



**EL PASO WATER UTILITIES
PUBLIC SERVICE BOARD**

ADDENDUM NO. 2

FOR

**JOHN T. HICKERSON WRF
HEADWORKS BARSCREEN REPLACEMENT**

BID NO. 40-23

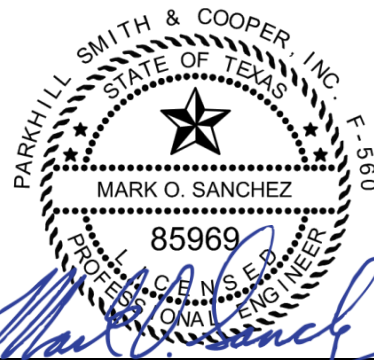
May 16, 2023

In accordance with the Instruction to Bidders of the Contract Documents, the following revision to the Plans and/or Specifications shall become part of the Contract Documents and the Bidders shall acknowledge receipt thereof on their Bid Proposal.

EL PASO WATER UTILITIES

PARKHILL

Robert L. Davidson
Contract Construction Administrator*
May 16, 2023



Mark O. Sanchez, P.E.
Engineer of Record, Parkhill
May 16, 2023

*The EPWater representative's signature certifies that this Document shall become part of the Contract Documents for the referenced project. The signature is not a representation that the content of this document is technically correct.

Receipt of this Addendum must be acknowledged in writing to El Paso Water Utilities as required by the bid documents.

VOLUME 1 – CONTRACT DOCUMENTS

BIDDING REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT

AD-2.01. SECTION 00300 – BID FORM

- A. REMOVE Section in its entirety and REPLACE with revised Section 00300 attached to this Addendum. Revised quantity for Bid Item No. 13.

AD-2.02. SECTION 00500 – STANDARD FORM OF AGREEMENT

- A. REMOVE Section in its entirety and REPLACE with revised Section 00500 attached to this Addendum. Revised Contract time.

AD-2.03. SECTION 00800 – SUPPLEMENTARY CONDITIONS

- A. Page 00800-16, DELETE SC-6.04.E in its entirety, and replace with the following:
 - “E. Contractor shall purchase and maintain flood insurance upon the Work in the amount of the full replacement cost of the Work in Bid Item No. 15.”

TECHNICAL SPECIFICATIONS

AD-2.04. SECTION 01 10 00 – SUMMARY

- A. ADD the following paragraph after Item 1.2.D
 - “E. Special Considerations: Between September 30, 2024, and March 30, 2025, Contractor will not be allowed to isolate individual barscreen channels for work within the channels since the plant will not have capability to bypass flows from the headworks. During this time both channels shall be fully operable with screening equipment working. The reason for this limitation is that the existing 30-inch bypass line at headworks (See Drawing Sheet C102) is being relocated. The relocation project is expected to take place during this time. The bypass line is capable of bypassing 3-4 MGD of influent flow. Maximum daily influent flow to the headworks before bypassing is between 15 MGD and 17 MGD. Each screen channel can sustain 17.5 MGD before wastewater starts going through the emergency overflow channel. The emergency overflow channel is located between the two screen channels. The use of the existing bypass line allows for the reduction of influent flow while work is being conducted on the individual screen channels.”

AD-2.05. SECTION 01 10 00 – SUMMARY

A. REMOVE Item 1.3.C.2 and replace with the following:

- “2. Other times and days may be necessary as dictated by work and shall be requested by Contractor to Owner for approval at least 14 days in advance.”

AD-2.06. SECTION 01 30 00 – ADMINISTRATIVE REQUIRMENTS

A. REMOVE Item A.1 and replace with the following:

- “1. Use Owner’s Procore Website to send and receive Project Information.”

AD-2.07. SECTION 01 40 00 – QUALITY REQUIRMENTS

A. REMOVE Item 1.5 in its entirety and replace with the following:

- “1.5 TESTING AND INSPECTION SERVICES – See Section 01 43 26 Testing Laboratory Services”

AD-2.08. SECTION 01 50 00 – TEMPORARY FACILITIES AND CONTROLS

A. REMOVE Item 1.9.A in its entirety and replace with the following:

- “A. Office facilities are required to be provided by the Contractor for the use of the Engineer for this project. Description:
1. Portable mobile “Office” trailer with steps and landings at entrance doors with minimum 200 square feet
 2. Shall have electricity, lighting, refrigerated air conditioning, and heater.
 3. Shall have a desk, chair, and filing cabinet.
 4. Shall have a 72-inch by 30-inch foldable table with six foldable metal chairs.
 5. Location to be coordinated with plant superintendent.
 6. Lighting: Exterior lighting at entrance doors
 7. Provide an appropriate type of fire extinguisher.
 8. Maintenance and Cleaning: Weekly janitorial services for cleaning and maintenance of the office shall be provided.
 9. Office to be set up within 15 days after the date fixed in Notice to Proceed.
 10. Removal: At work completion remove utility services, debris, and restore area to original condition.”

AD-2.09. ADD in its entirety SECTION 26 05 05 - SELECTIVE DEMOLITION FOR ELECTRICAL attached to this Addendum.

AD-2.10. SECTION 26 24 19 MOTOR CONTROLLERS

A. ADD the following paragraph after Item. 1.1.A.2

“3. Motor Control Centers for this project are existing GE 8000 Line Motor Control Centers, Catalog No: 957X0592L06 and 957X0592L07. This section specifies replacement buckets. Bucket replacements shall include new mounting back-panels and doors.”

AD-2.11. SECTION 40 77 00 – CONTROL SYSTEM UPGRADES

A. REMOVE Section in its entirety and REPLACE with revised Section 40 77 00 attached to this Addendum.

AD-2.12. SECTION 43 23 13.27 – OVERHUNG CLOSE-COUPLED HORIZONTAL CENTRIFUGAL PUMPS

A. ADD the following paragraph after Item 1.3

“1.4 WARRANTY

A. All equipment shall be covered against manufacturing defects in materials and workmanship during normal use and service for a period of one (1) year from date of startup. Items specifically not covered by the warranty are consumable wear parts as identified in the O&M manual.”

AD-2.13. SECTION 46 21 73 – SCREENINGS WASHING AND COMPACTING EQUIPMENT

A. REMOVE Item 1.2.A in its entirety and replace with the following:

“A. The screenings wash press equipment specified in this section shall be the SAVECO North America, Inc. FSM Screw Wash Press Model SPW300-1300.”

AD-2.14. SECTION 46 23 23 – VORTEX GRIT REMOVAL EQUIPMENT

A. REMOVE Item 2.3.A in its entirety and replace with the following:

“A. GENERAL: The manufacturer shall furnish all the necessary appurtenant items to produce a fully functioning normally operating grit removal unit.

The floor of the grit separation chamber shall be as shown on the drawings with actual configuration, dimensions, and ancillary components to be field verified by the contractor during the submittal stage.”

VOLUME 2 – DRAWINGS

AD-2.15. SHEET G002 – LOCATION MAP, GENERAL NOTES AND SHEET INDEX

- A. ADD Sheet M106 between Sheets M105-P and M107 and designate as Sheet No. 28.1 in Sheet Index.

AD-2.16. SHEET C101 – HEADWORKS IMPROVEMENTS SCOPE OF WORK

- A. REMOVE Sheet C101 in its entirety and REPLACE with revised Sheet C101 attached to this Addendum. The limits of protective coating have been increased from what was shown previously.

AD-2.17. SHEET C102 – HEADWORKS IMPROVEMENTS SEQUENCE OF CONSTRUCTION

- A. Boxed Note Referring to “PROJECT SHALL BE SUBSTANTIALLY COMPLETE BY SEPTEMBER 30, 2024.....” delete and replace with following,

“30-INCH BYPASS LINE WILL NOT BE AVAILABLE BETWEEN SEPTEMBER 30, 2024, AND MARCH 30, 2025. DURING THIS PERIOD ISOLATION OF HEADWORKS CHANNELS TO SINGLE CHANNEL FOR INSTALLATION OF WORK WILL NOT BE ALLOWED. IF CONTRACTOR IS UNABLE TO COMPLETE WORK WITHIN THE CHANNELS BY SEPTEMBER 30, 2024, CONTRACTOR SHALL SCHEDULE COMPLETION OF WORK AFTER MARCH 30, 2025. DURING THIS PERIOD BOTH CHANNELS SHALL BE FULLY OPERABLE WITH SCREENING EQUIPMENT WORKING.”

AD-2.18. SHEET M103 – MEZZANINE PARTIAL PLAN EQUIPMENT REPLACEMENT AND REMOVAL

- A. REMOVE Sheet M103 in its entirety and REPLACE with revised Sheet M103 attached to this Addendum. The section reference number has been revised from what was shown previously. The size, material type, and function of existing grit pipe not being replaced is identified.

AD-2.19. SHEET M105 – GRIT PUMPING ROOM PUMP AND PIPE REPLACEMENT

- A. ADD Note “I” to the GENERAL NOTES with the following,

“I. Contractor shall provide dismantling joint for suction piping connection at each pump.”

AD-2.20. SHEET M106 – GRIT PUMP ROOM NEW SUMP PUMP PIPING

- A. DELETE Keynote 3 and replace with the following,

“3. NEW PUMPS SHALL BE FLYGT MODEL NS 3085 MT-463, 176 GPM @ 20.3 FEET TDH, 2.7 HP MOTOR, 1800 RPM, 3 PHASE, 460 VOLT; OR APPROVED EQUAL.”

- AD-2.21. SHEET M107 – GRIT PUMP ROOM EQUIPMENT REPLACEMENT SECTIONS
- A. ADD Note “C” to the GENERAL NOTES with the following,
“C. Contractor shall provide dismantling joint for suction piping connection at each pump.”
- AD-2.22. SHEET M108 – HEADWORKS DISTRIBUTION AREA PARTIAL PLAN CHANNEL RELINING
- A. REMOVE Sheet M108 in its entirety and REPLACE it with revised Sheet M108, attached to this Addendum. The limits of protective coating have been increased from what was shown previously.
- AD-2.23. SHEET M111 – BARSCREENS SECTION EQUIPMENT REMOVAL
- A. DELETE Keynote 6 and replace with the following,
“6. EXISTING PLASTIC LINING TO BE REMOVED AND SAUEREISON SEWERGARD 210X, MINIMUM 120 MILS PROTECTIVE COATING TO BE APPLIED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, THE DRAWINGS AND SPECIFICATIONS.”
- AD-2.24. SHEET M113 – MEZZANINE EQUIPMENT REPLACEMENT AND REMOVAL
- A. REMOVE Sheet M113 in its entirety and REPLACE it with revised Sheet M113, attached to this Addendum. Keyed note added to identify size, material type, and function of existing grit pipe not being replaced.
- AD-2.25. SHEET M116 – GRIT CHANNEL RELINING SECTION
- A. REMOVE Sheet M116 in its entirety and REPLACE with revised Sheet M116, attached to this Addendum. The limits of protective coating have been increased from what was shown previously.
- AD-2.26. SHEET E004 – ELECTRICAL DEMOLITION PLAN
- A. REMOVE Sheet E004 in its entirety and REPLACE with revised Sheet E004 attached to this Addendum. Changes reflect demolition of Grit Room sump pumps.
- AD-2.27. SHEET E005 - ELECTRICAL MCC-10A ONE-LINE DIAGRAM DEMO-SHEET
- A. REMOVE Sheet E005 in its entirety and REPLACE with revised Sheet E005 attached to this Addendum. Changes reflect demolition of Grit Room sump pump.

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- AD-2.28. SHEET E006 - ELECTRICAL MCC-10B ONE-LINE DIAGRAM DEMO-SHEET
- A. REMOVE Sheet E006 in its entirety and REPLACE with revised Sheet E006 attached to this Addendum. Changes reflect demolition of Grit Room sump pump.
- AD-2.29. SHEET E007 - ELECTRICAL FIRST FLOOR POWER PLAN
- A. REMOVE Sheet E007 in its entirety and REPLACE with revised Sheet E007 attached to this Addendum. Changes reflect the new location of DLC panels.
- AD-2.30. SHEET E009 - ELECTRICAL GRIT PUMPING ROOM POWER PLAN
- A. REMOVE Sheet E009 in its entirety and REPLACE with revised Sheet E009 attached to this Addendum. Changes reflect the installation of Grit Room sump pumps.
- AD-2.31. SHEET E013 - ELECTRICAL MCC-10A ONE-LINE DIAGRAM
- A. REMOVE Sheet E013 in its entirety and REPLACE with revised Sheet E013 attached to this Addendum. Changes reflect installation of Grit Room sump pump.
- AD-2.32. SHEET E014 - ELECTRICAL MCC-10B ONE-LINE DIAGRAM
- A. REMOVE Sheet E014 in its entirety and REPLACE with revised Sheet E014 attached to this Addendum. Changes reflect installation of Grit Room sump pump.

SUBMITTED QUESTIONS AND ANSWERS

The following are answers to questions that were received prior to the cutoff date for questions.

- Q-2.01. Specification 46 21 14 – 2.07.A.13 requires a programmable relay, which does not have Ethernet communications. Specification 40 77 00 – 1.3.C.5 states that the Plant PLC shall monitor the screens, wash presses, conveyor, etc., on the existing plant network utilizing Ethernet communications. Please confirm the Screen/Wash Press control panels and Conveyor control panel will not require Ethernet communications, and the Plant PLC will monitor equipment status via hardwired signals/dry contacts.
- A-02.01. The plant PLC specific to the headworks area will accommodate the hardwired connections for monitoring/control/alarming of the screen/wash press and conveyor control panels. The Level Lodor units are equipped with a PLC and optioned to include Ethernet communications. The project piping and instrumentation diagrams provide more information and detail as to the type/count connected between the new equipment and existing plant automation system.

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Q-2.02. Please confirm there will be Qty (2) Screen/Wash control panels, and (1) Conveyor control panel as shown on drawings: E007, E013, and E014. The Screens and Wash presses will not have separate individual control panels as shown on P101-P and P102-P.

A-02.02. A quantity of 2 Screen/Wash press control panels, 1 conveyor control panel and 2 Level Lodor panels are required. Drawings P101-P and P102-P depict a general system layout agnostic of brand of equipment.

Q-2.03. Drawing E007 shows the Screen differential level controllers installed adjacent to the screen channels. Please confirm the differential level controller will be NEMA 4X per 46 21 14-2.07.E.1 and installed in a non-hazardous area. The level transducers will be installed in the hazardous area according to 46 21 14-2.07.E.2

A-2.03 The differential level controller(s) location will be moved to the electrical room.

Q-2.04. Sheet M106, Plan E – Grit Pumping Room Partial plan indicates the existing sump pumps are to be removed and replaced. Sheet E004, Plan C – Grit Pump Demo Plan does not show demolition of the sump pumps. Sheet E009 does not show electrical work being required for the sump pumps. Is electrical work required?

A-2.04 Electrical work will be required. See Addendum Drawings for electrical demo and replacement work related to replacement of Grit Pumping Room sump pumps.

Q-2.05. Sheet E004, Plan D – Electrical Room Demolition Plan indicates ECPs (Equipment Control Panel), ECP 01111, ECP 01121, ECP 01131 & ECP 01101 to be removed. Sheet E005, MCC-10A One line Diagram Demo-Sheet indicates ECP01111 to be removed. Sheet E006, MCC-10B One-line Diagram Demo-Sheet indicates ECP01111 to also be removed. Are panels ECP 01121, ECP 01131 & ECP 01101 to be removed since there is no information on the drawings as to what they serve?

A-2.05 ECP 01121 and ECP 01131 are the Pneumatic Ejector Panels and will be removed, and not replaced.
ECP 01101 is the Filter Screen Control Panel #1, which will be removed and replaced as shown on sheet E007.
ECP 01111 is mislabeled on Demo-Sheet E005 and will be corrected on this addendum.
Equipment Control Panel Tags for new equipment are shown on sheet E007.

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Q-2.06. Sheet E013, MCC-10A One-line Diagram, shows ECP 01101 and ECP 01113 to be added to control new pump motors and controls. Where are these control panels to be installed? Are these equipment control panels to include the starters for control of the associated motors? What is the composition of these equipment control panels as it relates to indicator lights and control stations?

A-2.06 Location of ECP 01101 and ECP 01113 are shown on Drawing E007. These ECPs include the starters for control of associated motors.

The composition of these ECPs are detailed in the Specifications Sections 46 21 14 FILTER SCREEN, 46 21 73 WASH PRESS, and 41 52 13 LEVEL LODOR.

Q-2.07. Sheet E014, MCC-10B One-line Diagram, shows ECP 01111 and ECP 01112 to be added to the control new pump motors and controls. Where are these equipment control panels to be installed? Are these equipment control panels to include the starters for the control of the associated motors? What is the composition of these equipment control panels as it relates to indicator lights and control stations?

A-2.07 Location of ECP 01111 and ECP 01112 are shown on Drawing E007. These ECPs include the starters for control of associated motors.

The composition of these ECPs is detailed in the Specifications Sections 46 21 14 FILTER SCREEN, 46 21 73 WASH PRESS , and 41 52 13 LEVEL LODOR

Q-2.08. Will sewer by-pass pumping be required for the project?

A-2.08 Sewer bypass pumping is not required for the project.

Q-2.09. Will de-watering be required for the project?

A-2.09 Groundwater levels are shown in the Geotechnical Investigation included in the specifications at the end of Section 31 20 00.10. Based on this information and the elevations for proposed improvements ground water dewatering is not anticipated.

Q-2.10. Are sluice gates that control flow to individual screen channels working?

A-2.10 Yes, the sluice gates are working.

