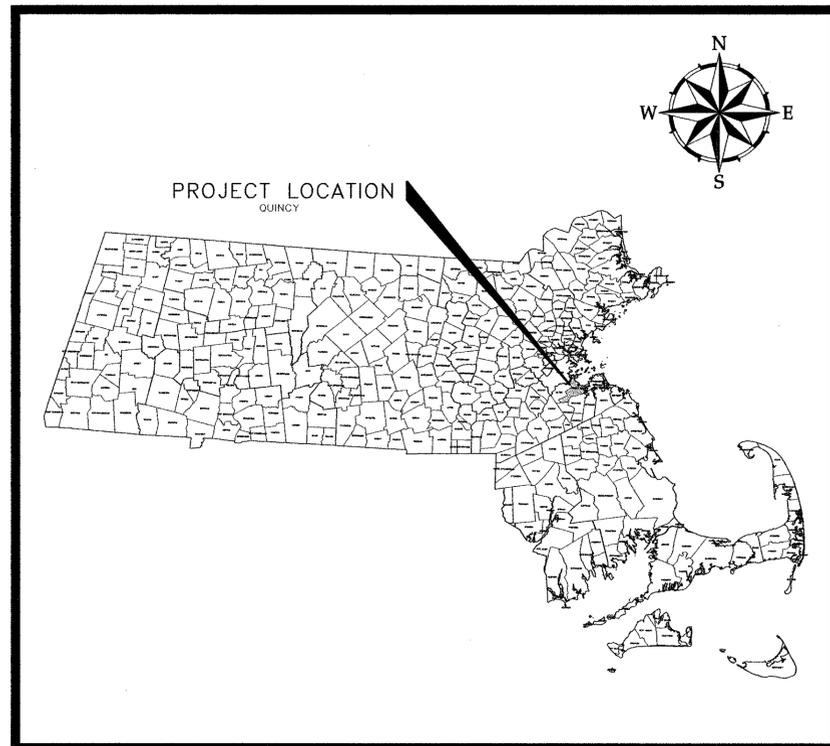


# CITY OF QUINCY, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS

## BROAD STREET PUMP STATION

CAPITAL IMPROVEMENT PLAN NUMBER 1139



**PROJECT LOCATION MAP**

50 0 50 100  
scale mile

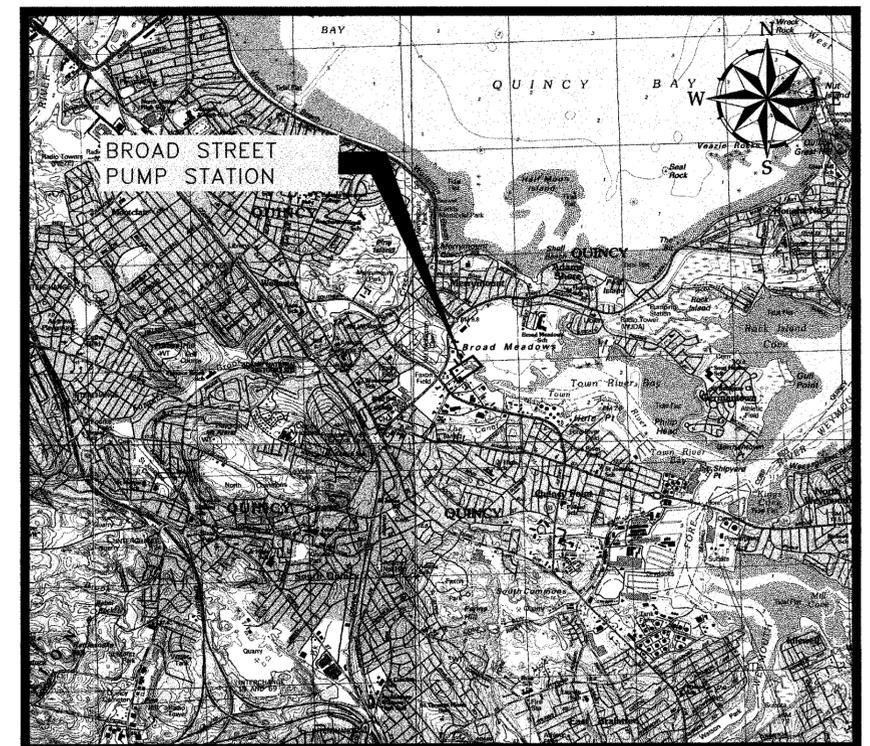
**Mayor:** Thomas P. Koch  
**Commissioner of Public Works:** Daniel G. Raymond  
**Purchasing Agent:** Kathryn R. Hobin



**JANUARY 2014**



980 WASHINGTON STREET, SUITE 325  
DEDHAM, MASSACHUSETTS 02026  
781-251-0200 | www.woodardcurran.com  
COMMITMENT & INTEGRITY DRIVE RESULTS



