

ADDENDUM NUMBER 1
OCTOBER 2, 2017

Jackson County Utility Authority Project No. 20150619124

Pascagoula/Moss Point WWTP Escatawpa WWTP Repairs – Year 2

FROM:

BURK-KLEINPETER, INC.

ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
2113 Government Street, Building B, Suite B-1, Ocean Springs, Mississippi 39564
TEL (228) 875-1919 FAX (228) 875-1072

TO: PROSPECTIVE BIDDERS

This addendum forms a part of the Contract Documents and modifies Specification sections and Drawings as denoted below. Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification. Bidder is responsible to disseminate this addendum to all subcontractors and material suppliers concerned.

Sealed bids will be received by the JACKSON COUNTY UTILITY AUTHORITY at 1225 Jackson Avenue, Pascagoula, Mississippi 39567, until **1:00 pm, October 12, 2017** at which time they will be publicly opened and read aloud.

Jackson County Utility Authority will not accept any waste sludge produced by this project. Contractor will have to arrange for proper disposal of all sludge or work with the plant personnel to remove the sludge through the normal treatment process.

ATTACHMENTS

- A1. Copy of sign-in sheet and agenda from Pre-Bid Meeting, Thursday, September 28, 1:00 pm at Jackson County Utility Authority offices, 1225 Jackson Ave., Pascagoula, MS 39567.

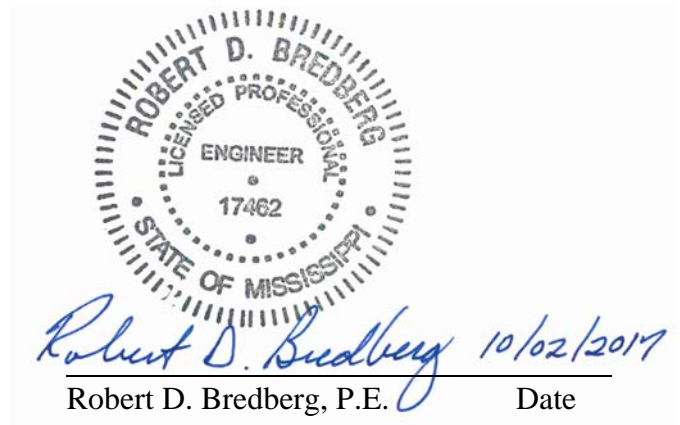
CHANGES TO SPECIFICATIONS

- B1. Delete Section 16110 – Raceway and replace with the attached Section 16110 - Raceway.
- B2. Delete Section 16135 – Electrical Boxes and Fittings and replace with the attached Section 16135 – Electrical Boxes and Fittings.

CHANGES TO CONTRACT DRAWINGS

- C1. Delete Sheet Number M.09 – “PMP WWTP New Aeration Equipment” from the Contractor Documents and replace with the attached Sheet Number M.09 – “PMP WWTP New Aeration Equipment” dated 10/02/2017.

END OF ADDENDUM NO. 1



JACKSON COUNTY UTILITY AUTHORITY

Meeting Title/Reference:

REHAB-PH2
PMP/ESC XPR Bid

SIGN IN SHEET

Date:

09/28/17

	Name	Organization	Phone	E-Mail Address
1	Bryson Agnew	ETEC	601-899-8525	bagnew@etec-sales.com
2	Derek Bullock	JCUA	228-860-6649	dbullock@jcuu-ms.us
3	Rob Bredberg	BKI	504-486-5901	rbredberg@bkiusa.com
4	Adam Jackson	BKI	229-875-1919	ajackson@bkiusa.com
5	MATT HAZEN	GOTTFRID	985-893-5773	Dgottfried@gottfried-us.com
6	Wilson Crockett	HEMPHILL	601-405-5759	WILSONCROCKETT@HEMPHILLCONSTRUCTION.COM
7	Terry Moody	United Rentals	251-751-2175	Tmoody@ur.com
8	Kevin Cree	The Creed Co.	251-460-2722	kpc@thecreedcompany.com
9	CHASE GLISSON	JCUA	228-219-4922	cglisson@jcuu-ms.us
10	Brandon Bryant	ITS	251 509 4721	Brandon.Bryant_94@outlook.com
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1. Introductions

My name is Robert Bredberg and I am an engineer with Burk-Kleinpeter, Inc. and I am the manager for this project.

BKI designed this project on behalf of Jackson County Utility Agency (JCUA) and will administer the contract as regards the engineering and technical issues for the project.

I will be the point of contact for all questions regarding this project. I can be reached at my office number 504-486-5901 by email. My e-mail address is rbredberg@bkiusa.com. Adam Jackson of our Ocean Springs office will conduct periodic site visits. Adam can be contacted at our Ocean Spring office at 228-875-1919

This meeting is to familiarize the contractors with the project and the general requirements for the bid. All specific questions regarding clarification of the plans and specifications must be submitted to the Engineer in writing no later than seven (7) days prior to the date of the bid opening in order to allow for sufficient time to respond if issuance of addenda is required.

2. Sign-In Sheet

I will now circulate the sign –in sheet for this meeting. Please include your company or organization name and address, your name, your email address and a contact phone number.

This is a mandatory pre-bid meeting. Only those bidders that attend this meeting and sign in will be considered responsive bidders for this project.