ATTACHMENTS:

Attachment No. 2.01 – SECTION 00300 -BID FORM, 11 Pages

Attachment No. 2.02 – SECTION 00500 – STANDARD FORM OF AGREEMENT, 9 Pages

Attachment No. 2.03 – SECTION 26 05 05 – SELECTIVE DEMOLITION FOR ELECTRICAL,
3 Pages

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- Attachment No. 2.04 – SECTION 40 77 00 – CONTROL SYSTEM UPGRADES, 3 Pages
- Attachment No. 2.05 – Sheet C101 – HEADWORKS IMPROVEMENTS SCOPE OF WORK
- Attachment No. 2.06 – Sheet M103 – MEZZANINE PARTIAL PLAN EQUIPMENT REPLACEMENT AND REMOVAL
- Attachment No. 2.07 – Sheet M108 – HEADWORKS DISTRIBUTION AREA PARTIAL PLAN CHANNEL LINING
- Attachment No. 2.08 – Sheet M113 – MEZZANINE EQUIPMENT REPLACEMENT AND REMOVAL
- Attachment No. 2.09 – Sheet M116 – GRIT CHANNEL RELINING SECTION
- Attachment No. 2.10 – Sheet E004 – ELECTRICAL DEMOLITION PLAN
- Attachment No. 2.11 – Sheet E005 – ELECTRICAL MCC – 10A ONE-LINE DIAGRAM DEMO-SHEET
- Attachment No. 2.12 – Sheet E006 – ELECTRICAL MCC-10B ONE-LINE DIAGRAM DEMO-SHEET
- Attachment No. 2.13 – Sheet E007- ELECTRICAL FIRST FLOOR POWER PLAN
- Attachment No. 2.14 – Sheet E009 – ELECTRICAL GRIT PUMPING ROOM POWER PLAN
- Attachment No. 2.15 – Sheet E013 – ELECTRICAL MCC 10A ONE-LINE DIAGRAM
- Attachment No. 2.16 – Sheet E014 – ELECTRICAL MCC -10B ONE-LINE DIAGRAM

Addendum No. 2, pages 1 through 10, shall become part of the Contract and all provisions of the Contract shall apply thereto. The time provided for completion of the Contract has been changed. Bidders shall acknowledge receipt of all Addenda by number in the space provided in the Proposal.

*****END OF ADDENDUM NO. 2*****

- 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 Paragraph 5.03 of the General Conditions, and accepts the determination set forth in Paragraph SC-5.03 of the Supplementary Conditions of the extent of the technical data contained in such reports and drawings.
 - D. BIDDER has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests and studies (in addition to or to supplement those referred to in "C." above) 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 Paragraph 5.03 of the General Conditions.
 - 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.
 - 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. All prices quotes by the bidder shall be entirely in United States Currency (U.S. Dollars).
4. Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

***** HIGH IMPORTANCE *****

TEXAS ETHICS COMMISSION
REQUIREMENT

*****IN THE EVENT YOU RECEIVE AN AWARD OF THIS CONTRACT*****

Reference: FORM 1295 (revised 12/22/17) "Certificate of Interested Parties"

A business entity must file Form 1295 electronically with the Texas Ethics Commission using the Commission's online filing application, which can be found at:
https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

SEE INSTRUCTIONS: Form 1295 and Sample Form 1295 (Section 00302)

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>UOM</u>	<u>Brief Description Of Item</u>	<u>Unit Bid Price</u>	<u>Extended Amount (Qty. x Unit Price)</u>
1.	1	LS	Contractor Mobilization/Demobilization - Not to Exceed 5% of Bid	\$ _____	\$ _____
2.	1	LS	Project Site Pre-Construction Video	\$ _____	\$ _____
3.	2	EA	Furnish 6 mm Perf Plate screens, including control panel, sensors, transmitters, switches, manufacturer startup and training, O&Ms	\$ _____	\$ _____
4.	2	EA	Furnish 105 cf/hr Wash Press, including control panel, sensors, transmitters, switches, manufacturer startup and training, O&Ms	\$ _____	\$ _____
5.	1	EA	Furnish 210 cf/hr Horizontal Shaftless Conveyor, including control panel, sensors, transmitters, switches, manufacturer startup and training, O&Ms	\$ _____	\$ _____

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>UOM</u>	<u>Brief Description Of Item</u>	<u>Unit Bid Price</u>	<u>Extended Amount (Qty. x Unit Price)</u>
6.	2	EA	Furnish 20 cy Level Lodor, including control panel, sensors, transmitters, switches, manufacturers startup and training, O&Ms	\$ _____	\$ _____
7.	2	EA	Furnish grit classifier with integral cyclone, including controls, manufacturers startup and training, O&Ms	\$ _____	\$ _____
8.	3	EA	Furnish grit pumps, including controls, manufacturers startup and training, O&Ms	\$ _____	\$ _____
9.	2	EA	Furnish motor, drive, rotating shaft and paddle assembly, including associated controls for replacement of same on existing grit removal units	\$ _____	\$ _____
10.	1	LS	Furnish grit piping, valves, and appurtenances for replacement of grit piping associated with Items 7 & 8	\$ _____	\$ _____
11.	1	LS	Furnish and Perform Barscreen Channel Demo and Modifications for Installation of Two (2) Perf Plate Screens	\$ _____	\$ _____
12.	1	LS	Install equipment, associated piping, including removal of existing as required for installation, and provide testing and startup for Items 3-10	\$ _____	\$ _____
13.	6,817	SF	Furnish and Install 120 mil DFT corrosion protective coating on existing concrete surfaces as shown on the drawings, including surface preparation and concrete repairs, complete in place	\$ _____	\$ _____

<u>Item No.</u>	<u>Estimated Quantity</u>	<u>UOM</u>	<u>Brief Description Of Item</u>	<u>Unit Bid Price</u>	<u>Extended Amount (Qty. x Unit Price)</u>
14.	1	LS	Furnish and Install Electrical, Instrumentation and Controls (not provided by equipment manufacturers); Install Instrumentation and Controls Provided by Equipment Manufacturers, complete for the project	\$ _____	\$ _____
15.	1	LS	Furnish and Install Site Work including reinforced concrete retaining wall, reinforced concrete ramp, reinforced concrete box culvert, site piping, trench safety, grading and drainage improvements, plant HMAC pavement, reinforced concrete support slabs for Level Lodor's, and barsceen supply water line outside the headworks building	\$ _____	\$ _____

TOTAL BID PRICE (ITEMS 1 THROUGH 15) \$ _____

Quantities are not guaranteed.

If multiple awards are contemplated under a single bid document, an additional breakdown of bid amounts, subcontractors, and suppliers is required. It will also be necessary to adjust the MWBE Certification and Participation Summary Form accordingly.

In accordance with Section 151.311 of the Texas Tax Code (V.A.T.C.S.), regarding taxes on materials and services, and requiring a separated contract, the following is the breakdown of cost for materials and cost for labor for this bid:

MATERIALS TO BE INCORPORATED IN PROJECT NOT SUBJECT TO SALES TAX: \$ _____

LABOR TO BE INCORPORATED IN PROJECT NOT SUBJECT TO SALES TAX: \$ _____

RENTAL EQUIPMENT AND OTHER TAXABLE ITEMS: \$ _____

OTHER (I.E. BONDS, INSURANCE, CAPITAL EQUIPMENT, ETC.) \$ _____

***TOTAL CONTRACT:
*(TOTAL MUST EQUAL TOTAL BID PRICE)**

\$ _____

5. BIDDER agrees that the Work will be Substantially completed within 750 Calendar Days from the date when the Contract Time commences to run as provided in Paragraph 2.03 of the General Conditions; and as revised in Supplementary Conditions, and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions, and as revised in the Supplementary Conditions, within 780 calendar days. Final completion includes CONTRACTOR'S resolution of all punch list items and CONTRACTOR'S submission of required close-out documentation. Any failure of the CONTRACTOR to complete the project within the contract time will be considered a material breach of this contract.

BIDDER accepts the provisions of the Supplementary Conditions and the Agreement as to liquidated damages in the event of failure to complete the Work on time.

9. BIDDER MUST ANSWER THE FOLLOWING QUESTIONS: (Refer to INSTRUCTIONS TO BIDDERS for definitions.)

9. Is the bidder that is making and submitting this bid a "RESIDENT BIDDER" or a "NONRESIDENT BIDDER"?

Answer: _____

- B. If the bidder is a "NONRESIDENT BIDDER", does the state in which the Nonresident Bidder's principal place of business is located have a law requiring a Nonresident Bidder of that state to bid a certain amount of percentage under the bid or a Resident Bidder of that state in order for the nonresident bidder of that state to be awarded a contract on his or her bid in such state?

Answer: _____

- C. If the answer to the question in Paragraph 6B above is "yes", then what amount or percentage must a Texas Resident Bidder bid under the bid of a Resident Bidder of that state in order to be awarded a contract on such bid in said state?

Answer: _____

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

- A. Required Bid Security in the form of _____

9. A tabulation of all Subcontractors who will provide labor at the site of the work or render services to the CONTRACTOR in or about the construction of the work and Suppliers and other persons and organizations is required to be identified in this Bid. Complete the following table, designating each as Small Locally-Owned Business Enterprise (SLBE), Minority Business Enterprise (MBE), Women-Owned Business Enterprise (WBE), or Other (not either SLBE, WBE MBE) is required. Only one category may be checked.

Include the work item and value of work to be provided by the Prime Contractor, as well as its category.

Tabulation of Subcontractors and Suppliers

SUBCONTRACTOR/SUPPLIER	WORK ITEM	SUBCONTRACT OR PURCHASE ORDER VALUE (If value is unknown, please list <i>Pending</i>)	S	M	W	S	S	O
			L	B	B	B	B	T
			B	E	E	E	R	H
			E				A	E
			Please check one box					
Prime Contractor:								

9. Will the Contractor meet the Small Locally Owned Business Enterprise, Minority Business Enterprise and Women-Owned Business Enterprise goals as required by these contract documents and the funding agencies?

YES _____ NO _____

If "YES", include above each of the firms to be used, their business status as a SLBE, MBE, or WBE, the proposed dollar value and type of work to be performed.

If "NO", documentation supporting good faith effort is required.

8. Communications concerning this Bid shall be addressed to the following named individual, address, telephone number, facsimile number, and e-mail address:

Name: _____

Address: _____

Phone: _____ Fax: _____ E-mail: _____

9. 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__.

If BIDDER is:

An Individual

By _____ (SEAL)
(Name of Bidder)

(Title) (Signature)

doing business as _____

Business Address: _____

Phone No.: _____

A Partnership

By _____ (SEAL)
(Firm Name)

(Signature – general partner)

Business Address: _____

Phone No.: _____

A Corporation (Revised 10/12/92, 1/7/93, 4/13, 3/1/22)

By _____
(Corporation Name)

(State of Incorporation and State of Principal Place of Business)

By _____
(Name of Person Authorized to Sign)

(Title) (Signature)

(Corporate Seal)

Attest _____
(Secretary)

Business Address: _____

Phone No.: _____

Federal Tax Identification Number: _____

When proposing as a Corporation, Bidder swears and affirms by signing this Bid that the proposing Corporation is currently in existence, is currently authorized to do business in the State of Texas (or State of incorporation) and that no franchise tax reports or payments are delinquent as of the date of this Bid Proposal. The Bidder will provide a Certificate of Account Status with the signed Contract Documents. See Section 00510, for the sample form which is to be obtained by the successful Contractor from the Texas (or other state) Comptroller of Public Accounts and submitted as part of the final, executed Contract Documents.

CERTIFICATION OF INSURANCE AVAILABILITY

Date _____

I, _____ (Name of Insurance Agent), certify that I have reviewed the insurance requirements listed in Article 5 of the Supplementary Conditions of the specifications for the John T. Hickerson WRF Headworks Barscreen Replacement (Name of Project), Bid No. 40-23, and further certify that _____ (Name of Bidder) has or can obtain the insurance coverage required by this Project so that a certificate of insurance and a copy(s) for the actual insurance policies can be submitted to the Owner within ten (10) days of the Notice of Award.

Signed _____

Title _____

Insurance Agency _____

Address _____

Telephone _____

**MINORITY CERTIFICATION
AND
PARTICIPATION SUMMARY**
(EPWU CIP FUNDED PROJECTS)

BID NUMBER: 40-23

BID TITLE: John T. Hickerson WRF Headworks Barscreen Replacement

I certify that the Small Locally Owned Businesses (SLBE), Minority (MBE) and Women's Business Enterprises (WBE) participating in this project are qualified in accordance with the Minority requirements included in the above listed Bid Documents and that we will ensure all consultants, contractors, suppliers, and subcontractors will comply with the Minority guidelines. Definitions of each category are found in the 00100, Instructions to Bidders Section. Attached are:

Solicitation Documents: _____

Proposed Subcontracts for the below listed firms: _____

SLBE, MBE, or WBE FIRM NAME	ADDRESS	PHONE	CONTRACT AMOUNT	SLBE	MBE	WBE

The attached documents outline the Good Faith Effort taken in complying with the Minority Guidelines.

CONTRACTOR

SIGNATURE OF AUTHORIZED REPRESENTATIVE

DATE

PRINTED NAME OF AUTHORIZED REPRESENTATIVE

SECTION 00500

**STANDARD FORM OF AGREEMENT BETWEEN OWNER
AND CONTRACTOR ON THE BASIS OF A STIPULATED PRICE**

THIS AGREEMENT is dated as of the _____ day of _____ in the year 20__ by and between El Paso Water Utilities-Public Service Board, a component unit of the City of El Paso, a Texas municipal corporation (hereinafter called OWNER), and _____ (hereinafter called CONTRACTOR). OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1. WORK

CONTRACTOR shall complete all Work as specified or indicated in the Contract Documents. The work is generally described as follows:

JOHN T. HICKERSON WRF HEADWORKS BARSCREEN REPLACEMENT

The work under this contract shall be for furnishing all labor, materials, transportation and services for the construction and installation of the following work:

The project entails the removal and replacement of two (2) existing traveling rake barscreens, screenings and grit handling equipment, mechanical components for two (2) existing vortex grit removal units, associated piping, electrical, and controls; concrete demo and structural modifications necessary for installation of new screening equipment, furnish and installation of two (2)-6 mm perf plate screens, two (2) wash presses, one (1) shaftless horizontal conveyor, two (2) 20 CY Level Lodors, two (2) grit classifiers with integral cyclones, three (3) grit pumps, concrete retaining wall, electrical, controls and instrumentation for new equipment, corrosion protection coating of existing concrete structures, site pavement, grading and drainage improvements, site piping, testing and startup of new equipment, and coordination with plant. Improvements to be completed while plant remains in service.

ARTICLE 2. ENGINEER

The Project has been designed by Parkhill who is hereinafter called ENGINEER and who is to act as OWNER's representative, assume all duties and responsibilities and have the rights and authority assigned to ENGINEER in the Contract Documents in connection with completion of the Work in accordance with the Contract Documents.

ARTICLE 3. CONTRACT TIME (Revised 9/2/92, 10/9/98, 6/3/99, 4/13, 10/16/20)

- 3.1 The Work will be Substantially completed within 750 Calendar Days from the date when the Contract Time commences to run as provided in Paragraph 4.01 of the General Conditions; and as revised in Supplementary Conditions, and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions, and as revised in the Supplementary Conditions, within 780 calendar days. Final completion includes CONTRACTOR'S resolution of all punch list items and CONTRACTOR'S submission of required close-out documentation. Any failure of the CONTRACTOR to complete the project within the contract time will be considered a material breach of this contract.
- 3.2 Liquidated Damages. OWNER and CONTRACTOR recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss and public inconvenience if the Work is not completed and the submittals are not submitted within the times specified in Paragraph 3.1 above, plus any extensions thereof allowed in accordance with Article 11 of the General Conditions. They also recognize the delays, expense and difficulties involved in proving in a legal proceeding the actual loss suffered by OWNER if the Work is not completed on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay OWNER the sum of Two Thousand Dollars (\$2,000) for each Calendar Day that expires after the time specified in the Agreement for Substantial Completion until the Work is substantially complete. After Substantial Completion, if CONTRACTOR shall neglect, refuse or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by OWNER, CONTRACTOR shall pay OWNER One Thousand One Hundred Sixty Dollars (\$1,160) for each Calendar Day that expires after the time specified in the Agreement for completion and readiness for final payment.

ARTICLE 4. CONTRACT PRICE (Revised 10/12/92, 6/7/93; 2/13/97)

- 4.1 OWNER shall pay CONTRACTOR for completion of the Work in accordance with the Contract Documents in current funds, per the attached CONTRACTOR's Bid in accordance with the below listed separate charges:

MATERIALS TO BE INCORPORATED IN PROJECT NOT SUBJECT TO SALES TAX:	\$ _____
LABOR TO BE INCORPORATED IN PROJECT NOT SUBJECT TO SALES TAX:	\$ _____
RENTAL EQUIPMENT AND OTHER TAXABLE ITEMS:	\$ _____
OTHER (I.E. BONDS, INSURANCE, CAPITAL EQUIPMENT, ETC.)	\$ _____
*TOTAL CONTRACT:	\$ _____
* (TOTAL MUST EQUAL TOTAL BID PRICE)	

ARTICLE 5. PAYMENT PROCEDURES *(Revised 5/14/96, 7/13, 10/16/20, 3/4/22)*

CONTRACTOR shall submit Applications for Payment in accordance with Article 15 of the General Conditions and Article 15 of the Supplementary Conditions. Applications for Payment will be processed by ENGINEER as provided in the General Conditions.

- 5.1 Progress Payments. OWNER shall make progress payments on account of the Contract Price on the basis of CONTRACTOR's Applications for Payment as recommended by ENGINEER for Work which is completed in accordance with the terms and conditions of the Contract Documents. All progress payments will be on the basis of the progress of the Work measured by the schedule of values established in Paragraph 2.03 and referenced in Paragraph 2.05 of the General Conditions (and in the case of Unit Price Work based on the number of units completed and accepted) or, in the event there is no schedule of values, as provided in the General Requirements. Each invoice, regardless of contract type, shall contain a summary indicating the budget, the current invoiced amount, less a withholding of a 5% retainage amount, and the billed to date figure.

Prior to Substantial Completion, progress payments will be made in an amount equal to the percentages indicated below, but, in each case, less the aggregate of payments previously made and less such amounts as ENGINEER shall recommend, or OWNER may withhold, in accordance with Paragraph 15.06 of the General Conditions.

Ninety-five percent of Work completed (ninety percent for contracts under \$400,000.00), including 95 percent of materials and equipment not incorporated in the Work (but delivered, suitably stored and accompanied by documentation satisfactory to OWNER as provided in Paragraph 15.01 of the General Conditions).

- 5.2 Final Payment. Upon final completion and acceptance of the Work in accordance with Article 15 of the General and Supplementary Conditions, OWNER shall pay the remainder of the Contract Price as recommended by ENGINEER as provided in said Article.

ARTICLE 6. CONTRACTOR'S REPRESENTATIONS *(Revised 10/12/92, 7/13, 11/9/17, 10/16/20, 3/4/22)*

In order to induce OWNER to enter into this Agreement, CONTRACTOR makes the following representations:

- 6.1 CONTRACTOR 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.
- 6.2 CONTRACTOR has studied carefully all reports of explorations and tests of subsurface conditions and drawings of physical conditions which are identified in the Supplementary Conditions as provided in Paragraph 5.03 of the General Conditions, and accepts the determination set forth in Paragraph SC-5.03 of the Supplementary Conditions of the extent of the technical data contained in such reports and drawings.
- 6.3 CONTRACTOR has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests, reports and studies (in addition to or to supplement those referred to in Paragraph 6.2 above) which pertain to the subsurface or physical conditions at or contiguous to the site or otherwise which may affect the cost, progress, performance or furnishing of the Work necessary for the performance or furnishing

of the Work at the Contract Price, specifically within the provisions of Paragraph 5.03 of the General Conditions. CONTRACTOR understands that the correctness of such information is not guaranteed by the OWNER or the ENGINEER and CONTRACTOR understand(s) that the conditions encountered in performing the work may be different from the approximations shown.

- 6.4 CONTRACTOR has reviewed all information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the site and assumes responsibility for the location of said Underground Facilities as determined by his or her own field investigations. CONTRACTOR understands that the correctness of such information is not guaranteed by the OWNER or the ENGINEER and CONTRACTOR understand that the conditions encountered in performing the work may be different from the approximations shown.
- 6.5 CONTRACTOR has correlated the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the Contract Documents.
- 6.6 CONTRACTOR has given ENGINEER written notice of all conflicts, errors, or discrepancies that he has discovered in the Contract Documents and the written resolution thereof by ENGINEER is acceptable to CONTRACTOR.
- 6.7 CONTRACTOR affirms it is not a foreign-owned company that is owned or controlled by citizens of or directly controlled by the government of China, Iran, North Korea, Russia or a designated country pursuant to Chapter 2274 of the Texas Government Code. Additionally, CONTRACTOR affirms it is not a company that is headquartered in China, Iran, North Korea, Russia, or a designated country pursuant to Chapter 2274 of the Texas Government Code.
- 6.8 CONTRACTOR affirms it does not boycott Israel and will not boycott Israel during the term of the Agreement.
- 6.9 In accordance with Chapter 2274 of the Texas Government Code, CONTRACTOR affirms that it does not boycott energy companies and will not boycott energy companies during the term of the Agreement.
- 6.10 In accordance with Section 2274.002 of the Texas Government Code, CONTRACTOR affirms that it does not have a practice, policy, guidance or directive that discriminates against a firearm entity or firearm trade association and will not discriminate during the term of the Agreement against a firearm entity or firearm trade association.

ARTICLE 7. CONTRACT DOCUMENTS *(Revised 11/16/94, 1/12/11, 7/13, 11/2/16, 10/16/20, 3/4/22)*

The Contract Documents which comprise the entire agreement between OWNER and CONTRACTOR concerning the Work consist of the following:

- 7.1 CONTRACTOR's Bid (Section 00300)
- 7.2 Agreement (Section 00500)
- 7.3 Performance and Payment Bonds, and Certificate of Insurance, and insurance policies identified as Sections 00610, 00630 and 00650.
- 7.4 Notice of Award.

- 7.5 General Conditions (Section 00700)
- 7.6 Supplementary Conditions (Section 00800)
- 7.7 Supplement for Special-Funded Project (Section 00805) – NOT APPLICABLE
- 7.8 General Wage Rates (Section 00840)
- 7.9 Specifications bearing the title Project Manual for the Construction of John T. Hickerson WRF Headworks Barscreen Replacement, consisting of division numbers 1 through 46.
- 7.10 Drawings consisting of a cover sheet and sheets listed in the Index to Drawings, each sheet bearing the following general title:

CITY OF EL PASO, TEXAS
EL PASO WATER UTILITIES - PUBLIC SERVICE BOARD

John T. Hickerson WRF Headworks Barscreen Replacement

(Drawings not attached to this Agreement.)

- 7.11 Addenda numbers _____ to _____, inclusive (not attached to this Agreement.)
- 7.12 Documentation submitted by CONTRACTOR prior to Notice of Award (Pages _____ to _____, inclusive).
- 7.13 Contractor Health and Safety Plan
- 7.14 The Instructions to Bidders, Information Available to Bidders, Bid Form and Bid Security, as well as any supplements to the Bid Form.
- 7.15 The following which may be delivered or issued after the Effective Date of the Agreement and are not attached hereto: All Written Amendments and other documents amending, modifying, or supplementing the Contract Documents pursuant to Paragraphs 11.01 of the General Conditions.
- 7.16 The documents listed in Paragraphs 7.2 et. seq. above are attached to this Agreement (except as expressly noted otherwise above).

There are no Contract Documents other than those listed above in this Article 7. The Contract Documents may only be amended, modified or supplemented as provided in Paragraphs 11.01 of the General Conditions.

ARTICLE 8. MISCELLANEOUS

- 8.1 Terms used in this Agreement which are defined in Article 1 of the General Conditions will have the meanings indicated in the General Conditions.
- 8.2 No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and specifically, but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be

limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

- 8.3 OWNER and CONTRACTOR each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect of all covenants, agreements and obligations contained in the Contract Documents.

ARTICLE 9. OTHER PROVISIONS *(Revised 3/4/22)*

- 9.1 It is agreed that should any dispute arise under this Contract which culminates in litigation, venue of that suit shall be in a court of competent jurisdiction sitting in El Paso County, Texas. The court shall apply the laws of the State of Texas in construing and interpreting the terms of this Contract and the Contract Documents.
- 9.2 In case any one or more of the provisions contained in this Agreement shall, for any reason, be held to be invalid, illegal, or unenforceable in any respect, that invalidity, illegality, unenforceability shall not affect any other provisions and this Agreement shall be construed as if such invalid, illegal, or unenforceable provisions had never been included, and the Agreement provisions shall be read and interpreted so as to harmonize with the Agreement itself.
- 9.3 The captions or headings of paragraphs in this Contract are for convenience only and shall not be considered in constraining the provisions hereof if any question of intent should arise.
- 9.4 For NADBank-funded projects, Contractor agrees to indemnify and hold harmless North American Development Bank (NADB) and each of its directors, officers, employees, agents and representatives (collectively, "NADB's Associated Persons") against all claims for death, personal injury, damages, or other relief against NADB or NADB's Associated Persons, including costs, expenses and attorney's fees, resulting from negligence or willful acts or failure to act by the Contractor.
- 9.5 In accordance with Sections 552.371 and 552.372 of the Texas Government Code, the following language is included, and applicable in contracts that require or result in the expenditure of public funds of at least \$1,000,000:

CONTRACTING INFORMATION. CONTRACTOR must preserve all contracting information related to this Agreement as provided by the records retention schedule requirements applicable to the OWNER for the duration of this Agreement. CONTRACTOR will promptly provide the OWNER any contracting information related to this Agreement that is in the custody or possession of the CONTRACTOR on request of the OWNER. On completion of this Agreement, CONTRACTOR will either provide at no cost to the OWNER all contracting information related to this Agreement that is in the custody or possession of the CONTRACTOR or preserve the contracting information related to this Agreement as provided by the records retention requirements applicable to the OWNER.

IN WITNESS WHEREOF, OWNER and CONTRACTOR have signed this Agreement in triplicate. One counterpart each has been delivered to OWNER, CONTRACTOR and ENGINEER. All portions of the Contract Documents have been signed or identified by OWNER and CONTRACTOR or by ENGINEER on their behalf.

This Agreement will be effective on _____, 20____.

OWNER: El Paso Water Utilities
Public Service Board of
the City of El Paso, Texas

CONTRACTOR: _____

By _____
Purchasing Agent

By _____

Name: _____

Title: _____

Address for giving notices:

1154 Hawkins Boulevard
El Paso, Texas 79925

Address for giving notices:

Date Signed _____

Date Signed _____

Federal Tax I.D. No. _____

Agent for service or process:

INSTRUCTIONS FOR EXECUTING CONTRACT

If the CONTRACTOR be a corporation, the following certificate should be executed:

I, _____, certify that I am the _____ of the corporation named as CONTRACTOR hereinabove; that, _____ who signed the foregoing Contract on behalf of the CONTRACTOR was then, _____ of said Corporation; that said Contract was duly signed for and in behalf of said Corporation by authority of its governing body and is within the scope of its corporate powers.

Corporate Seal

If the Contract is signed by the secretary of the corporation, the above certificate should be executed by some other officer of the corporation under the corporate seal. In lieu of the foregoing certificate, there may be attached to the Contract copies of so much of the records of the corporation as will show the official character and authority of the officers signing, duly certified by the Secretary or Assistant Secretary under the corporate seal to be true copies.

The full name and business address of the CONTRACTOR should be inserted and the Contract shall be signed with his or her official signature. Please have the name of the signing party or parties typewritten or printed under all signatures to the Contract.

If the CONTRACTOR should be operating as a partnership, each partner should sign the Contract. If the Contract is not signed by each partner, there should be attached to the Contract a duly authenticated Power of Attorney, or other appropriate resolution or document evidencing the signer's (signers') authority to sign such Contract for and in behalf of the partnership.

If the CONTRACTOR is an individual, the trade name (if the CONTRACTOR is operating under an assumed or trade name) should be indicated in the Contract and the Contract should be signed by such individual. If signed by one other than the CONTRACTOR, there should be attached to the Contract a duly authenticated Power of Attorney evidencing the signer's authority to execute such Contract for and in behalf of the CONTRACTOR.

CONTRACT SUBMITTAL CHECKLIST

(The following items must be submitted within **10** calendar days of the Notice of Award unless stated otherwise in the General or Supplemental Conditions)

1.	Executed Agreement
2.	Payment and Performance Bonds
3.	Insurance Certificate and Policies. Policies should be sent in electronic format, email to: rguevara@epwater.org , with copy to becky.ramirez@hubinternational.com (Owner's Risk Manager) and to Purchasing.Info@epwater.org .
4.	If employees provided by leasing company, evidence of Texas State License and copy of their Worker's Compensation policy. If no leased employees will be used, provide a letter on Contractor's letterhead stating so.
5.	Certificate of Account Status (paid franchise taxes)
6.	Final/Updated (if applicable) Minority Certification and Participation Summary
7.	Preliminary Schedule of Values
8.	Preliminary Construction Schedule
9.	Schedule of Shop Drawings
10.	Trench Safety System (sealed by a Professional Engineer)
11.	Trench Safety Plan
12.	Stormwater Pollution Prevention Plan (NOT REQUIRED)
13.	Traffic Control Plan (NOT REQUIRED)
14.	Health and Safety Plan

- **Deliver all items to the OWNER's Purchasing Department**
- **Deliver electronic copies of items 7-14 to EPWater Project Manager**

SECTION 26 05 05 - SELECTIVE DEMOLITION FOR ELECTRICAL

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Removal of existing electrical equipment, wiring, and conduit in areas to be altered, modified or abandoned. Removal of designated construction; dismantling, cutting and alterations for completion of the Work.
 - 2. Disposal of materials.
 - 3. Storage of removed materials.
 - 4. Identification of utilities.
 - 5. Salvaged items.
 - 6. Protection of items to remain as indicated on Drawings.
 - 7. Relocate existing equipment to accommodate construction.
- B. Related Sections:
 - 1. Division 01 Specification Sections apply to Work of this Section.

1.2 CLOSEOUT SUBMITTALS

- A. Section 01 70 00 "Execution and Closeout Requirements:" Requirements for submittals.
- B. Project Record Documents: Record actual locations of capped conduits and equipment abandoned in place.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with El Paso Water Standards.

1.4 COORDINATION

- A. Section 01 30 00 "Administrative Requirements:" Requirements for coordination.
- B. Conduct demolition to minimize interference with adjacent building areas.
- C. Coordinate demolition work with mechanical process equipment demolition.
- D. Coordinate and sequence demolition so as not to cause shutdown of operation of surrounding areas.
- E. Shut-down Periods:
 - 1. Arrange timing of shut-down periods of in service panels with Owner. Do not shut down any utility without prior written approval.
 - 2. Keep shut-down period to minimum or use intermittent period as directed by Owner.
 - 3. Maintain life-safety systems in full operation in occupied facilities or provide notice minimum 3 days in advance.
- F. Identify salvage items in cooperation with Owner.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Section 01 30 00 "Administrative Requirements:" Verification of existing conditions before starting work.
- B. Verify wiring and equipment indicated to be demolished serve only abandoned facilities.
- C. Verify termination points for demolished services.

3.2 PREPARATION

- A. Erect, and maintain temporary safeguards, barricades, and similar measures, for protection of the public, Owner, Contractor's employees, and existing improvements to remain.
- B. Temporary egress signage and emergency lighting

3.3 DEMOLITION

- A. Electrical Demolition Drawings are based on casual field observation and existing record documents. Report discrepancies to Owner and Engineer, before disturbing existing installation.
- B. Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with walls and floors, and patch surfaces.
- C. Remove conduit, wire, boxes, and fastening devices to avoid any interference with new installation.
- D. Disconnect electrical systems in walls, floors, and ceilings scheduled for removal.
- E. Reconnect equipment being disturbed by renovation work and required for continued service to nearest available panel.
- F. Disconnect or shut off service to areas where electrical work is to be removed. Remove electrical fixtures, equipment, and related switches, outlets, conduit and wiring which are not part of final project.
- G. Install temporary wiring and connections to maintain existing systems in service during construction.
- H. Perform work on energized equipment or circuits with experienced and trained personnel.
- I. Remove, relocate, and extend existing installations to accommodate new construction.
- J. Repair adjacent construction and finish damaged during demolition and extension work.
- K. Remove exposed abandoned grounding and bonding components, fasteners and supports, and electrical identification components, including abandoned components above accessible ceiling finishes. Cut embedded support elements flush with walls and floors.
- L. Clean and repair existing equipment to remain or to be reinstalled.
- M. Protect and retain power to existing active equipment remaining.
- N. Cap abandoned empty conduit at both ends.

3.4 EXISTING PANELBOARDS

- A. Ring out circuits in existing panel affected by the Work. Where additional circuits are needed, reuse circuits are available for reuse. Install new breakers.
- B. Tag unused circuits as spare.
- C. Where existing circuits are indicated to be reused, use sensing measuring devices to verify circuits feeding Project area are not in use.

-
- D. Remove existing wire no longer in use from panel to equipment.
 - E. Provide new updated directories where more than three circuits have been modified or rewired.

3.5 SALVAGE ITEMS

- A. Remove and protect items indicated on Drawings to be salvaged and turn over to Owner.
- B. Items of salvageable value may be removed as work progresses. Transport salvaged items from site as they are removed.

3.6 REUSABLE ELECTRICAL EQUIPMENT

- A. Carefully remove equipment, materials, or fixtures which are to be reused.
- B. Disconnect, remove, or relocate existing electrical material and equipment interfering with new installation.
- C. Relocate existing lighting fixtures as indicated on Drawings. Clean fixtures and re-lamp. Test fixture to see if it is in good working condition before installation at new location.

3.7 CLEANING

- A. Section 01 70 00 "Execution and Closeout Requirements:" Requirements for cleaning.
- B. Remove demolished materials as work progresses. Legally dispose.
- C. Keep the workplace neat.

3.8 PROTECTION OF FINISHED WORK

- A. Section 01 70 00 "Execution and Closeout Requirements:" Requirements for protecting finished Work.

END OF SECTION

SECTION 40 77 00 – CONTROL SYSTEM UPGRADES

PART 1 - GENERAL

1.1 SUMMARY

- A. Scope of Work:
 - 1. Furnish and install all instrumentation and control upgrades, including cabling and terminations needed to monitor the perforated plate belt screen(s), wash press(es), conveyor, and Level Lodor on the existing plant SCADA network, and to send control commands, required process data and setpoint changes from the plant PLC to the perforated plate belt screen(s), wash press(es), conveyor, and Level Lodor.
 - 2. Create HMI screens for the plant SCADA system to monitor perforated plate belt screen(s), wash press(es), conveyor, and Level Lodor status equivalent to the perforated plate belt screen(s), wash press(es), conveyor, and Level Lodor local control Panel.
 - 3. Connect existing I/O from existing plant PLC to new perforated plate belt screen(s), wash press(es), conveyor, and Level Lodor local control panel as indicated on Project Drawings.
- B. Related Sections:
 - 1. Division 01 Specification Sections apply to Work of this Section.

1.2 GENERAL REQUIREMENTS

- A. Contractor provides services of system integrators to implement requirements of this section. System integrators shall have a minimum of ten (10) years of experience in controls, automation, and/or system integration.
- B. Contractor examines site, Drawings, Specifications, and control strategy to determine actual locations, processes, programming strategies, and configurations.
- C. Contractor provides Human Machine Interface (HMI), PLC, and SCADA programming as part of Project. Owner and Engineer perform acceptance test of SCADA system as a whole. Test includes visual inspection for conformance with Specifications, functionality of programmed system, program documentation, and system ability to be easily modified. Contractor makes any corrections necessary to fully monitor and control the perforated plate belt screen(s), wash press(es), conveyor, and Level Lodor.

1.3 CONTROL STRATEGY

- A. Contractor coordinates all programming efforts with Owner. Control strategy for programming station PLC, represents Owner's minimum requirements.
- B. Program Structure and Logic Criteria:
 - 1. Programming languages other than ladder-logic type, (structured text, function block, etc.) to be kept at minimum if need arises for languages to be utilized, (I/O mapping, analog scaling, etc.).
 - 2. Do not utilize PLC programming aliasing for tag creation/connection to module I/O.
 - 3. All physical I/O mapped to memory locations outside of those created by PLC.
 - 4. All memory location tag names shall utilize ISA symbols and mnemonic-type naming for PLC memory tags like those utilized within Owner's current programming schemes.
 - 5. HMI creation utilizes a dedicated tag database derived from PLC tag databases directed through compatible communication software.

-
6. All control and monitoring algorithms programmed within PLCs.
 7. HMI development limited to on-screen monitoring, trending, alarming, setpoint alteration, control mode alteration, and minor calculations.
 8. HMI calculations shall not supersede or affect PLC programming.
 9. All alarms created within PLC shall be visible and alerted on HMI.
- C. Control Requirements. Program Station PLC and HMI:
1. In the existing plant Allen Bradley Compact Logix PLC 1769-L32# is the current controller series in use. Contractor to implement communications and connections between new equipment and newly replaced equipment considering the current version, firmware and software in-use at the plant. New automation equipment as supplied by OEM will be required to establish communications with plant PLCs regardless of OEM automation equipment supplied.
 2. Transmit plant data necessary for the proper operation of the new equipment via an existing 4-20ma output channel and new data connection as shown on project drawings.
 3. Monitor, control, alarm, and trend new equipment on an existing HMI screen, to be chosen by plant personnel.
 4. Create/import new screens from local control panels (OIT/HMI) into existing plant HMI system.
 5. Monitor perforated plate belt screen(s), wash press(es), conveyor, and Level Lodor System on the existing plant network. Utilize Ethernet communications from the Level Lodor System to the existing plant control system network. Utilize hardwired I/O from the perforated plate screen(s), wash press(es), and conveyor control panel(s) to the existing headworks area PLC.

1.4 OWNER RESPONSIBILITY

- A. Owner and Engineer responsible for providing guidance to PLC programming and HMI configuration.
- B. Contractor provides, assistance of system integrator during SCADA startup and commissioning.

1.5 CONTRACTOR RESPONSIBILITY

- A. Contractor to provide qualified systems integrator during new equipment installation and replaced equipment installation specific to electrical and control wiring. Systems integrators shall have a minimum of 10 years' experience with industrial control systems utilizing PLC based automation controllers and plant wide operator interface software with emphasis on municipal wastewater treatment systems. Systems integrator shall have at minimum 10 years' experience with Rockwell Software and Allen Bradley based automation controllers. System integrator to coordinate communication requirements as shown on project drawings between newly installed equipment and existing plant control system. System integrator to successfully integrate all new equipment into existing plant control system to include PLC code modifications and HMI screen modifications/additions as required to create a fully functional system with the newly installed equipment. System integrator to successfully integrate replaced equipment with that of existing control loops, PLC code, and HMI screens.

PART 2 - PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION

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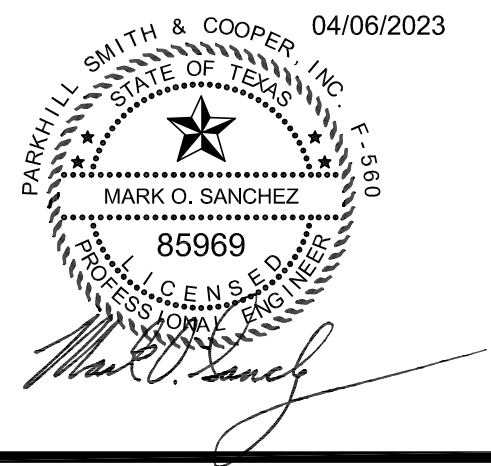
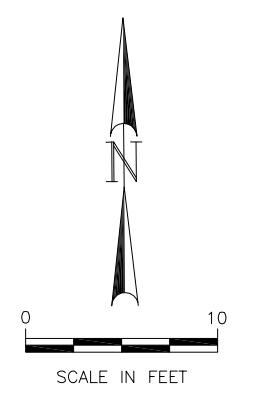
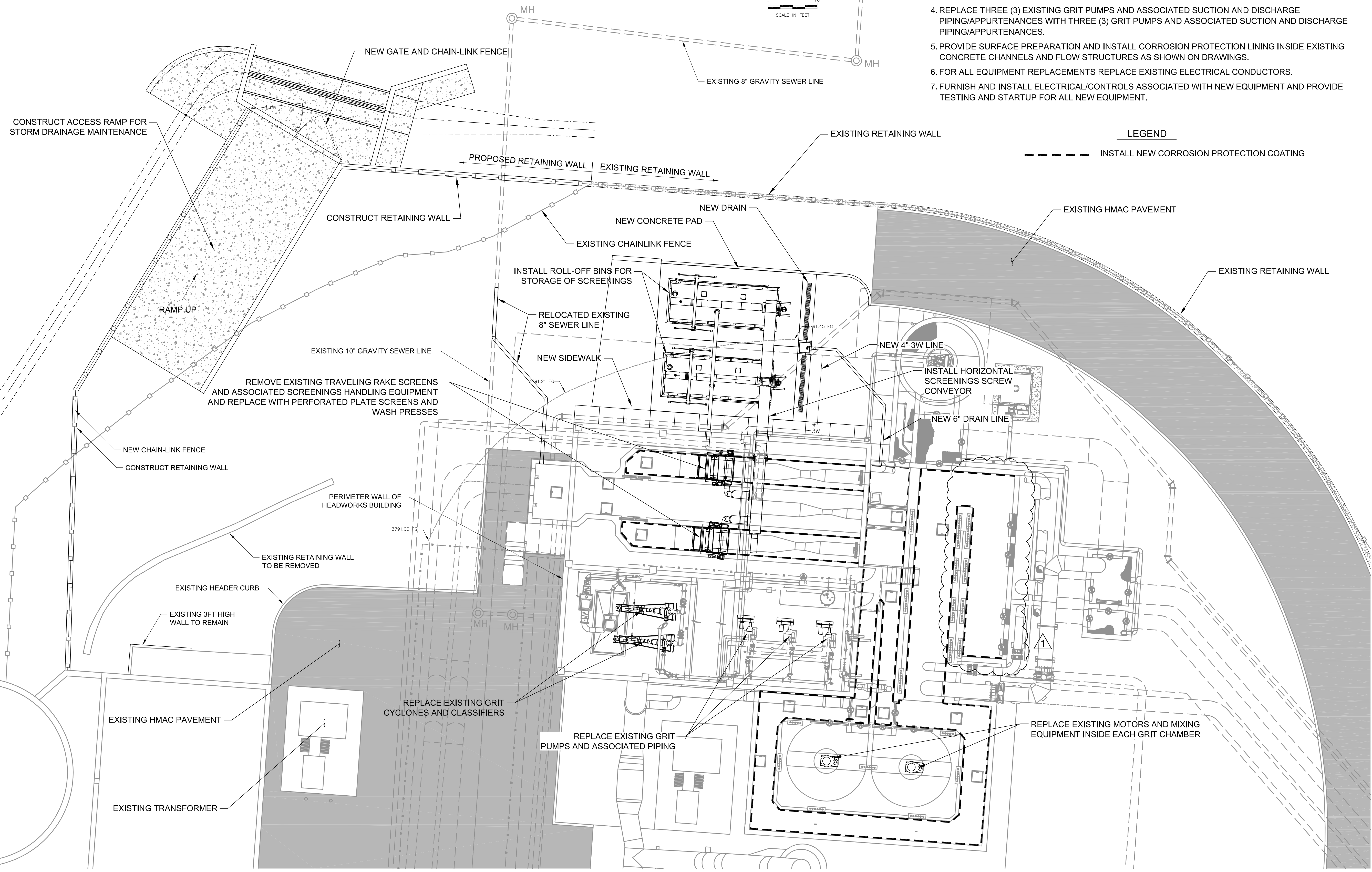
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SCOPE OF WORK:

1. CONSTRUCT RETAINING WALL, SITE PIPING MODIFICATIONS, AND ASSOCIATED GRADING AND PAVEMENT.
2. REPLACE TWO (2) EXISTING TRAVELING RAKE SCREENS AND ASSOCIATED SCREENINGS CAPTURE/CONVEYANCE EQUIPMENT WITH TWO (2) PERFORATED PLATE SCREENS, TWO (2) WASH PRESSES, ONE (1) HORIZONTAL SCREW CONVEYOR, AND TWO (2) OUTSIDE COVERED ROLL-OFF BIN FOR STORAGE OF SCREENINGS.
3. REPLACE TWO (2) EXISTING GRIT CYCLONES/CLASSIFIERS AND ASSOCIATED PIPING/APPURTENANCES WITH TWO (2) GRIT CYCLONES/CLASSIFIERS AND ASSOCIATED PIPING/APPURTENANCES.
4. REPLACE THREE (3) EXISTING GRIT PUMPS AND ASSOCIATED SUCTION AND DISCHARGE PIPING/APPURTENANCES WITH THREE (3) GRIT PUMPS AND ASSOCIATED SUCTION AND DISCHARGE PIPING/APPURTENANCES.
5. PROVIDE SURFACE PREPARATION AND INSTALL CORROSION PROTECTION LINING INSIDE EXISTING CONCRETE CHANNELS AND FLOW STRUCTURES AS SHOWN ON DRAWINGS.
6. FOR ALL EQUIPMENT REPLACEMENTS REPLACE EXISTING ELECTRICAL CONDUCTORS.
7. FURNISH AND INSTALL ELECTRICAL/CONTROLS ASSOCIATED WITH NEW EQUIPMENT AND PROVIDE TESTING AND STARTUP FOR ALL NEW EQUIPMENT.

LEGEND

--- INSTALL NEW CORROSION PROTECTION COATING



JOHN T. HICKERSON
HEADWORKS
BARSREEN REPLACEMENT

EL PASO WATER

701 EXECUTIVE CENTER BLVD
EL PASO, TEXAS 79936

KEY PLAN

VERIFY SCALES
BAR IS 1 INCH ON ORIGINAL DRAWING
0 1"
IF NOT 1 INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

NO.	DATE	DESCRIPTION
1	5/16/23	ADDENDUM NO. 2

ISSUING OFFICE: EL PASO PROJECT NO: 3065.21

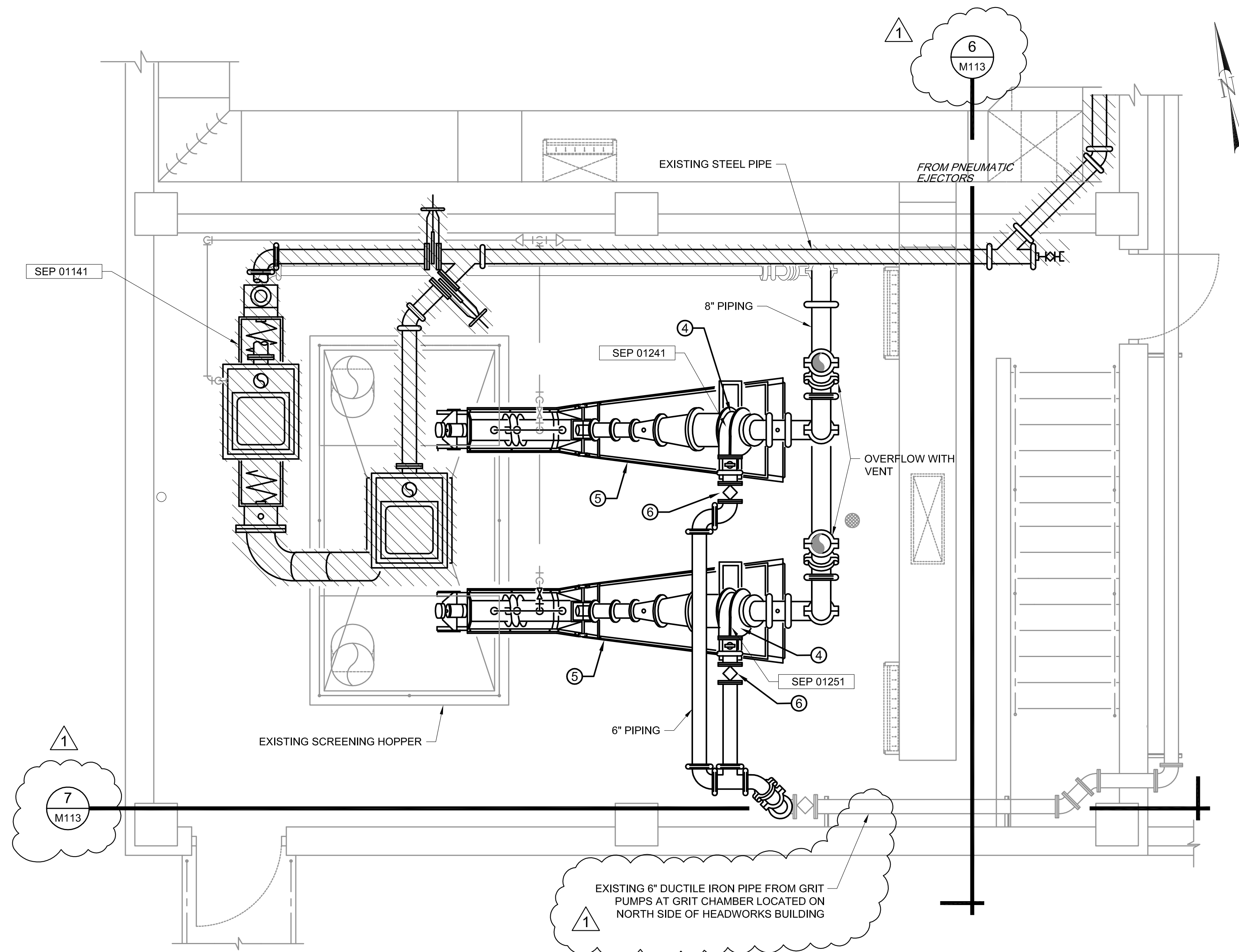
HEADWORKS
IMPROVEMENTS
SCOPE OF WORK

C101

A HEADWORKS AREA IMPROVEMENTS PLAN VIEW
SCALE: 1" = 20'

FILE NAME: A:\2023\3065.21\03_DSGN\01_DWG\050_CIVIL\C101-3065.dwg LAYOUT NAME: C101 PRINTED: Thursday, May 11, 2023 - 4:06pm USER: osanchez

FILE NAME: A:\2021\3065.2\103_DSGN01_DWG\050_CIVIL\103-3065.dwg LAYOUT NAME: M103 PRINTED: Thursday, May 11, 2023 - 4:05pm USER: osanchez



C PARTIAL PLAN
SCALE: 3/8"=1'-0"

KEY NOTES

AS INDICATED BY: (00)

1. HANDRAIL
2. ENERGY DISSIPATION STRUCTURE
3. KNIFE GATE VALVE WITH CHAIN OPERATOR
4. GRIT CYCLONE INTEGRAL WITH CLASSIFIER. REFER TO SPECIFICATIONS.
5. GRIT CLASSIFIER AND DEWATERING EQUIPMENT. REFER TO SPECIFICATIONS.
6. PLUG VALVE WITH CHAIN OPERATOR.

GENERAL NOTES

- A. HEAVY BOLD LINE IDENTIFIES EQUIPMENT AND PIPING TO BE REPLACED.
- B. HEAVY BOLD LINE WITH CROSS-HATCHING IDENTIFIES EQUIPMENT AND PIPING TO BE PERMANENTLY REMOVED.
- C. ALL PIPING SHOWN TO BE REPLACED SHALL BE STAINLESS STEEL 304L, SCHEDULE 40S WITH GROOVED JOINTS AND RESTRAINED MECHANICAL COUPLINGS. PIPING CONNECTED TO VALVES SHALL BE FLANGED AT VALVE.
- D. ALL VALVES SHOWN TO BE REPLACED SHALL BE FLANGED.
- E. ALL DRAIN PIPING CONNECTED TO BOTTOM OF CLASSIFIER SHALL BE REPLACED AND MEET SAME REQUIREMENTS AS NOTE C.
- F. CONTRACTOR TO VERIFY DIMENSIONS OF EQUIPMENT AND PIPING AND INCORPORATE INTO MATERIAL AND EQUIPMENT SUBMITTALS FOR APPROVAL BY ENGINEER.
- G. EXISTING EQUIPMENT IS OVER 20 YEARS OLD AND REPLACEMENT EQUIPMENT WILL NOT BE EXACT DIMENSIONS AND CONFIGURATION AS EXISTING. SLIGHT MODIFICATIONS AND ADJUSTMENTS TO PIPING AND SUPPORTS WILL BE REQUIRED AND SHALL BE INCLUDED IN THE BID PRICE.
- H. CONTRACTOR SHALL COORDINATE WITH PLANT SUPERINTENDENT FOR ISOLATION AND DE-ENERGIZATION OF EQUIPMENT, PRIOR TO REMOVAL.
- I. CONTRACTOR SHALL COORDINATE PIPING LAYOUT AND CONFIGURATION OF NEW FITTINGS, VALVES, AND APPURTENANCES WITH PLANT SUPERINTENDENT AND ENGINEER.

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**JOHN T. HICKERSON
HEADWORKS
BARSREEN REPLACEMENT**

EL PASO WATER

701 EXECUTIVE CENTER BLVD
EL PASO, TEXAS 79936

KEY PLAN

VERIFY SCALES

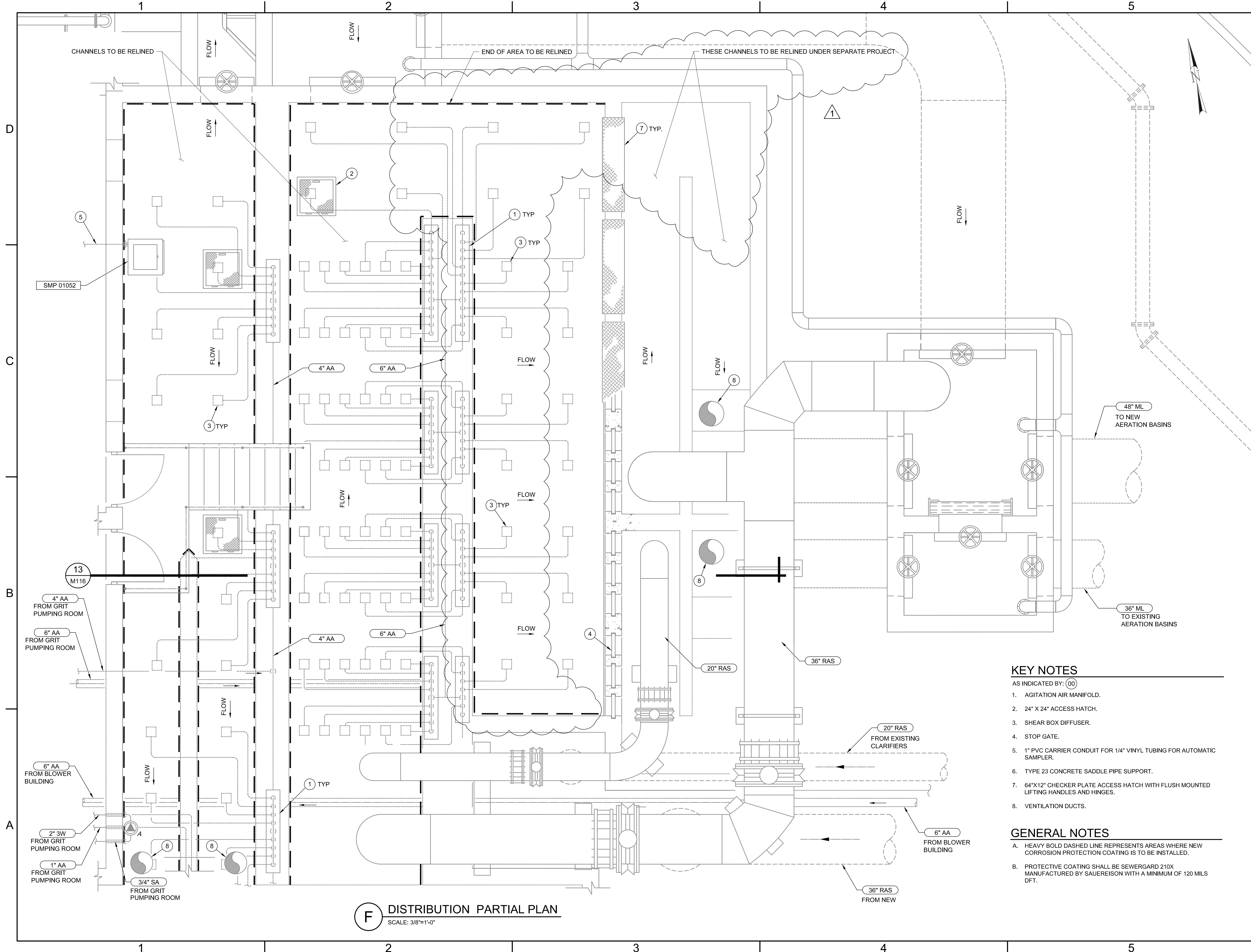
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0 1"
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NO.	DATE	DESCRIPTION
1	5/16/23	ADDENDUM NO. 2

ISSUING OFFICE: EL PASO PROJECT NO: 3065.21

**MEZZANINE
PARTIAL PLAN
EQUIPMENT
REPLACEMENT AND
REMOVAL
M103**

FILE NAME: A:\2021\3065.21\03_DSGN01_DWG\050_CIVIL\106-3065.dwg LAYOUT NAME: M108 PRINTED: Thursday, May 11, 2023 - 4:07pm USER: osanchez



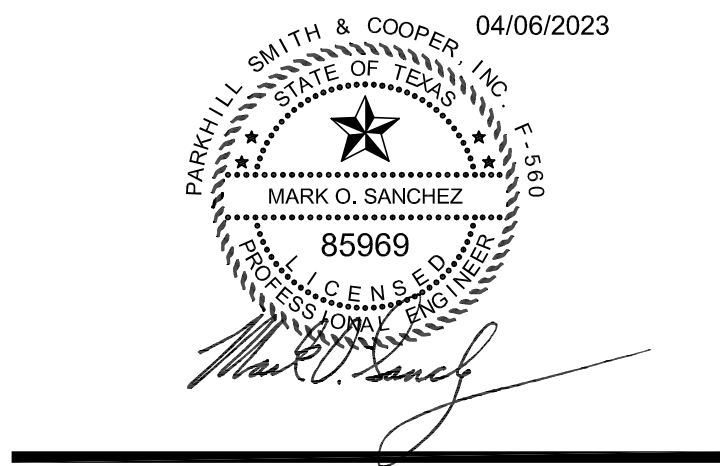
F DISTRIBUTION PARTIAL PLAN
SCALE: 3/8"=1'-0"

KEY NOTES

- AS INDICATED BY: (00)
- AGITATION AIR MANIFOLD.
 - 24" X 24" ACCESS HATCH.
 - SHEAR BOX DIFFUSER.
 - STOP GATE.
 - 1" PVC CARRIER CONDUIT FOR 1/4" VINYL TUBING FOR AUTOMATIC SAMPLER.
 - TYPE 23 CONCRETE SADDLE PIPE SUPPORT.
 - 64"X12" CHECKER PLATE ACCESS HATCH WITH FLUSH MOUNTED LIFTING HANDLES AND HINGES.
 - VENTILATION DUCTS.

GENERAL NOTES

- HEAVY BOLD DASHED LINE REPRESENTS AREAS WHERE NEW CORROSION PROTECTION COATING IS TO BE INSTALLED.
- PROTECTIVE COATING SHALL BE SEWERGARD 210X MANUFACTURED BY SAUERREISEN WITH A MINIMUM OF 120 MILS DFT.



**JOHN T. HICKERSON
HEADWORKS
BARSCREEN REPLACEMENT**

EL PASO WATER

701 EXECUTIVE CENTER BLVD
EL PASO, TEXAS 79936

KEY PLAN

VERIFY SCALES

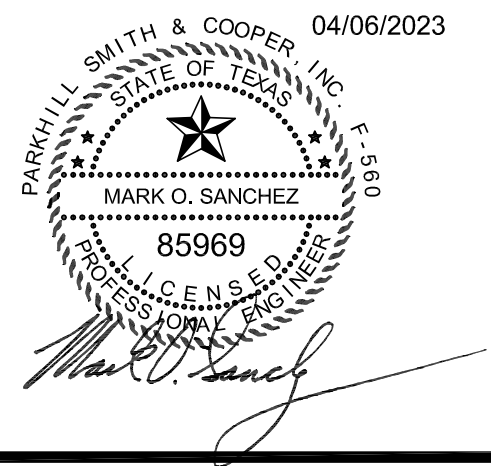
BAR IS 1 INCH ON ORIGINAL DRAWING
0" = 1"
IF NOT 1 INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

NO.	DATE	DESCRIPTION
1	5/16/23	ADDENDUM NO. 2

ISSUING OFFICE: EL PASO PROJECT NO: 3065.21

**HEADWORKS
DISTRIBUTION AREA
PARTIAL PLAN
CHANNEL RELINING**

M108



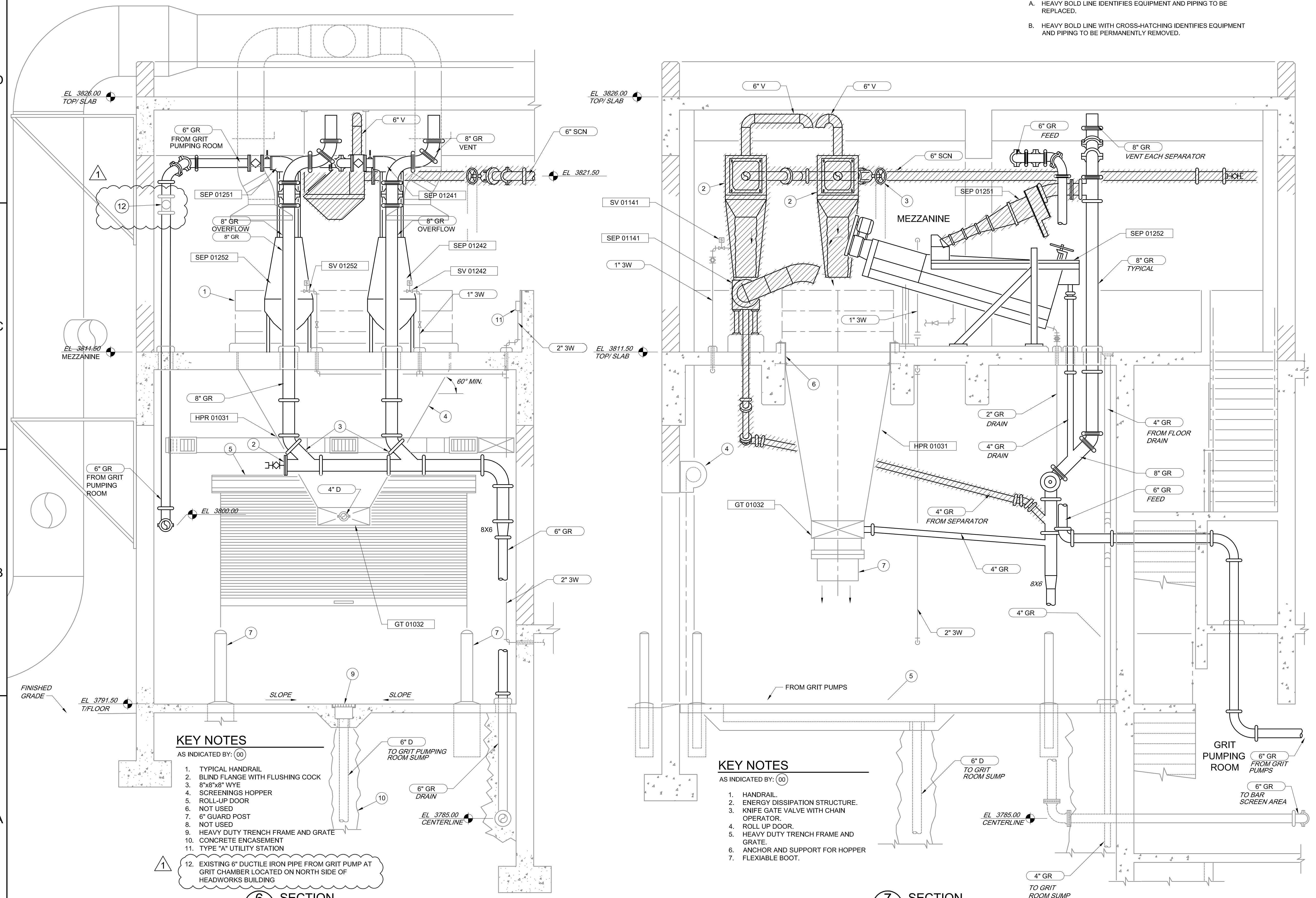
**JOHN T. HICKERSON
HEADWORKS
BARSCREEN REPLACEMENT**

EL PASO WATER

701 EXECUTIVE CENTER BLVD
EL PASO, TEXAS 79936

GENERAL NOTES

- A. HEAVY BOLD LINE IDENTIFIES EQUIPMENT AND PIPING TO BE REPLACED.
- B. HEAVY BOLD LINE WITH CROSS-HATCHING IDENTIFIES EQUIPMENT AND PIPING TO BE PERMANENTLY REMOVED.



KEY NOTES

AS INDICATED BY: (00)

1. TYPICAL HANDRAIL
2. BLIND FLANGE WITH FLUSHING COCK
3. 8"x8"x8" WYE
4. SCREENINGS HOPPER
5. ROLL-UP DOOR
6. NOT USED
7. 6" GUARD POST
8. NOT USED
9. HEAVY DUTY TRENCH FRAME AND GRATE
10. CONCRETE ENCASEMENT
11. TYPE "A" UTILITY STATION
12. EXISTING 6" DUCTILE IRON PIPE FROM GRIT PUMP AT GRIT CHAMBER LOCATED ON NORTH SIDE OF HEADWORKS BUILDING

6 SECTION
M103 SCALE: 3/8"=1'-0"

KEY NOTES

AS INDICATED BY: (00)

1. HANDRAIL
2. ENERGY DISSIPATION STRUCTURE.
3. KNIFE GATE VALVE WITH CHAIN OPERATOR.
4. ROLL UP DOOR.
5. HEAVY DUTY TRENCH FRAME AND GRATE.
6. ANCHOR AND SUPPORT FOR HOPPER FLEXIBLE BOOT.
7. FLEXIBLE BOOT.

7 SECTION
M103 SCALE: 3/8"=1'-0"

KEY PLAN

VERIFY SCALES

BAR IS 1 INCH ON ORIGINAL DRAWING
0 1"
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NO.	DATE	DESCRIPTION
1	5/16/23	ADDENDUM NO. 2

ISSUING OFFICE: EL PASO PROJECT NO: 3065.21

**MEZZANINE
EQUIPMENT
REPLACEMENT AND
REMOVAL**

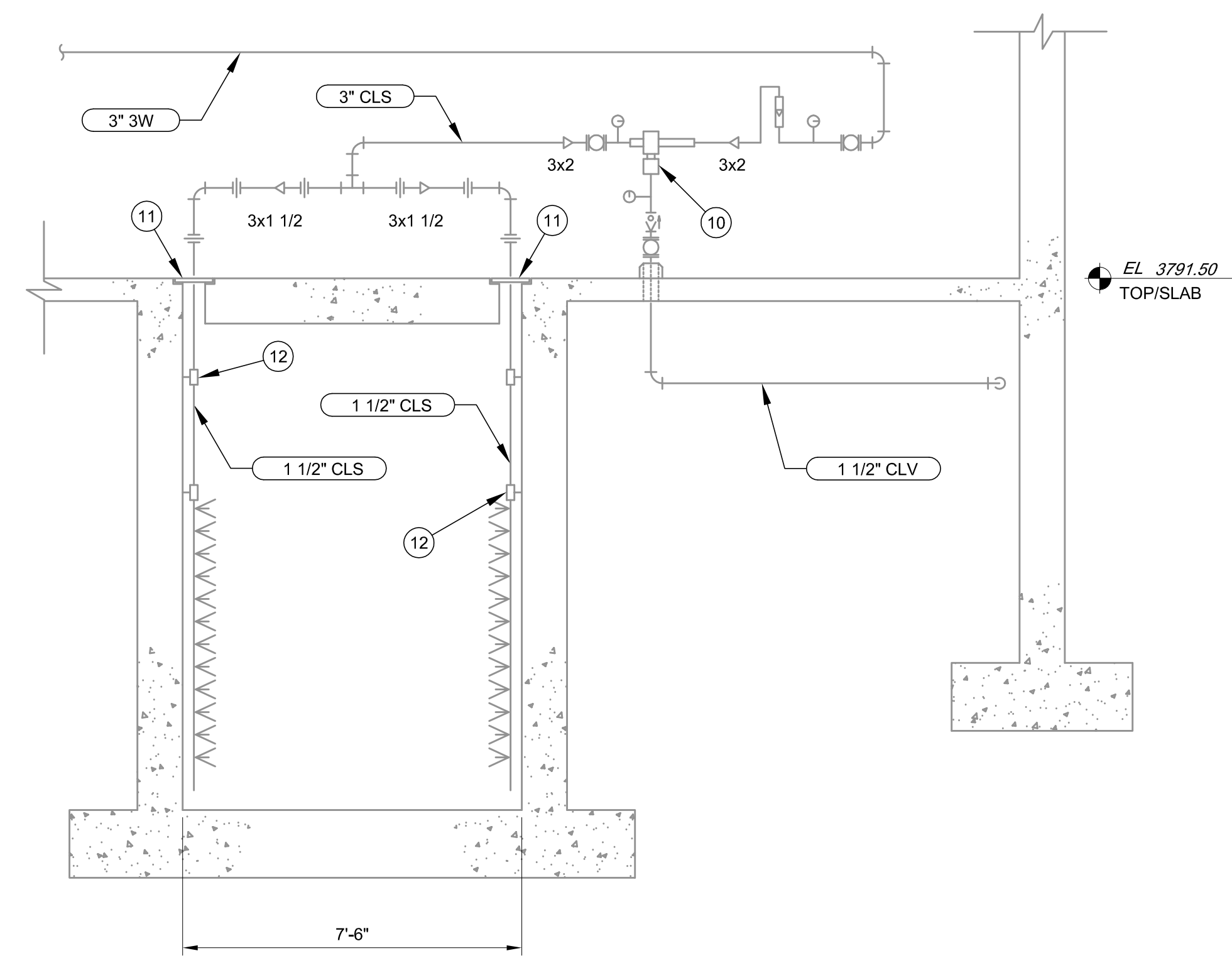
FILE NAME: A:\2021\3065.21\03_DSGN01_DWG050_CIVIL\1119-3065.dwg LAYOUT NAME: M113 PRINTED: Thursday, May 11, 2023 - 4:08pm USER: osanchez



