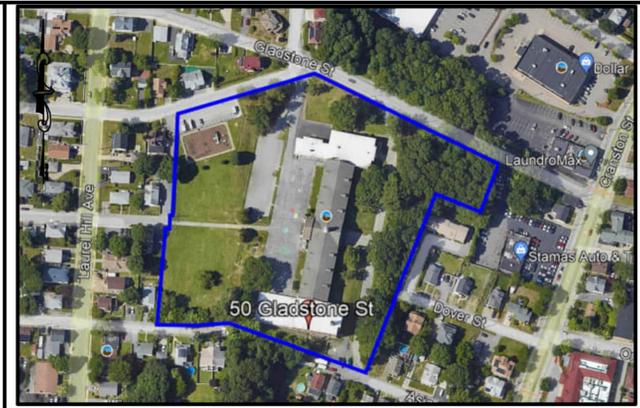


PERMITTING PLANS  
 FOR  
 GLADSTONE ELEMENTARY SCHOOL  
 50 GLADSTONE STREET  
 A.P. 7-4 LOT 2357  
 IN  
 CRANSTON, RHODE ISLAND



**LOCUS/LOCATION MAP**  
 SCALE: NTS

**SHEET INDEX**

-	TITLE SHEET
C001	LEGEND, ABBREVIATIONS & NOTES
C002	EXISTING CONDITIONS PLAN
C100	SITE PREPARATION/DEMOLITION PLAN
C101	SITE LAYOUT & GRADING PLAN
C102	STORMWATER MANAGEMENT PLAN
C103	STORMWATER MANAGEMENT PROFILES
C104	STORMWATER SYSTEM TABLES
C105	UTILITY PLAN - OVERALL SITE
C106	UTILITY PLAN - SANITARY SEWER DETAIL & PROFILE VIEWS
C107	UTILITY PLAN - FIRE PROTECTION & SOUTH HYDRANT WATER SERVICES DETAIL & PROFILE VIEWS
C108	UTILITY PLAN - DOMESTIC & NORTH HYDRANT WATER SERVICES DETAIL & PROFILE VIEWS
C109	UTILITY PLAN - GAS SERVICE DETAIL & PROFILE VIEWS
C110	UTILITY PLAN - ELECTRICAL & TELECOM SERVICES DETAIL & PROFILE VIEWS
CD101-106	CIVIL DETAILS 1-6

**PARCEL/ZONING DATA**

PARCEL: A.P. 7-4 LOT 2357  
 340,460 SF/7.82± AC

**ZONING REFERENCE: B1**

MINIMUM LOT AREA: 6,000 SF  
 MINIMUM LOT WIDTH  
 & FRONTAGE: 60'

MINIMUM SETBACKS: FRONT YARD - 25'  
 REAR YARD - 20'  
 SIDE YARD - 8'

MAXIMUM LOT COVERAGE: 35.0%  
 MAXIMUM BUILDING HEIGHT: 35'

**LOCAL/STATE/FEDERAL PERMITS REQUIRED:**

1. RIDEM RIPDES PROGRAM APPROVAL
2. CITY OF CRANSTON DEVELOPMENT PLAN REVIEW APPROVAL
3. PWSB WATER SERVICE MODIFICATION APPROVAL
4. VEOLIA WATER SANITARY SEWER SERVICE MODIFICATION APPROVAL
5. RI ENERGY GAS SERVICE MODIFICATION
6. RI ENERGY ELECTRIC SERVICE MODIFICATION
7. CITY OF CRANSTON DEPARTMENT OF PUBLIC WORKS (DPW) ROAD CUT APPROVAL

