





# South Coast Rail - Phase I

SCR MS/NBML Commuter Rail Expansion Project Middleborough To New Bedford, MA

Volume 2D - New Bedford Station New Bedford Main Line

MBTA Contract No. K78CN04

who HNTB

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

**ISSUED FOR BID** 

April 24, 2020

PLAN NUMBERS: 312050 TO 312217

\\wb\gbl\proj\Boston\12815.00 SCR PM & CM\CAD\Segment3\DWG\CV\Stations\Segment

PV-400	312076
PV-401	312077
SL-401	312078
SL-402	312079
SS-400	312080
SD-401	312081
SD-402	312082
SD-403	312083
SD-404	312084
SD-405	312085
SD-406	312086
SD-407	312087
SD-408	312088
SD-409	312089
LANDSCAPE	
LD-401	312092
LD-402	312093
LD-403	312094
ARCHITECTURAL	
AR-400A	312095
AR-400B	312095
AR-400C	312097
AR-400D	312098
AR-401	312099
AR-402	312100
AR-403	312101
AR-404	312101
AR-405	312102
	312103
AR-406	
AR-407	312105
AR-410	312106
AR-411	312107
AR-412	312108
AR-413	312109
AR-414	312110
AR-415	312111

SHEET NO.	PLAN NO.	LINE	DRAWING DESCRIPTION
GENERAL			
GN-400	312050	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, COVER SHEET
GN-401	312051	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, INDEX SHEET
KEY PLAN			
KP-400	312052	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, KEY PLAN
(11 100)	0.2002	NEW BEDI OND MAIN LINE	WEW BEBLOKE CITTION, RETTERN
CIVIL (CV)			
CN-401	312053	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CIVIL GENERAL NOTES
CN-402	312054	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CIVIL ABBREVIATIONS SHEET
CN-403	312055	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CIVIL LEGEND SHEET
SV-400 SV-401	312056 312057	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, EXISTING CONDITIONS PLAN 1
EV-400	312057	NEW BEDFORD MAIN LINE  NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, EXISTING CONDITIONS PLAN 2  NEW BEDFORD STATION, ENVIRONMENTAL PLAN
EV-401	312059	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, ENVIRONMENTAL DETAILS
SP-400	312060	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE PREPARATION NOTES
SP-401	312061	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE PREPARATION PLAN 1
SP-402	312062	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE PREPARATION PLAN 2
SP-403	312063	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE PREPARATION DETAILS
LM-400	312064	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, OVERALL LAYOUT & MATERIALS PLAN
LM-401	312065 312066	NEW BEDFORD MAIN LINE  NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LAYOUT & MATERIALS PLAN  NEW BEDFORD STATION, LAYOUT & MATERIALS ENLARGEMENT PLAN
GD-400	312067	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LAYOUT & MATERIALS ENLARGEMENT PLAN  NEW BEDFORD STATION, OVERALL GRADING & DRAINAGE PLAN
GD-401	312068	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, GRADING & DRAINAGE PLAN
GD-402	312069	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, GRADING ENLARGEMENT PLAN 1
GD-403	312070	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, GRADING ENLARGEMENT PLAN 2
GD-404	312071	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, DRAINAGE PLAN & PROFILE
GD-405	312072	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SEWER CASING PLAN & PROFILE
UT-400 UT-401	312073 312074	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, OVERALL UTILITY PLAN  NEW BEDFORD STATION, UTILITY PLAN
UT-402	312074	NEW BEDFORD MAIN LINE  NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, UTILITY PLAN  NEW BEDFORD STATION, UTILITY ENLARGEMENT PLAN
PV-400	312076	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, PAVEMENT PLAN
PV-401	312077	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, PAVEMENT DETAILS
SL-401	312078	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE SIGNAGE & PAVEMENT STRIPING PLAN
SL-402	312079	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE SIGNAGE DETAILS
SS-400	312080	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SNOW STORAGE PLAN
SD-401 SD-402	312081 312082	NEW BEDFORD MAIN LINE  NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE DETAILS 1  NEW BEDFORD STATION, SITE DETAILS 2
SD-403	312083	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE DETAILS 3
SD-404	312084	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE DETAILS 4
SD-405	312085	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE DETAILS 5
SD-406	312086	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE DETAILS 6
SD-407	312087	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE DETAILS 7
SD-408 SD-409	312088 312089	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE DETAILS 8
<del></del>	012009	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SITE DETAILS 9
LANDSCAPE			
LD-401	312092	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LANDSCAPE PLAN 1
LD-402	312093	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LANDSCAPE PLAN 2
(LD-403)	312094	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LANDSCAPE DETAILS
ARCHITECTURAL			
AR-400A	312095	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, ARCH NOTES, LEGEND AND ABBREVIATIONS
AR-400B	312096	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CODE SUMMARY & LIFE SAFETY
AR-400C	312097	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CODE EGRESS PLAN
AR-400D	312098	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, MOCK-UP DIAGRAM
AR-401	312099	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, ARCHITECTURAL SITE PLAN
AR-402	312100	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, PERSPECTIVE VIEWS & MATERIALS
AR-403 AR-404	312101 312102	NEW BEDFORD MAIN LINE  NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CANOPY PLANS & ELEVATIONS  NEW BEDFORD STATION, CANOPY REFLECTED CEILING PLANS
AR-404 AR-405	312102	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CANOPY REFLECTED CEILING PLANS  NEW BEDFORD STATION, BIKE SHELTER PLAN, SECTIONS & DETAILS
AR-406	312104	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CANOPY CONDUIT DIAGRAM
AR-407	312105	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, STAIR & RAMP PLANS, SECTIONS, ELEV.
AR-410	312106	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CANOPY SECTIONS & ENLARGED ELEVATION
AR-411	312107	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, ENLARGED CANOPY SECTIONS
AR-412	312108	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, VMS SUPPORT & PLATFORM DETAILS
AR-413 AR-414	312109 312110	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CANOPY DETAILS  NEW BEDFORD STATION, GUARDRAIL ELEVATIONS
AR-414 AR-415	312110	NEW BEDFORD MAIN LINE  NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, GUARDRAIL ELEVATIONS  NEW BEDFORD STATION, STAIR & RAILING DETAILS
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AR-416	312112	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, MISC. DETAILS
AR-430	312113	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SIGNAGE PLAN
AR-431	312114	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SIGNAGE TYPES 1
AR-432	312115	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SIGNAGE TYPES 2
AR-433	312116	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SIGN FRAME & BENCH DETAILS
AR-434	312117	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SIGN FRAME ELEVATIONS & SECTIONS
AR-435	312118	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SIGN DETAILS
AR-436	312119	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LOLLIPOP SIGN
STRUCTURAL			
ST-401	312123	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, STRUCTURAL GENERAL NOTES 1 OF 2
ST-402	312124	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, STRUCTURAL GENERAL NOTES 2 OF 2
ST-403	312125	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, PLATFORM SITE PLAN
ST-404	312126	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, FOUNDATION PLAN 1 OF 4
ST-405	312127	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, FOUNDATION PLAN 2 OF 4
ST-406	312128	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, FOUNDATION PLAN 3 OF 4
ST-407	312129	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, FOUNDATION PLAN 4 OF 4
ST-408	312130	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, PLATFORM PLAN 1 OF 2
ST-409	312131	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, PLATFORM PLAN 2 OF 2
ST-410	312132	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SUBSTRUCTURE DETAILS 1 OF 5
ST-411	312133	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SUBSTRUCTURE DETAILS 2 OF 5
ST-412	312134	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SUBSTRUCTURE DETAILS 3 OF 5
ST-413	312135	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SUBSTRUCTURE DETAILS 4 OF 5
ST-414	312136	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SUBSTRUCTURE DETAILS 5 OF 5
ST-415	312137	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, MICROPILE DETAILS
ST-416	312138	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, PLATFORM DETAILS 1 OF 3
ST-417	312139	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, PLATFORM DETAILS 2 OF 3
ST-418	312140	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, PLATFORM DETAILS 3 OF 3
ST-419	312141	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CANOPY ROOF PLAN
ST-420	312142	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CANOPY DETAILS 1 OF 3
ST-421	312143	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CANOPY DETAILS 2 OF 3
ST-422	312144	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CANOPY DETAILS 3 OF 3
ST-423	312145	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, MISCELLANEOUS DETAILS
ST-424	312146	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, BIKE SHELTER DETAILS
ST-425	312147	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SIGN SUPPORT DETAILS 1 OF 3
ST-426	312148	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SIGN SUPPORT DETAILS 2 OF 3
ST-427	312149	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, SIGN SUPPORT DETAILS 3 OF 3
31-421	312149	NEW BEDFORD MAIN LINE	NEW BEBLOND STATION, SIGN SOLT ON BETALES SOLTS
PLUMBING			
PL-401	312151	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION PLUMBING SITE PLAN
1 2 401	012101	NEW BEBT OND WATER EINE	NEW BEBLOND OF MICH LOWBING SHETE MY
ELECTRICAL			
EL-401	312152	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, ELECTRICAL LEGEND, SYMBOLS
EL-402			
EL-403		NEW BEDFORD MAIN LINE	NEW BEDFORD STATION. NOTES & ABBREVIATIONS
	312153	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, NOTES & ABBREVIATIONS  NEW BEDFORD STATION, LIGHTING SITE PLAN
FI -404	312153 312154	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN
EL-404	312153 312154 312155	NEW BEDFORD MAIN LINE NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN NEW BEDFORD STATION, LIGHTING CANOPY PLAN
EL-405	312153 312154 312155 312156	NEW BEDFORD MAIN LINE  NEW BEDFORD MAIN LINE  NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN
EL-405 EL-470	312153 312154 312155 312156 312157	NEW BEDFORD MAIN LINE  NEW BEDFORD MAIN LINE  NEW BEDFORD MAIN LINE  NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1
EL-405 EL-470 EL-471	312153 312154 312155 312156 312157 312158	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2
EL-470 EL-471 EL-472	312153 312154 312155 312156 312157 312158 312159	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3
EL-405 EL-470 EL-471 EL-472 EL-480	312153 312154 312155 312156 312157 312158 312159 312160	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS
EL-405 EL-470 EL-471 EL-472	312153 312154 312155 312156 312157 312158 312159	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490	312153 312154 312155 312156 312157 312158 312159 312160	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490	312153 312154 312155 312156 312157 312158 312159 312160 312161	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS CM-400	312153 312154 312155 312156 312157 312158 312159 312160 312161	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490 COMMUNICATIONS CM-400 CM-401	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312164	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS CM-400 CM-401 CM-402	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS CM-400 CM-401 CM-402 CM-403	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS CM-400 CM-401 CM-402 CM-403 CM-404	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS CM-400 CM-401 CM-402 CM-403 CM-404 CM-405	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168 312168	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, CCTV-INTERCOM INTERCONNECT
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168 312169 312170	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, CCTV-INTERCOM INTERCONNECT  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168 312169 312170 312171	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, CCTV-INTERCOM INTERCONNECT  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS  CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312166 312167 312168 312170 312171 312172	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, CCTV-INTERCOM INTERCONNECT  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, NVR CCTV STORAGE
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168 312169 312170 312171 312172 312173	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, CCTV-INTERCOM INTERCONNECT  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, NVR CCTV STORAGE  NEW BEDFORD STATION, NVR CCTV & CAAP SCHEDULE
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168 312169 312170 312171 312172 312173 312174	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, NVR CCTV STORAGE  NEW BEDFORD STATION, CCTV & CAAP SCHEDULE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS  CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410 CM-411	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312166 312167 312168 312170 312171 312172 312173 312174 312175	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, NVR CCTV STORAGE  NEW BEDFORD STATION, CCTV & CAAP SCHEDULE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 2
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS  CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410 CM-411 CM-412	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168 312169 312170 312171 312172 312173 312174 312175 312176	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, CCTV & CAAP SCHEDULE  NEW BEDFORD STATION, CCTV & CAAP SCHEDULE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410 CM-411 CM-412 CM-420	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168 312169 312170 312171 312172 312173 312174 312175 312176 312176 312176	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, CCTV-INTERCOM INTERCONNECT  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, NYR CCTV STORAGE  NEW BEDFORD STATION, CCTV & CAAP SCHEDULE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 2  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS  CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410 CM-411 CM-412 CM-420 CM-420 CM-421	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168 312169 312170 312171 312172 312173 312174 312175 312176 312177 312178	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, NVR CCTV STORAGE  NEW BEDFORD STATION, CCTV & CAAP SCHEDULE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 2  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, KEY PLAN  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 1
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS  CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410 CM-411 CM-412 CM-420 CM-421 CM-422	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168 312169 312170 312171 312172 312173 312174 312175 312176 312177 312178 312178 312179	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, CCTV-STORAGE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 2  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 1  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 1
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410 CM-411 CM-412 CM-420 CM-421 CM-422 CM-423	312153 312154 312155 312156 312157 312158 312159 312160 312161  312164 312165 312166 312167 312168 312169 312170 312171 312172 312173 312174 312175 312176 312177 312178 312178 312179 312180	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, CCTV & CAAP SCHEDULE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 2  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 1  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 1  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 1
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS  CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410 CM-411 CM-412 CM-422 CM-420 CM-421 CM-422 CM-423 CM-424	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168 312169 312170 312171 312172 312173 312174 312175 312176 312177 312178 312179 312180 312181	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, CCTV-INTERCOM INTERCONNECT  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, NYR CCTV STORAGE  NEW BEDFORD STATION, CCTV- & CAAP SCHEDULE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 1  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 2  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 3  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 3
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS  CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410 CM-411 CM-412 CM-422 CM-420 CM-421 CM-422 CM-423 CM-424 CM-425	312153 312154 312155 312156 312157 312158 312159 312160 312161  312164 312165 312166 312167 312168 312169 312170 312171 312172 312173 312174 312175 312176 312177 312178 312178 312179 312180	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, CCTV-INTERCOM INTERCONNECT  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, NYR CCTV STORAGE  NEW BEDFORD STATION, CCTV & CAAP SCHEDULE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 1  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 2  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 3  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 5
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS  CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410 CM-411 CM-412 CM-420 CM-421 CM-422 CM-423 CM-424	312153 312154 312155 312156 312157 312158 312159 312160 312161 312164 312165 312166 312167 312168 312169 312170 312171 312172 312173 312174 312175 312176 312177 312178 312179 312180 312181	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, CCTV-INTERCOM INTERCONNECT  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, NYR CCTV STORAGE  NEW BEDFORD STATION, CCTV- & CAAP SCHEDULE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 1  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 2  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 3  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 3
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS  CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410 CM-411 CM-412 CM-422 CM-420 CM-421 CM-422 CM-423 CM-424 CM-425 CM-426 CM-427	312153 312154 312155 312156 312157 312158 312159 312160 312161  312164 312165 312166 312167 312168 312169 312170 312171 312172 312173 312174 312175 312176 312176 312177 312178 312179 312180 312181 312182	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, GENERAL NOTES  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, NOR CCTV STORAGE  NEW BEDFORD STATION, CCTV & CAAP SCHEDULE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 2  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 1  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 2  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 3  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 5  NEW BEDFORD STATION, CONDUIT AND CABLES LAYOUT 1
EL-405 EL-470 EL-471 EL-472 EL-480 EL-490  COMMUNICATIONS  CM-400 CM-401 CM-402 CM-403 CM-404 CM-405 CM-406 CM-407 CM-408 CM-409 CM-410 CM-411 CM-412 CM-420 CM-421 CM-422 CM-423 CM-424 CM-425 CM-426	312153 312154 312155 312156 312157 312158 312159 312160 312161  312164 312165 312166 312167 312168 312169 312170 312171 312172 312173 312174 312175 312176 312177 312178 312178 312179 312180 312181 312182 312183	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHTING SITE PLAN  NEW BEDFORD STATION, LIGHTING CANOPY PLAN  NEW BEDFORD STATION, POWER SITE PLAN  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 1  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 2  NEW BEDFORD STATION, ELECTRICAL DETAILS SHEET 3  NEW BEDFORD STATION, ELECTRICAL SCHEDULES AND RISERS  NEW BEDFORD STATION, ELECTRICAL SITE PHOTOMETRICS  NEW BEDFORD STATION, SEREAL NOTES  NEW BEDFORD STATION, SYMBOLS AND ABBREVIATIONS  NEW BEDFORD STATION, SYSTEMS BLOCK DIAGRAM  NEW BEDFORD STATION, PROPOSED FIBER OPTIC NETWORK  NEW BEDFORD STATION, PHONE DATA ONE-LINE DIAGRAM & SCHEDULE  NEW BEDFORD STATION, CCTV-INTERCOM INTERCONNECT  NEW BEDFORD STATION, ACCESS CONTROL ONE-LINE DIAGRAM  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, PA-VMS INTERCONNECT  NEW BEDFORD STATION, CCTV & CAAP SCHEDULE  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 1  NEW BEDFORD STATION, COMMUNICATIONS HOUSE DETAILS 2  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, COMMUNICATIONS PLATFORM CABINET  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 1  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 3  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 5  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 5  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 5  NEW BEDFORD STATION, EQUIPMENT LAYOUT SHEET 5

CM-430	312187	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CONDUIT AND CABLES LAYOUT 5	
CM-431	312188	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CAMERA FIELD OF VIEW 1	1
CM-432	312189	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CAMERA FIELD OF VIEW 2	1
CM-433	312190	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CAMERA FIELD OF VIEW 3	ME
CM-434	312191	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CAMERA FIELD OF VIEW 4	9:12
CM-435	312192	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, CAMERA FIELD OF VIEW 5	
CM-460	312193	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, PHONE & DATA TYPICAL	2020
CM-461	312194	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, EMERGENCY TELEPHONE SHEET 1	16,
CM-462	312195	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, EMERGENCY TELEPHONE SHEET 2	April 16,
CM-463	312196	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, COMM HOUSE EQUIPMENT MOUNTING	
CM-464	312197	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, AERIAL MESSENGER TYPICAL	
CM-465	312198	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, PLATFORM EQUIPMENT DETAILS	Plotted on
CM-466	312199	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, LIGHT POLE EQUIPMENT DETAIL	
CM-467	312200	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL CONDUIT INSTALLATION DETAIL 1	
CM-468	312201	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL CONDUIT INSTALLATION DETAIL 2	
CM-469	312202	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL CONDUIT INSTALLATION DETAIL 3	
CM-470	312203	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL CONDUIT INSTALLATION DETAIL 4	
CM-471	312204	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL CONDUIT INSTALLATION DETAIL 5	
CM-472	312205	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, POLE MOUNT CABINET	
CM-473	312206	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL CAMERA MOUNTING SHEET 1	
CM-474	312207	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL CAMERA MOUNTING SHEET 2	
CM-475	312208	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL CAMERA MOUNTING SHEET 3	
CM-476	312209	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL CAMERA MOUNTING SHEET 4	
CM-477	312210	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL CAMERA POLE FOUNDATION DETAIL	
CM-478	312211	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL ACCESS CONTROL DETAIL SHEET 1	
CM-479	312212	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL VMS SIGN DETAIL SHEET 1	
CM-480	312213	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL VMS SIGN DETAIL SHEET 2	
CM-481	312214	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL PA DETAILS	
CM-482	312215	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL SPEAKER DETAILS	
CM-483	312216	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL RACK SHEET 1	
CM-484	312217	NEW BEDFORD MAIN LINE	NEW BEDFORD STATION, TYPICAL RACK SHEET 2	╝
				-1

## **ISSUED FOR BID**





VERT: NONE

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

### **NEW BEDFORD MAIN LINE NEW BEDFORD STATION INDEX SHEET**

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ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	F
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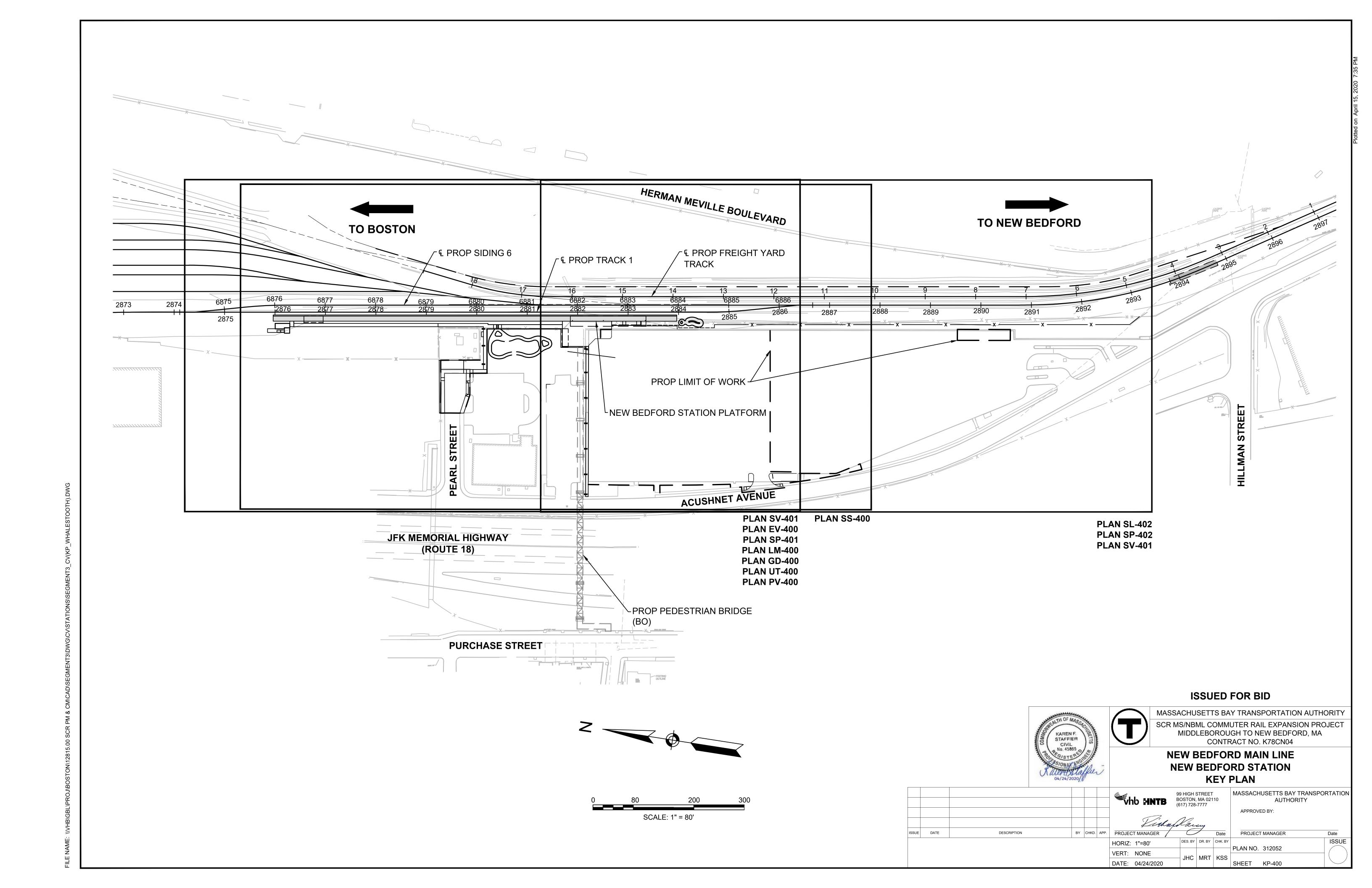
vno	HNTB	(617) 728-7777
	Tida	Sarry

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY 99 HIGH STREET
BOSTON, MA 02110 APPROVED BY:

ISSUE

PROJECT MANAGER PROJECT MANAGER HORIZ: NONE

PLAN NO. 312051 JHC MAM KSS SHEET GN-401 DATE: 04/24/2020



- EACH PLAN IS PART OF A SET OF DRAWINGS AND SPECIFICATIONS, AND IS NOT TO BE USED AS A SOLE SOURCE OF INFORMATION.

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).
- THE CONTRACTOR SHALL COORDINATE ANY WORK IMPACTING RAILROAD PROPERTY AND / OR RIGHT-OF-WAY 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, WHICHEVER IS
- 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 SITE TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AS AMENDED UNLESS OTHERWISE NOTED.
- ALL PROPOSED GRANITE BOUNDS AND ANY EXISTING MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A PROFESSIONAL LAND SURVEYOR (PLS) LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS.
- 10. 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 BY U.S.G.S., MASSDOT, OR OTHER APPLICABLE AUTHORITY. 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 RESPECTIVE AUTHORITY. ANY DAMAGE TO TOWN BOUNDS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER 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.
- CONTRACTOR SHALL INSTALL APPROVED EROSION CONTROL MEASURES PRIOR TO EARTHWORK OPERATION AND MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION. EROSION CONTROL SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
- 12. TEMPORARY CONSTRUCTION EASEMENT AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITIONS UNLESS OTHERWISE NOTED.
- I3. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL, MAINTAIN, AND REMOVE APPROVED EROSION CONTROL MEASURES AROUND CATCH BASIN FRAMES AND GRATES TO PREVENT RUNOFF SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM DURING CONSTRUCTION.
- CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO WETLAND RESOURCE AREAS AND OFFSITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO ADDITIONAL COST TO THE PROJECT.
- 15.  $\,$  THIS PROJECT DISTURBS MORE THAN ONE ACRE OF LAND AND FALLS WITHIN THE NPDES CONSTRUCTION GENERAL PERMIT (CGP) PROGRAM AND EPA JURISDICTION. PRIOR TO THE START OF CONSTRUCTION CONTRACTOR IS TO FILE A CGP NOTICE OF INTENT WITH THE EPA AND PREPARE A STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE NPDES REGULATIONS. CONTRACTOR SHALL CONFIRM THE OWNER HAS ALSO FILED A NOTICE OF INTENT WITH THE EPA.
- CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- 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 ADDITIONAL COST TO THE PROJECT.
- 18. ALL AREAS DISTURBED DURING CONSTRUCTION EXCEPT PAVEMENT AND STRUCTURES SHALL RECEIVE LOAM AND SEEDING PER THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 9. TREES AND SHRUBS OUTSIDE THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
- 20. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH HOT POURED RUBBERIZED ASPHALT SEALER AND BACKSANDED. SAWCUT SHALL BE VERTICAL. STRAIGHT. AND NOT IRREGULAR.
- DIMENSIONS ARE FROM FACE OF CURB, FACE OF WALL, AND CENTERLINE OF PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.
- 22. ALL CHAIN LINK FENCE SHALL BE TYPE I GALVANIZED STEEL, 6 (SIX) FEET IN HEIGHT, UNLESS OTHERWISE NOTED.
- 23. IN THESE PLANS, THE TERM "NOT IN CONTRACT " (NIC) SHALL BE UNDERSTOOD TO MEAN WORK DONE BY OTHERS CONTRACTED AND COMPLETED AHEAD OF THIS CONTRACT. INFORMATION SHOWN ON THESE PLANS IS BASED ON DESIGN INFORMATION. THE CONTRACTOR SHALL VERIFY AS-BUILTS AND/OR SITE CONDITIONS PRIOR TO CONSTRUCTION IN AREAS LABELED AS SUCH.
- 24. IN THESE PLANS, THE TERM "BY OTHERS" (BO) SHALL BE UNDERSTOOD TO MEAN WORK DONE BY OTHERS THAT IS COINCIDENT TO, OR TO BE DONE AFTER, WORK ISSUED UNDER THIS CONTRACT. CONTRACTOR SHALL COORDINATE WITH ADJACENT AND INTERSECTING CONTRACTS AS REQUIRED TO COMPLETE WORK ISSUED UNDER THIS CONTRACT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS WITHOUT PRECLUDING THE COMPLETION OF SAID CONTRACTS.
- THE CONTRACTOR IS RESPONSIBLE FOR DESIGN AND IMPLEMENTATION OF ANY REQUIRED EXCAVATION SUPPORT NECESSARY FOR CONSTRUCTION OF THE PROJECT IN ACCORDANCE WITH SPECIFICATION SECTION 02260.

#### SITE PREPARATION

- CONTRACTOR SHALL CLEAR AND GRUB ALL EXISTING VEGETATED AREAS WITHIN LIMIT OF WORK.
- 2. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUT NOT LIMITED TO BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- 3. MAINTAIN EXISTING DRAINAGE SYSTEM DURING ALL CONSTRUCTION ACTIVITIES.
- DEMOLITION TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL BUILDING CODE.
- 5. ALL DEMOLITION 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.
- 7. UNLESS OTHERWISE NOTED, 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. EXISTING WATER, SEWER, AND DRAINAGE MAINS TO BE RETAINED AND PROTECTED WHERE NOTED.
- CONTRACTOR SHALL RELOCATE EROSION CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND STABILIZED CONSTRUCTION SITE ENTRANCE/EXIT) AS NEEDED TO PROTECT ANY ADJOINING STRUCTURES AND SAFEGUARD THE NEIGHBORING AREAS (INCLUDING WETLAND RESOURCE AREAS) FROM DUST AND DEBRIS.
- ALL EXISTING RETAINING WALLS, FOUNDATIONS, COLUMNS, GRADE BEAMS, GRADE SLABS, ETC. SHALL BE DEMOLISHED UP TO 2' BELOW THE PROPOSED FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS.
- 10. THE DEMOLITION LIMITS/LIMIT OF WORK DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. ANY ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING EXECUTION OF THE WORK SHALL BE BROUGHT TO THE ENGINEER'S IMMEDIATE ATTENTION AND, IF APPROVED, COMPENSATED PER THE ALLOWANCE ITEM.
- 11. UNLESS OTHERWISE PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSIBLY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOXIC WASTE OR POLLUTANTS AT THE PROJECT SITE. ANY ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORSEEN OR LATENT SITE CONDITIONS RELATED TO ANY CONDITIONS DISCOVERED DURING THE WORK SHALL BE BROUGHT TO THE ENGINEER'S IMMEDIATE ATTENTION AND, IF APPROVED, COMPENSATED FOR THE ALLOWANCE ITEM.
- 12. EROSION CONTROL LIMITS SHALL BE CONSIDERED THE LIMIT OF WORK, UNLESS OTHERWISE NOTED

#### <u>UTILITIES</u>

- 1. 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 AT 811 OR 1-888-344-7233 AND SHALL COORDINATE LOCATION OF NON "DIG SAFE" MEMBER UTILITIES WITHIN THE TIME FRAME SPECIFIED BY THE UTILITY OWNER.
- 2. 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.
- 3. 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.
- 4. FIELD VERIFY EXISTING MANHOLE AND CATCH BASIN INVERTS AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ENGINEER PRIOR TO START OF ANY GRAVITY UTILITY INSTALLATION.
- 5. ALL EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE AND/OR 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.
- 6. 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 BID FOR THE ITEM BEING INSTALLED.
- 7. EXISTING UTILITIES TO BE RELOCATED SHALL BE VERIFIED WITH RESPECTIVE CONTROLLING AUTHORITY AS TO THEIR FINAL DISPOSITION
- 8. 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
- 9. ALL UTILITY SURFACE CASTINGS (COVERS, GRATES, GATE BOXES, ETC.) TO REMAIN SHALL BE ADJUSTED TO THE NEW SURFACE GRADE AS REQUIRED PER MASSDOT STANDARD SPECIFICATIONS 201.62 LAYING BRICKS AND BLOCKS AND PER 201.63 PLACING CASTINGS, WHETHER OR NOT CALLED FOR ON THE PLANS.
- 10. 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.
- 11. 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 NO ADDITIONAL COST TO THE PROJECT. REFER TO MASSDOT SECTION 150.64.C.
- 12. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
- 13. CONTRACTOR SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL AND COMMUNICATION RELATED SITE WORK ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLE BASES, AND CONCRETE PADS. CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.

