

Addendum Number: 03

Addendum Issue Date: July 19, 2021

Owner: Crawford Memorial Hospital

Project Name: RHC Addition and Reno

Project Number: 0200708.00

Containing: 4 Pages; 2 Drawings; 2 Specifications

*This addendum amends the drawings and specifications of the above reference project and is hereby incorporated into the contract documents as part thereof. Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form. **FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.***

General, Questions from Bidders:

1. CLARIFY requirements for type of pipe for sanitary and domestic water lines, associated hardware, type of bolts, ADS, Nyoplast drain basin, etc. (asked by John from Core and Main, 7/15/21). Requested information is addressed in the Robinson/Palestine Water Commission Standards and Specifications referenced on note G of Sheet C0.1 of the plan set. A copy of that specification is included with this addendum.
 - a. For the sanitary sewer service PVC SDR 35 or SDR 26 is acceptable.
 - b. The Nyoplast Drain is a standard ADS component. Bidders can use either the inline drain system or the drain basin option per the ADS Nyploplast website.
2. CLARIFY that it is acceptable to use press fit type valves when using press fit type fittings.
3. CLARIFY that all solenoid valves for this project shall be furnished and installed by the Plumbing Contractor. Control wiring to solenoids shall be the responsibility of the Plumbing Contractor. Power wiring shall be by Electrical Contractor.
4. CLARIFY that for Alternate 1 – Private drive replaced with asphalt that existing asphalt is to be milled, existing stone base is to be redressed and recompact, and new 6” asphalt pavement (2” HMA surface, 4” HMA base) is to be relayed.
5. CLARIFY that striping and signage is not required for Private drive replacement - Alternates 1 and 2.
6. CLARIFY that Stylmark rolling door is to be 1/4” clear tempered glass and that the butt jointed glass surrounding it is to be 3/8” tempered glass.
7. CLARIFY contractor parking and staging areas are designated in exhibit included in this addendum.

Drawings:

1. C1.0 – EXISTING TOPOGRAPHY AND DEMOLITION PLAN
 - a. REVISE notes regarding replacement of drive to read as follows “THE REPLACEMENT OF THE DRIVE SHALL BE BY ALTERNATE. PRIOR TO PRIVATE DRIVE REPLACEMENT, TAKE 2 CORE SAMPLES FOR VERIFICATION OF EXISTING PAVEMENT THICKNESS AND VERIFY WITH OWNER.”
 - b. REVISE notes regarding replacement of drive to read as follows “b. ALTERNATE 1 – PRIVATE DRIVE TO BE REPLACED WITH ASPHALT (6” ASPHALT: 2” HMA SURFACE, 4” HMA BASE ON 8” COMPACTED STONE)”.

2. C2.0 – LAYOUT PLAN

- a. REVISE notes regarding replacement of drive to read as follows “THE REPLACEMENT OF THE DRIVE SHALL BE BY ALTERNATE. PRIOR TO PRIVATE DRIVE REPLACEMENT, TAKE 2 CORE SAMPLES FOR VERIFICATION OF EXISTING PAVEMENT THICKNESS AND VERIFY WITH OWNER.”
- b. REVISE notes regarding replacement of drive to read as follows “b. ALTERNATE 1 – PRIVATE DRIVE TO BE REPLACED WITH ASPHALT (6” ASPHALT: 2” HMA SURFACE, 4” HMA BASE ON 8” COMPACTED STONE)”.

3. S0.2 – GENERAL INFORMATION

- a. REVISE steel general note M.2. to read as “GALVANIZE ALL EXTERIOR STEEL, MASONRY LINTELS IN EXTERIOR WALLS, AND THEIR CONNECTIONS.”

4. A8.31 – TYPICAL CASEWORK DETAILS

- a. REVISE details 7 and 9 to read as “3/8” tempered glass” in lieu of “1/4” tempered glass”.

5. M1.4 – MECHANICAL ROOF PLAN

- a. ADD keynote 1.
- b. ADD boiler combustion air intake and exhaust flues as shown.

6. M3.1 – ENLARGED PLANS

- a. ADD keynote 6.
- b. ADD boiler combustion air intake and exhaust flues as shown.