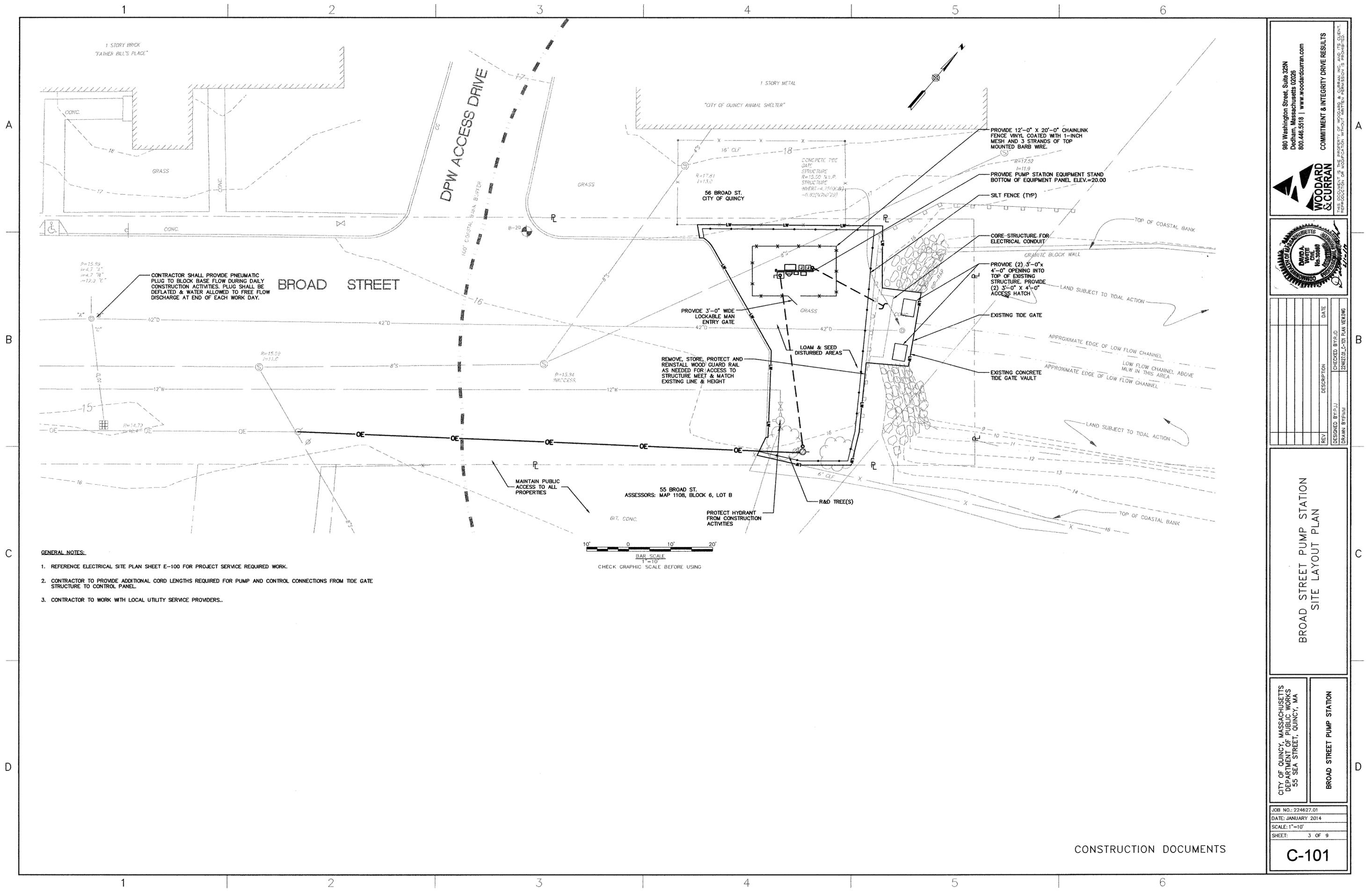
SOURCE: USGS TOPOGRAPHIC MAP  
**SITE LOCATION MAP**

NOT TO SCALE

CONSTRUCTION DOCUMENTS

W&C PROJECT NO. 224627.01



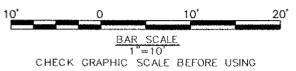


CONTRACTOR SHALL PROVIDE PNEUMATIC PLUG TO BLOCK BASE FLOW DURING DAILY CONSTRUCTION ACTIVITIES. PLUG SHALL BE DEFLATED & WATER ALLOWED TO FREE FLOW DISCHARGE AT END OF EACH WORK DAY.

REMOVE, STORE, PROTECT AND REINSTALL WOOD GUARD RAIL AS NEEDED FOR ACCESS TO STRUCTURE MEET & MATCH EXISTING LINE & HEIGHT

PROTECT HYDRANT FROM CONSTRUCTION ACTIVITIES

- GENERAL NOTES:**
1. REFERENCE ELECTRICAL SITE PLAN SHEET E-100 FOR PROJECT SERVICE REQUIRED WORK.
  2. CONTRACTOR TO PROVIDE ADDITIONAL CORD LENGTHS REQUIRED FOR PUMP AND CONTROL CONNECTIONS FROM TIDE GATE STRUCTURE TO CONTROL PANEL.
  3. CONTRACTOR TO WORK WITH LOCAL UTILITY SERVICE PROVIDERS.



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Dedham, Massachusetts 02026  
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**WOODARD & CURRAN**  
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REV	DESCRIPTION	CHECKED BY/UD	DATE

**BROAD STREET PUMP STATION  
SITE LAYOUT PLAN**

CITY OF QUINCY, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS  
55 SEA STREET, QUINCY, MA

**BROAD STREET PUMP STATION**

JOB No.: 224627.01

DATE: JANUARY 2014

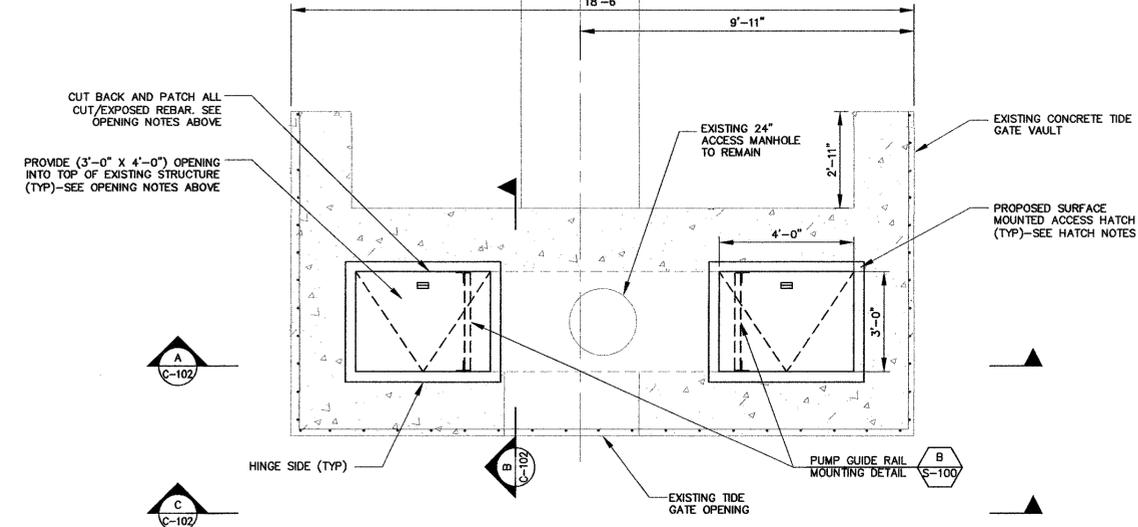
SCALE: 1"=10'

SHEET: 3 OF 9

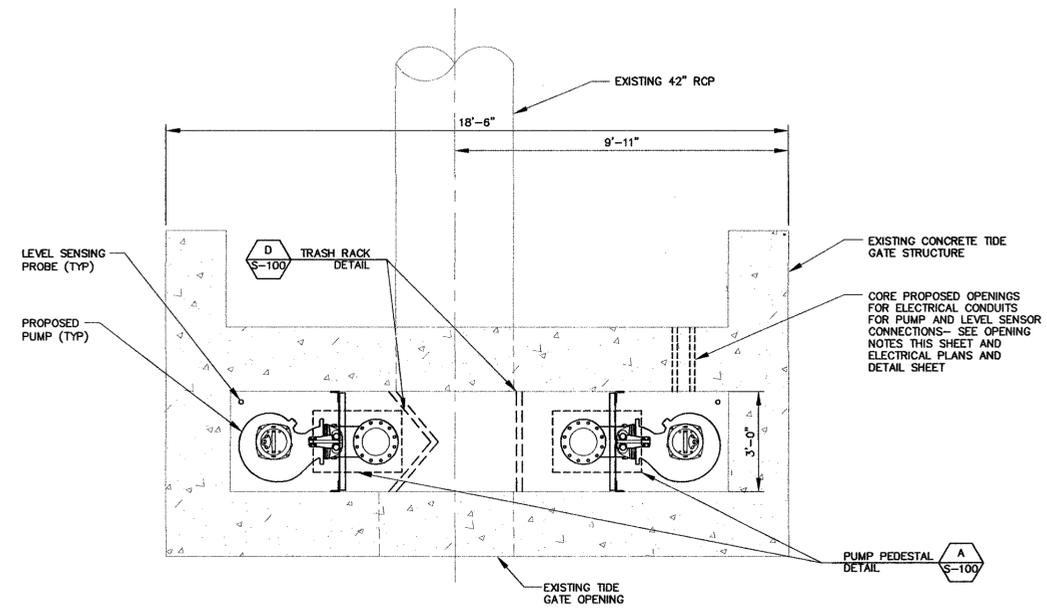
C-101

- OPENING NOTES:**
1. NO OVERCUTTING SHALL BE PERMITTED AT THE CORNERS.
  2. AFTER SAW CUTTING OR CORING, ALL EXPOSED REBAR ENDS SHALL BE CUT BACK 2" FROM CUT FACE OF CONCRETE. PATCH ALL VOIDS FLUSH WITH CUT FACE OF CONCRETE USING REPAIR MORTAR EQUAL TO "SIKATOP 122 PLUS" BY SIKA CORPORATION.
  3. CORES FOR ELECTRICAL CONDUITS SHALL BE SEALED PER SPECIFICATIONS.