- 14. GAS INSTALLATION
- A. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GAS PIPE TRENCHING, SAND BEDDING PROCUREMENT, BACKFILL OF TRENCH AND PERMANENT RESTORATION FOR GAS WORK PER THE UTILITY PROVIDER REQUIREMENTS.
- B. UTILITY COMPANY SHALL BE RESPONSIBLE FOR PLACEMENT OF SAND BEDDING MATERIAL, CARRIER PIPE PROCUREMENT AND INSTALLATION, SERVICE CONNECTIONS AT THE MAIN AND METER, PROCUREMENT AND INSTALLATION OF THE METER, TESTING AND COMMISSIONING AND ABANDONMENT OF THE EXISTING GAS LINE (IF APPLICABLE).
- C. UTILITY COMPANY SHALL BE RESPONSIBLE FOR ALL GAS LINE PERMITTING, PROCUREMENT, INSTALLATION, PAVEMENT RESTORATION, ETC. FOR GAS LINE INSTALLATION WITHIN PUBLIC RIGHT OF WAY.
- 15. GRAVITY PIPE LENGTHS AND INVERTS SHOWN ARE TO INSIDE EDGE OF STRUCTURE. ASSUMING A 4' INTERIOR DIAMETER. ALL GRAVITY STRUCTURE INTERIOR DIAMETERS (4' MIN.) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND GREATER, THE MINIMUM DIAMETER SHALL BE 5 FEET.

#### **EXISTING CONDITIONS**

- 1. 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, MA, AND COAST GUARD STATION (ACU6) IN ACUSHNET, MA. COORDINATE VALUES WERE DERIVED USING STATIC METHODS BASED ON VARIOUS COMBINATIONS OF THE AFOREMENTIONED CORS STATIONS.
- 2. 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 REFERENCED IN NOTE 1
- 3. RAILROAD RIGHT-OF-WAY LINES THAT ARE SHOWN WITH BEARINGS AND DISTANCES TO THE HUNDREDTH OF A FOOT, WERE CALCULATED BY BRYANT ASSOCIATES, INC., 90 CANAL STREET, SUITE 301, BOSTON, MA 02114 (617)248-0300 AND VANASSE HANGEN BRUSTLIN INC. (VHB), 99 HIGH STREET, 10TH FLOOR, BOSTON, MA 02110 (617)728-7777 FROM AN ON THE GROUND SURVEY. DISTANCES ON LINES THAT ARE SHOWN AS PLUS OR MINUS WERE COMPILED FROM EXISTING RECORD PLAN AND DEED DATA AND ARE APPROXIMATE ONLY. GENERICALLY AND WITH SOME EXCEPTIONS. BRYANT HAS PRODUCED THE DATA NORTH OF COTLEY JUNCTION TO MYRICK'S JUNCTION ON THE NEW BEDFORD MAINLINE, SOUTH OF MYRICK'S JUNCTION ON THE FALL RIVER SECONDARY TO THE TERMINUS IN FALL RIVER, THE MIDDLEBOROUGH SECONDARY EAST OF COTLEY JUNCTION TO AND INCLUDING PORTIONS OF PILGRIM JUNCTION. VHB HAS PRODUCED THE DATA SOUTH OF MYRICK'S JUNCTION ON THE NEW BEDFORD MAINLINE TO THE TERMINUS IN NEW BEDFORD, EAST TAUNTON STATION AND MIDDLEBOROUGH STATION. THE RAILROAD ROW RESEARCH, FIELD SURVEYED MONUMENTS AND THE ROW DETERMINATIONS WERE PERFORMED THROUGHOUT THE DURATION OF THE PROJECT, STARTING IN 2010 AND CONTINUING THROUGH 2019.
- 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 COTLEY 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 MYRICK'S 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. THE AERIAL PHOTOGRAPHY WAS OBTAINED IN 2015. THE AERIAL MAPPING HAS BEEN AUGMENTED THROUGH A GROUND SURVEY PERFORMED THROUGHOUT THE DURATION OF THE PROJECT, STARTING IN 2014 AND CONTINUING THROUGH 2019
- 5. FOR GEOTECHNICAL REPORT, SEE SPECIFICATIONS.
- 6. THE SURFACE EVIDENCE OF THE UTILITIES SHOWN HAS BEEN LOCATED BY FIELD SURVEY, UNLESS NOTED OTHERWISE. THE LINEWORK REPRESENTING 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.
- 7. WETLAND BOUNDARIES WERE DELINEATED AND SURVEYED IN 2012. AND SUPPLEMENTED IN 2015 THROUGH 2019.
- 8. THE CONTRACTOR SHALL CONFIRM EXISTING CONDITIONS AND REPORT ALL DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ENGINEER.

#### **ISSUED FOR BID**





MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

**NEW BEDFORD MAIN LINE NEW BEDFORD STATION** CIVIL GENERAL NOTES

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PROJECT MANAG	APP.	CHKD.	BY	DESCRIPTION	DATE

MASSACHUSETTS BAY TRANSPORTATION **BOSTON, MA 02110** AUTHORITY (617) 728-7777 APPROVED BY

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APP.	PROJECT MANAGER	-	—	Date	PROJECT MANAGER	Dat
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	VERT: NONE				PLAN NO. 312053	(

SHEET CN-401 DATE: 04/24/2020

ABBREVIATIONS (cont.)

VERTICAL GRANITE CURB WHEEL CHAIR RAMP WATER GATE WARNING INDICATOR

WROUGHT IRON PIPE WATER METER/WATER MAIN WATER MANHOLE WATER QUALITY STRUCTURE

**CROSS SECTION** 

#### **ENVIRONMENTAL ABBREVIATIONS**

BANK FLAG

BORDERING LAND SUBJECT TO FLOODING BORDERING VEGETATED WETLANDS

**CERTIFIED VERNAL POOL** LAND SUBJECT TO COASTAL STORM FLOWAGE

LAND UNDER WATER RIVERFRONT AREA WETLAND FLAG

WETLAND

## CIVIL (CV) SHEET ABBREVIATIONS

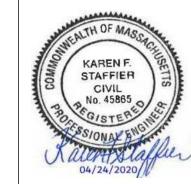
KEY PLAN

**EXISTING CONDITION PLAN** SITE PREPARATION PLAN LAYOUT AND MATERIALS PLAN GRADING AND UTILITY PLAN PAVEMENT PLAN SITE SIGNAGE PLAN

SNOW STORAGE PLAN SITE DETAIL PLAN LANDSCAPE PLAN

TEMPORARY TRAFFIC CONTROL PLAN

#### **ISSUED FOR BID**



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

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NEW BEDFORD MAIN LINE **NEW BEDFORD STATION CIVIL ABBREVIATIONS SHEET** 

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nb	HNTB	99 HIGH STREET BOSTON, MA 02110 (617) 728-7777	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
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Date PROJECT MANAGER DES. BY DR. BY CHK. BY HORIZ: NONE PLAN NO. 312054 VERT: NONE DATE: 04/24/2020 SHEET CN-402

DATE: 04/24/2020

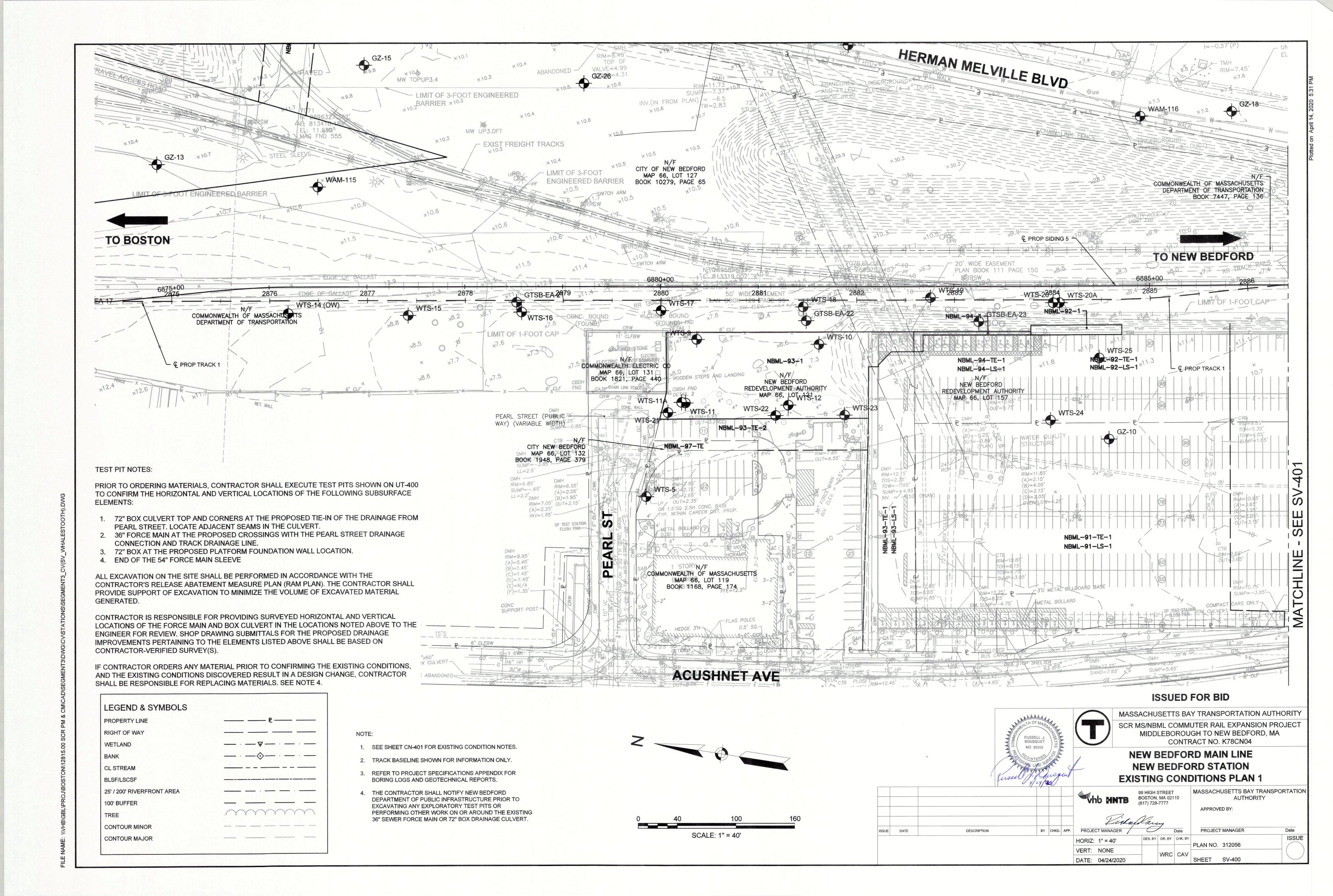
SHEET CN-403

**GENERAL SYMBOLS** 

\_E NAME: \\VHB\GBL\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\CV\STATIONS\SEGMENT3\_4\_6\_C\

**GENERAL SYMBOLS** 

200 FT RIVERFRONT BUFFER



FILE NAME: \\\VHB\GBL\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DVVG\CV\STATIONS\SEGMENT3\_CV(SV\_VHALES

**LEGEND & SYMBOLS** 

25' / 200' RIVERFRONT AREA

PROPERTY LINE

RIGHT OF WAY

WETLAND

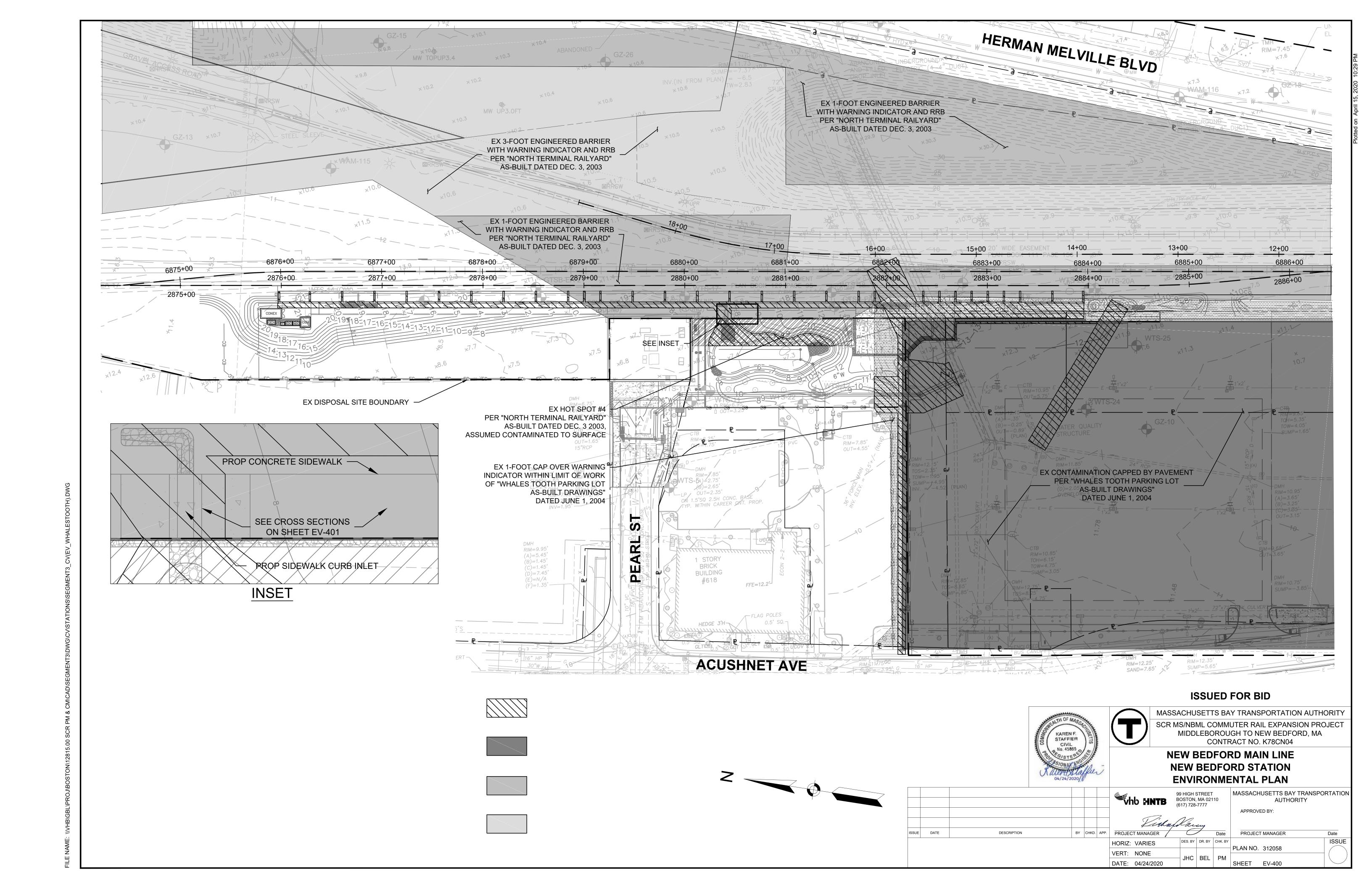
CL STREAM

BLSF/LSCSF

100' BUFFER

CONTOUR MINOR

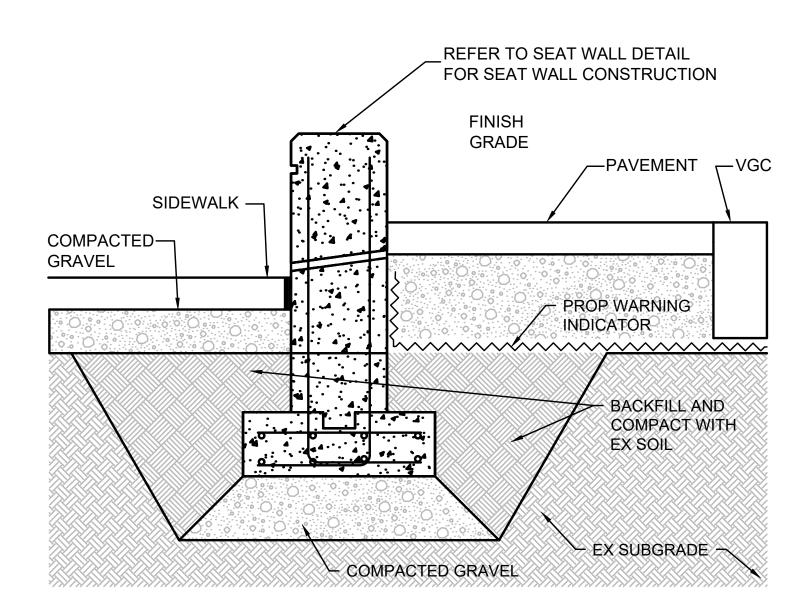
CONTOUR MAJOR



1. CONTRACTOR TO OVERLAP RISK REDUCTION BARRIER (RRB) AND WARNING INDICATOR (WI) BY A MINIMUM OF 12". RRB TO BE CONNECTED THROUGH ADHESIVE OR DOUBLE STITCHED.

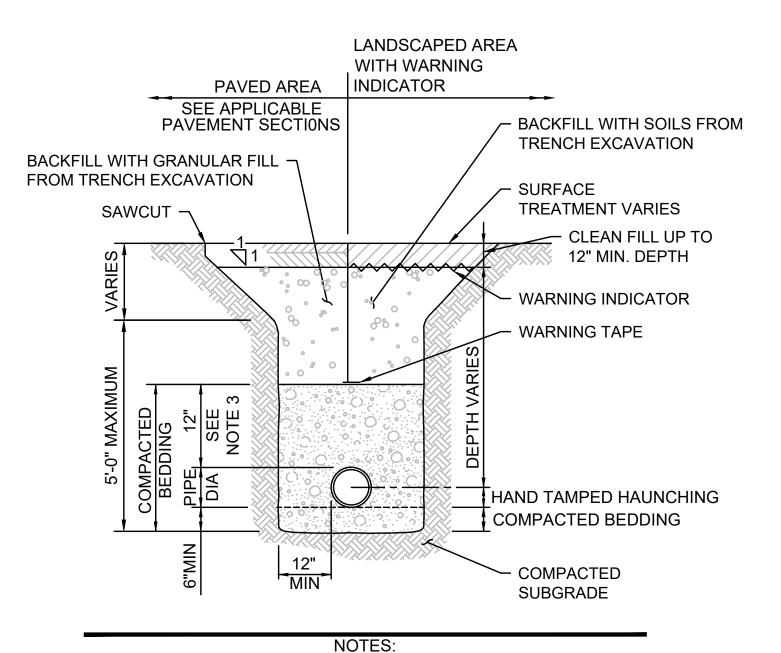
## SECTION B-B: CONCRETE SIDEWALK WITH PRETREATMENT FILTER STRIP IN ENGINEERED BARRIER SECTION

SCALE: N.T.S.



**SEAT WALL IN CONTAMINATED SOIL** 

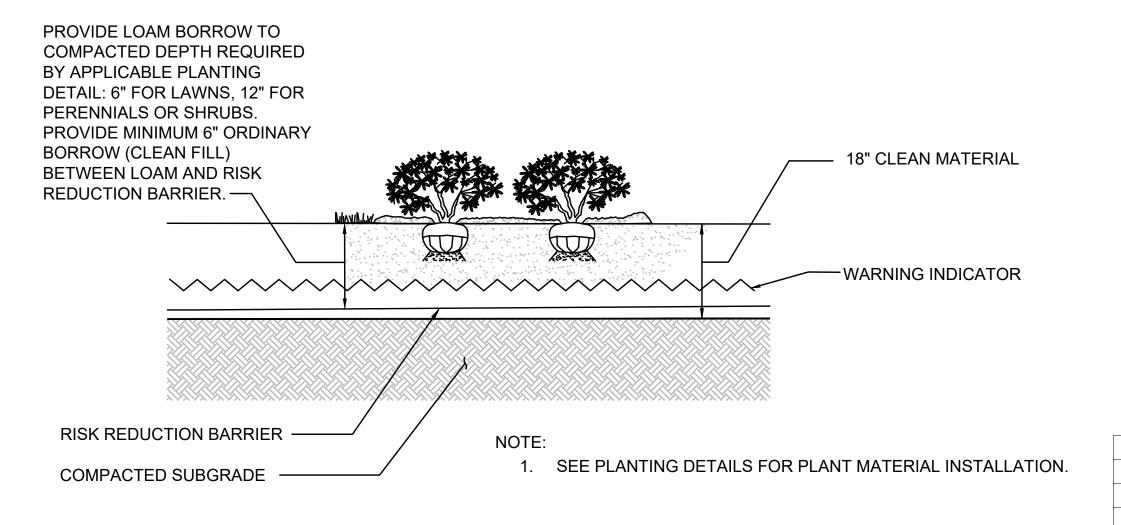
SCALE: N.T.S.



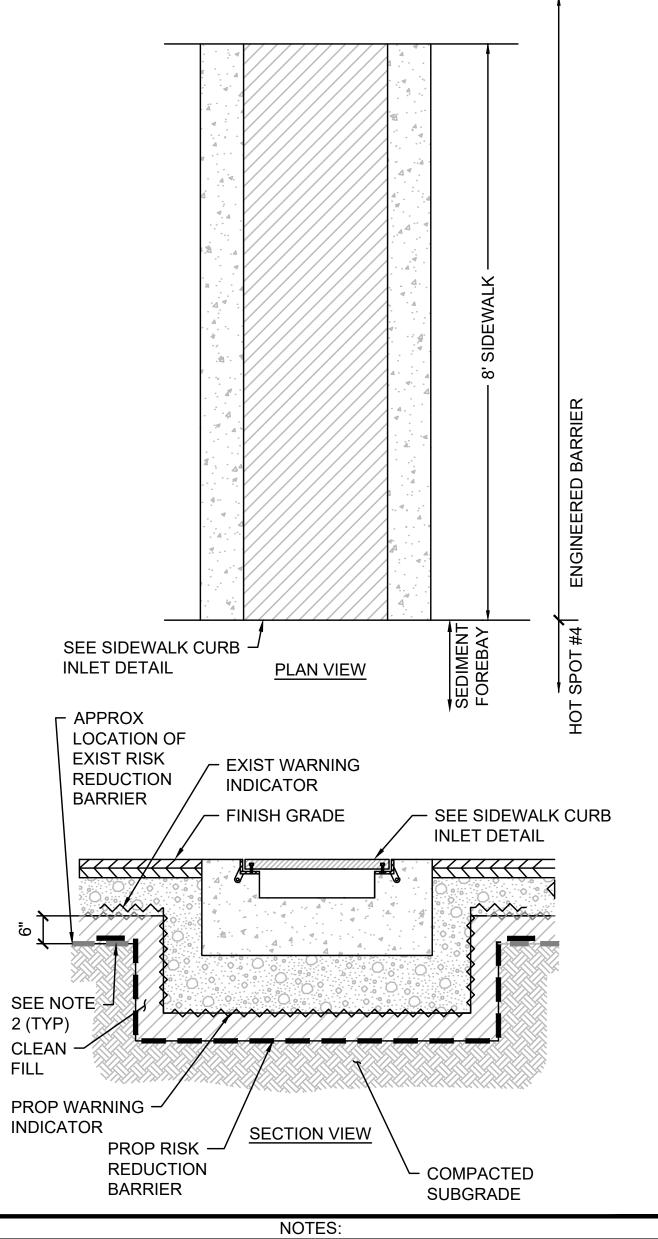
- 1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
- 2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
- 3. FOR HDPE PIPE, DIMENSION IS 24 INCHES.

#### **UTILITY TRENCH - CONTAMINATED SOIL**

SCALE: N.T.S.



#### LANDSCAPING IN ENGINEERED BARRIER SECTION

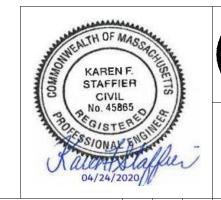


CONTRACTOR TO OVERLAP RISK REDUCTION BARRIER (RRB) AND WARNING INDICATOR (WI) A MINIMUM OF 12". RRB TO BE CONNECTED THROUGH ADHESIVE OR DOUBLE STITCHED.

#### **SECTION A-A: SIDEWALK CURB INLET IN ENGINEERED BARRIER SECTION**

SCALE: N.T.S.





MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

> **NEW BEDFORD MAIN LINE NEW BEDFORD STATION ENVIRONMENTAL DETAILS**

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Ε	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER
						HORIZ: NONE

MASSACHUSETTS BAY TRANSPORTATION BOSTON, MA 02110 (617) 728-7777 AUTHORITY APPROVED BY:

Maf Nanny PROJECT MANAGER Date ISSUE PLAN NO. 312059 DATE: 04/24/2020 SHEET EV-401

THIS BASE PLAN ILLUSTRATES THE MINIMUM PERIMETER EROSION & SEDIMENTATION CONTROLS. THE CONTRACTOR'S BID SHALL INCLUDE ANY/ALL EROSION CONTROLS NEEDED TO CONTROL EROSION WITHIN THE PROJECT PER THE EPA CONSTRUCTION GENERAL PERMIT REQUIREMENTS AND PROJECT SPECIFICATIONS. THE SWPPP OPERATOR SHALL UPDATE THIS PLAN THROUGHOUT THE DURATION OF CONSTRUCTION TO SHOW THE LOCATIONS OF PROPOSED/CONSTRUCTED E&S CONTROLS DEEMED NECESSARY TO MEET THE REQUIREMENTS OF THE NPDES CGP.

#### PROJECT E&S NARRATIVE:

THE APPROXIMATELY 1.7 ACRE SITE WILL BE DEVELOPED AS A SINGLE-PHASE PROJECT. THE PROJECT DISTURBANCE EXCEEDS 1 ACRE THEREFORE IS SUBJECT TO THE REQUIREMENTS OF THE EPA CONSTRUCTION GENERAL PERMIT

#### **EROSION AND SEDIMENTATION TECHNIQUES**

THE EROSION AND SEDIMENTATION CONTROLS SHOWN HEREON ARE PERIMETER MEASURES ONLY AND ARE PROVIDED AS A STARTING POINT FOR CONTRACTOR'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR IS REQUIRED TO PROVIDE ADDITIONAL INTERIM EROSION AND SEDIMENTATION CONTROLS, INCLUDING BUT NOT LIMITED TO THOSE LISTED BELOW. THE CONTRACTOR SHALL MANAGE EROSION AND SEDIMENTATION DURING CONSTRUCTION TO PREVENT IMPACTS TO RESOURCE AREAS, ROADWAYS, AND ABUTTING PROPERTIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE EROSION AND SEDIMENTATION CONTROLS THROUGHOUT THE DURATION OF CONSTRUCTION.

#### CATCH BASIN PROTECTION

CONTRACTOR SHALL INSTALL APPROVED INLET PROTECTION IN NEWLY CONSTRUCTED AND EXISTING CATCH BASINS AND OTHER DRAINAGE AND MAINTAIN THROUGHOUT CONSTRUCTION.

#### GRAVEL AND CONSTRUCTION ENTRANCE/EXIT

A TEMPORARY CRUSHED-STONE CONSTRUCTION ENTRANCE/EXIT WILL BE CONSTRUCTED. A CROSS SLOPE WILL BE PLACED IN THE ENTRANCE TO DIRECT RUNOFF.

#### VEGETATIVE SLOPE STABILIZATION

STABILIZATION OF OPEN SOIL SURFACES WILL BE IMPLEMENTED WITHIN 14 DAYS AFTER GRADING OR CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, UNLESS THERE IS SUFFICIENT SNOW COVER TO PROHIBIT IMPLEMENTATION. VEGETATIVE SLOPE STABILIZATION WILL BE USED TO MINIMIZE EROSION ON SLOPES OF 3:1 OR FLATTER. ANNUAL GRASSES, SUCH AS ANNUAL RYE, WILL BE USED TO ENSURE RAPID GERMINATION AND PRODUCTION OF ROOT MASS. PERMANENT STABILIZATION WILL BE COMPLETED WITH THE PLANTING OF PERENNIAL GRASSES OR LEGUMES. ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED BY HYDRO-SEEDING OR SODDING. A SUITABLE TOPSOIL, GOOD SEEDBED PREPARATION, AND ADEQUATE LIME, FERTILIZER AND WATER WILL BE PROVIDED FOR EFFECTIVE ESTABLISHMENT OF THESE VEGETATIVE STABILIZATION METHODS. MULCH WILL ALSO BE USED AFTER PERMANENT SEEDING TO PROTECT SOIL FROM THE IMPACT OF FALLING RAIN AND TO INCREASE THE CAPACITY OF THE SOIL TO ABSORB WATER.

#### TEMPORARY SEDIMENT BASINS

TEMPORARY SEDIMENT BASINS WILL BE DESIGNED EITHER AS EXCAVATIONS OR BERMED STORMWATER DETENTION STRUCTURES (DEPENDING ON GRADING) THAT WILL RETAIN RUNOFF FOR A SUFFICIENT PERIOD OF TIME TO ALLOW SUSPENDED SOIL PARTICLES TO SETTLE OUT PRIOR TO DISCHARGE. THESE TEMPORARY BASINS WILL BE LOCATED BASED ON CONSTRUCTION NEEDS AS DETERMINED BY THE CONTRACTOR AND OUTLET DEVICES WILL BE DESIGNED TO CONTROL VELOCITY AND SEDIMENT. POINTS OF DISCHARGE FROM SEDIMENT BASINS WILL BE STABILIZED TO MINIMIZE EROSION. AT A MINIMUM, SEDIMENTATION BASINS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE STORAGE FOR THE VOLUME OF RUNOFF GENERATED FROM A 2-YR, 24-HR DESIGN STORM, OR AT LEAST 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINING TO THE BASIN.

#### STOCKPILE MANAGEMENT

SIDESLOPES OF STOCKPILED MATERIAL SHALL BE NO STEEPER THAN 2:1. STOCKPILES NOT USED WITHIN 30 DAYS NEED TO BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE. STRAW BALES AND SILT FENCE ARE TO BE PLACED AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM THE TOE OF SLOPE.

#### **DUST CONTROL**

PERIODICALLY MOISTEN EXPOSED SURFACES ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAY DAMP AND REDUCE DUST.

#### TEMPORARY EROSION AND SEDIMENTATION CONTROL MAINTENANCE (THROUGHOUT CONSTRUCTION)

THE SITE CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS. RECORDS OF THE INSPECTIONS WILL BE PREPARED AND MAINTAINED ON-SITE BY THE CONTRACTOR.

SILT SHALL BE REMOVED FROM BEHIND BARRIERS IF GREATER THAN 6-INCHES DEEP OR AS NEEDED

DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION.

SEDIMENT THAT IS COLLECTED IN STRUCTURES SHALL BE DISPOSED OF PROPERLY OR COVERED IF STORED ON-SITE.

EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN SECURELY STABILIZED. AFTER REMOVAL OF STRUCTURES, DISTURBED AREAS SHALL BE REGRADED AND STABILIZED AS SOON AS PRACTICAL.

MAINTAIN THE CONSTRUCTION ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES.

#### INFILTRATION AREA PROTECTION DURING CONSTRUCTION

FOR THE LONG-TERM FUNCTION OF THE INFILTRATION BASIN(S)/STRUCTURE(S), CARE SHALL BE TAKEN IN THE INFILTRATION AREAS DURING CONSTRUCTION THE CONTRACTOR SHALL EMPLOY THE FOLLOWING MINIMUM BEST MANAGEMENT PRACTICES (BMPs):

- 1. INFILTRATION AREAS SHALL NOT BE USED AS TEMPORARY CONSTRUCTION SEDIMENTATION BASINS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. IF INFILTRATION AREAS ARE USED AS TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION, THEN THE SOILS SHALL BE EXCAVATED A MINIMUM OF 2' FROM THE TEMPORARY BASIN BOTTOM TO REMOVE CLOGGED SOILS.
- 2. STORMWATER RUNOFF FROM EXPOSED SURFACES SHALL BE DIRECTED AWAY FROM THE INFILTRATION BASIN(S)/STRUCTURE(S) DURING CONSTRUCTION
- 3. CONSTRUCTION EQUIPMENT, VEHICULAR TRAFFIC, PARKING OF VEHICLES, AND STOCKPILING OF CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE OF THE INFILTRATION AREAS.
- 4. EXCAVATION FOR CONSTRUCTION OF THE INFILTRATION BASIN(S)/STRUCTURE(S) SHALL ENSURE THAT THE SOIL AT THE BOTTOM OF THE EXCAVATION IS NOT COMPACTED OR SMEARED
- 5. THE PERIMETER OF THE INFILTRATION AREAS SHALL BE STAKED AND FLAGGED TO PREVENT THE USE OF THE AREA FOR ACTIVITIES THAT MIGHT DAMAGE THE INFILTRATION ABILITY OF THE SYSTEM.

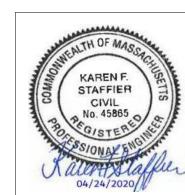
#### **SWPPP NOTES:**

- 1. THE QUANTITIES, SIZE, AND LOCATIONS OF EROSION/SEDIMENTATION CONTROL MEASURES (INCLUDING TEMPORARY SEDIMENTATION BASINS) SHOWN ON THIS SITE MAP ARE APPROXIMATE. THIS SITE PREPARATION PLAN, LIKE THE SWPPP, IS A DYNAMIC DOCUMENT, AND MUST BE CONTINUALLY UPDATED BY THE OPERATOR(S) THROUGHOUT CONSTRUCTION. PROJECT OPERATOR(S) SHALL UPDATE SITE MAP TO SHOW FINAL LOCATIONS OF STORMWATER CONTROL MEASURES AND PROVIDE INFORMATION FOR TYPES OF CONTROLS PROVIDED. PROJECT OPERATORS ARE RESPONSIBLE TO SIZE, IMPLEMENT, INSPECT, MAINTAIN, REPAIR, AND MODIFY EROSION/SEDIMENTATION CONTROL MEASURES (INCLUDING TEMPORARY SEDIMENTATION BASINS).
- 2. STORMWATER CONTROLS MUST BE DESIGNED. INSTALLED AND MAINTAINED IN COMPLIANCE WITH PART 2.1 OF THE 2017 CGP
- 3. EROSION AND SEDIMENT CONTROLS MUST BE IMPLEMENTED TO ADDRESS THE REQUIREMENTS OF PART 2.2 OF THE 2017 CGP
- 4. IF ANY STORMWATER CONTROLS MUST BE DESIGNED (E.G., SEDIMENT BASINS OR CONVEYANCE CHANNELS), THE DESIGN DOCUMENTATION MUST BE INCLUDED IN ATTACHMENTS OF THE SWPPP MANUAL.
- 5. THE ITEMS LISTED BELOW ARE REQUIRED TO BE SHOWN ON THIS SITE MAP PER PART 7.2.4 OF THE 2017 CGP. THIS SITE MAP ALREADY INCLUDES SOME OF THE ITEMS IDENTIFIED BELOW, BUT IT IS THE RESPONSIBILITY OF THE PROJECT OPERATOR(S) TO SUPPLEMENT THE INFORMATION INCLUDED HEREON TO ENSURE THAT ALL REQUIRED ITEMS ARE PROVIDED. PROJECT OPERATOR(S) SHALL CONTINUALLY UPDATE THIS SITE PLAN TO DOCUMENT THESE ITEMS THROUGHOUT CONSTRUCTION, INCLUDING BUT NOT LIMITED TO:
  - BOUNDARIES OF THE AREA OF DISTURBANCE
  - 50-FOOT BUFFER AROUND THE AREA OF DISTURBANCE
  - IDENTIFY AREAS OF STEEP SLOPE
  - LOCATIONS OF STOCKPILES
  - LOCATIONS OF CONSTRUCTION VEHICLE ACCESS • ALL STORMWATER DISCHARGE POINTS FROM THE AREA OF DISTURBANCE (TO WATERBODIES AND
- TO STORM DRAIN INLETS) • LOCATION OF ALL SURFACE WATERS WHERE THE AREA OF DISTURBANCE DISCHARGES
- THE LOCATION AND NATURE OF ALL EROSION AND SEDIMENT CONTROLS
- PERIMETER CONTROLS
- STORM DRAIN INLET CONTROLS
- A NOTE THAT INDICATES THAT THE CONTRACTOR WILL PROVIDE INFORMATION FOR ANY OTHER TYPES OF CONTROLS REQUIRED.
- LOCATION OF ON-SITE AND OFF-SITE CONSTRUCTION SUPPORT ACTIVITY AREAS COVERED BY THIS
- AREAS OF FEDERALLY LISTED CRITICAL HABITAT WITHIN THE SITE AND/OR AT DISCHARGE
- DRAINAGE PATTERNS OF STORMWATER AND AUTHORIZED NON-STORMWATER BEFORE AND AFTER MAJOR GRADING ACTIVITIES.
- LOCATIONS OF ALL POTENTIAL POLLUTANT GENERATING ACTIVITIES.
- LOCATIONS WHERE ANY CHEMICALS WILL BE USED AND STORED.

#### **PRELOADING**

IN THE AREA INDICATED, FILL SHALL BE PLACED TO THE DESIGN ELEVATION 3 MONTHS BEFORE STARTING SITE CONSTRUCTION.

#### **ISSUED FOR BID**



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

**NEW BEDFORD MAIN LINE NEW BEDFORD STATION SITE PREPARATION NOTES** 

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Whb HNTB						
Link						
PROJECT MANAGER	APP.	CHKD.	BY	DESCRIPTION	DATE	ISSUE
HORIZ: NONE						

}	BOSTON, MA 0211 (617) 728-7777
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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY

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Tim	lass	Varen	
ROJECT MANAGER		1	

ISSUE

PROJECT MANAGER DES. BY DR. BY CHK. BY PLAN NO. 312060

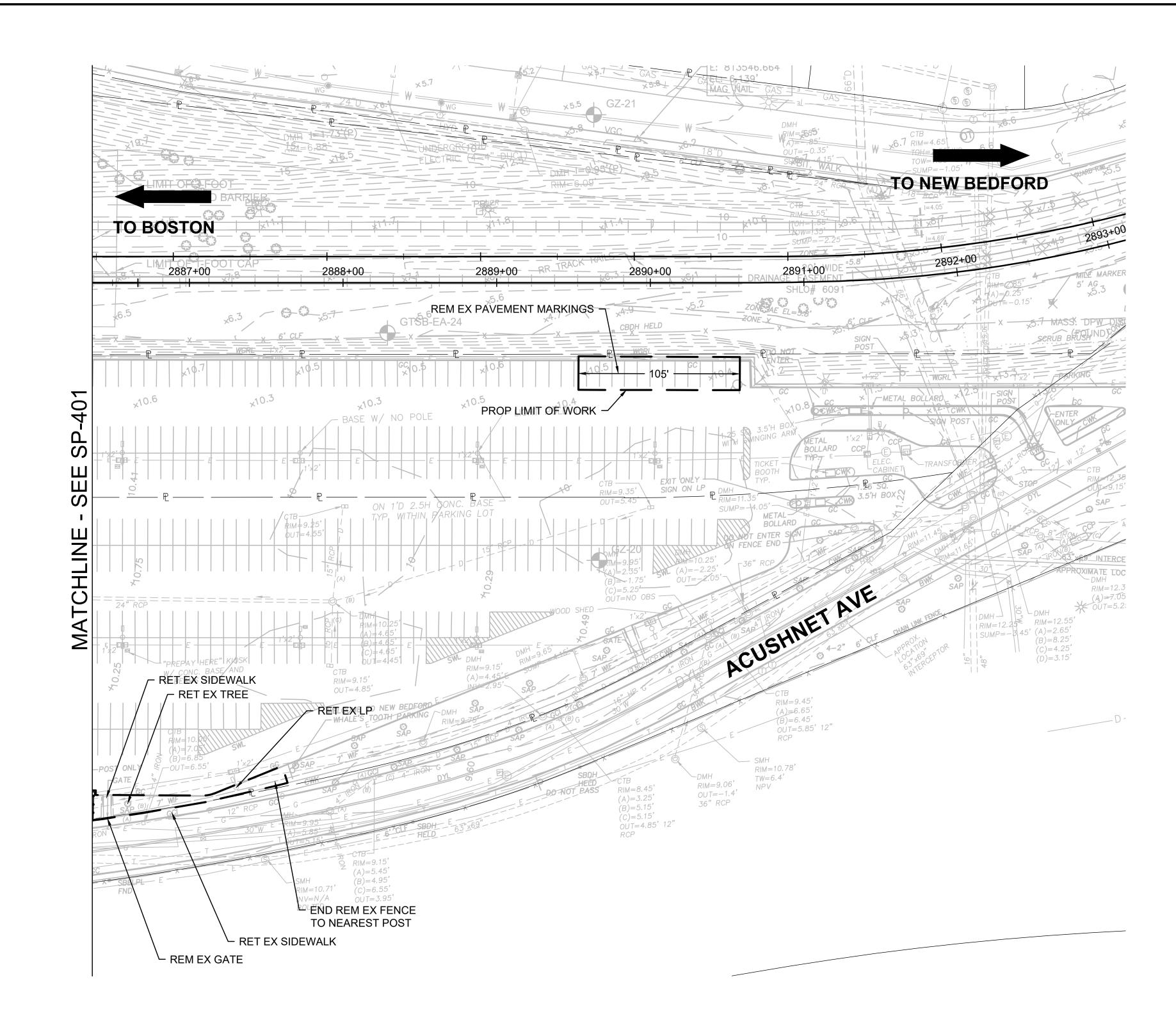
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DATE: 04/24/2020

SHEET SP-401

ADJACENT WORK IN THE TRACK ROW.

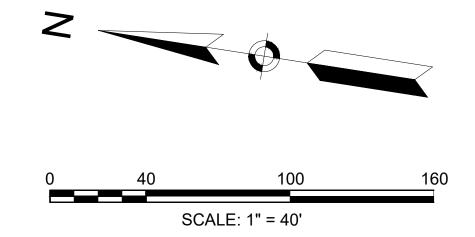




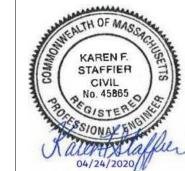
#### NOTES:

- TRACK CENTERLINE SHOWN FOR INFORMATION ONLY. REFER TO TRACK PLANS FOR MORE INFORMATION.
- LIMIT OF WORK AND EROSION CONTROL LIMITS SHOWN AND HEREON AREA FOR THE STATION CONSTRUCTION. REFER TO VOLUME 1B FOR LIMIT OF WORK AND EROSION CONTROLS RELATED TO TRACK WORK.
- 3. STAGING AREA TO BE COORDINATED WITH FERRY PARKING OWNER.
- 4. MONITORING WELL DECOMMISSIONING TO BE PERFORMED BY MASSACHUSETTS LICENSED WELL DRILLER HIRED BY CONTRACTOR, AND IN ACCORDIANCE WITH MASSDEP POLICY #WSC-310-91 FOLLOWING APPROVAL OF CLIENT'S ENVIRONMENTAL ENGINEER/CONSULTANT AND/OR WELL OWNER. RECORD OF DECOMMISSIONING MUST BE SUBMITTED BY WELL DRILLER VIA eDEP.
- 5. ALL EXISTING UTILITIES AND DRAINAGE INFRASTRUCTURE WITHIN THE LIMIT OF WORK ARE TO BE RETAINED AND PROTECTED UNLESS OTHERWISE NOTED HEREON OR INDICATED IN THE PLANS.
- 6. SEE TRACK PLANS IN VOLUME 1B FOR ADDITIONAL TRACK DETAILS.

- 7. EROSION CONTROL LIMITS ALONG THE ROW SHALL BE PLACED AND RE-PLACED BY THE CONTRACTOR TO ACCOMMODATE THE ACTIVE LIMIT OF DISTURBED AREA ON SITE AND IN COORDINATION WITH THE ADJACENT WORK IN THE TRACK ROW.
- 8. EROSION CONTROL LIMITS SHALL BE CONSIDERED THE LIMIT OF WORK, UNLESS OTHERWISE NOTED.
- CONSTRUCTION SHALL BE PHASED TO ALLOW USE OF THE PARKING AREA FOR FERRY PATRONS BETWEEN MEMORIAL DAY AND LABOR DAY.
- 10. BUILDING, SELECTIVE UTILITY DEMOLITION, AND SELECTIVE MONITORING WELL DECOMMISSIONING IS NIC. CONTRACTOR TO COORDINATE WITH EARLY BUILDING DEMOLITION PROJECT, MBTA CONTRACT NO. K78CN02 TO UNDERSTAND WHAT WORK HAS BEEN PREVIOUSLY COMPLETED.



#### **ISSUED FOR BID**



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MIDDLEBOROUGH TO NEW BEDFORD, MA
CONTRACT NO. K78CN04

NEW BEDFORD MAIN LINE NEW BEDFORD STATION SITE PREPARATION PLAN 2

ISSUE DATE DESCRIPTION BY CHKD. APP. PROJECT MANAGER

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

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

Liba Lacy TMANAGER Date

APPROVED BY:

PROJECT MANAGER

Date

ISSUE

HORIZ: 1" = 40'

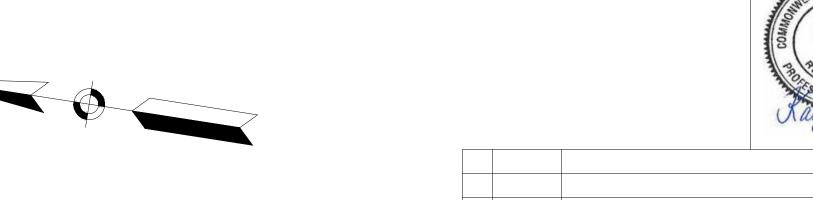
VERT: NONE

DATE: 04/24/2020

DES. BY DR. BY CHK. BY PLAN NO. 312062

PLAN NO. 312062

SHEET SP-402



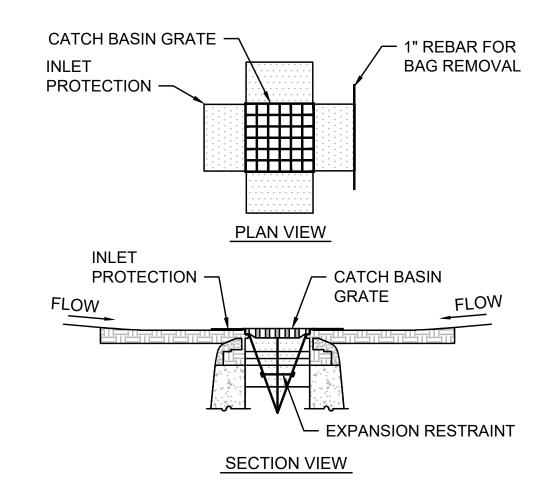
FILTER TUBE SHALL MADE OF BIODEGRADABLE FABRIC AND BE FILLED BY BLOWN IN ORGANIC COMPOST AND PLACED AS ILLUSTRATED ON THE

NOTES:

- COMPOST FILTER TUBES SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIRED OR REPLACED AS NEEDED.
- AT COMPLETION OF PROJECT, COMPOST FILTER TUBES SHALL BE CUT OPEN AND COMPOST MATERIAL SHALL BE DISPERSED ON SITE.
- THE EMPTY FILTER TUBE FABRIC SHALL BE COLLECTED AND DISPOSED OF PROPERLY.
- CONTRACTOR TO OVERLAP OR ABUT COMPOST FILTER TUBES A MIN OF 3 FEET TO PROVIDE A CONTINUOUS BARRIER

#### LINEAR SEDIMENTATION AND EROSION CONTROL

SCALE: N.T.S.

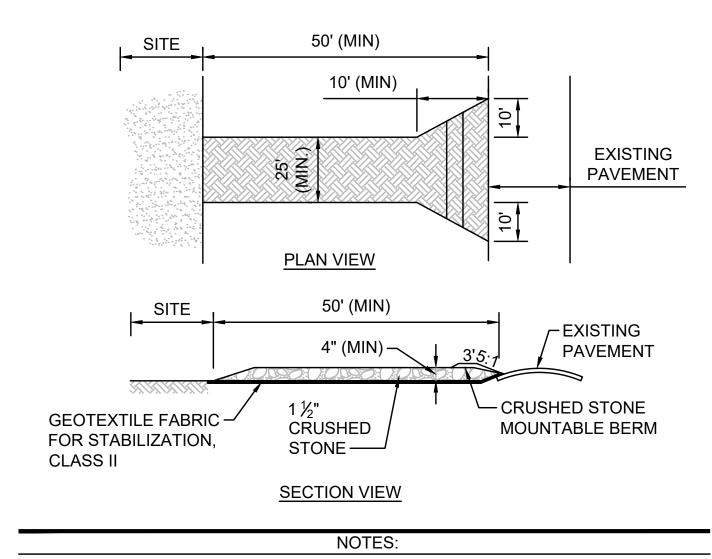


#### NOTES:

- INSTALL INLET PROTECTION 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.
- GRATE TO BE PLACED OVER INLET PROTECTION.
- CATCH BASIN INLET PROTECTION SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED.
- 4. WHERE CATCH BASINS HAVE GUTTER INLETS, COMPOST FILTER TUBES SHALL BE PLACED ACROSS THE LENGTH OF THE OPENING.

#### **CATCH BASIN INLET PROTECTION**

SCALE: N.T.S.



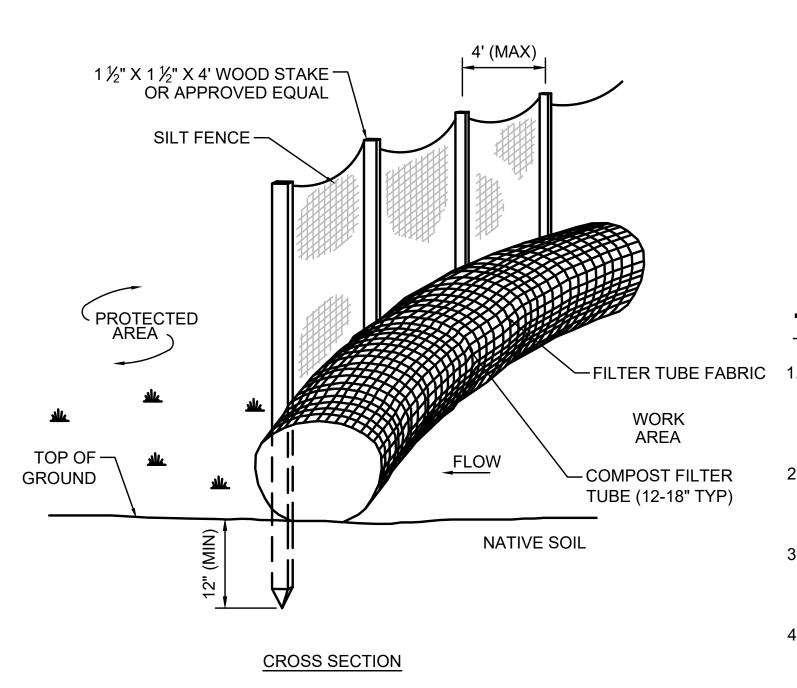
- CONTRACTOR TO FIELD LOCATE STABILIZED CONSTRUCTION EXIT BASED ON CONSTRUCTION PHASING AND STAGING.
- 2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS 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.
- 4. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.

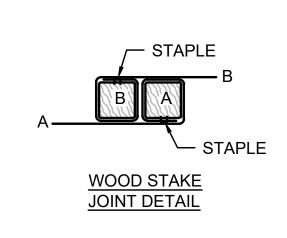
#### STABILIZED CONSTRUCTION EXIT

SCALE: N.T.S.

KAREN F.

STAFFIER





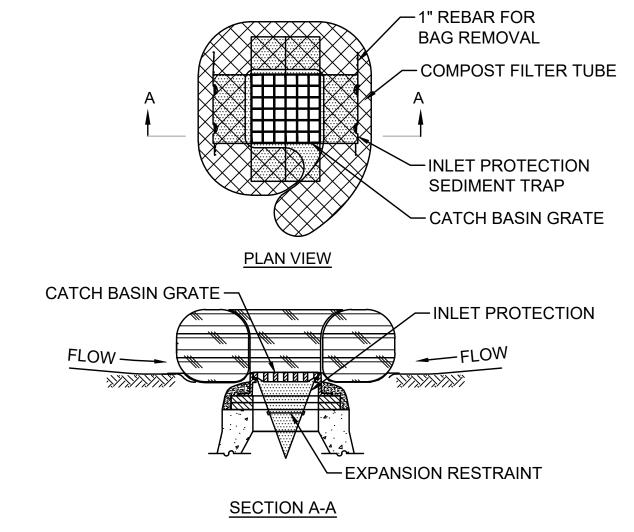
FILTER TUBE SHALL BE MADE OF BIODEGRADABLE FABRIC AND BE FILLED BY BLOWN IN ORGANIC COMPOST AND PLACED AS ILLUSTRATED ON THE PROJECT PLANS.

NOTES:

- COMPOST FILTER TUBES SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIRED OR REPLACED AS NEEDED.
- AT COMPLETION OF PROJECT, COMPOST FILTER TUBES SHALL BE CUT OPEN AND COMPOST MATERIAL SHALL BE DISPERSED ON SITE.
- THE EMPTY FILTER TUBE FABRIC SHALL BE COLLECTED AND DISPOSED OF PROPERLY.
- CONTRACTOR TO OVERLAP OR ABUT COMPOST FILTER TUBES A MIN OF 3 FEET TO PROVIDE A **CONTINUOUS BARRIER**

## **CATCH BASIN SEDIMENT TRAP**

SCALE: N.T.S.



## NOTES:

- ENCLOSE STRUCTURE WITH COMPOST FILTER TUBES IMMEDIATELY AFTER CATCH BASIN CONSTRUCTION. MAINTAIN UNTIL PAVING INTERMEDIATE COURSE IS COMPLETE OR A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
- 2. IF GRADE IS AGAINST EXISTING CURB THEN TUBE IS TO BE PLACED AROUND THREE SIDES OF GRATE ONLY.
- 3. COMPOST TUBES SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.

CONTRACT NO. K78CN04 CIVIL No. 45865 **NEW BEDFORD MAIN LINE NEW BEDFORD STATION SITE PREPARATION DETAILS** MASSACHUSETTS BAY TRANSPORTATION **Thb HNTB**BOSTON, MA 02110 (617) 728-7777 **AUTHORITY** APPROVED BY Withal Karry PROJECT MANAGER PROJECT MANAGER ISSUE DES. BY DR. BY CHK. BY HORIZ: NONE PLAN NO. 312063 VERT: NONE

DATE: 04/24/2020

**ISSUED FOR BID** 

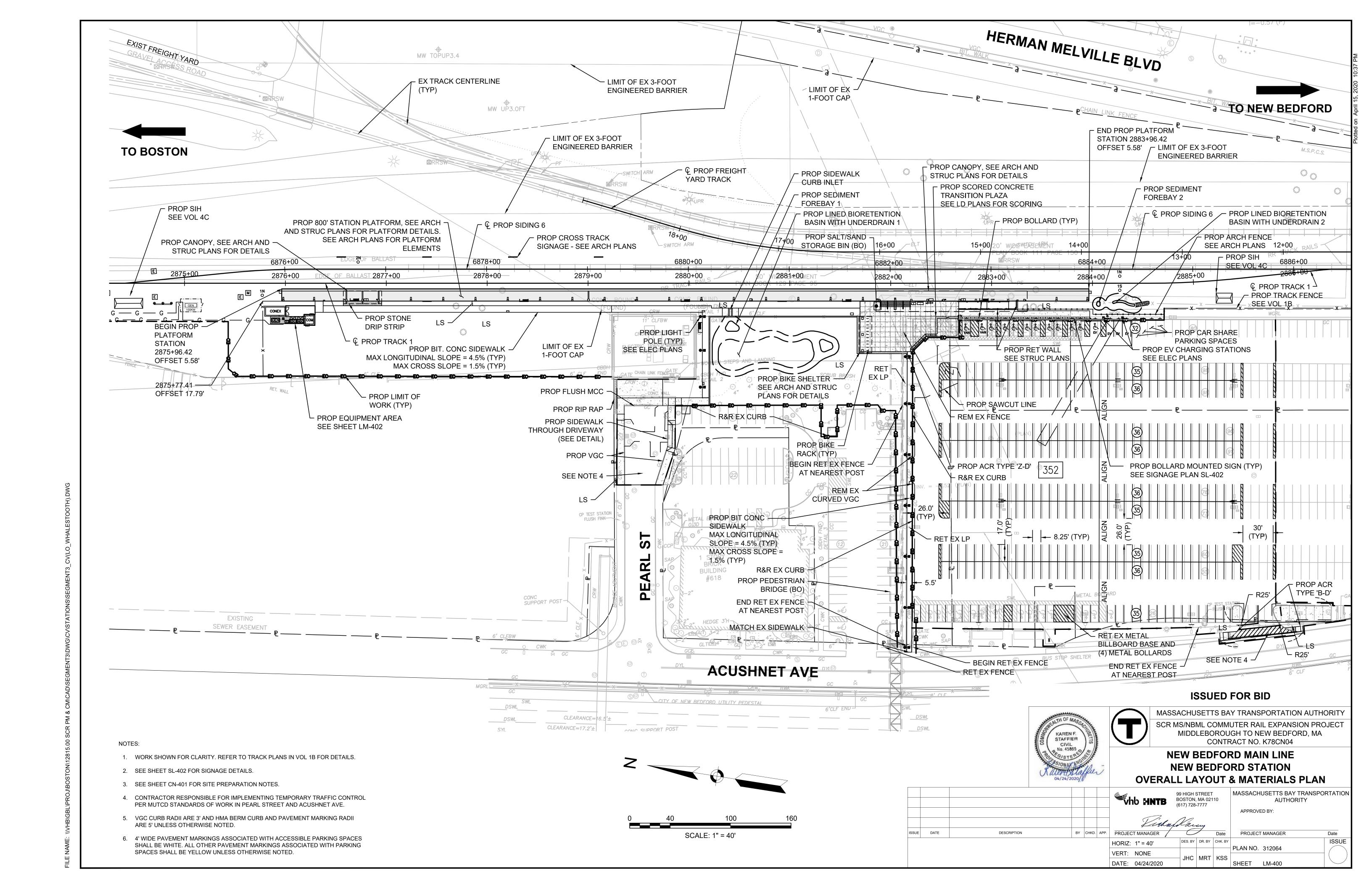
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

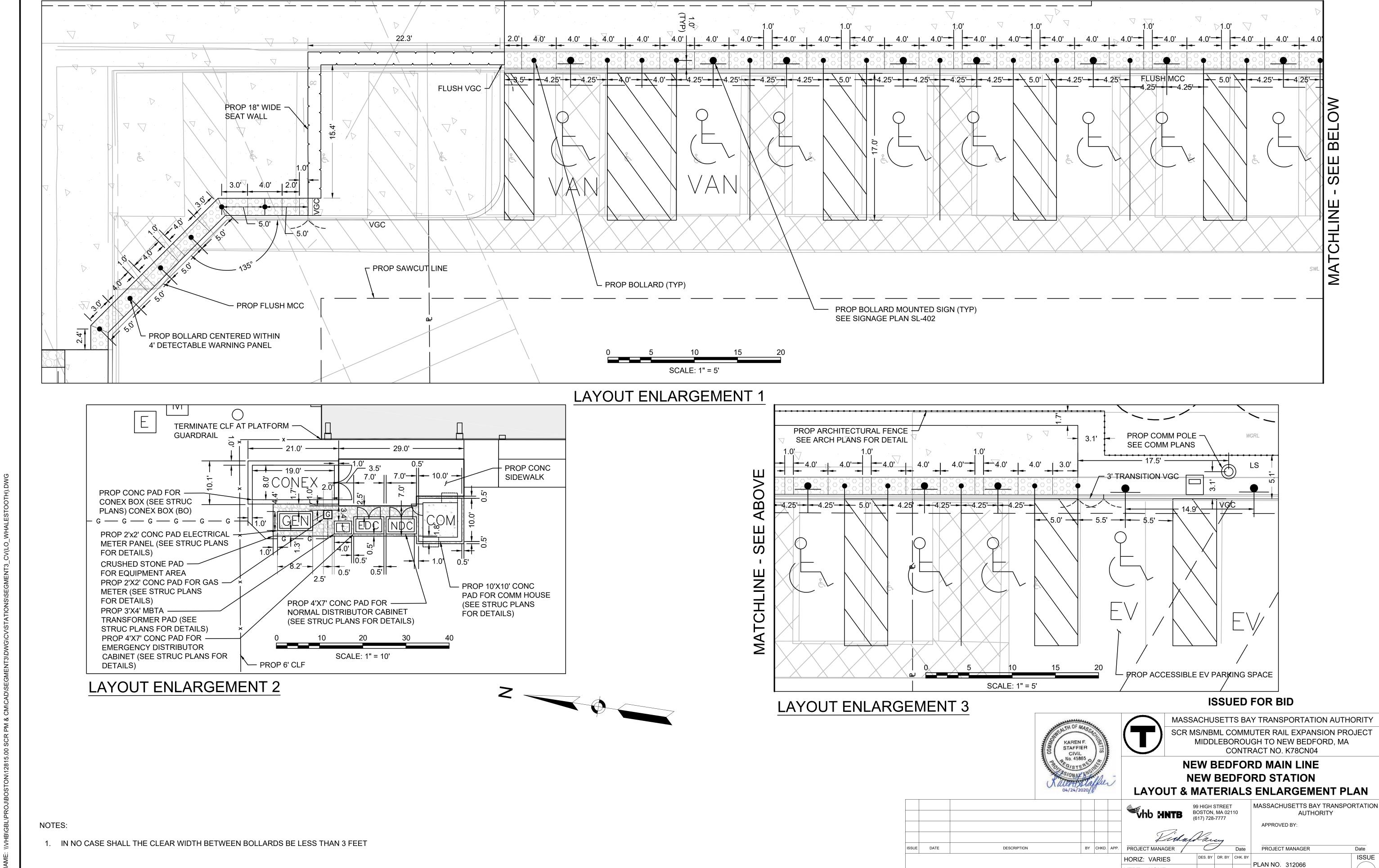
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT

MIDDLEBOROUGH TO NEW BEDFORD, MA

SHEET SP-403

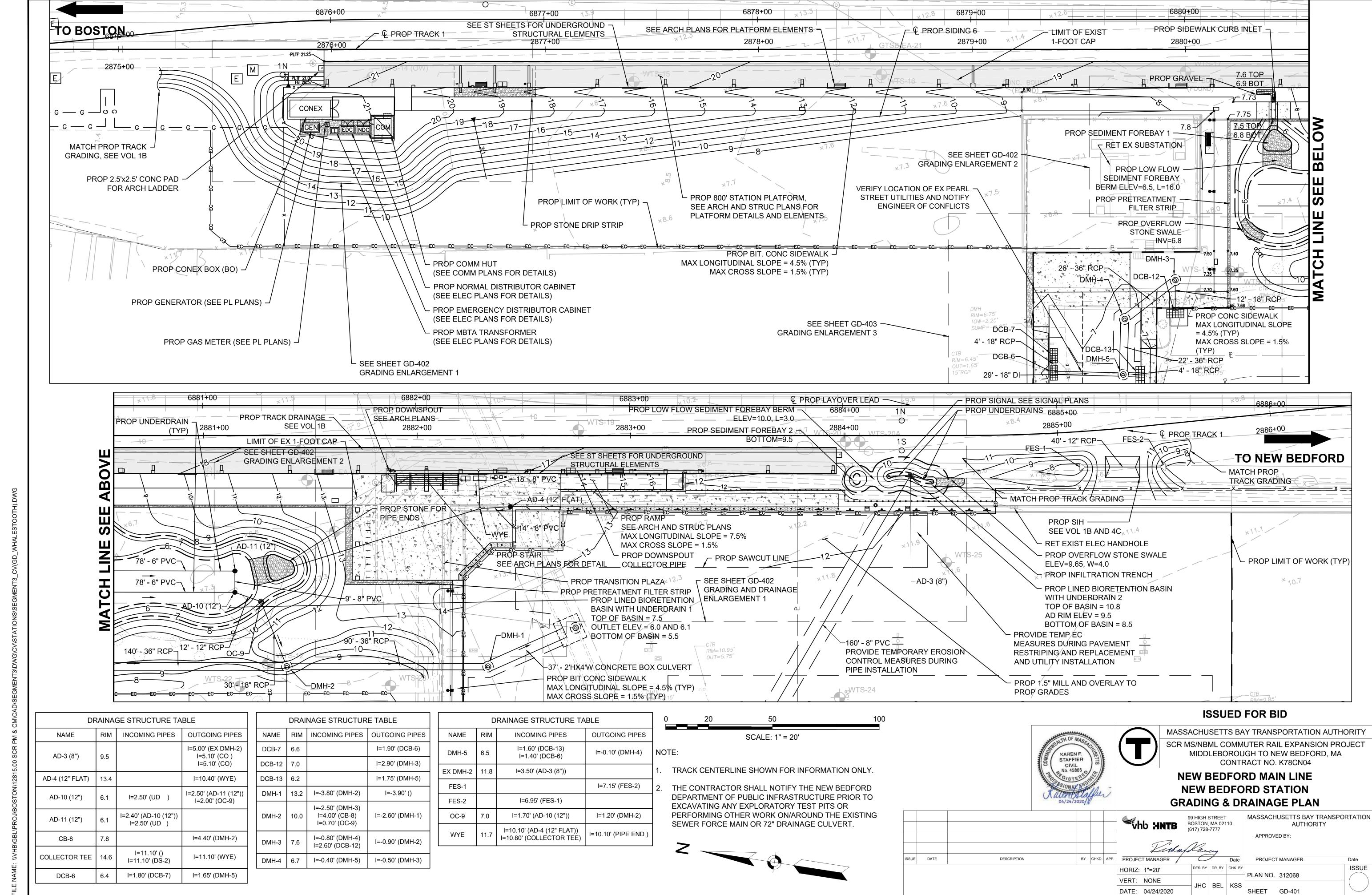
LINEAR SEDIMENTATION AND EROSION CONTROL WITH SILT FENCE SCALE: N.T.S.

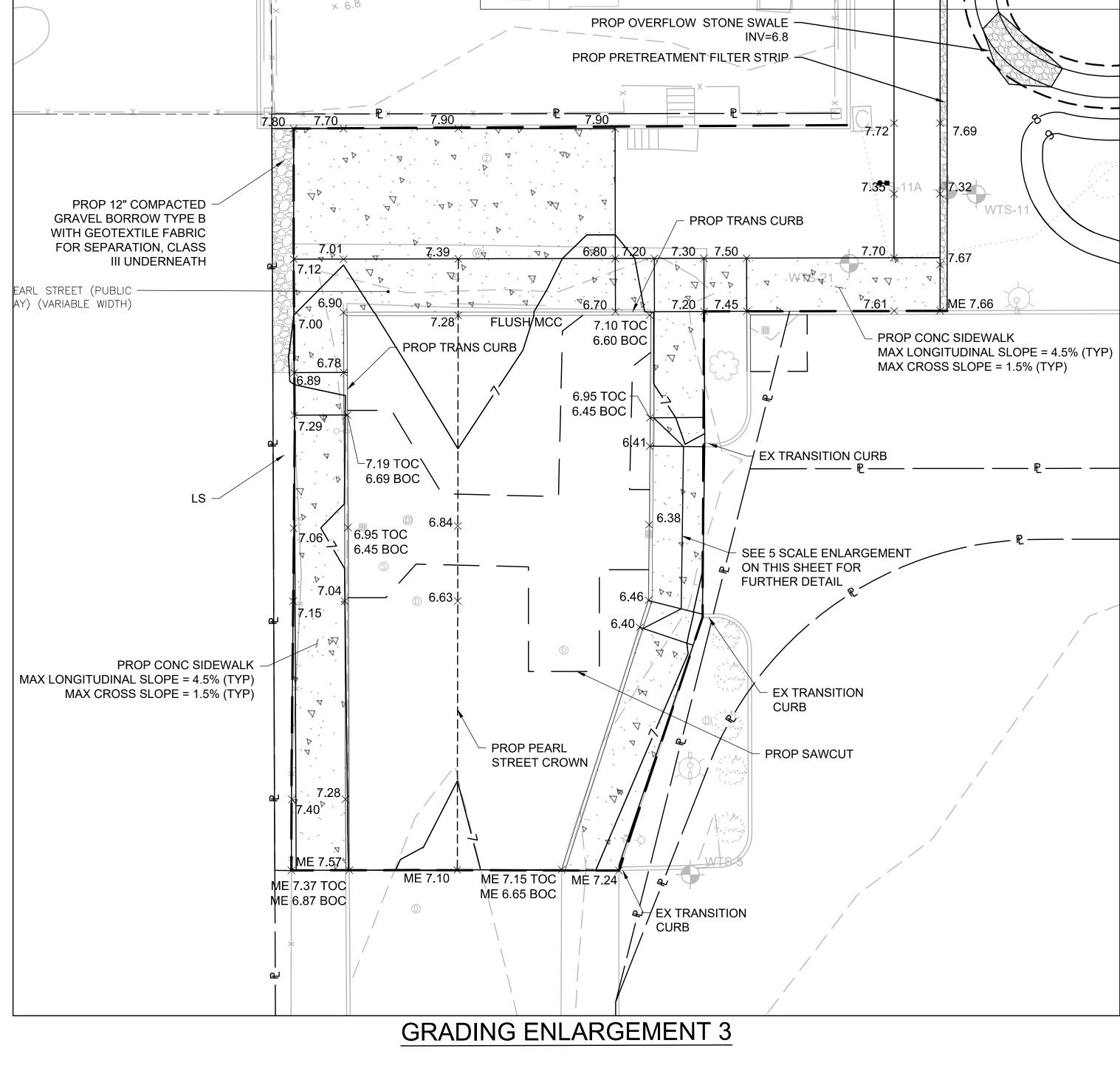


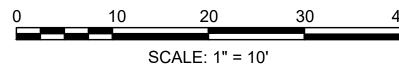


DATE: 04/24/2020

SHEET LM-402

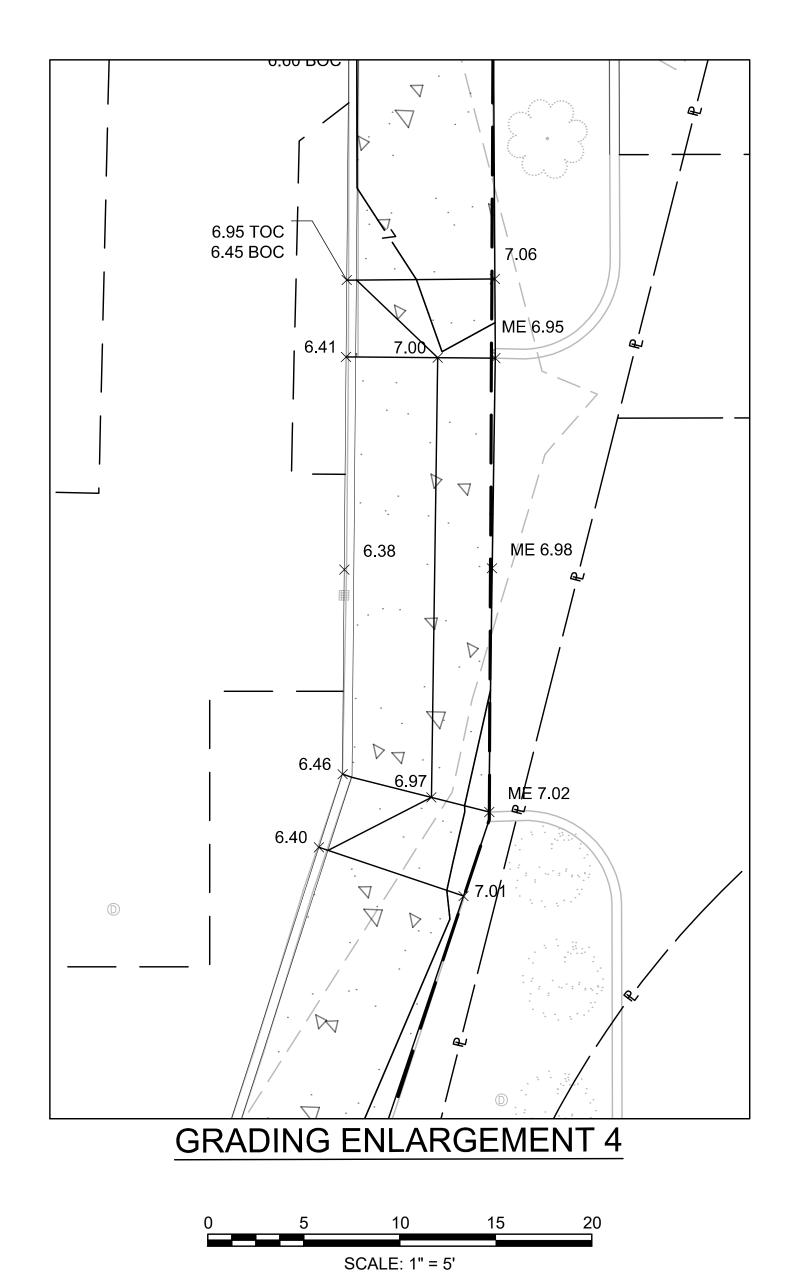




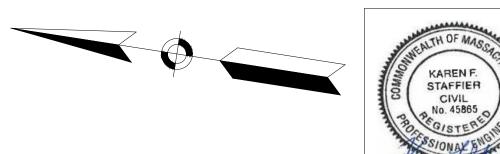


#### NOTE:

1. TRACK CENTERLINE SHOWN FOR INFORMATION ONLY.



#### **ISSUED FOR BID**







MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

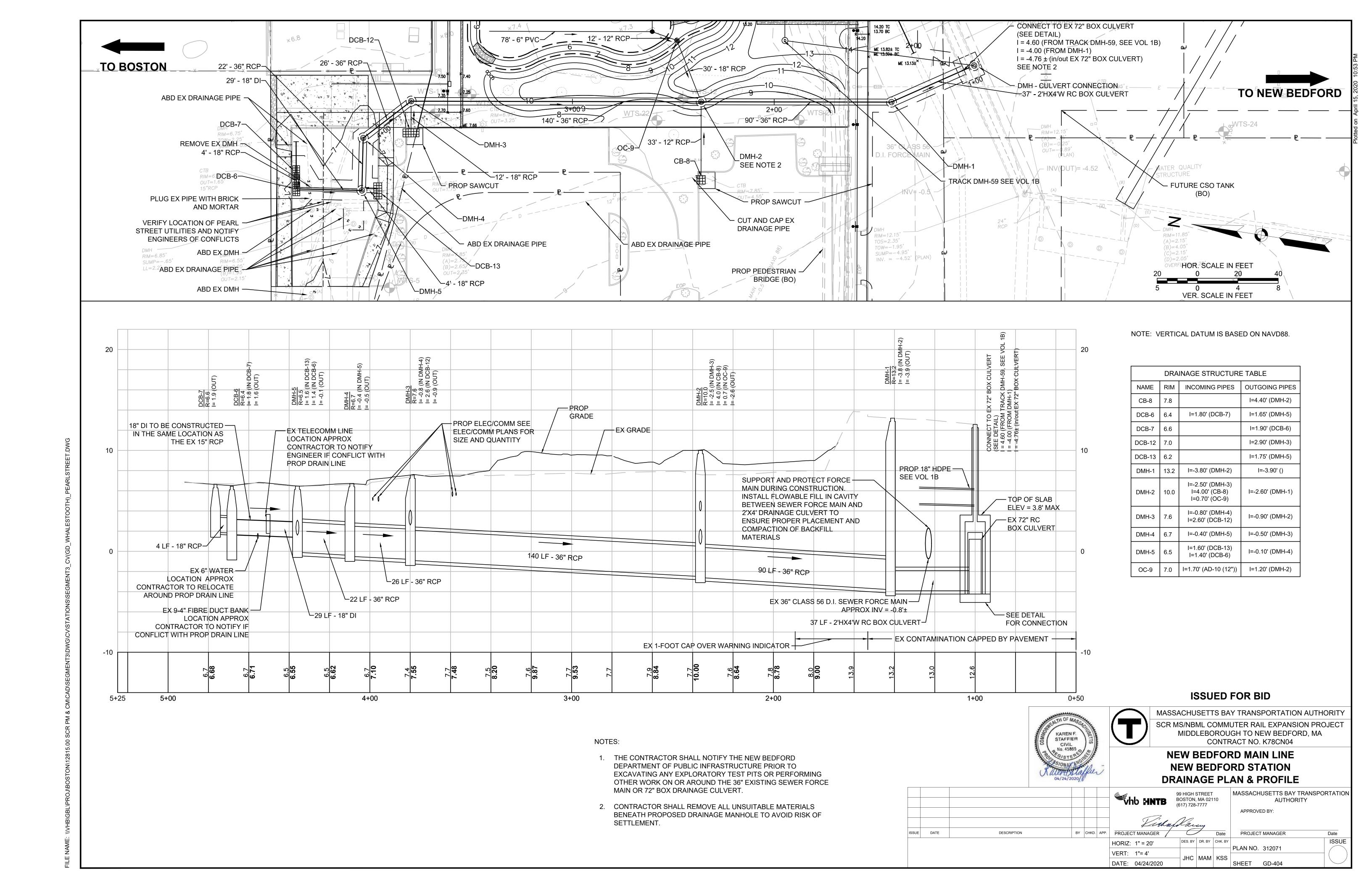
#### **NEW BEDFORD MAIN LINE NEW BEDFORD STATION GRADING ENLARGEMENT PLAN 2**

						Vh
M	ARCH 1, 20	19				
SUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT
						HORIZ:

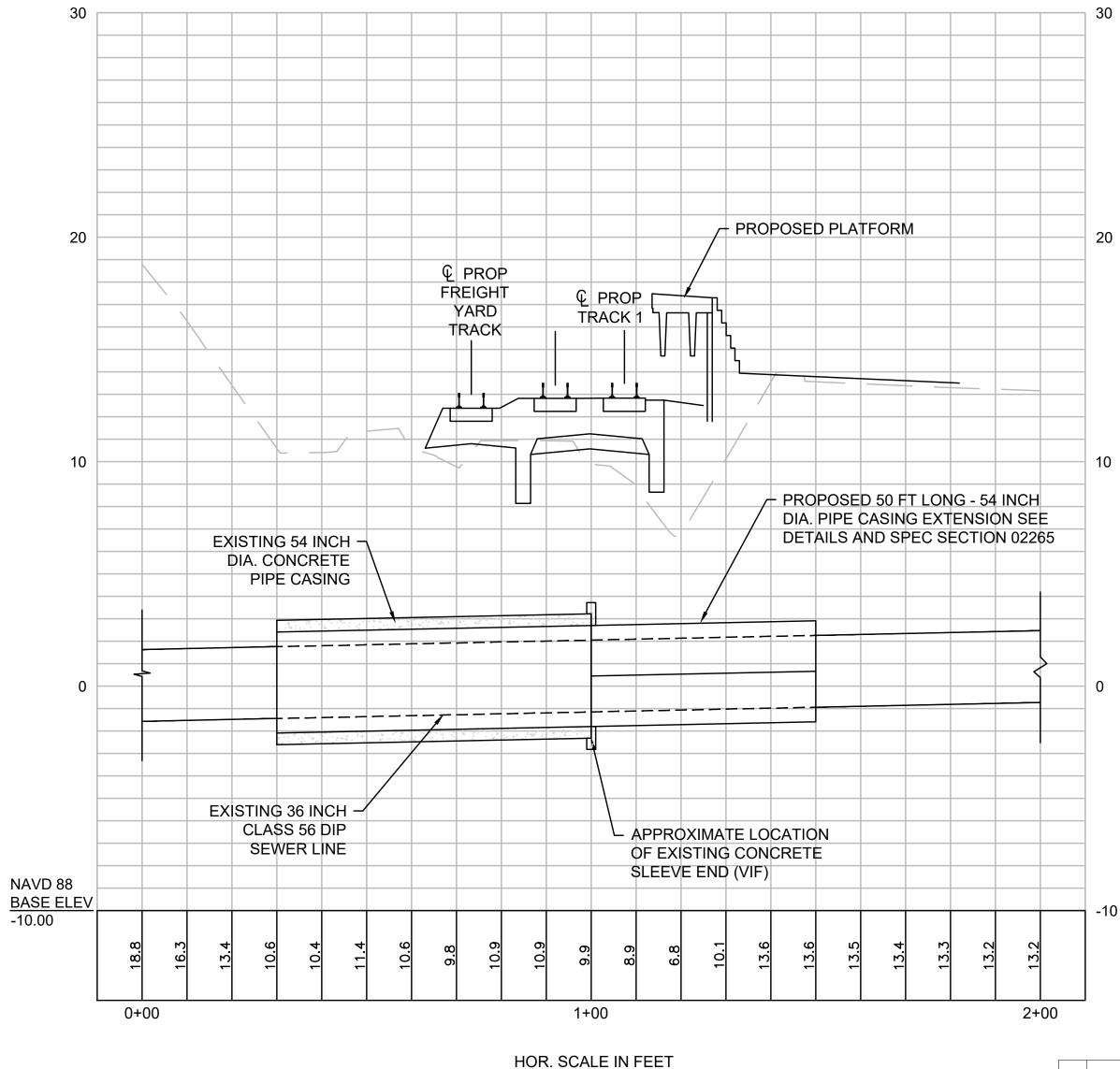
17. M	
Kulafolding	

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY:

PROJECT MANAGER ISSUE **VARIES** PLAN NO. 312070 VERT: NONE DATE: 04/24/2020 SHEET GD-403



## Sewer Force Main Pipe Casing Extension



VER. SCALE IN FEET

#### NOTES:

- 1. SEE SHEET UT-400 FOR TEST PITS REQUIRED PRIOR TO ORDERING MATERIALS. THE CONTRACTOR SHALL NOTIFY THE NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE AT LEAST ONE WEEK PRIOR TO EXCAVATING ANY EXPLORATORY TEST PITS OR PERFORMING OTHER WORK ON/AROUND THE EXISTING SEWER FORCE MAIN OR 72" DRAINAGE CULVERT.
- 2. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE EXISTING SEWER FORCE MAIN REMAINS OPERATIONAL DURING CONSTRUCTION.
- 3. CONTRACTOR SHALL PROVIDE SUPPORTIVE EXCAVATION.

#### **ISSUED FOR BID**





HORIZ: 1" = 20'

VERT: 1"= 4'

DATE: 04/24/2020

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

SHEET GD-405

NEW BEDFORD MAIN LINE **NEW BEDFORD STATION SEWER CASING PLAN & PROFILE** 

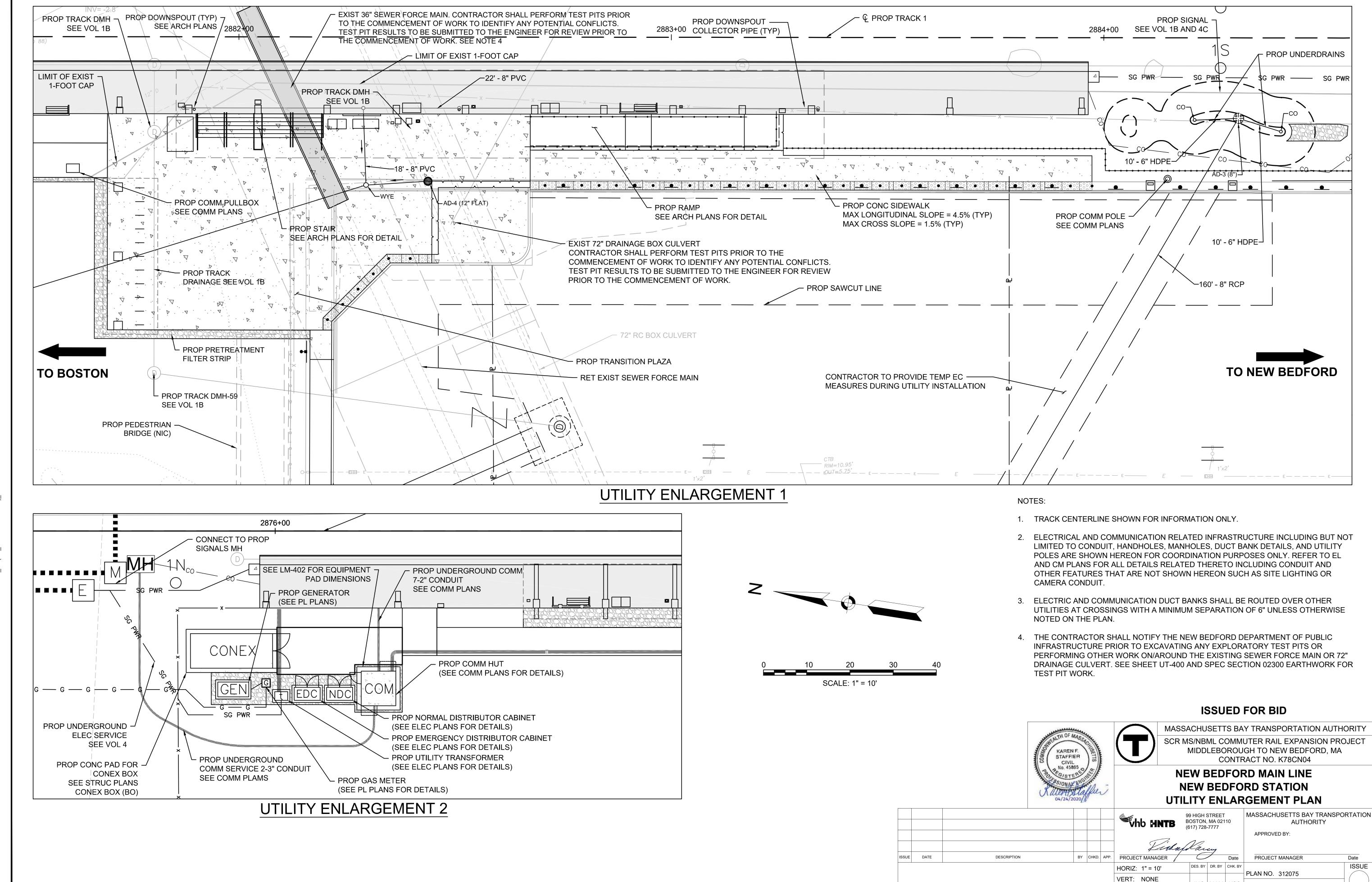
BY CHKD. APP. PROJECT MANAGER

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

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY:

ISSUE

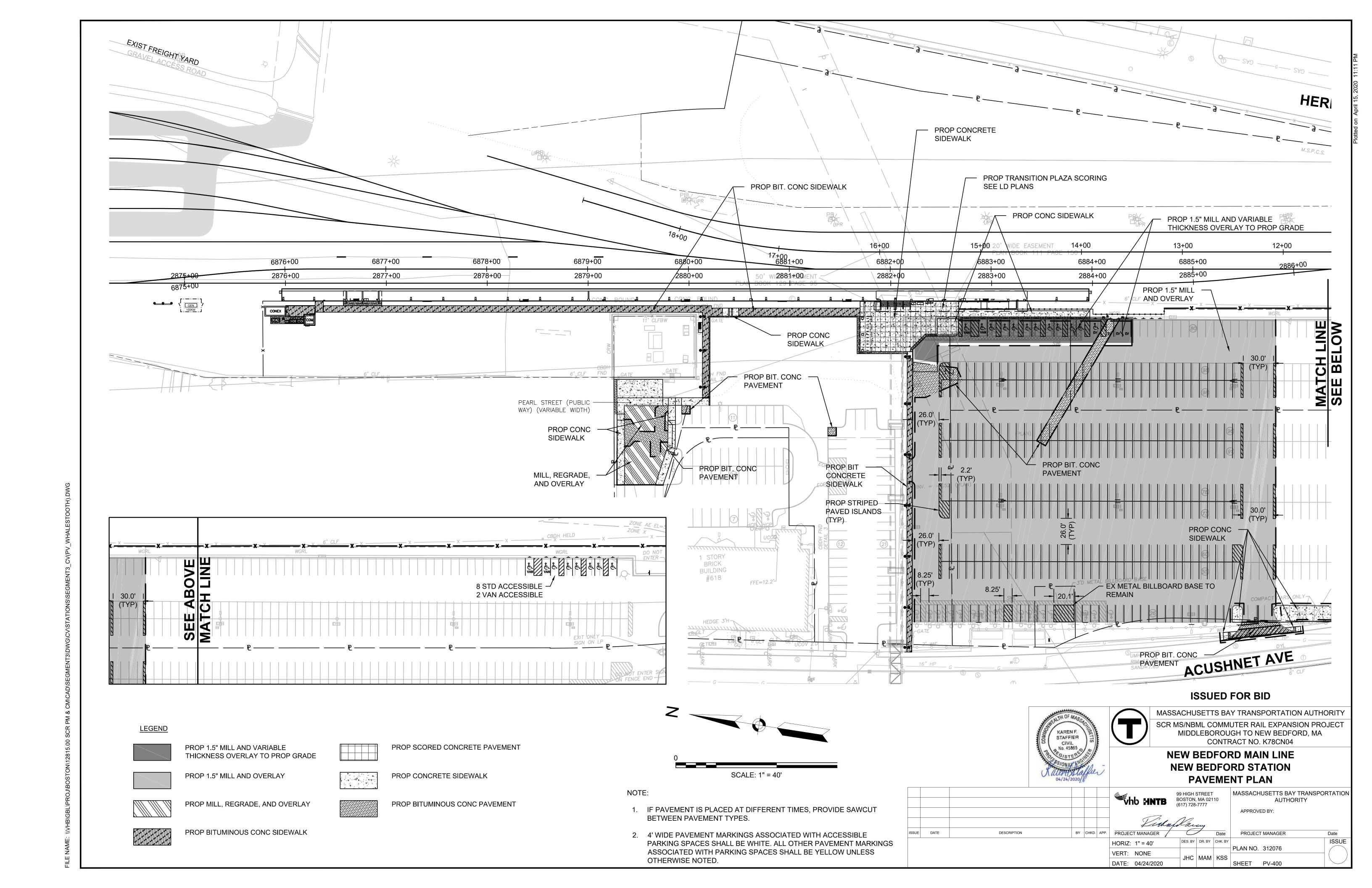
PROJECT MANAGER PLAN NO. 312072

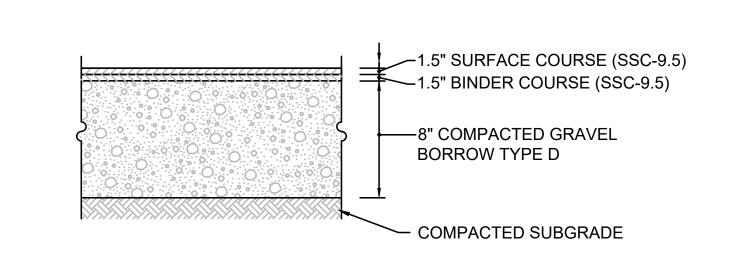


DATE: 04/24/2020

SHEET UT-402

ILE NAME: \\VHB\GBL\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\CV\STATIONS\SEGMENT3 CV(UT WHALESTOOTH) 10:





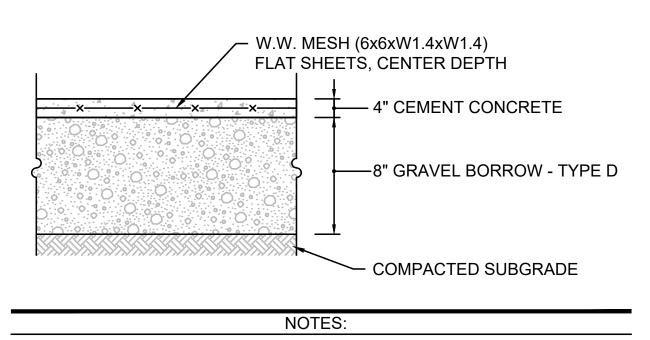
# 3" INTERMEDIATE COURSE (SIC-19.0) 4" DENSE GRADED CRUSHED STONE 8" GRAVEL BORROW - TYPE D COMPACTED SUBGRADE

## BITUMINOUS CONCRETE SIDEWALK SECTION

SCALE: N.T.S.

#### BITUMINOUS CONCRETE PAVEMENT SECTION

SCALE: N.T.S.

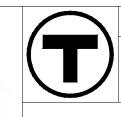


1. CONCRETE TO BE 4000 PSI TYP II, 6% (±1.5%) AIR ENTRAINED.

## CONCRETE SIDEWALK (SLAB ON GRADE) SECTION SCALE: N.T.S.

#### **ISSUED FOR BID**



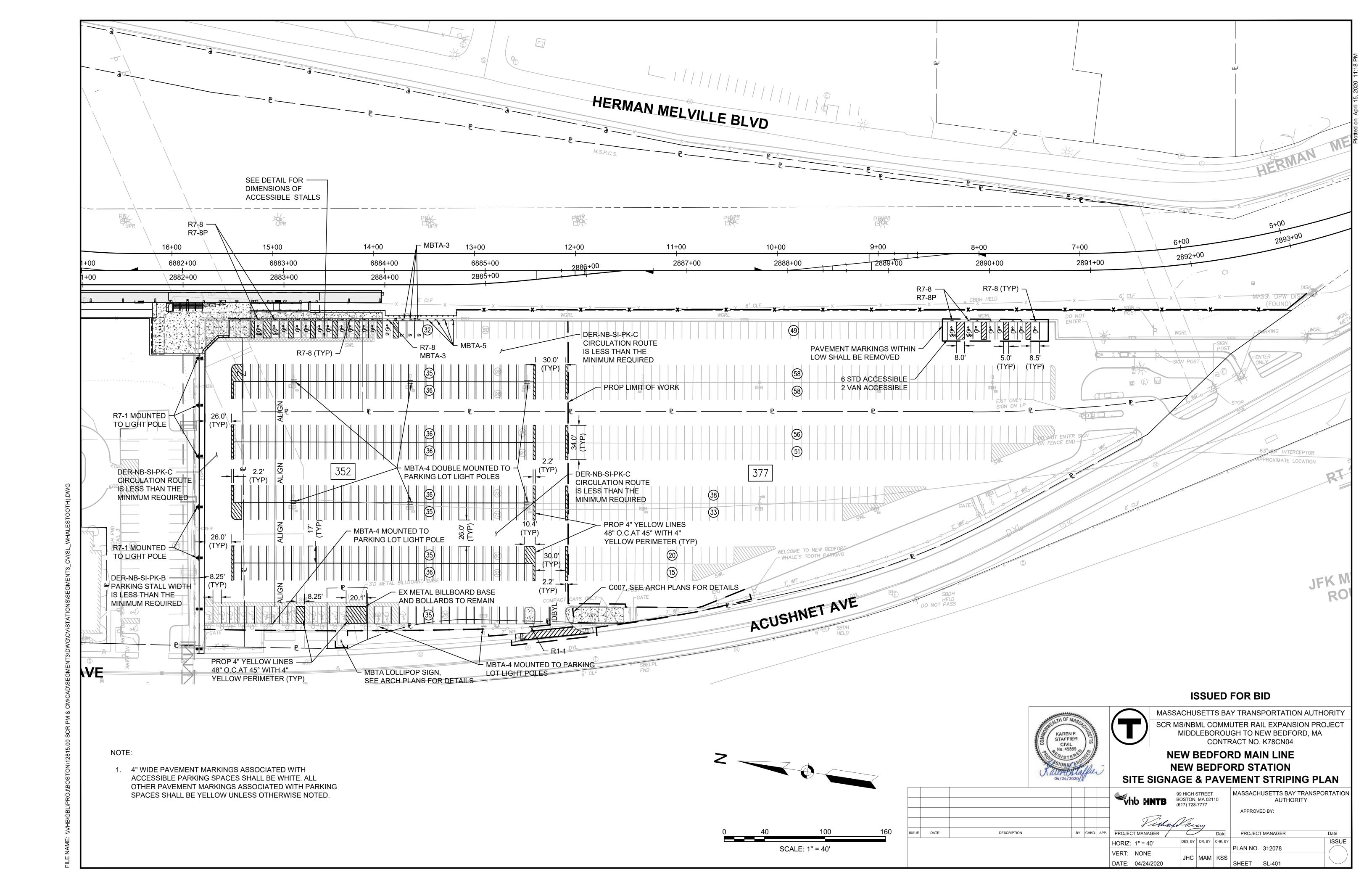


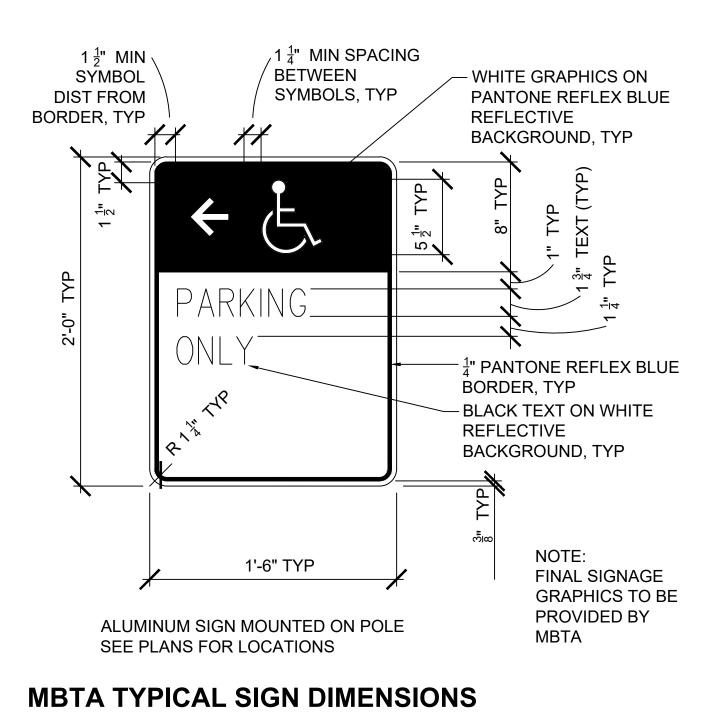
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

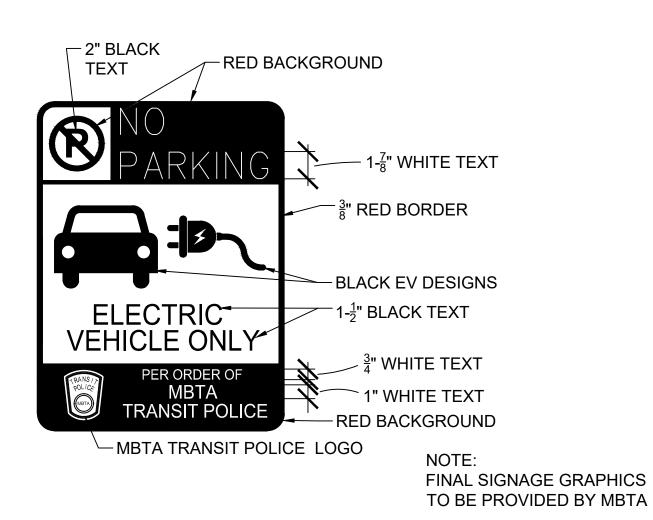
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MIDDLEBOROUGH TO NEW BEDFORD, MA
CONTRACT NO. K78CN04

NEW BEDFORD MAIN LINE NEW BEDFORD STATION PAVEMENT DETAILS

						99 HIGH STREET BOSTON, MA 02110 (617) 728-7777  MASSACHUSETTS E AUT			IUSETTS BAY AUTHOR		ION		
						_				APPROV	ED BY:		
						Likali	Vai	cuy					
ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	$\subset$	7	Date	PROJEC <sup>-</sup>	T MANAGER	Date	
						HORIZ: NONE	DES. BY	DR. BY	CHK. BY	DI ANINO	0.40077	ISSU	JE
						VERT: NONE	1110		1400	PLAN NO.	312077		
						DATE: 04/24/2020	JHC	MAM	KSS	SHEET	PV-401		$\mathcal{I}$

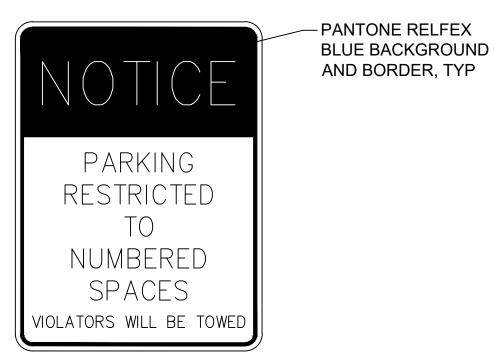






## MBTA-3 MBTA ELECTRIC VEHICLE PARKING SIGN

SCALE: N.T.S.



PAY FOR PARKING USING YOUR CELL PHON

**paybyphone** 

download the mobile app

paybyphone.com

Location ####

Mossachusetts Bay VISA 😄 📘 🖘

TO SIGN UP:

SCALE: N.T.S.

1. FINAL SIGNAGE GRAPHICS TO

MBTA-4 MBTA PARKING PAYMENT SIGN

BE PROVIDED BY MBTA WHEN MOUNTED ON LIGHT POLE, MINIMUM MOUNTING HEIGHT SHALL BE 8' FROM FINISHED GRADE TO BOTTOM OF SIGN

SIGN TO BE FASTENED TO LIGHT POLE WITH STAINLESS STEEL HARDWARE

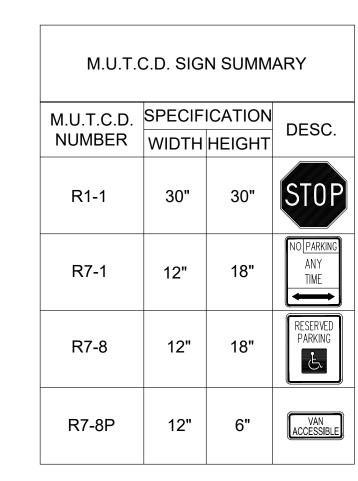


- PANTONE RELFEX BLUE BACKGROUND AND BORDER, TYP

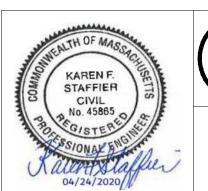
NOTE: FINAL SIGNAGE GRAPHICS TO BE PROVIDED BY MBTA

#### MBTA-5 MBTA CAR SHARE PARKING SIGN

SCALE: N.T.S.



#### **ISSUED FOR BID**





MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

> MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

#### **NEW BEDFORD MAIN LINE NEW BEDFORD STATION** SITE SIGNAGE DETAILS

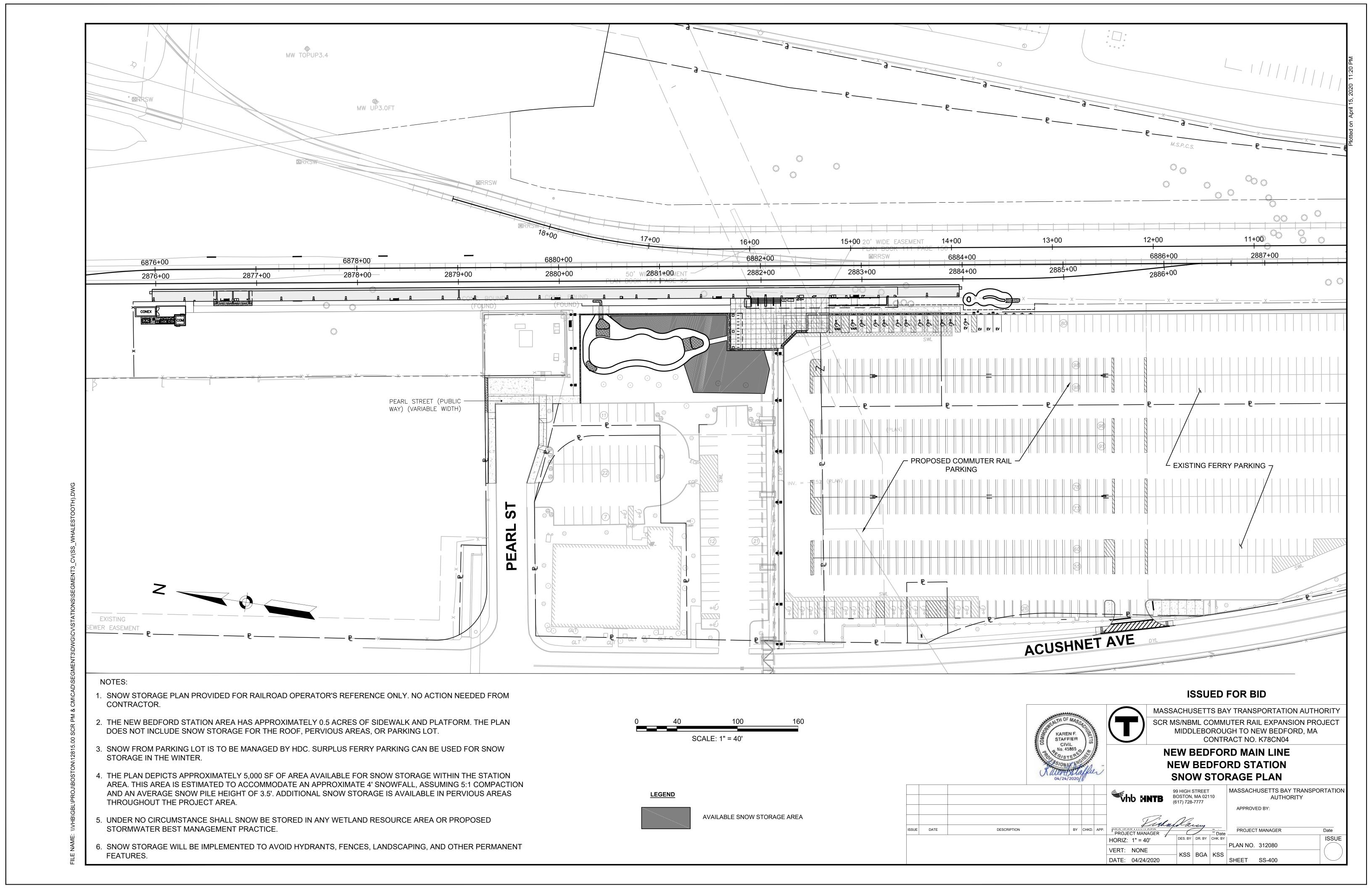
						Who water	99 HIGH 9 3OSTON, 617) 728	MA 021	
						List of	Van	eng	
ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER			Da
						HORIZ: NONE	DES. BY	DR. BY	СНК

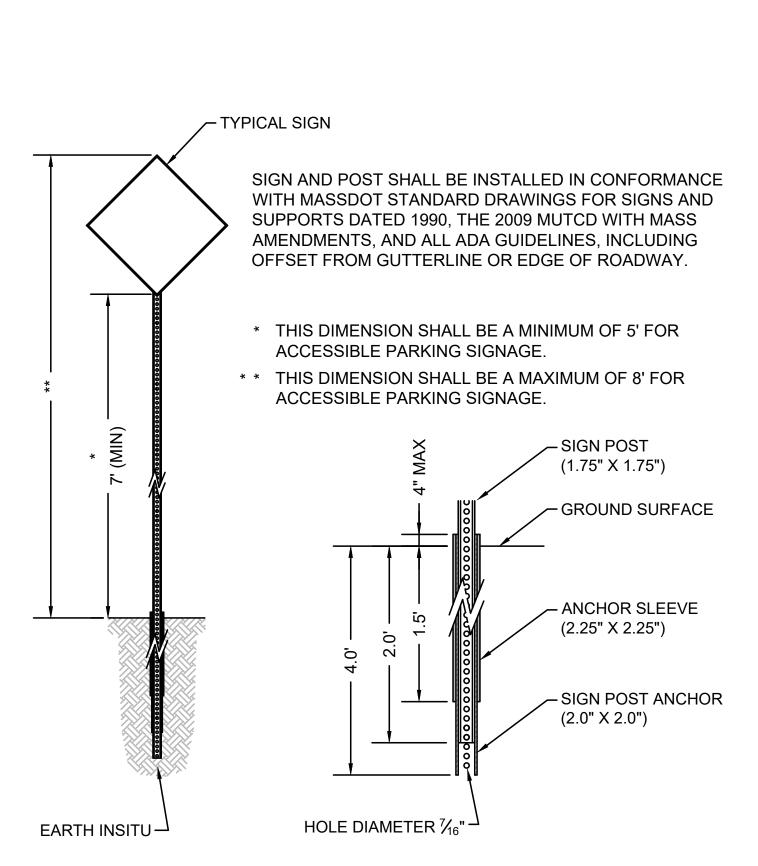
APPROVED BY: NONE

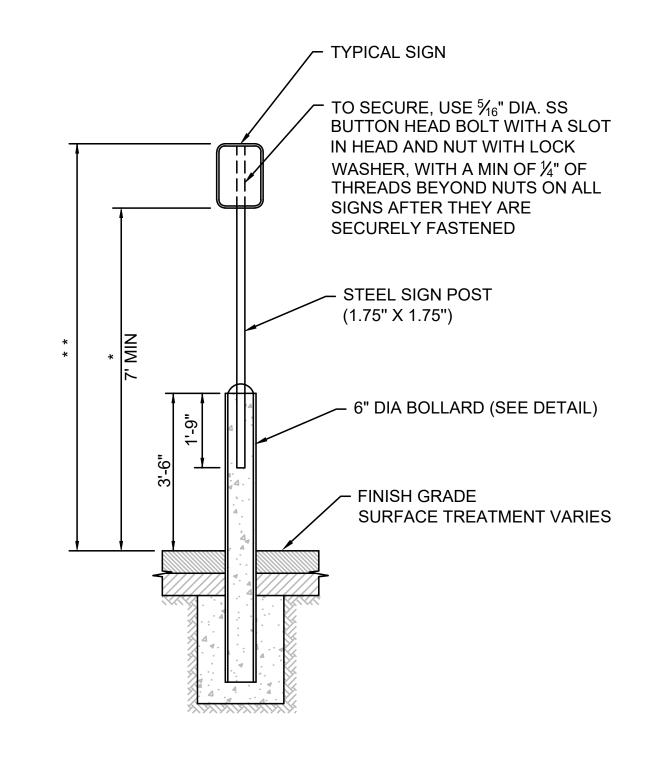
PROJECT MANAGER ISSUE → PLAN NO. 312079 RLG MRT KSS SHEET SL-402 VERT: NONE DATE: 04/24/2020

NOTES:

- CONTRACTOR SHALL OBTAIN ALL NON-MUTCD SIGNAGE GRAPHICS FROM THE MBTA.
- 2. All MBTA SIGNS ARE TO BE MADE OF ALUMINUM AND SHALL BE MOUNTED ON POLE. SEE PLANS FOR LOCATIONS.



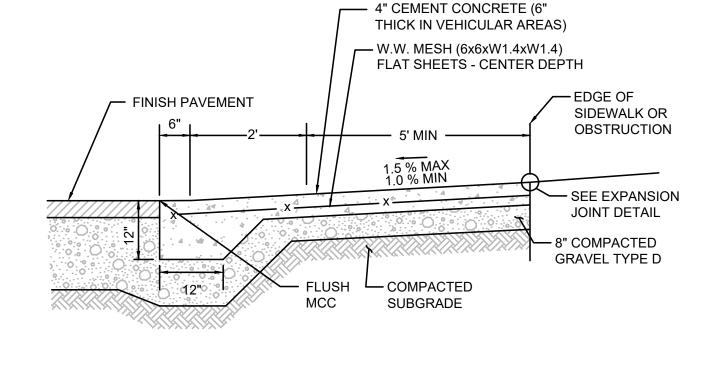


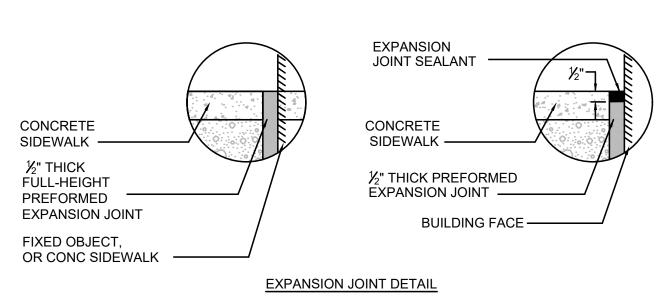


- \* THIS DIMENSION SHALL BE A MINIMUM OF 5' FOR ACCESSIBLE PARKING SIGNAGE.
- \* \* THIS DIMENSION SHALL BE A MAXIMUM OF 8' FOR ACCESSIBLE PARKING SIGNAGE.

## - CONCRETE FILL - 6" DIA. SCHEDULE 40 **GALVANIZED STEEL PIPE** FILLED WITH CONCRETE · PLASTIC BOLLARD COVER (COLOR SHALL BE BLACK. WHERE BOLLARDS ARE INSTALLED IMMEDIATELY ADJACENT TO TRANSFORMERS, COMMUNICATION HOUSE, GENERATORS, ETC, COLOR SHALL BE YELLOW) FINISHED GRADE SURFACE TREATMENT VARIES 24" DIA SONOTUBE **CONCRETE ENCASEMENT COMPACTED GRAVEL** TYPE D COMPACTED SUBGRADE

ROUNDED CONCRETE CAP





## FLUSH MONOLITHIC CONC. CURB (MCC) & SIDEWALK

SCALE: N.T.S.

JOINTS SHALL BE

MORTARED

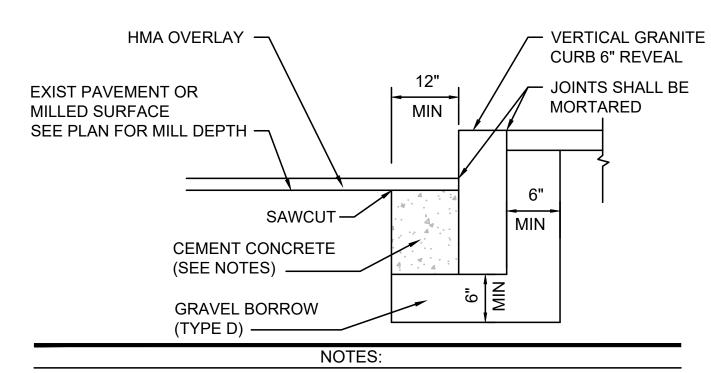
**TREATMENT** 

- COMPACTED

SUBGRADE

— SURFACE

**VARIES** 



- CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB
- 2. SAWCUT 6" FROM CURB LINE AND REMOVE EXISTING PAVEMENT AND GRAVEL. REPLACE WITH CEMENT CONCRETE.
- ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE.
- 4. REFER TO SPECIFICATION 02524 CURBING.

## **GRANITE CURB IN EXISTING PAVEMENT WITH OVERLAY**

SCALE: N.T.S.



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

SHEET SD-401

**NEW BEDFORD MAIN LINE NEW BEDFORD STATION** SITE DETAILS 1

**ISSUED FOR BID** 

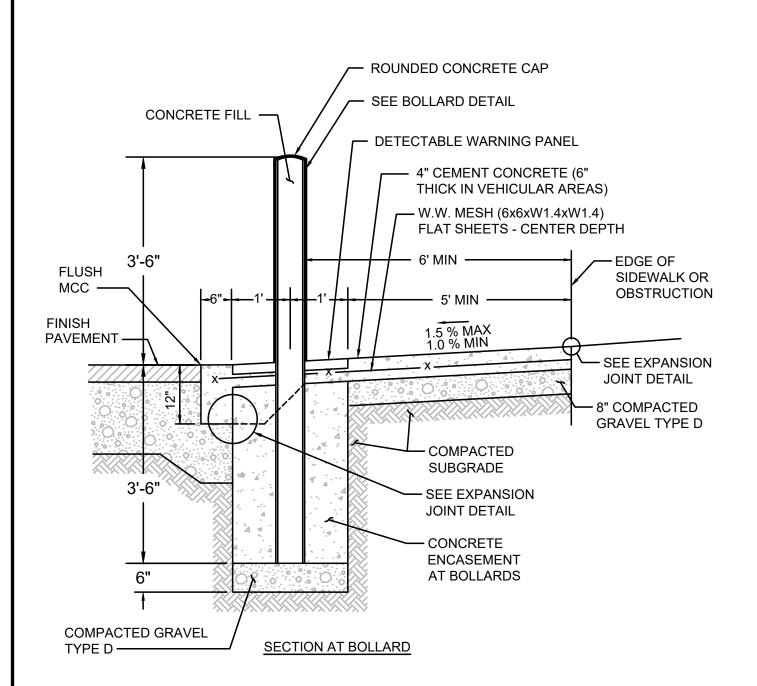
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY

Whb HNTB BOSTON, MA 02110 (617) 728-7777 Withaf Karey ISSUE DATE DESCRIPTION PROJECT MANAGER PROJECT MANAGER Date ISSUE DES. BY DR. BY CHK. BY HORIZ: NONE PLAN NO. 312081 VERT: NONE

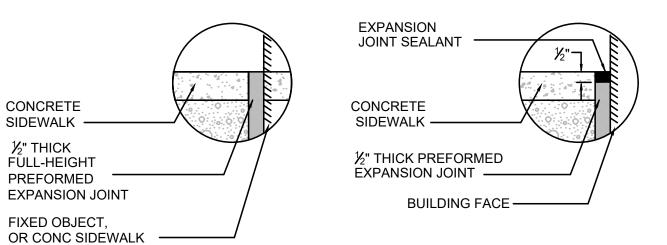
DATE: 04/24/2020

#### **BOLLARD MOUNTED SIGN**

SCALE: N.T.S.



 DETECTABLE WARNING PANEL - 4" CEMENT CONCRETE (6" THICK IN VEHICULAR AREAS) — W.W. MESH (6x6xW1.4xW1.4) FLAT SHEETS - CENTER DEPTH - EDGE OF FINISH PAVEMENT SIDEWALK OR **OBSTRUCTION** - SEE EXPANSION JOINT DETAIL 8" COMPACTED **GRAVEL TYPE D** — COMPACTED SUBGRADE



**EXPANSION JOINT DETAIL** 

4. REFER TO SPECIFICATION 02524 CURBING. **VERTICAL GRANITE CURB (VGC) IN FULL DEPTH PAVEMENT** SCALE: N.T.S.

6" BOLLARD

**VERTICAL GRANITE CURB** 

PAVEMENT

SEE PLANS

TACK COAT

4000 PSI CEMENT

**GRAVEL BORROW** 

6"

NOTES:

1. TO BE PLACED IF CURB IS INSTALLED AFTER BINDER IS IN PLACE.

2. CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB.

3. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL

TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE

MIN

**CONCRETE (SEE NOTES)** 

TYPE D

6" REVEAL (TYP) -

**BITUMINOUS CONC** 

SCALE N.T.S.

CONCRETE NOTES: SIDEWALK 1. CONCRETE FOR SIDEWALKS TO BE 4000 PSI TYPE ||, 6% (1.5±) AIR ENTRAINED.

2. PROVIDE EXPANSION JOINTS AT MAX 30 FT O.C. WITH PRE-FORMED EXPANSION JOINT FILLER. 3. PROVIDE TOOLED CONTROL JOINTS AT 6' O.C.

4. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB

## **BOLLARD AT MONOLITHIC CONC. CURB (MCC) & SIDEWALK**

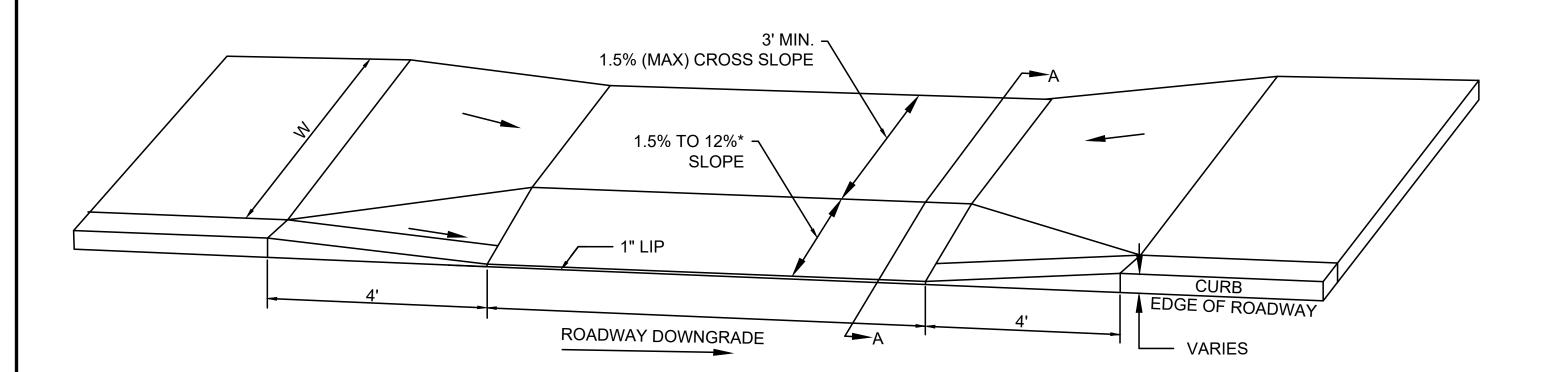
SCALE: N.T.S.

**SIGN POST** 

SCALE: N.T.S.

SECTION BETWEEN BOLLARDS

USED AS A SUBSTITUTE.



LEGEND

W = SIDEWALK WIDTH

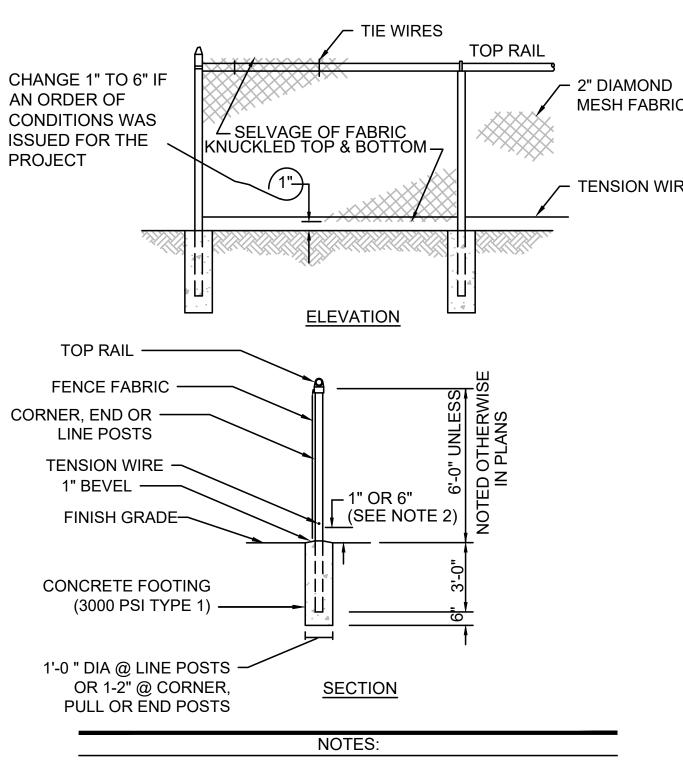
\* = TOLERANCE FOR CONSTRUCTION ± 0.5%

CC = CEMENT CONCRETE HMA = HOT MIX ASPHALT

3' MIN **VARIES** PATH OF **TRAVEL** 1.5% TO 12%\* SIDEWALK THICKNESS CC = 6" ∕− 1" LIP AT DRIVEWAYS ROADWAY 8" MIN **SECTION A-A** DRIVEWAY FOUNDATON

#### SIDEWALK THROUGH DRIVEWAYS

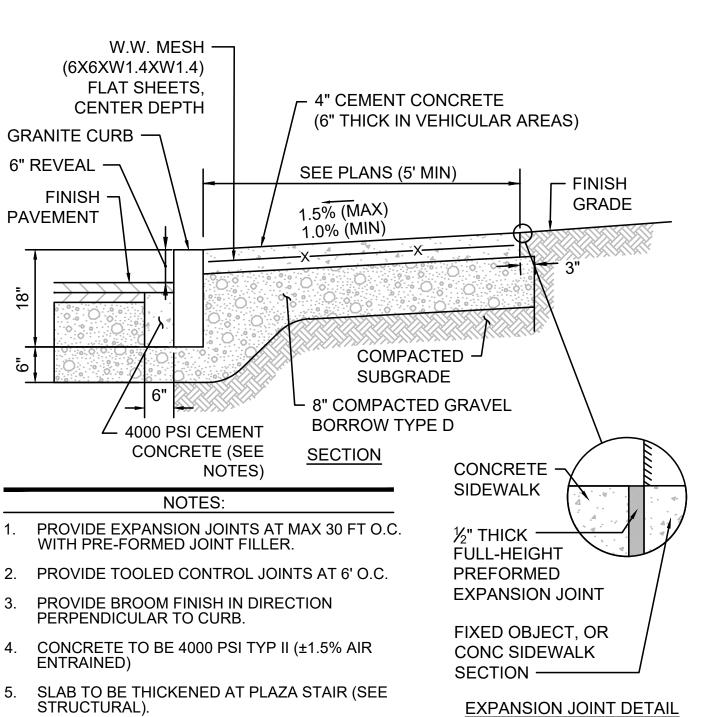
SOURCE: CITY OF NEW BEDFORD SCALE: N.T.S.



- 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.



## **CONCRETE SIDEWALK (SLAB ON GRADE) AT CURB**

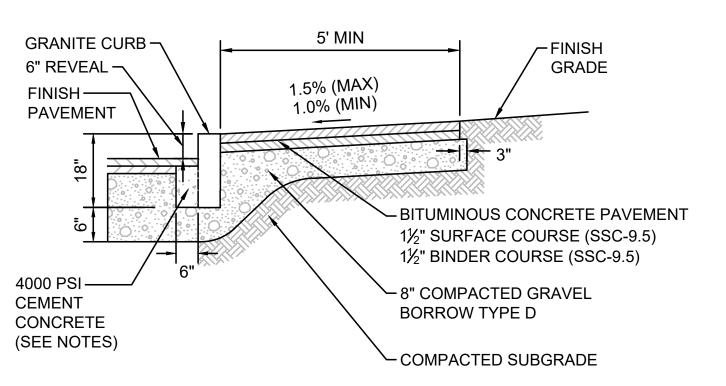
1/4" LIP MAX SEE NOTE 9 DETECTABLE WARNING **STRIP** 

#### NOTES:

- 1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 1.5% (1% MIN).
- 2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
- 3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE AT CURB RAMPS SHALL BE 7.5%.
- 4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
- 5. CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE.
- 6. RAMP, CURB, AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING
- 7. SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION
- 8. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5' x 5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
- 9. ELIMINATE CURBING AT RAMP (OTHER THAN VERTICAL CURBING, WHICH SHALL BE SET FLUSH) WHERE IT ABUTS ROADWAY.

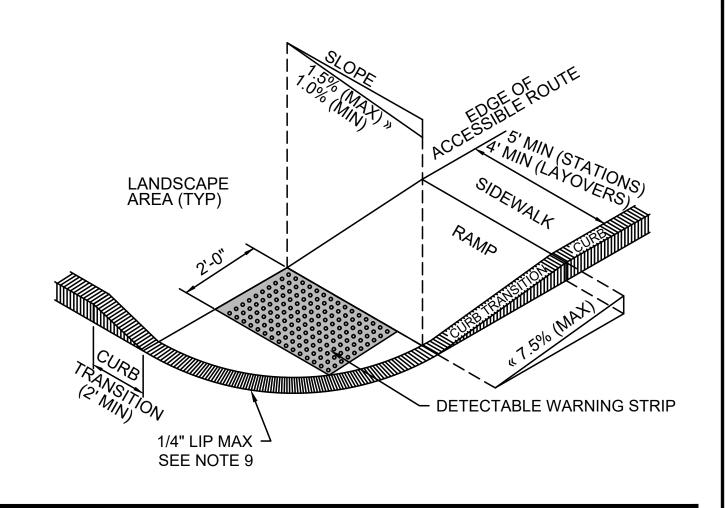
## **ACCESSIBLE CURB RAMP (ACR) TYPE 'Z-D'**

SCALE: N.T.S.



#### BITUMINOUS CONCRETE SIDEWALK AT CURB

SCALE: N.T.S.

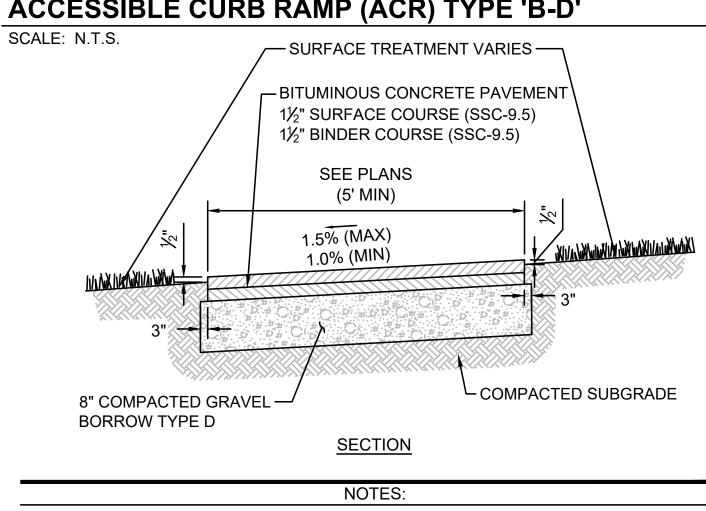


1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 1.5% (1% MIN).

NOTES:

- 2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
- 3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE AT CURB RAMPS SHALL BE 7.5%.
- 4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN
- ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
- 5. CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE.
- RAMP, CURB AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
- 7. SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION
- 8. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5' x 5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
- 9. ELIMINATE CURBING AT RAMP WHERE IT ABUTS ROADWAY, EXCEPT WHERE VERTICAL CURBING IS INDICATED ON THE DRAWINGS TO BE INSTALLED AND SET FLUSH.

## ACCESSIBLE CURB RAMP (ACR) TYPE 'B-D'



BOTH SURFACE AND BINDER MATERIAL SHALL BE DENSE MIX.

#### BITUMINOUS CONCRETE SIDEWALK IN LANDSCAPE

SCALE: N.T.S.

#### **ISSUED FOR BID**



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

#### **NEW BEDFORD MAIN LINE NEW BEDFORD STATION** SITE DETAILS 2

DATE DESCRIPTION

**Who HNTB**BOSTON, IMA UZ 1
(617) 728-7777 BOSTON, MA 02110 Wishaf Karen,

MASSACHUSETTS BAY TRANSPORTATION 99 HIGH STREET **AUTHORITY** APPROVED BY:

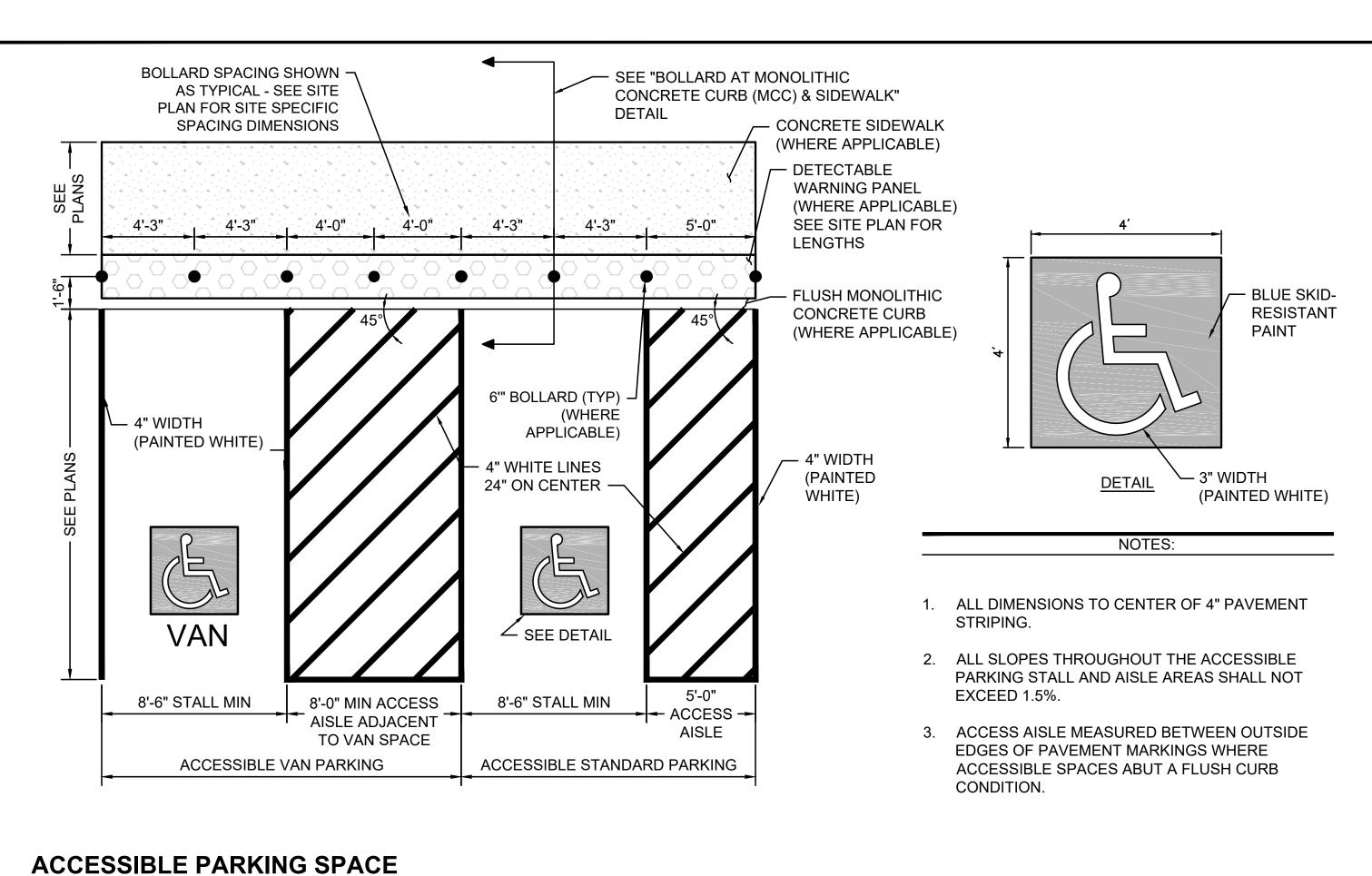
> Date ISSUE

PROJECT MANAGER PROJECT MANAGER DES. BY DR. BY CHK. BY HORIZ: NONE PLAN NO. 312082 VERT: NONE DATE: 04/24/2020 SHEET SD-402

MESH FABRIC **TENSION WIRE** 

STRUCTURAL).

WHEN ISOLATION JOINT IS AT A BUILDING, DEPTH OF JOINT FILLER SHALL BE PLACED TO FORM A MIN 1/2" DEEP RECESS FOR SEALANT BELOW FINISHED CONCRETE SURFACE.

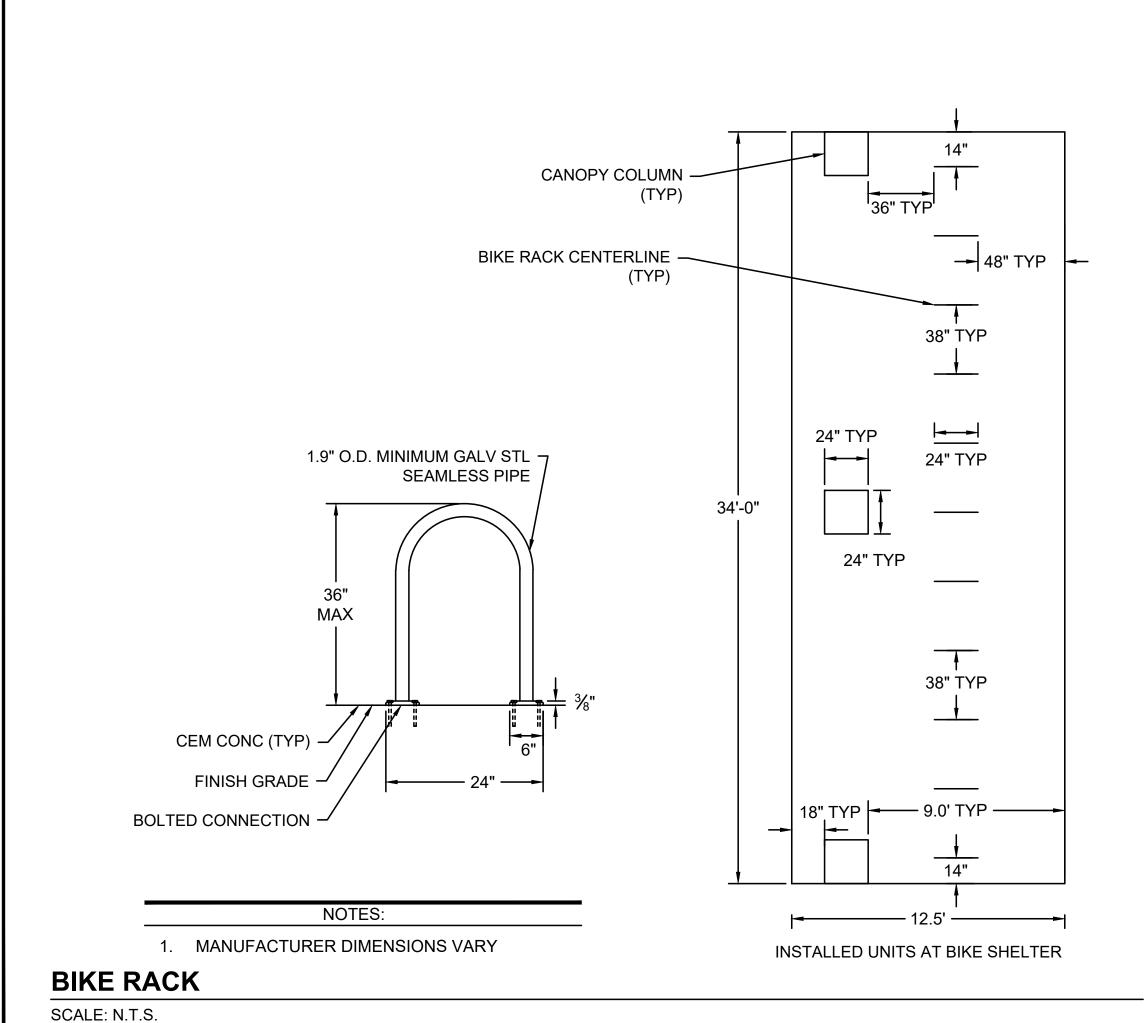


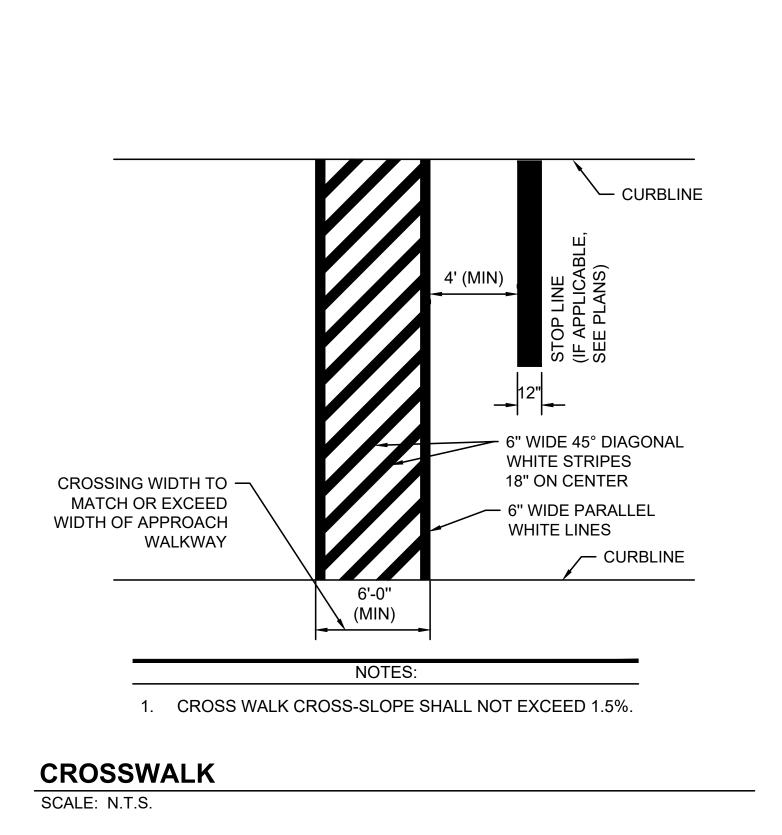
-LANDSCAPE AREA -EV CHARGER CONC PAD (TYP) -TIE INTO EXISTING CURB -SEE STRUC PLANS BOLLARD MOUNTED SIGN (TYP) EV CHARGER (TYP) -SEE ELEC PLANS 6" DIA BOLLARD (TYP) MBTA-3 - 3' TRANSITION 4" WIDTH VGC - (PAINTED  $\prec$ 24" ON CENTER GREEN) DETAIL 1 SEE DETAIL 2 > 6 / SEE DETAIL 1 -4" WIDTH (PAINTED WHITE) (MIN) 11' (MIN) 8.5' (MIN) 8.5' (MIN) 8.5' (MIN) **ACCESSIBLE PARKING** NOTES:

1. ALL DIMENSIONS TO CENTER OF 4" PAVEMENT STRIPING.

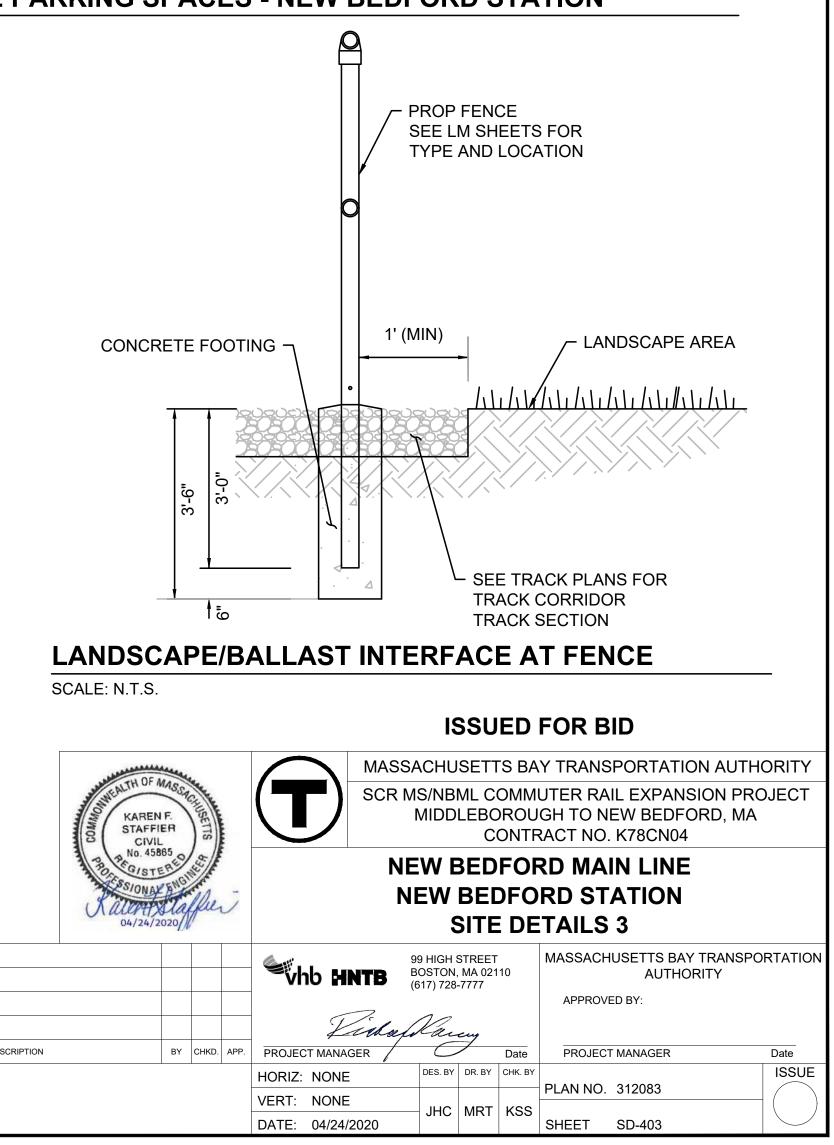
2. ALL SLOPES THROUGHOUT THE ACCESSIBLE PAKRING AND AISLE AREAS SHALL NOT EXCEED 1.5%.

ACCESSIBLE AND STANDARD ELECTRIC VEHICLE PARKING SPACES - NEW BEDFORD STATION





SCALE: N.T.S.



DETAIL 2

BLUE SKID-RESISTANT

PAINT

3" WIDTH

(PAINTED WHITE)

WHITE SKID-

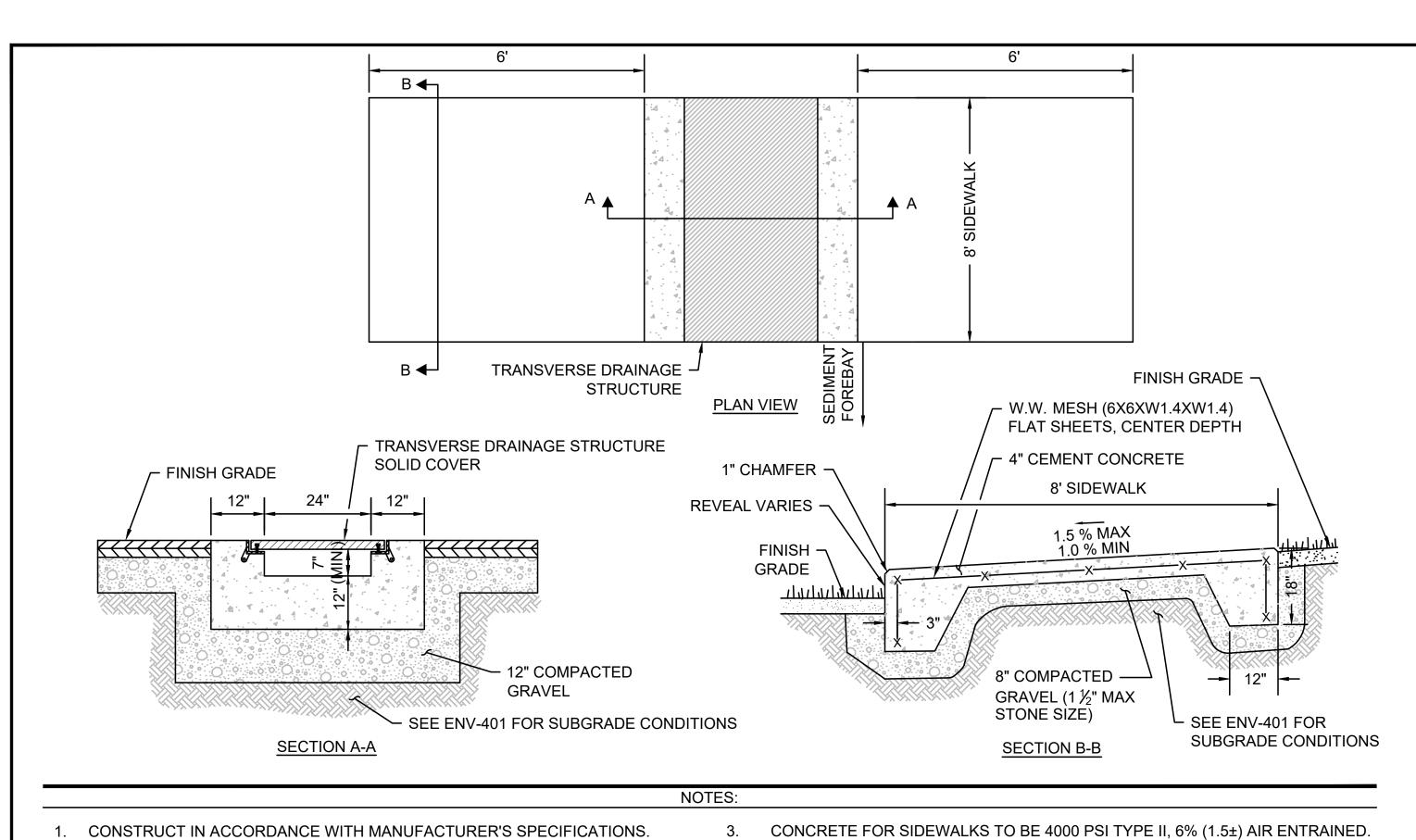
RESISTANT

- GREEN SKID-

RESISTANT

PAINT

PAINT



- CONSTRUCT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. SEE SPEC SECTION 02524 CURBING.
- 2. INVERT SLOPE SHALL BE SET TO SLOPE AT 1% TOWARD SEDIMENT FOREBAY.

#### SIDEWALK CURB INLET IN LANDSCAPE

SCALE: N.T.S.

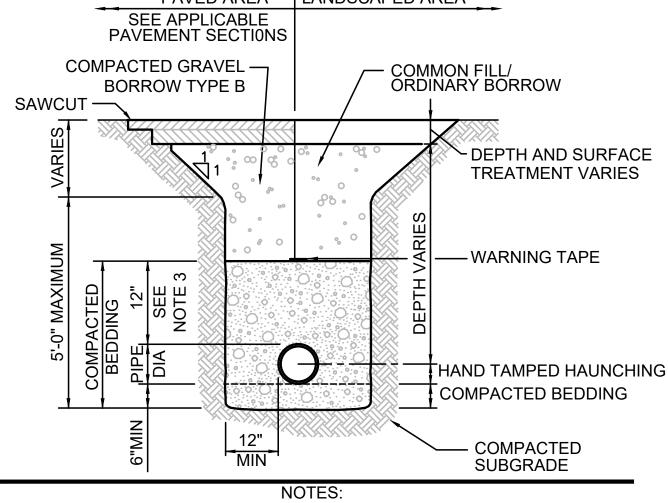
- 4. PROVIDE EXPANSION JOINTS AT EACH END WITH PRE-FORMED EXPANSION JOINT FILLER AND SEALER.
- 5. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO LINE OF TRAVEL.

CONC PAD METAL SITE BENCH 4'-0" 10' MIN **PLAN VIEW** - METAL SITE BENCH WITH **CENTER ARM REST** — 3/8" DIA X 2" L S.S. **LOCKING ANCHOR EXPANSION BOLTS &** NUTS (4 REQUIRED) — ABUTTING - 6" CEMENT CON. CONDITIONS CONC PAD SHALL BE FLUSH LANDSCAPED WITH ADJACENT PAVEMENT AREA OR — 8" COMPACTED GRAVEL WALL (SEE BORROW TYPE D PLANS) MIN MAX - PROVIDE STAINLESS **SECTION VIEW** COMPACTED STEEL SHIMS AT BENCH SUBGRADE LEGS AS REQUIRED TO PROVIDE 17" MIN, 19" MAX **SEAT HEIGHT** NOTES:

- PAVED AREA LANDSCAPED AREA SEE APPLICABLE PAVEMENT SECTIONS COMPACTED GRAVEL COMMON FILL/ ORDINARY BORROW BORROW TYPE B SAWCUT — DEPTH AND SURFACE TREATMENT VARIES - WARNING TAPE COMPACTED BEDDING - COMPACTED SUBGRADE NOTES:
- BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
- 2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
- FOR HDPE PIPE, DIMENSION IS 24 INCHES.
- REQUIREMENTS INCLUDING BUT NOT LIMITED TO THE USE OF SAND BEDDING
- 5. REFER TO SPECIFICATION SECTION 02300-EARTHWORK FOR MORE DETAILS.
- WHERE TRENCHING OCCURS IN EXISTING PAVED SURFACES, SAWCUT JOINTS
- 7. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT OF EXISTING PAVEMENT SHALL BE SEALED WITH HOT POURED RUBBERIZED ASPHALT SEALER AND BACKSANDED.

## SITE BENCH

SCALE: N.T.S.

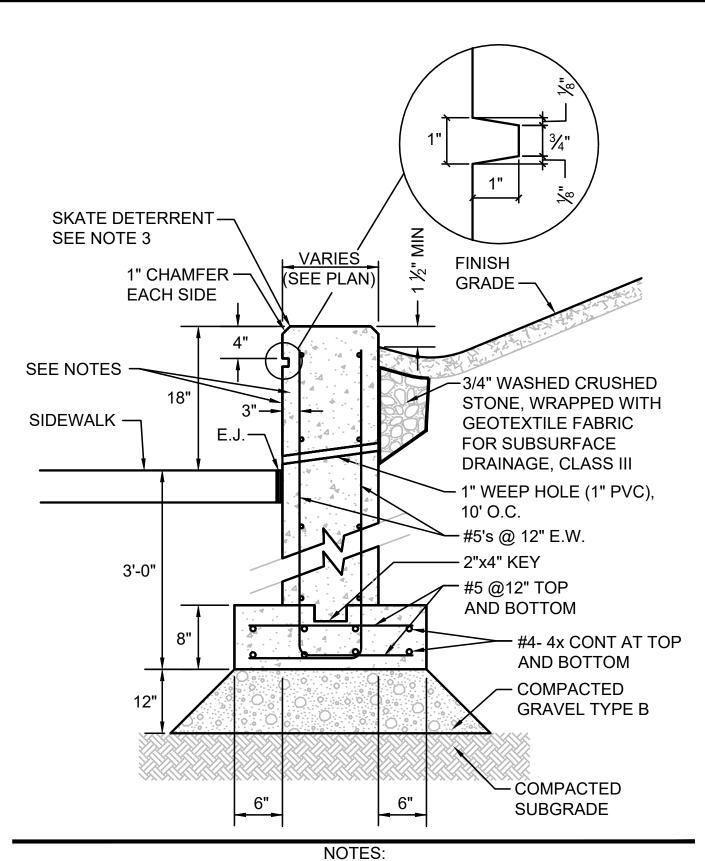


# WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN

- 4. UTILITY TRENCH FOR GAS PIPING SHALL COMPLY WITH GAS COMPANY AND WARNING TAPE PLACEMENT.
- SHALL BE STAGGERED IN ACCORDANCE WITH MASSDOT SPECIFICATIONS.

#### **UTILITY TRENCH**

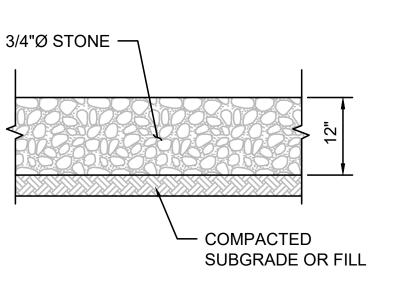
SCALE: N.T.S.



- CLEAR COVER TO REBAR SHALL BE 3" MIN TYP
- PROVIDE FORMLINER TYPE C FOR SEATWALL SKATE DETERRENTS SHALL BE PROVIDED AND SPACED 36" O.C. AND 12"
- FROM END OF WALL. SKATE DETERRENTS SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS SECTION 05500, AND SHALL BE INSTALLED 36" O.C. AND 12" FROM ENDS OF WALLS.

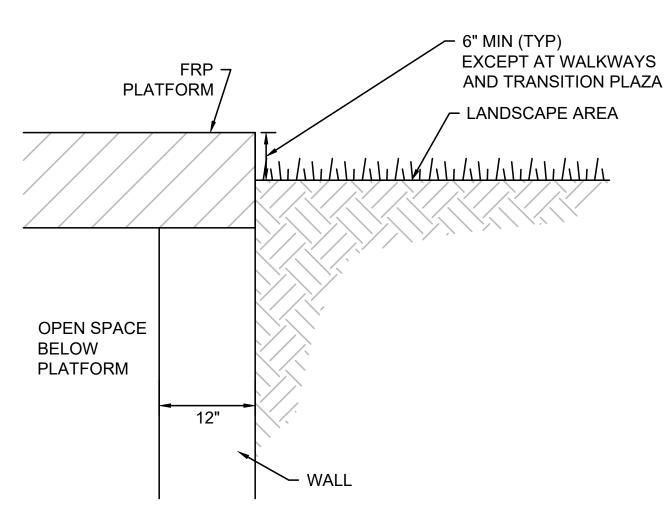
#### **SEAT WALL**

SCALE: N.T.S.



#### CRUSHED STONE PAD FOR EQUIPMENT AREA

SCALE: N.T.S.



## TYPICAL PLATFORM EDGE AT LANDSCAPE

SCALE: N.T.S.

#### **ISSUED FOR BID**



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

#### NEW BEDFORD MAIN LINE **NEW BEDFORD STATION SITE DETAILS 4**

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ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PR
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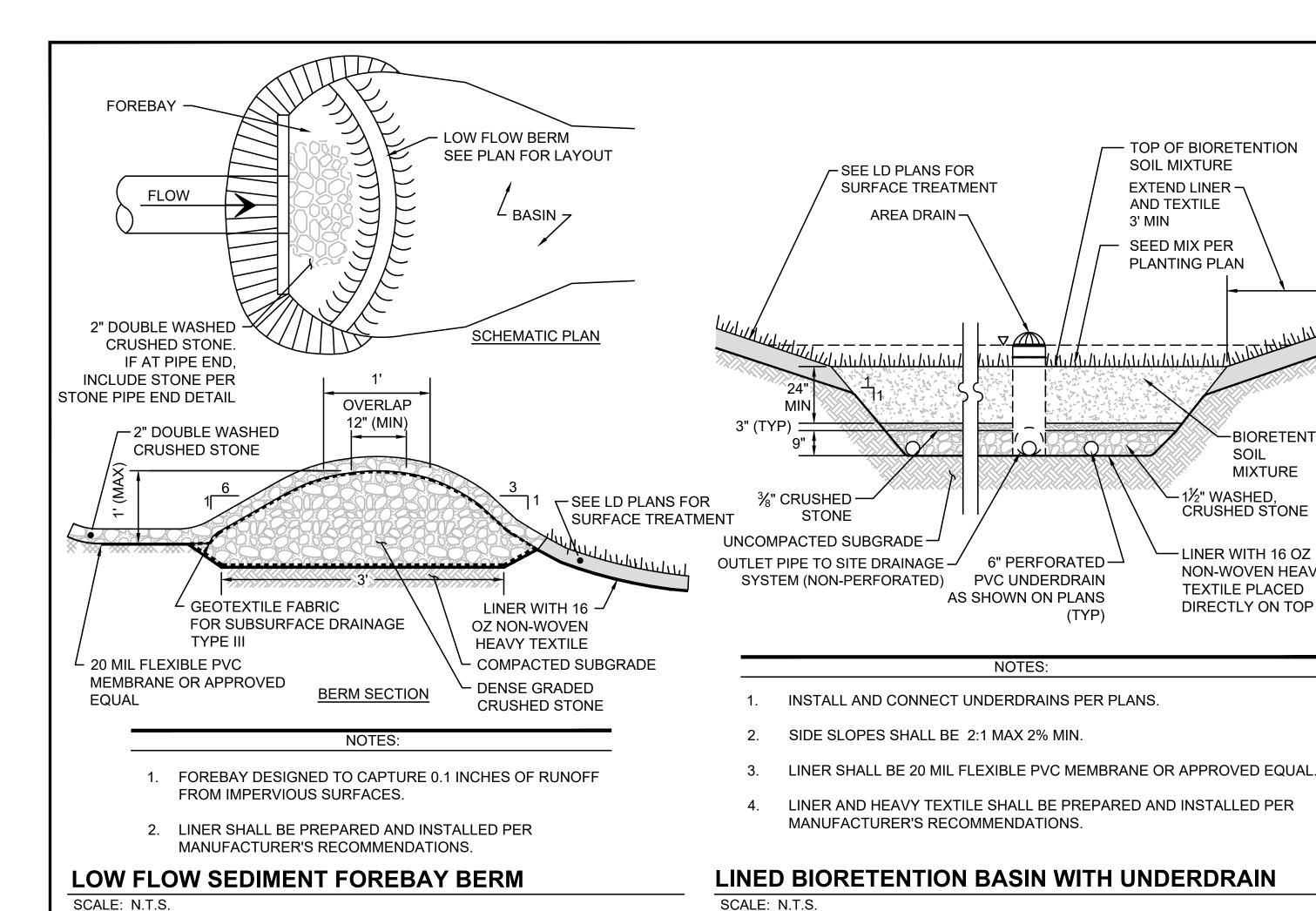
MASSACHUSETTS BAY TRANSPORTATION **Thb HNTB**BOSTON, MA 02110
(617) 728-7777 **AUTHORITY** APPROVED BY:

ISSUE

Tilla Sany OJECT MANAGER PROJECT MANAGER

DES. BY DR. BY CHK. BY RIZ: NONE PLAN NO. 312084 RT: NONE DATE: 04/24/2020 SHEET SD-404

1. SEE SPECIFICATION SECTION 02470 SITE IMPROVEMENTS



SEE LD PLANS ¬ DOME GRATE - SEE PLAN FOR FINISHED FOR RIM ELEVATION **COVER TYPE** DIAMETER SEE NOTE 2 COMPACTED GRAVEL TYPE D FLOW PIPE SIZE PER PLANS (REFER TO UTILITY TRENCH 4" SUM (MIN) DETAIL) COMPACTED **SUBGRADE** NOTES:

AREA DRAINS SHALL BE COLOR BLACK.

2. ALL AREA DRAINS SHALL BE 12" DIAMETER DOME GRATE UNLESS OTHERWISE NOTED.

## AREA DRAIN (AD) IN LANDSCAPE

SCALE: N.T.S.

-BIORETENTION

SOIL

CRUSHED STONE

- LINER WITH 16 OZ

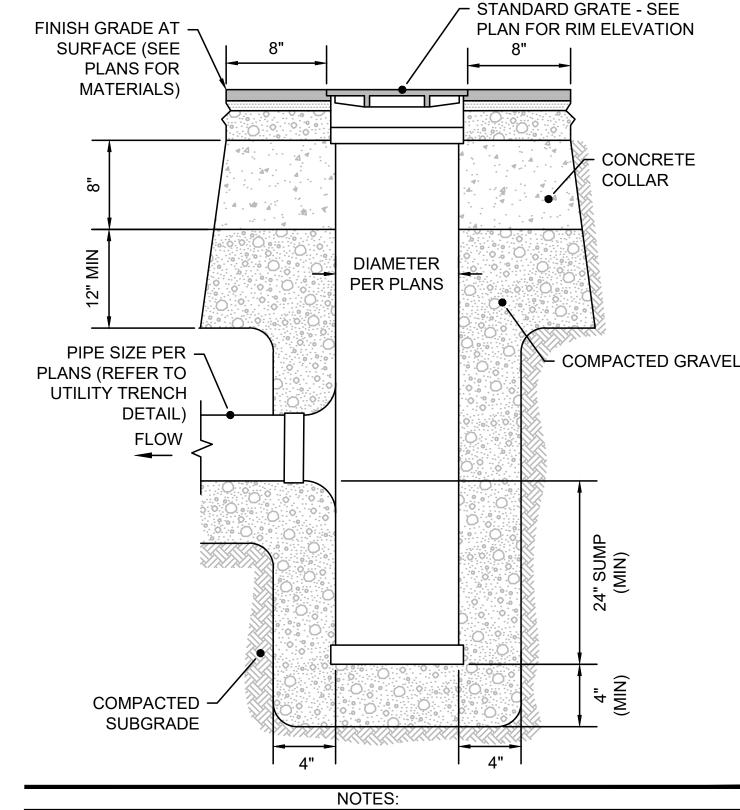
**TEXTILE PLACED** 

DIRECTLY ON TOP

NON-WOVEN HEAVY

 $1\frac{1}{2}$ " WASHED,

**MIXTURE** 

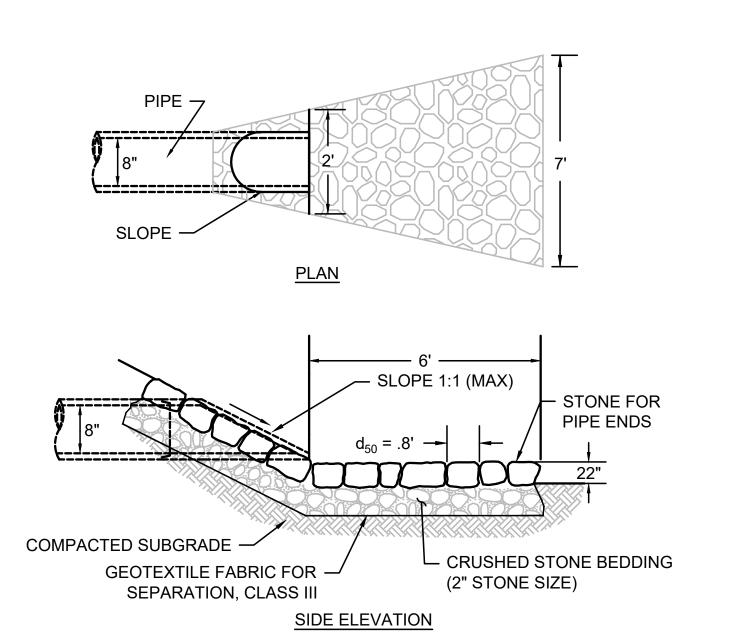


1. AREA DRAINS SHALL BE COLOR BLACK.

2. GRATES WITH ELONGATED OPENINGS SHALL BE PLACED WITH THE LONG DIMENSION PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

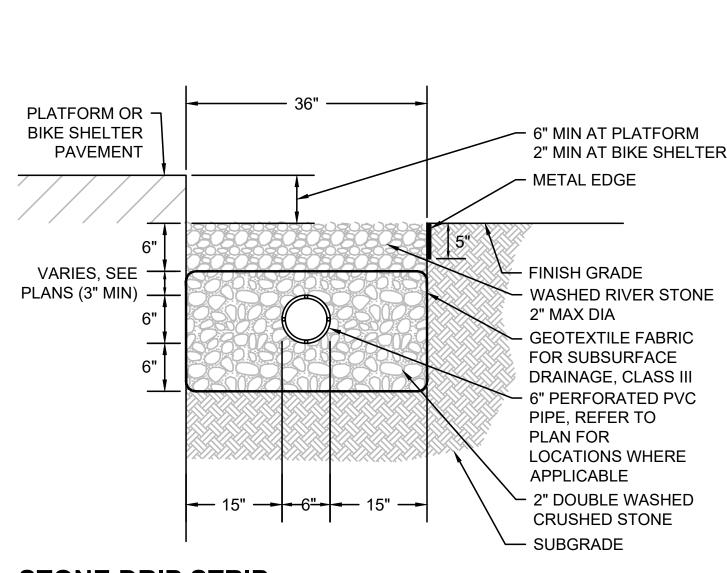
#### **AREA DRAIN (AD) IN PAVEMENT**

SCALE: N.T.S.



**STONE FOR PIPE END - 8"** 

SCALE: N.T.S.



2" MIN AT BIKE SHELTER

**STONE DRIP STRIP** 

SCALE: N.T.S.

— PAVEMENT — 1" DIA CRUSHED STONE — LANDSCAPE METAL EDGE \_ LANDSCAPE AREA

## PRETREATMENT FILTER STRIP

SCALE: N.T.S.





MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

### **NEW BEDFORD MAIN LINE NEW BEDFORD STATION SITE DETAILS 5**

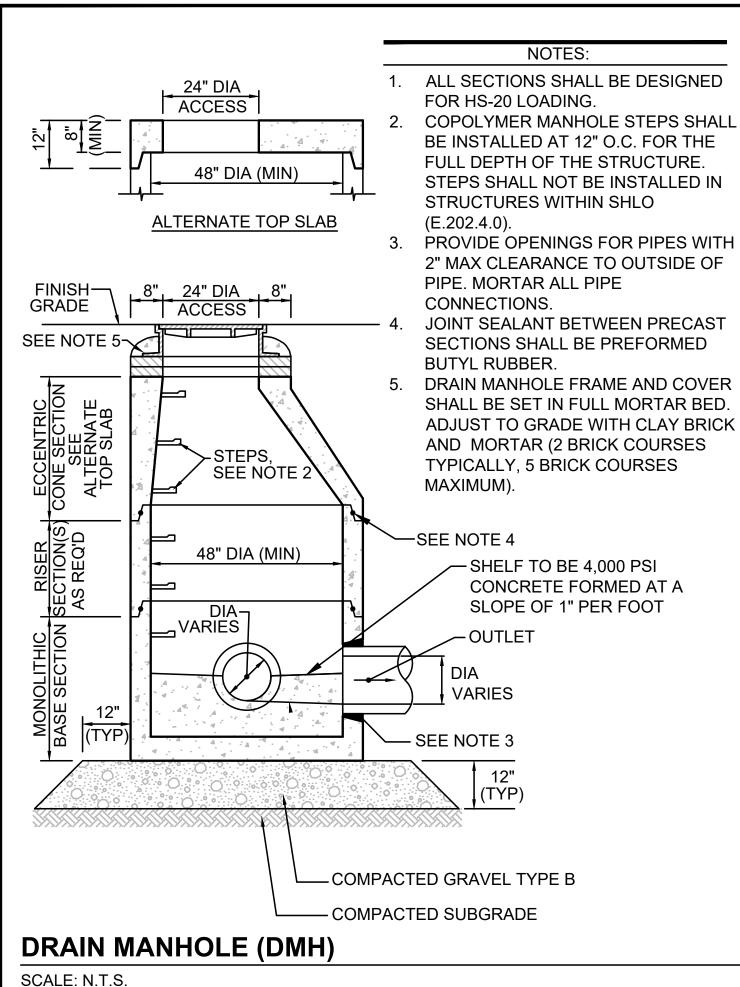
AUTHORITY

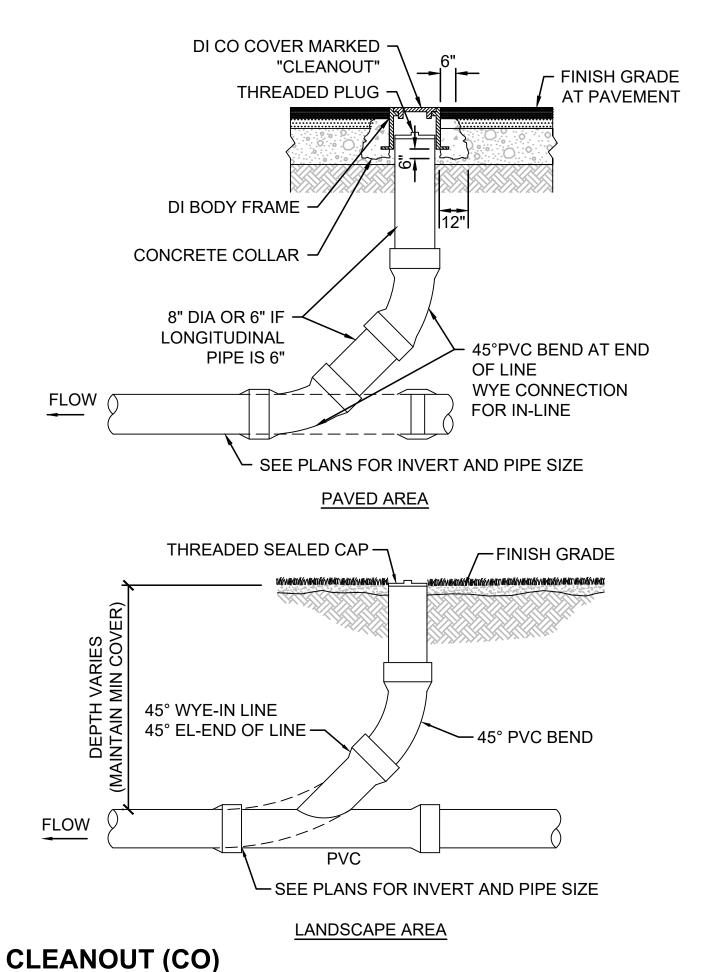
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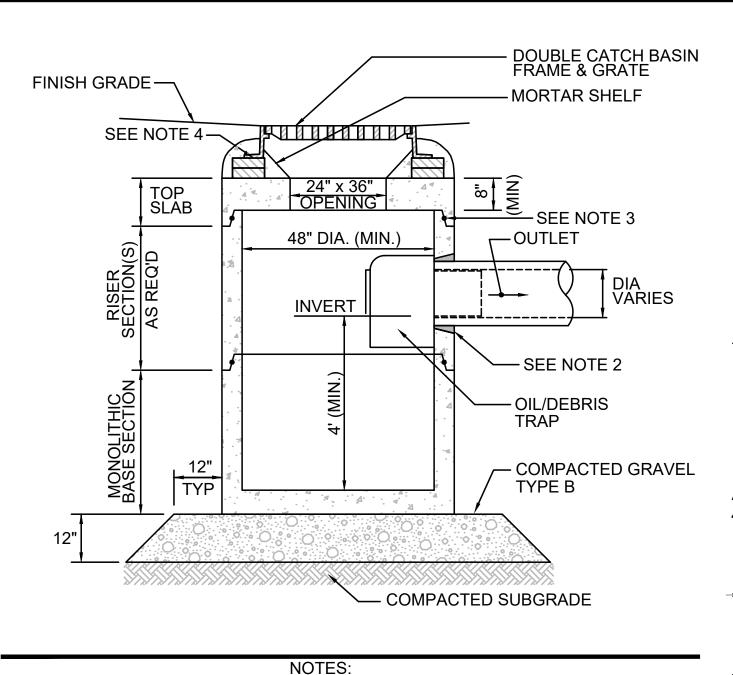
BY CHKD. APP. PROJECT MANAGER

MASSACHUSETTS BAY TRANSPORTATION Whb HNTB BOSTON, MA 02110 (617) 728-7777 APPROVED BY:

PROJECT MANAGER DES. BY DR. BY CHK. BY HORIZ: NONE PLAN NO. 312085 VERT: NONE DATE: 04/24/2020 SHEET SD-405





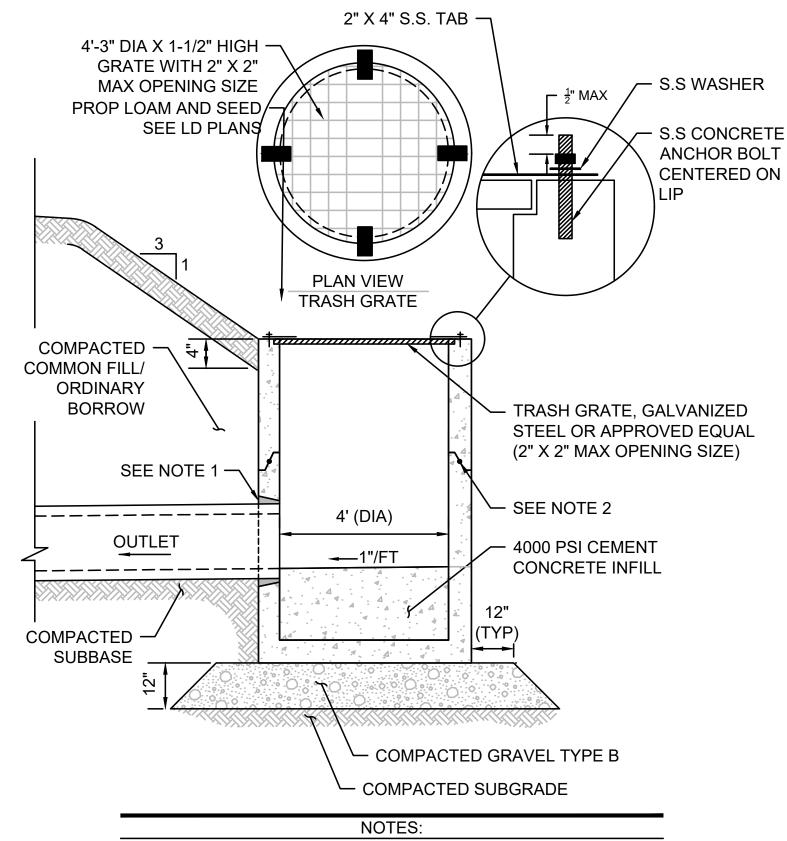


1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.

- 2. PROVIDE OPENINGS FOR PIPES WITH 2" MAX CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
- 3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
- 4. DOUBLE CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICKS TYPICALLY, 5 BRICK COURSES MAXIMUM).

#### **DOUBLE GRATE CATCH BASIN (DCB)** WITH OIL/DEBRIS TRAP

SCALE: N.T.S.

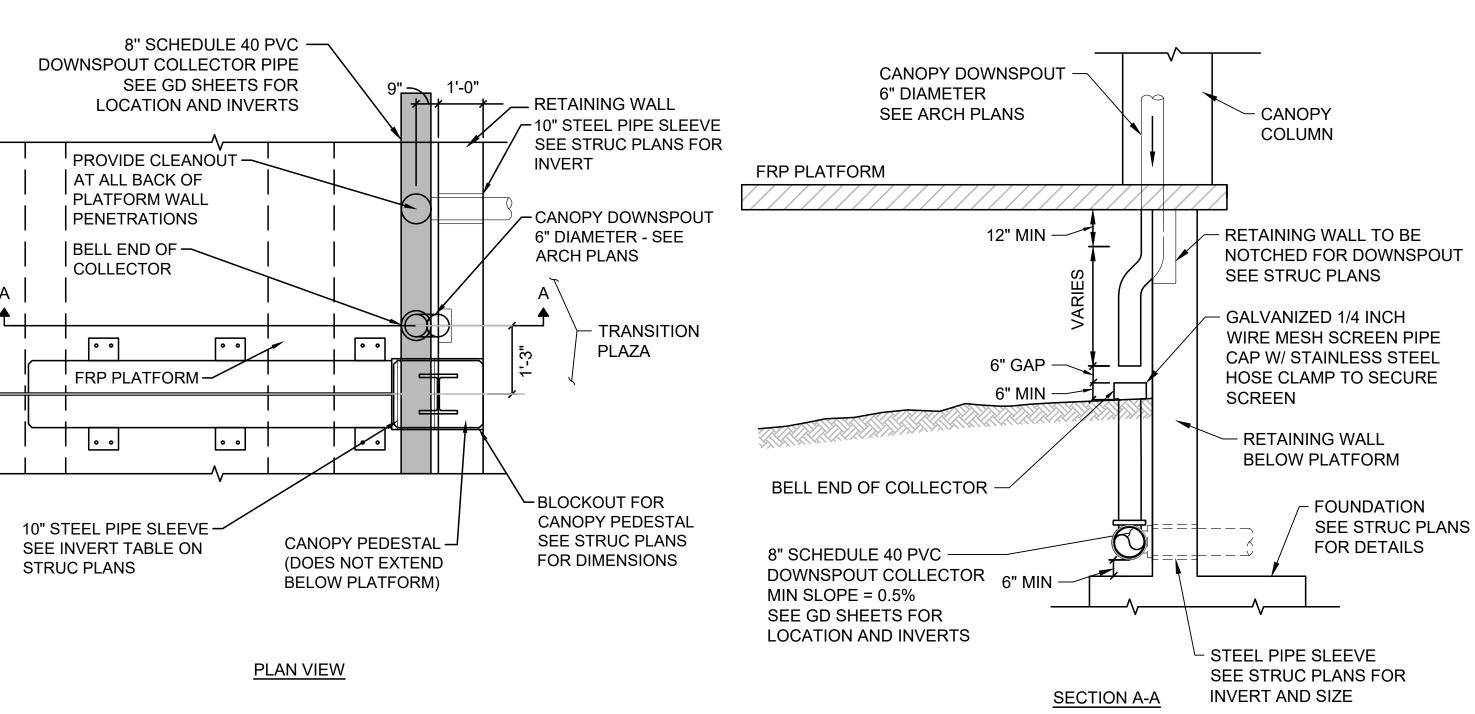


PROVIDE OPENINGS FOR PIPES WITH 2" MAX CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS. 2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE

## **OUTLET CONTROL STRUCTURE (OCS)**

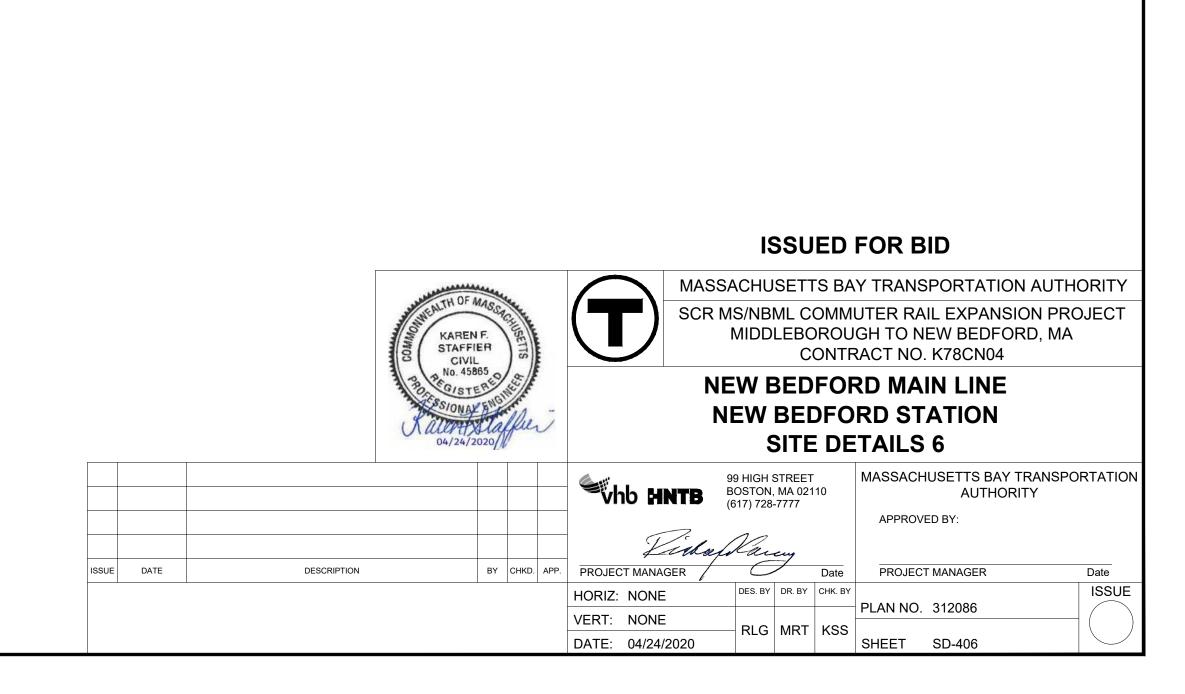
PREFORMED BUTYL RUBBER.

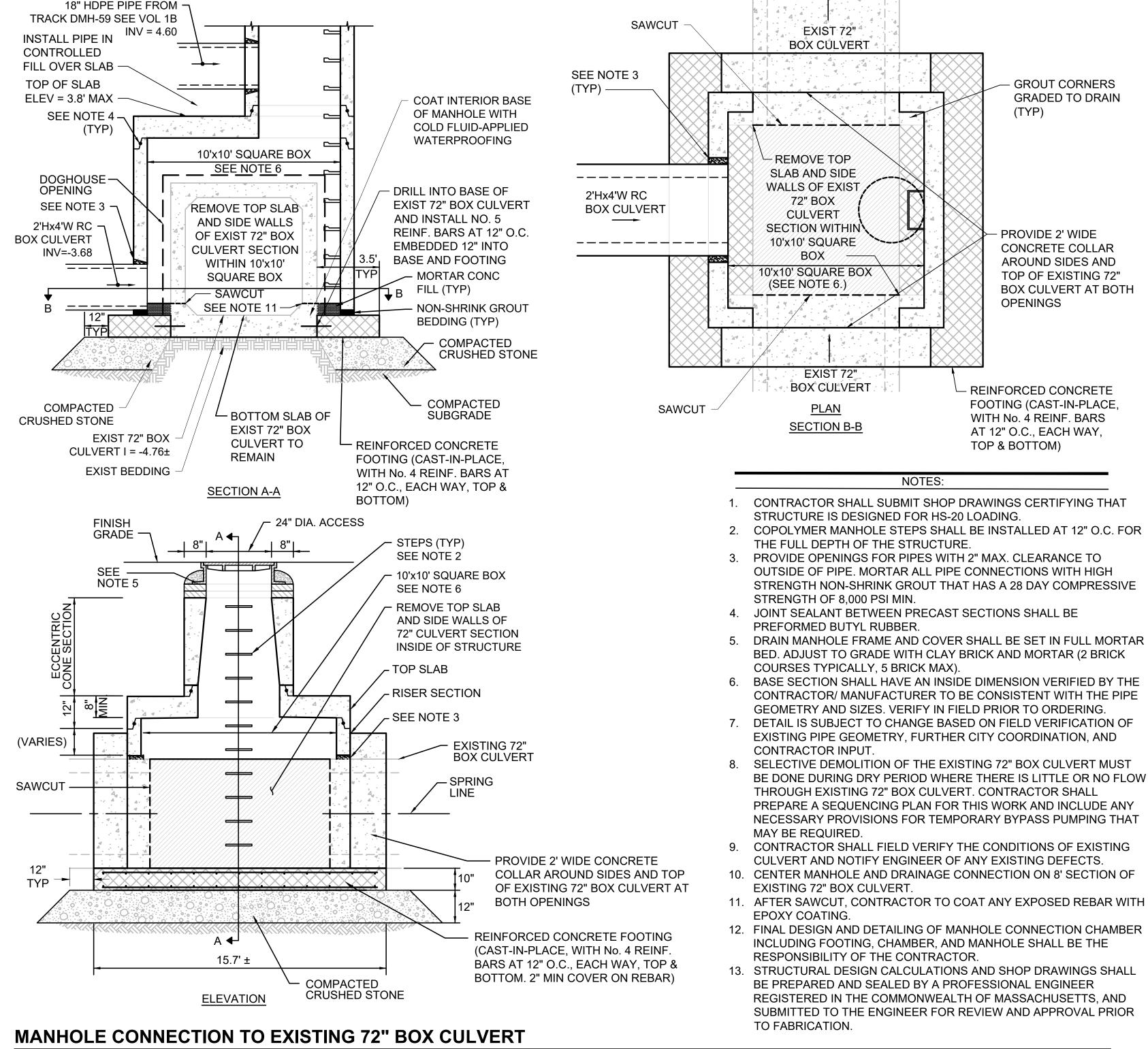
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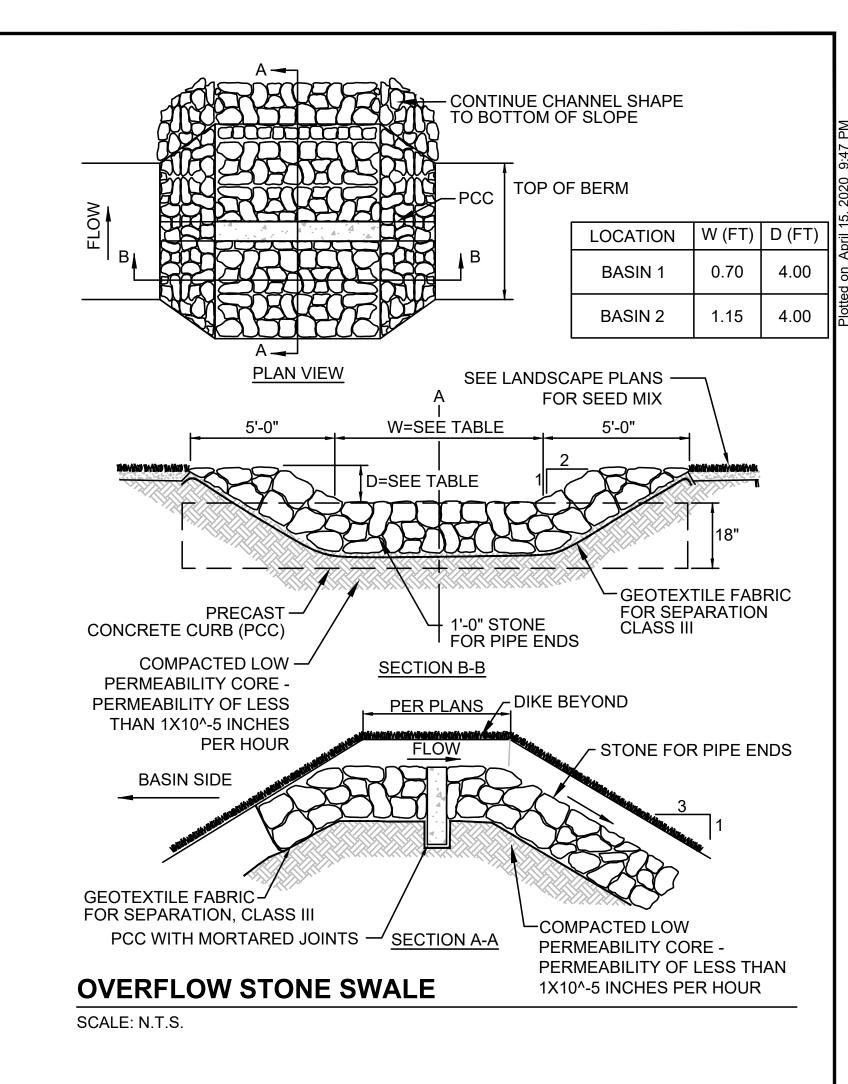


#### DOWNSPOUT CONNECTION TO COLLECTOR

SCALE: N.T.S.