Specifications:

1. 00 0010 TABLE OF CONTENTS

- a. ADD 23 5100 – BREECHINGS, CHIMNEYS, AND STACKS in its entirety.

2. 00 4000 PROCUREMENT FORMS AND SUPPLEMENTS

- a. DELETE Paragraph 1.3.A – CLARIFY that bidder qualifications will be addressed in Bid Form Attachment B in lieu of AIA A305.

3. 00 5400 COLD FORMED METAL FRAMING

- a. Paragraph 2.3.A – REVISE to read: “Light gage framing sizing is determined by delegated design per light gage manufacturer to performance criteria indicated.
- b. Paragraph 2.3.B.1 – REVISE to read: “Gage and Depth: Intended depths are shown on drawings but thicknesses are not as they are to be determined by the manufacturer. A minimum of 0.0428 inches shall be provided.”
- c. ADD new Paragraph 2.3.G: “G90 galvanizing is minimum requirement for cold formed metal framing”.

4. 04 7500 – CAST STONE MASONRY

- a. Paragraph 2.1 – ADD new paragraph 201.B.5 – Marcstone

5. 09 2116 GYPSUM BOARD ASSEMBLIES

- a. Paragraph 2.2.B - ADD new paragraph 2.2.B.6: “20 gage is minimum thickness for non-load bearing metal stud framing”.
- b. Paragraph 2.2.B – ADD new paragraph 2.2.B.7: “G40 galvanizing is minimum requirement for non-load bearing metal stud framing.”

6. 19 02660 – WATER DISTRIBUTION – CITY OF ROBINSON WATER COMMISSION

- a. ADD specifications section in its entirety.

Farnsworth Group, Inc.

Addendum

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7. 23 7313 – MODULAR CENTRAL-STATION AIR-HANDLING UNITS
 - a. REVISE Part 2.1 to indicate Trane, Inc. as sole acceptable manufacturer.
8. 23 5100 – BREECHINGS, CHIMNEYS, AND STACKS
 - a. ADD specifications section in its entirety.

Bids are Due: July 21, 2021 / 2:00 PM local time via email to Brooke McGuire bmcguire@f-w.com and copy Dave Burnison dburnison@f-w.com

END OF ADDENDUM

Issued By:

FARNSWORTH GROUP, INC.
Brooke McGuire
Project Coordinator

Attachments:

Drawings: M1.4, M3.1

Specifications: 23 5100

Reference Documents: 19 02660 Robinson/Palestine Water District Standards and Specifications

List of invited bidders:

Hannig Construction Inc.	Jason Jones	jjones@hannigconstruction.com
Grunloh Construction Inc.	Chad Armstrong	carmstrong@grunloh.com
S.M. Wilson & Co.	Greg Williams	greg.williams@smwilson.com
	Kerry Lorts	kerry.lorts@smwilson.com

W Highland Ave

N Truman St

N Allen St

CONTRACTOR
PARKING/ STAGING

W Mefford St

AW Eyecare

Nick Mammoser -
COUNTRY Financial...

ACCESS TO SITE

N Allen St

EXISTING BUILDING

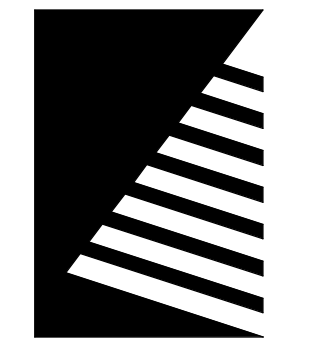
N Allen St

CONTRACTOR
STAGING AREA

N Allen St



KEYNOTES
 1 6" COMBUSTION AIR INTAKE AND EXHAUST FLUE TERMINATIONS. INSTALL PER BOILER MANUFACTURER'S WRITTEN INSTRUCTIONS TYP. OF 2.