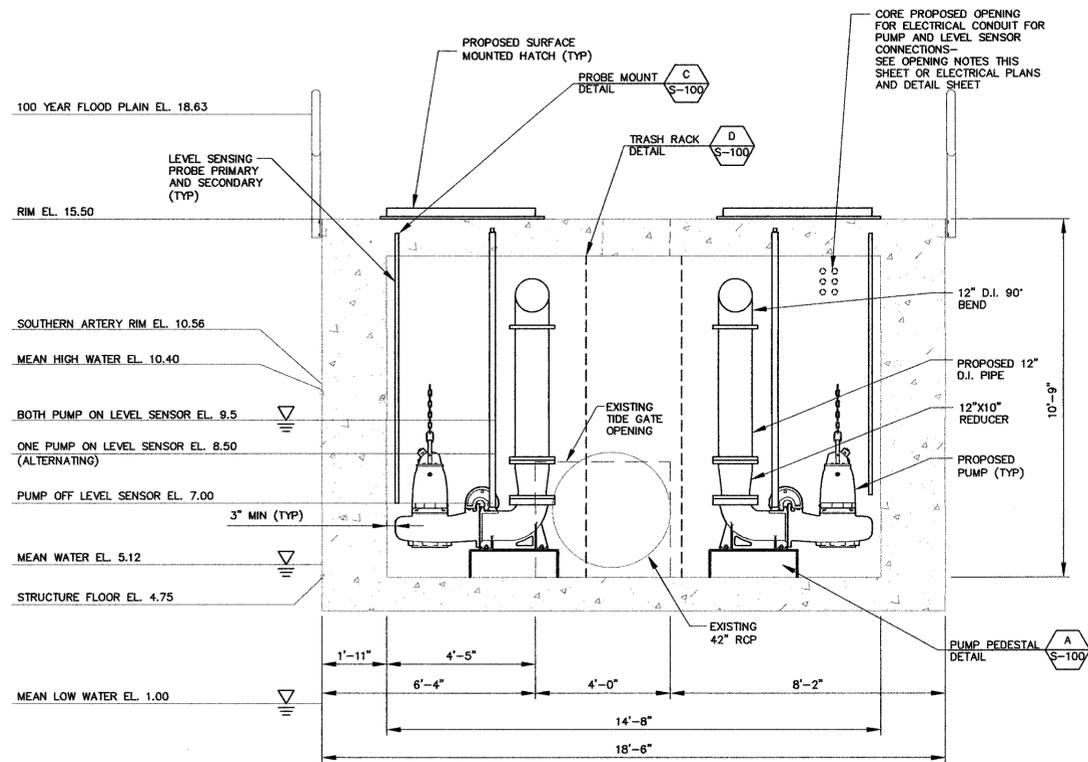
- HATCH NOTES:**
1. INSTALL ON SMOOTH AND LEVEL EXISTING CONCRETE.
  2. INSTALL USING S.S. EXP. ANCHORS, SIZE AND QTY PER MANUFACTURER'S RECOMMENDATIONS.
  3. PROVIDE CONTINUOUS EPDM GASKET BETWEEN HATCH FRAME AND EXISTING CONCRETE.



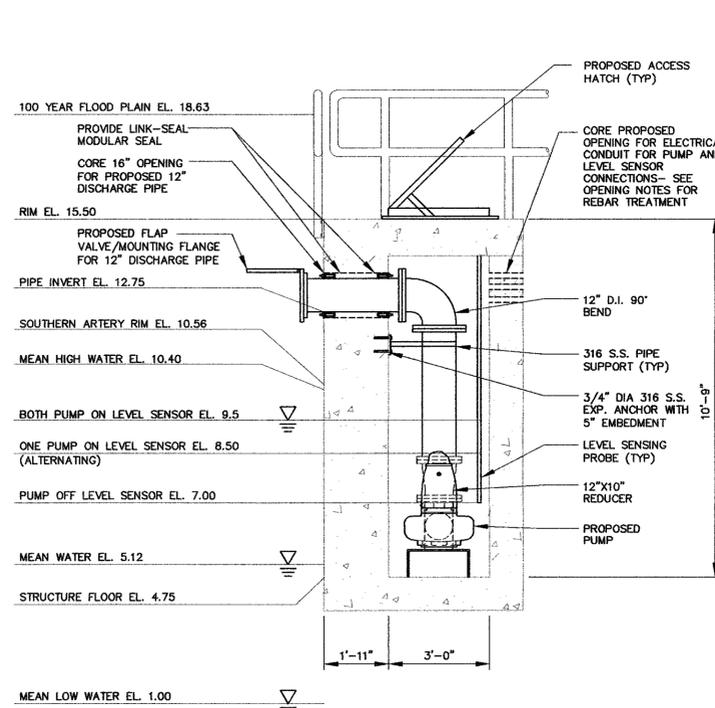
**TIDE GATE VAULT PLAN**  
SCALE: 3/8"=1'-0"



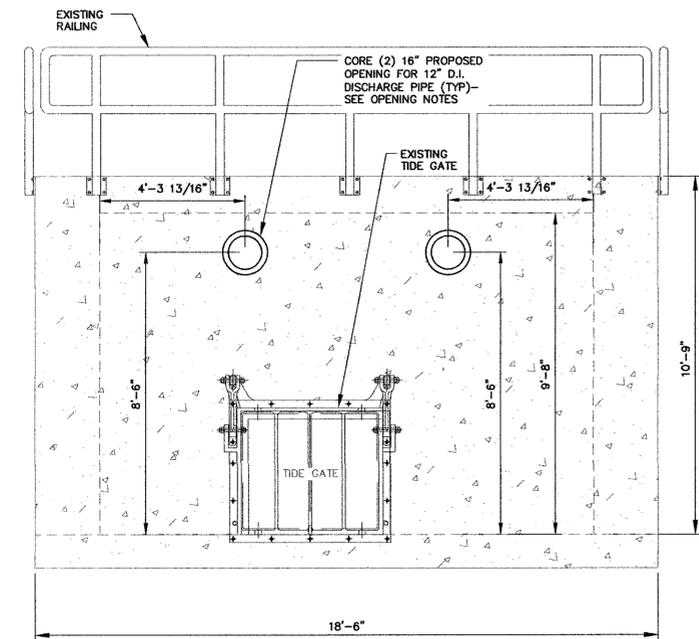
**TOP CHAMBER VIEW**  
SCALE: 3/8"=1'-0"



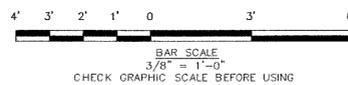
**SECTION A**  
SCALE: 3/8"=1'-0"



**SECTION B**  
SCALE: 3/8"=1'-0"



**SECTION C**  
SCALE: 3/8"=1'-0"



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REV.	DESCRIPTION	DATE
DESIGNED BY: BJD	CHECKED BY: BJD	2/26/2014
DRAWN BY: PHM		

**BROAD STREET PUMP STATION**  
PLAN AND SECTIONS

CITY OF QUINCY, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS  
55 SEA STREET, QUINCY, MA