**GENERAL NOTES:**

1. THESE PLANS ARE ISSUED FOR PERMITTING REVIEW AND APPROVAL ONLY, AND ARE NOT ISSUED FOR CONSTRUCTION. PLANS MAY BE SUBJECT TO REVISIONS AND CONDITIONS OF LOCAL/STATE APPROVALS.
2. THE LOCATION AND ELEVATION FOR ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE, AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY CROSSINGS OF PROPOSED UTILITIES AND EXISTING UTILITIES. ANY DISCREPANCIES IN THE LOCATION OF ANY UTILITY SHOWN OR ENCOUNTERED DURING CONSTRUCTION SHALL BE REPORTED TO COMMONWEALTH ENGINEERS & CONSULTANTS, INC. 400 SMITH STREET, PROVIDENCE, RHODE ISLAND 02908; (401) 273-6600.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY DIG-SAFE (1-800-344-7233) A MINIMUM OF 72 WORKING HOURS, EXCLUDING WEEKENDS AND HOLIDAYS, PRIOR TO THE START OF ANY EXCAVATION WORK. THE NAME OF THE COMPANY PERFORMING THE EXCAVATION MUST BE SUPPLIED TO DIG-SAFE, IF IT IS DIFFERENT FROM THE CALLER.
4. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ADJUTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
5. UNLESS OTHERWISE NOTED OR AUTHORIZED, RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) APPROVED MATERIALS SHALL BE USED; REFER TO RIDOT'S APPROVED MATERIAL LIST.
6. CONSTRUCT ALL WORK IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF RIDOT, THE CITY OF CRANSTON, THE PROVIDENCE WATER SUPPLY BOARD, VEOLIA WATER, RI ENERGY, AND APPLICABLE MANUFACTURER'S RECOMMENDATIONS.

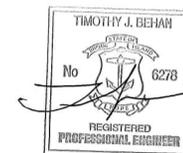
OWNER/APPLICANT:  
**CRANSTON PUBLIC SCHOOL DISTRICT**  
 845 PARK AVENUE  
 CRANSTON, RI 02910



**COMMONWEALTH**  
 ENGINEERS & CONSULTANTS, INC.

400 SMITH STREET  
 PROVIDENCE, RHODE ISLAND 02908  
 TELEPHONE: (401) 273-6600

DATE: MAY 2023



PROJECT NO. 21052.00





























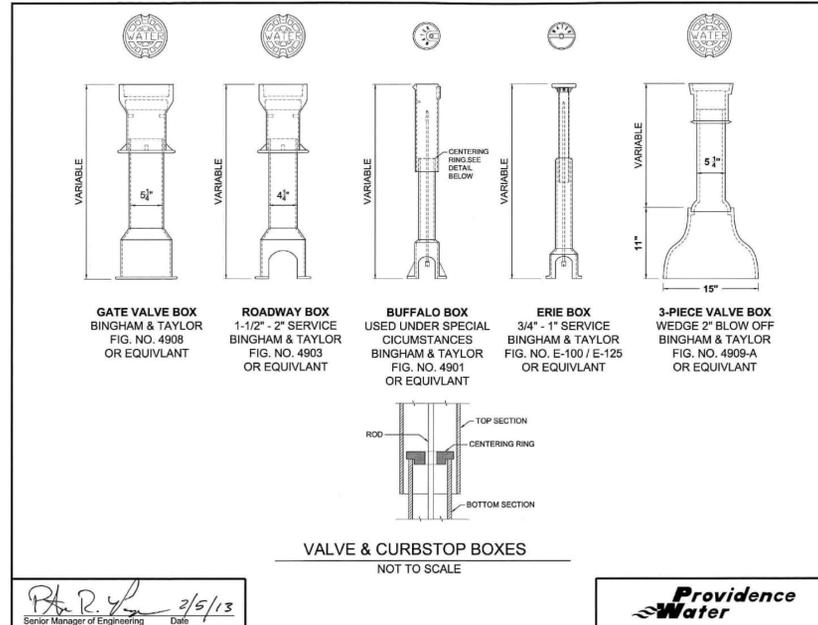
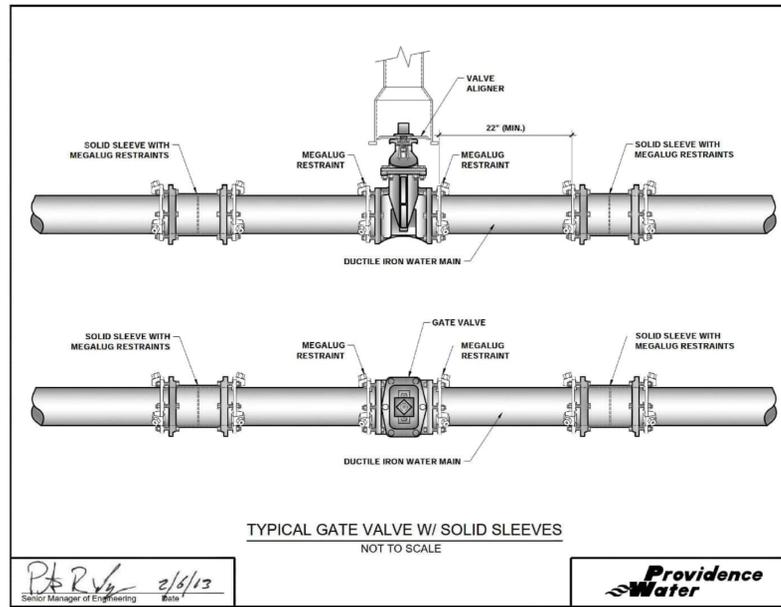




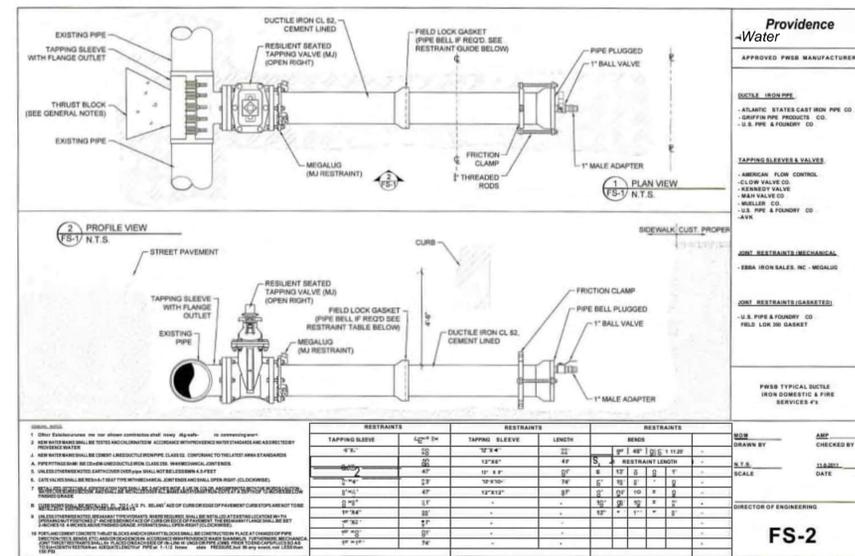
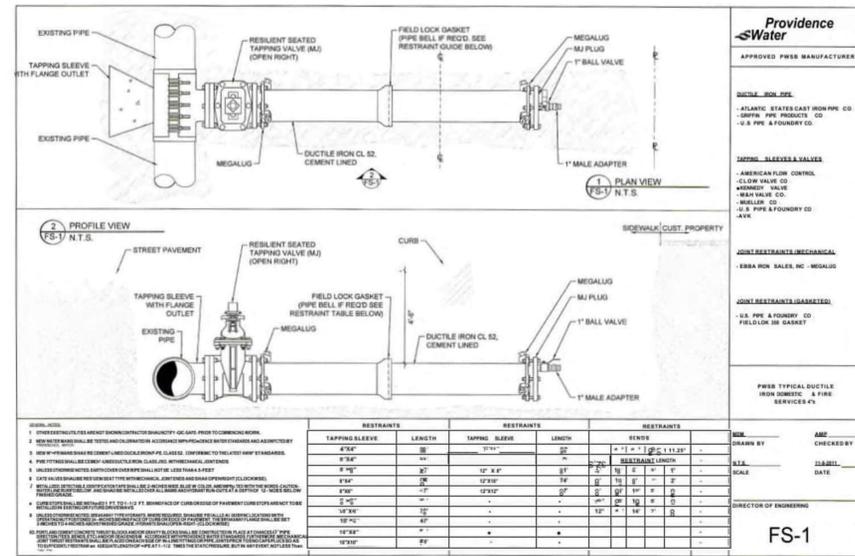
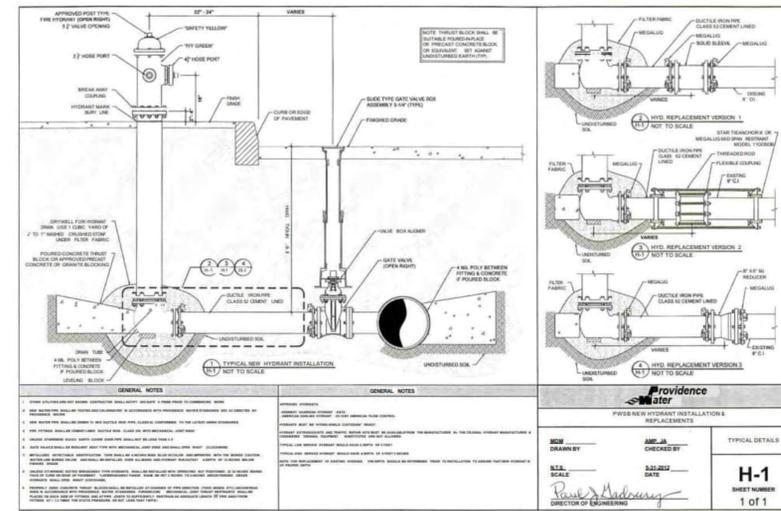
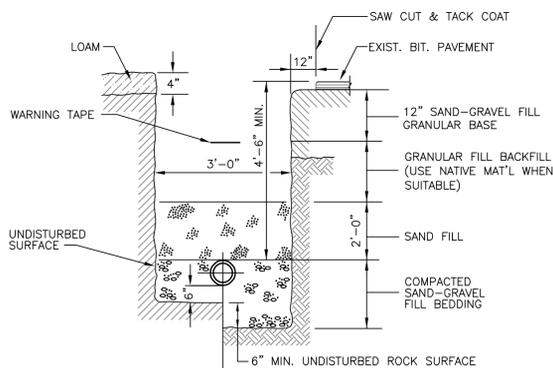


**WATER SYSTEM NOTES:**

- CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL PROVIDENCE WATER SUPPLY BOARD (PWSB) AND ANY APPLICABLE CITY OF CRANSTON RULES, REGULATIONS, AND INSTALLATION REQUIREMENTS. WHERE THERE IS A CONFLICT BETWEEN THE TWO, THE PWSB RULES SHALL GOVERN.
- CONSTRUCTION MATERIALS AND METHODS FOR WATER MAIN & SERVICE CONNECTIONS HAVE BEEN STANDARDIZED. THE CONTRACTOR SHALL ONLY USE APPROVED MATERIALS AND METHODS. APPROVED MATERIALS AND METHODS CHANGE FROM TIME TO TIME, AND MAY SUPERSEDE THE NOTES BELOW. THE CONTRACTOR SHALL CONFIRM ALL MATERIAL AND INSTALLATION REQUIREMENTS PRIOR TO BIDDING AND CONSTRUCTION.
- PIPELINE MAINS:** WATER PIPE, OF THE PUSH-ON OR MECHANICAL JOINT TYPE, SHALL BE MANUFACTURED OF DUCTILE IRON AND SHALL BE CLASS 52. DUCTILE IRON PIPE SHALL CONFORM TO ANSI/AWWA C151/A21.51, ANSI/AWWA C150/A21.50 CLASS 52 DOUBLE CEMENT MORTAR LINED. GASKETS SHALL CONFORM TO ANSI/AWWA C111/A21.11. ALL PIPES SHALL HAVE A BITUMINOUS OUTSIDE COATING IN ACCORDANCE WITH ANSI/AWWA C151/A21.51 AND ANSI/AWWA C153/A21.53 RESPECTIVELY. ALL PIPES SHALL BE CEMENT-MORTAR LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA C104/A21.14, EXCEPT THAT THE LINING THICKNESS SHALL BE TWICE THAT SPECIFIED. JOINTS FOR PIPE SHALL BE PUSH-ON (TYTON STYLE) OR MECHANICAL JOINT CONFORMING TO ANSI/AWWA C111. ALL MECHANICAL JOINT PIPES SHALL BE SUPPLIED WITH ACCESSORIES. RESTRAINED JOINTS SHALL BE SUITABLE FOR 150 PSI WORKING PRESSURE AND FABRICATED OF HEAVY SECTION DUCTILE IRON CASTING. GASKETS SHALL MEET THE MATERIAL REQUIREMENTS OF ANSI/AWWA AND MADE IN THE USA.  
  