**JOHN T. HICKERSON
HEADWORKS
BARSREEN REPLACEMENT**

EL PASO WATER

701 EXECUTIVE CENTER BLVD
EL PASO, TEXAS 79936



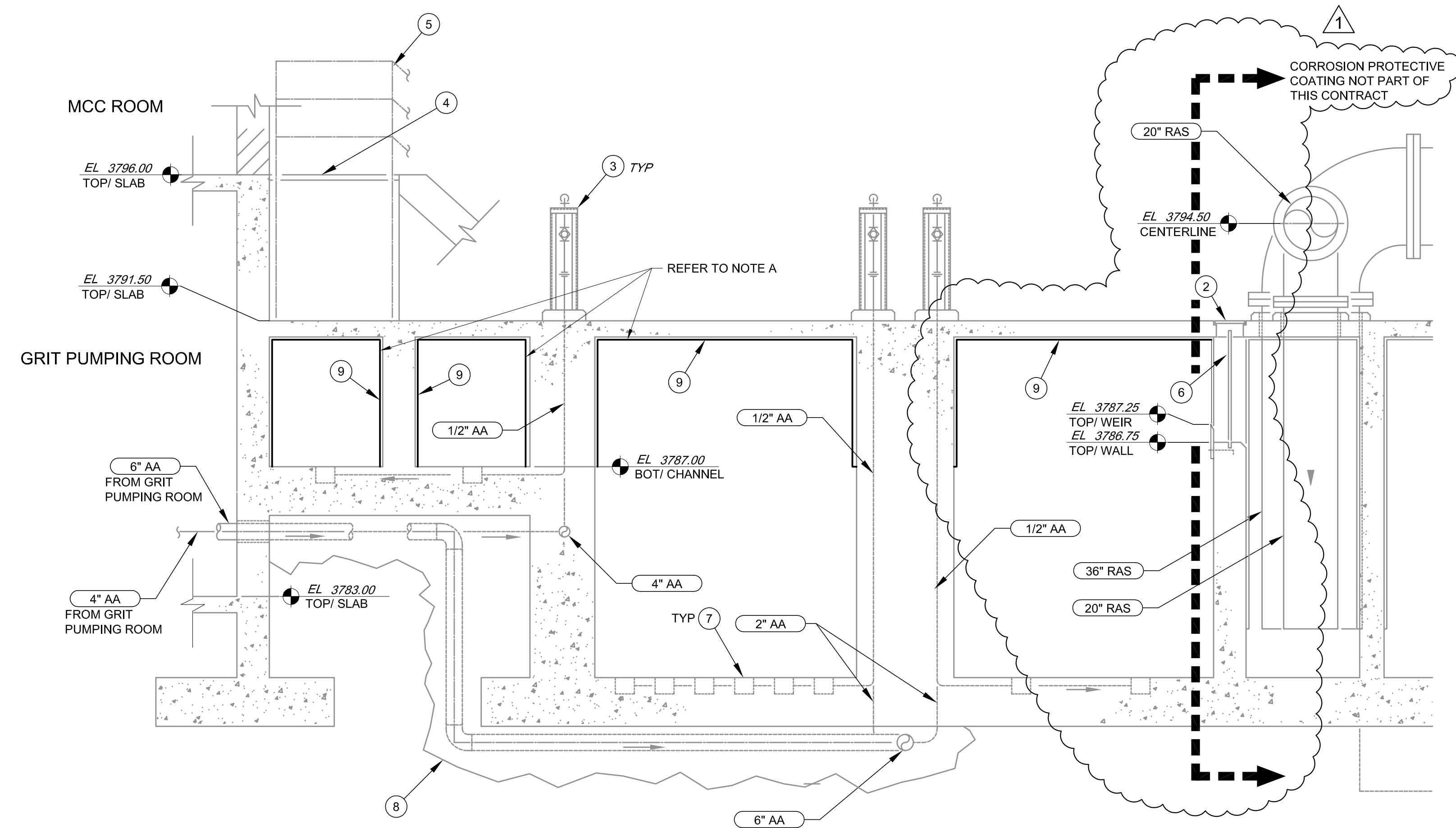
3 SECTION
M102 SCALE: 3/8" = 1'-0"

KEY NOTES

- AS INDICATED BY: (00)
- NOT USED
 - HINGED CHECKERPLATE COVER FOR STOP PLATES, FLUSH MOUNTED
 - AGITATION AIR MANIFOLD
 - ACCESS PLATFORM TO MCC ROOM
 - HANDRAIL.
 - 14" x 36" STOP PLATE
 - SHEAR BOX DIFFUSER
 - CONCRETE ENCASUREMENT
 - PLASTIC LINING
 - CHLORINE EJECTOR
 - 6"x6" REMOVABLE CHECKER PLATE HATCH
 - AIR DROP STAND OFF

GENERAL NOTES

- EXISTING PLASTIC LINING SHOWN IN BOLD ON THESE SHEETS IS TO BE REMOVED AND SURFACE PREPARED FOR NEW PROTECTIVE COATING.
- NEW PROTECTIVE COATING SHALL BE SEWERGARD 210X MANUFACTURED BY SAUERISEN WITH A MINIMUM 120 MILS DFT.
- NEW PROTECTIVE COATING SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, THE DRAWINGS AND SPECIFICATIONS.



13 SECTION
M108 SCALE: 3/8" = 1'-0"

KEY PLAN

VERIFY SCALES

BAR IS 1 INCH ON ORIGINAL DRAWING
0 1"
IF NOT 1 INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

NO.	DATE	DESCRIPTION
1	5/16/23	ADDENDUM NO. 2

ISSUING OFFICE: EL PASO PROJECT NO: 3065.21

**GRIT
CHANNEL RELINING
SECTION**

M116

FILE NAME: A:\2021\3065.21\03_DSGN01_DWG\050_CIVIL\M116-3065.dwg LAYOUT NAME: M116 PRINTED: Thursday, May 11, 2023 - 4:47pm USER: osanchez



**JOHN T. HICKERSON
HEADWORKS
BARSREEN REPLACEMENT**

EL PASO WATER

701 EXECUTIVE CENTER BLVD
EL PASO, TEXAS 79936

KEY PLAN

VERIFY SCALES

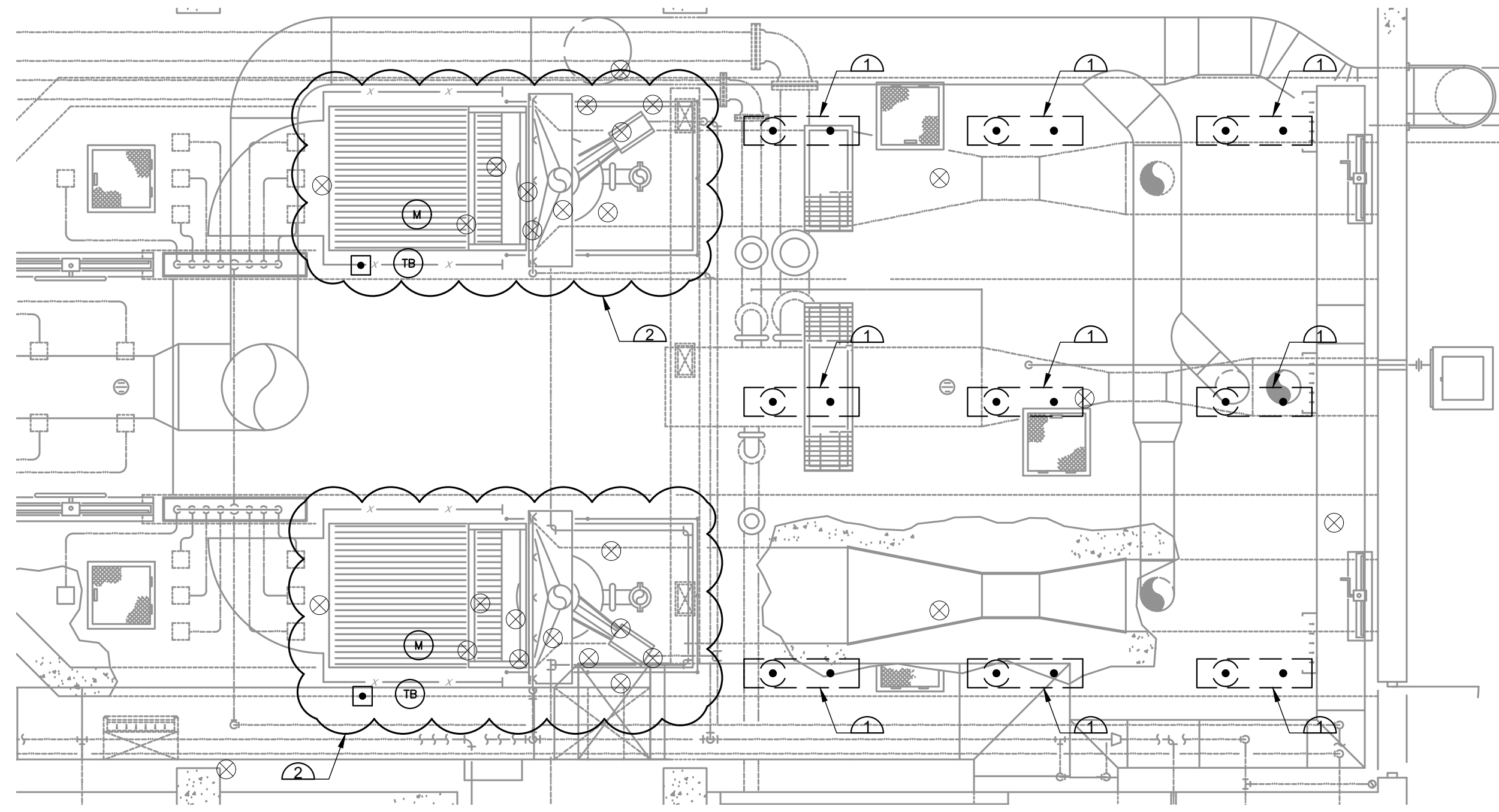
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NO	DATE	DESCRIPTION
1	05-16-2023	ADDENDUM #2

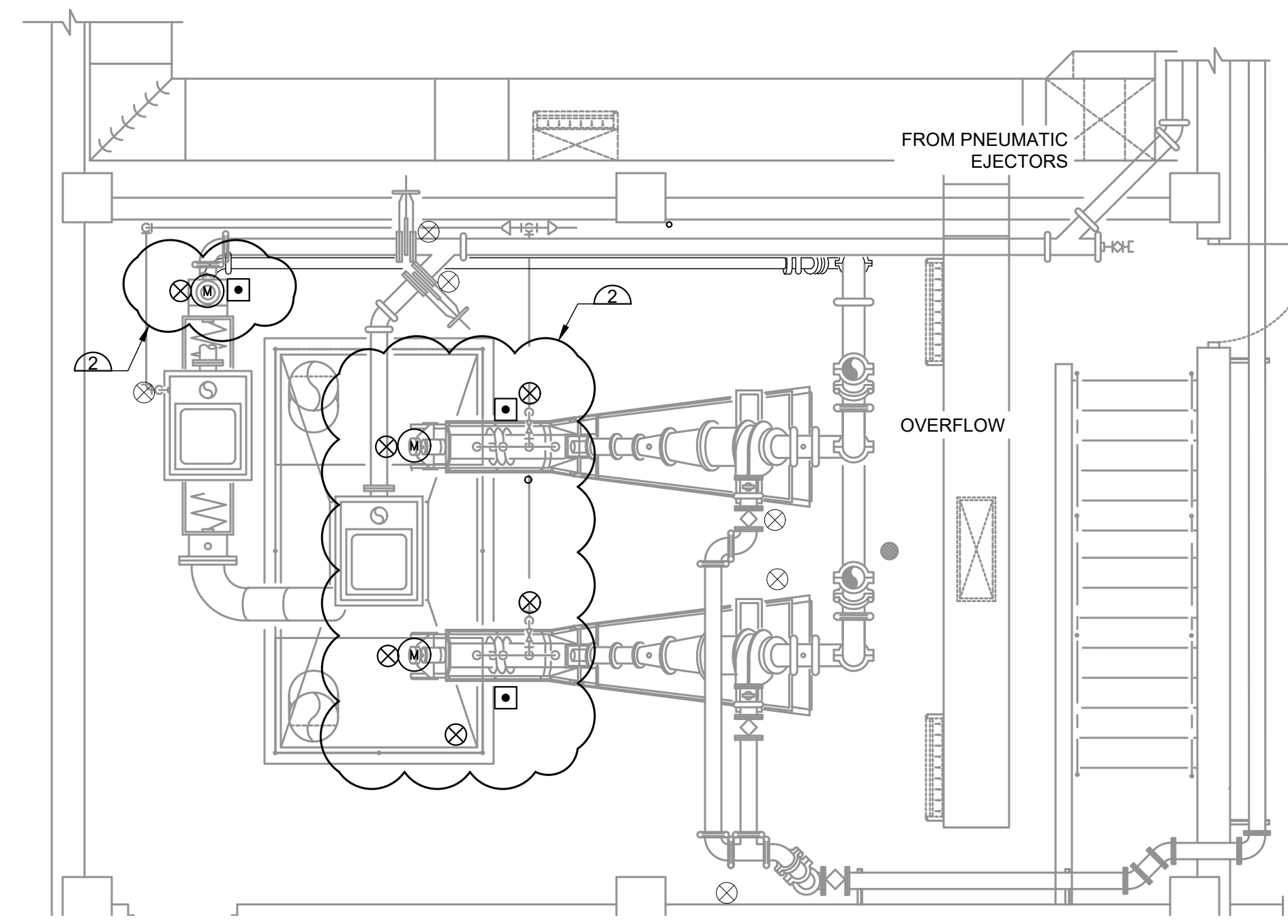
ISSUING OFFICE: EL PASO PROJECT NO: 3065.21

**ELECTRICAL
DEMOLITION
PLAN**

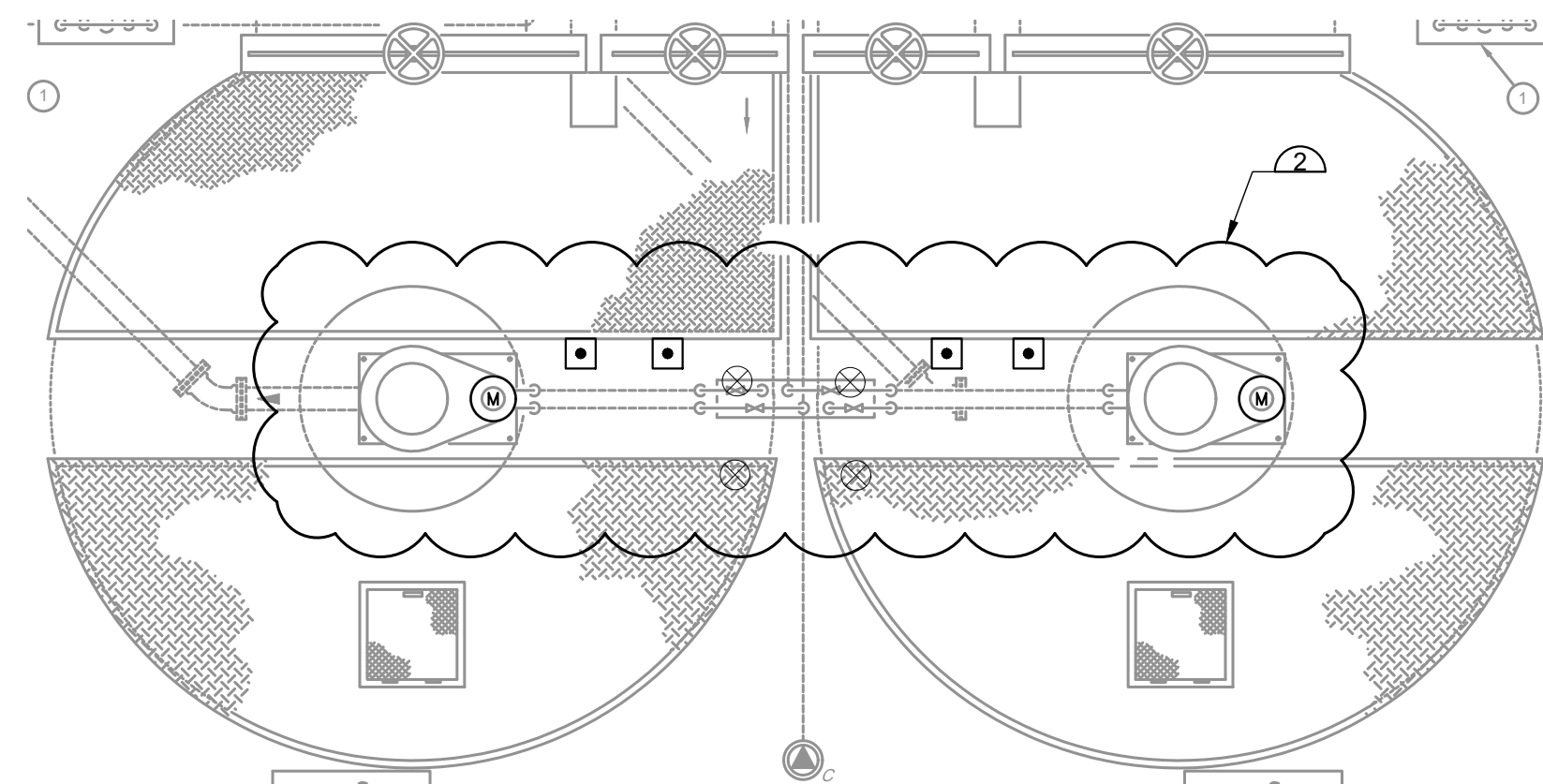
E004



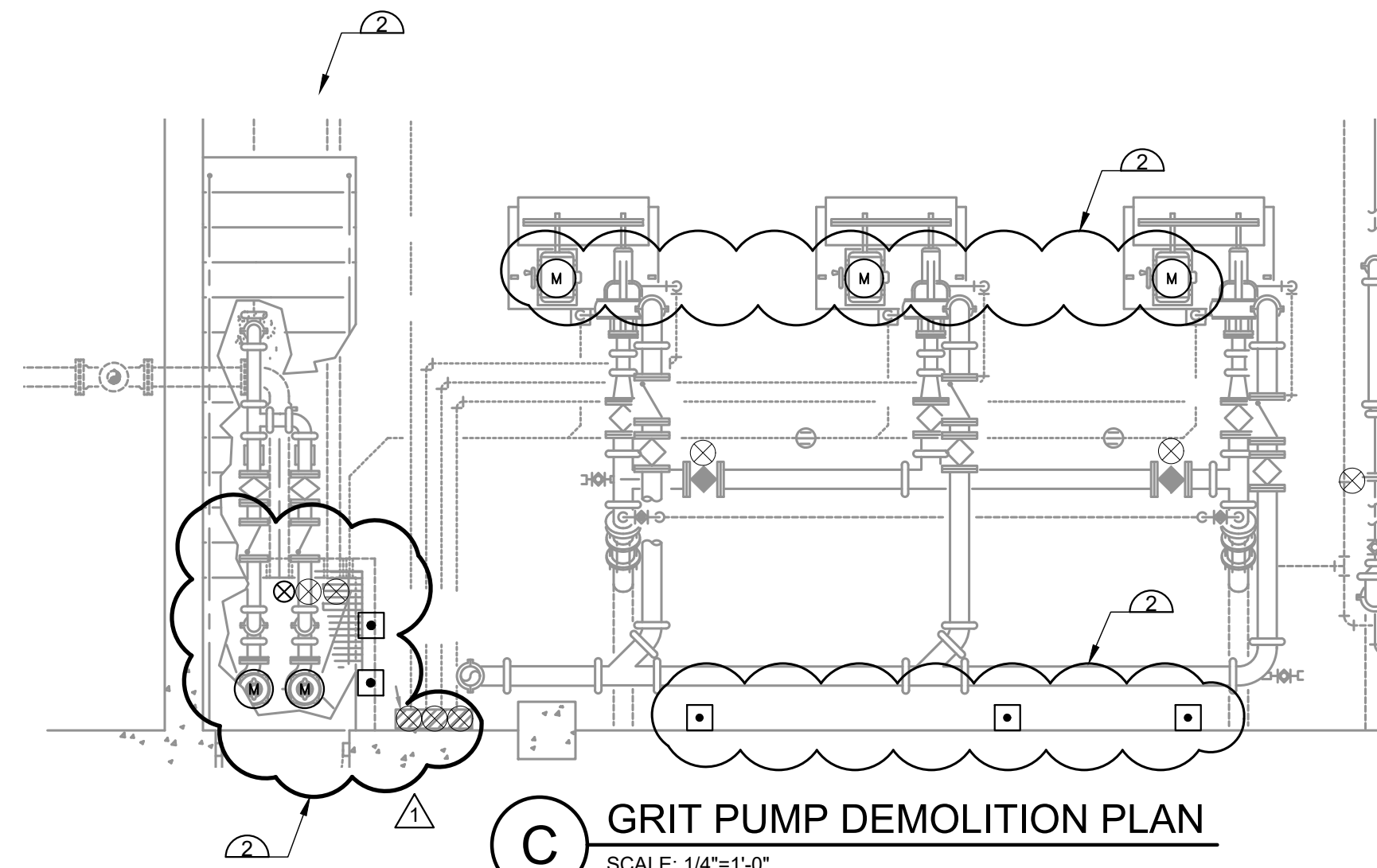
A BARSREEN DEMOLITION PLAN
SCALE: 1/4"=1'-0"



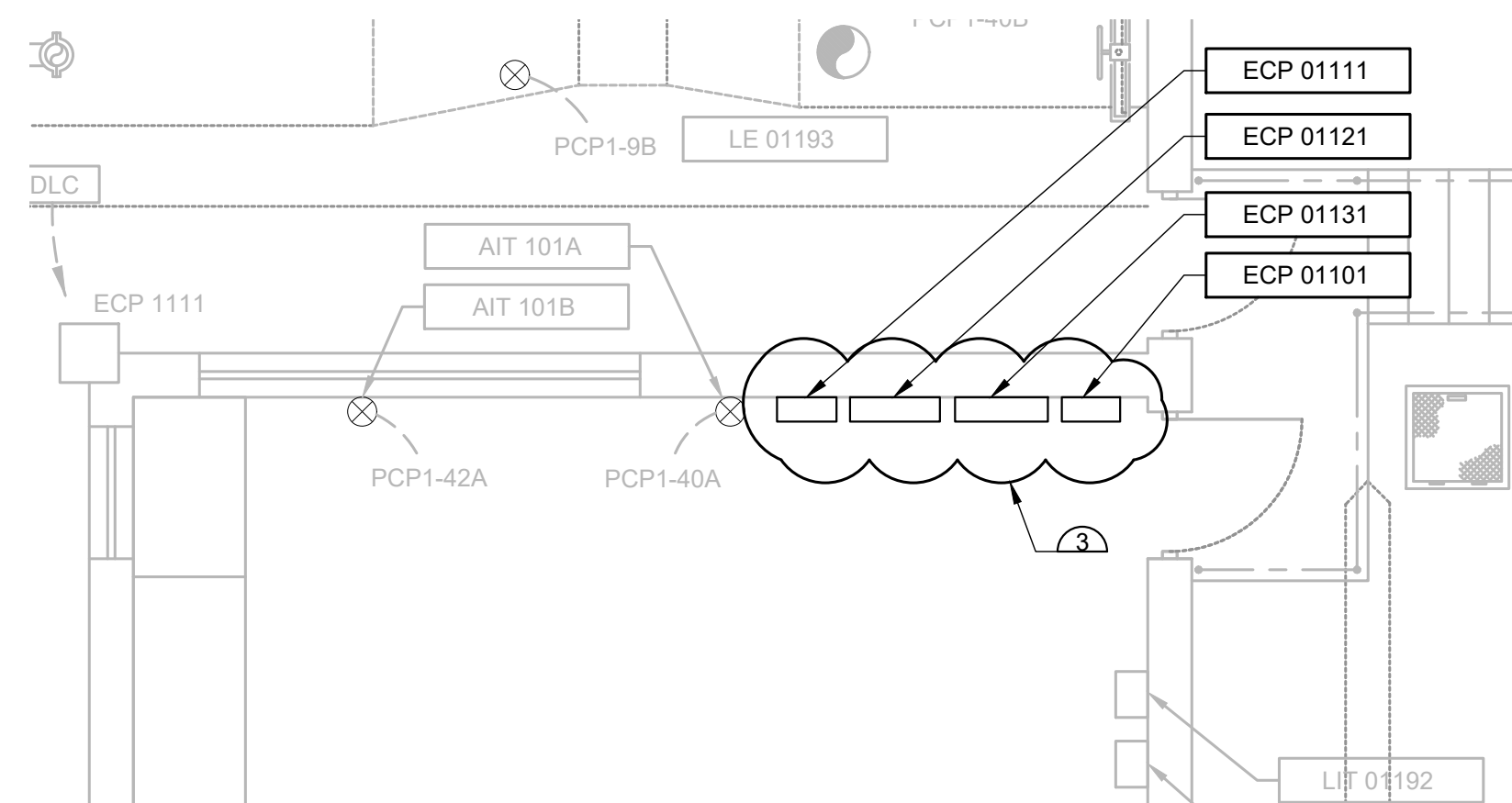
B GRIT CLASSIFIERS DEMOLITION PLAN
SCALE: 1/4"=1'-0"



C GRIT CHAMBERS 1 AND 2 DEMOLITION PLAN
SCALE: 1/4"=1'-0"



C GRIT PUMP DEMOLITION PLAN
SCALE: 1/4"=1'-0"



D ELECTRICAL ROOM DEMOLITION PLAN
SCALE: 1/4"=1'-0"

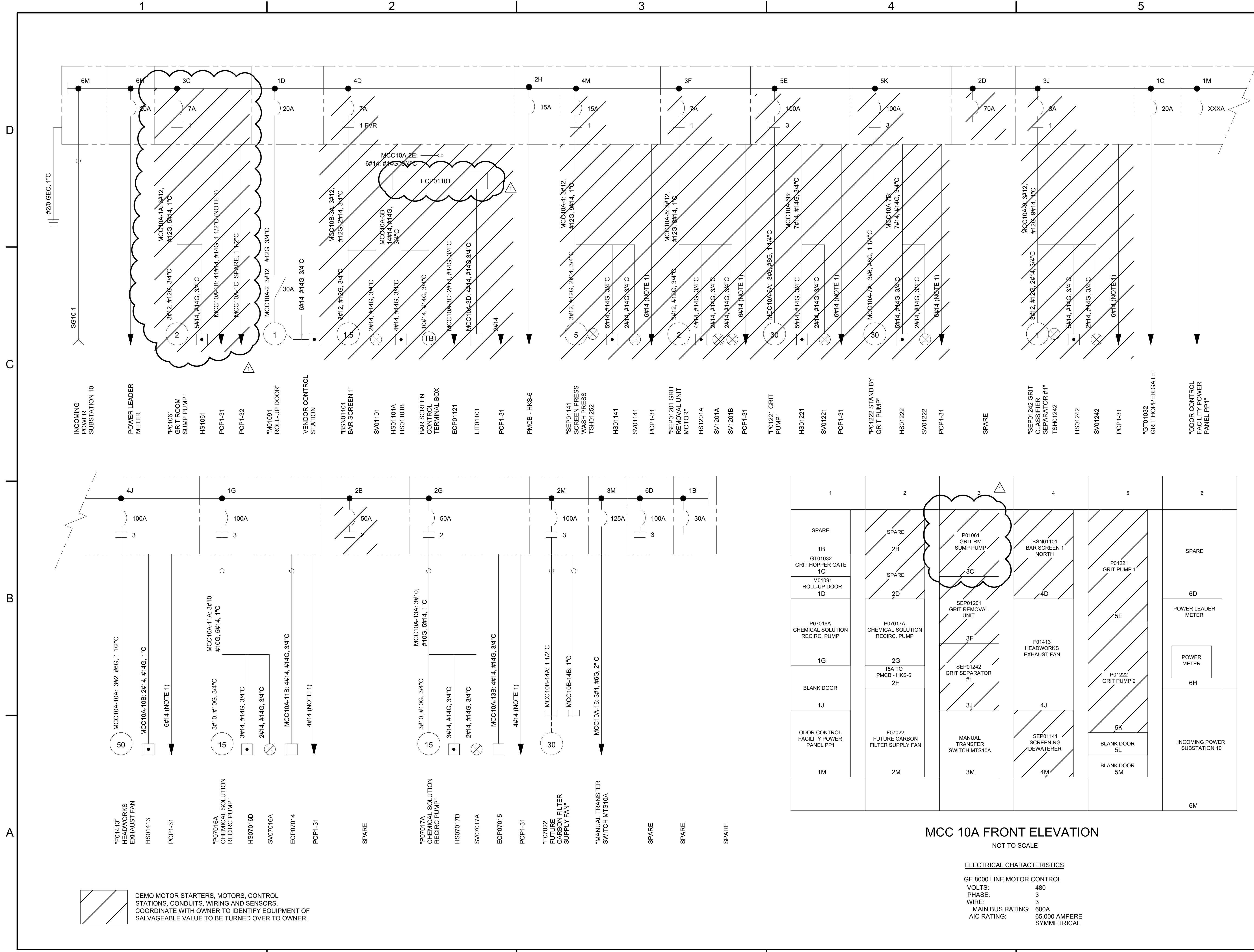
GENERAL NOTES

- A. REFER TO SPECIFICATION SECTION 26 05 05.
- B. COORDINATE WORK WITH MECHANICAL PROCESS EQUIPMENT DEMO WORK, SEE MECHANICAL DEMO SHEETS.
- C. REFER TO SHEETS E004 AND E005 FOR ADDITIONAL INFO ON CONDUITS AND CABLING TO BE REMOVED.

DEMOLITION NOTES

- REMOVE EXISTING CONSTRUCTION AS INDICATED BY:
- 1. RELOCATE EXISTING FIXTURES TO ACCOMMODATE NEW SCREW CONVEYOR. SEE SHEET E006.
 - 2. DEMO MOTORS, CONTROL STATION, CONDUITS, WIRING AND SENSORS FOR ASSOCIATED EQUIPMENT.
 - 3. REMOVE EXISTING PANELS. COORDINATE WITH OWNER TO IDENTIFY CONTROL EQUIPMENT OF SALVAGEABLE VALUE TO BE TURNED OVER TO OWNER.

FILE NAME: A:\2021\3065.21103_DSGND1_DWG150_ELECADD-2\E005-3065.dwg LAYOUT NAME: E005 PRINTED: Monday, May 15, 2023 - 9:17am USER: AWilson



MCC 10A FRONT ELEVATION
NOT TO SCALE

ELECTRICAL CHARACTERISTICS
 GE 8000 LINE MOTOR CONTROL
 VOLTS: 480
 PHASE: 3
 WIRE: 3
 MAIN BUS RATING: 600A
 AIC RATING: 65,000 AMPERE SYMMETRICAL



JOHN T. HICKERSON HEADWORKS BARSCREEN REPLACEMENT

EL PASO WATER

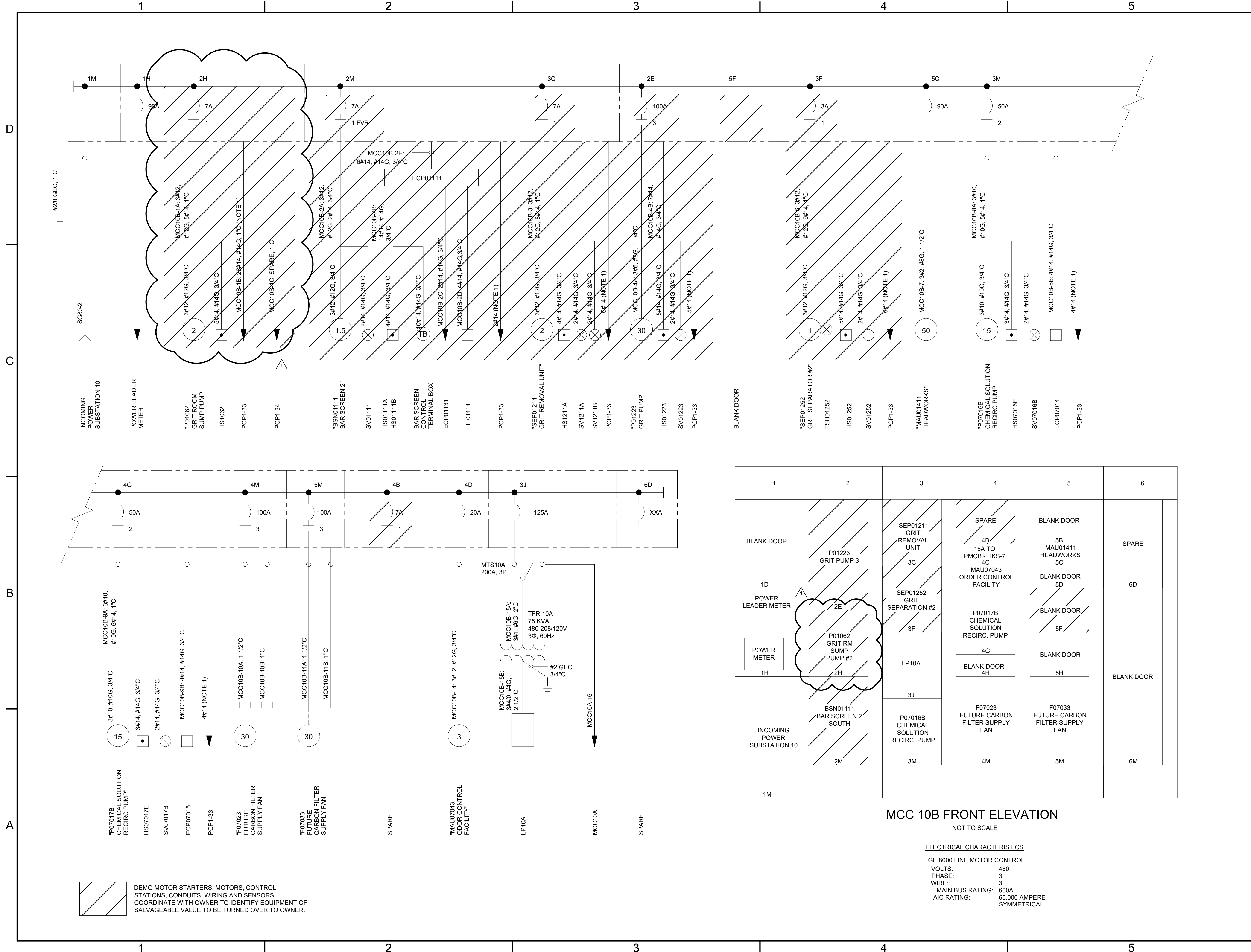
701 EXECUTIVE CENTER BLVD
EL PASO, TEXAS 79936

KEY PLAN

1	2	3	4	5	6
SPARE	SPARE	P01061 GRIT RM SUMP PUMP	BSN01101 BAR SCREEN 1 NORTH	P01221 GRIT PUMP 1	SPARE
GT01032 GRIT HOPPER GATE 1C	SPARE	SEP01201 GRIT REMOVAL UNIT			6D POWER LEADER METER
M01091 ROLL-UP DOOR 1D	P07017A CHEMICAL SOLUTION RECIRC. PUMP	SEP01242 GRIT SEPARATOR #1	F01413 HEADWORKS EXHAUST FAN	P01222 GRIT PUMP 2	POWER METER
	15A TO PMCB - HKS-6				6H
ODOR CONTROL FACILITY POWER PANEL PP1	F07022 FUTURE CARBON FILTER SUPPLY FAN	MANUAL TRANSFER SWITCH MTS10A	SEP01141 SCREENING DEWATERER	5K BLANK DOOR 5L	INCOMING POWER SUBSTATION 10
				5M BLANK DOOR 5M	
					6M

**ELECTRICAL
MCC-10A
ONE-LINE DIAGRAM
DEMO-SHEET**

FILE NAME: A:\2021\3065.21103_DSGND1_DWG\150_ELECADD-2\E006.dwg LAYOUT NAME: E006 PRINTED: Monday, May 15, 2023 - 9:17am USER: AVilson



MCC 10B FRONT ELEVATION

NOT TO SCALE

ELECTRICAL CHARACTERISTICS

GE 8000 LINE MOTOR CONTROL
 VOLTS: 480
 PHASE: 3
 WIRE: 3
 MAIN BUS RATING: 600A
 AIC RATING: 65,000 AMPERE SYMMETRICAL

DEMO MOTOR STARTERS, MOTORS, CONTROL STATIONS, CONDUITS, WIRING AND SENSORS. COORDINATE WITH OWNER TO IDENTIFY EQUIPMENT OF SALVAGEABLE VALUE TO BE TURNED OVER TO OWNER.