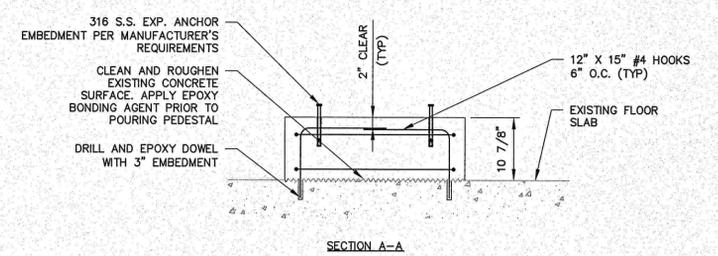
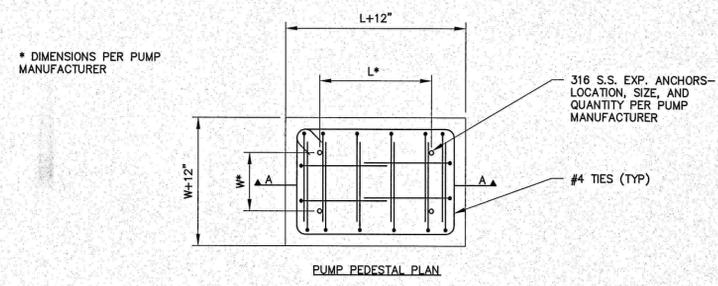
**BROAD STREET PUMP STATION**

JOB NO.: 224627.01  
DATE: JANUARY 2014  
SCALE: AS NOTED  
SHEET: 4 OF 9

**C-102**

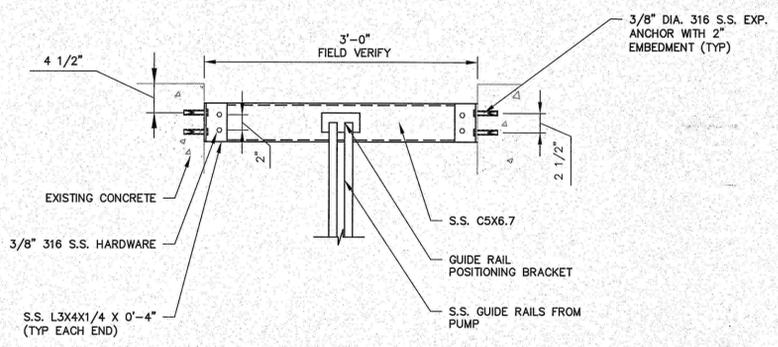


A



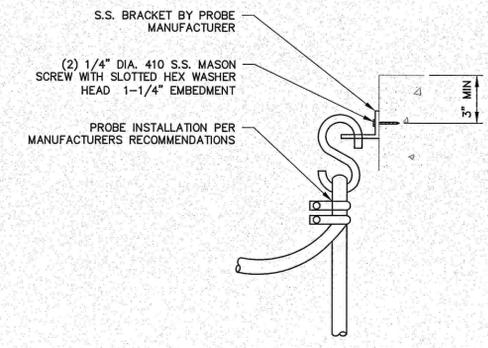
NOTE: CONTRACTOR TO COORDINATE PEDESTAL SIZE WITH PUMP MANUFACTURER AND BOLT HOLE CONFIGURATION.

**A PUMP PEDESTAL**  
SCALE: 3/4" = 1'-0"

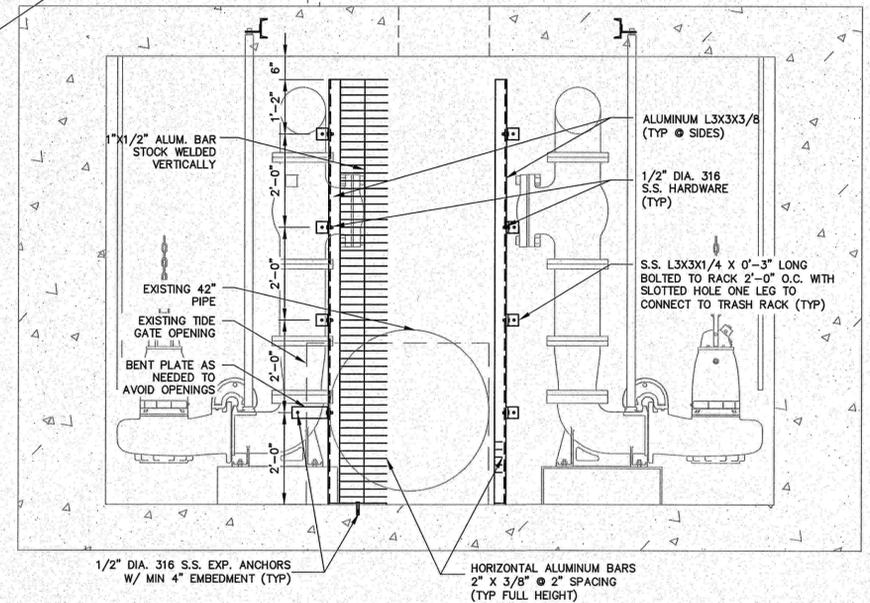
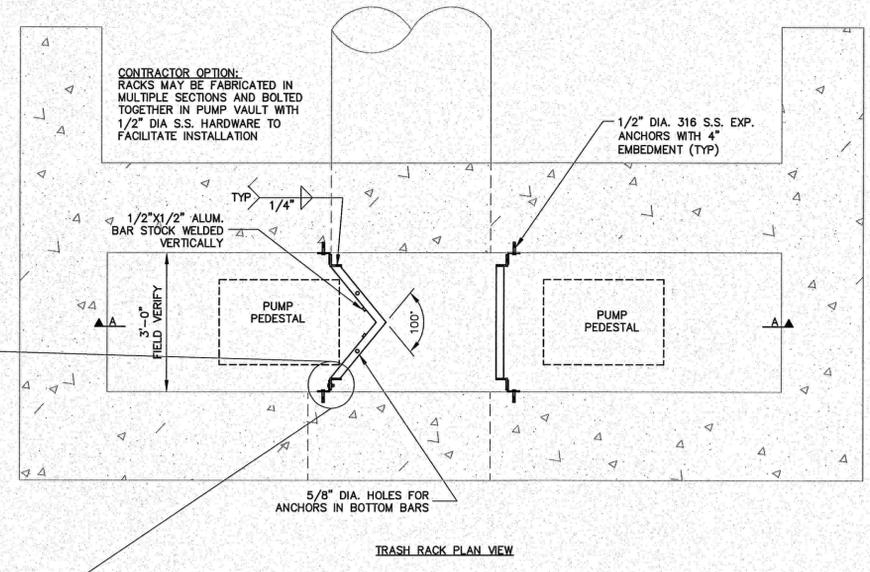
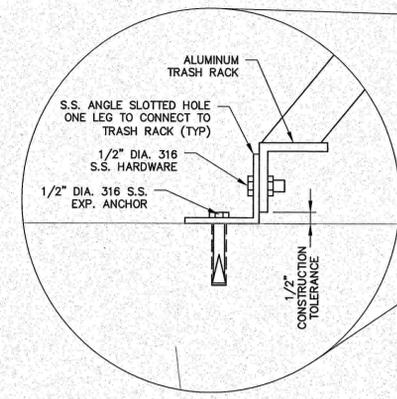


NOTE: MOUNT GUIDE RAIL POSITIONING BRACKET TO CHANNEL WITH S.S. HARDWARE.

**B PUMP GUIDE RAIL MOUNTING**  
SCALE: 1" = 1'-0"



**C PROBE MOUNT**  
SCALE: NTS



NOTE: CONTRACTOR TO IDENTIFY ANY CONFLICTS WITH PEDESTALS, OPENINGS, OR TRASH RACK AND CONTACT ENGINEER.