TYPE: DUCTILE IRON MEETING ANSI/AWWA C151/A21.51 ANSI/AWWA C150/A21.50.  
CLASS: SPECIAL THICKNESS CLASS 52.  
LINING: DOUBLE CEMENT MORTAR MEETING ANSI/AWWA C151/A21.5.  
END JOINTS: PUSH ON - TYTON STYLE - MEETING ANSI/AWWA C111/A21.51.  
MECHANICAL JOINT: MEETING ANSI/AWWA C111/A21.11, 1 MIL THICK.  
COATING EXTERIOR: ANSI/AWWA C104/A21.4.  
COATING INTERIOR: ALL REQUIREMENTS OF EPA FOR POTABLE WATER.  
GASKET: RUBBER MEETING ANSI/AWWA C111/A21.11. NITRILE (IN CONTAMINATED SOIL).
- DUCTILE IRON FITTINGS** SHALL BE DUCTILE IRON, MECHANICAL JOINT, CLASS 350 (4"-24") AND CLASS 250 (30"-48") . CEMENT MORTAR LINED AND PROVIDED WITH AN ASPHALTIC COATING 1 MIL THICK ON THE EXTERIOR. DUCTILE IRON COMPACT FITTINGS, CLASS 350, MAY BE USED IN THE 4 TO 16-INCH SIZE. COMPONENTS SHALL CONFORM WITH THE WEIGHTS, EXCLUDING ACCESSORIES, AND DIMENSIONS SHOWN IN CURRENT AWWA STANDARDS. FITTINGS SHALL CONFORM TO ANSI/AWWA C153/A21.53. FITTINGS SHALL HAVE A BITUMINOUS OUTSIDE COATING IN ACCORDANCE WITH ANSI/AWWA C151/A21.51 AND ANSI/AWWA C153/A21.53 RESPECTIVELY. ALL FITTINGS SHALL BE CEMENT-MORTAR LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA C104/A21.14 EXCEPT THE LINING THICKNESS SHALL BE TWICE THAT SPECIFIED. JOINTS FOR FITTINGS SHALL BE MECHANICAL JOINT CONFORMING TO ANSI/AWWA C111. ALL MECHANICAL JOINT FITTINGS SHALL BE SUPPLIED WITH GLANDS AND ACCESSORIES.  
  
