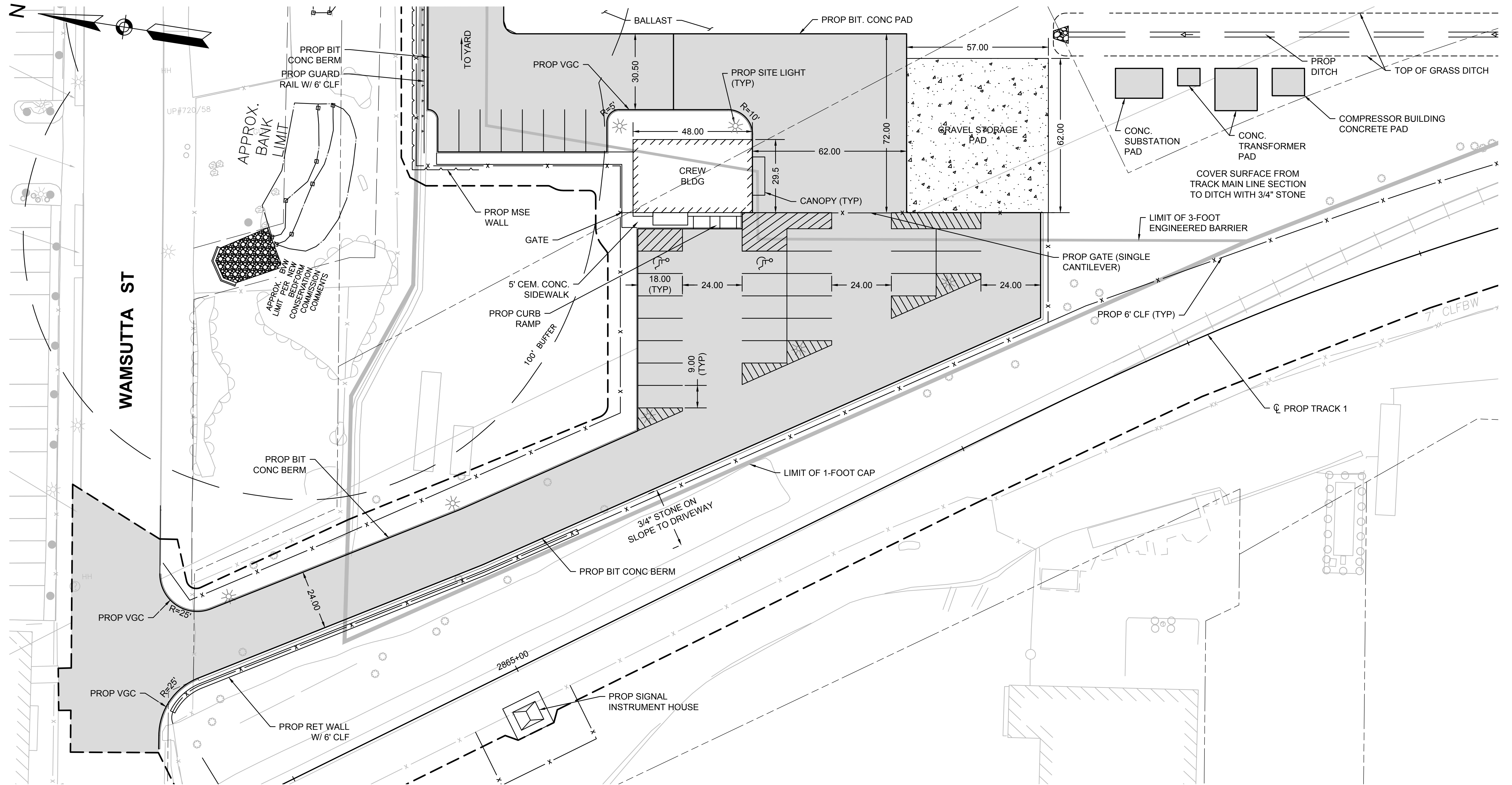
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ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.
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11-15-17	11-15-17	RTC CON. COMM.	RG	HF	RC
11-3-17	11-3-17	RTC CON. COMM.	RG	HF	RC

PROJECT MANAGER	DATE
HORIZ: 1" = 40'	DES. BY
VERT: 1" = 40'	DR. BY
DATE: 08/04/2017	CHK. BY

PROJECT MANAGER	DATE
PLAN NO.	ISSUE
SHEET	LO-302

FILE NAME: SEGMENTS_EV\LO_WAMSUTTA.DWG



ISSUED FOR NOTICE OF INTENT



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLANS
BUILDING AND FACILITY SITE PLAN



