

SEA STREET PUMP STATION FORCE MAIN NO.3

TOWN OF NANTUCKET, MA
CWSRF #6722

SEPTEMBER 2021

FOR CONSTRUCTION

NANTUCKET SEWER DEPARTMENT

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NANTUCKET DEPARTMENT OF PUBLIC WORKS

NANTUCKET WATER DEPARTMENT

MARK WILLETT - DIRECTOR

NANTUCKET ADMINISTRATION

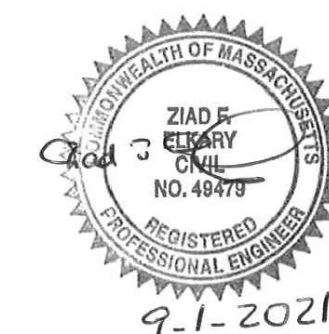
C. ELIZABETH GIBSON - TOWN MANAGER
ERIKA MOONEY - OPERATIONS ADMINISTRATOR

NANTUCKET SELECT BOARD

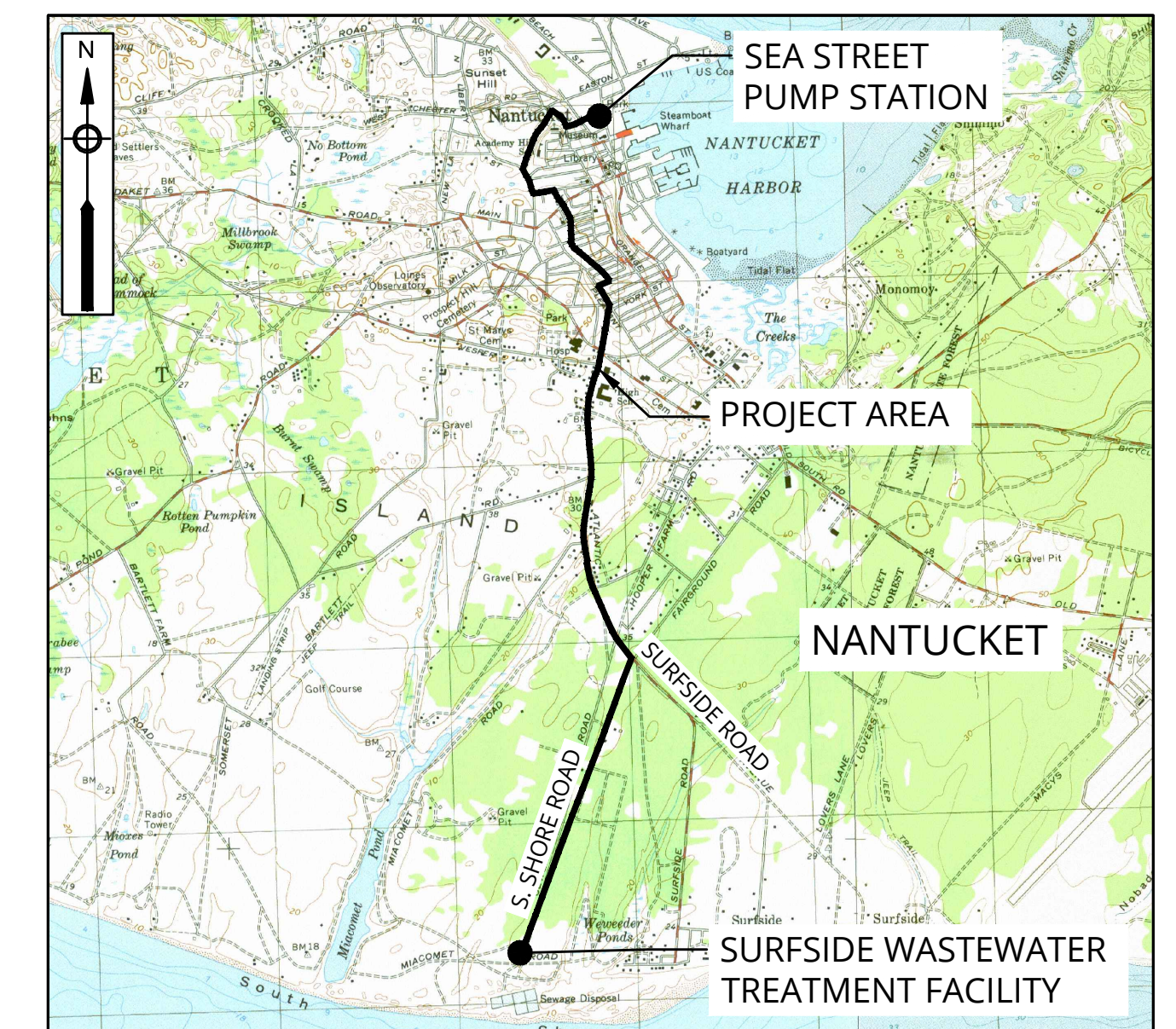
JASON BRIDGES - CHAIR
KRISTIE L. FERRANTELLA - VICE CHAIR
MATT FEE
DAWN E. HILL HOLDGATE
MELISSA MURPHY

OWNER'S PROJECT MANAGER

HAZEN AND SAWYER



ENVIRONMENTAL
 **PARTNERS**
— An Apex Company —



VICINITY MAP
1" = 3000'

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MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

**SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA**

INDEX OF DRAWINGS

FOR CONSTRUCTION
Sheet No.

G-1

GENERAL NOTES:

- BASE MAP INFORMATION IS BASED ON EXISTING CONDITION SURVEY PERFORMED BY COASTAL ENGINEERING CO. (OCTOBER 2020 - DECEMBER 2020) AND RECORD INFORMATION PROVIDED BY THE TOWN. THE BASIS OF BEARING FOR ALL SURVEYS IS AN APPROXIMATED NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVDB88) AND THE HORIZONTAL DATUM USED IS THE NORTH AMERICAN VERTICAL DATUM OF 1983 (NAD83). IT IS NOTED THAT ADDITIONAL UTILITY PIPES AND STRUCTURES MAY EXIST.
- ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY DIG SAFE AT LEAST 72 HOURS IN ADVANCE, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO ANY EXCAVATION. THE DIG SAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER.
- THE CONTRACTOR IS ADVISED TO TAKE ALL REASONABLE PRECAUTIONS AND MAKE ALL REASONABLE INVESTIGATIONS NECESSARY TO PERFORM THE WORK. THE OWNER WILL NOT CONSIDER CONTRACTOR'S UNFAMILIARITY WITH THE PROJECT OR SITE CONDITIONS AT THE TIME OF BID AS A BASIS FOR ADDITIONAL COMPENSATION.
- THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES, PRIVATE PROPERTY, OR WITHIN 100 FEET OF WETLANDS.
- NORTH DIRECTION SHOWN IS APPROXIMATE.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- THE CONTRACTOR SHALL RESTORE ALL DAMAGED PUBLIC AND PRIVATE PROPERTY TO ITS PRE-CONSTRUCTION CONDITION AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS TO TAKE SPECIAL CARE NOT TO DAMAGE TREES, BUSHES, PLANTS, FLOWERS, STONE WALLS, SEA WALLS, FENCES, ETC. WITHIN THE CONSTRUCTION AREA UNLESS THEY ARE NOTED TO BE REMOVED. CONTRACTOR SHALL REPLACE AT NO COST TO THE OWNER, ALL DAMAGED ITEMS.
- ALL EXISTING WATER, SEWER, AND STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE NOTED ON THE DRAWINGS OR DIRECTED BY THE TOWN OR THE ENGINEER. THE CONTRACTOR SHALL REPAIR ANY EXISTING WATER MAINS, WATER SERVICES, STORM DRAIN LINES, OR CULVERTS DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
- IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO THE RESPECTIVE UTILITY COMPANY. PAYMENT FOR TEMPORARY BRACING OF UTILITIES SHALL BE PAID FOR UNDER THE UTILITY SUPPORT AND COORDINATION ITEM OF THE BID FORM.
- ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. INJURY TO ANY SUCH STRUCTURE CAUSED BY, OR RESULTING FROM, THE CONTRACTORS OPERATIONS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION, OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY AND THE TOWN.
- BORING LOCATIONS ARE SHOWN ON THE DRAWINGS. LOCATIONS WERE MEASURED FROM EXISTING SITE FEATURES AND ARE APPROXIMATE. BORING LOGS ARE PROVIDED IN APPENDIX A OF THE SPECIFICATIONS.
- CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT, AND OTHER ITEMS DAMAGED BY THEIR CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, AND TO THE SATISFACTION OF THE TOWN OF NANTUCKET DEPARTMENT OF PUBLIC WORKS AND THE ENGINEER.
- OPEN TRENCHES MUST BE BACKFILLED AT THE END OF THE WORKDAY IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS OR COVERED AND SECURED WITH STEEL PLATES AND RAMPED AS APPROVED BY THE TOWN OF NANTUCKET DEPARTMENT OF PUBLIC WORKS.
- THE CONTRACTOR SHALL BE REQUIRED TO FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE THE CONTRACTOR CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK.
- THE CONTRACTOR SHALL HANDLE GROUNDWATER, WHERE ENCOUNTERED, IN AN APPROVED MANNER. DURING ANY DEWATERING, THE CONTRACTOR SHALL USE STONE AROUND THE SUCTION END TO MINIMIZE DISCHARGE OF TRENCH MATERIALS. THE DISCHARGED WATER SHALL PASS THROUGH FILTER FABRIC. FLOW FROM DEWATERING ACTIVITIES MAY BE DISCHARGED TO SANITARY SEWERS ONLY WHEN FOLLOWING PASSAGE THROUGH A SILT SACK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR WORK IN ROADWAYS. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL PERMITS AS AN INTEGRAL PART OF HIS WORK.
- IN AREAS WHERE CONSTRUCTION ACTIVITIES ARE ANTICIPATED TO OCCUR WITHIN PRIVATE PROPERTY, PROPERTY LINE LOCATIONS ARE TO BE REVIEWED WITH THE TOWN PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS AND STATIONING SHALL PREVAIL. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- ALL ELEVATIONS SHOWN ARE IN NAVD 88. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL ELEVATIONS, DIMENSIONS, ANGLES AND EXISTING CONDITIONS AT THE WORK SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER

GENERAL NOTES (CONTINUED):

- FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATIONS OF ALL EXISTING SEWER SERVICE CONNECTIONS PRIOR TO CONSTRUCTING REPLACEMENT SERVICE CONNECTIONS WHEN REQUIRED.
 - THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND APPROVED BY THE TOWN AND THE ENGINEER. THE CONTRACTOR SHALL LIMIT HIS ACTIVITIES TO THESE AREAS.
 - NO EQUIPMENT, VEHICLES, OR CONSTRUCTION MATERIALS SHALL BE STORED OUTSIDE OF DESIGNATED WORK AREAS DURING EITHER WORKING OR NON-WORKING HOURS. THE LOCATION FOR ANY STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NON-WORKING HOURS SHALL BE AS APPROVED BY THE TOWN.
 - THE CONTRACTOR SHALL SAW CUT ALL PAVEMENT TO ITS TOTAL DEPTH IN THE PROCESS OF INSTALLING NEW UTILITIES IN ALL PAVED AREAS INCLUDING STREETS, DRIVEWAYS, AND SIDEWALKS.
 - TEST PITS TO LOCATE EXISTING UTILITIES SHALL BE PERFORMED WHERE SHOWN AND AS ORDERED BY THE ENGINEER TO CONFIRM LOCATIONS OF UTILITIES AND DETERMINE WHETHER TO RAISE OR LOWER THE PROPOSED UTILITIES TO CLEAR EXISTING UTILITIES OR MEET EXISTING PIPE INVERTS.
 - EXCEPT FOR WORK CONDUCTED BETWEEN THE INTERSECTION OF SILVER STREET AND PLEASANT STREET AND THE INTERSECTION OF SURFSIDE ROAD AND MIACOMET ROAD, CONSTRUCTION WORK HOURS WILL BE MONDAY THROUGH FRIDAY FROM 7AM TO 5PM. CONSTRUCTION WORK HOURS FOR WORK BETWEEN THE INTERSECTION OF SILVER STREET AND PLEASANT STREET AND THE INTERSECTION OF SURFSIDE ROAD AND MIACOMET ROAD WILL BE MONDAY THROUGH FRIDAY FROM 4PM TO 2AM.
 - SPOILS SHALL NOT BE STORED WITHIN TOWN RIGHT OF WAY. ALL SPOILS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
 - IF AT ANY TIME THE CONSTRUCTION EXCAVATION REVEALS ANY ARTICLE OF HISTORIC OR ARCHAEOLOGICAL SIGNIFICANCE, WORK AT THE LOCATION WILL CEASE AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
 - THE EXISTING 20-INCH DUCTILE IRON SEWER FORCE MAIN WILL LIKELY BE EXPOSED DURING CONSTRUCTION AND SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO THE EXISTING 20-INCH SEWER FORCE MAIN CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL TAKE CAUTION WHILE EXCAVATING ADJACENT TO THE EXISTING SEWER FORCE MAIN.
 - THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF MASSACHUSETTS GENERAL LAW CHAPTER 82A, TRENCH EXCAVATION AND SAFETY REQUIREMENTS, TO PREVENT THE GENERAL PUBLIC FROM UNAUTHORIZED ACCESS TO UNATTENDED TRENCHES.

DRAINAGE CONSTRUCTION NOTES:

- DRAINAGE TRENCHES MAY BE EXCAVATED WIDER THAN THE PAY LIMIT. ANY SUCH ADDITIONAL EXCAVATION AND SUBSEQUENT RESTORATION SHALL BE AT NO ADDITIONAL COST TO THE TOWN AND SHALL NOT BE MEASURED FOR PAYMENT.
- OPENINGS FOR PIPE IN PRECAST MANHOLE BASES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING MANHOLE MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS PRIOR APPROVAL IS RECEIVED FROM THE TOWN AND/OR THE ENGINEER.
- CALCULATION OF PIPE SLOPES IS BASED ON ELEVATION CHANGE DIVIDED BY THE DISTANCE BETWEEN THE OUTSIDE EDGES OF THE MANHOLE WALLS. FOR FOUR FOOT DIAMETER MANHOLES, THIS DISTANCE WAS CALCULATED AS THE PIPE LENGTH MINUS FIVE FEET. FOR FIVE FOOT DIAMETER MANHOLES, THIS DISTANCE WAS CALCULATED AS THE PIPE LENGTH MINUS SIX FEET.
- NEW STORM DRAINS SHALL BE INSTALLED AT THE INVERTS SHOWN ON THE DRAWINGS.
- FORM BRICK INVERTS IN DRAIN MANHOLES WITH BRICK ON EDGE TO A DEPTH OF 0.8 INSIDE DIAMETER OF PIPE AND FORM A 1 INCH SLOPED BENCH WITH BRICK FLAT. INVERT SHALL BE SLOPED UNIFORMLY BETWEEN INLET AND OUTLET PIPE AS REQUIRED TO DIRECT THE FLOW AS INDICATED AND TO PREVENT DEPOSITION OF SOLIDS.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN COMPLIANCE WITH THE SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENT CONTROL DEVICES AS DIRECTED BY THE ENGINEER. CONSTRUCTION SHALL NOT COMMENCE UNTIL THESE MEASURES HAVE BEEN APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL STOCKPILE SUFFICIENT SOIL EROSION AND SEDIMENT CONTROL MATERIALS ON SITE TO REPAIR ANY DAMAGED SOIL EROSION AND SEDIMENT CONTROLS.
- SILT SACKS SHALL BE FURNISHED, INSTALLED, AND MAINTAINED IN ALL CATCH BASINS WITHIN THE PROJECT AREA AND WHERE CONSTRUCTION SEDIMENT MAY FLOW TO OUTSIDE THE PROJECT AREA. DEBRIS COLLECTED IN SILT SACKS SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE ON A WEEKLY BASIS THROUGHOUT THE PROJECT DURATION. UPON COMPLETION OF THE PROJECT AND AS DIRECTED BY THE ENGINEER, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND LEGALLY DISPOSING OF THE SILT SACKS AND DEBRIS OFF-SITE, AND REMOVAL OF CONSTRUCTION DEBRIS WITHIN THE DRAINAGE SYSTEM.

WATER CONSTRUCTION NOTES






- ALL HYDRANT BRANCHES SHALL HAVE VALVES AS SHOWN ON THE HYDRANT DETAIL.
- THE CONTRACTOR SHALL STAKE OUT ALL HYDRANT LOCATIONS AT LEAST 3 DAYS IN ADVANCE OF INSTALLATION. LOCATION OF ALL HYDRANTS SHALL BE APPROVED BY THE NANTUCKET FIRE AND WATER DEPARTMENTS, ENGINEER, AND TOWN PRIOR TO DIGGING FOR INSTALLATION.
- NEW WATER MAINS AND SERVICES SHALL BE INSTALLED AT THE MINIMUM DEPTH FROM FINISH GRADE TO TOP OF PIPE AS SHOWN ON THE DRAWINGS. WHERE NECESSARY, NEW WATER MAINS SHALL BE INSTALLED AT A GREATER DEPTH TO CLEAR OBSTACLES SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST TO THE TOWN. MINIMUM CLEARANCES TO UTILITIES, AS SHOWN ON THE DRAWINGS SHALL BE MAINTAINED.
- EXISTING SERVICES SHALL NOT BE CONNECTED TO THE PROPOSED WATER MAIN UNTIL SATISFACTORY PRESSURE TEST AND DISINFECTION RESULTS HAVE BEEN RECEIVED AND ACCEPTED BY THE TOWN AND ENGINEER.
- EXISTING WATER MAINS OR SERVICES SHALL NOT BE ABANDONED WITHOUT THE APPROVAL OF THE TOWN.
- MINIMUM COVER OVER THE PROPOSED WATER MAIN AND APPURTENANCES SHALL BE 5'-0" UNLESS OTHERWISE NOTED OR DIRECTED BY ENGINEER. WATER MAINS SHALL BE INSULATED IN AREAS WHERE DEPTH TO MAIN IS LESS THAN 4 FEET DEEP.
- ANY HYDRANT WHICH IS NOT IN SERVICE SHALL BE COVERED WITH A SECURELY FASTENED BURLAP BAG (OR EQUAL). THE NANTUCKET FIRE DEPARTMENT SHALL BE NOTIFIED OF ALL INACTIVE HYDRANTS.
- THE CONTRACTOR IS REQUIRED TO NOTIFY AND COORDINATE WITH ALL RESIDENTS AFFECTED BY WATER MAIN SHUT DOWNS 48 HOURS IN ADVANCE.
- ALL EXISTING WATER SERVICES SHALL BE CONNECTED TO THE PROPOSED WATER MAIN. NEW SERVICES TO RUN FROM MAIN TO LOCATION OF EXISTING CURB STOPS (AT MINIMUM), REPLACE EXISTING CURB STOPS AND CONNECT TO EXISTING WATER SERVICES AT PROPERTY LINE.
- CONCRETE THRUST BLOCKS AND "MEGA-LUG" (OR APPROVED EQUAL) MECHANICAL RESTRAINTS ARE REQUIRED AT ALL TEES, BENDS, PLUGS, AND HYDRANTS.
- WATER SERVICES SHALL BE INSULATED IN AREAS WHERE CONNECTION TO EXISTING WATER SERVICE IS LESS THAN 4 FEET DEEP.
- VALVE DECOMMISSIONING - CLOSE VALVE, REMOVE AND LEGALLY DISPOSE OF GATE BOX, FILL HOLE, AND PAVE ACCORDING TO TYPICAL TRENCH DETAIL.
- HYDRANT DECOMMISSIONING - CUT AND CAP HYDRANT LATERAL, REMOVE AND DELIVER HYDRANT ASSEMBLY TO THE NANTUCKET WATER DEPARTMENT, FILL HOLE AND PAVE ACCORDING TO TYPICAL TRENCH DETAIL OR RESTORE LANDSCAPING TO MATCH ADJACENT AREAS AT NO ADDITIONAL EXPENSE TO THE TOWN.
- SLEEVES, NIPPLES, AND ACCESSORIES NECESSARY FOR CONNECTIONS BETWEEN EXISTING AND NEW PIPES MAY NOT BE SHOWN IN DETAIL. FURNISH AND INSTALL ITEMS NECESSARY FOR CONNECTING TO EXISTING MAINS AND AS INDICATED ON THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL MATERIAL REMOVED FROM TRENCH DURING CUTTING AND CAPPING OF EXISTING WATER MAINS.
- EXCEPT WHERE OTHERWISE DIRECTED, 12" MINIMUM CLEARANCE SHALL BE PROVIDED BETWEEN THE NEW MAIN AND OTHER UTILITIES WHERE THEY CROSS. WHERE NEW MAIN PASSES UNDER UTILITIES, IT SHALL CROSS WITHOUT THE USE OF BENDS UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL HYDRANT LATERALS SHALL CROSS UNDER EXISTING UTILITIES AND WATER MAINS. HYDRANT EXTENSIONS SHALL BE INSTALLED, AS NECESSARY, AT NO ADDITIONAL COST TO THE TOWN.
- PRIOR TO DEMOBILIZATION, THE CONTRACTOR SHALL INSPECT EVERY VALVE, HYDRANT, AND CURB STOP WITH THE RESIDENT PROJECT REPRESENTATIVE PRESENT TO ENSURE PROPER OPERATION.

TEMPORARY WATER MAIN BYPASS NOTES

- THE TEMPORARY WATER MAIN BYPASS PLANS SHOWN ON THESE DESIGN PLANS ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE BYPASS SYSTEM AND FOR RECEIVING APPROVAL FROM THE OWNER AND THE ENGINEER.
- LOCATIONS OF EXISTING WATER MAINS, VALVES, AND HYDRANTS OUTSIDE OF THE LIMIT OF WORK ARE APPROXIMATE.
- ALL TEMPORARY WATER BYPASS PIPE SHALL BE INSTALLED BELOW GRADE WITH A MINIMUM OF 1' OF COVER. THE TRENCH SHALL BE MADE FLUSH WITH THE EXISTING SURFACE USING COLD PATCH IF THE EXISTING SURFACE IS PAVED AND USING PROCESSED GRAVEL IF THE EXISTING SURFACE IS UNPAVED. SEE DETAIL ON SHEET CD-8.
- TEMPORARY WATER BYPASS PIPE SHALL BE FILLED WITH WATER ONLY UNDER DIRECTION OF THE OWNER/ENGINEER. THE PIPING MUST BE CHLORINATED AND SATISFACTORY BACTERIOLOGICAL TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO ACTIVATING THE BYPASS SYSTEM.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION, TESTING, COMMISSIONING, AND DECOMMISSIONING OF THE WATER MAIN BYPASS WITH THE ENGINEER/OWNER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOT OPERATE EXISTING WATER SYSTEM GATE VALVES; THE CONTRACTOR SHALL NOTIFY THE OWNER IF AN EXISTING WATER SYSTEM VALVE REQUIRES OPERATION.
- THE CONTRACTOR SHALL COMMENCE CONSTRUCTION NO LATER THAN 1 WEEK FOLLOWING THE COMMISSIONING OF THE WATER MAIN BYPASS SYSTEM.
- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS REQUIRED FOR THE WATER MAIN BYPASS AS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN THE WATER MAIN BYPASS SYSTEM THROUGHOUT THE DURATION OF THE PROJECT.

SEWER CONSTRUCTION NOTES:

- SEWER TRENCHES MAY BE EXCAVATED WIDER THAN THE PAY LIMIT PROVIDED THAT THE WIDER EXCAVATION CONFORMS TO ALL PERMIT REQUIREMENTS. ANY SUCH ADDITIONAL EXCAVATION AND PAVING/RESTORATION SHALL BE AT NO ADDITIONAL COST TO THE TOWN AND SHALL NOT BE MEASURED FOR PAYMENT.
- OPENINGS FOR PIPE IN PRECAST MANHOLE BASES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING MANHOLE MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS PRIOR APPROVAL IS RECEIVED FROM THE TOWN AND/OR THE ENGINEER.
- CALCULATION OF PIPE SLOPES IS BASED ON ELEVATION CHANGE DIVIDED BY THE DISTANCE BETWEEN THE OUTSIDE EDGES OF THE MANHOLE WALLS. FOR FOUR FOOT DIAMETER MANHOLES, THIS DISTANCE WAS CALCULATED AS THE CENTERLINE STATIONING MINUS FIVE FEET. FOR FIVE FOOT DIAMETER MANHOLES, THIS DISTANCE WAS CALCULATED AS THE CENTERLINE STATIONING MINUS SIX FEET.
- NEW SEWER SERVICE CONNECTIONS SHALL BE INSTALLED SUCH THAT THEIR GRADE ELEVATIONS ARE BENEATH THE WATER MAIN AND WATER SERVICE CONNECTIONS. NEW SEWERS SHALL BE INSTALLED A MINIMUM OF 18" BELOW WATER MAIN UNLESS APPROVED BY ENGINEER AND THE TOWN.
- SEWER BYPASS SHALL BE SUPERVISED BY CONTRACTOR PERSONNEL CONTINUOUSLY WHILE OPERATING. REDUNDANT PUMPS OR TRUCKS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. AT THE END OF EACH WORKING DAY SEWER PIPE SHALL BE CONNECTED TO THE EXISTING SEWER.
- ALL EXISTING SEWER SERVICES SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PREPARE A CONSTRUCTION SEQUENCE PLAN TO ENSURE THAT ALL SEWER CUSTOMERS HAVE CONTINUOUS SEWER SERVICE DURING CONSTRUCTION.
- UTILITY CROSSINGS WITHIN 12" OF THE INSTALLED FORCE MAIN SHALL BE CONCRETE ENCASED. SEE DETAIL SHEET CD-2.
- FORM BRICK INVERTS IN MANHOLES WITH BRICK ON EDGE TO A DEPTH OF 0.8 INSIDE DIAMETER OF PIPE AND FORM A 1 INCH SLOPED BENCH WITH BRICK FLAT. INVERT SHALL BE SLOPED UNIFORMLY BETWEEN INLET AND OUTLET PIPE AS REQUIRED TO DIRECT THE FLOW AS INDICATED AND TO PREVENT DEPOSITION OF SOLIDS.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 4 FEET OVER ALL FORCE MAIN SEWER PIPE AND GRAVITY SEWER PIPE, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. WHERE SHALLOWER INSTALLATIONS ARE REQUIRED, INSULATION SHALL BE INSTALLED AS REQUIRED AND AS SPECIFIED.
- SEWER CHIMNEY AND HOUSE CONNECTION LOCATIONS ARE APPROXIMATE IN LOCATION. EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER AND THE TOWN IN THE FIELD.

			Scale	AS NOTED		SEA STREET PUMP STATION FORCE MAIN NO.3 TOWN OF NANTUCKET, MA	FOR CONSTRUCTION
			Date	SEPTEMBER 2021			Sheet No.
			Job No.	360-2001	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING	GENERAL NOTES	
			Designed by	FJB			
			Drawn by	FJB			
			Checked by	RJR/PCM/RJA			
			Approved by	ZFK			

Drawing File: I:\Nantucket\060-2001 - Sea St PPS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\02 General Notes and Legend.dwg Plot Date: Aug 31, 2024 5:14pm

SUGGESTED SEQUENCE OF CONSTRUCTION

THE CONTRACTOR SHALL PROVIDE A DETAILED CONSTRUCTION PROGRESS SCHEDULE IN ACCORDANCE WITH SECTION 01311 PRIOR TO ANY WORK - NO EXCEPTIONS.

THE CONTRACTOR SHALL SUBMIT A DETAILED SEQUENCE OF CONSTRUCTION IN ACCORDANCE WITH SECTION 01170 FOR EACH INDIVIDUAL STREET AND THE OVERALL PROJECT FOR THE ENGINEER'S REVIEW AND APPROVAL PRIOR TO ANY WORK - NO EXCEPTIONS.

THE CONTRACTOR SHALL HAVE ALL SUBMITTALS SPECIFIED IN SECTION 01300 SUBMITTED AND APPROVED BY THE TOWN AND ENGINEER PRIOR TO ANY WORK - NO EXCEPTIONS.

THE SUGGESTED SEQUENCE OF WORK IS ORGANIZED BY STREET. BELOW, THE FINAL SEQUENCE OF CONSTRUCTION DOES NOT NECESSARILY NEED TO FOLLOW THE FORCE MAIN ALIGNMENT LINEARLY ALONG THE LISTED STREETS.

SUGGESTED SEQUENCE OF WORK:

GENERAL (ALL STREETS):

- PRIOR TO CONSTRUCTION, OBTAIN ALL NECESSARY PERMITS AND LICENSES REQUIRED FOR COMMENCEMENT OF THE WORK.
- PRIOR TO CONSTRUCTION, INSTALL ALL SEDIMENT/EROSION CONTROLS WITHIN THE WORK AREA.
- PRIOR TO CONSTRUCTION, INSTALL ALL TRAFFIC MANAGEMENT ADVANCED WARNING SIGNS.
- PRIOR TO CONSTRUCTION, PERFORM ALL TEST PITS AS SHOWN AND AS DIRECTED BY THE ENGINEER. IMMEDIATELY REPORT ANY POTENTIAL CONFLICTS TO THE ENGINEER.
- PRIOR TO CONSTRUCTION, COORDINATE WITH THE TOWN AND THE ENGINEER FOR ACTIVATION OF THE EXISTING 16" PE SEWER FORCE MAIN AND SHUTDOWN/DRAINING OF THE EXISTING 20" DI SEWER FORCE MAIN. THE 16" PE SEWER FORCE MAIN SHALL ACT AS THE PRIMARY FORCE MAIN FOR THE DURATION OF THE PROJECT. THE 20" DI SEWER FORCE MAIN SHALL REMAIN INACTIVE UNLESS HIGH FLOWS ARE OBSERVED AT THE SEA STREET PUMP STATION THAT REQUIRE ITS USE.
- FOLLOWING CONSTRUCTION, PERFORM TEMPORARY AND PERMANENT SURFACE RESTORATION IN ACCORDANCE WITH THE SURFACE RESTORATION DETAIL SHEETS.
- FOLLOWING PERMANENT SURFACE RESTORATION, INSTALL ALL TRAFFIC PAINT AND ROADWAY MARKINGS AS SPECIFIED.
- FOLLOWING CONSTRUCTION COMPLETION, REMOVE AND DISPOSE OF ALL EROSION AND SEDIMENT CONTROL DEVICES.
- FOLLOWING CONSTRUCTION COMPLETION, DEMOBILIZE ALL EQUIPMENT AND MATERIALS FROM THE SITE AND STAGING AREA. CLEAN AND RESTORE CONSTRUCTION STAGING AREA.

SEA STREET

- INSTALL TEMPORARY SMH TO SMH BYPASS AS REQUIRED FOR NEW GRAVITY SEWER INSTALLATION.
- INSTALL AND TEST NEW 8" PVC GRAVITY SEWER AND MANHOLES BEGINNING AT THE DOWNSTREAM MANHOLE. CONNECT EXISTING SEWER SERVICES AS NEW SEWER IS INSTALLED. TEMPORARILY CONNECT TO EXISTING SEWER AT THE END OF EACH WORKDAY. REMOVE BYPASS IN COORDINATION WITH GRAVITY SEWER INSTALLATION PROGRESS. REMOVE AND LEGALLY DISPOSE OF EXISTING 8" VC/PVC GRAVITY SEWER AND MANHOLES WITHIN TRENCH LIMITS.
- REPLACE REMAINING PORTION OF BUILDING LATERALS FOR ALL SEWER SERVICES BETWEEN THE NEW GRAVITY SEWER AND THE PROPERTY LINE.
- INSTALL, TEST, AND DISINFECT WATER BYPASS INCLUDING ISOLATION VALVES, TEMPORARY WATER SERVICES, AND TEMPORARY HYDRANT CONNECTIONS AS SPECIFIED AND SHOWN ON THE DRAWINGS (NOTE SEASONAL RESTRICTIONS AS OUTLINED IN SECTION 02736)
- INSTALL NEW 6" DI WATER MAIN, INCLUDING VALVES AND HYDRANTS AS SHOWN AND AS SPECIFIED. PRIOR TO CONNECTING EXISTING WATER SERVICES TO NEW MAIN, PRESSURE TEST AND DISINFECT THE NEW WATER MAIN AS SPECIFIED. REMOVE AND LEGALLY DISPOSE OF EXISTING 6" DI WATER MAIN WITHIN TRENCH LIMITS. DECOMMISSION, REMOVE, AND RETURN EXISTING HYDRANTS AND GATE VALVES TO THE NANTUCKET WATER DEPARTMENT.
- AFTER SUCCESSFUL PRESSURE TESTING & DISINFECTION SAMPLING RESULTS, CONNECT THE NEW WATER MAIN TO ALL EXISTING WATER MAIN CONNECTIONS AND SERVICES AS SHOWN ON THE DRAWINGS. REMOVE TEMPORARY WATER BYPASS SYSTEMS.
- COMPLETE CONNECTION TO EXISTING 20" DI SEWER FORCE MAIN AT THE SEA STREET PUMP STATION AS SHOWN ON THE DRAWINGS. INSTALL AND TEST 20" PVC SEWER FORCE MAIN AND APPURTENANCES.

STEP LANE

- INSTALL, TEST, AND DISINFECT WATER BYPASS INCLUDING ISOLATION VALVES, TEMPORARY WATER SERVICES, AND TEMPORARY HYDRANT CONNECTIONS AS SPECIFIED AND SHOWN ON THE DRAWINGS. (NOTE SEASONAL RESTRICTIONS AS OUTLINED IN SECTION 02736)
- INSTALL NEW 6" DI WATER MAIN, INCLUDING VALVES AND HYDRANTS AS SHOWN AND AS SPECIFIED. PRIOR TO CONNECTING EXISTING WATER SERVICES TO NEW MAIN, PRESSURE TEST AND DISINFECT THE NEW WATER MAIN AS SPECIFIED. REMOVE AND LEGALLY DISPOSE OF EXISTING 6" CI WATER MAIN WITHIN TRENCH LIMITS. DECOMMISSION, REMOVE, AND RETURN EXISTING HYDRANTS AND GATE VALVES TO THE NANTUCKET WATER DEPARTMENT.
- AFTER SUCCESSFUL PRESSURE TESTING & DISINFECTION SAMPLING RESULTS, CONNECT THE NEW WATER MAIN TO ALL EXISTING WATER MAIN CONNECTIONS AND SERVICES AS SHOWN ON THE DRAWINGS. REMOVE TEMPORARY WATER BYPASS SYSTEMS.
- INSTALL TEMPORARY SMH TO SMH BYPASS AS REQUIRED FOR NEW GRAVITY SEWER INSTALLATION.
- INSTALL AND TEST NEW 8" PVC GRAVITY SEWER AND MANHOLES BEGINNING AT THE DOWNSTREAM MANHOLE. CONNECT EXISTING SEWER SERVICES AS NEW SEWER IS INSTALLED. TEMPORARILY CONNECT TO EXISTING SEWER AT THE END OF EACH WORKDAY. REMOVE BYPASS IN COORDINATION WITH GRAVITY SEWER INSTALLATION PROGRESS. REMOVE AND LEGALLY DISPOSE OF EXISTING 6" VC GRAVITY SEWER AND MANHOLES WITHIN TRENCH LIMITS.
- REPLACE REMAINING PORTION OF BUILDING LATERALS FOR ALL SEWER SERVICES BETWEEN THE NEW GRAVITY SEWER AND THE PROPERTY LINE.
- INSTALL AND TEST 20" PVC SEWER FORCE MAIN AND APPURTENANCES.

CENTRE STREET

- INSTALL TEMPORARY SMH TO SMH BYPASS AS REQUIRED FOR NEW GRAVITY SEWER INSTALLATION.
- INSTALL AND TEST NEW 10" PVC GRAVITY SEWER AND MANHOLES BEGINNING AT THE DOWNSTREAM MANHOLE. CONNECT EXISTING SEWER SERVICES AS NEW SEWER IS INSTALLED. TEMPORARILY CONNECT TO EXISTING SEWER AT THE END OF EACH WORKDAY. REMOVE BYPASS IN COORDINATION WITH GRAVITY SEWER INSTALLATION PROGRESS. REMOVE AND LEGALLY DISPOSE OF EXISTING 10" VC GRAVITY SEWER AND MANHOLES WITHIN TRENCH LIMITS.
- REPLACE REMAINING PORTION OF BUILDING LATERALS FOR ALL SEWER SERVICES BETWEEN THE NEW GRAVITY SEWER AND THE PROPERTY LINE.
- INSTALL AND TEST 20" PVC SEWER FORCE MAIN AND APPURTENANCES. REMOVE AND LEGALLY DISPOSE OF EXISTING 10" VC GRAVITY SEWER AND MANHOLES WITHIN TRENCH LIMITS.

LILY STREET

- ENSURE LIBERTY STREET WATER MAIN HAS BEEN INSTALLED, TESTED, AND DISINFECTED. MAKE TEMPORARY CONNECTIONS TO EXISTING MAIN ON LILY STREET AS REQUIRED. INSTALL, TEST, AND DISINFECT WATER BYPASS INCLUDING ISOLATION VALVES, TEMPORARY WATER SERVICES, AND TEMPORARY HYDRANT CONNECTIONS AS SPECIFIED AND SHOWN ON THE DRAWINGS. (NOTE SEASONAL RESTRICTIONS AS OUTLINED IN SECTION 02736)
- INSTALL NEW 6" DI WATER MAIN, INCLUDING VALVES AND HYDRANTS AS SHOWN AND AS SPECIFIED. PRIOR TO CONNECTING EXISTING WATER SERVICES TO NEW MAIN, PRESSURE TEST AND DISINFECT THE NEW WATER MAIN AS SPECIFIED. REMOVE AND LEGALLY DISPOSE OF EXISTING 6" AC/CI WATER MAIN WITHIN TRENCH LIMITS. DECOMMISSION, REMOVE, AND RETURN EXISTING HYDRANTS AND GATE VALVES TO THE NANTUCKET WATER DEPARTMENT.
- AFTER SUCCESSFUL PRESSURE TESTING & DISINFECTION SAMPLING RESULTS, CONNECT THE NEW WATER MAIN TO ALL EXISTING WATER MAIN CONNECTIONS AND SERVICES AS SHOWN ON THE DRAWINGS. REMOVE TEMPORARY WATER BYPASS SYSTEMS.
- INSTALL TEMPORARY SMH TO SMH BYPASS AS REQUIRED FOR NEW GRAVITY SEWER INSTALLATION.
- INSTALL AND TEST NEW 12" PVC GRAVITY SEWER AND MANHOLES BEGINNING AT THE DOWNSTREAM MANHOLE. CONNECT EXISTING SEWER SERVICES AS NEW SEWER IS INSTALLED. TEMPORARILY CONNECT TO EXISTING SEWER AT THE END OF EACH WORKDAY. REMOVE BYPASS IN COORDINATION WITH GRAVITY SEWER INSTALLATION PROGRESS. REMOVE AND LEGALLY DISPOSE OF EXISTING 12" VC GRAVITY SEWER AND MANHOLES WITHIN TRENCH LIMITS.
- REPLACE REMAINING PORTION OF BUILDING LATERALS FOR ALL SEWER SERVICES BETWEEN THE NEW GRAVITY SEWER AND THE PROPERTY LINE.
- INSTALL AND TEST 20" PVC SEWER FORCE MAIN AND APPURTENANCES. REMOVE AND LEGALLY DISPOSE OF EXISTING 12" VC GRAVITY SEWER WITHIN TRENCH LIMITS.
- INSTALL ALL STORMWATER PIPING AND STRUCTURES.

LIBERTY STREET

- INSTALL, TEST, AND DISINFECT WATER BYPASS INCLUDING ISOLATION VALVES, TEMPORARY WATER SERVICES, AND TEMPORARY HYDRANT CONNECTIONS AS SPECIFIED AND SHOWN ON THE DRAWINGS. (NOTE SEASONAL RESTRICTIONS AS OUTLINED IN SECTION 02736)
- INSTALL NEW 6" DI WATER MAIN, INCLUDING VALVES AND HYDRANTS AS SHOWN AND AS SPECIFIED. PRIOR TO CONNECTING EXISTING WATER SERVICES TO NEW MAIN, PRESSURE TEST AND DISINFECT THE NEW WATER MAIN AS SPECIFIED. REMOVE AND LEGALLY DISPOSE OF EXISTING 6" CI WATER MAIN WITHIN TRENCH LIMITS. DECOMMISSION, REMOVE, AND RETURN EXISTING HYDRANTS AND GATE VALVES TO THE NANTUCKET WATER DEPARTMENT.
- AFTER SUCCESSFUL PRESSURE TESTING & DISINFECTION SAMPLING RESULTS, CONNECT THE NEW WATER MAIN TO ALL EXISTING WATER MAIN CONNECTIONS AND SERVICES AS SHOWN ON THE DRAWINGS. REMOVE TEMPORARY WATER BYPASS SYSTEMS.
- INSTALL TEMPORARY SMH TO SMH BYPASS AS REQUIRED FOR NEW GRAVITY SEWER INSTALLATION.
- INSTALL AND TEST NEW 8" DI 12" PVC GRAVITY SEWER AND MANHOLES BEGINNING AT THE DOWNSTREAM MANHOLE. CONNECT EXISTING SEWER SERVICES AS NEW SEWER IS INSTALLED. TEMPORARILY CONNECT TO EXISTING SEWER AT THE END OF EACH WORKDAY. REMOVE BYPASS IN COORDINATION WITH GRAVITY SEWER INSTALLATION PROGRESS. REMOVE AND LEGALLY DISPOSE OF EXISTING 6" DI 12" VC/PVC GRAVITY SEWER AND MANHOLES WITHIN TRENCH LIMITS.
- REPLACE REMAINING PORTION OF BUILDING LATERALS FOR ALL SEWER SERVICES BETWEEN THE NEW GRAVITY SEWER AND THE PROPERTY LINE.
- INSTALL AND TEST 20" PVC SEWER FORCE MAIN AND APPURTENANCES. REMOVE AND LEGALLY DISPOSE OF EXISTING 6" CI WATER MAIN WITHIN TRENCH LIMITS.
- INSTALL ALL STORMWATER PIPING AND STRUCTURES (PENDING BID ALTERNATE).

WINTER STREET

- INSTALL NEW 8" DI WATER MAIN, INCLUDING VALVES AND HYDRANTS AS SHOWN AND AS SPECIFIED. PRIOR TO CONNECTING EXISTING WATER SERVICES TO NEW MAIN, PRESSURE TEST AND DISINFECT THE NEW WATER MAIN AS SPECIFIED. DECOMMISSION, REMOVE, AND RETURN EXISTING HYDRANTS AND GATE VALVES TO THE NANTUCKET WATER DEPARTMENT.
- AFTER SUCCESSFUL PRESSURE TESTING & DISINFECTION SAMPLING RESULTS, CONNECT THE NEW WATER MAIN TO ALL EXISTING WATER MAIN CONNECTIONS AND SERVICES AS SHOWN ON THE DRAWINGS.
- INSTALL TEMPORARY SMH TO SMH BYPASS AS REQUIRED FOR NEW GRAVITY SEWER INSTALLATION.
- INSTALL AND TEST NEW 8" PVC GRAVITY SEWER AND MANHOLES BEGINNING AT THE DOWNSTREAM MANHOLE. CONNECT EXISTING SEWER SERVICES AS NEW SEWER IS INSTALLED. TEMPORARILY CONNECT TO EXISTING SEWER AT THE END OF EACH WORKDAY. REMOVE BYPASS IN COORDINATION WITH GRAVITY SEWER INSTALLATION PROGRESS. REMOVE AND LEGALLY DISPOSE OF EXISTING 6" VC/PVC GRAVITY SEWER AND MANHOLES WITHIN TRENCH LIMITS. REMOVE AND LEGALLY DISPOSE OF EXISTING 8" CI WATER MAIN WITHIN TRENCH LIMITS.
- REPLACE REMAINING PORTION OF BUILDING LATERALS FOR ALL SEWER SERVICES BETWEEN THE NEW GRAVITY SEWER AND THE PROPERTY LINE.

- INSTALL AND TEST 20" PVC SEWER FORCE MAIN AND APPURTENANCES. REMOVE AND LEGALLY DISPOSE OF EXISTING 8" CI WATER MAIN AND EXISTING ABANDONED GRAVITY SEWER WITHIN TRENCH LIMITS.

PINE STREET

- INSTALL TEMPORARY SMH TO SMH BYPASS AS REQUIRED FOR NEW GRAVITY SEWER INSTALLATION.
- INSTALL AND TEST NEW 8" PVC GRAVITY SEWER AND MANHOLES BEGINNING AT THE DOWNSTREAM MANHOLE. CONNECT EXISTING SEWER SERVICES AS NEW SEWER IS INSTALLED. TEMPORARILY CONNECT TO EXISTING SEWER AT THE END OF EACH WORKDAY. REMOVE BYPASS IN COORDINATION WITH GRAVITY SEWER INSTALLATION PROGRESS. REMOVE AND LEGALLY DISPOSE OF EXISTING 6" VC GRAVITY SEWER AND MANHOLES WITHIN TRENCH LIMITS.
- REPLACE REMAINING PORTION OF BUILDING LATERALS FOR ALL SEWER SERVICES BETWEEN THE NEW GRAVITY SEWER AND THE PROPERTY LINE.
- INSTALL, TEST, AND DISINFECT WATER BYPASS INCLUDING ISOLATION VALVES, TEMPORARY WATER SERVICES, AND TEMPORARY HYDRANT CONNECTIONS AS SPECIFIED AND SHOWN ON THE DRAWINGS.
- INSTALL NEW 8" DI WATER MAIN, INCLUDING VALVES AND HYDRANTS AS SHOWN AND AS SPECIFIED. PRIOR TO CONNECTING EXISTING WATER SERVICES TO NEW MAIN, PRESSURE TEST AND DISINFECT THE NEW WATER MAIN AS SPECIFIED. REMOVE AND LEGALLY DISPOSE OF EXISTING 6" VC CI WATER MAIN WITHIN TRENCH LIMITS. DECOMMISSION, REMOVE, AND RETURN EXISTING HYDRANTS AND GATE VALVES TO THE NANTUCKET WATER DEPARTMENT.
- AFTER SUCCESSFUL PRESSURE TESTING & DISINFECTION SAMPLING RESULTS, CONNECT THE NEW WATER MAIN TO ALL EXISTING WATER MAIN CONNECTIONS AND SERVICES AS SHOWN ON THE DRAWINGS. REMOVE TEMPORARY WATER BYPASS SYSTEMS.
- INSTALL AND TEST 20" PVC SEWER FORCE MAIN AND APPURTENANCES.

SILVER STREET

- INSTALL, TEST, AND DISINFECT WATER BYPASS INCLUDING ISOLATION VALVES, TEMPORARY WATER SERVICES, AND TEMPORARY HYDRANT CONNECTIONS AS SPECIFIED AND SHOWN ON THE DRAWINGS. (NOTE SEASONAL RESTRICTIONS AS OUTLINED IN SECTION 02736)
- INSTALL NEW 6" DI WATER MAIN, INCLUDING VALVES AND HYDRANTS AS SHOWN AND AS SPECIFIED. PRIOR TO CONNECTING EXISTING WATER SERVICES TO NEW MAIN, PRESSURE TEST AND DISINFECT THE NEW WATER MAIN AS SPECIFIED REMOVE AND LEGALLY DISPOSE OF EXISTING 6" B&SCL WATER MAIN WITHIN TRENCH LIMITS. DECOMMISSION, REMOVE, AND RETURN EXISTING HYDRANTS AND GATE VALVES TO THE NANTUCKET WATER DEPARTMENT.
- AFTER SUCCESSFUL PRESSURE TESTING & DISINFECTION SAMPLING RESULTS, CONNECT THE NEW WATER MAIN TO ALL EXISTING WATER MAIN CONNECTIONS AND SERVICES AS SHOWN ON THE DRAWINGS. REMOVE TEMPORARY WATER BYPASS SYSTEMS.
- INSTALL TEMPORARY SMH TO SMH BYPASS AS REQUIRED FOR NEW GRAVITY SEWER INSTALLATION.
- INSTALL AND TEST NEW 8" PVC GRAVITY SEWER AND MANHOLES BEGINNING AT THE DOWNSTREAM MANHOLE. CONNECT EXISTING SEWER SERVICES AS NEW SEWER IS INSTALLED. TEMPORARILY CONNECT TO EXISTING SEWER AT THE END OF EACH WORKDAY. REMOVE BYPASS IN COORDINATION WITH GRAVITY SEWER INSTALLATION PROGRESS. REMOVE AND LEGALLY DISPOSE OF EXISTING 8" VC/PVC GRAVITY SEWER AND MANHOLES WITHIN TRENCH LIMITS.
- REPLACE REMAINING PORTION OF BUILDING LATERALS FOR ALL SEWER SERVICES BETWEEN THE NEW GRAVITY SEWER AND THE PROPERTY LINE.
- INSTALL AND TEST 20" PVC SEWER FORCE MAIN AND APPURTENANCES. REMOVE AND LEGALLY DISPOSE OF EXISTING 8" CI WATER MAIN WITHIN TRENCH LIMITS.
- INSTALL ALL STORMWATER PIPING AND STRUCTURES.

PLEASANT STREET

- INSTALL AND TEST 20" PVC SEWER FORCE MAIN AND APPURTENANCES.
- INSTALL ALL STORMWATER PIPING AND STRUCTURES.

ATLANTIC AVENUE

- REMOVE AND LEGALLY DISPOSE OF EXISTING CONCRETE FIRE PROTECTION CISTERN.
- INSTALL AND TEST 20" PVC SEWER FORCE MAIN AND APPURTENANCES. REMOVE AND LEGALLY DISPOSE OF EXISTING ABANDONED 6" CI WATER MAIN WITHIN TRENCH LIMITS.
- INSTALL TEMPORARY SMH TO SMH BYPASS AS REQUIRED FOR NEW GRAVITY SEWER INSTALLATION.
- INSTALL AND TEST NEW 8" PVC GRAVITY SEWER AND MANHOLES BEGINNING AT THE DOWNSTREAM MANHOLE. CONNECT EXISTING SEWER SERVICES AS NEW SEWER IS INSTALLED. TEMPORARILY CONNECT TO EXISTING SEWER AT THE END OF EACH WORKDAY. REMOVE BYPASS IN COORDINATION WITH GRAVITY SEWER INSTALLATION PROGRESS. REMOVE AND LEGALLY DISPOSE OF EXISTING 6" AC/PVC GRAVITY SEWER AND MANHOLES WITHIN TRENCH LIMITS.
- REPLACE REMAINING PORTION OF BUILDING LATERALS FOR ALL SEWER SERVICES BETWEEN THE NEW GRAVITY SEWER AND THE PROPERTY LINE.
- INSTALL ALL STORMWATER PIPING AND STRUCTURES (PENDING BID ALTERNATE).

SURFSIDE ROAD

- INSTALL AND TEST 20"/24" PVC SEWER FORCE MAIN AND APPURTENANCES. COMPLETE CROSS-CONNECTION TO EXISTING 20" DI SEWER FORCE MAIN AS SHOWN ON THE DRAWINGS. PROVIDE DRAINING OF EXISTING 20" DI SEWER FORCE MAIN AS REQUIRED FOR CONNECTION. COMPLETE AND COORDINATE CONNECTION TO PROPOSED SURFSIDE ROAD PUMP STATION AS SHOWN ON THE DRAWINGS. COMPLETE CONNECTION TO EXISTING 8" DI FORCE MAIN FROM EXISTING SURFSIDE ROAD PUMP STATION AS SHOWN ON THE DRAWINGS.

SOUTH SHORE ROAD

- INSTALL AND TEST 20"/24" PVC SEWER FORCE MAIN AND APPURTENANCES. COMPLETE CONNECTION TO EXISTING 20" DI SEWER FORCE MAIN AT THE SURFSIDE WASTEWATER TREATMENT FACILITY AS SHOWN ON THE DRAWINGS. PROVIDE FORCE MAIN DRAINING AND BYPASS OF SOUTH VALLEY PUMP STATION FORCE MAIN AS REQUIRED FOR CONNECTION.



Scale	AS NOTED	
Date	SEPTEMBER 2021	
Job No.	360-2001	
Designed by	FJB	
Drawn by	FJB	
Checked by	RJR/PCM/RJA	
Approved by	ZFK	
MARK	DATE	DESCRIPTION

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

SUGGESTED SEQUENCE OF CONSTRUCTION

FOR CONSTRUCTION

Sheet No.

G-3

EXISTING

- BUILDINGS
- 10 — CONTOURS - MAJOR
- 9 — CONTOURS - MINOR
- CURB - BOTTOM
- CURB - TOP
- D — DRAINAGE
- OHW — ELECTRIC OVERHEAD WIRES
- E — ELECTRIC
- EDGE OF PAVEMENT
- FENCES - CHAIN LINK OR METAL
- X — FENCES - OTHER
- G — GAS
- PROPERTY LINES
- PAVEMENT MARKINGS
- FM — SEWER FORCE MAIN
- S — GRAVITY SEWER
- T — TELEPHONE/COMMUNICATIONS
- VEGETATION
- STONE WALL
- WATER BODY
- W — WATER SYSTEMS
- S — GRAVITY SEWER WORK IN PROGRESS BY OTHERS
- FM — FORCE MAIN WORK IN PROGRESS BY OTHERS
- W — WATER WORK IN PROGRESS BY OTHERS
- E — ELECTRICAL WORK IN PROGRESS BY OTHERS
- PROPOSED SEWER FORCE MAIN CORRIDOR
- SEWER MANHOLE IN PROGRESS BY OTHERS
- CAP IN PROGRESS BY OTHERS
- BORING BY OTHERS

LEGEND

EXISTING (CONTINUED)

- ⊕ CATCH BASIN
- ⊕ DRAINAGE MANHOLE
- ⊕ ELECTRIC MANHOLE
- ⊕ GAS VALVE
- ⊕ GAS SHUTOFF
- ⊕ BOUND
- ⊕ SEWER MANHOLE
- ⊕ SIGN
- ⊕ MAILBOX
- ⊕ LIGHT POST
- ⊕ FLAG POLE
- ⊕ CONIFEROUS TREE
- ⊕ DECIDUOUS TREE
- ⊕ SHRUB
- ⊕ UTILITY POLE
- ⊕ UTILITY POLE GUY WIRE
- ⊕ WETLANDS, PONDS, RIVERS FLAG
- ⊕ HYDRANT
- ⊕ WATER GATE VALVE
- ⊕ WATER SHUTOFF
- ⊕ WELL
- ⊕ WATER/SEWER LINE CAP
- ⊕ METER PIT
- ⊕ TELECOMMUNICATIONS MANHOLE
- ⊕ TELEPHONE BOX
- ⊕ UTILITY BOX
- ⊕ BORING
- ⊕ UTILITY CONTINUATION
- ⊕ POST/BOLLARD

PROPOSED

- FM — SEWER FORCE MAIN
- S — GRAVITY SEWER
- W — WATER MAIN
- WATER BYPASS
- D — DRAINAGE
- D — DRAINAGE (BID ALTERNATE)
- FILTER SOCK
- ⊕ CYLINDRICAL SEWER MANHOLE
- ⊕ RECTANGULAR SEWER MANHOLE
- ⊕ TEST PIT
- ⊕ CATCH BASIN
- ⊕ CATCH BASIN (BID ALTERNATE)
- ⊕ DRAINAGE MANHOLE
- ⊕ DRAINAGE MANHOLE (BID ALTERNATE)
- ⊕ HYDRANT
- ⊕ WATER GATE VALVE
- ⊕ SEWER FORCE MAIN PLUG VALVE
- ⊕ SEWER FORCE MAIN CHECK VALVE
- ⊕ WATER SHUTOFF
- ⊕ WATER/SEWER LINE CAP
- ⊕ SOLID SLEEVE/TRANSITION COUPLING
- ⊕ WATER BYPASS HYDRANT
- ⊕ WATER VALVE CLOSURE
- ⊕ RESIDENCE REQUIRING TEMPORARY SERVICE

BENCHMARKS

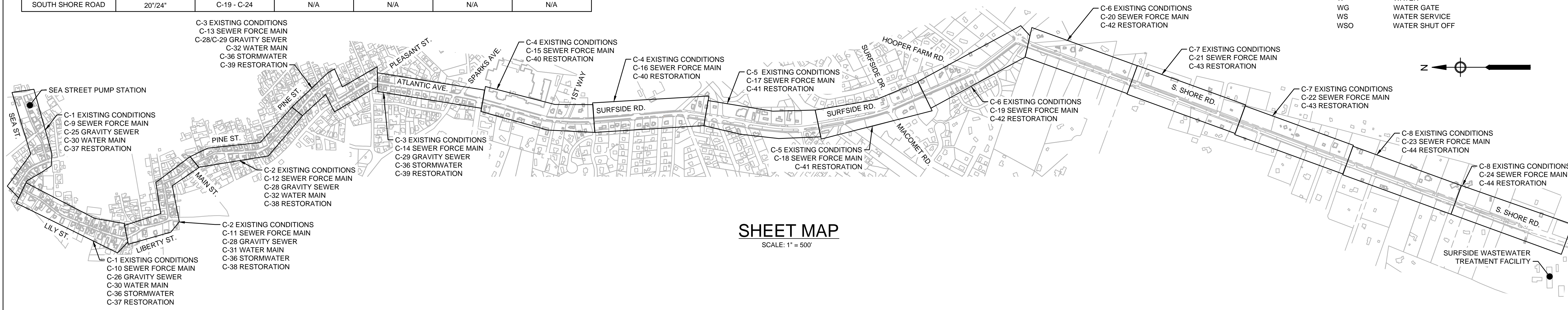
LOCATION DESCRIPTION	STREET	ELEVATION	SHEET
CONCRETE BOUND 5' FROM UTILITY POLE #13/7	SEA STREET	7.54	C-1/C-9
CONCRETE BOUND 61.5' FROM UTILITY POLE #24/16	CENTER STREET	26.10	C-1/C-9
CONCRETE BOUND 40.5' FROM UTILITY POLE #52/2	LILY STREET	17.92	C-1/C-10
MAG NAIL IN PAVEMENT AT HOUSE #8	LILY STREET	17.42	C-1/C-10
MAG NAIL WITH SEAL AT BROCKS COURT	LIBERTY STREET	19.05	C-2/C-11
TOP OF 3/4" IRON PIPE	WINTER STREET	26.56	C-2/C-11
STEEL ROD AT CORNER OF HOUSE #17	PINE STREET	48.38	C-2/C-12
CONCRETE BOUND WITH SEAL IN CURBING	PINE STREET	27.86	C-3/C-13
CONCRETE BOUND IN BITUMINOUS WALK	ATLANTIC AVENUE	39.35	C-3/C-13
CONCRETE BOUND IN BITUMINOUS WALK	ATLANTIC AVENUE	36.78	C-3/C-14
CONCRETE BOUND BETWEEN #1 AND #3	SURFSIDE ROAD	36.62	C-3/C-14
SPIKE SET IN BRICK WALK	SURFSIDE ROAD	30.49	C-4/C-15
MAG NAIL IN BIKE PATH	SURFSIDE ROAD	23.89	C-5/C-17
CONCRETE BOUND AT HATIKVA WAY	SURFSIDE ROAD	38.37	C-5/C-18
MAG NAIL IN BIKE PATH	SOUTH SHORE ROAD	31.40	C-6/C-19
CONCRETE BOUND WITH SEAL AT PLOVER LANE	SOUTH SHORE ROAD	20.70	C-7/C-21
CONCRETE BOUND AT ZACHARY WAY	SOUTH SHORE ROAD	24.41	C-7/C-22
CONCRETE BOUND BETWEEN #62 AND #64	SOUTH SHORE ROAD	22.05	C-8/C-23

ABBREVIATIONS

- ABND ABANDONED
- AC/ACP ASBESTOS CEMENT/ASBESTOS CEMENT PIPE
- ARV AIR RELEASE/VACUUM RELIEF VALVE
- AV AIR RELEASE/VACUUM RELIEF VALVE
- B&SCL CEMENT LINED BRUSHED STEEL
- BITSW BITUMINOUS CONCRETE SIDEWALK
- BO-CO BLOW-OFF/CLEANOUT
- BOS BOTTOM OF STRUCTURE
- BSW BRICK SIDEWALK
- CB CATCH BASIN
- CDF CONTROLLED DENSITY FILL
- CI CAST IRON
- CL CEMENT LINED
- CLDI CEMENT LINED DUCTILE IRON
- CMP CORRUGATED METAL PIPE
- CPP CORRUGATED PLASTIC PIPE
- CS COATED STEEL
- CU COPPER
- CW CROSSWALK
- D DRAIN
- DCB DOUBLE CATCH BASIN
- DI DUCTILE IRON
- DWY DRIVEWAY
- E ELECTRIC
- EL ELEVATION
- EOP EDGE OF PAVEMENT
- EMH ELECTRIC MANHOLE
- FM FORCE MAIN
- G GAS
- GG GAS GATE
- IAMH INTERMEDIATE ACCESS POINT MANHOLE
- INV INVERT
- LCB LEACHING CATCH BASIN
- MW MONITORING WELL
- PL PLASTIC
- PROP PROPOSED
- PV PLUG VALVE
- PVC POLYVINYL CHLORIDE
- RCP REINFORCED CONCRETE PIPE
- S SEWER
- SMH SEWER MANHOLE
- SS SEWER SERVICE
- ST STEEL
- T TELEPHONE
- TCB TRAFFIC CONTROL BOX
- TMH TELEPHONE MANHOLE
- TOB TOP OF BASIN
- TOW TOP OF WATER
- TR TROUGH
- U/UNK UNKNOWN
- UNI UNIVERSAL STEEL PIPE
- VC VITRIFIED CLAY
- VGC VERTICAL GRANITE CURB
- W WATER
- WG WATER GATE
- WS WATER SERVICE
- WSO WATER SHUT OFF

SEWER FORCE MAIN, GRAVITY SEWER, AND WATER MAIN SIZE AND SHEET GUIDE

STREET NAME	SEWER FORCE MAIN INSTALLATION		GRAVITY SEWER REPLACEMENT		WATER MAIN REPLACEMENT	
	SIZE	SHEET	SIZE	SHEET	SIZE	SHEET
SEA STREET	20"	C-9	8"	C-25	6"	C-30
STEP LANE	20"	C-9	8"	C-25	6"	C-30
CENTRE STREET	20"	C-9	10"	C-25	N/A	N/A
LILY STREET	20"	C-10	12"	C-26	6"	C-30
LIBERTY STREET	20"	C-11	8 1/2"	C-27	6"	C-31
WINTER STREET	20"	C-11	8"	C-27	8"	C-31
PINE STREET	20"	C-12 - C-13	8"	C-28	8"	C-32
SILVER STREET	20"	C-13	8"	C-29	6"	C-32
PLEASANT STREET	20"	C-13	N/A	N/A	N/A	N/A
ATLANTIC AVENUE	20"	C-14	8"	C-29	N/A	N/A
SURFSIDE ROAD	20 1/2"	C-14 - C-19	N/A	N/A	N/A	N/A
SOUTH SHORE ROAD	20 1/2"	C-19 - C-24	N/A	N/A	N/A	N/A



SHEET MAP

SCALE: 1" = 500'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

**SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA**

LEGEND, ABBREVIATIONS, AND SHEET MAP

FOR CONSTRUCTION
Sheet No.

G-4

Drawing file: I:\Nantucket\360-2001 - Sea St SPS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\02 General Notes and Legend.dwg Plot Date: Aug 31, 2021 5:16pm



PLAN
SCALE: 1"=40'

PLAN
SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA
SEA STREET, STEP LANE, CENTRE STREET, AND LILY STREET
EXISTING CONDITIONS PLAN

FOR CONSTRUCTION
Sheet No.
C-1



PLAN
SCALE: 1"=40'

PLAN
SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

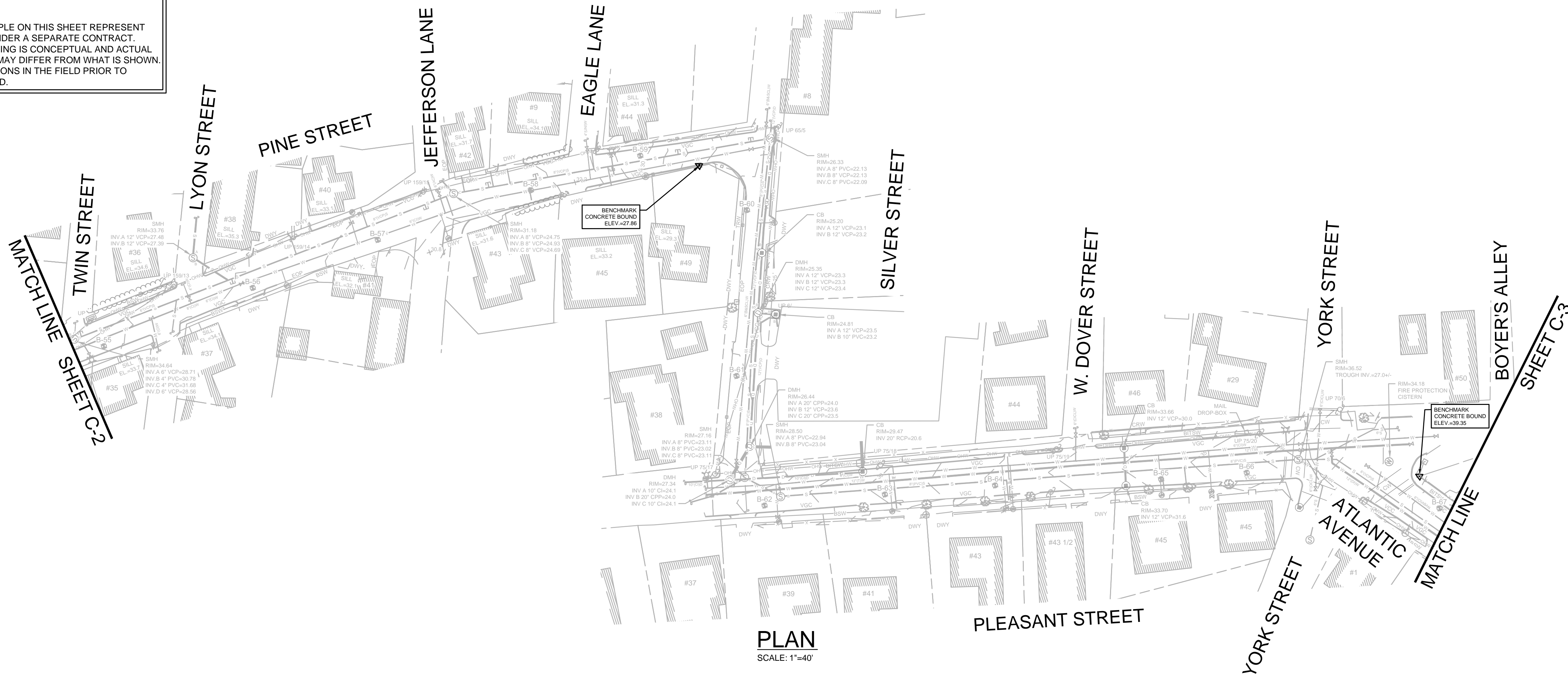
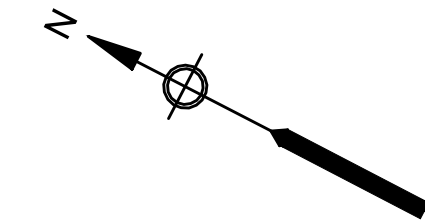
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

LIBERTY STREET, WINTER STREET, AND PINE STREET
EXISTING CONDITIONS PLAN

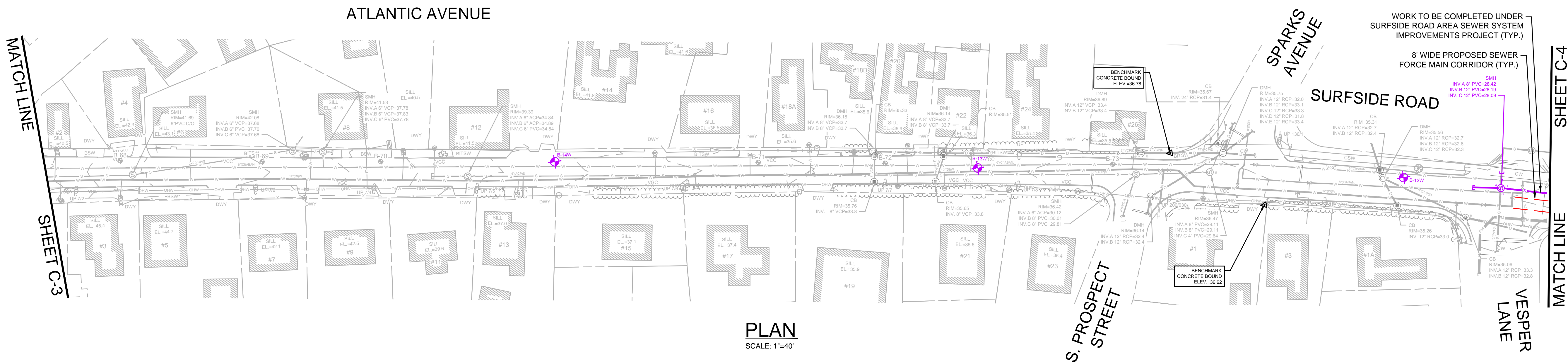
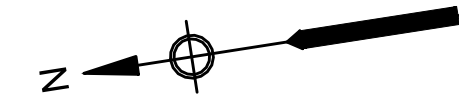
FOR CONSTRUCTION
Sheet No.
C-2

Drawing file: I:\Nantucket\360-2001 - Sea St PS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\03 Existing Conditions.dwg Plot Date: Aug 30, 2021 12:56pm

NOTES:
 1. SEWER IMPROVEMENTS SHOWN IN PURPLE ON THIS SHEET REPRESENT ONGOING WORK ON SURFSIDE ROAD UNDER A SEPARATE CONTRACT. INFORMATION PROVIDED ON THIS DRAWING IS CONCEPTUAL AND ACTUAL LOCATIONS OF THESE IMPROVEMENTS MAY DIFFER FROM WHAT IS SHOWN. CONTRACTOR TO VERIFY THESE LOCATIONS IN THE FIELD PRIOR TO COMMENCING WORK ON SURFSIDE ROAD.



PLAN
SCALE: 1"=40'



PLAN
SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
 — An Apex Company —



MARK	DATE	DESCRIPTION

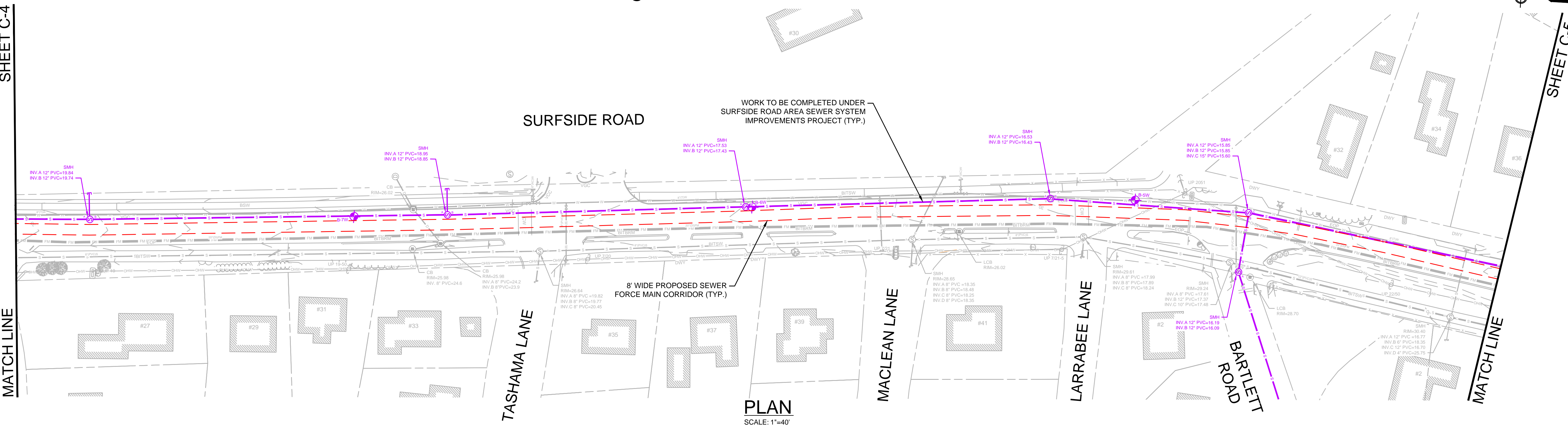
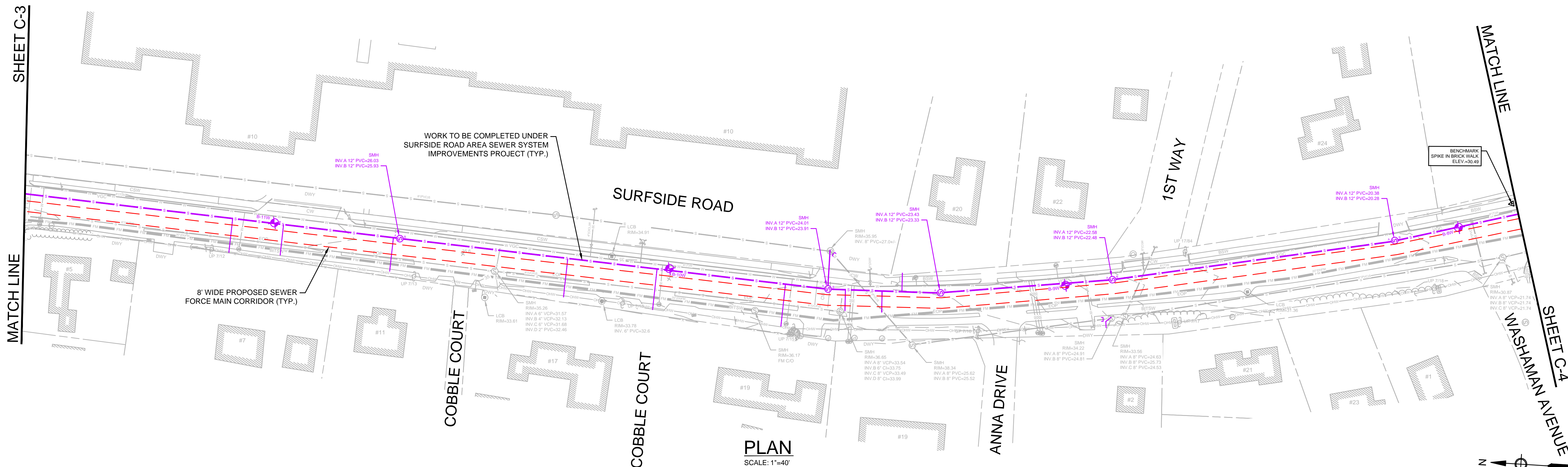
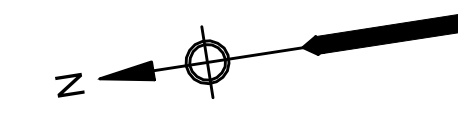
Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
 TOWN OF NANTUCKET, MA
 PINE STREET, SILVER STREET, PLEASANT STREET, ATLANTIC AVENUE,
 AND SURFSIDE ROAD EXISTING CONDITIONS PLAN

FOR CONSTRUCTION
 Sheet No.
C-3

NOTES:
 1. SEWER IMPROVEMENTS SHOWN IN PURPLE ON THIS SHEET REPRESENT ONGOING WORK ON SURFSIDE ROAD UNDER A SEPARATE CONTRACT. INFORMATION PROVIDED ON THIS DRAWING IS CONCEPTUAL AND ACTUAL LOCATIONS OF THESE IMPROVEMENTS MAY DIFFER FROM WHAT IS SHOWN. CONTRACTOR TO VERIFY THESE LOCATIONS IN THE FIELD PRIOR TO COMMENCING WORK ON SURFSIDE ROAD.



ENVIRONMENTAL PARTNERS
 An Apex Company



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

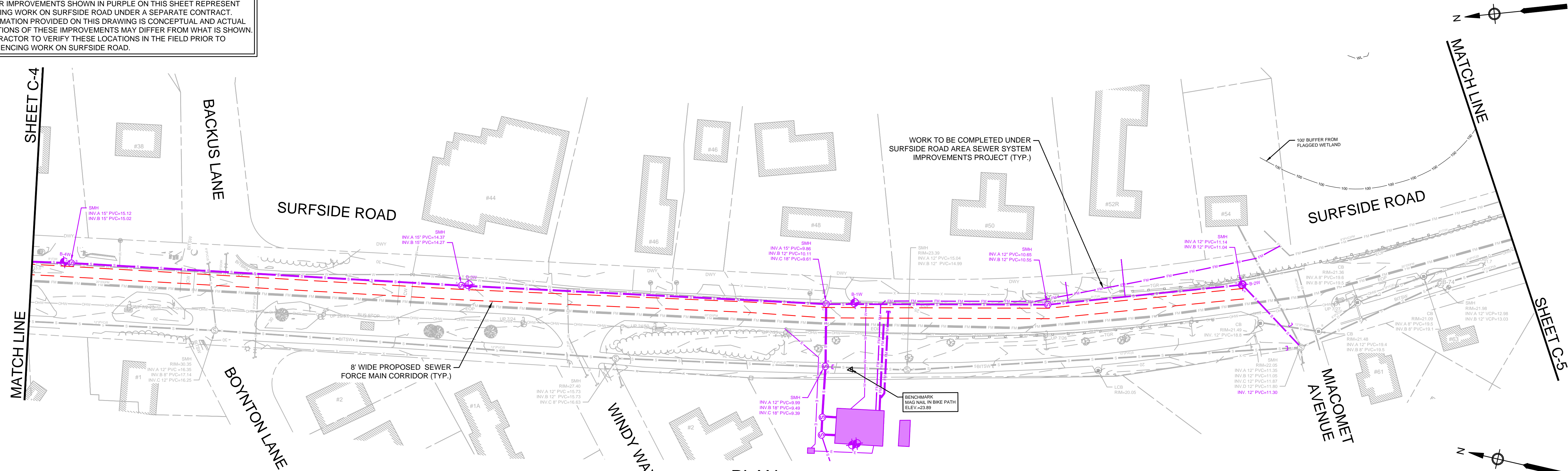
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SEA STREET PUMP STATION FORCE MAIN NO.3
 TOWN OF NANTUCKET, MA
 SURFSIDE ROAD
 EXISTING CONDITIONS PLAN

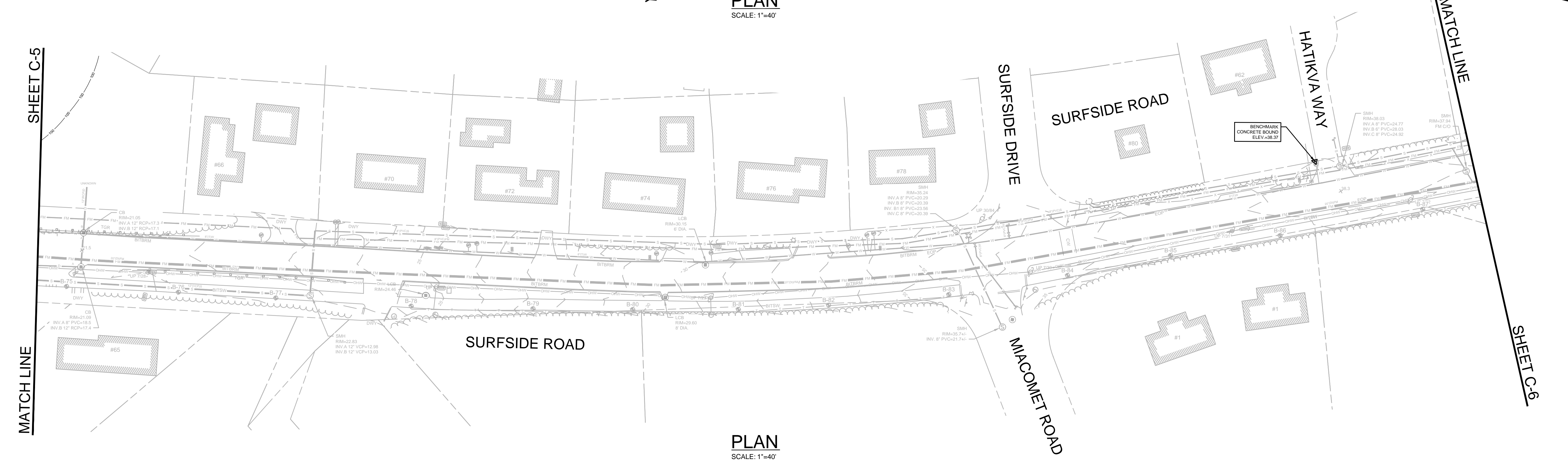
FOR CONSTRUCTION
 Sheet No.

C-4

NOTES:
 1. SEWER IMPROVEMENTS SHOWN IN PURPLE ON THIS SHEET REPRESENT ONGOING WORK ON SURFSIDE ROAD UNDER A SEPARATE CONTRACT. INFORMATION PROVIDED ON THIS DRAWING IS CONCEPTUAL AND ACTUAL LOCATIONS OF THESE IMPROVEMENTS MAY DIFFER FROM WHAT IS SHOWN. CONTRACTOR TO VERIFY THESE LOCATIONS IN THE FIELD PRIOR TO COMMENCING WORK ON SURFSIDE ROAD.



