

ADDENDUM NO. 1
TO THE CONTRACT DOCUMENTS
FOR THE CONSTRUCTION OF THE
N. CHICAGO LIFT STATION IMPROVEMENTS
CITY OF SOUTH MILWAUKEE, WISCONSIN

DATE: 15 May 2018

BID DATE: 2:00 P.M. Local Time, May 17th, 2018 (UNCHANGED)

TO ALL BIDDERS ON THE ABOVE PROJECT:

The following changes, additions and deletions are hereby made a part of the Contract Documents for the N. Chicago Lift Station Improvements as fully and completely as if the same were fully set forth therein.

Bidders shall acknowledge receipt of this Addendum by inserting the number and date in the space provided in the Bid Form.

SPECIFICATIONS

SECTION 00200 – INSTRUCTIONS TO BIDDERS

1. Paragraph 23.3
Delete this paragraph in its entirety.

SECTION 00410 – BID FORM

1. Replace Bid Form in its entirety with the attached, revised Bid Form.

SECTION 01500 – TEMPORARY FACILITIES AND CONTROLS

1. Paragraph 1.4.A.1
Revise this section to read as follows:
 1. *The Contractor shall maintain a minimum of one lane of traffic in each direction on streets at all times. Roads shall be maintained in a safe condition throughout the duration of the project. The Contractor shall take all precautions necessary to safely warn the public of the probable increased danger to travel due to construction of the Work. The Contractor shall prepare a traffic control plan and submit to the City Engineer's office for approval prior to the commencement of the work.*

SECTION 03300 – CAST-IN-PLACE CONCRETE

1. Paragraph 2.2.F.

Revise this section to read as follows:

F. Integral waterproofing admixture: Hydrophilic, crystalline admixture for waterproofing concrete. Admix C-500 by Xypex; Penetron by W.R. Grace; Kystol Internal Membrane by Kryton; ADI-CON Plus by W.R. Meadows; or Hycrete W500 by Hycrete, Inc.; MasterLife 300D by BASF Corporation or approved equal. Add admixture to concrete in accordance with manufacturer's recommendations.

SECTION 11316 – SUBMERSIBLE PUMPS

1. Paragraph 1.5.B.4

Revise this section to read as follows:

4. *Factory Performance Test*

- a. Factory performance tests are required on all pumps in accordance with Hydraulic Institute Standards.*
- b. Conduct tests using the pumps and motors actually furnished for the project.*
- c. Provide pump performance curves for 70 %, 85% and 100% speeds required to meet the hydraulic requirements specified in paragraph 1.4.B. Each performance curve shall include at least five data points for each pump, including shutoff and maximum flow without exceeding motor rating.*
- d. Complete factory test shall include:
 - 1) Flow capacity
 - 2) Head
 - 3) Pump efficiency
 - 4) Brake horsepower requirements*

2. Paragraph 2.4.D.2

Revise this section to read as follows:

2. *Guide rails:*

- a. Number of guide rails per pump: 2.*
- b. Length, feet: See Drawings.*
- c. Construction: 3-inch, 316 stainless steel.*

3. *Include upper and intermediate guide rail supports for each pump.*

4. *Pump lifting system:*

- a. Provide 316 stainless steel guide rope and a short length of stainless steel chain for each pump to allow removal with a chain grip.*
- b. Provide stainless steel cable holders for each pump.*
- c. Provide a carbon steel "Grip-Eye" chain grip.*

SECTION 14600 – HOIST AND MONORAIL SYSTEMS

1. Paragraph 2.4.B.4.

Revise this paragraph to read as follows:

4. *Hoisting rope: Flexible plow steel wire rope made for hoist service or stainless steel chain suitable for explosion proof service.*

SECTION 15020 – DETAIL PIPING SPECIFICATION – POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS

1. Add the attached specification to the contract documents.

SECTION 16483 – ADJUSTABLE SPEED CONTROLLERS (ASC)

1. Paragraph 2.1.C

Immediately after this paragraph, add the following:

- D. *ABB, 18-pulse (ABB, 6 pulse, if HP is less than 50).*

DRAWINGS

DRAWING 10-E-1 – ELECTRICAL LEGEND

1. Add the attached drawing to the contract documents.

DRAWING 20-G-1 – PROJECT LOCATIONS

1. Revise the callout pointing to the South Milwaukee Water Tower from “**SOUTH MILWAUKEE WATER TOWER SEE STANDARD DETAIL 13960**” to “**SOUTH MILWAUKEE WATER TOWER SEE STANDARD DETAIL 13962**”.