**D TRASH RACK**  
SCALE: 1/2" = 1'-0"

**REINFORCED CONCRETE NOTES:**

1. COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS-4000 PSI, AIR CONTENT 6% ± 1%, W/C RATIO 0.45 MAXIMUM, SLUMP 4" MAXIMUM AFTER ALL WATER HAS BEEN ADDED. CONCRETE PLACED BELOW EL. 11.50 SHALL CONTAIN ANTI-WASHOUT ADMIXTURE. SUBMIT MIX DESIGN TO THE ENGINEER.
2. ALL DESIGN IN ACCORDANCE WITH ACI 318 CONCRETE BUILDING CODE, LATEST EDITION. ALL CONCRETE SHALL BE PROVIDED, PLACED AND CURED AS PER ALL APPLICABLE SECTIONS OF THE ACI, AS APPROVED BY THE ENGINEER.
3. REINFORCEMENT: ASTM A615 GRADE 60 - ALL SPLICES CLASS B (U.N.O). REINFORCEMENT SHALL BE DETAILED, FABRICATED AND PLACED AS PER ACI 315 DETAILING MANUAL. REINFORCEMENT SHALL BE EPOXY COATED PER ASTM A775. ANY DAMAGE OR FIELD CUTS SHALL BE RE-COATED WITH A TWO COMPONENT 70% SOLIDS EPOXY COATING.
4. PROVIDE 3/4" CHAMFER ON EXPOSED EDGES OF CONCRETE U.N.O.
5. ALL CONCRETE SHALL BE FIELD TESTED BY AN INDEPENDENT TESTING LABORATORY AS PER ASTM SPECIFICATIONS. FOR EACH PLACEMENT, ONE SET OF 4 STANDARD COMPRESSION TEST CYLINDERS SHALL BE TAKEN AND TESTED IN ACCORDANCE WITH ASTM C 39: 1 SPECIMEN TESTED AT 7 DAYS; 2 SPECIMENS TESTED AT 28 DAYS; AND 1 SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED.
6. CONCRETE CURING/SEALING COMPOUND: PROVIDE THE FOLLOWING FOR HORIZONTAL AND VERTICAL EXPOSED TO VIEW CONCRETE SURFACES: CLEAR EPOXY COATING, A ONE-STEP CURE AND PENETRATING WATER REPELLENT MEETING ASTM C-1315, TYPE 1, CLASS B, NCHRP-244, APPLY (2) COATS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

**SUBMITTALS:**

CONTRACTOR SHALL SUBMIT THE FOLLOWING PRODUCT INFO/SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL:

1. CONCRETE MIX DESIGN
2. S.S. EXPANSION ANCHORS
3. SURFACE MOUNTED HATCHES
4. ALUMINUM TRASH RACKS

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**WOODARD & CURRAN**

COMMITMENT & INTEGRITY DRIVE RESULTS



REV	DESCRIPTION	DATE

DESIGNED BY: SJT  
CHECKED BY: RJD  
URBAN BY: PMA  
DRAWN BY: ZAK207L\_S100DK

STRUCTURAL DETAILS

CITY OF QUINCY, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS  
55 SEA STREET, QUINCY, MA

BROAD STREET PUMP STATION

JOB NO.: 224627.01  
DATE: JANUARY 2014  
SCALE: AS NOTED  
SHEET: 6 OF 9

**S-100**

PROVIDENCE Projects 224627.01 - Drainage Capital Improvements\wp\224627.01\_Broad Street Tributary System Rehab Phase 2\Pump Station Structural\22432701\_S100.dwg, Feb 10, 2014, 8:02am

GENERAL

GENERAL symbols and notes including HOME RUN, WIRING IN RACEWAY, CONDUIT AND CABLE ID TAG, LOCAL SELECTOR SWITCH, PUSHBUTTON STATION, JUNCTION BOX, MOTORIZED DAMPER, RELAY, EQUIPMENT TAGS, KEYED NOTE TAG, REVISION TRIANGLE, BRACKET.

POWER

POWER symbols and notes including NON-FUSED SAFETY SWITCH, FUSED SAFETY SWITCH, NON-FUSED DISCONNECT, MANUAL MOTOR SWITCH, ENCLOSED CIRCUIT BREAKER, ELECTRIC MOTOR, TRANSFORMER, POWER POLE, DUPLEX RECEPTACLE, GFCI DUPLEX RECEPTACLE, DOUBLE DUPLEX GFCI RECEPTACLE, FLUSH FLOOR OUTLET, MULTI SERVICE FLUSH FLOOR BOX, POWER RECEPTACLE, FLUSH CEILING MTD DEVICE BOXES.

MISCELLANEOUS

MISCELLANEOUS symbols and notes including DETAIL #, SECTION CALL OUT, DETAIL TITLE, DETAIL CALL OUT.

LIGHTING

LIGHTING symbols and notes including 2x4 FLUORESCENT FIXTURE, ASSOCIATED CONTROL DEVICE, 1x4 FLUORESCENT FIXTURE, 2x2 FLUORESCENT FIXTURE, FIXTURE WIRED TO UNSWITCHED NORMAL CIRCUIT, FIXTURE WIRED TO UNSWITCHED EMERGENCY CIRCUIT, DOWN LIGHT, FLUORESCENT STRIP, WALL MOUNTED FIXTURES, POLE MOUNTED SITE LIGHTING FIXTURE, EXIT SIGN, TANDEN EMERGENCY LIGHT BATTERY PACK, REMOTE EMERGENCY LIGHTING HEAD, SINGLE POLE TOGGLE SWITCH, DOUBLE POLE TOGGLE SWITCH, 3-WAY TOGGLE SWITCH, 4-WAY TOGGLE SWITCH, WALL MOUNTED OCCUPANCY SENSOR, TOGGLE SWITCH WITH PILOT LIGHT, DIMMER SWITCH, LOW VOLTAGE SWITCH, OCCUPANCY SENSOR, PHOTOCELL, LIGHTING CONTACTOR, MOTION SENSOR.

FIRE ALARM DIAGRAM SYMBOLS

FIRE ALARM DIAGRAM SYMBOLS including FIRE ALARM CONTROL PANEL, FIRE ALARM ANNUNCIATOR, FIELD CHARGER POWER SUPPLY, FIRE ALARM MASTER BOX, KNOX BOX, FIRE ALARM MANUAL PULL STATION, FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, FIRE ALARM VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED SMOKE DETECTOR, CEILING MOUNTED HEAT DETECTOR, DUCT SMOKE DETECTOR, SPRINKLER SYSTEM FLOW SWITCH, SPRINKLER SYSTEM TAMPER SWITCH, SPRINKLER SYSTEM PRESSURE SWITCH, FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER, MONITOR MODULE, CONTROL MODULE, RELAY MODULE.

COMMUNICATIONS

COMMUNICATIONS symbols and notes including TELEPHONE BACKBOARD, PROVISIONS FOR TELEPHONE OUTLET, PROVISIONS FOR DATA OUTLET, PROVISIONS FOR TELEPHONE & DATA OUTLET, PROVISIONS FOR SCADA SYSTEM OUTLET, CEILING MOUNTED TELEPHONE SYSTEM OUTLET, CEILING MOUNTED DATA SYSTEM OUTLET, CEILING MOUNTED VOICE & DATA OUTLET, FLUSH TELEPHONE FLOOR OUTLET, FLUSH DATA FLOOR OUTLET, FLUSH VOICE & DATA FLOOR OUTLET, TELEVISION COAXIAL OUTLET.

SECURITY

SECURITY symbols and notes including SECURITY PANEL, DOOR INTRUSION SWITCH, ELECTRIC DOOR STRIKE, CARD READER, KEY PAD, MOTION DETECTOR, SECURITY CAMERA.

INTERCOM & PAGING SYSTEM

INTERCOM & PAGING SYSTEM symbols and notes including CEILING MOUNTED SPEAKER, PAGING SYSTEM CONTROL PANEL, PAGING SYSTEM HANDSET.