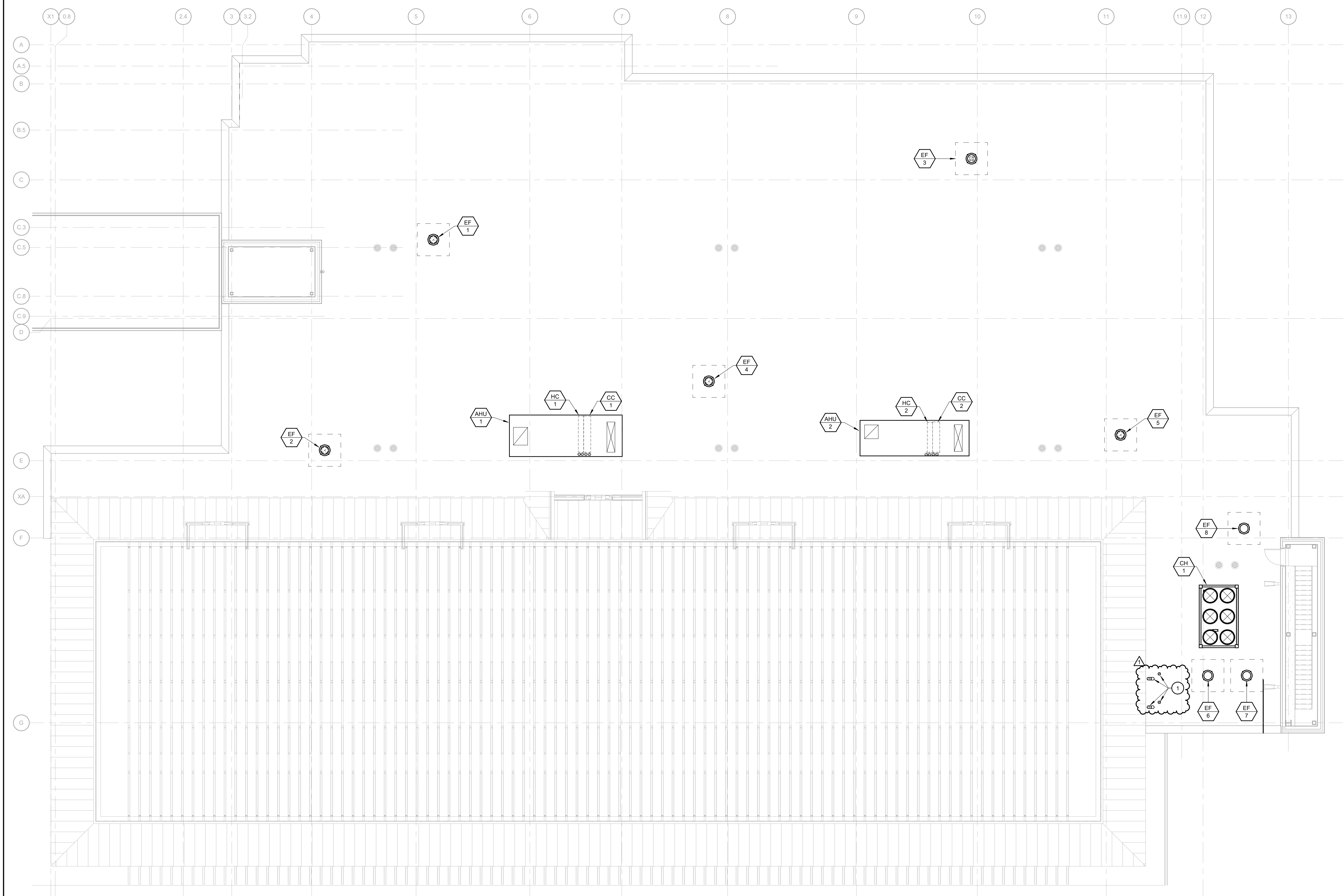


Farnsworth GROUP

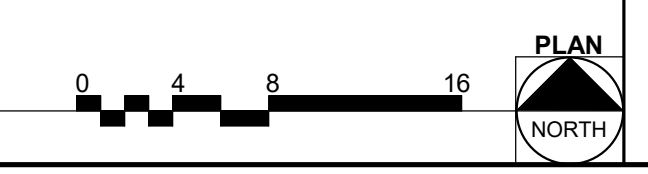
200 W. COLLEGE AVENUE, SUITE 301
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 (309) 663-8436 / info@f-w.com

www.f-w.com
 Engineers | Architects | Surveyors | Scientists

#	DATE	DESCRIPTION
1	07/19/2021	ADD 03



1 ROOF MECHANICAL PLAN
 SCALE: 1/8" = 1'-0"



BID SET
 06/11/2021

PROJECT:
 Crawford Memorial Hospital

RHC Addition and Reno

1101 North Allen Street
 Robinson, IL 62454

DATE: 06/11/2021
 DESIGNED: WRH
 DRAWN: KJJ/WRH
 REVIEWED: DRR

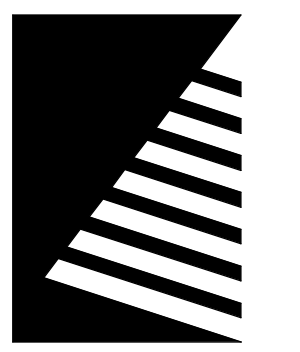
SHEET TITLE:
MECHANICAL ROOF PLAN

SHEET NUMBER:

M1.4

PROJECT NO.: 0200708.00

7/19/2021 10:27:37 PM



Farnsworth
GROUP

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Engineers | Architects | Surveyors | Scientists

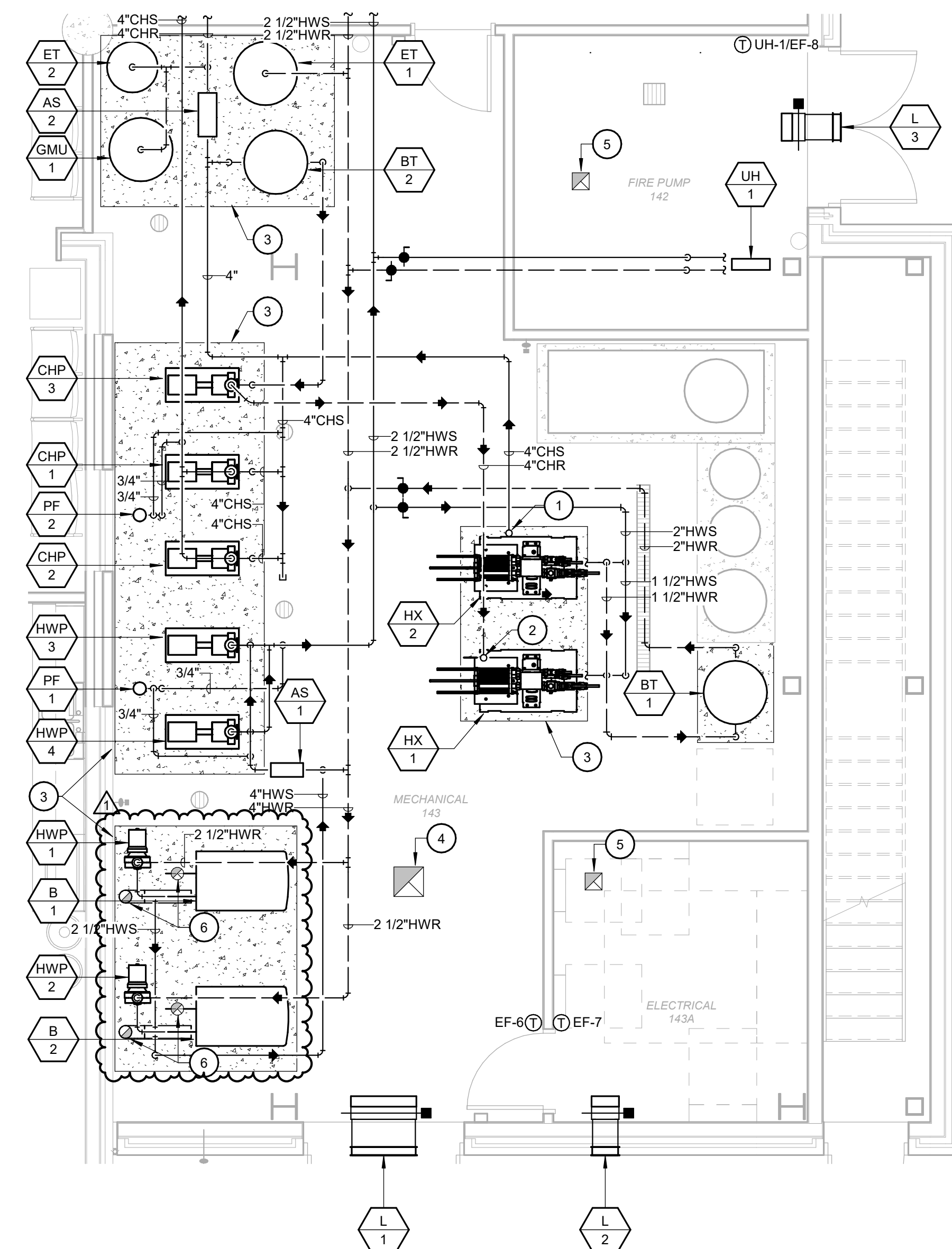
#	DATE	DESCRIPTION
1	07/19/2021	ADD 03

GENERAL NOTES

- A. PIPE SIZES ARE NOMINAL.
- B. PIPES 2" AND UNDER SIZED FOR 4 FEET PER SECOND MAXIMUM VELOCITY.
- C. PIPES LARGER THAN 2" SIZED FOR A MAXIMUM PIPING FRICTION LOSS OF 4 FEET OF HEAD PER 100 LINEAR FEET OF PIPE.
- D. ALL PIPES ARE 3/4" UNLESS NOTED OTHERWISE.
- E. REFER TO DETAILS 1 AND 2 ON SHEET M5.2 FOR PIPING DIAGRAMS.

KEYNOTES #

- 1 4" CHWS FROM CHILLER ON ROOF ABOVE.
- 2 4" CHWR UP TO CHILLER ON ROOF ABOVE.
- 3 4" THICK CONCRETE HOUSEKEEPING PAD.
- 4 14x14 EA UP TO EXHAUST FAN ON ROOF ABOVE.
- 5 14x14 EA UP TO EXHAUST FAN ON ROOF ABOVE.
- 6 6" COMBUSTION AIR INTAKE FROM ABOVE AND 6" EXHAUST FLUE UP SIZE AND MATERIAL PER BOILER MANUFACTURER'S WRITTEN INSTRUCTIONS.



1 ENLARGED MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"



BID SET
06/11/2021

PROJECT:
Crawford Memorial Hospital

**RHC Addition and
Reno**

1101 North Allen Street
Robinson, IL 62454

DATE: 06/11/2021
 DESIGNED: KJJ/WRH
 DRAWN: KJJ/WRH
 REVIEWED: DRR

SHEET TITLE:
ENLARGED PLANS

SHEET NUMBER:

M3.1

PROJECT NO.: 0200708.00

SECTION 23 5100 - BREECHINGS, CHIMNEYS, AND STACKS

PART 1 GENERAL

1.1. SECTION INCLUDES

- A. Condensing Boiler gas vents.

1.2. RELATED REQUIREMENTS

- A. Section 07 8400 - Firestopping.

1.3. REFERENCE STANDARDS

- A. NFPA 54 - National Fuel Gas Code; 2018.
- B. NFPA 211 - Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances; 2019.
- C. SMACNA (DCS) - HVAC Duct Construction Standards Metal and Flexible; 2005 (Revised 2009).
- D. UL 103 - Factory-Built Chimneys for Residential Type and Building Heating Appliances; Current Edition, Including All Revisions.

1.4. DESIGN REQUIREMENTS

- A. Factory built vents and chimneys used for venting natural draft appliances shall comply with NFPA 211 and be UL listed and labeled.

1.5. SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate general construction, dimensions, weights, support and layout of breechings. Submit layout drawings indicating plan view and elevations where factory built units are used.
- C. Manufacturer's Instructions: Include installation instructions, and indicate assembly, support details, and connection requirements.

PART 2 PRODUCTS

2.1. MANUFACTURERS

- A. Heat Fab.
- B. Metal-Fab.
- C. DuraVent.
- D. Selkirk.

2.2. BREECHINGS, CHIMNEYS, AND STACKS - GENERAL REQUIREMENTS

- A. Regulatory Requirements:
 - 1. Conform to applicable code for installation of natural gas burning appliances and equipment.