JOHN T. HICKERSON
 HEADWORKS
 BARSCREEN REPLACEMENT

EL PASO WATER

701 EXECUTIVE CENTER BLVD
 EL PASO, TEXAS 79936

KEY PLAN

VERIFY SCALES

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NO.	DATE	DESCRIPTION
1	05-16-2023	ADDENDUM #2

ISSUING OFFICE: EL PASO PROJECT NO: 3065.21

ELECTRICAL
 MCC-10B
 ONE-LINE DIAGRAM
 DEMO-SHEET

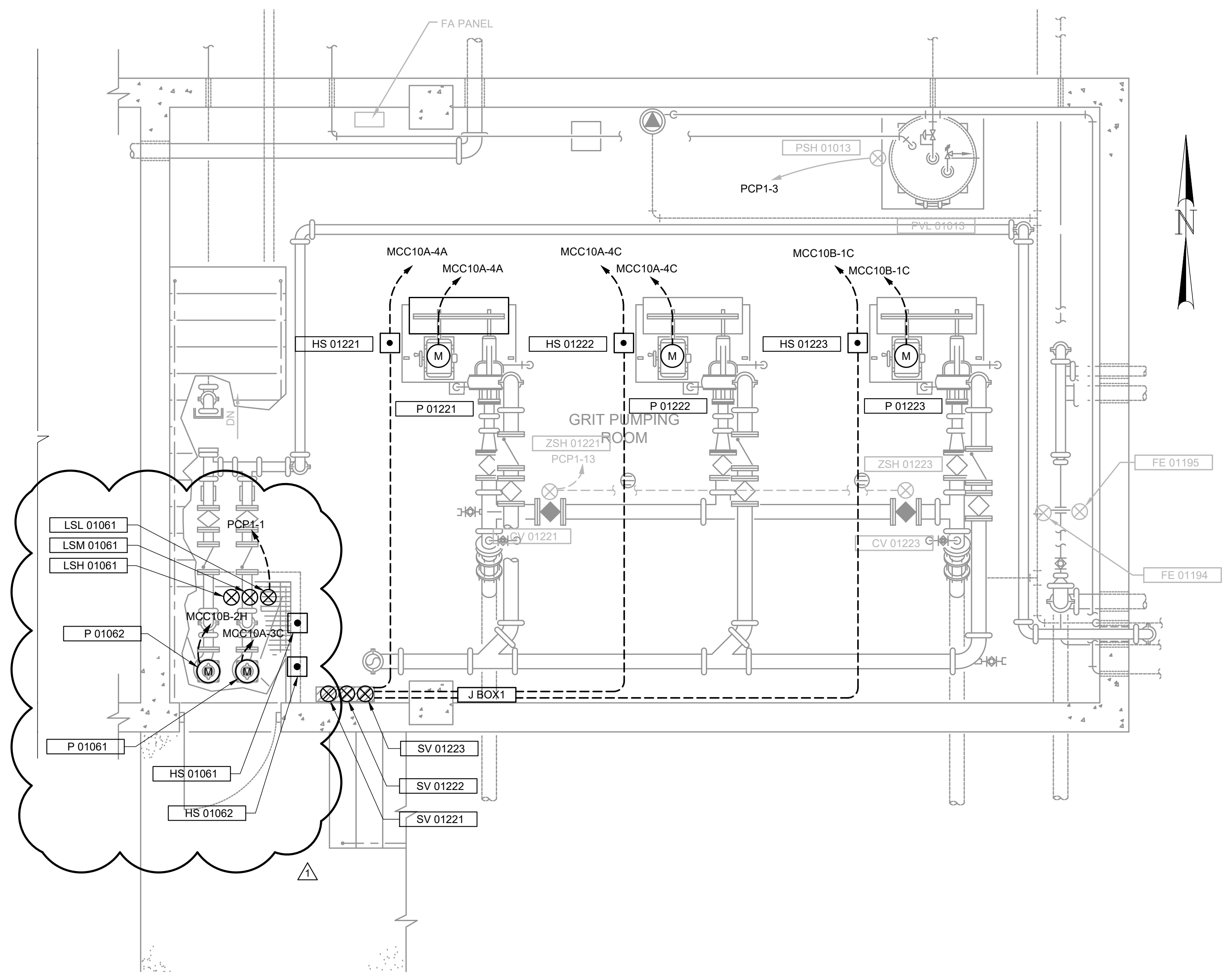


**JOHN T. HICKERSON
HEADWORKS
BARSREEN REPLACEMENT**

EL PASO WATER

701 EXECUTIVE CENTER BLVD
EL PASO, TEXAS 79936

A GRIT PUMPING ROOM POWER PLAN
SCALE: 3/8"=1'-0"



KEY PLAN

VERIFY SCALES

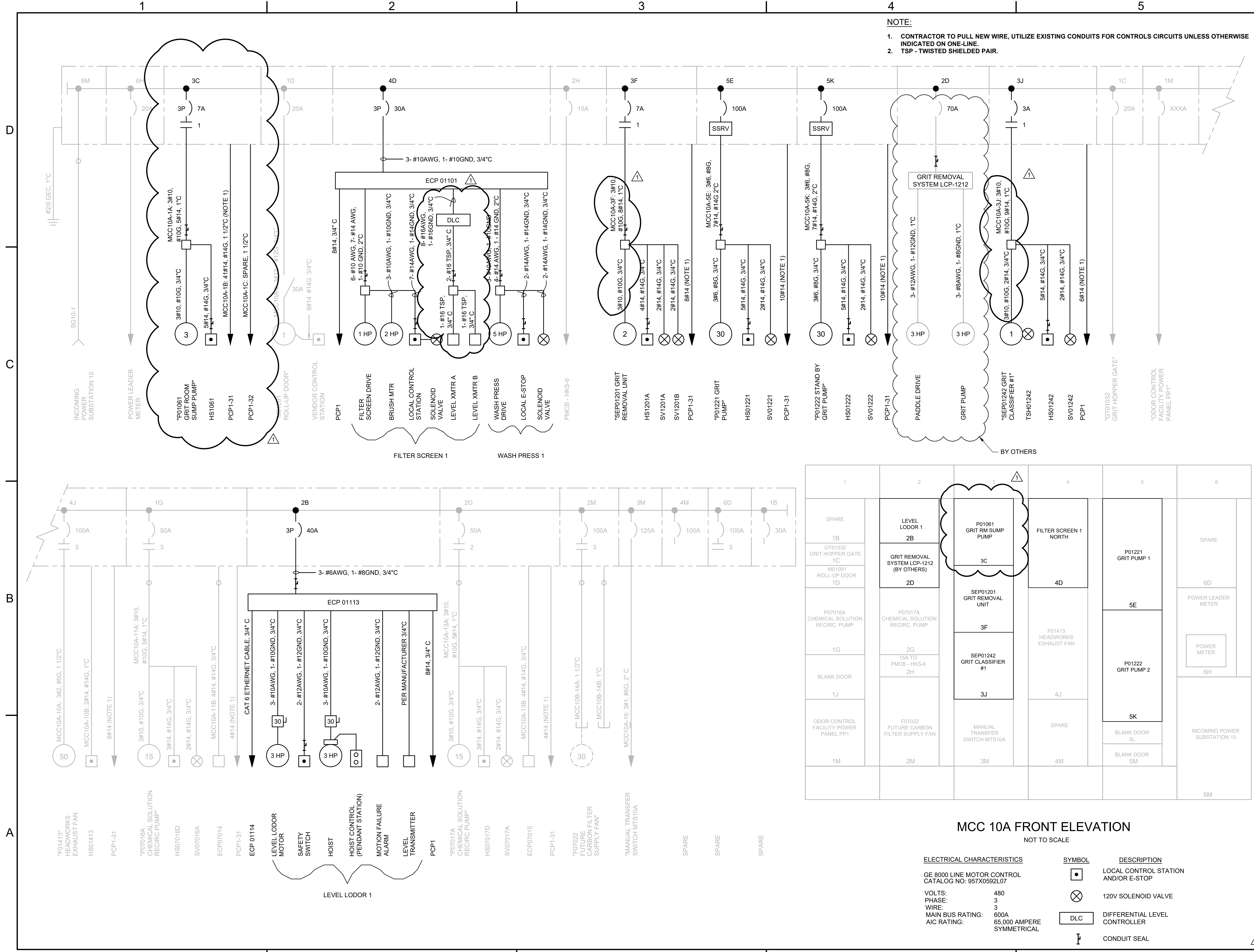
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NO	DATE	DESCRIPTION
1	05-16-2023	ADDENDUM #2

ISSUING OFFICE: EL PASO PROJECT NO: 3065.21

**ELECTRICAL
GRIT PUMPING ROOM
POWER PLAN**

FILE NAME: A:\2021\3065.21\03_DSGND1_DWG\150_ELEC\ADD-2\E009-3065.dwg LAYOUT NAME: E009 PRINTED: Monday, May 15, 2023 - 9:18am USER: AWilson



NOTE:
 1. CONTRACTOR TO PULL NEW WIRE, UTILIZE EXISTING CONDUITS FOR CONTROLS CIRCUITS UNLESS OTHERWISE INDICATED ON ONE-LINE.
 2. TSP - TWISTED SHIELDED PAIR.

1	2	3	4	5	6
SPARE	LEVEL LODOR 1	P01061 GRIT RM SUMP PUMP	FILTER SCREEN 1 NORTH	P01221 GRIT PUMP 1	SPARE
1B	GRIT REMOVAL SYSTEM LCP-1212 (BY OTHERS)	3C	4D	5E	6D
GT01032 GRIT HOPPER GATE		SEP01201 GRIT REMOVAL UNIT			POWER LEADER METER
M01091 ROLL-UP DOOR		3F			POWER METER
P07016A CHEMICAL SOLUTION RECIRC. PUMP	P07017A CHEMICAL SOLUTION RECIRC. PUMP	SEP01242 GRIT CLASSIFIER #1	F01413 HEADWORKS EXHAUST FAN	P01222 GRIT PUMP 2	
1G	2G	3J	4J	5K	6H
BLANK DOOR	15A TO PMCB - HKS-6				
1J	2H				
ODOR CONTROL FACILITY POWER PANEL PP1	F07022 FUTURE CARBON FILTER SUPPLY FAN	MANUAL TRANSFER SWITCH MTS10A	SPARE	BLANK DOOR 5L	INCOMING POWER SUBSTATION 10
1M	2M	3M	4M	5M	6M
				BLANK DOOR 5M	

MCC 10A FRONT ELEVATION
 NOT TO SCALE

ELECTRICAL CHARACTERISTICS	SYMBOL	DESCRIPTION
GE 8000 LINE MOTOR CONTROL CATALOG NO: 957X0592L07	□	LOCAL CONTROL STATION AND/OR E-STOP
VOLTS: 480	⊗	120V SOLENOID VALVE
PHASE: 3	DLC	DIFFERENTIAL LEVEL CONTROLLER
WIRE: 3	∩	CONDUIT SEAL
MAIN BUS RATING: 600A		
AIC RATING: 65,000 AMPERE SYMMETRICAL		

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05/16/2023
 PARKHILL SMITH & COOPER, INC. F-950
 STATE OF TEXAS
 MARCELINO N. TRUJILLO
 89806
 LICENSED ELECTRICAL ENGINEER
 Member N. Trujillo

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HEADWORKS
BARSREEN REPLACEMENT

EL PASO WATER

701 EXECUTIVE CENTER BLVD
 EL PASO, TEXAS 79936

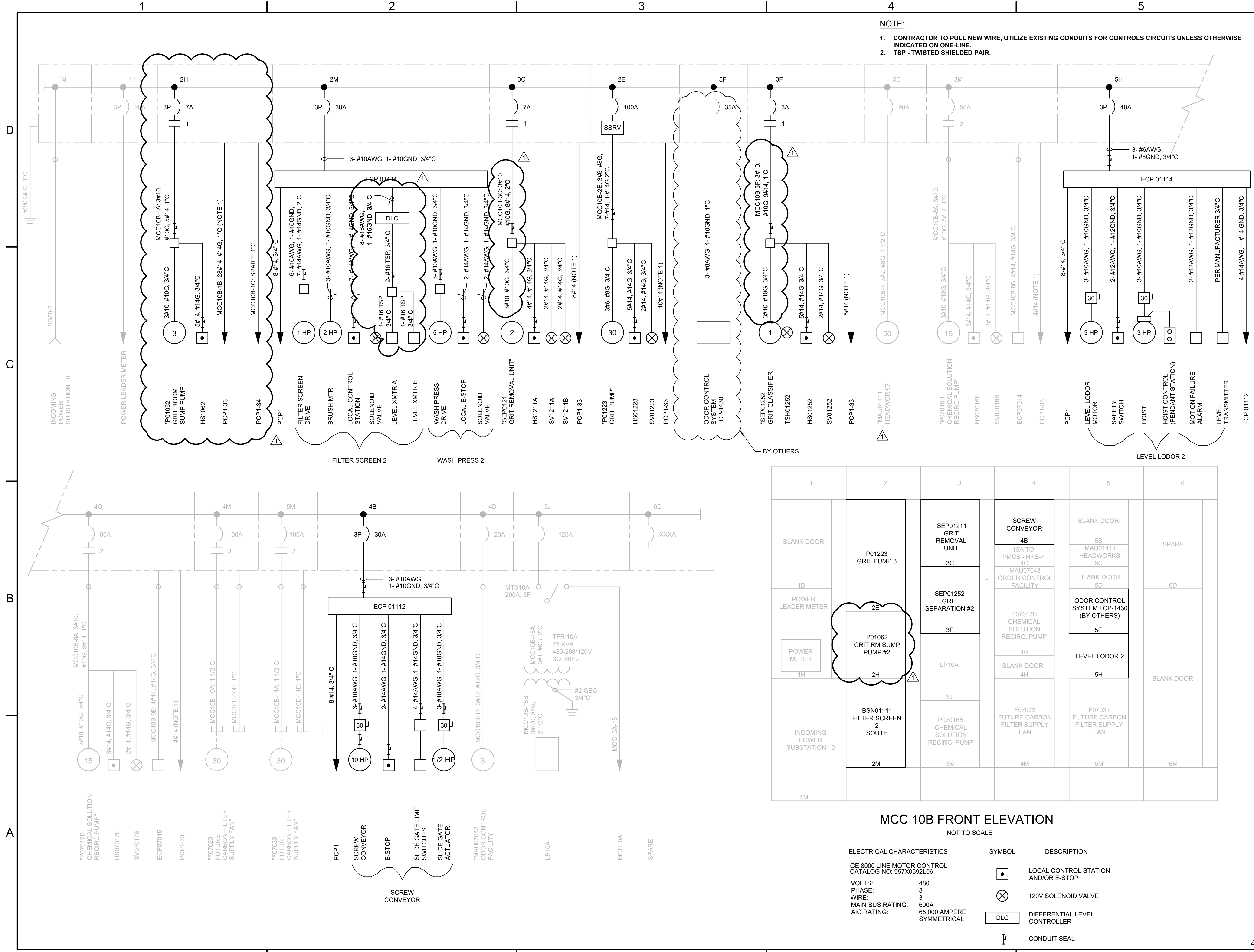
KEY PLAN

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1	05-16-2023	ADDENDUM #2
NO	DATE	DESCRIPTION
ISSUING OFFICE: EL PASO	PROJECT NO:	3065.21

ELECTRICAL
MCC-10A
ONE-LINE DIAGRAM

E013



JOHN T. HICKERSON HEADWORKS BARSREEN REPLACEMENT

EL PASO WATER

701 EXECUTIVE CENTER BLVD
 EL PASO, TEXAS 79936

KEY PLAN

VERIFY SCALES
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NO	DATE	DESCRIPTION
1	05-16-2023	ADDENDUM #2

ISSUING OFFICE: EL PASO PROJECT NO: 3065.21

ELECTRICAL MCC-10B ONE-LINE DIAGRAM