3. Project Overview

This project consists of repairs to the Pascagoula/Moss Point WWTP and the Escatawpa WWTP. Most of the work is mechanical in nature. The work is divided into a basic bid with two alternates. The basic bid will consist of cleaning Aerations Basin No. 1, replacing the air valves in the influent and effluent channels, replacement of the main slid gate into Aeration Basin No. 1, the removal and replacement of the four (4) aerators in the basin and sealing of concrete joints in the basin. Also included is the replacement of air valves in the influent and effluent channels and the 12” drain valve for Aeration Basin No. 1.

Alternate 1 deals with the replacement of the existing mechanical bar screen at the headworks of the Pascagoula/Moss Point WWTP including all the electrical work associated with changing the screen.

Alternate 2 includes the installation of DO monitors at all three Aerations Basins 1, 2 and 3 at the Pascagoula/Moss Point WWTP, the removal and replacement of the drive units on Clarifiers 1 and 2 at the Pascagoula/Moss Point WWTP, and the installation of a new influent pump with variable frequency drive including all electrical and instrumentation associated with the pump installation at the Escatawpa WWTP.

4. Review of Division 0 - Bid Documents

A. *Bid Opening – Thursday October 12, 2017 at 1:00 pm at the JCUA offices at 1225 Jackson Avenue, Pascagoula, MS 39567.*

B. *Bidders check list*

- 1) *Bid forms including all unit prices and bid sheets. (in case of mathematical discrepancies the unit price shall take precedence – so check your unit prices and extensions carefully prior to finalizing your bids)*
- 2) *This bid is divided by the basic bid plus two alternates. Please make sure that you fill out all of the form correctly as the total contract price will be either the base bid or the base bid plus alternates.*
- 3) *Make sure that the bid forms are signed by a company officer or other person authorized to make this bid on behalf of your company.*
- 4) *Include required bid bonds or security.*
- 5) *Bidders are advised to pay strict attention to all bond requirements.*
- 6) *Acknowledge receipt of all addenda. (All addenda will be published by email, so make sure that the email address provided on the sign-in sheet is valid.)*
- 7) *Clearly and legibly print contractor's name and license number on the outside of the sealed envelope containing your bid.*
- 8) *Deliver your sealed bid envelopes containing all of the necessary documents to the Jackson County Utility Authority, 1225 Jackson Avenue, Pascagoula, MS 39567 on or before 1:00 pm. central time on Thursday, October 12, 2017.*

C. *Bid form*

- 1) *Acknowledge receipt of all addenda*
- 2) *Enter the total base bid in words and numbers*
- 3) *Be sure to provide the name and address of the bidder on the form*
- 4) *Provide Mississippi Contractor's license number on bid form*
- 5) *Provide all necessary signatures and date the bid form*

D. *Bid Bond*

- 1) *Fill out the bid bond form as required and submit the form with your bid. Be sure to also include the actual bid bond with your bid*

E. *Affidavit*

- 1) *Other required forms will be submitted to JCUA within 72 hours of the bid.*

F. Contract

- 1) *Work to commence within 10 days of the Notice to Proceed.*
- 2) *Contract time is 270 calendar days and will begin on the day that the Notice to Proceed is issued.*
- 3) *Substantial completion will be 30 days prior to the day of final completion to allow for resolution of outstanding items in the contract.*
- 4) *Liquidated damages will be \$500 per calendar day in excess of the time of substantial completion.*
- 5) *Retainage will be as stated in 6.02.A of the Agreement located in the Project Manual.*

Contractor will be expected to carefully study and compare the contract documents for errors or discrepancies. Any errors or discrepancies will be reported to the Engineer in writing.

5. Prior to Starting Construction

- A. *Notice to Proceed will be delivered to Contractor within 30 days of contract execution.*
- B. *Contractor will provide Owner with all necessary insurance certificates, performance and payment bonds prior to contract execution*
- C. *Within ten (10) days of delivery of the executed Agreement by Owner to Contractor, Contractor shall submit to the Engineer for approval, an estimated progress schedule indicating the start and completion dates of the various stages of the work and a preliminary schedule of shop drawing submissions.*

6. Substitutions

- A. *The drawings and specifications have been prepared based on the criteria of certain manufacturer's products. The Contractor may elect to use a substitute for a product or material that is named in the drawings or specifications, the Contractor shall submit the pertinent information to the Engineer for approval.*

7. Site Conditions

- A. *It is the responsibility of the Contractors to review the existing site and conditions prior to bidding in order to familiarize themselves with the project.*
- B. *A site conditions survey will be required prior to beginning any work on the project.*

8. Project Schedule

- A. *A construction schedule will be required for review by the Engineer prior to the start of construction. This schedule will be updated monthly and submitted with each payment application.*

9. Progress Payments

- A. *Progress payments will be submitted by the Contractor each month to the Engineer for review. The Engineer will review the estimates and forward to the Owner.*
- B. *Progress payments will be in AIA format including an updated schedule of values and any supporting documentation including timesheets and invoices for stored materials.*

10. Meetings

- A. *A preconstruction meeting will be held prior to beginning construction.*
- B. *Progress meetings will be held at a minimum of once per month during construction, more often if required.*