DRAWING 30-AS-5 – ARCHITECTURAL/STRUCTURAL PLAN

1. Revise Section C by adding the following callout to the building roof:

“PROVIDE FLASHING FOR 4” V, SEE DRAWING 30-M-3 AND STANDARD DETAIL 07616.”

DRAWING 30-M-1 – MECHANICAL PLAN

1. Revise the callout in the Pump Room from “**8”x12” TEE**” to “**10”x12” TEE**”.

DRAWING 30-E-3 ELECTRICAL PLAN

1. Revise the Drawing by adding the following note:

"7. NEMA 7 JUNCTION BOXES FOR FIELD INSTRUMENTATION SHALL INCLUDE TWO EXPLOSION PROOF SEALOFFS AND SEALING COMPOUND, SIMILAR TO DETAIL 16261.

DRAWING 90-I-3 – NETWORK RISER REMOVAL DIAGRAM

1. Revise the network riser removal diagram by showing the *EXISTING WONDERWARE SCADA COMPUTER SYSTEM* to be removed by contractor.

DRAWING 90-I-4 – NETWORK RISER INSTALL DIAGRAM

1. Revise the network riser install diagram by changing the label of the EXISTING WONDERWARE SCADA COMPUTER SYSTEM to NEW WONDERWARE SCADA COMPUTER SYSTEM.
2. Revise the network riser install diagram by changing the lineweight of the WWTF Wonderware SCADA computer system from existing to new construction.

DRAWING 99-I-1 – I&C DETAILS

1. Revise standard detail 13362 by changing the note to the junction box from "*NEMA 4 TERMINAL JUNCTION BOX REQUIRED*" to "*NEMA 4X TERMINAL JUNCTION BOX AS REQUIRED*".

DRAWING 95-M-1 – MECHANICAL SCHEDULES

1. Revise the Pipe Schedule by changing the specification section for the "Vent" service from 15030 to 15020.

DRAWING 99-E-1 ELECTRICAL DETAILS

1. Revise the Drawing per the attached Drawing.

END OF ADDENDUM

BID FORM

NOTE: Use Black Ink Or Typewriter For Completing This Bid Form

PROJECT IDENTIFICATION: North Chicago Lift Station Improvements

THIS BID IS SUBMITTED TO: City of South Milwaukee
City Clerk
2424 15th Avenue
South Milwaukee, WI 53172

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with Owner in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for the period of time specified in the Invitation to Bid after the day of Bid opening. Bidder will sign and submit the Agreement with the Bonds and other documents required by the Bidding Requirements within 15 days after the date of Owner's Notice of Award.
3. In submitting this Bid, Bidder represents, as more fully set forth in the Agreement, that:
 - (a) Bidder has examined copies of all the Bidding Documents and of the following Addenda, receipt of all which is hereby acknowledged:

Number

Date

(b) Bidder has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the Work.

(c) Bidder has studied carefully all reports and drawings of subsurface conditions and drawings of physical conditions which are identified in the Supplementary Conditions as provided in Article 5 of the General Conditions and accepts the determination set forth in Article 5 of the Supplementary Conditions of the extent of the technical data contained in such reports and drawings upon which Bidder is entitled to rely.

(d) Bidder has obtained and carefully studied all such examinations, investigations, explorations, tests and studies which pertain to the subsurface or physical conditions at the site or otherwise may affect the cost, progress, performance or furnishing of the Work as Bidder considers necessary for the performance or furnishing of the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of Article 5 of the General Conditions; and no additional examinations, investigations, explorations, tests, reports or similar information or data are or will be required by Bidder for such purposes.

(e) Bidder has reviewed and checked all information and data shown or indicated on the Contract Documents with respect to existing Underground Facilities at or contiguous to the site and assumes responsibility for the accurate location of said Underground Facilities. No additional examinations, investigations, explorations, tests, reports or similar information or data in respect of said Underground Facilities are or will be required by Bidder in order to perform and furnish the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of Article 5 of the General Conditions.

(f) Bidder has correlated the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the Contract Documents.

(g) Bidder has given Engineer written notice of all conflicts, errors or discrepancies that it has discovered in the Contract Documents and the written resolution thereof by Engineer is acceptable to Bidder.

(h) This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.