2.3. CONDENSING BOILER GAS VENT

- A. Provide factory-built, modular connector and manifold system, tested to UL 1738 with 15" w.c. positive pressure rating.
- B. Assembly to be UL listed for use with building equipment in compliance with NFPA 211.
- C. Fabricate with 0.5 inches minimum air space between walls and construct inner liner of AL29-4C stainless steel and outer jacket of 304 stainless steel or 430 stainless steel.
 - 1. Protect aluminized steel surfaces exposed to the elements with a minimum of one base coat of primer and one finish coat of corrosion resistant paint suitable for outer jacket skin temperatures of the application.
- D. Design, fabricate, and install gas-tight preventing products of combustion leaking into the building.
 - 1. Securely connect inner joints and seal with factory supplied overlapping V-bands and appropriate sealant in accordance with manufacturer's instructions.

2. System design to compensate for all flue gas induced thermal expansion.
3. Vent system to slope a minimum of 1/4" per foot. Provide condensate drainage points as required.

PART 3 EXECUTION

3.1. INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install in accordance with NFPA 54.
- C. Install breechings with minimum of joints. Align accurately at connections, with internal surfaces smooth.
- D. Support breechings from building structure, rigidly with suitable ties, braces, hangers and anchors to hold to shape and prevent buckling. Support vertical breechings, chimneys, and stacks at 12 foot spacing, to adjacent structural surfaces, or at floor penetrations. Refer to SMACNA (DCS) for equivalent duct support configuration and size.
- E. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 07 8400.
- F. For Type B double wall gas vents, maintain UL listed minimum clearances from combustibles. Assemble pipe and accessories as required for complete installation.
- G. Clean breechings, chimneys, and stacks during installation, removing dust and debris.
- H. Provide maximum 2 feet of breeching to connect appliance to chimney. Provide Type B chimney continuously from appliances.

END OF SECTION

DIVISION 2 - SITE WORK
SECTION 02660 - WATER DISTRIBUTION

PART 1 PRODUCTS

1.1 WATER MAIN

- Materials for the water systems piping, fittings, valves and appurtenances shall be made in the United States of America.
- A. Polyvinyl Chloride (PVC) Pipe: ASTM D2241 (SDR-21) NSF 14.
 - 1. Minimum SDR rating 21 (SDR-21) with minimum pressure rating of 200 psi (1379 kPa) at 23°C.
 - 2. Pipe marking NSF 14.
 - 3. Fittings ductile iron AWWA C-110 or AWWA C-153 with gasket joints compatible with pipe furnished. All fittings shall be restrained by a mechanical device.
 - 4. Gaskets ASTM F477 elastomeric seal.
- B. Certa-Lok Yelomine Pipe: ASTM D2241 (Restrained Joint for HDD) Or Approved Equal
 - 1. Minimum SDR rating 21 (SDR-21) with minimum pressure rating of 200 psi (1379 kPa) at 23°C.
 - 2. Gaskets ASTM F477.
 - 3. Couplings and fittings tested in accordance with NSF-14.
 - 4. Transition between Restrained Joint and Plane end Pipe with Ductile Iron Solid Sleeve.

1.2 TAPPING VALVE AND SLEEVE

- A. Tapping sleeve shall be manufactured in the U.S.A. and the sleeve shall be three hundred four (304) stainless steel body with a ductile iron flange that has a rubber seal. The sleeve shall have a full gridded SBR rubber gasket that wraps completely around the pipe for the full of the sleeve. All nuts and bolts shall be three hundred four (304) stainless steel. The sleeve shall have a built-in tolerance for variances in type and class for each pipe material as shown on the material proposal. All tapping sleeves shall be furnished with a three hundred four (304) stainless steel 3/4" NPT test plug for pressure testing and have a locator groove on the mating surface between tapping valve and sleeve to allow for positive alignment. Tapping valve shall be Mueller.
- B. Contractor shall contact the Water Commission in advance to determine who will be completing the tap.

DIVISION 2 - SITE WORK
SECTION 02660 - WATER DISTRIBUTION

2.3 VALVES

- A. Non-rising stem gate valves 12" (600 mm) and smaller –Mueller A-2360; AWWA C-509 resilient wedge with restrained, mechanical joints compatible with pipe furnished. The Water Commission will only accept an equal if pre-approved.
- B. Valve boxes: cast iron with "WATER" on the cover.