INSTRUMENTATION

INSTRUMENTATION symbols and notes including FIELD MOUNTED INSTRUMENT, INSTRUMENT IDENTIFICATION TYPE, INSTRUMENT LOOP #, VENDOR SUPPLIED INSTRUMENT, INSTRUMENT IDENTIFIER, ANALYSIS ELEMENT, ANALYSIS INDICATING TRANSMITTER, ANALYSIS TRANSMITTER, DIFFERENTIAL PRESSURE SWITCH, FLOW CONTROL VALVE, FLOW ELEMENT, FLOW INDICATING TRANSMITTER, FLOW TRANSMITTER, FLOW SWITCH, LEVEL ELEMENT, LEVEL INDICATING TRANSMITTER, LEVEL TRANSMITTER, LEVEL SWITCH, LEVEL SWITCH HIGH, LEVEL SWITCH LOW, MOTOR OPERATED VALVE, PRESSURE ELEMENT, PRESSURE INDICATING TRANSMITTER, PRESSURE TRANSMITTER, PRESSURE SWITCH, SOLENOID VALVE, TEMPERATURE ELEMENT, TEMPERATURE INDICATING TRANSMITTER, TEMPERATURE TRANSMITTER, PROXIMITY SWITCH.

MISC TERMINALS

MISC TERMINALS symbols and notes including ARROW, SMALL, ARROW, LARGE, ARROW, TRIANGULAR, CONTINUE, SMALL, CONTINUE, LARGE, DOT, SMALL, DOT, MEDIUM, DOT, LARGE, POLARITY SQUARE, SCREW TERMINAL, TERMINAL POINT, SMALL, TERMINAL POINT, LARGE, TERMINAL POINT, SQUARE, SHIELD, SHIELD W/TERMINAL POINT.

ONE-LINE DIAGRAM SYMBOLS

ONE-LINE DIAGRAM SYMBOLS including HV VOLTAGE DRAWOUT TYPE POWER CIRCUIT BREAKER, MV VOLTAGE DRAWOUT TYPE POWER CIRCUIT BREAKER, LOW VOLTAGE CIRCUIT BREAKER, ST - SHUNT TRIP, DISCONNECT, ISOLATION OR SAFETY SWITCH, FUSED DISCONNECT SWITCH, MAGNETIC MOTOR STARTER, CAPACITOR, VFD, POWER TRANSFORMER, POTENTIAL TRANSFORMER RATIO, CURRENT TRANSFORMER RATIO PHASE, MOTOR, GENERAL LOAD, GENERATOR, ATS, METER, LINE OR LOAD REACTOR, DIGITAL POWER MONITOR, METER TRANSFER SWITCH, SPD, DRAWOUT DEVICE, LIGHTNING ARRESTOR, KEY INTERLOCK, GROUNDING, DENOTES BARE COPPER GROUND CABLE, DENOTES 3/4" X 10'-0" LONG GROUND ROD, DENOTES EQUIPMENT BOLTED CONNECTION, DENOTES CADWELL EXOTHERMIC CONNECTION, DENOTES PIGTAIL RISER UP THROUGH GRAVEL FOR CONNECTION TO EQUIPMENT, GROUND.

CONTROL DIAGRAM SYMBOLS

CONTROL DIAGRAM SYMBOLS including NOTE: ALL CONTROL SYMBOLS ARE DRAWN ASSUMING DE-ENERGIZED CIRCUITS, OPEN ON INCREASE, CLOSE ON INCREASE, PRESSURE SWITCH, LEVEL SWITCH, FLOW SWITCH, TEMPERATURE SWITCH, NORMALLY CLOSED, NORMALLY OPEN, PUSH BUTTON, INSTANTANEOUS CONTACT, TIMED CLOSE CONTACT, TIMED OPEN CONTACT, LIMIT SWITCH, SELECTOR SWITCH, INTERNAL WIRING, FIELD WIRING, RELAY COIL.

ABBREVIATIONS

ABBREVIATIONS table including A, AMP, AC, AFF, AFG, AHJ, AIC, AWG, BFG, CATV, CCTV, CL, CKT, CP, CPT, CT, CU, E.C., EMT, FAA, FACP, FBO, FWE, G.C., GEN, GFCI, G.GND, HP, HZ, IG, IMT, JBOX, K, KMIL, KVA, KVAR, KW, KWH, MCC, MCB, MFG, MH, MLO, MTD, MTR, MV, NC, NEC, NEUT, NO, OL, PF, PH, PRI, PT, PVC, RGS, RTD, SEC, SS, SV, TEMP, TVSS, TYP, UE, UG, UPS, AMPERES, ALTERNATING CURRENT, ABOVE FINISHED FLOOR, ABOVE FINISHED GRADE, AUTHORITY HAVING JURISDICTION, AMPERE INTERRUPT CAPACITY, AMERICAN WIRE GAUGE, BELOW FINISHED GRADE, CABLE TELEVISION, CIRCUIT BREAKER, CLOSED CIRCUIT TELEVISION, CENTER LINE CIRCUIT, CONTROL PANEL, CONTROL POWER TRANSFORMER, CURRENT TRANSFORMER, COPPER, ELECTRICAL CONTRACTOR, ELECTRIC METALLIC TUBING, FIRE ALARM ANNUNCIATOR, FIRE ALARM CONTROL PANEL, FURNISHED BY OTHERS, FURNISHED WITH EQUIPMENT, GENERAL CONTRACTOR, GENERATOR, GROUND FAULT INTERRUPTER, GROUND, HORSEPOWER, FREQUENCY IN CYCLES/SECOND, ISOLATED GROUND, INTERMEDIATE METALLIC CONDUIT, JUNCTION BOX, KILO, 1000 CIRCULAR MILS, KILOVOLT AMPERE, KILOVOLT AMPERE REACTIVE, KILOWATT, KILOWATT HOUR, MOTOR CONTROL CENTER, MAIN CIRCUIT BREAKER, MANUFACTURER, MANHOLE, MAIN LUGS ONLY, MOUNTED, MOTOR, MEDIUM VOLTAGE, NORMALLY CLOSED, NATIONAL ELECTRIC CODE, NEUTRAL, NORMALLY OPEN, OVERLOAD ELEMENT, POWER FACTOR, PHASE, PRIMARY, POTENTIAL TRANSFORMER, POLYVINYL CHLORIDE, RIGID STEEL CONDUIT, RESISTANCE TEMPERATURE DETECTOR, SECONDARY, STAINLESS STEEL, SOLENOID VALVE, TEMPERATURE, TRANSIENT VOLTAGE SURGE SUPPRESSOR, TYPICAL, UNDERGROUND ELECTRIC, UNDERGROUND, UNINTERRUPTED POWER SUPPLY, VOLTS, VOLT-AMPERES, VOLT-AMPERE REACTIVE, WATT, WATT METER, WEATHER PROOF, TRANSFORMER, EXPLOSION PROOF.

ELECTRICAL LEGEND

CITY OF QUINCY, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS 55 SEA STREET, QUINCY, MA

BROAD STREET PUMP STATION

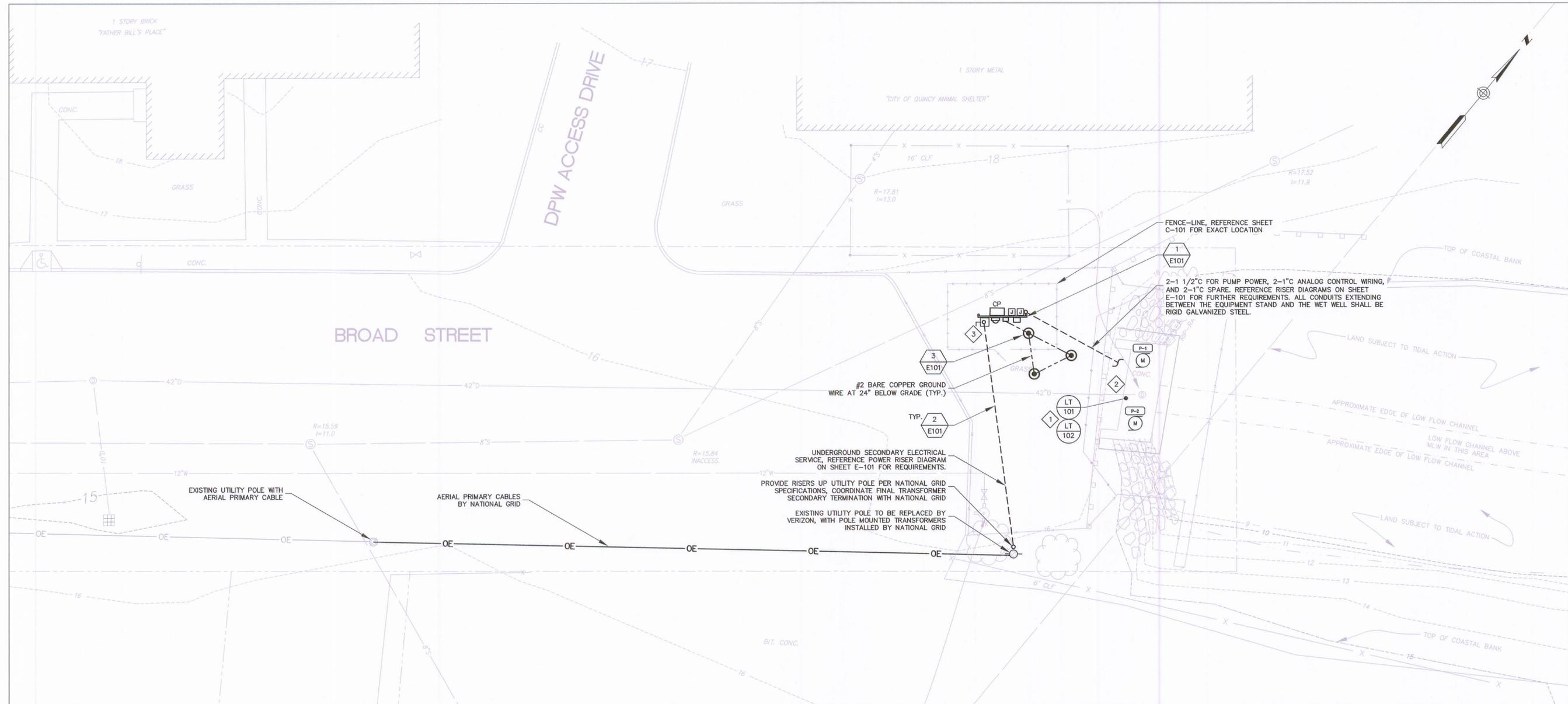
JOB NO.: 224627.01 DATE: FEBRUARY 2014 SCALE: AS NOTED SHEET: 7 OF 9

E-001

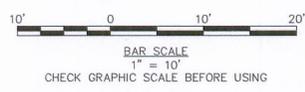
41 Hutchins Drive Portland, Maine 04102 800.426.4262 | www.woodardcurran.com COMMITMENT & INTEGRITY DRIVE RESULTS



Table with columns: REV, DESCRIPTION, DATE, CHECKED BY: A.J.F., DRAWN BY: J.H.



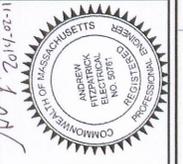
- GENERAL NOTES:**
- ALL ITEMS SHOWN WITH LIGHT DESIGNATION INDICATE EXISTING ITEMS TO REMAIN. ALL ITEMS WITH BOLD DESIGNATION INDICATE NEW WORK UNLESS OTHERWISE NOTED.
  - REFERENCE CIVIL SHEET C-101 FOR OVERALL SITE PLAN AND COORDINATION WITH OTHER UTILITIES.
  - EQUIPMENT LOCATIONS SHOWN THIS SHEET ARE DIAGRAMMATIC, COORDINATE ALL LOCATIONS WITH OTHER DISCIPLINES, AND FINAL SELECTED EQUIPMENT.
- KEYED NOTES:**
- INSTRUMENTS TO BE INSTALLED WITHIN WET WELL. SHOWN DIAGRAMMATICALLY, OFFSET FOR CLARITY. REFERENCE SHEET E-101 FOR CONDUIT & CABLE REQUIREMENTS. ALL INSTRUMENTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
  - WET WELL IS A CLASS 1 DIVISION 2 ENVIRONMENT. ALL ELECTRICAL INSTALLED WITHIN SHALL BE INSTALLED ACCORDINGLY INCLUDING, BUT NOT LIMITED TO, CONDUIT SEALS FOR ALL CONDUITS WHICH EXTEND INTO THE WET WELL AND XP JUNCTION BOXES FOR ALL POWER.
  - STUB ELECTRICAL SERVICE CONDUITS UP BENEATH UTILITY DISCONNECT SWITCH.



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 Portland, Maine 04102  
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REV	DESCRIPTION	DATE

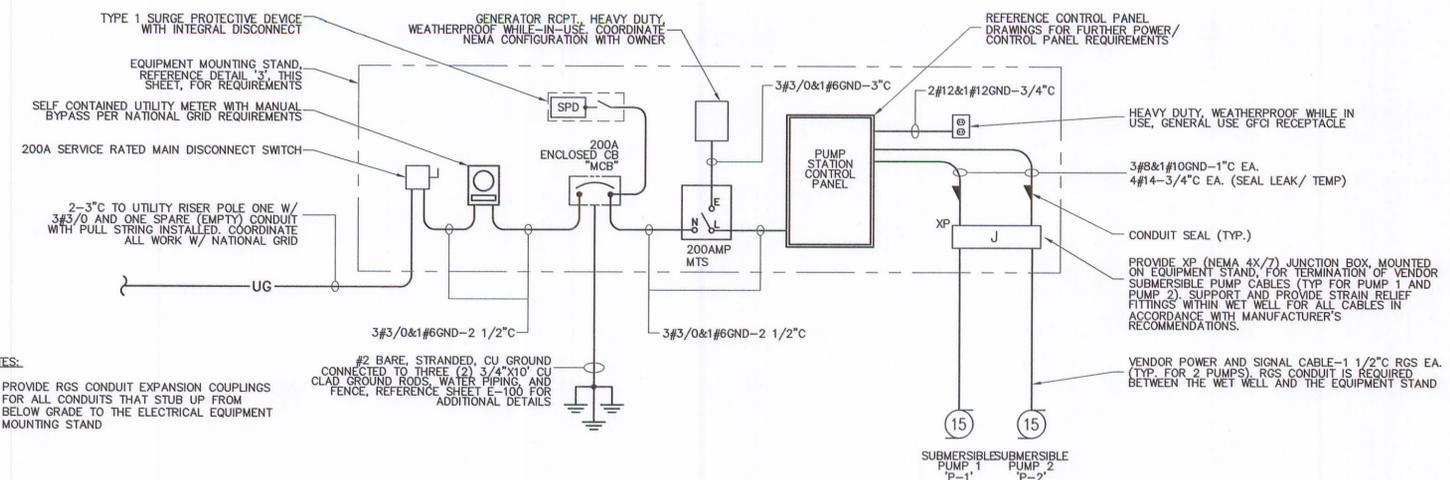
CHECKED BY: A.J.F. 12/4/2013  
 DESIGNED BY: SEH  
 DRAWN BY: J.H.