(i) Bidder has reviewed and understands the requirement for the use of American Iron and Steel (AIS) and certifies that all iron and steel products in the bid will be produced in the United States in a manner that complies with the AIS requirement.

(j) Bidder certifies that the Bid conforms to the requirements of Davis-Bacon labor standards and wage determinations.

4. Bidder will complete the Work for the following prices:

TOTAL BASE BID:

The Bidder agrees to complete the Total Base Bid work for each type and unit of work called for in the Contract Documents including the Sum of Extended Amounts and all allowances set forth in Section 01200, the major equipment provided by the "named" manufacturers listed in Schedule A - Major

6 13

If the Contract is to be awarded, it will be awarded to the lowest, qualified, responsive and responsible Bidder based on the TOTAL BASE BID whose evaluation by Owner indicates that the award will be in the best interests of the Project.

5. Bidder agrees that the Work will be substantially completed within 270 days from the date when the Contract Time commences to run as provided in Articles 4 and 15 of the General Conditions, and completed and ready for final payment in accordance with Article 15 of the General within 300 days from the date when the Contract Time commences to run.

Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work on time.

6. The following documents are attached to and made a condition of this Bid:

- (a) Required Bid Security in the form of _____
- (b) Schedule A - Major Equipment Schedule
- (c) Schedule B - Subcontractor Listing
- (d) Statement of the Bidder's qualification to do business in the state where the Project is located; or in the absence of such evidence, this bid constitutes Bidder's covenant to obtain such qualification prior to the award of the Contract.
- (e) DBE Program Performance and Utilization Forms (EPA Forms 6100-4)

7. Communications concerning this Bid shall be addressed to:

Name: _____

Company Name: _____

Address: _____

Telephone No.: _____

8. The terms used in this Bid, which are defined in the General Conditions of the Construction Contract included as part of the Contract Documents, have the meanings assigned to them in the General Conditions.

SUBMITTED ON _____, 20_____

I hereby certify that as Bidder I/We have examined and carefully prepared this Bid from the Bidding Documents and have checked the same in detail before submitting this Bid, and that all statements herein are made on behalf of:

An Individual

By (Individual's Signature) _____ (SEAL)

Individual's Name (Print) _____

Doing business as (Firm Name) _____

Business address: _____

Phone No.: _____

A Partnership

By (Firm Name) _____ (SEAL)

Signature of General Partner _____

Name of General Partner (Print) _____

Business Address: _____

Phone No.: _____

A Corporation

By (Corporation Name) _____

State of Incorporation _____

Signature of Authorized Representative _____

Name of Authorized Rep. (Print) _____

Title _____ (SEAL)

Attest (Signature) _____

Name of Attester (Print) _____

Business address: _____

Phone No.: _____

A Joint Venture

By (Representative's Signature) _____ (SEAL)

Representative's Name & Title (Print) _____

Doing business as (Firm Name) _____

Business address: _____

Phone No.: _____

By (Representative's Signature) _____ (SEAL)

Representative's Name & Title (Print) _____

Doing business as (Firm Name) _____

Business address: _____

Phone No.: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above).

Sworn and subscribed to before me this

_____ day of _____, 20 _____.

Notary or Other Officer Authorized To
Administer Oaths

My commission expires: _____

SCHEDULE A
MAJOR EQUIPMENT SCHEDULE

Specification Section	Equipment Description	Named Manufacturers and Suppliers Included in Base Bid (Circle the One Selected)	Dollar Amount Included in Base Bid to Furnish Equipment/material (Use Figures for the Selected One)	Alternate ("Or Equal") Manufacturers and Suppliers (Fill in names)	Dollar Amount To Be Deducted From Base Bid if Alternative ("Or Equal") Is Chosen (Use Figures)
11316	Submersible Pumps	A. Flygt, Xylem	A.	B.	B.
13320	General Instrumentation and Controls	A. Allen-ICS B. Altronex C. Energenecs	A. B. C.	D.	D.
16483	Adjustable Speed Controllers	A. Allen-Bradley B. Siemens C. Square-D D. ABB	A. B. C. D.	E.	E.
16621	Automatic Transfer Equipment	A. Russelectric, Inc. B. ASCO	A. B.	C.	C.