11. Project Oversight

- A. *The Contractor will have a full time superintendent assigned to this project who will be on site at all times when work is being conducted.*
- B. *The Engineer will make periodic visits to the site to review the progress of the work. The Engineer will be available to meet on site to review and project issues that may arise.*

12. Questions About Plans and Specifications

- A. *No verbal questions either at this meeting or in phone calls will be answered by the Engineer.*
- B. *Submit questions about the plans and specifications to the Engineer in writing, a minimum of 7 days prior to the bid date (Thursday, October 5, 2017) E-mails are the preferred method of submission.*
- C. *Everyone should review the drawings and specifications prior to bidding. If there are any questions, please ask them prior to bid so that we will have a chance to make any modifications that may be required.*
- D. *Any addenda, if issued will be by email, so make sure that you have provided your correct email address on the sign in form.*

SECTION 16110

RACEWAY

PART 1 GENERAL

1.1 SUMMARY

- A. The work of this section consists of providing labor, material, tools, appliances and miscellaneous accessories with the raceways indicated by drawings and schedules.
- B. Types of raceways in this section include the following:
 - 1. Aluminum Rigid Conduit (ARC).
 - 2. Rigid Non-metallic conduit (PVC).
 - 3. Liquidtight Flexible Metal Conduit (LFMC).

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufactures: Subject to compliance with requirements.

2.2 METAL CONDUIT AND TUBING

- A. General: Provide metal conduit, tubing and fittings of types, grades, sizes and weights (wall thickness') for each service indicated. Where types and grades are not indicated, provide proper selection determined by installer to fulfill wiring requirements, and comply with applicable portions of NEC for raceways.
- B. Metal Conduit/Fittings:
 - 1. ARC: Comply with ANSI C80.5 and UL 6A.
 - 2. Aluminum Conduit Fittings: Cast copper free aluminum conforming with UL Standard 514A or 514B, with corrosion resistant coating.
 - a. Conduit bodies shall be Form 7 or Mark 9, covers shall be cast copper free aluminum. All hardware shall be 316 stainless steel.
 - b. Fittings shall be gasketed to ensure raintight connections. Gaskets shall be one-piece Neoprene.
 - c. Meyers hubs shall be copper free aluminum or 316 stainless steel with

insulated throat and grounding lug.

- d. Use locknuts, bushings, chase nipples, fittings for other miscellaneous connections.
- e. Conduit bodies, Meyers Hubs, fittings, and accessories shall be as manufactured by Crouse-Hinds, Appleton, or approved equivalent.

2.3 LIQUIDTIGHT FLEXIBLE METAL CONDUIT

- A. General: Provide liquid-tight flexible metal conduit and fittings of types, grades, sizes and weights (wall thickness') for each service indicated. Where types and grades are not indicated, provide proper selection determined by installer to fulfill wiring requirements, and comply with applicable portions of NEC for raceways.
- B. LFMC Conduit/Fittings:
 - 1. LFMC: Comply with UL 360.
 - 2. LFMC Fittings: Cast copper free aluminum or 316 stainless-steel conforming with UL Standard 514A, 514B.

2.4 NONMETALLIC CONDUIT AND DUCTS

- A. Non-Metallic Conduit: Rigid PVC Schedule NEMA Stds. Pub. No. TC-2.
- B. PVC Conduit Fittings: NEMA Stds. Pub No. TC-3.

2.4 CONDUIT, TUBING AND DUCT ACCESSORIES

- A. Provide conduit, tubing and duct accessories of types, sizes and materials, complying with manufacturer's published product information, which match conduit, tubing and ducts.

PART 3 EXECUTION

3.1 INSPECTION

- A. Examine areas and conditions under which raceways are to be installed, and substrate which will support raceways. Coordinate with other divisions to correct conditions detrimental to proper completion of the work.

3.2 INSTALLATION OF RACEWAY

- A. General: Install raceways as indicated; in accordance with manufacturers written installation instructions, and in compliance with NEC and NECA's "Standards of installation". Install units plumb and level, and maintain manufacturer's recommended clearances.
- B. Coordinate with other work including underground plumbing and structure necessary to interface installation of electrical raceways and components with other work.
- C. Mechanically fasten together metal conduits, enclosures, and raceways for conductors to form continuous electrical conductor. Connect to electrical boxes, fittings and cabinets to provide electrical continuity and firm mechanical assembly.
- D. Avoid use of dissimilar metals throughout system to eliminate possibility of electrolysis. Where dissimilar metals are in contact, coat surfaces with corrosion inhibiting compound before assembling.
- E. Install miscellaneous fittings such as reducers, chase nipples, 3-piece unions, Meyers hubs, and plugs that have been specifically designed and manufactured for their particular application. Install standard expansion fittings in raceways every 200' linear run or wherever structural expansion joints are crossed, whatever is less.
- F. Conduit terminations at boxes and panels constructed of sheet metal shall be made using insulated throat Meyers hubs with and grounding lugs. Ensure hubs make a weather tight seal to enclosure.
- G. Use roughing-in dimensions of electrically operated unit furnished by supplier. Set conduit and boxes for connection to units only after receiving review of dimensions and after checking location with other trades.