**ELECTRICAL SITE PLAN**

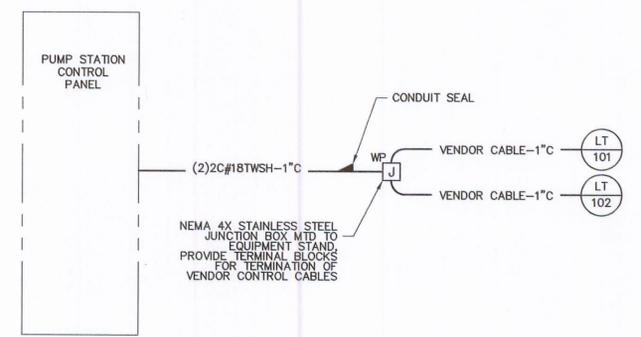
CITY OF QUINCY, MASSACHUSETTS  
 DEPARTMENT OF PUBLIC WORKS  
 55 SEA STREET, QUINCY, MA

**BROAD STREET PUMP STATION**

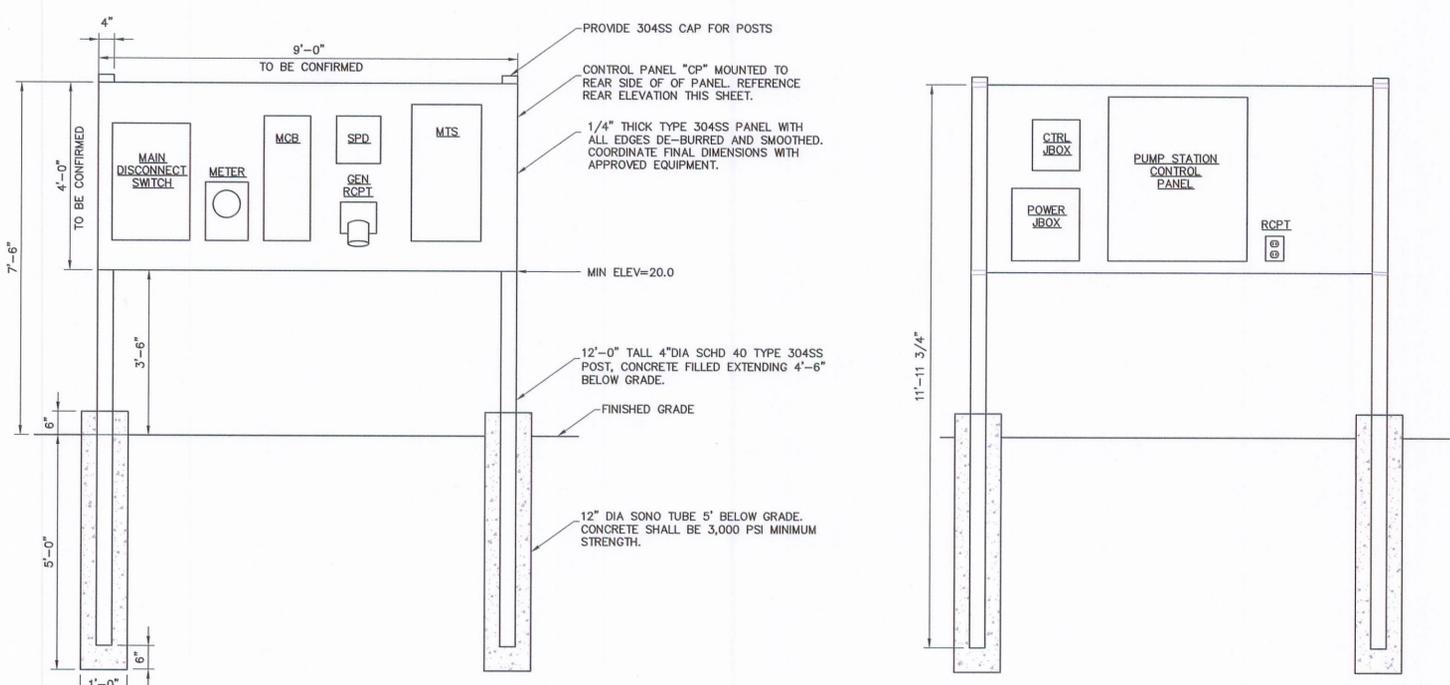
JOB NO.: 224627.01  
 DATE: FEBRUARY 2014  
 SCALE: AS NOTED  
 SHEET: 8 OF 9



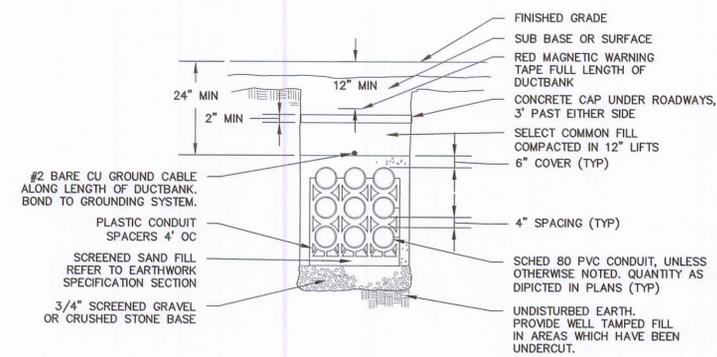
**PUMP STATION POWER RISER DIAGRAM**



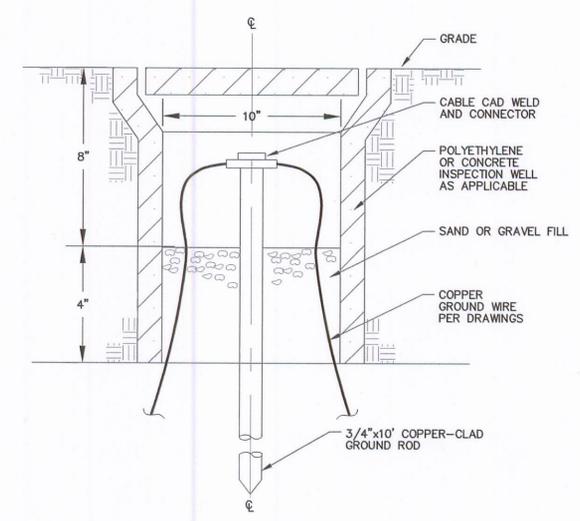
**INSTRUMENTATION AND CONTROLS RISER DIAGRAM**



**PUMP STATION EQUIPMENT MOUNTING AND STAND DETAIL**



**TYPICAL SAND ENCASED/CONCRETE CAPPED UNDERGROUND DUCT BANK DETAILS**



**GROUND INSPECTION WELL DETAIL**

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Portland, Maine 04102  
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**WOODARD & CURRAN**  
COMMITMENT & INTEGRITY DRIVE RESULTS

PROFESSIONAL SEAL: ANDREW FITZPATRICK, REG. ELECTRICAL ENGINEER, NO. 5987

REV	DESCRIPTION	DATE

DESIGNED BY: SEH  
DRAWN BY: JH  
CHECKED BY: AJP  
224627 E.O.D.M.G.

**RISER DIAGRAMS AND DETAILS**

CITY OF QUINCY, MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS  
55 SEA STREET, QUINCY, MA

**BROAD STREET PUMP STATION**

JOB NO.: 224627.01  
DATE: FEBRUARY 2014  
SCALE: AS NOTED  
SHEET: 9 OF 9

**E-101**