**SCHEDULE B
SUBCONTRACTOR LISTING**

The Bidder certifies that the following firms or businesses will be awarded subcontracts for the indicated portions of the Work in the event that the Bidder is awarded the Contract. In addition to the subcontractors listed, fill in the names of all other subcontractors and suppliers whose contract amounts equal or exceeds 10% of the Total Base Bid Amount. The Bidder agrees that, after the opening of Bids, no changes or substitutions in the listing will be allowed without the written approval of the Owner. Requests for such changes or substitutions shall be made in writing with appropriate documentation and reasons included. If space is inadequate, attach additional sheets with identical information.

Mechanical Subcontractor

Name of Firm:

Type of Work: _____

Address: _____ Street _____ City _____ State _____ (Zip) _____

\$ Amount _____

Electrical Subcontractor

Name of Firm: _____

Type of Work: _____

Address: _____ Street _____ City _____ State _____ (Zip) _____

\$ Amount _____

Heating, Ventilating, & Air Conditioning Subcontractor

Name of Firm:

Type of Work: _____

Address: _____

\$ Amount _____

Other

Name of Firm: _____

Type of Work: _____

Address: _____ Street _____ City _____ State _____ (Zip) _____

\$ Amount _____

Other

Name of Firm:

Type of Work: _____

Address: _____
 Street City State (Zip)

\$ Amount

Other

Name of Firm:

Type of Work:

Address: _____
 Street City State (Zip)

\$ Amount

Other

Name of Firm:

Type of Work:

Address: _____ Street _____ City _____ State _____ (Zip) _____

\$ Amount

This page left intentionally blank.

SECTION 15020

DETAILED PIPING SPECIFICATION – POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Polyvinyl chloride (PVC) pipe and fittings.

1.2 RELATED SECTION

- A. Section 15000 - Plant Piping - General: See Section for additional requirements.

1.3 SUBMITTALS

- A. As specified in Section 15000.

PART 2 PRODUCTS

2.1 PIPE

- A. Less than 4-inches: PVC, Schedule 80, Class 12454-B, (Type I, Grade 1), conforming to ASTM D 1784 and ASTM D 1785.
- B. 4-inch and larger: PVC, Schedule 40, Class 12454-B, (Type I, Grade 1), conforming to ASTM D 1785 and ASTM D 2466.

2.2 NIPPLES

- A. Same as pipe, except threaded nipples shall be Schedule 80.

2.3 JOINTS

- A. Socket-weld, except where connecting to unions, valves, and equipment with threaded connections that may require future disassembly.

2.4 FITTINGS

- A. Schedule 80, as specified under PIPE. Fittings shall conform to the requirements of ASTM D 2467 for socket type and ASTM D 2464 for threaded type.

2.5 FLANGES

- A. One-piece, molded hub type flat-faced flanges, 125-pound standard.

2.6 GASKETS

- A. Full-faced, 1/8-inch thick, fabricated from ethylene propylene rubber (EPR).
- B. When mating flange has raised face, use flat ring gasket and provide filler gasket between OD of raised face and flange OD to protect PVC flange from bolting moment.

2.7 BOLTING

- A. Bolts shall be fabricated in accordance with ANSI B18.2 and provided with washers of the same material as the bolts.
- B. With Flat Ring Gaskets: Carbon steel, ASTM A 307, Grade B square head bolts & ASTM A 563, Grade A heavy hex head nuts
- C. With Full Face Gaskets or in Corrosive Areas or Outside Locations: Type 316 stainless steel, ASTM A 193, Grade B8M hex head bolts and ASTM A 194, Grade 8M hex head nuts.

2.8 SOLVENT CEMENT

- A. All socket connections shall be joined with primer and PVC solvent cement conforming to ASTM D 2564. Manufacture and viscosity shall be as recommended by the pipe and fitting manufacturer to assure compatibility.

2.9 THREAD LUBRICANT

- A. Teflon tape.

PART 3 EXECUTION

3.1 GENERAL

- A. All rigid PVC pipe shall be cut, made up, and installed in accordance with the pipe manufacturer's recommendations. Offset shall be as recommended by the manufacturer for the maximum temperature variation between time of solvent welding and during operation.
- B. Only strap wrenches shall be used for tightening threaded plastic joints, and care shall be taken not to over-tighten these fittings. Pipe shall not be laid when the temperature is below 40° F, nor above 90° F when exposed to direct sunlight. Ends to be joined shall be shielded from direct sunlight before and during the laying operation.
- C. Provide adequate ventilation when working with pipe joint solvent cement.

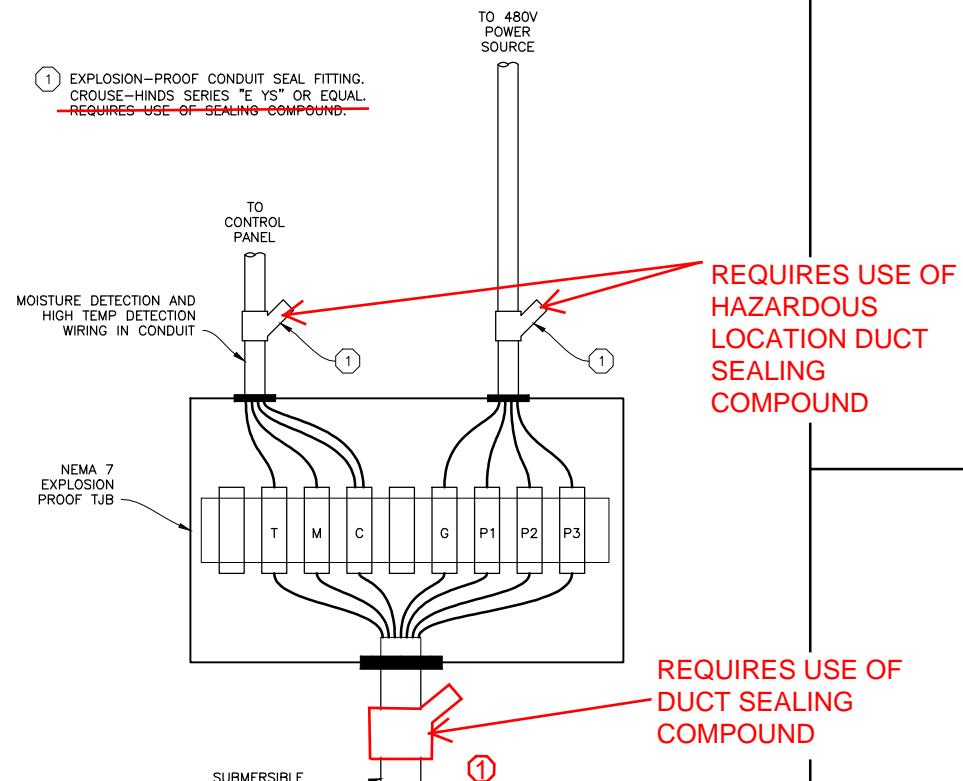
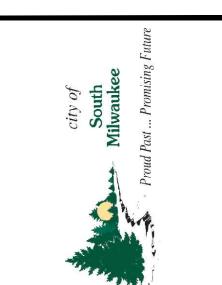
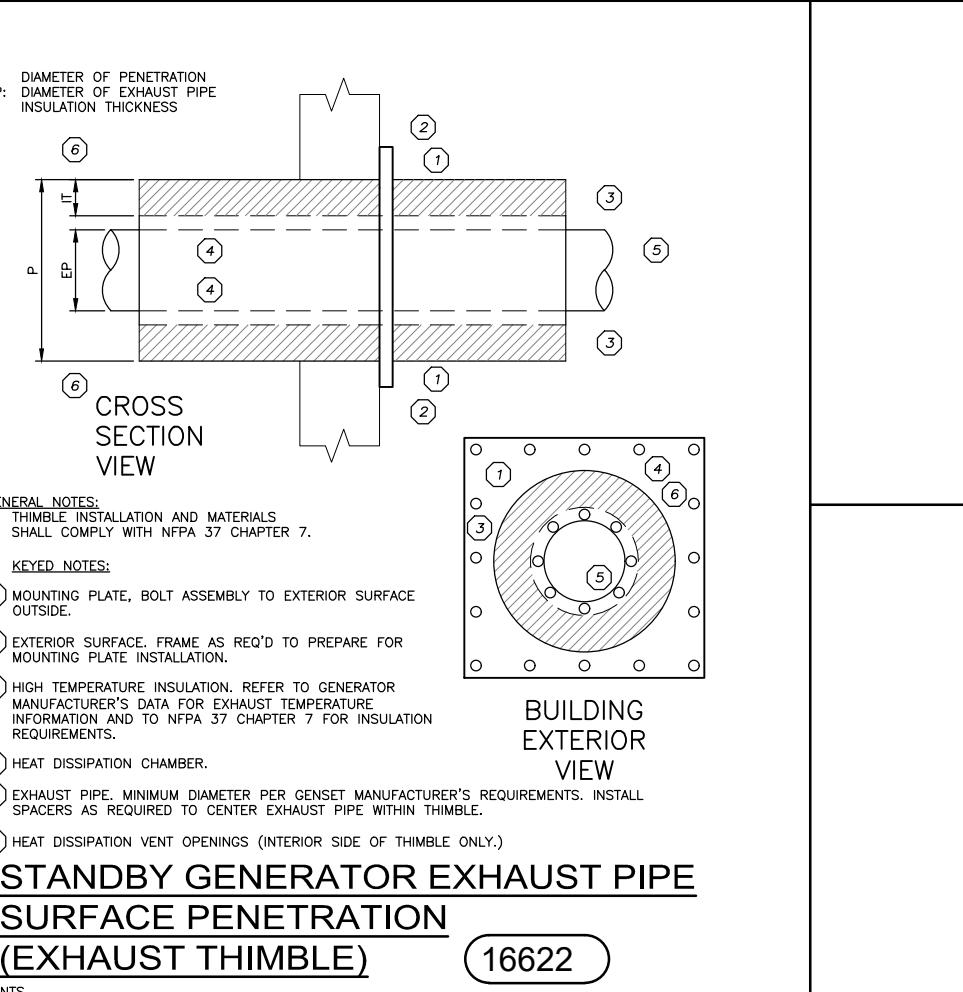
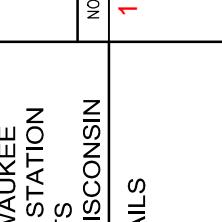
3.2 TESTING