3.3 INSTALLATION OF CONDUITS

- A. Conduit run in slab, shall be PVC Schedule 40. Where PVC is turned out of the slab or duct bank, elbows shall be made with Schedule 80 nonmetallic rigid conduit, properly adapted to the PVC Schedule 40 conduit.
- C. Exposed interior and exterior conduits must be aluminum rigid conduit with threaded fittings. Use flexible cable whips for final connections to light fixtures and to any vibrating equipment. Conduits outdoors in wet and damp locations shall be aluminum rigid steel conduit with raintight threaded fittings.
- D. Methods of Installation:

1. Cut conduits straight, properly ream, and cut threads for heavy wall conduit deep and clean.
2. Field-bend conduit with benders designed for purpose so as not to distort nor vary internal diameter.
3. Size conduits to meet NEC, except no conduit smaller than 3/4 inch shall be embedded in concrete. Minimum conduit size shall be 3/4".
4. Fasten conduit terminations in sheet metal enclosures by 2 locknuts, and terminate with bushing. Install locknuts inside and outside enclosure.
5. Keep conduits a minimum distance of 6" from parallel runs of hot water pipes or other sources of heat.
7. Install conduits as not to damage or run through structural members.
8. Test every conduit run installed, with ball mandrel. Clear any conduit which rejects ball mandrel. Pay costs involved for restoration of conduit and surrounding surfaces to original conditions.
9. Provide nylon pull cord in every conduit installed.
10. Provide permanent plastic tags at each end of each embedded conduit run stating what the conduit is serving and where it is served from including the location.
11. Label all junction boxes (larger than 6" X 6"), pull boxes, wireways with engraved plastic nameplates.
12. Install underground conduits minimum of 24" below finished grade. Use long sweep elbows only.
13. Exposed Conduits:
 - a. Installed exposed conduits and extensions from concealed conduit systems neatly, parallel with, or at right angles to walls of buildings.
14. Conduit Fittings:
 - a. Construct locknuts for securing conduit to metal enclosure with sharp edge for digging into metal, and ridged outside circumference for proper fastening.
 - b. Bushings for terminating conduits smaller than 1-1/4" are to have flared

bottom and ribbed sides, with smooth upper edges to prevent injury to cable insulation.

- c. Install insulated type bushings for terminating conduits 1 1/4" and larger.

15. Additional PVC Conduit Requirements

- a. Make solvent cemented joints in accordance with recommendations of manufacturer.
 - b. Install PVC conduits in accordance with NEC and in compliance with local utility practices.
 - c. All PVC conduits entering manholes and handholes, communication and power, shall terminate in a bell end fitting installed flush with manhole/handhole wall or floor.
16. Provide complete shop drawings showing the routing of each conduit run either "in" or "under" each slab and duct bank. This shop drawing is to be completed by the contractor and reviewed by the architect prior to pouring of each slab.
17. LFMC shall be used for all connections requiring flexibility, vibrating equipment, or as directed on the drawings.

END OF SECTION 16110

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SECTION 16135

ELECTRICAL BOXES AND FITTINGS

PART 1 GENERAL

1.1 SUMMARY

- A. The work of this section consists of providing labor, material, tools, appliances and miscellaneous accessories associated with the electrical box and electrical fitting work indicated by drawings and schedules.
- B. Types of electrical boxes and fittings in this section include the following:
 - 1. Outlet boxes.
 - 2. Junction boxes.
 - 3. Pull boxes.
 - 4. Bushings.
 - 5. Locknuts.
 - 6. Knockout closures.

PART 2 PRODUCTS

2.1 OUTLET BOXES

- A. Provide copper free aluminum, of shapes, cubic inch capacities, and sizes, including box depths, for interior air conditioned spaces. Construct outlet boxes with mounting holes, and with cable and conduit-size knockout openings in bottom and sides. Provide boxes with threaded screw holes, with corrosion-resistant cover and grounding screws for fastening surface and device type box covers, and for equipment type grounding. Provide one-piece conduit cast device boxes for interior/exterior non-conditioned areas constructed of copper free aluminum with mounting lugs and raised hubs for threaded rigid conduit. Threaded conduit sizes and single / multi-gang boxes as required to be installed for all surface mounted devices mounted below 8'-0" A.F.F. Sizes and minimum depths shall be as follows:
 - 1. Surface: Provide one-piece, corrosion-resistant, cast copper free aluminum outlet wiring boxes, of types FS or FD, cast threaded raised conduit hubs, shapes and sizes, including depth of boxes to suit each respective location and installation; construct with threaded conduit ends and with threaded screw holes for securing box covers and wiring devices. Contractor to furnish matching cover plates as required.
 - 2. Special: Where above types are not suitable, furnish boxes constructed of type

316 stainless steel to suit the use taking into account space available, appearance, and Code requirements.