2.4 FIRE HYDRANT

- C. Dry-barrel fire hydrants: AWWA C-502
 - 1. 3-Way Fire Hydrant (6") (150 mm) inlet as shown on the Plans. (Flushing hydrant shall be a 2-way fire hydrant)
 - 2. Joints to be restrained from the hydrant through the main.
 - 3. Mueller Super Centurion 250, A-423, 5 1/4" three way, or pre-approved equal. The Water Commission will only accept an equal if pre-approved.

2.5 TRACER WIRE

- A. # 12 THWN, Single strand solid copper wire

1.6 TRACER WIRE TEST STATIONS

- A. Flush Mounted: 2-inch Cathodic Test Station by Handley Industries, Inc. or approved equal.
 - 1. 15" Superior Grade ABS plastic box with 2 3/8" I.D.
 - 2. One piece locking cast iron lid.
- B. Above grade mounted: Rhino TriView, Triangular, plastic
 - 1. High visibility with "WATER" marked on the sides

2.7 SERVICE MATERIAL

- A. Saddle: Mueller, AWWA CC Taper threads, S-13000 Series.
- B. Corporation Stop: Mueller, AWWA CC Taper threads, Conductive Compression Connection, B-25008.
- C. Water Service Pipe shall be Copper, 200 psi rated NSF 61 approved.
- D. Service fittings as necessary to connect the service.

2.8 SEEDING and MULCHING

- 1. IDOT Standard Specification for Road and Bridge Construction

DIVISION 2 - SITE WORK
SECTION 02660 - WATER DISTRIBUTION

- a. Seeding per Class 1 of Article 250.
- b. Mulching per Article 251.

2.9 SURFACE RESTORATION

- A. All surface restoration shall have a minimum thickness of the table below or match the existing thickness if greater than value in the table.

Commercial Concrete Driveway/Pavement	8" thick
Residential Concrete Driveway	6" thick
Concrete Sidewalk	4" thick
Roadway Pavement (City's Requirements)	Compact fill sand or CA-6 rock and Class SI Concrete (7 bag mix)
Topsoil	6" thick
Gravel / Crushed Stone	8" thick of Compacted CA-6

- B. Full depth saw cuts at all concrete removal locations. Concrete shall be sawed and removed to the next joint if the joint is within the width of the patch to the edge of the patch (i.e. if the patch is 2' wide and the next joint is closer than 2' from the edge of the patch, the concrete will be removed and sawed at the next joint).

2.10 TRENCH BACKFILL

- A. Relative density shall be determined as stipulated in ASTM D4253. Use only backfill for trenches which is free from rocks, large roots, other vegetation or organic matter, and frozen material.

2.11 MECHANICAL JOINT RESTRAINT DEVICES

- A. Mechanical Joint Fitting Restraint Devices for both Ductile Iron Pipe and PVC shall have the restraint of mechanical joints incorporated into the follower gland and shall include a mechanism to impart multiple wedging action that increases with increasing pipe pressure. Follower glands shall be manufactured of ductile iron in accordance with ASTM A536.
- B. Dimensions of the follower gland shall conform to and shall be compatible with mechanical joints in accordance with ANSI/AWWA C111/A21.11 and ANSI/AWWA C153/A21.53.
- C. The device shall be rated for a minimum of 250 psi working pressure and a minimum safety factor of 2:1. The device shall incorporate torque nuts that twist off to assure proper torque is applied when installing.
- D. Manufacturers shall be Romac, EBAA Iron, Uni-Flange or Tyler Union.

DIVISION 2 - SITE WORK
SECTION 02660 - WATER DISTRIBUTION

2.12 MATERIALS

- A. All materials are to be domestically produced/manufactured.