- A. All lines shall be hydrostatically tested at the pressures listed in the Piping Schedule. Test procedures shall be as specified in Section 15000.

3.3 SUPPORTS AND HANGERS

- A. Supports and hangers shall be as specified in Section 15000, except spacing shall be in accordance with the pipe manufacturer's recommendations.

END OF SECTION

 <p>SUBMERSIBLE MOTOR CABLE SPLITTING DIAGRAM, HAZARDOUS LOCATION APPLICATION 16261</p> <p>NTS</p> <p>REQUIRES USE OF HAZARDOUS LOCATION DUCT SEALING COMPOUND</p> <p>REQUIRES USE OF DUCT SEALING COMPOUND</p>			 <p>Applied Technologies Engineers-Architects</p> <p>1 5/15/18 ADDENDUM NO. 1</p>
 <p>STANDBY GENERATOR EXHAUST PIPE SURFACE PENETRATION (EXHAUST THIMBLE) 16622</p> <p>NTS</p> <p>P: DIAMETER OF PENETRATION EP: DIAMETER OF EXHAUST PIPE IT: INSULATION THICKNESS</p> <p>CROSS SECTION VIEW</p> <p>GENERAL NOTES:</p> <ol style="list-style-type: none"> 1. THIMBLE INSTALLATION AND MATERIALS SHALL COMPLY WITH NFPA 37 CHAPTER 7. <p>KEYED NOTES:</p> <ol style="list-style-type: none"> 1 MOUNTING PLATE, BOLT ASSEMBLY TO EXTERIOR SURFACE OUTSIDE. 2 EXTERIOR SURFACE, FRAME AS REQ'D TO PREPARE FOR MOUNTING PLATE INSTALLATION. 3 HIGH TEMPERATURE INSULATION. REFER TO GENERATOR MANUFACTURER'S DATA FOR EXHAUST TEMPERATURE INFORMATION AND TO NFPA 37 CHAPTER 7 FOR INSULATION REQUIREMENTS. 4 HEAT DISSIPATION CHAMBER. 5 EXHAUST PIPE. MINIMUM DIAMETER PER GENSET MANUFACTURER'S REQUIREMENTS. INSTALL SPACERS AS REQUIRED TO CENTER EXHAUST PIPE WITHIN THIMBLE. 6 HEAT DISSIPATION VENT OPENINGS (INTERIOR SIDE OF THIMBLE ONLY). <p>BUILDING EXTERIOR VIEW</p> <p>VERIFY SCALES LENGTH OF BAR IS 1" ON ORIGINAL DRAWING 1:2 PLOT SCALE, ADJUST SCALE(S) ACCORDINGLY</p> <p>DESIGNED BY: N.A.O. DRAWN BY: J.T.H. CHECKED BY: F.X.T. APPROVED BY: W.A.E. PROJECT NO. 5795 DATE APRIL 2018 DRAWING NO. 99-E-1</p>			 <p>city of South Milwaukee Proud Past... Promising Future</p>