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BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.
11-28-17	11/20/17	RTC CON. COMM.	RG	HF	RC
11-15-17	11/08/17	RTC CON. COMM.	RG	HF	RC
11-3-17	10/20/17	RTC CON. COMM.	RG	HF	RC

PROJECT MANAGER
HORIZ: 1"=20'
VERT: NONE
DATE: 08/04/2017

DES. BY
DC

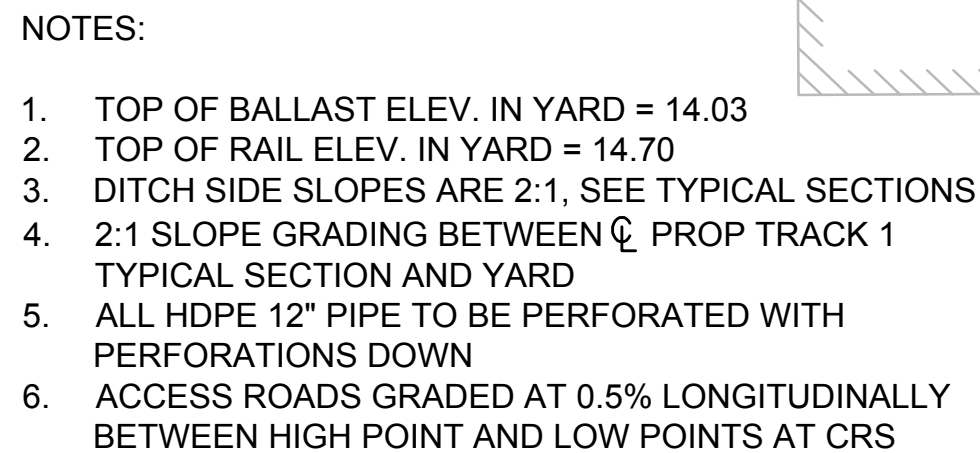
DR. BY
DC

CHK. BY
KJC


PROJECT MANAGER
PLAN NO.
SHEET LO-303

ISSUE

HOR. SCALE IN FEET
20 0 20 40



DRAINAGE STRUCTURE TABLE			
NAME	RIM	INCOMING PIPES	OUTGOING PIPES
DMH-24	RIM = 11.6	I=9.98' (CB-6)	I=9.98' (WQI-3) I=10.10' (DMH-25)
DMH-25	RIM = 13.7	I=9.80' (CB-2) I=9.80' (DMH-24) I=9.45' (WMI-3)	I=9.45' (CO)
DMH-60	RIM = 8.2	I=4.00' (DMH-4) I=4.00' (CB-16)	I=4.00' (WQS-1)
IP-1	RIM = 7.7	I=3.50' (WQS-1) I=2.29' (DMH-115)	I=2.29' (IP-2)
WQI-1	RIM = 1.1	I=9.80' (DMH-20)	I=9.55' (DMH-21)
WQI-2	RIM = 1.1	I=9.80' (DMH-22)	I=9.55' (DMH-23)
WQI-3	RIM = 1.1	I=9.80' (DMH-24)	I=9.55' (DMH-25)
WQS-1	RIM = 8.0	I=3.90' (DMH-60)	I=3.80' (IP-1)



**NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLANS
GRADING AND UTILITY PLAN 1**

	11-28-17	RTC CON. COMM. 11/20/17	SK	HF	RC	 <div>99 HIGH STREET BOSTON, MA 02110 (617) 728-7777</div>	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY			
	11-17-17	RTC CON. COMM. 11/16/17	SK	HF	RC		APPROVED BY:			
	11-15-17	RTC CON. COMM. 11/06/17	RG	HF	RC					
ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.		PROJECT MANAGER		Date	
						HORIZ: 1" = 40'		DES. BY	DR. BY	CHK. BY
						VERT: NONE		DC	DC	KJC
						DATE: 08/04/2017				
						PLAN NO.				ISSUE
						SHEET UT-301				

MATCH LINE SEE SHEET UT-301

NOTES:

1. TOP OF BALLAST ELEV. IN YARD = 14.03 (UNLESS OTHERWISE NOTED)
2. TOP OF RAIL ELEV. IN YARD = 14.70 (UNLESS OTHERWISE NOTED)
3. GRASS CHANNEL SIDE SLOPES ARE 2:1, SEE TYPICAL SECTIONS
4. 2:1 SLOPE GRADING BETWEEN \mathcal{C} PROP TRACK 1 TYPICAL SECTION AND YARD

DRAINAGE STRUCTURE TABLE			
NAME	RIM	INCOMING PIPES	OUTGOING PIPES
DMH-27	RIM = 12.4	I=8.25' (DMH-85)	I=8.25' (DMH-29)
DMH-29	RIM = 13.6	I=6.75' (DMH-27)	I=6.65' (DMH-30)
DMH-30	RIM = 13.3	I=5.90' (DMH-29)	I=5.80' (DMH-31)
DMH-31	RIM = 13.0	I=5.50' (DMH-30)	I=5.40' (DMH-57)
DMH-32	RIM = 16.2	I=10.75' ()	I=10.75' (DMH-33)
DMH-33	RIM = 13.2	I=11.60' () I=10.50' (DMH-32)	I=10.34' (DMH-35)
DMH-34	RIM = 16.2		I=13.25' (DMH-35)
DMH-35	RIM = 15.7	I=11.67' (DMH-34) I=10.20' (DMH-33)	I=11.67' (DMH-57)
DMH-37	RIM = 13.6	I=7.90' ()	I=7.90' (DMH-38)
DMH-50	RIM = 11.0	I=7.60' ()	I=7.50' (DMH-51)
DMH-57	RIM = 13.7	I=9.80' (DMH-35) I=5.00' (DMH-31)	I=4.90' (WQS-3)
DMH-59	RIM = 11.5	I=2.00' (WQS-3)	

DRAINAGE STRUCTURE TABLE			
NAME	RIM	INCOMING PIPES	OUTGOING PIPES
DMH-61	RIM = 11.8	I=10.30' (DMH-80)	I=10.25' (DMH-84)
DMH-84	RIM = 14.4	I=9.94' (DMH-61)	I=9.94' (OGS 2 INLET) I=10.50' (DMH-85)
DMH-85	RIM = 14.1	I=9.53' (OGS OUTLET) I=10.10' (DMH-84)	I=9.53' (DMH-27)
WQS-3	RIM = 14.9	I=4.75' (DMH-57)	I=4.60' (DMH-59)

100 YEAR FLOOD ELEVATION - 6.0
500 YEAR FLOOD ELEVATION - 15.2

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.


NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLANS
GRADING AND UTILITY PLAN 2



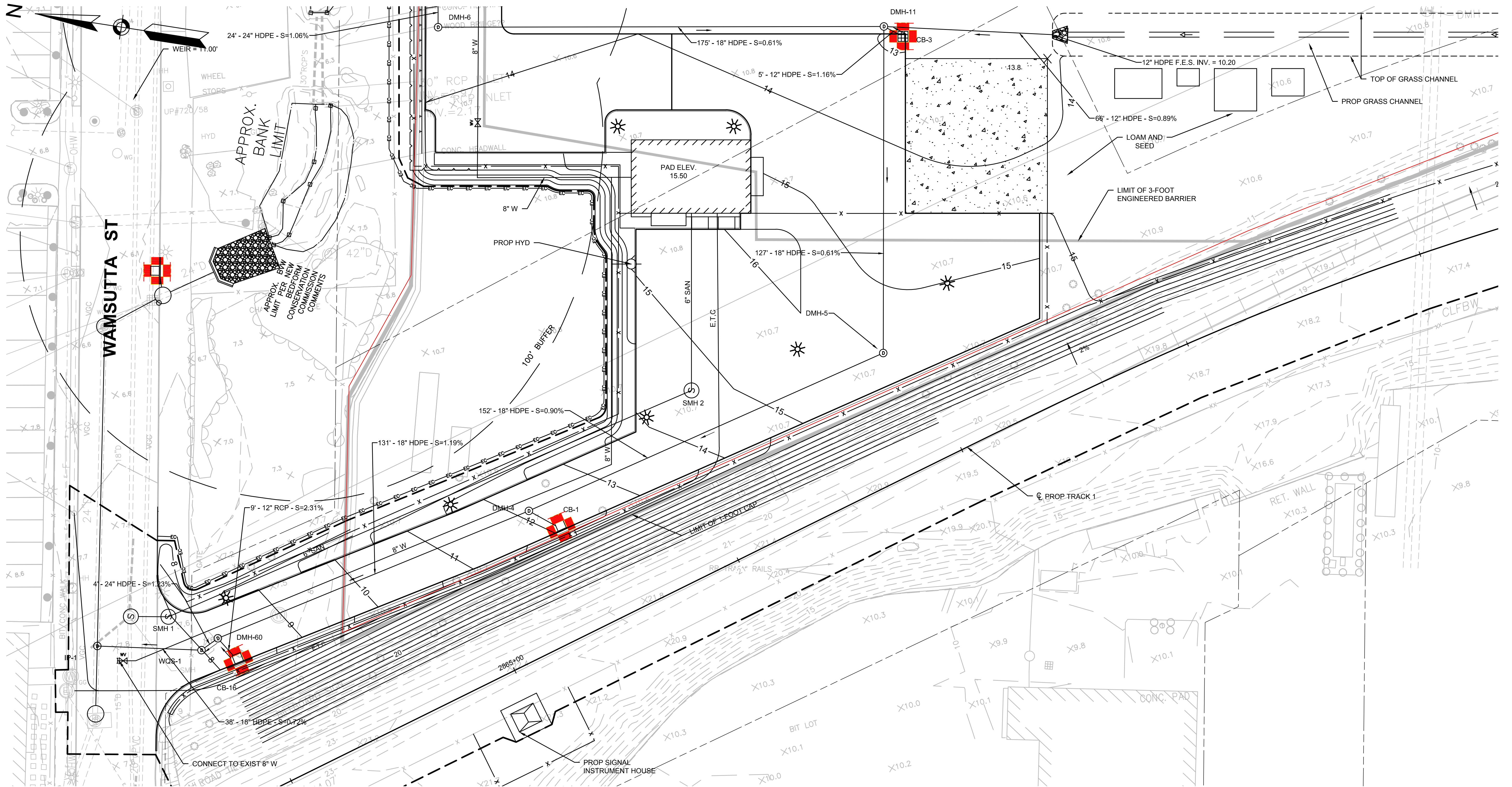
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