PART 2 EXECUTION

2.1 INSTALLATION

- A. Pipe shall be installed in accordance with the plans and above referenced specifications except as modified below.
- B. Installation shall be in accordance with manufacturer's instructions.
- C. All pipe shall be tested per Section 41.2.14 and 42.2.15 of the Standard Specifications for Water and Sewer Construction in Illinois, 6th Edition. Minimum test pressure of 1.5 x static pressure or 100 psi (620 kPa), whichever is greater. Pressure test shall be held for one hour and no leakage is allowed.
- D. All Traffic Control measures, layout and equipment shall be in accordance with the Illinois Department of Transportation standards for Traffic Control. Traffic Control will not be paid for separately but included in the unit price of the water main.

2.2 EXISTING UTILITIES

- A. Joint Utility Location Information for Excavators: Call the toll-free J.U.L.I.E. telephone number, 1-800-892-0123, before starting excavation. Allow 48 hours for other than emergency assistance. It shall be the Contractor's responsibility to locate or have located all utilities.

2.3 RIGHT-OF-WAY

- A. Working Right-of-Way: The Contractor shall confine his operations to the limits of the working right-of-way and easements as shown on the plans. He will be held responsible for any damage to adjacent property not within the limits of the right-of-way.

2.4 PIPING INSTALLATION

- A. Disconnecting Existing Water Mains: Where shown on the plans, the existing water mains shall be disconnected. The separation shall be made in one of two ways. It may consist of removing the water main from an existing valve or fitting and plugging the opening, or the Contractor may remove a section of the main, including the fitting, install two sleeves, and a short length of pipe.
- B. Connect Existing Service to New Main: Where existing water mains are to be abandoned, the existing services shall be disconnected from the existing water main and reconnected to the proposed water main after the proposed water main is constructed, tested, sterilized and

DIVISION 2 - SITE WORK
SECTION 02660 - WATER DISTRIBUTION

placed into service. The work shall include furnishing and installing a corporation stop in the new main with saddle, cutting and disconnecting the existing service from the old main, plugging the existing service at the point of connection to the existing water main, and connecting the service pipe to the new corporation stop.

- C. Tracer Cable: Furnish and install a direct bury #12 THWN single strand copper electrical cable suitable for direct burial with 4-inch (100 mm) and larger proposed water mains. Cable to be taped or attached in an approved manner to all water mains during installation and prior to backfilling. Cable shall extend continuously up through all test stations to a point 2-feet (600 mm) minimum above finish grade. No field splices permitted except above ground at test stations. All test stations shall be located at each hydrant or determined by the Engineer.

2.5 FIELD QUALITY CONTROL

- A. Construction Observation and Inspection: Owner will employ a qualified engineering agency or staff to perform construction observation and inspection.

- B. Disinfection of Water Mains

- 1. Flushing of new mains: There will be no charge by the Owner to the Contractor for the water used to flush the mains, chlorinate, and flush the mains a second time. If it is necessary to flush the mains more than twice as noted, Contractor will be charged by the Owner for water used to flush the mains. Contractor shall provide and install any hose necessary to direct the water being flushed away from any area it might damage.

- C. Final Flushing and Testing

- 1. All samples must be collected by the Contractor and observed by a designated sample collector of the Owner and tested at an EPA approved laboratory. Contractor shall transport the samples to the laboratory and pay all lab fees.
- 2. Water mains that fail the initial bacterial test shall be flushed again before additional sampling is commenced. If the second sample also fails the bacterial test, disinfection shall be repeated and the main flushed again prior to the third sampling. If the third sample fails the bacterial test, the next step shall be determined by the Owner and the Engineer. All sterilization shall be performed with a designated representative by the Owner in attendance.

Test results shall be mailed to the Engineer. Water sample bottles shall be furnished by the laboratory.

2.6 CLEAN UP

- A. Excess Excavation: All excess excavated materials shall become the responsibility of the Contractor for disposal off the construction site as approved by the Engineer except that the

DIVISION 2 - SITE WORK
SECTION 02660 - WATER DISTRIBUTION

Owner reserves the right to have selected excavated materials deposited at designated locations within the City Limits at no additional cost to the Owner.

- B. Property of the Owner: All pipe fittings, valves, hydrants and accessories removed from the existing mains shall become the responsibility of the Contractor for disposal off the construction site, except that the Owner reserves the right to have selected excavated materials (including pipe, hydrants, etc.) delivered to a location specified by the Owner at no additional cost to the Owner.

END OF SECTION 02660