B. Outlet Box Accessories:

1. Provide outlet box accessories as required for each installation, including box supports mounting ears and brackets, fixture studs, cable clamps and metal straps for supporting outlet boxes, which are compatible with outlet boxes being used to fulfill installation requirements of individual wiring situations. Choice of accessories is Installer's code-compliance option.
2. Cover plates shall be stainless steel or cast copper free aluminum and secured to the back box by four screws. Cover plates secured to outlet only are not acceptable.
3. Manufacturer: Subject to compliance with requirements, provide interior outlet boxes and accessories of one of the following:
 - a. Appleton Electric Co.
 - b. Crouse-Hinds
 - c. Thomas & Betts

C. Weatherproof Outlet Boxes:

1. Provide corrosion-resistant cast copper free aluminum weatherproof outlet wiring boxes, of types FS or FD, shapes and sizes, cast threaded raised conduit hubs, including depth of boxes to suit each respective location and installation; construct with threaded conduit ends and with threaded screw holes for securing box covers and wiring devices.
2. Cover plates shall be stainless steel or cast copper free aluminum and secured to the back box by four screws. Cover plates secured to outlet only are not acceptable.
2. Manufacturer: Subject to compliance with requirements, provide weatherproof outlet boxes of one of the following:
 - a. Appleton Electric Co.
 - b. Crouse-Hinds Co.
 - c. Thomas & Betts

2.2 JUNCTION AND PULL BOXES

- A. Provide type 316 stainless steel code-gage sheet steel or cast copper free aluminum junction and pull boxes, with screw-on covers, of types, shapes and sizes, to suit

each respective location and installation, with welded seams and equipped with type 316 stainless steel nuts, bolts, screws and washers.

B. Type for Various Locations:

1. 100 Cubic Inches in volume or Smaller: Standard cast type FS or FD outlet boxes.
2. 150 Cubic Inches in volume or Larger: code gage type 316 stainless steel with sides formed and welded, screw covers unless shown to have hinged doors. Hinged doors with locking device same as furnished on panelboards. Knockouts factory stamped or formed in field with a cutting tool to provide a clean symmetrically-cut hole. UL listed NEMA 4X, field or shop fabricated boxes are not acceptable.
3. Exterior or Wet Areas: Weatherproof type 316 stainless steel construction with proper gaskets, corrosion resistant fasteners, painted in corrosion resistant primer and baked on enamel finish. UL listed NEMA 4X, field or shop fabricated boxes are not acceptable.
4. Manufacturer: Subject to compliance with requirements, provide junction and pull boxes of one of the following:
 - a. Appleton Electric Co.
 - b. O/Z Gedney Co.
 - b. Crouse-Hinds Co.
 - c. Thomas & Betts

2.3 BUSHINGS, KNOCKOUT CLOSURES AND LOCKNUTS

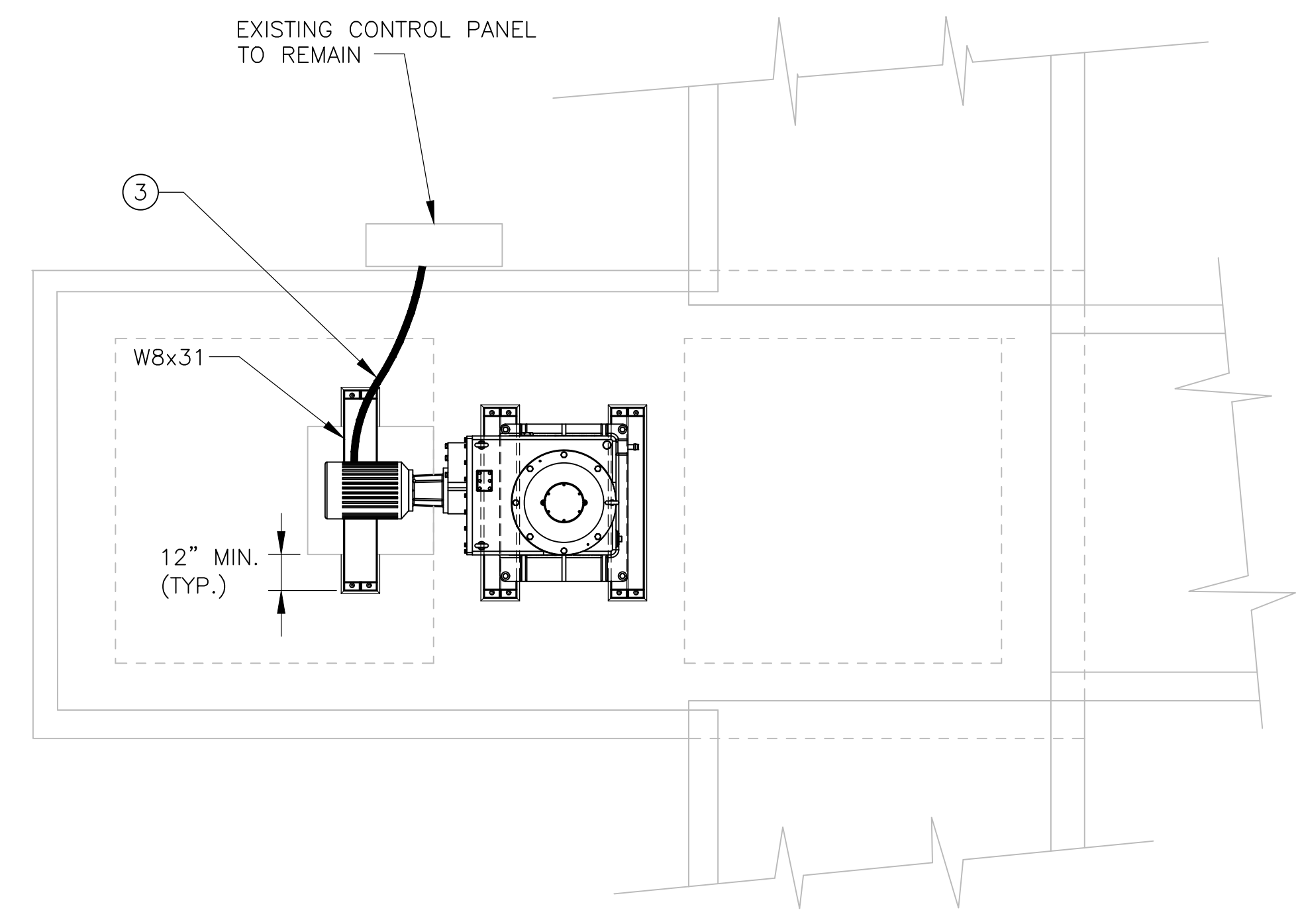
- A. Provide type 316 stainless steel punched-steel knockout closures, conduit locknuts and plastic conduit bushings, and offset connectors, of types and sizes to suit respective uses and installation.
- B. Manufacturer: Subject to compliance with requirements, provide bushings, knockout closures, locknuts and connectors of one of the following:
 1. Appleton Electric Co.
 2. O-Z/Gedney Co.
 3. RACO, Inc.
 4. Steel City/Midland-Ross Corp.
 5. Thomas and Betts Co., Inc.