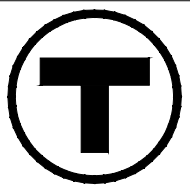
APPROVED BY:

										99 HIGH STREET BOSTON, MA 02110 (617) 723-7777		MASSACHUSETTS BAY TRANSPORTATION AUTHORITY					
11-28-17		RTC CON. COMM. 11/20/17				SK	HF	RC	APPROVED BY:								
11-15-17		RTC CON. COMM. 11/06/17				RG	HF	RC									
ISSUE	DATE	DESCRIPTION				BY	CHKD.	APP.	PROJECT MANAGER				Date				
									HORIZ: 1" = 40'		DES. BY	DR. BY	CHK. BY	PLAN NO.		ISSUE	
									VERT: NONE		DC	DC	KJC	SHEET			UT-302
									DATE: 08/04/2017								

FILE NAME: SEGMENT3_EV(UT_WAMSUTTA).DWG



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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WAMSUTTA LAYOVER AND TRACK PLANS
FACILITY GRADING AND UTILITY PLAN



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BOSTON, MA 02110
(617) 728-7777

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AUTHORITY

APPROVED BY:

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.
11-28-17	RTC CON. COMM.	11/20/17	SK	HF	RC
11-15-17	RTC CON. COMM.	11/06/17	SK	HF	RC

PROJECT MANAGER
HORIZ: 1"=20'
VERT: NONE
DATE: 08/04/2017

DES. BY
DC

DR. BY
DC

CHK. BY
KJC

PROJECT MANAGER
PLAN NO.
SHEET UT-303

DATE
ISSUE

FILE NAME: SEGMENT3_EV(L02_WAMSUTTA).DWG

ASHLEY BLVD (ROUTE 18)

ACUSHNET AVE

NBML

WAMSUTTA ST

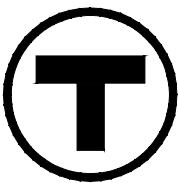
PROPOSED DRAINAGE CONDITIONS



NOTES:

1. EXISTING INVERTS TO BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION AND REPORTED TO THE DESIGN ENGINEER IF THERE ARE ANY DISCREPANCIES.
2. INSTALL SILT SACK IN EXISTING CATCH BASIN, BEFORE COMMENCING WORK AND IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION OF STRUCTURE. MAINTAIN UNTIL BINDER COURSE PAVING IS COMPLETE OR PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
3. REMOVE EXISTING CATCH BASIN FRAME AND GRATE; CREATE PAVED SWALE OUTLET AT CURB LINE AND CONSTRUCT STONE LINED SWALE OVER CULVERT TO OUTLET.

ISSUED FOR NOTICE OF INTENT



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO. K78PS01

NEW BEDFORD MAIN LINE
WAMSUTTA STREET
PROPOSED DRAINAGE PLAN



99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY

APPROVED BY:

ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.

PROJECT MANAGER
Date
HORIZ: 1" = 20'
VERT: 1" = 20'
DATE: 08/04/2017

PROJECT MANAGER
Date
PLAN NO. ###
SHEET UT-304