TYPE: 4 INCH TO 12 INCH DUCTILE IRON COMPACT MEETING ANSI/AWWA C153/A21.53. 16 INCH AND LARGER DUCTILE IRON MEETING ANSI/AWWA C153/A21.53 OR ANSI/AWWA C111/A21.10.  
PRESSURE CLASS: PIPE FITTINGS SHALL HAVE A PRESSURE RATING OF 350 FOR 24-INCH AND SMALLER AND 250 PSI FOR 30-INCH AND LARGER. FITTINGS SHALL AT A MINIMUM HAVE THE SAME PRESSURE RATING AS THE CONNECTING PIPE.  
GASKETS: RUBBER MEETING ANSI/AWWA C111/A21.11. NITRILE (IN CONTAMINATED SOIL).
- MAIN LINE VALVES:** VALVES UP TO 12-INCHES IN DIAMETER SHALL BE RESILIENT-SEATED STYLE. THOSE THAT ARE BURIED SHALL BE NON-RISING STEM (NRS) STYLE, OPEN "RIGHT" (CLOCKWISE) AND CAPABLE OF PRODUCING A BUBBLE-TIGHT SEAL AT 200 PSI (EITHER DIRECTION). OPERATING NUTS SHALL BE 2-INCHES SQUARE AT THE BASE, TAPERING TO 1-15/16 INCHES SQUARE AT THE TOP AND SHALL BE MANUFACTURED OF CAST OR DUCTILE IRON AND ATTACHED TO THE STEM WITH A NUT OR PIN AT THE FACTORY. NUTS SHALL BE PAINTED RED AND MARKED WITH AN "ARROW" TO INDICATE DIRECTION OF OPENING. VALVES SHALL HAVE MECHANICAL JOINT (MJ) ENDS, COMPLETE WITH ALL ACCESSORIES. MJ BOLTS AND NUTS SHALL BE RUST-PROOFED STEEL. VALVE EXTERIORS SHALL BE COATED WITH FUSION-BONDED EPOXY AT THE PLACE OF MANUFACTURE. IF REQUIRED, OPERATING STEM EXTENSION RODS SHALL BE FURNISHED AND INSTALLED WITH THE VALVE. BRONZE STEM MATERIAL SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70,000 PSI, YIELD STRENGTH OF 35,000 PSI AND MAXIMUM ELONGATION OF 15 PERCENT. STEM SEALS SHALL CONSIST OF AT LEAST TWO (2) O-RING SEALS. ONE SHALL FUNCTION AS A DIRT SEAL AND THE OTHER AS A PRESSURE SEAL AND BOTH SHALL BE CAPABLE OF BEING REPLACED WITH THE VALVE UNDER PRESSURE IN THE FULL OPEN POSITION. A THRUST WASHER OF AN APPROVED MATERIAL SHALL BE USED BETWEEN BEARING SURFACES OF THE STEM COLLAR AND VALVE UNDER 100 PSI PRESSURE ON ONE SIDE SHALL NOT EXCEED 100 FT-LBS AND THE TORQUE REQUIRED TO FULLY CLOSE A VALVE UNDER THE FLOW CONDITIONS OF 10 FT/SEC SHALL NOT EXCEED 100 FT-LBS. VALVES MUST BE ABLE TO WITHSTAND AN INPUT TORQUE OF 300 FT-LBS WITH NO DISTORTION OF THE STEM OR OTHER DAMAGE TO THE VALVE. GATE CROSS SECTION SHALL BE SYMMETRICAL ABOUT ITS VERTICAL AXIS. RUBBER SEATS SHALL BE NEW AND OF A COMPOUND NATURAL OR SYNTHETIC DESIGNATED FOR WATER SERVICE APPLICATION. RECLAIMED RUBBER IS NOT ACCEPTABLE. SEALS SHALL BE EITHER BONDED OR MECHANICALLY ATTACHED TO THE GATE. WHEN MECHANICALLY ATTACHED, ALL EXPOSED HARDWARE SHALL BE 18-8 TYPE 304 STAINLESS STEEL. THE WATERWAY INSIDE THE BODY OF THE VALVE SHALL BE FREE OF POCKETS, CHANNELS, CAVITIES, DEPRESSIONS OR OBSTRUCTIONS IN THE SEAT AREA. INTERIOR SURFACES OF VALVE BODIES SHALL BE FUSION-BONDED EPOXY COATED AT THE PLACE OF MANUFACTURE IN ACCORDANCE WITH CURRENT AWWA STANDARDS. FIELD COATING WITH EPOXY IS PROHIBITED. BONNET BOLTS, SEAL PLATE BOLTS, STUFFING BOX BOLTS AND OTHER BOLTS IN CONTACT WITH SOIL SHALL BE MANUFACTURED OF STAINLESS STEEL OR LOW-ZINC BRONZE.
- VALVE BOXES:** GATE VALVE BOXES SHALL CONSIST OF THREE (3) PIECES - COVER, UPPER SECTION, AND LOWER SECTION - ALL OF WHICH ARE MANUFACTURED OF CAST IRON. THE LOWER SECTION SHALL HAVE AN INSIDE DIAMETER OF NOT LESS THAN 5-1/4 INCHES AND A LENGTH OF AT LEAST 36 INCHES-IT SHALL BE DESIGNED TO TELESCOPE (SLIDE) INTO THE UPPER SECTION. UPPER SECTION LENGTH SHALL BE 26-INCHES. COVERS SHALL HAVE THE WORD "WATER" (IN CAPS) CAST UPON THEM. GATE VALVE BOX ALIGNERS SHALL BE USED IN EVERY GATE VALVE BOX INSTALLATION.  
  
GATE VALVE ROADWAY BOX - A GATE VALVE ROADWAY BOX SHALL CONSIST OF THREE (3) PIECES - COVER, UPPER SECTION, AND LOWER SECTION - ALL OF WHICH ARE MANUFACTURED OF CAST IRON. THE LOWER SECTION INCORPORATES TWO (2) DIAMETRICALLY OPPOSED HORSESHOE-SHAPED OPENINGS, WHICH ARE DESIGNED TO STRADDLE SERVICE PIPES UP TO 2-INCHES IN DIAMETER. ADDITIONALLY, THE LOWER SECTION SHALL HAVE AN INSIDE DIAMETER OF NOT LESS THAN 4-1/4" AND A LENGTH OF 36 INCHES - IT SHALL BE DESIGNED TO TELESCOPE (SLIDE) INTO THE UPPER SECTION. UPPER SECTION LENGTH SHALL BE 26-INCHES. COVERS SHALL HAVE THE WORD "WATER" (IN CAPS) CAST UPON THEM. GATE VALVE BOX ALIGNERS SHALL BE USED IN EVERY GATE VALVE BOX INSTALLATION.  
  
GATE VALVE BOX BINGHAM & TAYLOR FIG. NO. 4908 OR EQUIVLANT  
ROADWAY BOX 1-1/2" - 2" SERVICE BINGHAM & TAYLOR FIG. NO. 4903 OR EQUIVLANT  
BUFFALO BOX USED UNDER SPECIAL CIRCUMSTANCES BINGHAM & TAYLOR FIG. NO. 4901 OR EQUIVLANT  
ERIE BOX 3/4" - 1" SERVICE BINGHAM & TAYLOR FIG. NO. E-1001 / E-125 OR EQUIVLANT  
3-PIECE VALVE BOX WEDGE 2" BLOW OFF BINGHAM & TAYLOR FIG. NO. 4909-A OR EQUIVLANT
- DUCTILE IRON COUPLINGS:** SLEEVE COUPLINGS AND ACCESSORIES SHALL BE PRESSURE RATED TO AT LEAST EQUAL TO THAT OF THE PIPE. COUPLINGS SHALL BE DUCTILE IRON. AFTER ASSEMBLY, ALL EXTERIOR SURFACES, INCLUDING BOLTS AND NUTS, SHALL BE THOROUGHLY COATED WITH TWO (2) COATS OF HEAVY-DUTY PROTECTIVE ASPHALTIC COATING. THE INTERIOR OF THE COUPLING SHALL BE FUSION-BONDED EPOXY COATED IN ACCORDANCE WITH AWWA STANDARDS, COMPOSED OF THERMOSETTING EPOXY WITH A MINIMUM DRY FILM THICKNESS OF 10 MILS AND A MAXIMUM OF 20 MILS. BOLTS AND NUTS SHALL BE RUST-PROOFED STEEL.
- MECHANICAL JOINT RESTRAINT DEVICES** FOR NOMINAL PIPE SIZES 3 INCH THROUGH 48 INCH SHALL CONSIST OF MULTIPLE GRIPPING WEDGES INCORPORATED INTO A FOLLOWER GLAND MEETING THE APPLICABLE REQUIREMENTS OF ANSI/AWWA C110/A21.10. THE DEVICES SHALL HAVE A WORKING PRESSURE RATING OF 350 PSI FOR 3-16 INCH AND 250 PSI FOR 18-48 INCH. RATINGS ARE FOR WATER PRESSURE AND MUST INCLUDE A MINIMUM SAFETY FACTOR OF 2 TO 1 IN ALL SIZES. GLAND BODY, WEDGES AND WEDGE ACTUATING COMPONENTS SHALL BE CAST FROM GRADE 65-45-12 DUCTILE IRON MATERIAL IN ACCORDANCE WITH ASTM A536. SHALL BE MEGALUG SERIES 1100 PRODUCED BY EBAA IRON INC. OR APPROVED EQUIVAL.
- BLOW OFF ASSEMBLY:** A 2" BLOW OFF ASSEMBLY SHALL BE USED AT THE TERMINUS OF A "DEAD END" MAIN. IT CONSISTS OF THE FOLLOWING 2" DIAMETER COMPONENTS: TAPPING SADDLE, BRASS NIPPLES, BRASS ELBOW, CURB STOP VALVE (OPEN RIGHT) WITH DRAIN, GALVANIZED PIPE, DUCTILE IRON END CAP (MJ) FOR MAIN, POURED CONCRETE THRUST BLOCK, CAST IRON 4-1/4 INCH GATE VALVE ROADWAY BOX, AND CAST IRON 5-1/4 INCH GATE VALVE BOX. COMPONENTS SHALL BE JOINED TOGETHER WITH IRON PIPE THREADS.
- SERVICE PIPE UP TO 2 INCHES** IN DIAMETER ON THE CUSTOMER'S SIDE SHALL BE TYPE "K" COPPER. SERVICE SIZE WILL BE DETERMINED BY PWSB BASED UPON INFORMATION SUPPLIED BY THE CUSTOMER. USE OF INTERMEDIATE COUPLINGS IS NOT PERMITTED. CURB BOXES SHALL BE INSTALLED DIRECTLY OVER THE CURB STOP AND BROUGHT TO FINISH GRADE. THEY SHALL BE A "BUFFALO" TYPE (SLIDING), CAST IRON, 3-3/8 INCH INSIDE DIAMETER AND OF SUFFICIENT LENGTH FOR FULL COVERAGE FOR STOPS NO MORE THAN 1 INCH IN DIAMETER. BOX COVERS SHALL BE A LOCKING TYPE AND HAVE THE WORD "WATER" (IN CAPS) CAST UPON IT. GATE VALVE ROADWAY BOXES SHALL BE USED FOR 1-1/2 AND 2-INCH CURB STOPS.
- CORPORATION STOPS** SHALL BE FROM APPROVED MATERIALS LIST AND BE OF THE BRONZE COMPRESSION TYPE WITH COPPER TUBE SIZE ON THE SERVICE SIDE.
- CURB STOPS** SHALL BE LOCATED ONE (1) FOOT BEHIND FACE OF CURB OR EDGE OF PAVEMENT. CURB STOPS SHALL BE FROM THE APPROVED MATERIALS LIST AND BE BRONZE. COMPRESSION FITTED, WITHOUT DRIP. DIRECTION OF OPENING SHALL BE TO THE "RIGHT".
- SERVICE BOXES** SHALL BE FROM THE APPROVED MATERIALS LIST.
- MINIMUM COVER OVER SERVICE PIPE IS 4'-6".
- PROVIDE WARNING TAPE OVER SERVICES, AS SHOWN IN TRENCH DETAIL.
- THE WATER MAIN SHALL BE FLUSHED, PRESSURE TESTED TO A MINIMUM OF 150 PSI (OR 1.5X STATIC PRESSURE, WHICHEVER IS GREATER) AND CHLORINATED/DISINFECTED IN ACCORDANCE WITH PWSB RULES & REGULATIONS.
- PROTECTION OF WATER LINES:
  - HORIZONTAL SEPARATION:** WATER MAINS AND SERVICES SHALL BE LAID AT A MINIMUM AT LEAST 10 FEET, HORIZONTALLY, FROM ANY EXISTING OR PROPOSED SEWER MAIN OR SERVICE. SHOULD LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET, THE SEWER LINE SHALL BE CONSTRUCTED OF C-900, CLASS 150 (DR18) POLYVINYL CHLORIDE PRESSURE PIPE.
  - VERTICAL SEPARATION:** WHENEVER SEWERS CROSS UNDER WATER MAINS, OR SERVICES, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHEN THE ELEVATION OF THE SEWER CANNOT BE RELOCATED TO PROVIDE THIS SEPARATION, THE SEWER LINE SHALL BE CONSTRUCTED OF CLASS 150 (DR18) POLYVINYL CHLORIDE PRESSURE PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE WATER MAIN.



**WATER SYSTEM TYPICAL TRENCH DETAIL**  
NOT TO SCALE



- DRAWING ISSUE:**
- CONCEPT
  - CUSTOMER APPROVAL
  - PERMITTING
  - CONSTRUCTION
  - AS-BUILT
  - OTHER:
- ONLY PLANS ISSUED FOR CONSTRUCTION SHALL BE USED FOR CONSTRUCTION

PROJECT TEAM:

OWNER:  
**Cranston Public Schools**  
845 Park Ave.  
Cranston, RI 02910

Structural Engineer  
**ODEH Engineers**  
1223 Mineral Spring Ave.  
N. Providence, RI 02904

MEP Engineer  
**Creative Environment Corp.**  
195 Frances Ave., Bldg #2  
Cranston, RI 02910

Fire Protection & Code  
**Jensen Hughes**  
117 Metro Center Blvd., Suite 1002  
Providence, RI 02886

Technology  
**DA-Technology**  
477 Main St., Suite 210B  
Monroe, CT 06468

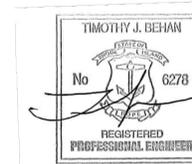
Civil Engineer  
**Commonwealth Engineers**  
400 Smith St.  
Providence, RI 02909

Landscape Architect  
**Traverse Landscape Architects**  
150 Chestnut St. 4th Fl.  
Providence, RI 02903

Kitchen Design  
**Crabtree McGrath**  
161 West Main St.  
Georgetown, MA 01833

KEY PLAN:

SHEET:



PROJECT INFORMATION:

Gladstone Elementary School

PROJECT #: P0276.00  
ISSUE DATE: March 24, 2023  
PROJECT STATUS: DD Submission  
DRAWN BY: MCZ  
CHECKED BY: TJB

SHEET NAME:  
Civil Details 5

DRAWING HISTORY:

NO. DATE DESCRIPTION

SHEET #:

**CD105**