PART 3 EXECUTION

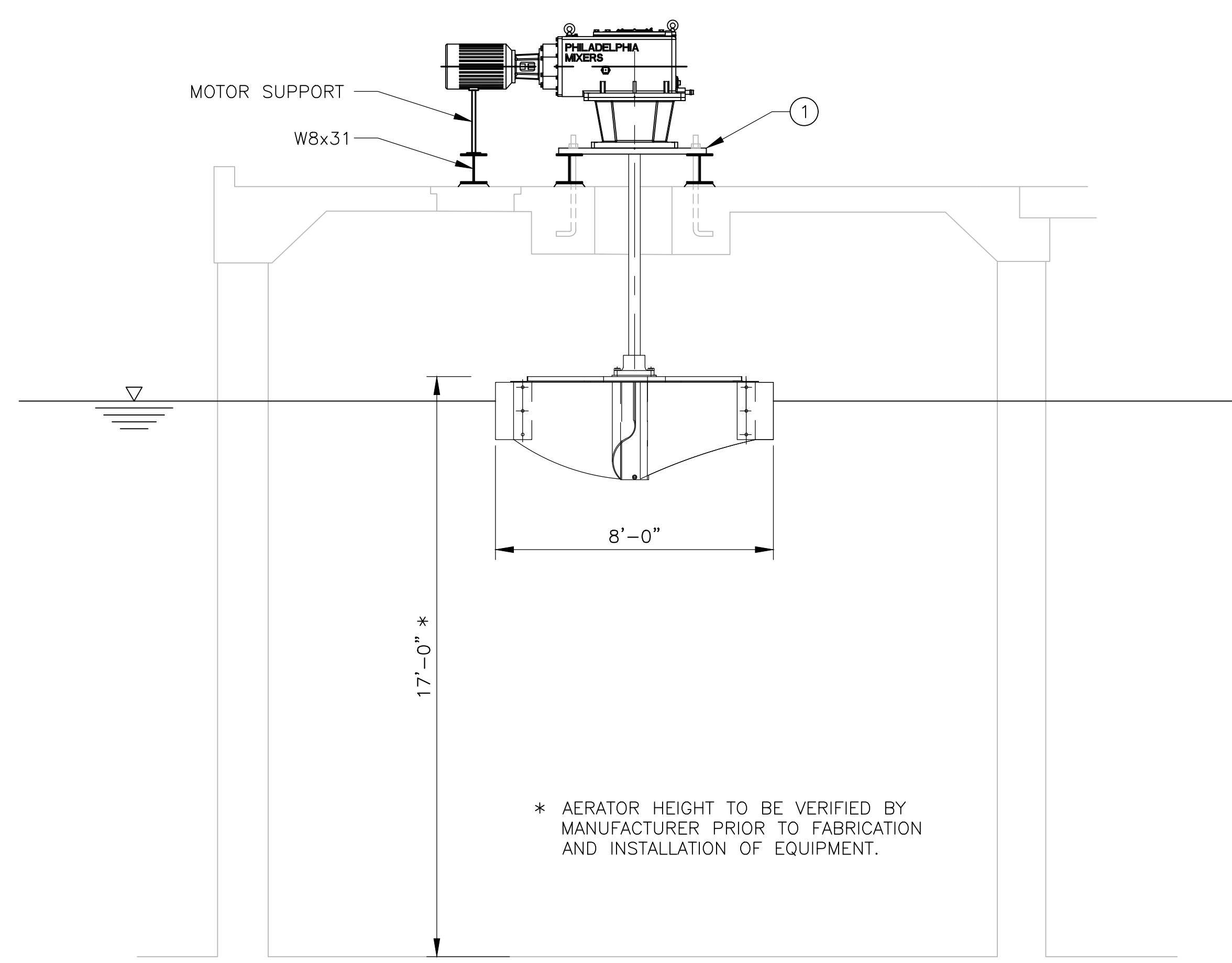
3.1 INSTALLATION OF ELECTRICAL BOXES AND FITTINGS

- A. General: Install electrical boxes and fittings where indicated, complying with manufacturer's written instructions, applicable requirements of NEC and NECA's "Standard of Installation", and in compliance with recognized industry practices to ensure that products fulfill requirements.
- B. Coordinate installation of electrical boxes and fittings with wire/cable and raceway installation work.
- C. Provide weathertight outlet boxes for interior and exterior locations exposed to weather or moisture.
- D. Provide knockout closures to cap unused knockout holes where blanks have been removed.
- E. Install boxes and conduit bodies in those locations which ensure ready accessibility of electrical wiring.
- F. Avoid installing boxes back-to-back in walls. Provide not less than 6" separation.