#### ISSUED FOR BID



MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT
MIDDLEBOROUGH TO NEW BEDFORD, MA
CONTRACT NO. K78CN04

# NEW BEDFORD MAIN LINE NEW BEDFORD STATION SITE DETAILS 7

SHEET SD-407

								<b>7</b>	. –				
						With MINTE	99 HIGH STREET BOSTON, MA 02110 (617) 728-7777		BOSTON, MA 02110			MASSACHUSETTS BAY TRANS AUTHORITY	3PORTAT
										APPROVED BY:			
						Like f.	Nac	cuj					
SSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PROJECT MANAGER	-c	7	Date	PROJECT MANAGER	Date		
						HORIZ: NONE	DES. BY	DR. BY	CHK. BY		ISSI		
						VERT: NONE				PLAN NO. 312087	-		

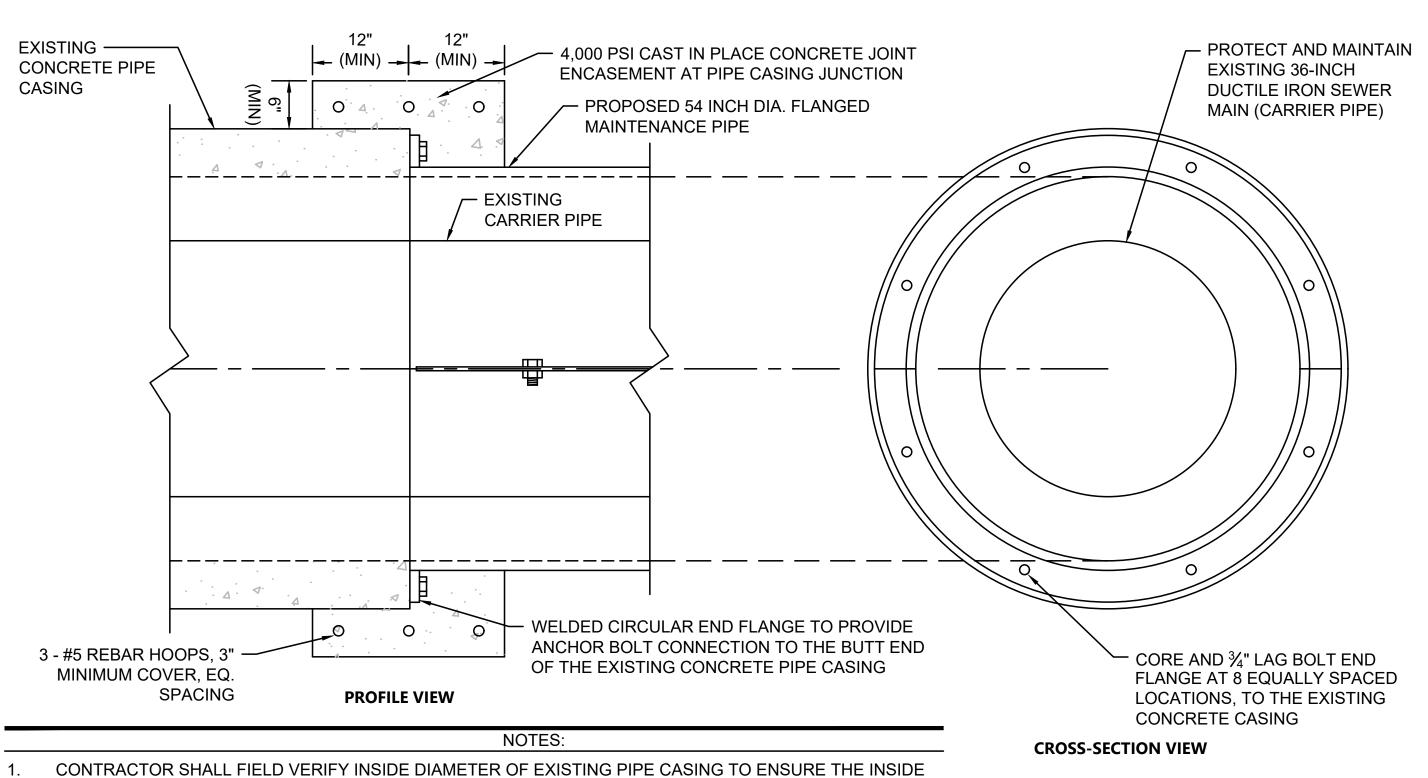
DATE: 04/24/2020

FILE NAME: \\VHB\GBL\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\CV\STATIONS\SEGMENT3

- 1. CONTRACTOR SHALL FIELD VERIFY INSIDE DIAMETER OF EXISTING PIPE CASING TO ENSURE THE INSIDE DIAMETER OF THE PROPOSED FLANGED MAINTENANCE PIPE WILL MATCH.
- CONSTRUCT 8" THICK BRICK BULKHEAD AT THE END OF THE PROPOSED PIPE CASING OR PROVIDE APPROVED EQUIVALENT END SEAL IN CONFORMANCE WITH MBTA RAILROAD OPERATIONS DIRECTORATE, PART IV - PIPELINE OCCUPANCY SPECIFICATIONS SECTION 6.
- EXTERIOR SURFACE OF STEEL PIPE CASING SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL

#### PIPE CASING EXTENSION CONNECTION

SCALE: N.T.S.



- EXISTING 36-INCH **DUCTILE IRON SEWER** MAIN (CARRIER PIPE) FOUR 6-FT LONG WOOD SKIDS REQUIRED PER PIPE LENGTH - PROPOSED 54 INCH DIA. FLANGED MAINTENANCE - BACKFILL WITH CONTROLLED DENSITY FILL TO 12-INCHES ABOVE THE CASING SAND FILL WITHIN ANNULAR SPACE BETWEEN CARRIER PIPE AND FLANGED MAINTENANCE PIPE (MADOT M1.04.0 TYPE A) - 4 STRANDS OF #7 AWG STEEL WIRE - SPACE EACH SET 2-FT ON CENTER - NOTCHES SHALL BE PROVIDED IN THE WOOD SKIDS, DEEP ENOUGH SO THAT THE SKIDS DO NOT RIDE ON THE WIRES NOTES:
- 1. THE SKIDS SHOULD BE SIZED TO ALLOW A VERTICAL DEFLECTION OF THE PIPE CASING OF 3 PERCENT OF THE CASING DIAMETER PLUS 1/2" SO THAT NO LOADS FROM THE TRACK, TRAFFIC OR CASING PIPE ARE TRANSMITTED TO THE CARRIER PIPE.
- 2. SEE UTILITY TRENCH DETAIL FOR ADDITIONAL INFORMATION

#### PIPE CASING EXTENSION CROSS-SECTION

SCALE: N.T.S.

#### **ISSUED FOR BID**





MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

#### **NEW BEDFORD MAIN LINE NEW BEDFORD STATION SITE DETAILS 8**

BY CHKD. APP. PROJECT MANAGER

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

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

SHEET SD-408

PROJECT MANAGER HORIZ: NONE PLAN NO. 312088 VERT: NONE DATE: 04/24/2020

PIPE CASING EXTENSION ALTERNATE CONNECTION

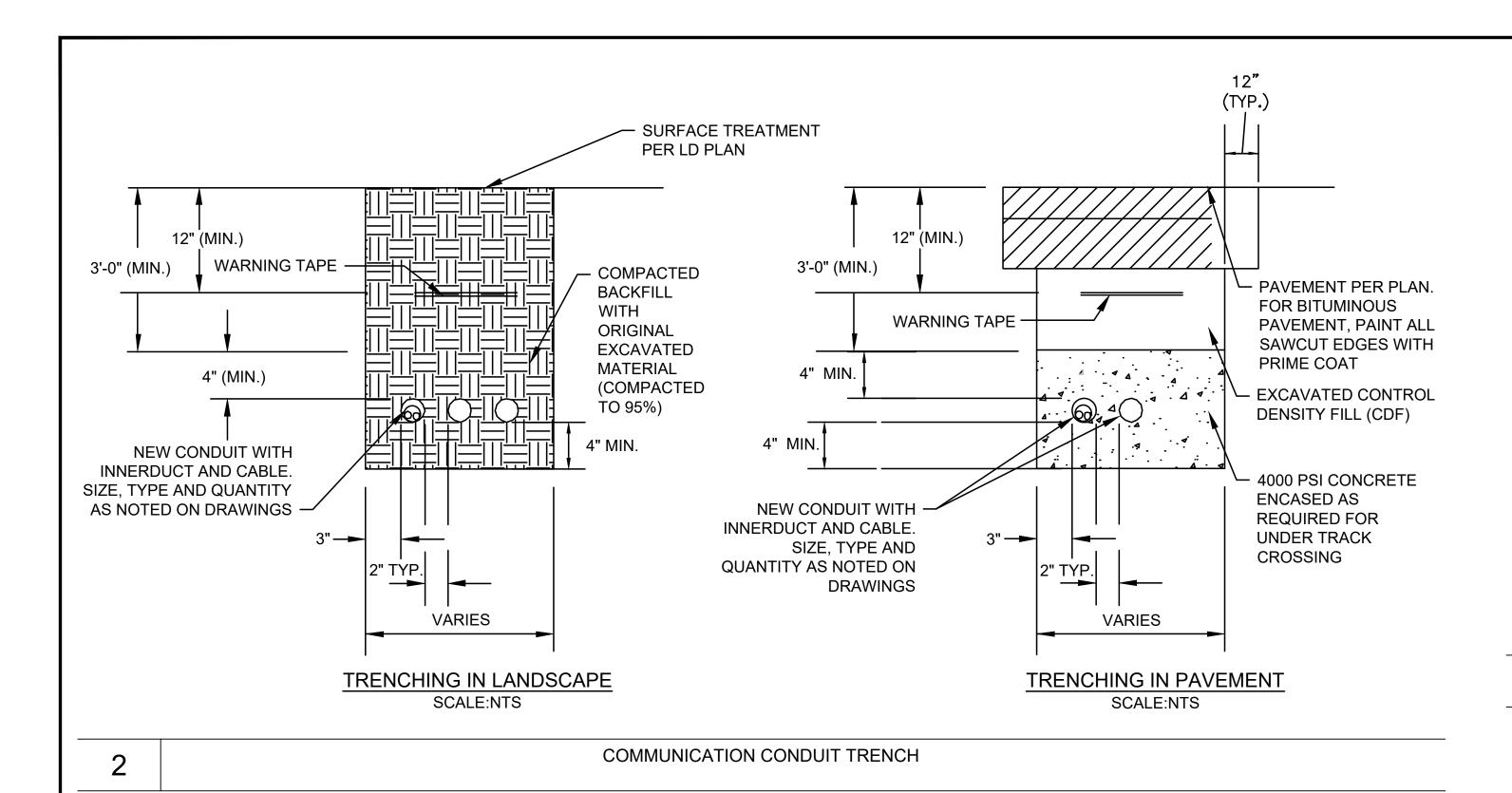
PART IV - PIPELINE OCCUPANCY SPECIFICATIONS SECTION 6.

DIAMETER OF THE PROPOSED FLANGED MAINTENANCE PIPE WILL MATCH.

CONSTRUCT 8" THICK BRICK BULKHEAD AT THE END OF THE PROPOSED PIPE CASING OR PROVIDE

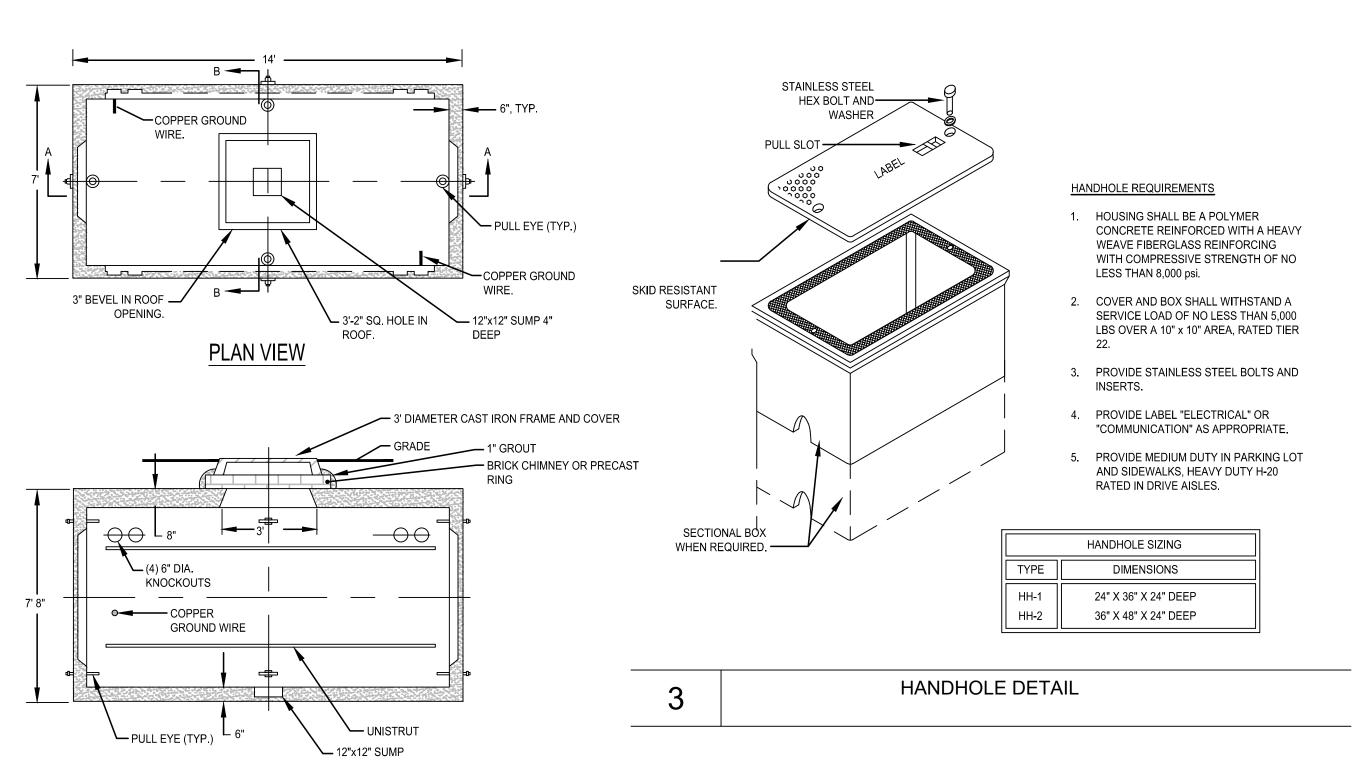
APPROVED EQUIVALENT END SEAL IN CONFORMANCE WITH MBTA RAILROAD OPERATIONS DIRECTORATE,

EXTERIOR SURFACE OF STEEL PIPE CASING SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING



PREVIOUSLY EXCAVATED EARTH, PREVIOUSLY EXCAVATED EARTH, FREE OF LARGE ROCKS; 3" FREE OF LARGE ROCKS; 3" WARNING TAPE -WARNING TAPE -IN ANY DIMENSION OR LARGER IN ANY DIMENSION OR LARGER 3" CONCRETE ENCASEMENT FOR SECONDARY SERVICE, PROVIDE 3" AROUND CONDUITS CONCRETE ENCASEMENT AROUND CONDUITS. FOR ALL OTHER CONDUITS PROVIDE 3" SAND SURROUND 2, 4" PVC FOR UTILITY — CONDUIT SPACERS — CONDUIT SPACERS NUMBER AND SIZE OF PRIMARY CABLING CONDUITS AS INDICATED ON PLANS OR RISER DIAGRAM └ 4" BETWEEN ALL CONDUITS **INCOMING UTILITY** SECONDARY SERVICE, FEEDERS & BRANCH PRIMARY N.T.S. CIRCUITS

ELECTRIC CONDUIT TRENCH



1. CHIMNEY HEIGHT IS KEPT TO A MINIMUM TO FACILITATE PLACING COMPLETED SPLICES IN HANDHOLE ABOVE GRADE.

SECTION A-A

2. ROOF OPENING 3'-2" x 3'-2".

NOTES:

MANHOLE DETAIL



#### **ISSUED FOR BID**

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA CONTRACT NO. K78CN04

#### **NEW BEDFORD MAIN LINE NEW BEDFORD STATION SITE DETAILS 9**

ISSUE DATE BY CHKD. APP. PROJECT MANAGER HORIZ: NONE

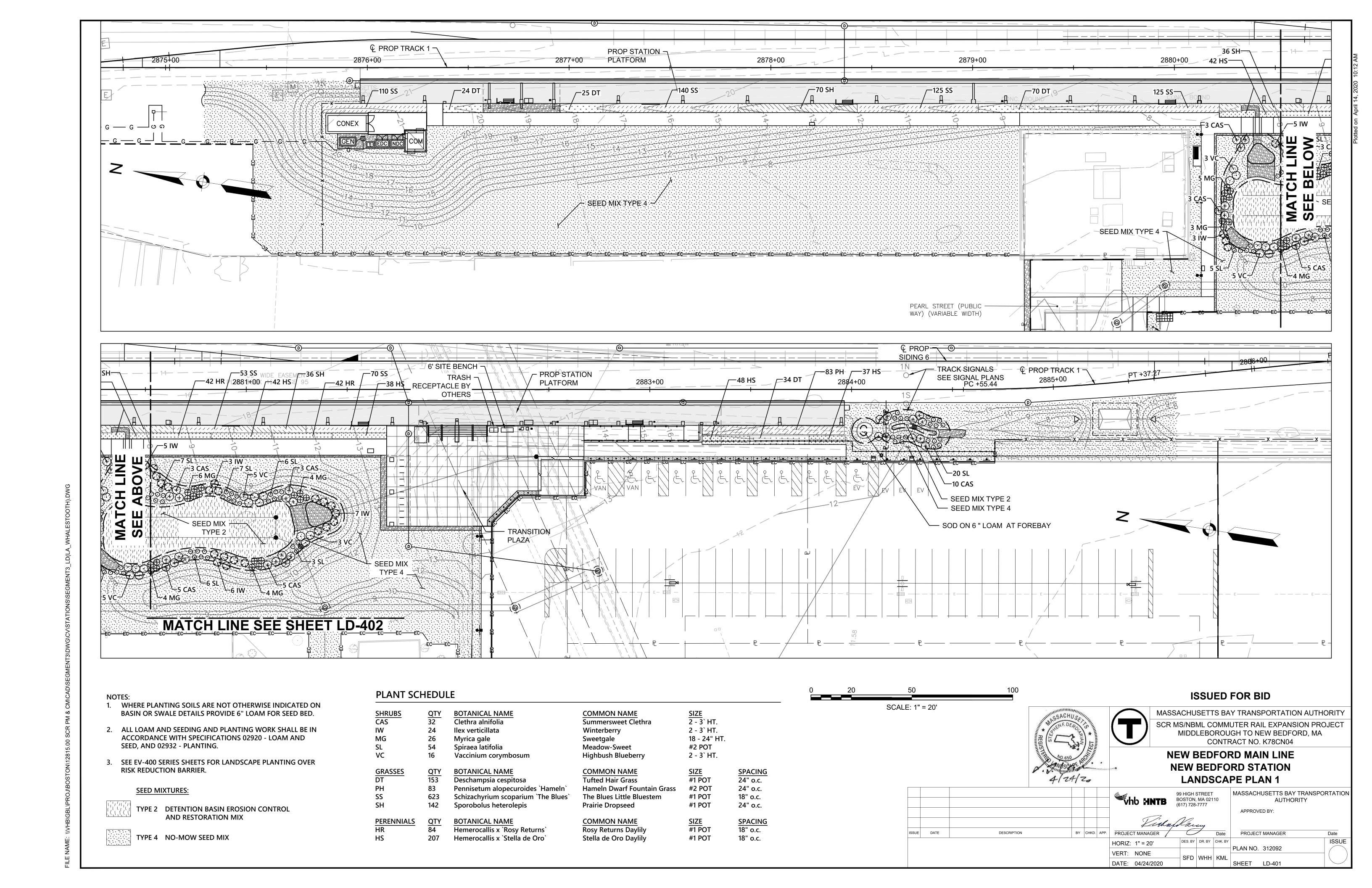
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

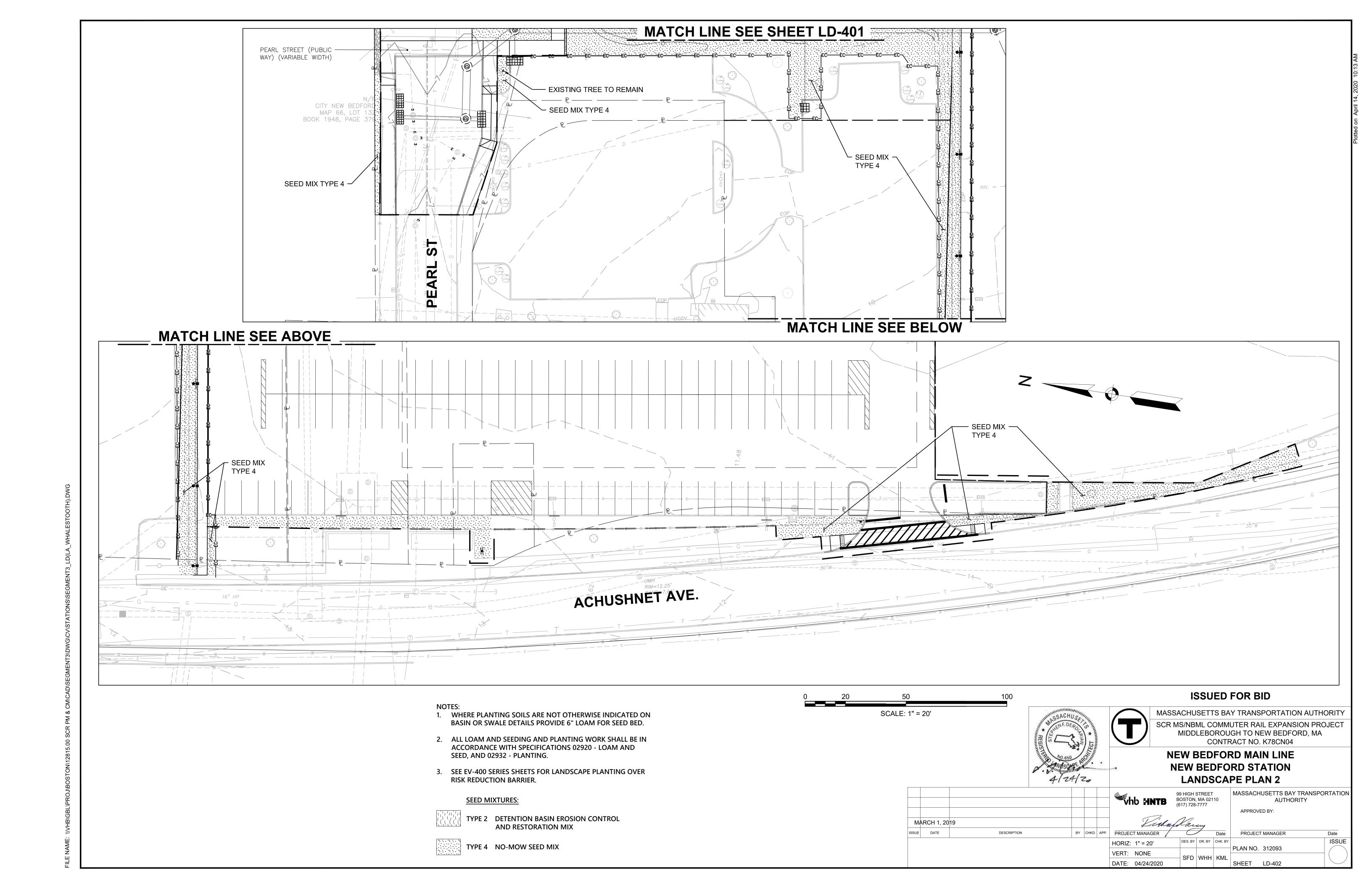
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY:

ISSUE

PROJECT MANAGER DES. BY DR. BY CHK. BY PLAN NO. 312089 VERT: NONE DATE: 04/24/2020 SHEET SD-409

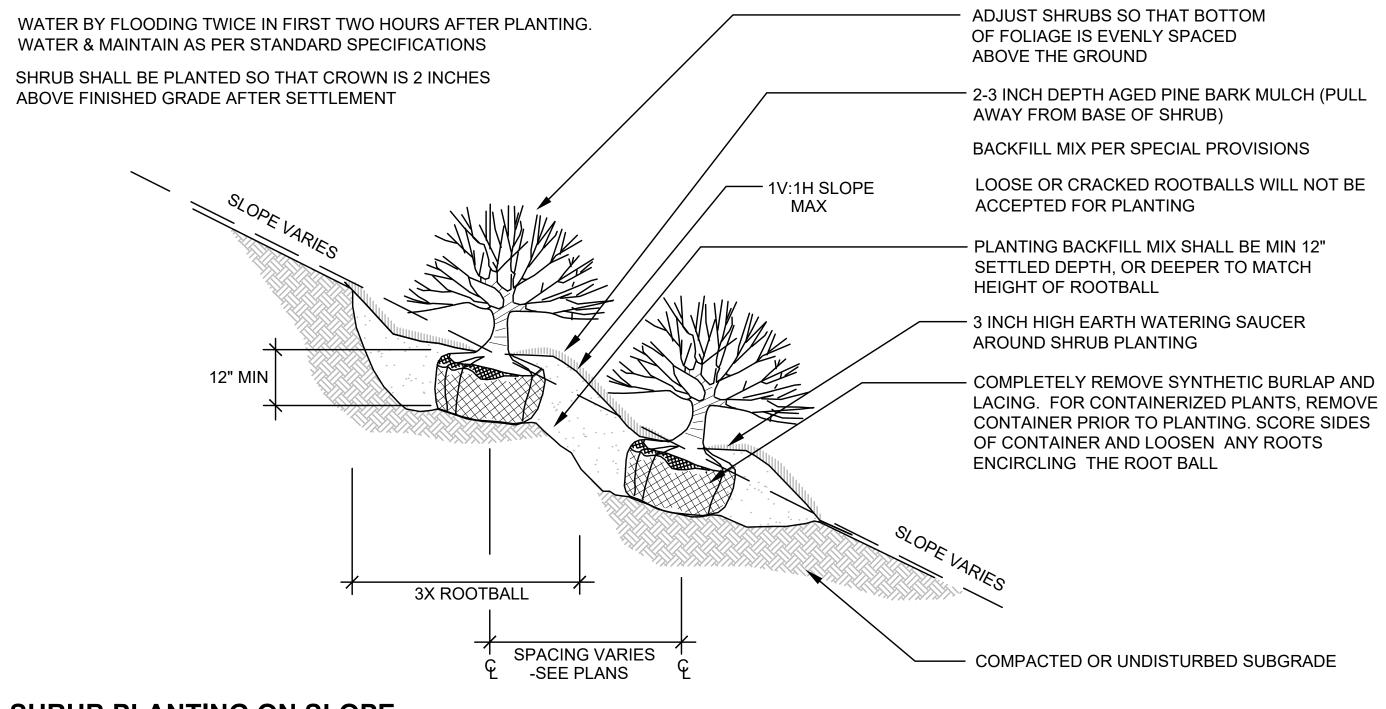
ELECTRICAL AND COMMUNICATION DETAILS SHOWN HEREON ARE FOR COORDINATION PURPOSES ONLY. REFER TO EL AND CM PLANS FOR ADDITIONAL INFORMATION.





#### SHRUB PLANTING

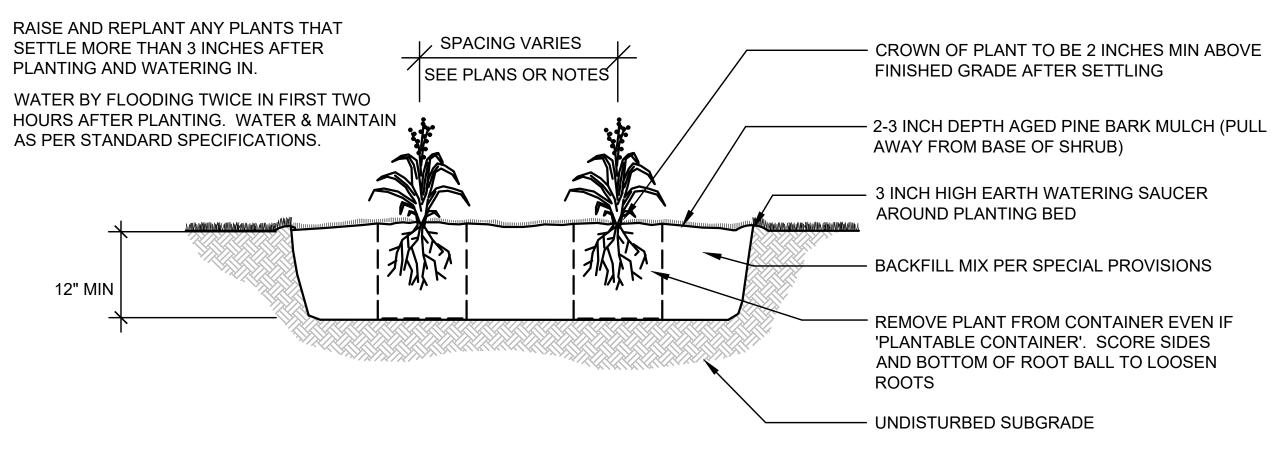
SCALE: N.T.S.



#### SHRUB PLANTING ON SLOPE

SCALE: N.T.S.

EXCAVATE TO REQUIRED DEPTH AND BACKFILL WITH PLANTING MIX.



### PERENNIAL PLANTING

SCALE: N.T.S.

#### NOTE:

ALL LOAM AND SEEDING AND PLANTING WORK SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTIONS 02920 -LOAM AND SEED, AND 02932 - PLANTING.





MASSACHUSETTS BAY TRANSPORTATION AUTHORITY SCR MS/NBML COMMUTER RAIL EXPANSION PROJECT MIDDLEBOROUGH TO NEW BEDFORD, MA

CONTRACT NO. K78CN04

**NEW BEDFORD MAIN LINE NEW BEDFORD STATION** LANDSCAPE DETAILS

**ISSUED FOR BID** 

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.	PRO
						HOF

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

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY APPROVED BY:

PROJECT MANAGER

ISSUE

PLAN NO. 312094 DATE: 04/24/2020 SHEET LD-403

Little Karry OJECT MANAGER RIZ: NONE

VERT: NONE