PLAN
SCALE: 1"=40'



PLAN
SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
 An Apex Company



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
 TOWN OF NANTUCKET, MA
 SURFSIDE ROAD
 EXISTING CONDITIONS PLAN

FOR CONSTRUCTION
 Sheet No.
C-5

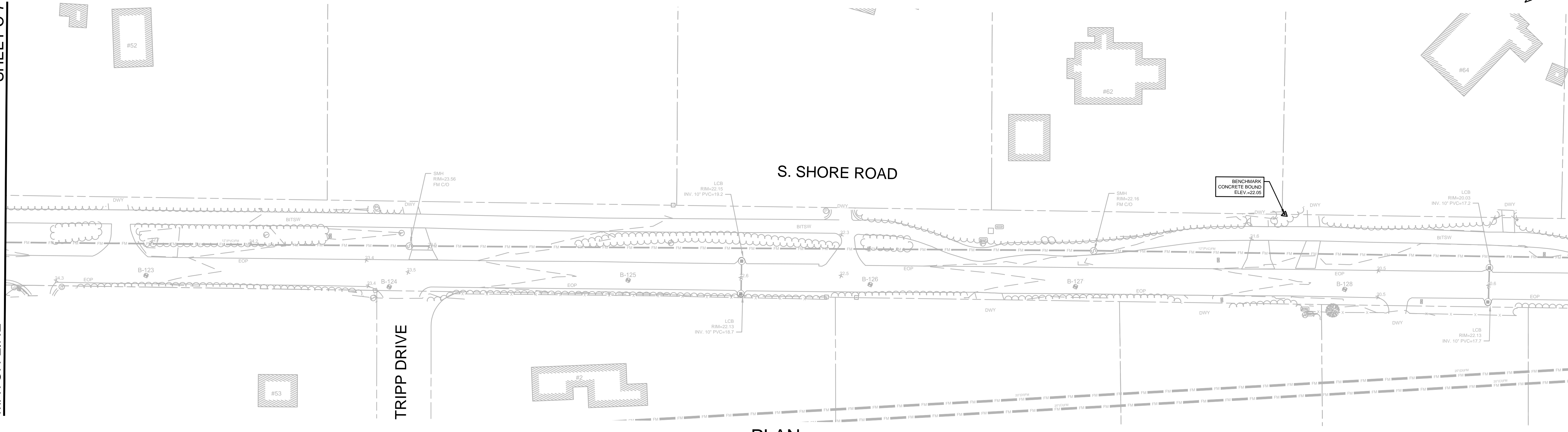
Drawing file: I:\Nantucket\360-2001 - Sea St PS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\03 Existing Conditions.dwg Plot Date: Aug 30, 2021 1:10pm

SHEET C-7

MATCH LINE

SHEET C-8

MATCH LINE

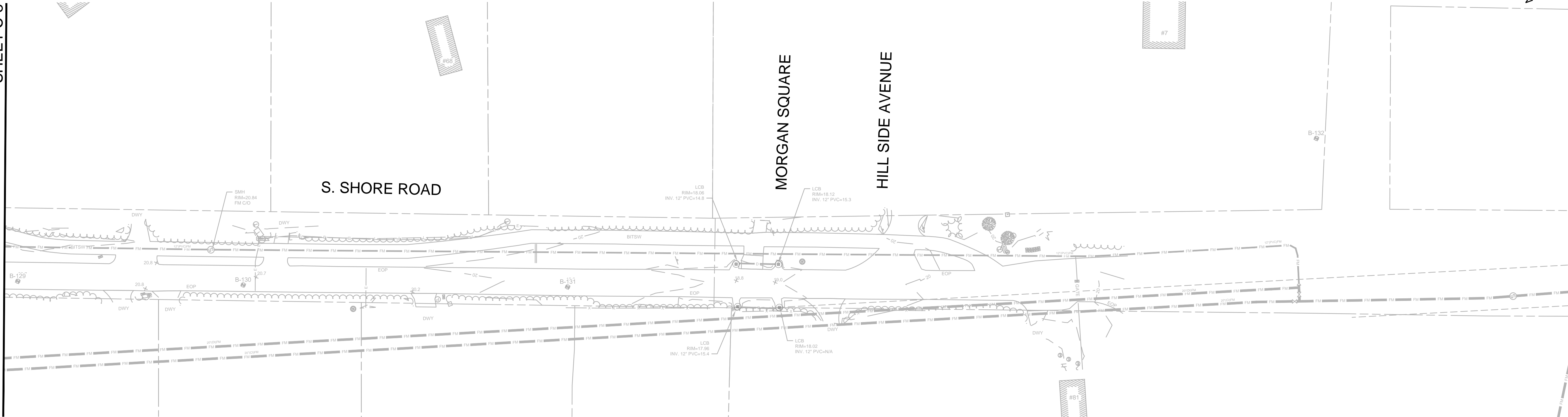


PLAN
SCALE: 1"=40'

SHEET C-8

MATCH LINE

MATCH LINE



PLAN
SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

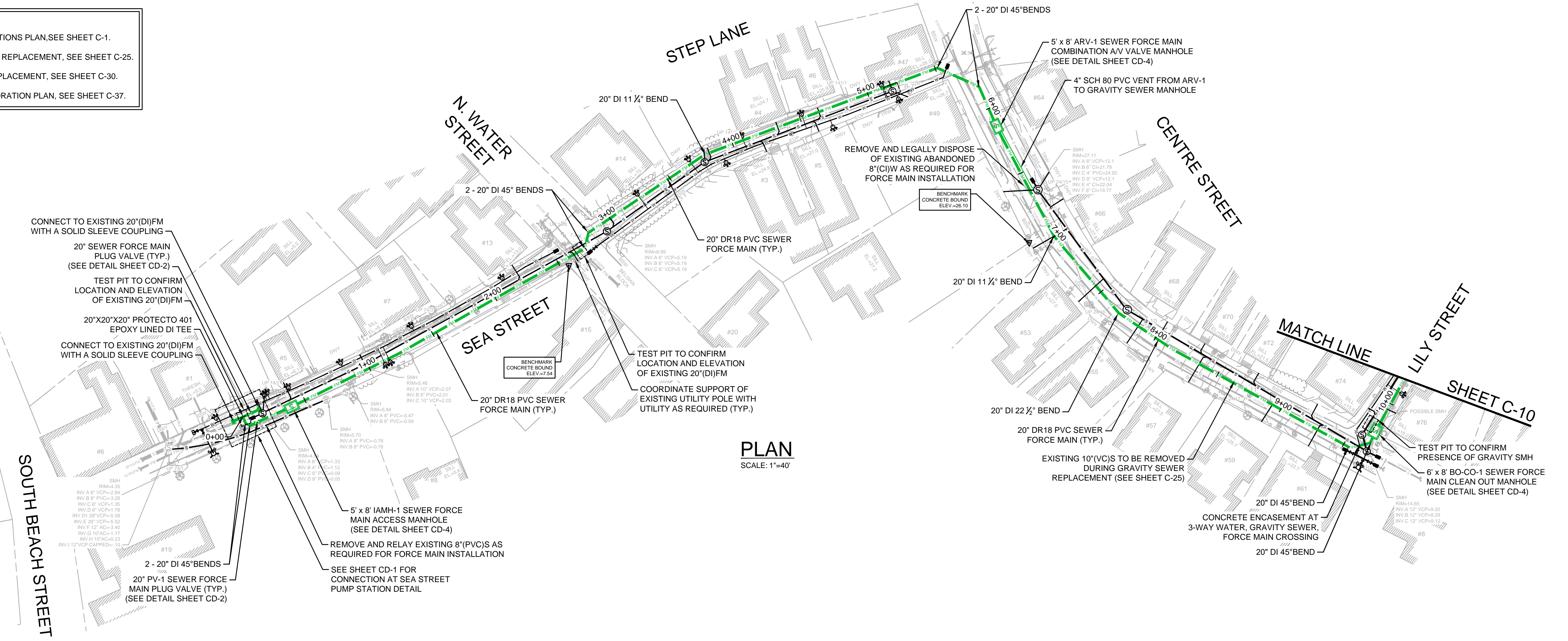
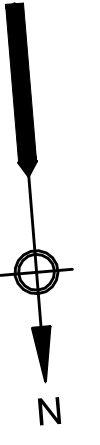
S. SHORE ROAD
EXISTING CONDITIONS PLAN

FOR CONSTRUCTION
Sheet No.

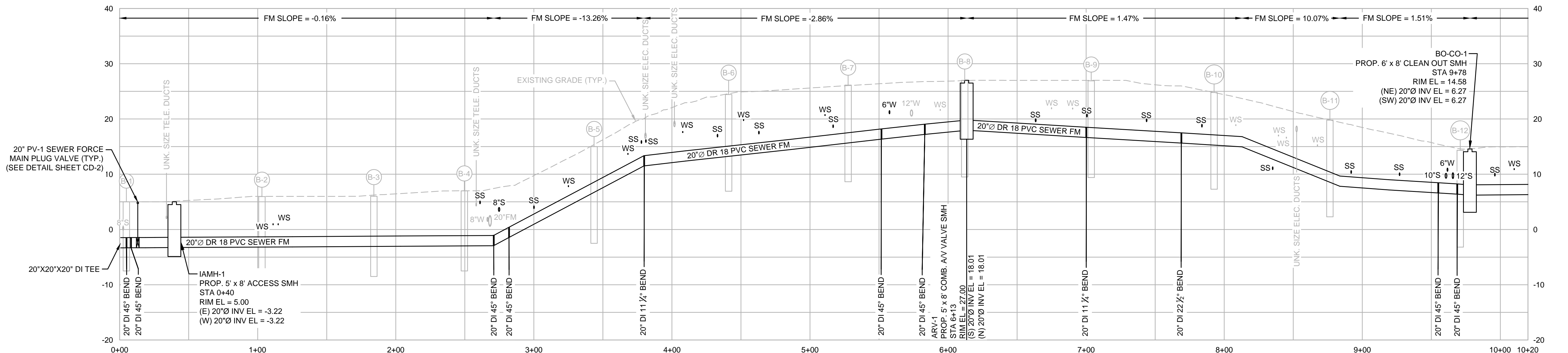
C-8

Drawing file: I:\Nantucket\360-2001 - Sea St PWS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\03 Existing Conditions.dwg Plot Date: Aug 30 2021 1:18pm

- NOTES:
1. FOR EXISTING CONDITIONS PLAN, SEE SHEET C-1.
 2. FOR GRAVITY SEWER REPLACEMENT, SEE SHEET C-25.
 3. FOR WATER MAIN REPLACEMENT, SEE SHEET C-30.
 4. FOR SURFACE RESTORATION PLAN, SEE SHEET C-37.



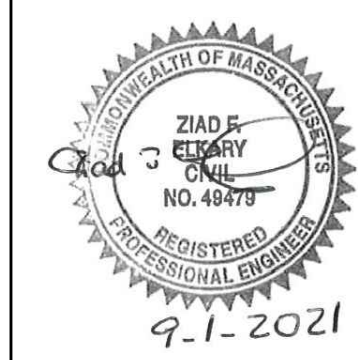
PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

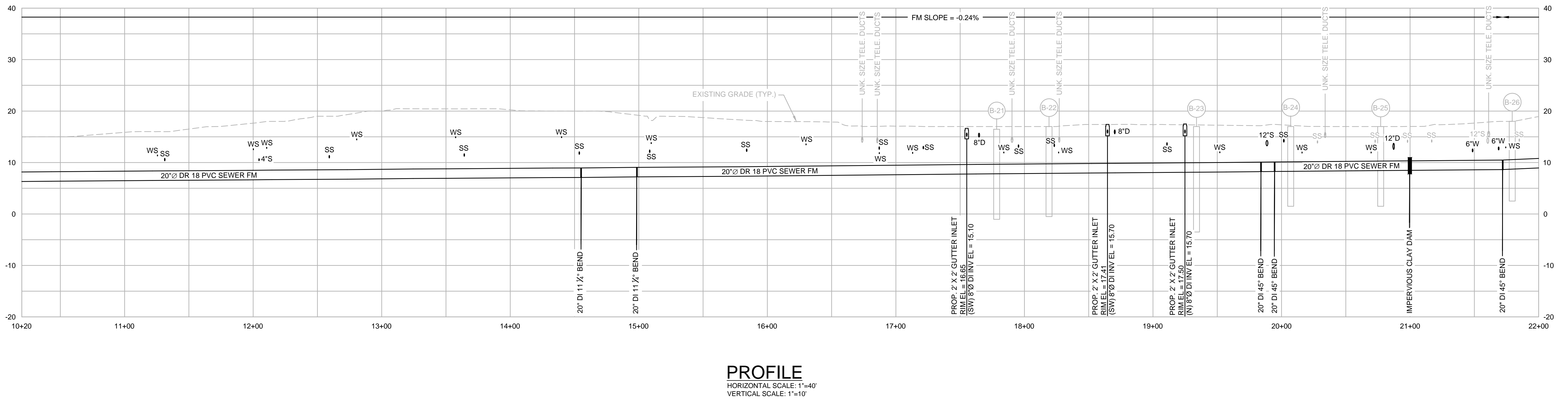
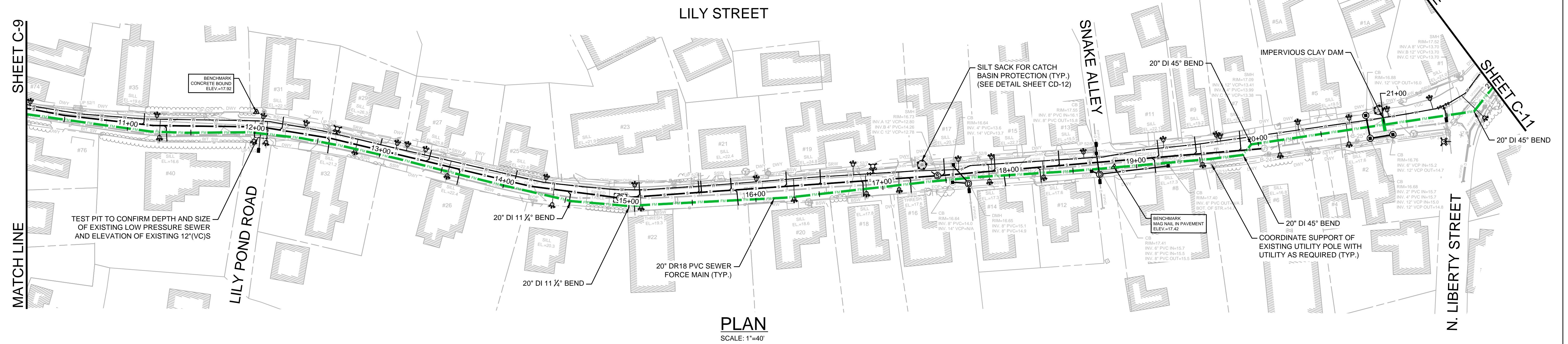
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

SEA STREET, STEP LANE, AND CENTRE STREET
STA 0+00 TO STA 10+20

FOR CONSTRUCTION
Sheet No.

C-9

- NOTES:
1. FOR EXISTING CONDITIONS PLAN, SEE SHEET C-1.
 2. FOR GRAVITY SEWER REPLACEMENT, SEE SHEET C-26.
 3. FOR WATER MAIN REPLACEMENT, SEE SHEET C-30.
 4. FOR STORMWATER IMPROVEMENTS, SEE SHEET C-36.
 5. FOR SURFACE RESTORATION PLAN, SEE SHEET C-37.



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

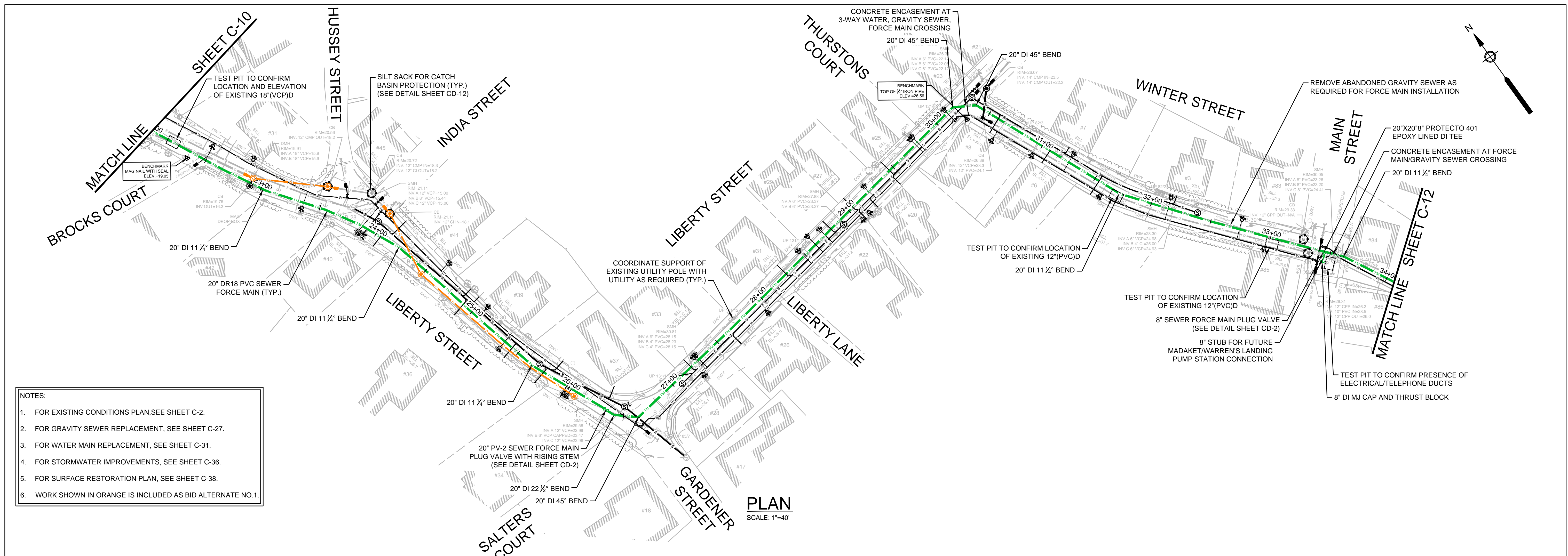
THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

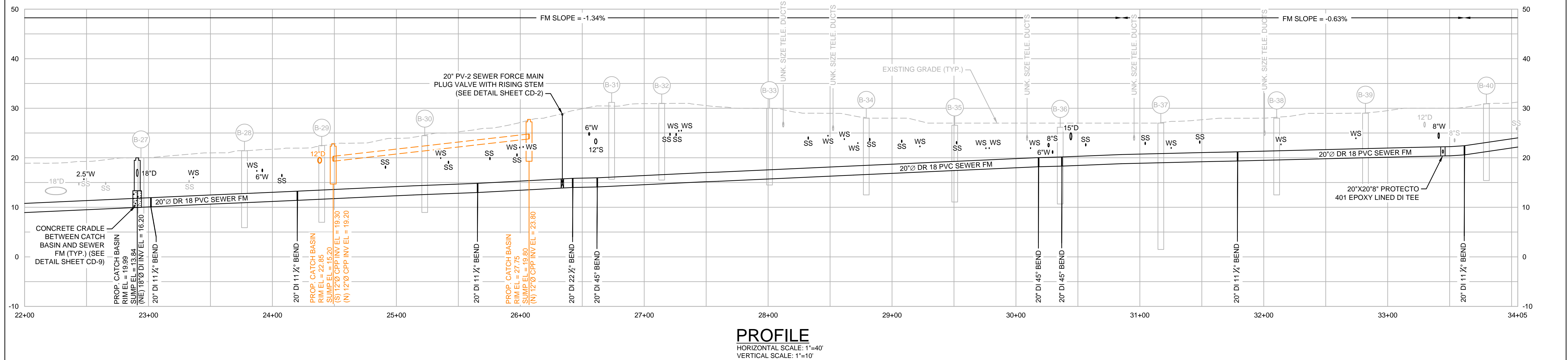
LILY STREET
STA 10+20 TO 22+00

FOR CONSTRUCTION
Sheet No.

C-10

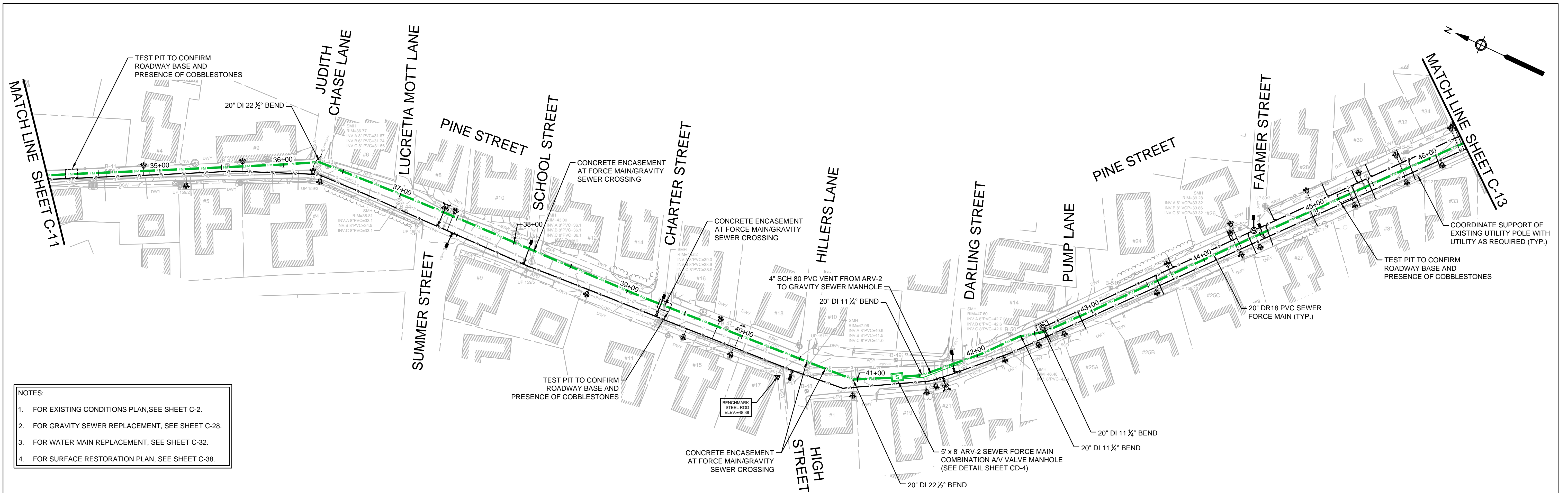


- NOTES:**
1. FOR EXISTING CONDITIONS PLAN, SEE SHEET C-2.
 2. FOR GRAVITY SEWER REPLACEMENT, SEE SHEET C-27.
 3. FOR WATER MAIN REPLACEMENT, SEE SHEET C-31.
 4. FOR STORMWATER IMPROVEMENTS, SEE SHEET C-36.
 5. FOR SURFACE RESTORATION PLAN, SEE SHEET C-38.
 6. WORK SHOWN IN ORANGE IS INCLUDED AS BID ALTERNATE NO. 1.



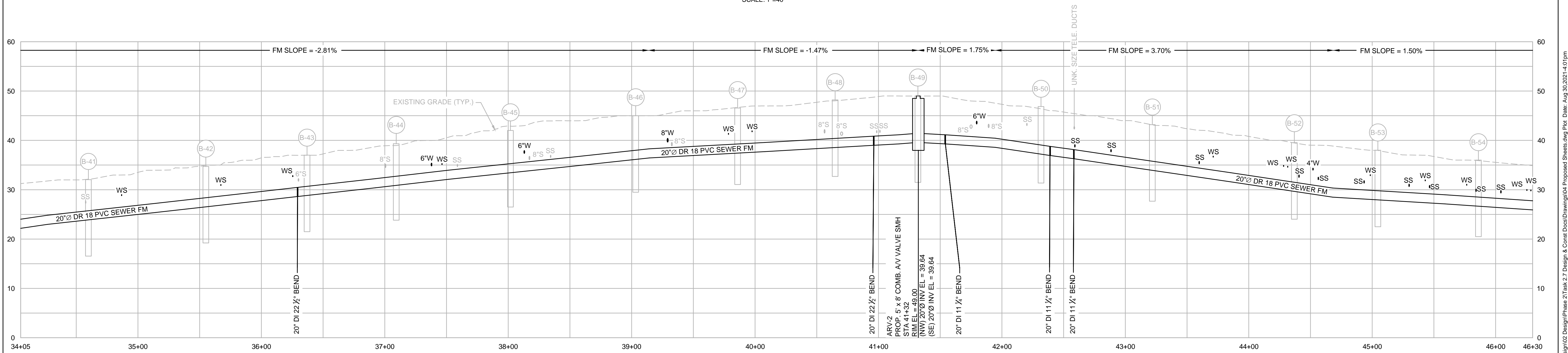
			MARK	DATE	DESCRIPTION	Scale	AS NOTED		SEA STREET PUMP STATION FORCE MAIN NO.3 TOWN OF NANTUCKET, MA	FOR CONSTRUCTION
						Date	SEPTEMBER 2021			Job No.
						Drawn by	FJB		LIBERTY STREET AND WINTER STREET STA 22+00 TO STA 34+05	C-11
						Checked by	RJR/PCM/RJA			
						Approved by	ZFK			

Drawing File: I:\Nantucket\360-2001 - Sea St PWS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2024 - 3:54pm



PLAN
SCALE: 1"=40'

- NOTES:**
1. FOR EXISTING CONDITIONS PLAN, SEE SHEET C-2.
 2. FOR GRAVITY SEWER REPLACEMENT, SEE SHEET C-28.
 3. FOR WATER MAIN REPLACEMENT, SEE SHEET C-32.
 4. FOR SURFACE RESTORATION PLAN, SEE SHEET C-38.

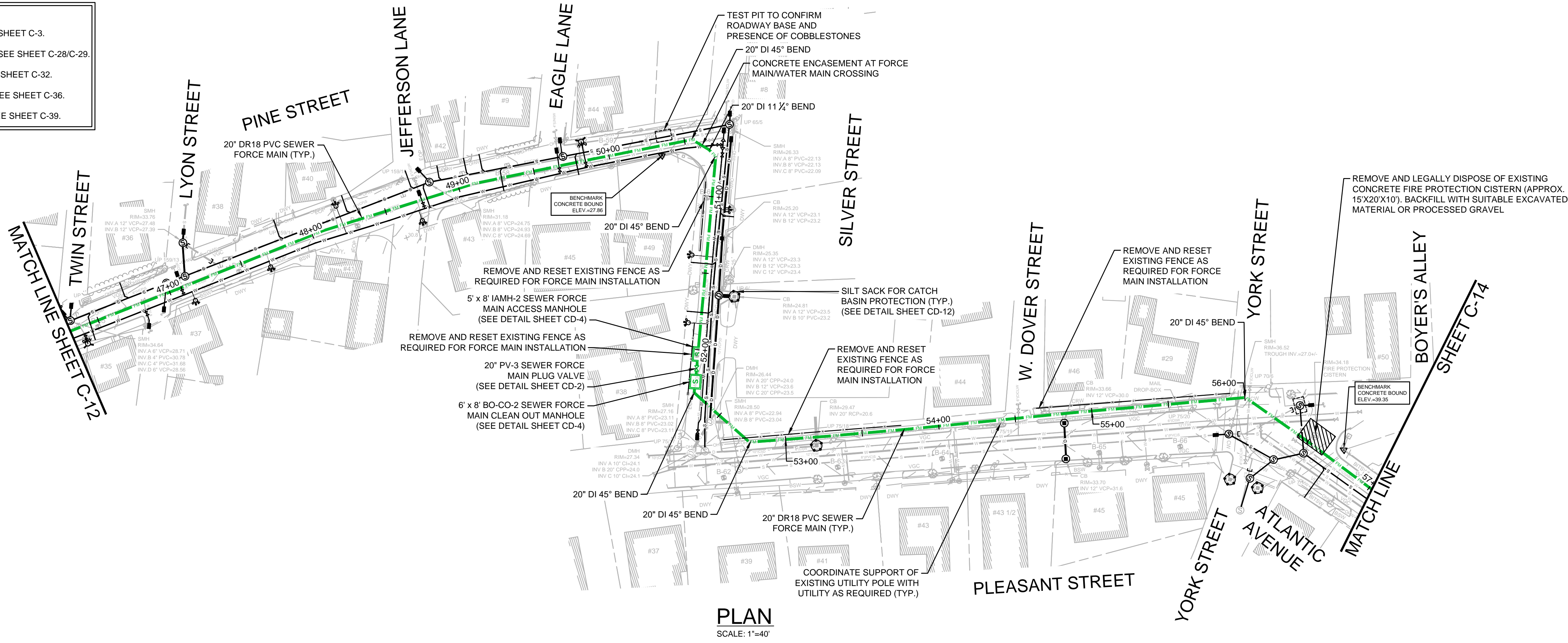
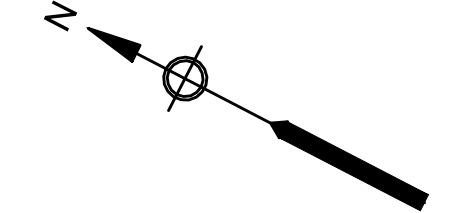


PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'

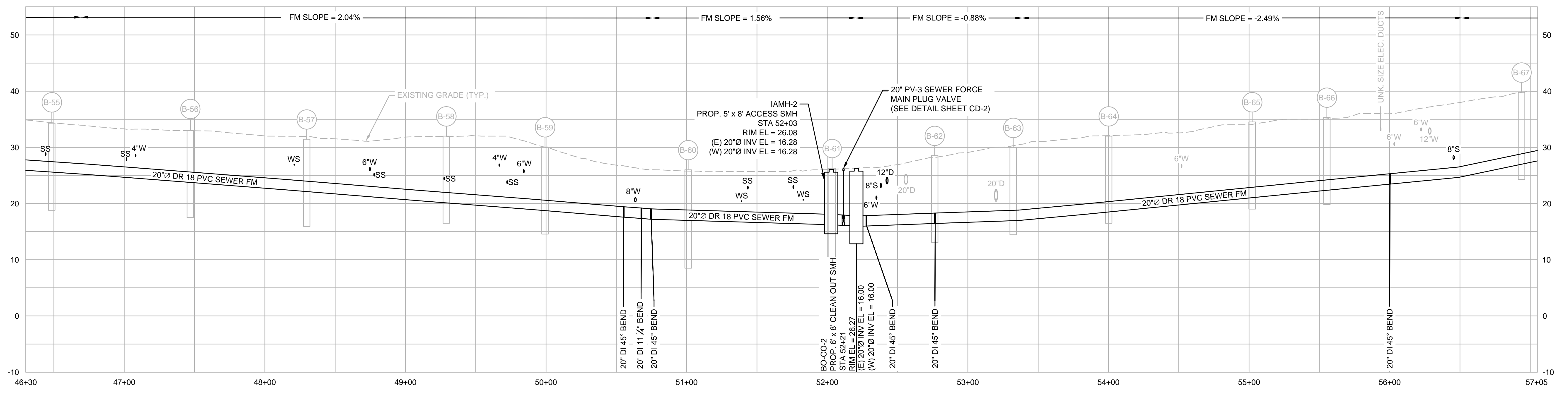
	ENVIRONMENTAL PARTNERS — An Apex Company —					SEA STREET PUMP STATION FORCE MAIN NO.3 TOWN OF NANTUCKET, MA PINE STREET STA 34+05 TO STA 46+30	FOR CONSTRUCTION
						C-12	

Drawing file: I:\Nantucket\060-2001 - Sea St SPS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 4:01 pm

- NOTES:
1. FOR EXISTING CONDITIONS PLAN, SEE SHEET C-3.
 2. FOR GRAVITY SEWER REPLACEMENT, SEE SHEET C-28/C-29.
 3. FOR WATER MAIN REPLACEMENT, SEE SHEET C-32.
 4. FOR STORMWATER IMPROVEMENTS, SEE SHEET C-36.
 5. FOR SURFACE RESTORATION PLAN, SEE SHEET C-39.



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

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SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

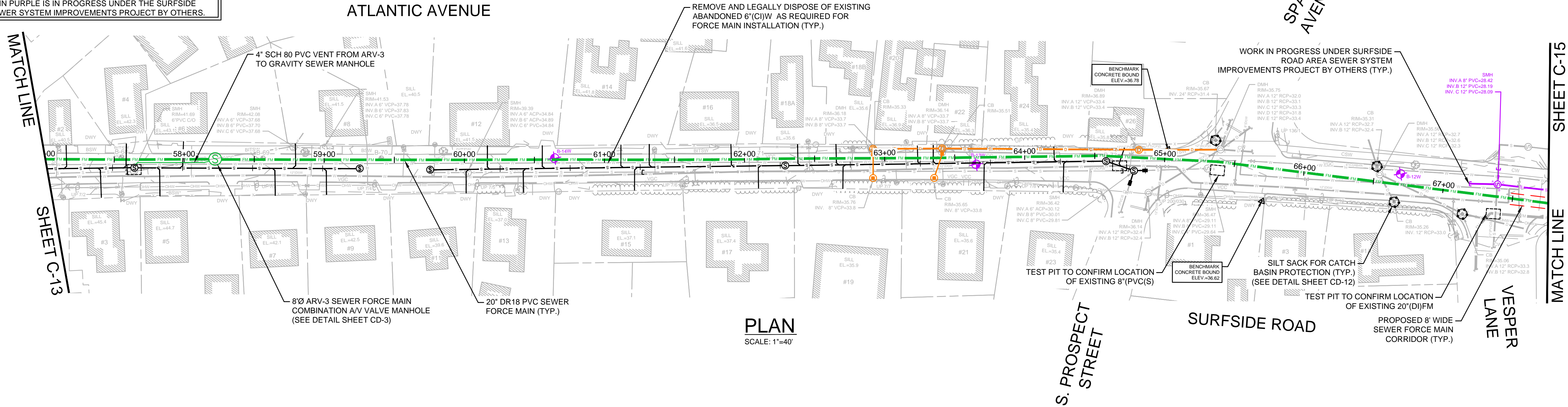
PINE STREET, SILVER STREET, AND PLEASANT STREET
STA 46+30 TO STA 57+05

FOR CONSTRUCTION

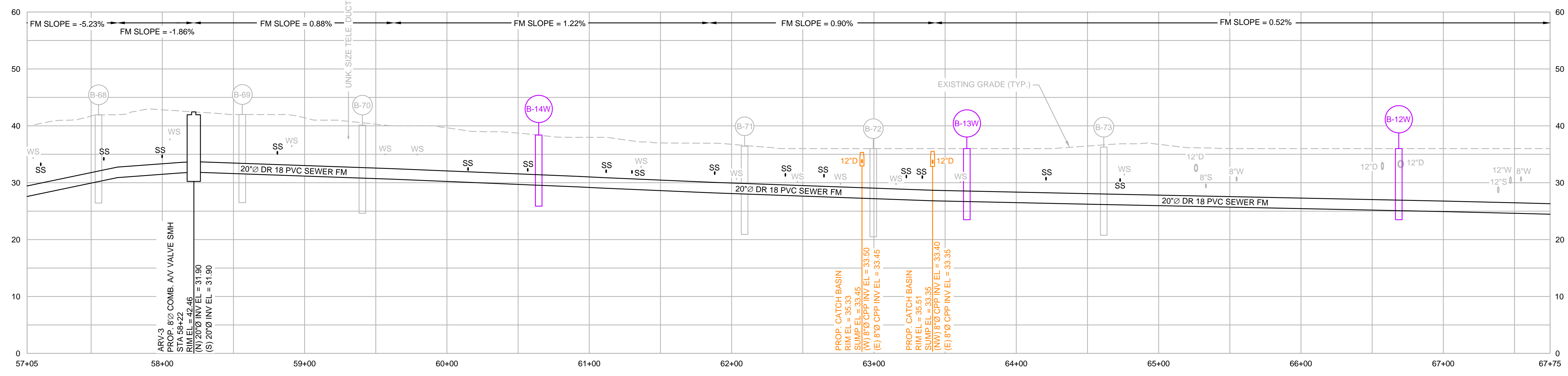
Sheet No.

C-13

- NOTES:
- FOR EXISTING CONDITIONS PLAN, SEE SHEET C-3.
 - FOR GRAVITY SEWER REPLACEMENT, SEE SHEET C-29.
 - FOR STORMWATER IMPROVEMENTS, SEE SHEET C-36.
 - FOR SURFACE RESTORATION PLAN, SEE SHEET C-39.
 - WORK SHOWN IN ORANGE IS INCLUDED AS BID ALTERNATE NO.3.
 - WORK SHOWN IN PURPLE IS IN PROGRESS UNDER THE SURFSIDE ROAD AREA SEWER SYSTEM IMPROVEMENTS PROJECT BY OTHERS.



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

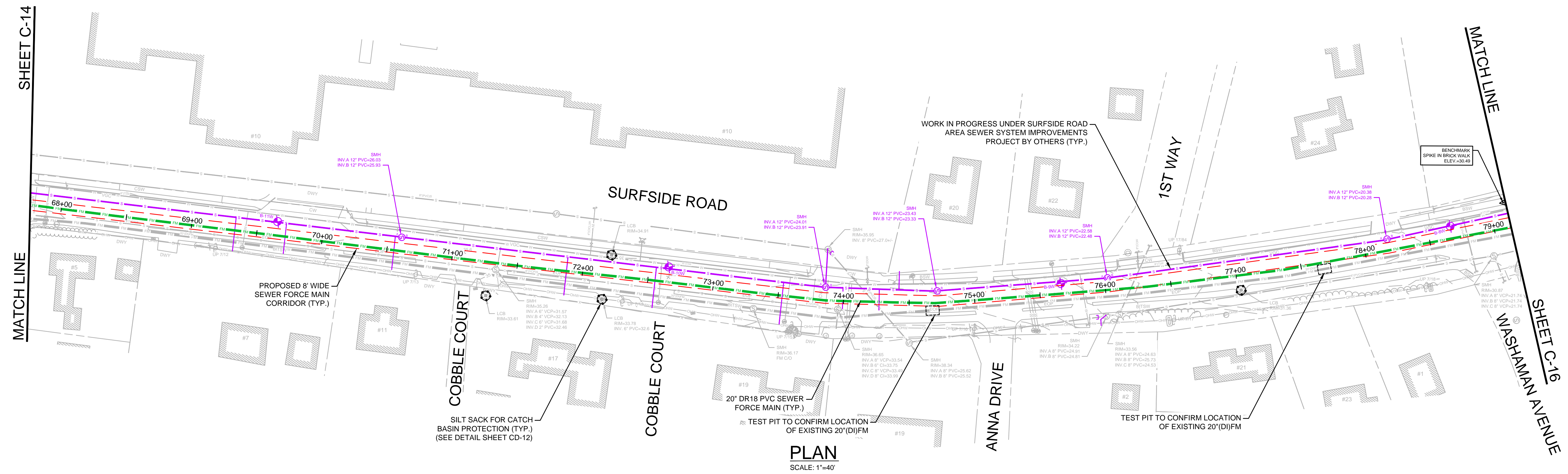
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

ATLANTIC AVENUE AND SURFSIDE ROAD
STA 57+05 TO STA 67+75

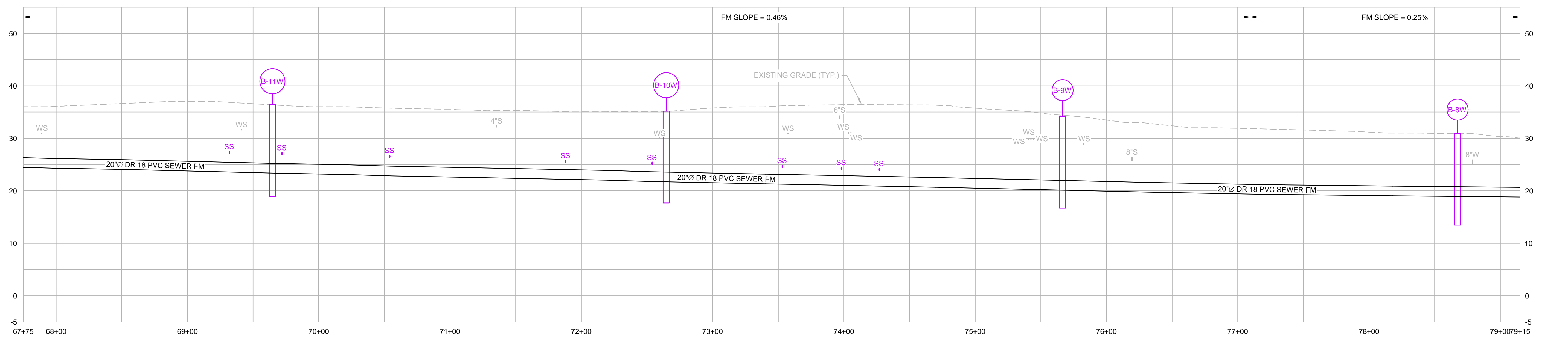
FOR CONSTRUCTION
Sheet No.

C-14

- NOTES:
- FOR EXISTING CONDITIONS PLAN, SEE SHEET C-4.
 - FOR SURFACE RESTORATION PLAN, SEE SHEET C-40.
 - WORK SHOWN IN PURPLE IS IN PROGRESS UNDER THE SURFSIDE ROAD AREA SEWER SYSTEM IMPROVEMENTS PROJECT BY OTHERS.



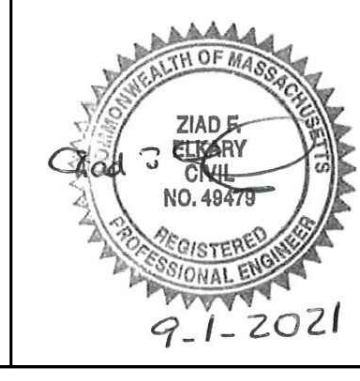
PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

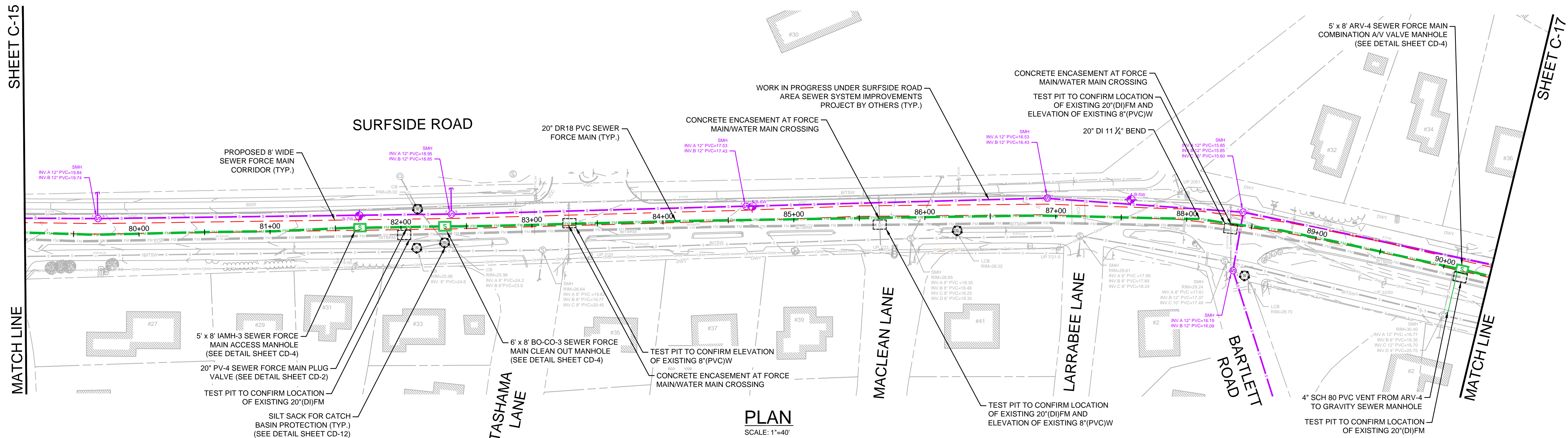
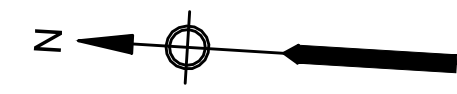
SURFSIDE ROAD
STA 67+75 to STA 79+15

FOR CONSTRUCTION
Sheet No.

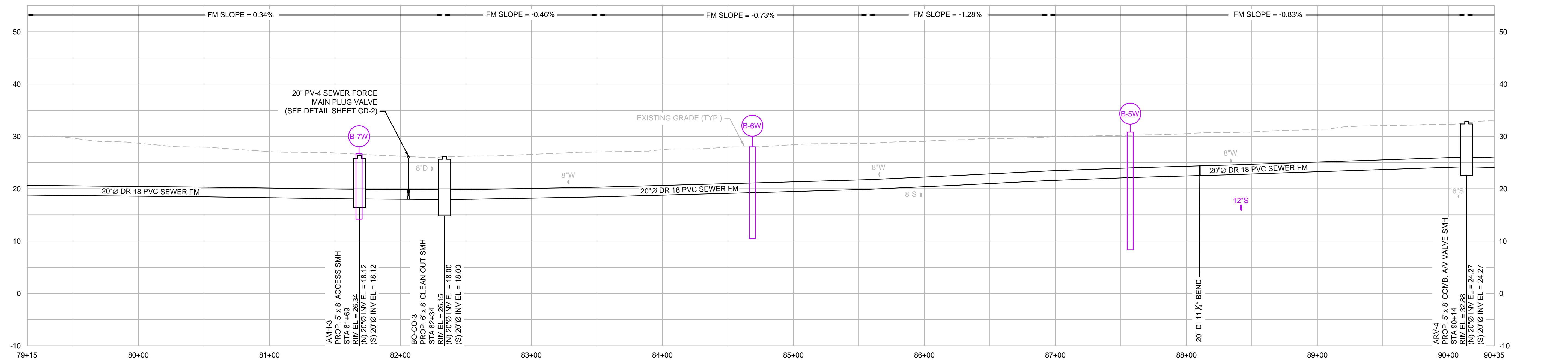
C-15

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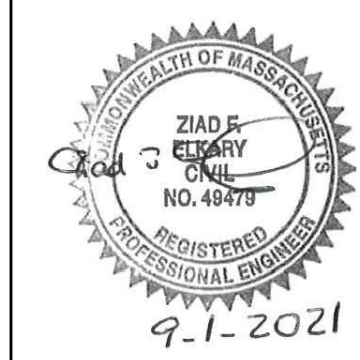
- NOTES:
- FOR EXISTING CONDITIONS PLAN, SEE SHEET C-4.
 - FOR SURFACE RESTORATION PLAN, SEE SHEET C-40.
 - WORK SHOWN IN PURPLE IS IN PROGRESS UNDER THE SURFSIDE ROAD AREA SEWER SYSTEM IMPROVEMENTS PROJECT BY OTHERS.



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

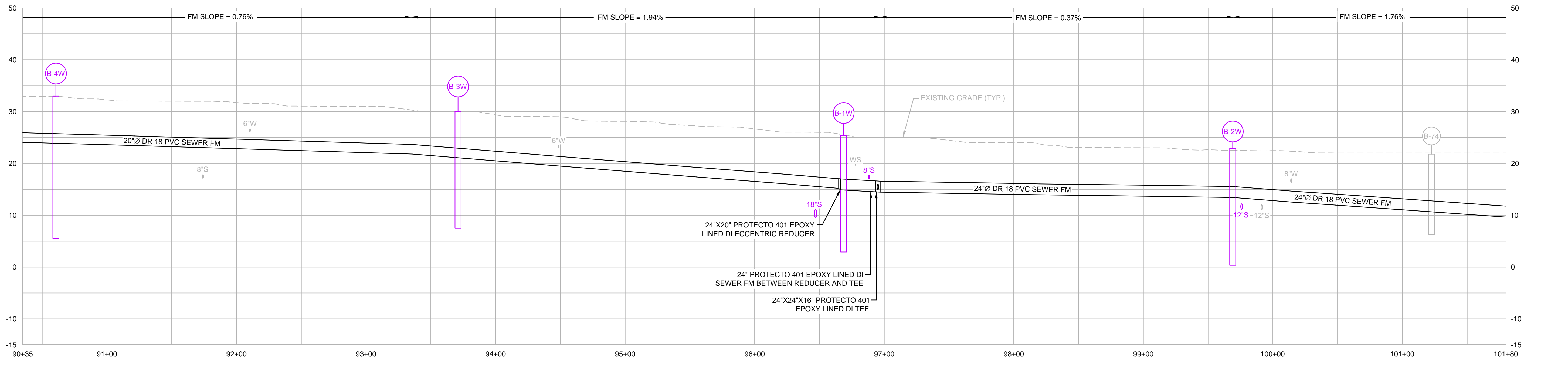
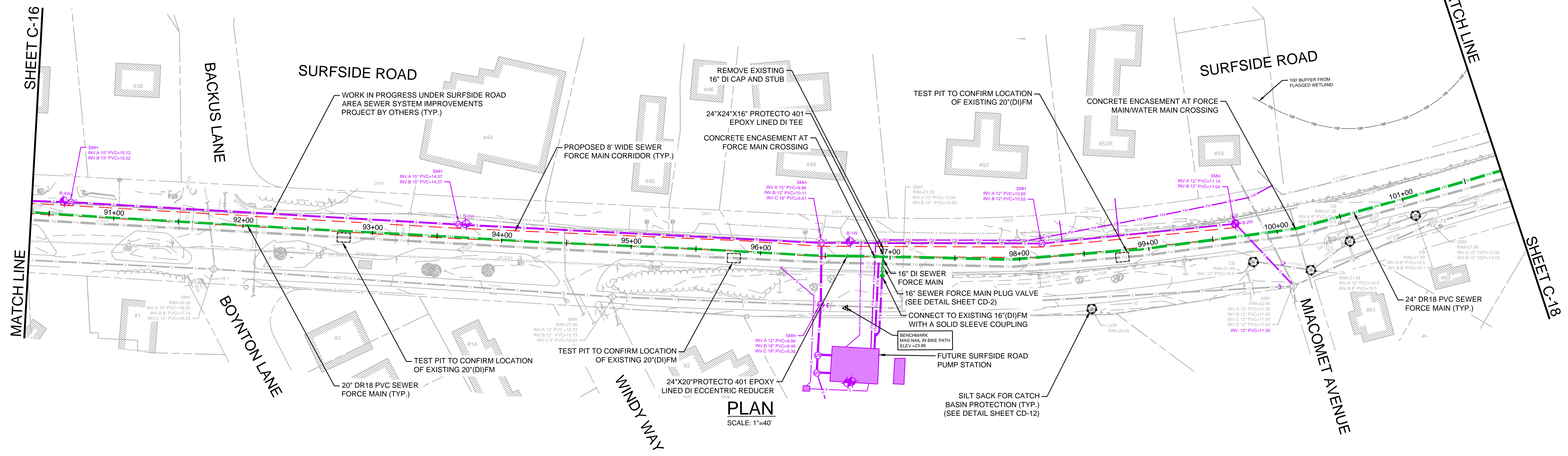
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

SURFSIDE ROAD
STA 79+15 TO STA 90+35

FOR CONSTRUCTION
Sheet No.

C-16

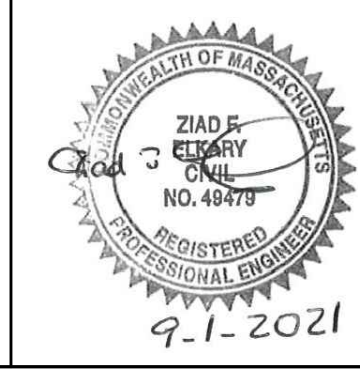
- NOTES:
- FOR EXISTING CONDITIONS PLAN, SEE SHEET C-5.
 - FOR SURFACE RESTORATION PLAN, SEE SHEET C-41.
 - WORK SHOWN IN PURPLE IS IN PROGRESS UNDER THE SURFSIDE ROAD AREA SEWER SYSTEM IMPROVEMENTS PROJECT BY OTHERS.



PROFILE
 HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=10'



ENVIRONMENTAL PARTNERS
 An Apex Company



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
 TOWN OF NANTUCKET, MA

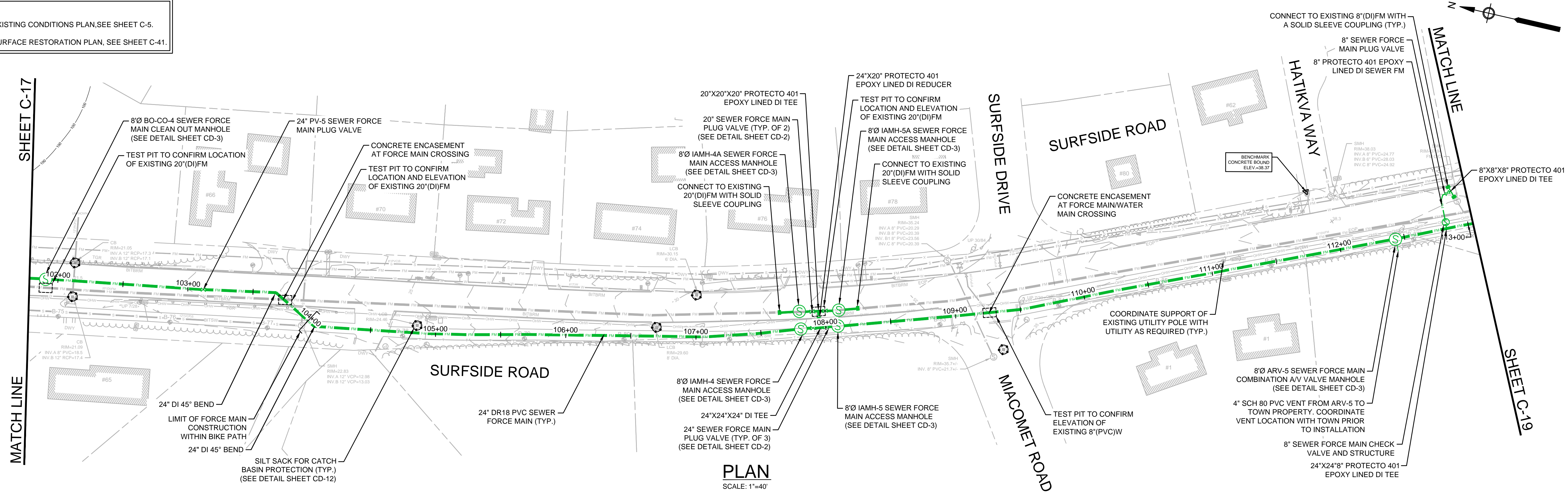
SURFSIDE ROAD
 STA 90+35 TO STA 101+80

FOR CONSTRUCTION
 Sheet No.

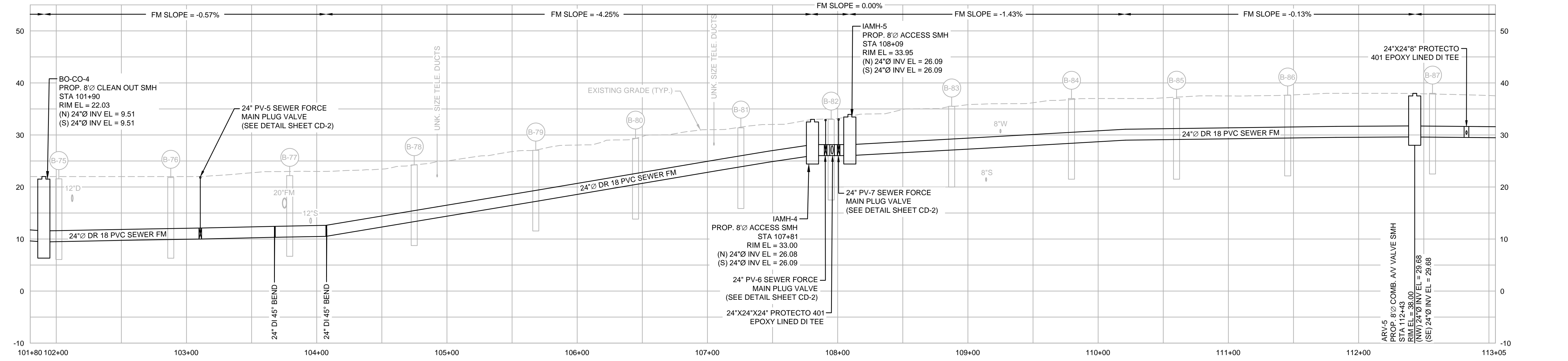
C-17

Drawing file: I:\Nantucket\360-2001 - Sea St SPS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 4:38pm

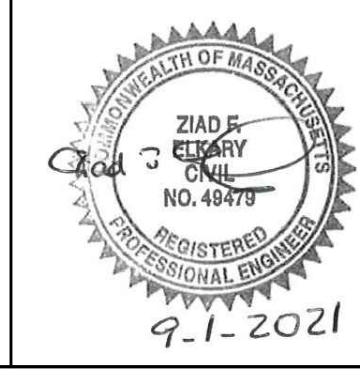
- NOTES:
- FOR EXISTING CONDITIONS PLAN, SEE SHEET C-5.
 - FOR SURFACE RESTORATION PLAN, SEE SHEET C-41.



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

SURFSIDE ROAD
STA 101+80 TO STA 113+05

FOR CONSTRUCTION
Sheet No.

C-18

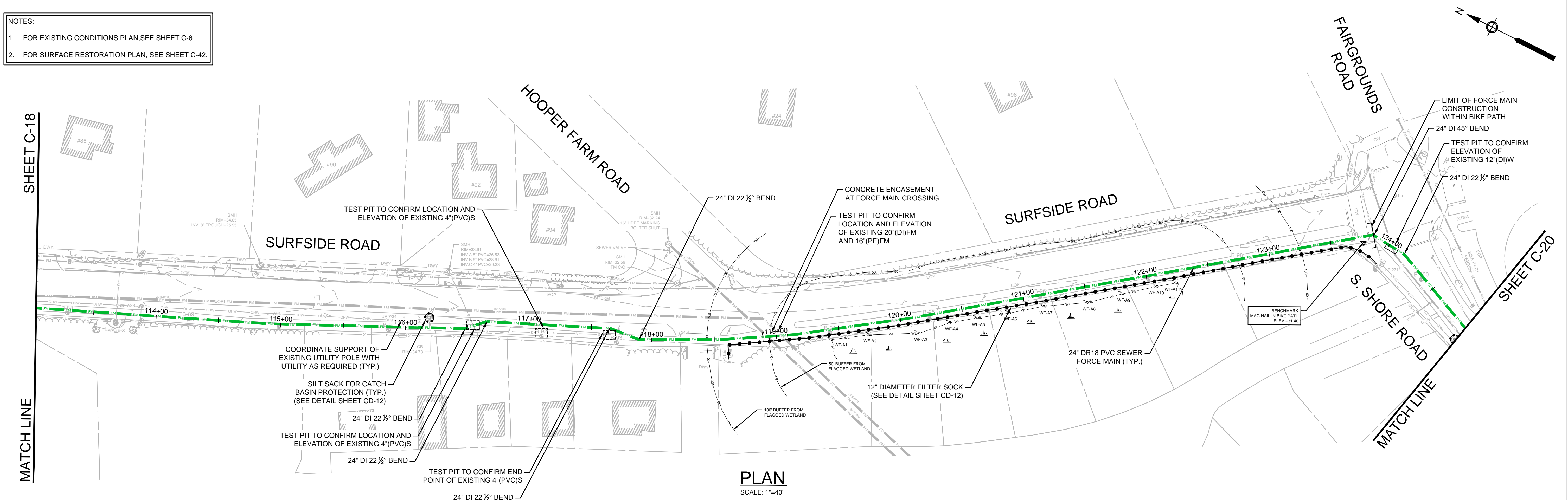
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- NOTES:
- FOR EXISTING CONDITIONS PLAN, SEE SHEET C-6.
 - FOR SURFACE RESTORATION PLAN, SEE SHEET C-42.

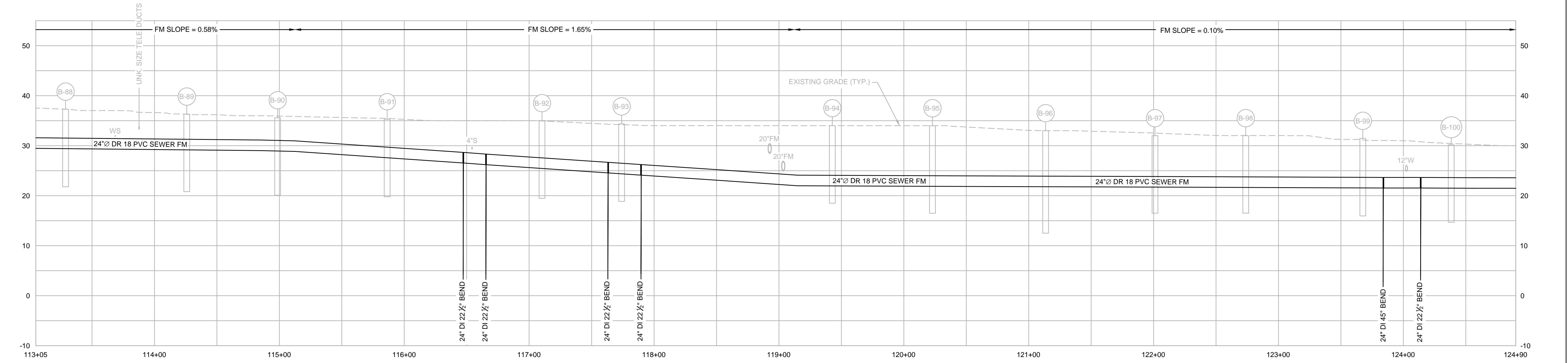
SHEET C-18

MATCH LINE

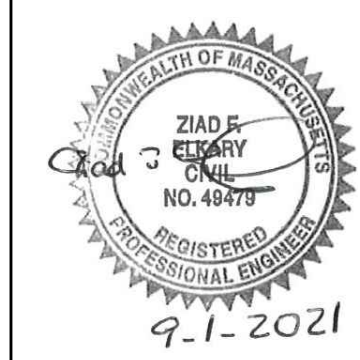
SHEET C-20



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

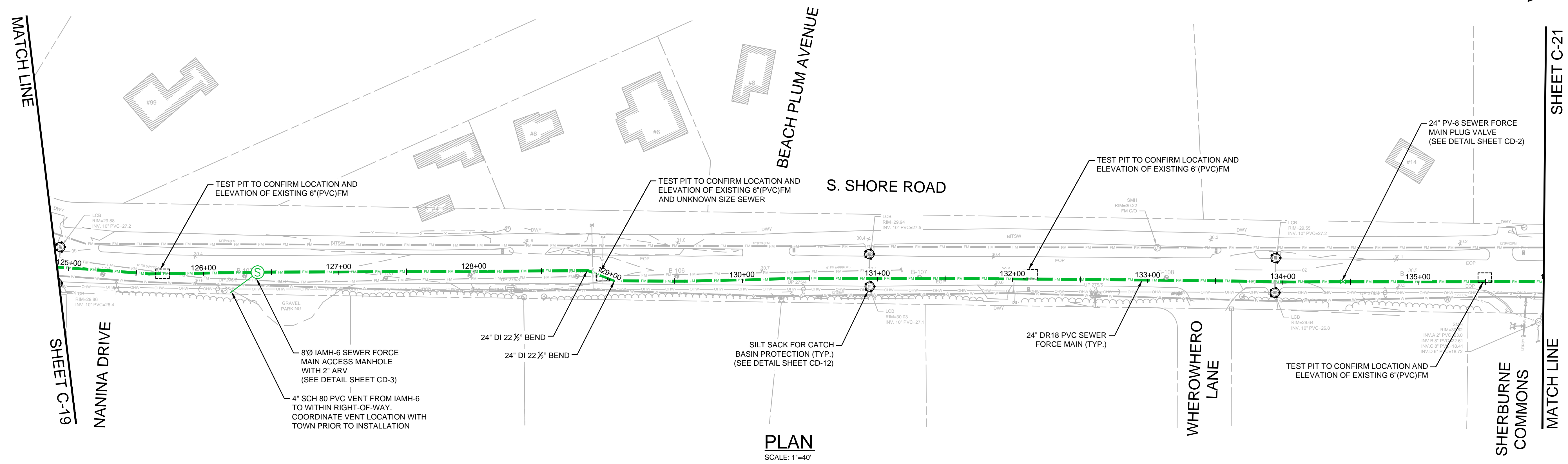
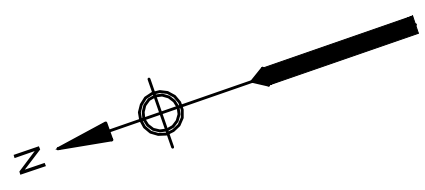
SURFSIDE ROAD
STA 113+05 TO STA 124+90

FOR CONSTRUCTION
Sheet No.

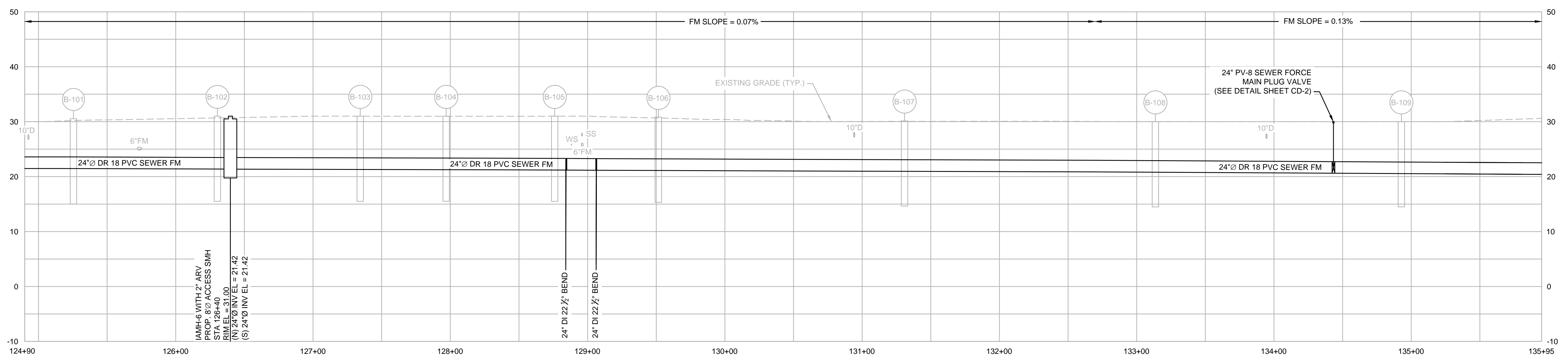
C-19

Drawing file: I:\Nantucket\360-2001 - Sea St PWS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 4:56pm

- NOTES:
- FOR EXISTING CONDITIONS PLAN, SEE SHEET C-6.
 - FOR SURFACE RESTORATION PLAN, SEE SHEET C-42.



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

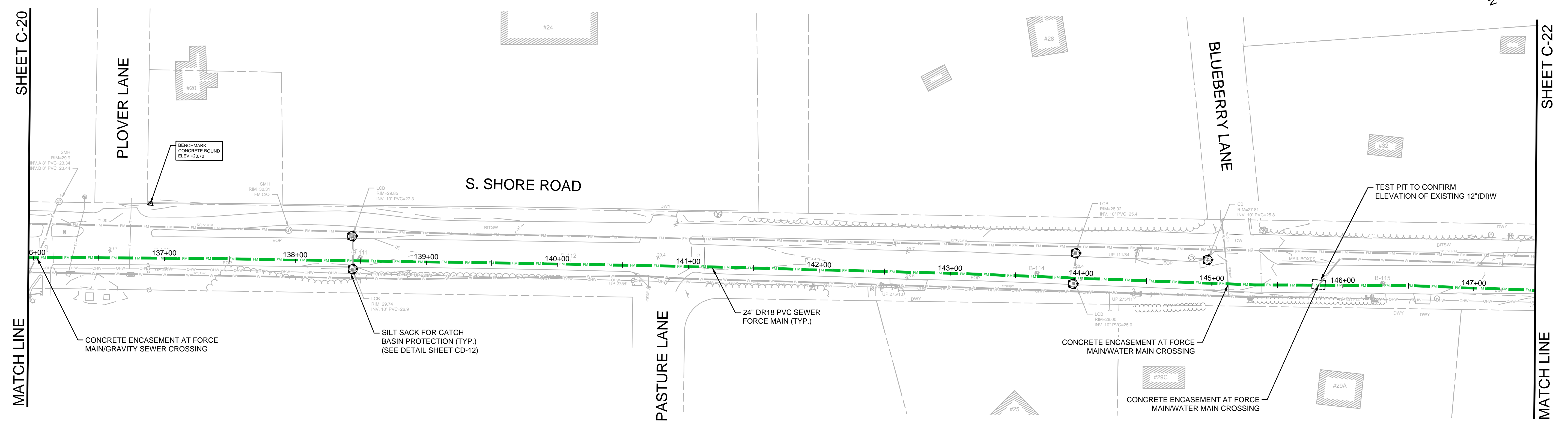
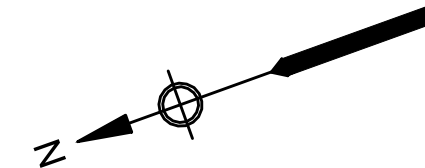
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

S. SHORE ROAD
STA 124+90 TO STA 135+95

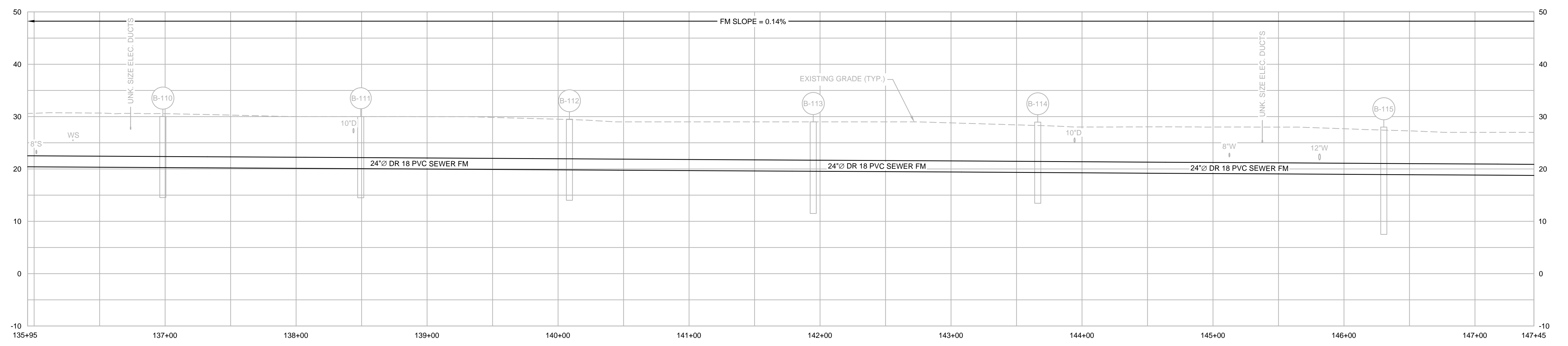
FOR CONSTRUCTION
Sheet No.

C-20

- NOTES:
- FOR EXISTING CONDITIONS PLAN, SEE SHEET C-7.
 - FOR SURFACE RESTORATION PLAN, SEE SHEET C-43.



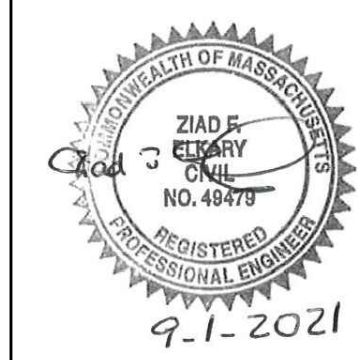
PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

S. SHORE ROAD
STA 135+95 TO STA 147+45

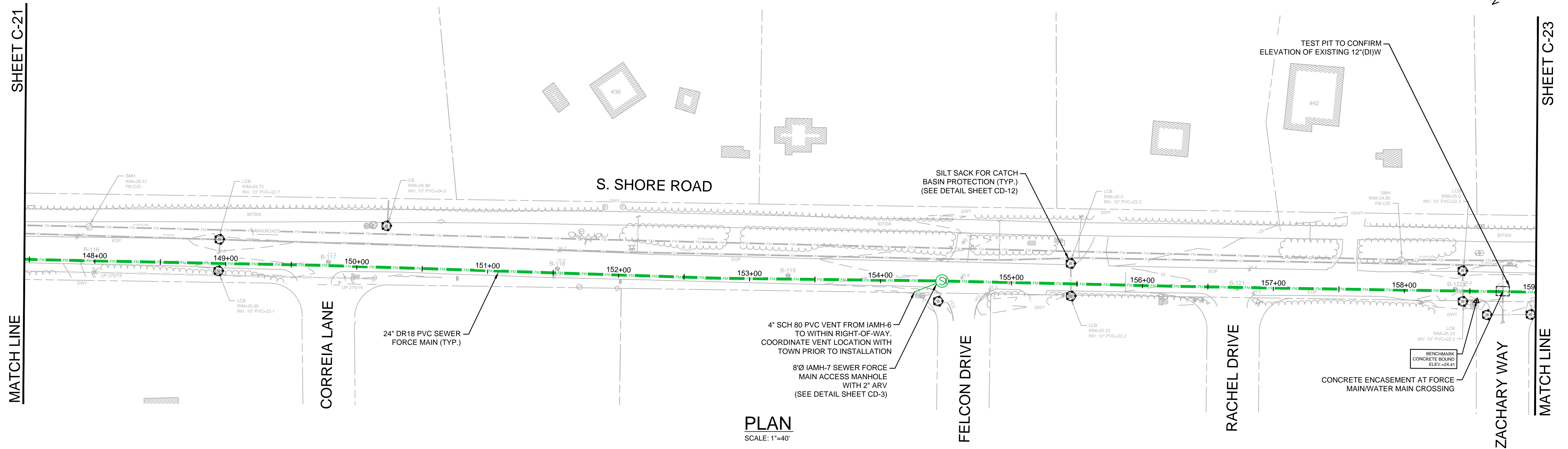
FOR CONSTRUCTION

Sheet No.

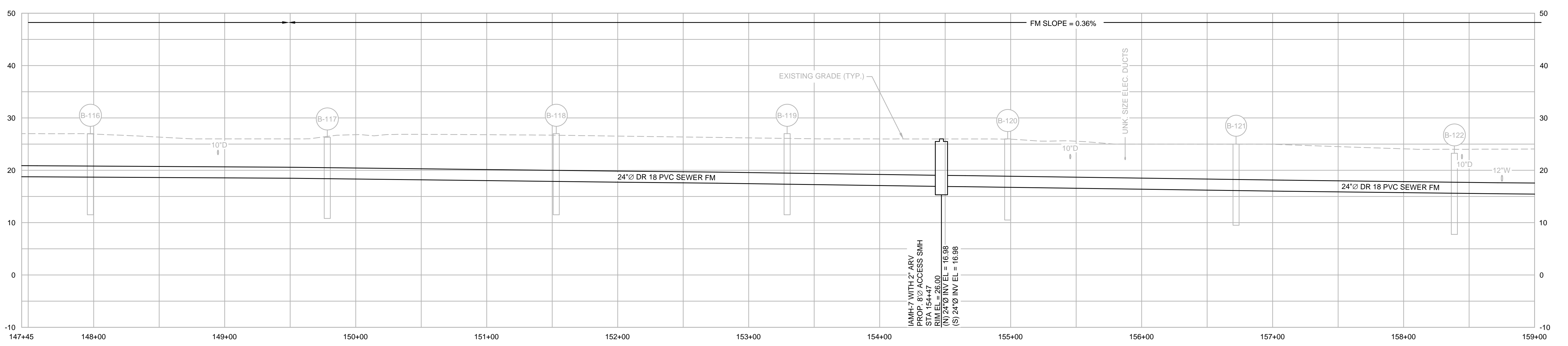
C-21

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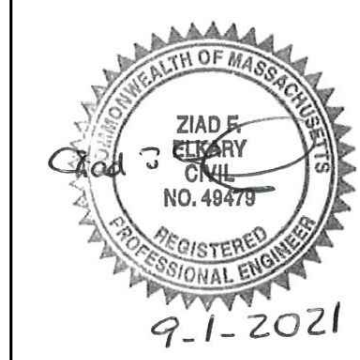
- NOTES:
- FOR EXISTING CONDITIONS PLAN, SEE SHEET C-7.
 - FOR SURFACE RESTORATION PLAN, SEE SHEET C-43.



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

S. SHORE ROAD
STA 147+45 TO STA 159+00

FOR CONSTRUCTION
Sheet No.

C-22

Drawing file: I:\Nantucket\360-2001 - Sea St PWS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 - 5:05pm

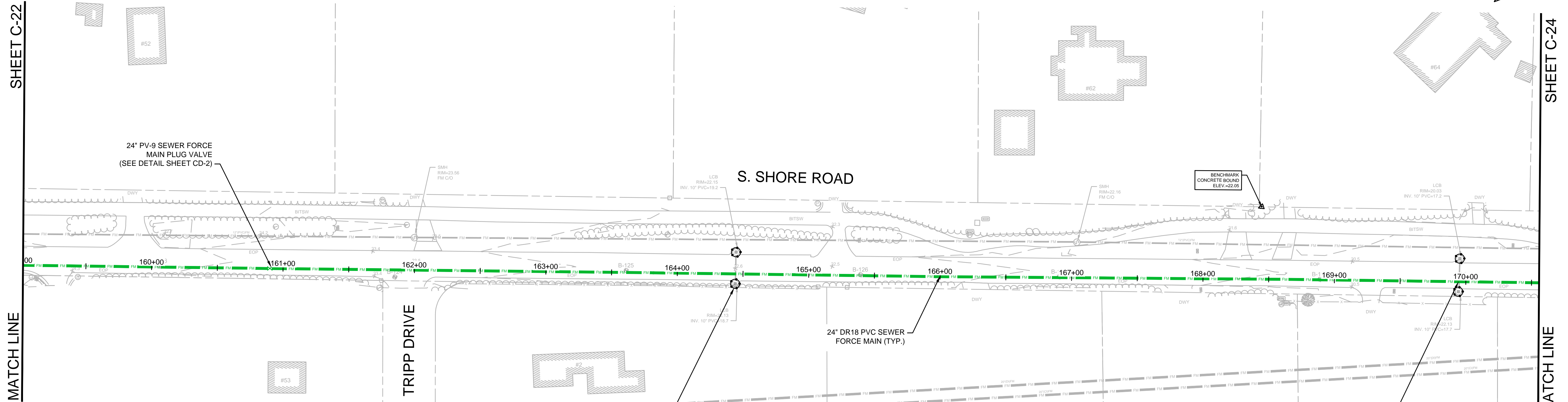
- NOTES:
- FOR EXISTING CONDITIONS PLAN, SEE SHEET C-8.
 - FOR SURFACE RESTORATION PLAN, SEE SHEET C-44.
 - ALL FORCE MAIN PIPES WITH LESS THAN 4 FEET OF COVER SHALL BE INSULATED.

SHEET C-22

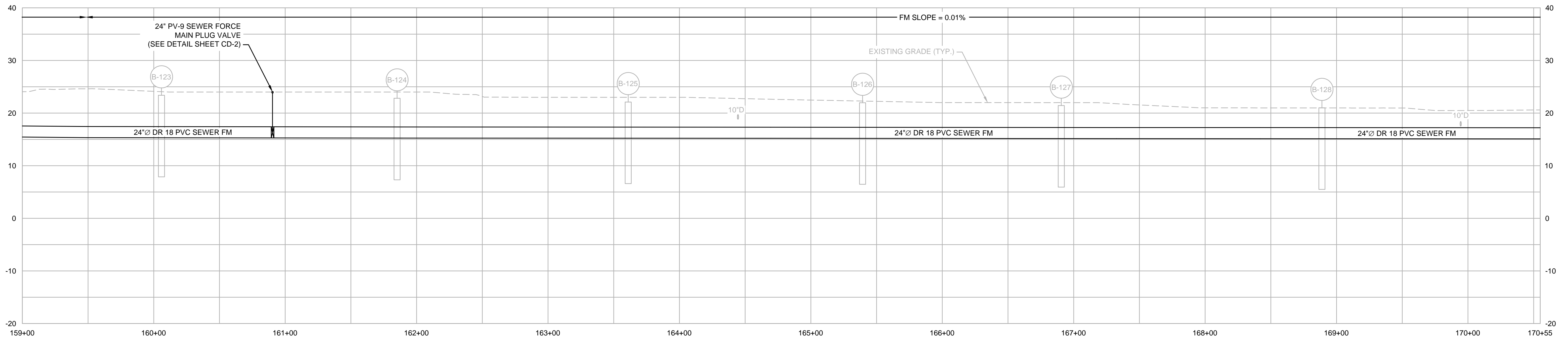
MATCH LINE

SHEET C-24

MATCH LINE



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

S. SHORE ROAD
STA 159+00 TO STA 170+55

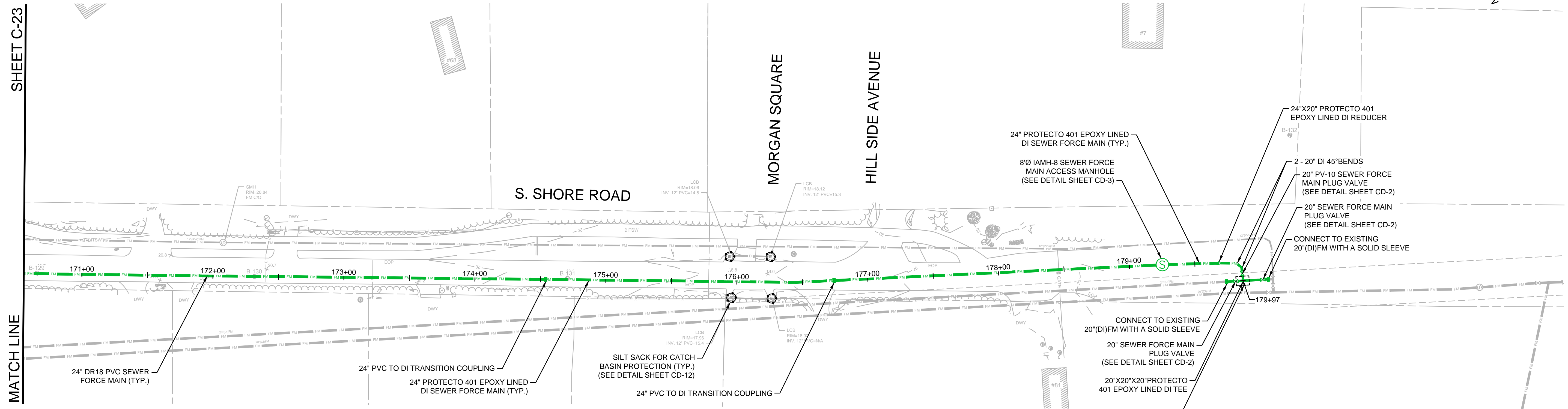
FOR CONSTRUCTION
Sheet No.

C-23

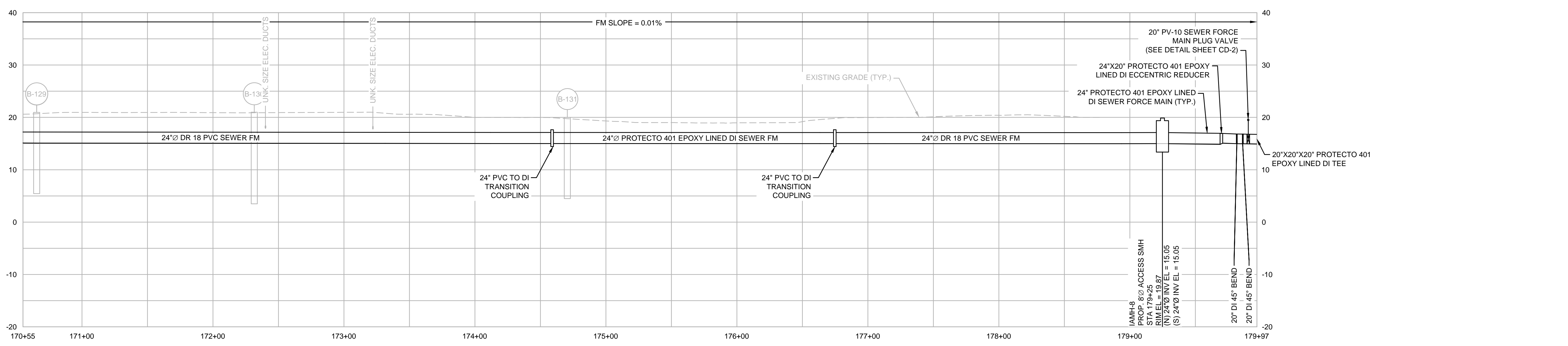
- NOTES:
- FOR EXISTING CONDITIONS PLAN, SEE SHEET C-8.
 - FOR SURFACE RESTORATION PLAN, SEE SHEET C-44.
 - ALL FORCE MAIN PIPES WITH LESS THAN 4 FEET OF COVER SHALL BE INSULATED.

SHEET C-23

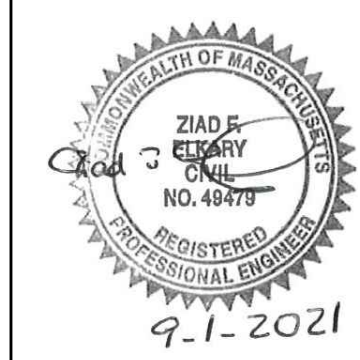
MATCH LINE



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

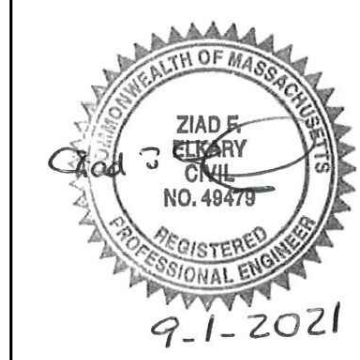
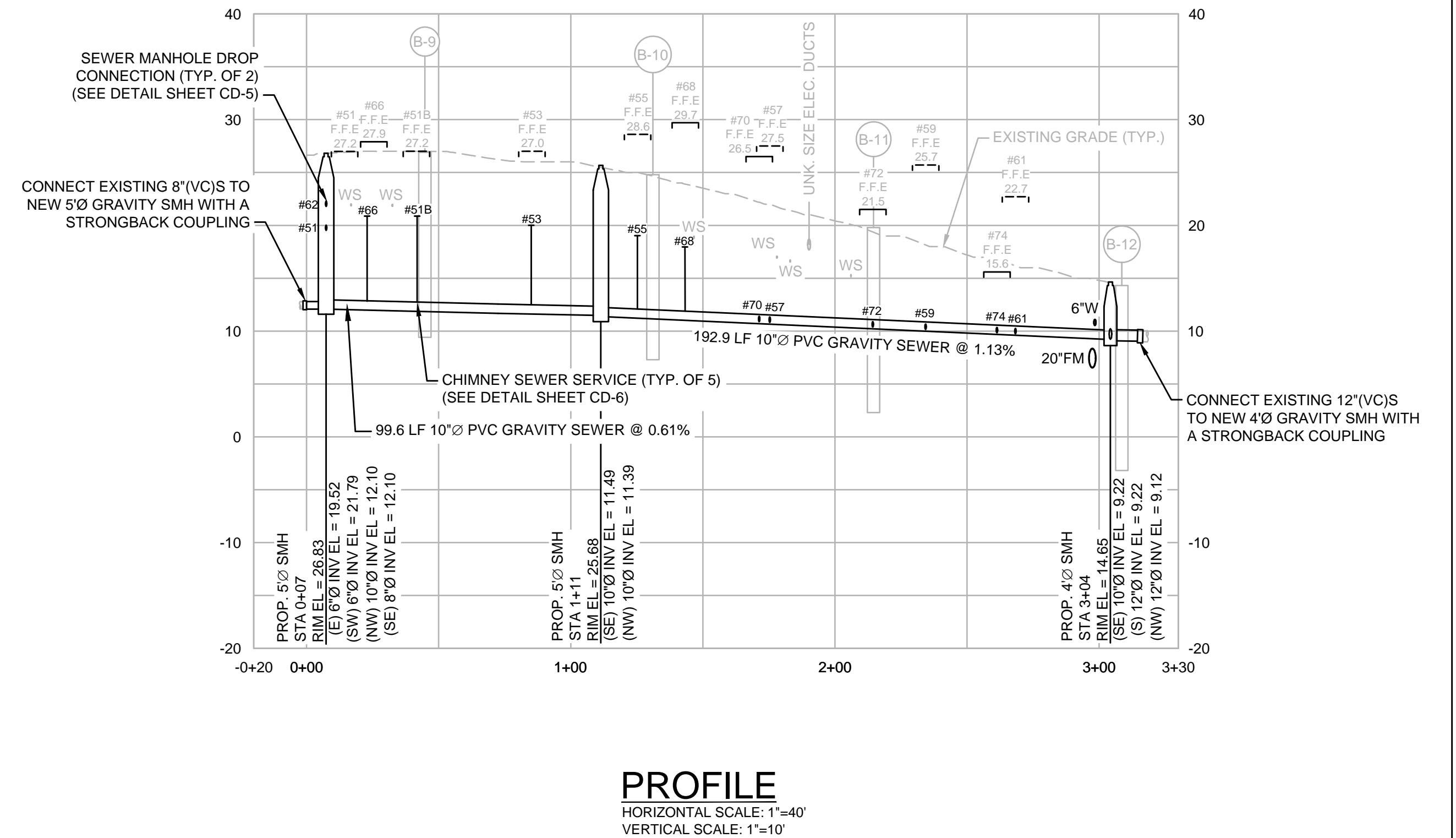
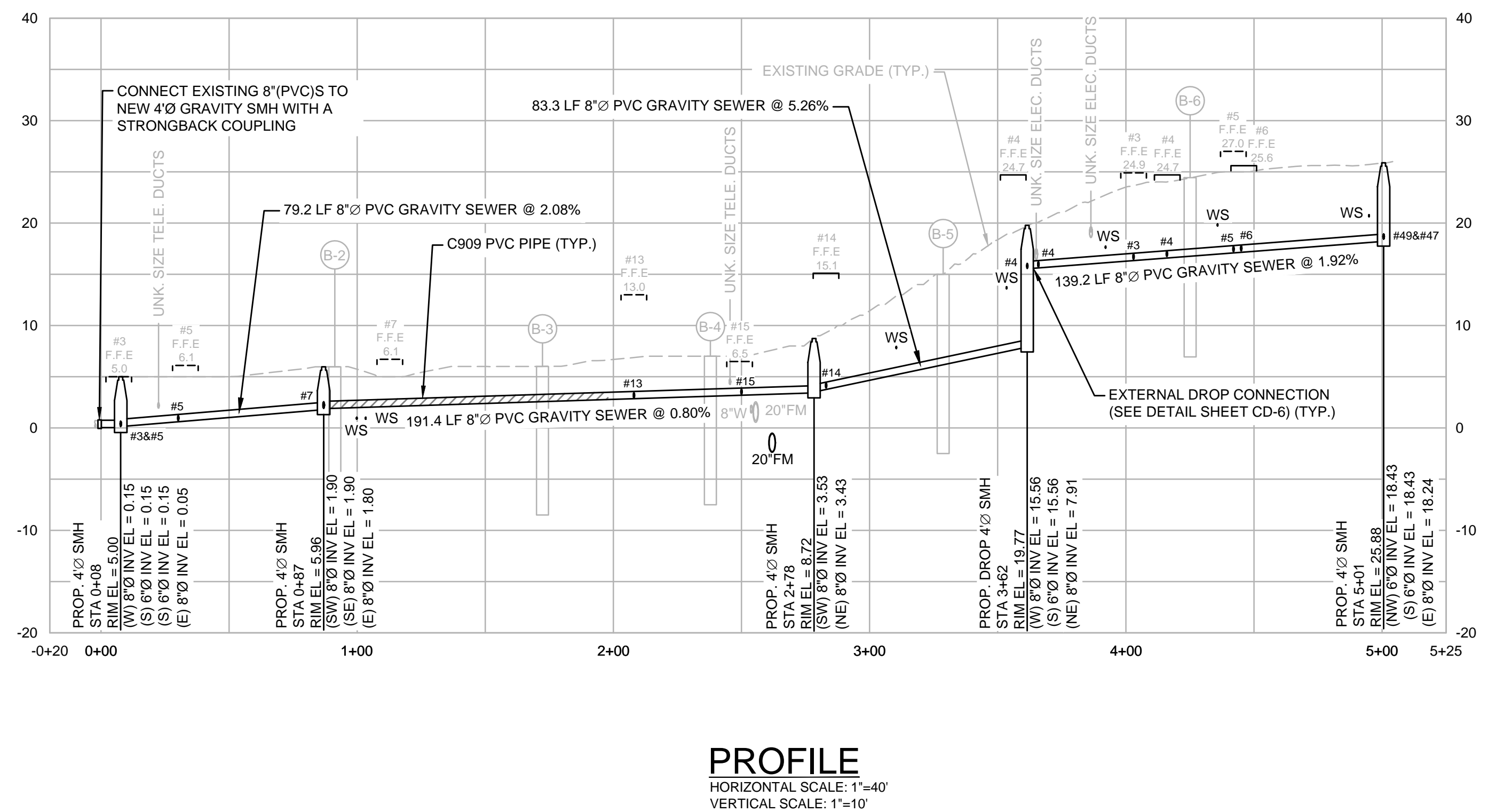
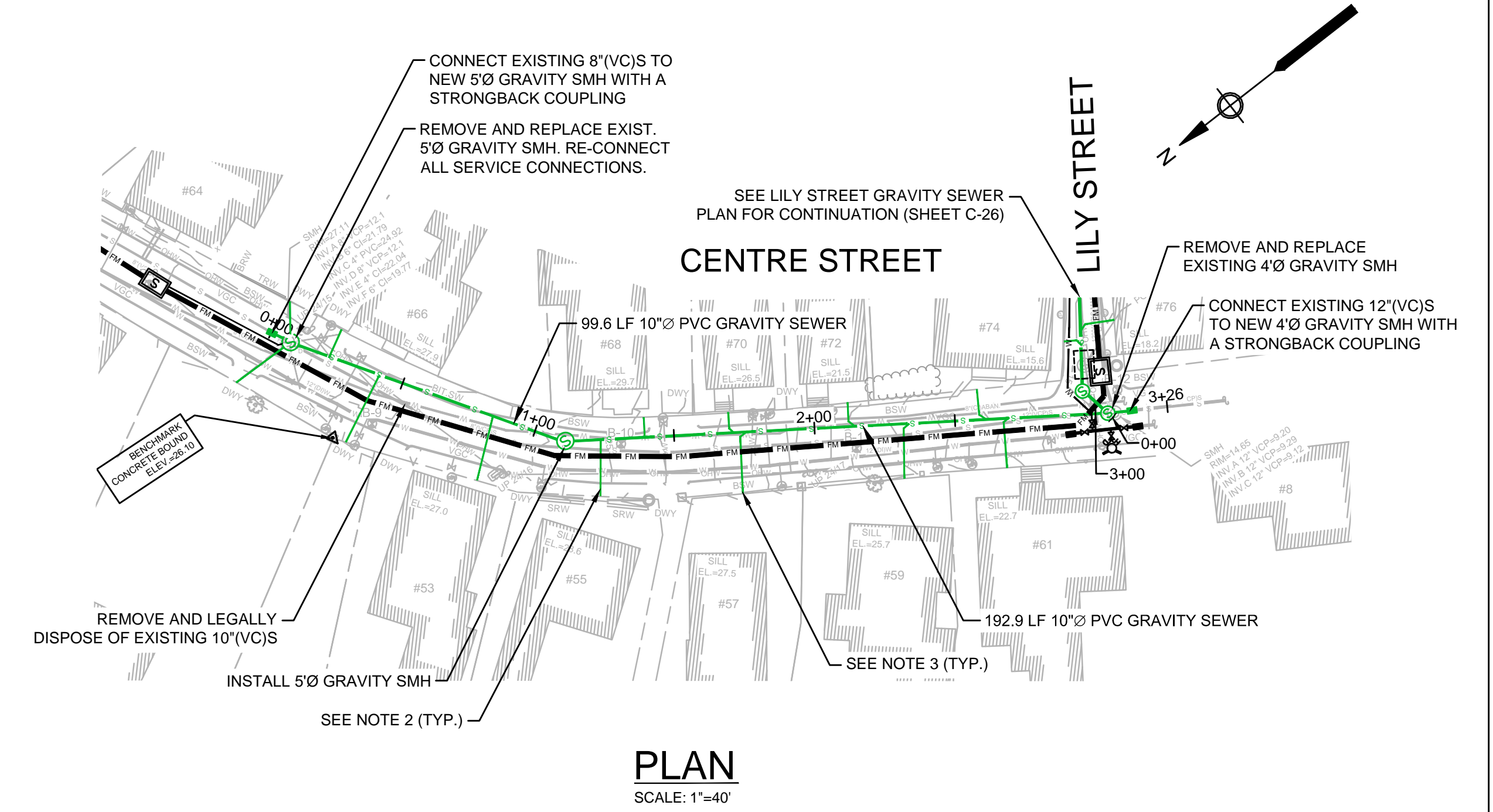
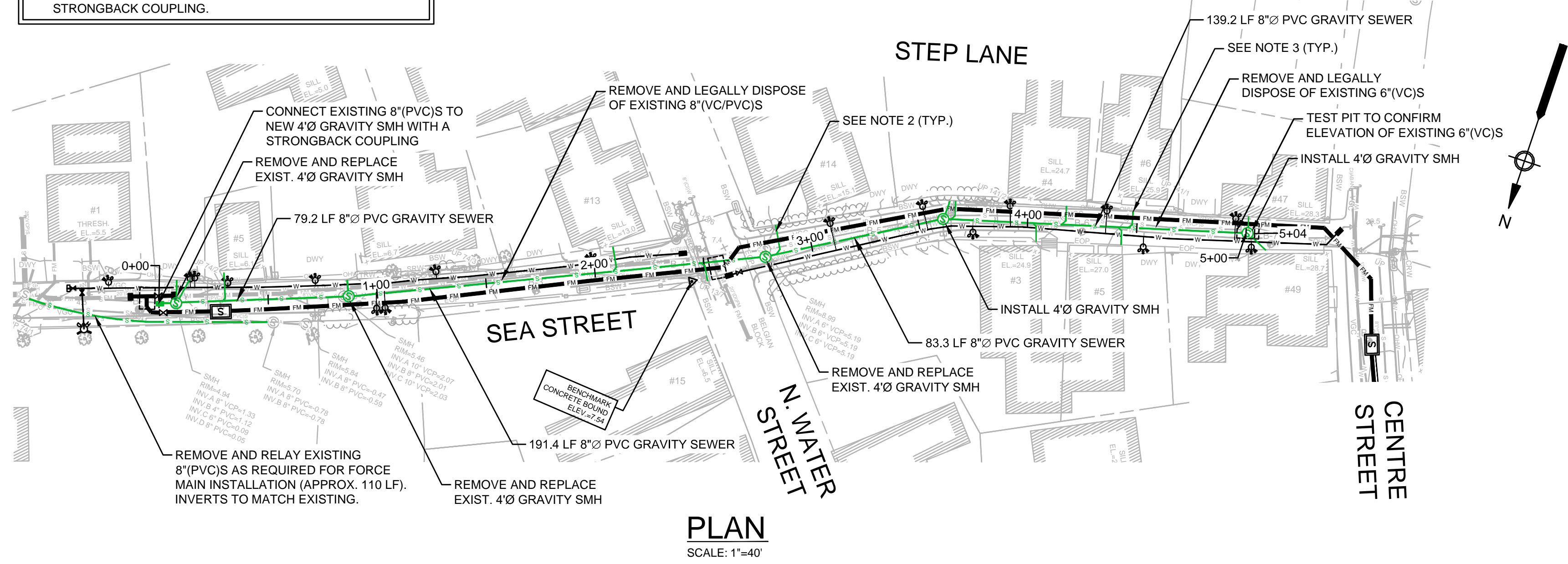
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

S. SHORE ROAD
STA 170+55 TO STA 179+97

FOR CONSTRUCTION
Sheet No.

C-24

- NOTES:
- ALL GRAVITY SEWER MAINS AND SERVICES WITH LESS THAN 4 FEET OF COVER SHALL BE INSULATED.
 - RESTORE ALL SIDEWALK AND CURBING TO ITS PRE-CONSTRUCTION CONDITION. MATERIALS TO MATCH EXISTING (TYP. FOR ALL CROSSINGS).
 - VERIFY LOCATION OF EXISTING SEWER SERVICE VIA CCTV. REPLACE EXISTING SEWER SERVICE WITH 6"Ø PVC TO THE PROPERTY LINE. INSTALL SEWER SERVICE CLEANOUT (TYP.)
 - GRAVITY SEWERS WITH LESS THAN 3 VERTICAL FEET OF COVER SHALL BE C909 PVC PIPE.
 - ALL PIPE TO PIPE CONNECTIONS SHALL BE MADE WITH A STRONGBACK COUPLING.



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

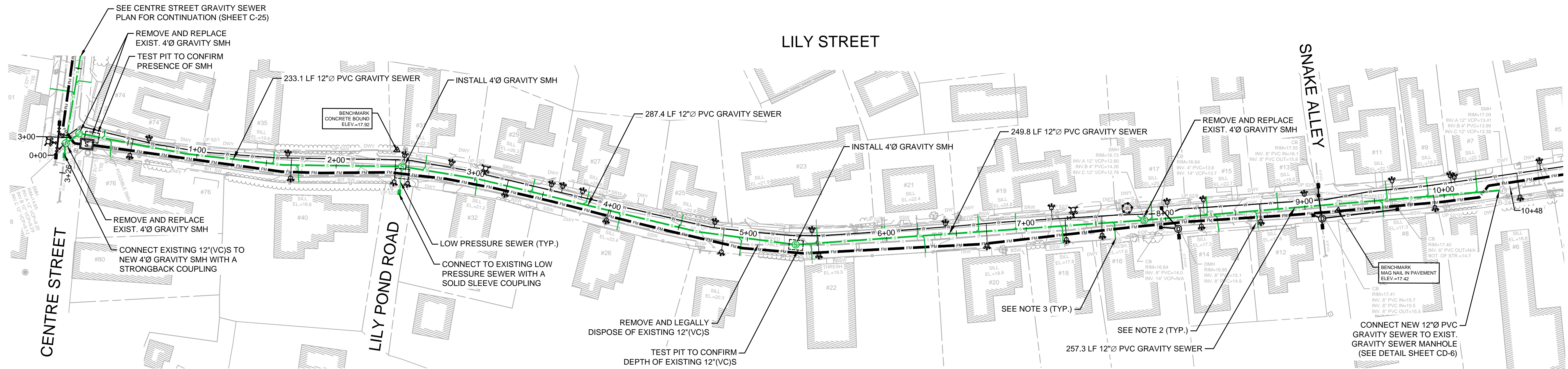
SEA STREET, STEP LANE, AND CENTRE STREET
GRAVITY SEWER REPLACEMENT

FOR CONSTRUCTION
Sheet No.

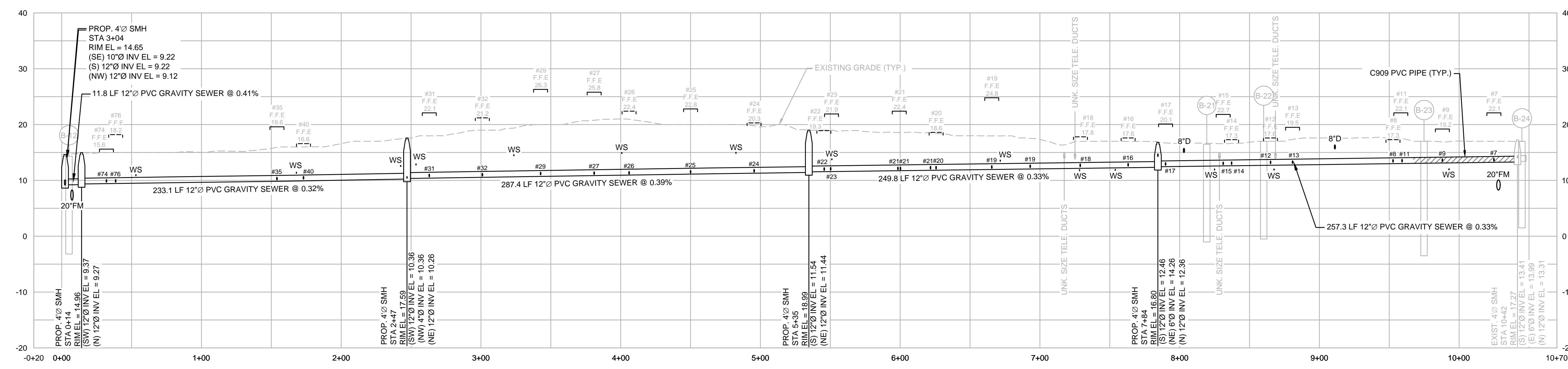
C-25

Drawing file: I:\Nantucket\360-2001 - Sea Str PWS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 5:30pm

- NOTES:
1. ALL GRAVITY SEWER MAINS AND SERVICES WITH LESS THAN 4 FEET OF COVER SHALL BE INSULATED.
 2. RESTORE ALL SIDEWALK AND CURBING TO ITS PRE-CONSTRUCTION CONDITION. MATERIALS TO MATCH EXISTING (TYP. FOR ALL CROSSINGS).
 3. VERIFY LOCATION OF EXISTING SEWER SERVICE VIA CCTV. REPLACE EXISTING SEWER SERVICE WITH 6"Ø PVC TO THE PROPERTY LINE. INSTALL SEWER SERVICE CLEANOUT (TYP.)
 4. GRAVITY SEWERS WITH LESS THAN 3 VERTICAL FEET OF COVER SHALL BE C909 PVC PIPE.
 5. ALL PIPE TO PIPE CONNECTIONS SHALL BE MADE WITH A STRONGBACK COUPLING.



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

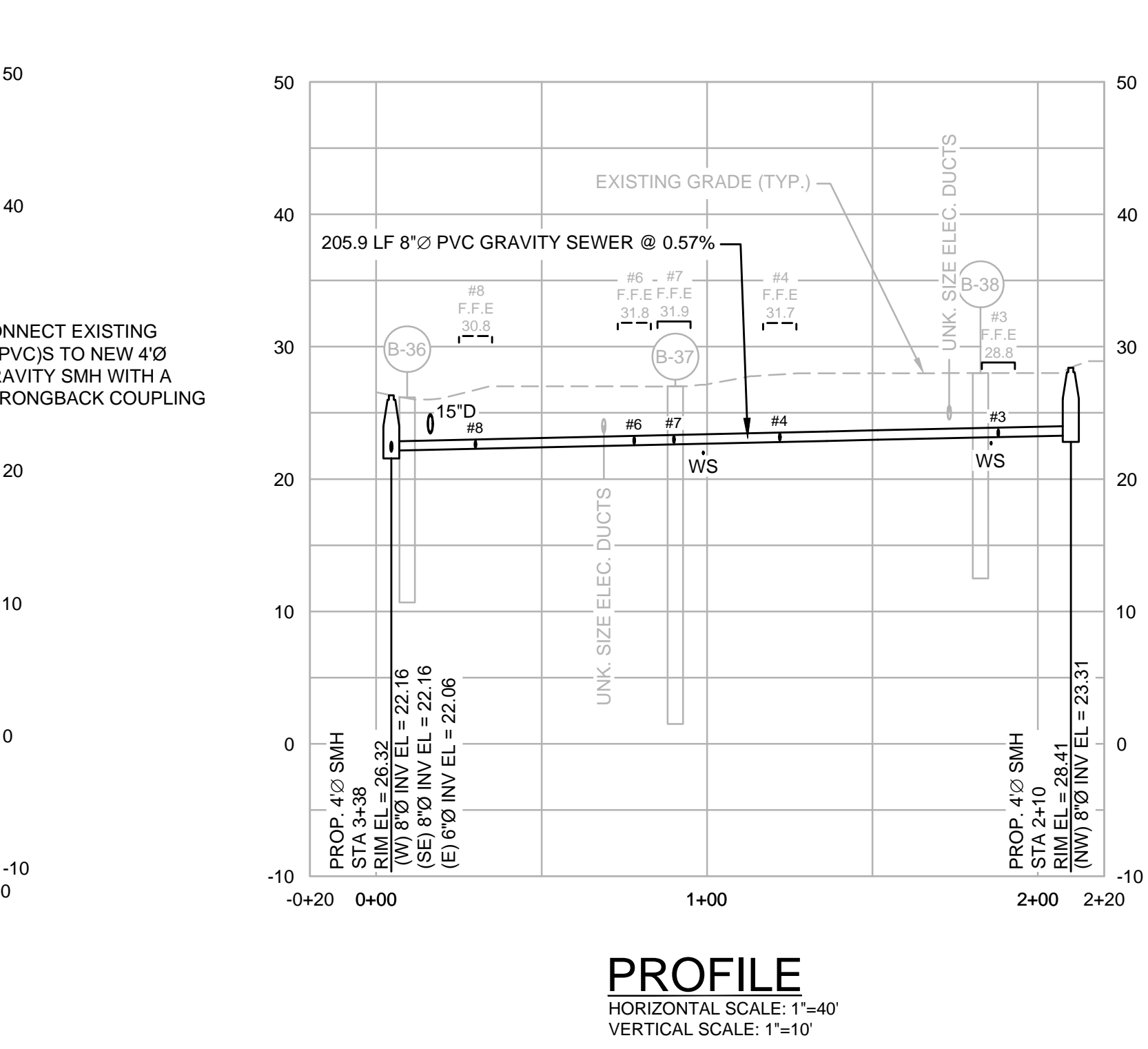
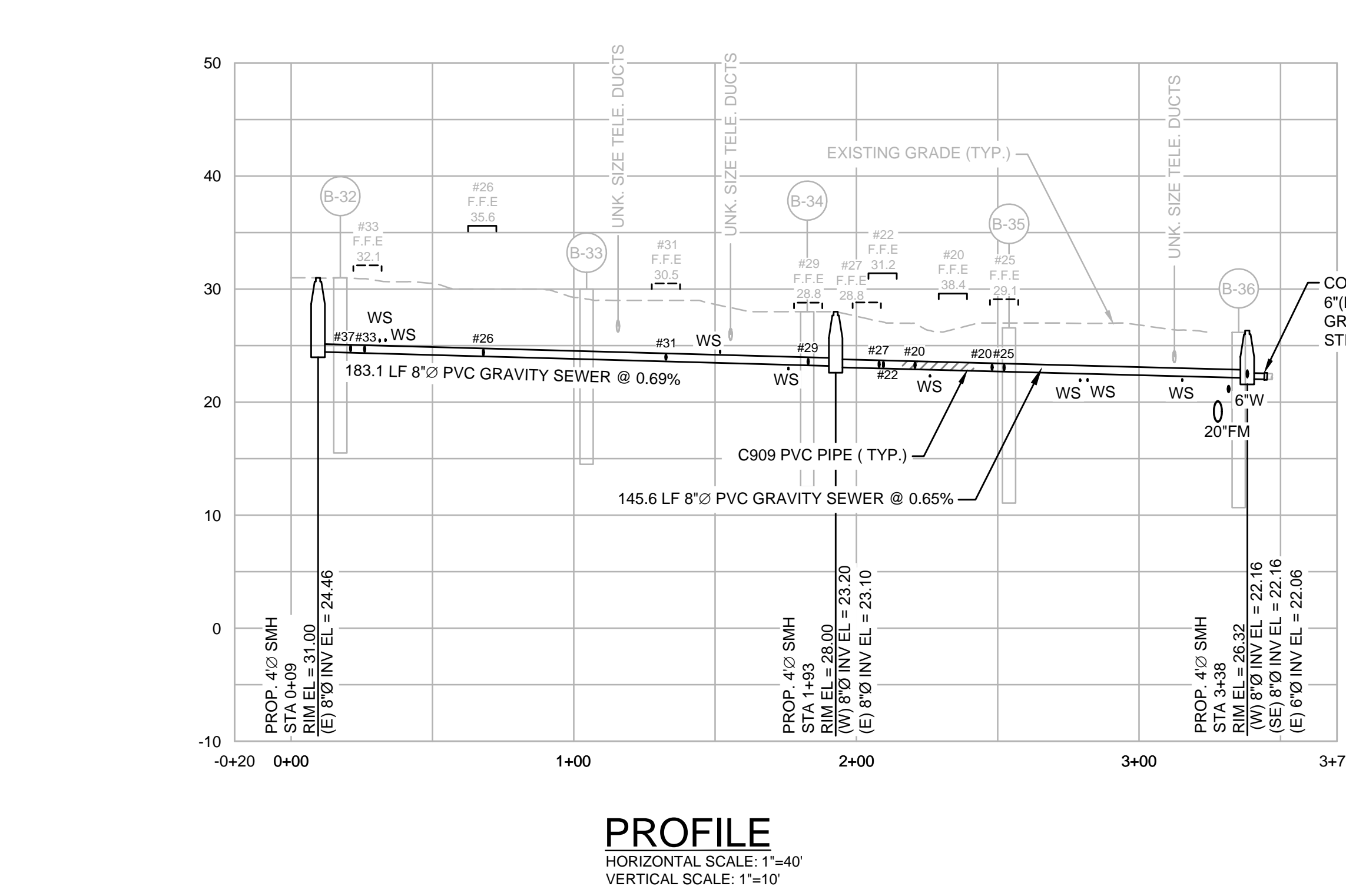
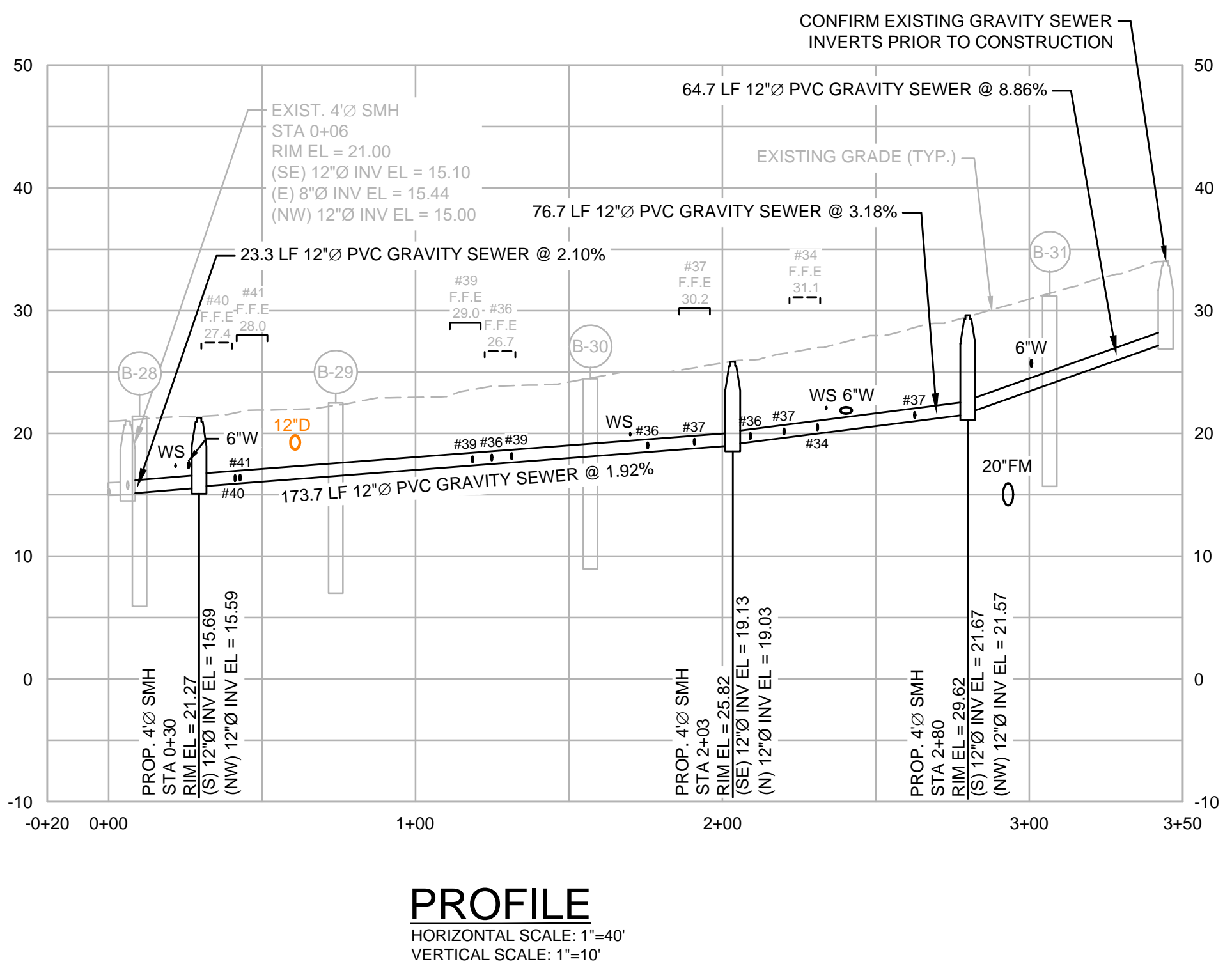
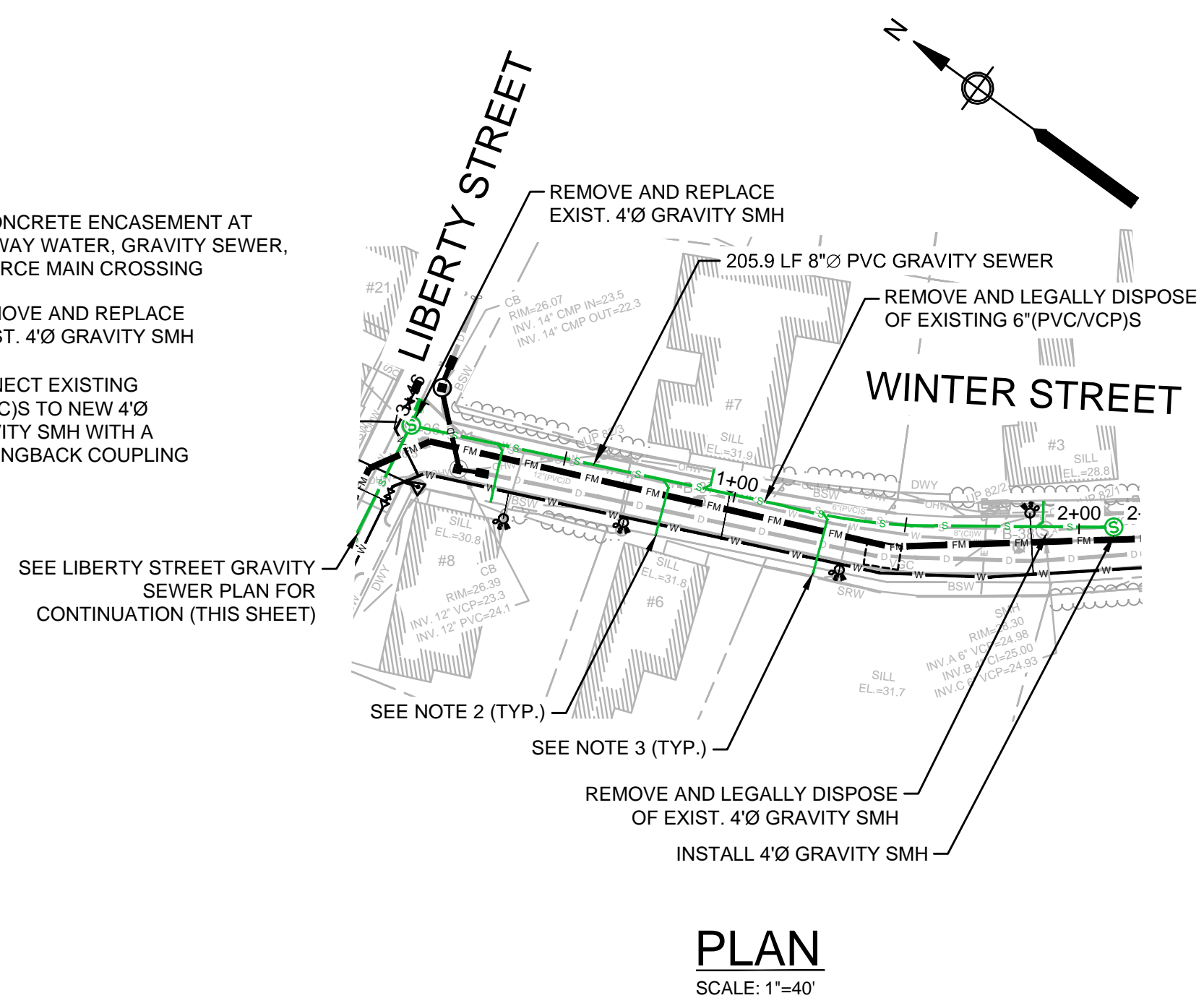
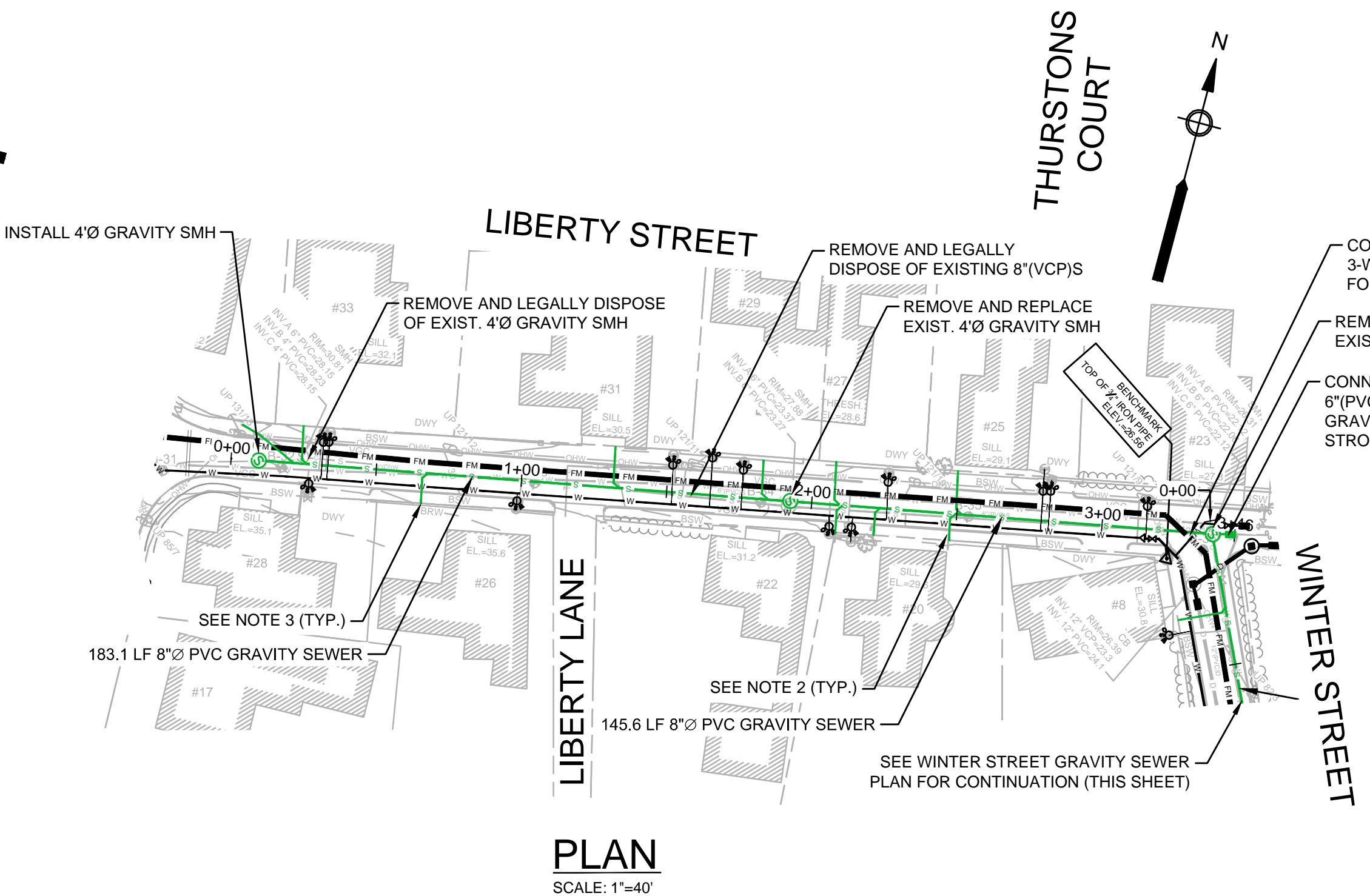
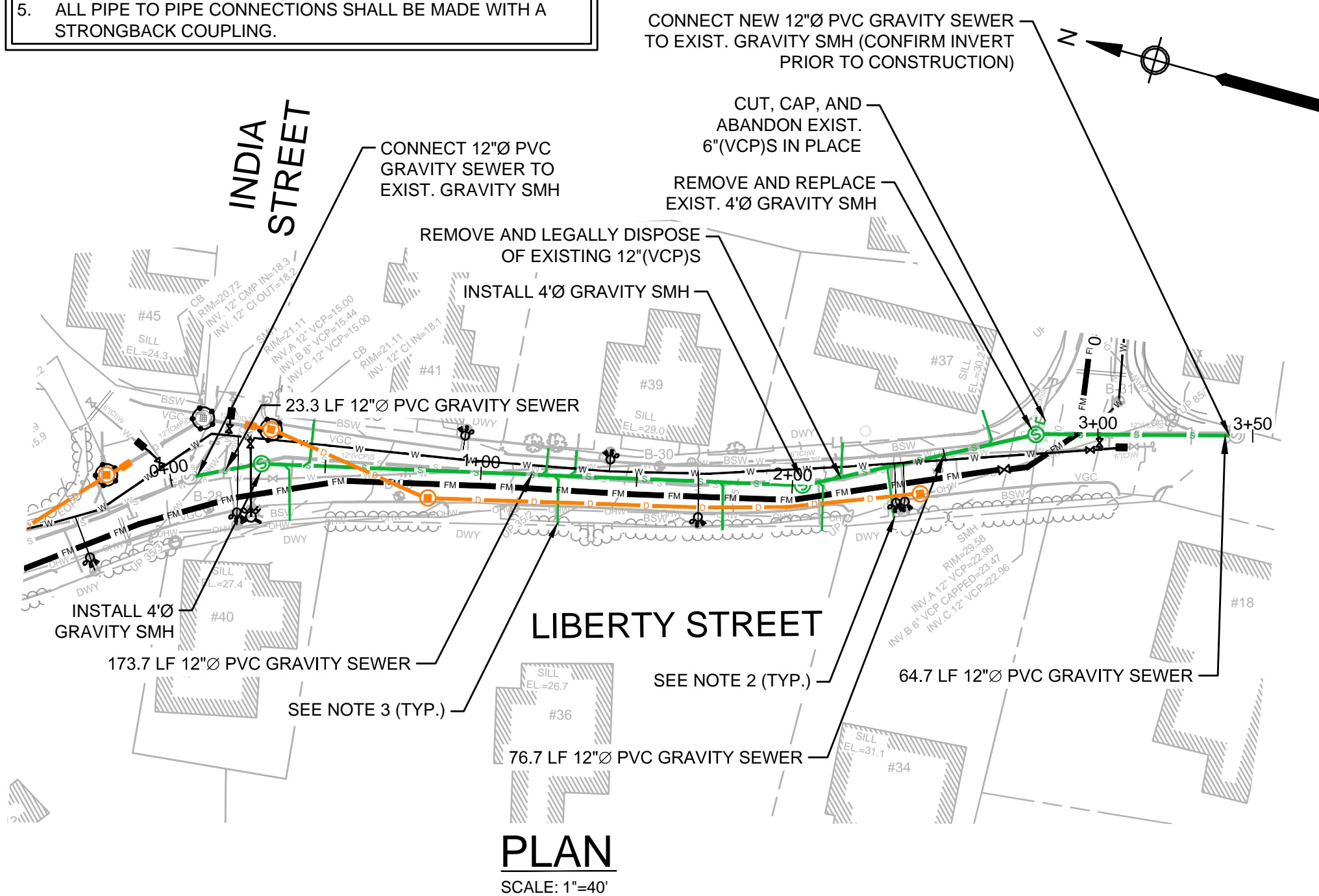
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

LILY STREET
GRAVITY SEWER REPLACEMENT

FOR CONSTRUCTION
Sheet No.

C-26

- NOTES:
1. ALL GRAVITY SEWER MAINS AND SERVICES WITH LESS THAN 4 FEET OF COVER SHALL BE INSULATED.
 2. RESTORE ALL SIDEWALK AND CURBING TO ITS PRE-CONSTRUCTION CONDITION. MATERIALS TO MATCH EXISTING (TYP. FOR ALL CROSSINGS).
 3. VERIFY LOCATION OF EXISTING SEWER SERVICE VIA CCTV. REPLACE EXISTING SEWER SERVICE WITH 6"Ø PVC TO THE PROPERTY LINE. INSTALL SEWER SERVICE CLEANOUT (TYP.)
 4. GRAVITY SEWERS WITH LESS THAN 3 VERTICAL FEET OF COVER SHALL BE C909 PVC PIPE.
 5. ALL PIPE TO PIPE CONNECTIONS SHALL BE MADE WITH A STRONGBACK COUPLING.



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

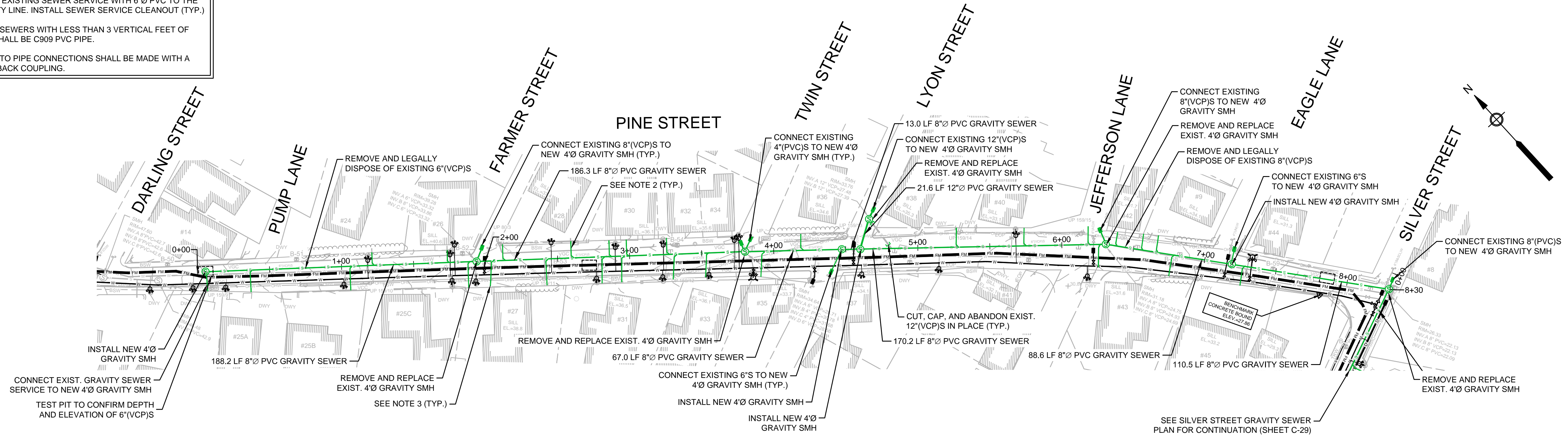
LIBERTY STREET AND WINTER STREET
GRAVITY SEWER REPLACEMENT

FOR CONSTRUCTION
Sheet No.

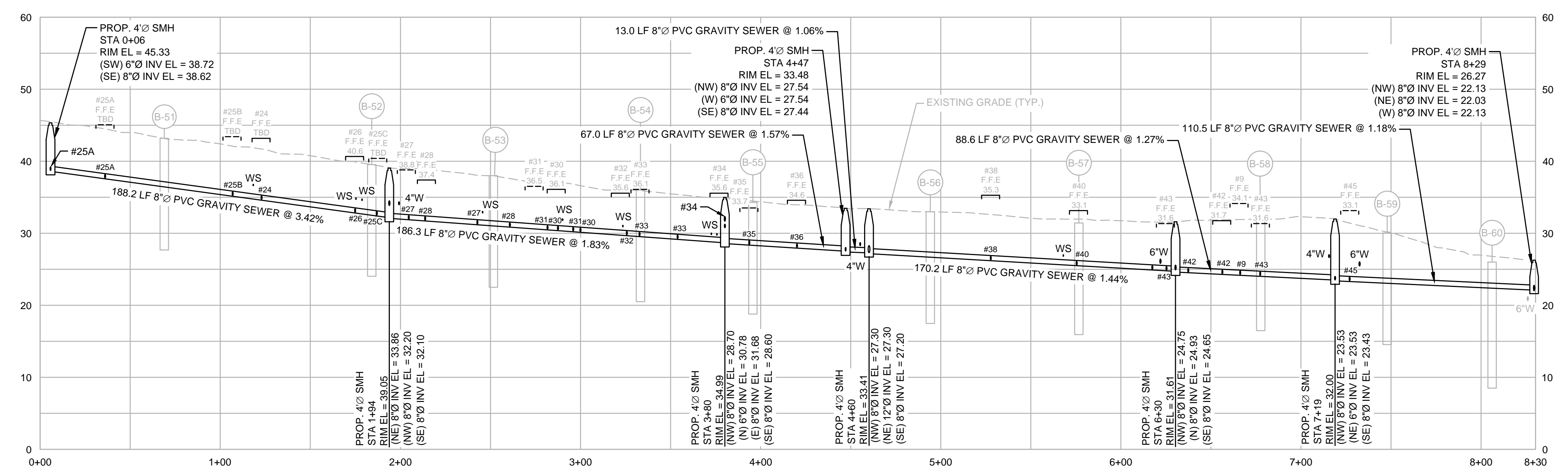
C-27

Drawing file: I:\Nantucket\360-2001 - Sea St PWS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 5:45pm

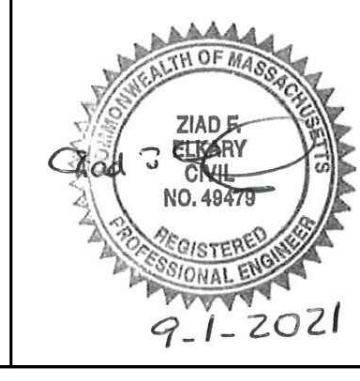
- NOTES:
1. ALL GRAVITY SEWER MAINS AND SERVICES WITH LESS THAN 4 FEET OF COVER SHALL BE INSULATED.
 2. RESTORE ALL SIDEWALK AND CURBING TO ITS PRE-CONSTRUCTION CONDITION. MATERIALS TO MATCH EXISTING (TYP. FOR ALL CROSSINGS).
 3. VERIFY LOCATION OF EXISTING SEWER SERVICE VIA CCTV. REPLACE EXISTING SEWER SERVICE WITH 6" PVC TO THE PROPERTY LINE. INSTALL SEWER SERVICE CLEANOUT (TYP.)
 4. GRAVITY SEWERS WITH LESS THAN 3 VERTICAL FEET OF COVER SHALL BE C909 PVC PIPE.
 5. ALL PIPE TO PIPE CONNECTIONS SHALL BE MADE WITH A STRONGBACK COUPLING.



PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

**PINE STREET
GRAVITY SEWER REPLACEMENT**

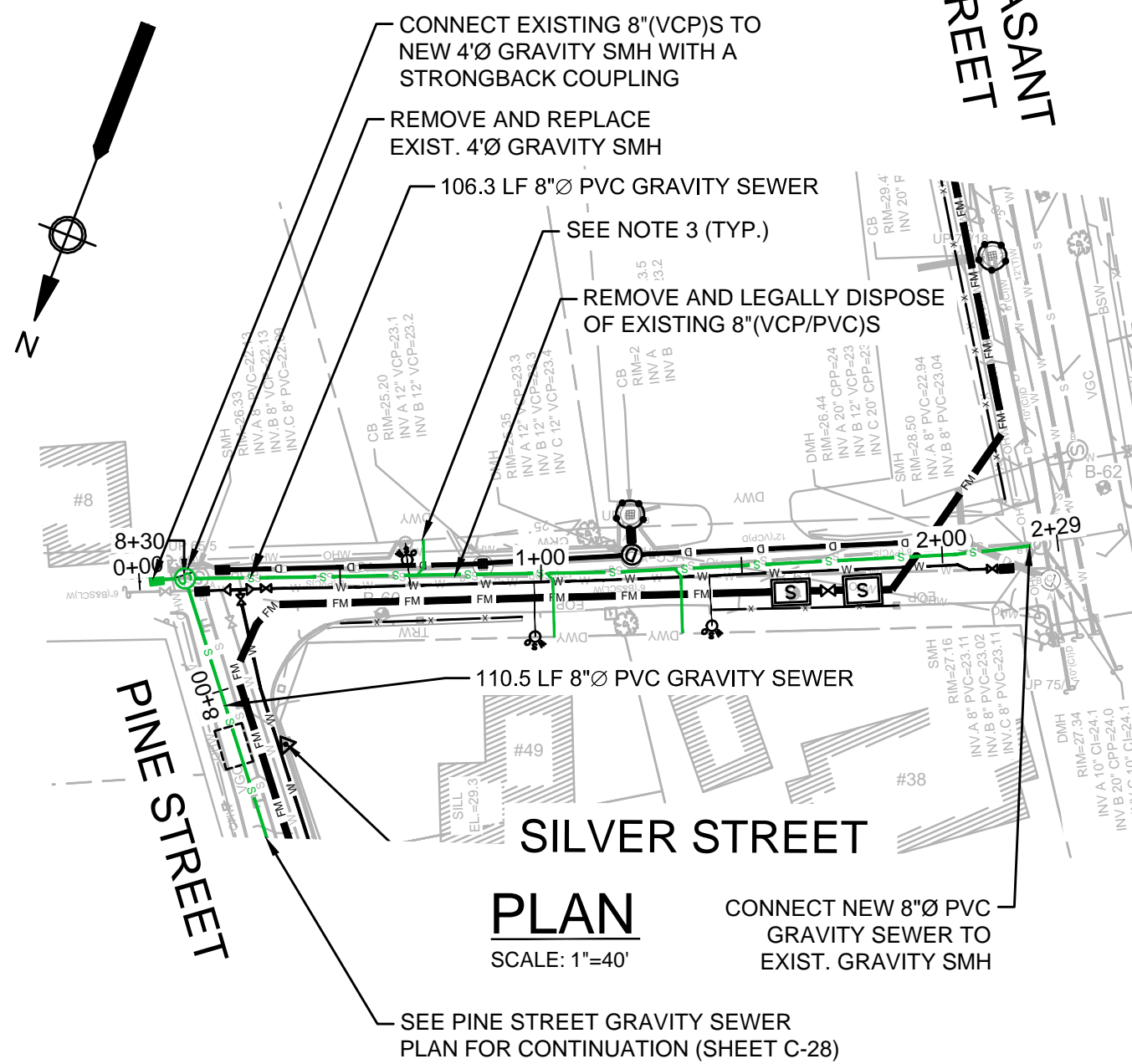
FOR CONSTRUCTION

Sheet No.

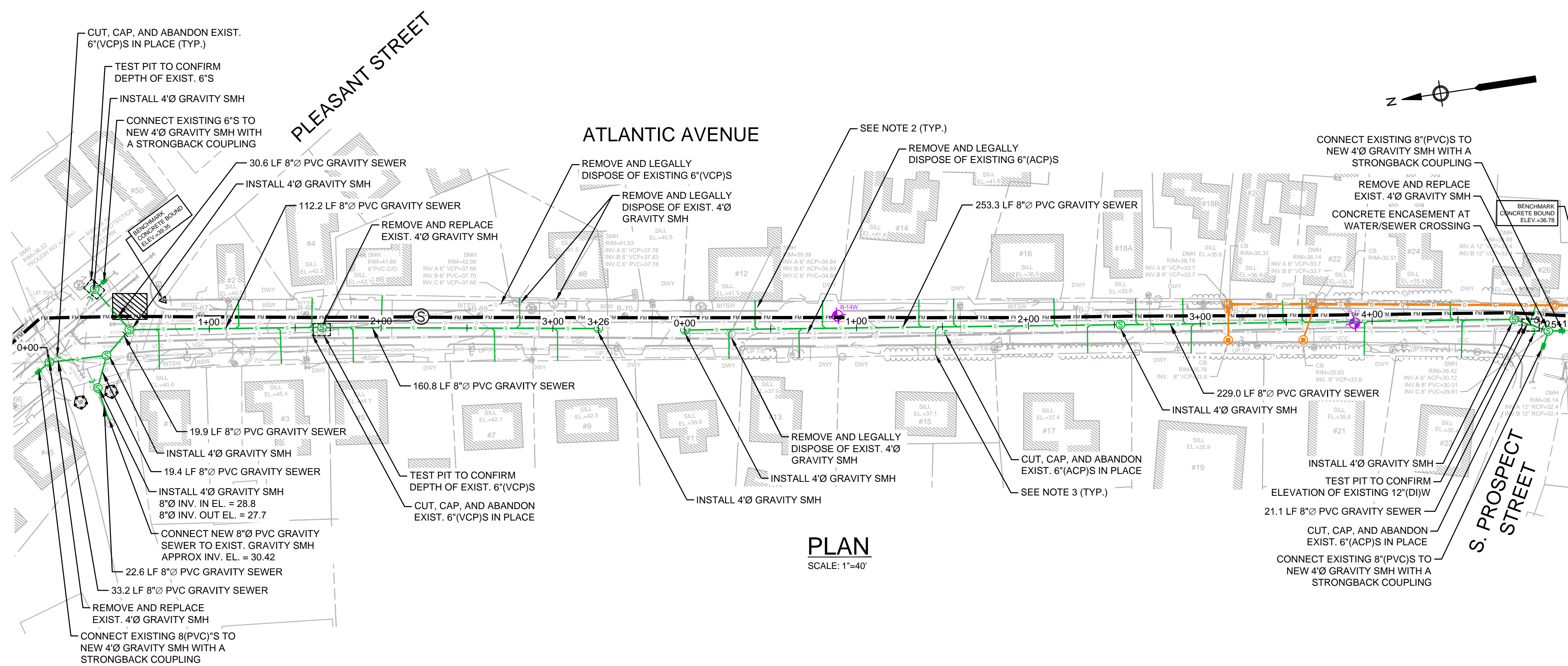
C-28

Drawing File: I:\Nantucket\360-2001 - Sea St Pump Station Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 - 5:15 pm

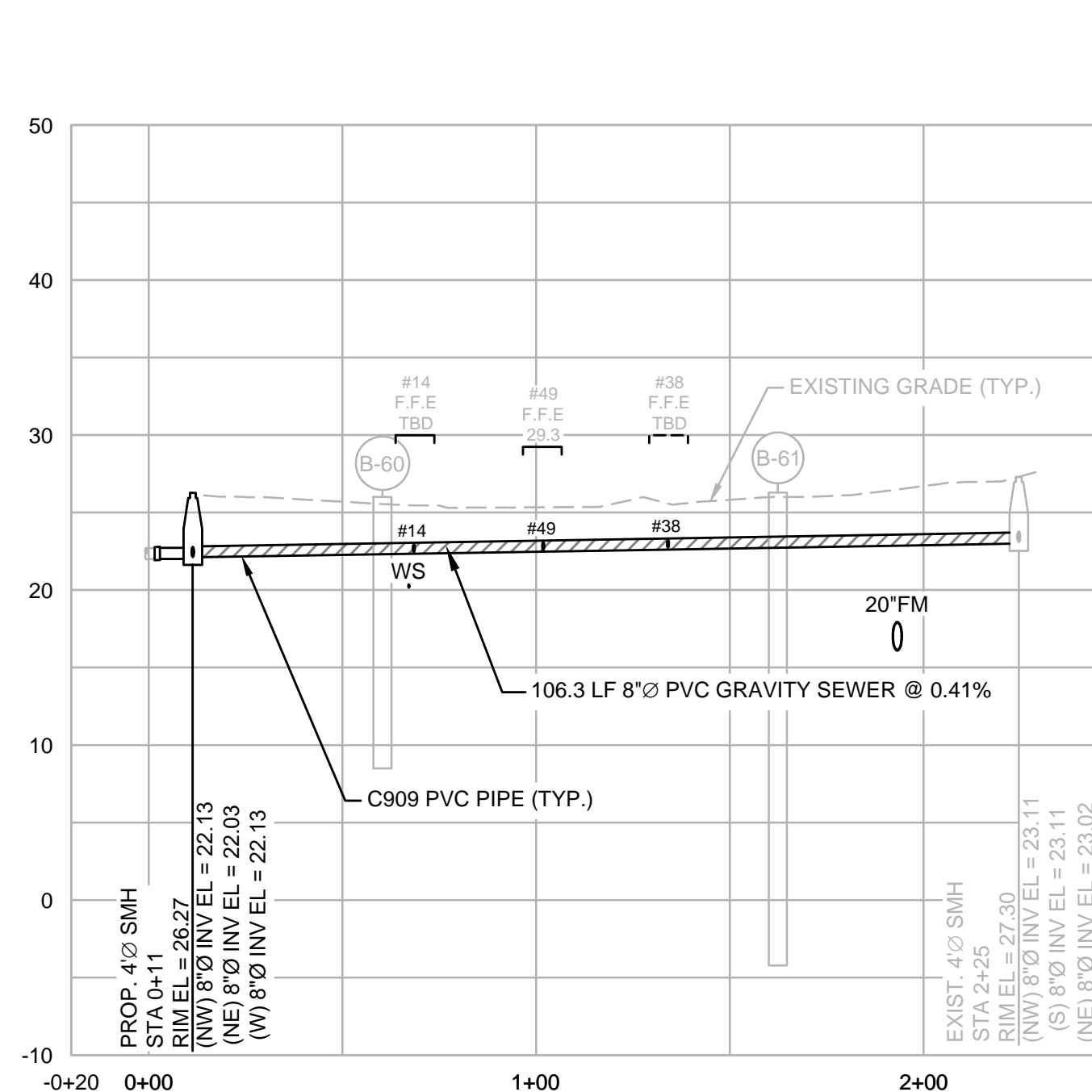
- NOTES:
1. ALL GRAVITY SEWER MAINS AND SERVICES WITH LESS THAN 4 FEET OF COVER SHALL BE INSULATED.
 2. RESTORE ALL SIDEWALK AND CURBING TO ITS PRE-CONSTRUCTION CONDITION. MATERIALS TO MATCH EXISTING (TYP. FOR ALL CROSSINGS).
 3. VERIFY LOCATION OF EXISTING SEWER SERVICE VIA CCTV. REPLACE EXISTING SEWER SERVICE WITH 6"Ø PVC TO THE PROPERTY LINE. INSTALL SEWER SERVICE CLEANOUT (TYP.)
 4. GRAVITY SEWERS WITH LESS THAN 3 VERTICAL FEET OF COVER SHALL BE C909 PVC PIPE.
 5. ALL PIPE TO PIPE CONNECTIONS SHALL BE MADE WITH A STRONGBACK COUPLING.



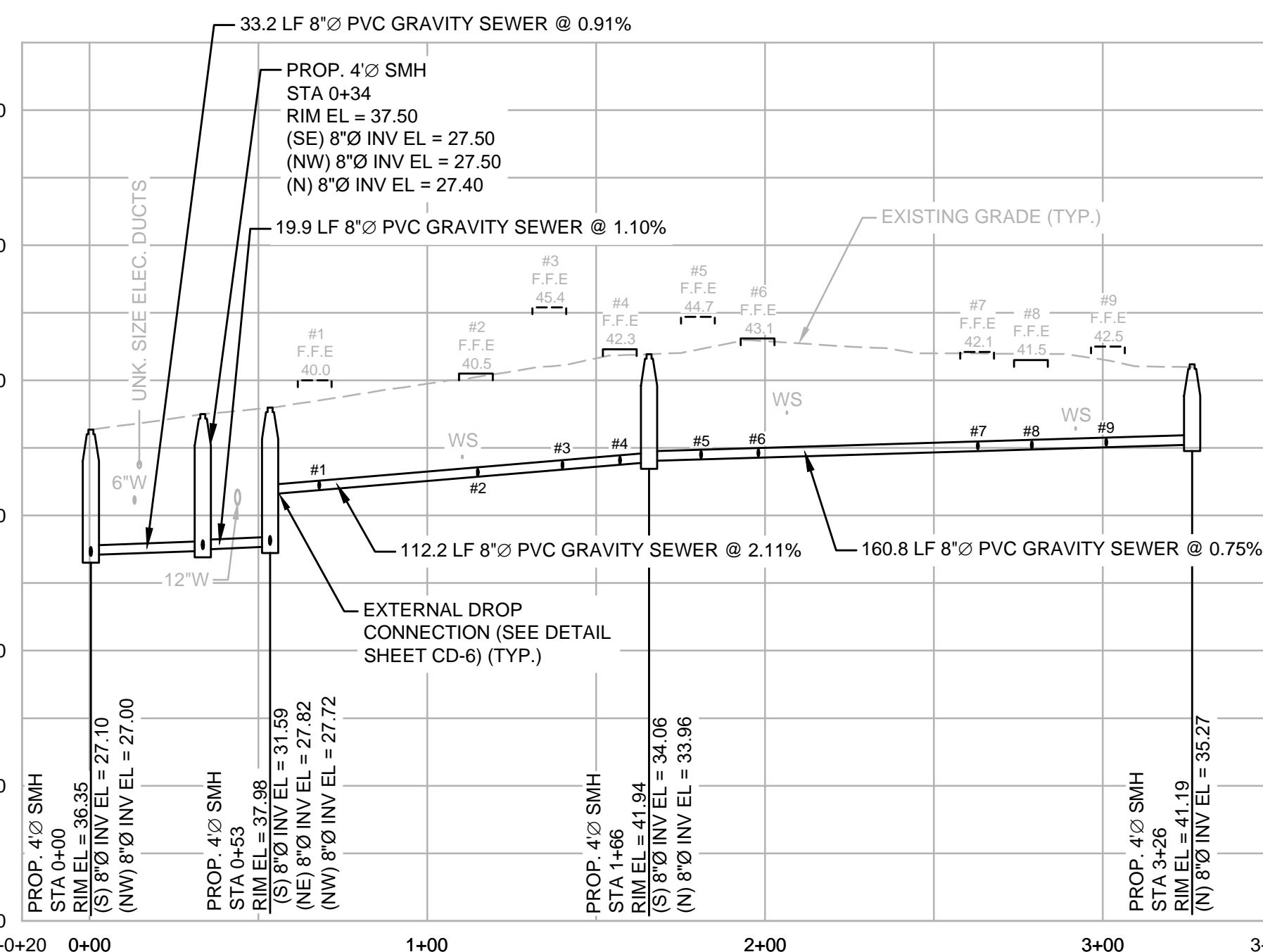
PLAN
SCALE: 1"=40'



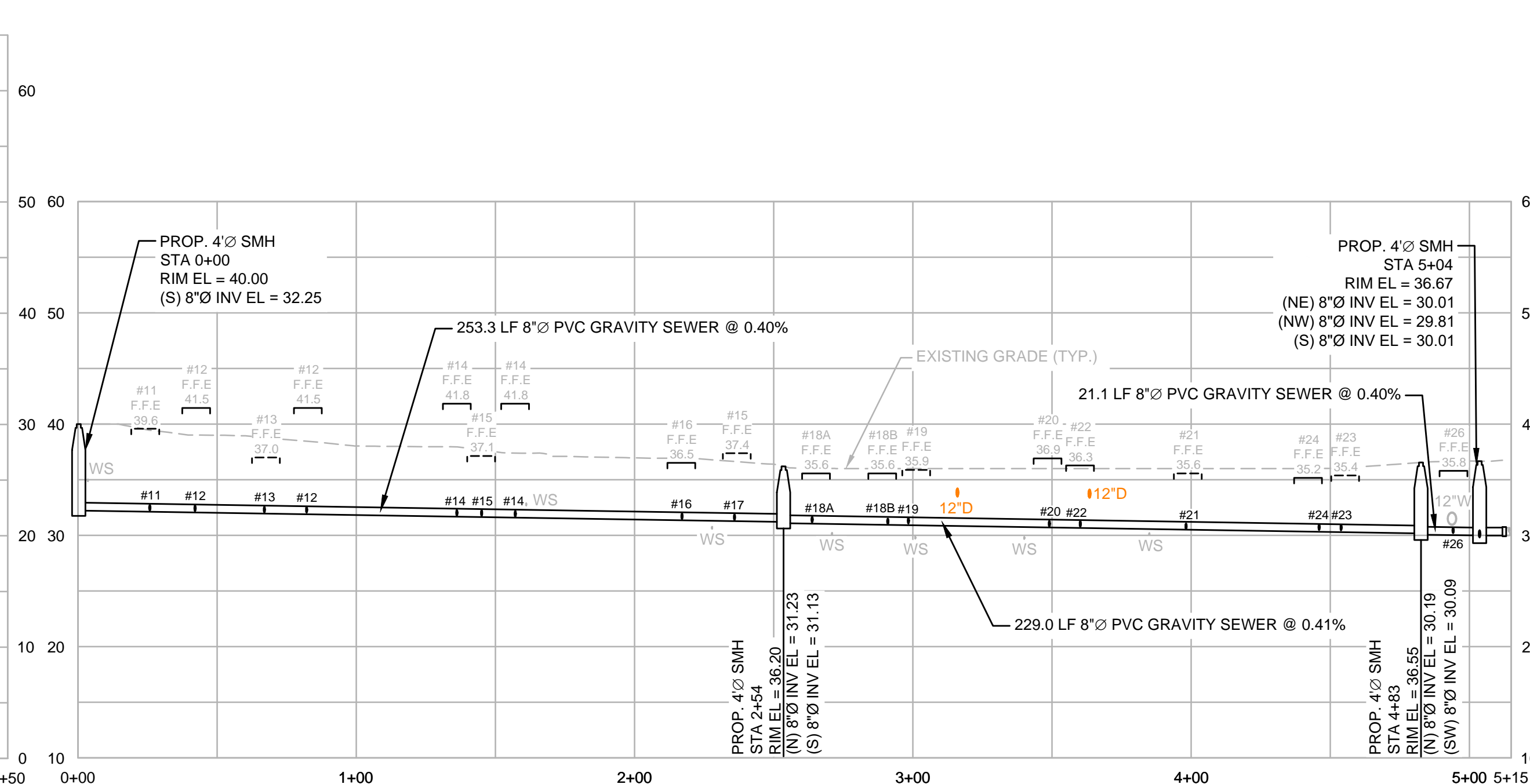
PLAN
SCALE: 1"=40'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



PROFILE
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

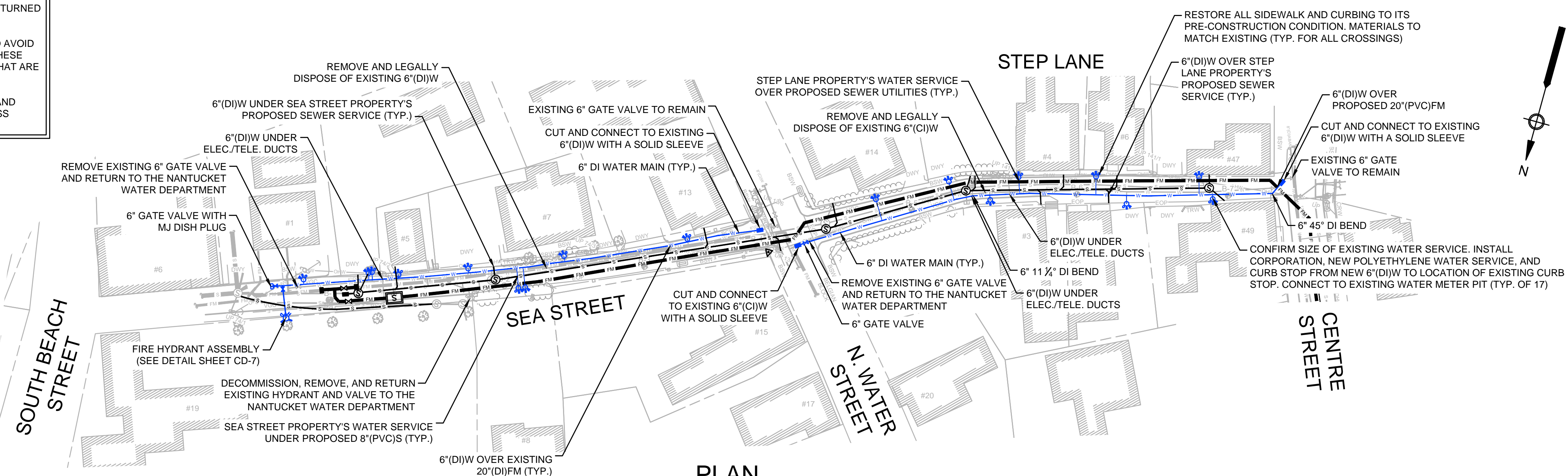
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

ATLANTIC AVENUE AND SILVER STREET
GRAVITY SEWER REPLACEMENT

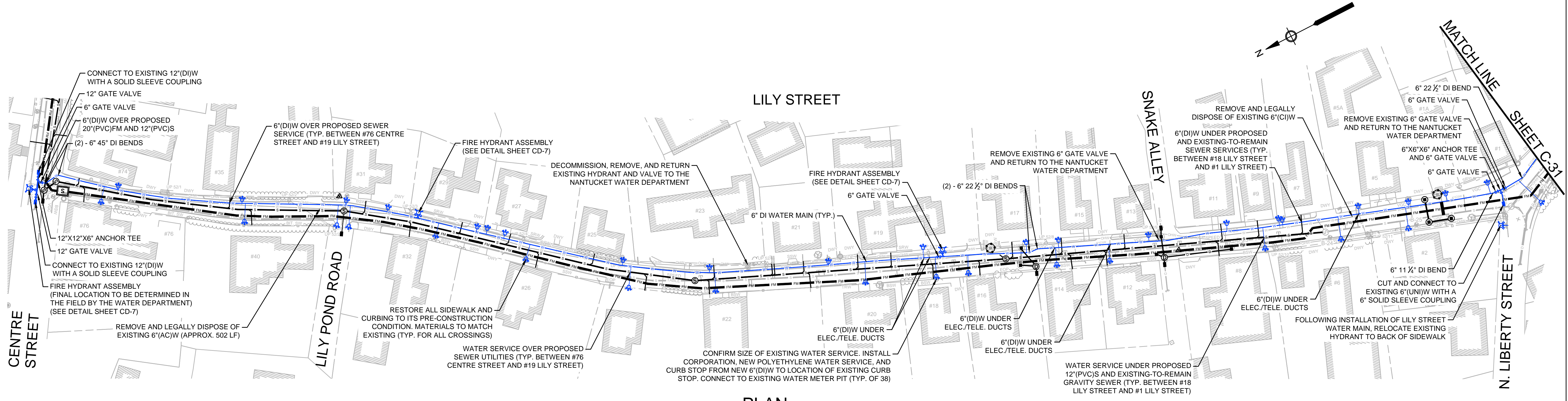
FOR CONSTRUCTION
Sheet No.

C-29

- NOTES:
1. CONNECTIONS TO EXISTING GATE VALVES SHALL BE MADE FOLLOWING APPROVAL BY THE TOWN AND THE ENGINEER IN THE FIELD.
 2. ALL FITTINGS AND VALVES SHALL BE RESTRAINED WITH MEGALUG JOINT RESTRAINTS (OR APPROVED EQUAL) AND THRUST BLOCKS.
 3. EXISTING VALVES AND HYDRANTS SHALL BE REMOVED AND RETURNED TO THE NANTUCKET WATER DEPARTMENT.
 4. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY CROSSINGS TO AVOID CONFLICTS. DRAIN LINES AND SEWER LATERALS SHOWN ON THESE PLANS ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THESE PLANS.
 5. ALL EXISTING SERVICE LINES, CORPORATIONS, CURB STOPS, AND BOXES SHALL BE REMOVED AND LEGALLY DISPOSED OF UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



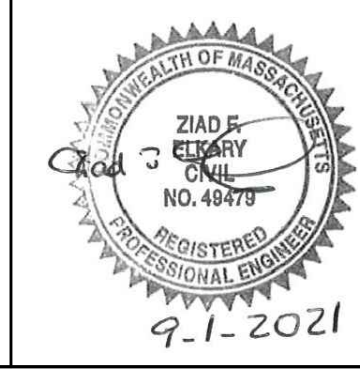
PLAN
SCALE: 1"=40'



PLAN
SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

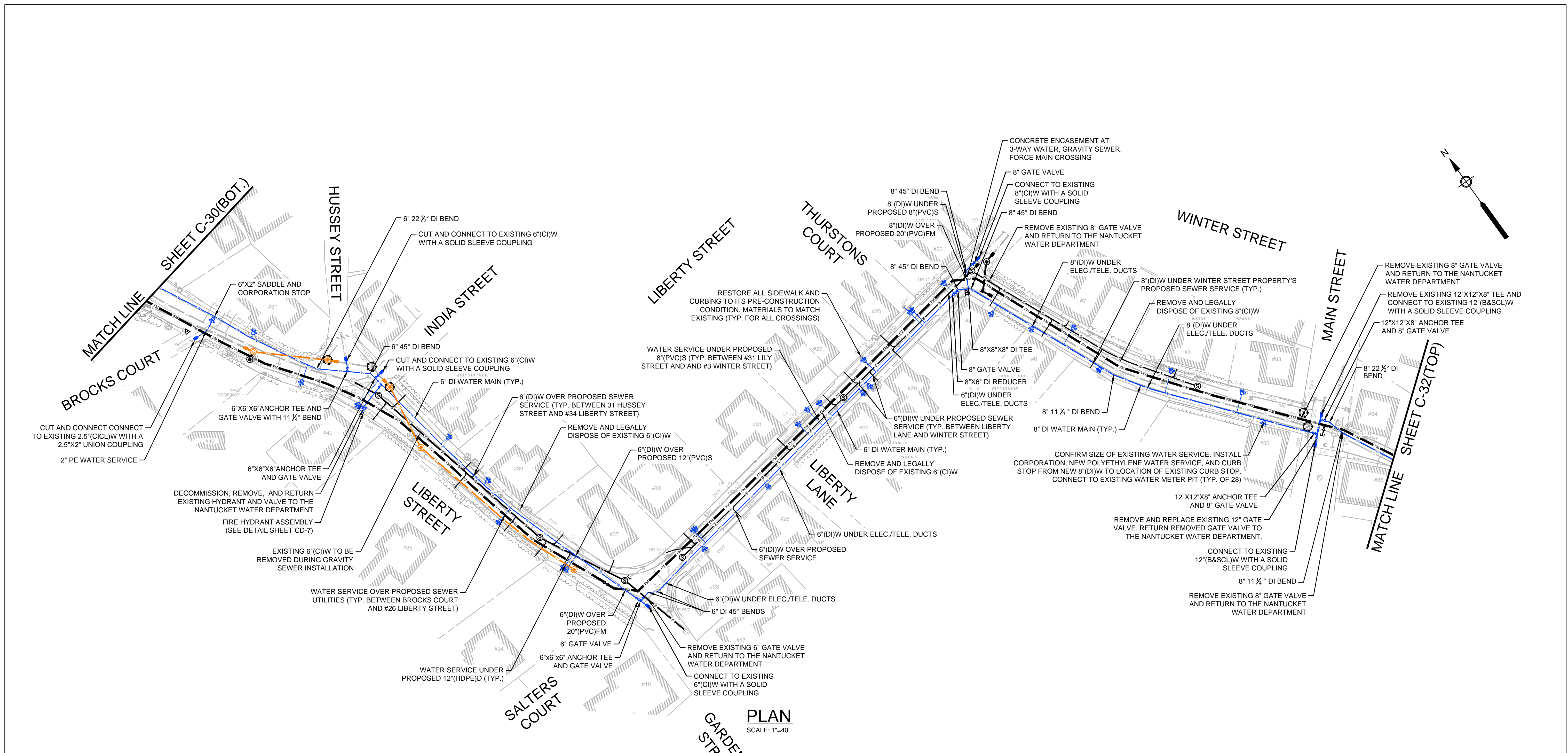
Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA





SEA STREET, STEP LANE, AND LILY STREET
WATER MAIN REPLACEMENT

FOR CONSTRUCTION
Sheet No.
C-30

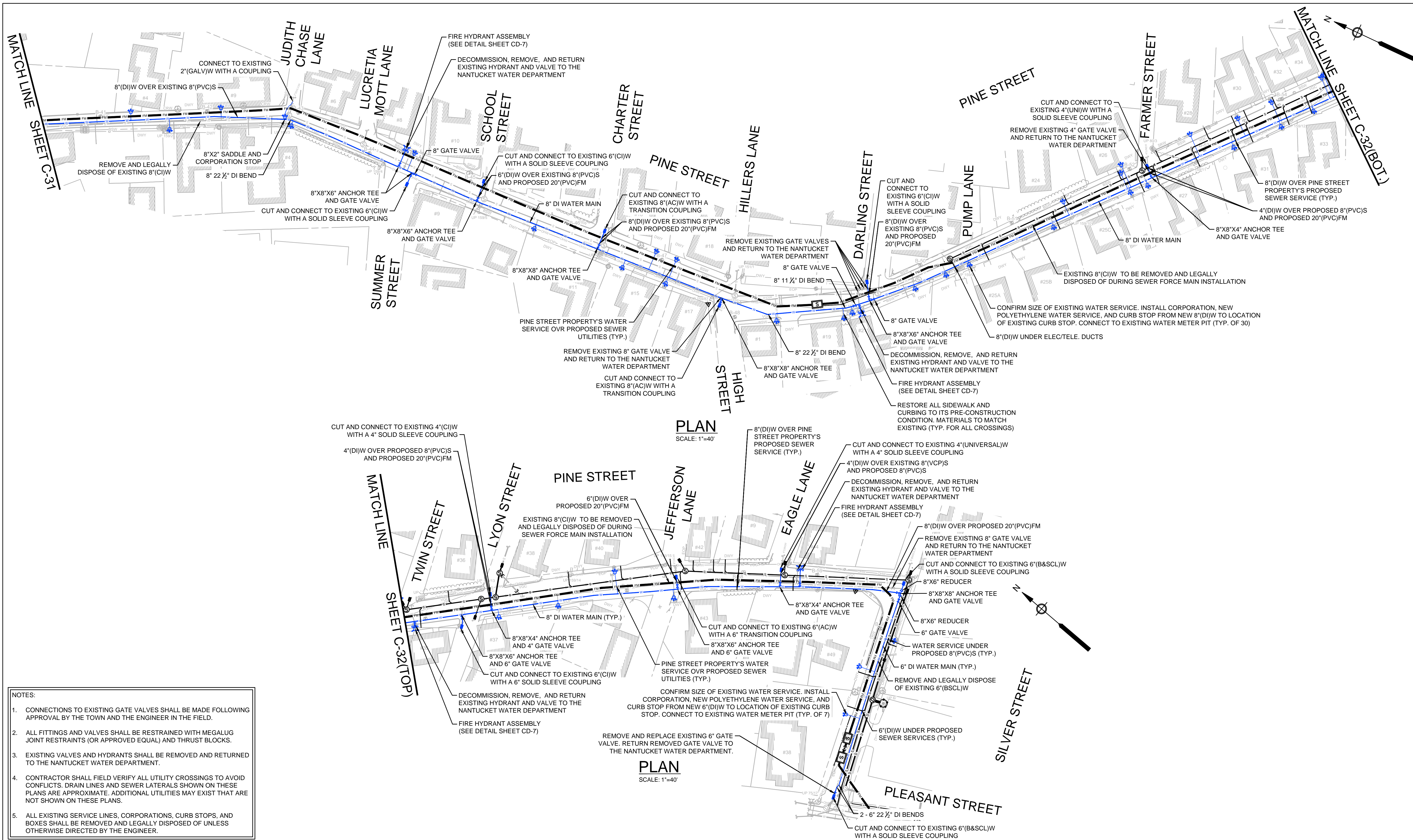


PLAN
SCALE: 1"=40'

- NOTES:**
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						SEA STREET PUMP STATION FORCE MAIN NO.3 TOWN OF NANTUCKET, MA	FOR CONSTRUCTION															
							Sheet No.															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">Scale</td> <td>AS NOTED</td> </tr> <tr> <td>Date</td> <td>SEPTEMBER 2021</td> </tr> <tr> <td>Job No.</td> <td>360-2001</td> </tr> <tr> <td>Designed by</td> <td>FJB</td> </tr> <tr> <td>Drawn by</td> <td>FJB</td> </tr> <tr> <td>Checked by</td> <td>RJR/PCM/RJA</td> </tr> <tr> <td>Approved by</td> <td>ZFK</td> </tr> </table>						Scale	AS NOTED	Date	SEPTEMBER 2021	Job No.	360-2001	Designed by	FJB	Drawn by	FJB	Checked by	RJR/PCM/RJA	Approved by	ZFK	 <p>THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING</p>	LIBERTY STREET AND WINTER STREET WATER MAIN REPLACEMENT	C-31
Scale	AS NOTED																					
Date	SEPTEMBER 2021																					
Job No.	360-2001																					
Designed by	FJB																					
Drawn by	FJB																					
Checked by	RJR/PCM/RJA																					
Approved by	ZFK																					

Drawing file: I:\Nantucket\360-2001 - Sea St PWS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 4:28pm



- NOTES:**
1. CONNECTIONS TO EXISTING GATE VALVES SHALL BE MADE FOLLOWING APPROVAL BY THE TOWN AND THE ENGINEER IN THE FIELD.
 2. ALL FITTINGS AND VALVES SHALL BE RESTRAINED WITH MEGALUG JOINT RESTRAINTS (OR APPROVED EQUAL) AND THRUST BLOCKS.
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ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

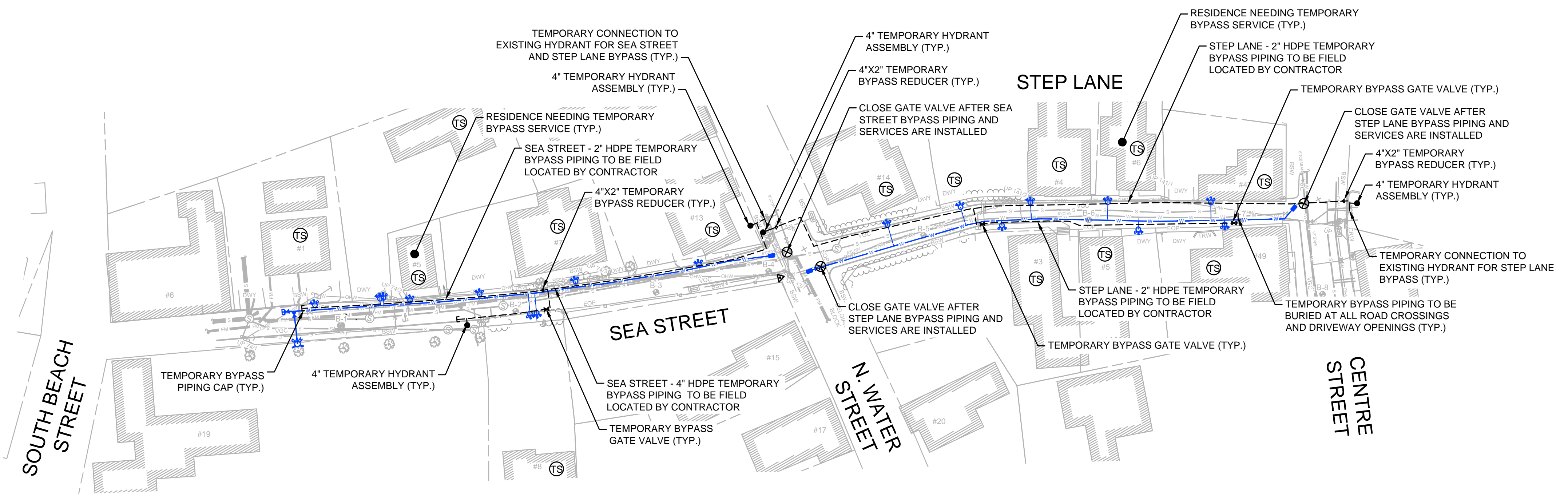
THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

**SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA**

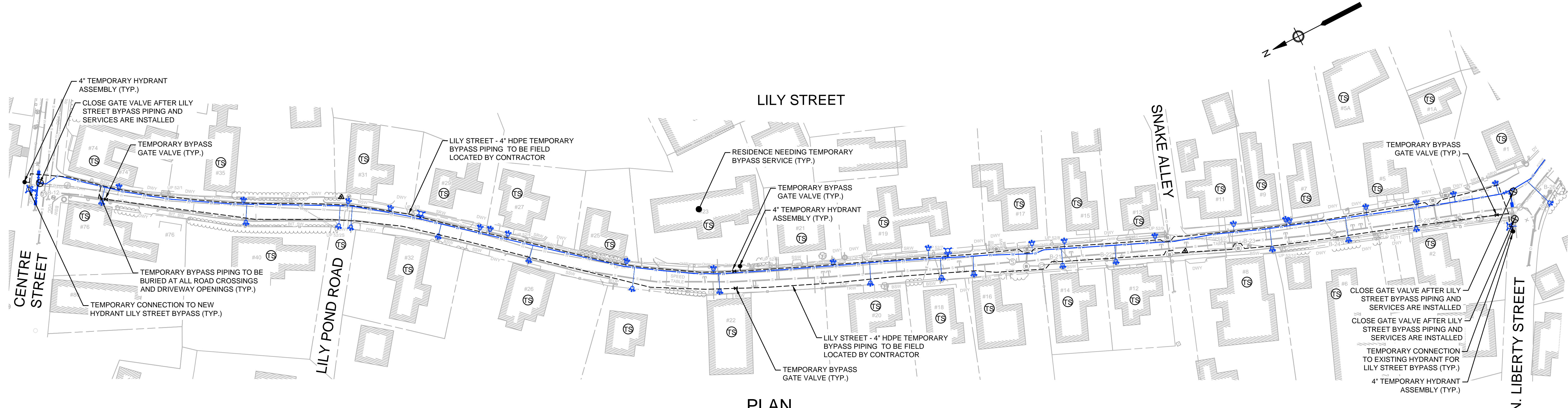
**PINE STREET AND SILVER STREET
WATER MAIN REPLACEMENT**

FOR CONSTRUCTION
Sheet No.
C-32

Drawing file: I:\Nantucket\360-2001 - Sea St P/S FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 4:34pm



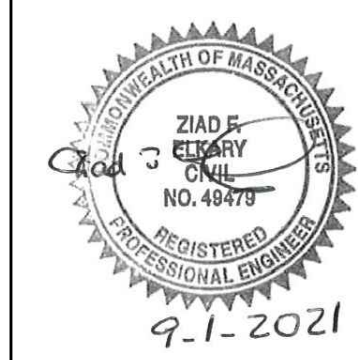
PLAN
SCALE: 1"=40'



PLAN
SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

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SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

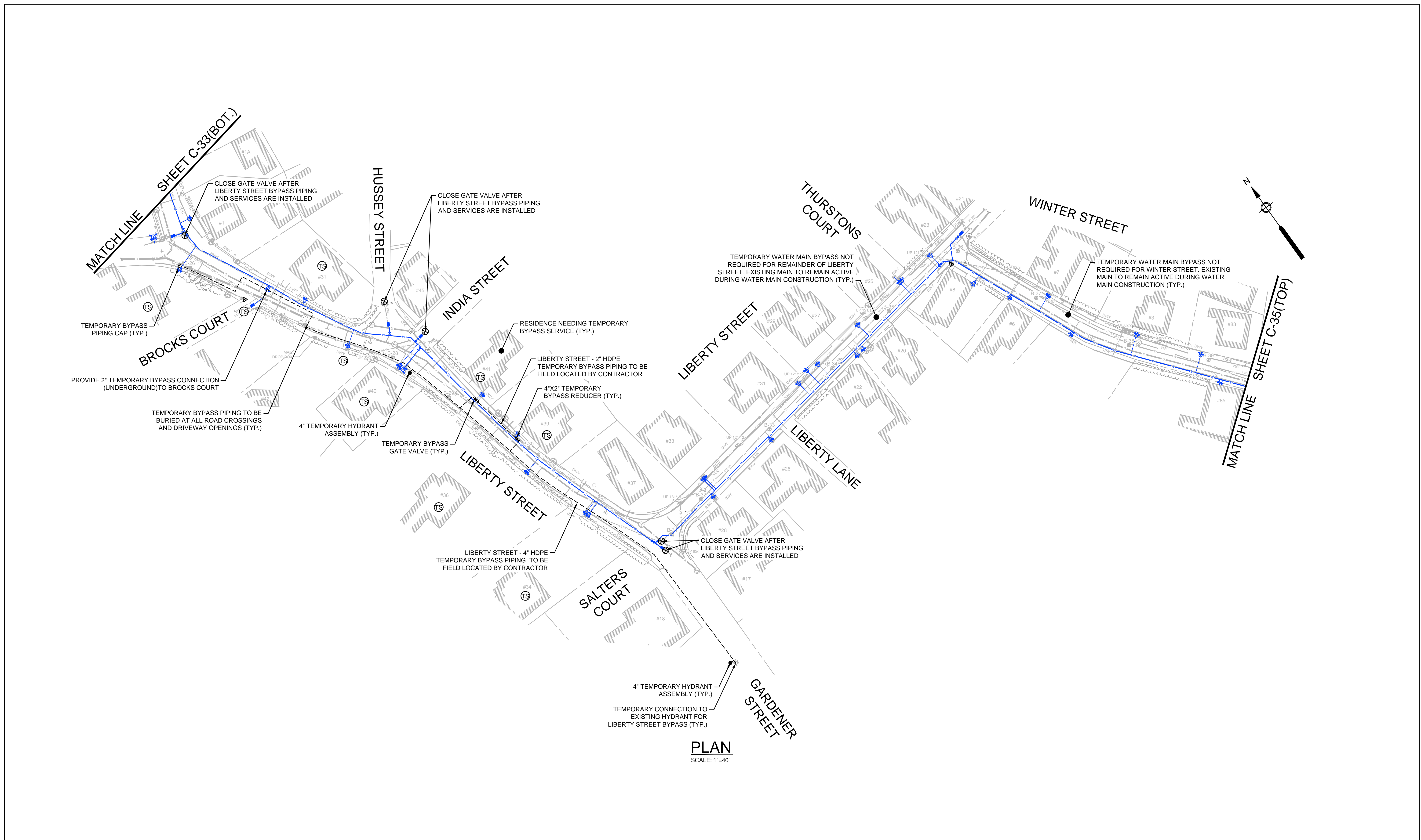
SEA STREET, STEP LANE, AND LILY STREET
WATER MAIN BYPASS

FOR CONSTRUCTION

Sheet No.

C-33

Drawing file: I:\Nantucket\360-2001 - Sea St PS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 11:14am



PLAN
SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

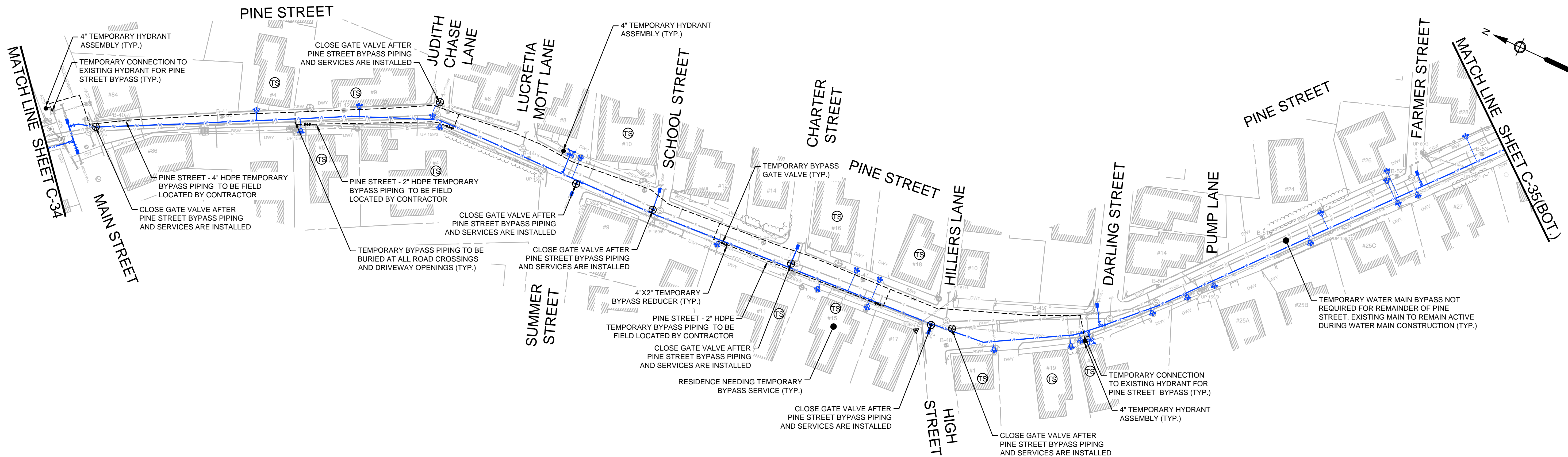
THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

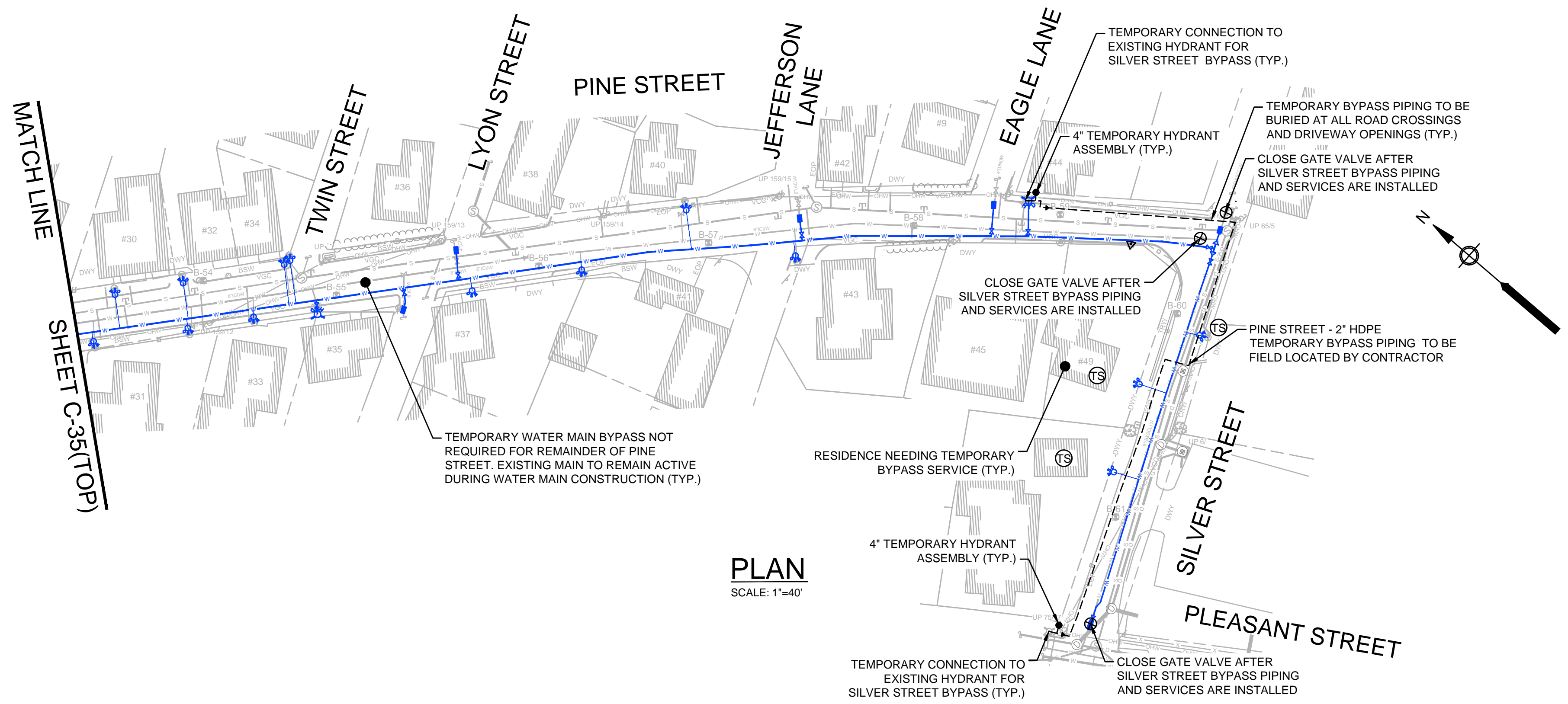
LIBERTY STREET
WATER MAIN BYPASS

FOR CONSTRUCTION
Sheet No.
C-34

Drawing file: I:\Nantucket\060-2001 - Sea St PS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 31 2021 4:02pm



PLAN
SCALE: 1"=40'



PLAN
SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

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SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

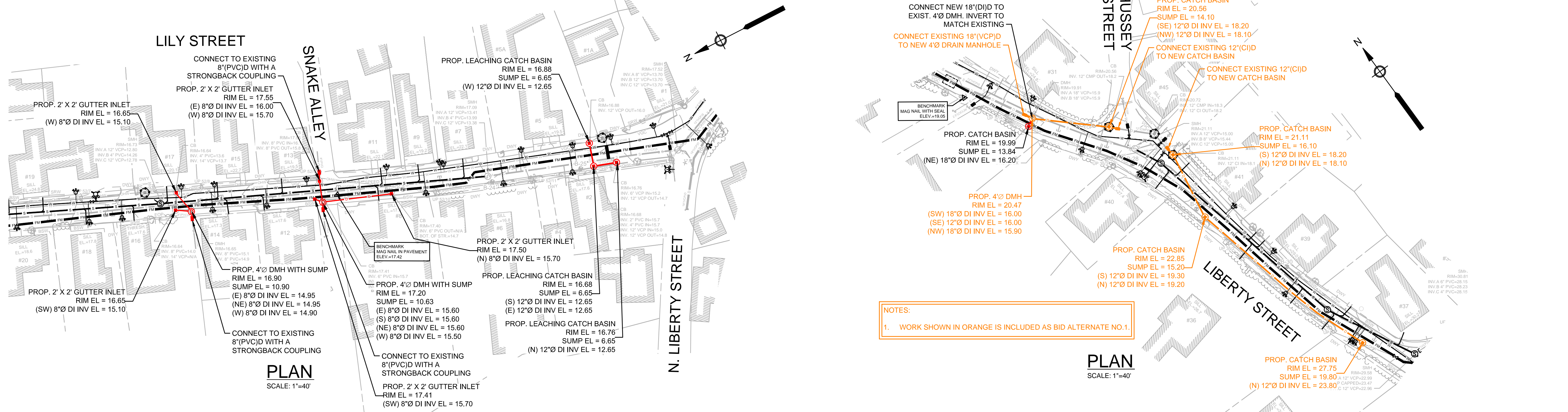
PINE STREET AND SILVER STREET
WATER MAIN BYPASS

FOR CONSTRUCTION

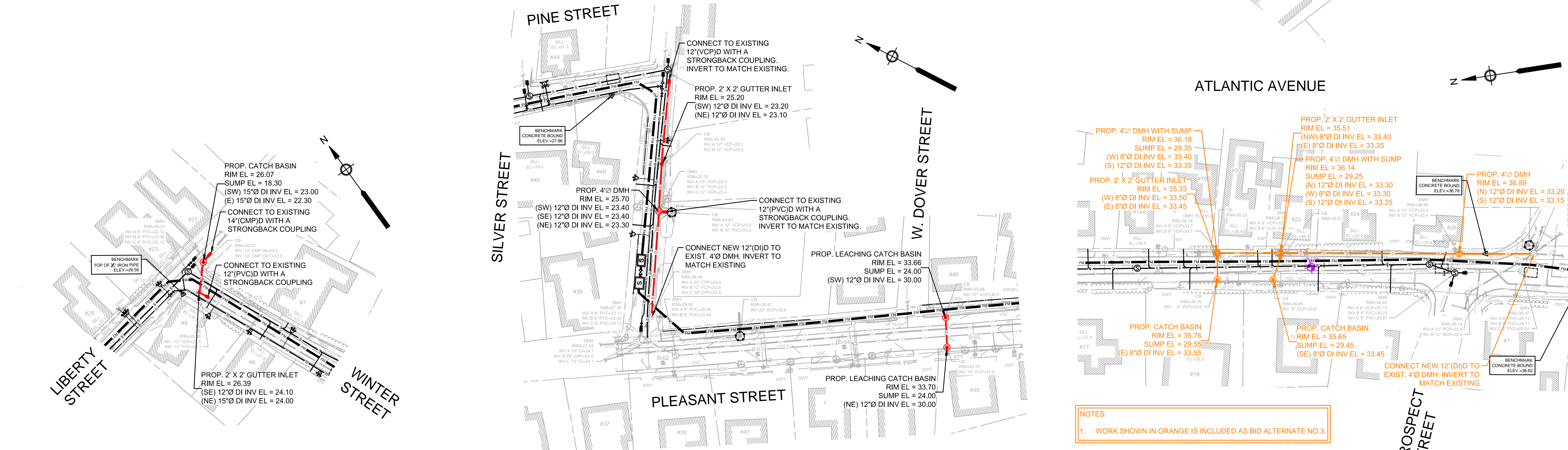
Sheet No.

C-35

Drawing file: I:\Nantucket\360-2001 - Sea St PWS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 11:27am



NOTES:
1. WORK SHOWN IN ORANGE IS INCLUDED AS BID ALTERNATE NO.1.



NOTES:
1. WORK SHOWN IN ORANGE IS INCLUDED AS BID ALTERNATE NO.3.

PLAN SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
— An Apex Company —



Scale	AS NOTED	
Date	SEPTEMBER 2021	
Job No.	360-2001	
Designed by	FJB	
Drawn by	FJB	
Checked by	RJR/PCM/RJA	
Approved by	ZFK	
MARK	DATE	DESCRIPTION

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA
LILY STREET, LIBERTY STREET, SILVER STREET, PLEASANT STREET,
AND ATLANTIC AVENUE STORMWATER IMPROVEMENTS

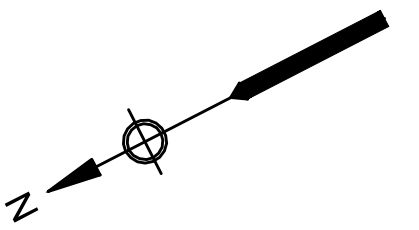
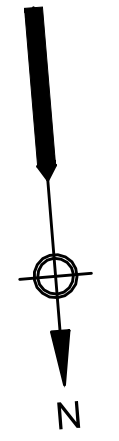
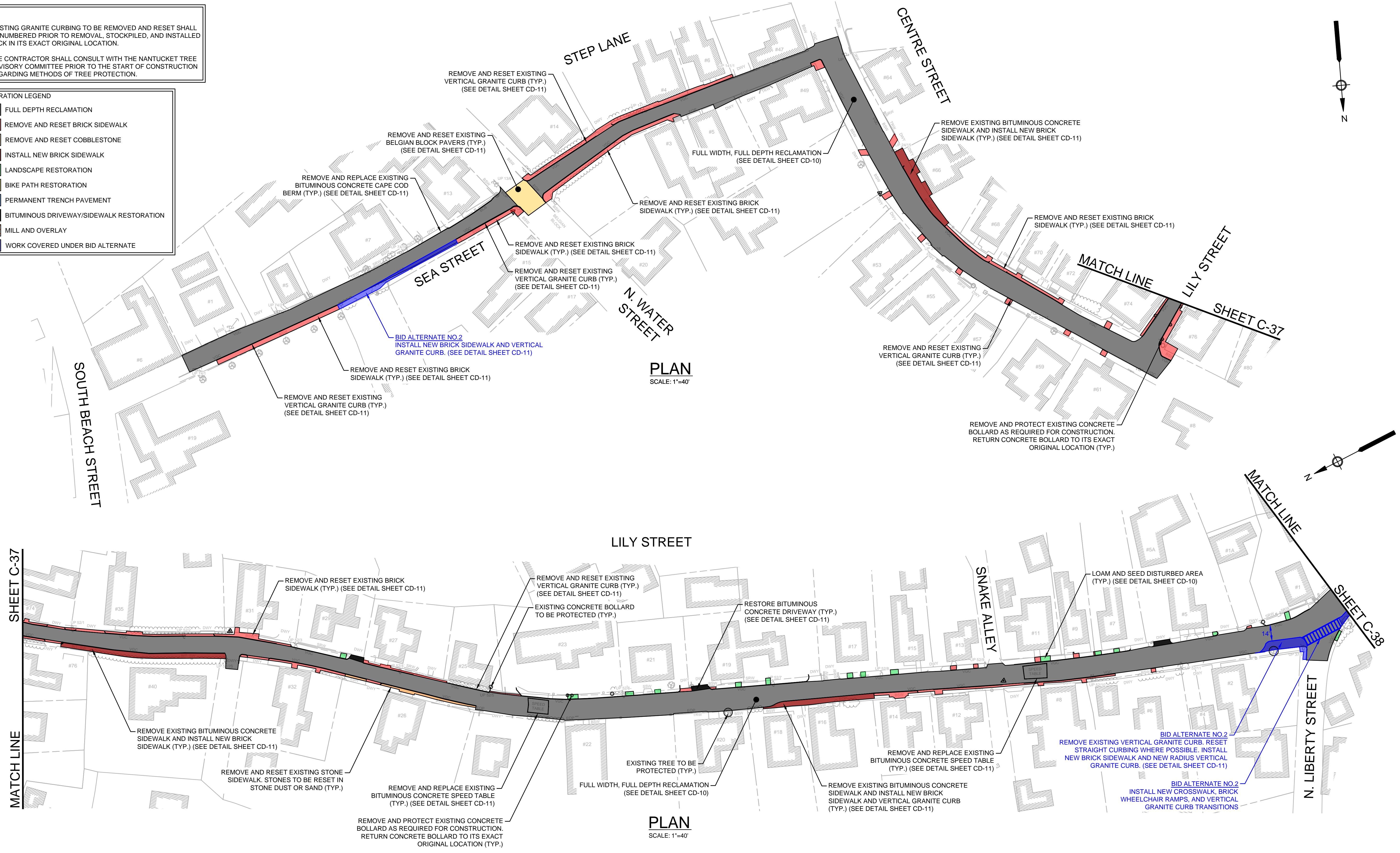
FOR CONSTRUCTION
Sheet No.
C-36

Drawing file: I:\Nantucket\360-2001 - Sea St. PS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\04 Proposed Sheets.dwg Plot Date: Aug 30, 2021 11:45pm

- NOTES:
- EXISTING GRANITE CURBING TO BE REMOVED AND RESET SHALL BE NUMBERED PRIOR TO REMOVAL, STOCKPILED, AND INSTALLED BACK IN ITS EXACT ORIGINAL LOCATION.
 - THE CONTRACTOR SHALL CONSULT WITH THE NANTUCKET TREE ADVISORY COMMITTEE PRIOR TO THE START OF CONSTRUCTION REGARDING METHODS OF TREE PROTECTION.

RESTORATION LEGEND

[Grey]	FULL DEPTH RECLAMATION
[Red]	REMOVE AND RESET BRICK SIDEWALK
[Yellow]	REMOVE AND RESET COBBLESTONE
[Dark Red]	INSTALL NEW BRICK SIDEWALK
[Green]	LANDSCAPE RESTORATION
[Light Green]	BIKE PATH RESTORATION
[Blue]	PERMANENT TRENCH PAVEMENT
[Black]	BITUMINOUS DRIVEWAY/SIDEWALK RESTORATION
[Orange]	MILL AND OVERLAY
[Blue with diagonal lines]	WORK COVERED UNDER BID ALTERNATE



ENVIRONMENTAL PARTNERS
— An Apex Company —



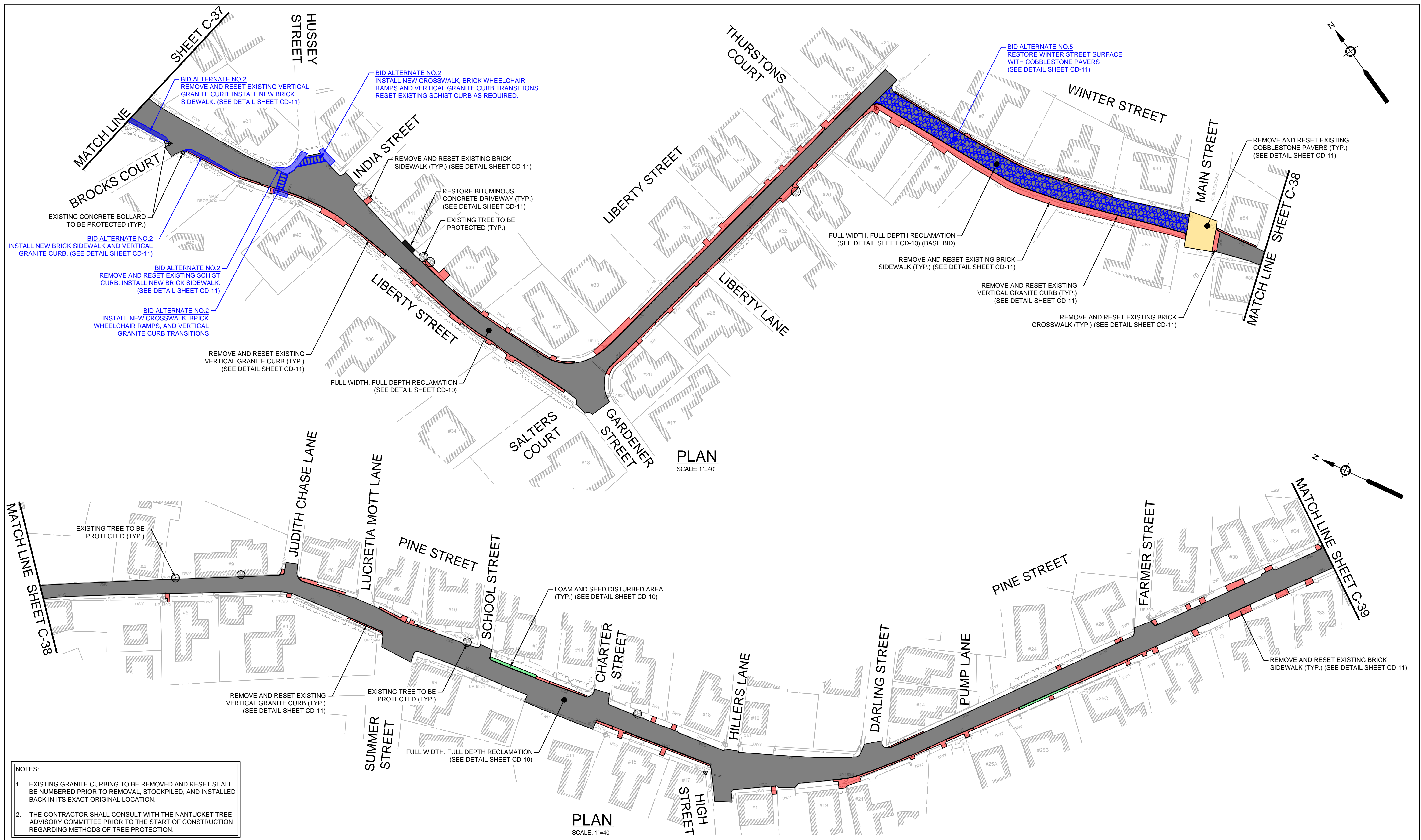
MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

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SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA
SEA STREET, STEP LANE, CENTRE STREET, AND LILY STREET
SURFACE RESTORATION PLAN

FOR CONSTRUCTION
Sheet No.
C-37



PLAN
SCALE: 1"=40'

PLAN
SCALE: 1"=40'

- NOTES:
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ENVIRONMENTAL PARTNERS
— An Apex Company —



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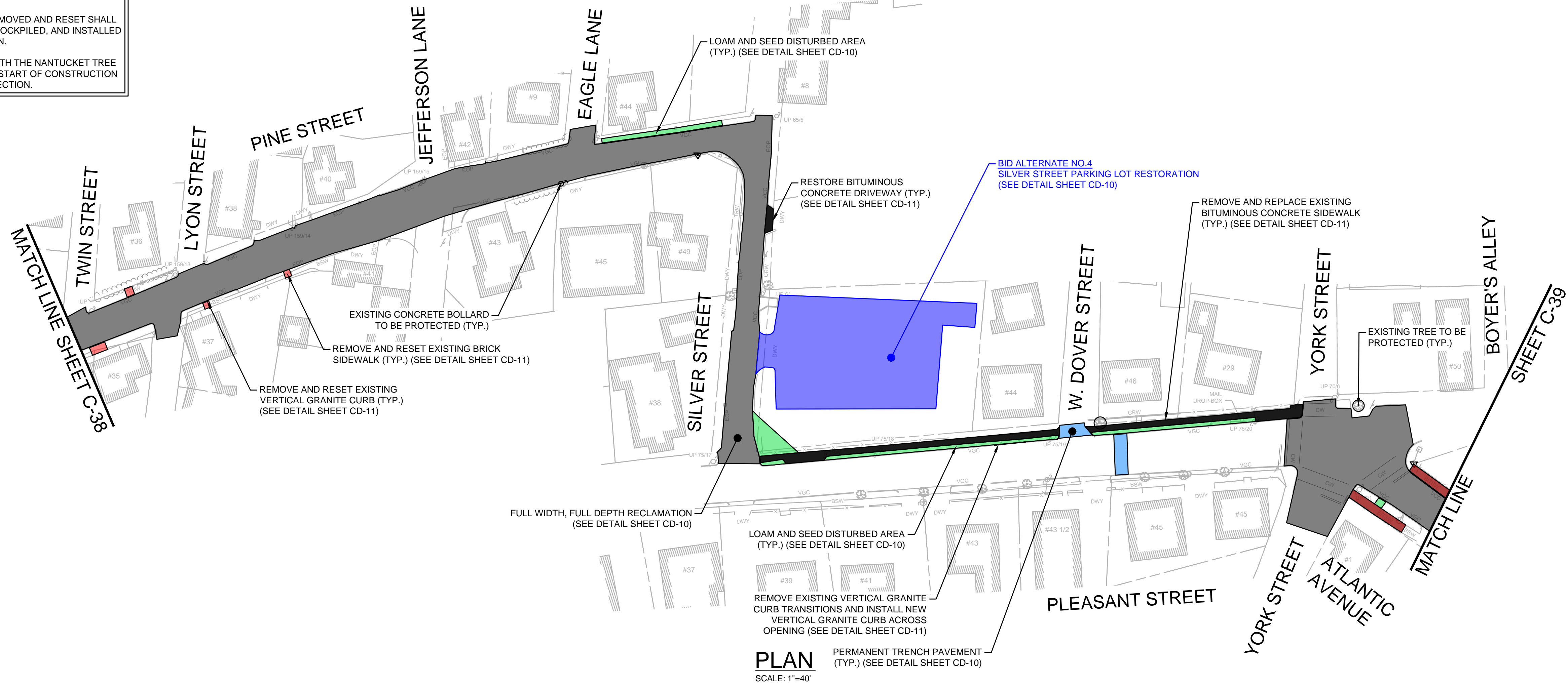
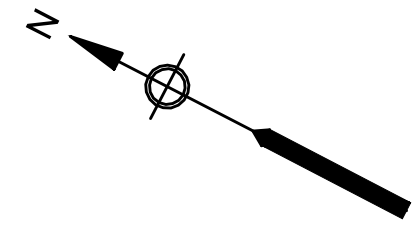
THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

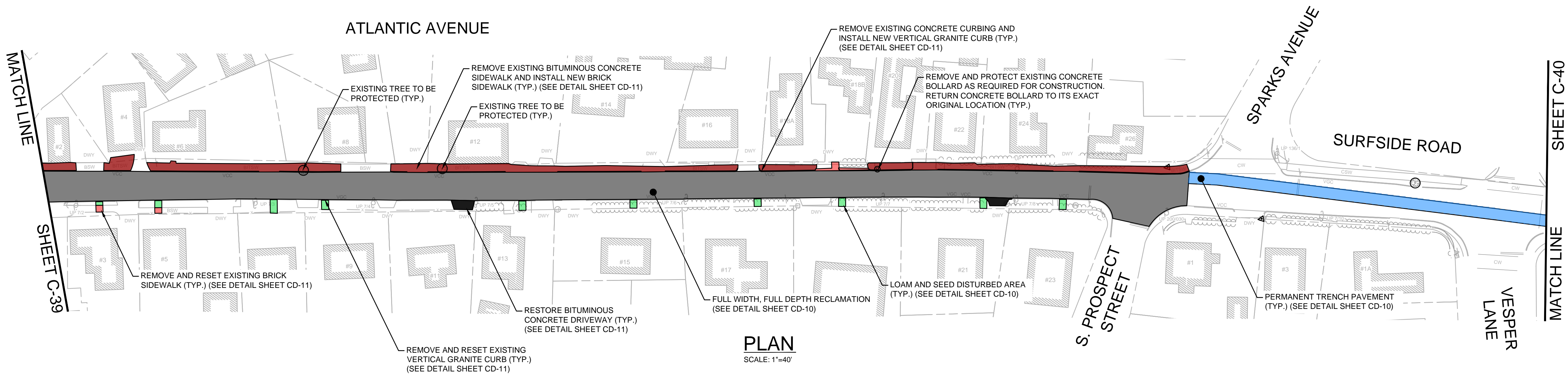
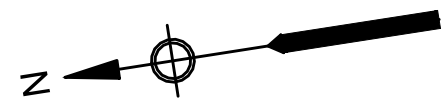
LIBERTY STREET, WINTER STREET, AND PINE STREET
SURFACE RESTORATION PLAN

FOR CONSTRUCTION
Sheet No.
C-38

- NOTES:
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PLAN
SCALE: 1"=40'



PLAN
SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
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Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA
PINE STREET, SILVER STREET, PLEASANT STREET, ATLANTIC AVENUE,
AND SURFSIDE ROAD SURFACE RESTORATION PLAN

FOR CONSTRUCTION
Sheet No.
C-39



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
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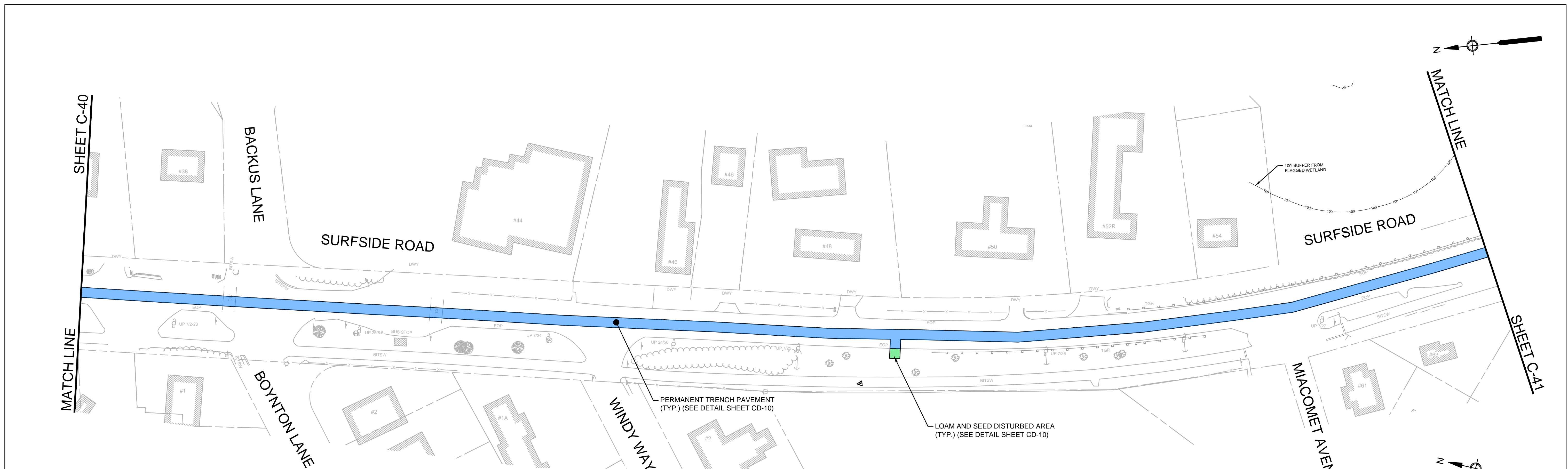
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

SURFSIDE ROAD
SURFACE RESTORATION PLAN

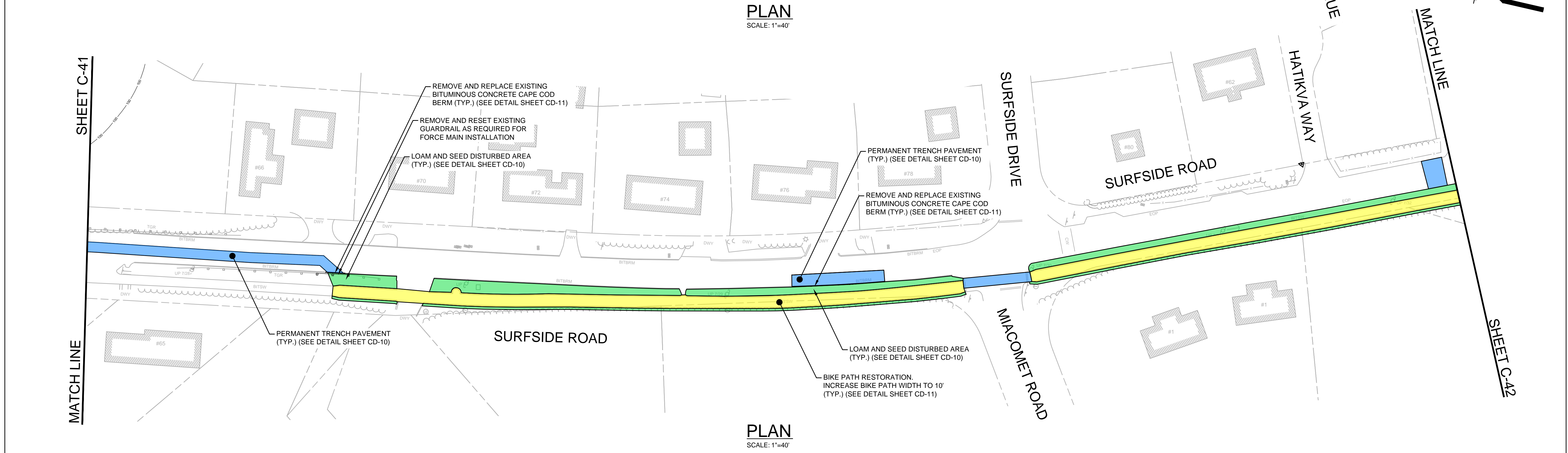
FOR CONSTRUCTION
Sheet No.

C-40




Drawing file: I:\Nantucket\360-2001 - Sea St PS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\05 Restoration Sheets.dwg Plot Date: Aug 31, 2021 12:07pm



PLAN
SCALE: 1"=40'



PLAN
SCALE: 1"=40'

						SEA STREET PUMP STATION FORCE MAIN NO.3 TOWN OF NANTUCKET, MA SURFSIDE ROAD SURFACE RESTORATION PLAN	FOR CONSTRUCTION																												
			<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">MARK</th> <th style="width:10%;">DATE</th> <th style="width:80%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	MARK	DATE		DESCRIPTION																<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Scale</td><td>AS NOTED</td></tr> <tr><td>Date</td><td>SEPTEMBER 2021</td></tr> <tr><td>Job No.</td><td>360-2001</td></tr> <tr><td>Designed by</td><td>FJB</td></tr> <tr><td>Drawn by</td><td>FJB</td></tr> <tr><td>Checked by</td><td>RJR/PCM/RJA</td></tr> <tr><td>Approved by</td><td>ZFK</td></tr> </table>	Scale	AS NOTED	Date	SEPTEMBER 2021	Job No.	360-2001	Designed by	FJB	Drawn by	FJB	Checked by	RJR/PCM/RJA
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ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

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SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

SURFSIDE ROAD AND S. SHORE ROAD
SURFACE RESTORATION PLAN

FOR CONSTRUCTION

Sheet No.

C-42

Drawing file: I:\Nantucket\360-2001 - Sea St Pump Station\Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\05 Restoration Sheets.dwg Plot Date: Aug 31, 2021 12:15pm



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

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Job No.	360-2001
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Checked by	RJR/PCM/RJA
Approved by	ZFK

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SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

S. SHORE ROAD
SURFACE RESTORATION PLAN

FOR CONSTRUCTION
Sheet No.

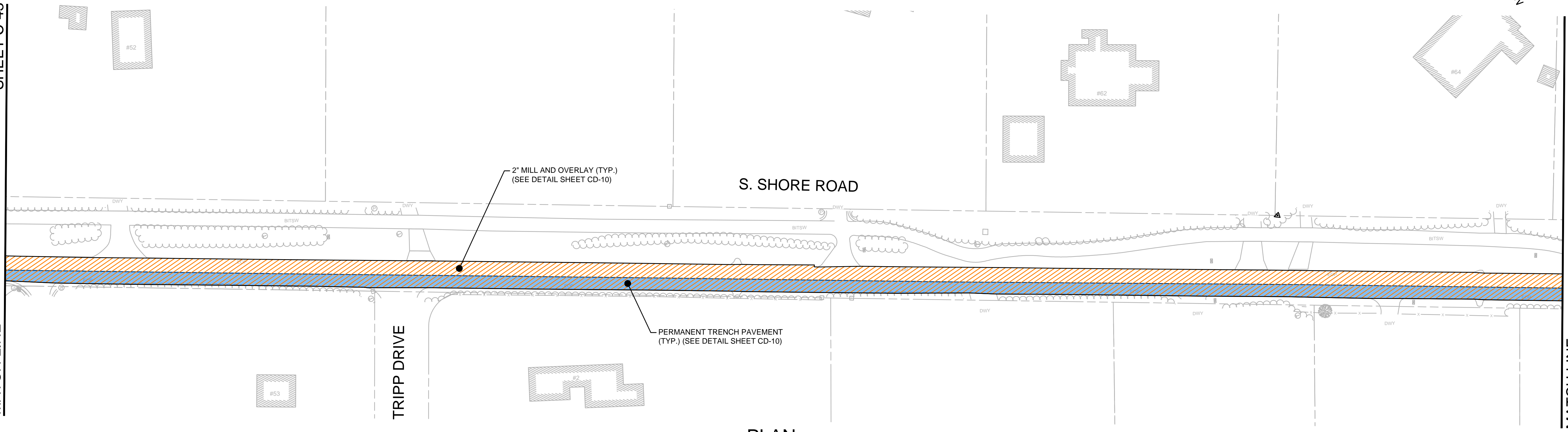
C-43

SHEET C-43

MATCH LINE

SHEET C-44

MATCH LINE

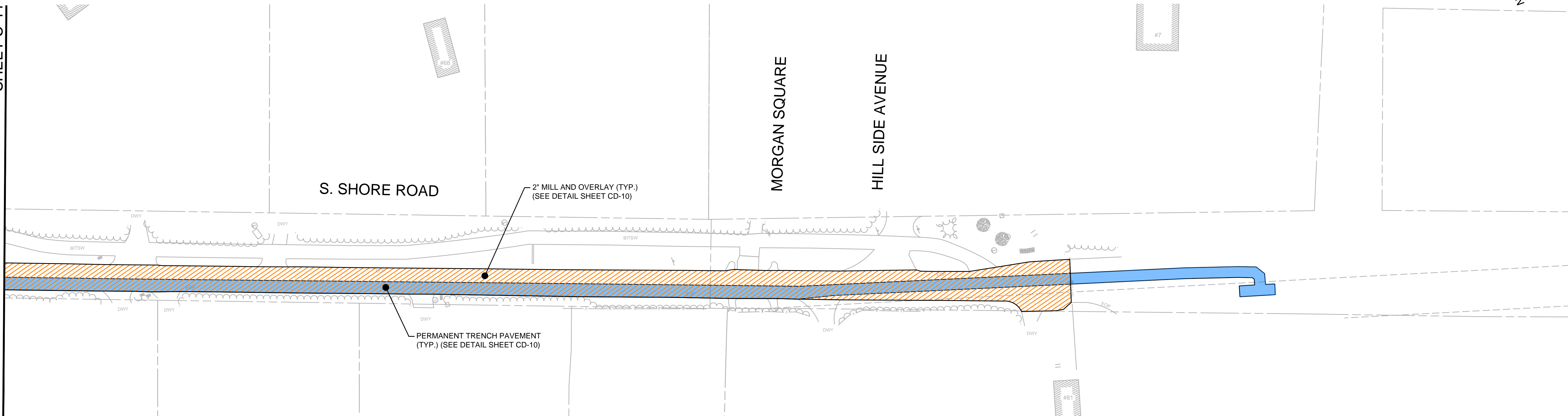


PLAN
SCALE: 1"=40'

SHEET C-44

MATCH LINE

MATCH LINE



PLAN
SCALE: 1"=40'



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
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Designed by	FJB
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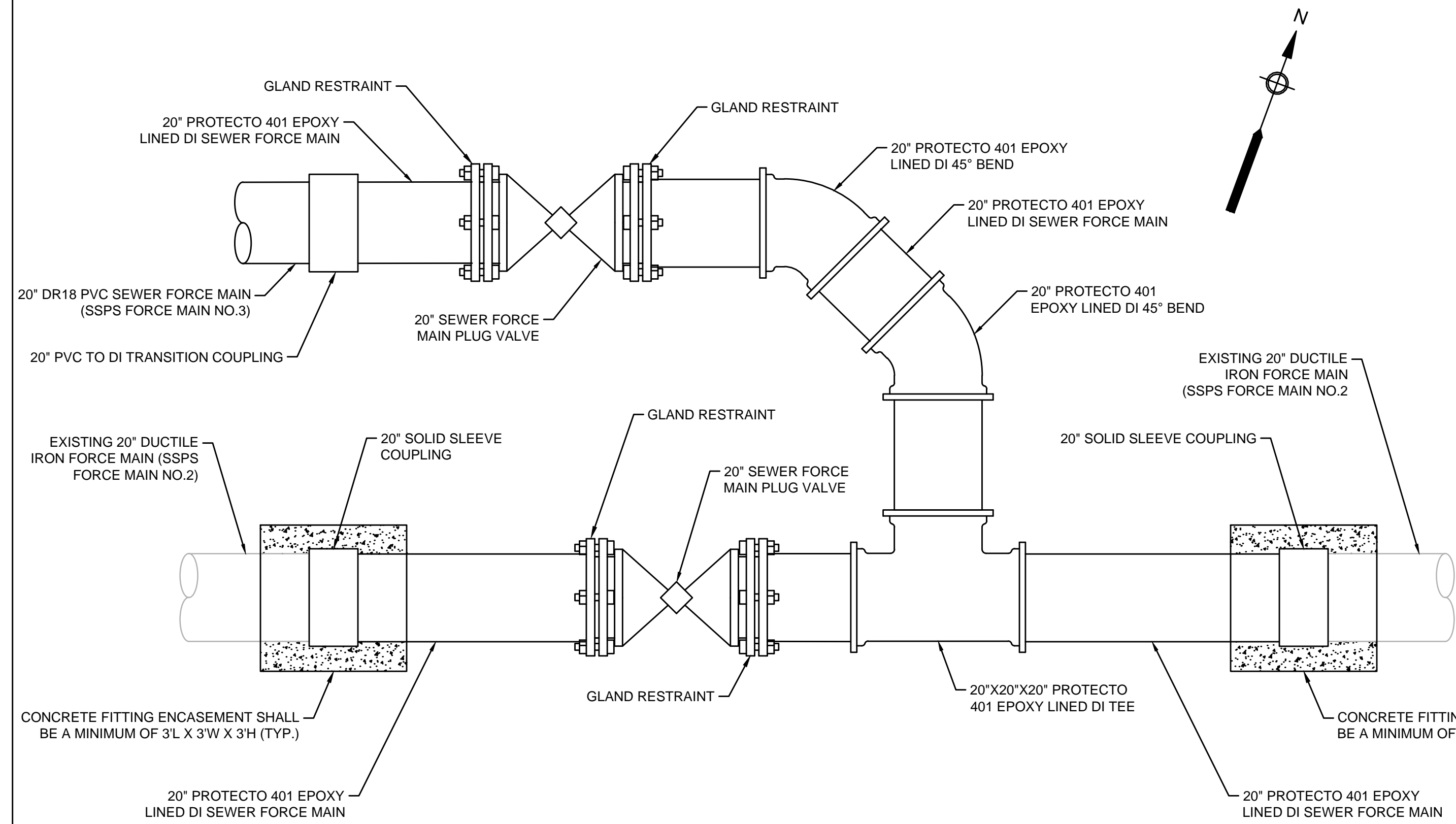
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

S. SHORE ROAD
SURFACE RESTORATION PLAN

FOR CONSTRUCTION
Sheet No.

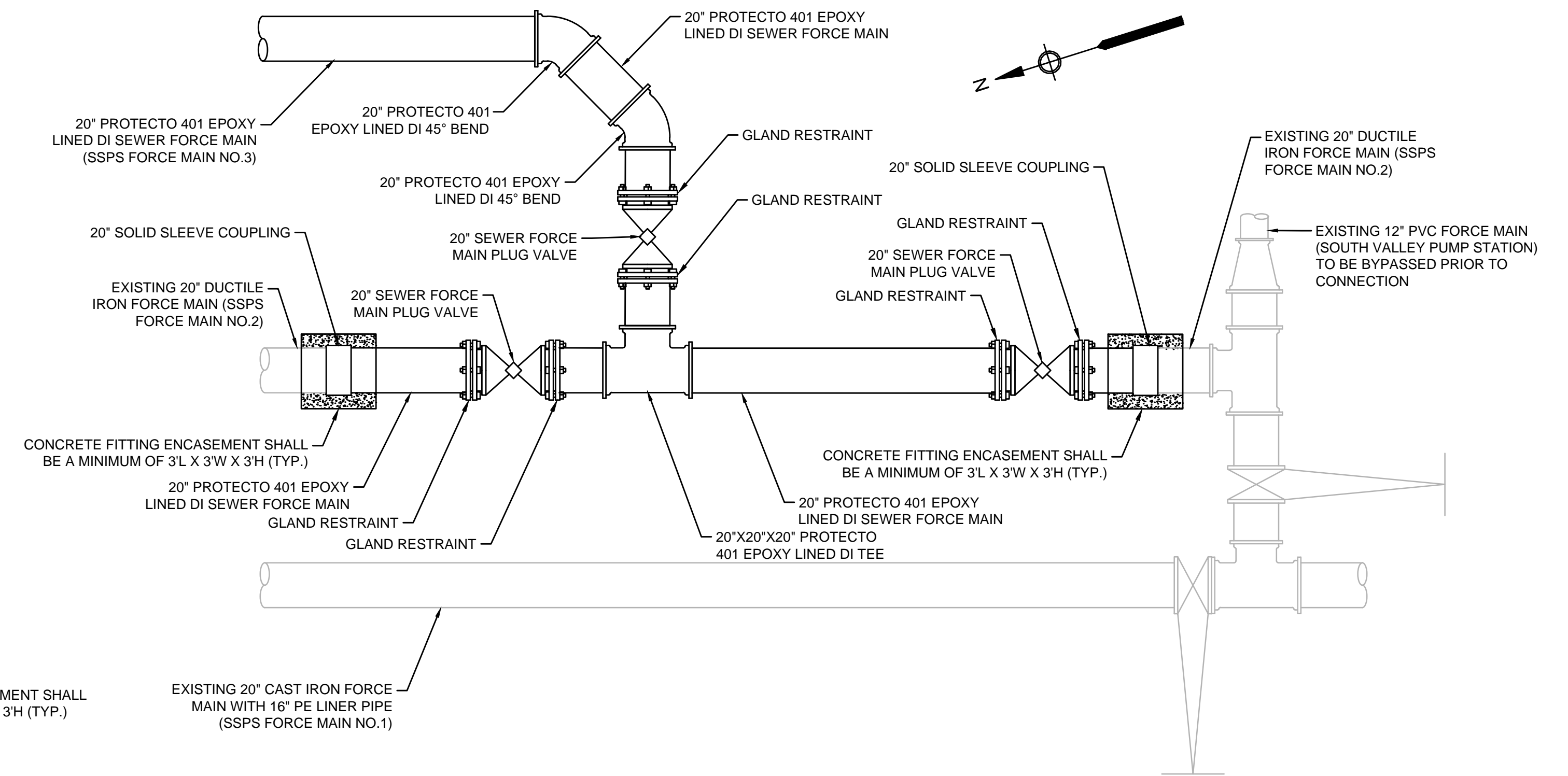
C-44

Drawing file: I:\Nantucket\360-2001 - Sea St PS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\05 Restoration Sheets.dwg Plot Date: Aug 31, 2021 12:17pm



CONNECTION AT SEA STREET PUMP STATION

SCALE: N.T.S.



CONNECTION AT SURFSIDE WASTEWATER TREATMENT FACILITY

SCALE: N.T.S.

- NOTES:
1. PRESSURE TESTING OF THE 20"/24" SEWER FORCE MAIN SHALL BE COMPLETED BEFORE MAKING THE FINAL CONNECTIONS TO BOTH THE SSPS AND THE SSWTF.
 2. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE 401 PROTECTO EPOXY LINED.
 3. ALL PIPE AND FITTINGS SHALL BE RESTRAINED.



ENVIRONMENTAL PARTNERS
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MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

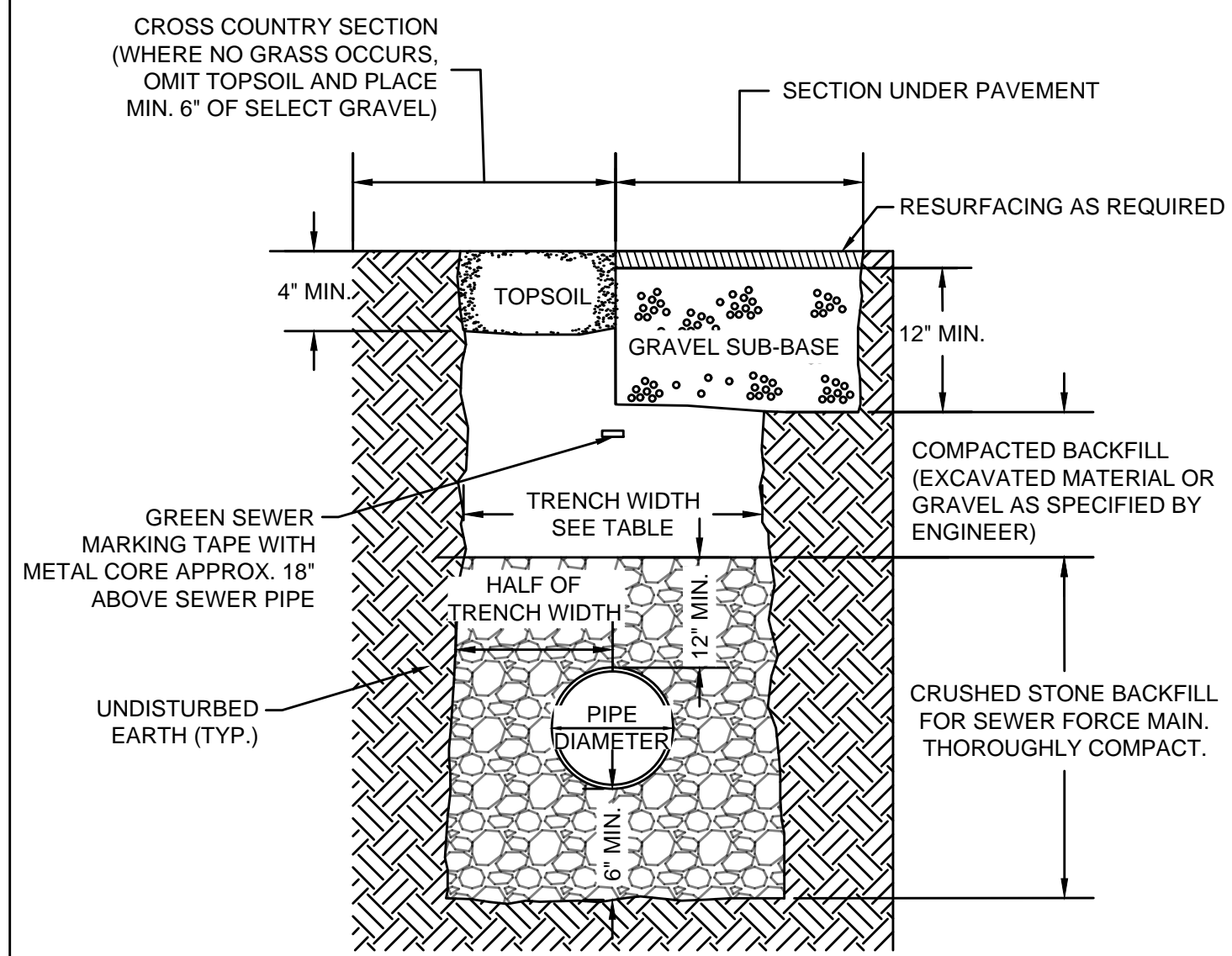
THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

**SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA**

SEWER FORCE MAIN DETAILS I

FOR CONSTRUCTION
Sheet No.

CD-1



TRENCH WIDTH PAYMENT SCHEDULE

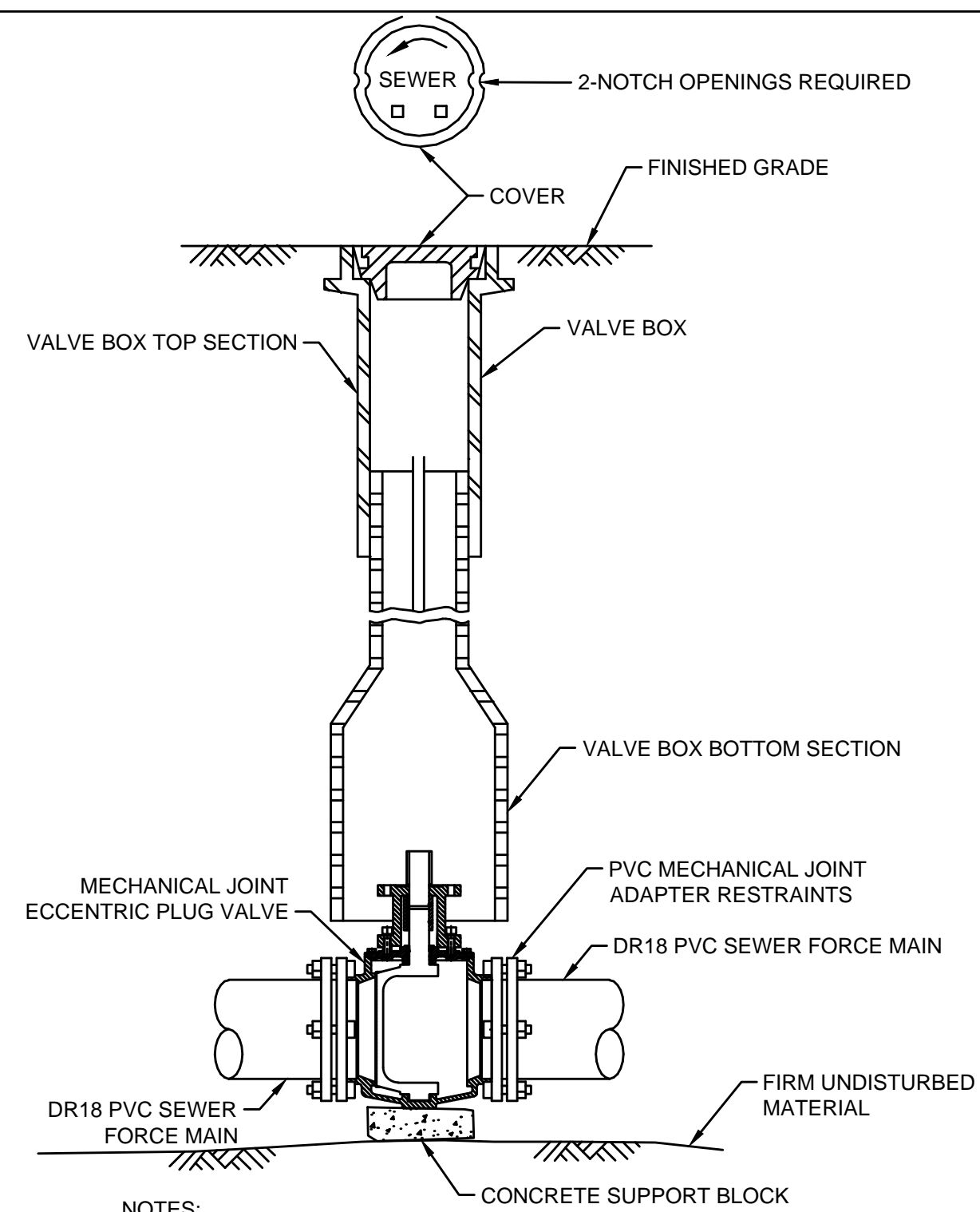
PIPE DIAMETER	TRENCH DEPTH		
	0 - 12'	12 - 20'	> 20'
UP TO 24"	5'	7'	10'
> 24"	D+3'	D+5'	D+8'

NOTES:

- TRENCH PAYMENT WIDTH FOR MULTIPLE PIPES IN THE SAME TRENCH WILL BE INCREASED BY LARGER PIPE DIAMETER PLUS A MAXIMUM OF 1'-0" HORIZONTAL SEPARATION AS MEASURED BETWEEN EACH PIPE.
- D = PIPE DIAMETER (IN FEET). FOR EXAMPLE, IF PIPE IS 30"Ø AND LESS THAN 12' DEEP, THEN TRENCH WIDTH IS 2.5'+3'=5.5'

TYPICAL SEWER FORCE MAIN TRENCH

SCALE: N.T.S.

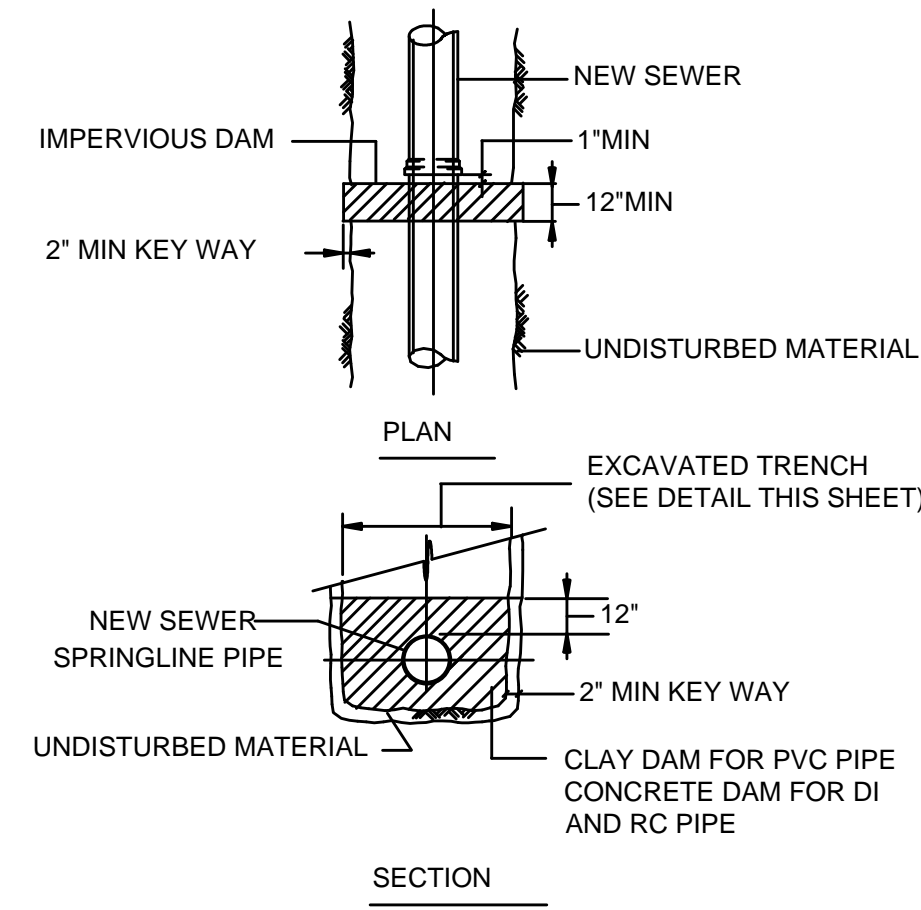


NOTES:

- ALL SEWER PLUG VALVES SHALL OPEN LEFT.
- PROVIDE CUSTOM WRENCHES REQUIRED FOR VALVES WITH RISING STEMS TO THE TOWN.

SEWER FORCE MAIN PLUG VALVE AND VALVE BOX

SCALE: N.T.S.

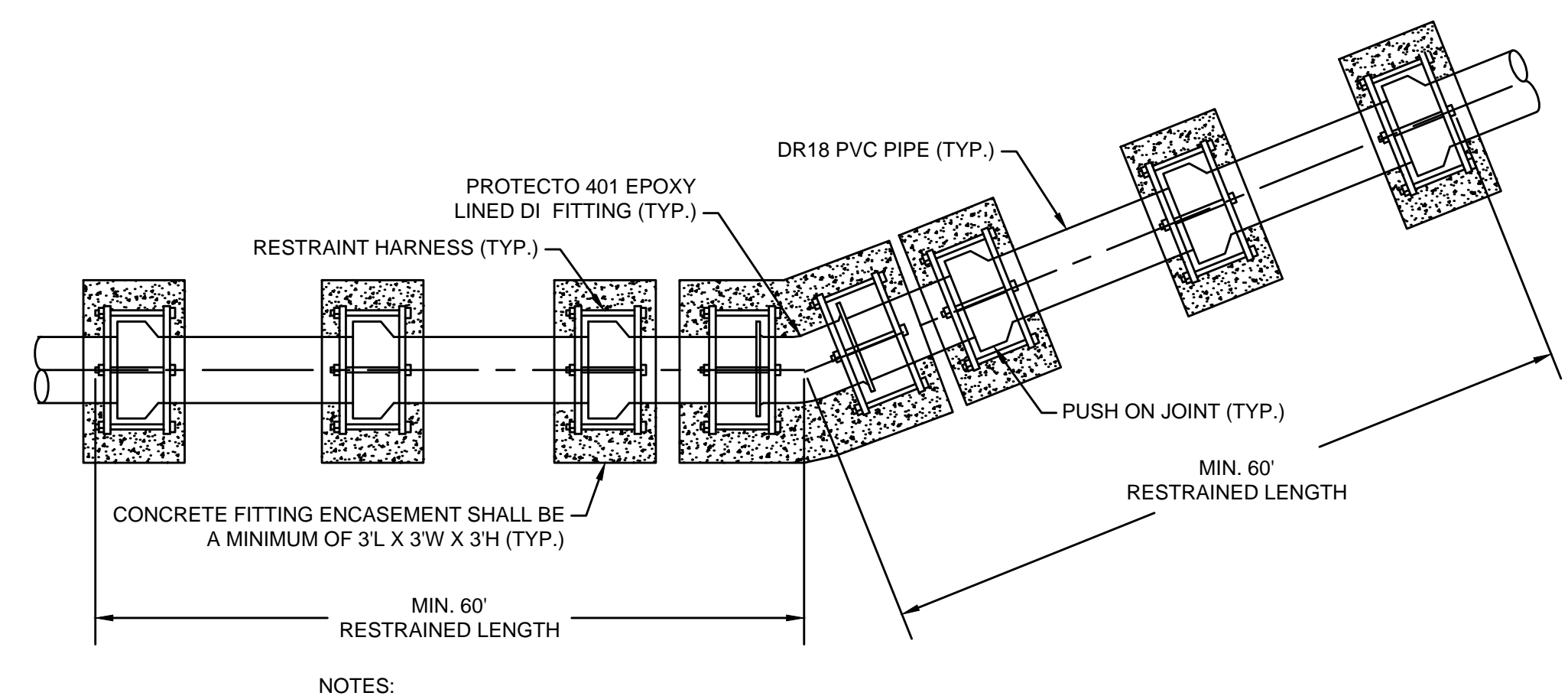


NOTES:

- FOR PIPES OTHER THAN PVC, TOP OF DAM TO BE AT MID-DIAMETER OF PIPE.

PIPE TRENCH DAM DETAIL

SCALE: N.T.S.

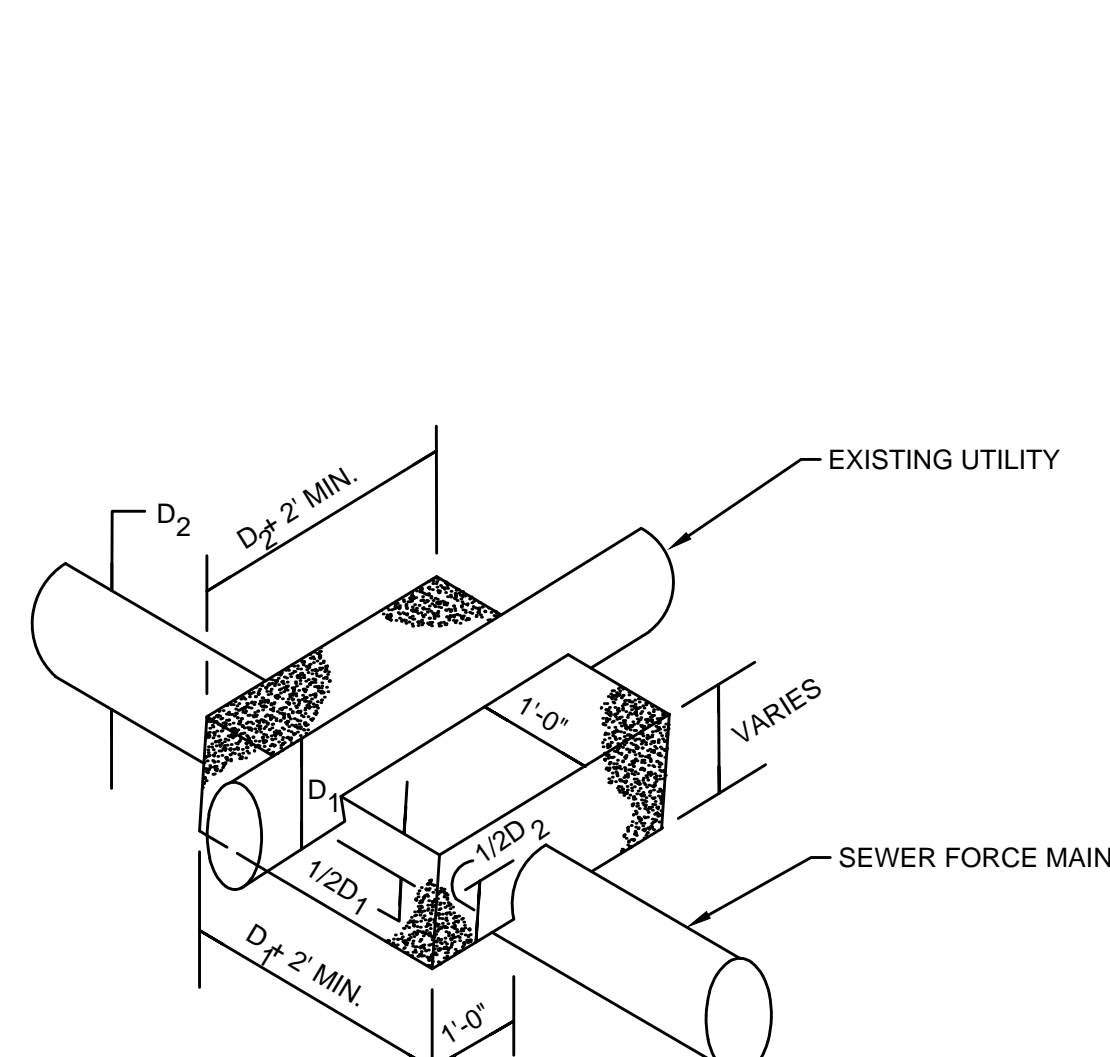


NOTES:

- CONCRETE FITTING ENCASEMENT SHALL BE DESIGNED BY THE CONTRACTOR. THE FITTING ENCASEMENT SHALL BE CAST-IN-PLACE WITH A MINIMUM 3' EXTENSION FROM THE FACE OF EACH FITTING.

PVC/DI FITTINGS AND RESTRAINTS

SCALE: N.T.S.

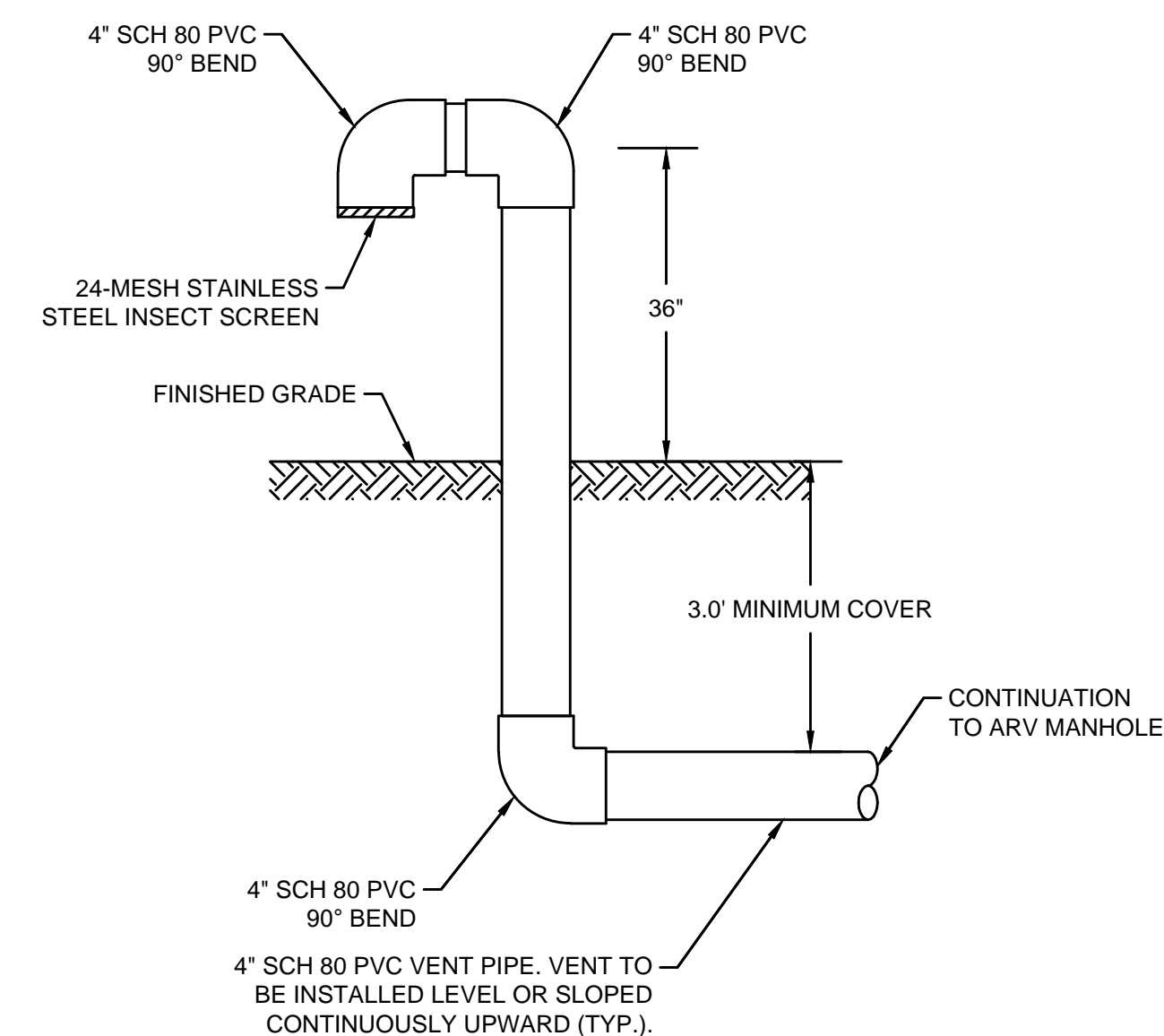


NOTES:

- ALL UTILITY CROSSINGS WITHIN 12' OF THE INSTALLED FORCE MAIN SHALL BE CONCRETE ENCASED.
- ENCASEMENT SHALL BE EXCAVATABLE FLOWABLE FILL.

CONCRETE ENCASEMENT FOR SEWER FORCE MAIN CROSSING

SCALE: N.T.S.

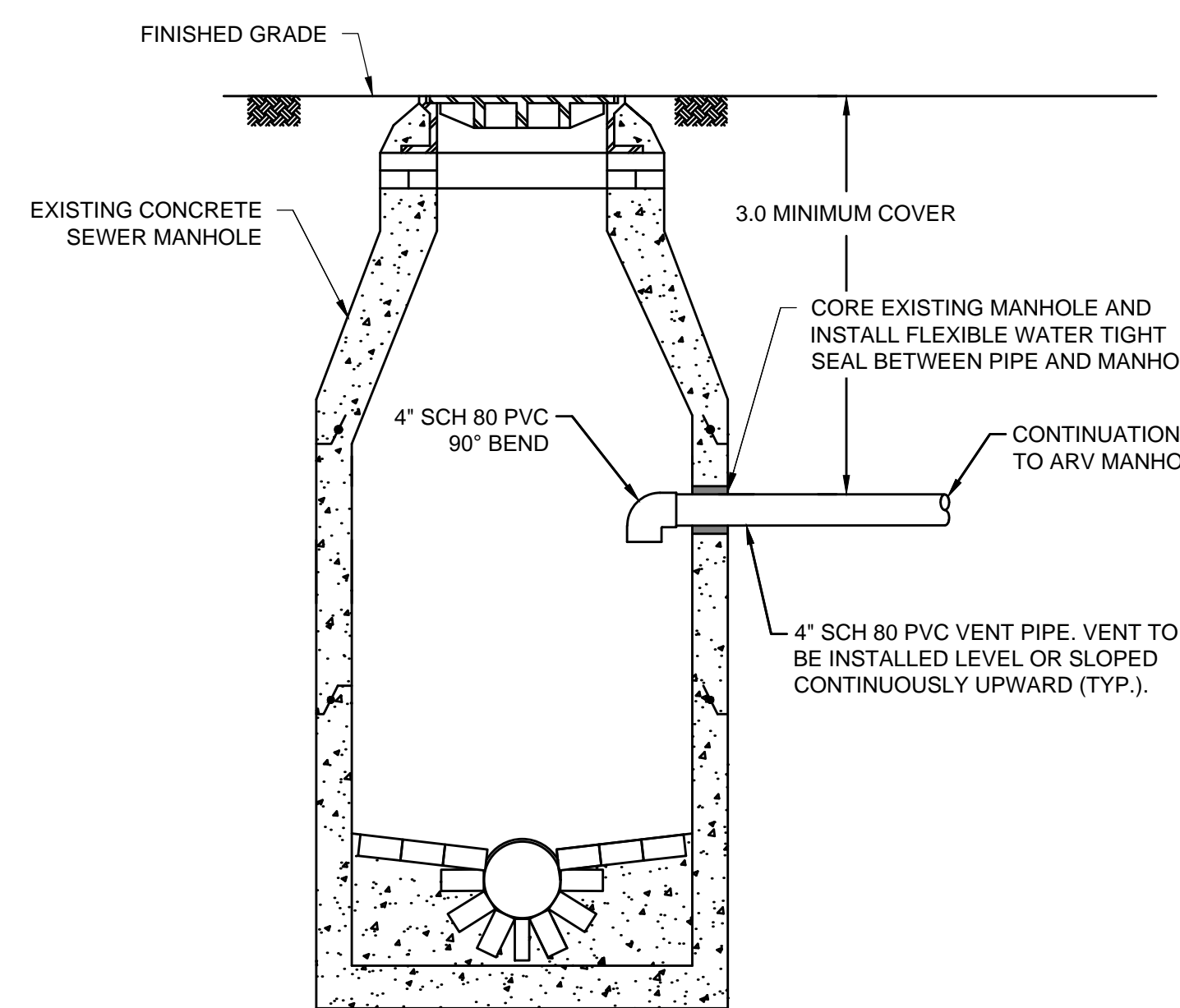


NOTES:

- COORDINATE VENT LOCATION WITH TOWN PRIOR TO INSTALLATION.

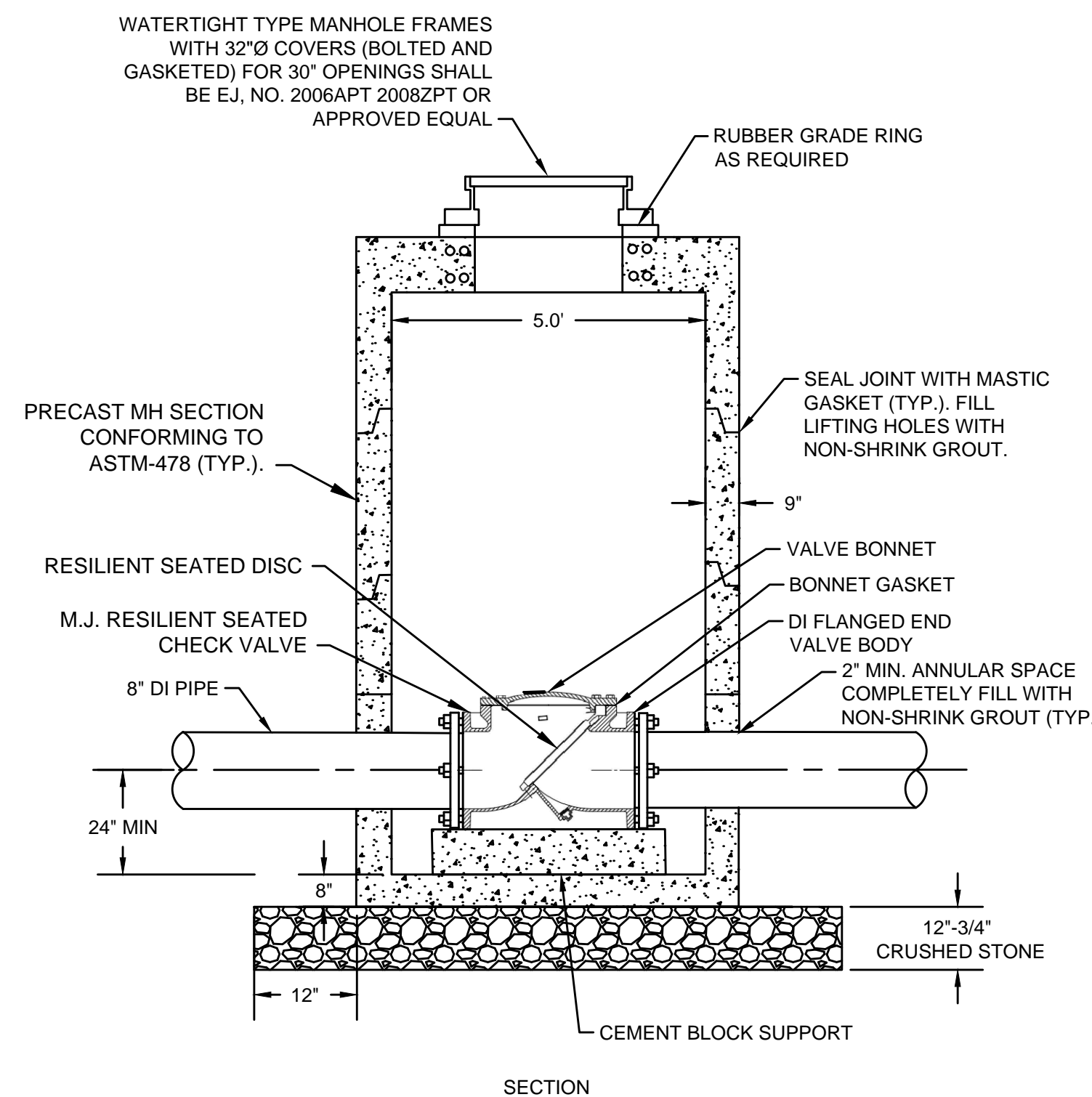
SEWER FORCE MAIN ARV VENT CANE DETAIL

SCALE: N.T.S.



SEWER FORCE MAIN ARV VENT TO GRAVITY SMH DETAIL

SCALE: N.T.S.

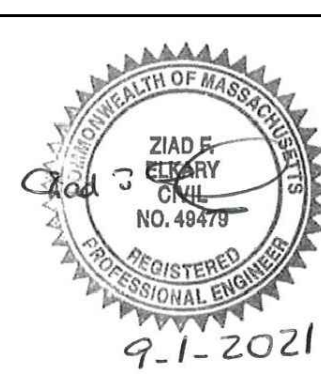


NOTES:

- CHECK VALVE BODY AND BONNET SHALL BE COATED WITH FUSION-BONDED EPOXY COATING IN COMPLIANCE WITH ANSI/AWWA C550

CHECK VALVE STRUCTURE DETAIL

SCALE: N.T.S.



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Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

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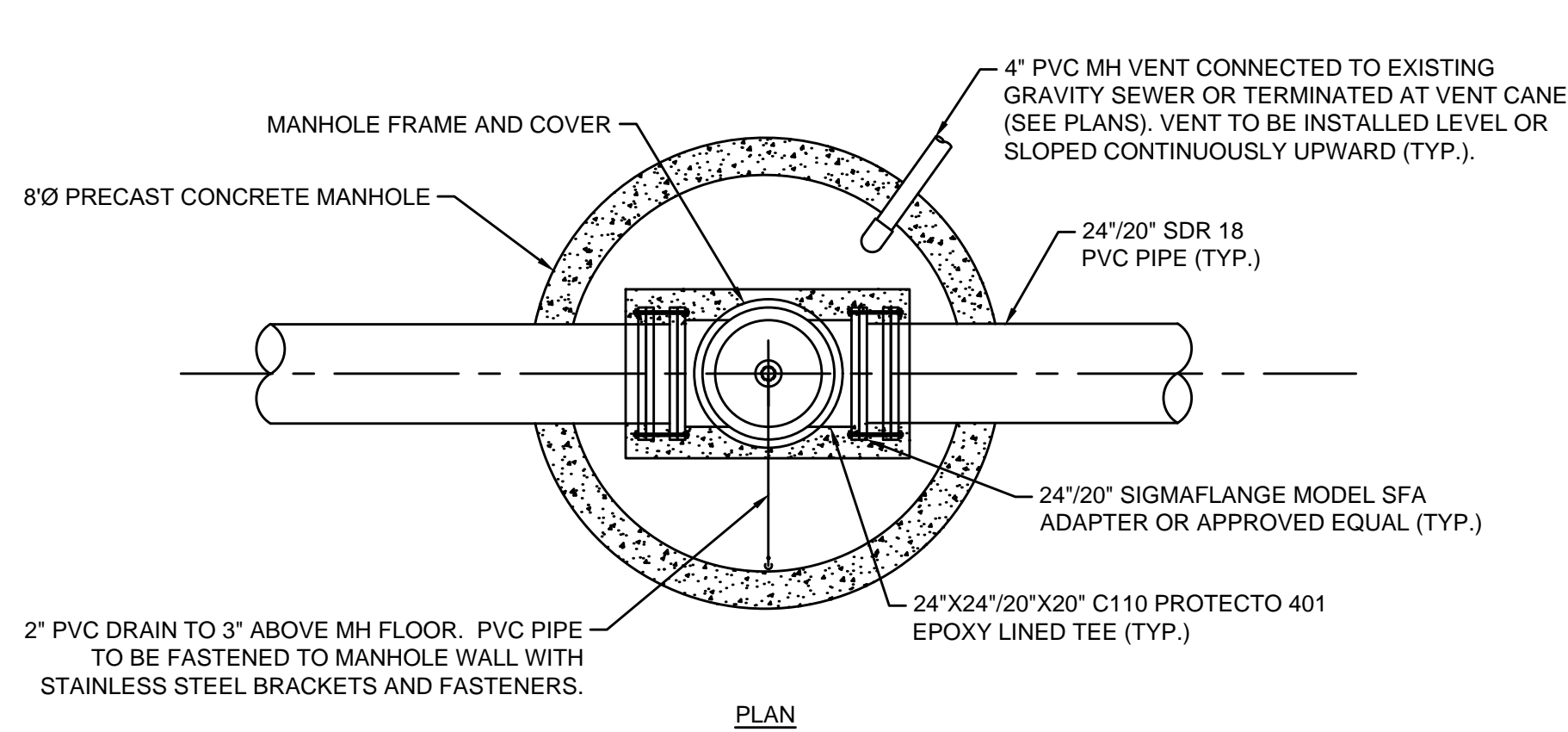
**SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA**

SEWER FORCE MAIN DETAILS II

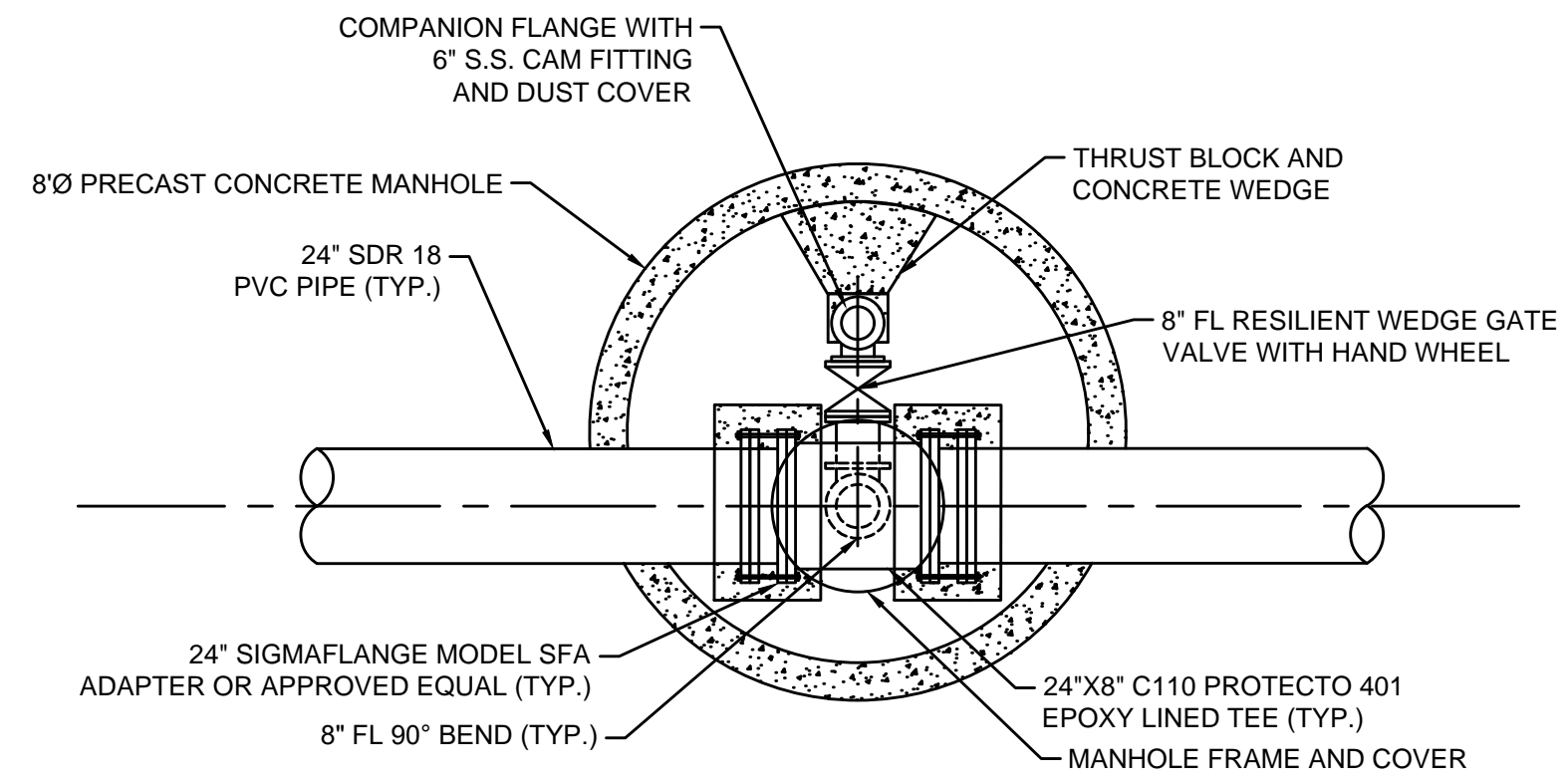
FOR CONSTRUCTION
Sheet No.

CD-2

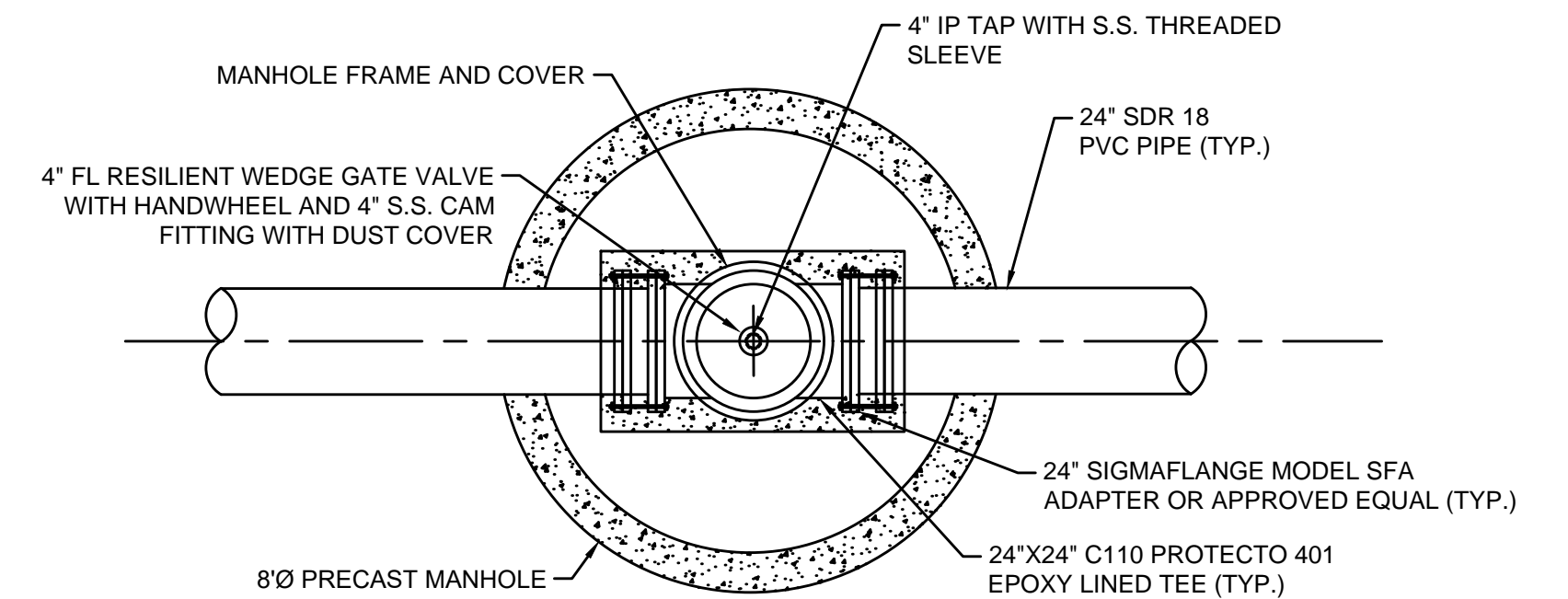
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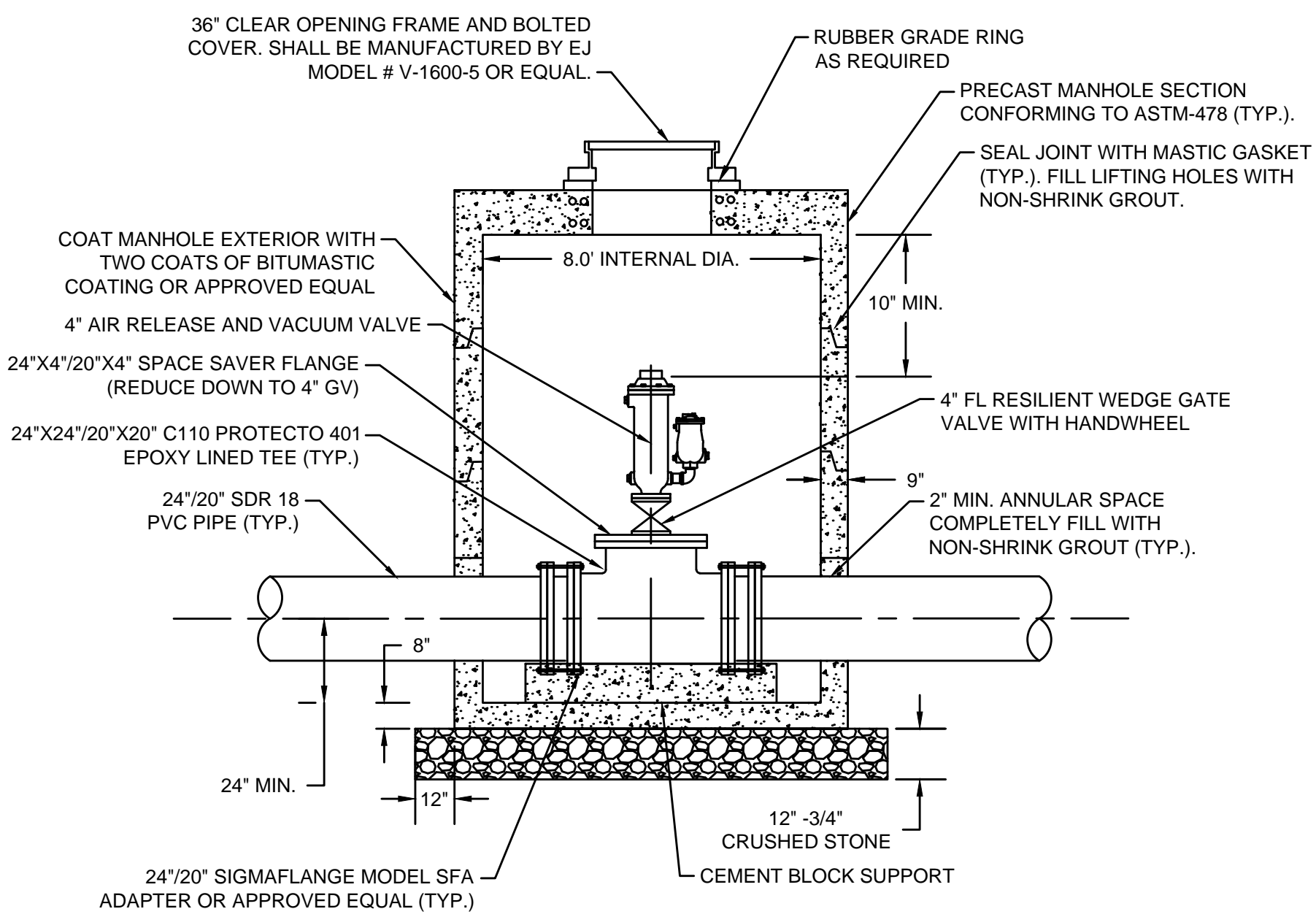
PLAN



PLAN

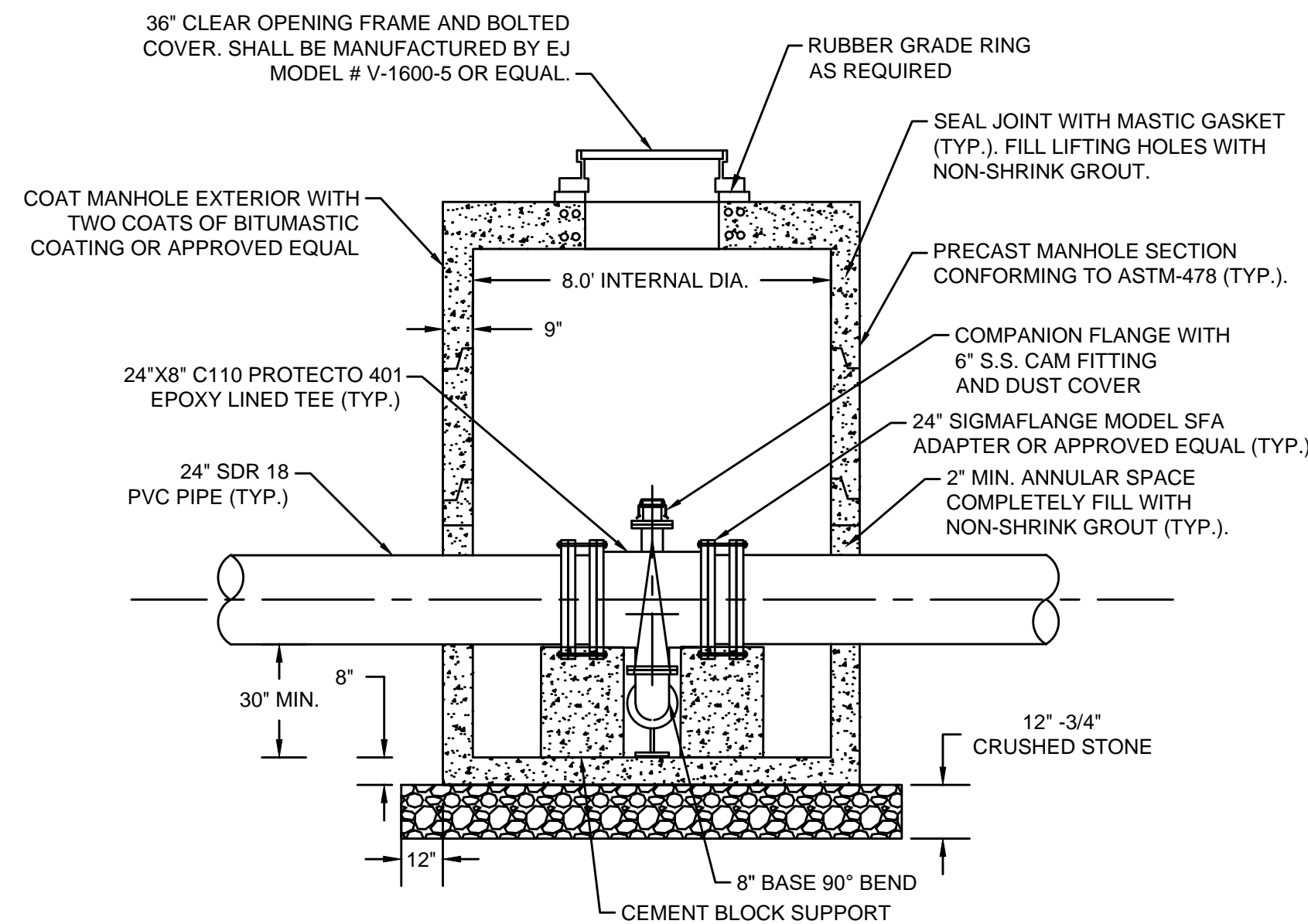


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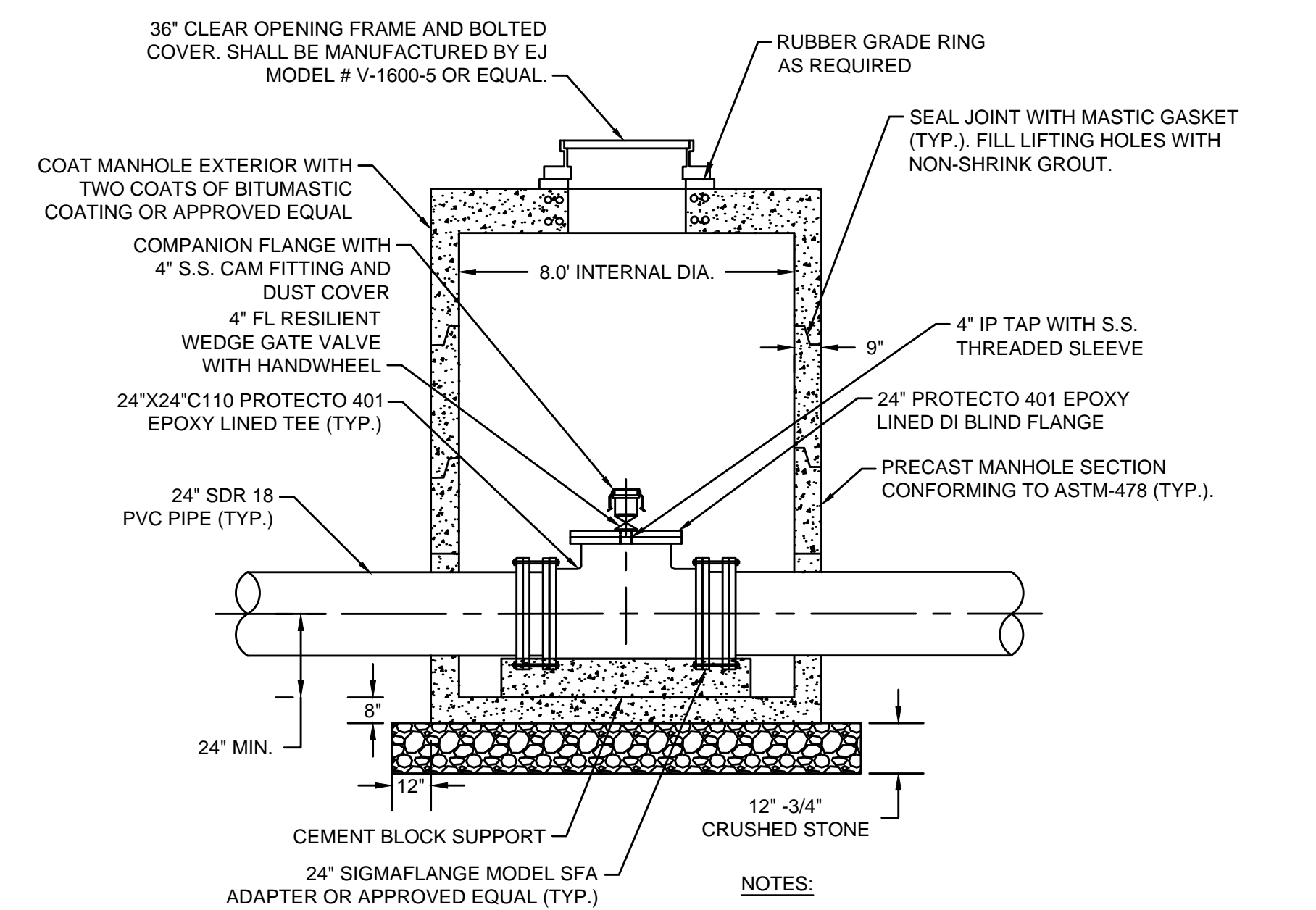
SECTION

8' DIAMETER COMBINATION A/V VALVE (ARV) MANHOLE
SCALE: N.T.S.



SECTION

8' DIAMETER BLOW OFF/CLEAN OUT (BO-CO) MANHOLE
SCALE: N.T.S.



SECTION

8' DIAMETER INTERMEDIATE ACCESS POINT MANHOLE (IAMH)
SCALE: N.T.S.

- NOTES:
1. IAMH-6 AND IAMH-7 ARE TO BE EQUIPPED WITH A 2" AIR RELEASE AND VACUUM RELIEF VALVE



ENVIRONMENTAL PARTNERS
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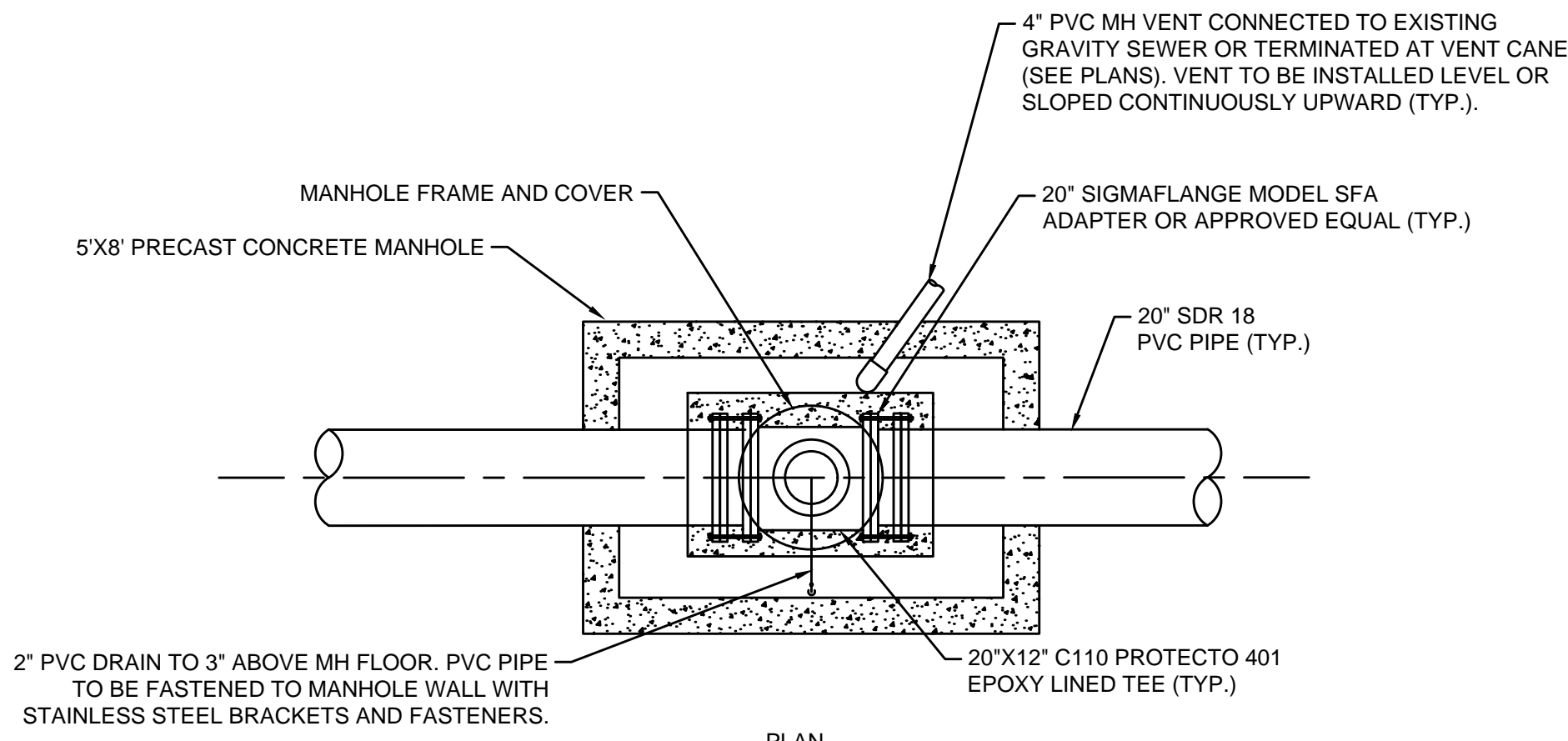
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

SEWER FORCE MAIN DETAILS III

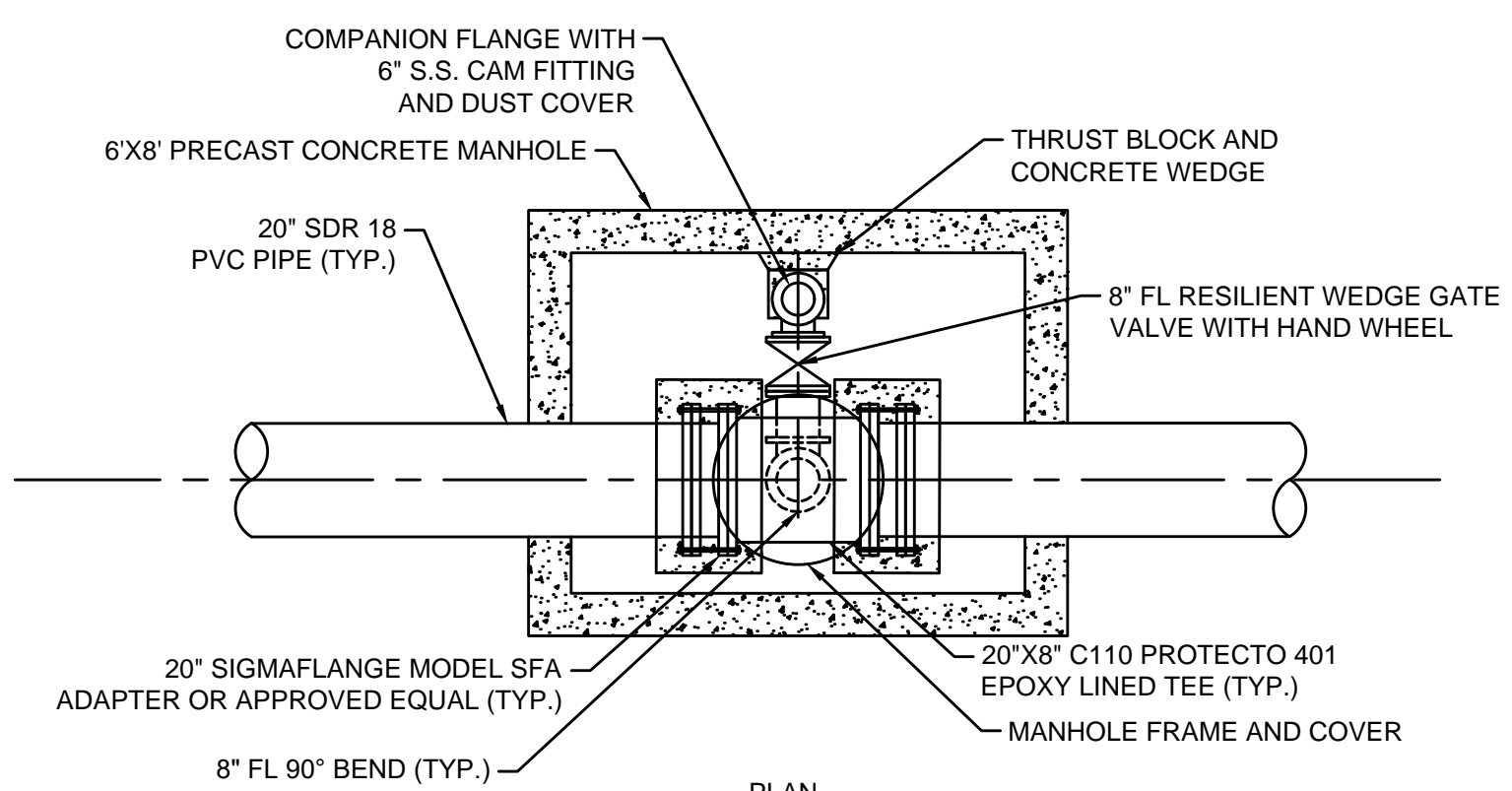
FOR CONSTRUCTION

Sheet No.

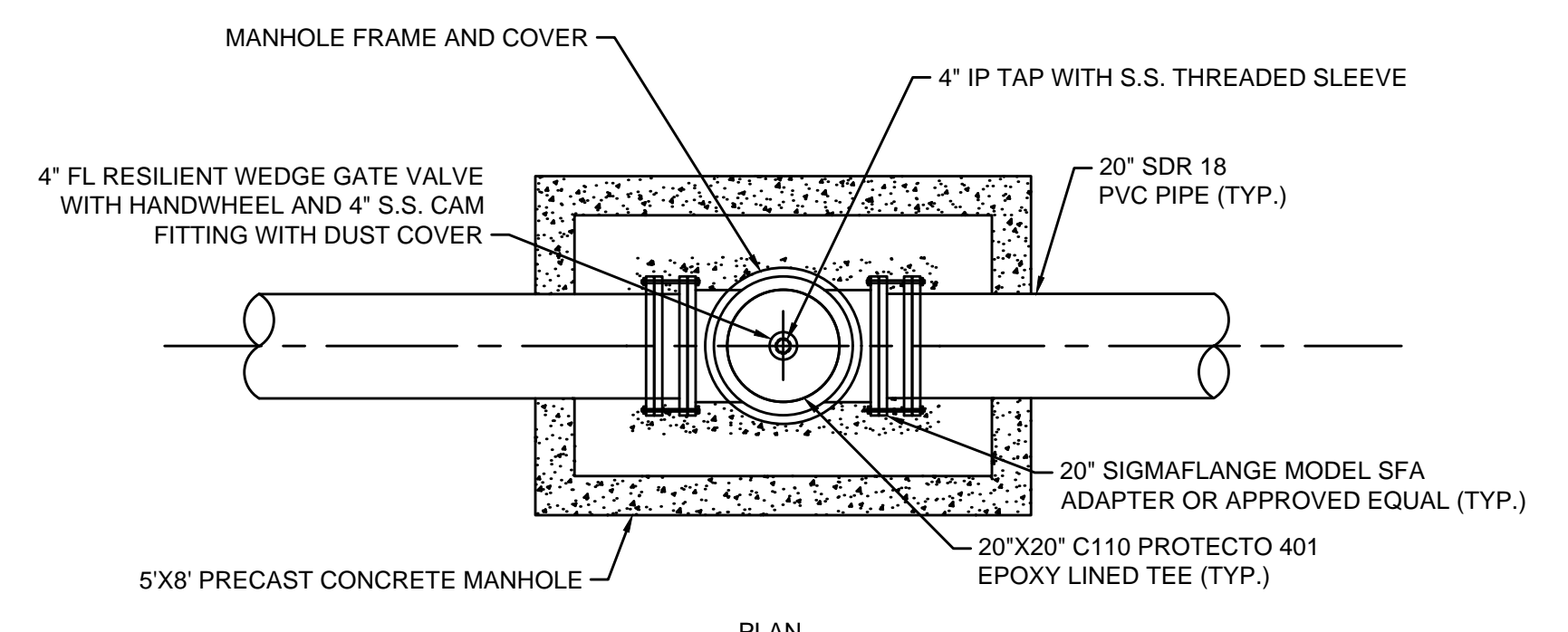
CD-3



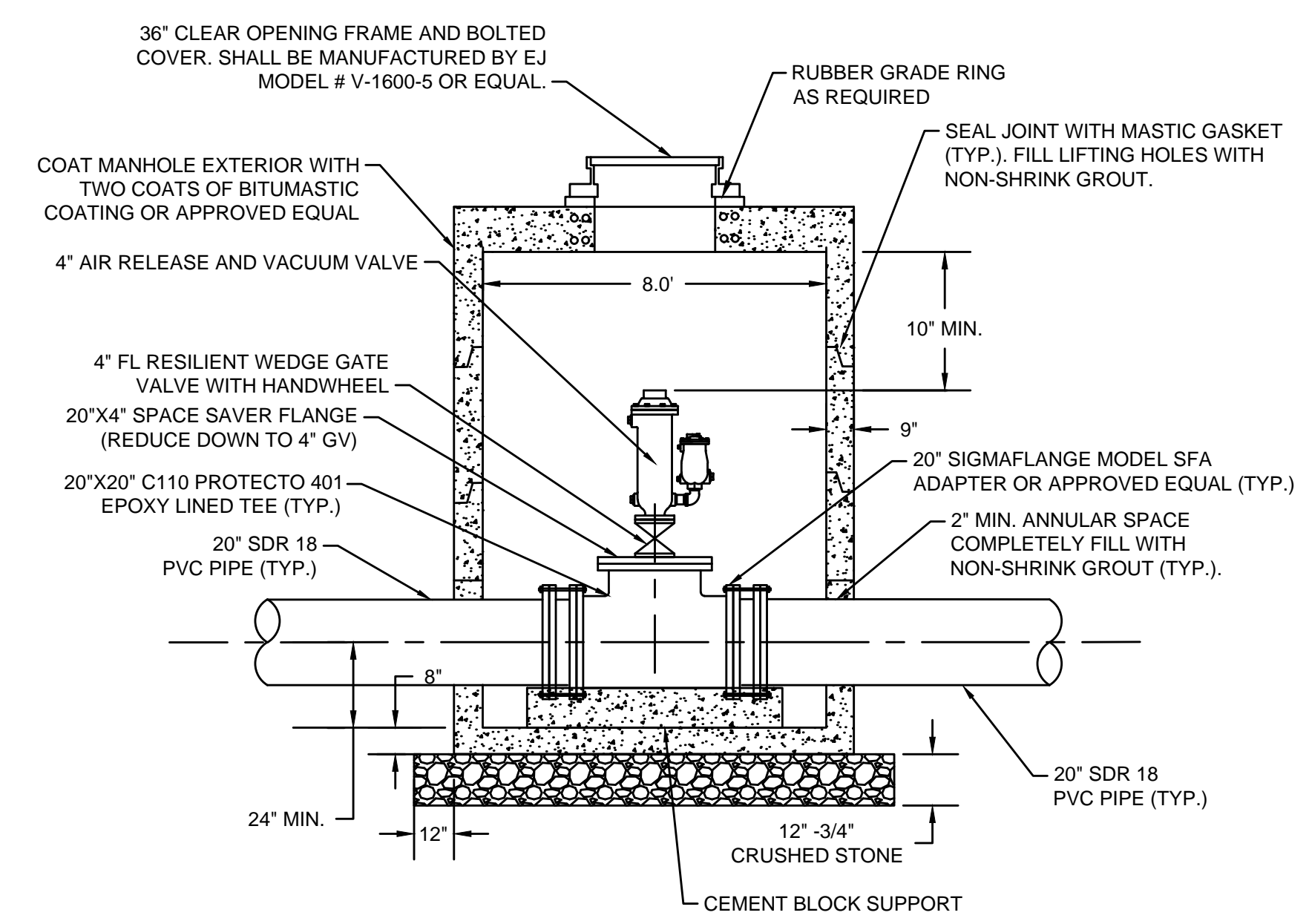
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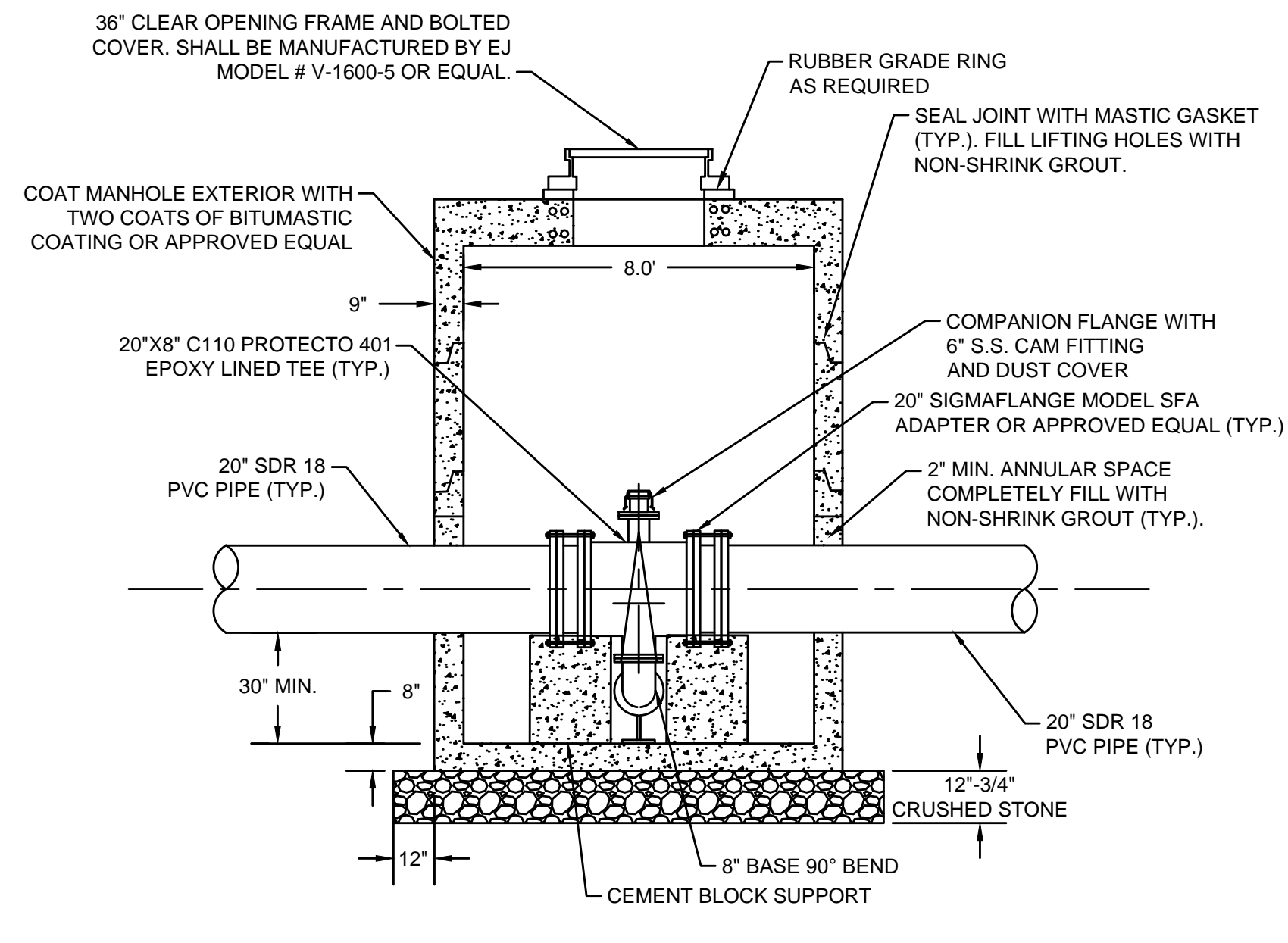


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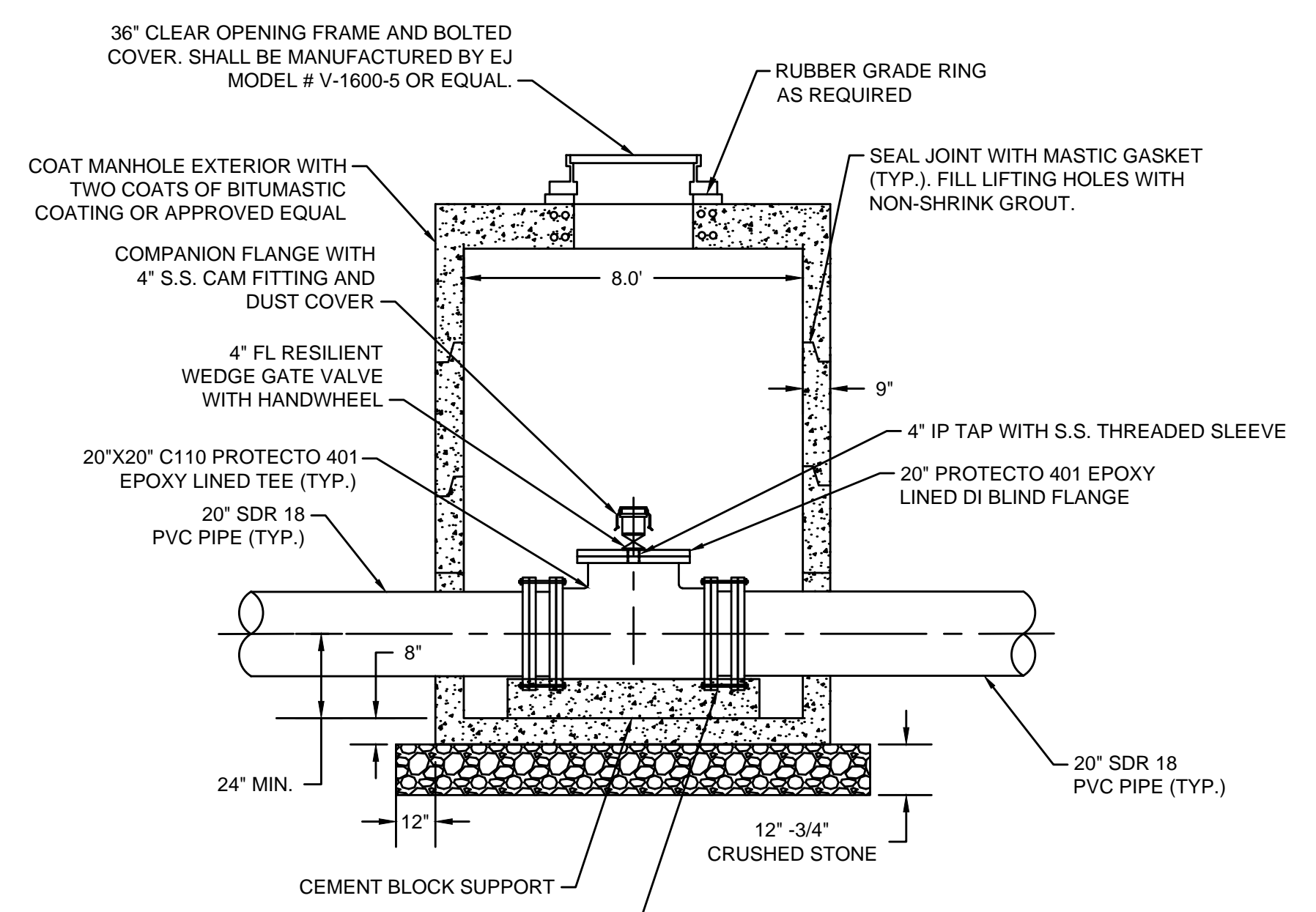
SECTION

5' X 8' COMBINATION A/V VALVE (ARV) MANHOLE
SCALE: N.T.S.



SECTION

6' X 8' BLOW OFF/CLEAN OUT (BO-CO) MANHOLE
SCALE: N.T.S.

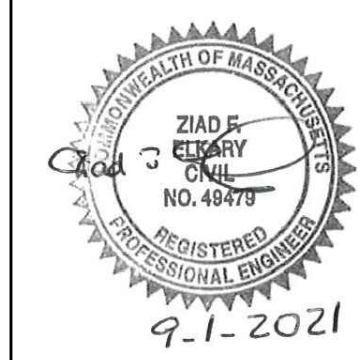


SECTION

5' X 8' INTERMEDIATE ACCESS POINT MANHOLE (IAMH)
SCALE: N.T.S.



ENVIRONMENTAL PARTNERS
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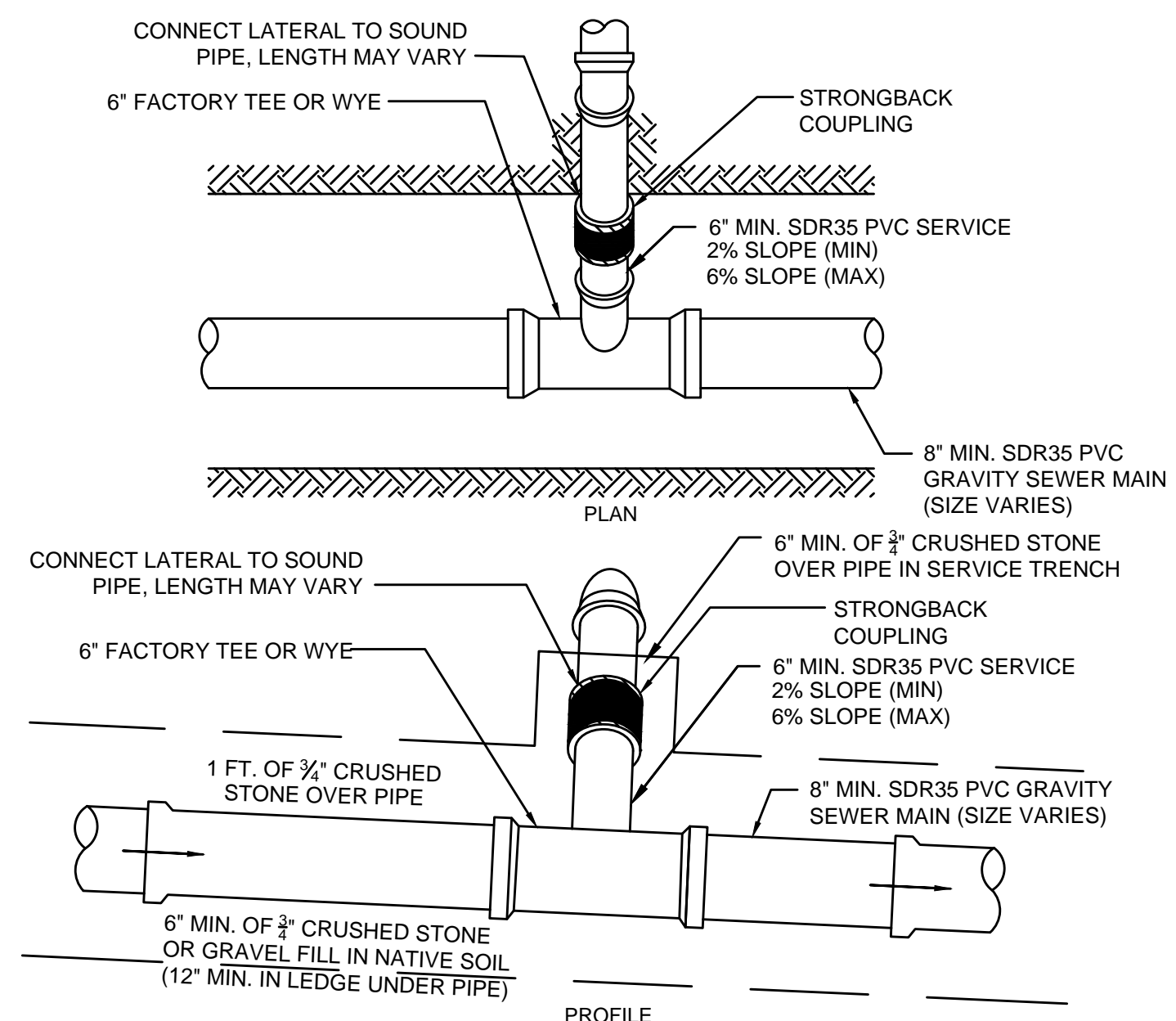
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

SEWER FORCE MAIN DETAILS IV

FOR CONSTRUCTION
Sheet No.

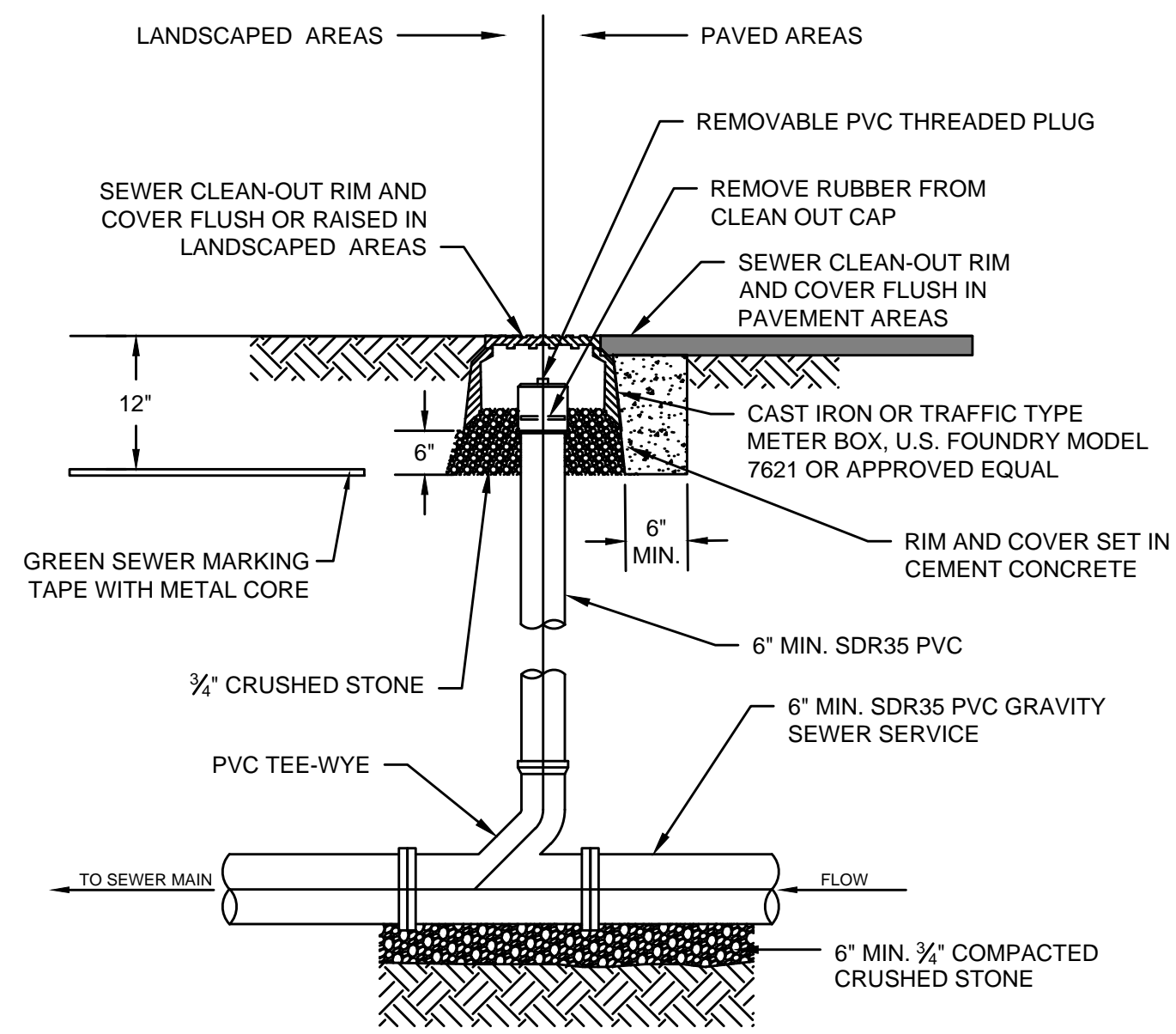
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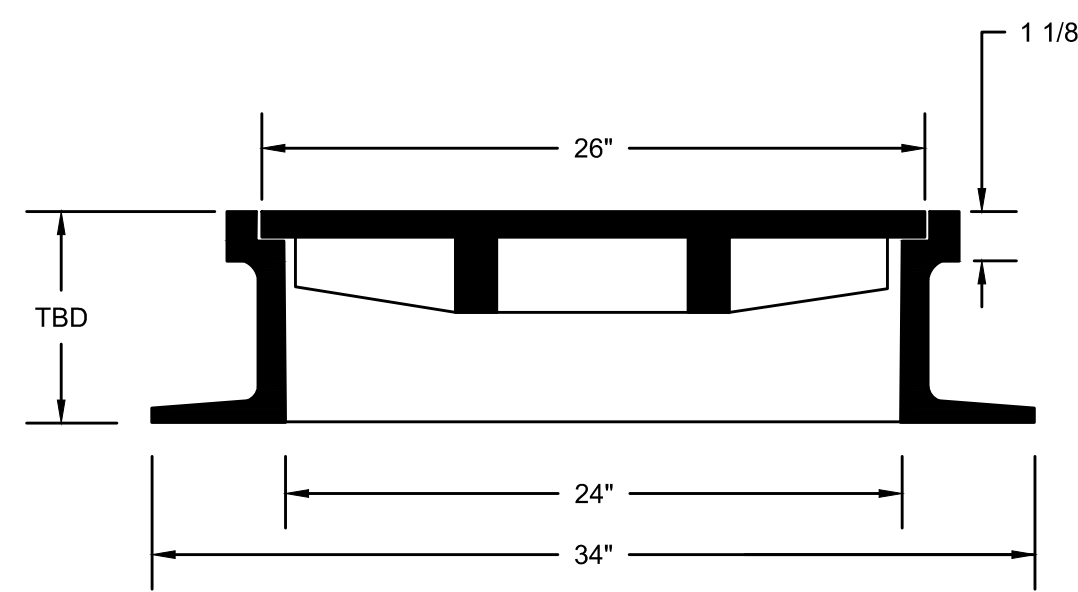
- EPR (PIPE AND TAP CONNECTION) NOTES:**
1. TEE OR WYE SHALL BE INSTALLED BETWEEN 0 TO 60 DEGREES AS NEEDED TO MEET THE EXISTING PRIVATE SANITARY LATERAL. WYES SHALL BE ORIENTED TO POINT TOWARDS THE DIRECTION OF MAIN LINE FLOW.
 2. THE DIMENSIONS SHOWN ON THIS DRAWING ARE ONLY INTENDED TO DEFINE THE LIMITS FOR BACKFILL MATERIAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO "LAY BACK" THE TRENCH WALLS TO WHATEVER FLATNESS OF SLOPE IS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS.
 3. SEE TRENCH DETAILS FOR BEDDING AND BACKFILL REQUIREMENTS.
 4. FLEXIBLE PIPE COUPLINGS SHALL BE STRONGBACK COUPLINGS.
 5. ALL SEWER SERVICES SHALL BE REPLACED TO THE PROPERTY LINE AND CONNECTED TO THE EXISTING SEWER SERVICE.
 6. ALL SEWER SERVICES SHALL HAVE CLEANOUTS REPLACED IN THE EXISTING LOCATIONS.

TYPICAL SEWER SERVICE CONNECTION
SCALE: N.T.S.



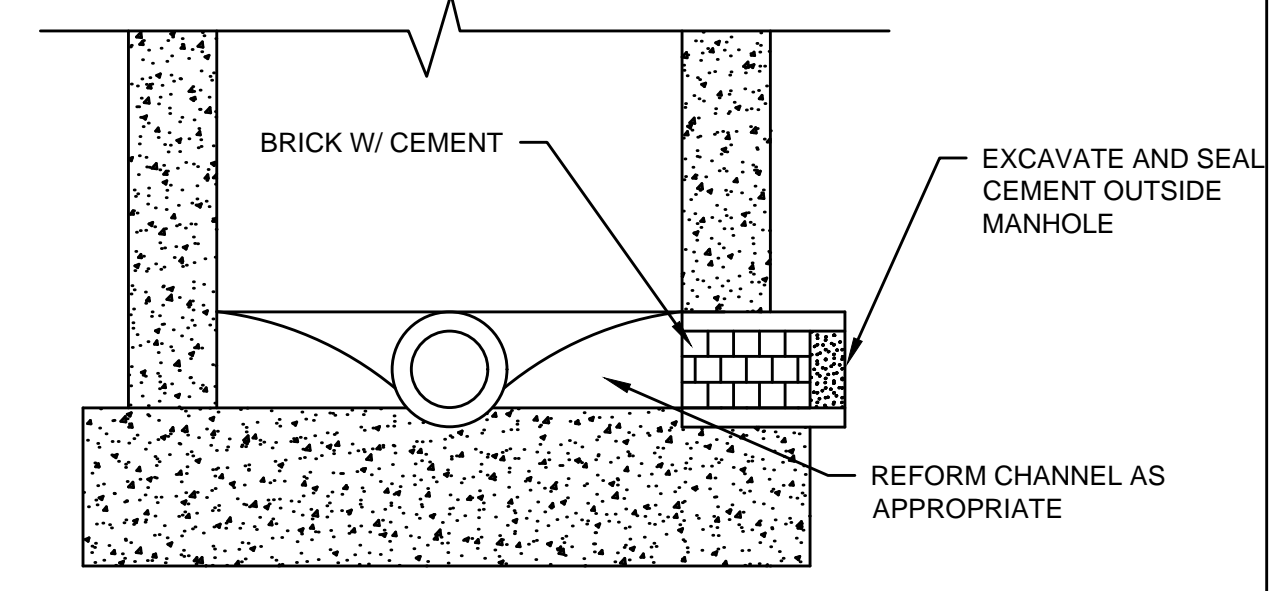
- NOTES:**
1. CLEAN OUT SHALL BE ACCESSIBLE AT ALL TIMES.
 2. 6" MIN. LAYER OF 3/4" CRUSHED STONE 12" IN LEDGE.

SEWER LATERAL CLEANOUT
SCALE: N.T.S.



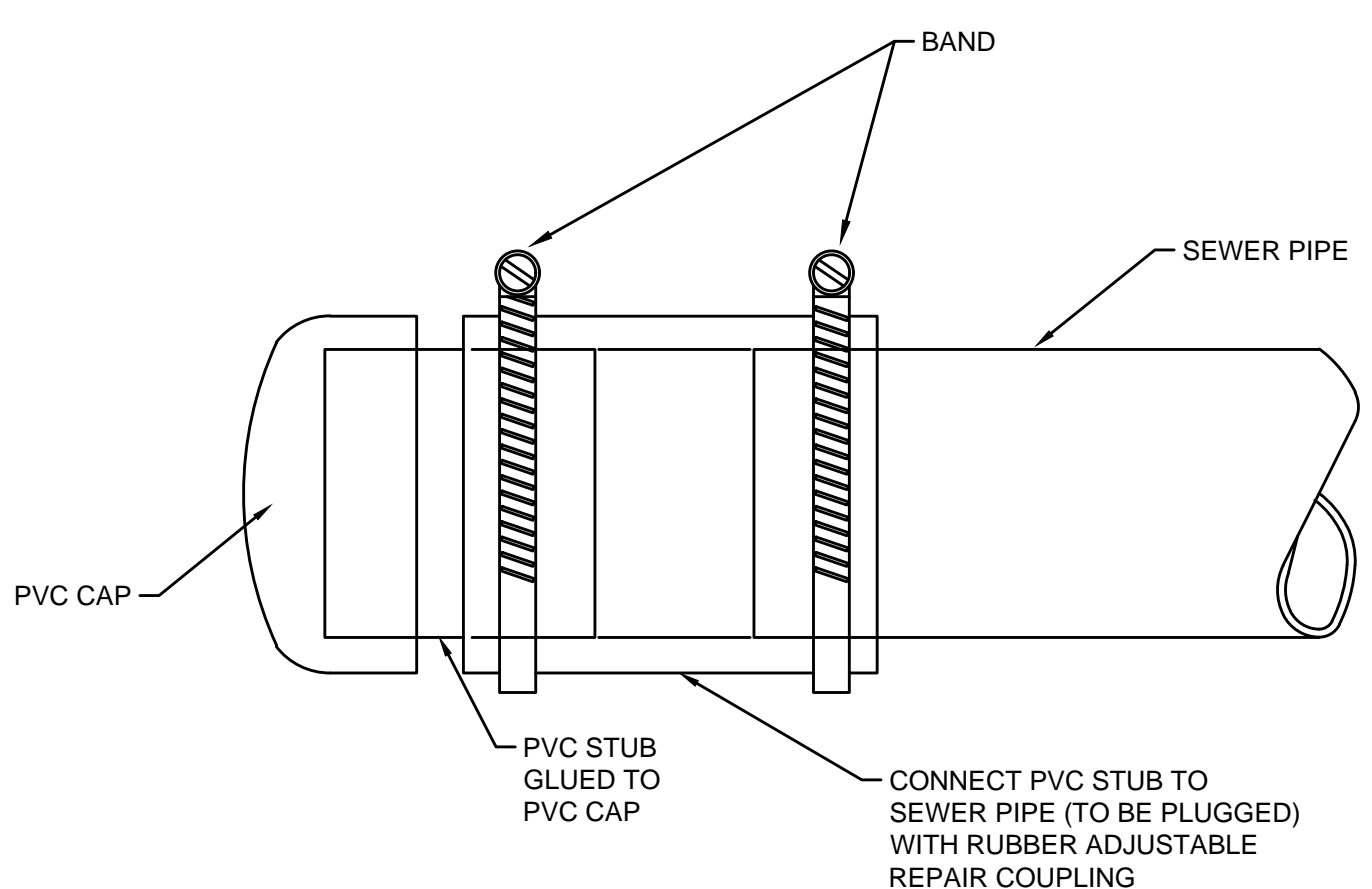
- NOTES:**
1. FRAME AND COVER SHALL BE HEAVY DUTY, 24 INCH DIAMETER, MARBLEHEAD PATTERN AS MANUFACTURED BY ej OR APPROVED EQUAL.
 2. EACH COVER SHALL READ SEWER IN 3" LETTERING.
 3. FRAME AND COVER SHALL BE SET IN FULL BED OF MORTAR.
 4. FRAME HEIGHT TO BE DETERMINED BY CONTRACTOR.
 5. EACH FRAME AND COVER SHALL HAVE A MINIMUM WEIGHT OF 450 POUNDS.

GRAVITY SEWER MANHOLE FRAME AND COVER
SCALE: N.T.S.



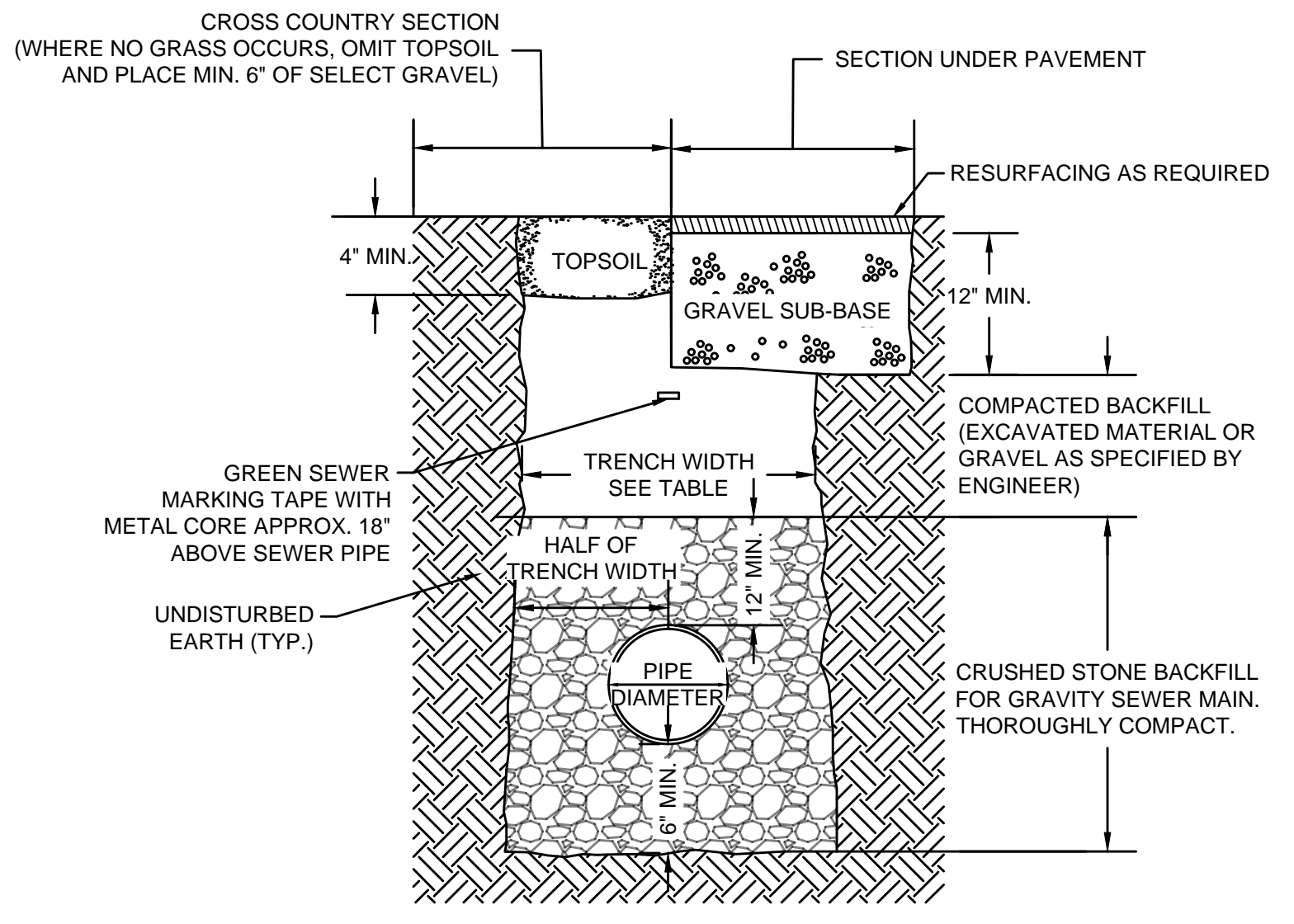
- NOTES:**
1. THIS DRAWING DEPICTS CONCRETE/CLAY PIPE.
 2. USE MECHANICAL PLUGS WHEN ABANDONING PLASTIC PIPES.

PLUG FOR ABANDONING SANITARY SEWER
SCALE: N.T.S.



- NOTES:**
1. USE MECHANICAL PLUGS WHEN ABANDONING PLASTIC PIPES.

PLUG FOR SANITARY SEWER
SCALE: N.T.S.

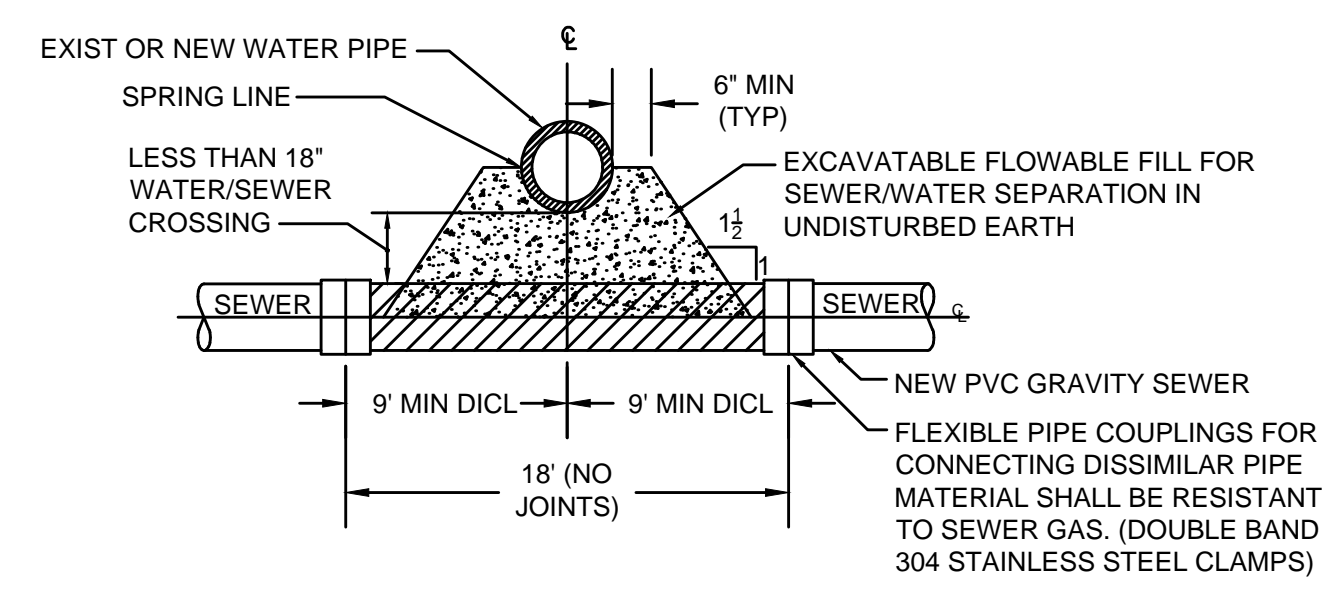


TRENCH WIDTH PAYMENT SCHEDULE

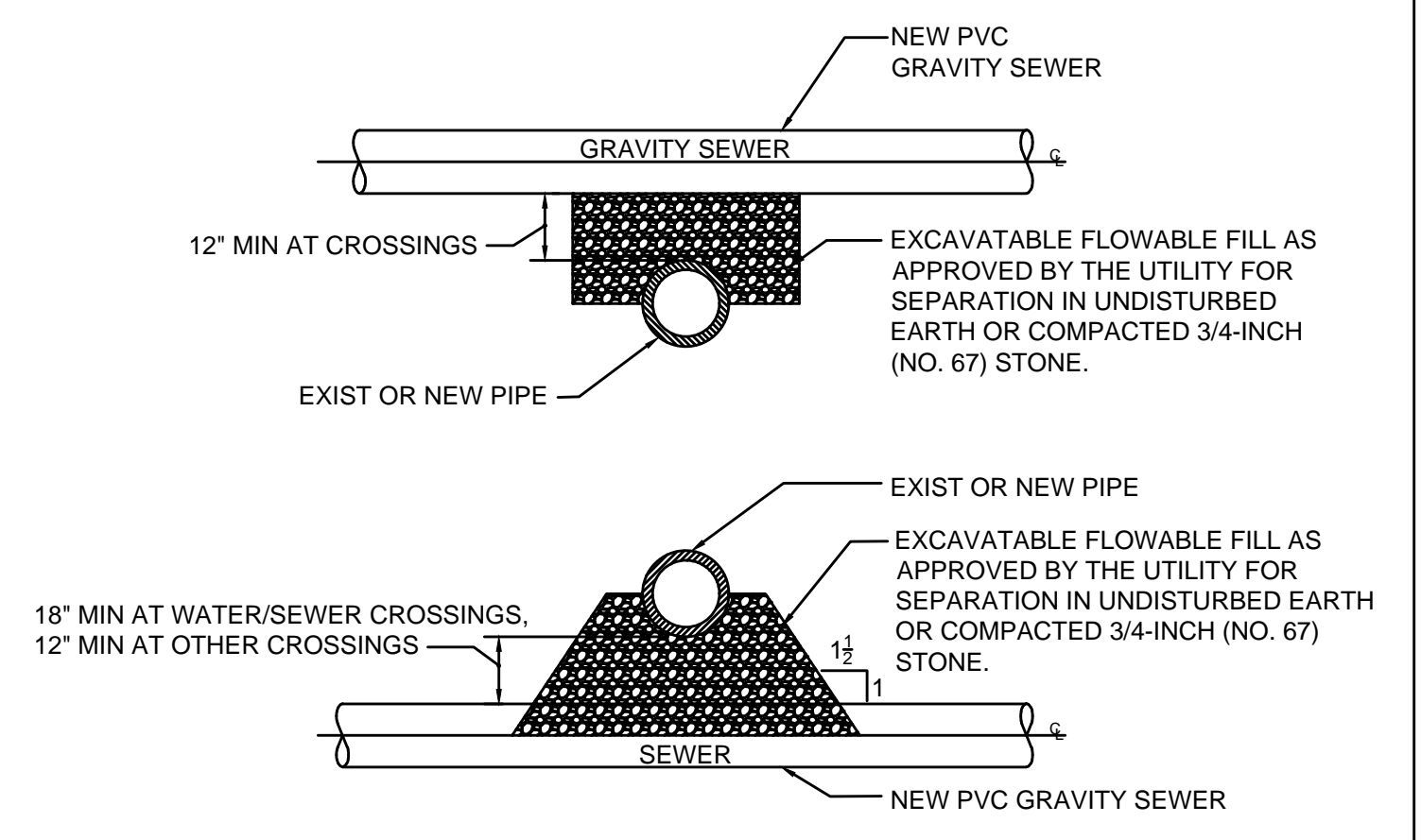
PIPE DIAMETER	TRENCH DEPTH		
	0 - 12'	12 - 20'	> 20'
UP TO 24"	5'	7'	10'
> 24"	D+3'	D+5'	D+8'

- NOTES:**
1. TRENCH PAYMENT WIDTH FOR MULTIPLE PIPES IN THE SAME TRENCH WILL BE INCREASED BY LARGER PIPE DIAMETER PLUS A MAXIMUM OF 1'-0" HORIZONTAL SEPARATION AS MEASURED BETWEEN EACH PIPE.
 2. D = PIPE DIAMETER (IN FEET). FOR EXAMPLE, IF PIPE IS 30"Ø AND LESS THAN 12' DEEP, THEN TRENCH WIDTH IS 2.5'+3'=5.5'

TYPICAL GRAVITY SEWER TRENCH
SCALE: N.T.S.



VERTICAL SEPARATION LESS THAN 18" BETWEEN WATER AND SEWER
SCALE: N.T.S.



VERTICAL SEPARATION GREATER THAN 18" BETWEEN PIPES
SCALE: N.T.S.



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SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

GRAVITY SEWER DETAILS I

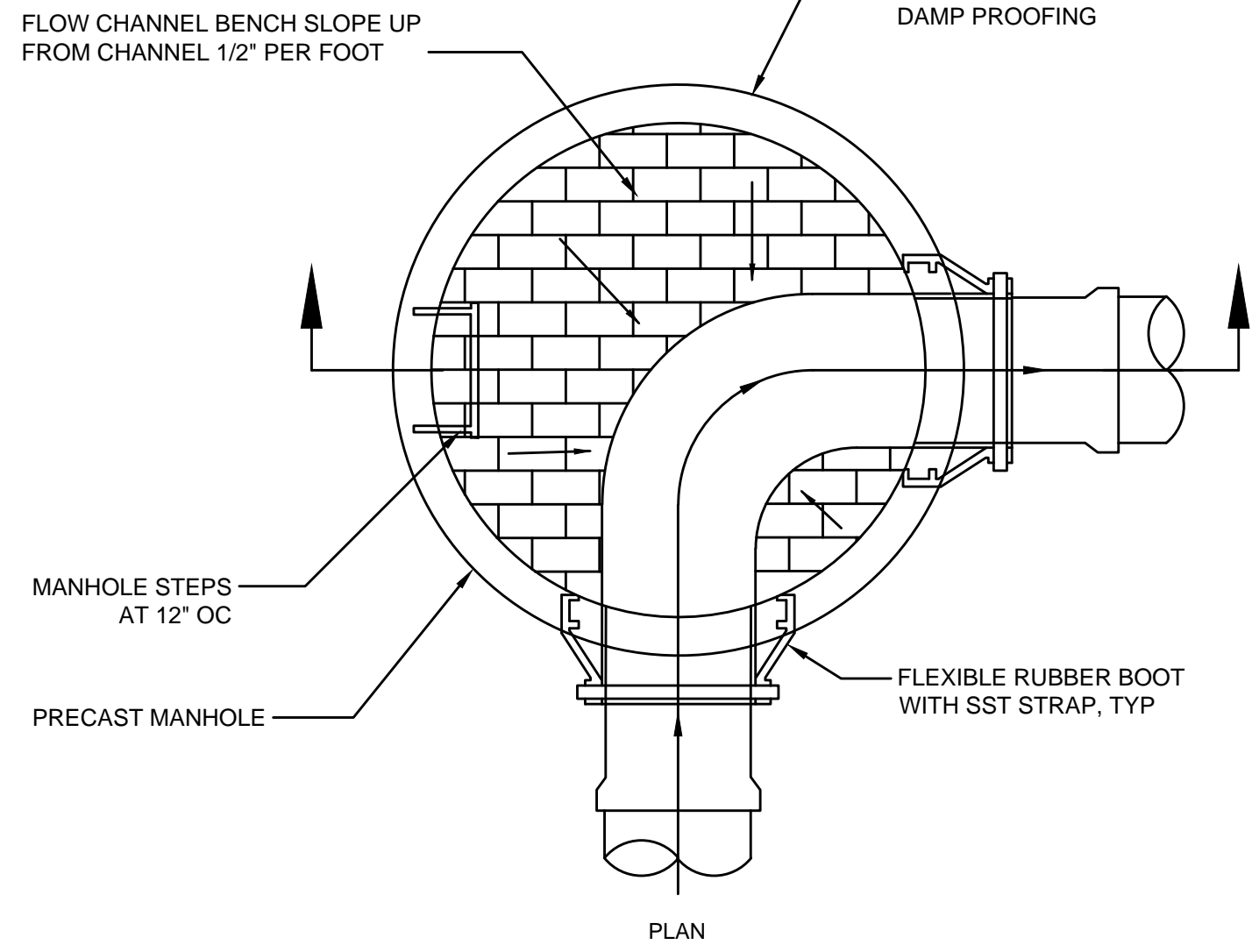
FOR CONSTRUCTION
Sheet No.

CD-5

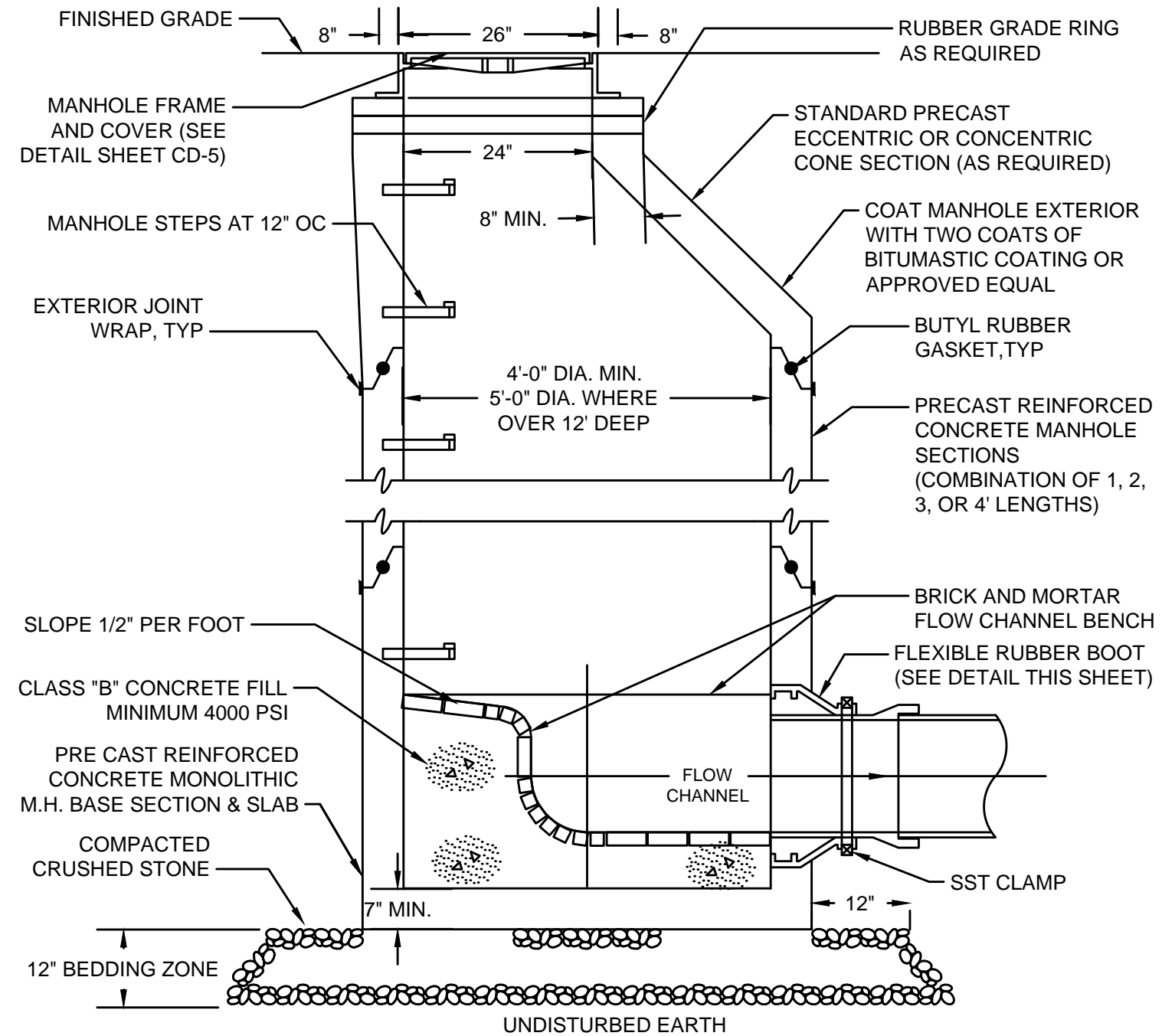
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MANHOLE SCHEDULE	
ALL MANHOLES SHALL BE 4-FOOT UNLESS OTHERWISE NOTED.	

MANHOLE WALL THICKNESS	
INTERIOR DIAMETER	MIN. WALL THICKNESS
4- FEET	5- INCHES
5- FEET	6- INCHES



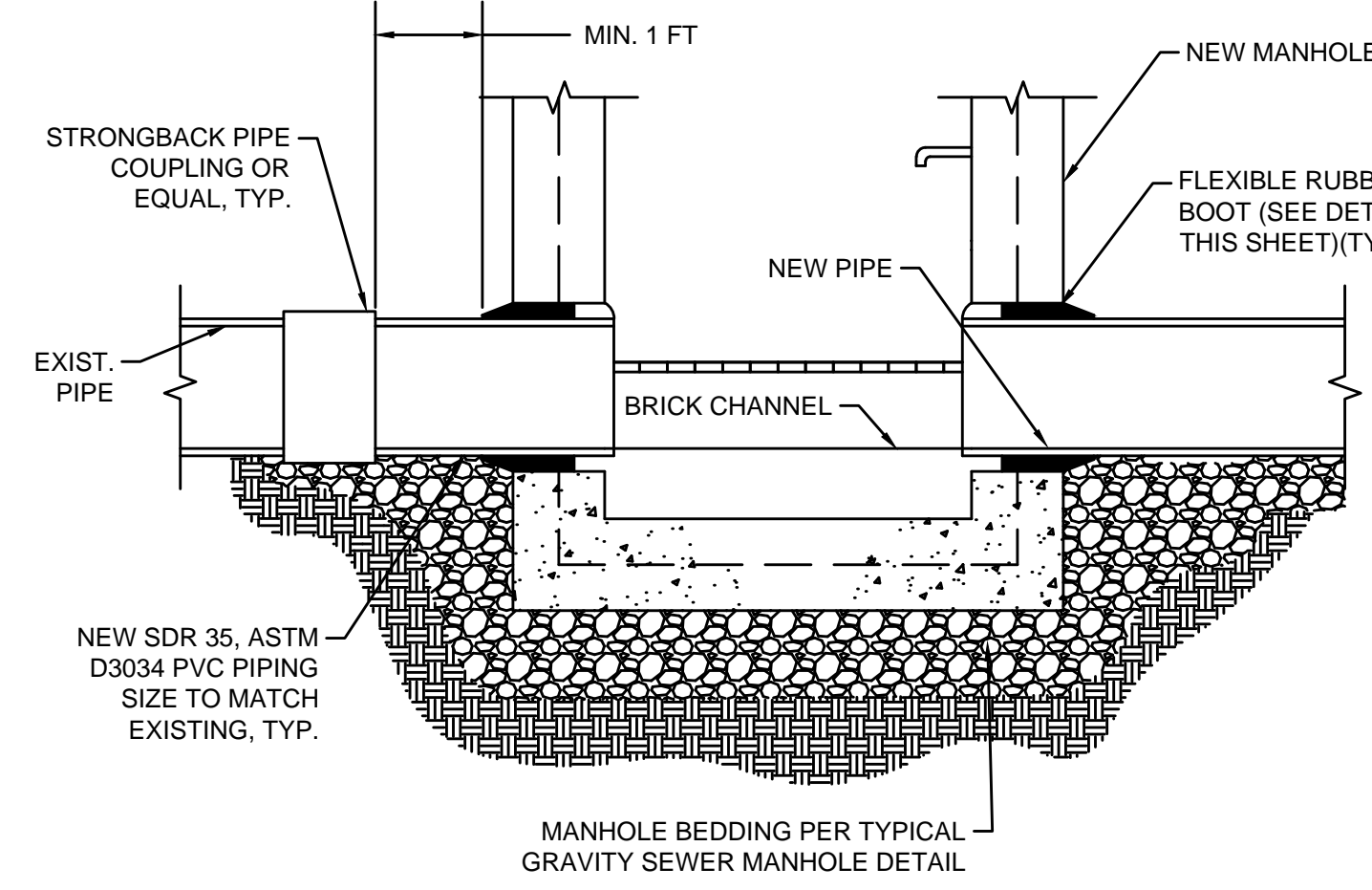
TYPICAL GRAVITY SEWER MANHOLE PLAN
SCALE: N.T.S.



TYPICAL GRAVITY SEWER MANHOLE SECTION
SCALE: N.T.S.

NOTES:

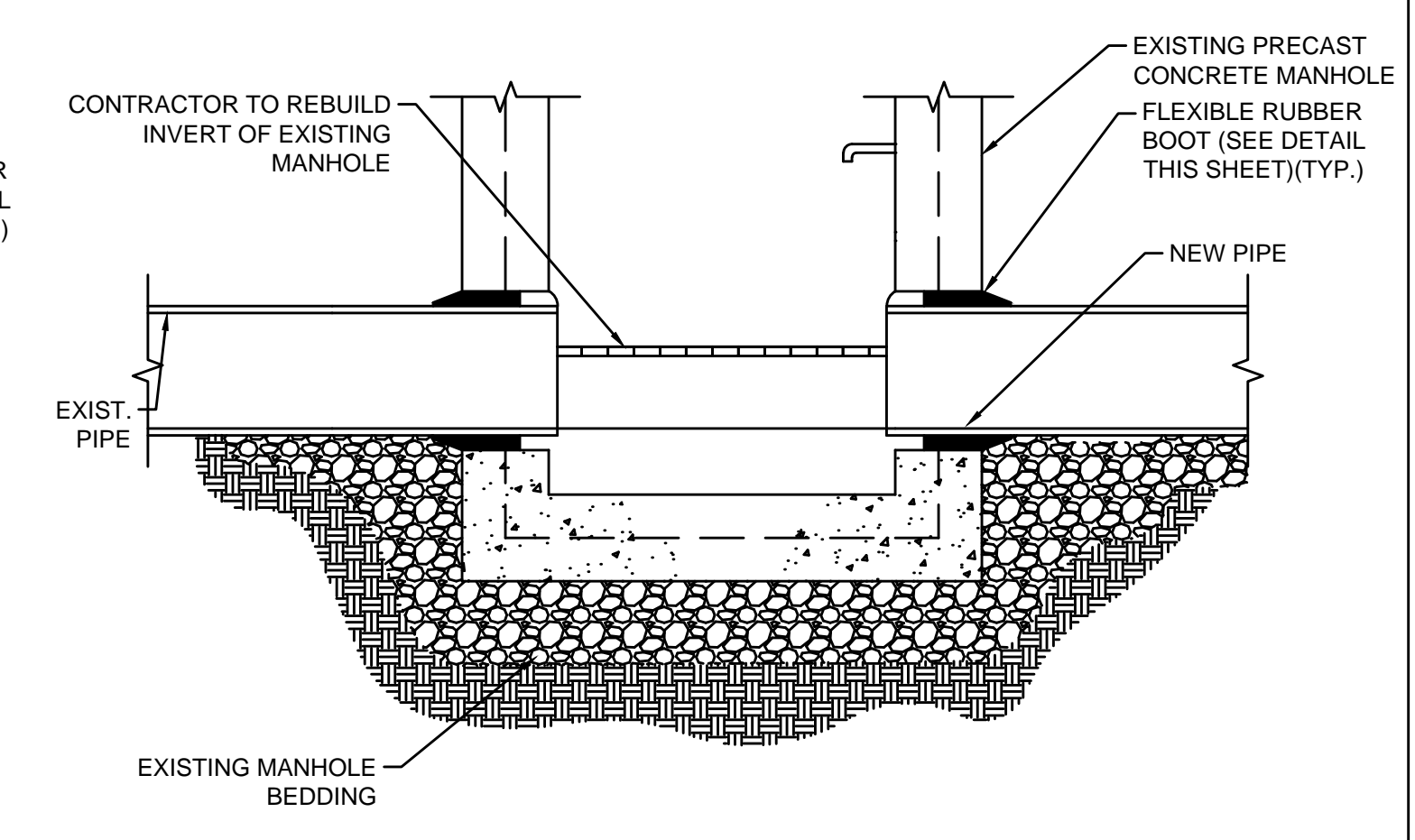
1. TYPICAL SANITARY MANHOLE TO BE 4 FEET IN DIAMETER.
2. 5'-0" DIAMETER FOR ALL MANHOLE DEPTHS GREATER THAN 12 FEET OR WHEN ORDERED BY THE ENGINEER.
3. INNER EDGE OF BRICK TABLE TO BE AT ELEVATION OF CROWN OF TOP OF PIPE.
4. DESIGN LOAD - HS20.
5. ALL INVERTS SHALL BE 4,000 PSI CEMENT CONCRETE IN VOID AREAS AND RED SEWER BRICK CONSTRUCTION.
6. INVERTS SHALL NOT BE BUILT ABOVE GRADE. ALL INVERTS SHALL BE BUILT IN PLACE AFTER ALL PIPES HAVE BEEN INSTALLED.



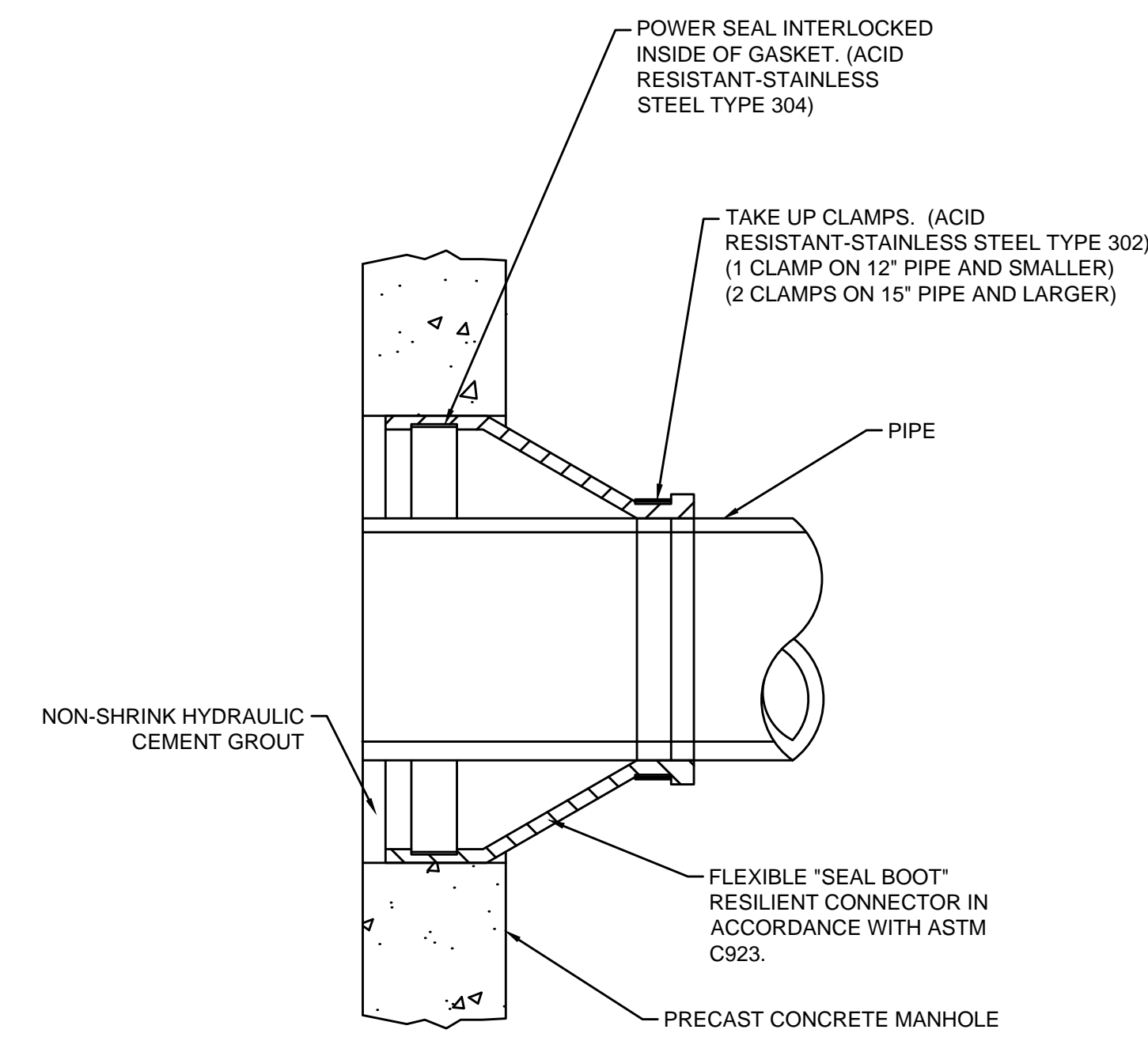
CONNECTION OF EXISTING PIPE TO NEW MANHOLE
SCALE: N.T.S.

NOTES:

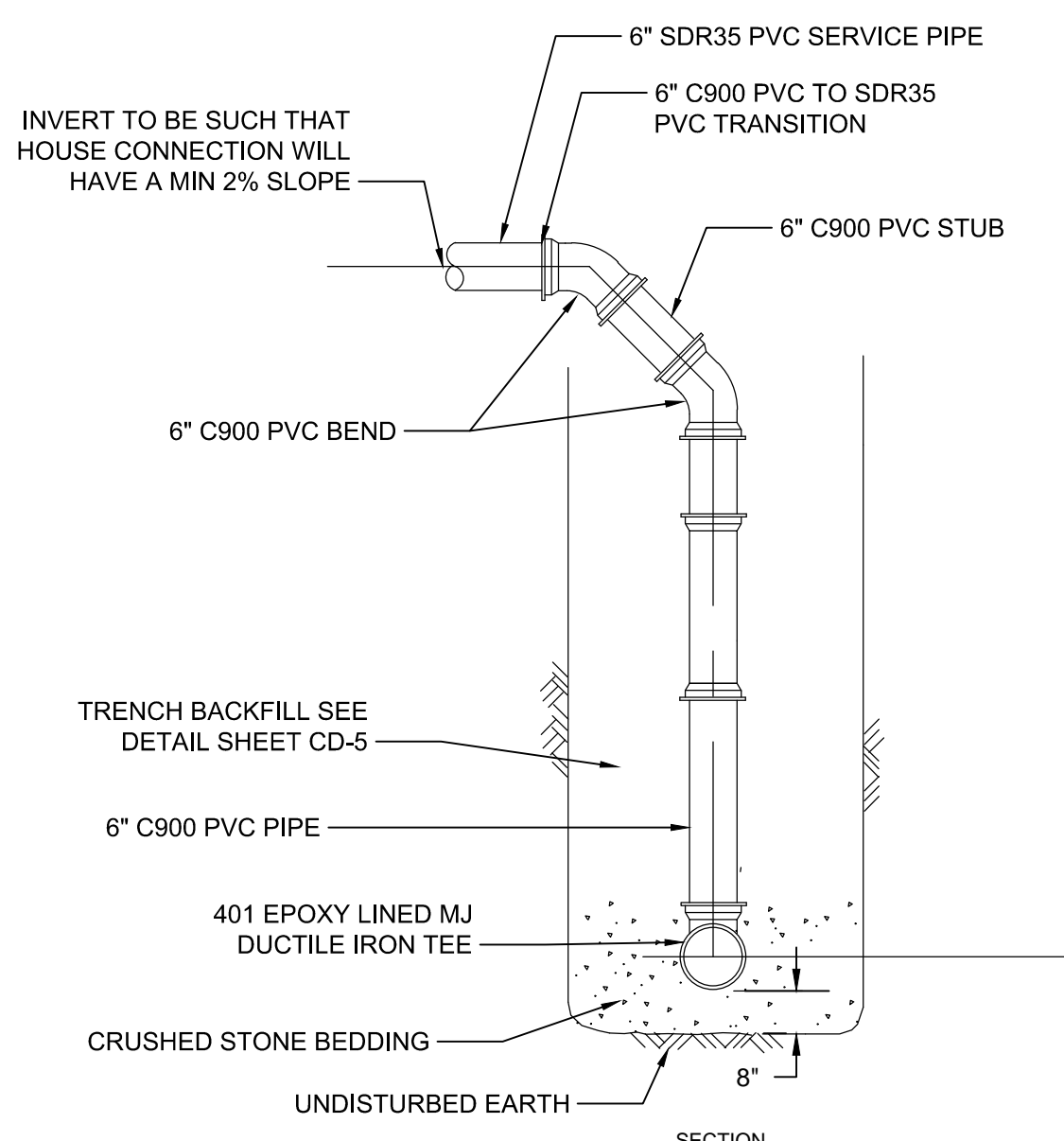
1. FLEXIBLE PIPE COUPLINGS FOR CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE RESISTANT TO SEWER GAS.



CONNECTION OF NEW PIPE TO EXISTING MANHOLE
SCALE: N.T.S.

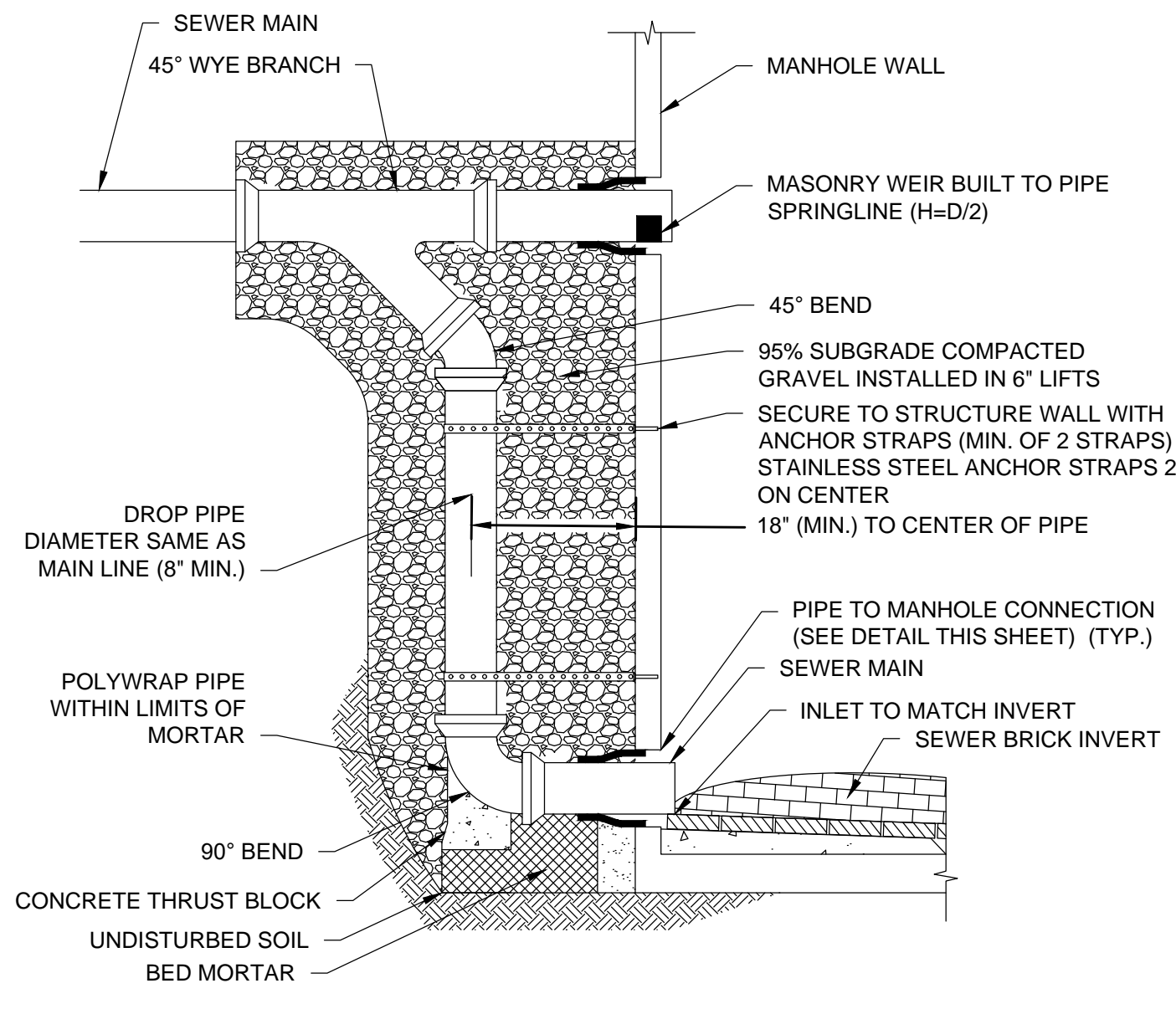


PIPE TO MANHOLE CONNECTION
SCALE: N.T.S.



PVC CHIMNEY DETAIL
SCALE: N.T.S.

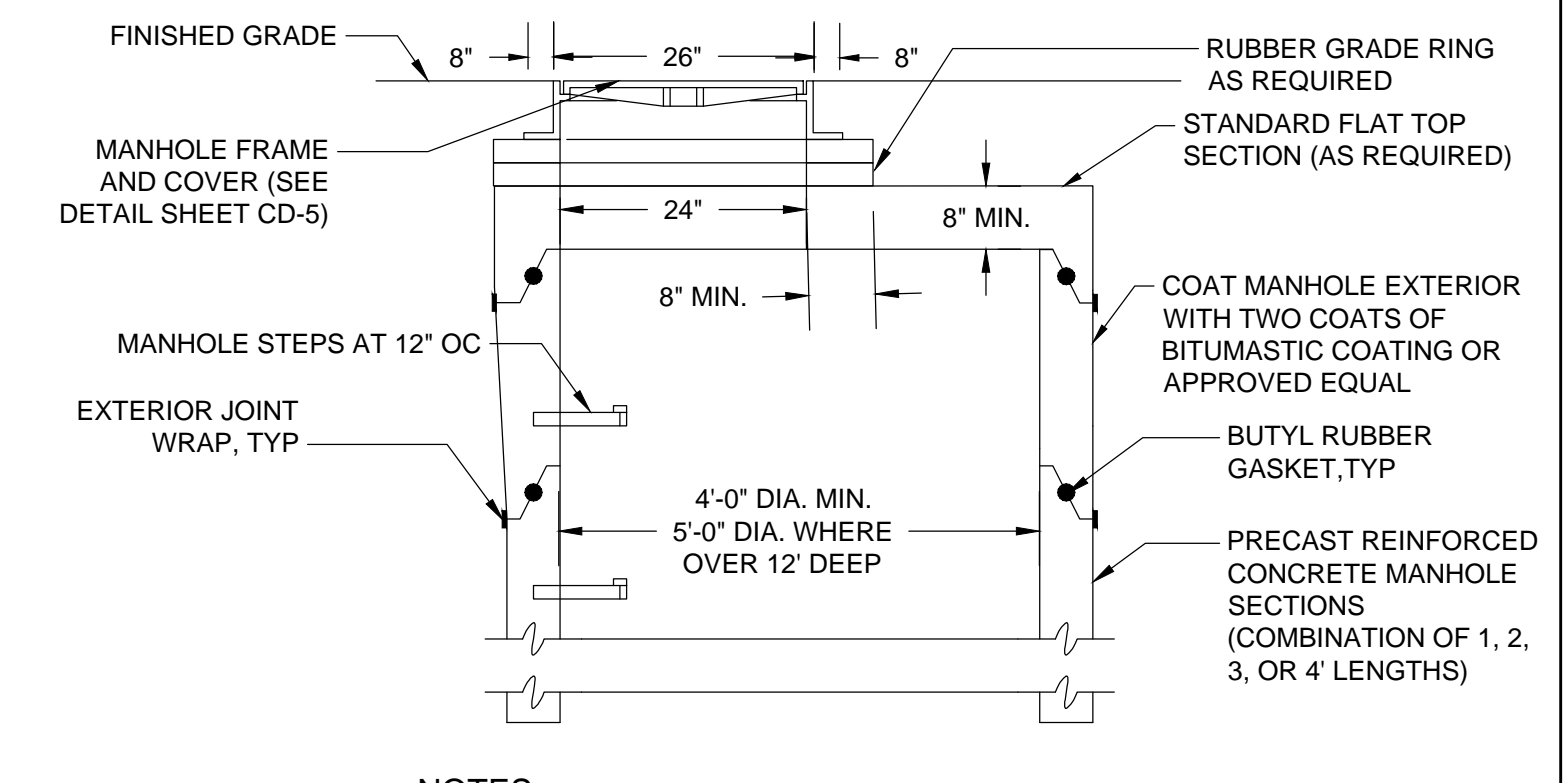
INVERT TO BE SUCH THAT HOUSE CONNECTION WILL HAVE A MIN 2% SLOPE



DROP SEWER MANHOLE DETAIL
SCALE: N.T.S.

NOTES:

1. DROP CONNECTION REQUIRED WHERE INLET PIPE IS 2 VERTICAL FEET ABOVE THE MANHOLE CHANNEL.



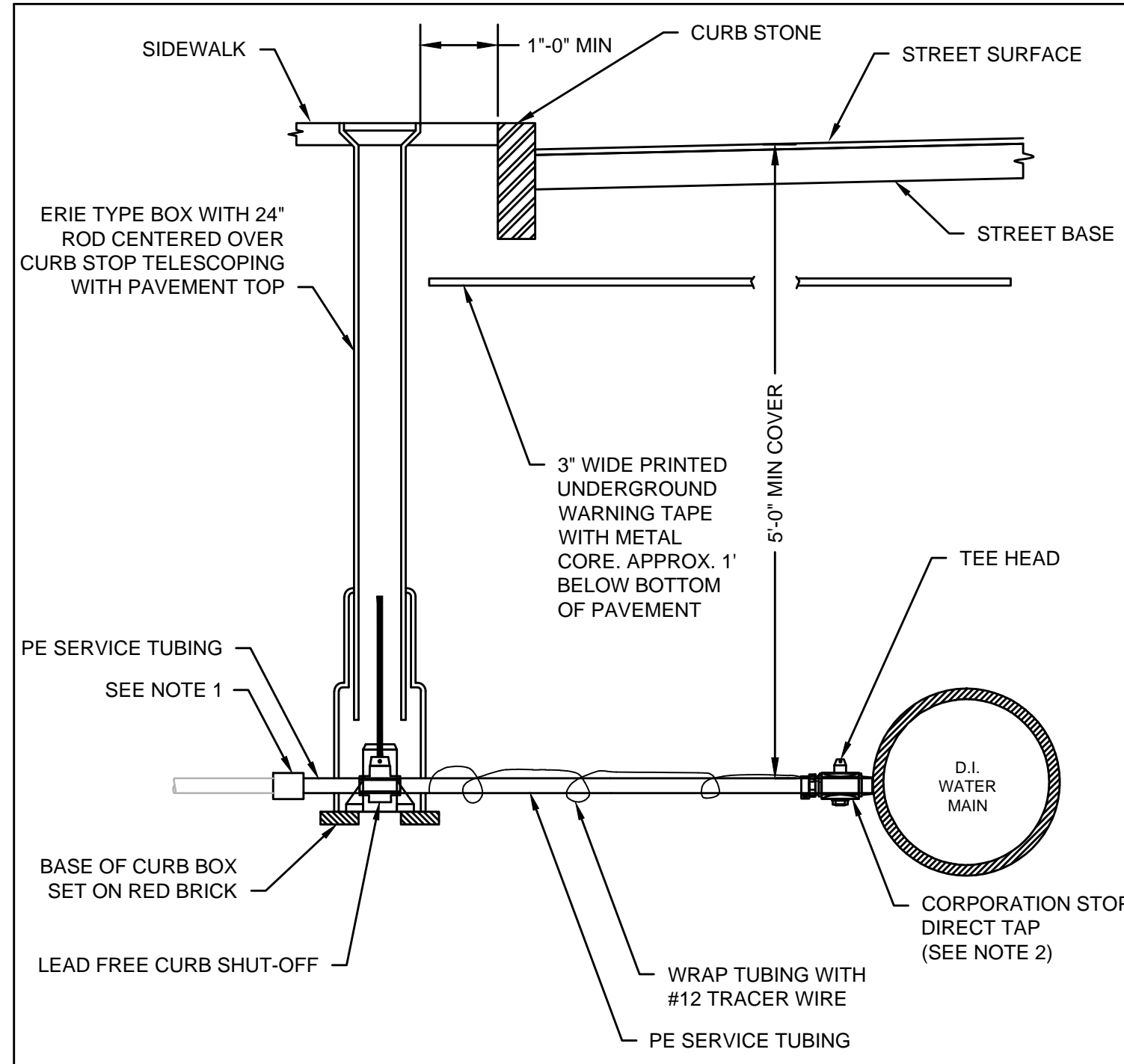
FLAT TOP SEWER MANHOLE AND COVER DETAIL
SCALE: N.T.S.

NOTES:

1. FLAT TOP SEWER MANHOLES TO BE INSTALLED AS DIRECTED BY THE TOWN/ENGINEER.

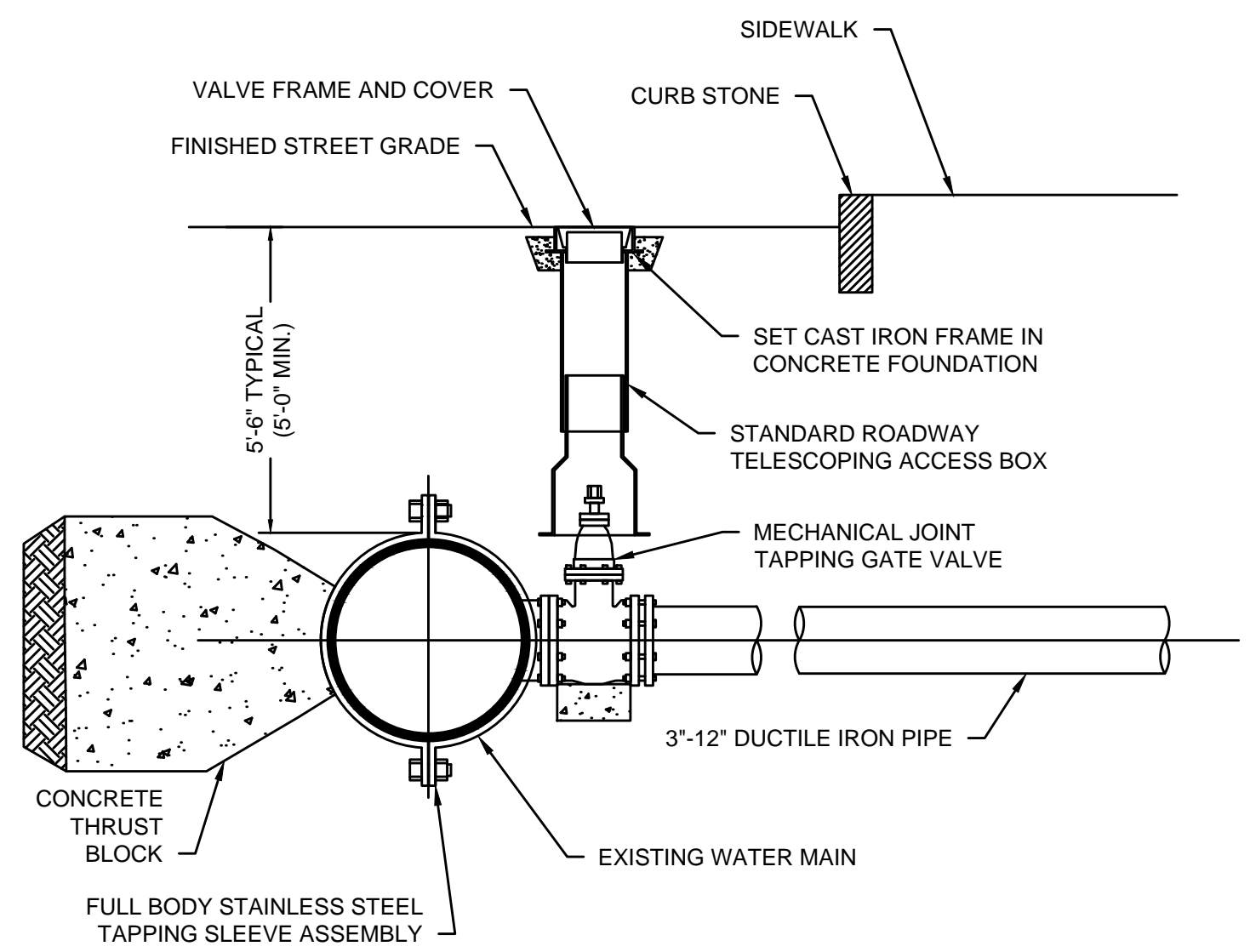
			Scale	AS NOTED		SEA STREET PUMP STATION FORCE MAIN NO.3 TOWN OF NANTUCKET, MA	FOR CONSTRUCTION Sheet No.									
			Date	SEPTEMBER 2021												
			Job No.	360-2001	THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING	GRAVITY SEWER DETAILS II	CD-6									
			Designed by	FJB												
			Drawn by	FJB												
			Checked by	RJR/PCM/RJA												
			Approved by	ZFK												
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MARK	DATE	DESCRIPTION														

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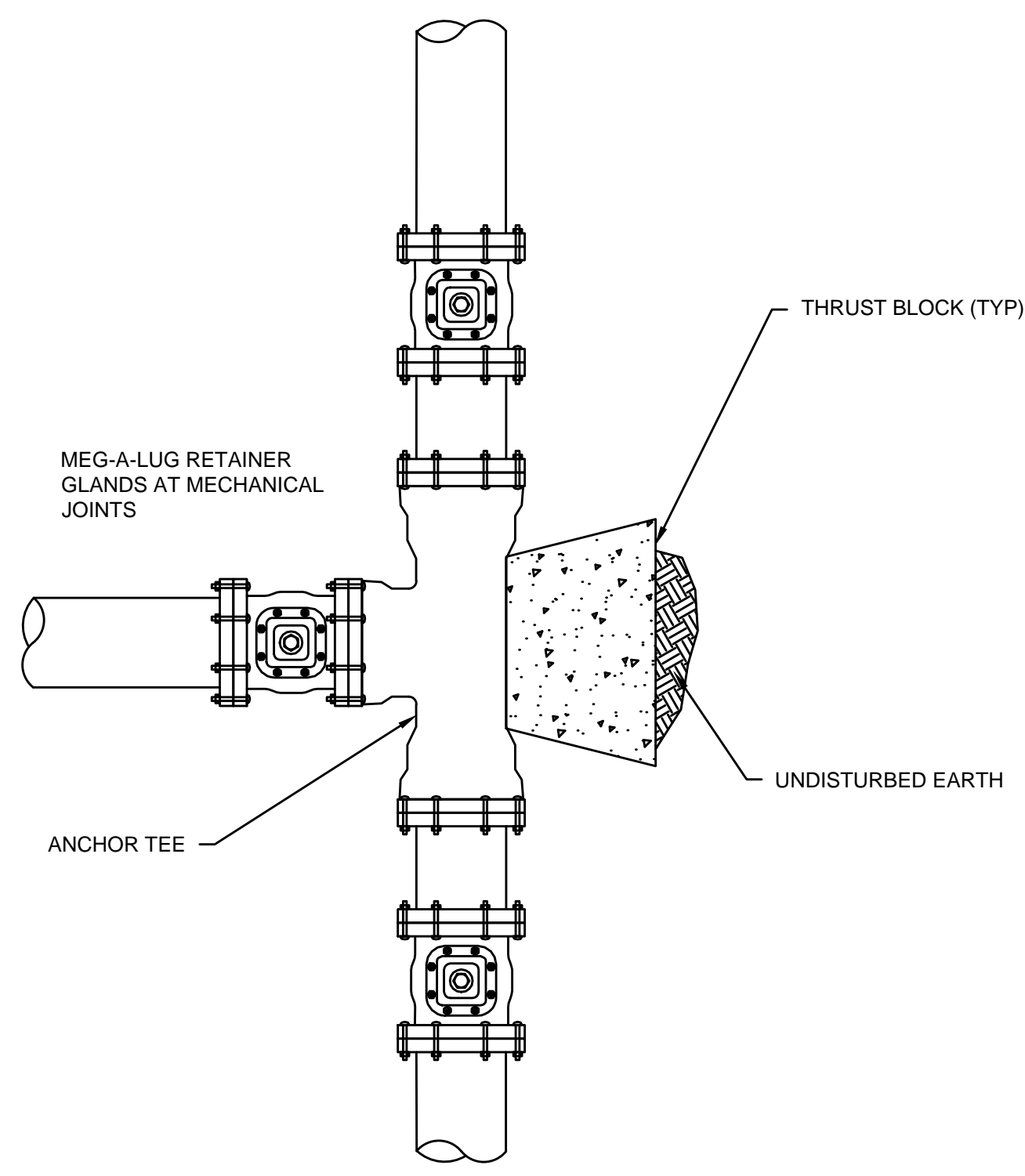
- NOTES:**
1. ALL WATER SERVICES SHALL BE REPLACED TO THE PROPERTY LINE AND CONNECTED TO THE EXISTING WATER SERVICE WITH A SLEEVE TYPE COUPLING.
 2. PROVIDE SADDLE CONNECTION FOR ALL 1.5" OR LARGER SERVICES. SADDLE SHALL HAVE STAINLESS STEEL BANDS.

TYPICAL WATER SERVICE CONNECTION
SCALE: N.T.S.



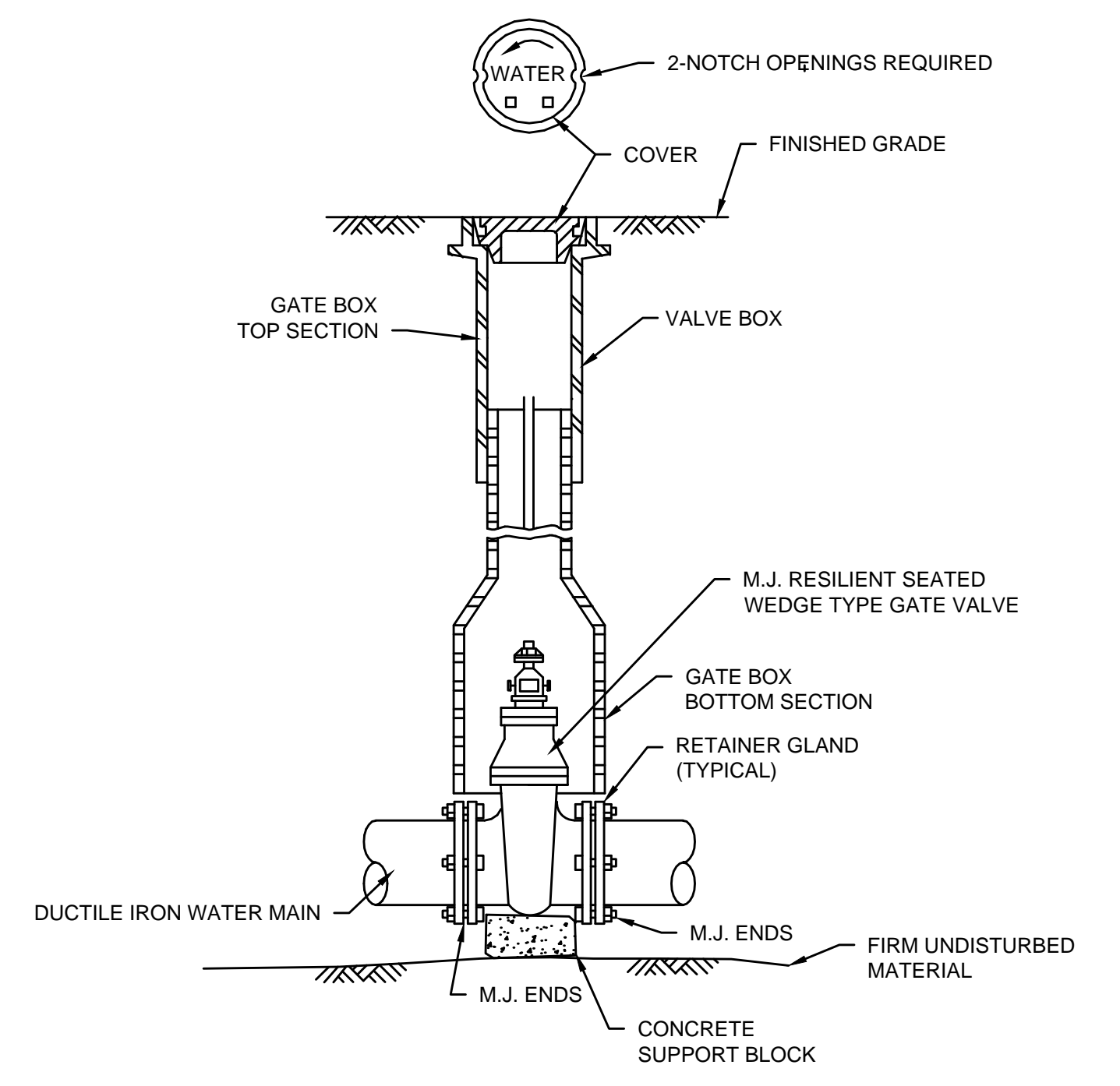
- NOTES:**
1. MAXIMUM TAPPING SLEEVE SHALL NOT BE GREATER THAN 1/2 DIAMETER OF CONNECTING MAIN.
 2. MEGA LUG RESTRAINTS ON ALL MECHANICAL JOINTS.

TYPICAL WATER CONNECTION (TAPPING SLEEVE)
SCALE: N.T.S.

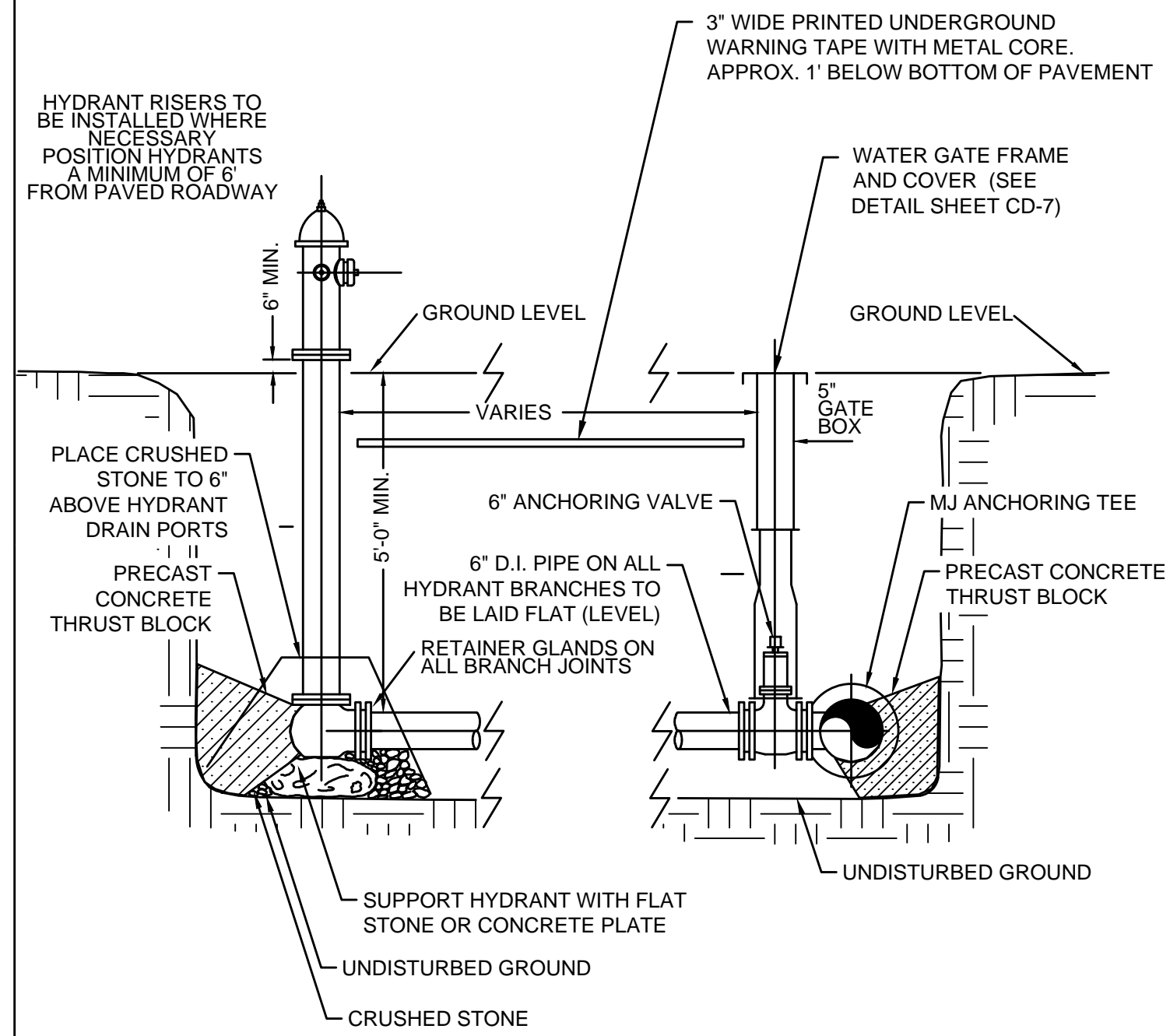


- NOTES:**
1. SEE DETAIL SHEET CD-8 FOR CONCRETE THRUST BLOCK DIMENSIONS.

TYPICAL ANCHOR TEE INSTALLATION
SCALE: N.T.S.

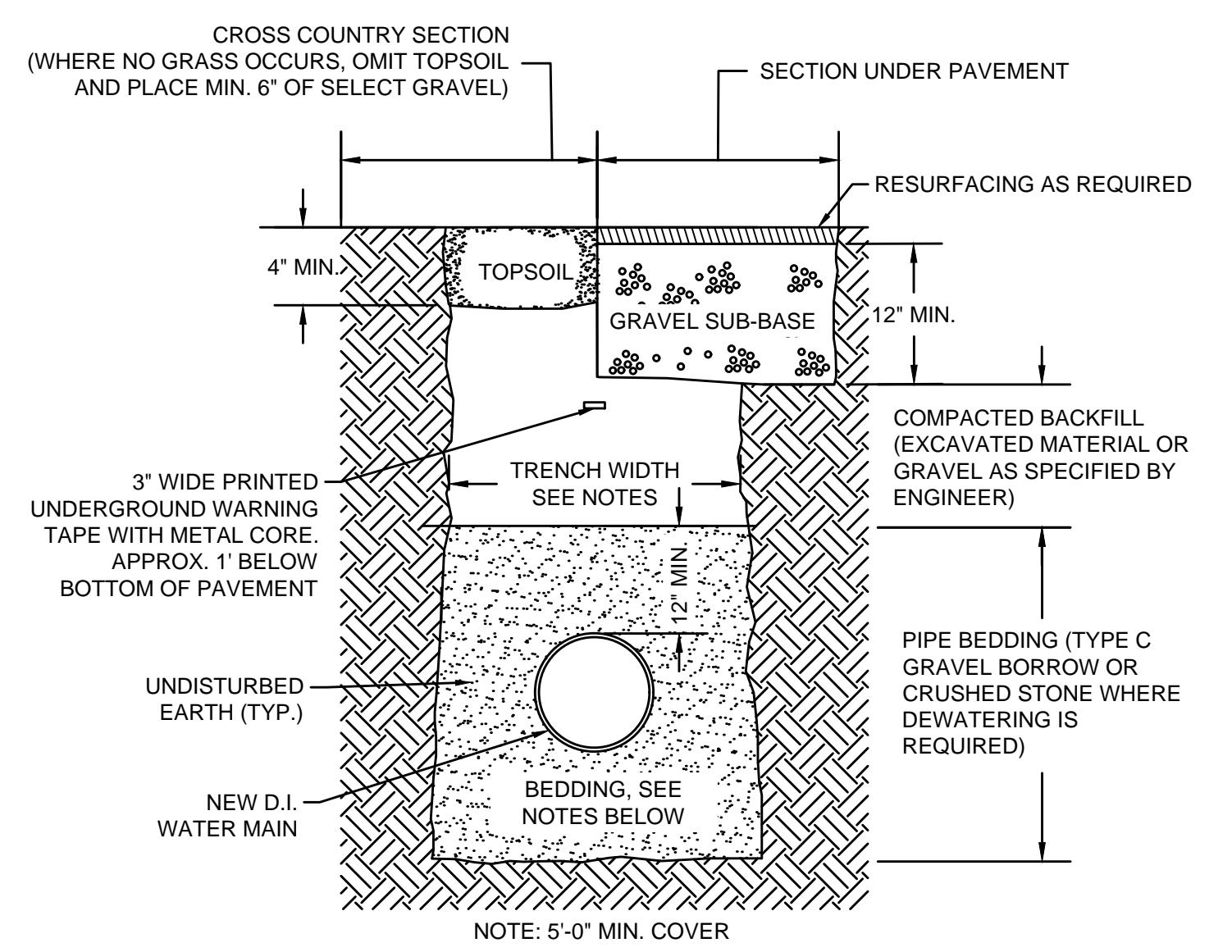


GATE VALVE AND VALVE BOX
SCALE: N.T.S.



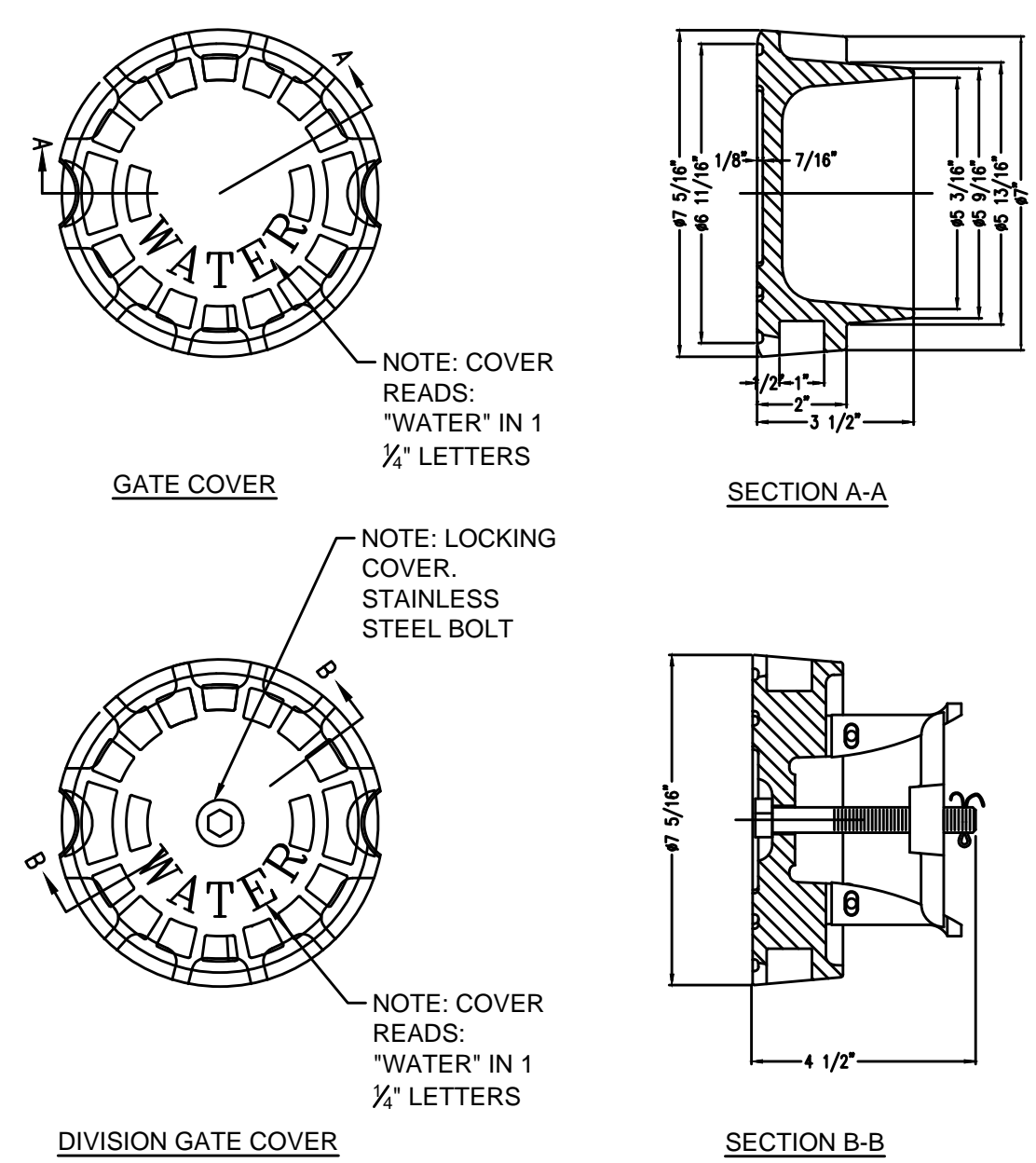
- NOTES:**
1. HYDRANTS ARE TO BE INSTALLED WITHIN THE ROADWAY LAYOUT
 2. FOR HYDRANTS INSTALLED AT DEAD END OF WATER MAINS: INSTALL VALVE WITH RESTRAINED JOINTS AND ONE FULL LENGTH OF PIPE BETWEEN VALVE AND HYDRANT WITH RESTRAINED JOINTS
 3. ALL HYDRANT BRANCH PIPING TO BE 6" DUCTILE IRON PIPE.

FIRE HYDRANT INSTALLATION
SCALE: N.T.S.



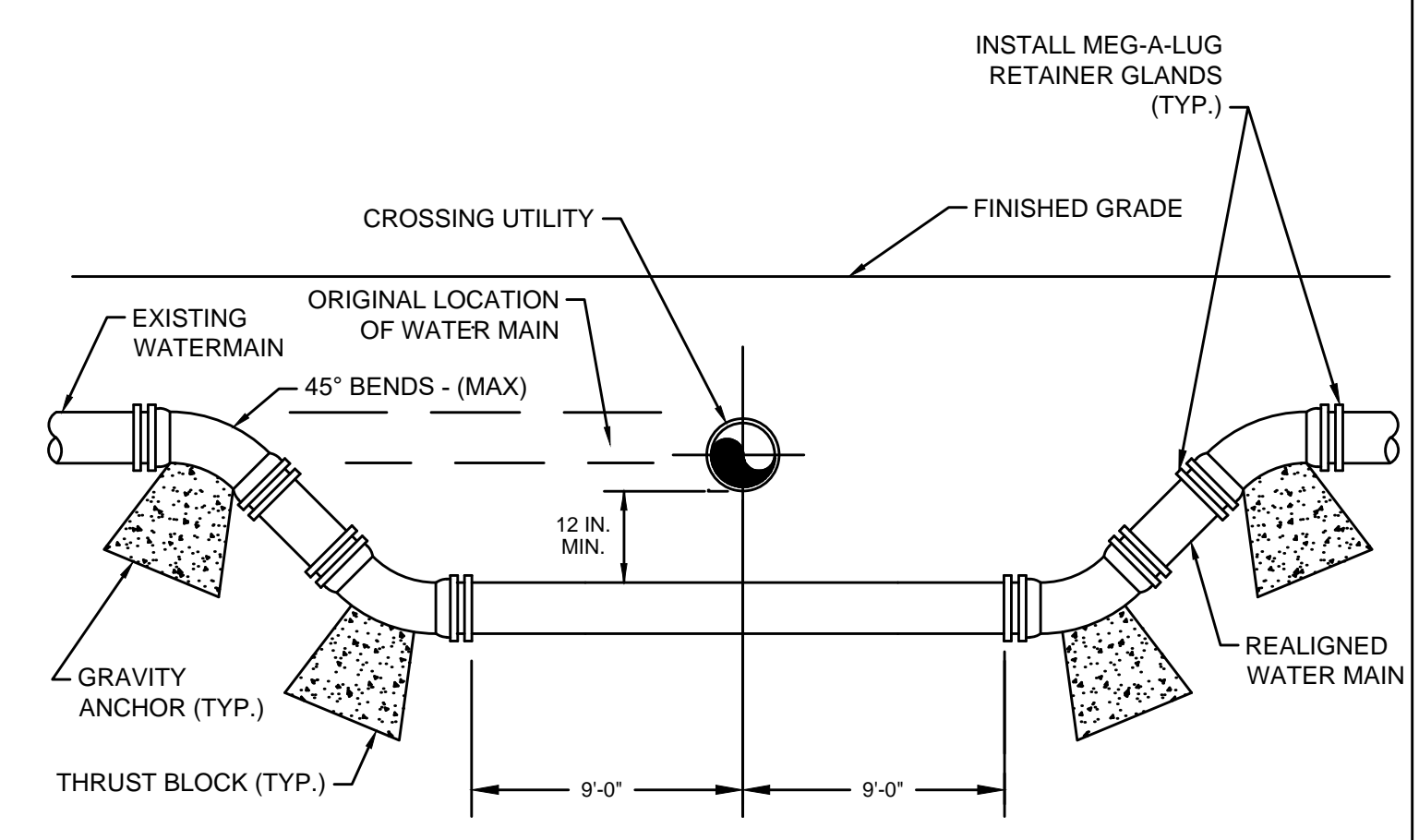
- NOTES:**
1. TRENCH WIDTH PAY LIMIT FOR WATER MAIN INSTALLATION AND TEMPORARY PAVEMENT=4.0-FT
 2. FOR LOCATIONS WHERE LEDGE IS NOT ENCOUNTERED IN TRENCH, PIPE CAN LAY ON UNDISTURBED EARTH, OR ON SAND BEDDING CONSISTENT WITH AWWA GUIDELINES.
 3. FOR LOCATIONS WHERE LEDGE IS ENCOUNTERED, SAND BEDDING SHALL BE MINIMUM OF 12" THICK UNDER PIPE.
 4. SEE DETAIL SHEET CD-9 FOR TEMPORARY, INTERMEDIATE, AND PERMANENT PAVEMENT DETAILS.

TYPICAL WATER MAIN TRENCH
SCALE: N.T.S.



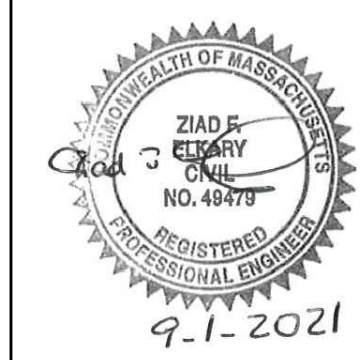
- NOTE:**
1. WATER GATE COVER SHALL HAVE A MINIMUM HEIGHT OF 3.5 INCHES AND MINIMUM WEIGHT OF 13 POUNDS, BRAND NAME BIBBY-STE-CROIX OR EQUAL.

WATER GATE COVER
SCALE: N.T.S.



- NOTES:**
1. ALL FITTINGS AND JOINTS IN LOWERING AREA TO BE RESTRAINED.
 2. WHEN IT IS IMPOSSIBLE TO OBTAIN HORIZONTAL OR VERTICAL SEPARATION AS INDICATED IN THE DETAIL ABOVE, BOTH THE WATER AND THE SEWER SHOULD BE ENCASED IN CONTROL DENSITY FILL FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CROSSING.
 3. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE ENCASEMENT WHEN CONTACTING CONTROL DENSITY FILL.

WATER MAIN LOWERING
SCALE: N.T.S.



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
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Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

WATER DETAILS I

FOR CONSTRUCTION
Sheet No.

CD-7

Drawing file: I:\Nantucket\360-2001 - Sea St PWS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\06 Civil Details.dwg Plot Date: Aug 31, 2021 1:23:58pm

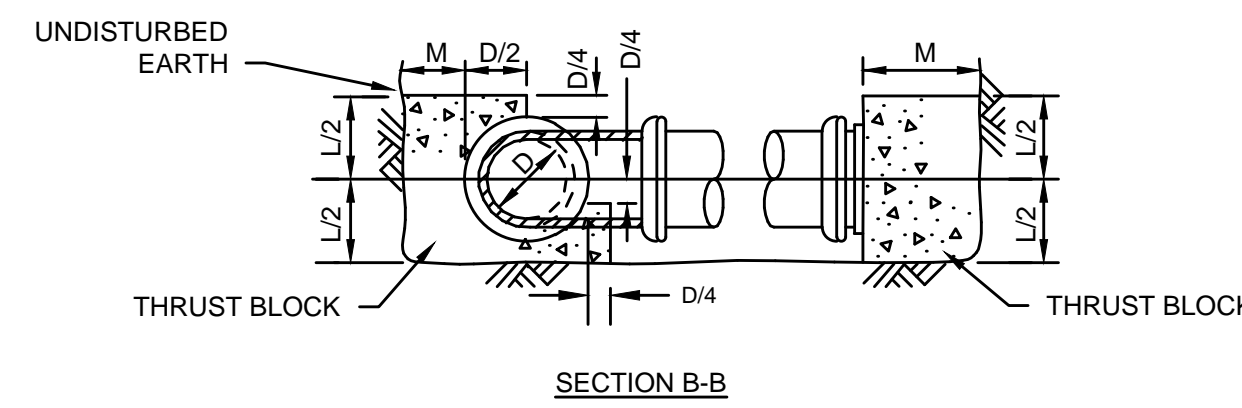
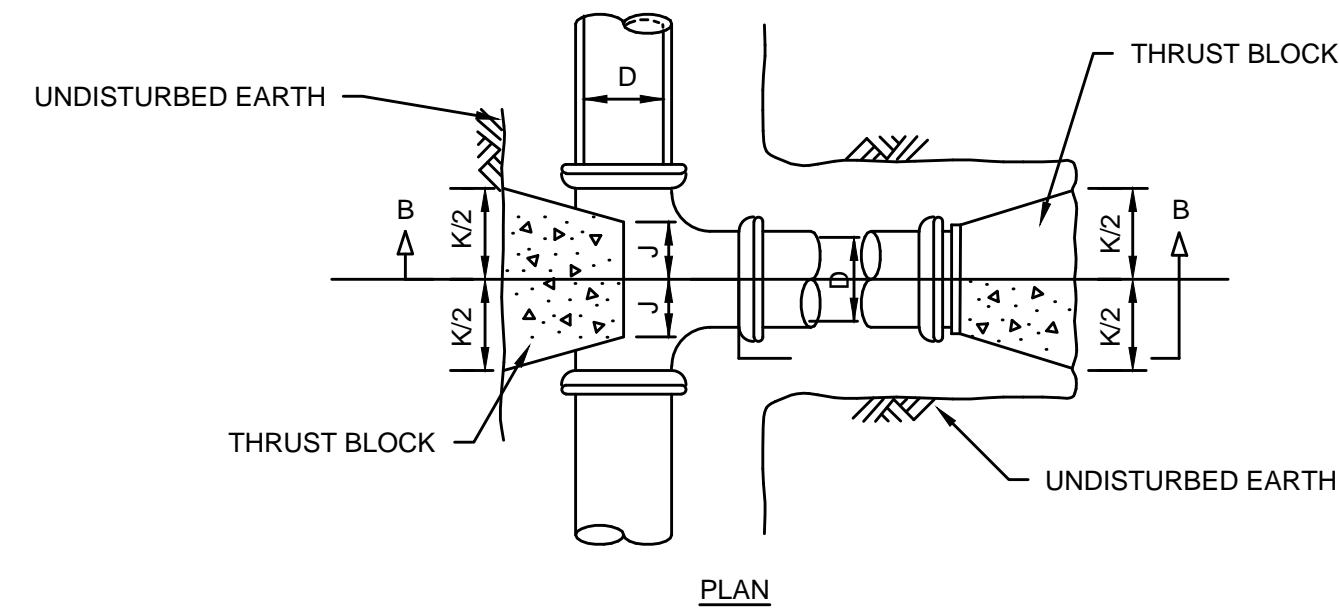


TABLE OF DIMENSIONS						
D (in)	4	6	8	10	12	14
J (in)	6	6	7	9	10	12
K (in)	16	16	20	26	32	36
L (in)	16	16	21	24	29	34
M (in)	11	11	14	16	19	22

CONCRETE THRUST BLOCK AT TEE/PLUG/CAP
SCALE: N.T.S.

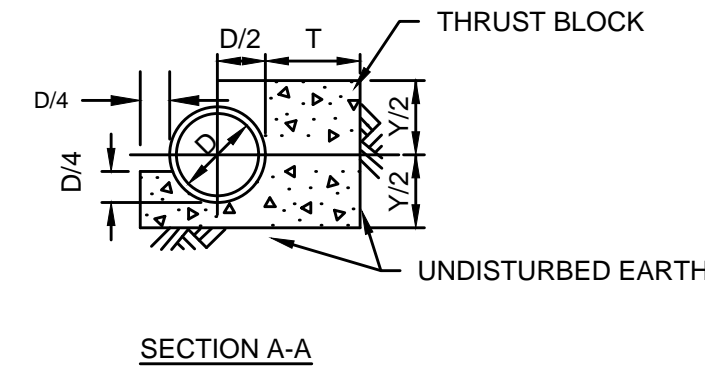
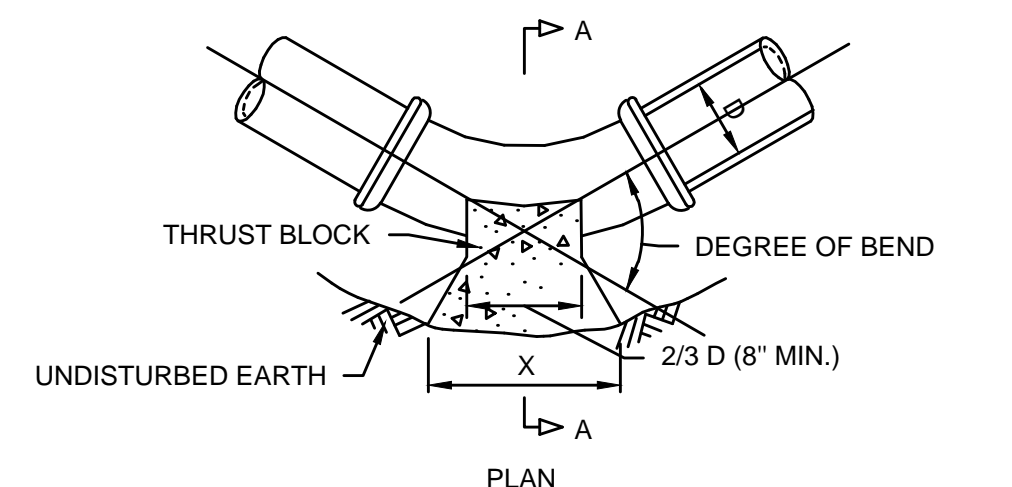
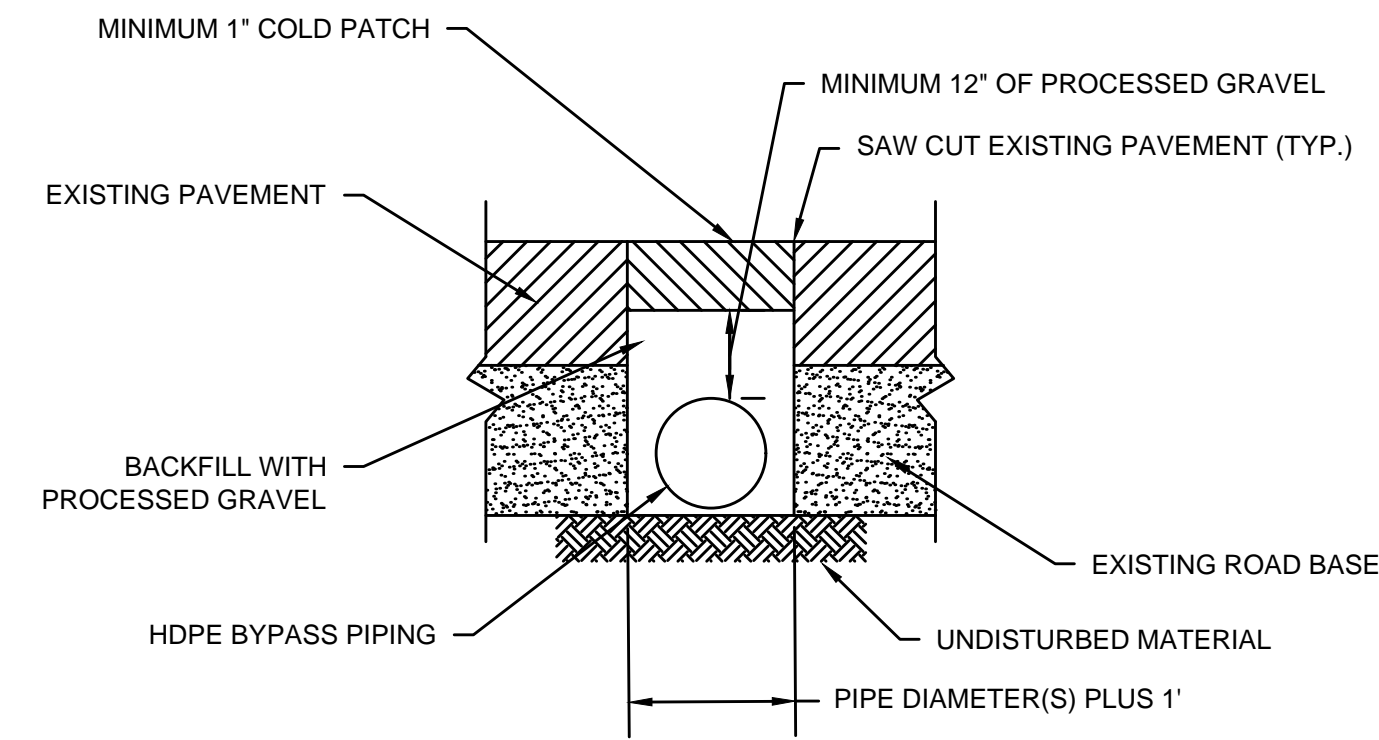


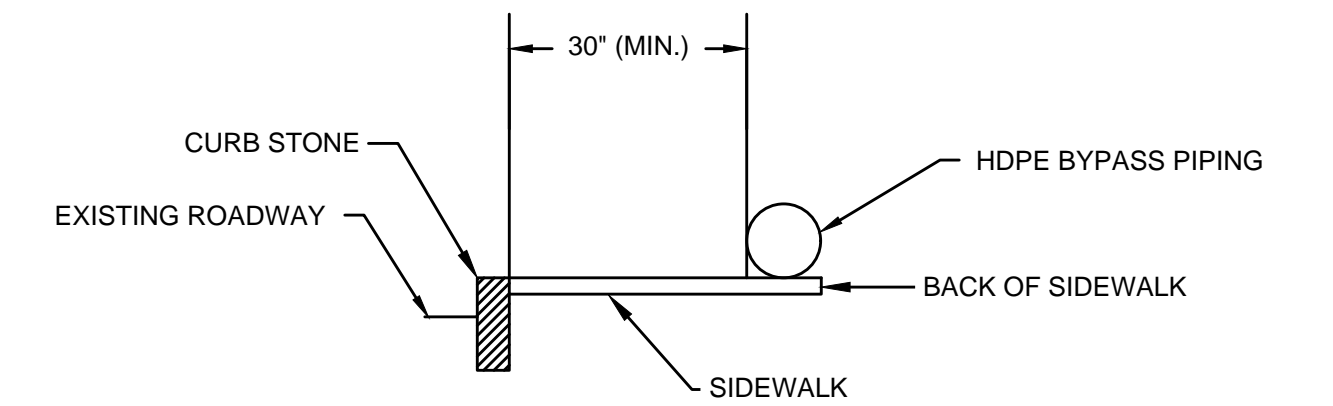
TABLE OF DIMENSIONS																				
DIMENSION	45° BEND					22 1/2° BEND					11 1/4° BEND									
	D (in.)	4	6	8	10	12	4	6	8	10	12	4	6	8	10	12	4	6	8	10
X (in.)	24	24	35	45	51	60	28	28	30	32	37	42	12	12	19	21	27	33	33	33
Y (in.)	16	16	19	21	27	33	13	13	13	16	19	22	8	8	9	12	13	16	16	16
T (in.)	11	11	14	16	19	22	11	11	13	16	19	22	11	11	13	16	19	22	22	22

CONCRETE THRUST BLOCK AT BEND
SCALE: N.T.S.



- NOTES:**
1. BYPASS PIPING SHALL BE TRENCHED FOR ALL ROADWAY AND DRIVEWAY CROSSINGS.

TYPICAL BYPASS PIPING TRENCH ACROSS ROADWAYS
SCALE: N.T.S.



- NOTE:**
1. ENSURE SIDEWALK IS PASSABLE (MIN. 30" CLEARANCE) FOR DURATION OF CONSTRUCTION.

TYPICAL BYPASS PIPING AT BACK OF SIDEWALK
SCALE: N.T.S.



ENVIRONMENTAL PARTNERS
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MARK	DATE	DESCRIPTION

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Date	SEPTEMBER 2021
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Approved by	ZFK

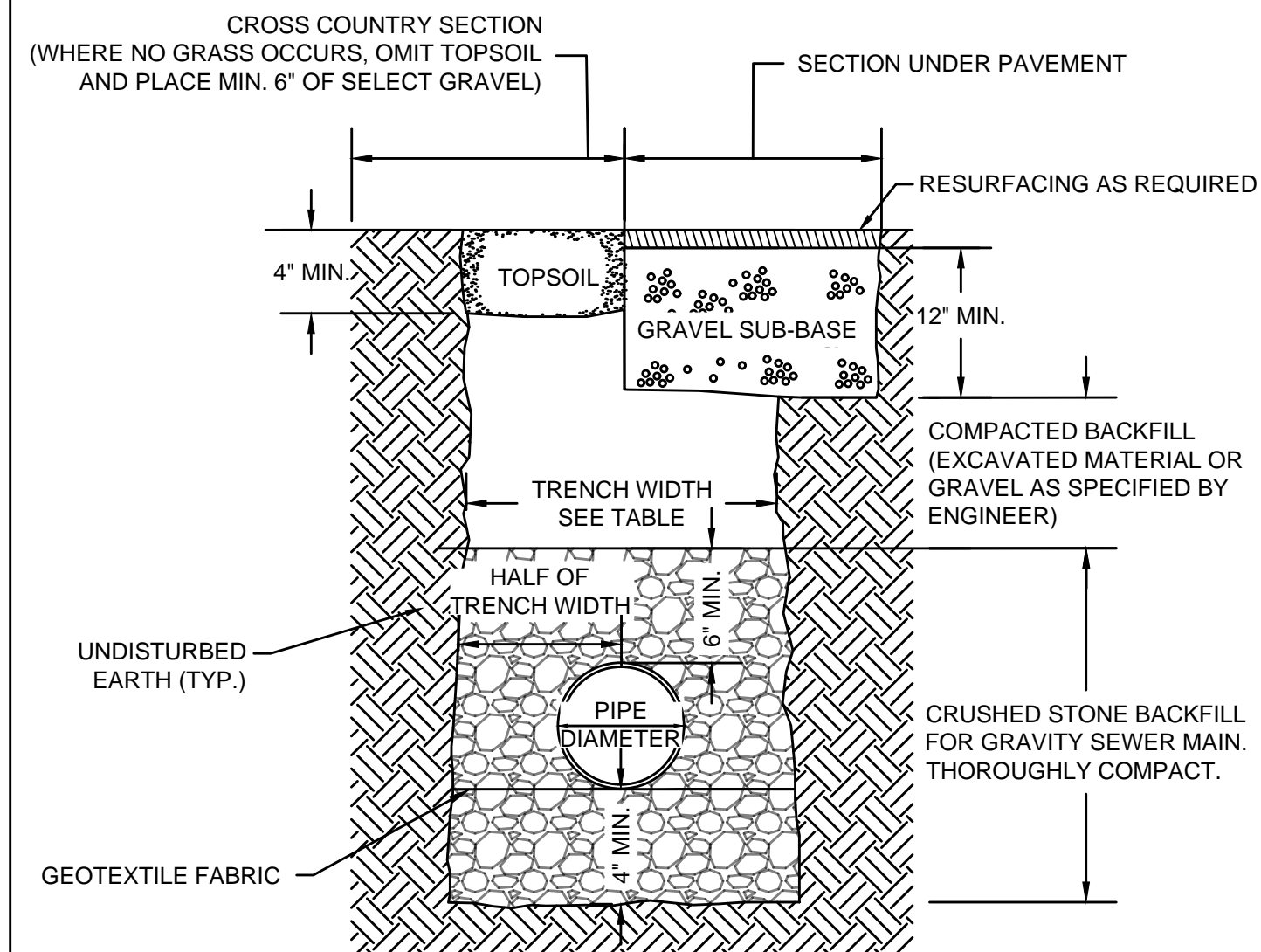
THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

WATER DETAILS II

FOR CONSTRUCTION
Sheet No.

CD-8



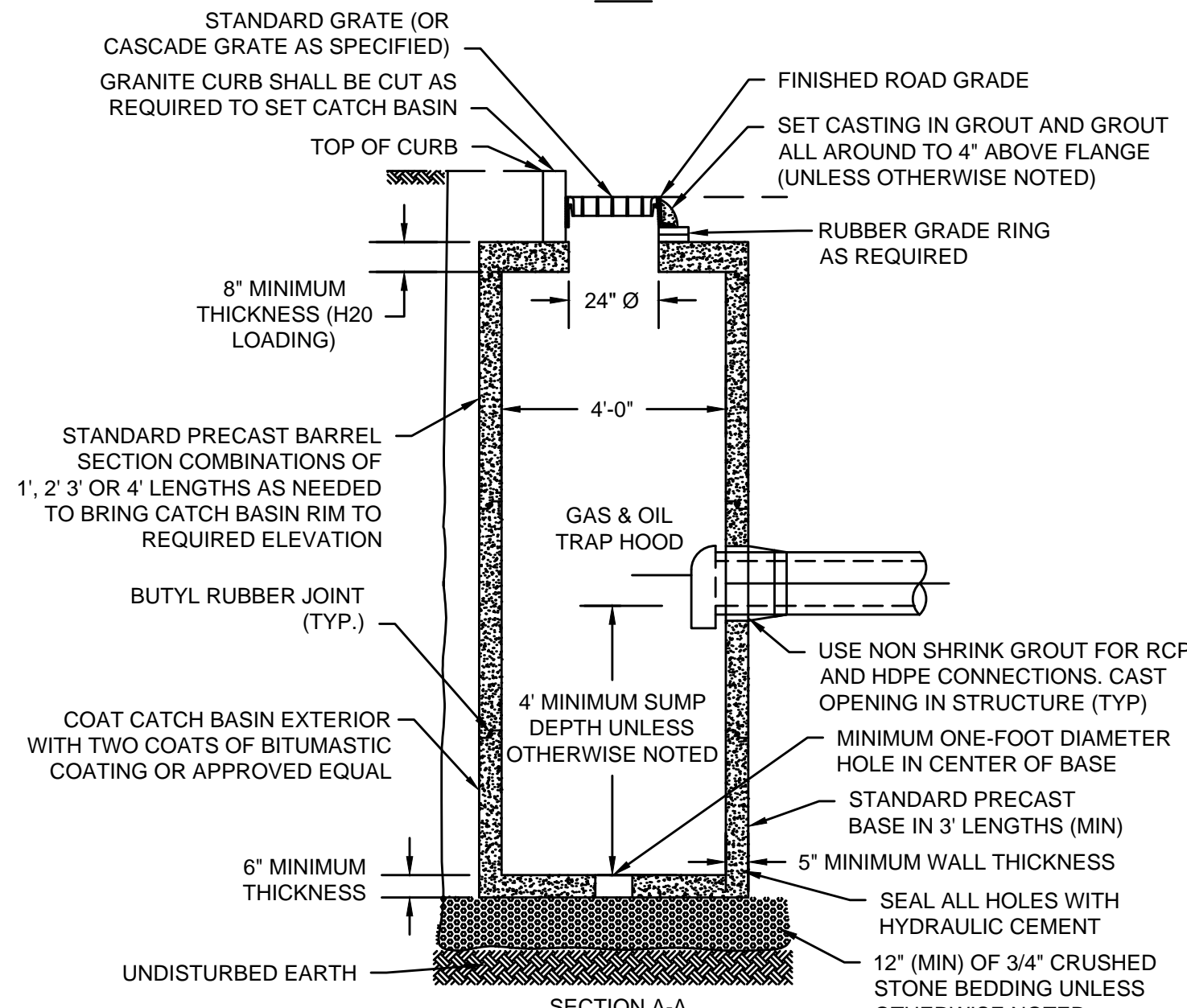
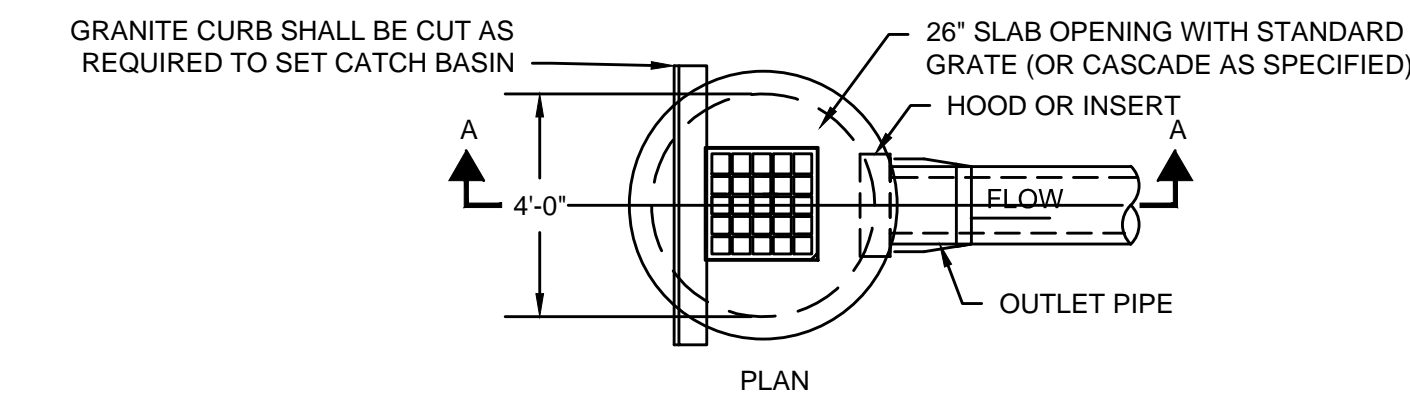
TRENCH WIDTH PAYMENT SCHEDULE

PIPE DIAMETER	TRENCH DEPTH		
	0 - 12'	12 - 20'	> 20'
UP TO 24"	5'	7'	10'
> 24"	D+3'	D+5'	D+8'

- NOTES:
- TRENCH PAYMENT WIDTH FOR MULTIPLE PIPES IN THE SAME TRENCH WILL BE INCREASED BY LARGER PIPE DIAMETER PLUS A MAXIMUM OF 1'-0" HORIZONTAL SEPARATION AS MEASURED BETWEEN EACH PIPE.
 - D = PIPE DIAMETER (IN FEET). FOR EXAMPLE, IF PIPE IS 30"Ø AND LESS THAN 12' DEEP, THEN TRENCH WIDTH IS 2.5'+3'=5.5'

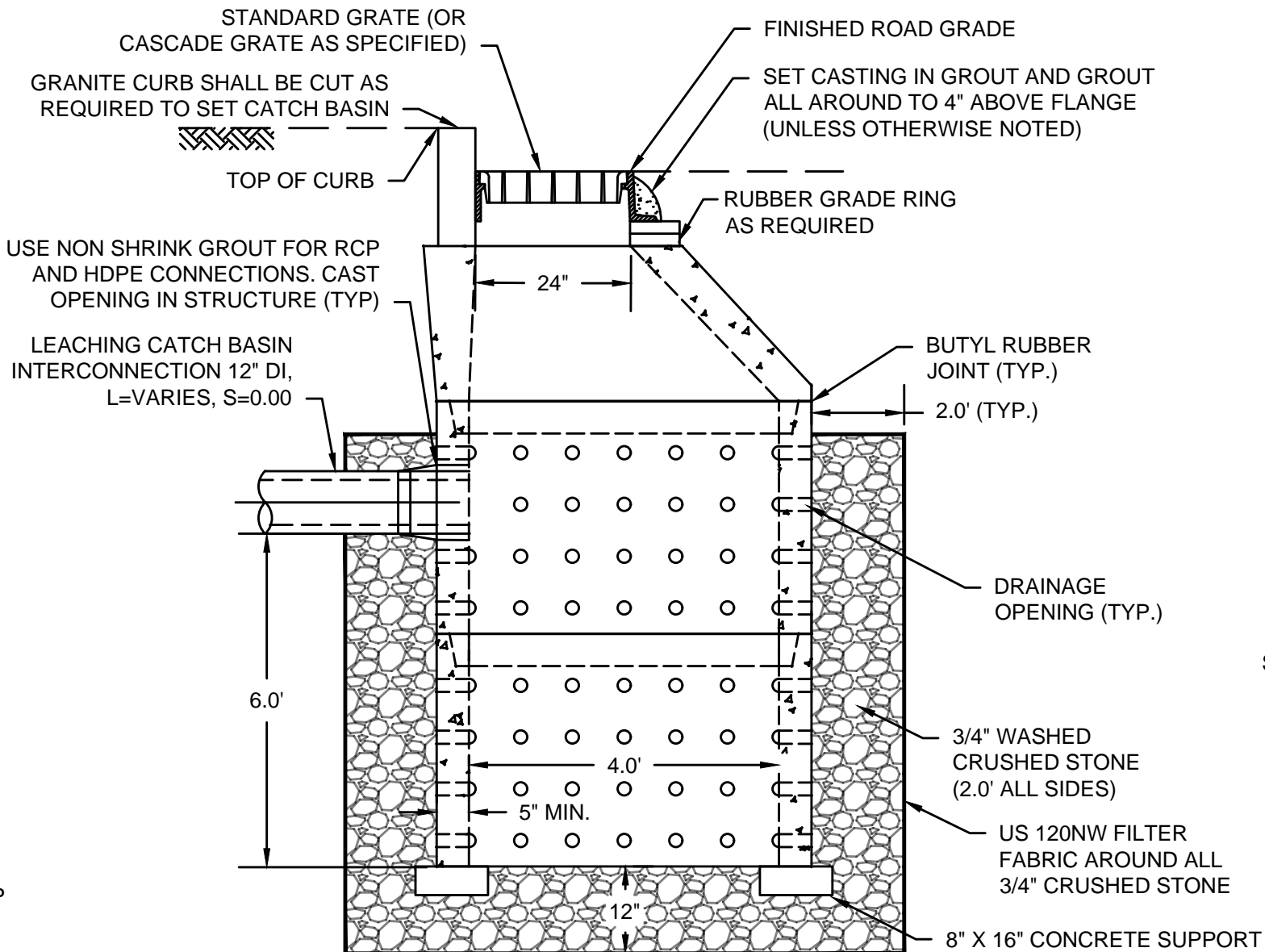
TYPICAL DRAIN TRENCH

SCALE: N.T.S.



TYPICAL CATCH BASIN

SCALE: N.T.S.



- NOTES:
- LEACHING CATCH BASINS SHALL HAVE NO BOTTOM.
 - CONCRETE MINIMUM STRENGTH: 4,000 PSI @ 28 DAYS
 - STEEL REINFORCEMENT: ASTM A-615 GRADE 60, 1" MIN. COVER.
 - DESIGN LOADING AASHTO HS20-44.
 - DETAILS SHOWN ARE GENERAL. REFER TO DRAWINGS FOR DETAILED DESIGN.

TYPICAL LEACHING CATCH BASIN

SCALE: N.T.S.

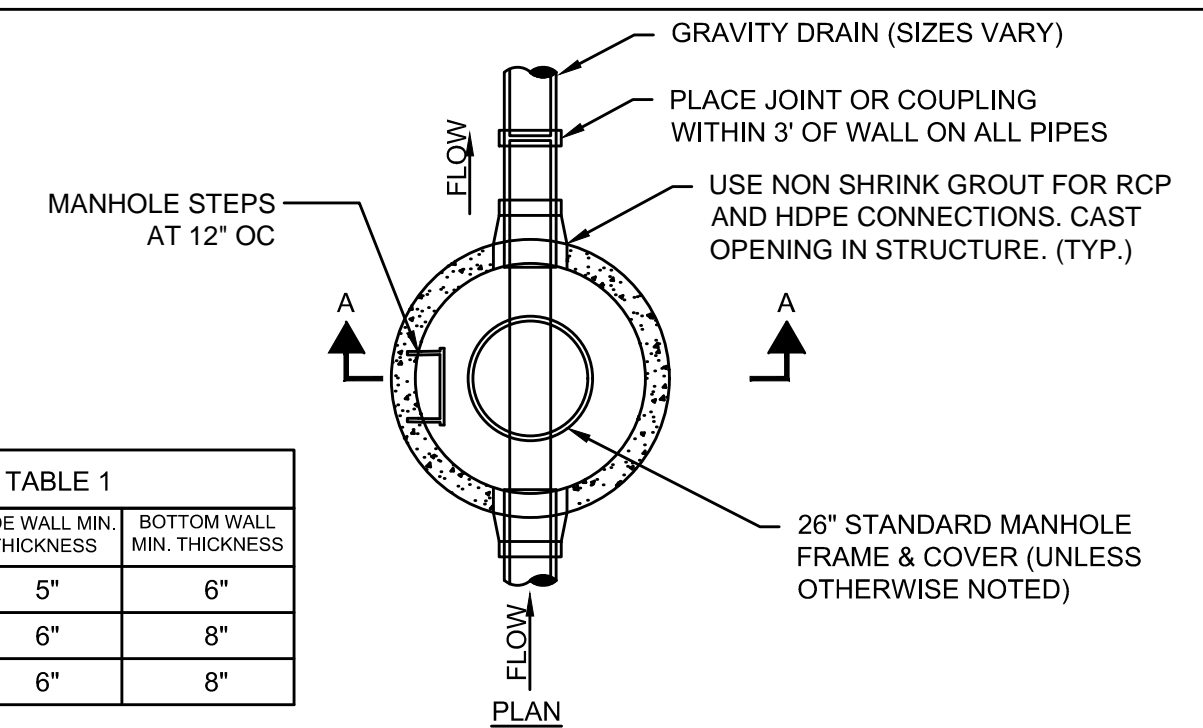
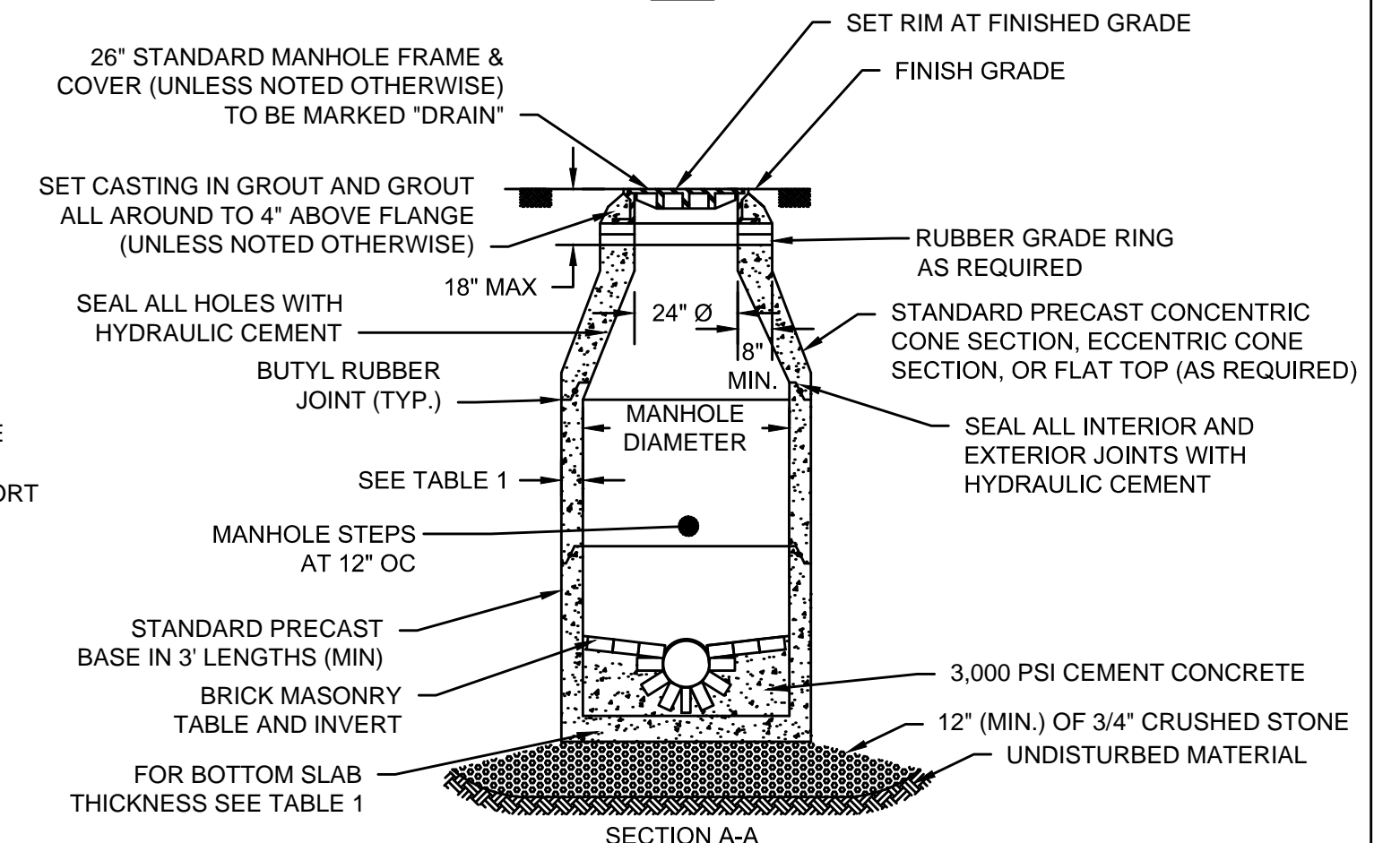


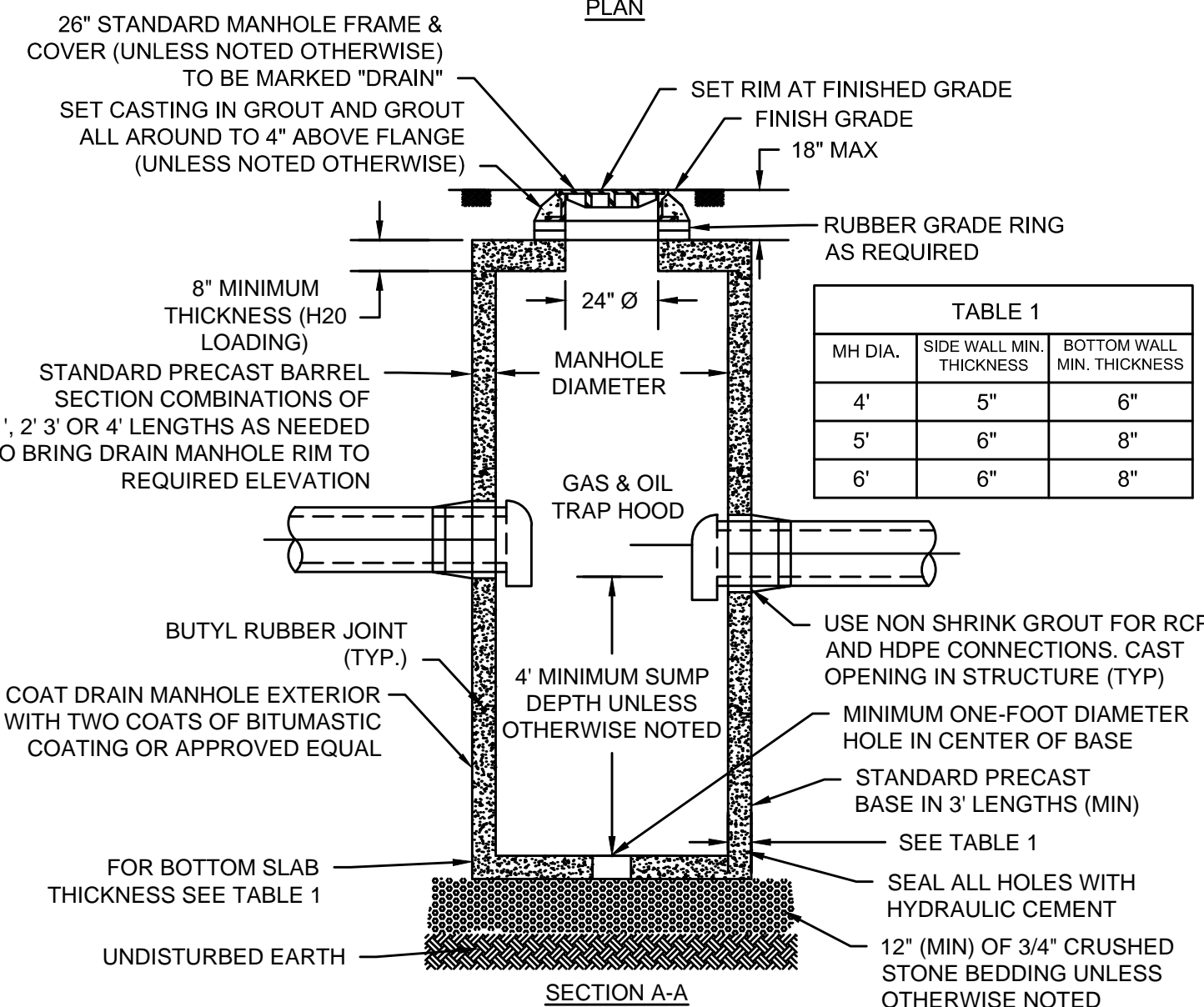
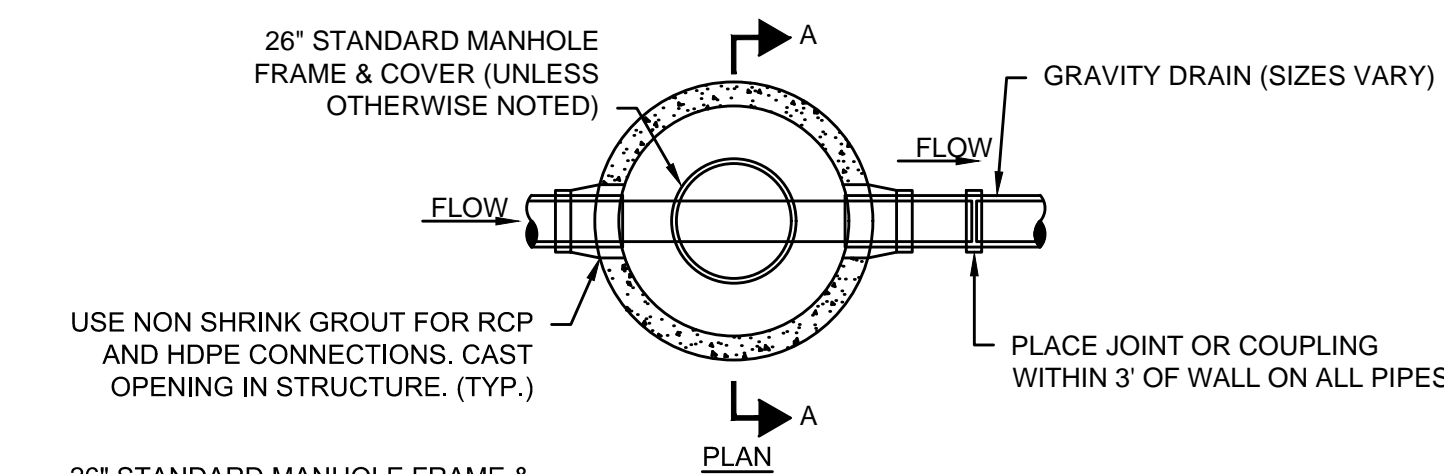
TABLE 1

MH DIA.	SIDE WALL MIN. THICKNESS	BOTTOM WALL MIN. THICKNESS
4'	5"	6"
5'	6"	8"
6'	6"	8"



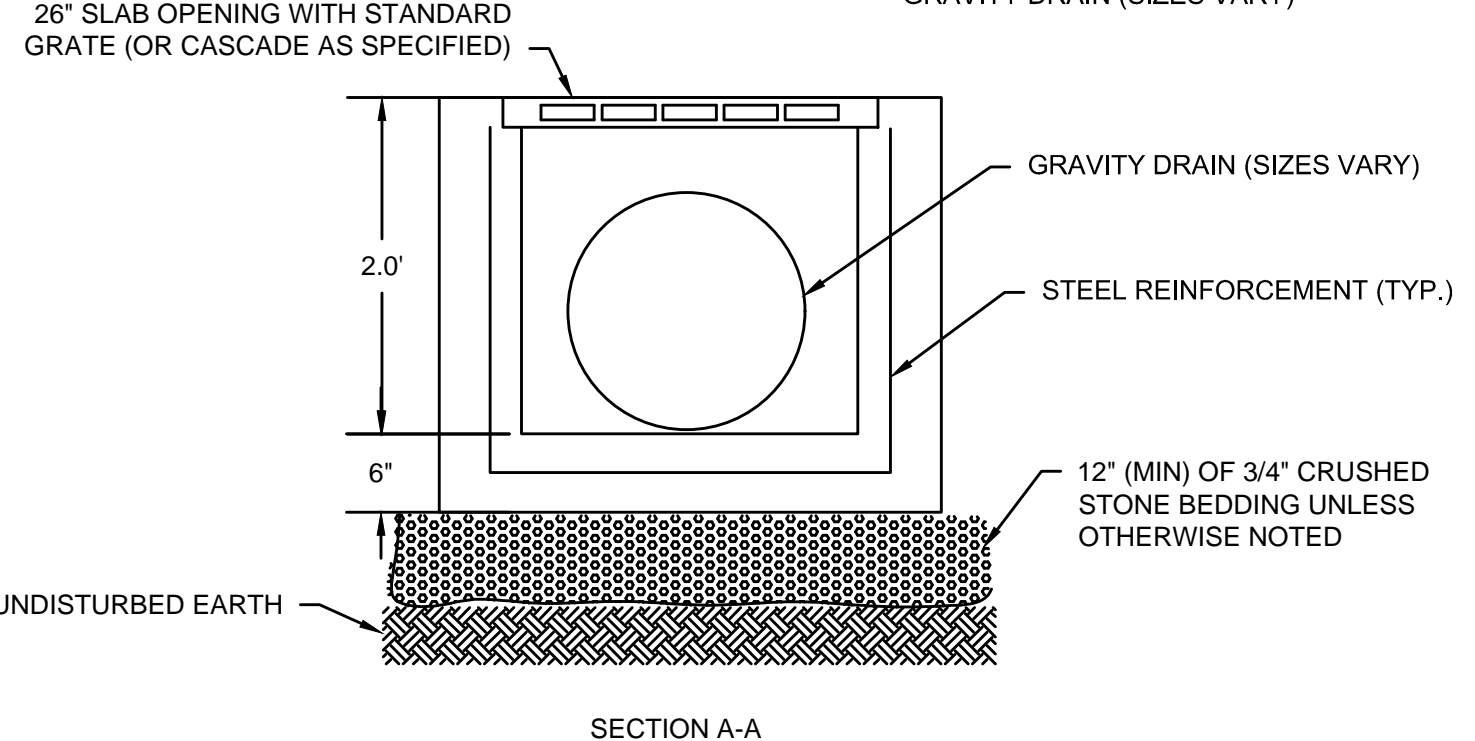
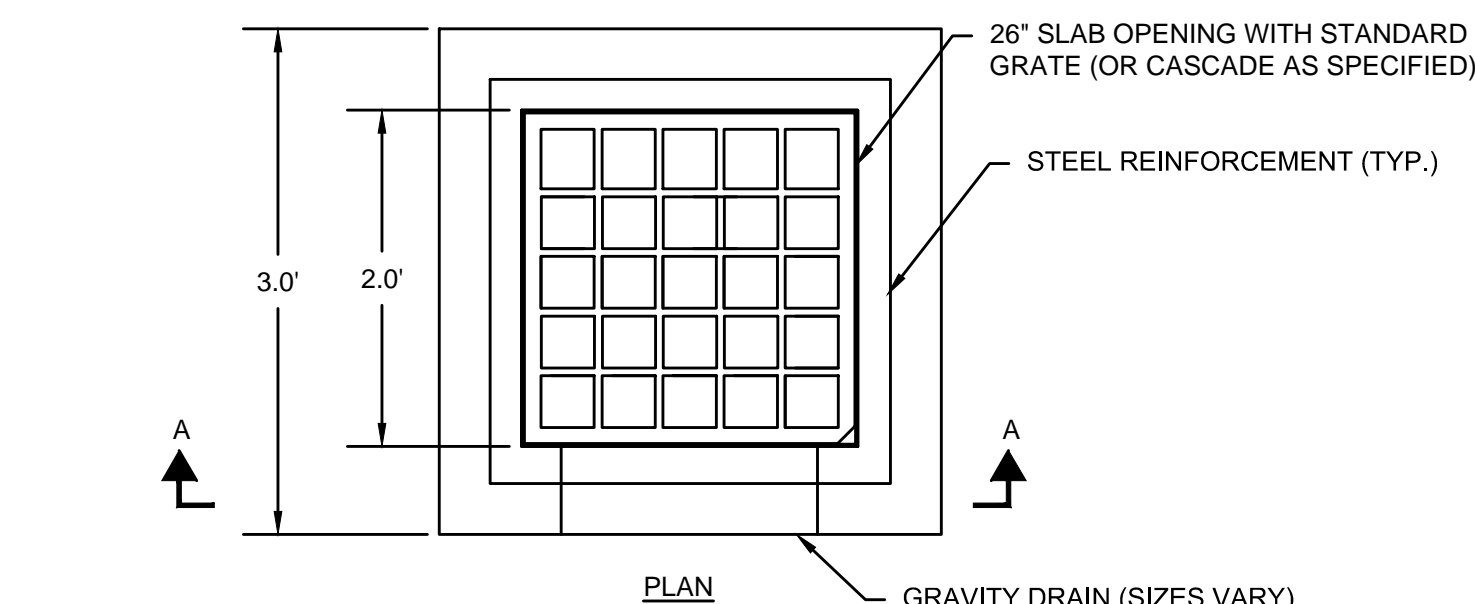
TYPICAL DRAIN MANHOLE

SCALE: N.T.S.



TYPICAL DRAIN MANHOLE WITH SUMP

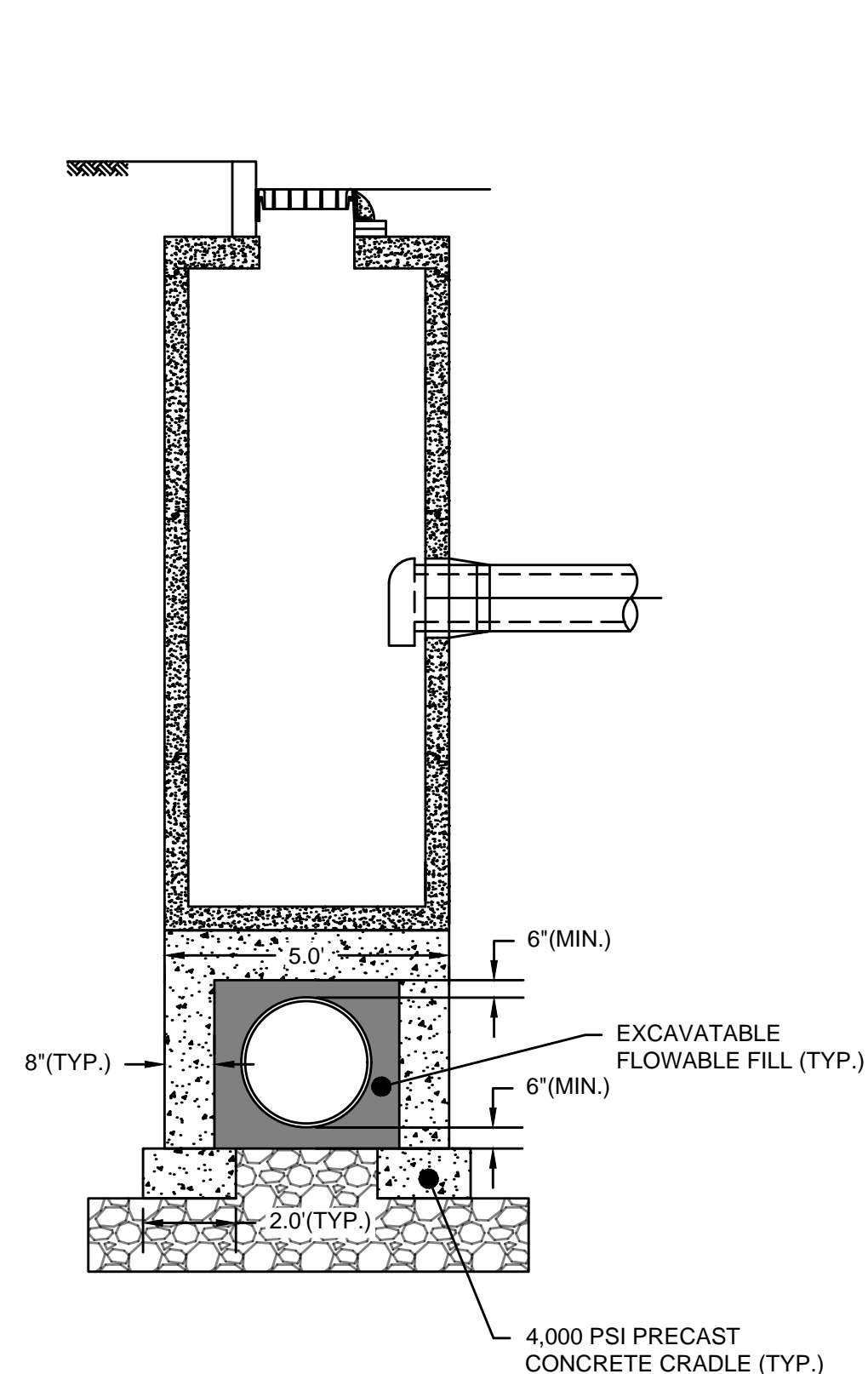
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- NOTES:
- CONCRETE MINIMUM STRENGTH: 4,000 PSI @ 28 DAYS.
 - STEEL REINFORCEMENT: ASTM A-615 GRADE 60, 1" MIN. COVER.
 - DESIGN LOADING AASHTO HS20-44.
 - DETAILS SHOWN ARE GENERAL. REFER TO DRAWINGS FOR DETAILED DESIGN.

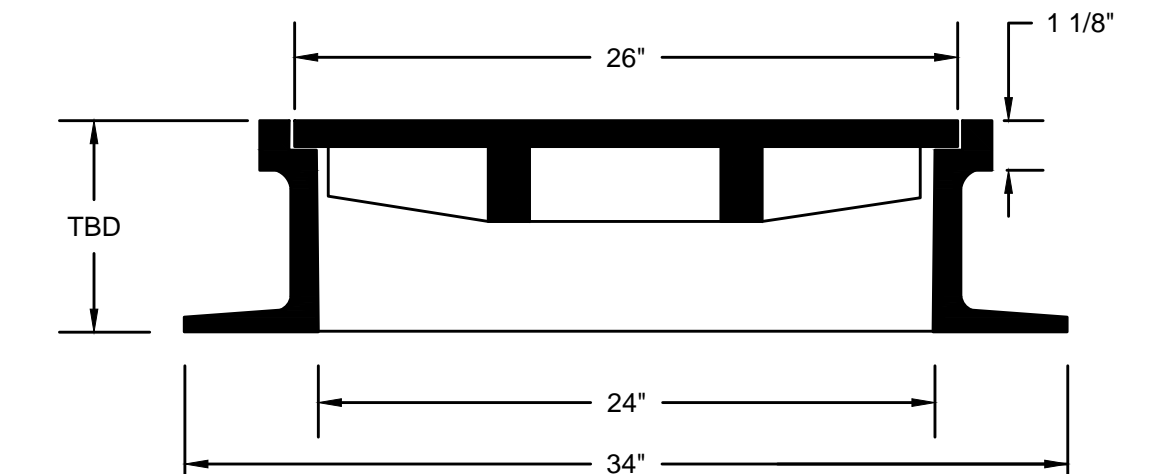
TYPICAL 2' X 2' GUTTER INLET

SCALE: N.T.S.



CONCRETE CRADLE OVER SEWER FORCE MAIN

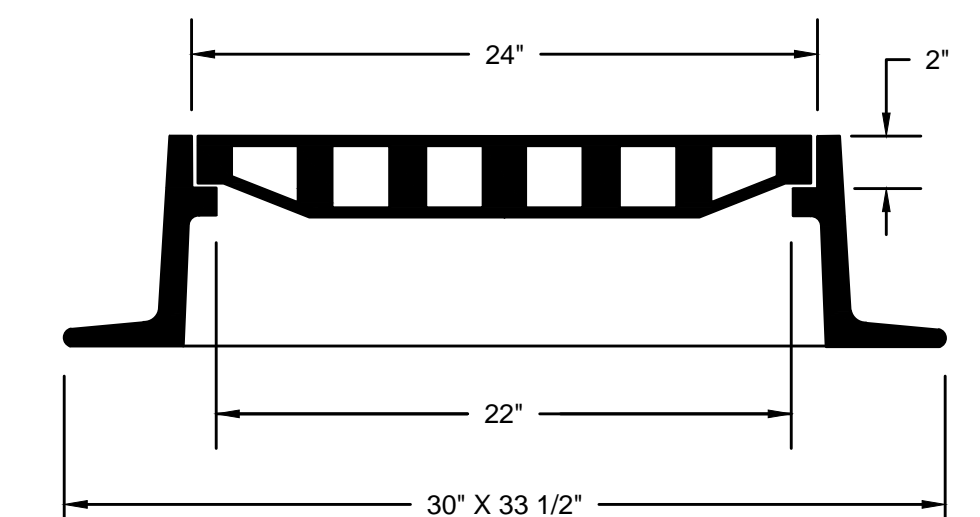
SCALE: N.T.S.



- NOTES:
- FRAME AND COVER SHALL BE EJ, OR APPROVED EQUAL.
 - EACH COVER SHALL READ DRAIN IN 3" LETTERING.
 - FRAME AND COVER SHALL BE SET IN FULL BED OF MORTAR.
 - FRAME HEIGHT TO BE DETERMINED BY CONTRACTOR.
 - EACH FRAME AND COVER SHALL HAVE A MINIMUM WEIGHT OF 480 POUNDS

DRAIN MANHOLE FRAME AND COVER

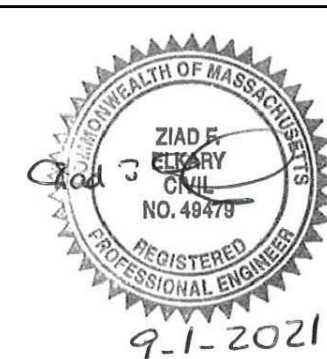
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- NOTES:
- FRAME AND GRATE SHALL BE EJ, OR APPROVED EQUAL.
 - FRAME AND GRATE SHALL BE SET IN FULL BED OF MORTAR ON A MINIMUM OF TWO COURSES OF BRICK.
 - FRAME HEIGHT TO BE DETERMINED BY CONTRACTOR.

CATCH BASIN/GUTTER INLET FRAME AND GRATE

SCALE: N.T.S.



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Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

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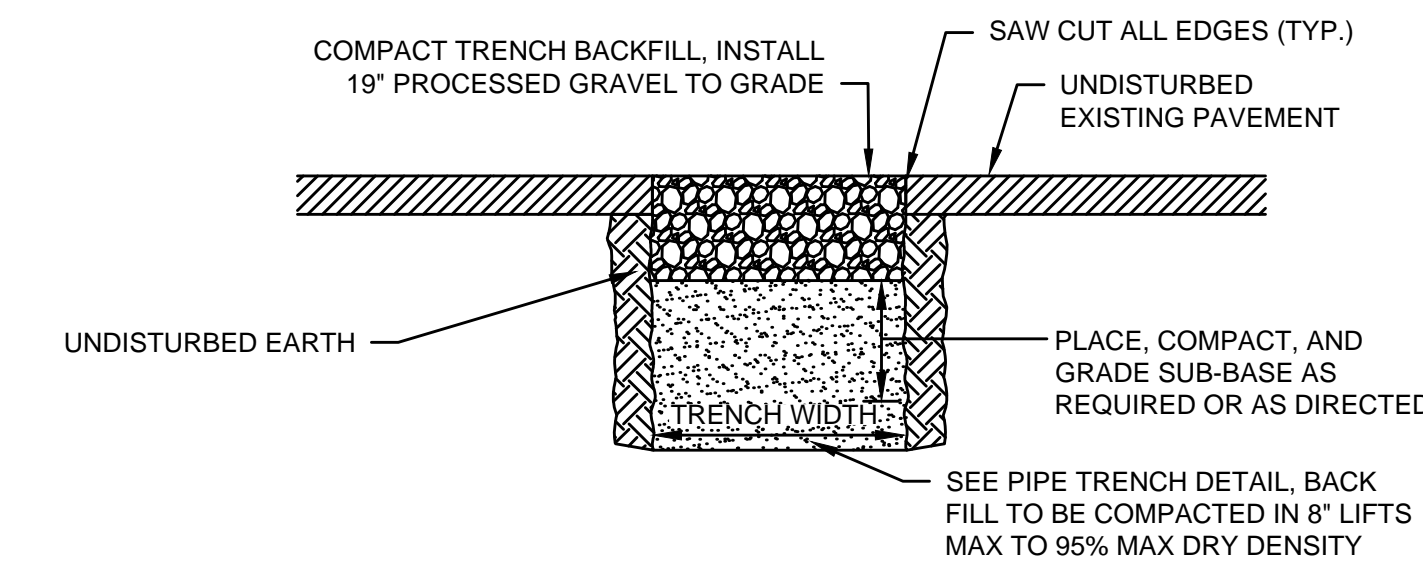
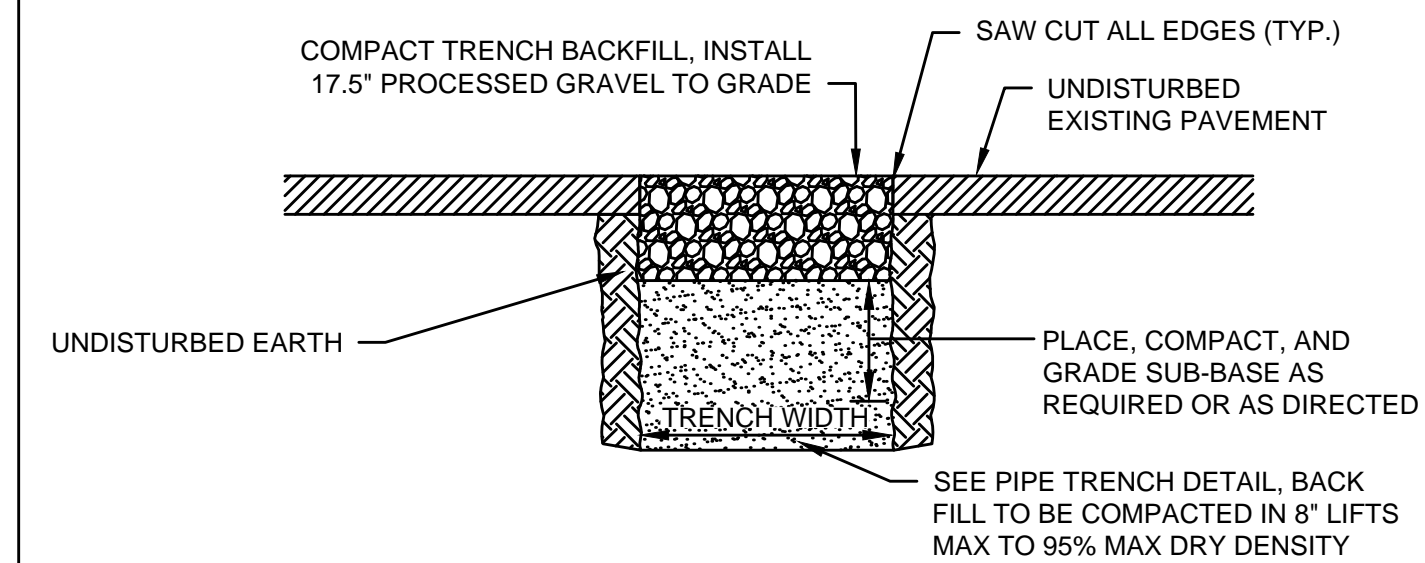
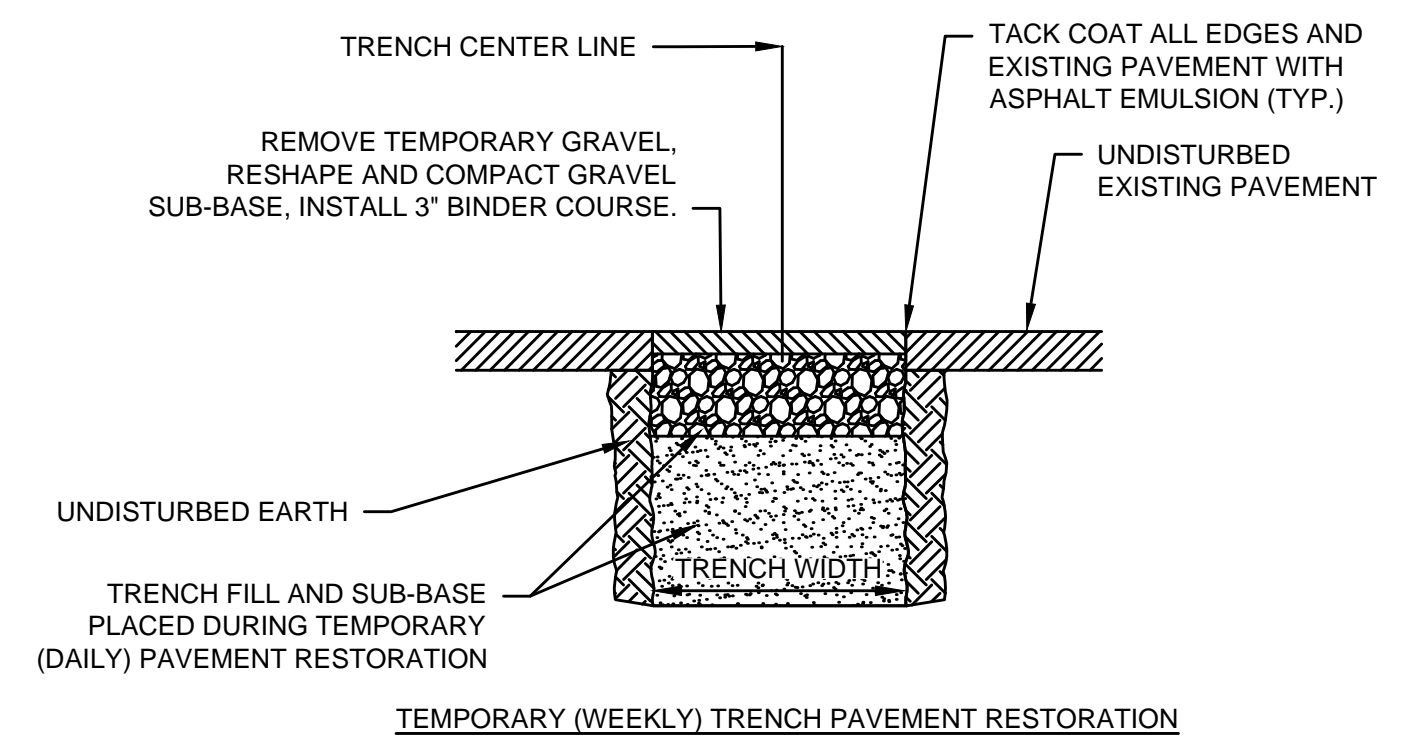
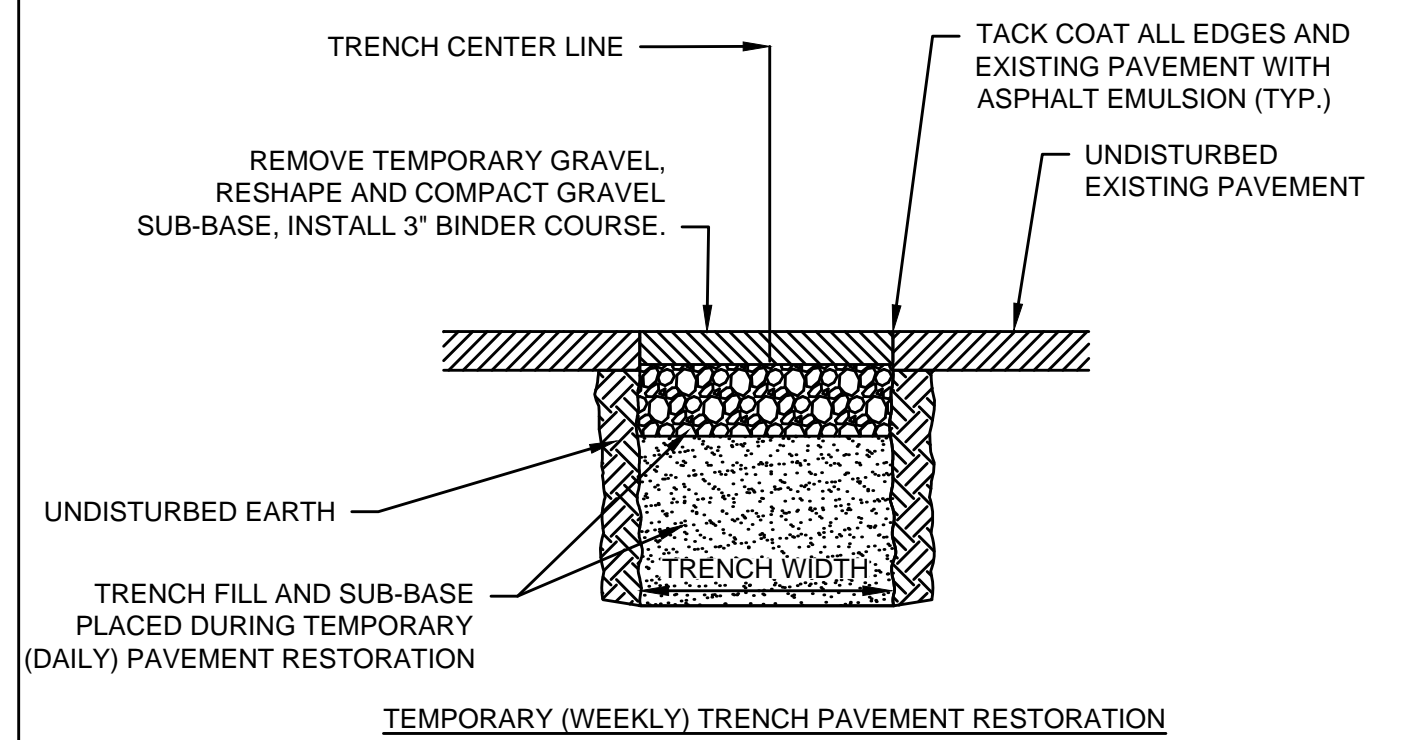
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

STORMWATER DETAILS I

FOR CONSTRUCTION
Sheet No.

CD-9

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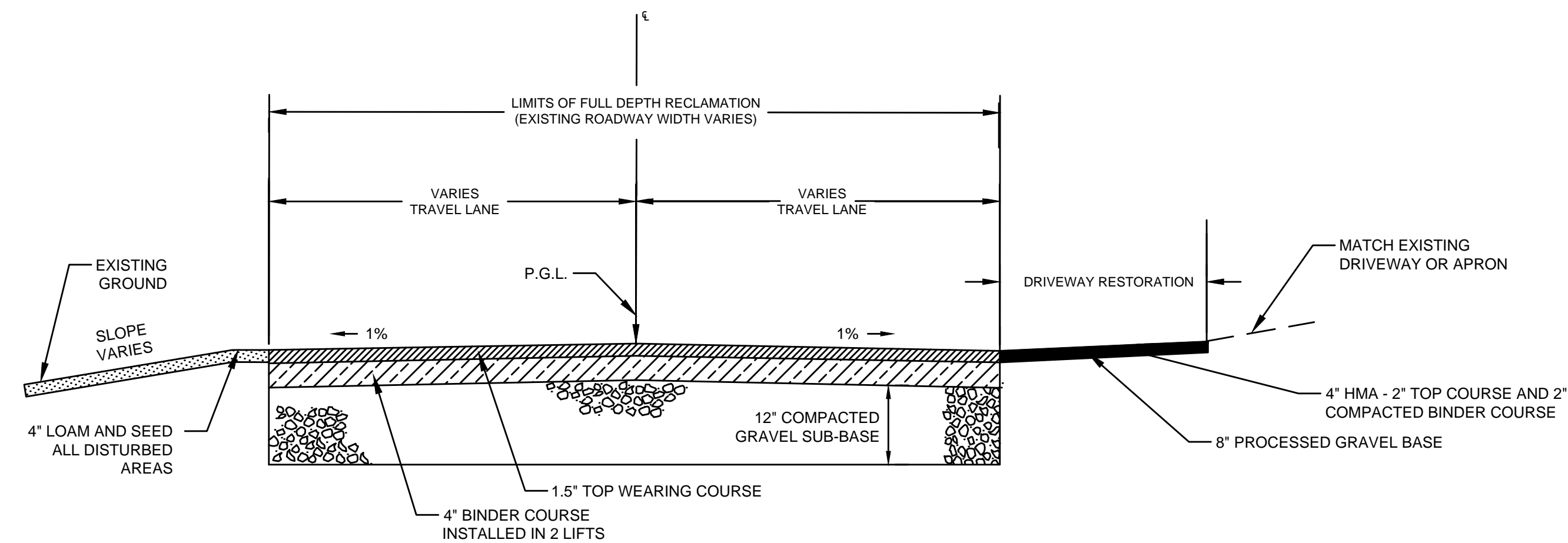


NOTES:
1. ALL SAW CUT EDGES SHALL BE CLEAN EDGES.

NOTES:
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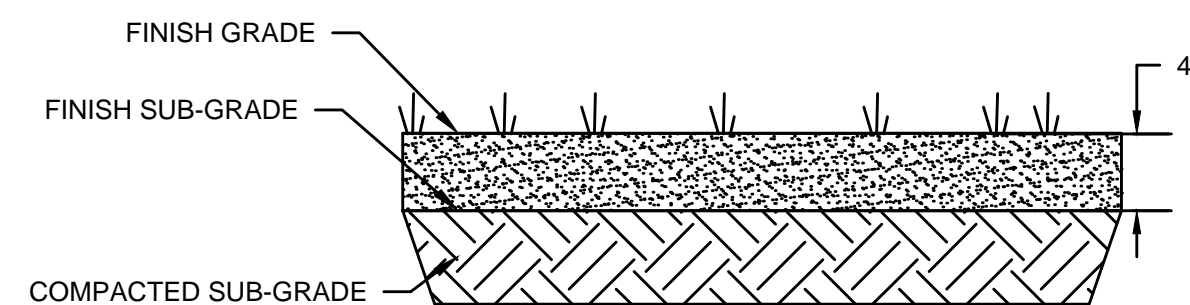
**SEA STREET THROUGH ATLANTIC AVENUE
TEMPORARY TRENCH RESTORATION PAVEMENT**
SCALE: N.T.S.

**SURFSIDE ROAD AND SOUTH SHORE ROAD
TEMPORARY TRENCH RESTORATION PAVEMENT**
SCALE: N.T.S.



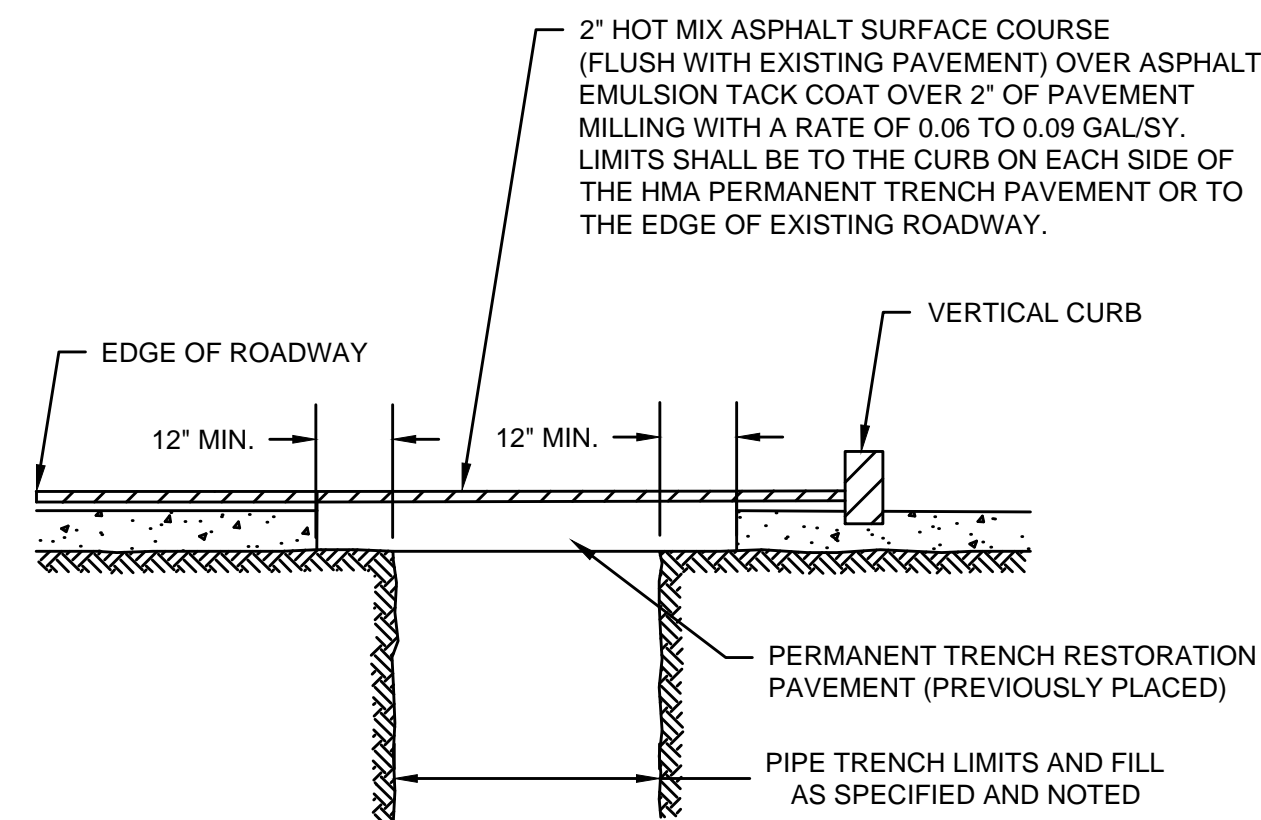
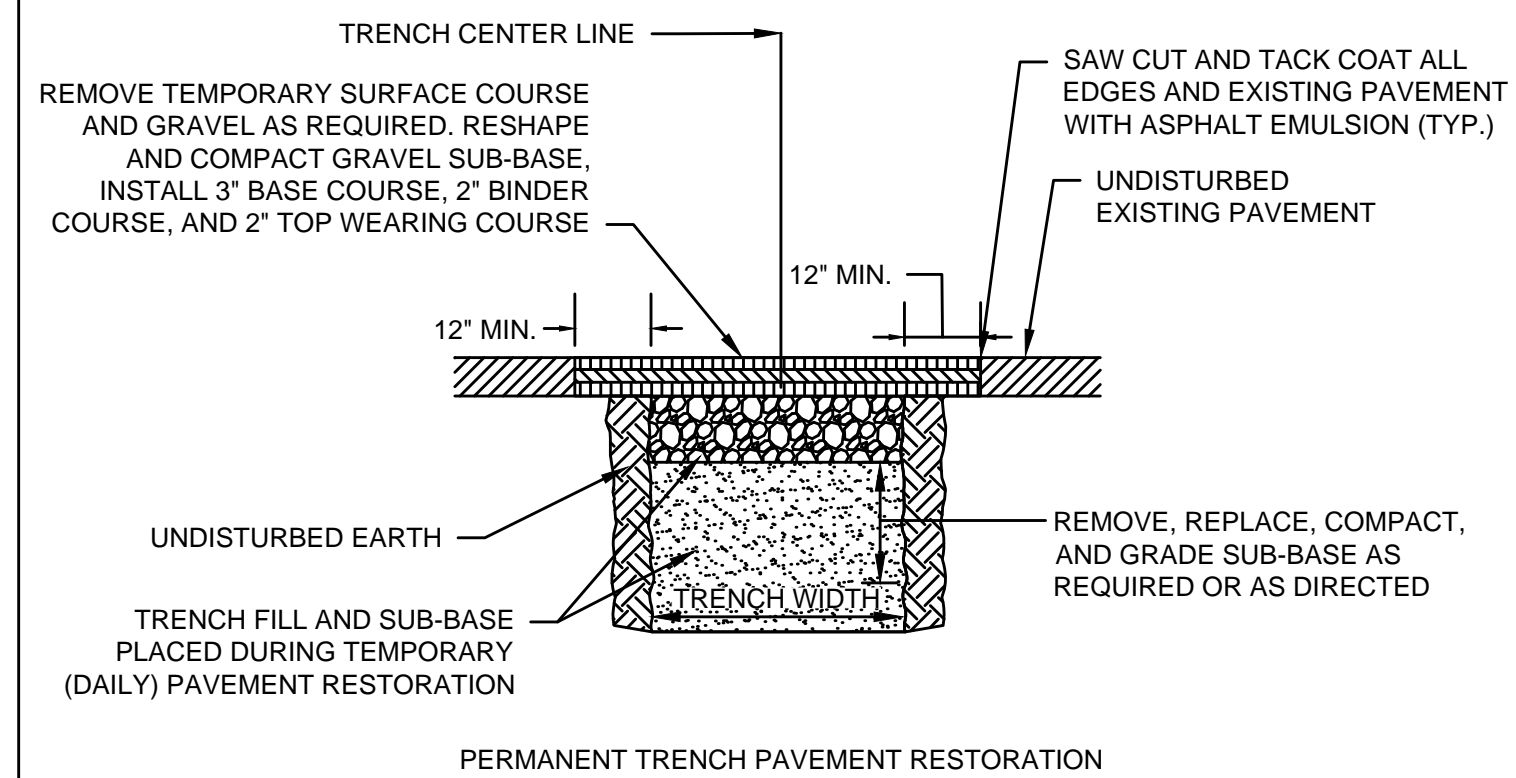
NOTES:
1. PULVERIZE EXISTING MATERIAL TO A MINIMUM DEPTH OF 12 INCHES. REMOVE EXCESS MATERIAL TO MEET FINISHED GRADES.
2. ROUGH AND FINE GRADE AS REQUIRED TO MEET FINISHED GRADES.
3. COMPACT SUB-BASE TO A MINIMUM OF 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED IN THE LABORATORY USING MODIFIED PROCTOR ASTM D1557.
4. INSTALL 4\"/>

**SEA STREET THROUGH ATLANTIC AVENUE
FULL DEPTH RECLAMATION TYPICAL PAVEMENT SECTION**
SCALE: N.T.S.



NOTES:
1. SEED MIX SHALL BE NEW ENGLAND CONSERVATION SEED MIX, FREE OF FERTILIZERS.
2. LOAM SHALL BE NATIVE TO LOCAL AREA AND OF LOW NITROGEN CONTENT.
3. INSTALL CURLEX CL EROSION CONTROL BLANKET AS MANUFACTURED BY AMERICAN EXCELSIOR COMPANY (OR APPROVED EQUAL) ON ALL LOAM AND SEEDED SLOPES 3:1 OR STEEPER.

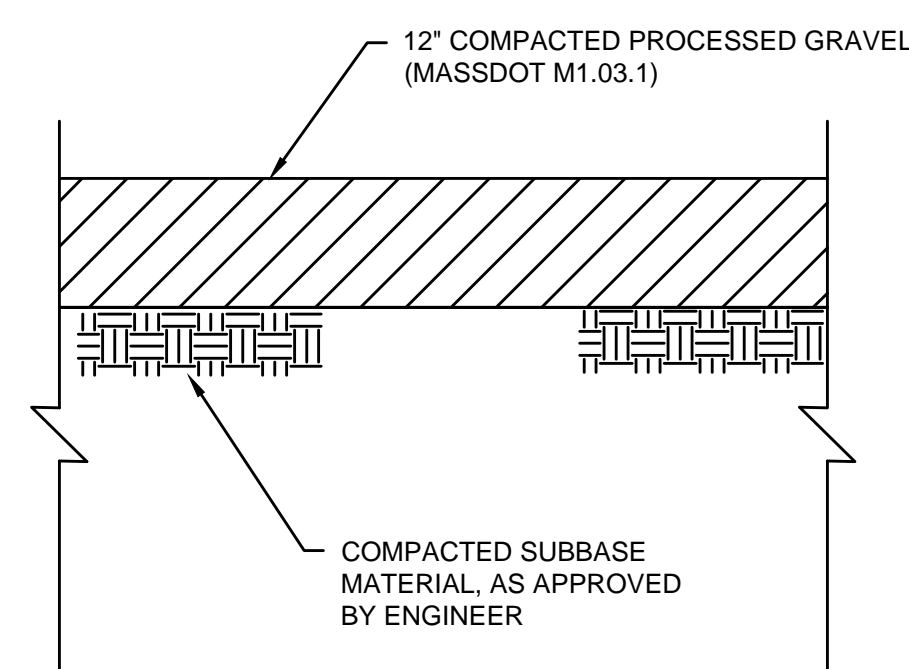
LOAM AND SEED (DISTURBED AREAS)
SCALE: N.T.S.



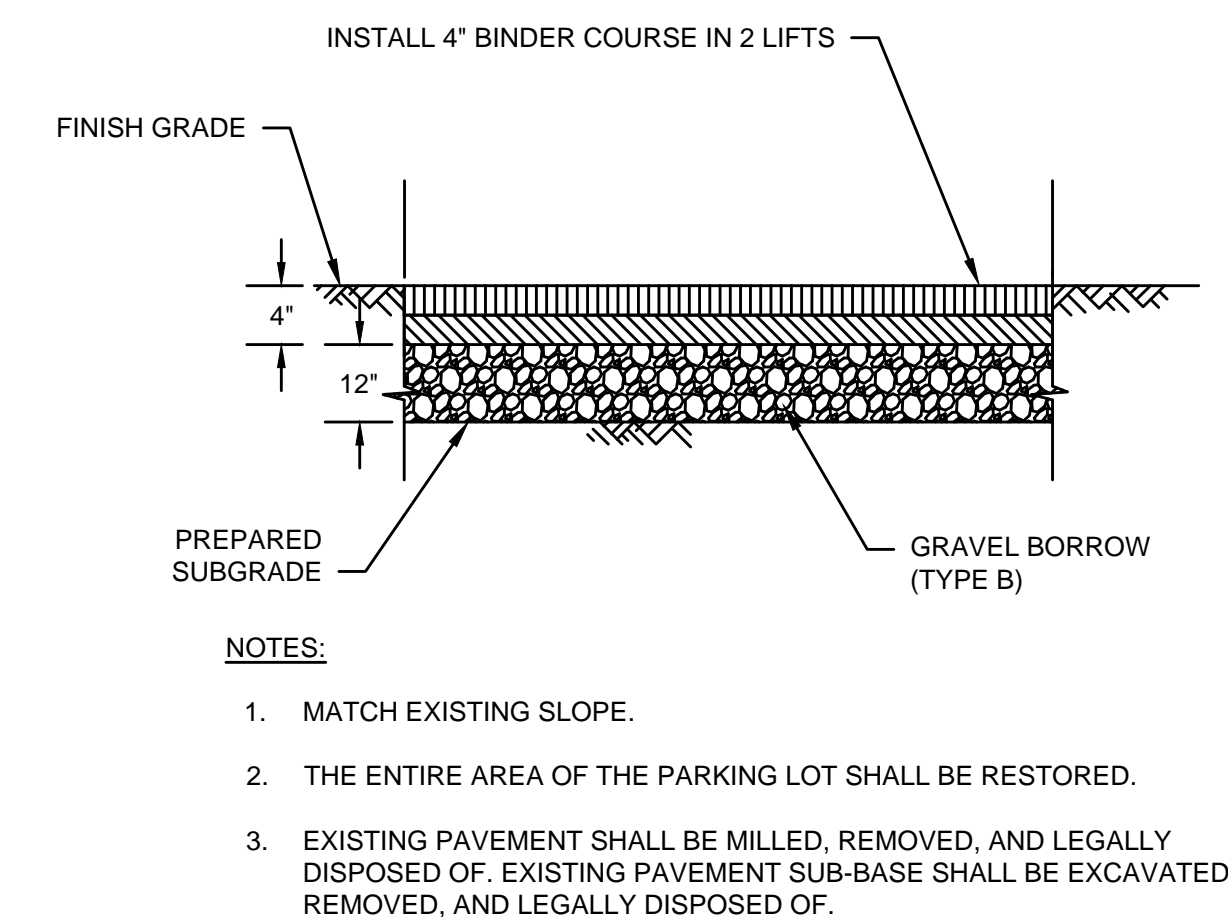
NOTES:
1. RESTORE AND MATCH CROSS SLOPE.
2. ALL HMA JOINTS SHALL BE SEALED WITH JOINT SEALANT.

**SURFSIDE ROAD AND SOUTH SHORE ROAD
PERMANENT TRENCH RESTORATION PAVEMENT**
SCALE: N.T.S.

**SOUTH SHORE ROAD
MILL AND OVERLAY DETAIL**
SCALE: N.T.S.



GRAVEL DRIVEWAY
SCALE: N.T.S.



NOTES:
1. MATCH EXISTING SLOPE.
2. THE ENTIRE AREA OF THE PARKING LOT SHALL BE RESTORED.
3. EXISTING PAVEMENT SHALL BE MILLED, REMOVED, AND LEGALLY DISPOSED OF. EXISTING PAVEMENT SUB-BASE SHALL BE EXCAVATED, REMOVED, AND LEGALLY DISPOSED OF.

SILVER STREET PARKING LOT DETAIL
SCALE: N.T.S.



ENVIRONMENTAL PARTNERS
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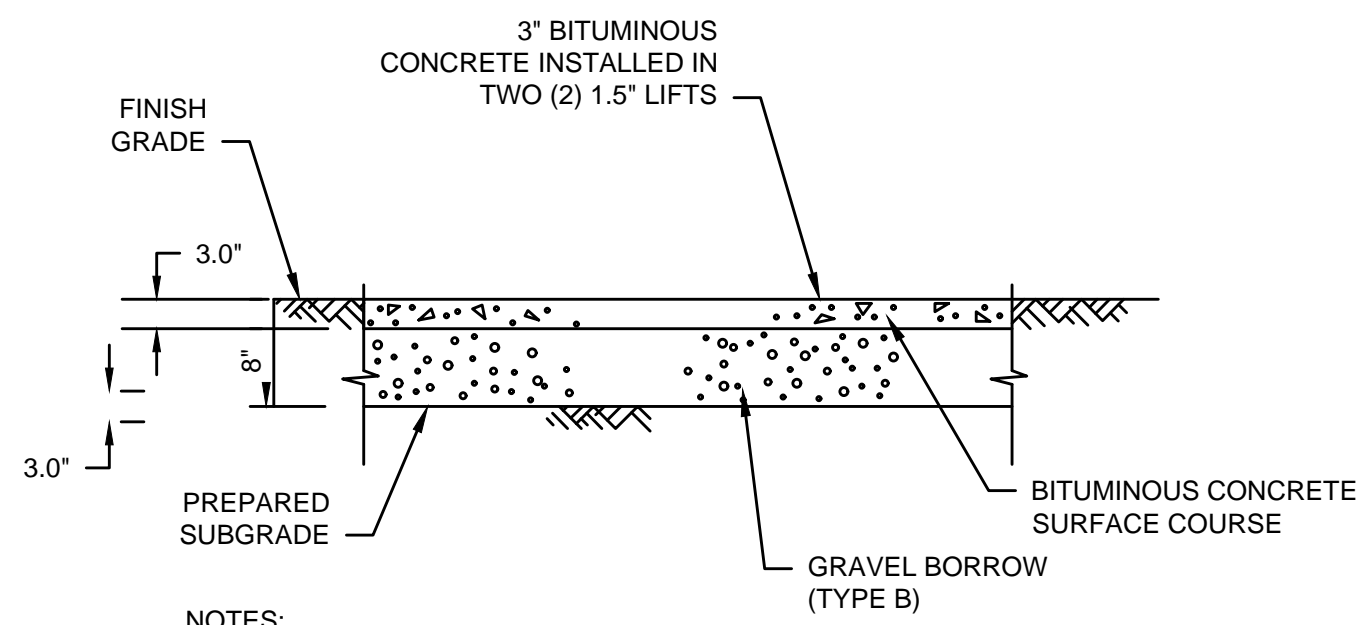
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**SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA**

SURFACE RESTORATION DETAILS I

FOR CONSTRUCTION
Sheet No.

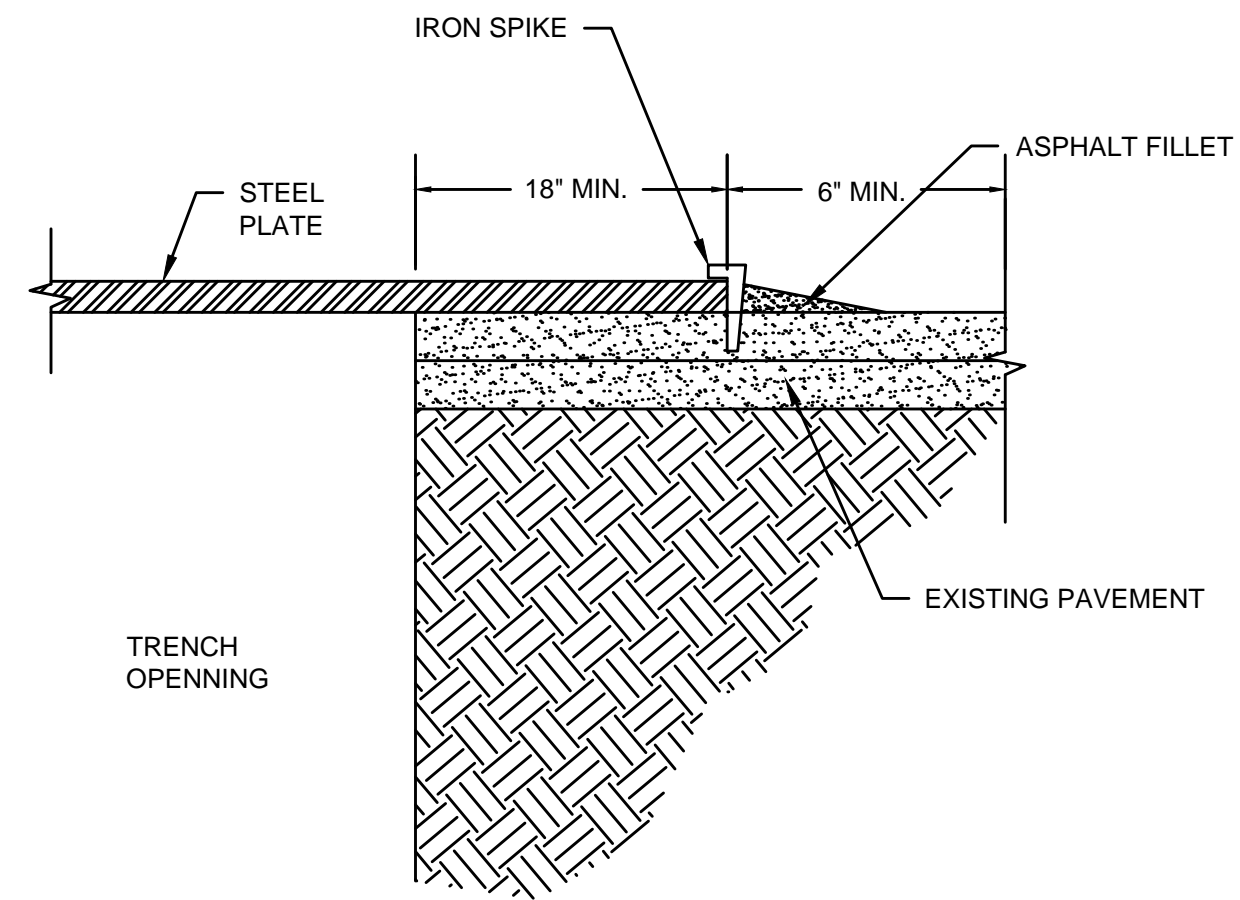
CD-10



- NOTES:**
1. MATCH EXISTING SLOPE (MIN 3/16"/FT)
 2. SEE VERTICAL CURB DETAIL FOR METHODS OF SETTING CURBS.
 3. MATCH EXISTING SIDEWALK WIDTH. THE ENTIRE WIDTH OF ANY DISTURBED SIDEWALK SHALL BE RESTORED.

BITUMINOUS CONCRETE SIDEWALK SECTION

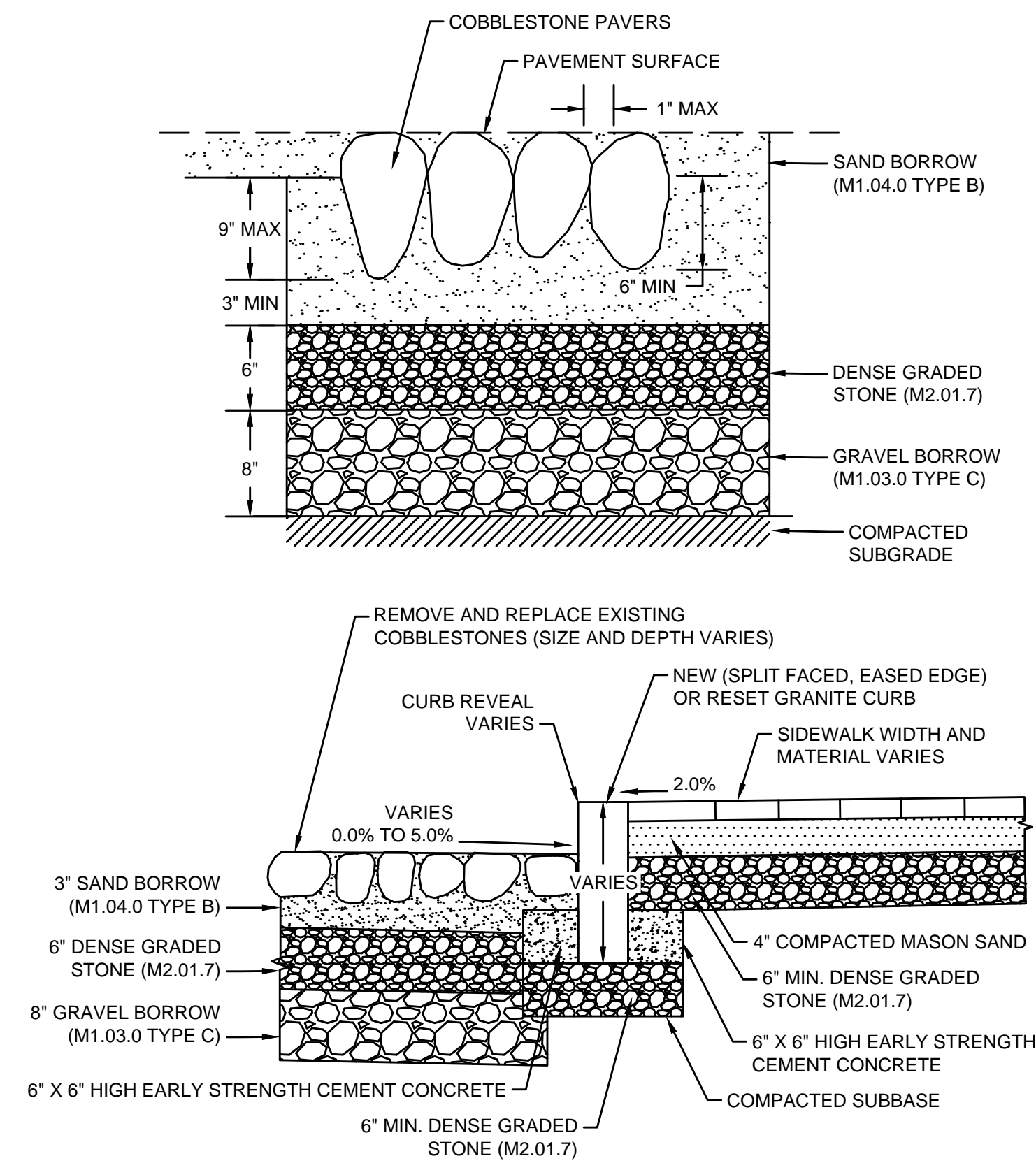
SCALE: N.T.S.



- NOTES:**
1. USE OF STEEL PLATES ALLOWED ON A CASE BY CASE BASIS, PENDING WRITTEN APPROVAL BY TOWN.
 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES OR CLAIMS RESULTING FROM THE USE OF STEEL PLATES.
 3. MUTCD COMPLIANT RETROREFLECTIVE ORANGE CONSTRUCTION WARNING SIGNS (48"x48") WITH WORDING "STEEL PLATE AHEAD" SHALL BE INSTALLED IN ADVANCE OF STEEL PLATE INSTALLATION.
 4. THE CONTRACTOR SHALL DESIGN AND UTILIZE STEEL PLATES OF ADEQUATE DIMENSIONS AND THICKNESS FOR INTENDED USE AND VEHICLE LOADING. MAXIMUM ALLOWABLE DEFLECTION SHALL BE 0.025". IRON SPIKE FASTENERS SHALL BE INSTALLED AROUND THE PERIMETER OF THE STEEL PLATE.

STEEL PLATE INSTALLATION

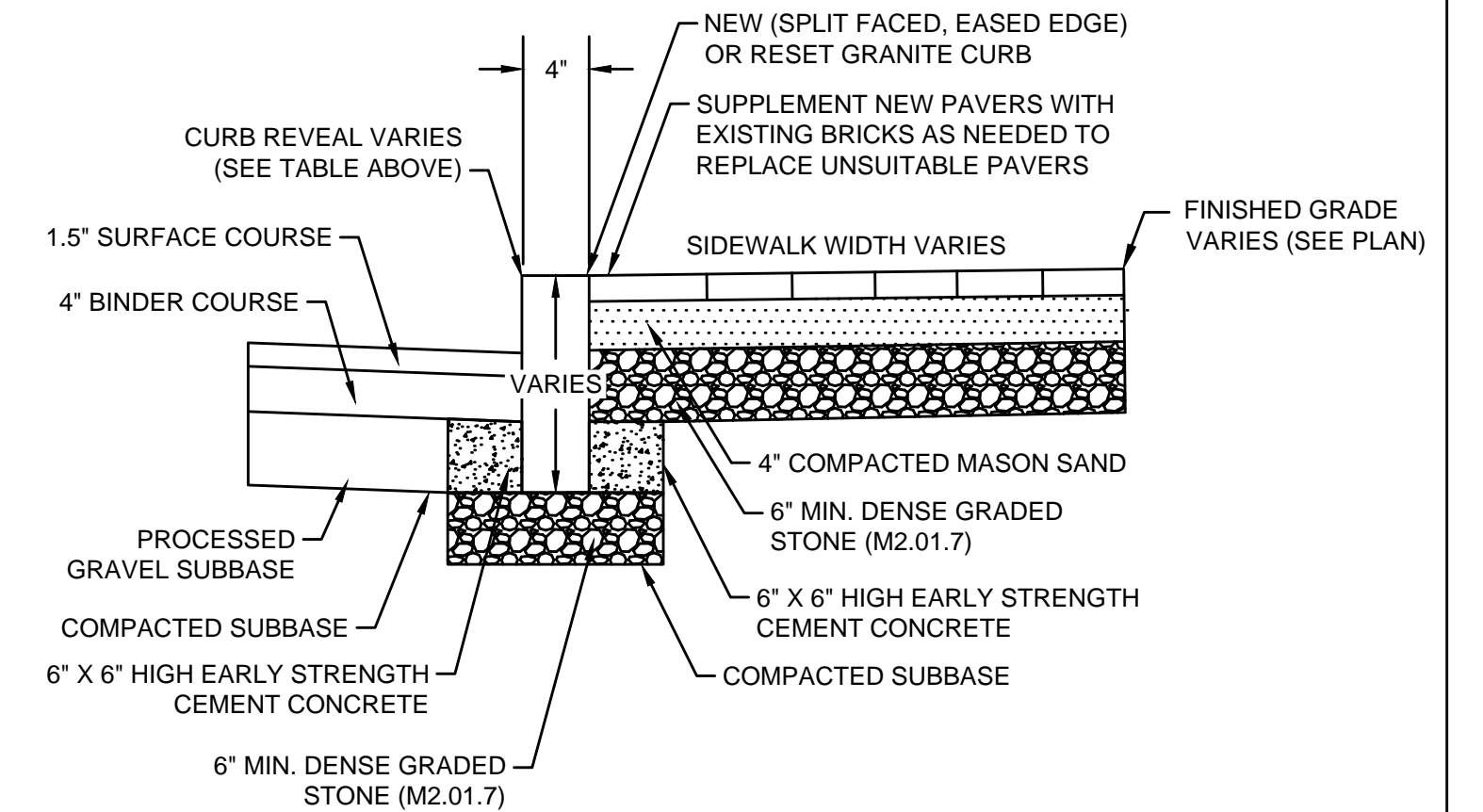
SCALE: N.T.S.



PERVIOUS COBBLESTONE PAVEMENT

SCALE: N.T.S.

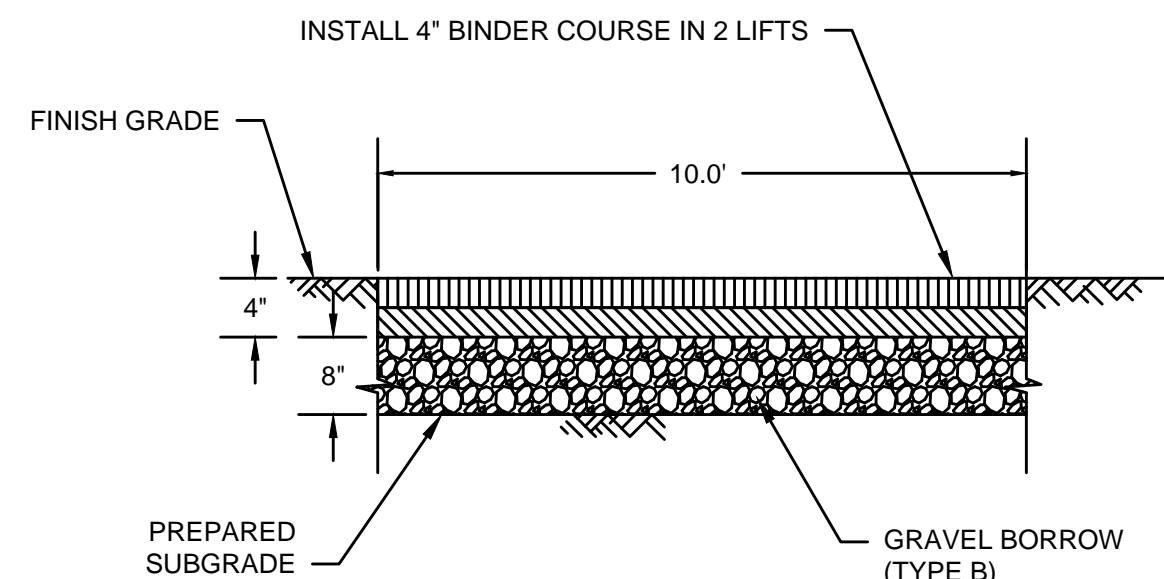
CURB REVEAL	
DESCRIPTION	REVEAL (IN)
NEW VERTICAL GRANITE CURB	3
REMOVE AND RESET VERTICAL GRANITE CURB	3
ISOLATED AREA/SERVICE TRENCH	MATCH EXISTING/ADJACENT REVEAL



- NOTES:**
1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 2.0%.
 2. MAINTAIN A MINIMUM OF 30" CLEAR AT ANY PERMANENT OBSTACLE IN ACCESS ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.). REPORT ALL CONFLICTS TO THE ENGINEER IMMEDIATELY.
 3. EXISTING CURBING THAT IS 8-INCHES IN DEPTH SHALL HAVE CEMENT CONCRETE ONLY ON THE BACK SIDE OF CURB. EXISTING CURBING THAT IS 12-INCHES IN DEPTH SHALL HAVE CEMENT CONCRETE ON BOTH THE FRONT AND BACK SIDES OF CURB, AS SHOWN ABOVE. HEIGHT OF THE CEMENT CONCRETE SHALL BE ADJUSTED AS NECESSARY IN THE FIELD.
 4. BRICK WHEELCHAIR RAMPS SHALL CONFORM TO MHD SECTION 701 (SEE SPECIFICATION SECTION 02576).

BRICK SIDEWALK AND VERTICAL GRANITE CURB

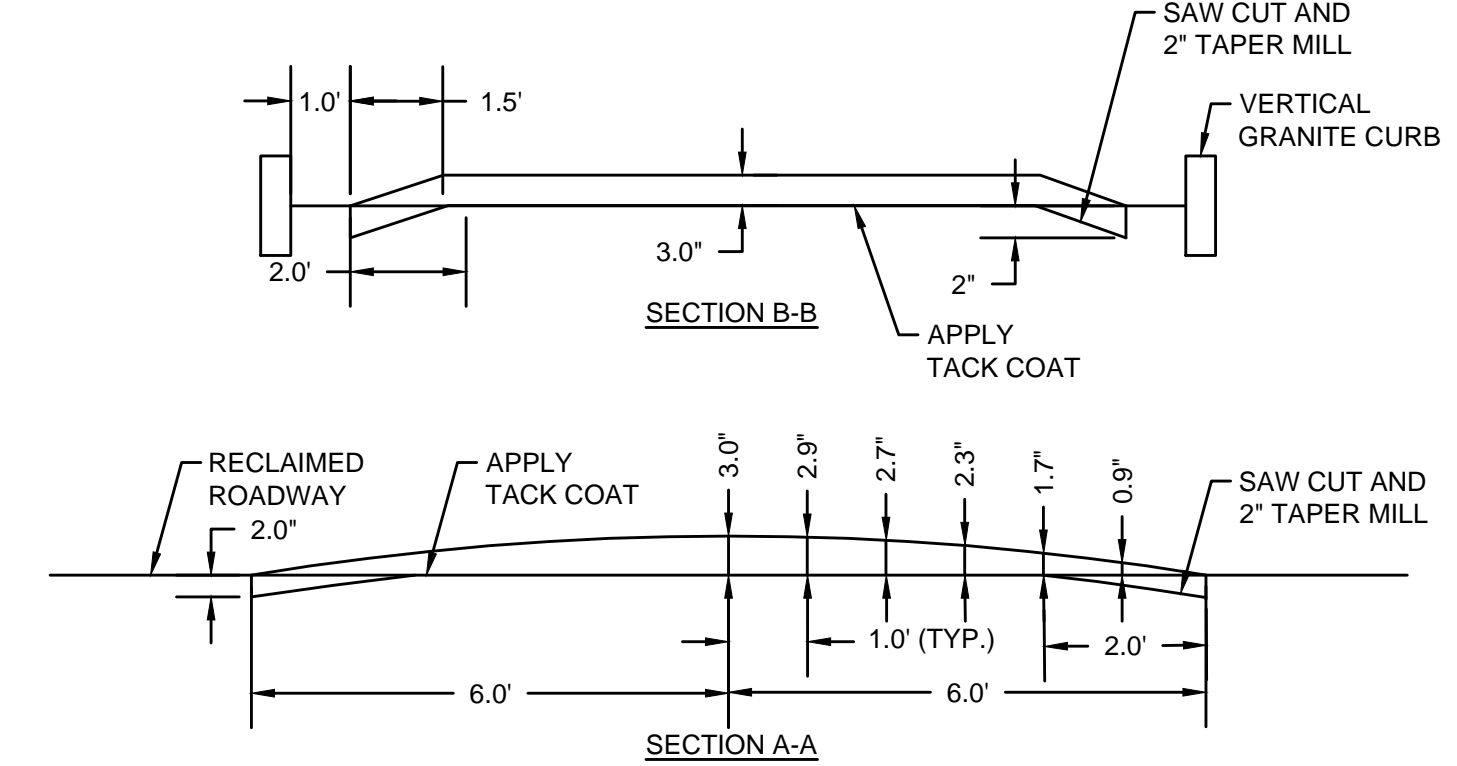
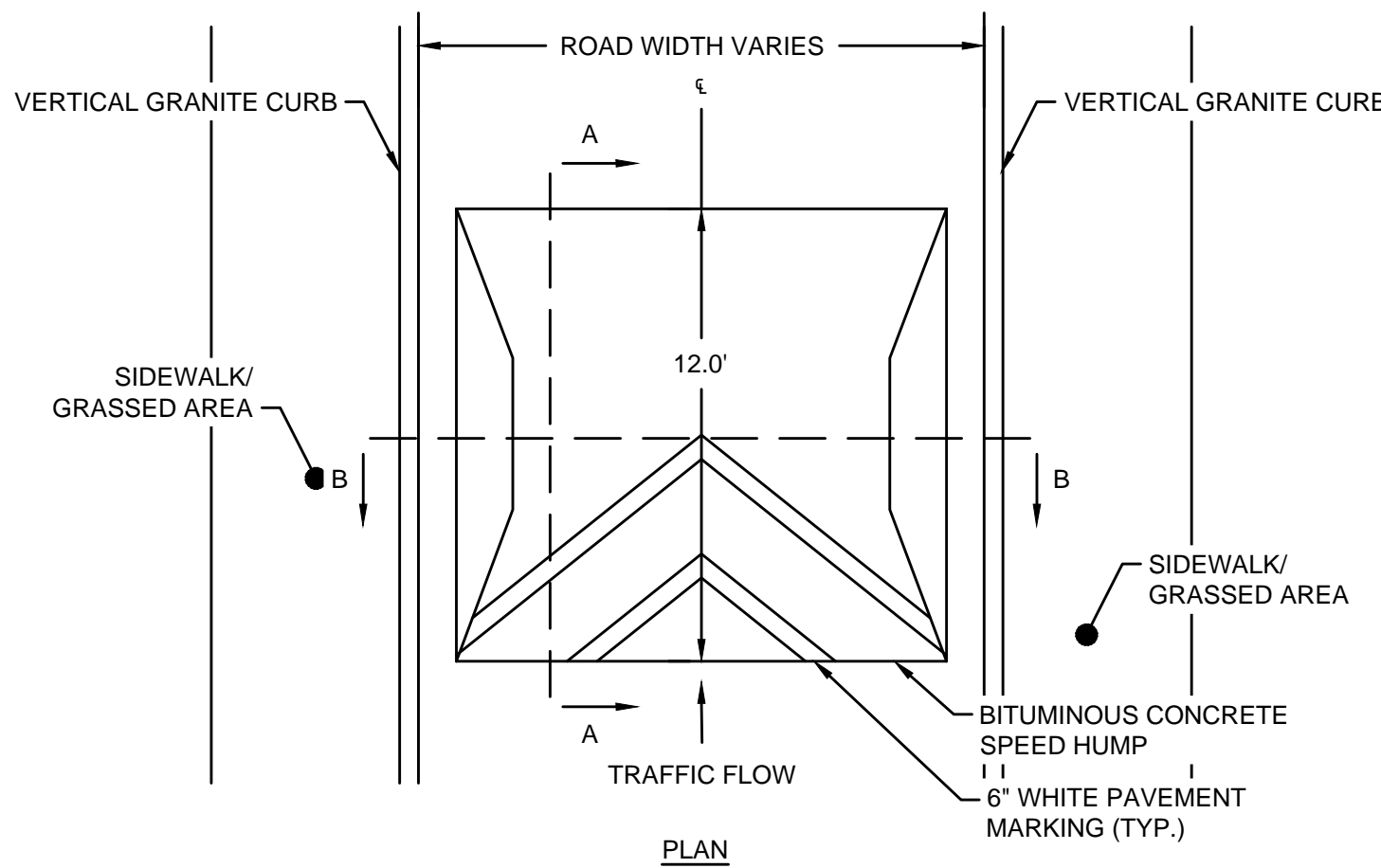
SCALE: N.T.S.



- NOTES:**
1. MATCH EXISTING SLOPE (MIN 3/16"/FT)

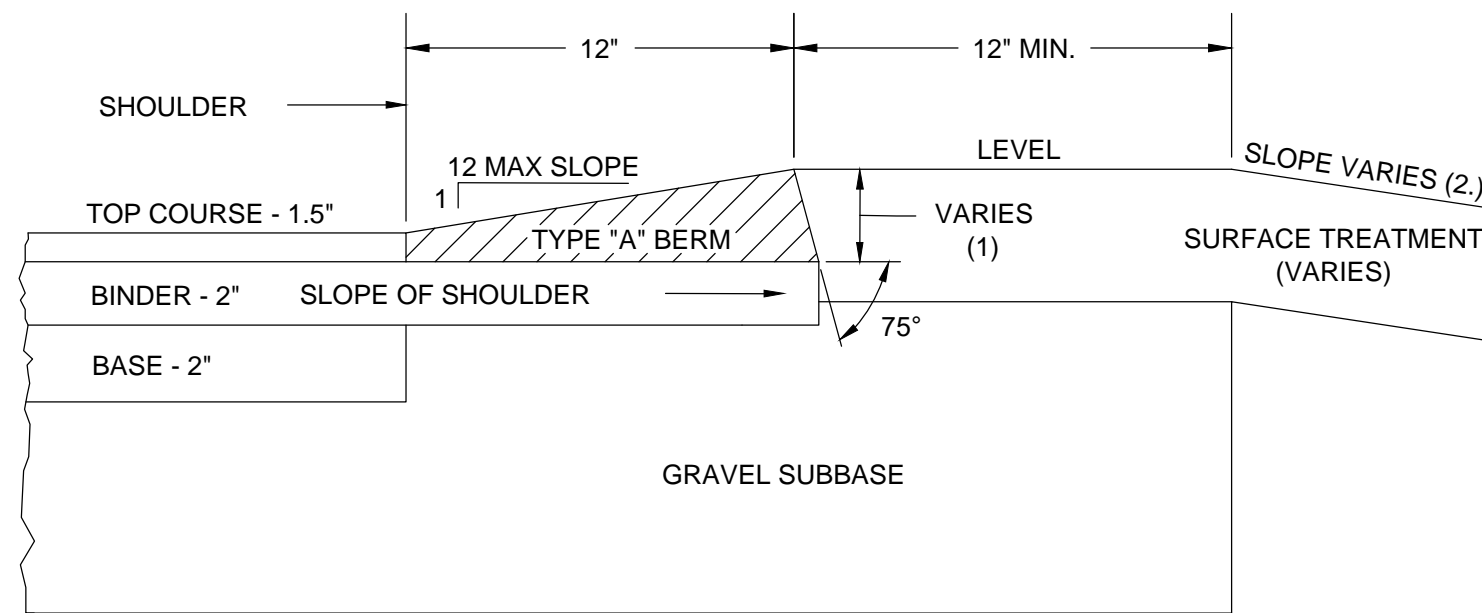
BIKE PATH RESTORATION

SCALE: N.T.S.



LILY STREET BITUMINOUS CONCRETE SPEED TABLE

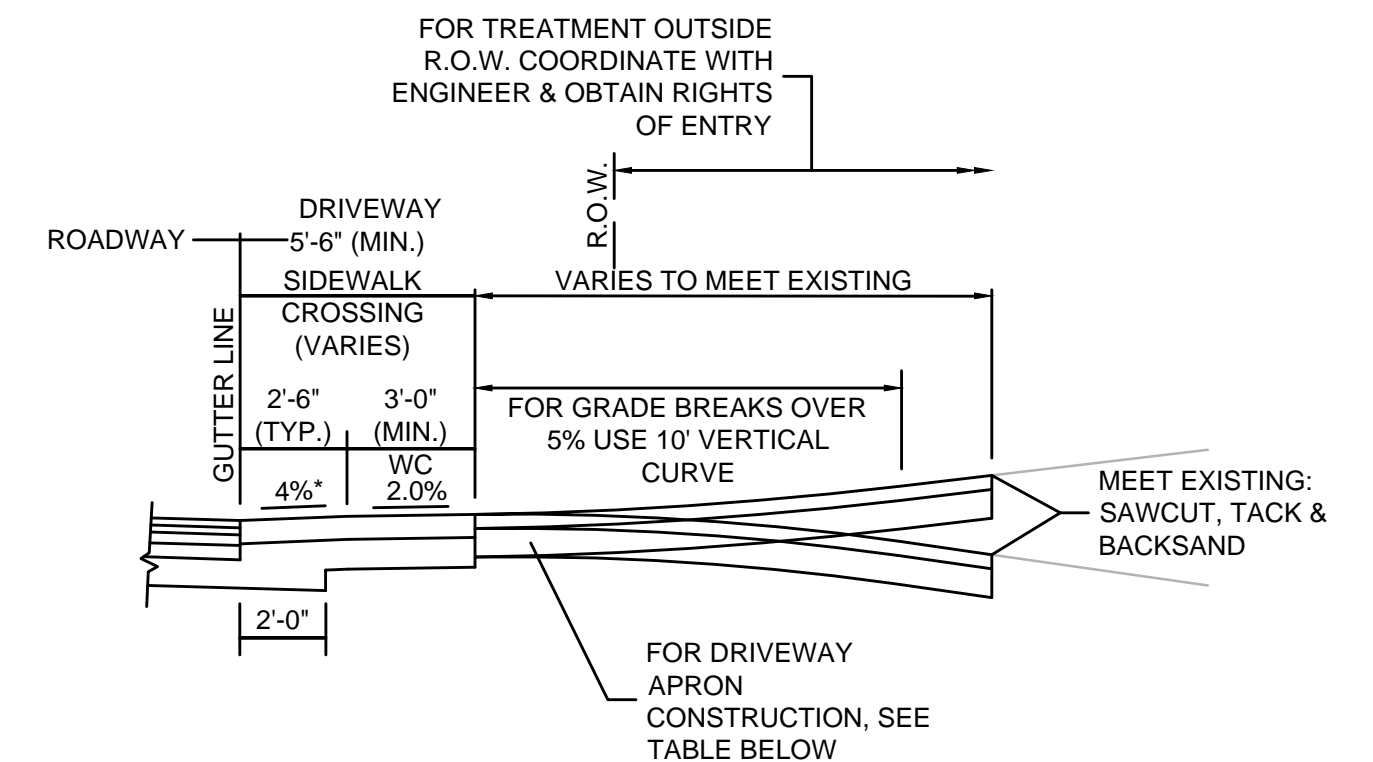
SCALE: N.T.S.



- NOTES:**
1. FOR MODIFIED BERMS THE SLOPE REMAINS CONSTANT AT 1 (V) TO 12 (H)
 2. THIS DIMENSION VARIES WITH THE THICKNESS OF THE TOP COURSE AND SLOPE OF BINDER

BITUMINOUS CONCRETE CAPE COD BERM

SCALE: N.T.S.



- DRIVEWAY APRON CONSTRUCTION**
- SURFACE: 4" HOT MIX ASPHALT (2" TOP COURSE MATERIAL OVER 2" BINDER COURSE MATERIAL)
- SUBBASE: 8" GRAVEL BORROW (TYPE "B")
- WC = WHEELCHAIR (PATHWAY)
- R.O.W. = RIGHT OF WAY
- * - DRIVEWAY APRON SLOPE TOWARDS ROADWAY MAY VARY TO MEET FIELD CONDITIONS
- DRIVEWAY APRONS SHALL BE CONSTRUCTED OF HOT MIX ASPHALT UNLESS PRIOR WRITTEN APPROVAL IS GRANTED BY DPW.

DRIVEWAY APRON DETAIL

SCALE: N.T.S.



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	FJB
Drawn by	FJB
Checked by	RJR/PCM/RJA
Approved by	ZFK

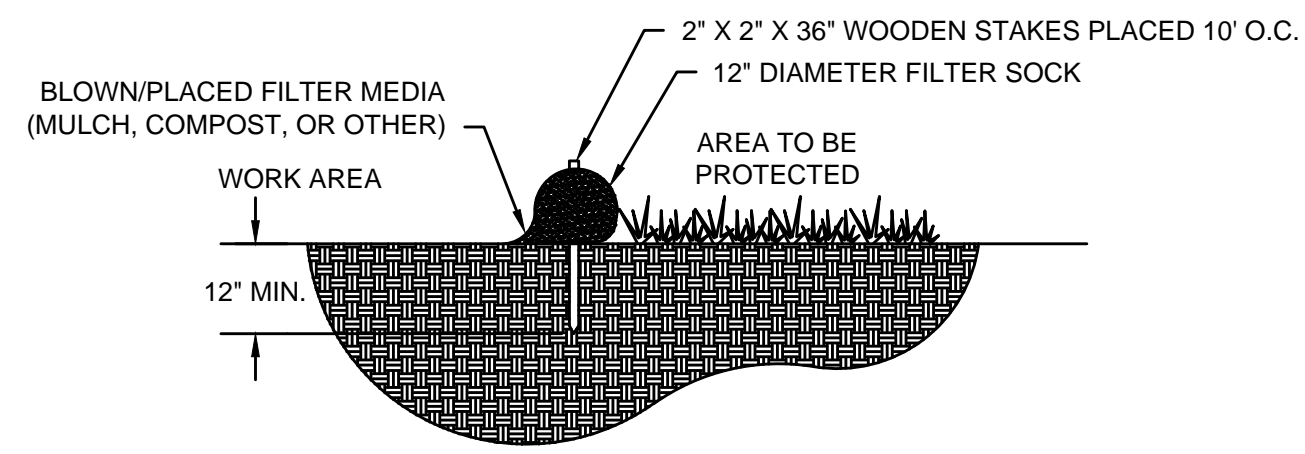
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**SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA**

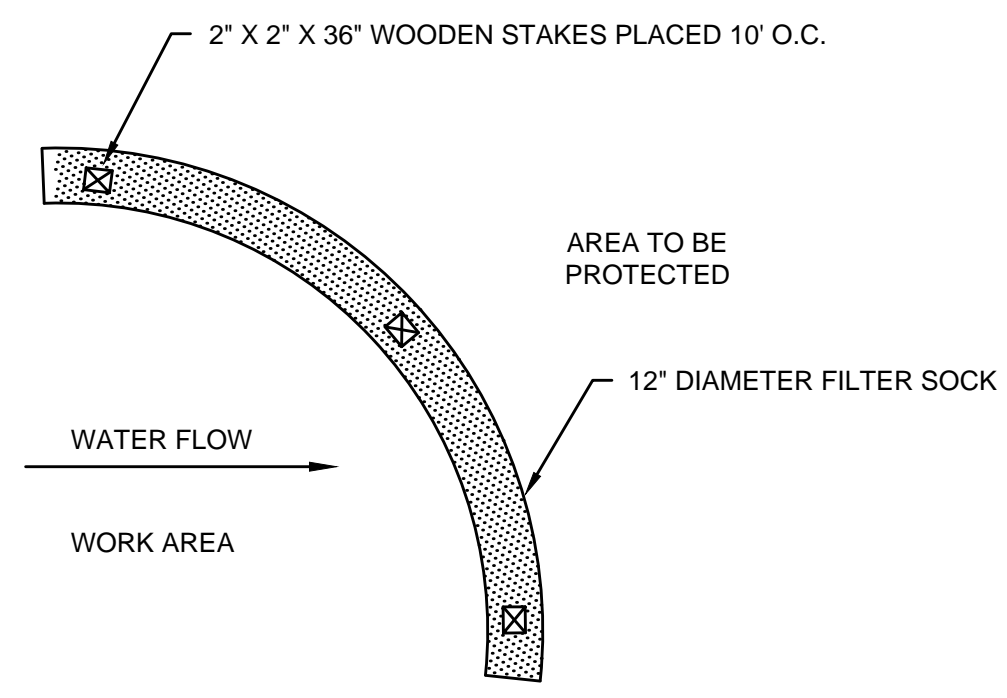
SURFACE RESTORATION DETAILS II

FOR CONSTRUCTION
Sheet No.

CD-11



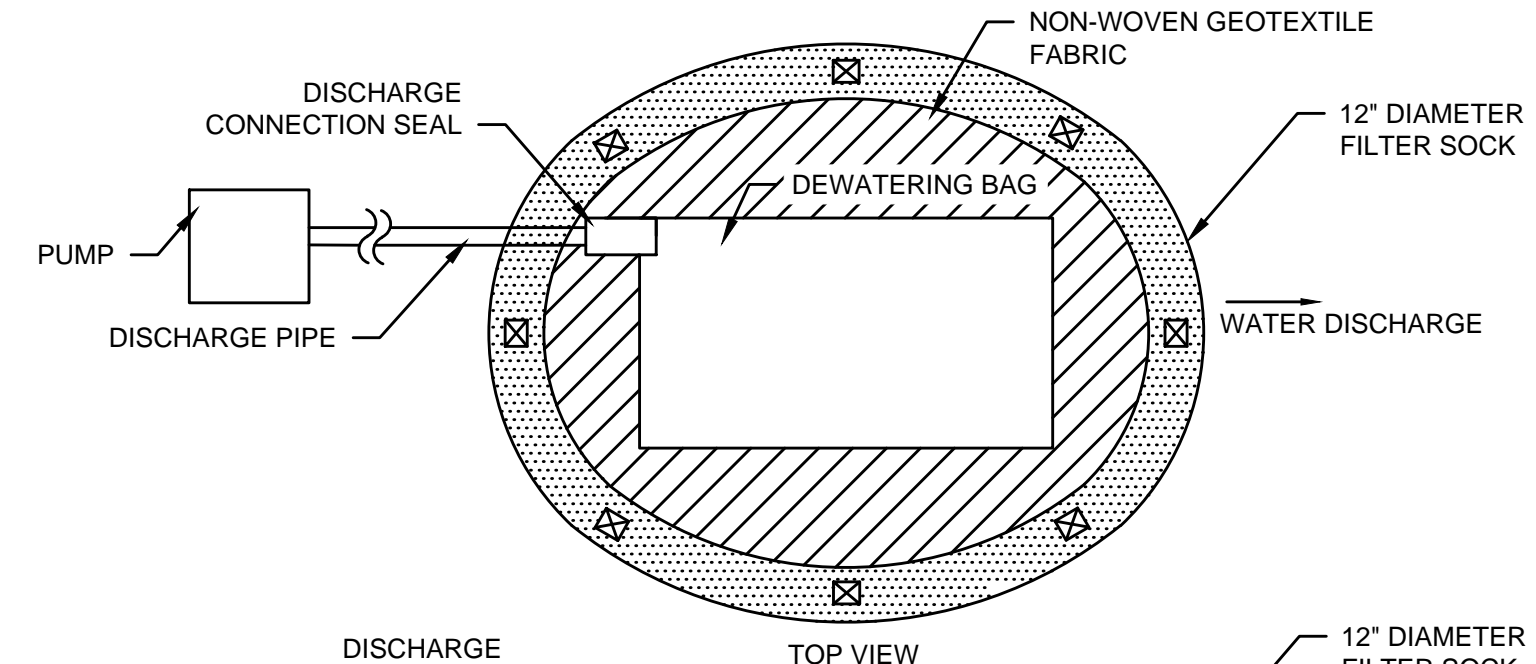
SECTION



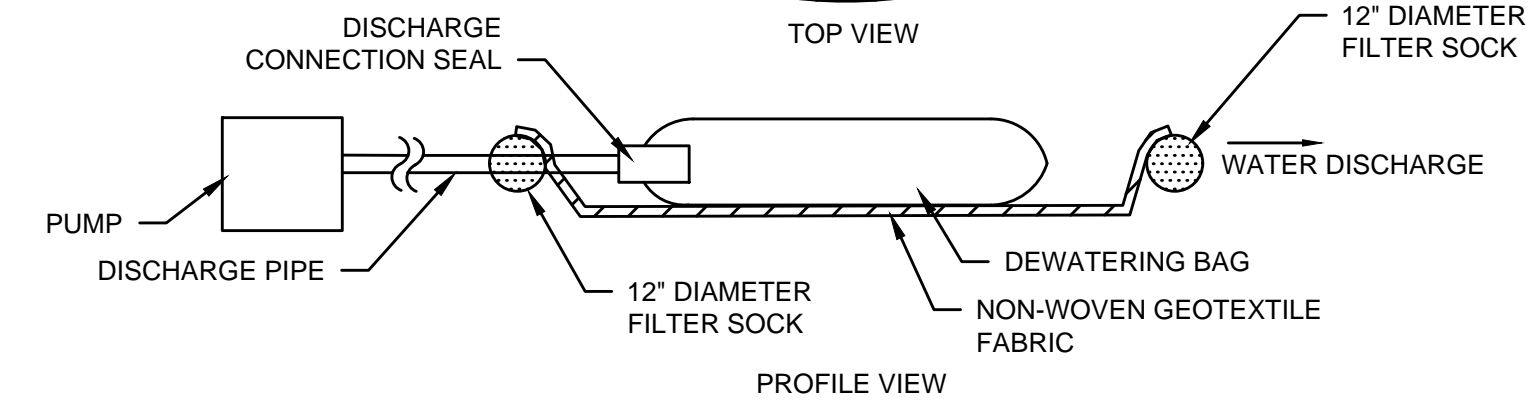
PLAN

12" DIAMETER FILTER SOCK (AS REQUIRED)

SCALE: N.T.S.



TOP VIEW



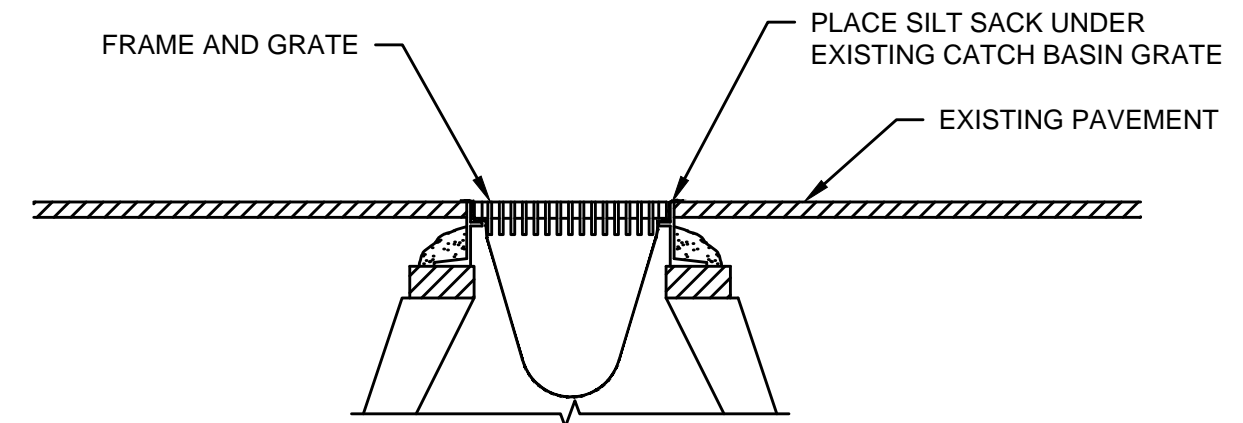
PROFILE VIEW

NOTES:

1. DEWATERING BAG SIZE AND QUANTITY SHALL BE AS NEEDED TO ADEQUATELY FILTER ALL PUMP EFFLUENT FROM DEWATERING ACTIVITIES. CONTRACTOR SHALL PROVIDE A REDUNDANT BAG ON SITE AT ALL TIMES.
2. EACH BAG SHALL HANDLE A 2", 3", OR 4" DISCHARGE HOSE.
3. DISCHARGE HOSES CAN BE PLACED ALONG ANY EDGE BY MAKING A SMALL INCISION INTO THE FABRIC, INSERTING THE HOSE, AND THEN CLAMPING THE FABRIC TO THE HOSE VIA WIRE, TIES, CLAMP, ROPE OR SIMILAR TO CREATE A GOOD SEAL.
4. CONTRACTOR SHALL AVOID DISCHARGING MULTIPLE PIPES INTO ONE BAG.

DEWATERING BAGS

SCALE: N.T.S.

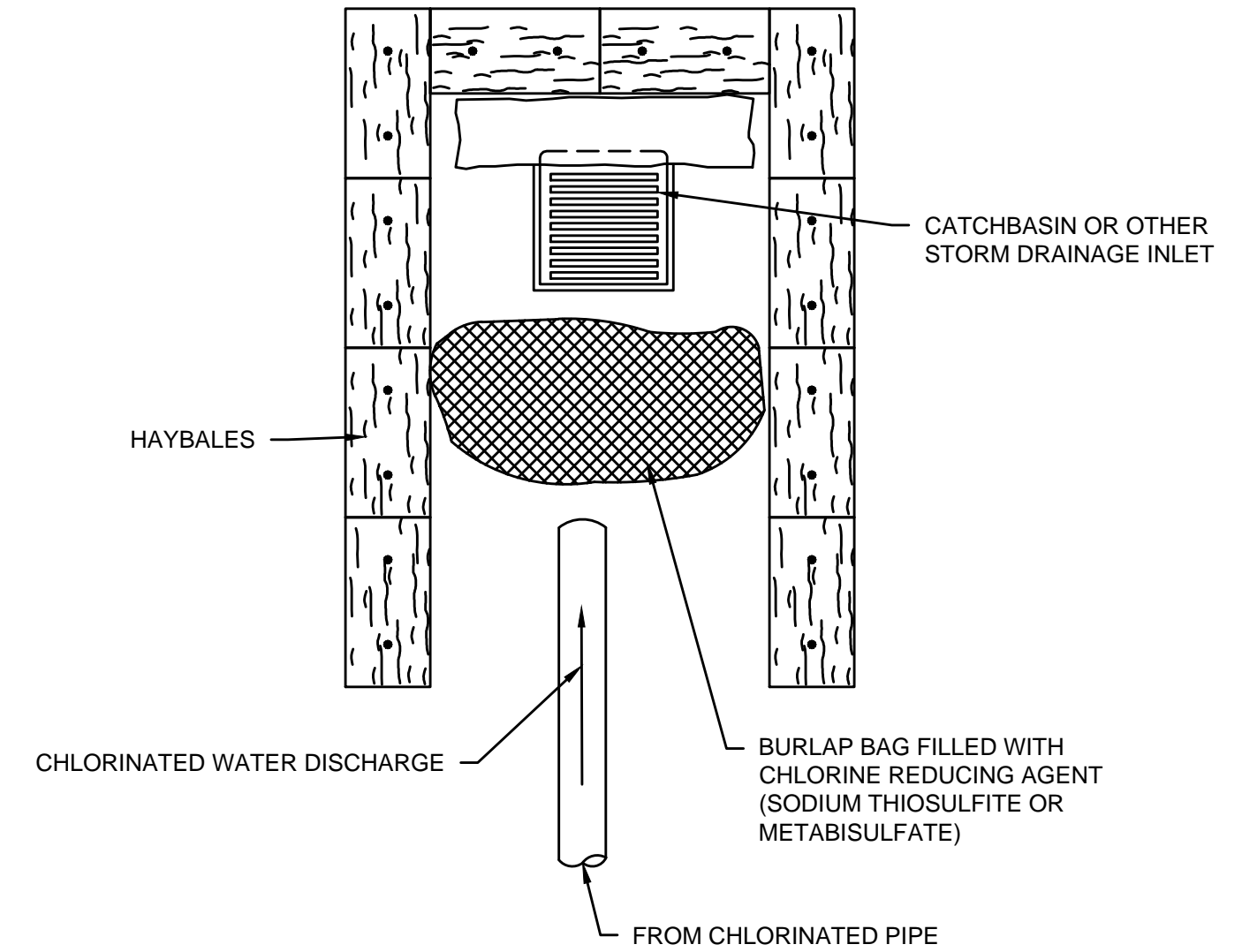


NOTES:

1. SILT SACKS SHALL BE INSPECTED WEEKLY AND AFTER A STORM. ACCUMULATED SILT REMOVED TO ALLOW CATCH BASIN TO FUNCTION PROPERLY.
2. SILT SACK HIGH FLOW MODEL AS MANUFACTURED BY ACF ENVIRONMENTAL (800-448-3636) OR APPROVED EQUAL.

SEDIMENTATION CONTROL AT CATCH BASINS

SCALE: N.T.S.



DECHLORINATION AND DISCHARGE

SCALE: N.T.S.



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**SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA**

ENVIRONMENTAL PROTECTION DETAILS I

FOR CONSTRUCTION
Sheet No.

CD-12

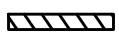
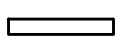
GENERAL TRAFFIC MANAGEMENT NOTES:

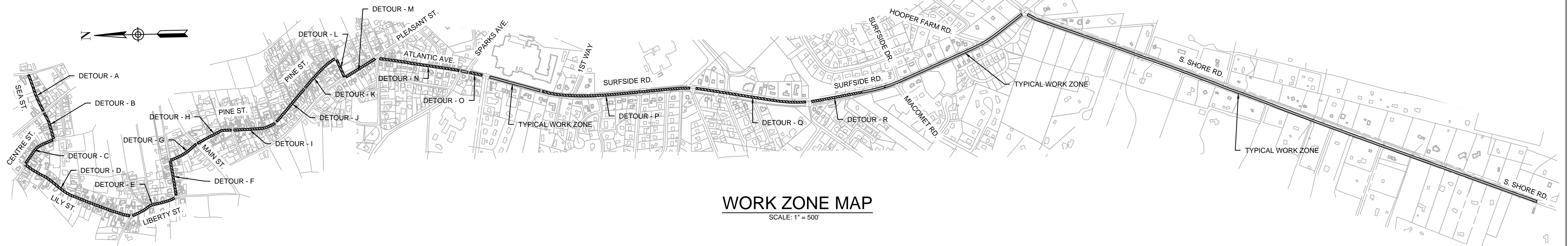
- EXCEPT FOR WORK CONDUCTED BETWEEN THE INTERSECTION OF SILVER STREET AND PLEASANT STREET AND THE INTERSECTION OF SURFSIDE ROAD AND MIACOMET ROAD, CONSTRUCTION WORK HOURS WILL BE MONDAY THROUGH FRIDAY FROM 7AM TO 5PM. CONSTRUCTION WORK HOURS FOR WORK BETWEEN THE INTERSECTION OF SILVER STREET AND PLEASANT STREET AND THE INTERSECTION OF SURFSIDE ROAD AND MIACOMET ROAD WILL BE MONDAY THROUGH FRIDAY FROM 4PM TO 2AM.
- CONTRACTOR SHALL NOTIFY THE TOWN OF NANTUCKET DEPARTMENT OF PUBLIC WORKS, AND THE POLICE AND FIRE DEPARTMENTS DAILY PRIOR TO ANY LANE CLOSURES OR ROAD CLOSURES. CONTRACTOR TO PROVIDE DAILY UPDATES FOR ANTICIPATED DURATION OF CLOSURES AND ESTIMATED TIME OF REOPENING TO THE ABOVE MENTIONED EMERGENCY SERVICES AND ANY OTHER DEPARTMENTS AS DIRECTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ABUTTERS WITHIN THE CLOSURE STREETS IN ADVANCE OF ANY ROADWAY CLOSURES AND/OR DETOURS.
- CONTRACTOR SHALL NOTIFY ABUTTERS ALONG STREETS WITH TEMPORARY DIRECTIONAL MODIFICATIONS THAT TWO-WAY TRAFFIC WILL BE ALLOWED DURING DETOUR OPERATIONS TO MAINTAIN ACCESS TO AND FROM THEIR PROPERTIES. ABUTTERS ARE TO PROCEED WITH CAUTION ALONG ALL STREETS IMPACTED BY DETOUR OPERATIONS.
- ROAD CLOSURES ARE ANTICIPATED THROUGHOUT THE PROJECT. DETOUR ROUTES SHOWN HEREIN ARE FOR BIDDING AND PLANNING PURPOSES ONLY. ANY PROPOSED CHANGES OR REVISIONS TO WHAT IS SHOWN OR OUTLINED IN THE TRAFFIC MANAGEMENT PLANS SHALL BE SUBMITTED TO THE TOWN AND/OR ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION.
- CONTRACTOR SHALL ONLY CLOSE PORTIONS OF ROADWAYS THAT ARE ANTICIPATED TO BE WORKED ON THAT DAY.
- ADDITIONAL SIGNAGE AND NOTIFICATIONS MAY BE REQUIRED FOR SIDE STREETS ALONG ROAD CLOSURES AND DETOUR ROUTES AS REQUIRED BY THE ENGINEER OR TOWN.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN ACCORDANCE WITH THE LATEST EDITION AND REVISIONS OF BOTH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND MASSDOT STANDARDS.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- THE CONTRACTOR SHALL MAINTAIN ACCESS AND EGRESS AT ALL TIMES TO ALL PROPERTIES AND ROADWAYS ABUTTING THE WORK ZONE UNLESS OTHERWISE APPROVED BY THE OWNER AND/OR ENGINEER.
- ALL SPACING MAY BE ADJUSTED TO FIT FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER. MINIMUM DISTANCES HOWEVER SHOULD BE MAINTAINED WHERE INDICATED.
- MINIMUM LANE WIDTHS CONSIST OF THE CLEARANCE BETWEEN CHANNELIZING DEVICES SUCH AS DRUMS AND SHALL BE PROVIDED AT ALL TIMES.
- EXISTING PEDESTRIAN WALKWAYS SHALL REMAIN OPEN AND CLEAR OF DEBRIS. PEDESTRIANS SHALL BE PROTECTED FROM CONSTRUCTION USING THE APPROPRIATE SAFETY MEASURES AS DIRECTED BY THE ENGINEER. SUCH MEASURES WILL BE CONSIDERED INCIDENTAL TO THE PROJECT. IN LOCATIONS WHERE EXISTING PEDESTRIAN WALKWAYS HAVE BEEN IMPACTED BY CONSTRUCTION, THE ENTIRE WIDTH OF THE PEDESTRIAN WALKWAY SHALL BE RECONSTRUCTED IN KIND WITH A MINIMUM WIDTH OF 5 FEET EXCLUDING CURBING.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORT.
- ALL TEMPORARY SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FORTH IN THE NCHRP 350 REPORT "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES."
- ALL TEMPORARY TRAFFIC CONTROL DEVICES AND ADVANCE WARNING SIGNS SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER NEEDED.
- ONE LANE OF TRAVEL WILL BE MAINTAINED IN CONSTRUCTION LOCATIONS WHERE ADEQUATE WIDTH CAN BE PROVIDED FOR VEHICULAR ACCESS. (SEE TYPICAL LANE CLOSURE DETAIL.)
- AT THE END OF EACH CONSTRUCTION DAY NO TRAFFIC CONTROL DEVICES SHALL REMAIN IN THE ROADWAY; ROADWAYS WILL BE PATCHED OR PLATED AND OPEN TO TRAVEL AT THE END OF EACH WORK DAY.
- MAXIMUM SPACING OF CHANNELIZING DEVICES IS EQUAL (IN FEET) TO THE SPEED LIMIT (MPH) UNLESS OTHERWISE APPROVED BY THE ENGINEER AND/OR TOWN OF NANTUCKET.
- CHANNELIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF REFLECTORIZED PLASTIC DRUMS. PLASTIC DRUMS WITH ANY FORM OF LIGHTING DEVICE MOUNTED ON THEM MUST PASS THE CRITERIA AS SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE (MASH)".
- FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED ON ADVANCE WARNING SIGNS AS DIRECTED BY THE TOWN AND/OR ENGINEER. FLAGS SHALL BE A MINIMUM OF 16" X 16".
- ALL TEMPORARY TRAFFIC CONTROL DEVICES AND ADVANCE WARNING SIGNS SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER NEEDED.
- PAVEMENT MARKINGS CONFLICTING WITH TRAFFIC PATTERNS SHALL BE REMOVED WITHIN THE LIMITS OF PROPOSED TEMPORARY PAVEMENT MARKINGS AS REQUIRED. UPON COMPLETION OF THE STAGE OF CONSTRUCTION, TEMPORARY MARKINGS SHALL BE REMOVED AND PERMANENT PAVEMENT MARKINGS SHALL BE INSTALLED IN THEIR ORIGINAL LOCATION.
- PORTABLE CHANGEABLE MESSAGE BOARDS SHALL BE INSTALLED AND LOCATED AT ALL APPROACHES TO THE WORK ZONES. LOCATIONS AND NUMBER OF MESSAGE BOARDS SHALL BE COORDINATED AND DIRECTED BY THE TOWN AND/OR ENGINEER.

DETOUR / WORK ZONE NOTES:

- WORK ZONES SHOWN BELOW ARE FOR PLANNING PURPOSES ONLY. MODIFICATION TO THESE ZONES SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE TOWN AND/OR ENGINEER PRIOR TO SCHEDULED WORK.
- ALL WORK WITHIN ALL INTERSECTIONS ARE ANTICIPATED TO FOLLOW TYPICAL INTERSECTION TRAFFIC MANAGEMENT DETAILS SHOWN HEREIN.
- DETOUR WORK ZONES LIMITS ARE FOR ESTABLISHING THE PROPOSED DETOUR ROUTES. ACTUAL LIMITS OF ACTIVE CONSTRUCTION MAY BE SHORTER THAN DEPICTED IN THE WORK ZONE LIMITS SHOWN HEREIN.
- ADDITIONAL SIGNAGE MAY BE REQUIRED AS DIRECTED BY THE TOWN AND/OR ENGINEER FOR SIDE STREETS THROUGHOUT THE PROJECT LIMITS.
- PEDESTRIAN AND BICYCLE ROUTES SHALL BE MAINTAINED AT ALL TIMES NO EXCEPTIONS TAKEN.

LEGEND

-  WORK ZONE - DETOUR
-  WORK ZONE - TYPICAL LANE CLOSURES



WORK ZONE MAP
SCALE: 1" = 500'



MARK	DATE	DESCRIPTION

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Drawn by	JRC
Checked by	BLH
Approved by	ZFK

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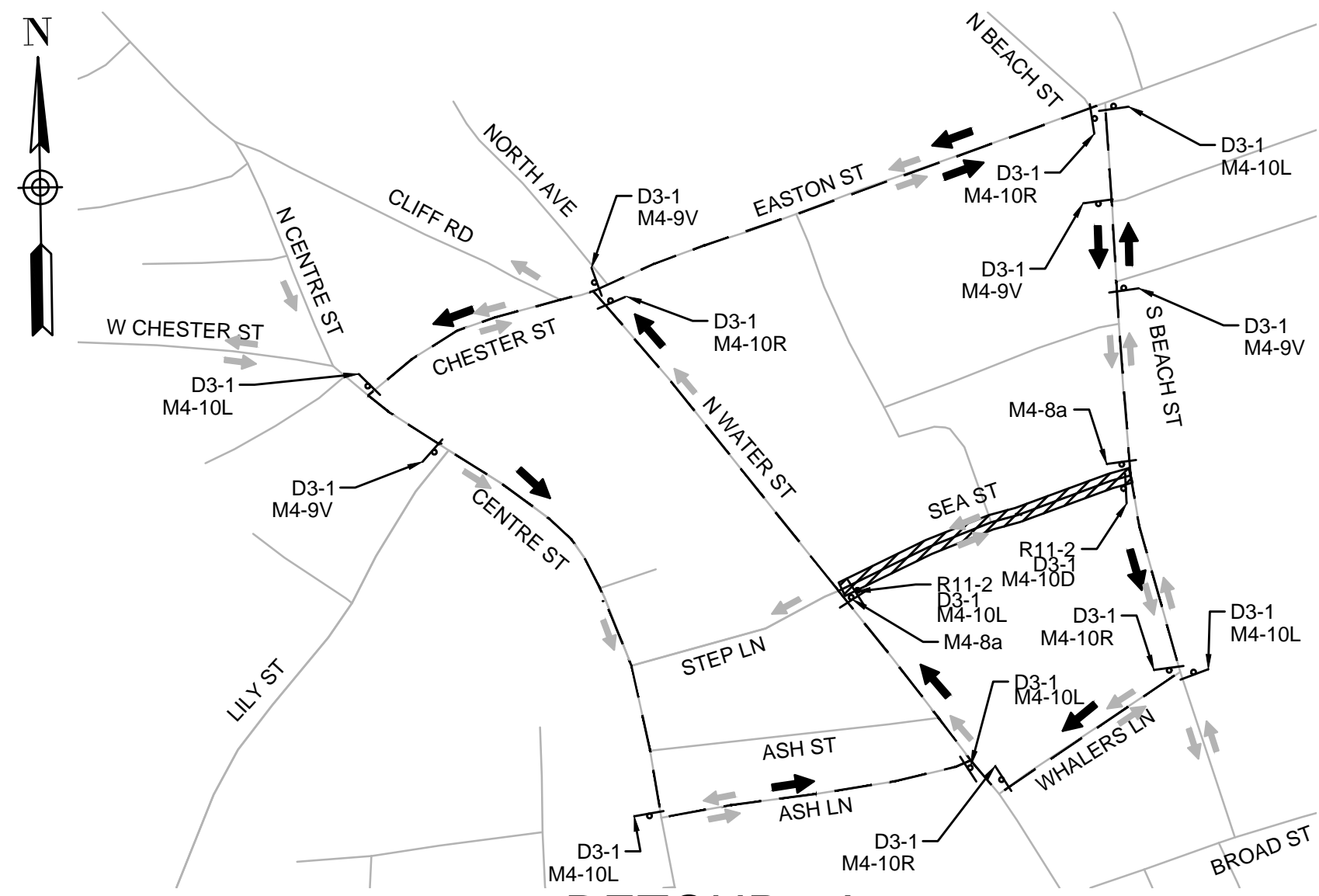
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

TRAFFIC MANAGEMENT PLAN
GENERAL NOTES AND DETOUR LOCATION PLAN

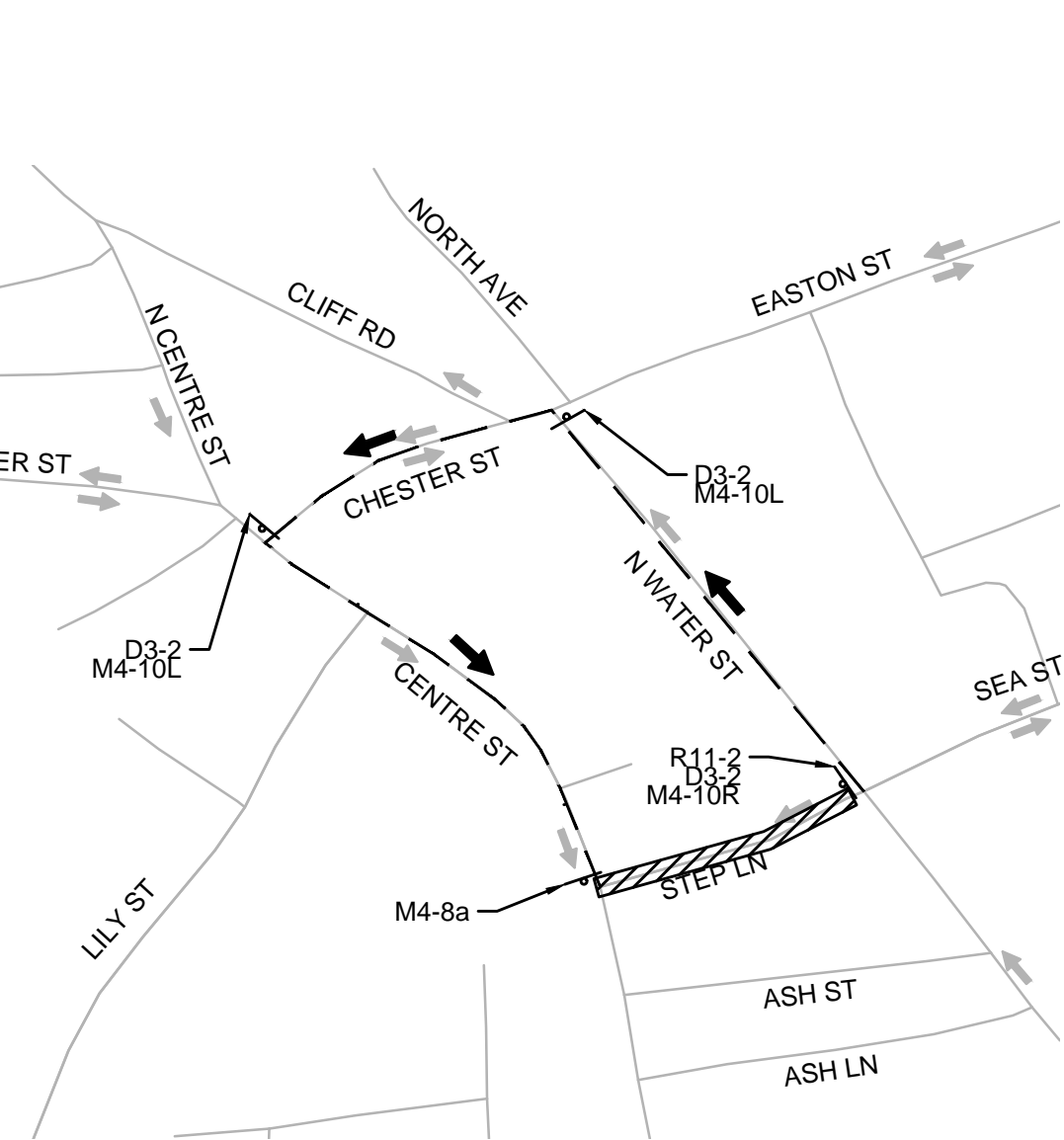
FOR CONSTRUCTION

Sheet No.

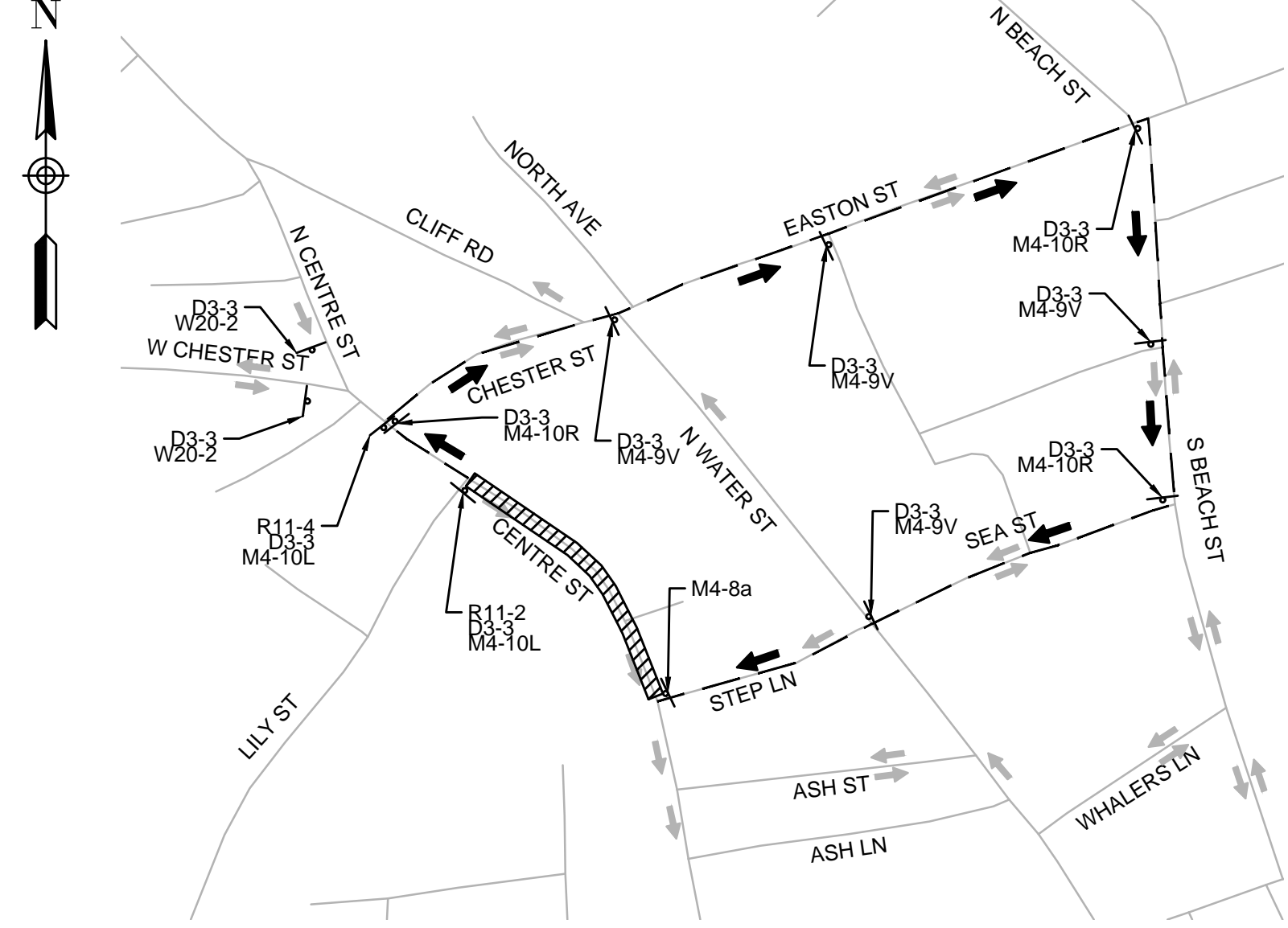
TMP-1



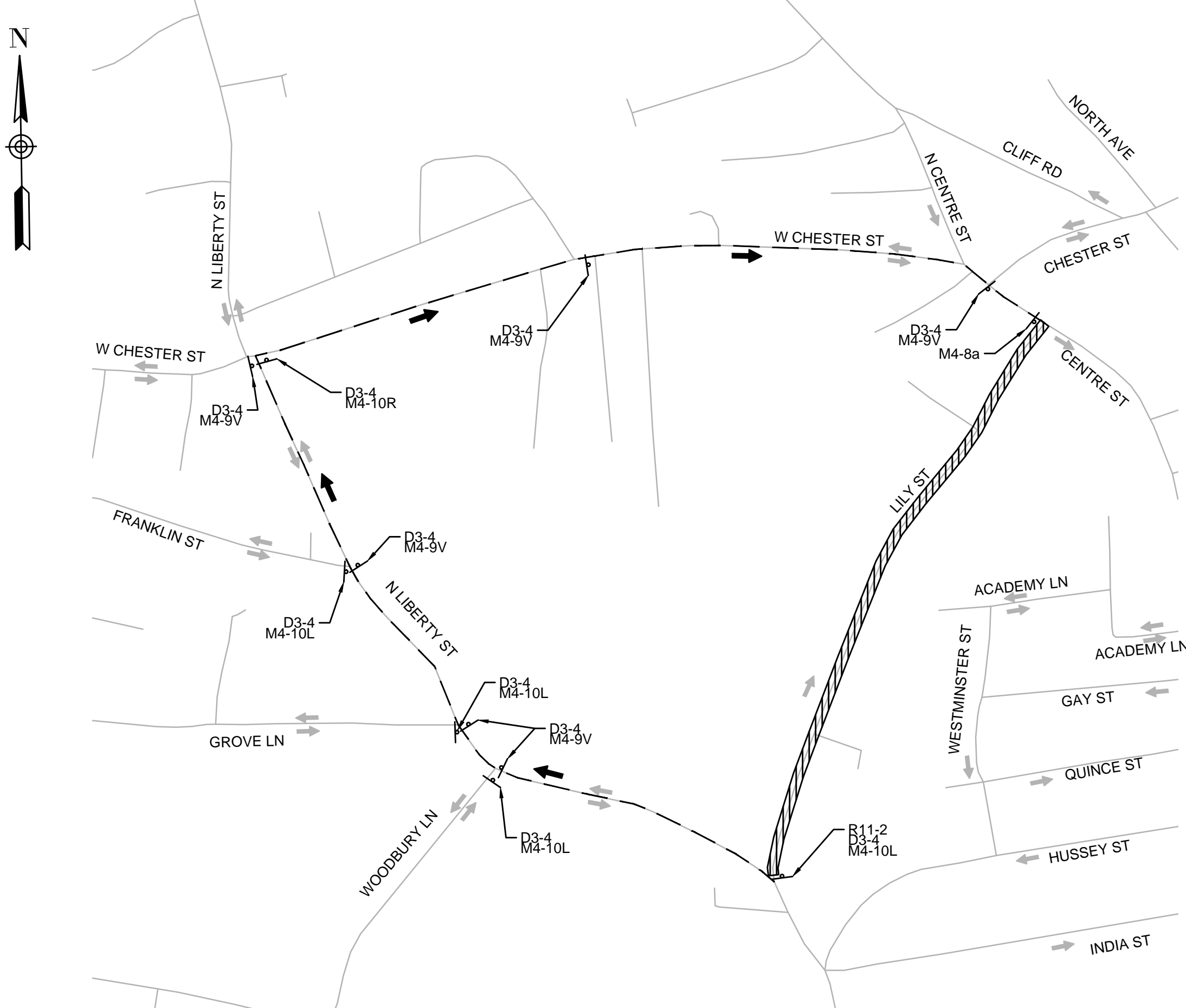
DETOUR - A
SCALE: 1"=200'



DETOUR - B
SCALE: 1"=200'



DETOUR - C
SCALE: 1"=200'



DETOUR - D
SCALE: 1"=200'

- LEGEND**
- WORK ZONE - DETOUR
 - DETOUR ROUTE
 - PROPOSED TRAFFIC FLOW
 - EXISTING TRAFFIC FLOW

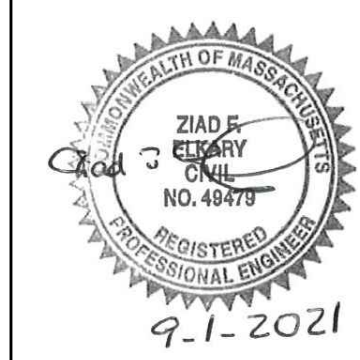
SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN (IN)		TEXT	TEXT DIMENSIONS (IN)			COLOR			UNIT AREA/EACH (S.F.)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK-GROUND	LEGEND	BORDER	
D3-1	VARIABLES	12	SEA ST	1	1	1	WHITE	GREEN	GREEN	VARIABLES
D3-2	VARIABLES	12	STEP LN	1	1	1	WHITE	GREEN	GREEN	VARIABLES
D3-3	VARIABLES	12	CENTRE ST	1	1	1	WHITE	GREEN	GREEN	VARIABLES
D3-4	VARIABLES	12	LILY ST	1	1	1	WHITE	GREEN	GREEN	VARIABLES
M4-8a	24	18	END DETOUR	1	1	1	ORANGE	BLACK	BLACK	3.00
M4-9V	30	30	DETOUR	1	1	1	ORANGE	BLACK	BLACK	6.25
M4-10L	48	18	DETOUR	1	1	1	ORANGE	BLACK	BLACK	6.00
M4-10R	48	18	DETOUR	1	1	1	ORANGE	BLACK	BLACK	6.00
M4-10D	48	18	DETOUR	1	1	1	ORANGE	BLACK	BLACK	6.00
R11-2	48	30	ROAD CLOSED	1	1	1	WHITE	BLACK	BLACK	10.00
R11-4	60	30	ROAD CLOSED TO THRU TRAFFIC	1	1	1	WHITE	BLACK	BLACK	12.50
W20-2	36	36	DETOUR AHEAD	1	1	1	ORANGE	BLACK	BLACK	9.00

① SEE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS" BY FEDERAL HIGHWAY ADMINISTRATION (LATEST EDITIONS) FOR SPECIFICATIONS ON TEXT DIMENSION AND COLOR. (SEE ALSO THE "MASSACHUSETTS AMENDMENTS TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND "GUIDE SIGN POLICY FOR SECONDARY STATE HIGHWAYS" (LATEST EDITIONS) BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION).



ENVIRONMENTAL PARTNERS
An Apex Company



MARK	DATE	DESCRIPTION

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Job No.	360-2001
Designed by	JRC
Drawn by	JRC
Checked by	BLH
Approved by	ZFK

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SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

TRAFFIC MANAGEMENT PLAN
DETOUR PLANS - 01

FOR CONSTRUCTION
Sheet No.

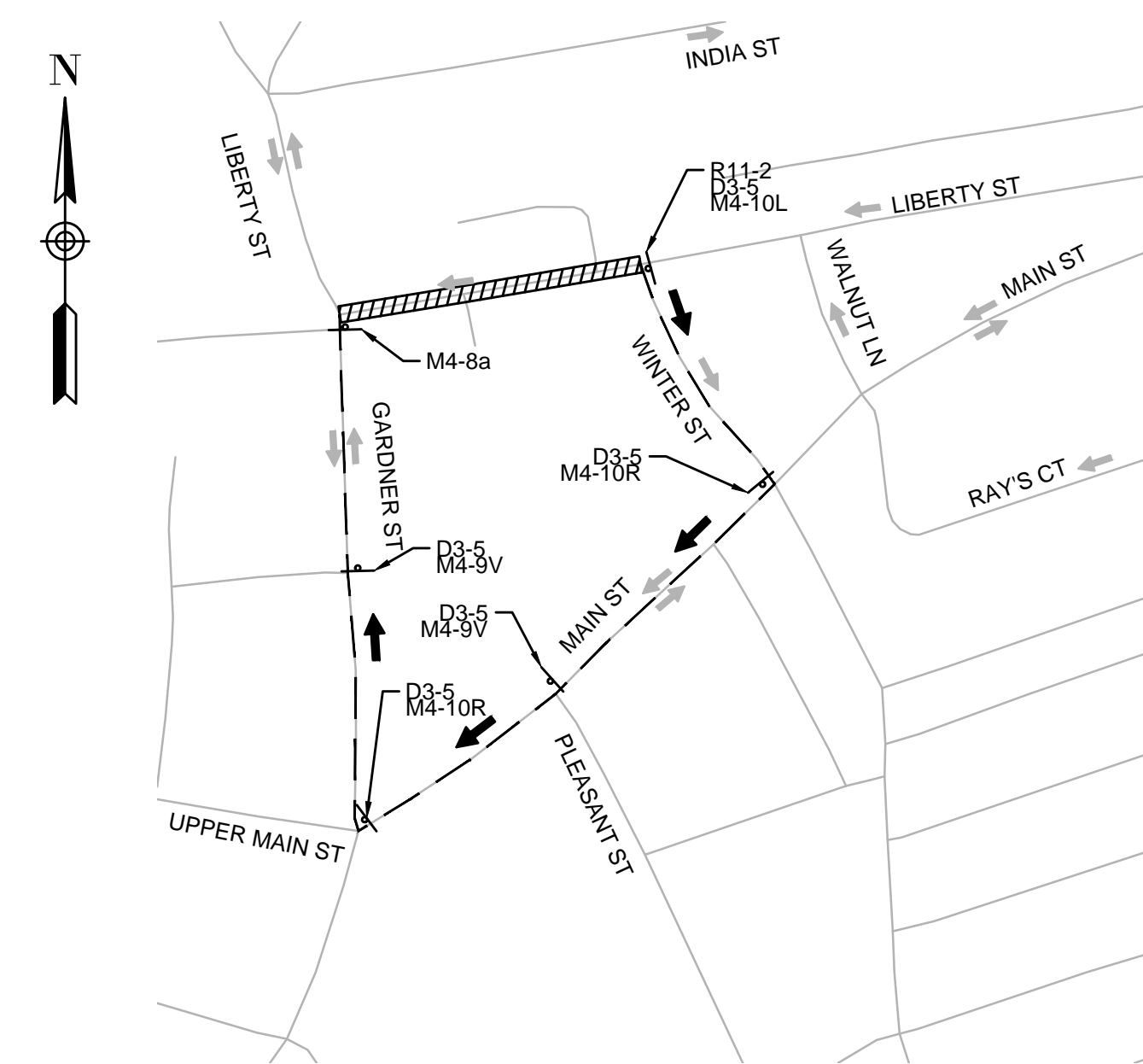
TMP-2

Drawing file: I:\Nantucket\360-2001 - Sea St PS FM No.3 Design\02 Design\Phase 2\Task 2.7 Design & Const Docs\Drawings\05_TMP.dwg Plot Date: Aug 31, 2021 12:48pm



DETOUR - E
SCALE: 1"=200'

- LEGEND**
- WORK ZONE - DETOUR
 - DETOUR ROUTE
 - PROPOSED TRAFFIC FLOW
 - EXISTING TRAFFIC FLOW

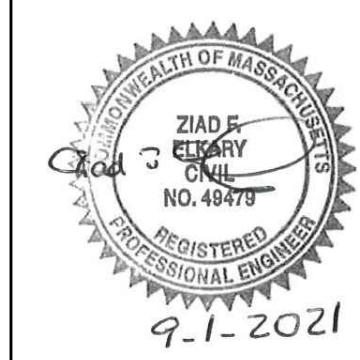


DETOUR - F
SCALE: 1"=200'

SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN (IN)		TEXT	TEXT DIMENSIONS (IN)			COLOR			UNIT AREA/EACH (S.F.)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK-GROUND	LEGEND	BORDER	
D3-5	VARIES	12	LIBERTY ST	1	1	1	WHITE	GREEN	GREEN	VARIES
M4-8a	24	18	END DETOUR	1	1	1	ORANGE	BLACK	BLACK	3.00
M4-9V	30	30	↑ DETOUR	1	1	1	ORANGE	BLACK	BLACK	6.25
M4-10L	48	18	← DETOUR	1	1	1	ORANGE	BLACK	BLACK	6.00
M4-10R	48	18	DETOUR →	1	1	1	ORANGE	BLACK	BLACK	6.00
R11-2	48	30	ROAD CLOSED	1	1	1	WHITE	BLACK	BLACK	10.00
R11-4	60	30	ROAD CLOSED TO THRU TRAFFIC	1	1	1	WHITE	BLACK	BLACK	12.50
W6-3	36	36	⬆️ ⬆️	1	1	1	ORANGE	BLACK	BLACK	4.50

① SEE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS" BY FEDERAL HIGHWAY ADMINISTRATION (LATEST EDITIONS) FOR SPECIFICATIONS ON TEXT DIMENSION AND COLOR. (SEE ALSO THE "MASSACHUSETTS AMENDMENTS TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND "GUIDE SIGN POLICY FOR SECONDARY STATE HIGHWAYS" (LATEST EDITIONS) BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION).



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MARK	DATE	DESCRIPTION

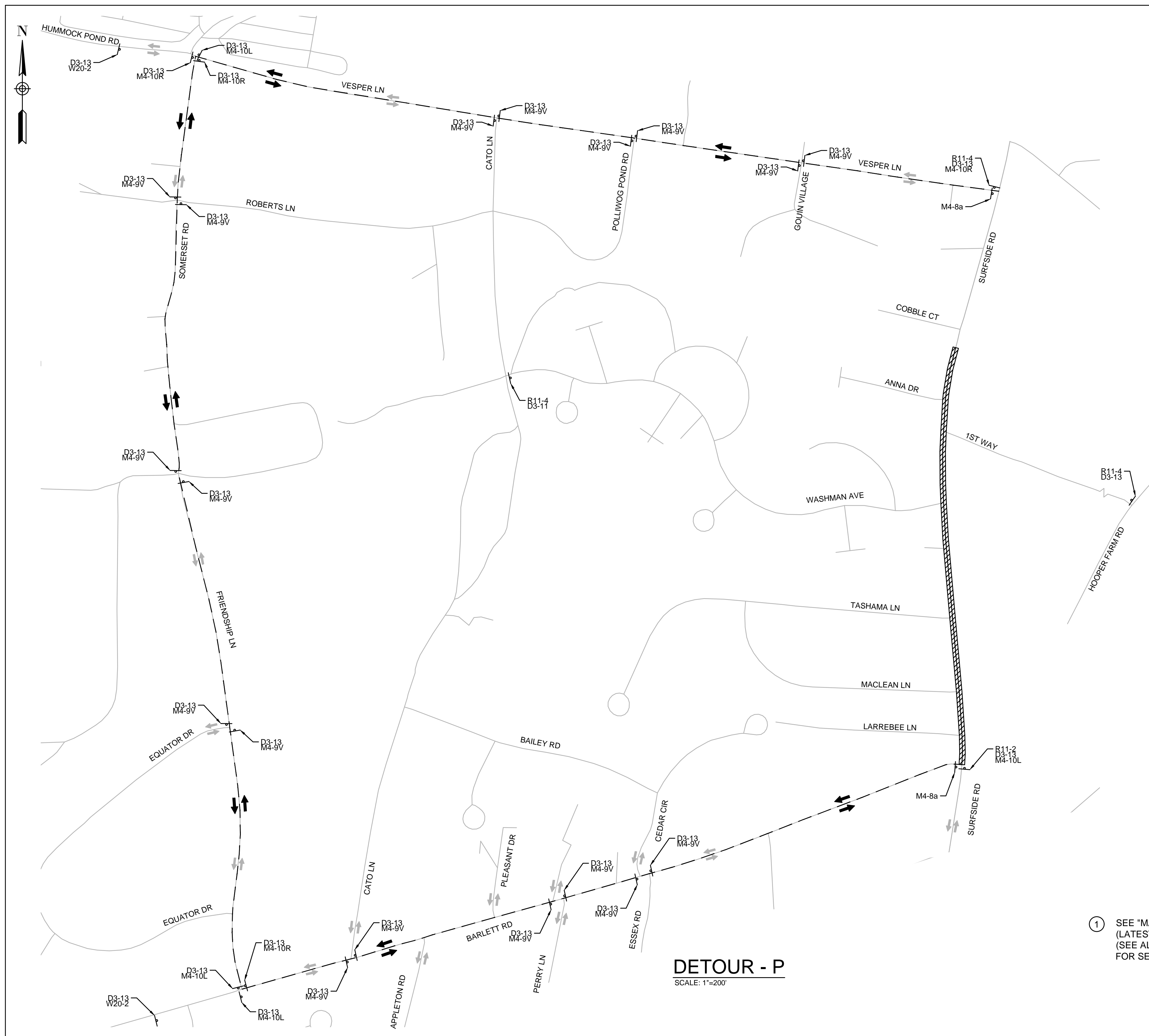
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SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

TRAFFIC MANAGEMENT PLAN
DETOUR PLANS - 02

FOR CONSTRUCTION
Sheet No.

TMP-3



LEGEND

- WORK ZONE - DETOUR
- DETOUR ROUTE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW

SIGN SUMMARY

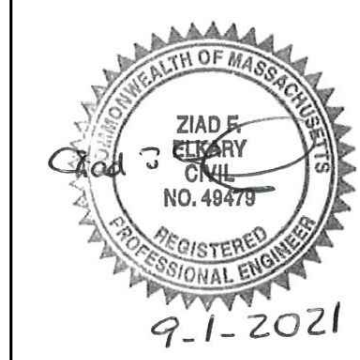
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	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK-GROUND	LEGEND	BORDER	
D3-13	VARIES	12	SURFSIDE RD	①	①	①	WHITE	GREEN	GREEN	VARIES
M4-8a	24	18	END DETOUR	①	①	①	ORANGE	BLACK	BLACK	3.00
M4-9V	30	30	DETOUR ↑	①	①	①	ORANGE	BLACK	BLACK	6.25
M4-10L	48	18	← DETOUR	①	①	①	ORANGE	BLACK	BLACK	6.00
M4-10R	48	18	DETOUR →	①	①	①	ORANGE	BLACK	BLACK	6.00
R11-2	48	30	ROAD CLOSED	①	①	①	WHITE	BLACK	BLACK	10.00
R11-4	60	30	ROAD CLOSED TO THRU TRAFFIC	①	①	①	WHITE	BLACK	BLACK	12.50
W20-2	36	36	DETOUR AHEAD	①	①	①	ORANGE	BLACK	BLACK	9.00

① SEE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND "STANDARD HIGHWAY SIGNS" BY FEDERAL HIGHWAY ADMINISTRATION (LATEST EDITIONS) FOR SPECIFICATIONS ON TEXT DIMENSION AND COLOR. (SEE ALSO THE "MASSACHUSETTS AMENDMENTS TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND "GUIDE SIGN POLICY FOR SECONDARY STATE HIGHWAYS" (LATEST EDITIONS) BY THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION).

DETOUR - P
SCALE: 1"=200'



ENVIRONMENTAL PARTNERS
— An Apex Company —



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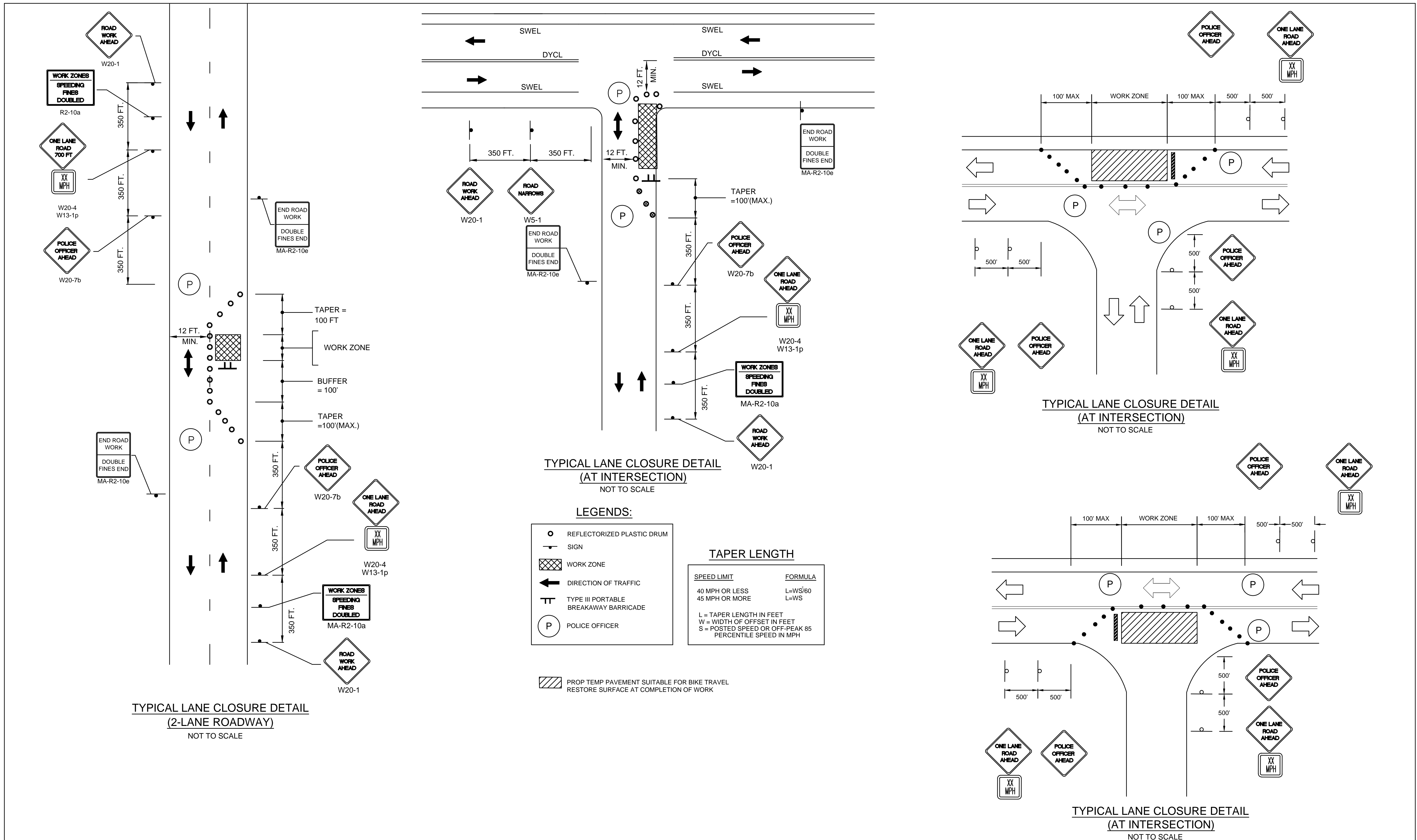
SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

TRAFFIC MANAGEMENT PLAN
DETOUR PLANS - 05

FOR CONSTRUCTION

Sheet No.

TMP-6



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
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Checked by	BLH
Approved by	ZFK

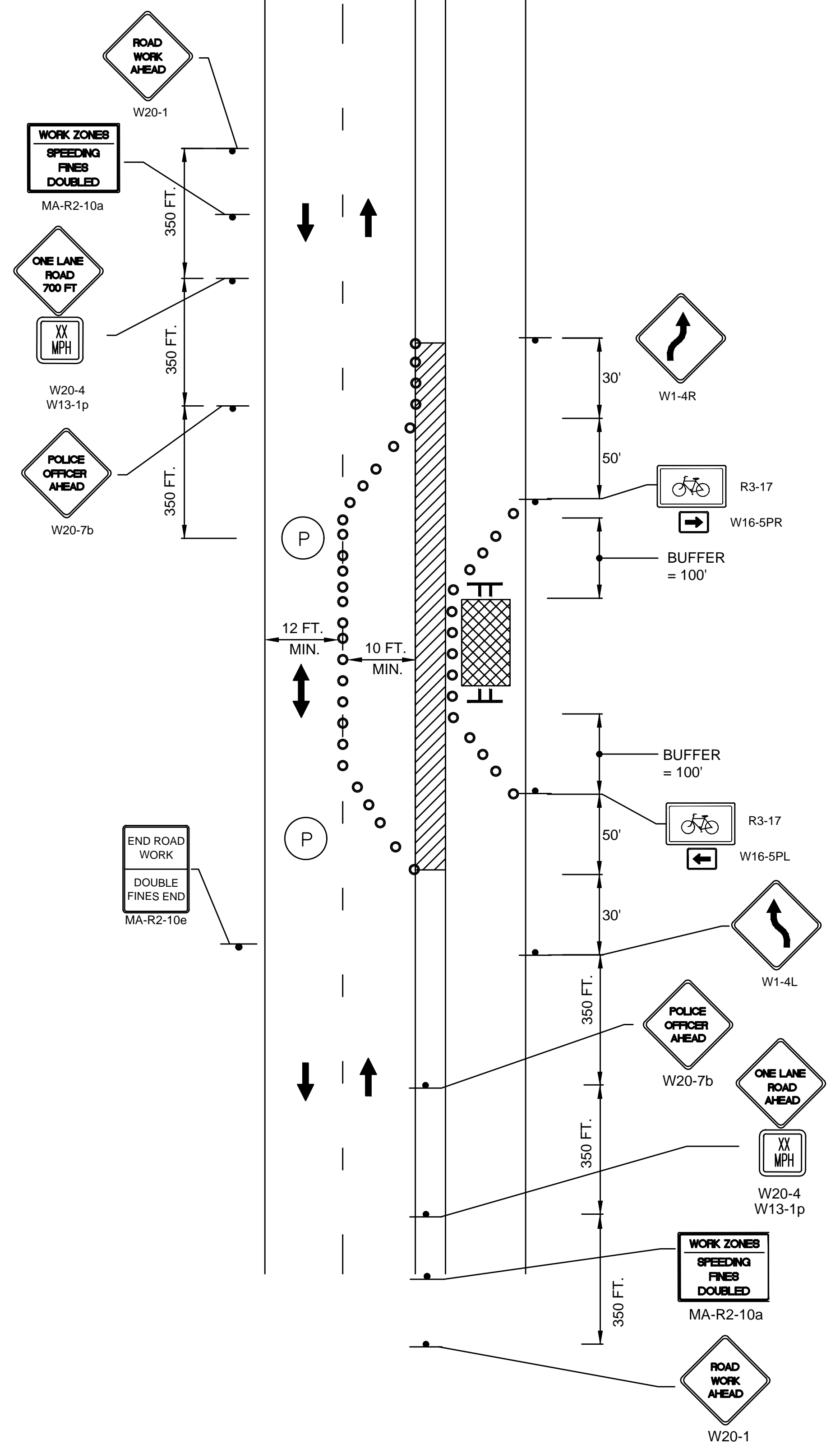
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SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

TRAFFIC MANAGEMENT PLAN
TYPICAL DETAILS - 01

FOR CONSTRUCTION
Sheet No.

TMP-8



TYPICAL BICYCLE PATH CLOSURE DETAIL
(2-LANE ROADWAY)
NOT TO SCALE

LEGENDS:

- REFLECTORIZED PLASTIC DRUM
- SIGN
- ▨ WORK ZONE
- ← DIRECTION OF TRAFFIC
- TT TYPE III PORTABLE BREAKAWAY BARRICADE
- (P) POLICE OFFICER

TAPER LENGTH

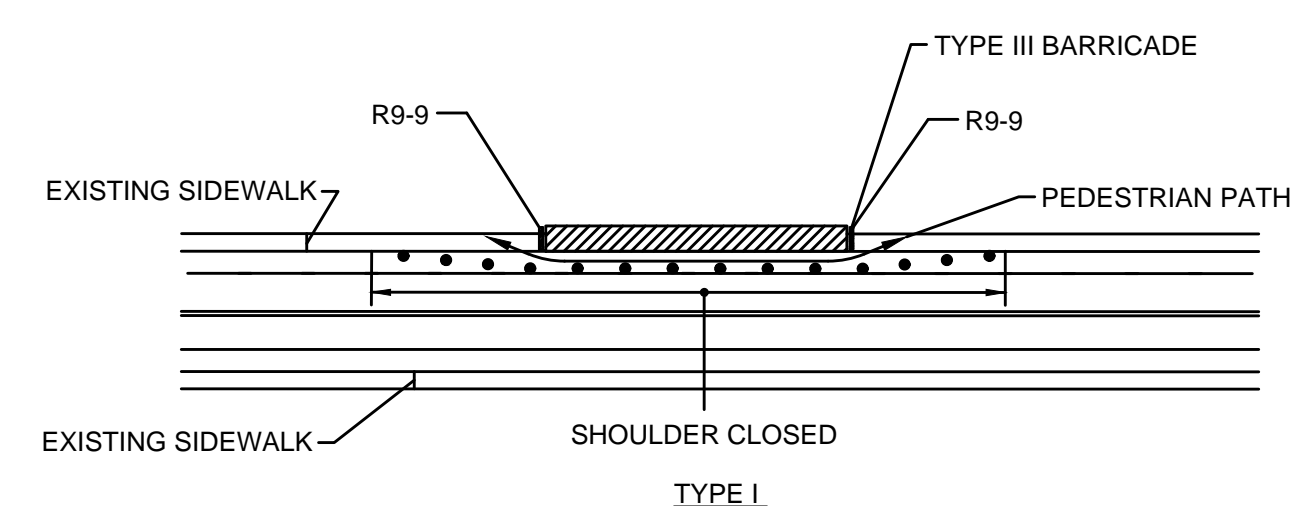
SPEED LIMIT	FORMULA
40 MPH OR LESS	$L = WS/60$
45 MPH OR MORE	$L = WS$

L = TAPER LENGTH IN FEET
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85 PERCENTILE SPEED IN MPH

▨ PROP TEMP PAVEMENT SUITABLE FOR BIKE TRAVEL
RESTORE SURFACE AT COMPLETION OF WORK

TEMPORARY SIGNS

SIGN DESIGNATION	LEGEND	HEIGHT	WIDTH
R9-9	SIDEWALK CLOSED	30"	18"
W20-4	ONE LANE ROAD AHEAD	36"	36"
W20-7b	POLICE OFFICER AHEAD	36"	36"

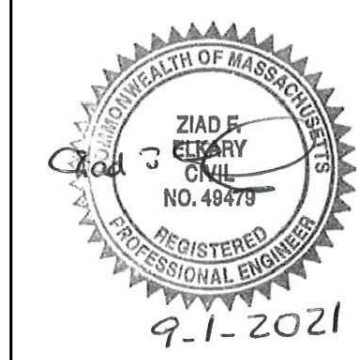


- NOTES**
- ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
 - CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN. VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE.
 - IF THE WORK ZONE DOES NOT PERMIT PEDESTRIANS TO TRAVEL ADJACENT TO IT AS SHOWN, PEDESTRIANS MAY BE REQUIRED TO CROSS TO THE OPPOSITE SIDE OF THE STREET AS DIRECTED BY THE RESIDENT ENGINEER.
 - BYPASS IS TO BE USED IN CONJUNCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DIRECTED BY THE RESIDENT ENGINEER.
 - ACCESS TO ALL BUSINESSES AND RESIDENCES SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE CITY

PEDESTRIAN BYPASS
NOT TO SCALE



ENVIRONMENTAL PARTNERS
— An Apex Company —



MARK	DATE	DESCRIPTION

Scale	AS NOTED
Date	SEPTEMBER 2021
Job No.	360-2001
Designed by	JRC
Drawn by	JRC
Checked by	BLH
Approved by	ZFK

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

SEA STREET PUMP STATION FORCE MAIN NO.3
TOWN OF NANTUCKET, MA

TRAFFIC MANAGEMENT PLAN
TYPICAL DETAILS - 02

FOR CONSTRUCTION
Sheet No.

TMP-9