- G. Position recessed boxes accurately to allow for surface finish thickness.
- H. Round boxes are not acceptable where conduit must enter box through side of box, which would result in difficult and insecure connections when fastened with locknut or bushing on rounded surface.
- I. Conduit entries to boxes shall be threaded raised hubs on cast boxes. Conduit entry to sheet metal boxes shall utilize weather-tight Meyers hubs as specified in section 16110. All conduit entries must be weather and rain-tight.
- J. Fasten boxes rigidly to substrates or structural surfaces to which attached, or solidly embed electrical boxes in concrete or masonry.
- K. Mounting heights are specified on Drawings and in Section 16010.

END OF SECTION 16135

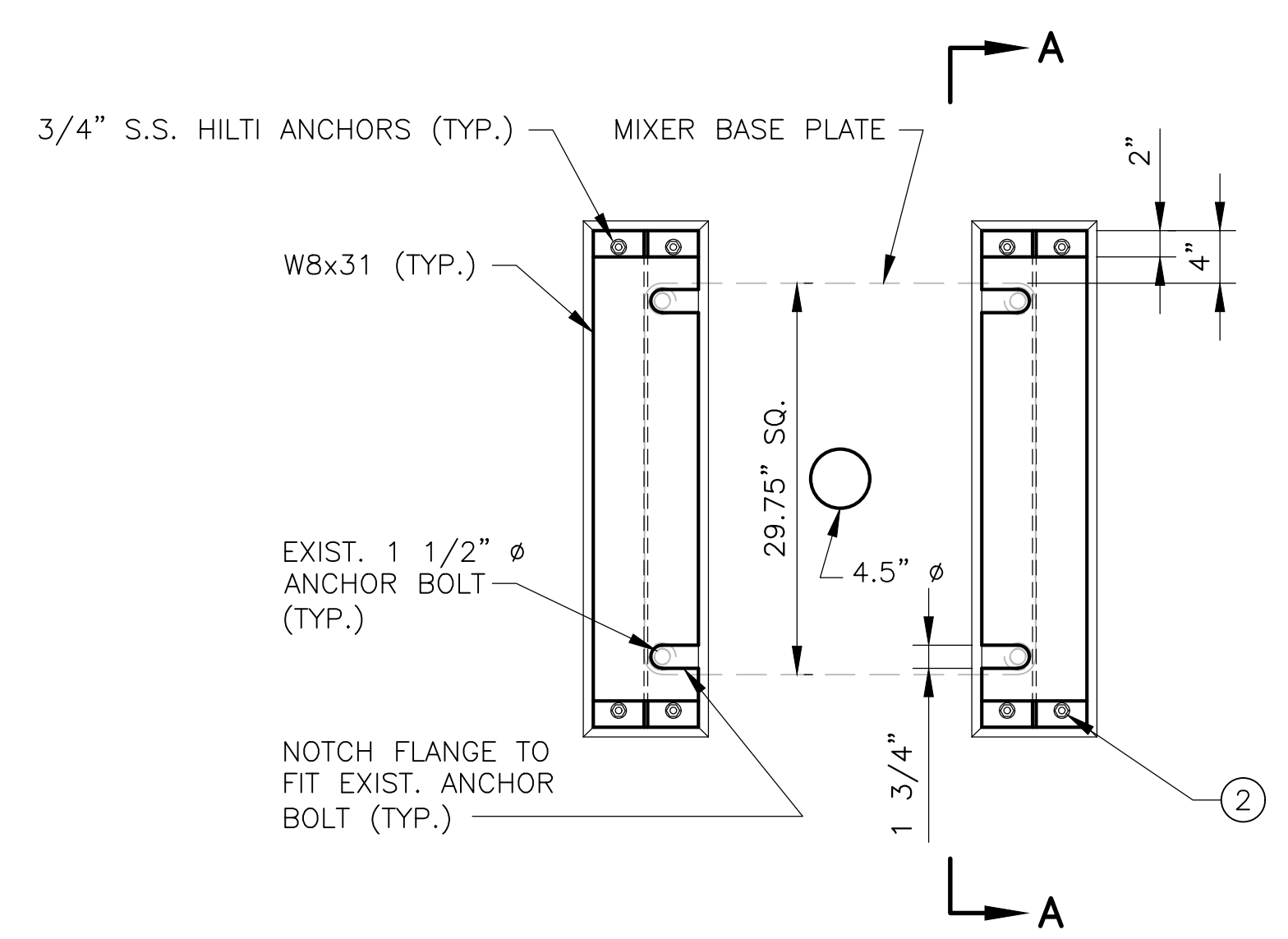


NEW AERATION EQUIPMENT - PLAN
 N.T.S.

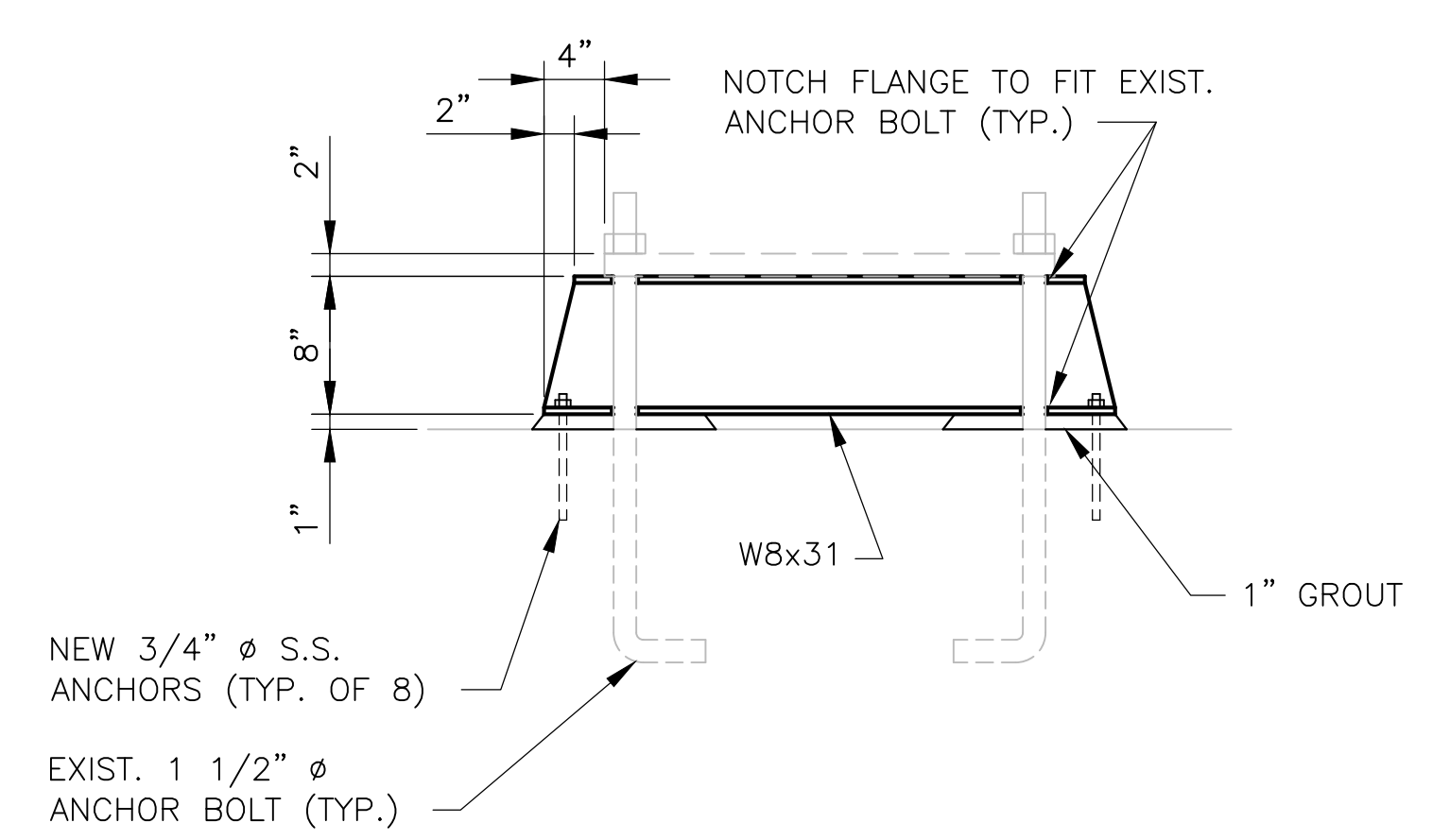


NEW AERATION EQUIPMENT - SECTION
 N.T.S.

- NOTES :**
- USE EXISTING SUPPORT BOLTS WITH ADDED W8x31 SECTIONS AS SHOWN ON THIS SHEET TO MOUNT AERATION EQUIPMENT.
 - INSTALL (8) 3/4" STAINLESS STEEL HILTI ANCHORS AT A MINIMUM DEPTH AS SHOWN TO ANCHOR W8x31 SUPPORTS FOR PUMP BASE.
 - CONNECT NEW AERATION EQUIPMENT MOTOR TO EXISTING CONTROL PANEL AS PER ELECTRICAL DRAWINGS.



NEW MIXER SUPPORT - PLAN
 N.T.S.



SECTION A-A
 N.T.S.

BASE BID

ROBERT D. BREDEGG
 ENGINEER
 17402
 10/02/2017
 Robert D. Bredegg

XREF:

DATE:

FILE NAME: