



AUGUST 21, 2024

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CONTRACT NO. 1799

**SOLIDS THICKENING AND DEWATERING
IMPROVEMENTS**

ADDENDUM NO. 1

All bidders bidding **Contract No. 1799** shall read and take note of this **Addendum No. 1**. The Procurement Documents for **Contract No. 1799 SOLIDS THICKENING AND DEWATERING IMPROVEMENTS** are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1799 Addendum No. 1

The Acknowledgement attached to **Addendum No. 1** is to be signed and returned immediately via email to **Kathleen P. Uniatowski** at kathleen.uniatowski@alcosan.org and acknowledged with Bidder's Proposal.

Kimberly Kennedy, P.E.

Director – Engineering and Construction

ACKNOWLEDGEMENT OF

CONTRACT NO. 1799

SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

ADDENDUM NUMBER 1

FIRM NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

AUGUST 21, 2024

CONTRACT NO. 1799

SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

ADDENDUM NO. 1

ADDENDUM No. 1

ALLEGHENY COUNTY SANITARY AUTHORITY
PITTSBURGH, PENNSYLVANIA

CONTRACT NO. 1799
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS PROJECT

AUGUST 21, 2024

BID OPENING DATE
FRIDAY, SEPTEMBER 6, 2024
11:00 A.M.

This Addendum No. 1 consists of 28 pages and the following attachments:

Attachment A – Pre-Bid Meeting Minutes (August 7, 2024) – 8 ½” x 11” (3 pages)
Attachment B – Pre-Bid Meeting Attendance Sheet – 8 ½” x 11” (2 pages)
Attachment C – ATTACHMENT 2 – SECTION 01 71 16 – MANUFACTURERS’ ON-SITE
TRAINING SCHEDULE – 8 ½” x 11” (2 pages)
Attachment D – Section 40 61 93 Attachment, I/O Lists – 8 ½” x 11” (58 pages)
Attachment E – Section 40 70 00 Attachment, Instrument List – 11” x 17” (6 pages)
Attachment F – Addendum No. 1 Drawings – 22” x 34” (14 pages)
Attachment G – Cable Schedule – Excel File

ATTENTION BIDDERS

The following additions to and modifications of the Contract Documents will be included in and become part of the Contract for the Allegheny County Sanitary Authority (ALCOSAN) –

Solids Thickening and Dewatering Improvements Project. Bidders are instructed to take the following into account in rendering any Bid for this work.

The Bidder is responsible for verifying that he/she has received and reviewed all of the pages of the Contract Documents as well as all of the pages and attachments of all addenda. The Bidder shall verify all pages with the table of contents in the Contract Documents and the first page of all Addenda. Receipt of this Addendum No. 1 must be noted on the Bid Form. These items modify the portions of the documents specifically noted; all other provisions of the Contract Documents shall remain in effect.

1. PRE-BID MEETING

- 1.1 A Pre-Bid Meeting was held at ALCOSAN at 9:00 a.m., Prevailing Time, on August 7, 2024, in the auditorium of the O&M Building, located at 3300 Preble Avenue, Pittsburgh, PA 15233. Meeting minutes and the attendance sheet are attached (Attachments A and B) to this Addendum No. 1. A site visit to observe the Dewatering Building followed the meeting.

2. CHANGES TO THE SPECIFICATIONS

- 2.1 In Specification Section 01 71 16, "Manufacturer Acceptance of Conditions," **DELETE** "ATTACHMENT 2 – SECTION 01 71 16 – MANUFACTURERS' ON-SITE TRAINING SCHEDULE" in its entirety and **REPLACE** with the attached "ATTACHMENT 2 – SECTION 01 71 16 – MANUFACTURERS' ON-SITE TRAINING SCHEDULE" (Attachment C).
- 2.2 In Specification Section 08 71 00, "Door Hardware", Para. 3.8.A, **DELETE** reference to doors "960-100A, 960-101A" and **REPLACE** with "137."
- 2.3 In Specification Section 08 71 00, "Door Hardware", Para. 3.8.B, **DELETE** reference to doors "960-100A, 960-101A" and **REPLACE** with "138."
- 2.4 In Specification Section 22 33 00, "Electric, Domestic Water Heaters," Para. 3.5.A, **DELETE** last sentence in its entirety and **REPLACE** with "Training to be a one-hour session."
- 2.5 In Specification Section 23 34 16, "Centrifugal HVAC Fans," Para. 3.9.A, **ADD** "Training to be a one-hour session." to the end of the paragraph.
- 2.6 In Specification Section 23 34 23, "HVAC Power Ventilators," Para. 3.9.A, **ADD**

- “Training to be a one-hour session.” to the end of the paragraph.
- 2.7 In Specification Section 23 81 26, “Split System Air Conditioners,” Para. 3.5.A, **ADD** “Training to be a one-hour session.” to the end of the paragraph.
- 2.8 In Specification Section 26 22 00, “Low Voltage Transformers,” after Para. 3.5.A., **ADD** the following new paragraph:
- “3.6 DEMONSTRATION
- A. Engage a factory-authorized service representative to train Owner’s maintenance personnel to adjust, operate and maintain the low-voltage transformers. Training to be a one-hour session.”
- 2.9 In Specification Section 26 24 16, “Panelboards,” after Para. 3.4.A, **ADD** the following new paragraph:
- “3.5 DEMONSTRATION
- A. Engage a factory-authorized service representative to train Owner’s maintenance personnel to adjust, operate and maintain the panelboards. Training to be a one-hour session.”
- 2.10 In Specification Section 26 29 23, “Variable Frequency Motor Controllers,” Para. 3.9.A, **ADD** “Operations training to be a one-hour session and maintenance training to be two sessions at 2 hours per session for a total of 5 hours. Training session to be coordinated with the first set of pumps being started up and commissioned.” to the end of the paragraph.
- 2.11 In Specification Section 40 05 07, “Hangers and Supports for Process Piping,” Para. 2.3.A.1, **ADD** “inside tanks” after “Submerged, buried,”.
- 2.12 In Specification Section 40 05 07, “Hangers and Supports for Process Piping,” Para. 2.3.A.3. **DELETE** paragraph in its entirety and **REPLACE** with the following:
- “Other locations: Hot-dipped galvanized steel.”
- 2.13 In Specification Section 40 05 19, “Ductile Iron Process Pipe,” Para. 2.1.B.3.b, **DELETE** paragraph in its entirety and **REPLACE** with the following:
- “b. Assembly bolts: Hex head machine bolts with hexagon nuts per ANSI B18.2. Exposed process piping to have ASTM A307 carbon steel bolts and ASTM A563, Grade A carbon steel nuts. Buried and submerged process piping to have 316 SS bolts and 317 SS nuts. Course threads conforming to ANSI B1.1. Bolt length: 1/8” to 5/8” protrusion from nut after torquing.”

- 2.14 In Specification Section 40 05 24, “Steel Process Pipe,” Para. 1.9.A. ABOVE-GRADE STEEL PIPE SCHEDULE, **ADD** “(2)” next to the first No in the Insulation and Heat Tracing Required Column and **ADD** the following note after Note (1):

“(2) Insulate the EWH(HOT) piping located up to 7-ft above the floor.”

- 2.15 In Specification Section 40 05 51, “Common Requirements for Process Valves,” after Para. 1.6.F., **DELETE** the table at the end of the paragraph and **REPLACE** with the following table:

Equipment	Installation & Inspection	Acceptance & Performance Testing	Facility Startup	O & M Instruction
480 Volt Electric Actuators	2 Trips, 1 Day per Trip	1 Trip, 2 Days	1 Trip, 2 Days	1 Trip, 2 Hours*
120 Volt Electric Actuators	1 Trip, 1 Day	1 Trip, 2 Days	1 Trip, 2 Days	1 Trip, 2 Hours*
Pneumatic Actuators	2 Trips, 1 Day per Trip	1 Trip, 2 Days	1 Trip, 2 Days	1 Trip, 2 Hours*
Pneumatic Limit Switches	2 Trips, 1 Day per Trip	1 Trip, 2 Days	1 Trip, 2 Days	-
Check Valve Limit Switches	9 Trips, 0.5 Days per Trip	-	-	-
Knife Gate Valve Limit Switches	1 Trip, 1 Day	2 Trips, 1 Day per Trip	-	-
Solenoid Valves	2 Trip, 0.5 Days per Trip	-	-	-

*Provide two, one hour training sessions for maintenance and electrical personnel.

- 2.16 In Specification Section 40 42 13, “Process Piping Insulation,” Para. 3.3.A.1 **DELETE** paragraphs in their entirety and **REPLACE** with the following:

- “1. Effluent Water and Protected Water Piping:
 - a. Service: EWH, EFW, & PRW.
 - b. Type: P-1.
 - c. Thickness: 1-inch for all pipe sizes.
2. Hot Effluent Water

- a. Service: EWH(HOT).
 - b. Type: P-2.
 - c. Thickness: 1-inch for all pipe sizes.
 - d. Limits: Up to 7-ft above the floor.”
- 2.17 In Specification Section 40 61 00, “Process Control and Enterprise Management Systems General Provisions,” Para. 1.5.C.1., **DELETE** “non-listed” in the first sentence.
- 2.18 In Specification Section 40 61 26, “Process Control System Training,” after Para. 3.2.A., **DELETE** the table at the end of the paragraph and **REPLACE** with the following table:

Description	Course Duration (Hours)	Number of Times Course to be Given	Intended Audience
<u>Manufacturer's Training</u>			
Programmable Logic Controller (PLC) Basic	8	1	Maintenance, Administrator
Programmable Logic Controller (PLC) Advanced	16	1	Maintenance, Administrator
<u>Onsite Training</u>			
Installed Control System	2	1	Maintenance, Administrator
PLC Hardware/Software	2	1	Maintenance
Instrument Manufacturer Training (Multi-Parameter Analyzer Transmitters)	1	1	Maintenance
Instruments	2	1	Maintenance
Instruments - Operator Familiarity	2	1	Operations

- 2.19 In Specification Section 40 61 93, “Process Control System Input/Output List,” **ADD** the attached I/O Lists (Attachment D) to the end of the section.
- 2.20 In Specification Section 40 70 00, “Instrumentation for Process Systems,” **ADD** the attached Instrument List (Attachment E) to the end of the section.
- 2.21 In Specification Section 40 71 13, “Magnetic Flow Meters,” Para. 2.2.D.1, **ADD** the following:
- “c. Waste Activated Sludge.”

- 2.22 In Specification Section 41 12 13.36, “Screw Bulk Material Conveyors,” Para. 3.6.C.4.a, b, and c, **DELETE** paragraphs in their entirety and **REPLACE** with the following:
- “a. Minimum Time on Site: One trip, two sessions, 2 hours per session for maintenance training of mechanical, electrical, and instrumentation personnel for a total of 4 hours.
 - b. Instruct representatives of the Owner on proper maintenance of the process, electrical, and instrumentation equipment provided under this Section. Provide agenda and utilize approved O&M Manual.
 - c. Training will need to be conducted during normal Monday through Friday, 7:30 a.m. to 3:30 p.m. workdays.”
- 2.23 In Specification Section 43 23 13.19, “Self-Priming Centrifugal Pumps,” Para. 3.5.C.4.a, b, and c, **DELETE** paragraphs in their entirety and **REPLACE** with the following:
- “a. Minimum Time on Site: One trip, two sessions, 1 hour per session for maintenance training of mechanical, electrical, and instrumentation personnel for a total of 2 hours.
 - b. Instruct representatives of the Owner on proper maintenance of the process, electrical, and instrumentation equipment provided under this Section. Provide agenda and utilize approved O&M Manual.
 - c. Training will need to be conducted during normal Monday through Friday, 7:30 a.m. to 3:30 p.m. workdays.”
- 2.24 In Specification Section 43 23 35, “Recessed Impeller Pumps,” Para. 3.6.C.4.a, b, and c, **DELETE** paragraphs in their entirety and **REPLACE** with the following:
- “a. Minimum Time on Site: One trip, two sessions, 1 hour per session for maintenance training of mechanical, electrical, and instrumentation personnel for a total of 2 hours.
 - b. Instruct representatives of the Owner on proper maintenance of the process, electrical, and instrumentation equipment provided under this Section. Provide agenda and utilize approved O&M Manual.
 - c. Training will need to be conducted during normal Monday through Friday, 7:30 a.m. to 3:30 p.m. workdays.”
- 2.25 In Specification Section 43 23 37, “Screw Impeller Pumps,” Para. 3.6.C.4.a, b, and c,

DELETE paragraphs in their entirety and **REPLACE** with the following:

- “a. Minimum Time on Site: One trip, two sessions, 1 hour per session for maintenance training of mechanical, electrical, and instrumentation personnel for a total of 2 hours.
- b. Instruct representatives of the Owner on proper maintenance of the process, electrical, and instrumentation equipment provided under this Section. Provide agenda and utilize approved O&M Manual.
- c. Training will need to be conducted during normal Monday through Friday, 7:30 a.m. to 3:30 p.m. workdays.”

2.26 In Specification Section 43 23 57, “Progressing Cavity Pumps,” Para. 3.6.C.4.a, b, and c, **DELETE** paragraphs in their entirety and **REPLACE** with the following:

- “a. Minimum Time on Site: One trip, two sessions, 1 hour per session for maintenance training of mechanical, electrical, and instrumentation personnel for a total of 2 hours.
- b. Instruct representatives of the Owner on proper maintenance of the process, electrical, and instrumentation equipment provided under this Section. Provide agenda and utilize approved O&M Manual.
- c. Training will need to be conducted during normal Monday through Friday, 7:30 a.m. to 3:30 p.m. workdays.”

2.27 In Specification Section 43 23 58, “Rotary Lobe Pumps,” Para. 3.6.C.4.a, b, and c, **DELETE** paragraphs in their entirety and **REPLACE** with the following:

- “a. Minimum Time on Site: One trip, one session, 1 hour per session for training one shift of operational personnel and two sessions, 4 hours per session for maintenance training of mechanical, electrical, and instrumentation personnel for total of 9 hours.
- b. Instruct representatives of the Owner on proper operation and maintenance of the process, electrical, and instrumentation equipment provided under this Section. Provide agenda and utilize approved O&M manuals.
- c. Training will need to be conducted during normal Monday through Friday, 7:30 a.m. to 3:30 p.m. workdays.”

2.28 In Specification Section 43 41 13, “Welded Stainless Steel Tanks,” Para. 3.7.C.4.a, b, and c, **DELETE** paragraphs in their entirety and **REPLACE** with the following:

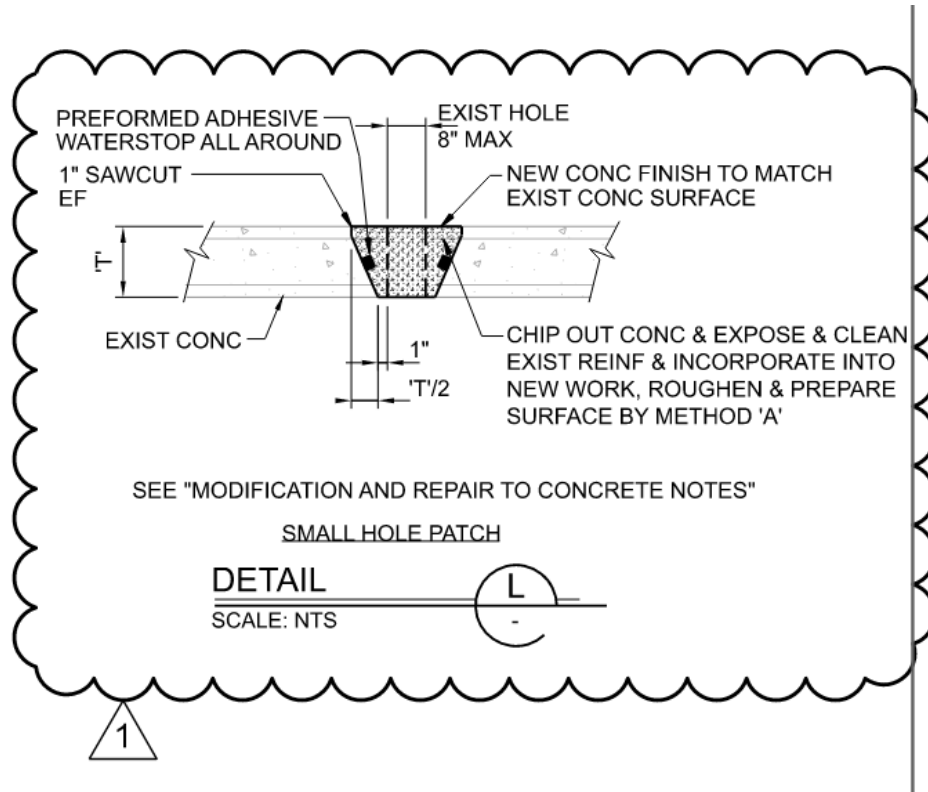
- “a. No training instructions required.”

- 2.29 In Specification Section 43 41 43, “High Density Polyethylene Tanks,” Para. 3.7.C.4.a, b, and c, **DELETE** paragraphs in their entirety and **REPLACE** with the following:
- “a. No training instructions required.”
- 2.30 In Specification Section 43 41 45, “Fiberglass Reinforced Plastic Tanks,” Para. 3.7.C.4.a, b, and c, **DELETE** paragraphs in their entirety and **REPLACE** with the following:
- “a. No training instructions required.”
- 2.31 In Specification Section 46 24 23, “Inline Grinders,” Para. 3.6.C.4.a, b, and c, **DELETE** paragraphs in their entirety and **REPLACE** with the following:
- “a. Minimum Time on Site: One trip, two sessions, 4 hours per session for maintenance training of mechanical, electrical, and instrumentation personnel for a total of 8 hours.
- b. Instruct representatives of the Owner on proper maintenance of the process, electrical, and instrumentation equipment provided under this Section. Provide agenda and utilize approved O&M Manual.
- c. Training will need to be conducted during normal Monday through Friday, 7:30 a.m. to 3:30 p.m. workdays.”
- 2.32 In Specification Section 46 33 33, “Polymer Mixing Units,” Para. 3.6.C.4.a, b, and c, **DELETE** paragraphs in their entirety and **REPLACE** with the following:
- “a. Minimum Time on Site: One trip, one session, 1 hour per session for training one shift of operational personnel and two sessions, 4 hour per session for maintenance training of mechanical, electrical, and instrumentation personnel for total of 9 hours.
- b. Instruct representatives of the Owner on proper operation and maintenance of the process, electrical, and instrumentation equipment provided under this Section. Provide agenda and utilize approved O&M manuals.
- c. Training will need to be conducted during normal Monday through Friday, 7:30 a.m. to 3:30 p.m. workdays.”
- 2.33 In Specification Section 46 41 24, “Vertical Shaft Mixers and Flocculators,” Para. 3.6.C.4.a, b, and c, **DELETE** paragraphs in their entirety and **REPLACE** with the following:
- “a. Minimum Time on Site: One trip, two sessions, 1 hour per session for

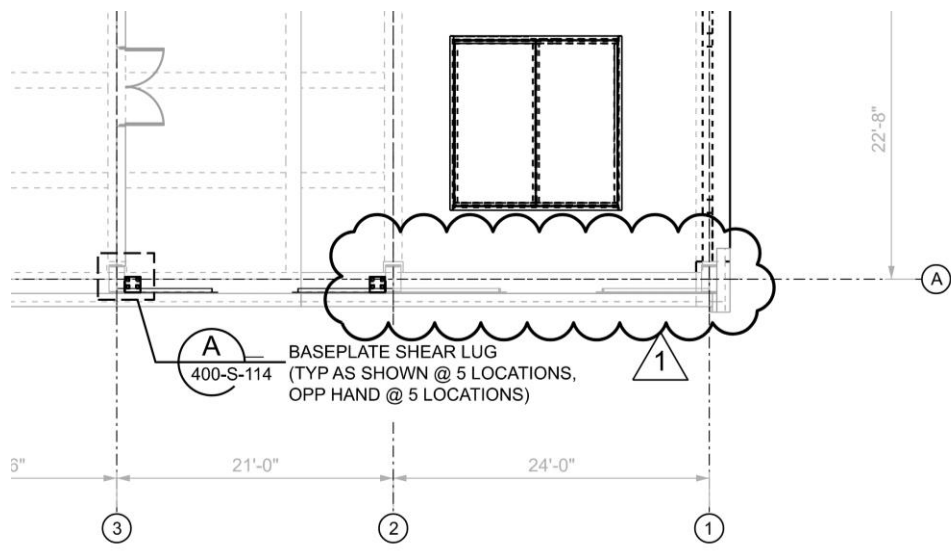
- maintenance training of mechanical, electrical, and instrumentation personnel for a total of 2 hours.
- b. Instruct representatives of the Owner on proper maintenance of the process, electrical, and instrumentation equipment provided under this Section. Provide agenda and utilize approved O&M Manual.
 - c. Training will need to be conducted during normal Monday through Friday, 7:30 a.m. to 3:30 p.m. workdays.”
- 2.34 In Specification Section 46 71 17, “Enclosed Gravity Belt Thickeners,” Para. 2.1.A, **ADD** the following sentence to the end of the paragraph.
- “The GBTs will be mounted 12-inches above the floor high point on concrete equipment pads that incorporate 1-inch of grout for leveling.”
- 2.35 In Specification Section 46 71 17, “Enclosed Gravity Belt Thickeners,” Para. 2.2.N.4, **ADD** the following paragraph after paragraph d.:
- “e. Provide a 9-inch-high discharge hopper/chute extension that will bolt to the top of the standard hopper height and will bolt to the GBT frame. Extension to be 10-gauge, 316 SS, and watertight similar to the standard hopper. Extension will increase the overall volume of the hopper and lower the 10-in discharge flange closer to the floor.”
- 2.36 In Specification Section 46 71 17, “Enclosed Gravity Belt Thickeners,” Para. 3.6.C.4.a, **DELETE** paragraph in its entirety and **REPLACE** with “Minimum Time on Site: Four trips, four sessions, 8 hours per session for training four separate operational shifts and four sessions, 8 hours per session days for training maintenance, electrical, and instrumentation personnel for a total of 64 hours.”

3. CHANGES TO THE DRAWINGS

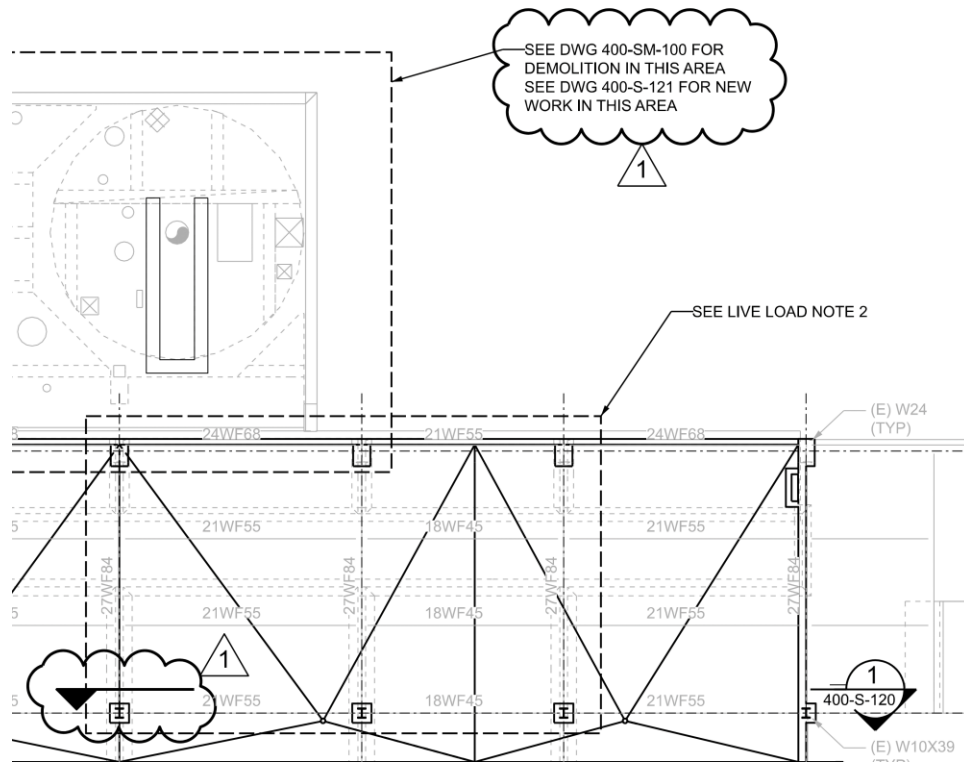
3.1 On Sheet 000-S-002, **ADD** the following Detail:



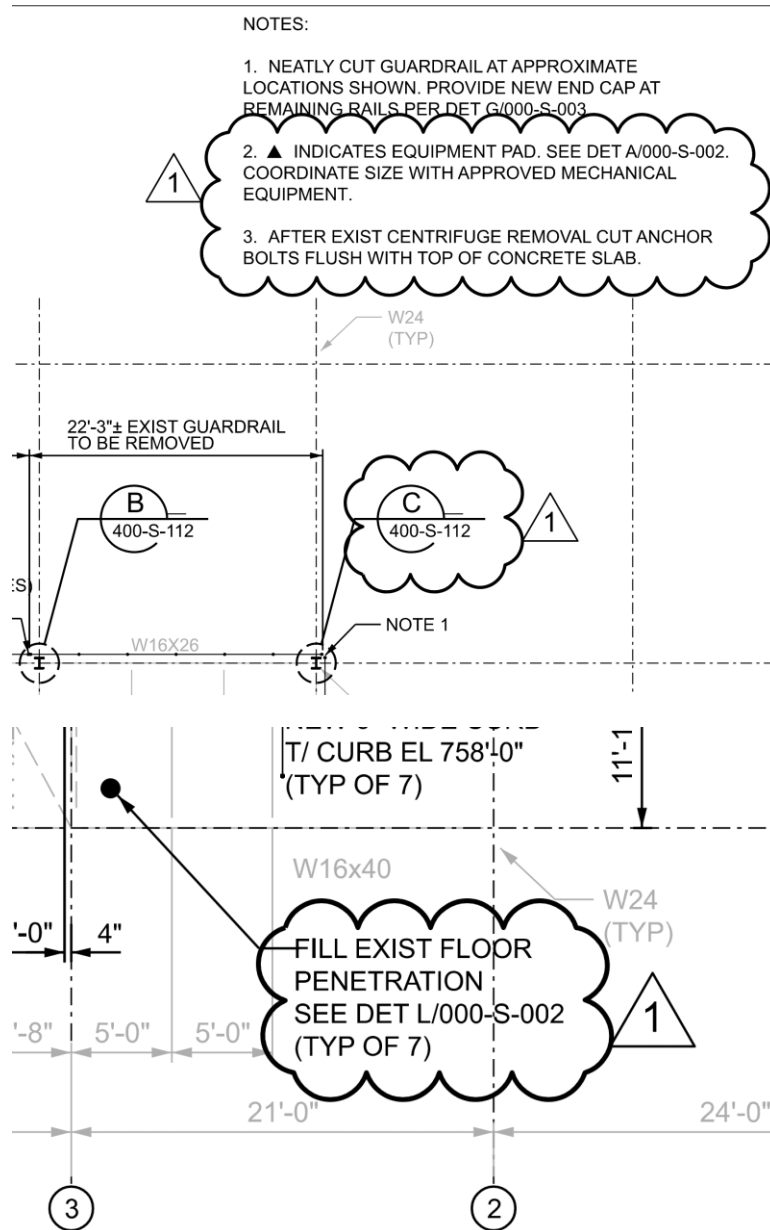
3.2 On Sheet 400-S-102, **UPDATE** shear lug location per the snip below:



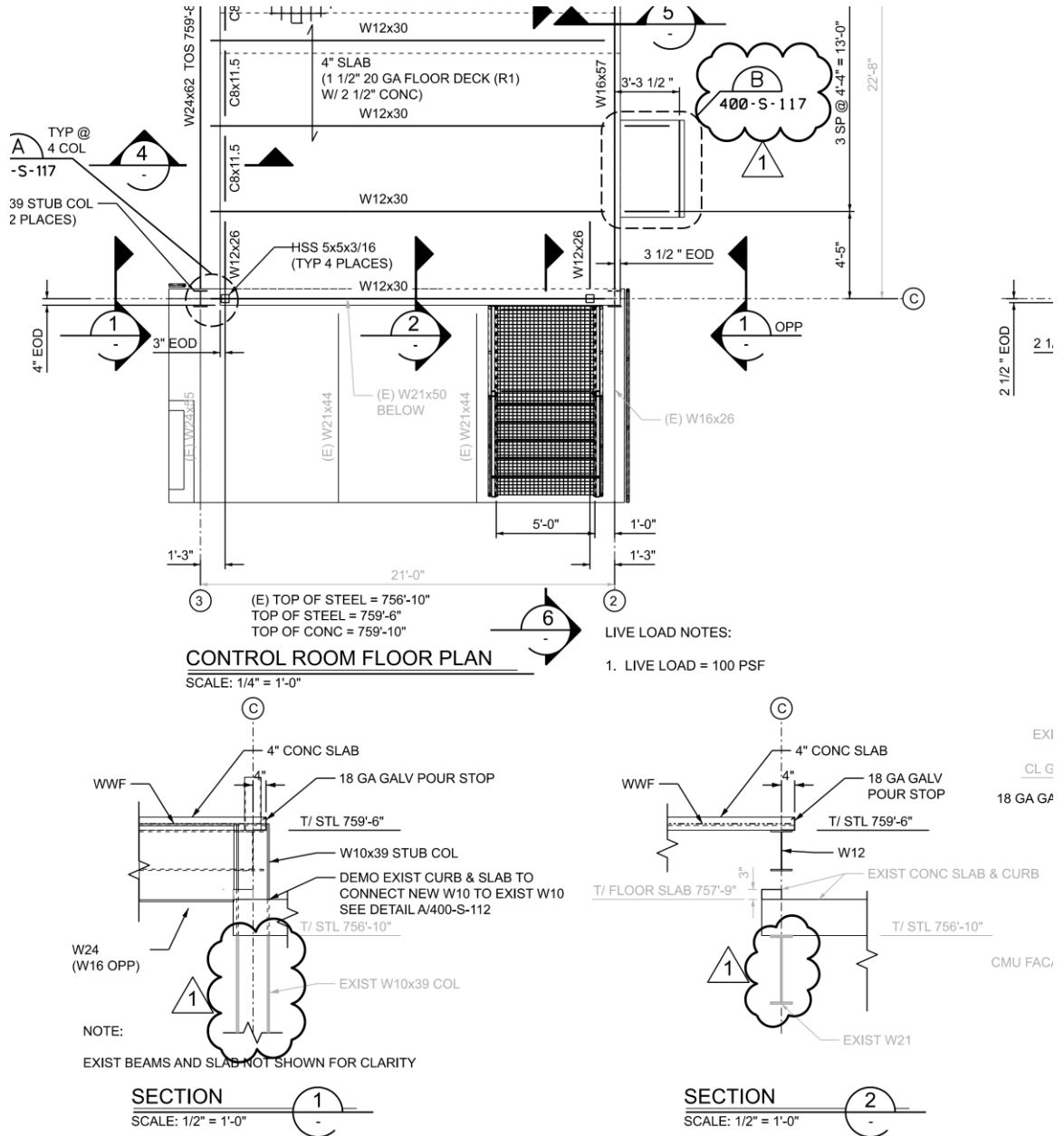
3.3 On Sheet 400-S-103, **UPDATE** per modifications shown below:



3.4 On Sheet 400-S-104, **UPDATE** per modifications shown below:



3.5 On Sheet 400-S-116, **UPDATE** per modifications shown below:



-
- NOTCH DECK AS REQD TO FIT AROUND PLATE
- 1
- (2) 3/4" Ø BOLTS EACH END
- 3/16
- 3/16
- PL 3/8"x6 1/2"
- 6"
- 3"
- 3"
- PL 3/8" EACH SIDE OF W16
- 3/16
- 3/16
- 2 SIDES (TYP)
- W12x30
- W16
- W12x26
- SECTION 7
- SCALE: 1 1/2" = 1'-0"

- August 21, 2024**

- 3.15 On Sheet 400-A-106, General Note A, **DELETE** “400-A-102” and **REPLACE** with “000-A-001.”
- 3.16 On Sheet 400-A-106, all five plan notes, **DELETE** “AVOID SUPPORTING THE SUPPORT DUCT DIRECTLY ON OF CAP AND RESET ON THE STRUCTURAL SUPPORTS BELOW (TYP).” and **REPLACE** with “DO NOT SUPPORT DUCT DIRECTLY ON CAP. SUPPORT DUCT ON STRUCTURAL STEEL FRAMING BELOW (TYP).”
- 3.17 On Sheet 400-A-107, General Note A, **DELETE** “400-A-102” and **REPLACE** with “000-A-001.”
- 3.18 On Sheet 400-A-107, Detail F, **ADD** “CONTRACTOR TO PROVIDE ROOFING, FLASHING, AND CRICKETS TO MATCH EXISTING CONDITIONS AND PREVENT WATER INFILTRATION INTO THE BUILDING.”
- 3.19 On Sheet 000-M-003, PROCESS FLOW STREAM legend, **ADD** “EWH(HOT) HOT HIGH PRESSURE EFFLUENT WATER” after “EWH HIGH PRESSURE EFFLUENT WATER.”
- 3.20 On Sheet 000-M-003, PIPE MATERIALS legend, **ADD** “HSE HOSE” before “MHS METAL HOSE.”
- 3.21 On Sheet MD-002, **DELETE** Note 2 on Detail D in its entirety and **REPLACE** with the following:

“2. PROVIDE CHANNEL STRUT FRAME SUPPORT SYSTEM FOR MOUNTING EQUIPMENT. REFER TO SPECIFICATION SECTION 40 05 07 FOR MATERIALS.”
- 3.22 On Sheet MD-002, **DELETE** Note 4 on Detail D in its entirety and **REPLACE** with the following:

“4. PROVIDE PUMP SEAL WATER VARIABLE AREA FLOW METER IN ACCORDANCE WITH SPECIFICATION SECTION 40 71 43.”
- 3.23 On Sheet 400-M-011, shift PBV165-400 and 3” x 1-1/2” reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV014-400 on 1” EWH to Slide Gate 13. Also **ADD** ball valve symbol just upstream of SOV021-400 on 1” EWH to Sludge Screw Conveyor No. 1.
- 3.24 On Sheet 400-M-012, shift PBV167-400 and 3” x 1-1/2” reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV015-400 on 1” EWH to Slide Gate 23. Also **ADD** ball valve symbol just upstream of SOV022-400 on 1” EWH to Sludge Screw Conveyor No. 2.

- 3.25 On Sheet 400-M-013, shift PBV169-400 and 3" x 1-1/2" reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV016-400 on 1" EWH to Slide Gate 33. Also **ADD** ball valve symbol just upstream of SOV023-400 on 1" EWH to Sludge Screw Conveyor No. 3. **DELETE** "Centrifuge No. 2 HSC002-400" and **REPLACE** with "Centrifuge No. 3 HSC003-400."
- 3.26 On Sheet 400-M-014, shift PBV171-400 and 3" x 1-1/2" reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV017-400 on 1" EWH to Slide Gate 43. Also **ADD** ball valve symbol just upstream of SOV024-400 on 1" EWH to Sludge Screw Conveyor No. 4.
- 3.27 On Sheet 400-M-015, shift PBV173-400 and 3" x 1-1/2" reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV018-400 on 1" EWH to Slide Gate 53. **ADD** ball valve symbol just upstream of SOV022-400 on 1" EWH to Sludge Screw Conveyor No. 5. Also **DELETE** "SOV022-400" and **REPLACE** with "SOV025-400."
- 3.28 On Sheet 400-M-016, shift PBV175-400 and 3" x 1-1/2" reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV019-400 on 1" EWH to Slide Gate 63. Also **ADD** ball valve symbol just upstream of SOV026-400 on 1" EWH to Sludge Screw Conveyor No. 6.
- 3.29 On Sheet 400-M-017, shift PBV177-400 and 3" x 1-1/2" reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV017-400 on 1" EWH to Slide Gate 73. **ADD** ball valve symbol just upstream of SOV021-400 on 1" EWH to Sludge Screw Conveyor No. 7. **DELETE** "SOV017-400" and **REPLACE** with "SOV020-400." Also **DELETE** "SOV021-400" and **REPLACE** with "SOV027-400."
- 3.30 On Sheet 400-M-018, shift plastic ball valve on 3" polymer feed line and 3" x 1-1/2" reducer further upstream, just outside the supply limits of centrifuge manufacturer.
- 3.31 On Sheet 400-M-035, show the existing seven screened caps on the "CUP-1-1/2"-PRW-SJ" piping as bold to represent new work.
- 3.32 On Sheet 400-MDM-122, **DELETE** "REMOVE PRIMARY SLUDGE GRINDERS, INCLUSIVE OF PIPING, VALVES AND CONTROLS (TYP.);" and **REPLACE** with "REMOVE PRIMARY SLUDGE GRINDERS INCLUSIVE OF PIPING, VALVES, AND CONTROL PANELS (TYP.)". Extend the hatched areas of demolition north of each Primary Sludge Grinder to include the Primary Sludge Grinder Control Panels.
- 3.33 On Sheet 400-MDM-131, **DELETE** "DEMOLISH THE CENTRIFUGE LOCAL CONTROL AND THE ASSOCIATED INSTRUMENT PANEL FOR LOCAL

- CONTROL OF FEED PUMPS (TYP OF 7)” and **REPLACE** with “DEMOLISH THE CENTRIFUGE LOCAL CONTROL, THE ASSOCIATED INSTRUMENT PANEL FOR LOCAL CONTROL OF FEED PUMPS, AND ASSOCIATED EQUIPMENT PAD. REPAIR FLOOR SURFACE PER DETAIL C/000-S-002 (TYP OF 7).”
- 3.34 On Sheet 400-M-106, show the seven bold 3” polymer feed pipes to the right as screened to represent existing as shown on Sheet 400-M-101.
- 3.35 On Sheet 400-M-121, reorientate the two 10” plug valves with chain wheel operators on the 20”x10” filtrate/drain laterals, 90-degrees (similar to the other upstream plug valves).
- 3.36 On Sheet 400-M-123, reorientate the two 10” plug valves with chain wheel operators and with keyed notes 34 and 35 on the 20”x10” filtrate/drain laterals, 90-degrees (similar to the other upstream plug valves with tag numbers 30 thru 33).
- 3.37 On Sheet 400-M-123, reposition arrow associated with keyed note 34 to point to EPV206-400 on the 10” filtrate/drain from GBT No. 5.
- 3.38 On Sheet 400-M-123, **ADD** a 2’x2’ box between cover stiffeners to represent the 2’x2’ Access Hatch designated by the tag number 88 on Thickened Sludge Sump No. 1.
- 3.39 On Sheet 400-M-123, **ADD** a 2’x2’ box between cover stiffeners to represent the 2’x2’ Access hatch designated by the tag number 94 on Thickened Sludge Sump No. 2.
- 3.40 On Sheet 400-M-133, Section 2, reorientate the EPV206-400 & EPV207-400, 10” plug valves with chain wheel operators on the 20”x 10” filtrate/drain laterals, 90-degrees (similar to the upstream EPV205-400).
- 3.41 Sheet 400-M-134, **DELETE** “CORE DRILL SLAB TO ACCOMMODATE 6” PIPE W/MECH SEAL (TYP)” on centrifuge diverter gate and **REPLACE** with “CORE DRILL SLAB TO ACCOMMODATE 8” DRE W/MECH SEAL (TYP).”
- 3.42 Sheet 400-M-134, **DELETE** “1” SOV, GV & BV IN VERTICAL” on EWH piping to diverter gate and **REPLACE** with “1” GLV & BLV IN VERTICAL.”
- 3.43 Sheet 400-M-134, on the GBT, lower the 10” horizontal TWS discharge piping down 0.75 ft, shift the discharge hopper (that attaches to the bottom of the GBT frame) down 0.75 ft to match the horizontal piping, **ADD** a 0.75 ft high discharge hopper extension on top of the standard hopper shown, and **ADD** “GBT DISCHARGE HOPPER W/ 0.75-FT VERTICAL EXTENSION” with arrow pointing to this new hopper configuration.

- 3.44 Sheet 400-M-135, Section 1, **DELETE** “CL EL 762.54” from the GBT discharge piping and **REPLACE** with “CL EL 761.79”.
- 3.45 Sheet 400-M-135, Section 1, on all 3 GBTs, lower all horizontal discharge piping down 0.75 ft, shift the discharge hopper (that attaches to the bottom of the GBT frame) down 0.75 ft to match the horizontal piping and **ADD** a 0.75 ft high discharge hopper extension on top of the standard hopper shown. Also **ADD** “GBT DISCHARGE HOPPER W/ 0.75-FT VERTICAL EXTENSION” with arrow pointing to this new hopper configuration.
- 3.46 Sheet 400-M-135, Section 2, shift all horizontal TWS discharge piping down 0.75 ft., shift the discharge hopper (that attaches to the bottom of the GBT frame) down 0.75 ft to match the horizontal piping and **ADD** a 0.75 ft high discharge hopper extension on top of the standard hopper shown. Also **ADD** “GBT DISCHARGE HOPPER W/ 0.75-FT VERTICAL EXTENSION” with arrow pointing to this new hopper configuration.
- 3.47 On Sheet 400-M-136, Section 1, **DELETE** “1-1/2” CONTINUOUS CENTRATE SAMPLE” and **REPLACE** with “2” CONTINUOUS CENTRATE SAMPLE.”
- 3.48 On Sheet 400-M-136, Section 1, **DELETE** “CIP 2-1/2” EWH-SJ” and **REPLACE** with “CUP 2-1/2” EWH-SJ.”
- 3.49 On Sheet 400-M-136, Section 1, **DELETE** “CUP-1”-EWH-SJ TO SPRAY NOZZLE ON SCREW CONVEYOR INLET” and **REPLACE** with “1” BLV AND CUP-1”-EWH-SJ TO SPRAY NOZZLE ON SCREW CONVEYOR INLET (TYP)”. **ADD** a 1” ball valve at this location.
- 3.50 On Sheet 400-M-136, Section 2, **DELETE** “2-1/2” MOTOR OPERATED BALL VALVE FOR CENTRATE FLUSHING” and **REPLACE** with “2-1/2” MOTOR OPERATED BALL VALVE FOR CENTRIFUGE FLUSHING.”
- 3.51 On Sheet 000-E-002, ABBREVIATIONS, **ADD** “AF ADJUSTABLE FREQUENCY” after “AC ALTERNATING CURRENT.”
- 3.52 On Sheet 701-EDM-001, **DELETE** “REMOVE PUMP AND ASSOCIATED SEAL WATER SOLENOID, E-STOP CONTROL STATION (TYP OF 4)” and **REPLACE** with “DISCONNECT PUMP, MAKE SAFE, AND DEMOLISH ALL ASSOCIATED WIRE BACK TO SOURCE AND DEMOLISH CONDUIT BACK TO PULL BOX (TYP).”
- 3.53 On Sheet 702-EDM-001, **DELETE** “REMOVE PUMP (TYP OF 3)” and **REPLACE** with “DISCONNECT PUMP, MAKE SAFE, AND DEMOLISH ALL ASSOCIATED WIRE BACK TO SOURCE AND DEMOLISH CONDUIT BACK TO PULL BOX (TYP).”

- 3.54 On Sheet 711-EDM-001, **DELETE** “REMOVE PUMP (TYP OF 4)” and **REPLACE** with “DISCONNECT PUMP, MAKE SAFE, AND DEMOLISH ALL ASSOCIATED WIRE BACK TO SOURCE AND DEMOLISH CONDUIT BACK TO PULL BOX (TYP).”
- 3.55 On Sheet 712-EDM-001, **ADD** callout pointing to demolished pump “DISCONNECT PUMP, MAKE SAFE, AND DEMOLISH ALL ASSOCIATED WIRE BACK TO SOURCE AND DEMOLISH CONDUIT BACK TO PULL BOX (TYP).”
- 3.56 On Sheet 821-EDM-001, **DELETE** “REMOVE PUMP (TYP OF 3)” and **REPLACE** with “DISCONNECT PUMP, MAKE SAFE, AND DEMOLISH ALL ASSOCIATED WIRE BACK TO SOURCE AND DEMOLISH CONDUIT BACK TO CABLE TRAY (TYP).”
- 3.57 On Sheet 821-EDM-001, **DELETE** “WEST WAS PUMPS NEAR EAST AERATION BASINS ELECTRICAL ROOM (FACILITY 824)” and **REPLACE** with “EAST WAS PUMPS NEAR EAST AERATION BASINS ELECTRICAL ROOM (FACILITY 824).”
- 3.58 On Sheet 821-EDM-002, **DELETE** “REMOVE PUMPS (TYP OF 3)” and **REPLACE** with “DISCONNECT PUMP, MAKE SAFE, AND DEMOLISH ALL ASSOCIATED WIRE BACK TO SOURCE AND DEMOLISH CONDUIT BACK TO CABLE TRAY (TYP).”
- 3.59 On Sheet 831-EDM-001, **DELETE** “REMOVE PUMPS (TYP OF 3)” and **REPLACE** with “DISCONNECT PUMP, MAKE SAFE, AND DEMOLISH ALL ASSOCIATED WIRE BACK TO SOURCE AND DEMOLISH CONDUIT BACK TO CABLE TRAY (TYP).”
- 3.60 On Sheet 831-EDM-001, **DELETE** “C-WSP001-83102” and **REPLACE** with “C-WSP003-83102.” Also, **DELETE** “C-WSP003-83102” and **REPLACE** with “C-WSP001-83102.”
- 3.61 On Sheet 831-EDM-001, **DELETE** “DEMOLITION PLAN-II” from the title and **REPLACE** with “DEMOLITION PLAN-I.”
- 3.62 On Sheet 831-EDM-002, **DELETE** “REMOVE PUMPS (TYP OF 3)” and **REPLACE** with “DISCONNECT PUMP, MAKE SAFE, AND DEMOLISH ALL ASSOCIATED WIRE BACK TO SOURCE AND DEMOLISH CONDUIT BACK TO CABLE TRAY (TYP).”
- 3.63 On Sheet 831-EDM-002, **DELETE** “C-WSP004-83102” and **REPLACE** with “C-WSP006-83102.” Also, **DELETE** “C-WSP006-83102” and **REPLACE** with “C-WSP004-83102.”

- 3.64 On Sheet 706-ESL-003, **ADD** the following below note 2: “3. NOTES ON THIS SHEET APPLY TO SINGLE LINE SHEETS.”
- 3.65 **REMOVE** and **REPLACE** with new Sheet 716-ESL-004 from Attachment F.
- 3.66 On Sheet 706-ET-001, **DELETE** “Detail A/706-ET-003” and **REPLACE** with “Detail B/706-ED-001.” Also, **DELETE** “Detail B/706-ED-001” and **REPLACE** with “Detail A/706-ED-001.”
- 3.67 On Sheet 716-ET-001, **DELETE** PPS003-712 (FUTURE AFD) and PPS004-712 (FUTURE AFD).
- 3.68 **REMOVE** and **REPLACE** with new Sheet 821-ET-001 from Attachment F.
- 3.69 On Sheet 821-ET-002, **ADD** callout to pumps “Detail A/824-ED-001 (TYP).”
- 3.70 On Sheet 831-ET-001, **ADD** callout to pumps “Detail A/824-ED-001 (TYP).”
- 3.71 On Sheet 831-ET-001, **DELETE** “C-WSP001-83102” and **REPLACE** with “C-WSP003-83102.” Also, **DELETE** “C-WSP003-83102” and **REPLACE** with “C-WSP001-83102.”
- 3.72 On Sheet 831-ET-001, **DELETE** “WPS003-831,” “WPS002-831,” and “WPS001-831” and **REPLACE** with “WSP003-831,” “WSP002-831,” and “WSP001-831,” respectively.
- 3.73 On Sheet 831-ET-002, **ADD** callout to pumps “Detail A/824-ED-001 (TYP).”
- 3.74 On Sheet 831-ET-002, **DELETE** “C-WSP004-83102” and **REPLACE** with “C-WSP006-83102.” Also, **DELETE** “C-WSP006-83102” and **REPLACE** with “C-WSP004-83102.”
- 3.75 On Sheet 831-ET-002, **DELETE** “WPS006-831,” “WPS005-831,” and “WPS004-831” and **REPLACE** with “WSP006-831,” “WSP005-831,” and “WSP004-831,” respectively.
- 3.76 **REMOVE** and **REPLACE** with new Sheet 701-ED-001 from Attachment F.
- 3.77 **REMOVE** and **REPLACE** with new Sheet 824-ED-001 from Attachment F.
- 3.78 **REMOVE** and **REPLACE** with new Sheet 400-EDM-101 from Attachment F.
- 3.79 **REMOVE** and **REPLACE** with new Sheet 400-EDM-110 from Attachment F.
- 3.80 **REMOVE** and **REPLACE** with new Sheet 400-EDM-122 from Attachment F.

- 3.81 **REMOVE** and **REPLACE** with new Sheet 400-EDM-131 from Attachment F.
- 3.82 **REMOVE** and **REPLACE** with new Sheet 400-EM-002 from Attachment F.
- 3.83 **REMOVE** and **REPLACE** with new Sheet 400-EM-004 from Attachment F.
- 3.84 On Sheet 400-EM-005, ELEMENTARY DIAGRAM VALVE CONTROL PANEL, **DELETE** all valves beginning with tag “V725.” Also on this Sheet, **DELETE** ELEMENTARY DIAGRAM CONVEYOR WARNING HORN CONTROL PANEL diagram in its entirety.
- 3.85 **REMOVE** and **REPLACE** with new Sheet 400-EM-006 from Attachment F.
- 3.86 On Sheet 400-EM-008, VALVE ACTUATOR ELEMENTARY DIAGRAM, **DELETE** V400PMT011A, V400PMT011B, V400PMT012A, and V400PMT012B. Also on the VALVE ACTUATOR ELEMENTARY DIAGRAM, **ADD** the following valves below PBV035-400: PBV081-400MO, PBV082-400MO, PBV083-400MO, PBV084-400MO, and PBV085-400MO. Also on this Sheet, FIT AND LIT ELEMENTARY DIAGRAM, **DELETE** LIT400TPS-013. Also on this Sheet, LS ELEMENTARY DIAGRAM, **DELETE** LS400TPS-013A and LSH-400TPS011A.
- 3.87 **REMOVE** and **REPLACE** with new Sheet 400-EM-011 from Attachment F.
- 3.88 On Sheet 400-EM-012, **ADD** the following tags: PSL400DFP001, PSL400DFP002, PSL400DFP003, PSL400DFP004, PSL400DFP005, PSL400DFP006, and PSL400DFP007.
- 3.89 On Sheet 400-EM-013, Note 1, **DELETE** “DIVISION 11 SPECIFICATIONS” and **REPLACE** with “SPECIFICATION SECTION 46 24 23.”
- 3.90 On Sheet 400-ED-002, Detail B, **DELETE** Tachometer and associated conduit and wire.
- 3.91 On Sheet 400-ED-002, Detail C, **ADD** “E-STOP” next to callout for control station PTS001-400CS2.
- 3.92 On Sheet 400-ED-002, Detail D, **ADD** “E-STOP” next to callout for control station TFP001-400CS2.
- 3.93 On Sheet 400-ED-004, Detail J, **DELETE** all equipment tags “TGB001-400” and **REPLACE** with equipment tags “PFP011-400.”
- 3.94 On Sheet 400-ED-005, Detail K, **DELETE** callout “Slide Gate No. 1 GSD011-400” **REPLACE** with callout “Slide Gate No. 11 GSD011-400”
- 3.95 On Sheet 400-ED-005, in Detail K **DELETE** callout “Slide Gate No. 2 GSD012-

- 400” and **REPLACE** with callout “Slide Gate No. 12 GSD012-400.”
- 3.96 On Sheet 400-ED-005, in Detail K **DELETE** callout “Diverter Gate GSD013-400” and **REPLACE** with callout “Diverter Gate No. 13 GSD013-400.”
- 3.97 On Sheet 400-ED-007, in Detail M **DELETE** instrument “CENTRIFUGE FLUSH WATER FLOW SWITCH (HSC001FWFS-400) and its associated conduit and wire.
- 3.98 **REMOVE** and **REPLACE** with new Sheet 400-BD-001 from Attachment F.
- 3.99 On Sheet 400-BD-005, **ADD** detail title below the diagram: “BASEMENT DIGITAL SIGNAL MANIFOLDS FOR PENETRATIONS TO DPU’S.”
- 3.100 **REMOVE** and **REPLACE** with new Sheet 400-ET-100 from Attachment F.
- 3.101 On Sheet 400-ET-112, **ADD** the following below Note 5: “6. PROVIDE NEW #2/0 BARE COPPER GROUNDING ELECTRODE FROM EXISTING GROUNDING BUS TO EACH NEW CENTRIFUGE MAIN CONTROL PANEL.”
- 3.102 On Sheet 725-ET-100, in the PANELBOARD schedule, **DELETE** “725 ELECTRICAL ROOM” and **REPLACE** with “706 ELECTRICAL ROOM.”
- 3.103 Note, the Cable Schedule beginning on Sheet 000-E-003 is attached to this Addendum No. 1 as an Excel File (Attachment G).
- 3.104 On Sheet 400-I-011, shift PBV165-400 and 3” x 1-1/2” reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV014-400 on 1” EWH to Slide Gate 13. Also **ADD** ball valve symbol just upstream of SOV021-400 on 1” EWH to Sludge Screw Conveyor No. 1.
- 3.105 On Sheet 400-I-012, shift PBV167-400 and 3” x 1-1/2” reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV015-400 on 1” EWH to Slide Gate 23. Also **ADD** ball valve symbol just upstream of SOV022-400 on 1” EWH to Sludge Screw Conveyor No. 2.
- 3.106 On Sheet 400-I-013, shift PBV169-400 and 3” x 1-1/2” reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV016-400 on 1” EWH to Slide Gate 33. Also **ADD** ball valve symbol just upstream of SOV023-400 on 1” EWH to Sludge Screw Conveyor No. 3. **DELETE** “Centrifuge No. 2 HSC002-400” and **REPLACE** with “Centrifuge No. 3 HSC003-400.”
- 3.107 On Sheet 400-I-014, shift PBV171-400 and 3” x 1-1/2” reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV017-400 on 1” EWH to Slide Gate 43. Also **ADD** ball valve symbol just

- upstream of SOV024-400 on 1" EWH to Sludge Screw Conveyor No. 4.
- 3.108 On Sheet 400-I-015, shift PBV173-400 and 3" x 1-1/2" reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV018-400 on 1" EWH to Slide Gate 53. **ADD** ball valve symbol just upstream of SOV022-400 on 1" EWH to Sludge Screw Conveyor No. 5. Also **DELETE** "SOV022-400" and **REPLACE** with "SOV025-400."
- 3.109 On Sheet 400-I-016, shift PBV175-400 and 3" x 1-1/2" reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV019-400 on 1" EWH to Slide Gate 63. Also **ADD** ball valve symbol just upstream of SOV026-400 on 1" EWH to Sludge Screw Conveyor No. 6.
- 3.110 On Sheet 400-I-017, shift PBV177-400 and 3" x 1-1/2" reducer upstream, just outside the supply limits of centrifuge manufacturer. **ADD** ball valve symbol just upstream of SOV017-400 on 1" EWH to Slide Gate 73. **ADD** ball valve symbol just upstream of SOV021-400 on 1" EWH to Sludge Screw Conveyor No. 7. **DELETE** "SOV017-400" and **REPLACE** with "SOV020-400." Also **DELETE** "SOV021-400" and **REPLACE** with "SOV027-400."
- 3.111 On Sheet 400-I-018, shift plastic ball valve on 3" polymer feed line and 3" x 1-1/2" reducer further upstream, just outside the supply limits of centrifuge manufacturer.

4. QUESTIONS AND ANSWERS

- Q1:** In reference to spec section 40 05 82, Section 2.1 C 1 Calls for Bronze body solenoid valves for liquids & 304SS body solenoid valves for gases. Plan sheets like 400-M-001 show solenoid valves in CUP-1/2"-INA-SJ/TD. Please confirm 304SS body solenoid valves are required to be provided in copper instrument air lines to KGVs & similar.
- A1:** The 304SS will be required on the INA copper instrument air piping.
- Q2:** In reference to spec section 40 42 13, Section 3.3 SCHEDULES indicated "Effluent Water" is to be P-1 insulated. Plan sheet 000-M-00 lists EFW, EWC, EWH EWL, & EWU as types of Effluent Water lines. Are 5 of these Effluent Water types to receive P-1 insulation?
- A2:** See edits to Specification Section 40 42 13 and the addition of P-2 insulation on EWH(HOT) piping up to 7-ft above floor level in this Addendum No. 1.
- Q3:** In reference to the Centrifuge Process Flow Diagram plan sheets starting on 400-M-011, call out 1 line as "HSE-2"-DRE-CJ". HSE is not listed in the Pipe Materials abbreviations on DWG 000-M-003. Please clarify the material required for HSE lines. Are the HSE lines Pre-installed by the Centrifuge Manufacturer?
- A3:** HSE represents hose which will be provided by the centrifuge manufacturer

and is added to the Pipe Materials legend in this Addendum No. 1.

- Q4:** In reference to plan sheet 400-M-035, The “CAP” leader suggests these are new caps, while the symbol suggests these caps are existing. Please clarify if new caps are required.
- A4:** The caps are new work, and the seven cap symbols shown on Sheet 400-M-035 should be bold to represent new work as indicated in this Addendum No. 1.
- Q5:** In reference to plan sheets 400-M-101 & 400-M-107, the plans appear to show light weighted Polymer piping from the Existing Dewatering Polymer Feed Pumps, i.e. as Existing lines, while plan sheet 400-M-106 shows these same Polymer lines as weighted dark, i.e. as New lines. Please confirm that these Polymer lines are Existing.
- A5:** Plan Sheets 400-M-101 and 400-M-107 show the existing polymer feed piping correctly as screened (not bold for new work). Sheet 400-M-106 shows the same polymer feed piping to the right as screened to represent existing (not bold for new work) as covered in this Addendum No. 1.
- Q6:** In reference to spec section 40 05 19, Section 2.1.B.3.b FITTINGS calls for ANSI 18.2 carbon steel bolts & nuts; while Valve SPECS 400561 2.1.D.4 & 400561.43 2.2.C.4 note 316SS connecting hardware; 400562 2.1.D.7 requires Zinc connecting hardware at Exposed Pipe then 316SS connecting hardware Buried or Submerged Pipe and 400565.23 2.1.C.10 states 304SS connecting hardware. Please confirm interior exposed pipe & valve flanged joint connecting hardware is carbon steel per ANSI 18.2. Please clarify if 304SS or 316SS is required for buried or submerged pipe & valve flanged joint connecting hardware.
- A6:** 316 SS will be required for submerged, buried, inside tanks or within outdoor structures. The connecting hardware in the Gate Valve, Knife Gate and Plug Valve specifications refer to the bolts holding the valve together.
- Q7:** In reference to spec section 40 61 00, Section 1.2.A requires the services of a Process Control System Supplier (PCSS). Item 1.5.C references non-listed PCSS’. Who are the listed PCSS’? Under which contract are the PCSS services cost to be included?
- A7:** In Specification Section 40 61 00, Paragraph 1.5.C.1 remove the text “non-listed” as indicated in this Addendum No. 1. The qualification package shall be provided for any PCSS. The work of the PCSS shall fall under the scope of Contract G.
- Q8:** In reference to spec section 40 70 00, Section 3.2 Field Instrument Schedule references 40 70 00 Appendix A. I have not found this section in the specifications. Is it available?
- A8:** The Instrument List is attached to this Addendum No. 1 (Attachment E).

- Q9:** In reference to plan sheets 400-I-037 and 400-I-038, is there a specification for the alarm horns shown? Please provide by addendum.
- A9:** Refer to Specification Section 40 78 33 for information on the Emergency Alarm Beacon and Audible Horn.
- Q10:** In reference to detail D on plan sheet MD-002, Note #2 calls for SS channel strut framing supports, Please confirm SS channel strut framing is required for seal water assemblies outside polymer containment areas.
- A10:** Materials to be specified in accordance with Section 40 05 07 "Hangers and Supports for Process Piping." Reference to SS unistrut on Detail D is deleted as indicated in this Addendum No. 1.
- Q11:** In reference to spec section 40 05 07, Section 2.3 A 4 notes copper plated or plastic coated supports are required for copper piping outside polymer containment areas. Please confirm only the support components directly in contact with copper piping is required to be copper plated or plastic coated, so steel strut pieces with Cush-A-Clamp style pipe clamps for supporting copper piping are acceptable for areas outside polymer containment [i.e. pump galleries].
- A11:** The thermoplastic insert appears to meet the specification requirement.
- Q12:** Is there any chance for a 2 week bid date extension?
- A12:** An extension of the bid schedule will not be provided at this time.
- Q13:** Specs say that the Pa Steel Procurement Act rules are in effect. Please confirm.
- A13:** Compliance with the PA Steel Procurement Act is required.

END OF ADDENDUM No. 1

Attachment A

Pre-Bid Meeting Minutes

(August 7, 2024) - (8 ½" x 11" (3 pages))

CONTRACTS 1799 G, E, H, P
SOLIDS THICKENING & DEWATERING IMPROVEMENTS
PRE-BID MEETING AGENDA

WEDNESDAY AUGUST 7, 2024 @ 9:00 AM
ALCOSAN O&M BLDG. AUDITORIUM

JOE TRIPODI – ALCOSAN PROJECT MANAGER
BRAD ZOOK – CONSTRUCTION MANAGER

INTRODUCTION

- a. Attendees will be sent a copy of the Agenda via email noted in attendee list.
- b. Opening comments from Construction Manager.
- c. Contractors must purchase bid documents from ALCOSAN to submit bids and receive addendum information.
- d. Encourage a target goal of WBE/MBE participation. (10% to 25% of contract value).
- e. Presentation of Contract Scope by CDM Smith.

BID DOCUMENTS

1. Legal Notice

- a. Bid security 10% of bid price by certified check or bid bond.
- b. All bids to be submitted to Alcosan Engineering Department clerks (2nd floor of the O&M Building) on or before bid opening date and time. If the bid package is sent to ALCOSAN by land courier (UPS, FedEx, etc.), allow enough time for delivery to the clerks.
- c. Bid opening on **Friday, September 6th, 2024**, at **11:00 AM** sharp!
- d. Anticipation of award at the **September 26th, 2024**, ALCOSAN Board meeting.
- e. All questions about contract documents shall be submitted to Brad Zook email to Bradley.Zook@mbakerintl.com in writing. Any questions by phone or in-person are considered informal and without legal or binding effect on the contract or to the Owner.
- f. The last day for questions is Close of Business **August 27th, 2024**. Responses will be distributed as addenda, as soon as possible, as deemed applicable.
- g. Pre-bid meeting is not mandatory for bidders.

2. Bidding Documents [Article One]

- a. Bid Form - fill in TOTAL BASE BID on page 1-4. This is sum of Lump Sum Work (8.1) and Extended Amount for Unit Price Work (8.2). There are no alternates bid. All bids submitted with all bid forms complete and signed by authorized representative of the Company. Only the bid forms need to be submitted (Article 1 → pages 1-1 through 1-23 (G, E, H, P) and Solicitation and Commitment Statement pages 1 of 4 through 4 of 4), not the entire book.
- b. Acknowledge all Addenda received and made part of the Bid Documents page 2-11. (Art. 2.16)
- c. Provide a contact for your company in the space designated on page 1-5 for receipt of any communications necessary for the bid evaluation.
- d. Bid Bond - Certified check or Bid Bond. (Art. 2.19)
- e. MBE/WBE lower-tier subcontractor participation counts towards 10%-25% (2.25)
- f. Project Labor Agreement (2.33) Primes to sign and submit Letter of Assent with bid. Subs sign before working on project. **Bids submitted without Letter of Assent will be rejected.**
- g. Use of Model (2.34) – “facilitate sequencing of the work in preparing bid.”

3. Information for Bidders [Article Two]

- a. Submission of Bids (2.04); Sealed Bid to be submitted to ALCOSAN Engineering Department on or before bid opening date and late bids (anything received after 11:00 AM) will be treated as “non-responsive” and returned to the Bidder unopened.
- b. Award Contract Execution and Notice to Proceed (2.07); Intend to award Contract 1799 at the September 26th, 2024, Board Meeting. Contract execution typically requires 4-6 weeks to process paperwork (including bonds and certificates of insurance). Anticipate a Notice to Proceed to be issued at the end of October or early November.
- c. Bidders to Investigate (2.13); Bidders may coordinate additional site visits through the Construction Manager Resident Engineer Brad Zook at 717-320-4682 (Office) or Bradley.Zook@mbakerintl.com.
- d. Tax Exemptions (2.18) See Article 3.21 and Exhibit D.
- e. Bid Security / Contract Execution (2.19)
- f. Alterations of Bids and Documents (2.22)
- g. Qualifications and Experience of Bidders (2.24)
- h. MBE & WBE Participation (2.25)
- i. Project Labor Agreement and Letter of Assent (Prime and Subs) (2.33)

4. Contract Provisions [Article Three]

- a. Project Coordination (3.7 & 3.28)
- b. Retainage; (3.37): 10% to start. Reduced to 5% at 50% completion.
- c. Bonds (3.58); Performance Bond and Labor and Material Payment Bond to be provided prior to the execution of the Contract Agreement by Owner in the amount (100%) of the Contract Sum. Also, Maintenance Bond (100% of Contract sum) required upon final acceptance of the completed work.
- d. Working hours (3.77); Normally for an 8-hour period between 7:00 AM to 5:00 PM, Monday through Friday. Work performed after hours, during ALCOSAN holidays and weekends shall be overseen by the Construction Manager, ALCOSAN and FDC staff as required, at the sole expense of the Contractor. **Requests for work outside of these hours must be submitted to CM 48-hours in advance.**
- e. Pennsylvania Prevailing Wage Rates (3.78); Minimum wage rates as set forth by the PA Prevailing Wage Act. (See Article 7 Volume 1 of 3)
- f. Compliance to the Buy American (3.79)
- g. Compliance to the PA Steel Products Procurement Act/Trade Practices Act (3.80/3.81)

5. Contract Agreement [Article Four]

- a. Contract Milestones:

Construction Milestone	Contract Time Calendar Days	Notes
Partial Substantial Completion of Contract 1799G	614 days	From Notice to Proceed. WAS Thickening System Ready for Operation.
Substantial Completion of Contract 1799G	777 days	From Notice to Proceed
Final Completion of Contract 1799G	837 days	From Notice to Proceed

b. Liquidated Damages

<u>Construction Milestone</u>	<u>Liquidated Damages / Calendar Day</u>
Partial Substantial Completion of Contract 1799G	\$5,000/calendar day
Substantial Completion of Contract 1799G	\$2,500/calendar day
Final Completion of Contract 1799G	\$1,000/calendar day

6. **Bonds, Certificates and Statements [Article Five]**

- a. Performance Bond (At beginning of contract)
- b. Labor and Material Payment Bond (At beginning of contract)
- c. Contractor's Certificate of Satisfaction (At completion of contract)
- d. Maintenance Bond (At completion of contract)

7. **Project Specifications [Article 6]**

- a. Summary of Work 01 11 00 – Summarized by the FDC

8. **Prevailing Minimum Wage Determination [Article 7]**

9. **Contract Drawings**

- a. 440 Drawings (Vol. 1 – 207, Vol. 2 – 233)
- b. Bidders were informed to review the Site Utilization/Laydown drawings.

10. **Open Discussion / Questions / Site Tour Requests-submit**

◆◆◆◆ END OF AGENDA ◆◆◆◆

Attachment B

Pre-Bid Meeting Attendance Sheet

(8 ½" x 11" (2 pages))

Allegheny County Sanitary Authority

Contract 1799 - Solids Thickening & Dewatering Improvements

PRE-BID MEETING SIGN-IN

Name	Company	Email	Phone Number
1. BRAD Zook	MBI	BRADLEY.ZOOK@mbakerintl.com	717 320 4682
2. Joe Tripodi	Alcosan	joe@alcosan.org	
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4. Preston	///	Preston.Macready@PSDick.com	
5. Emily Massen	MBI	emily.massen@mbakerintl.com	(412) 977 - 5920
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15. Laurel Schuch	cdmsmith	lschuch@cdmsmith.com	412-208-2413
16. ANDY KLOPP	CDM SMITH	kloppa@cdmsmith.com	412-400-5021
17. Joe Crowley	cdmsmith	crowleyjd@cdmsmith.com	
18. Jack Waggett	Millennium Industrial	jackw@millforc.com	724-990-7542

PRE-BID MEETING SIGN-IN

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22. Kate Glodek	GACO APEX Accelerator	glodek@pennwest.edu	724-938-5881
23. Val Kachur	GACO APEX Accelerator	Kachur-V@pennwest.edu	412-237-6098
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25. Mike Hogg	Wellington Power	mhogg@wellingtonpower.com	412-292-0332
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27. Scott DeBacco	Xylem	Scott.debacco@xylem.com	
28. Terrance Surtu	The 84 Group Inc.	tsurtu@the84group.com	
29. GREG CONLY	APPLING STONE	gconly@applenidgestone.com	(412) 757-1175
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32.			
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37.			

Attachment C

Attachment 2 – SECTION 01 71 16 – MANUFACTURERS' ON-SITE TRAINING SCHEDULE

(8 ½" x 11" (2 pages))

ATTACHMENT 2 - SECTION 01 71 16 – MANUFACTURERS’ ON-SITE TRAINING SCHEDULE

Spec No.	Technical Specification Equipment Description	Operations			Maintenance			Grand Total Hours	Number of Trips	Notes
		Sessions	Hours per Session	Total Hours	Sessions	Hours per Session	Total Hours			
22 33 00	Electric Domestic Water Heaters	-	-	-	1	1	1	1	1	
23 34 16	Centrifugal HVAC Fans	-	-	-	1	1	1	1	1	
23 34 23	HVAC Power Ventilators	-	-	-	1	1	1	1	1	
23 81 26	Split System Air Conditioners	-	-	-	1	1	1	1	1	
26 22 00	Low-Voltage Transformers	-	-	-	1	1	1	1	1	
26 24 16	Panelboards	-	-	-	1	1	1	1	1	
26 29 23	Variable Frequency Motor Controllers	1	1	1	2	2	4	5	1	Training to be coordinated with the first set of pumps started up
40 05 51	480V Electric Actuators	-	-	-	2	1	2	2	1	
40 05 51	120V Electric Actuators	-	-	-	2	1	2	2	1	
40 05 51	Pneumatic Actuators	-	-	-	2	1	2	2	1	
40 61 26	Programmable Logic Controllers	-	-	-	2	*	24	24	1	*Provide one 8 hour session (basic) and one 16 hour session (advanced)
40 61 26	Installed Control System	-	-	-	1	2	2	2	1	
40 61 26	PLC Hardware/Software	-	-	-	1	2	2	2	1	
40 61 26	Instrument Manufacturer Training	-	-	-	1	1	1	1	1	
40 61 26	Instrument Training	-	-	-	2	1	2	2	1	
40 61 26	Instruments - Operator Familiarity	1	2	2	-	-	-	2	1	
41 12 13.36	Screw Bulk Material Conveyors	-	-	-	2	2	4	4	1	

Spec No.	Technical Specification Equipment Description	Operations			Maintenance			Grand Total Hours	Number of Trips	Notes
		Sessions	Hours per Session	Total Hours	Sessions	Hours per Session	Total Hours			
43 23 13.19	Self-Priming Centrifugal Pump	-	-	-	2	1	2	2	1	
43 23 35	Recessed Impeller Pumps	-	-	-	2	1	2	2	1	
43 23 37	Screw Impeller Pumps	-	-	-	2	1	2	2	1	
43 23 57	Progressing Cavity Pumps	-	-	-	2	1	2	2	1	
43 23 58	Rotary Lobe Pumps	1	1	1	2	4	8	9	1	
46 24 23	Inline Grinders	-	-	-	2	4	8	8	1	
46 33 33	Polymer Mixing Units	1	1	1	2	4	8	9	1	
46 41 21	Vertical Shaft Mixers	-	-	-	2	1	2	2	1	
46 71 17	Enclosed Gravity Belt Thickeners	4	8	32	4	8	32	64	4	
46 76 35	Dewatering Centrifuges	4	8	32	3	8	24	56	3	On-site services specified in Equipment Pre-Purchase

END OF SECTION 01 71 16

Attachment D

Section 40 61 93 Attachment, I/O Lists

(8 ½" x 11" (58 pages))

I/O Lists

August 2024

Contents:

- West Primary Sludge Pumping Station Electrical Room 706
- East Primary Sludge Pumping Station Electrical Room 716
- West Aeration Basins Electrical Room 834
- East Aeration Basins Electrical Room 824
- Dewatering Building 400

I/O List Legend

- *Black Italicized Text* – I/O points for existing equipment with no modifications.
- *Blue Italicized Text* – I/O points for existing equipment. I/O points are reused.
- **Red Text** – I/O points for new equipment.

I/O List

West Primary Sludge Pumping Station Electrical Room 706

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
FT723PPS001	SLUDGE FLOW W1&2-EAST LINE FLOW	AI	N/A	N/A	0	1300	GPM	DPU 38-706	1	1	1	1	A1(+)/B01	P1(+)/A01	SH1/A02	NO
FT723PPS002	PRIMARY SLUDGE W1&2-WEST LINE FLOW	AI	N/A	N/A	0	1300	GPM	DPU 38-706	1	1	1	2	A2(+)/B03	P2(+)/A03	SH2/A04	NO
FT723PPS003	PRIMARY SLUDGE FLOW W-1& 2 FLOW	AI	N/A	N/A	0	350	GPM	DPU 38-706	1	1	1	3	A3(+)/B05	P3(+)/A05	SH3/A06	NO
FT723PPS004	PRIMARY SLUDGE W2-EAST LINE FLOW	AI	N/A	N/A	0	650	GPM	DPU 38-706	1	1	1	4	A4(+)/B07	P4(+)/A07	SH4/A08	NO
FT723PPS005	PRIMARY SLUDGE W2-WEST LINE FLOW	AI	N/A	N/A	0	650	GPM	DPU 38-706	1	1	1	5	A5(+)/B09	P5(+)/A09	SH5/A10	NO
TT706DPU001	W.PRIMARY-DPU38 TEMPERATURE	AI	N/A	N/A	0	200	DEG F	DPU 38-706	1	1	1	6	A6(+)/A11	A6(-)/B11	SH6/A12	YES
LIT725TSP200A	WEST CONCENTRATED SCUM LEVEL	AI	N/A	N/A	0	12	FT	DPU 38-706	1	1	1	7	A2(+)/A03	A2(-)/B04	SH2/A04	YES
LIT725TSP200B	WEST UNDERFLOW SCUM LEVEL	AI	N/A	N/A	0	12	FT	DPU 38-706	1	1	1	8	A2(+)/A03	A2(-)/B04	SH2/A04	YES
JT706MCC006A	W. PRIMARY MCC6A POWER USAGE	AI	N/A	N/A	0	1000	KW	DPU 38-706	1	1	2	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
JT706MCC006B	W. PRIMARY MCC6B POWER USAGE	AI	N/A	N/A	0	1000	KW	DPU 38-706	1	1	2	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
JT706MCC007A	W. PRIMARY MCC7A POWER USAGE	AI	N/A	N/A	0	1000	KW	DPU 38-706	1	1	2	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
JT706MCC007B	W. PRIMARY MCC7B POWER USAGE	AI	N/A	N/A	0	1000	KW	DPU 38-706	1	1	2	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
	SPARE	AI	N/A	N/A				DPU 38-706	1	1	2	5				
	SPARE	AI	N/A	N/A				DPU 38-706	1	1	2	6				
	SPARE	AI	N/A	N/A				DPU 38-706	1	1	2	7				
LIT725TSP200C	WEST CONCENTRATED SCUM LEVEL	AI	N/A	N/A	0	12.167	FT	DPU 38-706	1	1	2	8	A2(+)/A03	A2(-)/B04	SH2/A04	YES
	SPARE	AI	N/A	N/A				DPU 38-706	1	1	3	1				
	SPARE	AI	N/A	N/A				DPU 38-706	1	1	3	2				
LIT700SKM001A	PRIMARY W0-BAY 2 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 38-706	1	1	3	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
LIT700SKM001B	PRIMARY W0-BAY 3 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 38-706	1	1	3	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
LIT700SKM101A	PRIMARY W1-BAY 2 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 38-706	1	1	3	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
LIT700SKM101B	PRIMARY W1-BAY 3 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 38-706	1	1	3	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
LIT700SKM201A	PRIMARY W2-BAY 2 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 38-706	1	1	3	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
LIT700SKM201B	PRIMARY W2-BAY 3 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 38-706	1	1	3	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
LIT700SKM301A	PRIMARY W3-BAY 2 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 38-706	1	1	4	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
LIT700SKM301B	PRIMARY W3-BAY 3 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 38-706	1	1	4	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
LIT700SKM401A	PRIMARY W4-BAY 2 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 38-706	1	1	4	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
LIT700SKM401B	PRIMARY W4-BAY 3 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 38-706	1	1	4	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
ST701PPS001	W1 PRIMARY PUMP NO. 1 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 38-706	1	1	4	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ST701PPS002	W1 PRIMARY PUMP NO. 2 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 38-706	1	1	4	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ST701PPS003	W1 PRIMARY PUMP NO. 3 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 38-706	1	1	4	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ST701PPS004	W1 PRIMARY PUMP NO. 4 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 38-706	1	1	4	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
ST702PPS001	W2 PRIMARY PUMP NO. 1 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 38-706	1	1	5	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ST702PPS002	W2 PRIMARY PUMP NO. 2 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 38-706	1	1	5	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
ST702PPS003	W2 PRIMARY PUMP NO. 3 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 38-706	1	1	5	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ZT700SKM001	W0-BAY1 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	5	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
ZT700SKM002	W0-BAY2 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	5	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ZT700SKM003	W0-BAY3 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	5	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ZT700SKM004	W0-BAY4 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	5	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ZT700SKM101	W1-BAY1 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	5	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
ZT700SKM102	W1-BAY2 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	6	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ZT700SKM103	W1-BAY3 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	6	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
ZT700SKM104	W1-BAY4 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	6	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ZT700SKM201	W2-BAY1 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	6	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
ZT700SKM202	W2-BAY2 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	6	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ZT700SKM203	W2-BAY3 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	6	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ZT700SKM204	W2-BAY4 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	6	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ZT700SKM301	W3-BAY1 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	6	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
ZT700SKM302	W3-BAY2 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	7	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ZT700SKM303	W3-BAY3 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	7	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
ZT700SKM304	W3-BAY4 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	7	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ZT700SKM401	W4-BAY1 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	7	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
ZT700SKM402	W4-BAY2 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	7	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ZT700SKM403	W4-BAY3 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	7	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ZT700SKM404	W4-BAY4 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 38-706	1	1	7	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
	SPARE	AI	N/A	N/A				DPU 38-706	1	1	7	8				
ZC700SKM402B	W4-BAY2 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	2	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC700SKM403B	W4-BAY3 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	2	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC700SKM404B	W4-BAY4 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	2	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
	SPARE	AO	N/A	N/A				DPU 38-706	1	2	2	4				
ZC700SKM302B	W3-BAY2 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	3	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC700SKM303B	W3-BAY3 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	3	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC700SKM304B	W3-BAY4 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	3	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
ZC700SKM401B	W4-BAY1 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	3	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO
ZC700SKM202B	W2-BAY2 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	4	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC700SKM203B	W2-BAY3 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	4	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC700SKM204B	W2-BAY4 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	4	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
ZC700SKM301B	W3-BAY1 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	4	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
ZC700SKM102B	W1-BAY2 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	5	1	(+)/I1/A02	(-/J1/B02	SH1/C01	NO
ZC700SKM103B	W1-BAY3 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	5	2	(+)/I2/A06	(-/J2/B06	SH2/C05	NO
ZC700SKM104B	W1-BAY4 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	5	3	(+)/I3/A10	(-/J3/B10	SH3/C09	NO
ZC700SKM201B	W2-BAY1 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	5	4	(+)/I4/A14	(-/J4/B14	SH4/C13	NO
ZC700SKM002B	W0-BAY2 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	6	1	(+)/I1/A02	(-/J1/B02	SH1/C01	NO
ZC700SKM003B	W0-BAY3 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	6	2	(+)/I2/A06	(-/J2/B06	SH2/C05	NO
ZC700SKM004B	W0-BAY4 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	6	3	(+)/I3/A10	(-/J3/B10	SH3/C09	NO
ZC700SKM101B	W1-BAY1 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	6	4	(+)/I4/A14	(-/J4/B14	SH4/C13	NO
SC702PPS001B	W2 PRIMARY PUMP NO. 1 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 38-706	1	2	7	1	(+)/I1/A02	(-/J1/B02	SH1/C01	NO
SC702PPS002B	W2 PRIMARY PUMP NO. 2 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 38-706	1	2	7	2	(+)/I2/A06	(-/J2/B06	SH2/C05	NO
SC702PPS003B	W2 PRIMARY PUMP NO. 3 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 38-706	1	2	7	3	(+)/I3/A10	(-/J3/B10	SH3/C09	NO
ZC700SKM001B	W0-BAY1 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 38-706	1	2	7	4	(+)/I4/A14	(-/J4/B14	SH4/C13	NO
SC701PPS001B	W1 PRIMARY PUMP NO. 1 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 38-706	1	2	8	1	(+)/I1/A02	(-/J1/B02	SH1/C01	NO
SC701PPS002B	W1 PRIMARY PUMP NO. 2 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 38-706	1	2	8	2	(+)/I2/A06	(-/J2/B06	SH2/C05	NO
SC701PPS003B	W1 PRIMARY PUMP NO. 3 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 38-706	1	2	8	3	(+)/I3/A10	(-/J3/B10	SH3/C09	NO
SC701PPS004B	W1 PRIMARY PUMP NO. 4 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 38-706	1	2	8	4	(+)/I4/A14	(-/J4/B14	SH4/C13	NO
HV725SPS003A	W. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 1 CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 38-706	1	3	5	1				
HV725SPS003B	W. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 1 CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 38-706	1	3	5	2				
HV725WSP002A	W. WAS PS DISCHARGE DIVERSION VALVE NO. 2 CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 38-706	1	3	5	3				
HV725WSP002B	W. WAS PS DISCHARGE DIVERSION VALVE NO. 2 CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 38-706	1	3	5	4				
	SPARE	DO			N/A	N/A	N/A	DPU 38-706	1	3	5	5				
	SPARE	DO			N/A	N/A	N/A	DPU 38-706	1	3	5	6				
HV725CST003A	CONCENTRATED SCUM TO PSL (EAST) HEADER VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 38-706	1	3	5	7				
HV725CST003B	CONCENTRATED SCUM TO PSL (EAST) HEADER VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 38-706	1	3	5	8				
	SPARE	DO			N/A	N/A	N/A	DPU 38-706	1	3	5	9				
	SPARE	DO			N/A	N/A	N/A	DPU 38-706	1	3	5	10				
	SPARE	DO			N/A	N/A	N/A	DPU 38-706	1	3	5	11				
	SPARE	DO			N/A	N/A	N/A	DPU 38-706	1	3	5	12				
	SPARE	DO			N/A	N/A	N/A	DPU 38-706	1	3	5	13				
	SPARE	DO			N/A	N/A	N/A	DPU 38-706	1	3	5	14				
	SPARE	DO			N/A	N/A	N/A	DPU 38-706	1	3	5	15				
	SPARE	DO			N/A	N/A	N/A	DPU 38-706	1	3	5	16				
HS700TSP403A	W4-3 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	1			N/A	N/A
HS700TSP404A	W4-4 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	2			N/A	N/A
HS701PPS001A	W1 PRIMARY PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	3			N/A	N/A
HS701PPS002A	W1 PRIMARY PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	4			N/A	N/A
HS701PPS003A	W1 PRIMARY PUMP NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	5			N/A	N/A
HS701PPS004A	W1 PRIMARY PUMP NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	6			N/A	N/A
HS702PPS001A	W2 PRIMARY PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	7			N/A	N/A
HS702PPS002A	W2 PRIMARY PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	8			N/A	N/A
HS702PPS003A	W2 PRIMARY PUMP NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	9			N/A	N/A
HV725SPS004A	W. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 2 CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	10				
HS706LGT001A	W.PRIMARY STREET LIGHT CONTROL	DO	ON	OFF	N/A	N/A	N/A	DPU 38-706	1	3	6	11			N/A	N/A
HV725SPS004B	W. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 2 CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	12				
HS725ASW200A	WEST SCUM MIXER S/S CTRL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	13			N/A	N/A
HV725WSP003A	W. WAS PS DISCHARGE DIVERSION VALVE NO. 1 CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	14				
HV725WSP003B	W. WAS PS DISCHARGE DIVERSION VALVE NO. 1 CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 38-706	1	3	6	15				
HN706EVA001	W. PRIMARY EVACUATION ALARM	DO	ON	OFF	N/A	N/A	N/A	DPU 38-706	1	3	6	16			N/A	N/A
HS700TSP003A	W0-3 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	1				
HS700TSP004A	W0-4 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	2				
HS700TSP101A	W1-1 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	3				
HS700TSP102A	W1-2 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	4				
HS700TSP103A	W1-3 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	5				
HS700TSP104A	W1-4 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	6				
HS700TSP201A	W2-1 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	7				
HS700TSP202A	W2-2 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	8				
HS700TSP203A	W2-3 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	9				
HS700TSP204A	W2-4 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	10				
HS700TSP301A	W3-1 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	11				
HS700TSP302A	W3-2 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	12				
HS700TSP303A	W3-3 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	13				
HS700TSP304A	W3-4 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	14				
HS700TSP401A	W4-1 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	15				
HS700TSP402A	W4-2 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	7	16				
HS725SDP201A	WEST SCUM DECANT PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	1				
HS700GPE001A	START MS1 SLUICE GATE OPENING	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	2				
HS710GPI001B	START MS2 SLUICE GATE CLOSING	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	3				
HS710GPI001A	START MS1 SLUICE GATE OPENING	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	4				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HS700GPI001B	START MS2 SLUICE GATE CLOSING	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	5				
HS725SMP201A	WEST SCUM MIXING PUMP S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	6				
HS725SDP202A	WEST SCUM DECANT PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	7				
HS700SCC001A	W0 CROSS COLLECTOR S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	8				
HS700SCC101A	W1 CROSS COLLECTOR S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	9				
HS700SCC201A	W2 CROSS COLLECTOR S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	10				
HS700SCC301A	W3 CROSS COLLECTOR S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	11				
HS700SCC401A	W4 CROSS COLLECTOR S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	12				
HS725STP201A	WEST SCUM TRANSFER PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	13				
HS725STP202A	WEST SCUM TRANSFER PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	14				
HS700TSP001A	W0-1 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	15				
HS700TSP002A	W0-2 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 38-706	1	3	8	16				
AS707CGM001	W. DRIVE BUILDING GAS PANEL STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 38-706	1	5	1	1				
AS708CGM001	W. SCUM BUILDING GAS PANEL STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 38-706	1	5	1	2				
AS709CGM001	W. WEIR BUILDING GAS PANEL STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 38-706	1	5	1	3				
ASHH707CGM001	WEST DRIVE BUILDING HIGH GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	1	4				
ASHH708CGM001	WEST SCUM BUILDING HIGH GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	1	5				
ASHH709CGM001	WEST WEIR BUILDING HIGH GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	1	6				
HS725PPS003	W. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	1	7				
ZSO725PPS003	W. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 1 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	5	1	8				
ZSC725PPS003	W. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 1 CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	5	1	9				
LSHH701PPS001	W1 PRIMARY STATION FLOOD LEVEL	DI	NORMAL	FLOOD	N/A	N/A	N/A	DPU 38-706	1	5	1	10				
HS725WSP002	W. WAS PS DISCHARGE DIVERSION VALVE NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	1	11				
	SPARE	DI			N/A	N/A	N/A	DPU 38-706	1	5	1	12				
LSHH702PPS001	W2 PRIMARY STATION FLOOD LEVEL	DI	NORMAL	FLOOD	N/A	N/A	N/A	DPU 38-706	1	5	1	13				
FSL707MAU001	W. DRIVE BLDG FAN NO. 1 AIR LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	1	14				
FSL708MAU001	W. SCUM BLDG FAN NO. 1 AIR LO FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	1	15				
FSL709MAU001	W. WEIR BLDG FAN NO. 1 AIR LO FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	1	16				
HS725SDP201E	WEST SCUM DECANT PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	2	1				
HS725SDP201F	WEST SCUM DECANT PUMP NO. 1 ESTOP STATUS	DI	ESTOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	2	2				
HS700GPE001E	HAND SWITCH IN REMOTE POSITION	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	2	3				
HS700GPI001F	EMERGENCY PUSH BUTTON DEPRESS	DI	ESTOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	2	4				
HS700GPI001E	HAND SWITCH IN REMOTE POSITION	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	2	5				
HS725SMP201E	WEST SCUM MIXING PUMP L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	2	6				
HS725SMP201F	WEST SCUM MIXING PUMP ESTOP STATUS	DI	ESTOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	2	7				
HS725SDP202E	WEST SCUM DECANT PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	2	8				
HS725SDP202F	WEST SCUM DECANT PUMP NO. 2 ESTOP STATUS	DI	ESTOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	2	9				
HS700SCC001E	W0 CROSS COLLECTOR L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	2	10				
HS700SCC001F	W0 CROSS COLLECTOR ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	2	11				
HS700SCC101E	W1 CROSS COLLECTOR L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	2	12				
HS700SCC101F	W1 CROSS COLLECTOR ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	2	13				
HS700SCC201E	W2 CROSS COLLECTOR L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	2	14				
HS700SCC201F	W2 CROSS COLLECTOR ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	2	15				
HS700SCC301E	W3 CROSS COLLECTOR L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	2	16				
HS700SCC301F	W3 CROSS COLLECTOR ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	3	1				
HS700SCC401E	W4 CROSS COLLECTOR L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	3	2				
HS700SCC401F	W4 CROSS COLLECTOR ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	3	3				
HS725STP201E	WEST SCUM TRANSFER PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	3	4				
HS725STP201F	WEST SCUM TRANSFER PUMP NO. 1 ESTOP STATUS	DI	ESTOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	3	5				
HS725STP202E	WEST SCUM TRANSFER PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	3	6				
HS725STP202F	WEST SCUM TRANSFER PUMP NO. 2 ESTOP STATUS	DI	ESTOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	3	7				
HS700TSP001E	W0-1 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	3	8				
HS700TSP001F	W0-1 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	3	9				
HS700TSP002E	W0-2 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	3	10				
HS700TSP002F	W0-2 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	3	11				
HS700TSP003E	W0-3 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	3	12				
HS700TSP003F	W0-3 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	3	13				
HS700TSP004E	W0-4 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	3	14				
HS700TSP004F	W0-4 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	3	15				
HS700TSP101E	W1-1 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	3	16				
HS700TSP101F	W1-1 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	4	1				
HS700TSP102E	W1-2 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	4	2				
HS700TSP102F	W1-2 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	4	3				
HS700TSP103E	W1-3 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	4	4				
HS700TSP103F	W1-3 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	4	5				
HS700TSP104E	W1-4 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	4	6				
HS700TSP104F	W1-4 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	4	7				
HS700TSP201E	W2-1 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	4	8				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HS700TSP201F	W2-1 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	4	9				
HS700TSP202E	W2-2 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	4	10				
HS700TSP202F	W2-2 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	4	11				
HS700TSP203E	W2-3 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	4	12				
HS700TSP203F	W2-3 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	4	13				
HS700TSP204E	W2-4 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	4	14				
HS700TSP204F	W2-4 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	4	15				
HS700TSP301E	W3-1 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	4	16				
HS700TSP301F	W3-1 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	5	1				
HS700TSP302E	W3-2 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	5	2				
HS700TSP302F	W3-2 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	5	3				
HS700TSP303E	W3-3 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	5	4				
HS700TSP303F	W3-3 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	5	5				
HS700TSP304E	W3-4 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	5	6				
HS700TSP304F	W3-4 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	5	7				
HS700TSP401E	W4-1 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	5	8				
HS700TSP401F	W4-1 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	5	9				
HS700TSP402E	W4-2 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	5	10				
HS700TSP402F	W4-2 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	5	11				
HS700TSP403E	W4-3 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	5	12				
HS700TSP403F	W4-3 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	5	13				
HS700TSP404E	W4-4 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	5	14				
HS700TSP404F	W4-4 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	5	15				
HS701PPS001E	W1 PRIMARY PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	5	16				
HS701PPS001F	W1 PRIMARY PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	6	1				
HS701PPS002E	W1 PRIMARY PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	6	2				
HS701PPS002F	W1 PRIMARY PUMP NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	6	3				
HS701PPS003E	W1 PRIMARY PUMP NO. 3 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	6	4				
HS701PPS003F	W1 PRIMARY PUMP NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	6	5				
HS701PPS004E	W1 PRIMARY PUMP NO. 4 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	6	6				
HS701PPS004F	W1 PRIMARY PUMP NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	6	7				
HS702PPS001E	W2 PRIMARY PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	6	8				
HS702PPS001F	W2 PRIMARY PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	6	9				
HS702PPS002E	W2 PRIMARY PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	6	10				
HS702PPS002F	W2 PRIMARY PUMP NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	6	11				
HS702PPS003E	W2 PRIMARY PUMP NO. 3 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	5	6	12				
HS702PPS003F	W2 PRIMARY PUMP NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	5	6	13				
MS725SDP201A	WEST SCUM DECANT PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	6	14				
MS725STG202A	WEST SCUM TANK GRINDER RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	6	15				
	SPARE	DI			N/A	N/A	N/A	DPU 38-706	1	5	6	16				
MS700SCC001A	W0 CROSS COLLECTOR RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	1				
MS700SCC101A	W1 CROSS COLLECTOR RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	2				
MS700SCC201A	W2 CROSS COLLECTOR RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	3				
MS700SCC301A	W3 CROSS COLLECTOR RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	4				
MS700SCC401A	W4 CROSS COLLECTOR RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	5				
MS725STP201A	WEST SCUM TRANSFER PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	6				
MS725STP202A	WEST SCUM TRANSFER PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	7				
MS700TSP001A	W0-1 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	8				
MS700TSP002A	W0-2 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	9				
MS700TSP003A	W0-3 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	10				
MS700TSP004A	W0-4 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	11				
MS700TSP101A	W1-1 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	12				
MS700TSP102A	W1-2 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	13				
MS700TSP103A	W1-3 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	14				
MS700TSP104A	W1-4 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	15				
MS700TSP201A	W2-1 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	7	16				
MS700TSP202A	W2-2 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	1				
MS700TSP203A	W2-3 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	2				
MS700TSP204A	W2-4 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	3				
MS700TSP301A	W3-1 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	4				
MS700TSP302A	W3-2 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	5				
MS700TSP303A	W3-3 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	6				
MS700TSP304A	W3-4 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	7				
MS700TSP401A	W4-1 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	8				
MS700TSP402A	W4-2 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	9				
MS700TSP403A	W4-3 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	10				
MS700TSP404A	W4-4 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	11				
MS701PPS001A	W1 PRIMARY PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	12				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
MS701PPS002A	W1 PRIMARY PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	13				
MS701PPS003A	W1 PRIMARY PUMP NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	14				
MS701PPS004A	W1 PRIMARY PUMP NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	15				
MS702PPS001A	W2 PRIMARY PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	5	8	16				
ZSO701PPS001A	PRIMARY TREATMENT TANK W-0 SLUDGE VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	1				
ZSC701PPS001A	PRIMARY TREATMENT TANK W-0 SLUDGE VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	2				
ZSO701PPS007	W1 PRIMARY SLUDGE PUMP NO. 1 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	3				
ZSC701PPS007	W1 PRIMARY SLUDGE PUMP NO. 1 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	4				
ZSO831WSP002	W. WAS PS DISCHARGE DIVERSION VALVE NO. 2 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	5				
ZSC831WSP002	W. WAS PS DISCHARGE DIVERSION VALVE NO. 2 CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	6				
FSL701PPS001	W1 PRIMARY PUMP NO. 1 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 38-706	1	6	1	7				
ZSO701PPS001	W1 PRIMARY PUMP NO. 1 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 38-706	1	6	1	8				
ZSO702PPS003A	PRIMARY TREATMENT TANK W-3 TO PRIM. SLUDGE PMP NO. 2 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	9				
ZSC702PPS003A	PRIMARY TREATMENT TANK W-3 TO PRIM. SLUDGE PMP NO. 2 VALVE CLOSE	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	10				
ZSO702PPS004	PRIMARY TREATMENT TANK W-4 TO PRIM. SLUDGE PMP NO. 2 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	11				
ZSC702PPS004	PRIMARY TREATMENT TANK W-4 TO PRIM. SLUDGE PMP NO. 2 VALVE CLOSE	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	12				
ZSO702PPS006	W2 PRIMARY SLUDGE PUMP NO. 2 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	13				
ZSC702PPS006	W2 PRIMARY SLUDGE PUMP NO. 2 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	1	14				
	SPARE	DI						DPU 38-706	1	6	1	15				
	SPARE	DI						DPU 38-706	1	6	1	16				
ZSO701PPS002A	PRIMARY TREATMENT TANK W-1 SLUDGE VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	1				
ZSC701PPS002A	PRIMARY TREATMENT TANK W-1 SLUDGE VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	2				
ZSO701PPS008	W1 PRIMARY SLUDGE PUMP NO. 2 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	3				
ZSC701PPS008	W1 PRIMARY SLUDGE PUMP NO. 2 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	4				
ZSO701PPS004A	PRIMARY TREATMENT TANK W-0 TO PRIM. SLUDGE PMP NO. 2 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	5				
ZSC701PPS004A	PRIMARY TREATMENT TANK W-0 TO PRIM. SLUDGE PMP NO. 2 VALVE CLOSE	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	6				
FSL701PPS002	W1 PRIMARY PUMP NO. 2 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 38-706	1	6	2	7				
ZSO701PPS002	W1 PRIMARY PUMP NO. 2 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 38-706	1	6	2	8				
HS725PPS004	W. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	6	2	9				
ZSO725PPS004	W. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 2 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	10				
ZSC725PPS004	W. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 2 CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	11				
ZSO702PPS002A	PRIMARY TREATMENT TANK W-4 SLUDGE VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	12				
ZSC702PPS002A	PRIMARY TREATMENT TANK W-4 SLUDGE VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	13				
ZSO702PPS007	W2 PRIMARY SLUDGE PUMP NO. 3 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	14				
ZSC702PPS007	W2 PRIMARY SLUDGE PUMP NO. 3 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	2	15				
	SPARE	DI						DPU 38-706	1	6	2	16				
ZSO701PPS003A	PRIMARY TREATMENT TANK W-2 SLUDGE VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	3	1				
ZSC701PPS003A	PRIMARY TREATMENT TANK W-2 SLUDGE VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	3	2				
ZSO701PPS010	PRIMARY SLUDGE PUMP NO. 4 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	3	3				
ZSC701PPS010	PRIMARY SLUDGE PUMP NO. 4 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	3	4				
FSL701PPS004	W1 PRIMARY PUMP NO. 4 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 38-706	1	6	3	5				
ZSO701PPS004	W1 PRIMARY PUMP NO. 4 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 38-706	1	6	3	6				
FSL702PPS002	W2 PRIMARY PUMP NO. 2 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 38-706	1	6	3	7				
ZSO702PPS002	W2 PRIMARY PUMP NO. 2 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 38-706	1	6	3	8				
	SPARE	DI			N/A	N/A	N/A	DPU 38-706	1	6	3	9				
	SPARE	DI			N/A	N/A	N/A	DPU 38-706	1	6	3	10				
	SPARE	DI			N/A	N/A	N/A	DPU 38-706	1	6	3	11				
ZSO702PPS001A	PRIMARY TREATMENT TANK W-3 SLUDGE VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	3	12				
ZSC702PPS002A	PRIMARY TREATMENT TANK W-3 SLUDGE VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	3	13				
ZSO702PPS005	W2 PRIMARY SLUDGE PUMP NO. 1 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	3	14				
ZSC702PPS005	W2 PRIMARY SLUDGE PUMP NO. 1 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	3	15				
	SPARE	DI						DPU 38-706	1	6	3	16				
HS725WSP003	W. WAS PS DISCHARGE DIVERSION VALVE NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	6	4	1				
ZSO725WSP003	W. WAS PS DISCHARGE DIVERSION VALVE NO. 1 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	4	2				
ZSC725WSP003	W. WAS PS DISCHARGE DIVERSION VALVE NO. 1 CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	4	3				
FSL701PPS003	W1 PRIMARY PUMP NO. 3 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 38-706	1	6	4	4				
ZSO701PPS003	W1 PRIMARY PUMP NO. 3 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 38-706	1	6	4	5				
ZSO701PPS005	PRIMARY TREATMENT TANK W-1 TO PRIM. SLUDGE PMP NO. 3 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	4	6				
ZSC701PPS005	PRIMARY TREATMENT TANK W-1 TO PRIM. SLUDGE PMP NO. 3 VALVE CLOSE	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	4	7				
ZSO701PPS006	PRIMARY TREATMENT TANK W-2 TO PRIM. SLUDGE PMP NO. 3 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	4	8				
ZSC701PPS006	PRIMARY TREATMENT TANK W-2 TO PRIM. SLUDGE PMP NO. 3 VALVE CLOSE	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	4	9				
ZSO701PPS009	PRIMARY SLUDGE PUMP NO. 3 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	4	10				
ZSC701PPS009	PRIMARY SLUDGE PUMP NO. 3 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	4	11				
FSL702PPS001	W2 PRIMARY PUMP NO. 1 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 38-706	1	6	4	12				
ZSO702PPS001	W2 PRIMARY PUMP NO. 1 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 38-706	1	6	4	13				
HS725CST003	CONCENTRATED SCUM TO PSL (EAST) HEADER VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	6	4	14				
ZSO725CST003	CONCENTRATED SCUM TO PSL (EAST) HEADER VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	4	15				
ZSC725CST003	CONCENTRATED SCUM TO PSL (EAST) HEADER VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	4	16				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
UA701PPS004	W1 PRIMARY PUMP NO. 4 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 38-706	1	6	5	1				
UA702PPS001	W2 PRIMARY PUMP NO. 1 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 38-706	1	6	5	2				
UA702PPS002	W2 PRIMARY PUMP NO. 2 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 38-706	1	6	5	3				
UA702PPS003	W2 PRIMARY PUMP NO. 3 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 38-706	1	6	5	4				
EN706UPS001	DPU38 UPS STATUS	DI	BATTTRY	OFF	N/A	N/A	N/A	DPU 38-706	1	6	5	5				
EAM706UPS001	DPU38 UPS ALARM STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 38-706	1	6	5	6				
EAF706PNL100	DPU38 PRIMARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	5	7				
EAF706PNL101	DPU38 SECONDARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	5	8				
MS725STG201A	WEST SCUM TANK SHREDDER RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	6	5	9				
MS706LGT001A	WEST PRIMARY STREET LIGHTS	DI	ON	OFF	N/A	N/A	N/A	DPU 38-706	1	6	5	10				
SD706ACU001	WEST PRIMARY ELECTRICAL SMOKE ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	5	11				
FSL702PPS003	W. PRIM. SLUDGE PUMP NO. 3 (W-2) SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 38-706	1	6	5	12				
ZSO702PPS003	W. PRIM. SLUDGE PUMP NO. 3 (W-2) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 38-706	1	6	5	13				
MS725ASW200A	WEST SCUM MIXER RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	6	5	14				
HS725ASW200F	WEST SCUM MIXER ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	5	15				
HS725ASW200E	WEST SCUM MIXER L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 38-706	1	6	5	16				
XS700TSP201	W2 FLIGHT MISALIGNMENT PANEL	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	1				
XS700TSP301	W3 FLIGHT MISALIGNMENT PANEL	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	2				
XS700TSP401	W4 FLIGHT MISALIGNMENT PANEL	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	3				
ZS706MCC006A	WP-MCC006A BUS A MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 38-706	1	6	6	4				
ZS706MCC006C	WP-MCC006A/B BUS A TO B TIE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 38-706	1	6	6	5				
ZS706MCC006B	WP-MCC006B BUS B MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 38-706	1	6	6	6				
ZS706MCC007A	WP-MCC007A BUS A MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 38-706	1	6	6	7				
ZS706MCC007B	WP-MCC007B BUS B MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 38-706	1	6	6	8				
ZS706MCC007C	WP-MCC007A/B BUS A TO B TIE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 38-706	1	6	6	9				
ZSC700GPE001	SLUICE GATE FULL CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	6	10				
ZSC700GPI001	W. PRIMARY INFLUENT SLUICE GATE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	6	11				
ZSO700GPE001	SLUICE GATE FULL OPEN	DI	OPEN	OPEN	N/A	N/A	N/A	DPU 38-706	1	6	6	12				
ZSO700GPI001	W. PRIMARY INFLUENT SLUICE GATE	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 38-706	1	6	6	13				
UA701PPS001	W1 PRIMARY PUMP NO. 1 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 38-706	1	6	6	14				
UA701PPS002	W1 PRIMARY PUMP NO. 2 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 38-706	1	6	6	15				
UA701PPS003	W1 PRIMARY PUMP NO. 3 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 38-706	1	6	6	16				
WSH700TSP103	W1-3 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	1				
WSH700TSP104	W1-4 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	2				
WSH700TSP201	W2-1 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	3				
WSH700TSP202	W2-2 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	4				
WSH700TSP203	W2-3 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	5				
WSH700TSP204	W2-4 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	6				
WSH700TSP301	W3-1 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	7				
WSH700TSP302	W3-2 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	8				
WSH700TSP303	W3-3 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	9				
WSH700TSP304	W3-4 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	10				
WSH700TSP401	W4-1 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	11				
WSH700TSP402	W4-2 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	12				
WSH700TSP403	W4-3 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	13				
WSH700TSP404	W4-4 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	14				
XS700TSP001	W0 FLIGHT MISALIGNMENT PANEL	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	15				
XS700TSP101	W1 FLIGHT MISALIGNMENT PANEL	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	16				
MS702PPS002A	W2 PRIMARY PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	6	6	1				
MS702PPS003A	W2 PRIMARY PUMP NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 38-706	1	6	6	2				
TSL707MAU001	W. DRIVE BLDG FAN NO. 1 LOW AIR TEMP	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	3				
TSL708MAU001	W. SCUM BLDG FAN NO. 1 LOW AIR TEMP	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	4				
TSL709MAU001	W. WEIR BLDG FAN NO. 1 LOW AIR TEMP	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	5				
WSH700SCC001	W0 CROSS COLLECTOR HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	6				
WSH700SCC101	W1 CROSS COLLECTOR HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	7				
WSH700SCC201	W2 CROSS COLLECTOR HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	8				
WSH700SCC301	W3 CROSS COLLECTOR HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	9				
WSH700SCC401	W4 CROSS COLLECTOR HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	10				
WSH700TSP001	W0-1 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	11				
WSH700TSP002	W0-2 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	12				
WSH700TSP003	W0-3 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	13				
WSH700TSP004	W0-4 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	14				
WSH700TSP101	W1-1 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	15				
WSH700TSP102	W1-2 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 38-706	1	6	6	16				

I/O List

East Primary Sludge Pumping Station Electrical Room 716

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address											
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply			
FT723PPS006	PRIMARY SLUDGE E1&2-EAST LINE FLOW	AI	N/A	N/A	0	1300	GPM	DPU 37-716	1	1	1	1	A1(+)/B01	P1(+)/A01	SH1/A02	NO			
FT723PPS007	PRIMARY SLUDGE E1&2-WEST LINE FLOW	AI	N/A	N/A	0	1300	GPM	DPU 37-716	1	1	1	2	A2(+)/B03	P2(+)/A03	SH2/A04	NO			
FT723PPS008	SLUDGE FLOW TRANSMITTER E-1& 2	AI	N/A	N/A	0	350	GPM	DPU 37-716	1	1	1	3	A3(+)/B05	P3(+)/A05	SH3/A06	NO			
FT723PPS009	PRIMARY SLUDGE E2-EAST LINE FLOW	AI	N/A	N/A	0	650	GPM	DPU 37-716	1	1	1	4	A4(+)/B07	P4(+)/A07	SH4/A08	NO			
FT723PPS010	PRIMARY SLUDGE E2-WEST LINE FLOW	AI	N/A	N/A	0	650	GPM	DPU 37-716	1	1	1	5	A5(+)/B09	P5(+)/A09	SH5/A10	NO			
TT716DPU001	E. PRIMARY-DPU37 TEMPERATURE	AI	N/A	N/A	0	200	DEG F	DPU 37-716	1	1	1	6	A6(+)/A11	A6(-)/B11	SH6/A12	YES			
LIT725TSP100A	EAST CONCENTRATED SCUM LEVEL	AI	N/A	N/A	0	12	FT	DPU 37-716	1	1	1	7	A8(+)/A15	A8(-)/B16	SH8/A16	YES			
LIT725TSP100B	EAST UNDERFLOW SCUM LEVEL	AI	N/A	N/A	0	12	FT	DPU 37-716	1	1	1	8	A8(+)/A15	A8(-)/B16	SH8/A16	YES			
	SPARE	AI	N/A	N/A				DPU 37-716	1	1	2	1							
	SPARE	AI	N/A	N/A				DPU 37-716	1	1	2	2							
	SPARE	AI	N/A	N/A				DPU 37-716	1	1	2	3							
	SPARE	AI	N/A	N/A				DPU 37-716	1	1	2	4							
	SPARE	AI	N/A	N/A				DPU 37-716	1	1	2	5							
	SPARE	AI	N/A	N/A				DPU 37-716	1	1	2	6							
JT716USS005B	E. PRIMARY USS5B POWER USAGE	AI	N/A	N/A	0	1700	KW	DPU 37-716	1	1	2	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO			
LIT725TSP100C	EAST CONCENTRATED SCUM LEVEL	AI	N/A	N/A	0	12	FT	DPU 37-716	1	1	2	8	A8(+)/A15	A8(-)/B16	SH8/A16	YES			
LIT710SKM001A	PRIMARY E0-BAY2 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 37-716	1	1	3	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO			
LIT710SKM001B	PRIMARY E0-BAY3 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 37-716	1	1	3	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO			
LIT710SKM101A	PRIMARY E1-BAY2 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 37-716	1	1	3	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO			
LIT710SKM101B	PRIMARY E1-BAY3 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 37-716	1	1	3	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO			
LIT710SKM201A	PRIMARY E2-BAY2 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 37-716	1	1	3	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO			
LIT710SKM201B	PRIMARY E2-BAY3 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 37-716	1	1	3	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO			
LIT710SKM301A	PRIMARY E3-BAY2 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 37-716	1	1	3	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO			
LIT710SKM301B	PRIMARY E3-BAY3 WATER LEVEL	AI	N/A	N/A	0	12	INCHES	DPU 37-716	1	1	3	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO			
ST711PPS001	E1 PRIMARY PUMP NO. 1 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 37-716	1	1	4	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO			
ST711PPS002	E1 PRIMARU PUMP NO. 2 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 37-716	1	1	4	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO			
ST711PPS003	E1 PRIMARY PUMP NO. 3 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 37-716	1	1	4	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO			
ST711PPS004	E1 PRIMARY PUMP NO. 4 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 37-716	1	1	4	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO			
ST712PPS001	E2 PRIMARY PUMP NO. 1 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 37-716	1	1	4	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO			
ST712PPS002	E2 PRIMARY PUMP NO. 2 SPEED FEEDBACK	AI	N/A	N/A	0	100	%	DPU 37-716	1	1	4	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO			
ZT710SKM001	E0-BAY1 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	4	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO			
ZT710SKM002	E0-BAY2 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	4	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO			
ZT710SKM003	E0-BAY3 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	5	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO			
ZT710SKM004	E0-BAY4 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	5	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO			
ZT710SKM101	E1-BAY1 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	5	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO			
ZT710SKM102	E1-BAY2 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	5	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO			
ZT710SKM103	E1-BAY3 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	5	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO			
ZT710SKM104	E1-BAY4 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	5	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO			
ZT710SKM201	E2-BAY1 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	5	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO			
ZT710SKM202	E2-BAY2 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	5	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO			
ZT710SKM203	E2-BAY3 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	6	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO			
ZT710SKM204	E2-BAY4 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	6	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO			
ZT710SKM301	E3-BAY1 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	6	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO			
ZT710SKM302	E3-BAY2 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	6	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO			
ZT710SKM303	E3-BAY3 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	6	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO			
ZT710SKM304	E3-BAY4 SCUM SKIMMER FEEDBACK	AI	N/A	N/A	-100	100	%	DPU 37-716	1	1	6	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO			
JIT716USS005A	E. PRIMARY USS5A POWER USAGE	AI	N/A	N/A	0	1700	KW	DPU 37-716	1	1	6	7	A6(+)/A11	A6(-)/B12	SH6/A12	NO			
JIT110USS001A	ADMIN ANNEX USS-1 POWER USAGE	AI	N/A	N/A	0	120	KW	DPU 37-716	1	1	6	8	POS\A15	NEG\B16	SH\A16	NO			
ZC710SKM303B	E3-BAY3 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	3	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO			
ZC710SKM304B	E3-BAY4 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	3	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO			
	SPARE	AO	N/A	N/A				DPU 37-716	1	2	3	3							
	SPARE	AO	N/A	N/A				DPU 37-716	1	2	3	4							
ZC710SKM203B	E2-BAY3 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	4	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO			
ZC710SKM204B	E2-BAY4 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	4	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO			
ZC710SKM301B	E3-BAY1 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	4	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO			
ZC710SKM302B	E3-BAY2 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	4	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO			
ZC710SKM103B	E1-BAY3 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	5	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO			
ZC710SKM104B	E1-BAY4 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	5	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO			
ZC710SKM201B	E2-BAY1 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	5	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO			
SC711PPS004B	E1 PRIMARY PUMP NO. 4 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 37-716	1	2	5	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO			
ZC710SKM003B	E0-BAY3 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	6	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO			
SC711PPS002B	E1 PRIMARY PUMP NO. 2 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 37-716	1	2	6	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO			
SC711PPS003B	E1 PRIMARY PUMP NO. 3 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 37-716	1	2	6	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO			
ZC710SKM102B	E1-BAY2 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	6	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO			
SC712PPS001B	E2 PRIMARY PUMP NO. 1 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 37-716	1	2	7	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO			
SC712PPS002B	E2 PRIMARY PUMP NO. 2 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 37-716	1	2	7	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO			
ZC710SKM001B	E0-BAY1 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	7	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO			
ZC710SKM002B	E0-BAY2 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	7	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO			

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
SC711PPS001B	E1 PRIMARY PUMP NO. 1 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 37-716	1	2	8	1	(+)/I/A02	(-)/J/B02	SH1/C01	NO
ZC710SKM004B	E0-BAY4 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	8	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC710SKM101B	E1-BAY1 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	8	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
ZC710SKM202B	E2-BAY2 SCUM SKIMMER CONTROL	AO	N/A	N/A	-100	100	%	DPU 37-716	1	2	8	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO
HS725SDP102A	EAST SCUM DECANT PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	1				
HV710GPI001A	START MS1 SLUICE GATE OPENING	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	2	2(+)/R2	2(-)/R2	N/A	N/A
HV710GPI001B	START MS2 SLUICE GATE CLOSING	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	3	3(+)/R3	3(-)/R3	N/A	N/A
HS725SDP101A	EAST SCUM DECANT PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	4			N/A	N/A
HS725SMP101A	EAST SCUM MIXING PUMP S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	5			N/A	N/A
HS710SCC001A	E0 CROSS COLLECTOR S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	6	6(+)/R6	6(-)/R6	N/A	N/A
HS710SCC101A	E1 CROSS COLLECTOR S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	7	7(+)/R7	7(-)/R7	N/A	N/A
HS710SCC201A	E2 CROSS COLLECTOR S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	8	8(+)/R8	8(-)/R8	N/A	N/A
HS710SCC301A	E3 CROSS COLLECTOR S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	9	9(+)/R9	9(-)/R9	N/A	N/A
HS725STP102A	EAST SCUM TRANSFER PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	10			N/A	N/A
HS725STP101A	EAST SCUM TRANSFER PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	11			N/A	N/A
HS710TSP001A	E0-1 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	12	12(+)/R12	12(-)/R12	N/A	N/A
HS710TSP002A	E0-2 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	13	13(+)/R13	13(-)/R13	N/A	N/A
HS710TSP003A	E0-3 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	14	14(+)/R14	14(-)/R14	N/A	N/A
HS710TSP004A	E0-4 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	15	15(+)/R15	15(-)/R15	N/A	N/A
HS710TSP101A	E1-1 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	1	16	16(+)/R16	16(-)/R16	N/A	N/A
HS710TSP102A	E1-2 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	1	1(+)/R1	1(-)/R1	N/A	N/A
HS710TSP103A	E1-3 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	2	2(+)/R2	2(-)/R2	N/A	N/A
HS710TSP104A	E1-4 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	3	3(+)/R3	3(-)/R3	N/A	N/A
HS710TSP201A	E2-1 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	4	4(+)/R4	4(-)/R4	N/A	N/A
HS710TSP202A	E2-2 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	5	5(+)/R5	5(-)/R5	N/A	N/A
HS710TSP203A	E2-3 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	6	6(+)/R6	6(-)/R6	N/A	N/A
HS710TSP204A	E2-4 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	7	7(+)/R7	7(-)/R7	N/A	N/A
HS710TSP301A	E3-1 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	8	8(+)/R8	8(-)/R8	N/A	N/A
HS710TSP302A	E3-2 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	9	9(+)/R9	9(-)/R9	N/A	N/A
HS710TSP303A	E3-3 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	10	10(+)/R10	10(-)/R10	N/A	N/A
HS710TSP304A	E3-4 FLIGHT DRIVE S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	11	11(+)/R11	11(-)/R11	N/A	N/A
HS711PPS001A	E1 PRIMARY PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	12	12(+)/R12	12(-)/R12	N/A	N/A
HS711PPS002A	E1 PRIMARY PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	13	13(+)/R13	13(-)/R13	N/A	N/A
HS711PPS003A	E1 PRIMARY PUMP NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	14	14(+)/R14	14(-)/R14	N/A	N/A
HS711PPS004A	E1 PRIMARY PUMP NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	15	15(+)/R15	15(-)/R15	N/A	N/A
HS712PPS001A	E2 PRIMARY PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	2	16	16(+)/R16	16(-)/R16	N/A	N/A
HS712PPS002A	E2 PRIMARY PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	3	1	1(+)/R1	1(-)/R1	N/A	N/A
SPARE		DO			N/A	N/A	N/A	DPU 37-716	1	3	3	2				
HS716LGT001A	E. PRIMARY STREET LIGHT CTRL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	3	3	13(+)/R13	13(-)/R13	N/A	N/A
HV725PPS001A	E. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 1 CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 37-716	1	3	3	4				
HV725PPS001B	E. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 1 CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 37-716	1	3	3	5				
HV725WSP004A	E. WAS PS DISCHARGE DIVERSION VALVE NO. 2 CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 37-716	1	3	3	6				
HV725WSP004B	E. WAS PS DISCHARGE DIVERSION VALVE NO. 2 CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 37-716	1	3	3	7				
HV725CST001A	CONCENTRATED SCUM TO WAS (WEST) HEADER VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 37-716	1	3	3	8				
HV725CST001B	CONCENTRATED SCUM TO WAS (WEST) HEADER VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 37-716	1	3	3	9				
SPARE		DO			N/A	N/A	N/A	DPU 37-716	1	3	3	10				
SPARE		DO			N/A	N/A	N/A	DPU 37-716	1	3	3	11				
SPARE		DO			N/A	N/A	N/A	DPU 37-716	1	3	3	12				
SPARE		DO			N/A	N/A	N/A	DPU 37-716	1	3	3	13				
HS725ASW100A	EAST SCUM MIXER S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	3	14			N/A	N/A
HN716EVA001	E. PRIMARY EVACUATION ALARM	DO	START	STOP	N/A	N/A	N/A	DPU 37-716	1	3	3	15	11(+)/R11	11(-)/R11	N/A	N/A
HS100LGT001A	ADMIN ANNEX STREET LIGHT CONTROL	DO	ON	OFF	N/A	N/A	N/A	DPU 37-716	1	3	3	16	13(+)/R13	13(-)/R13	N/A	N/A
HV725PPS002A	E. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 2 OPEN	DO	OPEN	STOP	N/A	N/A	N/A	DPU 37-716	1	3	4	1				
HV725PPS002B	E. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 2 CLOSE	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 37-716	1	3	4	2				
HV725WSP001A	E. WAS PS DISCHARGE DIVERSION VALVE NO. 1 OPEN	DO	OPEN	STOP	N/A	N/A	N/A	DPU 37-716	1	3	4	3				
HV725WSP001B	E. WAS PS DISCHARGE DIVERSION VALVE NO. 1 CLOSE	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 37-716	1	3	4	4				
HV725CST001A	CONCENTRATED SCUM TO PSL (WEST) HEADER VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 37-717	1	3	4	5				
HV725CST001B	CONCENTRATED SCUM TO PSL (WEST) HEADER VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 37-718	1	3	4	6				
SPARE		DO			N/A	N/A	N/A	DPU 37-719	1	3	4	7				
SPARE		DO			N/A	N/A	N/A	DPU 37-720	1	3	4	8				
SPARE		DO			N/A	N/A	N/A	DPU 37-721	1	3	4	9				
SPARE		DO			N/A	N/A	N/A	DPU 37-722	1	3	4	10				
SPARE		DO			N/A	N/A	N/A	DPU 37-723	1	3	4	11				
SPARE		DO			N/A	N/A	N/A	DPU 37-724	1	3	4	12				
SPARE		DO			N/A	N/A	N/A	DPU 37-725	1	3	4	13				
SPARE		DO			N/A	N/A	N/A	DPU 37-726	1	3	4	14				
SPARE		DO			N/A	N/A	N/A	DPU 37-727	1	3	4	15				
SPARE		DO			N/A	N/A	N/A	DPU 37-728	1	3	4	16				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
AS717CGM001	E. DRIVE BLDG GAS PANEL STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 37-716	1	5	1	1	1(+)/A01	1(-)/B01	N/A	N/A
FSL719MAU002	E. WEIR BLDG FAN2 AIR FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	1	2	2(+)/A02	2(-)/B02	N/A	N/A
HS725STP102F	EAST SCUM TRANSFER PUMP2 ESTOP	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	1	3			N/A	N/A
ASHH717CGM001	EAST DRIVE BLDG GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	1	4	4(+)/A04	4(-)/B04	N/A	N/A
HS710GPI001E	HAND SWITCH IN REMOTE POSITION	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	1	5	5(+)/A05	5(-)/B05	N/A	N/A
HS710TSP001E	E0-1 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	1	6	6(+)/A06	6(-)/B06	N/A	N/A
HS725PPS001	E. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	1	7				
MS725STG101A	EAST SCUM TANK SHREDDER	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	1	8	POS/A08	NEG/B08	N/A	N/A
HS710TSP002F	E0-2 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	1	9	9(+)/A09	9(-)/B09	N/A	N/A
LSHH711PPS001	E1 PRIMARY STATION FLOOD LEVEL	DI	NORMAL	FLOOD	N/A	N/A	N/A	DPU 37-716	1	5	1	10	12(+)/A12	12(-)/B12	N/A	N/A
HS710SCC001F	E0 CROSS COLLECTOR ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	1	11	11(+)/A11	11(-)/B11	N/A	N/A
HS710TSP004E	E0-4 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	1	12	12(+)/A12	12(-)/B12	N/A	N/A
HS710TSP004F	E0-4 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	1	13	13(+)/A13	13(-)/B13	N/A	N/A
HS710SCC201E	E2 CROSS COLLECTOR L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	1	14	14(+)/A14	14(-)/B14	N/A	N/A
FSL718MAU001	E. SCUM BLDG FAN NO. 1 AIR FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	1	15	15(+)/A15	15(-)/B15	N/A	N/A
FSL718MAU002	E. SCUM BLDG FAN NO. 2 AIR FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	1	16	16(+)/A16	16(-)/B16	N/A	N/A
FSL719MAU001	E. WEIR BLDG FAN NO. 1 AIR FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	2	1	1(+)/A01	1(-)/B01	N/A	N/A
AS718CGM001	E. SCUM BLDG GAS PANEL STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 37-716	1	5	2	2	2(+)/A02	2(-)/B02	N/A	N/A
HS725SDP102F	EAST SCUM DECAN T PUMP NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	2	3			N/A	N/A
HS725SDP102E	EAST SCUM DECAN T PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	2	4			N/A	N/A
ASHH718CGM001	EAST SCUM BLDG HIGH GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	2	5	5(+)/A05	5(-)/B05	N/A	N/A
HS725SDP101E	EAST SCUM DECAN T PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	2	6			N/A	N/A
HS725SDP101F	EAST SCUM DECAN T PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	2	7			N/A	N/A
ZSO725PPS001	E. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 1 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	5	2	8				
HS725SMP101F	EAST SCUM MIXING PUMP ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	2	9			N/A	N/A
HS710SCC001E	E0 CROSS COLLECTOR L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	2	10	10(+)/A10	10(-)/B10	N/A	N/A
ZSC725PPS001	E. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 1 CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	5	2	11				
HS710SCC101E	E1 CROSS COLLECTOR L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	2	12	12(+)/A12	12(-)/B12	N/A	N/A
HS710SCC101F	E1 CROSS COLLECTOR ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	2	13	13(+)/A13	13(-)/B13	N/A	N/A
FSL717MAU002	E. DRIVE BLDG FAN NO. 2 AIR FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	2	14	14(+)/A14	14(-)/B14	N/A	N/A
HS710SCC201F	E2 CROSS COLLECTOR ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	2	15	15(+)/A15	15(-)/B15	N/A	N/A
HS710SCC301E	E3 CROSS COLLECTOR L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	2	16	16(+)/A16	16(-)/B16	N/A	N/A
HS710SCC301F	E3 CROSS COLLECTOR ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	3	1	1(+)/A01	1(-)/B01	N/A	N/A
HS725STP102E	EAST SCUM TRANSFER PUMP NO. 2 L-O-R	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	3	2			N/A	N/A
AS719CGM001	E. WEIR BLDG GAS PANEL STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 37-716	1	5	3	3	3(+)/A03	3(-)/B03	N/A	N/A
HS725STP101E	EAST SCUM TRANSFER PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	3	4			N/A	N/A
HS725STP101F	EAST SCUM TRANSFER PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	3	5			N/A	N/A
ASHH719CGM001	EAST WEIR BLDG HIGH GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	3	6	6(+)/A06	6(-)/B06	N/A	N/A
HS710TSP001F	E0-1 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	3	7	7(+)/A07	7(-)/B07	N/A	N/A
HS710TSP002E	E0-2 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	3	8	8(+)/A08	8(-)/B08	N/A	N/A
HS725WSP004	E. WAS PS DISCHARGE DIVERSION VALVE NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	3	9				
HS710TSP003E	E0-3 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	3	10	10(+)/A10	10(-)/B10	N/A	N/A
HS710TSP003F	E0-3 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	3	11	11(+)/A11	11(-)/B11	N/A	N/A
LSHH712PPS001	E2 PRIMARY STATION FLOOD LEVEL	DI	NORMAL	FLOOD	N/A	N/A	N/A	DPU 37-716	1	5	3	12	12(+)/A12	12(-)/B12	N/A	N/A
FSL717MAU001	E. DRIVE BLDG FAN NO. 1 AIR FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	3	13	13(+)/A13	13(-)/B13	N/A	N/A
HS710TSP101E	E1-1 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	3	14	14(+)/A14	14(-)/B14	N/A	N/A
HS710TSP101F	E1-1 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	3	15	15(+)/A15	15(-)/B15	N/A	N/A
HS710TSP102E	E1-2 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	3	16	16(+)/A16	16(-)/B16	N/A	N/A
HS710TSP102F	E1-2 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	4	1	1(+)/A01	1(-)/B01	N/A	N/A
HS710TSP103E	E1-3 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	4	2	2(+)/A02	2(-)/B02	N/A	N/A
HS710TSP103F	E1-3 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	4	3	3(+)/A03	3(-)/B03	N/A	N/A
HS710TSP104E	E1-4 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	4	4	4(+)/A04	4(-)/B04	N/A	N/A
HS710TSP104F	E1-4 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	4	5	5(+)/A05	5(-)/B05	N/A	N/A
HS710TSP201E	E2-1 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	4	6	6(+)/A06	6(-)/B06	N/A	N/A
HS710TSP201F	E2-1 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	4	7	7(+)/A07	7(-)/B07	N/A	N/A
HS710TSP202E	E2-2 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	4	8	8(+)/A08	8(-)/B08	N/A	N/A
HS710TSP202F	E2-2 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	4	9	9(+)/A09	9(-)/B09	N/A	N/A
HS710TSP203E	E2-3 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	4	10	10(+)/A10	10(-)/B10	N/A	N/A
HS710TSP203F	E2-3 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	4	11	11(+)/A11	11(-)/B11	N/A	N/A
HS710TSP204E	E2-4 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	4	12	12(+)/A12	12(-)/B12	N/A	N/A
HS710TSP204F	E2-4 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	4	13	13(+)/A13	13(-)/B13	N/A	N/A
HS710TSP301E	E3-1 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	4	14	14(+)/A14	14(-)/B14	N/A	N/A
HS710TSP301F	E3-1 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	4	15	15(+)/A15	15(-)/B15	N/A	N/A
HS710TSP302E	E3-2 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	4	16	16(+)/A16	16(-)/B16	N/A	N/A
HS710TSP302F	E3-2 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	5	1	1(+)/A01	1(-)/B01	N/A	N/A
HS710TSP303E	E3-3 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	5	2	2(+)/A02	2(-)/B02	N/A	N/A
HS710TSP303F	E3-3 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	5	3	3(+)/A03	3(-)/B03	N/A	N/A
HS710TSP304E	E3-4 FLIGHT DRIVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	5	4	4(+)/A04	4(-)/B04	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HS710TSP304F	E3-4 FLIGHT DRIVE ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	5	5	5(+)/A05	5(-)/B05	N/A	N/A
HS711PPS001E	E1 PRIMARY PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	5	6	6(+)/A06	6(-)/B06	N/A	N/A
HS711PPS001F	E1 PRIMARY PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	5	7	7(+)/A07	7(-)/B07	N/A	N/A
HS711PPS002E	E1 PRIMARY PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	5	8	8(+)/A08	8(-)/B08	N/A	N/A
HS711PPS002F	E1 PRIMARY PUMP NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	5	9	9(+)/A09	9(-)/B09	N/A	N/A
HS711PPS003E	E1 PRIMARY PUMP NO. 3 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	5	10	10(+)/A10	10(-)/B10	N/A	N/A
HS711PPS003F	E1 PRIMARY PUMP NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	5	11	11(+)/A11	11(-)/B11	N/A	N/A
HS711PPS004E	E1 PRIMARY PUMP NO. 4 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	5	12	12(+)/A12	12(-)/B12	N/A	N/A
HS711PPS004F	E1 PRIMARY PUMP NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	5	13	13(+)/A13	13(-)/B13	N/A	N/A
HS712PPS001E	E2 PRIMARY PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	5	14	14(+)/A14	14(-)/B14	N/A	N/A
HS712PPS001F	E2 PRIMARY PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	5	15	15(+)/A15	15(-)/B15	N/A	N/A
HS712PPS002E	E2 PRIMARY PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	5	5	16	16(+)/A16	16(-)/B16	N/A	N/A
HS712PPS002F	E2 PRIMARY PUMP NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	6	1	1(+)/A01	1(-)/B01	N/A	N/A
MS725SDP102A	EAST SCUM DECANT PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	2			N/A	N/A
MS725SDP101A	EAST SCUM DECANT PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	3			N/A	N/A
MS725SMP101A	EAST SCUM MIXING PUMP RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	4			N/A	N/A
MS710SCC001A	E0 CROSS COLLECTOR RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	5	2(+)/A02	2(-)/B02	N/A	N/A
MS710SCC101A	E1 CROSS COLLECTOR RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	6	2(+)/A02	2(-)/B02	N/A	N/A
MS710SCC201A	E2 CROSS COLLECTOR RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	7	2(+)/A02	2(-)/B02	N/A	N/A
MS710SCC301A	E3 CROSS COLLECTOR RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	8	2(+)/A02	2(-)/B02	N/A	N/A
MS725STP102A	EAST SCUM TRANSFER PUMP NO. 2	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	9			N/A	N/A
MS725STP101A	EAST SCUM TRANSFER PUMP NO. 1	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	10			N/A	N/A
MS710TSP001A	E0-1 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	11	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP002A	E0-2 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	12	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP003A	E0-3 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	13	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP004A	E0-4 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	14	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP101A	E1-1 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	15	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP102A	E1-2 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	6	16	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP103A	E1-3 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	1	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP104A	E1-4 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	2	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP201A	E2-1 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	3	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP202A	E2-2 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	4	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP203A	E2-3 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	5	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP204A	E2-4 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	6	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP301A	E3-1 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	7	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP302A	E3-2 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	8	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP303A	E3-3 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	9	2(+)/A02	2(-)/B02	N/A	N/A
MS710TSP304A	E3-4 FLIGHT DRIVE RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	10	2(+)/A02	2(-)/B02	N/A	N/A
MS711PPS001A	E1 PRIMARY PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	11	2(+)/A02	2(-)/B02	N/A	N/A
MS711PPS002A	E1 PRIMARY PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	12	2(+)/A02	2(-)/B02	N/A	N/A
MS711PPS003A	E1 PRIMARY PUMP NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	13	2(+)/A02	2(-)/B02	N/A	N/A
MS711PPS004A	E1 PRIMARY PUMP NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	14	2(+)/A02	2(-)/B02	N/A	N/A
MS712PPS001A	E2 PRIMARY PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	15	2(+)/A02	2(-)/B02	N/A	N/A
MS712PPS002A	E2 PRIMARY PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	5	7	16	2(+)/A02	2(-)/B02	N/A	N/A
TSL717MAU001	E. DRIVE BLDG FAN NO. 1 LOW AIR TEMP	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	1	1(+)/A01	1(-)/B01	N/A	N/A
TSL717MAU002	E. DRIVE BLDG FAN NO. 2 LOW AIR TEMP	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	2	2(+)/A02	2(-)/B02	N/A	N/A
TSL718MAU001	E. SCUM BLDG FAN NO. 1 LOW AIR TEMP	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	3	3(+)/A03	3(-)/B03	N/A	N/A
TSL718MAU002	E. SCUM BLDG FAN NO. 2 LOW AIR TEMP	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	4	4(+)/A04	4(-)/B04	N/A	N/A
TSL719MAU001	E. WEIR BLDG FAN NO. 1 LOW AIR TEMP	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	5	5(+)/A05	5(-)/B05	N/A	N/A
TSL719MAU002	E. WEIR BLDG FAN NO. 2 LOW AIR TEMP	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	6	6(+)/A06	6(-)/B06	N/A	N/A
WSH710SCC001	E0 CROSS COLLECTOR HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	7	7(+)/A07	7(-)/B07	N/A	N/A
WSH710SCC101	E1 CROSS COLLECTOR HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	8	8(+)/A08	8(-)/B08	N/A	N/A
WSH710SCC201	E2 CROSS COLLECTOR HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	9	9(+)/A09	9(-)/B09	N/A	N/A
WSH710SCC301	E3 CROSS COLLECTOR HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	10	10(+)/A10	10(-)/B10	N/A	N/A
WSH710TSP001	E0-1 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	11	11(+)/A11	11(-)/B11	N/A	N/A
WSH710TSP002	E0-2 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	12	12(+)/A12	12(-)/B12	N/A	N/A
WSH710TSP003	E0-3 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	13	13(+)/A13	13(-)/B13	N/A	N/A
WSH710TSP004	E0-4 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	14	14(+)/A14	14(-)/B14	N/A	N/A
WSH710TSP101	E1-1 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	15	15(+)/A15	15(-)/B15	N/A	N/A
WSH710TSP102	E1-2 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	5	8	16	16(+)/A16	16(-)/B16	N/A	N/A
ZSO711PPS001A	PRIMARY TREATMENT TANK E-0 SLUDGE VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	1				
ZSC711PPS001A	PRIMARY TREATMENT TANK E-0 SLUDGE VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	2				
ZSO711PPS007	E1 PRIMARY SLUDGE PUMP NO. 1 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	3				
ZSC711PPS007	E1 PRIMARY SLUDGE PUMP NO. 1 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	4				
ZSO725WSP004	E. WAS PS DISCHARGE DIVERSION VALVE NO. 2 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	5				
ZSC725WSP004	E. WAS PS DISCHARGE DIVERSION VALVE NO. 2 CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	6				
FSL711PPS001	E1 PRIMARY PUMP NO. 1 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 37-716	1	6	2	7				
ZSO711PPS001	E1 PRIMARY PUMP NO. 1 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 37-716	1	6	2	8				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
ZSO712PPS001A	PRIMARY TREATMENT TANK E-3 SLUDGE VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	9				
ZSC712PPS001A	PRIMARY TREATMENT TANK E-3 SLUDGE VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	10				
ZSO712PPS002A	PRIMARY TREATMENT TANK E-3 TO PRIM. SLUDGE PMP NO. 2 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	11				
ZSC712PPS002A	PRIMARY TREATMENT TANK E-3 TO PRIM. SLUDGE PMP NO. 2 VALVE CLOSE	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	12				
ZSO712PPS004	E2 PRIMARY SLUDGE PUMP NO. 2 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	13				
ZSC712PPS004	E2 PRIMARY SLUDGE PUMP NO. 2 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	2	14				
FSL712PPS002	E2 PRIMARY PUMP NO. 2 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 37-716	1	6	2	15				
ZSO712PPS002	E2 PRIMARY PUMP NO. 2 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 37-716	1	6	2	16				
ZSO711PPS002A	PRIMARY TREATMENT TANK E-1 SLUDGE VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	3	1				
ZSC711PPS002A	PRIMARY TREATMENT TANK E-1 SLUDGE VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	3	2				
ZSO711PPS008	E1 PRIMARY SLUDGE PUMP NO. 2 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	3	3				
ZSC711PPS008	E1 PRIMARY SLUDGE PUMP NO. 2 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	3	4				
ZSO711PPS004A	PRIMARY TREATMENT TANK E-0 TO PRIM. SLUDGE PMP NO. 2 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	3	5				
ZSC711PPS004A	PRIMARY TREATMENT TANK E-0 TO PRIM. SLUDGE PMP NO. 2 VALVE CLOSE	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	3	6				
HS725CST001	CONCENTRATED SCUM TO WAS (WEST) HEADER VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	6	3	7				
ZSO725CST001	CONCENTRATED SCUM TO WAS (WEST) HEADER VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	3	8				
ZSC725CST001	CONCENTRATED SCUM TO WAS (WEST) HEADER VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	3	9				
	SPARE	DI			N/A	N/A	N/A	DPU 37-716	1	6	3	10				
	SPARE	DI			N/A	N/A	N/A	DPU 37-716	1	6	3	11				
	SPARE	DI			N/A	N/A	N/A	DPU 37-716	1	6	3	12				
	SPARE	DI			N/A	N/A	N/A	DPU 37-716	1	6	3	13				
	SPARE	DI			N/A	N/A	N/A	DPU 37-716	1	6	3	14				
	SPARE	DI			N/A	N/A	N/A	DPU 37-716	1	6	3	15				
	SPARE	DI			N/A	N/A	N/A	DPU 37-716	1	6	3	16				
ZSO711PPS005	PRIMARY TREATMENT TANK E-1 TO PRIM. SLUDGE PMP NO. 3 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	4	1				
ZSC711PPS005	PRIMARY TREATMENT TANK E-1 TO PRIM. SLUDGE PMP NO. 3 VALVE CLOSE	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	4	2				
ZSO711PPS006	PRIMARY TREATMENT TANK E-2 TO PRIM. SLUDGE PMP NO. 3 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	4	3				
ZSC711PPS006	PRIMARY TREATMENT TANK E-2 TO PRIM. SLUDGE PMP NO. 3 VALVE CLOSE	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	4	4				
ZSO711PPS009	E1 PRIMARY SLUDGE PUMP NO. 3 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	4	5				
ZSC711PPS009	E1 PRIMARY SLUDGE PUMP NO. 3 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	4	6				
	SPARE	DI			N/A	N/A	N/A	DPU 37-716	1	6	4	7				
ZSO712PPS003	E2 PRIMARY SLUDGE PUMP NO. 1 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	4	8				
ZSC712PPS003	E2 PRIMARY SLUDGE PUMP NO. 1 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-717	1	6	4	9				
FSL711PPS003	E1 PRIMARY PUMP NO. 3 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 37-718	1	6	4	10				
ZSO711PPS003	E1 PRIMARY PUMP NO. 3 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 37-719	1	6	4	11				
ZSO711PPS003A	PRIMARY TREATMENT TANK E-2 SLUDGE VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-720	1	6	4	12				
ZSC711PPS003A	PRIMARY TREATMENT TANK E-2 SLUDGE VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-721	1	6	4	13				
ZSO711PPS010	E1 PRIMARY SLUDGE PUMP NO. 4 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-722	1	6	4	14				
ZSC711PPS010	E1 PRIMARY SLUDGE PUMP NO. 4 INLET VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-723	1	6	4	15				
	SPARE	DI			N/A	N/A	N/A	DPU 37-724	1	6	4	16				
UA711PPS002	E1 PRIMARY PUMP NO. 2 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 37-716	1	6	5	1	1(+)/A01	1(-)/B01	N/A	N/A
UA711PPS003	E1 PRIMARY PUMP NO. 3 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 37-716	1	6	5	2	2(+)/A02	2(-)/B02	N/A	N/A
UA712PPS001	E2 PRIMARY PUMP NO. 1 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 37-716	1	6	5	3	3(+)/A03	3(-)/B03	N/A	N/A
UA712PPS002	E2 PRIMARY PUMP NO. 2 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 37-716	1	6	5	4	4(+)/A04	4(-)/B04	N/A	N/A
EN716UPS001	DPU37 UPS STATUS	DI	BATTERY	OFF	N/A	N/A	N/A	DPU 37-716	1	6	5	5	5(+)/A05	5(-)/B05	N/A	N/A
EAM716UPS001	DPU37 UPS ALARM STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 37-716	1	6	5	6	6(+)/A06	6(-)/B06	N/A	N/A
EAF716PNL100	DPU37 PRIMARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	5	7	7(+)/A07	7(-)/B07	N/A	N/A
EAF716PNL101	DPU37 SECONDARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	5	8	8(+)/A08	8(-)/B08	N/A	N/A
MS100LGT001A	ADMIN. ANNEX STREET LIGHTS	DI	ON	OFF	N/A	N/A	N/A	DPU 37-716	1	6	5	9	13(+)/R13	13(-)/R13	N/A	N/A
MS176LGT001A	EAST PRIMARY STREET LIGHTS	DI	ON	OFF	N/A	N/A	N/A	DPU 37-716	1	6	5	10	13(+)/R13	13(-)/R13	N/A	N/A
HS725WSP001	E. WAS PS DISCHARGE DIVERSION VALVE NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	6	5	11				
	SPARE	DI			N/A	N/A	N/A	DPU 37-716	1	6	5	12				
MS725STG102A	EAST SCUM TANK GRINDER RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	6	5	13	POS/A13	NEG/B13	N/A	N/A
MS725ASW100A	EAST SCUM MIXER RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 37-716	1	6	5	14			N/A	N/A
HS725ASW100F	EAST SCUM MIXER ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	5	15			N/A	N/A
HS725ASW100E	EAST SCUM MIXER L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	6	5	16			N/A	N/A
ZSO725WSP001	E. WAS PS DISCHARGE DIVERSION VALVE NO. 1 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	6	1				
ZSC725WSP001	E. WAS PS DISCHARGE DIVERSION VALVE NO. 1 CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	6	2				
ZS716USS005A	EP-USS005A BUS A MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	6	3	3(+)/A03	3(-)/B03	N/A	N/A
ZS716USS005B	EP-USS005B BUS B MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	6	4	4(+)/A04	4(-)/B04	N/A	N/A
ZS716USS005C	EP-USS005A/B BUS A TO B TIE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	6	5	5(+)/A05	5(-)/B05	N/A	N/A
ZS716USS005D	EP-USS005A FEED TO MCC004A BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	6	6	6(+)/A06	6(-)/B06	N/A	N/A
ZS716USS005E	EP-USS005A FEED TO MCC005A BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	6	7	7(+)/A07	7(-)/B07	N/A	N/A
ZS716USS005F	EP-USS005A FEED TO LAB BLDG BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	6	8	8(+)/A08	8(-)/B08	N/A	N/A
ZS716USS005G	EP-USS005A FEED TO TEMP TOWER CRANES BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	6	9	9(+)/A09	9(-)/B09	N/A	N/A
ZS716USS005H	EP-USS005B FEED TO MCC004B BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	6	10	10(+)/A10	10(-)/B10	N/A	N/A
ZS716USS005I	EP-USS005B FEED TO MCC005B BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	6	11	11(+)/A11	11(-)/B11	N/A	N/A
ZS716USS005J	EP-USS005B FEED TO LAB BLDG BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	6	12	12(+)/A12	12(-)/B12	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
ZS716USS005K	EP-USS005B SPARE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	6	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSC710GPI001	E. PRIMARY INFLUENT SLUICE GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	6	14	14(+)/A14	14(-)/B14	N/A	N/A
ZSO710GPI001	E. PRIMARY INFLUENT SLUICE GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	6	15	15(+)/A15	15(-)/B15	N/A	N/A
UA711PPS001	E1 PRIMARY PUMP NO. 1 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 37-716	1	6	6	16	16(+)/A16	16(-)/B16	N/A	N/A
HS725PPS002	E. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	6	7	1				
ZSO725PPS002	E. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 2 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	7	2				
ZSC725PPS002	E. PRIM. SLUDGE PS DISCHARGE DIVERSION VALVE NO. 2 CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	7	3				
FSL711PPS002	E1 PRIMARY PUMP NO. 2 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 37-716	1	6	7	4				
ZSO711PPS002	E1 PRIMARY PUMP NO. 2 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 37-716	1	6	7	5				
FSL711PPS004	E1 PRIMARY PUMP NO. 4 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 37-716	1	6	7	6				
ZSO711PPS004	E1 PRIMARY PUMP NO. 4 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 37-716	1	6	7	7				
FSL712PPS001	E2 PRIMARY PUMP NO. 1 SEAL WATER STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 37-716	1	6	7	8				
ZSO712PPS001	E2 PRIMARY PUMP NO. 1 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 37-716	1	6	7	9				
HS725CST002	CONCENTRATED SCUM TO PSL (WEST) HEADER VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 37-716	1	6	7	10				
ZSO725CST002	CONCENTRATED SCUM TO PSL (WEST) HEADER VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	7	11				
ZSC725CST002	CONCENTRATED SCUM TO PSL (WEST) HEADER VALVE CLOSED	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 37-716	1	6	7	12				
	SPARE	DI			N/A	N/A	N/A	DPU 37-716	1	6	7	13				
UA711PPS004	E1 PRIMARY PUMP NO. 4 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 37-716	1	6	7	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS716MCC004C	EP-MCC004A/B BUS A TO B TIE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 37-716	1	6	7	15	15(+)/A15	15(-)/B15	N/A	N/A
	SPARE	DI			N/A	N/A	N/A	DPU 37-716	1	6	7	16				
WSH710TSP103	E1-3 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	1	1(+)/A01	1(-)/B01	N/A	N/A
WSH710TSP104	E1-4 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	2	2(+)/A02	2(-)/B02	N/A	N/A
WSH710TSP201	E2-1 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	3	3(+)/A03	3(-)/B03	N/A	N/A
WSH710TSP202	E2-2 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	4	4(+)/A04	4(-)/B04	N/A	N/A
WSH710TSP203	E2-3 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	5	5(+)/A05	5(-)/B05	N/A	N/A
WSH710TSP204	E2-4 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	6	6(+)/A06	6(-)/B06	N/A	N/A
WSH710TSP301	E3-1 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	7	7(+)/A07	7(-)/B07	N/A	N/A
WSH710TSP302	E3-2 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	8	8(+)/A08	8(-)/B08	N/A	N/A
WSH710TSP303	E3-3 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	9	9(+)/A09	9(-)/B09	N/A	N/A
WSH710TSP304	E3-4 FLIGHT DRIVE HIGH TORQUE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	10	10(+)/A10	10(-)/B10	N/A	N/A
XS710TSP001	E0 FLIGHT MISALIGNMENT FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	11	11(+)/A11	11(-)/B11	N/A	N/A
XS710TSP101	E1 FLIGHT MISALIGNMENT FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	12	12(+)/A12	12(-)/B12	N/A	N/A
XS710TSP201	E2 FLIGHT MISALIGNMENT FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	13	13(+)/A13	13(-)/B13	N/A	N/A
XS710TSP301	E3 FLIGHT MISALIGNMENT FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	14	14(+)/A14	14(-)/B14	N/A	N/A
	SPARE	DI							1	6	8	15				
SD716ACU001	EAST PRIMARY ELECTRICAL SMOKE ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 37-716	1	6	8	16			N/A	N/A

I/O List

West Aeration Basins Electrical Room 834

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
ZC830ABN001B	BASIN WA1-PASS NO. 3 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	1	1				NO
ZC830ABN001A	BASIN WA1-PASS NO. 1 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	1	2				NO
ZC831ABN001	BASIN WA1-CHANNEL AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	1	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
SC831WSP001	WAS PUMP NO. 1 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	1	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO
ZC832ABN001	BASIN WA1-INFLUENT CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	2	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC832ABN001A	BASIN WA1-PASS NO. 2 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	2	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC832ABN001B	BASIN WA1-PASS NO. 3 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	2	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
SC831WSP002	WAS PUMP NO. 2 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	2	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO
ZC830ABN002A	BASIN WA2-PASS NO. 1 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	3	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC830ABN002B	BASIN WA2-PASS NO. 4 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	3	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC831ABN002	BASIN WA2-CHANNEL AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	3	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
SC831WSP003	WAS PUMP NO. 3 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	3	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO
ZC832ABN002	BASIN WA2-INFLUENT CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	4	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC832ABN002A	BASIN WA2-PASS NO. 2 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	4	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC832ABN002B	BASIN WA2-PASS NO. 3 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	4	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
SC831WSP004	WAS PUMP NO. 4 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	4	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO
ZC830ABN003A	BASIN WA3-PASS NO. 1 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	5	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC830ABN003B	BASIN WA3-PASS NO. 4 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	5	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC831ABN003	BASIN WA3-CHANNEL AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	5	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
SC831WSP005	WAS PUMP NO. 5 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	5	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO
ZC832ABN003	BASIN WA3-INFLUENT CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	6	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC832ABN003A	BASIN WA3-PASS NO. 2 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	6	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC832ABN003B	BASIN WA3-PASS NO. 3 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	6	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
SC831WSP006	WAS PUMP NO. 6 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	6	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO
ZC830ABN004A	BASIN WA4-PASS NO. 1 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	7	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC830ABN004B	BASIN WA4-PASS NO. 4 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	7	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC831ABN004	BASIN WA4-CHANNEL AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	7	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
SC842PBF001	BISULF FEED PUMP NO. 1 SPEED SIGNAL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	7	4	(+)/I3/A14	(-)/J3/B14	SH3/C13	NO
ZC832ABN004	BASIN WA4-INFLUENT CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	8	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC832ABN004A	BASIN WA4-PASS NO. 2 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	8	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC832ABN004B	BASIN WA4-PASS NO. 3 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	8	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
SC842PBF002	BISULF FEED PUMP NO. 2 SPEED SIGNAL	AO	N/A	N/A	0	100 %		DPU 42-834	1	1	8	4	(+)/I3/A14	(-)/J3/B14	SH3/C13	NO
AIT830ABN001A	BASIN WA1-PASS NO. 1 OUTLET D.O.	AI	N/A	N/A	0	10 PPM		DPU 42-834	1	2	1	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
AIT830ABN001B	BASIN WA1-PASS NO. 4 OUTLET D.O.	AI	N/A	N/A	0	10 PPM		DPU 42-834	1	2	1	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
AIT832ABN001A	BASIN WA1-PASS NO. 2 OUTLET D.O.	AI	N/A	N/A	0	10 PPM		DPU 42-834	1	2	1	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
AIT832ABN001B	BASIN WA1-PASS NO. 3 OUTLET D.O.	AI	N/A	N/A	0	10 PPM		DPU 42-834	1	2	1	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
FIT832ABN004	BASIN WA4-INFLUENT FLOW	AI	N/A	N/A	0	54 MGD		DPU 42-834	1	2	1	5	A4(+)/A07	A4(-)/B07	SH4/A08	NO
ZIT830ABN001A	BASIN WA1-PASS NO. 1 VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	1	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ZIT830ABN001B	BASIN WA1-PASS NO. 4 VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	1	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ST831WSP001	WAS PUMP NO. 1 SPEED	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	1	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
ZIT831ABN001	BASIN WA1-CHANNEL VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	2	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ZIT832ABN001	BASIN WA1-INFLUENT VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	2	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
ZIT832ABN001A	BASIN WA1-PASS NO. 2 VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	2	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ZIT832ABN001B	BASIN WA1-PASS NO. 3 VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	2	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
ZIT832GSL101	BASIN WA1-PASS NO. 2 IN-GATE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	2	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ZIT832GSL102	BASIN WA1-PASS NO. 3 IN-GATE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	2	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ZIT832GSL103	BASIN WA1-PASS NO. 3 OUT-GATE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	2	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
AIT830ABN002A	BASIN WA2-PASS NO. 1 OUTLET D.O.	AI	N/A	N/A	0	10 PPM		DPU 42-834	1	2	2	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
ST831WSP002	WAS PUMP NO. 2 SPEED	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	3	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
AIT830ABN002B	BASIN WA2-PASS NO. 4 OUTLET D.O.	AI	N/A	N/A	0	10 PPM		DPU 42-834	1	2	3	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
AIT832ABN002A	BASIN WA2-PASS NO. 2 OUTLET D.O.	AI	N/A	N/A	0	10 PPM		DPU 42-834	1	2	3	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
AIT832ABN002B	BASIN WA2-PASS NO. 3 OUTLET D.O.	AI	N/A	N/A	0	10 PPM		DPU 42-834	1	2	3	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
FIT832ABN003	BASIN WA3-INFLUENT FLOW	AI	N/A	N/A	0	55 MGD		DPU 42-834	1	2	3	5	A4(+)/A07	A4(-)/B07	SH4/A08	NO
ZIT830ABN002A	BASIN WA2-PASS NO. 1 VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	3	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ZIT830ABN002B	BASIN WA2-PASS NO. 4 VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	3	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ST831WSP003	WAS PUMP NO. 3 SPEED	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	3	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
ZIT831ABN002	BASIN WA2-CHANNEL VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	4	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ZIT832ABN002	BASIN WA2-INFLUENT VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	4	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
ZIT832ABN002A	BASIN WA2-PASS NO. 2 VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	4	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ZIT832ABN002B	BASIN WA2-PASS NO. 3 VALVE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	4	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
ZIT832GSL201	BASIN WA2-PASS NO. 2 IN-GATE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	4	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ZIT832GSL202	BASIN WA2-PASS NO. 3 IN-GATE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	4	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ZIT832GSL203	BASIN WA2-PASS NO. 3 OUT-GATE STATUS	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	4	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ST831WSP004	WAS PUMP NO. 4 SPEED	AI	N/A	N/A	0	100 %		DPU 42-834	1	2	4	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
AIT830ABN003A	BASIN WA3-PASS NO. 1 OUTLET D.O.	AI	N/A	N/A	0	10 PPM		DPU 42-834	1	2	5	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
AIT830ABN003B	BASIN WA3-PASS NO. 4 OUTLET D.O.	AI	N/A	N/A	0	10 PPM		DPU 42-834	1	2	5	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
AIT832ABN003A	BASIN WA3-PASS NO. 2 OUTLET D.O.	AI	N/A	N/A	0	10 PPM	DPU 42-834	1	2	5	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO	
AIT832ABN003B	BASIN WA3-PASS NO. 3 OUTLET D.O.	AI	N/A	N/A	0	10 PPM	DPU 42-834	1	2	5	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO	
FIT832ABN002	BASIN WA2-INFLUENT FLOW	AI	N/A	N/A	0	55 MGD	DPU 42-834	1	2	5	5	A4(+)/A07	A4(-)/B07	SH4/A08	NO	
ZIT830ABN003A	BASIN WA3-PASS NO. 1 VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	5	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO	
ZIT830ABN003B	BASIN WA3-PASS NO. 4 VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	5	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO	
ST831WSP005	WAS PUMP NO. 5 SPEED	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	5	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO	
ZIT832ABN003	BASIN WA3-INFLUENT VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	6	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO	
ZIT832ABN003A	BASIN WA3-PASS NO. 2 VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	6	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO	
ZIT832ABN003B	BASIN WA3-PASS NO. 3 VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	6	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO	
ZIT832GSL301	BASIN WA3-PASS NO. 2 IN-GATE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	6	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO	
ZIT832GSL302	BASIN WA3-PASS NO. 3 IN-GATE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	6	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO	
ZIT832GSL303	BASIN WA3-PASS NO. 3 OUT-GATE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	6	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO	
ZIT831ABN003	BASIN WA3-CHANNEL VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	6	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO	
ST831WSP006	WAS PUMP NO. 6 SPEED	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	6	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO	
AIT830ABN004A	BASIN WA4-PASS NO. 1 OUTLET D.O.	AI	N/A	N/A	0	10 PPM	DPU 42-834	1	2	7	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO	
AIT835ABN002B	WEST MIXED LIQUOR D.O.	AI	N/A	N/A	0	10 PPM	DPU 42-834	1	2	7	2	POS/A03	NEG/B04	SH/A04	NO	
AIT832ABN004A	PILOT PLANT CL2 ANALZER OUT	AI	N/A	N/A	0	10 PPM	DPU 42-834	1	2	7	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO	
AIT832ABN004B	PILOT PLANT CL2 ANALYZER IN	AI	N/A	N/A	0	10 PPM	DPU 42-834	1	2	7	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO	
FIT832ABN001	BASIN WA1-INFLUENT FLOW	AI	N/A	N/A	0	55 MGD	DPU 42-834	1	2	7	5	A4(+)/A07	A4(-)/B07	SH4/A08	NO	
ZIT830ABN004A	BASIN WA4-PASS NO. 1 VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	7	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO	
ZIT830ABN004B	BASIN WA4-PASS NO. 4 VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	7	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO	
JIT834MCC037B	W. AERATION MCC37B POWER USAGE	AI	N/A	N/A	0	700 KW	DPU 42-834	1	2	7	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO	
ZIT831ABN004	BASIN WA4-CHANNEL VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	8	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO	
ZIT832ABN004	BASIN WA4-INFLUENT VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	8	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO	
ZIT832ABN004A	BASIN WA4-PASS NO. 2 VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	8	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO	
ZIT832ABN004B	BASIN WA4-PASS NO. 3 VALVE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	8	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO	
ZIT832GSL401	BASIN WA4-PASS NO. 2 IN-GATE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	8	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO	
ZIT832GSL402	BASIN WA4-PASS NO. 3 IN-GATE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	8	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO	
ZIT832GSL403	BASIN WA4-PASS NO. 3 OUT-GATE STATUS	AI	N/A	N/A	0	100 %	DPU 42-834	1	2	8	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO	
JIT834MCC037A	W. AERATION MCC37A POWER USAGE	AI	N/A	N/A	0	700 KW	DPU 42-834	1	2	8	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO	
HV830ABN001AE	BASIN WA1-PASS NO. 1 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	1	1	1(+)/A01	1(-)/B01	N/A	N/A
HV830ABN001BE	BASIN WA1-PASS NO. 4 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	1	2	2(+)/A02	2(-)/B02	N/A	N/A
HV830GSL101E	BASIN WA1-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	1	3	3(+)/A03	3(-)/B03	N/A	N/A
HV830GSL102E	BASIN WA1-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	1	4	4(+)/A04	4(-)/B04	N/A	N/A
HV831ABN001E	BASIN WA1-CHANNEL AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	1	5	5(+)/A05	5(-)/B05	N/A	N/A
HV832ABN001AE	BASIN WA1-PASS NO. 2 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	1	6	6(+)/A06	6(-)/B06	N/A	N/A
HV832ABN001BE	BASIN WA1-PASS NO. 3 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	1	7	7(+)/A07	7(-)/B07	N/A	N/A
HV832ABN001E	BASIN WA1-INFLUENT VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	1	8	8(+)/A08	8(-)/B08	N/A	N/A
HV832GSL101E	BASIN WA1-PASS NO. 2 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	1	9	9(+)/A09	9(-)/B09	N/A	N/A
HV832GSL102E	BASIN WA1-PASS NO. 3 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	1	10	10(+)/A10	10(-)/B10	N/A	N/A
HV832GSL103E	BASIN WA1-PASS NO. 3 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	1	11	11(+)/A11	11(-)/B11	N/A	N/A
ZSC830GSL101	BASIN WA1-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	3	1	12	12(+)/A12	12(-)/B12	N/A	N/A
ZSC830GSL102	BASIN WA1-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	3	1	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSO830GSL101	BASIN WA1-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	3	1	14	14(+)/A14	14(-)/B14	N/A	N/A
ZSO830GSL102	BASIN WA1-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	3	1	15	15(+)/A15	15(-)/B15	N/A	N/A
ESMS200A	ELLA STREET STORM PUMP 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834	1	3	1	16	16(+)/A16	16(-)/B16	N/A	N/A
HV830ABN002AE	BASIN WA2-PASS NO. 1 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	2	1	1(+)/A01	1(-)/B01	N/A	N/A
HV830ABN002BE	BASIN WA2-PASS NO. 4 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	2	2	2(+)/A02	2(-)/B02	N/A	N/A
HV830GSL201E	BASIN WA2-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	2	3	3(+)/A03	3(-)/B03	N/A	N/A
HV830GSL202E	BASIN WA2-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	2	4	4(+)/A04	4(-)/B04	N/A	N/A
HV831ABN002E	BASIN WA2-CHANNEL AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	2	5	5(+)/A05	5(-)/B05	N/A	N/A
HV832ABN002AE	BASIN WA2-PASS NO. 2 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	2	6	6(+)/A06	6(-)/B06	N/A	N/A
HV832ABN002BE	BASIN WA2-PASS NO. 3 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	2	7	7(+)/A07	7(-)/B07	N/A	N/A
HV832ABN002E	BASIN WA2-INFLUENT VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	2	8	8(+)/A08	8(-)/B08	N/A	N/A
HV832GSL201E	BASIN WA2-PASS NO. 2 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	2	9	9(+)/A09	9(-)/B09	N/A	N/A
HV832GSL202E	BASIN WA2-PASS NO. 3 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	2	10	10(+)/A10	10(-)/B10	N/A	N/A
HV832GSL203E	BASIN WA2-PASS NO. 3 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	2	11	11(+)/A11	11(-)/B11	N/A	N/A
ZSC830GSL201	BASIN WA2-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	3	2	12	12(+)/A12	12(-)/B12	N/A	N/A
ZSC830GSL202	BASIN WA2-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	3	2	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSO830GSL201	BASIN WA2-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	3	2	14	14(+)/A14	14(-)/B14	N/A	N/A
ZSO830GSL202	BASIN WA2-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	3	2	15	15(+)/A15	15(-)/B15	N/A	N/A
ESMS200B	ELLA STREET STORM PUMP 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834	1	3	2	16	16(+)/A16	16(-)/B16	N/A	N/A
HV830ABN003AE	BASIN WA3-PASS NO. 1 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	3	1	1(+)/A01	1(-)/B01	N/A	N/A
HV830ABN003BE	BASIN WA3-PASS NO. 4 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	3	2	2(+)/A02	2(-)/B02	N/A	N/A
HV831ABN003E	BASIN WA3-CHANNEL AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	3	3	3(+)/A03	3(-)/B03	N/A	N/A
HV832ABN003AE	BASIN WA3-PASS NO. 2 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	3	4	4(+)/A04	4(-)/B04	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address									
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply	
HV832ABN003BE	BASIN WA3-PASS NO. 3 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	3	5	5(+)/A05	5(-)/B05	N/A	N/A
HV832ABN003E	BASIN WA3-INFLUENT VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	3	6	6(+)/A06	6(-)/B06	N/A	N/A
HV830GSL301E	BASIN WA3-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	3	7	7(+)/A07	7(-)/B07	N/A	N/A
HV830GSL302E	BASIN WA3-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	3	8	8(+)/A08	8(-)/B08	N/A	N/A
HV832GSL301E	BASIN WA3-PASS NO. 2 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	3	9	9(+)/A09	9(-)/B09	N/A	N/A
HV832GSL302E	BASIN WA3-PASS NO. 3 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	3	10	10(+)/A10	10(-)/B10	N/A	N/A
HV832GSL303E	BASIN WA3-PASS NO. 3 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	3	11	11(+)/A11	11(-)/B11	N/A	N/A
ZSC830GSL301	BASIN WA3-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834		1	3	3	12	12(+)/A12	12(-)/B12	N/A	N/A
ZSC830GSL302	BASIN WA3-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834		1	3	3	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSO830GSL301	BASIN WA3-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834		1	3	3	14	14(+)/A14	14(-)/B14	N/A	N/A
ZSO830GSL302	BASIN WA3-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834		1	3	3	15	15(+)/A15	15(-)/B15	N/A	N/A
ESMS200C	ELLA STREET STORM PUMP 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834		1	3	3	16	16(+)/A16	16(-)/B16	N/A	N/A
HV830ABN004AE	BASIN WA4-PASS NO. 1 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	4	1	1(+)/A01	1(-)/B01	N/A	N/A
HV830ABN004BE	BASIN WA4-PASS NO. 4 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	4	2	2(+)/A02	2(-)/B02	N/A	N/A
HV830GSL401E	BASIN WA4-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	4	3	3(+)/A03	3(-)/B03	N/A	N/A
HV830GSL402E	BASIN WA4-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	4	4	4(+)/A04	4(-)/B04	N/A	N/A
HV831ABN004E	BASIN WA4-CHANNEL AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	4	5	5(+)/A05	5(-)/B05	N/A	N/A
HV832ABN004AE	BASIN WA4-PASS NO. 2 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	4	6	6(+)/A06	6(-)/B06	N/A	N/A
HV832ABN004BE	BASIN WA4-PASS NO. 3 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	4	7	7(+)/A07	7(-)/B07	N/A	N/A
HV832ABN004E	BASIN WA4-INFLUENT VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	4	8	8(+)/A08	8(-)/B08	N/A	N/A
HV832GSL401E	BASIN WA4-PASS NO. 2 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	4	9	9(+)/A09	9(-)/B09	N/A	N/A
HV832GSL402E	BASIN WA4-PASS NO. 3 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	4	10	10(+)/A10	10(-)/B10	N/A	N/A
HV832GSL403E	BASIN WA4-PASS NO. 3 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	4	11	11(+)/A11	11(-)/B11	N/A	N/A
ZSC830GSL401	BASIN WA4-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834		1	3	4	12	12(+)/A12	12(-)/B12	N/A	N/A
ZSC830GSL402	BASIN WA4-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834		1	3	4	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSO830GSL401	BASIN WA4-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834		1	3	4	14	14(+)/A14	14(-)/B14	N/A	N/A
ZSO830GSL402	BASIN WA4-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834		1	3	4	15	15(+)/A15	15(-)/B15	N/A	N/A
ESMS100A	ELLA STREET SEWAGE PUMP 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834		1	3	4	16	16(+)/A16	16(-)/B16	N/A	N/A
FSL831WSP001	WAS PUMP NO. 1 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-834		1	3	5	1	1(+)/A01	1(-)/B01	N/A	N/A
HS831WSP001E	WAS PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	5	2	2(+)/A02	2(-)/B02	N/A	N/A
HS831WSP001F	WAS PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-834		1	3	5	3	3(+)/A03	3(-)/B03	N/A	N/A
MS831WSP001A	WAS PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834		1	3	5	4	4(+)/A04	4(-)/B04	N/A	N/A
UA831WSP001	WAS PUMP NO. 1 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-834		1	3	5	5	5(+)/A05	5(-)/B05	N/A	N/A
FSL831WSP002	WAS PUMP NO. 2 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-834		1	3	5	6	6(+)/A06	6(-)/B06	N/A	N/A
HS831WSP002E	WAS PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	5	7	7(+)/A07	7(-)/B07	N/A	N/A
HS831WSP002F	WAS PUMP NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-834		1	3	5	8	8(+)/A08	8(-)/B08	N/A	N/A
MS831WSP002A	WAS PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834		1	3	5	9	9(+)/A09	9(-)/B09	N/A	N/A
UA831WSP002	WAS PUMP NO. 2 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-834		1	3	5	10	10(+)/A10	10(-)/B10	N/A	N/A
LSH832ABN001A	WA1 VAULT SUMP LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-834		1	3	5	11	11(+)/A11	11(-)/B11	N/A	N/A
LSHH842TBS001	SODIUM BISULF STORAGE TANK NO. 1 LVL	DI	HI-HI	NOT HH	N/A	N/A	N/A	DPU 42-834		1	3	5	12	12(+)/A12	12(-)/B12	N/A	N/A
LSHH842TBS002	SODIUM BISULF STORAGE TANK NO. 2 LVL	DI	HI-HI	NOT HH	N/A	N/A	N/A	DPU 42-834		1	3	5	13	13(+)/A13	13(-)/B13	N/A	N/A
AAH842SDM001	DECHLORINATION FACILITY HIGH SO2	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-834		1	3	5	14	14(+)/A14	14(-)/B14	N/A	N/A
ASH842SDM001	DECHLORINATION FACILITY HI HI SO2	DI	HI-HI	NORMAL	N/A	N/A	N/A	DPU 42-834		1	3	5	15	15(+)/A15	15(-)/B15	N/A	N/A
XA842SDM001	DECHLOR FACILITY GAS MONITOR	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-834		1	3	5	16	16(+)/A16	16(-)/B16	N/A	N/A
FSL831WSP003	WAS PUMP NO. 3 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-834		1	3	6	1	1(+)/A01	1(-)/B01	N/A	N/A
HS831WSP003E	WAS PUMP NO. 3 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	6	2	2(+)/A02	2(-)/B02	N/A	N/A
HS831WSP003F	WAS PUMP NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-834		1	3	6	3	3(+)/A03	3(-)/B03	N/A	N/A
MS831WSP003A	WAS PUMP NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834		1	3	6	4	4(+)/A04	4(-)/B04	N/A	N/A
UA831WSP003	WAS PUMP NO. 3 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-834		1	3	6	5	5(+)/A05	5(-)/B05	N/A	N/A
FSL831WSP004	WAS PUMP NO. 4 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-834		1	3	6	6	6(+)/A06	6(-)/B06	N/A	N/A
HS831WSP004E	WAS PUMP NO. 4 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	6	7	7(+)/A07	7(-)/B07	N/A	N/A
HS831WSP004F	WAS PUMP NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-834		1	3	6	8	8(+)/A08	8(-)/B08	N/A	N/A
MS831WSP004A	WAS PUMP NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834		1	3	6	9	9(+)/A09	9(-)/B09	N/A	N/A
UA831WSP004	WAS PUMP NO. 4 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-834		1	3	6	10	10(+)/A10	10(-)/B10	N/A	N/A
LSH832ABN002A	WA2 VAULT SUMP LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-834		1	3	6	11	11(+)/A11	11(-)/B11	N/A	N/A
ZSO831WSP001	W. WASTE SLUDGE PUMP NO. 1 (W-1) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-834		1	3	6	12				
ZSO831WSP002	W. WASTE SLUDGE PUMP NO. 2 (W-1) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-834		1	3	6	13				
EAM834UPS001	DPU45 UPS ALARM STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-834		1	3	6	14	14(+)/A14	14(-)/B14	N/A	N/A
EN834UPS001	DPU45 UPS STATUS	DI	BATTERY	OFF	N/A	N/A	N/A	DPU 42-834		1	3	6	15	12(+)/A12	12(-)/B12	N/A	N/A
ESMS100B	ELLA STREET SEWAGE PUMP 2	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834		1	3	6	16	16(+)/A16	16(-)/B16	N/A	N/A
FSL831WSP005	WAS PUMP NO. 5 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-834		1	3	7	1	1(+)/A01	1(-)/B01	N/A	N/A
HS831WSP005E	WAS PUMP NO. 5 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834		1	3	7	2	2(+)/A02	2(-)/B02	N/A	N/A
HS831WSP005F	WAS PUMP NO. 5 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-834		1	3	7	3	3(+)/A03	3(-)/B03	N/A	N/A
MS831WSP005A	WAS PUMP NO. 5 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834		1	3	7	4	4(+)/A04	4(-)/B04	N/A	N/A
UA831WSP005	WAS PUMP NO. 5 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-834		1	3	7	5	5(+)/A05	5(-)/B05	N/A	N/A
FSL831WSP006	WAS PUMP NO. 6 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-834		1	3	7	6	6(+)/A06	6(-)/B06	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address									
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply	
HS831WSP006E	WAS PUMP NO. 6 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	3	7	7	7(+)/A07	7(-)/B07	N/A	N/A	
HS831WSP006F	WAS PUMP NO. 6 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-834	1	3	7	8	8(+)/A08	8(-)/B08	N/A	N/A	
MS831WSP006A	WAS PUMP NO. 6 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834	1	3	7	9	9(+)/A09	9(-)/B09	N/A	N/A	
UA831WSP006	WAS PUMP NO. 6 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-834	1	3	7	10	10(+)/A10	10(-)/B10	N/A	N/A	
LSH832ABN003A	WA3 VAULT SUMP LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-834	1	3	7	11	11(+)/A11	11(-)/B11	N/A	N/A	
MS840PCR001A	CHLORINE RESIDUAL PUMP RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834	1	3	7	12	1(+)/A01	1(-)/B01	N/A	N/A	
FSL840PCR001	CHLORINE RESIDUAL PUMP LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-834	1	3	7	13	1(+)/A01	1(-)/B01	N/A	N/A	
ESUA100	ELLA STREET IN FLOAT CONTROL	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 42-834	1	3	7	14	14(+)/A14	14(-)/B14	N/A	N/A	
ESPOWFAL	ELLA ST UTILITY POWER	DI	ON	OFF	N/A	N/A	N/A	DPU 42-834	1	3	7	15	POS\A15	NEG\B15	N/A	N/A	
MS834LTG001AA	AERATION - NORTH WEST LIGHTS	DI	ON	OFF	N/A	N/A	N/A	DPU 42-834	1	3	7	16	16(+)/A16	16(-)/B16	N/A	N/A	
UA834EVA001	MAIN PLANT EVACUATION SIREN	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 42-834	1	3	8	1					
ESGENON	ELLA ST GENERATOR	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834	1	3	8	2	POS\A02	NEG\B02	N/A	N/A	
HS900EFL002E	EFFLUENT PUMP EFL002 LOCAL-REMOTE CONTROL	DI	REMOTE	NOT RE	N/A	N/A	N/A	DPU 42-834	1	3	8	3	3(+)/A03	3(-)/B03	N/A	N/A	
HS900EFL002F	EFFLUENT PUMP EFL002 E-STOP STATUS	DI	E-STOP	NOT E-	N/A	N/A	N/A	DPU 42-834	1	3	8	4	4(+)/A04	4(-)/B04	N/A	N/A	
MS900EFL002A	EFFLUENT PUMP EFL002 ON STATUS	DI	ON	NOT ON	N/A	N/A	N/A	DPU 42-834	1	3	8	5	5(+)/A05	5(-)/B05	N/A	N/A	
LSH832ABN004A	WA4 VAULT SUMP LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-834	1	3	8	6	6(+)/A06	6(-)/B06	N/A	N/A	
MS834LTG001BA	AERATION - SOUTH WEST LIGHTS	DI	ON	OFF	N/A	N/A	N/A	DPU 42-834	1	3	8	7	7(+)/A07	7(-)/B07	N/A	N/A	
ZS834MCC037A	WA-MCC037A BUS A MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 42-834	1	3	8	8	8(+)/A08	8(-)/B08	N/A	N/A	
ZS834MCC037B	WA-MCC037B BUS B MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 42-834	1	3	8	9	9(+)/A09	9(-)/B09	N/A	N/A	
ZS834MCC037C	WA-MCC037A/B BUS A TO B TIE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 42-834	1	3	8	10	10(+)/A10	10(-)/B10	N/A	N/A	
ZSO831WSP003	W. WASTE SLUDGE PUMP NO. 3 (W-1) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-834	1	3	8	11					
ZSO831WSP004	W. WASTE SLUDGE PUMP NO. 4 (W-2) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-834	1	3	8	12					
ZSO831WSP005	W. WASTE SLUDGE PUMP NO. 5 (W-2) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-834	1	3	8	13					
ZSO831WSP006	W. WASTE SLUDGE PUMP NO. 6 (W-2) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-834	1	3	8	14					
EAF834PNL100	DPU45 PRIMARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 42-834	1	3	8	15	16(+)/A16	16(-)/B16	N/A	N/A	
EAF834PNL101	DPU45 SECONDARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 42-834	1	3	8	16	16(+)/A16	16(-)/B16	N/A	N/A	
MS842PBF001A	BISULF FEED PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834	1	4	1	1	1(+)/A01	1(-)/B01	N/A	N/A	
HS842PBF001F	BISULF FEED PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-834	1	4	1	2	2(+)/A02	2(-)/B02	N/A	N/A	
HS842PBF001E	BISULF FEED PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	4	1	3	3(+)/A03	3(-)/B03	N/A	N/A	
PSL842PBF001	BISULF FEED PUMP NO. 1 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 42-834	1	4	1	4	4(+)/A04	4(-)/B04	N/A	N/A	
PSH842PBF001	BISULF FEED PUMP NO. 1 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-834	1	4	1	5	5(+)/A05	5(-)/B05	N/A	N/A	
XS842PBF001	BISULF FEED PUMP NO. 1 SYSTEM ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 42-834	1	4	1	6	6(+)/A06	6(-)/B06	N/A	N/A	
MS842PBF002A	BISULF FEED PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-834	1	4	1	7	7(+)/A07	7(-)/B07	N/A	N/A	
HS842PBF002F	BISULF FEED PUMP NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-834	1	4	1	8	8(+)/A08	8(-)/B08	N/A	N/A	
HS842PBF002E	BISULF FEED PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	4	1	9	9(+)/A09	9(-)/B09	N/A	N/A	
PSL842PBF002	BISULF FEED PUMP NO. 2 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 42-834	1	4	1	10	10(+)/A10	10(-)/B10	N/A	N/A	
PSH842PBF002	BISULF FEED PUMP NO. 2 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-834	1	4	1	11	11(+)/A11	11(-)/B11	N/A	N/A	
XS842PBF002	BISULF FEED PUMP NO. 2 SYSTEM ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 42-834	1	4	1	12	12(+)/A12	12(-)/B12	N/A	N/A	
LSH842BTS003	BISULF CONTAINMENT AREA LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-834	1	4	1	13	13(+)/A13	13(-)/B13	N/A	N/A	
FSH842SES001	DECHLOR BUILDING SAFETY SHOWER	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 42-834	1	4	1	14	1(+)/A01	1(-)/B01	N/A	N/A	
FSH842SES002	TRUCK FILL SAFETY SHOWER	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 42-834	1	4	1	15	15(+)/A15	15(-)/B15	N/A	N/A	
	SPARE	DI			N/A	N/A	N/A	DPU 42-834	1	4	1	16					
HV842FCV001E	BISULF FEED PUMP NO.1 INLET VLV L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	4	2	1	1(+)/A01	1(-)/B01	N/A	N/A	
ZSO842FCV001	BISULF PUMP NO.1 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	4	2	2	2(+)/A02	2(-)/B02	N/A	N/A	
ZSC842FCV001	BISULF PUMP NO.1 INLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	4	2	3	3(+)/A03	3(-)/B03	N/A	N/A	
HV842FCV003E	BISULF PUMP NO.2 INLET VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	4	2	4	4(+)/A04	4(-)/B04	N/A	N/A	
ZSO842FCV003	BISULF PUMP NO. 2 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	4	2	5	5(+)/A05	5(-)/B05	N/A	N/A	
ZSC842FCV003	BISULF PUMP NO. 2 INLET VALVE OPEN	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	4	2	6	6(+)/A06	6(-)/B06	N/A	N/A	
HV842FCV002E	BISULF PUMP NO.1 FLUSH WATER VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	4	2	7	7(+)/A07	7(-)/B07	N/A	N/A	
ZSO842FCV002	BISULF PUMP NO. 1 FLUSH VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	4	2	8	8(+)/A08	8(-)/B08	N/A	N/A	
ZSC842FCV002	BISULF PUMP NO. 1 FLUSH VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	4	2	9	9(+)/A09	9(-)/B09	N/A	N/A	
HV842FCV004E	BISULF PUMP NO. 2 FLUSH WATER VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-834	1	4	2	10	10(+)/A10	10(-)/B10	N/A	N/A	
ZSO842FCV004	BISULF PUMP NO. 2 FLUSH VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	4	2	11	11(+)/A11	11(-)/B11	N/A	N/A	
ZSC842FCV004	BISULF PUMP NO. 2 FLUSH VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	4	2	12	12(+)/A12	12(-)/B12	N/A	N/A	
FSL840TCC001A	SODIUM BISULF SOL A LINE LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-834	1	4	2	13	13(+)/A13	13(-)/B13	N/A	N/A	
FSL840TCC001B	SODIUM BISULF SOL B LINE LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-834	1	4	2	14	14(+)/A14	14(-)/B14	N/A	N/A	
FSL840TCC002A	SODIUM BISULF SOL A LINE LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-834	1	4	2	15	15(+)/A15	15(-)/B15	N/A	N/A	
FSL840TCC002B	SODIUM BISULF SOL B LINE LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-834	1	4	2	16	16(+)/A16	16(-)/B16	N/A	N/A	
	SPARE	AI	N/A	N/A				DPU 42-834	1	5	1	1					
FIT831ABN001	BASIN WA1-CHANNEL AIR FLOW	AI	N/A	N/A		0	700	SCFM	DPU 42-834	1	5	1	2	A2(+)/A03	A2(-)/B03	SH2/A04	YES
FIT830ABN001B	BASIN WA1-PASS NO. 4 AIR FLOW	AI	N/A	N/A		0	4000	SCFM	DPU 42-834	1	5	1	3	A3(+)/A05	A3(-)/B05	SH3/A06	YES
	SPARE	AI	N/A	N/A				DPU 42-834	1	5	1	4					
FIT832ABN001A	BASIN WA1-PASS NO. 2 AIR FLOW	AI	N/A	N/A		0	6000	SCFM	DPU 42-834	1	5	1	5	A5(+)/A09	A5(-)/B09	SH5/A10	YES
FIT832ABN001B	BASIN WA1-PASS NO. 3 AIR FLOW	AI	N/A	N/A		0	4000	SCFM	DPU 42-834	1	5	1	6	A6(+)/A11	A6(-)/B11	SH6/A12	YES
FIT831WSP001	BASIN WA-1 WAS FLOW	AI	N/A	N/A		0	900	gpm	DPU 42-834	1	5	1	7	A7(+)/A13	A7(-)/B13	SH7/A14	NO
FIT830ABN001A	BASIN WA1-PASS NO. 1 AIR FLOW	AI	N/A	N/A		0	9000	SCFM	DPU 42-834	1	5	1	8	A1(+)/A01	A1(-)/B01	SH1/A02	YES

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
FIT830ABN002A	BASIN WA2-PASS NO. 1 AIR FLOW	AI	N/A	N/A	0	9000	SCFM	DPU 42-834	1	5	2	1	A1(+)/A01	A1(-)/B01	SH1/A02	YES
FIT830ABN002B	BASIN WA2-PASS NO. 4 AIR FLOW	AI	N/A	N/A	0	4000	SCFM	DPU 42-834	1	5	2	2	A2(+)/A03	A2(-)/B03	SH2/A04	YES
FIT831ABN002	BASIN WA2-CHANNEL AIR FLOW	AI	N/A	N/A	0	700	SCFM	DPU 42-834	1	5	2	3	A3(+)/A05	A3(-)/B05	SH3/A06	YES
	SPARE	AI	N/A	N/A				DPU 42-834	1	5	2	4				
FIT832ABN002A	BASIN WA2-PASS NO. 2 AIR FLOW	AI	N/A	N/A	0	6000	SCFM	DPU 42-834	1	5	2	5	A5(+)/A09	A5(-)/B09	SH5/A10	YES
FIT832ABN002B	BASIN WA2-PASS NO. 3 AIR FLOW	AI	N/A	N/A	0	4000	SCFM	DPU 42-834	1	5	2	6	A6(+)/A11	A6(-)/B11	SH6/A12	YES
FIT831WSP001A	WEST TOTAL WAS FLOW	AI	N/A	N/A	0	2000	GPM	DPU 42-834	1	5	2	7	POS\A13	NEG\B13	SH\A14	NO
	SPARE	AI	N/A	N/A				DPU 42-834	1	5	2	8				
FIT830ABN003A	BASIN WA3-PASS NO. 1 AIR FLOW	AI	N/A	N/A	0	9000	SCFM	DPU 42-834	1	5	3	1	A1(+)/A01	A1(-)/B01	SH1/A02	YES
FIT830ABN003B	BASIN WA3-PASS NO. 4 AIR FLOW	AI	N/A	N/A	0	4000	SCFM	DPU 42-834	1	5	3	2	A2(+)/A03	A2(-)/B03	SH2/A04	YES
FIT831ABN003	BASIN WA3-CHANNEL AIR FLOW	AI	N/A	N/A	0	700	SCFM	DPU 42-834	1	5	3	3	A3(+)/A05	A3(-)/B05	SH3/A06	YES
	SPARE	AI	N/A	N/A				DPU 42-834	1	5	3	4				
FIT832ABN003A	BASIN WA3-PASS NO. 2 AIR FLOW	AI	N/A	N/A	0	6000	SCFM	DPU 42-834	1	5	3	5	A5(+)/A09	A5(-)/B09	SH5/A10	YES
FIT832ABN003B	BASIN WA3-PASS NO. 3 AIR FLOW	AI	N/A	N/A	0	4000	SCFM	DPU 42-834	1	5	3	6	A6(+)/A11	A6(-)/B11	SH6/A12	YES
FIT831WSP003	BASIN WA-3 WAS FLOW	AI	N/A	N/A	0	900	gpm	DPU 42-834	1	5	3	7	A7(+)/A13	A7(-)/B13	SH7/A14	NO
	SPARE	AI	N/A	N/A				DPU 42-834	1	5	3	8				
FIT830ABN004A	BASIN WA4-PASS NO. 1 AIR FLOW	AI	N/A	N/A	0	9000	SCFM	DPU 42-834	1	5	4	1	A1(+)/A01	A1(-)/B01	SH1/A02	YES
FIT830ABN004B	BASIN WA4-PASS NO. 4 AIR FLOW	AI	N/A	N/A	0	4000	SCFM	DPU 42-834	1	5	4	2	A2(+)/A03	A2(-)/B03	SH2/A04	YES
FIT831ABN004	BASIN WA4-CHANNEL AIR FLOW	AI	N/A	N/A	0	700	SCFM	DPU 42-834	1	5	4	3	A3(+)/A05	A3(-)/B05	SH3/A06	YES
	SPARE	AI	N/A	N/A				DPU 42-834	1	5	4	4				
FIT832ABN004A	BASIN WA4-PASS NO. 2 AIR FLOW	AI	N/A	N/A	0	6000	SCFM	DPU 42-834	1	5	4	5	A5(+)/A09	A5(-)/B09	SH5/A10	YES
FIT832ABN004B	BASIN WA4-PASS NO. 3 AIR FLOW	AI	N/A	N/A	0	4000	SCFM	DPU 42-834	1	5	4	6	A6(+)/A11	A6(-)/B11	SH6/A12	YES
FIT831WSP004	BASIN WA-4 WAS FLOW	AI	N/A	N/A	0	900	gpm	DPU 42-834	1	5	4	7	A7(+)/A13	A7(-)/B13	SH7/A14	NO
TT834DPU001	W.AERATION-DPU45 TEMPERATURE	AI	N/A	N/A	0	200	DEG F	DPU 42-834	1	5	4	8	A6(+)/A11	A6(-)/B11	SH6/A12	YES
HV830GSL401A	BASIN WA4-PASS4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	5	1	1(+)/R01	1(-)/R01	N/A	N/A
HV830GSL401B	BASIN WA4-PASS4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	5	2	2(+)/R02	2(-)/R02	N/A	N/A
HV830GSL402A	BASIN WA4-PASS4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	5	3	3(+)/R03	3(-)/R03	N/A	N/A
HV830GSL402B	BASIN WA4-PASS4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	5	4	4(+)/R04	4(-)/R04	N/A	N/A
HV832GSL401A	BASIN WA4-PASS2 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	5	5	5(+)/R05	5(-)/R05	N/A	N/A
HV832GSL401B	BASIN WA4-PASS2 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	5	6	6(+)/R06	6(-)/R06	N/A	N/A
HV832GSL402A	BASIN WA4-PASS3 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	5	7	7(+)/R07	7(-)/R07	N/A	N/A
HV832GSL402B	BASIN WA4-PASS3 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	5	8	8(+)/R08	8(-)/R08	N/A	N/A
HV832GSL403A	BASIN WA4-PASS3 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	5	9	9(+)/R09	9(-)/R09	N/A	N/A
HV832GSL403B	BASIN WA4-PASS3 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	5	10	10(+)/R10	10(-)/R10	N/A	N/A
HS834LTG001BA	SW.AERATION STREET LIGHT CONTROL	DO	ON	OFF	N/A	N/A	N/A	DPU 42-834	1	5	5	11	11(+)/R11	11(-)/R11	N/A	N/A
HV842FCV002A	BISULF PUMP 1 FLUSH VALVE OPEN	DO	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	5	5	12	12(+)/R12	12(-)/R12	N/A	N/A
HV842FCV002B	BISULF PUMP1 FLUSH VALVE CLOSE	DO	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	5	5	13	13(+)/R13	13(-)/R13	N/A	N/A
HV842FCV004A	BISULF PUMP 2 FLUSH VALVE OPEN	DO	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	5	5	14	14(+)/R14	14(-)/R14	N/A	N/A
HV842FCV004B	BISULF PUMP2 FLUSH VALVE CLOSE	DO	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	5	5	15	15(+)/R15	15(-)/R15	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 42-834	1	5	5	16				
HV830GSL301A	BASIN WA3-PASS4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	1	1(+)/R01	1(-)/R01	N/A	N/A
HV830GSL301B	BASIN WA3-PASS4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	2	2(+)/R02	2(-)/R02	N/A	N/A
HV830GSL302A	BASIN WA3-PASS4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	3	3(+)/R03	3(-)/R03	N/A	N/A
HV830GSL302B	BASIN WA3-PASS4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	4	4(+)/R04	4(-)/R04	N/A	N/A
HV832GSL301A	BASIN WA3-PASS2 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	5	5(+)/R05	5(-)/R05	N/A	N/A
HV832GSL301B	BASIN WA3-PASS2 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	6	6(+)/R06	6(-)/R06	N/A	N/A
HV832GSL302A	BASIN WA3-PASS3 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	7	7(+)/R07	7(-)/R07	N/A	N/A
HV832GSL302B	BASIN WA3-PASS3 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	8	8(+)/R08	8(-)/R08	N/A	N/A
HV832GSL303A	BASIN WA3-PASS3 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	9	9(+)/R09	9(-)/R09	N/A	N/A
HV832GSL303B	BASIN WA3-PASS3 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	10	10(+)/R10	10(-)/R10	N/A	N/A
HS831WSP005A	WAS PUMP NO. 5 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	11	11(+)/R11	11(-)/R11	N/A	N/A
HS831WSP006A	WAS PUMP NO. 6 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-834	1	5	6	12	12(+)/R12	12(-)/R12	N/A	N/A
HS834LTG001AA	NW.AERATION STREET LIGHT CTRL	DO	ON	OFF	N/A	N/A	N/A	DPU 42-834	1	5	6	13	13(+)/R13	13(-)/R13	N/A	N/A
HS900EFL001A	EFFLUENT PUMP EFL001 CONTROL	DO	START	NOT ST	N/A	N/A	N/A	DPU 42-834	1	5	6	14				
	SPARE	DO			N/A	N/A	N/A	DPU 42-834	1	5	6	15				
	SPARE	DO			N/A	N/A	N/A	DPU 42-834	1	5	6	16				
HV830GSL201A	BASIN WA2-PASS4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	1	1(+)/R01	1(-)/R01	N/A	N/A
HV830GSL201B	BASIN WA2-PASS4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	2	2(+)/R02	2(-)/R02	N/A	N/A
HV830GSL202A	BASIN WA2-PASS4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	3	3(+)/R03	3(-)/R03	N/A	N/A
HV830GSL202B	BASIN WA2-PASS4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	4	4(+)/R04	4(-)/R04	N/A	N/A
HV832GSL201A	BASIN WA2-PASS2 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	5	5(+)/R05	5(-)/R05	N/A	N/A
HV832GSL201B	BASIN WA2-PASS2 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	6	6(+)/R06	6(-)/R06	N/A	N/A
HV832GSL202A	BASIN WA2-PASS3 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	7	7(+)/R07	7(-)/R07	N/A	N/A
HV832GSL202B	BASIN WA2-PASS3 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	8	8(+)/R08	8(-)/R08	N/A	N/A
HV832GSL203A	BASIN WA2-PASS3 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	9	9(+)/R09	9(-)/R09	N/A	N/A
HV832GSL203B	BASIN WA2-PASS3 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	10	10(+)/R10	10(-)/R10	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HS831WSP003A	WAS PUMP NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	11	11(+)/R11	11(-)/R11	N/A	N/A
HS831WSP004A	WAS PUMP NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-834	1	5	7	12	12(+)/R12	12(-)/R12	N/A	N/A
HV842FCV001A	BISULF PUMP NO. 1 INLET VALVE OPEN	DO	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	5	7	13	13(+)/R13	13(-)/R13	N/A	N/A
HV842FCV001B	BISULF PUMP NO. 1 INLET VALVE CLOSE	DO	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	5	7	14	14(+)/R14	14(-)/R14	N/A	N/A
HV842FCV003A	BISULF PUMP NO. 2 INLET VALVE OPEN	DO	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	5	7	15	15(+)/R15	15(-)/R15	N/A	N/A
HV842FCV003B	BISULF PUMP NO. 2 INLET VALVE CLOSE	DO	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 42-834	1	5	7	16	16(+)/R16	16(-)/R16	N/A	N/A
HV830GSL101A	BASIN WA1-PASS4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	1	1(+)/R01	1(-)/R01	N/A	N/A
HV830GSL101B	BASIN WA1-PASS4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	2	2(+)/R02	2(-)/R02	N/A	N/A
HV830GSL102A	BASIN WA1-PASS4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	3	3(+)/R03	3(-)/R03	N/A	N/A
HV830GSL102B	BASIN WA1-PASS4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	4	4(+)/R04	4(-)/R04	N/A	N/A
HV832GSL101A	BASIN WA1-PASS2 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	5	5(+)/R05	5(-)/R05	N/A	N/A
HV832GSL101B	BASIN WA1-PASS2 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	6	6(+)/R06	6(-)/R06	N/A	N/A
HV832GSL102A	BASIN WA1-PASS3 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	7	7(+)/R07	7(-)/R07	N/A	N/A
HV832GSL102B	BASIN WA1-PASS3 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	8	8(+)/R08	8(-)/R08	N/A	N/A
HV832GSL103A	BASIN WA1-PASS3 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	9	9(+)/R09	9(-)/R09	N/A	N/A
HV832GSL103B	BASIN WA1-PASS3 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	10	10(+)/R10	10(-)/R10	N/A	N/A
HS831WSP001A	WAS PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	11	11(+)/R11	11(-)/R11	N/A	N/A
HS831WSP002A	WAS PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	12	12(+)/R12	12(-)/R12	N/A	N/A
HS842PBF001A	BISULF FEED PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	13	13(+)/R13	13(-)/R13	N/A	N/A
HS842PBF002A	BISULF FEED PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-834	1	5	8	14	14(+)/R14	14(-)/R14	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 42-834	1	5	8	15				
HN834EVA001	AERATION TUNNEL EVAC ALARM	DO	ON	OFF	N/A	N/A	N/A	DPU 42-834	1	5	8	16	7(+)/R07	7(-)/R07	N/A	N/A
AIT840TCC002A	PRE-DECHLOR D.O.	AI	N/A	N/A	0	20	PPM	DPU 42-834	1	6	1	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
AIT840TCC002B	POST-DECHLOR D.O.	AI	N/A	N/A	0	20	PPM	DPU 42-834	1	6	1	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
AIT840CRA001	PRE-DECHLOR CL2 RESIDUAL	AI	N/A	N/A	0	5	PPM	DPU 42-834	1	6	1	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
LIT842TBS001	SODIUM BISUL STORAGE TANK NO. 1 LVL	AI	N/A	N/A	0	10	FEET	DPU 42-834	1	6	1	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
LIT842TBS002	SODIUM BISUL STORAGE TANK NO. 2 LVL	AI	N/A	N/A	0	10	FEET	DPU 42-834	1	6	1	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	1	6				
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	1	7				
AIT835ABN001B	W-MIXED LIQUOR SUSPENDED SOLIDS	AI	N/A	N/A	0	4000	PPM	DPU 42-834	1	6	1	8	POS/A15	NEG/B16	SH/A16	NO
FIT840TCC001	CONTACT TANK DECHLOR TOTAL AIR	AI	N/A	N/A	0	5000	SCFM	DPU 42-834	1	6	2	1	A1(+)/A01	A1(-)/B01	SH1/A02	YES
FIT840TCC002	POST-DECHLOR AIR FLOW	AI	N/A	N/A	0	1550	SCFM	DPU 42-834	1	6	2	2	A2(+)/A03	A2(-)/B03	SH2/A04	YES
TT842BBS001	BISULFITE BUILDING TEMPERATURE	AI	N/A	N/A	0	200	DEG F	DPU 42-834	1	6	2	3	F2(+)/A05	F2(-)/B06	F2(SH)/A06	YES
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	2	4				
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	2	5				
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	2	6				
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	2	7				
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	2	8				
ESLT100	ELLA STREET WET WELL LEVEL	AI	N/A	N/A	0	16	FEET	DPU 42-834	1	6	3	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ESFT100	ELLA STREET PLANT FLOW	AI	N/A	N/A	0	2000	GPM	DPU 42-834	1	6	3	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
ESGENLT001	ELLA ST GENERATOR FUEL LEVEL	AI	N/A	N/A	0	1000	GAL	DPU 42-834	1	6	3	3	POS/A05	NEG/B06	SH/A06	NO
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	3	4				
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	3	5				
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	3	6				
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	3	7				
	SPARE	AI	N/A	N/A				DPU 42-834	1	6	3	8				

I/O List

East Aeration Basins Electrical Room 824

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
FIT820ABN001A	BASIN EA1-PASS NO. 1 AIR FLOW	AI	N/A	N/A		0	9000 SCFM	DPU 42-824	1	1	1	1	A1(+)/A01	A1(-)/B01	SH1/A02	YES
FIT820ABN001B	BASIN EA1-PASS NO. 4 AIR FLOW	AI	N/A	N/A		0	4000 SCFM	DPU 42-824	1	1	1	2	A2(+)/A03	A2(-)/B03	SH2/A04	YES
FIT820ABN004A	BASIN EA4-PASS NO. 1 AIR FLOW	AI	N/A	N/A		0	9000 SCFM	DPU 42-824	1	1	1	3	A3(+)/A05	A3(-)/B05	SH3/A06	YES
FIT821ABN001	BASIN EA1-CHANNEL AIR FLOW	AI	N/A	N/A		0	700 SCFM	DPU 42-824	1	1	1	4	A4(+)/A07	A4(-)/B07	SH4/A08	YES
FIT822ABN001A	BASIN EA1-PASS NO. 2 AIR FLOW	AI	N/A	N/A		0	6000 SCFM	DPU 42-824	1	1	1	5	A5(+)/A09	A5(-)/B09	SH5/A10	YES
FIT822ABN001B	BASIN EA1-PASS NO. 3 AIR FLOW	AI	N/A	N/A		0	4000 SCFM	DPU 42-824	1	1	1	6	A6(+)/A11	A6(-)/B11	SH6/A12	YES
	SPARE	AI	N/A	N/A				DPU 42-824	1	1	1	7				
FIT825PHF005A	AERATION FOAM SPRAY-HYPO FLOW	AI	N/A	N/A		0	24 GPM	DPU 42-824	1	1	1	8	A8(+)/A15	A8(-)/B15	SH8/A16	NO
FIT820ABN002A	BASIN EA2-PASS NO. 1 AIR FLOW	AI	N/A	N/A		0	9000 SCFM	DPU 42-824	1	1	2	1	A1(+)/A01	A1(-)/B01	SH1/A02	YES
FIT820ABN002B	BASIN EA2-PASS NO. 4 AIR FLOW	AI	N/A	N/A		0	4000 SCFM	DPU 42-824	1	1	2	2	A2(+)/A03	A2(-)/B03	SH2/A04	YES
FIT821ABN002	BASIN EA2-CHANNEL AIR FLOW	AI	N/A	N/A		0	700 SCFM	DPU 42-824	1	1	2	3	A3(+)/A05	A3(-)/B05	SH3/A06	YES
	SPARE	AI	N/A	N/A				DPU 42-824	1	1	2	4				
FIT822ABN002A	BASIN EA2-PASS NO. 2 AIR FLOW	AI	N/A	N/A		0	6000 SCFM	DPU 42-824	1	1	2	5	A5(+)/A09	A5(-)/B09	SH5/A10	YES
FIT822ABN002B	BASIN EA2-PASS NO. 3 AIR FLOW	AI	N/A	N/A		0	4000 SCFM	DPU 42-824	1	1	2	6	A6(+)/A11	A6(-)/B11	SH6/A12	YES
	SPARE	AI	N/A	N/A				DPU 42-824	1	1	2	7				
	SPARE	AI	N/A	N/A				DPU 42-824	1	1	2	8				
FIT820ABN003A	BASIN EA3-PASS NO. 1 AIR FLOW	AI	N/A	N/A		0	9000 SCFM	DPU 42-824	1	1	3	1	A1(+)/A01	A1(-)/B01	SH1/A02	YES
FIT820ABN003B	BASIN EA3-PASS NO. 4 AIR FLOW	AI	N/A	N/A		0	4000 SCFM	DPU 42-824	1	1	3	2	A2(+)/A03	A2(-)/B03	SH2/A04	YES
	SPARE	AI	N/A	N/A				DPU 42-824	1	1	3	3				
FIT822ABN003A	BASIN EA3-PASS NO. 2 AIR FLOW	AI	N/A	N/A		0	6000 SCFM	DPU 42-824	1	1	3	4	A4(+)/A07	A4(-)/B07	SH4/A08	YES
FIT822ABN003B	BASIN EA3-PASS NO. 3 AIR FLOW	AI	N/A	N/A		0	4000 SCFM	DPU 42-824	1	1	3	5	A5(+)/A09	A5(-)/B09	SH5/A10	YES
FIT821ABN003	BASIN EA3-CHANNEL AIR FLOW	AI	N/A	N/A		0	700 SCFM	DPU 42-824	1	1	3	6	A6(+)/A11	A6(-)/B11	SH6/A12	YES
	SPARE	AI	N/A	N/A				DPU 42-824	1	1	3	7				
	SPARE	AI	N/A	N/A				DPU 42-824	1	1	3	8				
FIT820ABN004B	BASIN EA4-PASS NO. 4 AIR FLOW	AI	N/A	N/A		0	4000 SCFM	DPU 42-824	1	1	4	1	A1(+)/A01	A1(-)/B01	SH1/A02	YES
FIT821ABN004	BASIN EA4-CHANNEL AIR FLOW	AI	N/A	N/A		0	700 SCFM	DPU 42-824	1	1	4	2	A2(+)/A03	A2(-)/B03	SH2/A04	YES
	SPARE	AI	N/A	N/A				DPU 42-824	1	1	4	3				
FIT822ABN004A	BASIN EA4-PASS NO. 2 AIR FLOW	AI	N/A	N/A		0	6000 SCFM	DPU 42-824	1	1	4	4	A4(+)/A07	A4(-)/B07	SH4/A08	YES
FIT822ABN004B	BASIN EA4-PASS NO. 3 AIR FLOW	AI	N/A	N/A		0	4000 SCFM	DPU 42-824	1	1	4	5	A5(+)/A09	A5(-)/B09	SH5/A10	YES
	SPARE	AI	N/A	N/A				DPU 42-824	1	1	4	6				
	SPARE	AI	N/A	N/A				DPU 42-824	1	1	4	7				
TT824DPU001	E.AERATION-DPU42 TEMPERATURE	AI	N/A	N/A		0	200 DEG F	DPU 42-824	1	1	4	8	A6(+)/A11	A6(-)/B11	SH6/A12	YES
ZC820ABN003A	BASIN EA3-PASS NO. 1 AIR CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	5	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC820ABN003B	BASIN EA3-PASS NO. 4 AIR CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	5	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC821ABN003	BASIN EA3-CHANNEL AIR CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	5	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
SC821WSP004	WAS PUMP NO. 4 SPEED CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	5	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO
ZC822ABN003	BASIN EA3-INFLUENT CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	6	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC822ABN003A	BASIN EA3-PASS NO. 2 AIR CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	6	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC822ABN003B	BASIN EA3-PASS NO. 3 AIR CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	6	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
SC821WSP005	WAS PUMP NO. 5 SPEED CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	6	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO
ZC820ABN004A	BASIN EA4-PASS NO. 1 AIR CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	7	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC820ABN004B	BASIN EA4-PASS NO. 4 AIR CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	7	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC821ABN004	BASIN EA4-CHANNEL AIR CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	7	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
SC821WSP006	WAS PUMP NO. 6 SPEED CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	7	4	(+)/I4/A14	(-)/J4/B14	SH4/C13	NO
ZC822ABN004	BASIN EA4-INFLUENT CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	8	1	(+)/I1/A02	(-)/J1/B02	SH1/C01	NO
ZC822ABN004A	BASIN EA4-PASS NO. 2 AIR CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	8	2	(+)/I2/A06	(-)/J2/B06	SH2/C05	NO
ZC822ABN004B	BASIN EA4-PASS NO. 3 AIR CONTROL	AO	N/A	N/A		0	100 %	DPU 42-824	1	1	8	3	(+)/I3/A10	(-)/J3/B10	SH3/C09	NO
	SPARE	AO	N/A	N/A				DPU 42-824	1	1	8	4				
AIT820ABN001A	BASIN EA1-PASS NO. 1 OUTLET D.O.	AI	N/A	N/A		0	10 PPM	DPU 42-824	1	2	1	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
AIT820ABN001B	BASIN EA1-PASS NO. 4 OUTLET D.O.	AI	N/A	N/A		0	10 PPM	DPU 42-824	1	2	1	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
AIT822ABN001A	BASIN EA1-PASS NO. 2 OUTLET D.O.	AI	N/A	N/A		0	10 PPM	DPU 42-824	1	2	1	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
AIT822ABN001B	BASIN EA1-PASS NO. 3 OUTLET D.O.	AI	N/A	N/A		0	10 PPM	DPU 42-824	1	2	1	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
FIT822ABN004	BASIN EA4-INFLUENT FLOW	AI	N/A	N/A		0	54 MGD	DPU 42-824	1	2	1	5	A3(+)/A05	A3(-)/B05	SH3/A06	NO
ZIT820ABN001A	BASIN EA1-PASS NO. 1 VALVE STATUS	AI	N/A	N/A		0	100 %	DPU 42-824	1	2	1	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ZIT820ABN001B	BASIN EA1-PASS NO. 4 VALVE STATUS	AI	N/A	N/A		0	100 %	DPU 42-824	1	2	1	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ZIT821ABN001	BASIN EA1-CHANNEL VALVE STATUS	AI	N/A	N/A		0	100 %	DPU 42-824	1	2	1	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
ZIT822ABN001	BASIN EA1-INFLUENT VALVE STAT.	AI	N/A	N/A		0	100 %	DPU 42-824	1	2	2	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ZIT822ABN001A	BASIN EA1-PASS NO. 2 VALVE STATUS	AI	N/A	N/A		0	100 %	DPU 42-824	1	2	2	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
ZIT822ABN001B	BASIN EA1-PASS NO. 3 VALVE STATUS	AI	N/A	N/A		0	100 %	DPU 42-824	1	2	2	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ZIT822GSL101	BASIN EA1-PASS NO. 2 IN-GATE STATUS	AI	N/A	N/A		0	100 %	DPU 42-824	1	2	2	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
ZIT822GSL102	BASIN EA1-PASS NO. 3 IN-GATE STATUS	AI	N/A	N/A		0	100 %	DPU 42-824	1	2	2	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ZIT822GSL103	BASIN EA1-PASS NO. 3 OUT-GATE STATUS	AI	N/A	N/A		0	100 %	DPU 42-824	1	2	2	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
JIT824MCC036A	E. AERATION MCC36A POWER USAGE	AI	N/A	N/A		0	700 KW	DPU 42-824	1	2	2	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
JIT824MCC036B	E. AERATION MCC36B POWER USAGE	AI	N/A	N/A		0	700 KW	DPU 42-824	1	2	2	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
AIT820ABN002A	BASIN EA2-PASS NO. 1 OUTLET D.O.	AI	N/A	N/A		0	10 PPM	DPU 42-824	1	2	3	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
AIT820ABN002B	BASIN EA2-PASS NO. 4 OUTLET D.O.	AI	N/A	N/A		0	10 PPM	DPU 42-824	1	2	3	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
AIT822ABN002A	BASIN EA2-PASS NO. 2 OUTLET D.O.	AI	N/A	N/A	0	10	PPM	DPU 42-824	1	2	3	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
AIT822ABN002B	BASIN EA2-PASS NO. 3 OUTLET D.O.	AI	N/A	N/A	0	10	PPM	DPU 42-824	1	2	3	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
FIT822ABN003	BASIN EA3-INFLUENT FLOW	AI	N/A	N/A	0	55	MGD	DPU 42-824	1	2	3	5	A3(+)/A05	A3(-)/B05	SH3/A06	NO
ZIT820ABN002A	BASIN EA2-PASS NO. 1 VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	3	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ZIT820ABN002B	BASIN EA2-PASS NO. 4 VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	3	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ZIT822ABN002A	BASIN EA2-PASS NO. 2 VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	3	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
ZIT822ABN002B	BASIN EA2-PASS NO. 3 VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	4	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ZIT822ABN002	BASIN EA2-INFLUENT VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	4	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
ZIT821ABN002	BASIN EA2-CHANNEL VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	4	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ZIT822GSL201	BASIN EA2-PASS NO. 2 IN-GATE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	4	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
ZIT822GSL202	BASIN EA2-PASS NO. 3 IN-GATE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	4	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ZIT822GSL203	BASIN EA2-PASS NO. 3 OUT-GATE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	4	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
	SPARE	AI	N/A	N/A				DPU 42-824	1	2	4	7				
	SPARE	AI	N/A	N/A				DPU 42-824	1	2	4	8				
ZIT820ABN003B	BASIN EA3-PASS NO. 4 VALVE STATUS	AI	N/A	N/A		100	%	DPU 42-824	1	2	5	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
AIT820ABN003A	BASIN EA3-PASS NO. 1 OUTLET D.O.	AI	N/A	N/A	0	10	PPM	DPU 42-824	1	2	5	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
AIT820ABN003B	BASIN EA3-PASS NO. 4 OUTLET D.O.	AI	N/A	N/A	0	10	PPM	DPU 42-824	1	2	5	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
AIT822ABN003A	BASIN EA3-PASS NO. 2 OUTLET D.O.	AI	N/A	N/A	0	10	PPM	DPU 42-824	1	2	5	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
AIT822ABN003B	BASIN EA3-PASS NO. 3 OUTLET D.O.	AI	N/A	N/A	0	10	PPM	DPU 42-824	1	2	5	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ZIT820ABN003A	BASIN EA3-PASS NO. 1 VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	5	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ZIT821ABN003	BASIN EA3-CHANNEL VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	5	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ZIT822GSL301	BASIN EA3-PASS NO. 2 IN-GATE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	5	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
ZIT822GSL302	BASIN EA3-PASS NO. 3 IN-GATE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	6	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ZIT822GSL303	BASIN EA3-PASS NO. 3 OUT-GATE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	6	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
ZIT822ABN003	BASIN EA3-INFLUENT VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	6	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
FIT822ABN002	BASIN EA2-INFLUENT FLOW	AI	N/A	N/A	0	55	MGD	DPU 42-824	1	2	6	4	A4(+)/A07	A4(-)/B07	SH4/A08	NO
ZIT822ABN003A	BASIN EA3-PASS NO. 2 VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	6	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ZIT822ABN003B	BASIN EA3-PASS NO. 3 VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	6	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
AIT835ABN001A	E-MIXED LIQOUR SUSPENDE SOLIDS	AI	N/A	N/A	0	4000	PPM	DPU 42-824	1	2	6	7	A6(+)/A11	A6(-)/B12	SH6/A12	NO
	SPARE	AI	N/A	N/A				DPU 42-824	1	2	6	8				
AIT820ABN004A	BASIN EA4-PASS NO. 1 OUTLET D.O.	AI	N/A	N/A	0	10	PPM	DPU 42-824	1	2	7	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
AIT835ABN002A	EAST MIXED LIQOUR D.O.	AI	N/A	N/A	0	10	PPM	DPU 42-824	1	2	7	2	POS/A03	NEG/B04	SH/A04	NO
AIT822ABN004A	BASIN EA4-PASS NO. 2 OUTLET D.O.	AI	N/A	N/A	0	10	PPM	DPU 42-824	1	2	7	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
AIT822ABN004B	BASIN EA4-PASS NO. 3 OUTLET D.O.	AI	N/A	N/A	0	10	PPM	DPU 42-824	1	2	7	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
FIT822ABN001	BASIN EA1-INFLUENT FLOW	AI	N/A	N/A	0	55	MGD	DPU 42-824	1	2	7	5	A7(+)/A13	A7(-)/B13	SH7/A14	NO
ZIT820ABN004A	BASIN EA4-PASS NO. 1 VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	7	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ZIT820ABN004B	BASIN EA4-PASS NO. 4 VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	7	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ZIT821ABN004	BASIN EA4-CHANNEL VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	7	8	A8(+)/A15	A8(-)/B16	SH8/A16	NO
ZIT822ABN004	BASIN EA4-INFLUENT VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	8	1	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ZIT822ABN004A	BASIN EA4-PASS NO. 2 VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	8	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
ZIT822ABN004B	BASIN EA4-PASS NO. 3 VALVE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	8	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ZIT822GSL401	BASIN EA4-PASS NO. 2 IN-GATE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	8	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
ZIT822GSL402	BASIN EA4-PASS NO. 3 IN-GATE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	8	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ZIT822GSL403	BASIN EA4-PASS NO. 3 OUT-GATE STATUS	AI	N/A	N/A	0	100	%	DPU 42-824	1	2	8	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
	SPARE	AI	N/A	N/A				DPU 42-824	1	2	8	7				
	SPARE	AI	N/A	N/A				DPU 42-824	1	2	8	8				
HV820ABN001AE	BASIN EA1-PASS NO. 1 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	1	1	1(+)/A01	1(-)/B01	N/A	N/A
HV820ABN001BE	BASIN EA1-PASS NO. 4 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	1	2	2(+)/A02	2(-)/B02	N/A	N/A
HV820GSL101E	BASIN EA1-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	1	3	3(+)/A03	3(-)/B03	N/A	N/A
HV820GSL102E	BASIN EA1-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	1	4	4(+)/A04	4(-)/B04	N/A	N/A
HV822ABN001AE	BASIN EA1-PASS NO. 2 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	1	5	5(+)/A05	5(-)/B05	N/A	N/A
HV822ABN001BE	BASIN EA1-PASS NO. 3 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	1	6	6(+)/A06	6(-)/B06	N/A	N/A
HV822ABN001E	BASIN EA1-INFLUENT VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	1	7	7(+)/A07	7(-)/B07	N/A	N/A
HV822GSL101E	BASIN EA1-PASS NO. 2 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	1	8	8(+)/A08	8(-)/B08	N/A	N/A
HV822GSL102E	BASIN EA1-PASS NO. 3 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	1	9	9(+)/A09	9(-)/B09	N/A	N/A
HV822GSL103E	BASIN EA1-PASS NO. 3 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	1	10	10(+)/A10	10(-)/B10	N/A	N/A
HV821ABN001E	BASIN EA1-CHANNEL AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	1	11	11(+)/A11	11(-)/B11	N/A	N/A
ZSC820GSL101	BASIN EA1-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	1	12	12(+)/A12	12(-)/B12	N/A	N/A
ZSC820GSL102	BASIN EA1-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	1	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSO820GSL101	BASIN EA1-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	1	14	14(+)/A14	14(-)/B14	N/A	N/A
ZSO820GSL102	BASIN EA1-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	1	15	15(+)/A15	15(-)/B15	N/A	N/A
ZSO821WSP001	E. WASTE SLUDGE PUMP NO. 1 (E-1) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-824	1	3	1	16				
HV820ABN002AE	BASIN EA2-PASS NO. 1 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	2	1	1(+)/A01	1(-)/B01	N/A	N/A
HV820ABN002BE	BASIN EA2-PASS NO. 4 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	2	2	2(+)/A02	2(-)/B02	N/A	N/A
HV820GSL201E	BASIN EA2-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	2	3	3(+)/A03	3(-)/B03	N/A	N/A
HV820GSL202E	BASIN EA2-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	2	4	4(+)/A04	4(-)/B04	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HV821ABN002E	BASIN EA2-CHANNEL AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	2	5	5(+)/A05	5(-)/B05	N/A	N/A
HV822ABN002AE	BASIN EA2-PASS NO. 2 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	2	6	6(+)/A06	6(-)/B06	N/A	N/A
HV822ABN002BE	BASIN EA2-PASS NO. 3 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	2	7	7(+)/A07	7(-)/B07	N/A	N/A
HV822ABN002E	BASIN EA2-INFLUENT VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	2	8	8(+)/A08	8(-)/B08	N/A	N/A
HV822GSL201E	BASIN EA2-PASS NO. 2 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	2	9	9(+)/A09	9(-)/B09	N/A	N/A
HV822GSL202E	BASIN EA2-PASS NO. 3 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	2	10	10(+)/A10	10(-)/B10	N/A	N/A
HV822GSL203E	BASIN EA2-PASS NO. 3 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	2	11	11(+)/A11	11(-)/B11	N/A	N/A
ZSC820GSL201	BASIN EA2-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	2	12	12(+)/A12	12(-)/B12	N/A	N/A
ZSC820GSL202	BASIN EA2-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	2	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSO820GSL201	BASIN EA2-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	2	14	14(+)/A14	14(-)/B14	N/A	N/A
ZSO820GSL202	BASIN EA2-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	2	15	15(+)/A15	15(-)/B15	N/A	N/A
ZSO821WSP002	E. WASTE SLUDGE PUMP NO. 2 (E-1) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-824	1	3	2	16				
HV820ABN003AE	BASIN EA3-PASS NO. 1 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	3	1	1(+)/A01	1(-)/B01	N/A	N/A
HV820ABN003BE	BASIN EA3-PASS NO. 4 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	3	2	2(+)/A02	2(-)/B02	N/A	N/A
HV820GSL301E	BASIN EA3-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	3	3	3(+)/A03	3(-)/B03	N/A	N/A
HV820GSL302E	BASIN EA3-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	3	4	4(+)/A04	4(-)/B04	N/A	N/A
HV822ABN003AE	BASIN EA3-PASS NO. 2 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	3	5	5(+)/A05	5(-)/B05	N/A	N/A
HV822ABN003BE	BASIN EA3-PASS NO. 3 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	3	6	6(+)/A06	6(-)/B06	N/A	N/A
HV822ABN003E	BASIN EA3-INFLUENT VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	3	7	7(+)/A07	7(-)/B07	N/A	N/A
HV822GSL301E	BASIN EA3-PASS NO. 2 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	3	8	8(+)/A08	8(-)/B08	N/A	N/A
HV822GSL302E	BASIN EA3-PASS NO. 3 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	3	9	9(+)/A09	9(-)/B09	N/A	N/A
HV822GSL303E	BASIN EA3-PASS NO. 3 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	3	10	10(+)/A10	10(-)/B10	N/A	N/A
ZSC820GSL301	BASIN EA3-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	3	11	11(+)/A11	11(-)/B11	N/A	N/A
ZSC820GSL302	BASIN EA3-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	3	12	12(+)/A12	12(-)/B12	N/A	N/A
ZSO820GSL301	BASIN EA3-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	3	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSO820GSL302	BASIN EA3-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	3	14	14(+)/A14	14(-)/B14	N/A	N/A
HV821ABN003E	BASIN EA3-CHANNEL AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	3	15	15(+)/A15	15(-)/B15	N/A	N/A
ZSO821WSP003	E. WASTE SLUDGE PUMP NO. 3 (E-1) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-824	1	3	3	16				
HV820GSL401E	BASIN EA4-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	4	1	1(+)/A01	1(-)/B01	N/A	N/A
HV820ABN004AE	BASIN EA4-PASS NO. 1 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	4	2	2(+)/A02	2(-)/B02	N/A	N/A
HV820ABN004BE	BASIN EA4-PASS NO. 4 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	4	3	3(+)/A03	3(-)/B03	N/A	N/A
HV820GSL402E	BASIN EA4-PASS NO. 4 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	4	4	4(+)/A04	4(-)/B04	N/A	N/A
HV821ABN004E	BASIN EA4-CHANNEL AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	4	5	5(+)/A05	5(-)/B05	N/A	N/A
HV822ABN004AE	BASIN EA4-PASS NO. 2 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	4	6	6(+)/A06	6(-)/B06	N/A	N/A
HV822ABN004BE	BASIN EA4-PASS NO. 3 AIR VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	4	7	7(+)/A07	7(-)/B07	N/A	N/A
HV822ABN004E	BASIN EA4-INFLUENT VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	4	8	8(+)/A08	8(-)/B08	N/A	N/A
HV822GSL401E	BASIN EA4-PASS NO. 2 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	4	9	9(+)/A09	9(-)/B09	N/A	N/A
HV822GSL402E	BASIN EA4-PASS NO. 3 INLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	4	10	10(+)/A10	10(-)/B10	N/A	N/A
HV822GSL403E	BASIN EA4-PASS NO. 3 OUTLET GATE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	4	11	11(+)/A11	11(-)/B11	N/A	N/A
ZSC820GSL401	BASIN EA4-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	4	12	12(+)/A12	12(-)/B12	N/A	N/A
ZSC820GSL402	BASIN EA4-PASS NO. 4 OUTLET GATE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	4	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSO820GSL401	BASIN EA4-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	4	14	14(+)/A14	14(-)/B14	N/A	N/A
ZSO820GSL402	BASIN EA4-PASS NO. 4 OUTLET GATE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 42-824	1	3	4	15	15(+)/A15	15(-)/B15	N/A	N/A
ZSO821WSP004	E. WASTE SLUDGE PUMP NO. 4 (E-2) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-824	1	3	4	16				
FSL821WSP001	WAS PUMP NO. 1 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-824	1	3	5	1	1(+)/A01	1(-)/B01	N/A	N/A
HS821WSP001E	WAS PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	5	2	2(+)/A02	2(-)/B02	N/A	N/A
HS821WSP001F	WAS PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	5	3	3(+)/A03	3(-)/B03	N/A	N/A
MS821WSP001A	WAS PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-824	1	3	5	4	4(+)/A04	4(-)/B04	N/A	N/A
UA821WSP001	WAS PUMP NO. 1 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-824	1	3	5	5	5(+)/A05	5(-)/B05	N/A	N/A
FSL821WSP002	WAS PUMP NO. 2 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-824	1	3	5	6	6(+)/A06	6(-)/B06	N/A	N/A
HS821WSP002E	WAS PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	5	7	7(+)/A07	7(-)/B07	N/A	N/A
HS821WSP002F	WAS PUMP NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	5	8	8(+)/A08	8(-)/B08	N/A	N/A
MS821WSP002A	WAS PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-824	1	3	5	9	9(+)/A09	9(-)/B09	N/A	N/A
UA821WSP002	WAS PUMP NO. 2 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-824	1	3	5	10	10(+)/A10	10(-)/B10	N/A	N/A
FSL821WSP003	WAS PUMP NO. 3 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-824	1	3	5	11	11(+)/A11	11(-)/B11	N/A	N/A
HS821WSP003E	WAS PUMP NO. 3 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	5	12	12(+)/A12	12(-)/B12	N/A	N/A
HS821WSP003F	WAS PUMP NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	5	13	13(+)/A13	13(-)/B13	N/A	N/A
MS821WSP003A	WAS PUMP NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-824	1	3	5	14	14(+)/A14	14(-)/B14	N/A	N/A
UA821WSP003	WAS PUMP NO. 3 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-824	1	3	5	15	15(+)/A15	15(-)/B15	N/A	N/A
LSH822ABN001A	EA1 VAULT SUMP LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	5	16	16(+)/A16	16(-)/B16	N/A	N/A
LSH822ABN002A	EA2 VAULT SUMP LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	6	1	1(+)/A01	1(-)/B01	N/A	N/A
FSL821WSP004	WAS PUMP NO. 4 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-824	1	3	6	2	2(+)/A02	2(-)/B02	N/A	N/A
HS821WSP004E	WAS PUMP NO. 4 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	6	3	3(+)/A03	3(-)/B03	N/A	N/A
HS821WSP004F	WAS PUMP NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	6	4	4(+)/A04	4(-)/B04	N/A	N/A
MS821WSP004A	WAS PUMP NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-824	1	3	6	5	5(+)/A05	5(-)/B05	N/A	N/A
UA821WSP004	WAS PUMP NO. 4 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-824	1	3	6	6	6(+)/A06	6(-)/B06	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
FSL821WSP005	WAS PUMP NO. 5 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-824	1	3	6	7	7(+)/A07	7(-)/B07	N/A	N/A
HS821WSP005E	WAS PUMP NO. 5 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	6	8	8(+)/A08	8(-)/B08	N/A	N/A
HS821WSP005F	WAS PUMP NO. 5 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	6	9	9(+)/A09	9(-)/B09	N/A	N/A
MS821WSP005A	WAS PUMP NO. 5 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 42-824	1	3	6	10	10(+)/A10	10(-)/B10	N/A	N/A
UA821WSP005	WAS PUMP NO. 5 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-824	1	3	6	11	11(+)/A11	11(-)/B11	N/A	N/A
MS824LTG001AA	AERATION - NORTH EAST LIGHTS	DI	ON	OFF	N/A	N/A	N/A	DPU 42-824	1	3	6	12	12(+)/A12	12(-)/B12	N/A	N/A
LSH822ABN003A	EA3 VAULT SUMP LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	6	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSO821WSP005	E. WASTE SLUDGE PUMP NO. 5 (E-2) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-824	1	3	6	14				
	SPARE				N/A	N/A	N/A	DPU 42-824	1	3	6	15				
	SPARE				N/A	N/A	N/A	DPU 42-824	1	3	6	16				
FSL821WSP006	WAS PUMP NO. 6 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 42-824	1	3	7	1	1(+)/A01	1(-)/B01	N/A	N/A
HS821WSP006E	WAS PUMP NO. 6 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 42-824	1	3	7	2	2(+)/A02	2(-)/B02	N/A	N/A
HS821WSP006F	WAS PUMP NO. 6 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	7	3	3(+)/A03	3(-)/B03	N/A	N/A
LSH822ABN004A	EA4 VAULT SUMP LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	7	4	4(+)/A04	4(-)/B04	N/A	N/A
MS821WSP006A	WAS PUMP NO. 6 RUN STATUS	DI	ON	OFF	N/A	N/A	N/A	DPU 42-824	1	3	7	5	5(+)/A05	5(-)/B05	N/A	N/A
MS824LTG001BA	AERATION - SOUTH EAST LIGHTS	DI	ON	OFF	N/A	N/A	N/A	DPU 42-824	1	3	7	6	6(+)/A06	6(-)/B06	N/A	N/A
UA821WSP006	WAS PUMP NO. 6 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-824	1	3	7	7	7(+)/A07	7(-)/B07	N/A	N/A
ZS824MCC036A	EA-MCC036A BUS A MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 42-824	1	3	7	8	8(+)/A08	8(-)/B08	N/A	N/A
ZS824MCC036C	EA-MCC036A/B BUS A TO B TIE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 42-824	1	3	7	9	9(+)/A09	9(-)/B09	N/A	N/A
ZS824MCC036B	EA-MCC036B BUS B MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 42-824	1	3	7	10	10(+)/A10	10(-)/B10	N/A	N/A
EN824UPS001	DPU42 UPS STATUS	DI	BATTTRY	OFF	N/A	N/A	N/A	DPU 42-824	1	3	7	11	11(+)/A11	11(-)/B11	N/A	N/A
EAM824UPS001	DPU42 UPS ALARM STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 42-824	1	3	7	12	12(+)/A12	12(-)/B12	N/A	N/A
EAF824PNL100	DPU42 PRIMARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	7	13	13(+)/A13	13(-)/B13	N/A	N/A
EAF824PNL101	DPU42 SECONDARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 42-824	1	3	7	14	14(+)/A14	14(-)/B14	N/A	N/A
ZSO821WSP006	E. WASTE SLUDGE PUMP NO. 6 (E-2) CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-824	1	3	7	15				
	SPARE	DI			N/A	N/A	N/A	DPU 42-824	1	3	7	16				
HV820GSL401A	BASIN EA4-PASS NO. 4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	5	1	1(+)/R01	1(-)/R01	N/A	N/A
HV820GSL401B	BASIN EA4-PASS NO. 4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	5	2	2(+)/R02	2(-)/R02	N/A	N/A
HV820GSL402A	BASIN EA4-PASS NO. 4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	5	3	3(+)/R03	3(-)/R03	N/A	N/A
HV820GSL402B	BASIN EA4-PASS NO. 4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	5	4	4(+)/R04	4(-)/R04	N/A	N/A
HV822GSL401A	BASIN EA4-PASS NO. 2 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	5	5	5(+)/R05	5(-)/R05	N/A	N/A
HV822GSL401B	BASIN EA4-PASS NO. 2 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	5	6	6(+)/R06	6(-)/R06	N/A	N/A
HV822GSL402A	BASIN EA4-PASS NO. 3 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	5	7	7(+)/R07	7(-)/R07	N/A	N/A
HV822GSL402B	BASIN EA4-PASS NO. 3 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	5	8	8(+)/R08	8(-)/R08	N/A	N/A
HV822GSL403A	BASIN EA4-PASS NO. 3 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	5	9	9(+)/R09	9(-)/R09	N/A	N/A
HV822GSL403B	BASIN EA4-PASS NO. 3 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	5	10	10(+)/R10	10(-)/R10	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	5	11				
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	5	12				
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	5	13				
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	5	14				
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	5	15				
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	5	16				
HV822GSL301A	BASIN EA3-PASS NO. 2 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	1	1(+)/R01	1(-)/R01	N/A	N/A
HV822GSL301B	BASIN EA3-PASS NO. 2 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	2	2(+)/R02	2(-)/R02	N/A	N/A
HV820GSL301A	BASIN EA3-PASS NO. 4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	3	3(+)/R03	3(-)/R03	N/A	N/A
HV820GSL301B	BASIN EA3-PASS NO. 4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	4	4(+)/R04	4(-)/R04	N/A	N/A
HV820GSL302A	BASIN EA3-PASS NO. 4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	5	5(+)/R05	5(-)/R05	N/A	N/A
HV820GSL302B	BASIN EA3-PASS NO. 4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	6	6(+)/R06	6(-)/R06	N/A	N/A
HV822GSL302A	BASIN EA3-PASS NO. 3 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	7	7(+)/R07	7(-)/R07	N/A	N/A
HV822GSL302B	BASIN EA3-PASS NO. 3 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	8	8(+)/R08	8(-)/R08	N/A	N/A
HV822GSL303A	BASIN EA3-PASS NO. 3 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	9	9(+)/R09	9(-)/R09	N/A	N/A
HV822GSL303B	BASIN EA3-PASS NO. 3 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	10	10(+)/R10	10(-)/R10	N/A	N/A
HS821WSP005A	WAS PUMP NO. 5 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	11	11(+)/R11	11(-)/R11	N/A	N/A
HS821WSP006A	WAS PUMP NO. 6 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-824	1	4	6	12	12(+)/R12	12(-)/R12	N/A	N/A
HS824LTG001BA	SE.AERATION STREET LIGHT CONTROL	DO	ON	OFF	N/A	N/A	N/A	DPU 42-824	1	4	6	13	13(+)/R13	13(-)/R13	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	6	14				
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	6	15				
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	6	16				
HV820GSL201A	BASIN EA2-PASS NO. 4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	1	1(+)/R01	1(-)/R01	N/A	N/A
HV820GSL201B	BASIN EA2-PASS NO. 4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	2	2(+)/R02	2(-)/R02	N/A	N/A
HV820GSL202A	BASIN EA2-PASS NO. 4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	3	3(+)/R03	3(-)/R03	N/A	N/A
HV820GSL202B	BASIN EA2-PASS NO. 4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	4	4(+)/R04	4(-)/R04	N/A	N/A
HV822GSL201A	BASIN EA2-PASS NO. 2 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	5	5(+)/R05	5(-)/R05	N/A	N/A
HV822GSL201B	BASIN EA2-PASS NO. 2 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	6	6(+)/R06	6(-)/R06	N/A	N/A
HV822GSL202A	BASIN EA2-PASS NO. 3 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	7	7(+)/R07	7(-)/R07	N/A	N/A
HV822GSL202B	BASIN EA2-PASS NO. 3 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	8	8(+)/R08	8(-)/R08	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HV822GSL203A	BASIN EA2-PASS NO. 3 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	9	9(+)/R09	9(-)/R09	N/A	N/A
HV822GSL203B	BASIN EA2-PASS NO. 3 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	10	10(+)/R10	10(-)/R10	N/A	N/A
HS821WSP003A	WAS PUMP NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	11	11(+)/R11	11(-)/R11	N/A	N/A
HS821WSP004A	WAS PUMP NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	12	12(+)/R12	12(-)/R12	N/A	N/A
HS824LTG001AA	NE.AERATION STREET LIGHT CONTROL	DO	ON	OFF	N/A	N/A	N/A	DPU 42-824	1	4	7	13	13(+)/R13	13(-)/R13	N/A	N/A
HS821WSP002A	WAS PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-824	1	4	7	14	14(+)/R14	14(-)/R14	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	7	15				
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	7	16				
HV820GSL101A	BASIN EA1-PASS NO. 4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	8	1	1(+)/R01	1(-)/R01	N/A	N/A
HV820GSL101B	BASIN EA1-PASS NO. 4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	8	2	2(+)/R02	2(-)/R02	N/A	N/A
HV820GSL102A	BASIN EA1-PASS NO. 4 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	8	3	3(+)/R03	3(-)/R03	N/A	N/A
HV820GSL102B	BASIN EA1-PASS NO. 4 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	8	4	4(+)/R04	4(-)/R04	N/A	N/A
HV822GSL101A	BASIN EA1-PASS NO. 2 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	8	5	5(+)/R05	5(-)/R05	N/A	N/A
HV822GSL101B	BASIN EA1-PASS NO. 2 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	8	6	6(+)/R06	6(-)/R06	N/A	N/A
HV822GSL102A	BASIN EA1-PASS NO. 3 IN-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	8	7	7(+)/R07	7(-)/R07	N/A	N/A
HV822GSL102B	BASIN EA1-PASS NO. 3 IN-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	8	8	8(+)/R08	8(-)/R08	N/A	N/A
HV822GSL103A	BASIN EA1-PASS NO. 3 OUT-GATE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 42-824	1	4	8	9	9(+)/R09	9(-)/R09	N/A	N/A
HV822GSL103B	BASIN EA1-PASS NO. 3 OUT-GATE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 42-824	1	4	8	10	10(+)/R10	10(-)/R10	N/A	N/A
SV825PHF005B	AERATION HYPO. ISO. VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-824	1	4	8	11	11(+)/R11	11(-)/R11	N/A	N/A
SV825PHF005C	AERATION HYPO. FLUSH VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 42-824	1	4	8	12	12(+)/R12	12(-)/R12	N/A	N/A
HS821WSP001A	WAS PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 42-824	1	4	8	13	13(+)/R13	13(-)/R13	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	8	14				
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	8	15				
	SPARE	DO			N/A	N/A	N/A	DPU 42-824	1	4	8	16				
ZC820ABN001A	BASIN EA1-PASS NO. 1 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	1	1	(+)/I1/A02	(-)/I1/B02	SH1/C01	NO
ZC820ABN001B	BASIN EA1-PASS NO. 4 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	1	2	(+)/I1/A02	(-)/I1/B02	SH1/C01	NO
	SPARE	AO	N/A	N/A				DPU 42-824	1	6	1	3				
ZC825PHF005	AERATION BASIN HYPO FLOW CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	1	4	(+)/I1/A02	(-)/I1/B02	SH1/C01	NO
ZC822ABN001	BASIN EA1-INFLUENT CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	2	1	(+)/I1/A02	(-)/I1/B02	SH1/C01	NO
ZC822ABN001A	BASIN EA1-PASS NO. 2 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	2	2	(+)/I2/A06	(-)/I2/B06	SH2/C05	NO
ZC822ABN001B	BASIN EA1-PASS NO. 3 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	2	3	(+)/I3/A10	(-)/I3/B10	SH3/C09	NO
SC821WSP001	EA-1 WAS PUMP SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	2	4	(+)/I4/A14	(-)/I4/B14	SH4/C13	NO
ZC820ABN002A	BASIN EA2-PASS NO. 1 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	3	1	(+)/I1/A02	(-)/I1/B02	SH1/C01	NO
ZC820ABN002B	BASIN EA2-PASS NO. 4 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	3	2	(+)/I2/A06	(-)/I2/B06	SH2/C05	NO
ZC821ABN002	BASIN EA2-CHANNEL AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	3	3	(+)/I3/A10	(-)/I3/B10	SH3/C09	NO
SC821WSP002	WAS PUMP SPEED NO. 2 CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	3	4	(+)/I4/A14	(-)/I4/B14	SH4/C13	NO
ZC822ABN002	BASIN EA2-INFLUENT CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	4	1	(+)/I1/A02	(-)/I1/B02	SH1/C01	NO
ZC822ABN002A	BASIN EA2-PASS NO. 2 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	4	2	(+)/I2/A06	(-)/I2/B06	SH2/C05	NO
ZC822ABN002B	BASIN EA2-PASS NO. 3 AIR CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	4	3	(+)/I3/A10	(-)/I3/B10	SH3/C09	NO
SC821WSP003	WAS PUMP NO. 3 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 42-824	1	6	4	4	(+)/I4/A14	(-)/I4/B14	SH4/C13	NO
FIT821WSP001	BASIN EA-1 WAS FLOW	AI	N/A	N/A	0	900 GPM		DPU 42-824	1	6	5	1	A1(+)/A01	A1(-)/B01	SH1/A02	NO
FIT821WSP001A	EAST TOTAL WAS FLOW	AI	N/A	N/A	0	2000 GPM		DPU 42-824	1	6	5	2	POS\A3	NEG\B3	SH\A4	NO
FIT821WSP003	BASIN EA-3 WAS FLOW	AI	N/A	N/A	0	900 GPM		DPU 42-824	1	6	5	3	A3(+)/A05	A3(-)/B05	SH3/A06	NO
FIT821WSP004	BASIN EA-4 WAS FLOW	AI	N/A	N/A	0	900 GPM		DPU 42-824	1	6	5	4	A4(+)/A07	A4(-)/B07	SH4/A08	NO
FIT825ABN001	PRIMARY INFLUENT/EFFLUENT AIR FLOW	AI	N/A	N/A	0	18000 SCFM		DPU 42-824	1	6	5	5	A5(+)/A09	A5(-)/B09	SH5/A10	YES
FIT835ABN001A	EAST MIXED LIQUOR AIR FLOW	AI	N/A	N/A	0	14000 SCFM		DPU 42-824	1	6	5	6	A6(+)/A11	A6(-)/B11	SH6/A12	YES
FIT835ABN001B	WEST MIXED LIQUOR AIR FLOW	AI	N/A	N/A	0	7800 SCFM		DPU 42-824	1	6	5	7	A8(+)/A15	A8(-)/B15	SH8/A16	YES
	SPARE	AI	N/A	N/A				DPU 42-824	1	6	5	8				
	SPARE	AI	N/A	N/A				DPU 42-824	1	6	8	1				
ST821WSP001	WAS PUMP NO. 1 SPEED	AI	N/A	N/A	0	100 %		DPU 42-824	1	6	8	2	A2(+)/A03	A2(-)/B04	SH2/A04	NO
ST821WSP002	WAS PUMP NO. 2 SPEED	AI	N/A	N/A	0	100 %		DPU 42-824	1	6	8	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ST821WSP003	WAS PUMP NO. 3 SPEED	AI	N/A	N/A	0	100 %		DPU 42-824	1	6	8	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
ST821WSP004	WAS PUMP NO. 4 SPEED	AI	N/A	N/A	0	100 %		DPU 42-824	1	6	8	5	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ST821WSP005	WAS PUMP NO. 5 SPEED	AI	N/A	N/A	0	100 %		DPU 42-824	1	6	8	6	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ST821WSP006	WAS PUMP NO. 6 SPEED	AI	N/A	N/A	0	100 %		DPU 42-824	1	6	8	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
	SPARE	AI	N/A	N/A				DPU 42-824	1	6	8	8				

I/O List

Dewatering Building 400

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
SIC400HSC005A	CENTRIFUGE NO. 5 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	1	1	1	A1(+)/A01	A1(-)/B02	SH1/A02	YES
SIC400HSC005B	CENTRIFUGE NO. 5 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	75	GPM	DPU 32-400	1	1	1	2	A4(+)/A07	A4(-)/B08	SH4/A08	YES
FIT400HSC005A	CENTRIFUGE NO. 5 SLUDGE FLOW	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	1	1	3	A5(+)/A09	A5(-)/B10	SH5/A10	NO
FIT400HSC005B	CENTRIFUGE NO. 5 POLYMER FLOW	AI	N/A	N/A	0	75	GPM	DPU 32-400	1	1	1	4	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ST400HSC005	CENTRIFUGE NO. 5 BOWL SPEED	AI	N/A	N/A	0	2800	RPM	DPU 32-400	1	1	1	5	(+)/I3/A10	(-/I3/B10	SH3/C09	NO
XT400HSC005	CENTRIFUGE NO. 5 TORQUE	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	1	6	(+)/I1/A02	(-/I1/B02	SH1/C01	NO
STD400HSC005	CENTRIFUGE NO. 5 DIFFERENTIAL SPEED	AI	N/A	N/A	0	20	RPM	DPU 32-400	1	1	1	7	(+)/I3/A10	(-/I3/B10	SH3/C09	NO
ST400TFP001	THICKENING FEED PUMP NO. 1 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	1	8				
SIC400HSC006A	CENTRIFUGE NO. 6 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	1	2	1	A4(+)/A07	A4(-)/B08	SH4/A08	YES
SIC400HSC006B	CENTRIFUGE NO. 6 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	75	GPM	DPU 32-400	1	1	2	2	A5(+)/A09	A5(-)/B10	SH5/A10	YES
FIT400HSC006A	CENTRIFUGE NO. 6 SLUDGE FLOW	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	1	2	3	A5(+)/A09	A5(-)/B10	SH5/A10	NO
FIT400HSC006B	CENTRIFUGE NO. 6 POLYMER FLOW	AI	N/A	N/A	0	75	GPM	DPU 32-400	1	1	2	4	A5(+)/A09	A5(-)/B10	SH5/A10	NO
	SPARE (BAD POINT?)	AI	N/A	N/A				DPU 32-400	1	1	2	5				
XT400HSC006	CENTRIFUGE NO. 6 TORQUE	AI	N/A	N/A	0	2800	RPM	DPU 32-400	1	1	2	6	(+)/I3/A10	(-/I3/B10	SH3/C09	NO
STD400HSC006	CENTRIFUGE NO. 6 DIFFERENTIAL SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	2	7				NO
ST400HSC006	CENTRIFUGE NO. 6 BOWL SPEED	AI	N/A	N/A	0	20	RPM	DPU 32-400	1	1	2	8	(+)/I3/A10	(-/I3/B10	SH3/C09	NO
SIC400HSC007A	CENTRIFUGE NO. 7 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	1	3	1	A5(+)/A09	A5(-)/B10	SH5/A10	YES
SIC400HSC007B	CENTRIFUGE NO. 7 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	75	GPM	DPU 32-400	1	1	3	2	A2(+)/A03	A2(-)/B04	SH2/A04	YES
FIT400HSC007A	CENTRIFUGE NO. 7 SLUDGE FLOW	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	1	3	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
FIT400HSC007B	CENTRIFUGE NO. 7 POLYMER FLOW	AI	N/A	N/A	0	75	GPM	DPU 32-400	1	1	3	4	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ST400HSC007	CENTRIFUGE NO. 7 BOWL SPEED	AI	N/A	N/A	0	2800	RPM	DPU 32-400	1	1	3	5	(+)/I2/A06	(-/I2/B06	SH2/C05	NO
XT400HSC007	CENTRIFUGE NO. 7 TORQUE	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	3	6	(+)/I1/A02	(-/I1/B02	SH1/C01	NO
STD400HSC007	CENTRIFUGE NO. 7 DIFFERENTIAL SPEED	AI	N/A	N/A	0	20	RPM	DPU 32-400	1	1	3	7	(+)/I3/A10	(-/I3/B10	SH3/C09	NO
FIT400TGB001A	GBT NO. 1 FEED FLOW	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	1	3	8				
SIC400HSC008A	CENTRIFUGE NO. 8 SLUDGE CONTROL SETPOINT-PANEL (FUTURE)	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	1	4	1	A5(+)/A09	A5(-)/B10	SH5/A10	YES
SIC400HSC008B	CENTRIFUGE NO. 8 POLYMER CONTROL SETPOINT-PANEL (FUTURE)	AI	N/A	N/A	0	75	GPM	DPU 32-400	1	1	4	2	A2(+)/A03	A2(-)/B04	SH2/A04	YES
FIT400HSC008A	CENTRIFUGE NO. 8 SLUDGE FLOW (FUTURE)	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	1	4	3	A3(+)/A05	A3(-)/B06	SH3/A06	NO
FIT400HSC008B	CENTRIFUGE NO. 8 POLYMER FLOW (FUTURE)	AI	N/A	N/A	0	75	GPM	DPU 32-400	1	1	4	4	A5(+)/A09	A5(-)/B10	SH5/A10	NO
ST400HSC008	CENTRIFUGE NO. 8 BOWL SPEED (FUTURE)	AI	N/A	N/A	0	2800	RPM	DPU 32-400	1	1	4	5	(+)/I2/A06	(-/I2/B06	SH2/C05	NO
XT400HSC008	CENTRIFUGE NO. 8 TORQUE (FUTURE)	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	4	6	(+)/I1/A02	(-/I1/B02	SH1/C01	NO
STD400HSC008	CENTRIFUGE NO. 8 DIFFERENTIAL SPEED (FUTURE)	AI	N/A	N/A	0	20	RPM	DPU 32-400	1	1	4	7	(+)/I3/A14	(-/I3/B14	SH3/C13	NO
ST400TGB001	GBT NO. 1 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	4	8				
ST400DFP001	DEWATERING FEED PUMP NO. 1 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	5	1	(+)/I2/A06	(-/I2/B06	SH2/C05	NO
ST400PPF021	POLYMER FEED PUMP NO. 21 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	5	2	(+)/I3/A14	(-/I3/B14	SH3/C13	NO
LIT400PMT021	POLYMER MIX TANK NO. 21 LEVEL	AI	N/A	N/A	0	6.5	FEET	DPU 32-400	1	1	5	3	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ST400PMX021	POLYMER MIX UNIT NO. 21 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	5	4	(+)/I3/A14	(-/I3/B14	SH3/C13	NO
LIT400DFT001	DEWATERING FEED TANK NO. 1 LEVEL	AI	N/A	N/A	0	45	FEET	DPU 32-400	1	1	5	5	A1(+)/A01	A1(-)/B02	SH1/A02	NO
FIT400PMT001	POLYMER MIX/AGE TANKS NO. 11/12 DILUTION WATER FLOW	AI	N/A	N/A	0	300	GPM	DPU 32-400	1	1	5	6	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ST400PTS001	THICKENED SLUDGE PUMP NO. 1 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	5	7				
LIT400PMT011	POLYMER MIXING TANK NO. 11 LEVEL	AI	N/A	N/A	0	6.5	FEET	DPU 32-400	1	1	5	8				
ST400DFP002	DEWATERING FEED PUMP NO. 2 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	6	1	(+)/I1/A02	(-/I1/B02	SH1/C01	NO
ST400PPF022	POLYMER FEED PUMP NO. 22 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	6	2	(+)/I3/A14	(-/I3/B14	SH3/C13	NO
	SPARE	AI	N/A	N/A				DPU 32-400	1	1	6	3				
ST400PMX022	POLYMER MIX UNIT NO. 22 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	6	4	(+)/I2/A06	(-/I2/B06	SH2/C05	NO
LIT400DFT002	DEWATERING FEED TANK NO. 2 LEVEL	AI	N/A	N/A	0	45	FEET	DPU 32-400	1	1	6	5	A2(+)/A03	A2(-)/B04	SH2/A04	NO
FIT400PMT002	POLYMER MIX/AGE TANKS NO. 21/22/23 DILUTION WATER FLOW	AI	N/A	N/A	0	400	GPM	DPU 32-400	1	1	6	6	A3(+)/A05	A3(-)/B06	SH3/A06	NO
ST400DFP003	DEWATERING FEED PUMP NO. 3 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	6	7	(+)/A13	(-/I3/B14	SH1/A14	NO
LIT400PMT022	POLYMER MIX TANK NO. 22 LEVEL	AI	N/A	N/A	0	6.5	FEET	DPU 32-400	1	1	6	8	(+)	(-)	(SH)	NO
ST400PPF011	POLYMER FEED PUMP NO. 11 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	7	1				
ST400PPF023	POLYMER FEED PUMP NO. 23 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	7	2	(+)/I3/A14	(-/I3/B14	SH3/C13	NO
LIT400PMT023	POLYMER MIX TANK NO. 23 LEVEL	AI	N/A	N/A	0	6.5	FEET	DPU 32-400	1	1	7	3	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ST400PMX023	POLYMER MIX UNIT NO. 23 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	7	4	(+)/I3/A10	(-/I3/B10	SH3/C09	NO
LIT400TFT001	THICKENING FEED TANK NO. 1 LEVEL	AI	N/A	N/A	0	25	FEET	DPU 32-400	1	1	7	5	A2(+)/A03	A2(-)/B04	SH2/A04	NO
WT400SBC003	SLUDGE BELT NO. 3 WEIGHT	AI	N/A	N/A	0	2000	LBS	DPU 32-400	1	1	7	6	(+)/I3/A14	(-/I3/B14	SH3/C13	NO
JIT400MCC040	DEWATERING-MCC040 POWER USAGE	AI	N/A	N/A	0	1700	KW	DPU 32-400	1	1	7	7	A3(+)/A05	A3(-)/B06	SH3/A06	NO
JIT400MCC041	DEWATERING-MCC041 POWER USAGE	AI	N/A	N/A	0	1700	KW	DPU 32-400	1	1	7	8	A1(+)/A01	A1(-)/B01	SH1/A02	NO
ST400DFP004	DEWATERING FEED PUMP NO. 4 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	8	1	(+)/I1/A02	(-/I1/B02	SH1/C01	NO
ST400PPF024	POLYMER FEED PUMP NO. 24 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	8	2	(+)/I3/A14	(-/I3/B14	SH3/C13	NO
WT400SBC004	SLUDGE BELT NO. 4 WEIGHT	AI	N/A	N/A	0	2000	LBS	DPU 32-400	1	1	8	3	(+)/I3/A14	(-/I3/B14	SH3/C13	NO
ST400DFP008	DEWATERING FEED PUMP NO. 8 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	8	4	(+)/I3/A10	(-/I3/B10	SH3/C09	NO
ST400PPF028	POLYMER FEED PUMP NO. 28 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	1	8	5	(+)/I1/A02	(-/I1/B02	SH1/C01	NO
JIT400MCC045A	DEWATERING-MCC45A POWER USAGE	AI	N/A	N/A	0	1330	KW	DPU 32-400	1	1	8	6	A7(+)/A13	A7(-)/B14	SH7/A14	NO
JIT400MCC046A	DEWATERING-MCC46A POWER USAGE	AI	N/A	N/A	0	1330	KW	DPU 32-400	1	1	8	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
FIT400TGB001B	GBT NO. 1 POLYMER FEED FLOW	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	1	8	8				
ST400DFP005	DEWATERING FEED PUMP NO. 5 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	1	1	(+)/I2/A06	(-/I2/B06	SH2/C05	NO
ST400PPF025	POLYMER FEED PUMP NO. 25 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	1	2	(+)/I3/A14	(-/I3/B14	SH3/C13	NO
LIT400TFT002	THICKENING FEED TANK NO. 2 LEVEL	AI	N/A	N/A	0	25	FEET	DPU 32-400	1	2	1	3	A1(+)/A01	A1(-)/B02	SH1/A02	NO
ST400DFP009	DEWATERING FEED PUMP NO. 9 SPEED (FUTURE)	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	1	4	(+)/I3/A10	(-/I3/B10	SH3/C09	NO

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
ST400PFP029	POLYMER FEED PUMP NO. 29 SPEED (FUTURE)	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	1	5	(+)/I1/A02	(-)/B02	SH1/C01	NO
JIT400MCC045B	DEWATERING-MCC45B POWER USAGE	AI	N/A	N/A	0	1330	KW	DPU 32-400	1	2	1	6	A7(+)/A13	A7(-)/B14	SH7/A14	NO
JIT400MCC046B	DEWATERING-MCC46B POWER USAGE	AI	N/A	N/A	0	1330	KW	DPU 32-400	1	2	1	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ST400TFP002	THICKENING FEED PUMP NO. 2 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	1	8				
ST400DFP006	DEWATERING FEED PUMP NO. 6 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	2	1	(+)/I3/A10	(-)/B10	SH3/C09	NO
ST400PFP026	POLYMER FEED PUMP NO. 26 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	2	2	(+)/I3/A14	(-)/B14	SH3/C13	NO
LIT400TPS021	POLYMER STORAGE TANK NO. 21 LEVEL	AI	N/A	N/A	0	7100	GAL	DPU 32-400	1	2	2	3	A2(+)/A03	A2(-)/B04	SH2/A04	NO
JIT400MCC044A	DEWATERING-MCC44A POWER USAGE	AI	N/A	N/A	0	1330	KW	DPU 32-400	1	2	2	4	A3(+)/A05	A3(-)/B06	SH3/A06	NO
JIT400USS015A	DEWATERING-USS15A POWER USAGE	AI	N/A	N/A	0	3325	KW	DPU 32-400	1	2	2	5	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ST400PEW001	DEWATERING EFW PUMP NO. 1 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	2	6	(+)/I3/A10	(-)/B10	SH3/C09	NO
JIT400USS028A	DEWATERING-USS28A POWER USAGE	AI	N/A	N/A	0	3325	KW	DPU 32-400	1	2	2	7	A7(+)/A13	A7(-)/B14	SH7/A14	NO
JIT400USS028B	DEWATERING-USS28B POWER USAGE	AI	N/A	N/A	0	3325	KW	DPU 32-400	1	2	2	8	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ST400DFP007	DEWATERING FEED PUMP NO. 7 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	3	1	(+)/I1/A02	(-)/B02	SH1/C01	NO
ST400PFP027	POLYMER FEED PUMP NO. 27 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	3	2	(+)/I3/A14	(-)/B14	SH3/C13	NO
LIT400TPS022	POLYMER STORAGE TANK NO. 22 LEVEL	AI	N/A	N/A	0	7500	GAL	DPU 32-400	1	2	3	3	A1(+)/A01	A1(-)/B02	SH1/A02	NO
JIT400MCC044B	DEWATERING-MCC44B POWER USAGE	AI	N/A	N/A	0	1330	KW	DPU 32-400	1	2	3	4	A1(+)/A01	A1(-)/B01	SH1/A02	NO
JIT400USS015B	DEWATERING-USS15B POWER USAGE	AI	N/A	N/A	0	3325	KW	DPU 32-400	1	2	3	5	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ST400PEW002	DEWATERING EFW PUMP NO. 2 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	3	6	(+)/I3/A14	(-)/B14	SH3/C13	NO
SIC400TFP004A	GBT NO. 4 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	2	3	7				
SIC400TFP004B	GBT NO. 4 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	2	3	8				
PT400PEW001	DEWATERING EFW PRESSURE	AI	N/A	N/A	0	150	PSIG	DPU 32-400	1	2	4	1	A2(+)/A03	A2(-)/B04	SH2/A04	YES
PT400ISA001	DEWATERING BUILDING AIR PRESSURE	AI	N/A	N/A	0	150	PSIG	DPU 32-400	1	2	4	2				YES
LIT400TSS002	THICKENED SLUDGE SUMP NO. 2 LEVEL	AI	N/A	N/A	0	8	FEET	DPU 32-400	1	2	4	3				
FIT400CWT013	CITY WATER TAP 13 FLOW	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	2	4	4				NO
ST400PTS002	THICKENED SLUDGE PUMP NO. 2 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	4	5				
LIT400PMT012	POLYMER MIXING TANK NO. 12 LEVEL	AI	N/A	N/A	0	6.5	FEET	DPU 32-400	1	2	4	6				
ST400PFP012	POLYMER FEED PUMP NO. 12 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	4	7				
TT400DPU001	DEWATERING-DPU32 TEMPERATURE	AI	N/A	N/A	0	200	DEG F	DPU 32-400	1	2	4	8	A6(+)/A11	A6(-)/B11	SH6/A12	YES
SIC400HSC001A	CENTRIFUGE NO. 1 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	2	5	1	A8(+)/A15	A8(-)/B16	SH8/A16	YES
SIC400HSC001B	CENTRIFUGE NO. 1 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	20	GPM	DPU 32-400	1	2	5	2	A8(+)/A15	A8(-)/B16	SH8/A16	YES
FIT400HSC001A	CENTRIFUGE NO. 1 SLUDGE FLOW	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	2	5	3	A6(+)/A11	A6(-)/B12	SH6/A12	NO
FIT400HSC001B	CENTRIFUGE NO. 1 POLYMER FLOW	AI	N/A	N/A	0	40	GPM	DPU 32-400	1	2	5	4	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ST400HSC001	CENTRIFUGE NO. 1 BOWL SPEED	AI	N/A	N/A	0	2800	RPM	DPU 32-400	1	2	5	5	(+)/I3/A10	(-)/B10	SH3/C09	NO
XT400HSC001	CENTRIFUGE NO. 1 TORQUE	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	5	6	(+)/I1/A02	(-)/B02	SH1/C01	NO
STD400HSC001	CENTRIFUGE NO. 1 DIFFERENTIAL SPEED	AI	N/A	N/A	0	20	RPM	DPU 32-400	1	2	5	7	(+)/I3/A10	(-)/B10	SH3/C09	NO
FIT400TGB002B	GBT NO. 2 POLYMER FEED FLOW	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	2	5	8				
SIC400HSC002A	CENTRIFUGE NO. 2 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	2	6	1	A1(+)/A01	A1(-)/B02	SH1/A02	YES
SIC400HSC002B	CENTRIFUGE NO. 2 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	20	GPM	DPU 32-400	1	2	6	2	A1(+)/A01	A1(-)/B02	SH1/A02	YES
FIT400HSC002A	CENTRIFUGE NO. 2 SLUDGE FLOW	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	2	6	3	A4(+)/A07	A4(-)/B08	SH4/A08	NO
FIT400HSC002B	CENTRIFUGE NO. 2 POLYMER FLOW	AI	N/A	N/A	0	40	GPM	DPU 32-400	1	2	6	4	A4(+)/A07	A4(-)/B08	SH4/A08	NO
ST400HSC002	CENTRIFUGE NO. 2 BOWL SPEED	AI	N/A	N/A	0	2800	RPM	DPU 32-400	1	2	6	5	(+)/I3/A10	(-)/B10	SH3/C09	NO
XT400HSC002	CENTRIFUGE NO. 2 TORQUE	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	6	6	(+)/I1/A02	(-)/B02	SH1/C01	NO
STD400HSC002	CENTRIFUGE NO. 2 DIFFERENTIAL SPEED	AI	N/A	N/A	0	20	RPM	DPU 32-400	1	2	6	7	(+)/I3/A10	(-)/B10	SH3/C09	NO
ST400TFP004	THICKENING FEED PUMP NO. 4 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	6	8				
SIC400HSC003A	CENTRIFUGE NO. 3 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	2	7	1	A1(+)/A01	A1(-)/B02	SH1/A02	YES
SIC400HSC003B	CENTRIFUGE NO. 3 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	20	GPM	DPU 32-400	1	2	7	2	A1(+)/A01	A1(-)/B02	SH1/A02	YES
FIT400HSC003A	CENTRIFUGE NO. 3 SLUDGE FLOW	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	2	7	3	A6(+)/A11	A6(-)/B12	SH6/A12	NO
FIT400HSC003B	CENTRIFUGE NO. 3 POLYMER FLOW	AI	N/A	N/A	0	40	GPM	DPU 32-400	1	2	7	4	A6(+)/A11	A6(-)/B12	SH6/A12	NO
ST400HSC003	CENTRIFUGE NO. 3 BOWL SPEED	AI	N/A	N/A	0	2800	RPM	DPU 32-400	1	2	7	5	(+)/I3/A10	(-)/B10	SH3/C09	NO
XT400HSC003	CENTRIFUGE NO. 3 TORQUE	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	7	6	(+)/I1/A02	(-)/B02	SH1/C01	NO
STD400HSC003	CENTRIFUGE NO. 3 DIFFERENTIAL SPEED	AI	N/A	N/A	0	20	RPM	DPU 32-400	1	2	7	7	(+)/I3/A10	(-)/B10	SH3/C09	NO
ST400TGB004	GBT NO. 4 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	7	8				
SIC400HSC004A	CENTRIFUGE NO. 4 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	2	8	1	A1(+)/A01	A1(-)/B02	SH1/A02	YES
SIC400HSC004B	CENTRIFUGE NO. 4 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	20	GPM	DPU 32-400	1	2	8	2	A1(+)/A01	A1(-)/B02	SH1/A02	YES
FIT400HSC004A	CENTRIFUGE NO. 4 SLUDGE FLOW	AI	N/A	N/A	0	500	GPM	DPU 32-400	1	2	8	3	A7(+)/A13	A7(-)/B14	SH7/A14	NO
FIT400HSC004B	CENTRIFUGE NO. 4 POLYMER FLOW	AI	N/A	N/A	0	40	GPM	DPU 32-400	1	2	8	4	A7(+)/A13	A7(-)/B14	SH7/A14	NO
ST400HSC004	CENTRIFUGE NO. 4 BOWL SPEED	AI	N/A	N/A	0	2800	RPM	DPU 32-400	1	2	8	5	(+)/I3/A10	(-)/B10	SH3/C09	NO
XT400HSC004	CENTRIFUGE NO. 4 TORQUE	AI	N/A	N/A	0	100	%	DPU 32-400	1	2	8	6	(+)/I1/A02	(-)/B02	SH1/C01	NO
STD400HSC004	CENTRIFUGE NO. 4 DIFFERENTIAL SPEED	AI	N/A	N/A	0	20	RPM	DPU 32-400	1	2	8	7	(+)/I3/A10	(-)/B10	SH3/C09	NO
SIC400TFP003A	GBT NO. 3 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	2	8	8				
	SPARE (CENTRIFUGE NO. 7 TORQUE CONTROL)	AO	N/A	N/A				DPU 32-400	1	3	1	1				
	SPARE (CENTRIFUGE NO. 7 GRADIENT CONTROL)	AO	N/A	N/A				DPU 32-400	1	3	1	2				
	SPARE (CENTRIFUGE NO. 7 DIFFERENTIAL SPEED CONTROL)	AO	N/A	N/A				DPU 32-400	1	3	1	3				
SC400TFP001	THICKENING FEED PUMP NO. 1 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	1	4				
FI400TGB001A	GBT NO.1 SLUDGE FLOW - OUT	AO	N/A	N/A	0	1000	GPM	DPU 32-400	1	3	1	5				
FI400TGB001B	GBT NO. 1 POLYMER FLOW - OUT	AO	N/A	N/A	0	350	GPH	DPU 32-400	1	3	1	6				
SC400TGB001	GBT NO. 1 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	1	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	1	8				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	2	1				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	2	2				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	2	3				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	2	4				
FI400TGB002A	GBT NO. 2 SLUDGE FLOW - OUT	AO	N/A	N/A	0	1000	GPM	DPU 32-400	1	3	2	5				
FI400TGB002B	GBT NO. 2 POLYMER FLOW - OUT	AO	N/A	N/A	0	350	GPH	DPU 32-400	1	3	2	6				
SC400TFP002	THICKENING FEED PUMP NO. 2 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	2	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	2	8				
FI400HSC001A	CENTRIFUGE NO. 1 SLUDGE FLOW-OUT	AO	N/A	N/A	0	350	GPM	DPU 32-400	1	3	3	1	A3(+)/A05	A3(-)/B06	SH3/A06	NO
FI400HSC001B	CENTRIFUGE NO. 1 POLYMER FLOW-OUT	AO	N/A	N/A	0	40	GPM	DPU 32-400	1	3	3	2	A4(+)/A07	A4(-)/B08	SH4/A08	NO
SC400DFP001	DEWATERING FEED PUMP NO. 1 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	3	3	A1(+)/A01	A1(-)/B02	SH1/A02	NO
SC400FPF021	POLYMER FEED PUMP NO. 21 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	3	4	A8(+)/A15	A8(-)/B16	SH8/A16	NO
SC400PTS002	THICKENED SLUDGE PUMP NO. 2 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	3	5				
SC400FPF011	POLYMER FEED PUMP NO. 11 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	3	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	3	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	3	8				
FI400HSC002A	CENTRIFUGE NO. 2 SLUDGE FLOW-OUT	AO	N/A	N/A	0	350	GPM	DPU 32-400	1	3	4	1	A3(+)/A05	A3(-)/B06	SH3/A06	NO
FI400HSC002B	CENTRIFUGE NO. 2 POLYMER FLOW-OUT	AO	N/A	N/A	0	40	GPM	DPU 32-400	1	3	4	2	A4(+)/A07	A4(-)/B08	SH4/A08	NO
SC400DFP002	DEWATERING FEED PUMP NO. 2 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	4	3	A2(+)/A03	A2(-)/B04	SH2/A04	NO
SC400PPF022	POLYMER FEED PUMP NO. 22 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	4	4	A7(+)/A13	A7(-)/B14	SH7/A14	NO
SC400PTS001	THICKENED SLUDGE PUMP NO. 1 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	4	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	4	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	4	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	4	8				
FI400HSC003A	CENTRIFUGE NO. 3 SLUDGE FLOW-OUT	AO	N/A	N/A	0	350	GPM	DPU 32-400	1	3	5	1	A3(+)/A05	A3(-)/B06	SH3/A06	NO
FI400HSC003B	CENTRIFUGE NO. 3 POLYMER FLOW-OUT	AO	N/A	N/A	0	40	GPM	DPU 32-400	1	3	5	2	A4(+)/A07	A4(-)/B08	SH4/A08	NO
SC400DFP003	DEWATERING FEED PUMP NO. 3 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	5	3	A1(+)/A01	A1(-)/B02	SH1/A02	NO
SC400PPF023	POLYMER FEED PUMP NO. 23 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	5	4	A8(+)/A15	A8(-)/B16	SH8/A16	NO
SC400TFP004	THICKENING FEED PUMP NO. 4 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	5	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	5	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	5	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	5	8				
FI400HSC004A	CENTRIFUGE NO. 4 SLUDGE FLOW-OUT	AO	N/A	N/A	0	350	GPM	DPU 32-400	1	3	6	1	A3(+)/A05	A3(-)/B06	SH3/A06	NO
FI400HSC004B	CENTRIFUGE NO. 4 POLYMER FLOW-OUT	AO	N/A	N/A	0	40	GPM	DPU 32-400	1	3	6	2	A4(+)/A07	A4(-)/B08	SH4/A08	NO
SC400DFP004	DEWATERING FEED PUMP NO. 4 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	6	3	A2(+)/A03	A2(-)/B04	SH2/A04	NO
SC400PPF024	POLYMER FEED PUMP NO. 24 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	6	4	A7(+)/A13	A7(-)/B14	SH7/A14	NO
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	6	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	6	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	6	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	6	8				
FI400HSC005A	CENTRIFUGE NO. 5 SLUDGE FLOW-OUT	AO	N/A	N/A	0	500	GPM	DPU 32-400	1	3	7	1	A3(+)/A05	A3(-)/B06	SH3/A06	NO
FI400HSC005B	CENTRIFUGE NO. 5 POLYMER FLOW-OUT	AO	N/A	N/A	0	75	GPM	DPU 32-400	1	3	7	2	A4(+)/A07	A4(-)/B08	SH4/A08	NO
SC400DFP005	DEWATERING FEED PUMP NO. 5 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	7	3	A1(+)/A01	A1(-)/B02	SH1/A02	NO
SC400PPF025	POLYMER FEED PUMP NO. 25 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	7	4	A8(+)/A15	A8(-)/B16	SH8/A16	NO
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	7	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	7	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	7	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	7	8				
FI400HSC006A	CENTRIFUGE NO. 6 SLUDGE FLOW-OUT	AO	N/A	N/A	0	500	GPM	DPU 32-400	1	3	8	1	A3(+)/A05	A3(-)/B06	SH3/A06	NO
FI400HSC006B	CENTRIFUGE NO. 6 POLYMER FLOW-OUT	AO	N/A	N/A	0	75	GPM	DPU 32-400	1	3	8	2	A4(+)/A07	A4(-)/B08	SH4/A08	NO
SC400DFP006	DEWATERING FEED PUMP NO. 6 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	8	3	A2(+)/A03	A2(-)/B04	SH2/A04	NO
SC400PPF026	POLYMER FEED PUMP NO. 26 CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	3	8	4	A8(+)/A15	A8(-)/B16	SH8/A16	NO
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	8	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	8	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	8	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	3	8	8				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	1	1				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	1	2				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	1	3				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	1	4				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	1	5				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	1	6				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	1	7				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	1	8				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	2	1				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	2	2				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	2	3				
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	2	4				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HIDE	SPARE	AO	N/A	N/A				DPU 32-400	1	4	2	5				
FI400HSC007A	CENTRIFUGE NO. 7 SLUDGE FLOW-OUT	AO	N/A	N/A	0	500 GPM		DPU 32-400	1	4	7	1	A3(+)/A05	A3(-)/B06	SH3/A06	NO
FI400HSC007B	CENTRIFUGE NO. 7 POLYMER FLOW-OUT	AO	N/A	N/A	0	75 GPM		DPU 32-400	1	4	7	2	A4(+)/A07	A4(-)/B08	SH4/A08	NO
SC400DFP007	DEWATERING FEED PUMP NO. 7 CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	4	7	3	A8(+)/A15	A8(-)/B16	SH8/A16	NO
SC400PFP027	POLYMER FEED PUMP NO. 27 CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	4	7	4	A8(+)/A15	A8(-)/B16	SH8/A16	NO
	SPARE	AO	N/A	N/A				DPU 32-400	1	4	7	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	4	7	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	4	7	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	4	7	8				
SC400PMX021	POLYMER MIX UNIT 21 CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	4	8	1	A7(+)/A13	A7(-)/B14	SH7/A14	NO
SC400PEW001	DEWATERING EFW PUMP1 CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	4	8	2	A8(+)/A15	A8(-)/B16	SH8/A16	NO
	SPARE	AO	N/A	N/A				DPU 32-400	1	4	8	3				
	SPARE	AO	N/A	N/A				DPU 32-400	1	4	8	4				
	SPARE	AO	N/A	N/A				DPU 32-400	1	4	8	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	4	8	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	4	8	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	4	8	8				
FI400HSC008A	CENTRIFUGE NO. 8 SLUDGE FLOW-OUT (FUTURE)	AO	N/A	N/A	0	350 GPM		DPU 32-400	1	5	1	1	A3(+)/A05	A3(-)/B06	SH3/A06	NO
FI400HSC008B	CENTRIFUGE NO. 8 POLYMER FLOW-OUT (FUTURE)	AO	N/A	N/A	0	40 GPM		DPU 32-400	1	5	1	2	A4(+)/A07	A4(-)/B08	SH4/A08	NO
SC400DFP008	DEWATERING FEED PUMP NO. 8 CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	1	3	A8(+)/A15	A8(-)/B16	SH8/A16	NO
SC400PFP028	POLYMER FEED PUMP NO. 28 CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	1	4	A7(+)/A13	A7(-)/B14	SH7/A14	NO
SC400TGB002	GBT NO. 2 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	1	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	1	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	1	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	1	8				
SC400PFP029	POLYMER FEED PUMP NO. 29 CONTROL (FUTURE)	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	2	1	A8(+)/A15	A8(-)/B16	SH8/A16	NO
SC400DFP009	DEWATERING FEED PUMP NO. 9 CONTROL (FUTURE)	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	2	2	A8(+)/A15	A8(-)/B16	SH8/A16	NO
LI400TPS021	POLYMER STORAGE TANK NO. 21 LEVEL-OUT	AO	N/A	N/A	0	7500 GAL		DPU 32-400	1	5	2	3	A7(+)/A13	A7(-)/B14	SH7/A14	NO
SC400PMX022	POLYMER MIX UNIT NO. 22 CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	2	4	A8(+)/A15	A8(-)/B16	SH8/A16	NO
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	2	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	2	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	2	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	2	8				
LI400TPS022	POLYMER STORAGE TANK NO. 22 LEVEL-OUT	AO	N/A	N/A	0	7500 GAL		DPU 32-400	1	5	3	1	A7(+)/A13	A7(-)/B14	SH7/A14	NO
SC400PMX023	POLYMER MIX UNIT NO. 23 CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	3	2	A2(+)/A03	A2(-)/B03	SH2/A04	NO
SC400PEW002	DEWATERING EFW PUMP NO. 2 CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	3	3	A7(+)/A13	A7(-)/B14	SH7/A14	NO
SC400TFP007	THICKENING FEED PUMP NO. 7 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	3	4				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	3	5				
SC400PFP012	POLYMER FEED PUMP NO. 12 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	3	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	3	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	3	8				
SC400TFP003	THICKENING FEED PUMP NO. 3 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	4	1				
SC400TGB003	GBT NO. 3 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	4	2				
FI400TGB003A	GBT NO.3 SLUDGE FLOW - OUT	AO	N/A	N/A	0	1000 GPM		DPU 32-400	1	5	4	3				
SC400PTS003	THICKENED SLUDGE PUMP NO. 3 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	4	4				
SC400PFP013	POLYMER FEED PUMP NO. 13 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	4	5				
FI400TGB003B	GBT NO. 3 POLYMER FLOW - OUT	AO	N/A	N/A	0	350 GPH		DPU 32-400	1	5	4	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	4	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	4	8				
SC400PFP017	POLYMER FEED PUMP NO. 17 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	5	1				
SC400TGB004	GBT NO. 4 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	5	2				
FI400TGB004A	GBT NO. 4 SLUDGE FLOW - OUT	AO	N/A	N/A	0	1000 GPM		DPU 32-400	1	5	5	3				
SC400PTS004	THICKENED SLUDGE PUMP NO. 4 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	5	4				
FI400TGB004B	GBT NO. 4 POLYMER FLOW - OUT	AO	N/A	N/A	0	350 GPH		DPU 32-400	1	5	5	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	5	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	5	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	5	8				
SC400PFP014	POLYMER FEED PUMP NO. 14 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	6	1				
SC400TFP005	THICKENING FEED PUMP NO. 5 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	6	2				
SC400TGB005	GBT NO. 5 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	6	3				
FI400TGB005A	GBT NO. 5 SLUDGE FLOW - OUT	AO	N/A	N/A	0	1000 GPM		DPU 32-400	1	5	6	4				
FI400TGB005B	GBT NO. 5 POLYMER FLOW - OUT	AO	N/A	N/A	0	350 GPH		DPU 32-400	1	5	6	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	6	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	6	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	6	8				
SC400PFP015	POLYMER FEED PUMP NO. 15 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	7	1				
SC400TFP006	THICKENING FEED PUMP NO. 6 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	7	2				
SC400TGB006	GBT NO. 6 SPEED CONTROL	AO	N/A	N/A	0	100 %		DPU 32-400	1	5	7	3				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
FI400TGB006A	GBT NO. 6 SLUDGE FLOW - OUT	AO	N/A	N/A	0	1000	GPM	DPU 32-400	1	5	7	4				
FI400TGB006B	GBT NO. 6 POLYMER FLOW - OUT	AO	N/A	N/A	0	350	GPH	DPU 32-400	1	5	7	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	7	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	7	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	7	8				
SC400PFP016	POLYMER FEED PUMP NO. 16 SPEED CONTROL	AO	N/A	N/A	0	100	%	DPU 32-400	1	5	8	1				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	8	2				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	8	3				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	8	4				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	8	5				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	8	6				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	8	7				
	SPARE	AO	N/A	N/A				DPU 32-400	1	5	8	8				
SIC400TFP003B	GBT NO. 3 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	6	4	1				
FIT400TGB003A	GBT NO. 3 FEED FLOW	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	6	4	2				
FIT400TGB003B	GBT NO. 3 POLYMER FEED FLOW	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	6	4	3				
ST400TGB003	GBT NO. 3 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	4	4				
LIT400TSS001	THICKENED SLUDGE SUMP NO. 1 LEVEL	AI	N/A	N/A	0	8	FEET	DPU 32-400	1	6	4	5				
ST400PTS003	THICKENED SLUDGE PUMP NO. 3 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	4	6				
ST400TFP003	THICKENING FEED PUMP NO. 3 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	4	7				
ST400PFP013	POLYMER FEED PUMP NO. 13 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	4	8				
SIC400TFP005A	GBT NO. 5 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	6	5	1				
SIC400TFP005B	GBT NO. 5 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	6	5	2				
FIT400TGB005A	GBT NO. 5 FEED FLOW	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	6	5	3				
FIT400TGB005B	GBT NO. 5 POLYMER FEED FLOW	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	6	5	4				
ST400TGB005	GBT NO. 5 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	5	5				
FIT400PTS001	THICKENED SLUDGE PUMP DISCHARGE FLOW	AI	N/A	N/A	0	600	GPM	DPU 32-400	1	6	5	6				
ST400TFP005	THICKENING FEED PUMP NO. 5 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	5	7				
ST400PFP015	POLYMER FEED PUMP NO. 15 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	5	8				
SIC400TFP006A	GBT NO. 6 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	6	6	1				
SIC400TFP006B	GBT NO. 6 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	6	6	2				
FIT400TGB006A	GBT NO. 6 FEED FLOW	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	6	6	3				
FIT400TGB006B	GBT NO. 6 POLYMER FEED FLOW	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	6	6	4				
ST400TGB006	GBT NO. 6 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	6	5				
FIT400PTS002	THICKENED SLUDGE PUMP DISCHARGE FLOW	AI	N/A	N/A	0	600	GPM	DPU 32-400	1	6	6	6				
ST400TFP006	THICKENING FEED PUMP NO. 6 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	6	7				
ST400PFP016	POLYMER FEED PUMP NO. 16 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	6	8				
LIT400TPS013	POLYMER STORAGE TANK NO. 13 LEVEL	AI	N/A	N/A	0	7500	GAL	DPU 32-400	1	6	7	1				
SIC400TFP001A	GBT NO. 1 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	6	7	2				
SIC400TFP001B	GBT NO. 1 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	6	7	3				
ST400TFP007	THICKENING FEED PUMP NO. 7 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	7	4				
ST400PFP014	POLYMER FEED PUMP NO. 14 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	7	5				
	SPARE	AI	N/A	N/A				DPU 32-400	1	6	7	6				
ST400TGB002	GBT NO. 2 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	7	7				
FIT400TGB002A	GBT NO. 2 FEED FLOW	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	6	7	8				
ST400PTS004	THICKENED SLUDGE PUMP NO. 4 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	8	1				
SIC400TFP002A	GBT NO. 2 SLUDGE CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	6	8	2				
SIC400TFP002B	GBT NO. 2 POLYMER CONTROL SETPOINT-PANEL	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	6	8	3				
FIT400TGB004A	GBT NO. 4 FEED FLOW	AI	N/A	N/A	0	1000	GPM	DPU 32-400	1	6	8	4				
FIT400TGB004B	GBT NO. 4 POLYMER FEED FLOW	AI	N/A	N/A	0	350	GPH	DPU 32-400	1	6	8	5				
ST400PFP017	POLYMER FEED PUMP NO. 17 SPEED	AI	N/A	N/A	0	100	%	DPU 32-400	1	6	8	6				
	SPARE	AI	N/A	N/A				DPU 32-400	1	6	8	7				
	SPARE	AI	N/A	N/A				DPU 32-400	1	6	8	8				
FSL400TFP005	THICKENING FEED PUMP NO. 5 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	1	7	3	1				
ZSO400TFP005	THICKENING FEED PUMP NO. 5 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	1	7	3	2				
HS400TFP005E	THICKENING FEED PUMP NO. 5 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	7	3	3				
HS400TFP005F	THICKENING FEED PUMP NO. 5 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	3	4				
MS400TFP005A	THICKENING FEED PUMP NO. 5 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	7	3	5				
UA400TFP005	THICKENING FEED PUMP NO. 5 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	7	3	6				
FSL400FVE001	ODOR CONTROL FAN ROOM EXHAUST LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	3	7				
XS400FVE001	ODOR CONTROL FAN ROOM HIGH GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	3	8				
XS400FVE002	ODOR CONTROL FAN ROOM GAS PANEL FAULT	DI	TROUBLE	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	3	9				
PSL400PTS004	THICKENED SLUDGE PUMP NO. 4 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	3	10				
PSH400PTS004	THICKENED SLUDGE PUMP NO. 4 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	3	11				
HS400PTS004E	THICKENED SLUDGE PUMP NO. 4 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	7	3	12				
MS400PTS004A	THICKENED SLUDGE PUMP NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	7	3	13				
UA400PTS004	THICKENED SLUDGE PUMP NO. 4 AFD FAULT	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	7	3	14				
MS400PTS004F	THICKENED SLUDGE PUMP NO. 4 E-STOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	3	15				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
LSH400TSS001A	THICKENED SLUDGE SUMP NO. 1 LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	3	16				
HS400GPS005A	W. PRIM. SLUDGE PS TO PRIMARY GRINDER NO. 2 VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	4	1				
HS400GPS005B	W. PRIM. SLUDGE PS TO PRIMARY GRINDER NO. 2 VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	4	2				
ZSO400GPS005	W. PRIM. SLUDGE PS TO PRIMARY GRINDER NO. 2 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	4	3				
ZSC400GPS005	W. PRIM. SLUDGE PS TO PRIMARY GRINDER NO. 2 VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	4	4				
HS400GWS001AA	WASTE SLUDGE GRINDER NO. 1 INLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	4	5				
HS400GWS001AB	WASTE SLUDGE GRINDER NO. 1 INLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	4	6				
ZSO400GWS001	WASTE SLUDGE GRINDER NO. 1 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	4	7				
ZSC400GW5001	WASTE SLUDGE GRINDER NO. 1 INLET VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	4	8				
HS400GWS006A	WASTE SLUDGE GRINDER NO. 1 OUTLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	4	9				
HS400GWS006B	WASTE SLUDGE GRINDER NO. 1 OUTLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	4	10				
ZSO400GWS006	WASTE SLUDGE GRINDER NO. 1 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	4	11				
ZSC400GW5006	WASTE SLUDGE GRINDER NO. 1 OUTLET VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	4	12				
FSL400DBB001	DEWATERING BUILDING BASEMENT EXHAUST LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	4	13				
XS400DBB001	DEWATERING BUILDING BASEMENT HIGH GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	4	14				
XS400DBB002	DEWATERING BUILDING BASEMENT GAS PANEL FAULT	DI	TROUBLE	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	4	15				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	1	7	4	16				
HS400GPS004A	PRIMARY SLUDGE GRINDER NO. 4 INLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	5	1				
HS400GPS004B	PRIMARY SLUDGE GRINDER NO. 4 INLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	5	2				
ZSO400GPS004	PRIMARY SLUDGE GRINDER NO. 4 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	5	3				
ZSC400GPS004	PRIMARY SLUDGE GRINDER NO. 4 INLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	5	4				
HS400GPS004E	PRIMARY SLUDGE GRINDER NO. 4 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	7	5	5				
HS400GPS004F	PRIMARY SLUDGE GRINDER NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	5	6				
MS400GPS004A	PRIMARY SLUDGE GRINDER NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	7	5	7				
XA400GPS004	PRIMARY SLUDGE GRINDER NO. 4 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	5	8				
HS400GPS008A	PRIMARY SLUDGE GRINDER NO. 4 OUTLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	5	9				
HS400GPS008B	PRIMARY SLUDGE GRINDER NO. 4 OUTLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	5	10				
ZSO400GPS008	PRIMARY SLUDGE GRINDER NO. 4 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	5	11				
ZSC400GPS008	PRIMARY SLUDGE GRINDER NO. 4 OUTLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	5	12				
FSL400HVF001	MECHANICAL ROOM EXHAUST LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	5	13				
XS400HVF001	MECHANICAL ROOM HIGH GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	5	14				
XS400HVF002	MECHANICAL ROOM GAS PANEL FAULT	DI	TROUBLE	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	5	15				
HS400PMT012A	POLYMER MIXING TANK NO. 12 INLET VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	7	5	16				
ZSO400PMT012A	POLYMER MIXING TANK NO. 12 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	6	1				
ZSC400PMT012A	POLYMER MIXING TANK NO. 12 INLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	6	2				
HS400GPS001A	PRIMARY SLUDGE GRINDER NO. 1 INLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	6	3				
HS400GPS001B	PRIMARY SLUDGE GRINDER NO. 1 INLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	6	4				
ZSO400GPS001	PRIMARY SLUDGE GRINDER NO. 1 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	6	5				
ZSC400GPS001	PRIMARY SLUDGE GRINDER NO. 1 INLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	6	6				
HS400GPS006A	PRIMARY SLUDGE GRINDER NO. 1 OUTLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	6	7				
HS400GPS006B	PRIMARY SLUDGE GRINDER NO. 1 OUTLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	6	8				
ZSO400GPS006	PRIMARY SLUDGE GRINDER NO. 1 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	6	9				
ZSC400GPS006	PRIMARY SLUDGE GRINDER NO. 1 OUTLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	6	10				
HS400PMT011B	POLYMER MIXING TANK NO. 11 OUTLET VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	7	6	11				
ZSO400PMT011B	POLYMER MIXING TANK NO. 11 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	6	12				
ZSC400PMT011B	POLYMER MIXING TANK NO. 11 OUTLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	6	13				
FSL400DFT001	DEWATERING FEED TANK MIXER ROOM EXHAUST LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	6	14				
XS400DFT001	DEWATERING FEED TANK MIXER ROOM HIGH GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	6	15				
XS400DFT002	DEWATERING FEED TANK MIXER ROOM GAS PANEL FAULT	DI	TROUBLE	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	6	16				
HS400GPS002A	PRIMARY SLUDGE GRINDER NO. 2 INLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	7	1				
HS400GPS002B	PRIMARY SLUDGE GRINDER NO. 2 INLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	7	2				
ZSO400GPS002	PRIMARY SLUDGE GRINDER NO. 2 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	7	3				
ZSC400GPS002	PRIMARY SLUDGE GRINDER NO. 2 INLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	7	4				
HS400GPS007A	PRIMARY SLUDGE GRINDER NO. 2 OUTLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	7	5				
HS400GPS007B	PRIMARY SLUDGE GRINDER NO. 2 OUTLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	7	6				
ZSO400GPS007	PRIMARY SLUDGE GRINDER NO. 2 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	7	7				
ZSC400GPS007	PRIMARY SLUDGE GRINDER NO. 2 OUTLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	7	8				
HS400GPS009A	PRIMARY SLUDGE GRINDER NO. 2 TO HEADER NO. 1 VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	7	9				
HS400GPS009B	PRIMARY SLUDGE GRINDER NO. 2 TO HEADER NO. 1 VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	7	10				
ZSO400GPS009	PRIMARY SLUDGE GRINDER NO. 2 TO HEADER NO. 1 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	7	11				
ZSC400GPS009	PRIMARY SLUDGE GRINDER NO. 2 TO HEADER NO. 1 VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	7	12				
HS400GPS010A	PRIMARY SLUDGE GRINDER NO. 2 TO HEADER NO. 2 VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	7	13				
HS400GPS010B	PRIMARY SLUDGE GRINDER NO. 2 TO HEADER NO. 2 VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	7	14				
ZSO400GPS010	PRIMARY SLUDGE GRINDER NO. 2 TO HEADER NO. 2 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	7	15				
ZSC400GPS010	PRIMARY SLUDGE GRINDER NO. 2 TO HEADER NO. 2 VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	7	16				
HS400TGB005E	GBT NO. 5 L-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	7	8	1				
HS400TGB005AF	GBT NO. 5 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	8	2				
HS400TGB005BF	GBT NO. 5 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	8	3				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
MS400TGB005A	GBT NO. 5 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	7	8	4				
UA400TGB005	GBT NO. 5 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	7	8	5				
UI400TGB005	GBT NO. 5 READY STATUS	DI	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	1	7	8	6				
MS400TGB005A	GBT NO. 5 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	7	8	7				
UA400TGB005	GBT NO. 5 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	7	8	8				
HS400GPS003A	E. PRIM. SLUDGE PS TO PRIMARY GRINDER NO. 2 VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	7	8	9				
HS400GPS003B	E. PRIM. SLUDGE PS TO PRIMARY GRINDER NO. 2 VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	7	8	10				
ZSO400GPS003	E. PRIM. SLUDGE PS TO PRIMARY GRINDER NO. 2 VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	8	11				
ZSC400GPS003	E. PRIM. SLUDGE PS TO PRIMARY GRINDER NO. 2 VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	7	8	12				
FSL400DBM001	DEWATERING BUILDING MEZZANINE EXHAUST LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	8	13				
XS400DBM001	DEWATERING BUILDING MEZZANINE HIGH GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	8	14				
XS400DBM002	DEWATERING BUILDING MEZZANINE GAS PANEL FAULT	DI	TROUBLE	NORMAL	N/A	N/A	N/A	DPU 32-400	1	7	8	15				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	1	7	8	16				
FSL400TFP001	THICKENING FEED PUMP NO. 1 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	1	8	1	1				
ZSO400TFP001	THICKENING FEED PUMP NO. 1 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	1	8	1	2				
HS400TFP001E	THICKENING FEED PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	1	3				
HS400TFP001F	THICKENING FEED PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	1	4				
MS400TFP001A	THICKENING FEED PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	1	5				
UA400TFP001	THICKENING FEED PUMP NO. 1 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	1	6				
UI400TGB001	GBT NO. 1 READY STATUS	DI	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	1	8	1	7				
HS400TGB001E	GBT NO. 1 L-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	1	8				
HS400TGB001AF	GBT NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	1	9				
HS400TGB001BF	GBT NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	1	10				
MS400TGB001A	GBT NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	1	11				
UA400TGB001	GBT NO. 1 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	1	12				
HS400TGB001AA	GBT NO. 1 FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	1	8	1	13				
HS400TGB001BA	GBT NO. 1 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	1	8	1	14				
HS400TGB001AE	GBT NO. 1 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	1	15				
HS400TGB001AS	GBT NO. 1 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP1	PUMP2	N/A	N/A	N/A	DPU 32-400	1	8	1	16				
HS400TGB001BS	GBT NO. 1 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP11	PUMP12	N/A	N/A	N/A	DPU 32-400	1	8	2	1				
PSL400PP011	POLYMER FEED PUMP NO. 11 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	2	2				
PSH400PP011	POLYMER FEED PUMP NO. 11 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	2	3				
HS400PP011E	POLYMER FEED PUMP NO. 11 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	2	4				
HS400PP011F	POLYMER FEED PUMP NO. 11 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	2	5				
MS400PP011A	POLYMER FEED PUMP NO. 11 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	2	6				
UA400PP011	POLYMER FEED PUMP NO. 11 FAULT STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	2	7				
FSL400TGB001B	GBT NO. 1 POLYMER POST DILUTION LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	2	8				
HS400PMX011E	POLYMER BLENDING UNIT NO. 11 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	2	9				
HS400PMX011F	POLYMER BLENDING UNIT NO. 11 E-STOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	2	10				
MS400PMX011A	POLYMER BLENDING UNIT NO. 11 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	2	11				
UA400PMX011	POLYMER BLENDING UNIT NO. 11 FAULT STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	2	12				
HS400PLM012E	POLYMER MIXER NO. 12 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	2	13				
HS400PLM012F	POLYMER MIXER NO. 12 E-STOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	2	14				
MS400PLM012A	POLYMER MIXER NO. 12 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	2	15				
FSL400TFP002	THICKENING FEED PUMP NO. 2 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	1	8	2	16				
ZSO400TFP002	THICKENING FEED PUMP NO. 2 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	1	8	3	1				
HS400TFP002E	THICKENING FEED PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	3	2				
HS400TFP002F	THICKENING FEED PUMP NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	3	3				
MS400TFP002A	THICKENING FEED PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	3	4				
UA400TFP002	THICKENING FEED PUMP NO. 2 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	3	5				
UI400TGB002	GBT NO. 2 READY STATUS	DI	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	1	8	3	6				
HS400TGB002E	GBT NO. 2 L-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	3	7				
HS400TGB002AF	GBT NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	3	8				
HS400TGB002BF	GBT NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	3	9				
MS400TGB002A	GBT NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	3	10				
UA400TGB002	GBT NO. 2 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	3	11				
LSH400TSS002A	THICKENED SLUDGE SUMP NO. 2 LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	3	12				
HS400TGB002AA	GBT NO. 2 FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	1	8	3	13				
HS400TGB002BA	GBT NO. 2 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	1	8	3	14				
HS400TGB002AE	GBT NO. 2 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	3	15				
HS400TGB002AS	GBT NO. 2 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP2	PUMP3	N/A	N/A	N/A	DPU 32-400	1	8	3	16				
HS400TGB002BS	GBT NO. 2 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP12	PUMP13	N/A	N/A	N/A	DPU 32-400	1	8	4	1				
PSL400PTS002	THICKENED SLUDGE PUMP NO. 2 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	4	2				
PSH400PTS002	THICKENED SLUDGE PUMP NO. 2 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	4	3				
HS400PTS002E	THICKENED SLUDGE PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	4	4				
MS400PTS002A	THICKENED SLUDGE PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	4	5				
UA400PTS002	THICKENED SLUDGE PUMP NO. 2 AFD FAULT	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	4	6				
HS400PTS002BF	THICKENED SLUDGE PUMP NO. 2 E-STOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	4	7				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
PSL400PP012	POLYMER FEED PUMP NO. 12 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	4	8				
PSH400PP012	POLYMER FEED PUMP NO. 12 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	4	9				
HS400PP012E	POLYMER FEED PUMP NO. 12 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	4	10				
HS400PP012F	POLYMER FEED PUMP NO. 12 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	4	11				
MS400PP012A	POLYMER FEED PUMP NO. 12 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	4	12				
UA400PP012	POLYMER FEED PUMP NO. 12 FAULT STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	4	13				
FSL400TGB002B	GBT NO. 2 POLYMER POST DILUTION LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	4	14				
HS400PMX012E	POLYMER BLENDING UNIT NO. 12 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	4	15				
HS400PMX012F	POLYMER BLENDING UNIT NO. 12 E-STOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	4	16				
MS400PMX012A	POLYMER BLENDING UNIT NO. 12 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	5	1				
UA400PMX012	POLYMER BLENDING UNIT NO. 12 FAULT STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	5	2				
FSL400TFP003	THICKENING FEED PUMP NO. 3 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	1	8	5	3				
ZSO400TFP003	THICKENING FEED PUMP NO. 3 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	1	8	5	4				
HS400TFP003E	THICKENING FEED PUMP NO. 3 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	5	5				
HS400TFP003F	THICKENING FEED PUMP NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	5	6				
MS400TFP003A	THICKENING FEED PUMP NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	5	7				
UA400TFP003	THICKENING FEED PUMP NO. 3 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	5	8				
UI400TGB003	GBT NO. 3 READY STATUS	DI	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	1	8	5	9				
HS400TGB003E	GBT NO. 3 L-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	5	10				
HS400TGB003AF	GBT NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	5	11				
HS400TGB003BF	GBT NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	5	12				
MS400TGB003A	GBT NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	5	13				
UA400TGB003	GBT NO. 3 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	5	14				
HS400TGB003AA	GBT NO. 3 FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	1	8	5	15				
HS400TGB003BA	GBT NO. 3 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	1	8	5	16				
HS400TGB003AE	GBT NO. 3 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	6	1				
HS400TGB003AS	GBT NO. 3 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP3	PUMP4	N/A	N/A	N/A	DPU 32-400	1	8	6	2				
HS400TGB003BS	GBT NO. 3 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP13	PUMP14	N/A	N/A	N/A	DPU 32-400	1	8	6	3				
PSL400PP013	POLYMER FEED PUMP NO. 13 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	6	4				
PSH400PP013	POLYMER FEED PUMP NO. 13 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	6	5				
HS400PP013E	POLYMER FEED PUMP NO. 13 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	6	6				
HS400PP013F	POLYMER FEED PUMP NO. 13 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	6	7				
MS400PP013A	POLYMER FEED PUMP NO. 13 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	6	8				
UA400PP013	POLYMER FEED PUMP NO. 13 FAULT STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	6	9				
FSL400TGB003B	GBT NO. 3 POLYMER POST DILUTION LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	6	10				
HS400GWS002AA	WASTE SLUDGE GRINDER NO. 2 INLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	8	6	11				
HS400GWS002AB	WASTE SLUDGE GRINDER NO. 2 INLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	8	6	12				
ZSO400GW5002	WASTE SLUDGE GRINDER NO. 2 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	8	6	13				
ZSC400GW5002	WASTE SLUDGE GRINDER NO. 2 INLET VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	8	6	14				
HS400GWS007A	WASTE SLUDGE GRINDER NO. 2 OUTLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	1	8	6	15				
HS400GWS007B	WASTE SLUDGE GRINDER NO. 2 OUTLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	1	8	6	16				
ZSO400GW5007	WASTE SLUDGE GRINDER NO. 2 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	8	7	1				
ZSC400GW5007	WASTE SLUDGE GRINDER NO. 2 OUTLET VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	1	8	7	2				
FSL400TFP004	THICKENING FEED PUMP NO. 4 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	1	8	7	3				
ZSO400TFP004	THICKENING FEED PUMP NO. 4 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	1	8	7	4				
HS400TFP004E	THICKENING FEED PUMP NO. 4 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	7	5				
HS400TFP004F	THICKENING FEED PUMP NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	7	6				
MS400TFP004A	THICKENING FEED PUMP NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	7	7				
UA400TFP004	THICKENING FEED PUMP NO. 4 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	7	8				
UI400TGB004	GBT NO. 4 READY STATUS	DI	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	1	8	7	9				
HS400TGB004E	GBT NO. 4 L-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	7	10				
HS400TGB004AF	GBT NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	7	11				
HS400TGB004BF	GBT NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	7	12				
MS400TGB004A	GBT NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	7	13				
UA400TGB004	GBT NO. 4 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	7	14				
UA400PP014	POLYMER FEED PUMP NO. 14 FAULT STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	1	8	7	15				
MS400PP014A	POLYMER FEED PUMP NO. 14 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	7	16				
MS400ACIO01	DEWATERING/LIME AIR COMPRESSOR NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	8	1	1(+)/A1	1(-)/B1	N/A	N/A
CALA400ACIO01	DEWATERING/LIME AIR COMPRESSOR NO. 1 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	8	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400ACIO02	DEWATERING/LIME AIR COMPRESSOR NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	8	3	3(+)/A3	3(-)/B3	N/A	N/A
CALA400ACIO02	DEWATERING/LIME AIR COMPRESSOR NO. 2 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	8	4	4(+)/A4	4(-)/B4	N/A	N/A
MS400ACIO03	DEWATERING/LIME AIR COMPRESSOR NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	8	5	5(+)/A5	5(-)/B5	N/A	N/A
CALA400ACIO03	DEWATERING/LIME AIR COMPRESSOR NO. 3 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	8	6	6(+)/A6	6(-)/B6	N/A	N/A
MS400DIA001	DEWATERING/LIME AIR DRYER RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	1	8	8	7	7(+)/A7	7(-)/B7	N/A	N/A
HS400TGB004AA	GBT NO. 4 FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	1	8	8	8				
HS400TGB004BA	GBT NO. 4 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	1	8	8	9				
HS400TGB004AE	GBT NO. 4 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	8	10				
HS400TGB004AS	GBT NO. 4 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP4	PUMP5	N/A	N/A	N/A	DPU 32-400	1	8	8	11				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HS400TGB004BS	GBT NO. 4 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP14	PUMP15	N/A	N/A	N/A	DPU 32-400	1	8	8	12				
PSL400PFP014	POLYMER FEED PUMP NO. 14 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	8	13				
PSH400PFP014	POLYMER FEED PUMP NO. 14 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	8	14				
HS400PFP014E	POLYMER FEED PUMP NO. 14 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	1	8	8	15				
HS400PFP014F	POLYMER FEED PUMP NO. 14 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	1	8	8	16				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	1	1	1				
HS400HSC001F	CENTRIFUGE NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	2	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400HSC001A	CENTRIFUGE NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	1	3	3(+)/A3	3(-)/B3	N/A	N/A
MS400HSC001B	CENTRIFUGE NO. 1 SHUTDOWN STATUS	DI	SHUTDN	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	1	4	4(+)/A4	4(-)/B4	N/A	N/A
XS400HSC001A	CENTRIFUGE NO. 1-READY FOR SLUDGE STATUS	DI	READY	NREADY	N/A	N/A	N/A	DPU 32-400	2	1	1	5	5(+)/A5	5(-)/B5	N/A	N/A
ZSC400GSD011	CENTRIFUGE NO. 1 GATE NO. 1 TO BELT NO. 1 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	1	6	6(+)/A6	6(-)/B6	N/A	N/A
ZSC400GSD012	CENTRIFUGE NO. 1 GATE NO. 1 TO BELT NO. 2 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	1	7				
ZSO400GSD011	CENTRIFUGE NO. 1 GATE NO. 1-BELT NO. 1 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	1	8	8(+)/A8	8(-)/B8	N/A	N/A
ZSO400GSD012	CENTRIFUGE NO. 1 GATE NO. 1-BELT NO. 2 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	1	9				
XS400HSC001C	CENTRIFUGE NO. 1 LUBE SYSTEM ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	1	10				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	1	1	11				
FSH400HSC001B	CENTRIFUGE NO. 1 POLYMER DILUTION LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	1	1	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400FOC004F	DEWATERING ODOR CONTROL FAN NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	1	13	13(+)/A13	13(-)/B13	N/A	N/A
MS400FOC004A	DEWATERING ODOR CONTROL FAN NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	1	14	14(+)/A14	14(-)/B14	N/A	N/A
FSH400SSH002	SOUTHERN CENTRIFUGE EYEWASH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	1	15	15(+)/A15	15(-)/B15	N/A	N/A
XS400HSC001B	CENTRIFUGE NO. 1 COMMON ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	1	16	16(+)/A16	16(-)/B16	N/A	N/A
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	1	2	1				
HS400HSC003F	CENTRIFUGE NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	2	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400HSC003A	CENTRIFUGE NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	2	3	3(+)/A3	3(-)/B3	N/A	N/A
MS400HSC003B	CENTRIFUGE NO. 3 SHUTDOWN STATUS	DI	SHUTDN	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	2	4	4(+)/A4	4(-)/B4	N/A	N/A
XS400HSC003A	CENTRIFUGE NO. 3-READY FOR SLUDGE STATUS	DI	READY	NREADY	N/A	N/A	N/A	DPU 32-400	2	1	2	5	5(+)/A5	5(-)/B5	N/A	N/A
ZSC400GSD031	CENTRIFUGE NO. 3 GATE NO. 1 TO BELT NO. 1 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	2	6	6(+)/A6	6(-)/B6	N/A	N/A
ZSC400GSD032	CENTRIFUGE NO. 3 GATE NO. 1 TO BELT NO. 2 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	2	7				
ZSO400GSD031	CENTRIFUGE NO. 3 GATE NO. 1-BELT NO. 1 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	2	8	8(+)/A8	8(-)/B8	N/A	N/A
ZSO400GSD032	CENTRIFUGE NO. 3 GATE NO. 1-BELT NO. 2 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	2	9				
XS400HSC003C	CENTRIFUGE NO. 3 LUBE SYSTEM ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	2	10				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	1	2	11				
FSH400HSC003B	CENTRIFUGE NO. 3 POLYMER DILUTION LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	1	2	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400FOC005F	DEWATERING ODOR CONTROL FAN NO. 5 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	2	13	13(+)/A13	13(-)/B13	N/A	N/A
MS400FOC005A	DEWATERING ODOR CONTROL FAN NO. 5 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	2	14	14(+)/A14	14(-)/B14	N/A	N/A
XS400HSC003B	CENTRIFUGE NO. 3 COMMON ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	2	15	15(+)/A15	15(-)/B15	N/A	N/A
LSHH400SPP001	SUMP OUTSIDE EXISTING MIX TANKS HI HI LEVEL	DI	HI HI	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	2	16	13(+)/A13	13(-)/B13	N/A	N/A
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	1	3	1				
HS400HSC005F	CENTRIFUGE NO. 5 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	3	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400HSC005A	CENTRIFUGE NO. 5 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	3	3	3(+)/A3	3(-)/B3	N/A	N/A
MS400HSC005B	CENTRIFUGE NO. 5 SHUTDOWN STATUS	DI	SHUTDN	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	3	4	4(+)/A4	4(-)/B4	N/A	N/A
XS400HSC005A	CENTRIFUGE NO. 5-READY FOR SLUDGE STATUS	DI	READY	NREADY	N/A	N/A	N/A	DPU 32-400	2	1	3	5	5(+)/A5	5(-)/B5	N/A	N/A
ZSC400GSD051	CENTRIFUGE NO. 5 GATE NO. 1 TO BELT NO. 1 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	3	6	6(+)/A6	6(-)/B6	N/A	N/A
ZSC400GSD052	CENTRIFUGE NO. 5 GATE NO. 1 TO BELT NO. 2 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	3	7				
ZSO400GSD051	CENTRIFUGE NO. 5 GATE NO. 1-BELT NO. 1 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	3	8	8(+)/A8	8(-)/B8	N/A	N/A
ZSO400GSD052	CENTRIFUGE NO. 5 GATE NO. 1-BELT NO. 2 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	3	9				
XS400HSC005C	CENTRIFUGE NO. 5 LUBE SYSTEM ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	3	10				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	1	3	11				
FSH400HSC005B	CENTRIFUGE NO. 5 POLYMER DILUTION LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	1	3	12	12(+)/A12	12(-)/B12	N/A	N/A
XS400HSC005B	CENTRIFUGE NO. 5 COMMON ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	3	13	13(+)/A13	13(-)/B13	N/A	N/A
LSH400TPS021	POLYMER STORAGE CONTAINMENT LEVEL ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	3	14	14(+)/A14	14(-)/B14	N/A	N/A
HS400PEW002E	DEWATERING EFW PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	3	15	15(+)/A15	15(-)/B15	N/A	N/A
HS400PEW002F	DEWATERING EFW PUMP NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	3	16	16(+)/A16	16(-)/B16	N/A	N/A
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	1	4	1				
HS400HSC007F	CENTRIFUGE NO. 7 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	4	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400HSC007A	CENTRIFUGE NO. 7 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	4	3	3(+)/A3	3(-)/B3	N/A	N/A
MS400HSC007B	CENTRIFUGE NO. 7 SHUTDOWN STATUS	DI	SHUTDN	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	4	4	4(+)/A4	4(-)/B4	N/A	N/A
XS400HSC007A	CENTRIFUGE NO. 7-READY FOR SLUDGE STATUS	DI	READY	NREADY	N/A	N/A	N/A	DPU 32-400	2	1	4	5	5(+)/A5	5(-)/B5	N/A	N/A
ZSC400GSD071	CENTRIFUGE NO. 7 GATE NO. 1 TO BELT NO. 1 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	4	6	6(+)/A6	6(-)/B6	N/A	N/A
ZSC400GSD072	CENTRIFUGE NO. 7 GATE NO. 1 TO BELT NO. 2 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	4	7				
ZSO400GSD071	CENTRIFUGE NO. 7 GATE NO. 1-BELT NO. 1 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	4	8	8(+)/A8	8(-)/B8	N/A	N/A
ZSO400GSD072	CENTRIFUGE NO. 7 GATE NO. 1-BELT NO. 2 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	1	4	9				
XS400HSC007C	CENTRIFUGE NO. 7 LUBE SYSTEM ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	4	10				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	1	4	11				
FSH400HSC007B	CENTRIFUGE NO. 7 POLYMER DILUTION LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	1	4	12	12(+)/A12	12(-)/B12	N/A	N/A
XS400HSC007B	CENTRIFUGE NO. 7 COMMON ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	4	13	13(+)/A13	13(-)/B13	N/A	N/A
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	1	4	14				
MS400PEW002A	DEWATERING EFW PUMP NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	4	15	15(+)/A15	15(-)/B15	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
XA400PEW002	DEWATERING EFW PUMP NO. 2 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	4	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PP021E	POLYMER FEED PUMP NO. 21 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	5	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PP021F	POLYMER FEED PUMP NO. 21 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	5	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PP021A	POLYMER FEED PUMP NO. 21 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	5	3	3(+)/A3	3(-)/B3	N/A	N/A
XA400PP021	POLYMER FEED PUMP NO. 21 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	5	4	4(+)/A4	4(-)/B4	N/A	N/A
PSH400PP021	POLYMER FEED PUMP NO. 21 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	5	5	5(+)/A5	5(-)/B5	N/A	N/A
PSL400PP021	POLYMER FEED PUMP NO. 21 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	5	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400DFP001E	DEWATERING FEED PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	5	7	7(+)/A7	7(-)/B7	N/A	N/A
HS400DFP001F	DEWATERING FEED PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	5	8	8(+)/A8	8(-)/B8	N/A	N/A
MS400DFP001A	DEWATERING FEED PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	5	9	9(+)/A9	9(-)/B9	N/A	N/A
XA400DFP001	DEWATERING FEED PUMP NO. 1 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	5	10	10(+)/A10	10(-)/B10	N/A	N/A
PSH400DFP001	DEWATERING FEED PUMP NO. 1 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	5	11	11(+)/A11	11(-)/B11	N/A	N/A
PSL400DFP001	DEWATERING FEED PUMP NO. 1 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	5	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400GDF001E	DEWATERING FEED GRINDER NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	5	13	13(+)/A13	13(-)/B13	N/A	N/A
HS400GDF001F	DEWATERING FEED GRINDER NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	5	14	14(+)/A14	14(-)/B14	N/A	N/A
MS400GDF001A	DEWATERING FEED GRINDER NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	5	15	15(+)/A15	15(-)/B15	N/A	N/A
XA400GDF001	DEWATERING FEED GRINDER NO. 1 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	5	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PP023E	POLYMER FEED PUMP NO. 23 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	6	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PP023F	POLYMER FEED PUMP NO. 23 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	6	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PP023A	POLYMER FEED PUMP NO. 23 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	6	3	3(+)/A3	3(-)/B3	N/A	N/A
XA400PP023	POLYMER FEED PUMP NO. 23 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	6	4	4(+)/A4	4(-)/B4	N/A	N/A
PSH400PP023	POLYMER FEED PUMP NO. 23 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	6	5	5(+)/A5	5(-)/B5	N/A	N/A
PSL400PP023	POLYMER FEED PUMP NO. 23 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	6	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400DFP003E	DEWATERING FEED PUMP NO. 3 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	6	7	7(+)/A7	7(-)/B7	N/A	N/A
HS400DFP003F	DEWATERING FEED PUMP NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	6	8	8(+)/A8	8(-)/B8	N/A	N/A
MS400DFP003A	DEWATERING FEED PUMP NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	6	9	9(+)/A9	9(-)/B9	N/A	N/A
PSH400DFP003	DEWATERING FEED PUMP NO. 3 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	6	10	10(+)/A10	10(-)/B10	N/A	N/A
PSL400DFP003	DEWATERING FEED PUMP NO. 3 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	6	11	11(+)/A11	11(-)/B11	N/A	N/A
XA400DFP003	DEWATERING FEED PUMP NO. 3 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	6	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400GDF003E	DEWATERING FEED GRINDER NO. 3 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	6	13	13(+)/A13	13(-)/B13	N/A	N/A
HS400GDF003F	DEWATERING FEED GRINDER NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	6	14	14(+)/A14	14(-)/B14	N/A	N/A
MS400GDF003A	DEWATERING FEED GRINDER NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	6	15	15(+)/A15	15(-)/B15	N/A	N/A
XA400GDF003	DEWATERING FEED GRINDER NO. 3 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	6	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PP025E	POLYMER FEED PUMP NO. 25 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	7	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PP025F	POLYMER FEED PUMP NO. 25 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	7	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PP025A	POLYMER FEED PUMP NO. 25 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	7	3	3(+)/A3	3(-)/B3	N/A	N/A
XA400PP025	POLYMER FEED PUMP NO. 25 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	7	4	4(+)/A4	4(-)/B4	N/A	N/A
PSH400PP025	POLYMER FEED PUMP NO. 25 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	7	5	5(+)/A5	5(-)/B5	N/A	N/A
PSL400PP025	POLYMER FEED PUMP NO. 25 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	7	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400DFP005E	DEWATERING FEED PUMP NO. 5 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	7	7	7(+)/A7	7(-)/B7	N/A	N/A
HS400DFP005F	DEWATERING FEED PUMP NO. 5 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	7	8	8(+)/A8	8(-)/B8	N/A	N/A
MS400DFP005A	DEWATERING FEED PUMP NO. 5 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	7	9	9(+)/A9	9(-)/B9	N/A	N/A
PSH400DFP005	DEWATERING FEED PUMP NO. 5 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	7	10	10(+)/A10	10(-)/B10	N/A	N/A
PSL400DFP005	DEWATERING FEED PUMP NO. 5 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	7	11	11(+)/A11	11(-)/B11	N/A	N/A
XA400DFP005	DEWATERING FEED PUMP NO. 5 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	7	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400GDF005E	DEWATERING FEED GRINDER NO. 5 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	7	13	13(+)/A13	13(-)/B13	N/A	N/A
HS400GDF005F	DEWATERING FEED GRINDER NO. 5 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	7	14	14(+)/A14	14(-)/B14	N/A	N/A
MS400GDF005A	DEWATERING FEED GRINDER NO. 5 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	7	15	15(+)/A15	15(-)/B15	N/A	N/A
XA400GDF005	DEWATERING FEED GRINDER NO. 5 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	7	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PP027E	POLYMER FEED PUMP NO. 27 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	8	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PP027F	POLYMER FEED PUMP NO. 27 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	8	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PP027A	POLYMER FEED PUMP NO. 27 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	8	3	3(+)/A3	3(-)/B3	N/A	N/A
XA400PP027	POLYMER FEED PUMP NO. 27 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	8	4	4(+)/A4	4(-)/B4	N/A	N/A
PSH400PP027	POLYMER FEED PUMP NO. 27 DISHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	8	5	5(+)/A5	5(-)/B5	N/A	N/A
PSL400PP027	POLYMER FEED PUMP NO. 27 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	8	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400DFP007E	DEWATERING FEED PUMP NO. 7 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	8	7	7(+)/A7	7(-)/B7	N/A	N/A
HS400DFP007F	DEWATERING FEED PUMP NO. 7 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	8	8	8(+)/A8	8(-)/B8	N/A	N/A
MS400DFP007A	DEWATERING FEED PUMP NO. 7 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	8	9	9(+)/A9	9(-)/B9	N/A	N/A
PSH400DFP007	DEWATERING FEED PUMP NO. 7 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	8	10	10(+)/A10	10(-)/B10	N/A	N/A
PSL400DFP007	DEWATERING FEED PUMP NO. 7 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	8	11	11(+)/A11	11(-)/B11	N/A	N/A
XA400DFP007	DEWATERING FEED PUMP NO. 7 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	8	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400GDF007E	DEWATERING FEED GRINDER NO. 7 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	1	8	13	13(+)/A13	13(-)/B13	N/A	N/A
HS400GDF007F	DEWATERING FEED GRINDER NO. 7 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	8	14	14(+)/A14	14(-)/B14	N/A	N/A
MS400GDF007A	DEWATERING FEED GRINDER NO. 7 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	1	8	15	15(+)/A15	15(-)/B15	N/A	N/A
XA400GDF007	DEWATERING FEED GRINDER NO. 7 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	1	8	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400HSC001AA	CENTRIFUGE NO. 1 DEWATERING FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	1	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400HSC001BA	CENTRIFUGE NO. 1 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	1	2	2(+)/A2	2(-)/B2	N/A	N/A
HS400HSC001AE	CENTRIFUGE NO. 1 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	1	3	3(+)/A3	3(-)/B3	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HS400HSC001AS	CENTRIFUGE NO. 1 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP1	PUMP2	N/A	N/A	N/A	DPU 32-400	2	2	1	4	4(+)/A4	4(-)/B4	N/A	N/A
HS400HSC001BS	CENTRIFUGE NO. 1 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP21	PUMP22	N/A	N/A	N/A	DPU 32-400	2	2	1	5	5(+)/A5	5(-)/B5	N/A	N/A
HS400SBC001E	SLUDGE BELT NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	1	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400SBC001F	SLUDGE BELT NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	1	7	7(+)/A7	7(-)/B7	N/A	N/A
MS400SBC001AA	SLUDGE BELT NO. 1 - INCINERATOR	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	2	1	8	8(+)/A8	8(-)/B8	N/A	N/A
MS400SBC001BA	SLUDGE BELT NO. 1 - LIME BUILDING	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	2	1	9	9(+)/A9	9(-)/B9	N/A	N/A
ZS400SBC001	SLUDGE BELT NO. 1 MISALIGNMENT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	1	10	10(+)/A10	10(-)/B10	N/A	N/A
SSL400SBC001	SLUDGE BELT NO. 1 SPEED STATUS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	1	11	11(+)/A11	11(-)/B11	N/A	N/A
HS400SPL011E	SLUDGE BELT NO. 1 PLOW NO. 11 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	1	12	12(+)/A12	12(-)/B12	N/A	N/A
ZSA400SPL011	SLUDGE BELT NO. 1 PLOW NO. 11-UP	DI	BELT4	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	2	1	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSB400SPL011	SLUDGE BELT NO. 1 PLOW NO. 11-DOWN	DI	BELT3	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	2	1	14	14(+)/A14	14(-)/B14	N/A	N/A
HV400SBC001AE	SLUDGE BELT NO. 1 EFW VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	1	15	15(+)/A15	15(-)/B15	N/A	N/A
HV400SBC001BE	SLUDGE BELT NO. 1- WEST EFW VLV L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	1	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400HSC002AA	CENTRIFUGE NO. 2 DEWATERING FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	2	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400HSC002BA	CENTRIFUGE NO. 2 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	2	2	2(+)/A2	2(-)/B2	N/A	N/A
HS400HSC002AEX	CENTRIFUGE NO. 2 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	2	3	3(+)/A3	3(-)/B3	N/A	N/A
HS400HSC002AS	CENTRIFUGE NO. 2 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP2	PUMP3	N/A	N/A	N/A	DPU 32-400	2	2	2	4	4(+)/A4	4(-)/B4	N/A	N/A
HS400HSC002BS	CENTRIFUGE NO. 2 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP22	PUMP23	N/A	N/A	N/A	DPU 32-400	2	2	2	5	5(+)/A5	5(-)/B5	N/A	N/A
HS400SBC003E	SLUDGE BELT NO. 3 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	2	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400SBC003F	SLUDGE BELT NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	2	7	7(+)/A7	7(-)/B7	N/A	N/A
MS400SBC003A	SLUDGE BELT NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	2	2	8	8(+)/A8	8(-)/B8	N/A	N/A
SSL400SBC003	SLUDGE BELT NO. 3 SPEED STATUS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	2	9	9(+)/A9	9(-)/B9	N/A	N/A
ZS400SBC003	SLUDGE BELT NO. 3 MISALIGNMENT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	2	10	10(+)/A10	10(-)/B10	N/A	N/A
ZSC400PMT012B	POLYMER MIXING TANK NO. 12 OUTLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	2	2	11				
FSL400TGB004B	GBT NO. 4 POLYMER POST DILUTION LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	2	12				
LSHH400SPP00S	SUMP HI HI LEVEL AT NEW MIX TANKS	DI	HI HI	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	2	13	13(+)/A13	13(-)/B13	N/A	N/A
LSHH400SPP02O	SUMP HI HI LEVEL AT EXISTING MIX TANKS	DI	HI HI	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	2	14	13(+)/A13	13(-)/B13	N/A	N/A
HS400PMT012B	POLYMER MIXING TANK NO. 12 OUTET VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	2	15				
ZSO400PMT012B	POLYMER MIXING TANK NO. 12 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	2	2	16				
HS400HSC003AA	CENTRIFUGE NO. 3 DEWATERING FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	3	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400HSC003BA	CENTRIFUGE NO. 3 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	3	2	2(+)/A2	2(-)/B2	N/A	N/A
HS400HSC003AE	CENTRIFUGE NO. 3 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	3	3	3(+)/A3	3(-)/B3	N/A	N/A
HS400HSC003AS	CENTRIFUGE NO. 3 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP3	PUMP4	N/A	N/A	N/A	DPU 32-400	2	2	3	4	4(+)/A4	4(-)/B4	N/A	N/A
HS400HSC003BS	CENTRIFUGE NO. 3 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP23	PUMP24	N/A	N/A	N/A	DPU 32-400	2	2	3	5	5(+)/A5	5(-)/B5	N/A	N/A
HV400SBC003E	SLUDGE BELT NO. 3 EFW VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	3	6	6(+)/A6	6(-)/B6	N/A	N/A
XA400GWS001	WASTE SLUDGE SLUDGE GRINDER NO. 1 FAULT STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	3	7				
PSL400PEW002	EFW LOW PRESSURE SWITCH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	3	8	8(+)/A8	8(-)/B8	N/A	N/A
ZS400USS015A	DW-USS0015A BUS A MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	3	9	9(+)/A9	9(-)/B9	N/A	N/A
ZS400USS015B	DW-USS0015B BUS B MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	3	10	10(+)/A10	10(-)/B10	N/A	N/A
ZS400USS015C	DW-USS015A/B BUS A TO B TIE BK	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	3	11	11(+)/A11	11(-)/B11	N/A	N/A
ZS400MCC046A	DW-MCC046A BUS A MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	3	12	12(+)/A12	12(-)/B12	N/A	N/A
ZS400MCC046B	DW-MCC046B BUS B MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	3	13	13(+)/A13	13(-)/B13	N/A	N/A
MS400FOC003A	DEWATERING ODOR CONTROL FAN NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	2	3	14	14(+)/A14	14(-)/B14	N/A	N/A
FSL400FOC003	DEWAT ODOR CTRL FAN NO. 3 LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	3	15	15(+)/A15	15(-)/B15	N/A	N/A
HS400FOC003F	DEWAT ODOR CONTROL FAN NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	3	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400HSC004AA	CENTRIFUGE NO. 4 DEWATERING FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	4	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400HSC004BA	CENTRIFUGE NO. 4 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	4	2	2(+)/A2	2(-)/B2	N/A	N/A
HS400HSC004AE	CENTRIFUGE NO. 4 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	4	3	3(+)/A3	3(-)/B3	N/A	N/A
HS400HSC004AS	CENTRIFUGE NO. 4 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP4	PUMP5	N/A	N/A	N/A	DPU 32-400	2	2	4	4	4(+)/A4	4(-)/B4	N/A	N/A
HS400HSC004BS	CENTRIFUGE NO. 4 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP24	PUMP25	N/A	N/A	N/A	DPU 32-400	2	2	4	5	5(+)/A5	5(-)/B5	N/A	N/A
HS400GPS001E	PRIMARY SLUDGE GRINDER NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	4	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400GPS001F	PRIMARY SLUDGE GRINDER NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	4	7	7(+)/A7	7(-)/B7	N/A	N/A
MS400GPS001A	PRIMARY SLUDGE GRINDER NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	2	4	8	8(+)/A8	8(-)/B8	N/A	N/A
XA400GPS001	PRIMARY SLUDGE GRINDER NO. 1 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	4	9	9(+)/A9	9(-)/B9	N/A	N/A
ZS400MCC046C	DW-MCC046A/B BUS A TO B TIE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	4	10	10(+)/A10	10(-)/B10	N/A	N/A
ZS400MCC044A	DW-MCC044A BUS A MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	4	11	11(+)/A11	11(-)/B11	N/A	N/A
ZS400MCC044B	DW-MCC044B BUS B MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	4	12	12(+)/A12	12(-)/B12	N/A	N/A
ZS400MCC044C	DW-MCC044A/B BUS A TO B TIE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	4	13	13(+)/A13	13(-)/B13	N/A	N/A
ZS400USS015D	DW-USS015A FEED TO MCC044A BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	4	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS400USS015E	DW-USS015A FEED TO MCC045A BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	4	15	15(+)/A15	15(-)/B15	N/A	N/A
ZS400USS015F	DW-USS015A FEED TO FILTER BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	4	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400HSC005AA	CENTRIFUGE NO. 5 DEWATERING FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	5	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400HSC005BA	CENTRIFUGE NO. 5 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	5	2	2(+)/A2	2(-)/B2	N/A	N/A
HS400HSC005AE	CENTRIFUGE NO. 5 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	5	3	3(+)/A3	3(-)/B3	N/A	N/A
HS400HSC005AS	CENTRIFUGE NO. 5 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP5	PUMP6	N/A	N/A	N/A	DPU 32-400	2	2	5	4	4(+)/A4	4(-)/B4	N/A	N/A
HS400HSC005BS	CENTRIFUGE NO. 5 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP25	PUMP26	N/A	N/A	N/A	DPU 32-400	2	2	5	5	5(+)/A5	5(-)/B5	N/A	N/A
MS400GWS001A	WASTE SLUDGE GRINDER NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	2	5	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400GWS001E	WASTE SLUDGE GRINDER NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	5	7	7(+)/A7	7(-)/B7	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HS400GWS001F	WASTE SLUDGE GRINDER NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	5	8	8(+)/A8	8(-)/B8	N/A	N/A
HS400GPS002E	PRIMARY SLUDGE GRINDER NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	5	9	9(+)/A9	9(-)/B9	N/A	N/A
HS400GPS002F	PRIMARY SLUDGE GRINDER NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	5	10	10(+)/A10	10(-)/B10	N/A	N/A
MS400GPS002A	PRIMARY SLUDGE GRINDER NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	2	5	11	11(+)/A11	11(-)/B11	N/A	N/A
XA400GPS002	PRIMARY SLUDGE GRINDER NO. 2 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	5	12	12(+)/A12	12(-)/B12	N/A	N/A
ZS400USS015N	DW-USS015B FEED TO MCC045B BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	5	13	13(+)/A13	13(-)/B13	N/A	N/A
ZS400MCC045A	DW-MCC045A BUS A MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	5	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS400MCC045B	DW-MCC045B BUS B MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	5	15	15(+)/A15	15(-)/B15	N/A	N/A
ZS400MCC045C	DW-MCC045A/B BUS A TO B TIE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	5	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400HSC006AA	CENTRIFUGE NO. 6 DEWATERING FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	6	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400HSC006BA	CENTRIFUGE NO. 6 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	6	2	2(+)/A2	2(-)/B2	N/A	N/A
HS400HSC006AE	CENTRIFUGE NO. 6 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	6	3	3(+)/A3	3(-)/B3	N/A	N/A
HS400HSC006AS	CENTRIFUGE NO. 6 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP6	PUMP7	N/A	N/A	N/A	DPU 32-400	2	2	6	4	4(+)/A4	4(-)/B4	N/A	N/A
HS400HSC006BS	CENTRIFUGE NO. 6 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP26	PUMP27	N/A	N/A	N/A	DPU 32-400	2	2	6	5	5(+)/A5	5(-)/B5	N/A	N/A
HS400HSC008AA	CENTRIFUGE NO. 8 DEWATERING FEED PUMP S/S-PANEL (FUTURE)	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	6	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400HSC008BA	CENTRIFUGE NO. 8 POLYMER PUMP S/S-PANEL (FUTURE)	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	6	7	7(+)/A7	7(-)/B7	N/A	N/A
HS400HSC008AE	CENTRIFUGE NO. 8 DCS-LOCAL FEED CONTROL STATUS-PANEL (FUTURE)	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	6	8	8(+)/A8	8(-)/B8	N/A	N/A
HS400HSC008AS	CENTRIFUGE NO. 8 SLUDGE PUMP SELECT STATUS-PANEL (FUTURE)	DI	PUMP8	PUMP9	N/A	N/A	N/A	DPU 32-400	2	2	6	9	9(+)/A9	9(-)/B9	N/A	N/A
HS400HSC008BS	CENTRIFUGE NO. 8 POLYMER PUMP SELECT STATUS-PANEL (FUTURE)	DI	PUMP28	PUMP29	N/A	N/A	N/A	DPU 32-400	2	2	6	10	10(+)/A10	10(-)/B10	N/A	N/A
HS400FOC006F	DEWATERING ODOR CONTROL FAN NO. 6 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	6	11	11(+)/A11	11(-)/B11	N/A	N/A
MS400FOC006A	DEWATERING ODOR CONTROL FAN NO. 6 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	2	6	12	12(+)/A12	12(-)/B12	N/A	N/A
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	2	6	13				
ZS400USS015G	DW-USS015A FEED TO CENTRIFUGE NO. 1 BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	6	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS400USS015H	DW-USS015A FEED TO CENTRIFUGE NO. 2 BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	6	15	15(+)/A15	15(-)/B15	N/A	N/A
ZS400USS015J	DW-USS015B FEED TO FILTER BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	6	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400HSC007AA	CENTRIFUGE NO. 7 DEWATERING FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	7	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400HSC007BA	CENTRIFUGE NO. 7 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	2	7	2	2(+)/A2	2(-)/B2	N/A	N/A
HS400HSC007AE	CENTRIFUGE NO. 7 DCS-LOCAL CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	7	3	3(+)/A3	3(-)/B3	N/A	N/A
HS400HSC007AS	CENTRIFUGE NO. 7 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP7	PUMP8	N/A	N/A	N/A	DPU 32-400	2	2	7	4	4(+)/A4	4(-)/B4	N/A	N/A
HS400HSC007BS	CENTRIFUGE NO. 7 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP27	PUMP28	N/A	N/A	N/A	DPU 32-400	2	2	7	5	5(+)/A5	5(-)/B5	N/A	N/A
FSH400SSH003	EASTERN CENTRIFUGE EYEWASH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	7	6	6(+)/A6	6(-)/B6	N/A	N/A
FSH400SSH004	DEWATERING BELT NO. 2 EYEWASH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	7	7	7(+)/A7	7(-)/B7	N/A	N/A
FSH400SSH005	DEWATERING BELT NO. 5 EYEWASH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	7	8	8(+)/A8	8(-)/B8	N/A	N/A
FSH400SSH006	POLYMER MIX TANKS NO. 11/12 EYEWASH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	7	9	9(+)/A9	9(-)/B9	N/A	N/A
FSH400SSH007	DEWATERING SLUDGE PUMP EYEWASH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	7	10	10(+)/A10	10(-)/B10	N/A	N/A
FSH400SSH008	POLYMER MIX PUMPS NO. 21/22/23 EYEWASH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	7	11	11(+)/A11	11(-)/B11	N/A	N/A
FSH400SSH009	POLYMER MIX TANKS NO. 21/22/23 EYEWASH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	7	12	12(+)/A12	12(-)/B12	N/A	N/A
FSH400SSH011	WEST CENTRIFUGE EYEWASH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	7	13	13(+)/A13	13(-)/B13	N/A	N/A
ZS400USS015K	DW-USS015B FEED TO CENTRIFUGE NO. 3 BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	7	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS400USS015L	DW-USS015B FEED TO CENTRIFUGE NO. 4 BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	7	15	15(+)/A15	15(-)/B15	N/A	N/A
ZS400USS015M	DW-USS015B FEED TO MCC044B BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	2	7	16	16(+)/A16	16(-)/B16	N/A	N/A
UA400AED001	AED DEWATERING CONTROL ROOM	DI	NORMAL	REMOVED	N/A	N/A	N/A	DPU 32-400	2	2	8	1			N/A	N/A
HS400PFP029F	POLYMER FEED PUMP NO. 29 ESTOP STATUS (FUTURE)	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	8	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PFP029A	POLYMER FEED PUMP NO. 29 RUN STATUS (FUTURE)	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	2	8	3	3(+)/A3	3(-)/B3	N/A	N/A
XA400PFP029	POLYMER FEED PUMP NO. 29 DRIVE FAULT (FUTURE)	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	8	4	4(+)/A4	4(-)/B4	N/A	N/A
PSH400PFP029	POLYMER FEED PUMP NO. 29 DISCHARGE HIGH PRESSURE (FUTURE)	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	8	5	5(+)/A5	5(-)/B5	N/A	N/A
PSL400PFP029	POLYMER FEED PUMP NO. 29 SUCTION LOW PRESSURE (FUTURE)	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	8	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400DFP009E	DEWATERING FEED PUMP NO. 9 L-O-R STATUS (FUTURE)	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	8	7	7(+)/A7	7(-)/B7	N/A	N/A
HS400DFP009F	DEWATERING FEED PUMP NO. 9 ESTOP STATUS (FUTURE)	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	8	8	8(+)/A8	8(-)/B8	N/A	N/A
MS400DFP009A	DEWATERING FEED PUMP NO. 9 RUN STATUS (FUTURE)	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	2	8	9	9(+)/A9	9(-)/B9	N/A	N/A
XA400DFP009	DEWATERING FEED PUMP NO. 9 DRIVE FAULT (FUTURE)	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	8	10	10(+)/A10	10(-)/B10	N/A	N/A
PSH400DFP009	DEWATERING FEED PUMP NO. 9 DISCHARGE HIGH PRESSURE (FUTURE)	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	8	11	11(+)/A11	11(-)/B11	N/A	N/A
PSL400DFP009	DEWATERING FEED PUMP NO. 9 SUCTION LOW PRESSURE (FUTURE)	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	8	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400GDF009E	DEWATERING FEED GRINDER NO. 9 L-O-R STATUS (FUTURE)	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	2	8	13	13(+)/A13	13(-)/B13	N/A	N/A
HS400GDF009F	DEWATERING FEED GRINDER NO. 9 ESTOP STATUS (FUTURE)	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	8	14	14(+)/A14	14(-)/B14	N/A	N/A
MS400GDF009A	DEWATERING FEED GRINDER NO. 9 RUN STATUS (FUTURE)	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	2	8	15	15(+)/A15	15(-)/B15	N/A	N/A
XA400GDF009	DEWATERING FEED GRINDER NO. 9 FAULT (FUTURE)	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	2	8	16	16(+)/A16	16(-)/B16	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	1	1				
HS400HSC001X	CENTRIFUGE NO. 1 START PERMISSIVE	DO	ENABL	DISABL	N/A	N/A	N/A	DPU 32-400	2	3	1	2	2(+)/R2	2(-)/R2	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	1	3				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	1	4				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	1	5				
HS400GDF001A	DEWATERING FEED GRINDER NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	1	6	6(+)/R6	6(-)/R6	N/A	N/A
HS400DFP001A	DEWATERING FEED PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	1	7	7(+)/R7	7(-)/R7	N/A	N/A
HS400PFP021A	POLYMER FEED PUMP NO. 21 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	1	8	8(+)/R8	8(-)/R8	N/A	N/A
HV400HSC001B	CENTRIFUGE NO. 1 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	1	9	9(+)/R9	9(-)/R9	N/A	N/A
HS400GWS001A	WASTE SLUDGE GRINDER NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	1	10	10(+)/R10	10(-)/R10	N/A	N/A
HS400GPS001A	PRIMARY SLUDGE GRINDER NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	1	11	11(+)/R11	11(-)/R11	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HS400PEW002A	DEWATERING EFW PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	1	12	12(+)/R12	12(-)/R12	N/A	N/A
HV400GWS001	WASTE SLUDGE GRINDER NO. 1 INLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	1	13				
HS400TGB001A	GBT NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	1	14				
HS400TGB001X	GBT NO. 1 START PERMISSIVE	DO	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	2	3	1	15				
HV400TGB001B	GBT NO. 1 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	1	16				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	2	1				
HS400HSC003X	CENTRIFUGE NO. 3 START PERMISSIVE	DO	ENABL	DISABL	N/A	N/A	N/A	DPU 32-400	2	3	2	2	2(+)/R2	2(-)/R2	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	2	3				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	2	4				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	2	5				
HS400GDF003A	DEWATERING FEED GRINDER NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	2	6	6(+)/R6	6(-)/R6	N/A	N/A
HS400DFP003A	DEWATERING FEED PUMP NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	2	7	7(+)/R7	7(-)/R7	N/A	N/A
HS400PP023A	POLYMER FEED PUMP NO. 23 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	2	8	8(+)/R8	8(-)/R8	N/A	N/A
HV400HSC003B	CENTRIFUGE NO. 3 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	2	9	9(+)/R9	9(-)/R9	N/A	N/A
HS400GPS002A	PRIMARY SLUDGE GRINDER NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	2	10	10(+)/R10	10(-)/R10	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	2	11				
HS400PP011A	POLYMER FEED PUMP NO. 11 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	2	12				
HS400TFP005A	THICKENING FEED PUMP NO. 5 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	2	13				
HS400TGB005A	GBT NO. 5 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	2	14				
HS400TGB005X	GBT NO. 5 START PERMISSIVE	DO	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	2	3	2	15				
HV400GWS011	WAS SLUDGE GRINDER TO THICKENING FEED TANK NO. 1 VALVE CTRL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	2	16				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	3	1				
HS400HSC005X	CENTRIFUGE NO. 5 START PERMISSIVE	DO	ENABL	DISABL	N/A	N/A	N/A	DPU 32-400	2	3	3	2	2(+)/R2	2(-)/R2	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	3	3				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	3	4				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	3	5				
HS400GDF005A	DEWATERING FEED GRINDER NO. 5 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	3	6	6(+)/R6	6(-)/R6	N/A	N/A
HS400DFP005A	DEWATERING FEED PUMP NO. 5 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	3	7	7(+)/R7	7(-)/R7	N/A	N/A
HS400PP025A	POLYMER FEED PUMP NO. 25 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	3	8	8(+)/R8	8(-)/R8	N/A	N/A
HV400HSC005B	CENTRIFUGE NO. 5 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	3	9	9(+)/R9	9(-)/R9	N/A	N/A
HS400SBC001BA	SLUDGE BELT NO. 1-LIME BUILDING S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	3	10	10(+)/R10	10(-)/R10	N/A	N/A
HV400SCB001AA	SLUDGE BELT NO. 1 EFW VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	3	11	11(+)/R11	11(-)/R11	N/A	N/A
HV400SBC001BA	SLUDGE BELT NO. 1- WEST EFW VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	3	12	12(+)/R12	12(-)/R12	N/A	N/A
HS400SPL011A	SLUDGE BELT NO. 1 PLOW NO. 11 CONTROL-UP	DO	BELT4	STOP	N/A	N/A	N/A	DPU 32-400	2	3	3	13	13(+)/R13	13(-)/R13	N/A	N/A
HS400SPL011B	SLUDGE BELT NO. 1 PLOW NO. 11 CONTROL-DOWN	DO	BELT3	STOP	N/A	N/A	N/A	DPU 32-400	2	3	3	14	14(+)/R14	14(-)/R14	N/A	N/A
HS400SBC001AA	SLUDGE BELT NO. 1-INCINERATOR S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	3	15	15(+)/R15	15(-)/R15	N/A	N/A
HS400TFP001A	THICKENING FEED PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	3	16				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	4	1				
HS400HSC007X	CENTRIFUGE NO. 7 START PERMISSIVE	DO	ENABL	DISABL	N/A	N/A	N/A	DPU 32-400	2	3	4	2	2(+)/R2	2(-)/R2	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	4	3				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	4	4				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	4	5				
HS400GDF007A	DEWATERING FEED GRINDER NO. 7 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	4	6	6(+)/R6	6(-)/R6	N/A	N/A
HS400DFP007A	DEWATERING FEED PUMP NO. 7 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	4	7	7(+)/R7	7(-)/R7	N/A	N/A
HS400PP027A	POLYMER FEED PUMP NO. 27 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	4	8	8(+)/R8	8(-)/R8	N/A	N/A
HV400HSC007B	CENTRIFUGE NO. 7 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	4	9	9(+)/R9	9(-)/R9	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	4	10				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	4	11				
HS400PLM011A	POLYMER MIXER NO. 11 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	4	12				
HS400TFP002A	THICKENING FEED PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	4	13				
HV400GPS001	PRIMARY SLUDGE GRINDER NO. 1 INLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	4	14				
HV400GPS006	PRIMARY SLUDGE GRINDER NO. 1 OUTLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	4	15				
HS400GWS006	WASTE SLUDGE GRINDER NO. 1 OUTLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	4	16				
HS400SBC003A	SLUDGE BELT NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	5	1	1(+)/R1	1(-)/R1	N/A	N/A
HV400SCB003A	SLUDGE BELT NO. 3 EFW VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	5	2	2(+)/R2	2(-)/R2	N/A	N/A
HS400PTS002A	THICKENED SLUDGE PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	5	3				
HS400PP012A	POLYMER FEED PUMP NO. 12 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	5	4				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	5	5				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	5	6				
HS400PP029A	POLYMER FEED PUMP NO. 29 S/S CONTROL (FUTURE)	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	5	7	7(+)/R7	7(-)/R7	N/A	N/A
HS400DFP009A	DEWATERING FEED PUMP NO. 9 S/S CONTROL (FUTURE)	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	5	8	8(+)/R8	8(-)/R8	N/A	N/A
HS400GDF009A	DEWATERING FEED GRINDER NO. 9 S/S CONTROL (FUTURE)	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	5	9	9(+)/R9	9(-)/R9	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	5	10				
HV400TGB006B	GBT NO. 6 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	5	11				
HV400GPS002	PRIMARY SLUDGE GRINDER NO. 2 INLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	5	12				
HV400GPS007	PRIMARY SLUDGE GRINDER NO. 2 OUTLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	5	13				
HV400GPS009	PRIMARY SLUDGE GRINDER NO. 2 TO HEADER NO. 1 VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	5	14				
HV400GPS010	PRIMARY SLUDGE GRINDER NO. 2 TO HEADER NO. 2 VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	5	15				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	5	16				
HS400PMX012A	POLYMER BLENDING UNIT NO. 12 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	6	1				
HS400PMX011A	POLYMER BLENDING UNIT NO. 11 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	6	2				
HV400GWS012	WAS SLUDGE GRINDER TO DEWATERING FEED TANKS VALVE CTRL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	6	3				
HV400TGB002B	GBT NO. 2 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	6	4				
HS400TGB002A	GBT NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	6	5				
HS400TGB002X	GBT NO. 2 START PERMISSIVE	DO	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	2	3	6	6				
HV400GPS004	PRIMARY SLUDGE GRINDER NO. 4 INLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	6	7				
HV400GPS008	PRIMARY SLUDGE GRINDER NO. 4 OUTLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	6	8				
HV400GPS003	E. PRIM. SLUDGE PS TO PRIMARY GRINDER NO. 2 VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	6	9				
HS400PTS004A	THICKENED SLUDGE PUMP NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	6	10				
HS400PP014A	POLYMER FEED PUMP NO. 14 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	3	6	11				
HV400PMX021AA	POLYMER MIXING PUMP NO. 21 DISCHARGE VALVE OPEN	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	3	6	12				
HV400PMX021AB	POLYMER MIXING PUMP NO. 21 DISCHARGE VALVE CLOSE	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	3	6	13				
HV400PMX021BA	POLYMER STORAGE TANK NO. 21 RETURN VALVE OPEN	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	3	6	14				
HV400PMX021BB	POLYMER STORAGE TANK NO. 21 RETURN VALVE CLOSE	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	3	6	15				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	6	16				
HV400GPS005	W. PRIM. SLUDGE PS TO PRIMARY GRINDER NO. 2 VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	7	1				
HV400GWS005	WASTE SLUDGE GRINDER INLET HEADER CROSSOVER VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	7	2				
HV400GWS010	WASTE SLUDGE GRINDER DISCH. HEADER CROSSOVER VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	3	7	3				
HV400PMX022AA	POLYMER MIXING PUMP NO. 22 DISCHARGE VALVE OPEN	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	3	7	4				
HV400PMX022AB	POLYMER MIXING PUMP NO. 22 DISCHARGE VALVE CLOSE	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	3	7	5				
HV400PMX022BA	POLYMER STORAGE TANK NO. 22 RETURN VALVE OPEN	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	3	7	6				
HV400PMX022BB	POLYMER STORAGE TANK NO. 22 RETURN VALVE CLOSE	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	3	7	7				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	7	8				
HV400PBS001A	POLYMER STORAGE TANK NO. 13 FILL VALVE OPEN	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	3	7	9				
HV400PBS001B	POLYMER STORAGE TANK NO. 13 FILL VALVE CLOSE	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	3	7	10				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	7	11				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	7	12				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	7	13				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	7	14				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	7	15				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	3	7	16				
HS400GWS003AA	WASTE SLUDGE GRINDER NO. 3 INLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	4	1	1				
HS400GWS003AB	WASTE SLUDGE GRINDER NO. 3 INLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	2	4	1	2				
ZSO400GWS003	WASTE SLUDGE GRINDER NO. 3 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	1	3				
ZSC400GWS003	WASTE SLUDGE GRINDER NO. 3 INLET VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	1	4				
HS400GWS008A	WASTE SLUDGE GRINDER NO. 3 OUTLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	4	1	5				
HS400GWS008B	WASTE SLUDGE GRINDER NO. 3 OUTLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	2	4	1	6				
ZSO400GWS008	WASTE SLUDGE GRINDER NO. 3 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	1	7				
ZSC400GWS008	WASTE SLUDGE GRINDER NO. 3 OUTLET VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	1	8				
	POLYMER MIXING PUMP NO. 21 DISCHARGE VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	4	1	9				
ZSO400PMX021A	POLYMER MIXING PUMP NO. 21 DISCHARGE VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	1	10				
ZSC400PMX021A	POLYMER MIXING PUMP NO. 21 DISCHARGE VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	1	11				
HS400PMX021BA	POLYMER STORAGE TANK NO. 21 RETURN VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	4	1	12				
ZSO400PMX021B	POLYMER STORAGE TANK NO. 21 RETURN VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	1	13				
ZSC400PMX021B	POLYMER STORAGE TANK NO. 21 RETURN VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	1	14				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	4	1	15				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	4	1	16				
HS400GWS004AA	WASTE SLUDGE GRINDER NO. 4 INLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	4	2	1				
HS400GWS004AB	WASTE SLUDGE GRINDER NO. 4 INLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	2	4	2	2				
ZSO400GWS004	WASTE SLUDGE GRINDER NO. 4 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	2	3				
ZSC400GWS004	WASTE SLUDGE GRINDER NO. 4 INLET VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	2	4				
HS400GWS009A	WASTE SLUDGE GRINDER NO. 4 OUTLET VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	4	2	5				
HS400GWS009B	WASTE SLUDGE GRINDER NO. 4 OUTLET VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	2	4	2	6				
ZSO400GWS009	WASTE SLUDGE GRINDER NO. 4 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	2	7				
ZSC400GWS009	WASTE SLUDGE GRINDER NO. 4 OUTLET VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	2	8				
HS400PMX022AA	POLYMER MIXING PUMP NO. 22 DISCHARGE VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	4	2	9				
ZSO400PMX022A	POLYMER MIXING PUMP NO. 22 DISCHARGE VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	2	10				
ZSC400PMX022A	POLYMER MIXING PUMP NO. 22 DISCHARGE VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	2	11				
HS400PMX022BA	POLYMER STORAGE TANK NO. 22 RETURN VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	4	2	12				
ZSO400PMX022B	POLYMER STORAGE TANK NO. 22 RETURN VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	2	13				
ZSC400PMX022B	POLYMER STORAGE TANK NO. 22 RETURN VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	2	14				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	4	2	15				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	4	2	16				
HS400GWS005A	WASTE SLUDGE GRINDER INLET HEADER CROSSOVER VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	4	3	1				
HS400GWS005B	WASTE SLUDGE GRINDER INLET HEADER CROSSOVER VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	2	4	3	2				
ZSO400GWS005	WASTE SLUDGE GRINDER INLET HEADER CROSSOVER VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	3	3				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
ZSC400GWS005	WASTE SLUDGE GRINDER INLET HEADER CROSSOVER VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	3	4				
HS400GWS010A	WASTE SLUDGE GRINDER DISCH. HEADER CROSSOVER VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	4	3	5				
HS400GWS010B	WASTE SLUDGE GRINDER DISCH. HEADER CROSSOVER VALVE O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	2	4	3	6				
ZSO400GWS010	WASTE SLUDGE GRINDER DISCH. HEADER CROSSOVER VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	3	7				
ZSC400GWS010	WASTE SLUDGE GRINDER DISCH. HEADER CROSSOVER VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	3	8				
HS400PBS001	POLYMER STORAGE TANK NO. 13 FILL VALVE O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	4	3	9				
ZSO400PBS001	POLYMER STORAGE TANK NO. 13 FILL VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	3	10				
ZSC400PBS001	POLYMER STORAGE TANK NO. 13 FILL VALVE CLOSE	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	4	3	11				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	4	3	12				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	4	3	13				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	4	3	14				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	4	3	15				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	4	3	16				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	5	1	1				
HS400HSC002F	CENTRIFUGE NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	1	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400HSC002A	CENTRIFUGE NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	1	3	3(+)/A3	3(-)/B3	N/A	N/A
MS400HSC002B	CENTRIFUGE NO. 2 SHUTDOWN STATUS	DI	SHUTDN	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	1	4	4(+)/A4	4(-)/B4	N/A	N/A
XS400HSC002A	CENTRIFUGE NO. 2-READY FOR SLUDGE STATUS	DI	READY	NREADY	N/A	N/A	N/A	DPU 32-400	2	5	1	5	5(+)/A5	5(-)/B5	N/A	N/A
ZSC400GSD021	CENTRIFUGE NO. 2 GATE NO. 1 TO BELT NO. 1 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	1	6	6(+)/A6	6(-)/B6	N/A	N/A
ZSC400GSD022	CENTRIFUGE NO. 2 GATE NO. 1 TO BELT NO. 2 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	1	7				
ZSO400GSD021	CENTRIFUGE NO. 2 GATE NO. 1-BELT NO. 1 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	1	8	8(+)/A8	8(-)/B8	N/A	N/A
ZSO400GSD022	CENTRIFUGE NO. 2 GATE NO. 1-BELT NO. 2 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	1	9				
XS400HSC002C	CENTRIFUGE NO. 2 LUBE SYSTEM ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	1	10				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	5	1	11				
FSH400HSC002B	CENTRIFUGE NO. 2 POLYMER DILUTION LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	5	1	12	12(+)/A12	12(-)/B12	N/A	N/A
XS400HSC002B	CENTRIFUGE NO. 2 COMMON ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	1	13	13(+)/A13	13(-)/B13	N/A	N/A
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	5	1	14				
ZS400USS028A	DW-USS028A BUS A MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	5	1	15	15(+)/A15	15(-)/B15	N/A	N/A
ZS400USS028B	DW-USS028B BUS B MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	5	1	16	16(+)/A16	16(-)/B16	N/A	N/A
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	5	2	1				
HS400HSC004F	CENTRIFUGE NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	2	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400HSC004A	CENTRIFUGE NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	2	3	3(+)/A3	3(-)/B3	N/A	N/A
MS400HSC004B	CENTRIFUGE NO. 4 SHUTDOWN STATUS	DI	SHUTDN	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	2	4	4(+)/A4	4(-)/B4	N/A	N/A
XS400HSC004A	CENTRIFUGE NO. 4-READY FOR SLUDGE STATUS	DI	READY	NREADY	N/A	N/A	N/A	DPU 32-400	2	5	2	5	5(+)/A5	5(-)/B5	N/A	N/A
ZSC400GSD041	CENTRIFUGE NO. 4 GATE NO. 1 TO BELT NO. 1 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	2	6	6(+)/A6	6(-)/B6	N/A	N/A
ZSC400GSD042	CENTRIFUGE NO. 4 GATE NO. 1 TO BELT NO. 2 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	2	7				
ZSO400GSD041	CENTRIFUGE NO. 4 GATE NO. 1-BELT NO. 1 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	2	8	8(+)/A8	8(-)/B8	N/A	N/A
ZSO400GSD042	CENTRIFUGE NO. 4 GATE NO. 1-BELT NO. 2 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	2	9				
XS400HSC004C	CENTRIFUGE NO. 4 LUBE SYSTEM ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	2	10				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	5	2	11				
FSH400HSC004B	CENTRIFUGE NO. 4 POLYMER DILUTION LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	5	2	12	12(+)/A12	12(-)/B12	N/A	N/A
XS400HSC004B	CENTRIFUGE NO. 4 COMMON ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	2	13	13(+)/A13	13(-)/B13	N/A	N/A
MS400LGT001A	DEWATERING ROOF LIGHTING	DI	ON	OFF	N/A	N/A	N/A	DPU 32-400	2	5	2	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS400USS028C	DW-USS028A/B BUS A TO B TIE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	5	2	15	15(+)/A15	15(-)/B15	N/A	N/A
ZS400USS028D	DW-USS028A FEED TO FILTER BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	5	2	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400HSC006F	CENTRIFUGE NO. 6 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	3	1	1(+)/A1	1(-)/B1	N/A	N/A
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	5	3	2				
MS400HSC006B	CENTRIFUGE NO. 6 SHUTDOWN STATUS	DI	SHUTDN	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	3	3	3(+)/A3	3(-)/B3	N/A	N/A
MS400HSC006A	CENTRIFUGE NO. 6 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	3	4	4(+)/A4	4(-)/B4	N/A	N/A
XS400HSC006A	CENTRIFUGE NO. 6-READY FOR SLUDGE STATUS	DI	READY	NREADY	N/A	N/A	N/A	DPU 32-400	2	5	3	5	5(+)/A5	5(-)/B5	N/A	N/A
ZSC400GSD061	CENTRIFUGE NO. 6 GATE NO. 1 TO BELT NO. 1 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	3	6	6(+)/A6	6(-)/B6	N/A	N/A
ZSC400GSD062	CENTRIFUGE NO. 6 GATE NO. 1 TO BELT NO. 2 CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	3	7				
ZSO400GSD061	CENTRIFUGE NO. 6 GATE NO. 1-BELT NO. 1 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	3	8	8(+)/A8	8(-)/B8	N/A	N/A
ZSO400GSD062	CENTRIFUGE NO. 6 GATE NO. 1-BELT NO. 2 OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	5	3	9				
XS400HSC006C	CENTRIFUGE NO. 6 LUBE SYSTEM ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	3	10				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	5	3	11				
FSH400HSC006B	CENTRIFUGE NO. 6 POLYMER DILUTION LOW FLOW	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	5	3	12	12(+)/A12	12(-)/B12	N/A	N/A
XS400HSC006B	CENTRIFUGE NO. 6 COMMON ALARM	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	3	13	13(+)/A13	13(-)/B13	N/A	N/A
ZS400MCC040C	DW-MCC040/041 BUS A TO B TIE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	5	3	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS400USS028E	DW-USS028A FEED TO CENTRIFUGE NO. 5 BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	5	3	15	15(+)/A15	15(-)/B15	N/A	N/A
ZS400USS028F	DW-USS028A FEED TO CENTRIFUGE NO. 6 BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	5	3	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400FOC001F	DEWATERING ODOR CONTROL FAN NO. 1 ESTOP STATUS	DI	ESTOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	4	1	1(+)/A1	1(-)/B1	N/A	N/A
MS400FOC001A	DEWATERING ODOR CONTROL FAN NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	4	2	2(+)/A2	2(-)/B2	N/A	N/A
FSL400FOC001	DEWATERING ODOR CONTROL FAN NO. 1 LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	4	3	3(+)/A3	3(-)/B3	N/A	N/A
HS400FOC002F	DEWATERING ODOR CONTROL FAN NO. 2 ESTOP STATUS	DI	ESTOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	4	4	4(+)/A4	4(-)/B4	N/A	N/A
MS400FOC002A	DEWATERING ODOR CONTROL FAN NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	4	5	5(+)/A5	5(-)/B5	N/A	N/A
FSL400FOC002	DEWATERING ODOR CONTROL FAN NO. 2 LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	4	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400GWS003E	WASTE SLUDGE GRINDER NO. 3 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	4	7	7(+)/A7	7(-)/B7	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
MS400GWS003A	WASTE SLUDGE GRINDER NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	4	8	8(+)/A8	8(-)/B8	N/A	N/A
HS400GWS004E	WASTE SLUDGE GRINDER NO. 4 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	4	9	9(+)/A9	9(-)/B9	N/A	N/A
MS400GWS004A	WASTE SLUDGE GRINDER NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	4	10	10(+)/A10	10(-)/B10	N/A	N/A
ZS400MCC040	DW-MCC040/041 BUS A MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	5	4	11	11(+)/A11	11(-)/B11	N/A	N/A
ZS400MCC041	DW-MCC040/041 BUS B MAIN BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	5	4	12	12(+)/A12	12(-)/B12	N/A	N/A
EAM400UPS003	AOC3-400 SECONDARY UPS STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	2	5	4	13	13(+)/A13	13(-)/B13	N/A	N/A
EN400UPS003	AOC3-400 SECONDARY UPS STATUS	DI	BATTERY	OFF	N/A	N/A	N/A	DPU 32-400	2	5	4	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS400USS028G	DW-USS028A FEED TO MCC046A BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	5	4	15	15(+)/A15	15(-)/B15	N/A	N/A
ZS400USS028H	DW-USS028A FEED TO MCC040/041A BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	5	4	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PPF028E	POLYMER FEED PUMP NO. 28 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	5	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PPF028F	POLYMER FEED PUMP NO. 28 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	5	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PPF028A	POLYMER FEED PUMP NO. 28 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	5	3	3(+)/A3	3(-)/B3	N/A	N/A
XA400PPF028	POLYMER FEED PUMP NO. 28 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	5	4	4(+)/A4	4(-)/B4	N/A	N/A
PSH400PPF028	POLYMER FEED PUMP NO. 28 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	5	5	5(+)/A5	5(-)/B5	N/A	N/A
PSL400PPF028	POLY FEED PUMP NO. 28 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	5	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400DFP008E	DEWATERING FEED PUMP NO. 8 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	5	7	7(+)/A7	7(-)/B7	N/A	N/A
HS400DFP008F	DEWATERING FEED PUMP NO. 8 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	5	8	8(+)/A8	8(-)/B8	N/A	N/A
MS400DFP008A	DEWATERING FEED PUMP NO. 8 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	5	9	9(+)/A9	9(-)/B9	N/A	N/A
XA400DFP008	DEWATERING FEED PUMP NO. 8 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	5	10	10(+)/A10	10(-)/B10	N/A	N/A
PSH400DFP008	DEWATERING FEED PUMP NO. 8 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	5	11	11(+)/A11	11(-)/B11	N/A	N/A
PSL400DFP008	DEWATERING FEED PUMP NO. 8 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	5	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400GDF008E	DEWATERING FEED GRINDER NO. 8 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	5	13	13(+)/A13	13(-)/B13	N/A	N/A
HS400GDF008F	DEWATERING FEED GRINDER NO. 8 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	5	14	14(+)/A14	14(-)/B14	N/A	N/A
MS400GDF008A	DEWATERING FEED GRINDER NO. 8 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	5	15	15(+)/A15	15(-)/B15	N/A	N/A
XA400GDF008	DEWATERING FEED GRINDER NO. 8 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	5	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PPF022E	POLYMER FEED PUMP NO. 22 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	6	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PPF022F	POLYMER FEED PUMP NO. 22 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	6	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PPF022A	POLYMER FEED PUMP NO. 22 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	6	3	3(+)/A3	3(-)/B3	N/A	N/A
XA400PPF022	POLYMER FEED PUMP NO. 22 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	6	4	4(+)/A4	4(-)/B4	N/A	N/A
PSH400PPF022	POLY FEED PUMP NO. 22 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	6	5	5(+)/A5	5(-)/B5	N/A	N/A
PSL400PPF022	POLY FEED PUMP NO. 22 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	6	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400DFP002E	DEWATERING FEED PUMP NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	6	7	7(+)/A7	7(-)/B7	N/A	N/A
HS400DFP002F	DEWATERING FEED PUMP NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	6	8	8(+)/A8	8(-)/B8	N/A	N/A
MS400DFP002A	DEWATERING FEED PUMP NO. 2 RUNNING	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	6	9	9(+)/A9	9(-)/B9	N/A	N/A
PSH400DFP002	DEWATERING FEED PUMP NO. 2 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	6	10	10(+)/A10	10(-)/B10	N/A	N/A
PSL400DFP002	DEWATERING FEED PUMP NO. 2 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	6	11	11(+)/A11	11(-)/B11	N/A	N/A
XA400DFP002	DEWATERING FEED PUMP NO. 2 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	6	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400GDF002E	DEWATERING FEED GRINDER NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	6	13	13(+)/A13	13(-)/B13	N/A	N/A
HS400GDF002F	DEWATERING FEED GRINDER NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	6	14	14(+)/A14	14(-)/B14	N/A	N/A
MS400GDF002A	DEWATERING FEED GRINDER NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	6	15	15(+)/A15	15(-)/B15	N/A	N/A
XA400GDF002	DEWATERING FEED GRINDER NO. 2 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	6	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PPF024E	POLYMER FEED PUMP NO. 24 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	7	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PPF024F	POLYMER FEED PUMP NO. 24 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	7	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PPF024A	POLYMER FEED PUMP NO. 24 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	7	3	3(+)/A3	3(-)/B3	N/A	N/A
XA400PPF024	POLYMER FEED PUMP NO. 24 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	7	4	4(+)/A4	4(-)/B4	N/A	N/A
PSH400PPF024	POLYMER FEED PUMP NO. 24 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	7	5	5(+)/A5	5(-)/B5	N/A	N/A
PSL400PPF024	POLYMER FEED PUMP NO. 24 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	7	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400DFP004E	DEWATERING FEED PUMP NO. 4 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	7	7	7(+)/A7	7(-)/B7	N/A	N/A
HS400DFP004F	DEWATERING FEED PUMP NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	7	8	8(+)/A8	8(-)/B8	N/A	N/A
MS400DFP004A	DEWATERING FEED PUMP NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	7	9	9(+)/A9	9(-)/B9	N/A	N/A
XA400DFP004	DEWATERING FEED PUMP NO. 4 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	7	10	10(+)/A10	10(-)/B10	N/A	N/A
PSH400DFP004	DEWATERING FEED PUMP NO. 4 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	7	11	11(+)/A11	11(-)/B11	N/A	N/A
PSL400DFP004	DEWATERING FEED PUMP NO. 4 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	7	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400GDF004E	DEWATERING FEED GRINDER NO. 4 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	7	13	13(+)/A13	13(-)/B13	N/A	N/A
HS400GDF004F	DEWATERING FEED GRINDER NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	7	14	14(+)/A14	14(-)/B14	N/A	N/A
MS400GDF004A	DEWATERING FEED GRINDER NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	7	15	15(+)/A15	15(-)/B15	N/A	N/A
XA400GDF004	DEWATERING FEED GRINDER NO. 4 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	7	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PPF026E	POLYMER FEED PUMP NO. 26 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	8	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PPF026F	POLYMER FEED PUMP NO. 26 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	8	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PPF026A	POLYMER FEED PUMP NO. 26 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	8	3	3(+)/A3	3(-)/B3	N/A	N/A
XA400PPF026	POLYMER FEED PUMP NO. 26 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	8	4	4(+)/A4	4(-)/B4	N/A	N/A
PSH400PPF026	POLYMER FEED PUMP NO. 26 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	8	5	5(+)/A5	5(-)/B5	N/A	N/A
PSL400PPF026	POLYMER FEED PUMP NO. 26 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	8	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400DFP006E	DEWATERING FEED PUMP NO. 6 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	8	7	7(+)/A7	7(-)/B7	N/A	N/A
HS400DFP006F	DEWATERING FEED PUMP NO. 6 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	8	8	8(+)/A8	8(-)/B8	N/A	N/A
MS400DFP006A	DEWATERING FEED PUMP NO. 6 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	8	9	9(+)/A9	9(-)/B9	N/A	N/A
XA400DFP006	DEWATERING FEED PUMP NO. 6 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	8	10	10(+)/A10	10(-)/B10	N/A	N/A
PSH400DFP006	DEWATERING FEED PUMP NO. 6 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	8	11	11(+)/A11	11(-)/B11	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
PSL400DFP006	DEWATERING FEED PUMP NO. 6 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	8	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400GDF006E	DEWATERING FEED GRINDER NO. 6 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	5	8	13	13(+)/A13	13(-)/B13	N/A	N/A
HS400GDF006F	DEWATERING FEED GRINDER NO. 6 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	8	14	14(+)/A14	14(-)/B14	N/A	N/A
MS400GDF006A	DEWATERING FEED GRINDER NO. 6 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	5	8	15	15(+)/A15	15(-)/B15	N/A	N/A
XA400GDF006	DEWATERING FEED GRINDER NO. 6 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	5	8	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PLM021E	POLYMER MIXER NO. 21 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	1	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PLM021F	POLYMER MIXER NO. 21 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	1	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PLM021A	POLYMER MIXER NO. 21 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	1	3	3(+)/A3	3(-)/B3	N/A	N/A
HS400PMX021E	POLYMER MIX UNIT NO. 21 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	1	4	4(+)/A4	4(-)/B4	N/A	N/A
HS400PMX021F	POLYMER MIX UNITNO. 21 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	1	5	5(+)/A5	5(-)/B5	N/A	N/A
MS400PMX021A	POLYMER MIX UNIT NO. 21 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	1	6	6(+)/A6	6(-)/B6	N/A	N/A
XA400PMX021	POLYMER MIX UNIT NO. 21 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	1	7	7(+)/A7	7(-)/B7	N/A	N/A
ZSC400PMT021A	POLYMER MIX TANK NO. 21 INLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	1	8	8(+)/A8	8(-)/B8	N/A	N/A
ZSO400PMT021A	POLYMER MIX TANK NO. 21 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	1	9	9(+)/A9	9(-)/B9	N/A	N/A
ZSC400PMT021B	POLYMER MIX TANK NO. 21 OUTLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	1	10	10(+)/A10	10(-)/B10	N/A	N/A
ZSO400PMT021B	POLYMER MIX TANK NO. 21 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	1	11	11(+)/A11	11(-)/B11	N/A	N/A
HV400PMT021AE	POLYMER MIX TANK NO. 21 INLET VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	1	12	12(+)/A12	12(-)/B12	N/A	N/A
HV400PMT021BE	POLYMER MIX TANK NO. 21 OUTLET VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	1	13	13(+)/A13	13(-)/B13	N/A	N/A
LSHH400PMT021	POLYMER MIX TANK NO. 21 HI HI LEVEL	DI	HI HI	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	1	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS400USS028J	DW-USS028A SPARE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	6	1	15	15(+)/A15	15(-)/B15	N/A	N/A
ZS400USS028K	DW-USS028B FEED TO MCC046B BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	6	1	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PLM022E	POLYMER MIXER NO. 22 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	2	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PLM022F	POLYMER MIXER NO. 22 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	2	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PLM022A	POLYMER MIXER NO. 22 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	2	3	3(+)/A3	3(-)/B3	N/A	N/A
HS400PMX022E	POLYMER MIX UNIT NO. 22 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	2	4	4(+)/A4	4(-)/B4	N/A	N/A
HS400PMX022F	POLYMER MIX UNIT NO. 22 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	2	5	5(+)/A5	5(-)/B5	N/A	N/A
MS400PMX022A	POLYMER MIX UNIT NO. 22 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	2	6	6(+)/A6	6(-)/B6	N/A	N/A
XA400PMX022	POLYMER MIX UNIT NO. 22 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	2	7	7(+)/A7	7(-)/B7	N/A	N/A
ZSC400PMT022A	POLYMER MIX TANK NO. 22 INLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	2	8	8(+)/A8	8(-)/B8	N/A	N/A
ZSO400PMT022A	POLYMER MIX TANK NO. 22 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	2	9	9(+)/A9	9(-)/B9	N/A	N/A
ZSC400PMT022B	POLYMER MIX TANK NO. 22 OUTLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	2	10	10(+)/A10	10(-)/B10	N/A	N/A
ZSO400PMT022B	POLYMER MIX TANK NO. 22 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	2	11	11(+)/A11	11(-)/B11	N/A	N/A
HV400PMT022AE	POLYMER MIX TANK NO. 22 INLET VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	2	12	12(+)/A12	12(-)/B12	N/A	N/A
HV400PMT022BE	POLYMER MIX TANK NO. 22 OUTLET VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	2	13	13(+)/A13	13(-)/B13	N/A	N/A
LSHH400PMT022	POLYMER MIX TANK NO. 22 HI HI LEVEL	DI	HI HI	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	2	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS400USS028L	DW-USS028B FEED TO MCC040/041B BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	6	2	15	15(+)/A15	15(-)/B15	N/A	N/A
ZS400USS028M	DEWATER USS28B SPARE BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	6	2	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PLM023E	POLYMER MIXER NO. 23 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	3	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PLM023F	POLYMER MIXER NO. 23 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	3	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PLM023A	POLYMER MIXER NO. 23 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	3	3	3(+)/A3	3(-)/B3	N/A	N/A
HS400PMX023E	POLYMER MIX UNIT NO. 23 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	3	4	4(+)/A4	4(-)/B4	N/A	N/A
HS400PMX023F	POLYMER MIX UNIT NO. 23 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	3	5	5(+)/A5	5(-)/B5	N/A	N/A
MS400PMX023A	POLYMER MIX UNIT NO. 23 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	3	6	6(+)/A6	6(-)/B6	N/A	N/A
XA400PMX023	POLYMER MIX UNIT NO. 23 FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	3	7	7(+)/A7	7(-)/B7	N/A	N/A
ZSC400PMT023A	POLYMER MIX TANK NO. 23 INLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	3	8	8(+)/A8	8(-)/B8	N/A	N/A
ZSO400PMT023A	POLYMER MIX TANK NO. 23 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	3	9	9(+)/A9	9(-)/B9	N/A	N/A
ZSC400PMT023B	POLYMER MIX TANK NO. 23 OUTLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	3	10	10(+)/A10	10(-)/B10	N/A	N/A
ZSO400PMT023B	POLYMER MIX TANK NO. 23 OUTLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	3	11	11(+)/A11	11(-)/B11	N/A	N/A
HV400PMT023AE	POLYMER MIX TANK NO. 23 INLET VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	3	12	12(+)/A12	12(-)/B12	N/A	N/A
HV400PMT023BE	POLYMER MIX TANK NO. 23 OUTLET VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	3	13	13(+)/A13	13(-)/B13	N/A	N/A
LSHH400PMT023	POLYMER MIX TANK NO. 23 HI HI LEVEL	DI	HI HI	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	3	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS400USS028N	DW-USS028B FEED TO FILTER BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	6	3	15	15(+)/A15	15(-)/B15	N/A	N/A
ZS400USS028P	DW-USS028B FEED TO CENTRIFUGE NO. 7 BREAKER	DI	CLOSED	OPEN	N/A	N/A	N/A	DPU 32-400	2	6	3	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PMP021E	POLYMER MIX PUMP NO. 21 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	4	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PMP021F	POLYMER MIX PUMP NO. 21 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	4	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PMP021A	POLYMER MIX PUMP NO. 21 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	4	3	3(+)/A3	3(-)/B3	N/A	N/A
PSH400PMP021	POLYMER MIX PUMP NO. 21 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	4	4	4(+)/A4	4(-)/B4	N/A	N/A
PSL400PMP021	POLYMER MIX PUMP NO. 21 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	4	5	5(+)/A5	5(-)/B5	N/A	N/A
HS400DSM001E	DEWATERING TANK NO. 1 MIXER NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	4	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400DSM001F	DEWATERING TANK NO. 1 MIXER NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	4	7	7(+)/A7	7(-)/B7	N/A	N/A
MS400DSM001A	DEWATERING TANK NO. 1 MIXER NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	4	8	8(+)/A8	8(-)/B8	N/A	N/A
TS400DSM001	DEWATERING TANK NO. 1 MIXER NO. 1 HIGH TEMP	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	4	9	9(+)/A9	9(-)/B9	N/A	N/A
HS400SBC002E	SLUDGE BELTNO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	4	10	10(+)/A10	10(-)/B10	N/A	N/A
HS400SBC002F	SLUDGE BELT NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	4	11	11(+)/A11	11(-)/B11	N/A	N/A
MS400SBC002AA	SLUDGE BELT NO. 2 - INCINERATOR	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	4	12	12(+)/A12	12(-)/B12	N/A	N/A
MS400SBC002BA	SLUDGE BELT NO. 2 - LIME BUILDING	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	4	13	13(+)/A13	13(-)/B13	N/A	N/A
SSL400SBC002	SLUDGE BELT NO. 2 SPEED STATUS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	4	14	14(+)/A14	14(-)/B14	N/A	N/A
ZS400SBC002	SLUDGE BELT NO. 2 MISALIGNMENT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	4	15	15(+)/A15	15(-)/B15	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	6	4	16				
HS400PMP022E	POLYMER MIX PUMP NO. 22 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	5	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PMP022F	POLYMER MIX PUMP NO. 22 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	5	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PMP022A	POLYMER MIX PUMP NO. 22 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	5	3	3(+)/A3	3(-)/B3	N/A	N/A
PSH400PMP022	POLYMER MIX PUMP NO. 22 DISCHARGE HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	5	4	4(+)/A4	4(-)/B4	N/A	N/A
PSL400PMP022	POLYMER MIX PUMP NO. 22 SUCTION LOW PRESSURE	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	5	5	5(+)/A5	5(-)/B5	N/A	N/A
FS400DSM001	DEWATERING TANK NO. 1 MIXER NO. 1 LOW OIL	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	6	5	6	9(+)/A9	9(-)/B9	N/A	N/A
HS400GWS011A	WAS SLUDGE GRINDER TO THICKENING TANK NO. 1 O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	6	5	7				
MS400DSM012A	DEWATERING TANK NO. 1 MIXER NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	5	8	8(+)/A8	8(-)/B8	N/A	N/A
HS400GWS011B	WAS SLUDGE GRINDER TO THICKENING TANK NO. 1 O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	2	6	5	9				
LSHH400DFT001	DEWATERING FEED TANK NO. 1 HI HI LEVEL	DI	HI HI	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	5	10	10(+)/A10	10(-)/B10	N/A	N/A
HS400SPL021E	SLUDGE BELT NO. 2 PLOW NO. 21 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	5	11	11(+)/A11	11(-)/B11	N/A	N/A
ZSA400SPL021	SLUDGE BELT NO. 2 PLOW NO. 21-UP	DI	BELT4	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	5	12	12(+)/A12	12(-)/B12	N/A	N/A
ZSB400SPL021	SLUDGE BELT NO. 2 PLOW NO. 21-DOWN	DI	BELT3	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	5	13	13(+)/A13	13(-)/B13	N/A	N/A
HV400SCB002AE	SLUDGE BELT NO. 2 EFW VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	5	14	14(+)/A14	14(-)/B14	N/A	N/A
HV400SCB002BE	SLUDGE BELT NO. 2- WEST EFW VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	5	15	15(+)/A15	15(-)/B15	N/A	N/A
FSH400SSH001	NORTHERN CENTRIFUGE EYEWASH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	5	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400DSM002E	DEWATERING TANK NO. 2 MIXER NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	6	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400DSM002F	DEWATERING TANK NO. 2 MIXER NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	6	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400DSM002A	DEWATERING TANK NO. 2 MIXER NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	6	3	3(+)/A3	3(-)/B3	N/A	N/A
TS400DSM002	DEWATERING TANK NO. 2 MIXER NO. 2 HIGH TEMP	DI	HIGH	MORMAL	N/A	N/A	N/A	DPU 32-400	2	6	6	4	3(+)/A3	3(-)/B3	N/A	N/A
LSHH400DFT002	DEWATERING FEED TANK NO. 2 HI HI LEVEL	DI	HI HI	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	6	5	5(+)/A5	5(-)/B5	N/A	N/A
HS400TLM001E	THICKENING FEED TANK NO. 1 MIXER L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	6	6	6(+)/A6	6(-)/B6	N/A	N/A
HS400TLM001F	THICKENING FEED TANK NO. 1 MIXER ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	6	7	7(+)/A7	7(-)/B7	N/A	N/A
MS400TLM001A	THICKENING FEED TANK NO. 1 MIXER RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	6	8	8(+)/A8	8(-)/B8	N/A	N/A
LSHH400TFT001A	THICKENING FEED TANK NO. 1 HI HI LEVEL	DI	HI HI	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	6	9	9(+)/A9	9(-)/B9	N/A	N/A
HS400SBC004E	SLUDGE BELT NO. 4 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	6	10	10(+)/A10	10(-)/B10	N/A	N/A
HS400SBC004F	SLUDGE BELT NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	6	11	11(+)/A11	11(-)/B11	N/A	N/A
MS400SBC004A	SLUDGE BELT NO. 4 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	6	12	12(+)/A12	12(-)/B12	N/A	N/A
SSL400SBC004	SLUDGE BELT NO. 4 SPEED STATUS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	6	13	13(+)/A13	13(-)/B13	N/A	N/A
ZS400SBC004	SLUDGE BELT NO. 4 MISALIGNMENT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	6	14	14(+)/A14	14(-)/B14	N/A	N/A
HV400SCB004E	SLUDGE BELT NO. 4 EFW VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	6	15	15(+)/A15	15(-)/B15	N/A	N/A
EAF400PNL100	DPU32 PRIMARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	6	16	16(+)/A16	16(-)/B16	N/A	N/A
FS400DSM002	DEWATERING TANK NO. 2 MIXER NO. 2 LOW OIL	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	6	7	1	9(+)/A9	9(-)/B9	N/A	N/A
HS400GWS003F	WASTE SLUDGE GRINDER NO. 3 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	7	2				
XA400GWS003	WASTE SLUDGE GRINDER NO. 3 FAULT STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	7	3				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	6	7	4				
HS400TLM002E	THICKENING FEED TANK NO. 2 MIXER L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	7	5	5(+)/A5	5(-)/B5	N/A	N/A
HS400TLM002F	THICKENING FEED TANK NO. 2 MIXER ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	7	6	6(+)/A6	6(-)/B6	N/A	N/A
MS400TLM002A	THICKENING FEED TANK NO. 2 MIXER RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	7	7	7(+)/A7	7(-)/B7	N/A	N/A
LSHH400TFT002A	THICKENING FEED TANK NO. 2 HI HI LEVEL	DI	HI HI	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	7	8	8(+)/A8	8(-)/B8	N/A	N/A
EAF400PNL101	DPU32 SECONDARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	7	9	9(+)/A09	9(-)/B09	N/A	N/A
HS400GWS004F	WASTE SLUDGE GRINDER NO. 4 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	7	10				
XA400GWS004	WASTE SLUDGE GRINDER NO. 4 FAULT STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	7	11				
HS400PEW001E	DEWATERING EFW PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	7	12	12(+)/A12	12(-)/B12	N/A	N/A
HS400PEW001F	DEWATERING EFW PUMP NO. 1 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	7	13	13(+)/A13	13(-)/B13	N/A	N/A
MS400PEW001A	DEWATERING EFW PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	7	14	14(+)/A14	14(-)/B14	N/A	N/A
ZSO400GWS011	WAS SLUDGE GRINDER TO THICKENING TANK NO. 1 OPEN STATUS	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	7	15				
XA400PEW001	DEWATERING EFW PUMP NO. 1 DRIVE FAULT	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	7	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PTF001E	THICKENING FEED TANK DRAIN PUMP L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	8	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400PTF001F	THICKENING FEED TANK DRAIN PUMP ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	8	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400PTF001A	THICKENING FEED TANK DRAIN PUMP RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	8	3	3(+)/A3	3(-)/B3	N/A	N/A
HS400PDT001E	DEWATERING TANK DRAIN PUMP L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	8	4	4(+)/A4	4(-)/B4	N/A	N/A
HS400PDT001F	DEWATERING TANK DRAIN PUMP ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	8	5	5(+)/A5	5(-)/B5	N/A	N/A
MS400PDT001A	DEWATERING TANK DRAIN PUMP RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	8	6	6(+)/A6	6(-)/B6	N/A	N/A
EAM400UPS001	DPU32-400 UPS ALARM STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	2	6	8	7	7(+)/A07	7(-)/B07	N/A	N/A
ZSC400GWS011	WAS SLUDGE GRINDER TO THICKENING TANK NO. 1 CLOSE STATUS	DI	CLOSE	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	8	8				
XA400GWS002	WASTE SLUDGE GRINDER NO. 2 FAULT STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	8	9				
MS400GWS002A	WASTE SLUDGE GRINDER NO. 2 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	6	8	10	10(+)/A10	10(-)/B10	N/A	N/A
HS400GWS002E	WASTE SLUDGE GRINDER NO. 2 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	6	8	11	11(+)/A11	11(-)/B11	N/A	N/A
HS400GWS002F	WASTE SLUDGE GRINDER NO. 2 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	8	12	12(+)/A12	12(-)/B12	N/A	N/A
FSH400SSH010	DEWATERING TRUCK BAY EYEWASH	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	6	8	13	13(+)/A13	13(-)/B13	N/A	N/A
ZSO400PDT001	DEWATERING TANK DRAIN PUMP VALVE	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	8	14	14(+)/A14	14(-)/B14	N/A	N/A
ZSO400PTF001	THICKENING FEED TANK DRAIN PUMP CHECK VALVE	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	6	8	15	15(+)/A15	15(-)/B15	N/A	N/A
EN400UPS001	DPU32-400 UPS STATUS	DI	BATTERY	OFF	N/A	N/A	N/A	DPU 32-400	2	6	8	16	16(+)/A16	16(-)/B16	N/A	N/A
HS400PTS001A	THICKENED SLUDGE PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	1	1				
HS400HSC002X	CENTRIFUGE NO. 2 START PERMISSIVE	DO	ENABL	DISABL	N/A	N/A	N/A	DPU 32-400	2	7	1	2	2(+)/R2	2(-)/R2	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	7	1	3				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	7	1	4				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	7	1	5				
HS400DFP002A	DEWATERING FEED PUMP NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	1	6	6(+)/R6	6(-)/R6	N/A	N/A
HS400GDF002A	DEWATERING FEED GRINDER NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	1	7	7(+)/R7	7(-)/R7	N/A	N/A
HS400PP022A	POLYMER FEED PUMP NO. 22 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	1	8	8(+)/R8	8(-)/R8	N/A	N/A
HV400HSC002B	CENTRIFUGE NO. 2 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	1	9	9(+)/R9	9(-)/R9	N/A	N/A
HS400PMP021A	POLYMER MIX PUMP NO. 21 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	1	10	10(+)/R10	10(-)/R10	N/A	N/A
HS400DSM001A	DEWATERING TANK NO. 1 MIXER NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	1	11	11(+)/R11	11(-)/R11	N/A	N/A
HS400TLM001A	THICKENING FEED TANK NO. 1 MIXER S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	1	12	12(+)/R12	12(-)/R12	N/A	N/A
HS400GWS003A	WASTE SLUDGE GRINDER NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	1	13	13(+)/R13	13(-)/R13	N/A	N/A
HS400GWS004A	WASTE SLUDGE GRINDER NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	1	14	14(+)/R14	14(-)/R14	N/A	N/A
HV400GWS003	WASTE SLUDGE GRINDER NO. 3 INLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	1	15				
HV400GWS008	WASTE SLUDGE GRINDER NO. 3 OUTLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	1	16				
HS400TFP006A	THICKENING FEED PUMP NO. 6 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	2	1				
HS400HSC004X	CENTRIFUGE NO. 4 START PERMISSIVE	DO	ENABL	DISABL	N/A	N/A	N/A	DPU 32-400	2	7	2	2	2(+)/R2	2(-)/R2	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	7	2	3				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	7	2	4				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	7	2	5				
HS400GDF004A	DEWATERING FEED GRINDER NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	2	6	6(+)/R6	6(-)/R6	N/A	N/A
HS400DFP004A	DEWATERING FEED PUMP NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	2	7	7(+)/R7	7(-)/R7	N/A	N/A
HS400PP024A	POLYMER FEED PUMP NO. 24 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	2	8	8(+)/R8	8(-)/R8	N/A	N/A
HV400HSC004B	CENTRIFUGE NO. 4 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	2	9	9(+)/R9	9(-)/R9	N/A	N/A
HS400PMP022A	POLYMER MIX PUMP NO. 22 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	2	10	10(+)/R10	10(-)/R10	N/A	N/A
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	7	2	11				
HS400TLM002A	THICKENING FEED TANK NO. 2 MIXER S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	2	12	12(+)/R12	12(-)/R12	N/A	N/A
HS400PLM012A	POLYMER MIXER NO. 12 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	2	13				
HS400LGT001A	DEWATERING ROOF LIGHTING CONTROL	DO	ON	OFF	N/A	N/A	N/A	DPU 32-400	2	7	2	14			N/A	N/A
HV400GWS004	WASTE SLUDGE GRINDER NO. 4 INLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	2	15				
HV400GWS009	WASTE SLUDGE GRINDER NO. 4 OUTLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	2	16				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	7	3	1				
HS400HSC006X	CENTRIFUGE NO. 6 START PERMISSIVE	DO	ENABL	DISABL	N/A	N/A	N/A	DPU 32-400	2	7	3	2	2(+)/R2	2(-)/R2	N/A	N/A
HS400TGB006A	GBT NO. 6 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	3	3				
HS400TGB006X	GBT NO. 6 START PERMISSIVE	DO	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	2	7	3	4				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	7	3	5				
HS400GDF006A	DEWATERING FEED GRINDER NO. 6 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	3	6	6(+)/R6	6(-)/R6	N/A	N/A
HS400DFP006A	DEWATERING FEED PUMP NO. 6 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	3	7	7(+)/R7	7(-)/R7	N/A	N/A
HS400PP026A	POLYMER FEED PUMP NO. 26 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	3	8	8(+)/R8	8(-)/R8	N/A	N/A
HV400HSC006B	CENTRIFUGE NO. 6 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	3	9	9(+)/R9	9(-)/R9	N/A	N/A
HS400SCB002BA	SLUDGE BELT NO. 2-LIME BUILDING S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	3	10	10(+)/R10	10(-)/R10	N/A	N/A
HV400SCB002AA	SLUDGE BELT NO. 2 EFW VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	3	11	11(+)/R11	11(-)/R11	N/A	N/A
HV400SCB002BA	SLUDGE BELT NO. 2- WEST EFW VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	3	12	12(+)/R12	12(-)/R12	N/A	N/A
HS400SPL021A	SLUDGE BELT NO. 2 PLOW NO. 21 CONTROL-UP	DO	BELT4	STOP	N/A	N/A	N/A	DPU 32-400	2	7	3	13	13(+)/R13	13(-)/R13	N/A	N/A
HS400SPL021B	SLUDGE BELT NO. 2 PLOW NO. 21 CONTROL-DOWN	DO	BELT3	STOP	N/A	N/A	N/A	DPU 32-400	2	7	3	14	14(+)/R14	14(-)/R14	N/A	N/A
HS400SCB002AA	SLUDGE BELT NO. 2-INCINERATOR S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	3	15	15(+)/R15	15(-)/R15	N/A	N/A
HS400TFP003A	THICKENING FEED PUMP NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	3	16				
HS400HSC008A	CENTRIFUGE NO. 8 S/S CONTROL (FUTURE)	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	4	1	1(+)/R1	1(-)/R1	N/A	N/A
HS400HSC008X	CENTRIFUGE NO. 8 START PERMISSIVE (FUTURE)	DO	ENABL	DISABL	N/A	N/A	N/A	DPU 32-400	2	7	4	2	2(+)/R2	2(-)/R2	N/A	N/A
HS400HSC008FX	CENTRIFUGE NO. 8 DCS ESTOP CONTROL (FUTURE)	DO	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	7	4	3	3(+)/R3	3(-)/R3	N/A	N/A
HV400GSD081A	CENTRIFUGE NO. 8 GATE NO. 1-BELT NO. 1 CONTROL (FUTURE)	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	4	4	4(+)/R4	4(-)/R4	N/A	N/A
HV400GSD082A	CENTRIFUGE NO. 8 GATE NO. 2-BELT NO. 2 CONTROL (FUTURE)	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	4	5	5(+)/R5	5(-)/R5	N/A	N/A
HS400GDF008A	DEWATERING FEED GRINDER NO. 8 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	4	6	6(+)/R6	6(-)/R6	N/A	N/A
HS400DFP008A	DEWATERING FEED PUMP NO. 8 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	4	7	7(+)/R7	7(-)/R7	N/A	N/A
HS400PP028A	POLYMER FEED PUMP NO. 28 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	4	8	8(+)/R8	8(-)/R8	N/A	N/A
HV400HSC008B	CENTRIFUGE NO. 8 POLYMER DILUTION VALVE CONTROL (FUTURE)	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	4	9	9(+)/R9	9(-)/R9	N/A	N/A
HS400PEW001A	DEWATERING EFW PUMP NO. 1 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	4	10	10(+)/R10	10(-)/R10	N/A	N/A
HS400SCB005A	SLUDGE ELEVATING BELT NO. 5 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	4	11	10(+)/R10	10(-)/R10	N/A	N/A
HS400TGB003A	GBT NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	4	12				
HS400TGB003X	GBT NO. 3 START PERMISSIVE	DO	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	2	7	4	13				
HS400GPS004A	PRIMARY SLUDGE GRINDER NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	4	14				
HS400PTS003A	THICKENED SLUDGE PUMP NO. 3 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	4	15				
HS400PP013A	POLYMER FEED PUMP NO. 13 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	4	16				
HS400SCB004A	SLUDGE BELT NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	1	1(+)/R1	1(-)/R1	N/A	N/A
HV400SCB004A	SLUDGE BELT NO. 4 EFW VALVE CRTL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	5	2	2(+)/R2	2(-)/R2	N/A	N/A
HS400TFP007A	THICKENING FEED PUMP NO. 7 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	3				
HS400PP017A	POLYMER FEED PUMP NO. 17 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	4				
HV400PMT011AA	POLYMER MIXING TANK NO. 11 INLET VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	5				
HV400PMT011AB	POLYMER MIXING TANK NO. 11 INLET VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	6				
HS400PLM021A	POLYMER MIXER NO. 21 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	7	7(+)/R7	7(-)/R7	N/A	N/A

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
HS400PMX021A	POLYMER MIX UNIT NO. 21 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	8	8(+)/R8	8(-)/R8	N/A	N/A
HV400PMT021AA	POLYMER MIX TANK NO. 21 INLET VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	9	9(+)/R9	9(-)/R9	N/A	N/A
HV400PMT021AB	POLYMER MIX TANK NO. 21 INLET VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	10	10(+)/R10	10(-)/R10	N/A	N/A
HV400PMT021BA	POLYMER MIX TANK NO. 21 OUTLET VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	11	11(+)/R11	11(-)/R11	N/A	N/A
HV400PMT021BB	POLYMER MIX TANK NO. 21 OUTLET VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	12	12(+)/R12	12(-)/R12	N/A	N/A
HV400PMT011BA	POLYMER MIXING TANK NO. 11 OUTLET VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	13				
HV400PMT011BB	POLYMER MIXING TANK NO. 11 OUTLET VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	7	5	14				
HV400TGB003B	GBT NO. 3 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	5	15				
HV400GWS013	WAS SLUDGE GRINDER TO DEWATERING FEED TANKS VALVE CTRL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	5	16				
HS400PLM022A	POLYMER MIXER NO. 22 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	1	1(+)/R1	1(-)/R1	N/A	N/A
HS400PMX022A	POLYMER MIX UNIT NO. 22 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	2	2(+)/R2	2(-)/R2	N/A	N/A
HV400PMT022AA	POLYMER MIX TANK NO. 22 INLET VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	3	3(+)/R3	3(-)/R3	N/A	N/A
HV400PMT022AB	POLYMER MIX TANK NO. 22 INLET VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	4	4(+)/R4	4(-)/R4	N/A	N/A
HV400PMT022BA	POLYMER MIX TANK NO. 22 OUTLET VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	5	5(+)/R5	5(-)/R5	N/A	N/A
HV400PMT022BB	POLYMER MIX TANK NO. 22 OUTLET VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	6	6(+)/R6	6(-)/R6	N/A	N/A
HS400DSM002A	DEWATERING TANK NO. 2 MIXER NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	7	7(+)/R7	7(-)/R7	N/A	N/A
HS400PDT001A	DEWATERING TANK DRAIN PUMP S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	8	8(+)/R8	8(-)/R8	N/A	N/A
HS400PTF001A	THICKENING FEED TANK DRAIN PUMP S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	9	9(+)/R9	9(-)/R9	N/A	N/A
HS400GWS002A	WASTE SLUDGE GRINDER NO. 2 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	10	10(+)/R10	10(-)/R10	N/A	N/A
HS400TFP004A	THICKENING FEED PUMP NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	11				
HS400TGB004A	GBT NO. 4 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	12				
HS400TGB004X	GBT NO. 4 START PERMISSIVE	DO	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	2	7	6	13				
HS400FPF016A	POLYMER FEED PUMP NO. 16 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	6	14				
HV400GWS002	WASTE SLUDGE GRINDER NO. 2 INLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	6	15				
HV400GWS007	WASTE SLUDGE GRINDER NO. 2 OUTLET VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	6	16				
HS400PLM023A	POLYMER MIXER NO. 23 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	7	1	1(+)/R1	1(-)/R1	N/A	N/A
HS400PMX023A	POLYMER MIX UNIT NO. 23 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	7	2	2(+)/R2	2(-)/R2	N/A	N/A
HV400PMT023AA	POLYMER MIX TANK NO. 23 INLET VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	7	7	3	3(+)/R3	3(-)/R3	N/A	N/A
HV400PMT023AB	POLYMER MIX TANK NO. 23 INLET VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	7	7	4	4(+)/R4	4(-)/R4	N/A	N/A
HV400PMT023BA	POLYMER MIX TANK NO. 23 OUTLET VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	7	7	5	5(+)/R5	5(-)/R5	N/A	N/A
HV400PMT023BB	POLYMER MIX TANK NO. 23 OUTLET VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	7	7	6	6(+)/R6	6(-)/R6	N/A	N/A
HV400PMT012AA	POLYMER MIXING TANK NO. 12 INLET VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	7	7	7				
HV400PMT012AB	POLYMER MIXING TANK NO. 12 INLET VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	7	7	8				
HV400PMT012BA	POLYMER MIXING TANK NO. 12 OUTLET VALVE CONTROL	DO	OPEN	STOP	N/A	N/A	N/A	DPU 32-400	2	7	7	9				
HV400PMT012BB	POLYMER MIXING TANK NO. 12 OUTLET VALVE CONTROL	DO	CLOSE	STOP	N/A	N/A	N/A	DPU 32-400	2	7	7	10				
HV400TGB004B	GBT NO. 4 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	7	11				
HV400TGB005B	GBT NO. 5 POLYMER DILUTION VALVE CONTROL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	7	12				
	SPARE	DO			N/A	N/A	N/A	DPU 32-400	2	7	7	13				
HV400GWS014	WAS SLUDGE GRINDER TO THICKENING FEED TANK NO. 2 VALVE CTRL	DO	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	7	7	14				
HS400FPF015A	POLYMER FEED PUMP NO. 15 S/S CONTROL	DO	START	STOP	N/A	N/A	N/A	DPU 32-400	2	7	7	15				
HN400EVA001	DEWATERING EVACUATION ALARM	DO	ON	OFF	N/A	N/A	N/A	DPU 32-400	2	7	7	16			N/A	N/A
HS400HSC008E	CENTRIFUGE NO. 8 L-O-R STATUS (FUTURE)	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	8	1	1	1(+)/A1	1(-)/B1	N/A	N/A
HS400HSC008F	CENTRIFUGE NO. 8 ESTOP STATUS (FUTURE)	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	1	2	2(+)/A2	2(-)/B2	N/A	N/A
MS400HSC008A	CENTRIFUGE NO. 8 RUN STATUS (FUTURE)	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	8	1	3	3(+)/A3	3(-)/B3	N/A	N/A
MS400HSC008B	CENTRIFUGE NO. 8 SHUTDOWN STATUS (FUTURE)	DI	SHUTDN	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	1	4	4(+)/A4	4(-)/B4	N/A	N/A
XS400HSC008A	CENTRIFUGE NO. 8-READY FOR SLUDGE STATUS (FUTURE)	DI	READY	NREADY	N/A	N/A	N/A	DPU 32-400	2	8	1	5	5(+)/A5	5(-)/B5	N/A	N/A
ZSC400GSD081	CENTRIFUGE NO. 8 GATE NO. 1 TO BELT NO. 1 CLOSED (FUTURE)	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	8	1	6	6(+)/A6	6(-)/B6	N/A	N/A
ZSC400GSD082	CENTRIFUGE NO. 8 GATE NO. 2 TO BELT NO. 2 CLOSED (FUTURE)	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	8	1	7	7(+)/A7	7(-)/B7	N/A	N/A
ZSO400GSD081	CENTRIFUGE NO. 8 GATE NO. 1-BELT NO. 1 OPEN (FUTURE)	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	8	1	8	8(+)/A8	8(-)/B8	N/A	N/A
ZSO400GSD082	CENTRIFUGE NO. 8 GATE NO. 2-BELT NO. 2 OPEN (FUTURE)	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	8	1	9	9(+)/A9	9(-)/B9	N/A	N/A
HV400GSD081E	CENTRIFUGE NO. 8 GATE NO. 1 L-O-R STATUS (FUTURE)	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	8	1	10	10(+)/A10	10(-)/B10	N/A	N/A
HV400GSD082E	CENTRIFUGE NO. 8 GATE NO. 2-BELT NO. 2 L-O-R STATUS (FUTURE)	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	8	1	11	11(+)/A11	11(-)/B11	N/A	N/A
FSH400HSC008B	CENTRIFUGE NO. 8 POLYMER DILUTION LOW FLOW (FUTURE)	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	8	1	12	12(+)/A12	12(-)/B12	N/A	N/A
EAF400PNL102	AOC-3 PRIMARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	1	13	13(+)/A13	13(-)/B13	N/A	N/A
EAF400PNL103	AOC-3 SECONDARY POWER TVSS STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	1	14	14(+)/A14	14(-)/B14	N/A	N/A
EAM400UPS002	AOC3-400 PRIMARY UPS STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	2	8	1	15	15(+)/A15	15(-)/B15	N/A	N/A
EN400UPS002	AOC3-400 PRIMARY UPS STATUS	DI	BATTERY	OFF	N/A	N/A	N/A	DPU 32-400	2	8	1	16	16(+)/A16	16(-)/B16	N/A	N/A
FSL400GVDV001	MIX ROOM EXHAUST LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	2	1	8(+)/A8	8(-)/B8	N/A	N/A
XS400GVDV001	MIX ROOM HIGH GAS LEVEL	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	2	2	8(+)/A8	8(-)/B8	N/A	N/A
XS400GVDV002	MIX ROOM GAS PANEL FAULT	DI	TROUBLE	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	2	3	8(+)/A8	8(-)/B8	N/A	N/A
MS400SBC005A	SLUDGE ELEVATING BELT NO. 5 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	8	2	4	8(+)/A8	8(-)/B8	N/A	N/A
HS400SBC005E	SLUDGE ELEVATING BELT NO. 5 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	8	2	5	6(+)/A6	6(-)/B6	N/A	N/A
HS400SBC005F	SLUDGE ELEVATING BELT NO. 5 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	2	6	7(+)/A7	7(-)/B7	N/A	N/A
SSL400SBC005	SLUDGE ELEVATING BELT NO. 5 LOW SPEED	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	2	7	9(+)/A9	9(-)/B9	N/A	N/A
XS400FAP001	DEWATERING FIRE PANEL FAULT STATUS	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	2	8	8(+)/A08	8(-)/B08	N/A	N/A
PSH400PEW001	DEWATERING FFW STRAINER HIGH PRESSURE	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	2	9	8(+)/A8	8(-)/B8	N/A	N/A
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	2	10				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	2	11				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	2	12				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	2	13				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	2	14				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	2	15				
LSH400TPS013A	POLYMER STORAGE TANK HIGH LEVEL	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	2	16				
LSH400TPS013B	POLYMER STORAGE TANK CONTAINMENT LEVEL	DI	ALARM	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	3	1				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	3	2				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	3	3				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	3	4				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	3	5				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	3	6				
PSL400PP015	POLYMER FEED PUMP NO. 15 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	3	7				
PSH400PP015	POLYMER FEED PUMP NO. 15 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	3	8				
HS400PP015E	POLYMER FEED PUMP NO. 15 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	8	3	9				
HS400PP015F	POLYMER FEED PUMP NO. 15 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	3	10				
MS400PP015A	POLYMER FEED PUMP NO. 15 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	8	3	11				
UA400PP015	POLYMER FEED PUMP NO. 15 FAULT STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	2	8	3	12				
FSL400TGB005B	GBT NO. 5 POLYMER POST DILUTION LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	3	13				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	3	14				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	3	15				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	3	16				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	4	1				
FSL400TFP006	THICKENING FEED PUMP NO. 6 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	8	4	2				
ZSO400TFP006	THICKENING FEED PUMP NO. 6 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	8	4	3				
HS400TFP006E	THICKENING FEED PUMP NO. 6 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	8	4	4				
HS400TFP006F	THICKENING FEED PUMP NO. 6 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	4	5				
MS400TFP006A	THICKENING FEED PUMP NO. 6 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	8	4	6				
UA400TFP006	THICKENING FEED PUMP NO. 6 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	2	8	4	7				
UI400TGB006	GBT NO. 6 READY STATUS	DI	READY	NOT READY	N/A	N/A	N/A	DPU 32-400	2	8	4	8				
HS400TGB006E	GBT NO. 6 L-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	8	4	9				
HS400TGB006AF	GBT NO. 6 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	4	10				
HS400TGB006BF	GBT NO. 6 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	4	11				
MS400TGB006A	GBT NO. 6 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	8	4	12				
UA400TGB006	GBT NO. 6 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	2	8	4	13				
HS400TGB006AA	GBT NO. 6 FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	8	4	14				
HS400TGB006BA	GBT NO. 6 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400	2	8	4	15				
HS400TGB006AE	GBT NO. 6 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400	2	8	4	16				
HS400TGB006AS	GBT NO. 6 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP6	PUMP7	N/A	N/A	N/A	DPU 32-400	2	8	5	1				
HS400TGB006BS	GBT NO. 6 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP16	PUMP17	N/A	N/A	N/A	DPU 32-400	2	8	5	2				
HS400GWS012A	WAS SLUDGE GRINDER TO DEWATERING FEED TANKS O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	8	5	3				
HS400GWS012B	WAS SLUDGE GRINDER TO DEWATERING FEED TANKS O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	2	8	5	4				
ZSO400GWS012	WAS SLUDGE GRINDER TO DEWATERING FEED TANKS OPEN STATUS	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	8	5	5				
ZSC400GWS012	WAS SLUDGE GRINDER TO DEWATERING FEED TANKS CLOSE STATUS	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400	2	8	5	6				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	5	7				
	SPARE	DI			N/A	N/A	N/A	DPU 32-400	2	8	5	8				
PSL400PP016	POLYMER FEED PUMP NO. 16 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	5	9				
PSH400PP016	POLYMER FEED PUMP NO. 16 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	5	10				
HS400PP016E	POLYMER FEED PUMP NO. 16 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	8	5	11				
HS400PP016F	POLYMER FEED PUMP NO. 16 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	5	12				
MS400PP016A	POLYMER FEED PUMP NO. 16 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	8	5	13				
UA400PP016	POLYMER FEED PUMP NO. 16 FAULT STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	2	8	5	14				
FSL400TGB006B	GBT NO. 6 POLYMER POST DILUTION LOW FLOW	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	5	15				
LSH400PMT011A	POLYMER MIXING TANK NO. 11 LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	5	16				
FSL400TFP007	THICKENING FEED PUMP NO. 7 SEAL H2O STATUS	DI	NORMAL	LOW	N/A	N/A	N/A	DPU 32-400	2	8	6	1				
ZSO400TFP007	THICKENING FEED PUMP NO. 7 CHECK VALVE STATUS	DI	OPEN	CLOSE	N/A	N/A	N/A	DPU 32-400	2	8	6	2				
HS400TFP007E	THICKENING FEED PUMP NO. 7 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	8	6	3				
HS400TFP007F	THICKENING FEED PUMP NO. 7 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	6	4				
MS400TFP007A	THICKENING FEED PUMP NO. 7 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	8	6	5				
UA400TFP007	THICKENING FEED PUMP NO. 7 AFD STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	2	8	6	6				
LSH400PMT012A	POLYMER MIXING TANK NO. 12 LEVEL STATUS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	6	7				
PSL400PP017	POLYMER FEED PUMP NO. 17 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	6	8				
PSH400PP017	POLYMER FEED PUMP NO. 17 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	6	9				
HS400PP017E	POLYMER FEED PUMP NO. 17 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400	2	8	6	10				
HS400PP017F	POLYMER FEED PUMP NO. 17 ESTOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400	2	8	6	11				
MS400PP017A	POLYMER FEED PUMP NO. 17 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400	2	8	6	12				
UA400PP017	POLYMER FEED PUMP NO. 17 FAULT STATUS	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400	2	8	6	13				
HS400GWS013A	WAS SLUDGE GRINDER TO DEWATERING FEED TANKS O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400	2	8	6	14				
HS400GWS013B	WAS SLUDGE GRINDER TO DEWATERING FEED TANKS O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400	2	8	6	15				

Point Name	IO English Description	IO Type	Set (1)	Reset (0)	BOTBAR	TOPBAR	Units	HW Address								
PN	ED		ST	RS	BW	TW	EU	DPU Number	Device	Branch	Module	Channel	Term +	Term -	Shield	Loop Supply
ZSO400GWS013	WAS SLUDGE GRINDER TO DEWATERING FEED TANKS OPEN STATUS	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400		2	8	6	16			
ZSC400GWS013	WAS SLUDGE GRINDER TO DEWATERING FEED TANKS CLOSE STATUS	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400		2	8	7	1			
HS400PLM011E	POLYMER MIXER NO. 11 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400		2	8	7	2			
HS400PLM011F	POLYMER MIXER NO. 11 E-STOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400		2	8	7	3			
MS400PLM011A	POLYMER MIXER NO. 11 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400		2	8	7	4			
PSL400PTS001	THICKENED SLUDGE PUMP NO. 1 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400		2	8	7	5			
PSH400PTS001	THICKENED SLUDGE PUMP NO. 1 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400		2	8	7	6			
HS400PTS001E	THICKENED SLUDGE PUMP NO. 1 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400		2	8	7	7			
MS400PTS001A	THICKENED SLUDGE PUMP NO. 1 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400		2	8	7	8			
UA400PTS001	THICKENED SLUDGE PUMP NO. 1 AFD FAULT	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400		2	8	7	9			
HS400PTS001F	THICKENED SLUDGE PUMP NO. 1 E-STOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400		2	8	7	10			
HS400TGB005AA	GBT NO. 5 FEED PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400		2	8	7	11			
HS400TGB005BA	GBT NO. 5 POLYMER PUMP S/S-PANEL	DI	START	STOP	N/A	N/A	N/A	DPU 32-400		2	8	7	12			
HS400TGB005AE	GBT NO. 5 DCS-LOCAL FEED CONTROL STATUS-PANEL	DI	DCS	LOCAL	N/A	N/A	N/A	DPU 32-400		2	8	7	13			
HS400TGB005AS	GBT NO. 5 SLUDGE PUMP SELECT STATUS-PANEL	DI	PUMP5	PUMP6	N/A	N/A	N/A	DPU 32-400		2	8	7	14			
HS400TGB005BS	GBT NO. 5 POLYMER PUMP SELECT STATUS-PANEL	DI	PUMP15	PUMP16	N/A	N/A	N/A	DPU 32-400		2	8	7	15			
HS400PMT011A	POLYMER MIXING TANK NO. 11 INLET VALVE L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400		2	8	7	16			
ZSO400PMT011A	POLYMER MIXING TANK NO. 11 INLET VALVE OPEN	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400		2	8	8	1			
ZSC400PMT011A	POLYMER MIXING TANK NO. 11 INLET VALVE CLOSED	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400		2	8	8	2			
PSL400PTS003	THICKENED SLUDGE PUMP NO. 3 LOW PRESS	DI	LOW	NORMAL	N/A	N/A	N/A	DPU 32-400		2	8	8	3			
PSH400PTS003	THICKENED SLUDGE PUMP NO. 3 HIGH PRESS	DI	HIGH	NORMAL	N/A	N/A	N/A	DPU 32-400		2	8	8	4			
HS400PTS003E	THICKENED SLUDGE PUMP NO. 3 L-O-R STATUS	DI	REMOTE	LOCAL	N/A	N/A	N/A	DPU 32-400		2	8	8	5			
MS400PTS003A	THICKENED SLUDGE PUMP NO. 3 RUN STATUS	DI	RUN	OFF	N/A	N/A	N/A	DPU 32-400		2	8	8	6			
UA400PTS003	THICKENED SLUDGE PUMP NO. 3 AFD FAULT	DI	NORMAL	ALARM	N/A	N/A	N/A	DPU 32-400		2	8	8	7			
HS400PTS003F	THICKENED SLUDGE PUMP NO. 3 E-STOP STATUS	DI	E-STOP	NORMAL	N/A	N/A	N/A	DPU 32-400		2	8	8	8			
HS400GWS014A	WAS SLUDGE GRINDER TO THICKENING TANK NO. 2 O-C-R STATUS	DI	REMOTE	NOT REMOTE	N/A	N/A	N/A	DPU 32-400		2	8	8	9			
HS400GWS014B	WAS SLUDGE GRINDER TO THICKENING TANK NO. 2 O-C-R STATUS	DI	OPEN	NOT OPEN	N/A	N/A	N/A	DPU 32-400		2	8	8	10			
ZSO400GWS014	WAS SLUDGE GRINDER TO THICKENING TANK NO. 2 OPEN STATUS	DI	OPEN	TRAVEL	N/A	N/A	N/A	DPU 32-400		2	8	8	11			
ZSC400GWS014	WAS SLUDGE GRINDER TO THICKENING TANK NO. 2 CLOSE STATUS	DI	CLOSED	TRAVEL	N/A	N/A	N/A	DPU 32-400		2	8	8	12			
	SPARE	DI			N/A	N/A	N/A	DPU 32-400		2	8	8	13			
	SPARE	DI			N/A	N/A	N/A	DPU 32-400		2	8	8	14			
	SPARE	DI			N/A	N/A	N/A	DPU 32-400		2	8	8	15			
	SPARE	DI			N/A	N/A	N/A	DPU 32-400		2	8	8	16			

Attachment E

Section 40 70 00 Attachment, Instrument List

(11" x 17" (6 pages))

SECTION 407000 APPENDIX A: FIELD INSTRUMENT SCHEDULE

P&ID No.	ISA Tag and Loop No.	Loop Suffix	Description	Location	Size	Type	Power	Signal	Range	Setpoint	Units	Spec	Install Detail
400-I-002	LIT-L400TFT001		Thickening Feed Tank No. 1 Level Transmitter	Thickening Feed Tank No. 1	6"	Radar Level Transmitter	--	4-20 mA	0-28	--	ft	40 72 23	A
400-I-002	LSH-L400TFT001	A	Thickening Feed Tank No. 1 High Level Switch	Thickening Feed Tank No. 1	6"	Level Switch	--	120 VAC	--	4.17	ft from Top of Tank	40 72 76	F
400-I-002	LIT-L400TFT002		Thickening Feed Tank No. 1 Level Transmitter	Thickening Feed Tank No. 2	6"	Radar Level Transmitter	--	4-20 mA	0-28	--	ft	40 72 23	A
400-I-002	LSH-L400TFT002	A	Thickening Feed Tank No. 1 High Level Switch	Thickening Feed Tank No. 2	6"	Level Switch	--	120 VAC	--	4.17	ft from Top of Tank	40 72 76	F
400-I-002	PI-P400PTF001	A	Thickening Feed Tank Drain Pump Suction Pressure Gauge	Thickening Feed Tank Drain Pump Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
400-I-002	PI-P400PTF001	B	Thickening Feed Tank Drain Pump Discharge Pressure Gauge	Thickening Feed Tank Drain Pump Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
400-I-002	PI-P400TFP001	A	Thickening Feed Pump No. 1 Suction Pressure Gauge	Thickening Feed Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
400-I-002	PI-P400TFP001	B	Thickening Feed Pump No. 1 Discharge Pressure Gauge	Thickening Feed Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	B
400-I-002	FSL-F400TFP001		Thickening Feed Pump No. 1 Seal Water Low Flow Switch	Thickening Feed Pump No. 1 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
400-I-002	FI-F400TFP001		Thickening Feed Pump No. 1 Seal Water Rotameter	Thickening Feed Pump No. 1 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
400-I-002	PI-P400TFP001	C	Thickening Feed Pump No. 1 Seal Water Pressure Gauge	Thickening Feed Pump No. 1 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
400-I-002	PI-P400TFP002	A	Thickening Feed Pump No. 2 Suction Pressure Gauge	Thickening Feed Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
400-I-002	PI-P400TFP002	B	Thickening Feed Pump No. 2 Discharge Pressure Gauge	Thickening Feed Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	B
400-I-002	FSL-F400TFP002		Thickening Feed Pump No. 2 Seal Water Low Flow Switch	Thickening Feed Pump No. 2 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
400-I-002	FI-F400TFP002		Thickening Feed Pump No. 2 Seal Water Rotameter	Thickening Feed Pump No. 2 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
400-I-002	PI-P400TFP002	C	Thickening Feed Pump No. 2 Seal Water Pressure Gauge	Thickening Feed Pump No. 2 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
400-I-002	PI-P400TFP003	A	Thickening Feed Pump No. 3 Suction Pressure Gauge	Thickening Feed Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
400-I-002	PI-P400TFP003	B	Thickening Feed Pump No. 3 Discharge Pressure Gauge	Thickening Feed Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	B
400-I-002	FSL-F400TFP003		Thickening Feed Pump No. 3 Seal Water Low Flow Switch	Thickening Feed Pump No. 3 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
400-I-002	FI-F400TFP003		Thickening Feed Pump No. 3 Seal Water Rotameter	Thickening Feed Pump No. 3 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
400-I-002	PI-P400TFP003	C	Thickening Feed Pump No. 3 Seal Water Pressure Gauge	Thickening Feed Pump No. 3 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
400-I-002	PI-P400TFP004	A	Thickening Feed Pump No. 4 Suction Pressure Gauge	Thickening Feed Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
400-I-002	PI-P400TFP004	B	Thickening Feed Pump No. 4 Discharge Pressure Gauge	Thickening Feed Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	B
400-I-002	FSL-F400TFP004		Thickening Feed Pump No. 4 Seal Water Low Flow Switch	Thickening Feed Pump No. 4 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
400-I-002	FI-F400TFP004		Thickening Feed Pump No. 4 Seal Water Rotameter	Thickening Feed Pump No. 4 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
400-I-002	PI-P400TFP004	C	Thickening Feed Pump No. 4 Seal Water Pressure Gauge	Thickening Feed Pump No. 4 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
400-I-003	PI-P400TFP005	A	Thickening Feed Pump No. 5 Suction Pressure Gauge	Thickening Feed Pump No. 5 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
400-I-003	PI-P400TFP005	B	Thickening Feed Pump No. 5 Discharge Pressure Gauge	Thickening Feed Pump No. 5 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	B
400-I-003	FSL-F400TFP005		Thickening Feed Pump No. 5 Seal Water Low Flow Switch	Thickening Feed Pump No. 5 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
400-I-003	FI-F400TFP005		Thickening Feed Pump No. 5 Seal Water Rotameter	Thickening Feed Pump No. 5 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
400-I-003	PI-P400TFP005	C	Thickening Feed Pump No. 5 Seal Water Pressure Gauge	Thickening Feed Pump No. 5 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
400-I-003	PI-P400TFP006	A	Thickening Feed Pump No. 6 Suction Pressure Gauge	Thickening Feed Pump No. 6 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
400-I-003	PI-P400TFP006	B	Thickening Feed Pump No. 6 Discharge Pressure Gauge	Thickening Feed Pump No. 6 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	B
400-I-003	FSL-F400TFP006		Thickening Feed Pump No. 6 Seal Water Low Flow Switch	Thickening Feed Pump No. 6 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	--	--	40 71 79	--
400-I-003	FI-F400TFP006		Thickening Feed Pump No. 6 Seal Water Rotameter	Thickening Feed Pump No. 6 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
400-I-003	PI-P400TFP006	C	Thickening Feed Pump No. 6 Seal Water Pressure Gauge	Thickening Feed Pump No. 6 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
400-I-003	PI-P400TFP007	A	Thickening Feed Pump No. 7 Suction Pressure Gauge	Thickening Feed Pump No. 7 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
400-I-003	PI-P400TFP007	B	Thickening Feed Pump No. 7 Discharge Pressure Gauge	Thickening Feed Pump No. 7 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	B
400-I-003	FSL-F400TFP007		Thickening Feed Pump No. 7 Seal Water Low Flow Switch	Thickening Feed Pump No. 7 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
400-I-003	FI-F400TFP007		Thickening Feed Pump No. 7 Seal Water Rotameter	Thickening Feed Pump No. 7 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
400-I-003	PI-P400TFP007	C	Thickening Feed Pump No. 7 Seal Water Pressure Gauge	Thickening Feed Pump No. 7 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
400-I-004	FIT-F400TGB001	A	Gravity Belt Thickener No. 1 Feed Flow Meter	Gravity Belt Thickener No. 1 Feed Piping	8"	Magnetic Flow Meter	120 VAC	4-20 mA	0-2,000	--	gpm	40 71 13	C
400-I-004	PI-P400PWB001	A	Gravity Belt Thickener No. 1 Washwater Booster Pump Suction Pressure Gauge	Gravity Belt Thickener No. 1 Booster Pump Piping	1/4"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	J
400-I-004	FIT-F400TGB002	A	Gravity Belt Thickener No. 2 Feed Flow Meter	Gravity Belt Thickener No. 2 Feed Piping	8"	Magnetic Flow Meter	120 VAC	4-20 mA	0-2,000	--	gpm	40 71 13	C
400-I-004	PI-P400PWB002	A	Gravity Belt Thickener No. 2 Washwater Booster Pump Suction Pressure Gauge	Gravity Belt Thickener No. 2 Booster Pump Piping	1/4"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	J
400-I-004	FIT-F400TGB003	A	Gravity Belt Thickener No. 3 Feed Flow Meter	Gravity Belt Thickener No. 3 Feed Piping	8"	Magnetic Flow Meter	120 VAC	4-20 mA	0-2,000	--	gpm	40 71 13	C
400-I-004	PI-P400PWB003	A	Gravity Belt Thickener No. 3 Washwater Booster Pump Suction Pressure Gauge	Gravity Belt Thickener No. 3 Booster Pump Piping	1/4"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	J
400-I-004	FIT-F400TGB004	A	Gravity Belt Thickener No. 4 Feed Flow Meter	Gravity Belt Thickener No. 4 Feed Piping	8"	Magnetic Flow Meter	120 VAC	4-20 mA	0-2,000	--	gpm	40 71 13	C
400-I-004	PI-P400PWB004	A	Gravity Belt Thickener No. 4 Washwater Booster Pump Suction Pressure Gauge	Gravity Belt Thickener No. 4 Booster Pump Piping	1/4"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	J
400-I-005	FIT-F400TGB005	A	Gravity Belt Thickener No. 5 Feed Flow Meter	Gravity Belt Thickener No. 5 Feed Piping	8"	Magnetic Flow Meter	120 VAC	4-20 mA	0-2,000	--	gpm	40 71 13	C
400-I-005	PI-P400PWB005	A	Gravity Belt Thickener No. 5 Washwater Booster Pump Suction Pressure Gauge	Gravity Belt Thickener No. 5 Booster Pump Piping	1/4"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	J
400-I-005	FIT-F400TGB006	A	Gravity Belt Thickener No. 6 Feed Flow Meter	Gravity Belt Thickener No. 6 Feed Piping	8"	Magnetic Flow Meter	120 VAC	4-20 mA	0-2,000	--	gpm	40 71 13	C
400-I-005	PI-P400PWB006	A	Gravity Belt Thickener No. 6 Washwater Booster Pump Suction Pressure Gauge	Gravity Belt Thickener No. 6 Booster Pump Piping	1/4"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	J
400-I-006	LIT-L400TSS001		Thickened Sludge Sump No. 1 Level Transmitter	Thickened Sludge Sump No. 1	4"	Radar Level Transmitter	--	4-20 mA	0-8	--	ft	40 72 23	A
400-I-006	LSH-L400TSS001	A	Thickened Sludge Sump No. 1 High Level Switch	Thickened Sludge Sump No. 1	2"	Level Switch	--	120 VAC	--	2.17	ft from Top of Tank	40 72 76	F
400-I-006	PSL-P400PTS001	A	Thickened Sludge Pump No. 1 Suction Low Pressure Switch	Thickened Sludge Pump No. 1 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-006	PI-P400PTS001	C	Thickened Sludge Pump No. 1 Suction Pressure Gauge	Thickened Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-006	PSH-P400PTS001	B	Thickened Sludge Pump No. 1 Discharge High Pressure Switch	Thickened Sludge Pump No. 1 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-006	PI-P400PTS001	D	Thickened Sludge Pump No. 1 Discharge Pressure Gauge	Thickened Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-006	PSL-P400PTS002	A	Thickened Sludge Pump No. 2 Suction Low Pressure Switch	Thickened Sludge Pump No. 2 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-006	PI-P400PTS002	C	Thickened Sludge Pump No. 2 Suction Pressure Gauge	Thickened Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-006	PSH-P400PTS002	B	Thickened Sludge Pump No. 2 Discharge High Pressure Switch	Thickened Sludge Pump No. 2 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-006	PI-P400PTS002	D	Thickened Sludge Pump No. 2 Discharge Pressure Gauge	Thickened Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-006	LIT-L400TSS002		Thickened Sludge Sump No. 2 Level Transmitter	Thickened Sludge Sump No. 2	4"	Radar Level Transmitter	--	4-20 mA	0-8	--	ft	40 72 23	A
400-I-006	LSH-L400TSS002	A	Thickened Sludge Sump No. 2 High Level Switch	Thickened Sludge Sump No. 2	2"	Level Switch	--	120 VAC	--	2.17	ft from Top of Tank	40 72 76	F
400-I-006	PSL-P400PTS003	A	Thickened Sludge Pump No. 3 Suction Low Pressure Switch	Thickened Sludge Pump No. 3 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E

SECTION 407000 APPENDIX A: FIELD INSTRUMENT SCHEDULE

P&ID No.	ISA Tag and Loop No.	Loop Suffix	Description	Location	Size	Type	Power	Signal	Range	Setpoint	Units	Spec	Install Detail
400-I-006	PI-P400PTS003	C	Thickened Sludge Pump No. 3 Suction Pressure Gauge	Thickened Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-006	PSH-P400PTS003	B	Thickened Sludge Pump No. 3 Discharge High Pressure Switch	Thickened Sludge Pump No. 3 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-006	PI-P400PTS004	D	Thickened Sludge Pump No. 3 Discharge Pressure Gauge	Thickened Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-006	PSL-P400PTS004	A	Thickened Sludge Pump No. 4 Suction Low Pressure Switch	Thickened Sludge Pump No. 4 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-006	PI-P400PTS004	C	Thickened Sludge Pump No. 4 Suction Pressure Gauge	Thickened Sludge Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-006	PSH-P400PTS004	B	Thickened Sludge Pump No. 4 Discharge High Pressure Switch	Thickened Sludge Pump No. 4 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-006	PI-P400PTS004	D	Thickened Sludge Pump No. 4 Discharge Pressure Gauge	Thickened Sludge Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-006	FIT-F400PTS001		Thickened Sludge Pump Discharge Flow Meter	Thickened Sludge Pump Discharge Piping	4"	Magnetic Flow Meter	120 VAC	4-20 mA	0-600	--	gpm	40 71 13	C
400-I-006	FIT-F400PTS002		Thickened Sludge Pump Discharge Flow Meter	Thickened Sludge Pump Discharge Piping	4"	Magnetic Flow Meter	120 VAC	4-20 mA	0-600	--	gpm	40 71 13	C
400-I-009	PSL-P400DFP001	A	Dewatering Feed Pump No. 1 Suction Low Pressure Switch	Dewatering Feed Pump No. 1 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-009	PI-P400DFP001	C	Dewatering Feed Pump No. 1 Suction Pressure Gauge	Dewatering Feed Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-009	PSH-P400DFP001	B	Dewatering Feed Pump No. 1 Discharge High Pressure Switch	Dewatering Feed Pump No. 1 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-009	PI-P400DFP001	D	Dewatering Feed Pump No. 1 Discharge Pressure Gauge	Dewatering Feed Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-009	PSL-P400DFP002	A	Dewatering Feed Pump No. 2 Suction Low Pressure Switch	Dewatering Feed Pump No. 2 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-009	PI-P400DFP002	C	Dewatering Feed Pump No. 2 Suction Pressure Gauge	Dewatering Feed Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-009	PSH-P400DFP002	B	Dewatering Feed Pump No. 2 Discharge High Pressure Switch	Dewatering Feed Pump No. 2 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-009	PI-P400DFP002	D	Dewatering Feed Pump No. 2 Discharge Pressure Gauge	Dewatering Feed Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-009	PSL-P400DFP003	A	Dewatering Feed Pump No. 3 Suction Low Pressure Switch	Dewatering Feed Pump No. 3 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-009	PI-P400DFP003	C	Dewatering Feed Pump No. 3 Suction Pressure Gauge	Dewatering Feed Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-009	PSH-P400DFP003	B	Dewatering Feed Pump No. 3 Discharge High Pressure Switch	Dewatering Feed Pump No. 3 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-009	PI-P400DFP003	D	Dewatering Feed Pump No. 3 Discharge Pressure Gauge	Dewatering Feed Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-009	PSL-P400DFP004	A	Dewatering Feed Pump No. 4 Suction Low Pressure Switch	Dewatering Feed Pump No. 4 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-009	PI-P400DFP004	C	Dewatering Feed Pump No. 4 Suction Pressure Gauge	Dewatering Feed Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-009	PSH-P400DFP004	B	Dewatering Feed Pump No. 4 Discharge High Pressure Switch	Dewatering Feed Pump No. 4 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-009	PI-P400DFP004	D	Dewatering Feed Pump No. 4 Discharge Pressure Gauge	Dewatering Feed Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-009	PSL-P400DFP005	A	Dewatering Feed Pump No. 5 Suction Low Pressure Switch	Dewatering Feed Pump No. 5 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-009	PI-P400DFP005	C	Dewatering Feed Pump No. 5 Suction Pressure Gauge	Dewatering Feed Pump No. 5 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-009	PSH-P400DFP005	B	Dewatering Feed Pump No. 5 Discharge High Pressure Switch	Dewatering Feed Pump No. 5 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-009	PI-P400DFP005	D	Dewatering Feed Pump No. 5 Discharge Pressure Gauge	Dewatering Feed Pump No. 5 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-010	PSL-P400DFP006	A	Dewatering Feed Pump No. 6 Suction Low Pressure Switch	Dewatering Feed Pump No. 6 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-010	PI-P400DFP006	C	Dewatering Feed Pump No. 6 Suction Pressure Gauge	Dewatering Feed Pump No. 6 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-010	PSH-P400DFP006	B	Dewatering Feed Pump No. 6 Discharge High Pressure Switch	Dewatering Feed Pump No. 6 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-010	PI-P400DFP006	D	Dewatering Feed Pump No. 6 Discharge Pressure Gauge	Dewatering Feed Pump No. 6 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-010	PSL-P400DFP007	A	Dewatering Feed Pump No. 7 Suction Low Pressure Switch	Dewatering Feed Pump No. 7 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-010	PI-P400DFP007	C	Dewatering Feed Pump No. 7 Suction Pressure Gauge	Dewatering Feed Pump No. 7 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-010	PSH-P400DFP007	B	Dewatering Feed Pump No. 7 Discharge High Pressure Switch	Dewatering Feed Pump No. 7 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-010	PI-P400DFP007	D	Dewatering Feed Pump No. 7 Discharge Pressure Gauge	Dewatering Feed Pump No. 7 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-010	PSL-P400DFP008	A	Dewatering Feed Pump No. 8 Suction Low Pressure Switch	Dewatering Feed Pump No. 8 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-010	PI-P400DFP008	C	Dewatering Feed Pump No. 8 Suction Pressure Gauge	Dewatering Feed Pump No. 8 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-010	PSH-P400DFP008	B	Dewatering Feed Pump No. 8 Discharge High Pressure Switch	Dewatering Feed Pump No. 8 Piping	1/4"	Pressure Switch	--	120 VAC	--	50	psig	40 73 36	E
400-I-010	PI-P400DFP008	D	Dewatering Feed Pump No. 8 Discharge Pressure Gauge	Dewatering Feed Pump No. 8 Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	E
400-I-020	LIT-L400TPS013		Polymer Storage Tank No. 13 Level Transmitter	Polymer Storage Tank No. 13	4"	Radar Level Transmitter	--	4-20 mA	0-6.33	--	ft	40 72 23	A
400-I-020	LSH-L400PMT013	A	Polymer Storage Tank No. 13 High Level Switch	Polymer Storage Tank No. 13	2"	Level Switch	--	120 VAC	--	1.66	ft from Top of Tank	40 72 76	F
400-I-021	LIT-L400PMT011		Polymer Mixing Tank No. 11 Level Transmitter	Polymer Mixing Tank No. 11	4"	Radar Level Transmitter	--	4-20 mA	0-7.25	--	ft	40 72 23	A
400-I-021	LSH-L400PMT011	A	Polymer Mixing Tank No. 11 High Level Switch	Polymer Mixing Tank No. 11	2"	Level Switch	--	120 VAC	--	1.25	ft from Top of Tank	40 72 76	F
400-I-021	LIT-L400PMT012		Polymer Mixing Tank No. 12 Level Transmitter	Polymer Mixing Tank No. 12	4"	Radar Level Transmitter	--	4-20 mA	0-7.25	--	ft	40 72 23	A
400-I-021	LSH-L400PMT012	A	Polymer Mixing Tank No. 12 High Level Switch	Polymer Mixing Tank No. 12	2"	Level Switch	--	120 VAC	--	1.25	ft from Top of Tank	40 72 76	F
400-I-022	PSL-P400PPF011	A	Polymer Feed Pump No. 11 Suction Low Pressure Switch	Polymer Feed Pump No. 11 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-022	PI-P400PPF011	C	Polymer Feed Pump No. 11 Suction Pressure Gauge	Polymer Feed Pump No. 11 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-022	PSH-P400PPF011	B	Polymer Feed Pump No. 11 Discharge High Pressure Switch	Polymer Feed Pump No. 11 Piping	1/4"	Pressure Switch	--	120 VAC	--	70	psig	40 73 36	E
400-I-022	PI-P400PPF011	D	Polymer Feed Pump No. 11 Discharge Pressure Gauge	Polymer Feed Pump No. 11 Piping	1/2"	Pressure Gauge	--	--	0-120	--	psig	40 73 13	E
400-I-022	FIT-F400TGB001	B	Gravity Belt Thickener No. 1 Polymer Feed Flow	Gravity Belt Thickener No. 1 Polymer Piping	1"	Magnetic Flow Meter	120 VAC	4-20 mA	0-50	--	gpm	40 71 13	D
400-I-022	FSL-V400TGB001		Gravity Belt Thickener No. 1 Polymer Feed Post Dilution Low Flow Switch	Gravity Belt Thickener No. 1 Polymer Dilution Water Piping	1-1/2"	Flow Switch	--	120 VAC	--	7	gpm	40 71 79	--
400-I-022	FI-F400TGB001	C	Gravity Belt Thickener No. 1 Polymer Feed Post Dilution Rotameter	Gravity Belt Thickener No. 1 Polymer Dilution Water Piping	1"	Variable Area Flow Meter	--	--	0-25	--	gpm	40 71 43	--
400-I-022	PI-P400TGB001		Gravity Belt Thickener No. 1 Polymer Feed Post Dilution Pressure Gauge	Gravity Belt Thickener No. 1 Polymer Dilution Water Piping	1/2"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	H
400-I-022	PSL-P400PPF012	A	Polymer Feed Pump No. 12 Suction Low Pressure Switch	Polymer Feed Pump No. 12 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-022	PI-P400PPF012	C	Polymer Feed Pump No. 12 Suction Pressure Gauge	Polymer Feed Pump No. 12 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-022	PSH-P400PPF012	B	Polymer Feed Pump No. 12 Discharge High Pressure Switch	Polymer Feed Pump No. 12 Piping	1/4"	Pressure Switch	--	120 VAC	--	70	psig	40 73 36	E
400-I-022	PI-P400PPF012	D	Polymer Feed Pump No. 12 Discharge Pressure Gauge	Polymer Feed Pump No. 12 Piping	1/2"	Pressure Gauge	--	--	0-120	--	psig	40 73 13	E
400-I-022	FIT-F400TGB002	B	Gravity Belt Thickener No. 2 Polymer Feed Flow	Gravity Belt Thickener No. 2 Polymer Piping	1"	Magnetic Flow Meter	120 VAC	4-20 mA	0-50	--	gpm	40 71 13	D
400-I-022	FSL-V400TGB002		Gravity Belt Thickener No. 2 Polymer Feed Post Dilution Low Flow Switch	Gravity Belt Thickener No. 2 Polymer Dilution Water Piping	1-1/2"	Flow Switch	--	120 VAC	--	7	gpm	40 71 79	--
400-I-022	FI-F400TGB002	C	Gravity Belt Thickener No. 2 Polymer Feed Post Dilution Rotameter	Gravity Belt Thickener No. 2 Polymer Dilution Water Piping	1"	Variable Area Flow Meter	--	--	0-25	--	gpm	40 71 43	--
400-I-022	PI-P400TGB002		Gravity Belt Thickener No. 2 Polymer Feed Post Dilution Pressure Gauge	Gravity Belt Thickener No. 2 Polymer Dilution Water Piping	1/2"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	H
400-I-022	PSL-P400PPF013	A	Polymer Feed Pump No. 13 Suction Low Pressure Switch	Polymer Feed Pump No. 13 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-022	PI-P400PPF013	C	Polymer Feed Pump No. 13 Suction Pressure Gauge	Polymer Feed Pump No. 13 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-022	PSH-P400PPF013	B	Polymer Feed Pump No. 13 Discharge High Pressure Switch	Polymer Feed Pump No. 13 Piping	1/4"	Pressure Switch	--	120 VAC	--	70	psig	40 73 36	E
400-I-022	PI-P400PPF013	D	Polymer Feed Pump No. 13 Discharge Pressure Gauge	Polymer Feed Pump No. 13 Piping	1/2"	Pressure Gauge	--	--	0-120	--	psig	40 73 13	E

SECTION 407000 APPENDIX A: FIELD INSTRUMENT SCHEDULE

P&ID No.	ISA Tag and Loop No.	Loop Suffix	Description	Location	Size	Type	Power	Signal	Range	Setpoint	Units	Spec	Install Detail
400-I-022	FIT-F400TGB003	B	Gravity Belt Thickener No. 3 Polymer Feed Flow	Gravity Belt Thickener No. 3 Polymer Piping	1"	Magnetic Flow Meter	120 VAC	4-20 mA	0-50	--	gpm	40 71 13	D
400-I-022	FSL-V400TGB003		Gravity Belt Thickener No. 3 Polymer Feed Post Dilution Low Flow Switch	Gravity Belt Thickener No. 3 Polymer Dilution Water Piping	1-1/2"	Flow Switch	--	120 VAC	--	7	gpm	40 71 79	--
400-I-022	FI-F400TGB003	C	Gravity Belt Thickener No. 3 Polymer Feed Post Dilution Rotameter	Gravity Belt Thickener No. 3 Polymer Dilution Water Piping	1"	Variable Area Flow Meter	--	--	0-25	--	gpm	40 71 43	--
400-I-022	PI-P400TGB003		Gravity Belt Thickener No. 3 Polymer Feed Post Dilution Pressure Gauge	Gravity Belt Thickener No. 3 Polymer Dilution Water Piping	1/2"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	H
400-I-022	PSL-P400PPF014	A	Polymer Feed Pump No. 14 Suction Low Pressure Switch	Polymer Feed Pump No. 14 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-022	PI-P400PPF014	C	Polymer Feed Pump No. 14 Suction Pressure Gauge	Polymer Feed Pump No. 14 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-022	PSH-P400PPF014	B	Polymer Feed Pump No. 14 Discharge High Pressure Switch	Polymer Feed Pump No. 14 Piping	1/4"	Pressure Switch	--	120 VAC	--	70	psig	40 73 36	E
400-I-022	PI-P400PPF014	D	Polymer Feed Pump No. 14 Discharge Pressure Gauge	Polymer Feed Pump No. 14 Piping	1/2"	Pressure Gauge	--	--	0-120	--	psig	40 73 13	E
400-I-022	FIT-F400TGB004	B	Gravity Belt Thickener No. 4 Polymer Feed Flow	Gravity Belt Thickener No. 4 Polymer Piping	1"	Magnetic Flow Meter	120 VAC	4-20 mA	0-50	--	gpm	40 71 13	D
400-I-022	FSL-V400TGB004		Gravity Belt Thickener No. 4 Polymer Feed Post Dilution Low Flow Switch	Gravity Belt Thickener No. 4 Polymer Dilution Water Piping	1-1/2"	Flow Switch	--	120 VAC	--	7	gpm	40 71 79	--
400-I-022	FI-F400TGB004	C	Gravity Belt Thickener No. 4 Polymer Feed Post Dilution Rotameter	Gravity Belt Thickener No. 4 Polymer Dilution Water Piping	1"	Variable Area Flow Meter	--	--	0-25	--	gpm	40 71 43	--
400-I-022	PI-P400TGB004		Gravity Belt Thickener No. 4 Polymer Feed Post Dilution Pressure Gauge	Gravity Belt Thickener No. 4 Polymer Dilution Water Piping	1/2"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	H
400-I-023	PSL-P400PPF015	A	Polymer Feed Pump No. 15 Suction Low Pressure Switch	Polymer Feed Pump No. 15 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-023	PI-P400PPF015	C	Polymer Feed Pump No. 15 Suction Pressure Gauge	Polymer Feed Pump No. 15 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-023	PSH-P400PPF015	B	Polymer Feed Pump No. 15 Discharge High Pressure Switch	Polymer Feed Pump No. 15 Piping	1/4"	Pressure Switch	--	120 VAC	--	70	psig	40 73 36	E
400-I-023	PI-P400PPF015	D	Polymer Feed Pump No. 15 Discharge Pressure Gauge	Polymer Feed Pump No. 15 Piping	1/2"	Pressure Gauge	--	--	0-120	--	psig	40 73 13	E
400-I-023	FIT-F400TGB005	B	Gravity Belt Thickener No. 5 Polymer Feed Flow	Gravity Belt Thickener No. 5 Polymer Piping	1"	Magnetic Flow Meter	120 VAC	4-20 mA	0-50	--	gpm	40 71 13	D
400-I-023	FSL-V400TGB005		Gravity Belt Thickener No. 5 Polymer Feed Post Dilution Low Flow Switch	Gravity Belt Thickener No. 5 Polymer Dilution Water Piping	1-1/2"	Flow Switch	--	120 VAC	--	7	gpm	40 71 79	--
400-I-023	FI-F400TGB005	C	Gravity Belt Thickener No. 5 Polymer Feed Post Dilution Rotameter	Gravity Belt Thickener No. 5 Polymer Dilution Water Piping	1"	Variable Area Flow Meter	--	--	0-25	--	gpm	40 71 43	--
400-I-023	PI-P400TGB005		Gravity Belt Thickener No. 5 Polymer Feed Post Dilution Pressure Gauge	Gravity Belt Thickener No. 5 Polymer Dilution Water Piping	1/2"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	H
400-I-023	PSL-P400PPF016	A	Polymer Feed Pump No. 16 Suction Low Pressure Switch	Polymer Feed Pump No. 16 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-023	PI-P400PPF016	C	Polymer Feed Pump No. 16 Suction Pressure Gauge	Polymer Feed Pump No. 16 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-023	PSH-P400PPF016	B	Polymer Feed Pump No. 16 Discharge High Pressure Switch	Polymer Feed Pump No. 16 Piping	1/4"	Pressure Switch	--	120 VAC	--	70	psig	40 73 36	E
400-I-023	PI-P400PPF016	D	Polymer Feed Pump No. 16 Discharge Pressure Gauge	Polymer Feed Pump No. 16 Piping	1/2"	Pressure Gauge	--	--	0-120	--	psig	40 73 13	E
400-I-023	FIT-F400TGB006	B	Gravity Belt Thickener No. 6 Polymer Feed Flow	Gravity Belt Thickener No. 6 Polymer Piping	1"	Magnetic Flow Meter	120 VAC	4-20 mA	0-50	--	gpm	40 71 13	D
400-I-023	FSL-V400TGB006		Gravity Belt Thickener No. 6 Polymer Feed Post Dilution Low Flow Switch	Gravity Belt Thickener No. 6 Polymer Dilution Water Piping	1-1/2"	Flow Switch	--	120 VAC	--	7	gpm	40 71 79	--
400-I-023	FI-F400TGB006	C	Gravity Belt Thickener No. 6 Polymer Feed Post Dilution Rotameter	Gravity Belt Thickener No. 6 Polymer Dilution Water Piping	1"	Variable Area Flow Meter	--	--	0-25	--	gpm	40 71 43	--
400-I-023	PI-P400TGB006		Gravity Belt Thickener No. 6 Polymer Feed Post Dilution Pressure Gauge	Gravity Belt Thickener No. 6 Polymer Dilution Water Piping	1/2"	Pressure Gauge	--	--	0-160	--	psig	40 73 13	H
400-I-023	PSL-P400PPF017	A	Polymer Feed Pump No. 17 Suction Low Pressure Switch	Polymer Feed Pump No. 17 Piping	1/4"	Pressure Switch	--	120 VAC	--	15	inHg	40 73 36	E
400-I-023	PI-P400PPF017	C	Polymer Feed Pump No. 17 Suction Pressure Gauge	Polymer Feed Pump No. 17 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	E
400-I-023	PSH-P400PPF017	B	Polymer Feed Pump No. 17 Discharge High Pressure Switch	Polymer Feed Pump No. 17 Piping	1/4"	Pressure Switch	--	120 VAC	--	70	psig	40 73 36	E
400-I-023	PI-P400PPF017	D	Polymer Feed Pump No. 17 Discharge Pressure Gauge	Polymer Feed Pump No. 17 Piping	1/2"	Pressure Gauge	--	--	0-120	--	psig	40 73 13	E
400-I-028	PI-P400SSH001		Thickener Feed Pump Seal Water Header Pressure Gauge	Seal Water Header	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
400-I-028	PI-P400SSH002		Thickener Feed Pump Seal Water Header Pressure Gauge	Seal Water Header	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
400-I-037	AE-A400FVE001	A	Dewatering Building Odor Control Fan Room Hydrogen Sulfide Sensor	Odor Control Fan Room	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-037	AE-A400FVE001	B	Dewatering Building Odor Control Fan Room LEL Sensor	Odor Control Fan Room	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G
400-I-037	AI-A400FVE001		Dewatering Building Odor Control Fan Room Gas Transmitter	Odor Control Fan Room	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
400-I-037	AE-A400HVF001	A	Dewatering Building Mechanical Room Hydrogen Sulfide Sensor	Mechanical Room	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-037	AE-A400HVF001	B	Dewatering Building Mechanical Room LEL Sensor	Mechanical Room	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G
400-I-037	AI-A400HVF001		Dewatering Building Mechanical Room Gas Transmitter	Mechanical Room	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
400-I-037	AE-A400TFT001	A	Dewatering Building Thickening Feed Tank Gallery Hydrogen Sulfide Sensor	Thickening Feed Tank Gallery	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-037	AE-A400TFT001	B	Dewatering Building Thickening Feed Tank Gallery LEL Sensor	Thickening Feed Tank Gallery	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G
400-I-037	AI-A400TFT001		Dewatering Building Thickening Feed Tank Gallery Gas Transmitter	Thickening Feed Tank Gallery	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
400-I-037	AE-A400DFT001	A	Dewatering Building Dewatering Feed Tank Gallery Hydrogen Sulfide Sensor	Dewatering Feed Tank Gallery	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-037	AE-A400DFT001	B	Dewatering Building Dewatering Feed Tank Gallery LEL Sensor	Dewatering Feed Tank Gallery	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G
400-I-037	AI-A400DFT001		Dewatering Building Dewatering Feed Tank Gallery Gas Transmitter	Dewatering Feed Tank Gallery	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
400-I-037	AE-A400DFP001	A	Dewatering Building Dewatering Feed Pump Area Hydrogen Sulfide Sensor	Dewatering Feed Pump Area	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-037	AE-A400DFP001	B	Dewatering Building Dewatering Feed Pump Area LEL Sensor	Dewatering Feed Pump Area	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G
400-I-037	AI-A400DFP001		Dewatering Building Dewatering Feed Pump Area Gas Transmitter	Dewatering Feed Pump Area	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
400-I-037	AE-A400EFF001	A	Dewatering Building Exhaust Fan Area Hydrogen Sulfide Sensor	Exhaust Fan Area	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-037	AE-A400EFF001	B	Dewatering Building Exhaust Fan Area LEL Sensor	Exhaust Fan Area	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G
400-I-037	AI-A400EFF001		Dewatering Building Exhaust Fan Area Gas Transmitter	Exhaust Fan Area	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
400-I-038	AE-A400TFM001	A	Dewat Bldg Thickening Feed Tank Mixer Room Hydrogen Sulfide Sensor	Thickening Feed Tank Second Floor Gallery	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-038	AE-A400TFM001	B	Dewat Bldg Thickening Feed Tank Mixer Room LEL Sensor	Thickening Feed Tank Second Floor Gallery	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G
400-I-038	AI-A400TFM001		Dewat Bldg Thickening Feed Tank Mixer Gas Transmitter	Thickening Feed Tank Second Floor Gallery	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
400-I-038	AE-A400DSM001	A	Dewat Bldg Dewatering Feed Tank Second Floor Gallery Hydrogen Sulfide Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-038	AE-A400DSM001	B	Dewat Bldg Dewatering Feed Tank Second Floor Gallery LEL Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G
400-I-038	AI-A400DSM001		Dewat Bldg Dewatering Feed Second Floor Gallery Gas Transmitter	Dewatering Feed Tank Mixer Room	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
400-I-038	AE-A400HSC001	A	Dewatering Building Centrifuge Conveyor Area Hydrogen Sulfide Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-038	AE-A400HSC001	B	Dewatering Building Centrifuge Area Hydrogen Sulfide Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-038	AE-A400HSC001	C	Dewatering Building Centrifuge Area LEL Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G

SECTION 407000 APPENDIX A: FIELD INSTRUMENT SCHEDULE

P&ID No.	ISA Tag and Loop No.	Loop Suffix	Description	Location	Size	Type	Power	Signal	Range	Setpoint	Units	Spec	Install Detail
400-I-038	AI-A400HSC001		Dewatering Building Centrifuge Area Gas Transmitter	Dewatering Feed Tank Mixer Room	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
400-I-038	AE-A400TGB001	A	Dewatering Building Thickened Sludge Sump Area Hydrogen Sulfide Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-038	AE-A400TGB001	B	Dewatering Building GBT Area Hydrogen Sulfide Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-038	AE-A400TGB001	C	Dewatering Building GBT Area LEL Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G
400-I-038	AI-A400TGB001		Dewatering Building GBT Area Gas Transmitter	Dewatering Feed Tank Mixer Room	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
400-I-038	AE-A400HSC002	A	Dewatering Building Centrifuge Area Hydrogen Sulfide Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-038	AE-A400HSC002	B	Dewatering Building Centrifuge Area LEL Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G
400-I-038	AI-A400HSC002		Dewatering Building Centrifuge Area Gas Transmitter	Dewatering Feed Tank Mixer Room	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
400-I-038	AE-A400TGB002	A	Dewatering Building GBT Area Hydrogen Sulfide Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-50	--	ppm	40 76 33	G
400-I-038	AE-A400TGB002	B	Dewatering Building GBT Area LEL Sensor	Dewatering Feed Tank Mixer Room	--	Gas Sensor	--	--	0-100	--	% LEL	40 76 23	G
400-I-038	AI-A400TGB002		Dewatering Building GBT Area Gas Transmitter	Dewatering Feed Tank Mixer Room	--	Gas Transmitter	120 VAC	4-20 mA	0-50 0-100	--	ppm % LEL	40 76 23	I
701-I-001	PI-P701PPS005	C	Primary Sludge Pump Station Seal Water Pressure Regulator Outlet Pressure Gauge	Primary Sludge Pump Station Seal Water Header	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
701-I-001	PI-P701PPS001	A	Primary Sludge Pump No. 1 (W-1) Suction Pressure Gauge	Primary Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
701-I-001	PI-P701PPS001	B	Primary Sludge Pump No. 1 (W-1) Discharge Pressure Gauge	Primary Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
701-I-001	FSL-F701PPS001	A	Primary Sludge Pump No. 1 (W-1) Seal Water Low Flow Switch	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
701-I-001	FI-F701PPS001	B	Primary Sludge Pump No. 1 (W-1) Seal Water Rotameter	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
701-I-001	PI-P701PPS001	C	Primary Sludge Pump No. 1 (W-1) Seal Water Pressure Gauge	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
701-I-001	PI-P701PPS002	A	Primary Sludge Pump No. 2 (W-1) Suction Pressure Gauge	Primary Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
701-I-001	PI-P701PPS002	B	Primary Sludge Pump No. 2 (W-1) Discharge Pressure Gauge	Primary Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
701-I-001	FSL-F701PPS002	A	Primary Sludge Pump No. 2 (W-1) Seal Water Low Flow Switch	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
701-I-001	FI-F701PPS002	B	Primary Sludge Pump No. 2 (W-1) Seal Water Rotameter	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
701-I-001	PI-P701PPS002	C	Primary Sludge Pump No. 2 (W-2) Seal Water Pressure Gauge	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
701-I-001	PI-P701PPS003	A	Primary Sludge Pump No. 3 (W-1) Suction Pressure Gauge	Primary Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
701-I-001	PI-P701PPS003	B	Primary Sludge Pump No. 3 (W-1) Discharge Pressure Gauge	Primary Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
701-I-001	FSL-F701PPS003	A	Primary Sludge Pump No. 3 (W-1) Seal Water Low Flow Switch	Primary Sludge Pump No. 3 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
701-I-001	FI-F701PPS003	B	Primary Sludge Pump No. 3 (W-1) Seal Water Rotameter	Primary Sludge Pump No. 3 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
701-I-001	PI-P701PPS003	C	Primary Sludge Pump No. 3 (W-1) Seal Water Pressure Gauge	Primary Sludge Pump No. 3 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
701-I-001	PI-P701PPS004	A	Primary Sludge Pump No. 4 (W-1) Suction Pressure Gauge	Primary Sludge Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
701-I-001	PI-P701PPS004	B	Primary Sludge Pump No. 4 (W-1) Discharge Pressure Gauge	Primary Sludge Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
701-I-001	FSL-F711PPS004	A	Primary Sludge Pump No. 4 (W-1) Seal Water Low Flow Switch	Primary Sludge Pump No. 4 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
701-I-001	FI-F701PPS004	B	Primary Sludge Pump No. 4 (W-1) Seal Water Rotameter	Primary Sludge Pump No. 4 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
701-I-001	PI-P701PPS004	C	Primary Sludge Pump No. 4 (W-1) Seal Water Pressure Gauge	Primary Sludge Pump No. 4 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
702-I-001	PI-P702PPS004	C	Primary Sludge Pump Station Seal Water Pressure Regulator Outlet Pressure Gauge	Primary Sludge Pump Station Seal Water Header	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
702-I-001	PI-P702PPS001	A	Primary Sludge Pump No. 1 (W-2) Suction Pressure Gauge	Primary Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
702-I-001	PI-P702PPS001	B	Primary Sludge Pump No. 1 (W-2) Discharge Pressure Gauge	Primary Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
702-I-001	FSL-F702PPS001	A	Primary Sludge Pump No. 1 (W-2) Seal Water Low Flow Switch	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
702-I-001	FI-F702PPS001	B	Primary Sludge Pump No. 1 (W-2) Seal Water Rotameter	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
702-I-001	PI-P701PPS001	C	Primary Sludge Pump No. 1 (W-2) Seal Water Pressure Gauge	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
702-I-001	PI-P702PPS002	A	Primary Sludge Pump No. 2 (W-2) Suction Pressure Gauge	Primary Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
702-I-001	PI-P702PPS002	B	Primary Sludge Pump No. 2 (W-2) Discharge Pressure Gauge	Primary Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
702-I-001	FSL-F702PPS002	A	Primary Sludge Pump No. 2 (W-2) Seal Water Low Flow Switch	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
702-I-001	FI-F702PPS002	B	Primary Sludge Pump No. 2 (W-2) Seal Water Rotameter	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
702-I-001	PI-P701PPS002	C	Primary Sludge Pump No. 2 (W-2) Seal Water Pressure Gauge	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
702-I-001	PI-P702PPS003	A	Primary Sludge Pump No. 3 (W-2) Suction Pressure Gauge	Primary Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
702-I-001	PI-P702PPS003	B	Primary Sludge Pump No. 3 (W-2) Discharge Pressure Gauge	Primary Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
702-I-001	FSL-F702PPS003	A	Primary Sludge Pump No. 3 (W-2) Seal Water Low Flow Switch	Primary Sludge Pump No. 3 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
702-I-001	FI-F702PPS003	B	Primary Sludge Pump No. 3 (W-2) Seal Water Rotameter	Primary Sludge Pump No. 3 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
702-I-001	PI-P701PPS003	C	Primary Sludge Pump No. 3 (W-2) Seal Water Pressure Gauge	Primary Sludge Pump No. 3 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
711-I-001	PI-P711PPS005	C	Primary Sludge Pump Station Seal Water Pressure Regulator Outlet Pressure Gauge	Primary Sludge Pump Station Seal Water Header	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
711-I-001	PI-P711PPS001	A	Primary Sludge Pump No. 1 (E-1) Suction Pressure Gauge	Primary Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
711-I-001	PI-P711PPS001	B	Primary Sludge Pump No. 1 (E-1) Discharge Pressure Gauge	Primary Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
711-I-001	FSL-F711PPS001	A	Primary Sludge Pump No. 1 (E-1) Seal Water Low Flow Switch	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
711-I-001	FI-F711PPS001	B	Primary Sludge Pump No. 1 (E-1) Seal Water Rotameter	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
711-I-001	PI-P711PPS001	C	Primary Sludge Pump No. 1 (E-1) Seal Water Pressure Gauge	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
711-I-001	PI-P711PPS002	A	Primary Sludge Pump No. 2 (E-1) Suction Pressure Gauge	Primary Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
711-I-001	PI-P711PPS002	B	Primary Sludge Pump No. 2 (E-1) Discharge Pressure Gauge	Primary Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
711-I-001	FSL-F711PPS002	A	Primary Sludge Pump No. 2 (E-1) Seal Water Low Flow Switch	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
711-I-001	FI-F711PPS002	B	Primary Sludge Pump No. 2 (E-1) Seal Water Rotameter	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
711-I-001	PI-P711PPS002	C	Primary Sludge Pump No. 2 (E-1) Seal Water Pressure Gauge	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
711-I-001	PI-P711PPS003	A	Primary Sludge Pump No. 3 (E-1) Suction Pressure Gauge	Primary Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
711-I-001	PI-P711PPS003	B	Primary Sludge Pump No. 3 (E-1) Discharge Pressure Gauge	Primary Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
711-I-001	FSL-F711PPS003	A	Primary Sludge Pump No. 3 (E-1) Seal Water Low Flow Switch	Primary Sludge Pump No. 3 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
711-I-001	FI-F711PPS003	B	Primary Sludge Pump No. 3 (E-1) Seal Water Rotameter	Primary Sludge Pump No. 3 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
711-I-001	PI-P711PPS003	C	Primary Sludge Pump No. 3 (E-1) Seal Water Pressure Gauge	Primary Sludge Pump No. 3 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
711-I-001	PI-P711PPS004	A	Primary Sludge Pump No. 4 (E-1) Suction Pressure Gauge	Primary Sludge Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
711-I-001	PI-P711PPS004	B	Primary Sludge Pump No. 4 (E-1) Discharge Pressure Gauge	Primary Sludge Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B

SECTION 407000 APPENDIX A: FIELD INSTRUMENT SCHEDULE

P&ID No.	ISA Tag and Loop No.	Loop Suffix	Description	Location	Size	Type	Power	Signal	Range	Setpoint	Units	Spec	Install Detail
711-I-001	FSL-F711PPS004	A	Primary Sludge Pump No. 4 (E-1) Seal Water Low Flow Switch	Primary Sludge Pump No. 4 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
711-I-001	FI-F711PPS004	B	Primary Sludge Pump No. 4 (E-1) Seal Water Rotameter	Primary Sludge Pump No. 4 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
711-I-001	PI-P711PPS004	C	Primary Sludge Pump No. 4 (E-1) Seal Water Pressure Gauge	Primary Sludge Pump No. 4 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
712-I-001	PI-P712PPS003	C	Primary Sludge Pump Station Seal Water Pressure Regulator Outlet Pressure Gauge	Primary Sludge Pump Station Seal Water Header	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
712-I-001	PI-P712PPS001	A	Primary Sludge Pump No. 1 (E-2) Suction Pressure Gauge	Primary Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
712-I-001	PI-P712PPS001	B	Primary Sludge Pump No. 1 (E-2) Discharge Pressure Gauge	Primary Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
712-I-001	FSL-F712PPS001	A	Primary Sludge Pump No. 1 (E-2) Seal Water Low Flow Switch	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
712-I-001	FI-F712PPS001	B	Primary Sludge Pump No. 1 (E-2) Seal Water Rotameter	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
712-I-001	PI-P712PPS001	C	Primary Sludge Pump No. 1 (E-2) Seal Water Pressure Gauge	Primary Sludge Pump No. 1 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
712-I-001	PI-P712PPS002	A	Primary Sludge Pump No. 2 (E-2) Suction Pressure Gauge	Primary Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
712-I-001	PI-P712PPS002	B	Primary Sludge Pump No. 2 (E-2) Discharge Pressure Gauge	Primary Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
712-I-001	FSL-F712PPS002	A	Primary Sludge Pump No. 2 (E-2) Seal Water Low Flow Switch	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
712-I-001	FI-F712PPS002	B	Primary Sludge Pump No. 2 (E-2) Seal Water Rotameter	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
712-I-001	PI-P711PPS002	C	Primary Sludge Pump No. 2 (E-2) Seal Water Pressure Gauge	Primary Sludge Pump No. 2 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
821-I-001	PI-P821WSP007	C	WAS Pump Station Seal Water Pressure Regulator Outlet Pressure Gauge	WAS Sludge Pump Station Seal Water Header	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
821-I-001	PI-P821WSP001	A	Waste Sludge Pump No. 1 (E-1) Suction Pressure Gauge	Waste Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
821-I-001	PI-P821WSP001	B	Waste Sludge Pump No. 1 (E-1) Discharge Pressure Gauge	Waste Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
821-I-001	FSL-F821WSP001	A	Waste Sludge Pump No. 1 (E-1) Seal Water Low Flow Switch	Waste Sludge Pump No. 1 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
821-I-001	FI-F821WSP001	B	Waste Sludge Pump No. 1 (E-1) Seal Water Rotameter	Waste Sludge Pump No. 1 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
821-I-001	PI-P821WSP001	C	Waste Sludge Pump No. 1 (E-1) Seal Water Pressure Gauge	Waste Sludge Pump No. 1 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
821-I-001	PI-P821WSP002	A	Waste Sludge Pump No. 2 (E-1) Suction Pressure Gauge	Waste Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
821-I-001	PI-P821WSP002	B	Waste Sludge Pump No. 2 (E-1) Discharge Pressure Gauge	Waste Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
821-I-001	FSL-F821WSP002	A	Waste Sludge Pump No. 2 (E-1) Seal Water Low Flow Switch	Waste Sludge Pump No. 2 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
821-I-001	FI-F821WSP002	B	Waste Sludge Pump No. 2 (E-1) Seal Water Rotameter	Waste Sludge Pump No. 2 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
821-I-001	PI-P821WSP002	C	Waste Sludge Pump No. 2 (E-1) Seal Water Pressure Gauge	Waste Sludge Pump No. 2 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
821-I-001	PI-P821WSP003	A	Waste Sludge Pump No. 3 (E-1) Suction Pressure Gauge	Waste Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
821-I-001	PI-P821WSP003	B	Waste Sludge Pump No. 3 (E-1) Discharge Pressure Gauge	Waste Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
821-I-001	FSL-F821WSP003	A	Waste Sludge Pump No. 3 (E-1) Seal Water Low Flow Switch	Waste Sludge Pump No. 3 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
821-I-001	FI-F821WSP003	B	Waste Sludge Pump No. 3 (E-1) Seal Water Rotameter	Waste Sludge Pump No. 3 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
821-I-001	PI-P821WSP003	C	Waste Sludge Pump No. 3 (E-1) Seal Water Pressure Gauge	Waste Sludge Pump No. 3 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
821-I-002	PI-P821WSP008	C	WAS Pump Station Seal Water Pressure Regulator Outlet Pressure Gauge	WAS Sludge Pump Station Seal Water Header	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
821-I-002	PI-P821WSP004	A	Waste Sludge Pump No. 4 (E-2) Suction Pressure Gauge	Waste Sludge Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
821-I-002	PI-P821WSP004	B	Waste Sludge Pump No. 4 (E-2) Discharge Pressure Gauge	Waste Sludge Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
821-I-002	FSL-F821WSP004	A	Waste Sludge Pump No. 4 (E-2) Seal Water Low Flow Switch	Waste Sludge Pump No. 4 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
821-I-002	FI-F821WSP004	B	Waste Sludge Pump No. 4 (E-2) Seal Water Rotameter	Waste Sludge Pump No. 4 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
821-I-002	PI-P821WSP004	C	Waste Sludge Pump No. 4 (E-2) Seal Water Pressure Gauge	Waste Sludge Pump No. 4 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
821-I-002	PI-P821WSP005	A	Waste Sludge Pump No. 5 (E-2) Suction Pressure Gauge	Waste Sludge Pump No. 5 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
821-I-002	PI-P821WSP005	B	Waste Sludge Pump No. 5 (E-2) Discharge Pressure Gauge	Waste Sludge Pump No. 5 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
821-I-002	FSL-F821WSP005	A	Waste Sludge Pump No. 5 (E-2) Seal Water Low Flow Switch	Waste Sludge Pump No. 5 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
821-I-002	FI-F821WSP005	B	Waste Sludge Pump No. 5 (E-2) Seal Water Rotameter	Waste Sludge Pump No. 5 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
821-I-002	PI-P821WSP005	C	Waste Sludge Pump No. 5 (E-2) Seal Water Pressure Gauge	Waste Sludge Pump No. 5 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
821-I-002	PI-P821WSP006	A	Waste Sludge Pump No. 6 (E-2) Suction Pressure Gauge	Waste Sludge Pump No. 6 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
821-I-002	PI-P821WSP006	B	Waste Sludge Pump No. 6 (E-2) Discharge Pressure Gauge	Waste Sludge Pump No. 6 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
821-I-002	FSL-F821WSP006	A	Waste Sludge Pump No. 6 (E-2) Seal Water Low Flow Switch	Waste Sludge Pump No. 6 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
821-I-002	FI-F821WSP006	B	Waste Sludge Pump No. 6 (E-2) Seal Water Rotameter	Waste Sludge Pump No. 6 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
821-I-002	PI-P821WSP006	C	Waste Sludge Pump No. 6 (E-2) Seal Water Pressure Gauge	Waste Sludge Pump No. 6 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
831-I-001	PI-P831WSP007	C	WAS Pump Station Seal Water Pressure Regulator Outlet Pressure Gauge	WAS Sludge Pump Station Seal Water Header	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
831-I-001	PI-P831WSP001	A	Waste Sludge Pump No. 1 (W-1) Suction Pressure Gauge	Waste Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
831-I-001	PI-P831WSP001	B	Waste Sludge Pump No. 1 (W-1) Discharge Pressure Gauge	Waste Sludge Pump No. 1 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
831-I-001	FSL-F831WSP001	A	Waste Sludge Pump No. 1 (W-1) Seal Water Low Flow Switch	Waste Sludge Pump No. 1 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
831-I-001	FI-F831WSP001	B	Waste Sludge Pump No. 1 (W-1) Seal Water Rotameter	Waste Sludge Pump No. 1 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
831-I-001	PI-P831WSP001	C	Waste Sludge Pump No. 1 (W-1) Seal Water Pressure Gauge	Waste Sludge Pump No. 1 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
831-I-001	PI-P831WSP002	A	Waste Sludge Pump No. 2 (W-1) Suction Pressure Gauge	Waste Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
831-I-001	PI-P831WSP002	B	Waste Sludge Pump No. 2 (W-1) Discharge Pressure Gauge	Waste Sludge Pump No. 2 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
831-I-001	FSL-F831WSP002	A	Waste Sludge Pump No. 2 (W-1) Seal Water Low Flow Switch	Waste Sludge Pump No. 2 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
831-I-001	FI-F831WSP002	B	Waste Sludge Pump No. 2 (W-1) Seal Water Rotameter	Waste Sludge Pump No. 2 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
831-I-001	PI-P831WSP002	C	Waste Sludge Pump No. 2 (W-1) Seal Water Pressure Gauge	Waste Sludge Pump No. 2 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
831-I-001	PI-P831WSP003	A	Waste Sludge Pump No. 3 (W-1) Suction Pressure Gauge	Waste Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
831-I-001	PI-P831WSP003	B	Waste Sludge Pump No. 3 (W-1) Discharge Pressure Gauge	Waste Sludge Pump No. 3 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
831-I-001	FSL-F831WSP003	A	Waste Sludge Pump No. 3 (W-1) Seal Water Low Flow Switch	Waste Sludge Pump No. 3 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
831-I-001	FI-F831WSP003	B	Waste Sludge Pump No. 3 (W-1) Seal Water Rotameter	Waste Sludge Pump No. 3 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
831-I-001	PI-P831WSP003	C	Waste Sludge Pump No. 3 (W-1) Seal Water Pressure Gauge	Waste Sludge Pump No. 3 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
831-I-002	PI-P831WSP008	C	WAS Pump Station Seal Water Pressure Regulator Outlet Pressure Gauge	WAS Sludge Pump Station Seal Water Header	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
831-I-002	PI-P831WSP004	A	Waste Sludge Pump No. 4 (W-2) Suction Pressure Gauge	Waste Sludge Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
831-I-002	PI-P831WSP004	B	Waste Sludge Pump No. 4 (W-2) Discharge Pressure Gauge	Waste Sludge Pump No. 4 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
831-I-002	FSL-F831WSP004	A	Waste Sludge Pump No. 4 (W-2) Seal Water Low Flow Switch	Waste Sludge Pump No. 4 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
831-I-002	FI-F831WSP004	B	Waste Sludge Pump No. 4 (W-2) Seal Water Rotameter	Waste Sludge Pump No. 4 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
831-I-002	PI-P831WSP004	C	Waste Sludge Pump No. 4 (W-2) Seal Water Pressure Gauge	Waste Sludge Pump No. 4 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
831-I-002	PI-P831WSP005	A	Waste Sludge Pump No. 5 (W-2) Suction Pressure Gauge	Waste Sludge Pump No. 5 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
831-I-002	PI-P831WSP005	B	Waste Sludge Pump No. 5 (W-2) Discharge Pressure Gauge	Waste Sludge Pump No. 5 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B

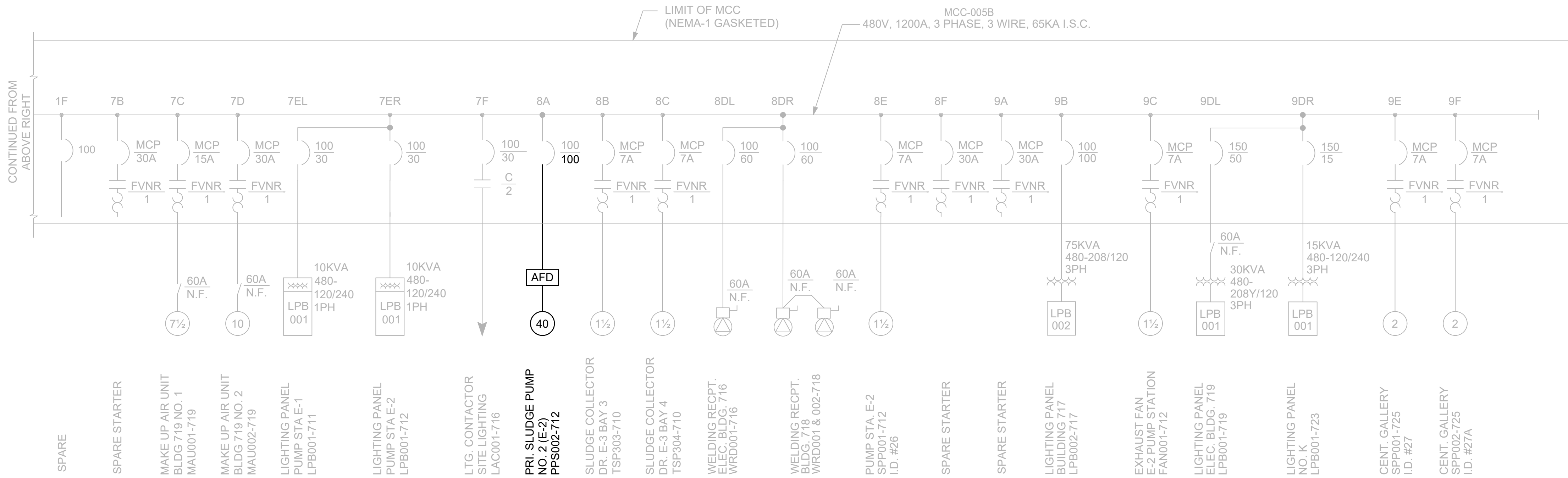
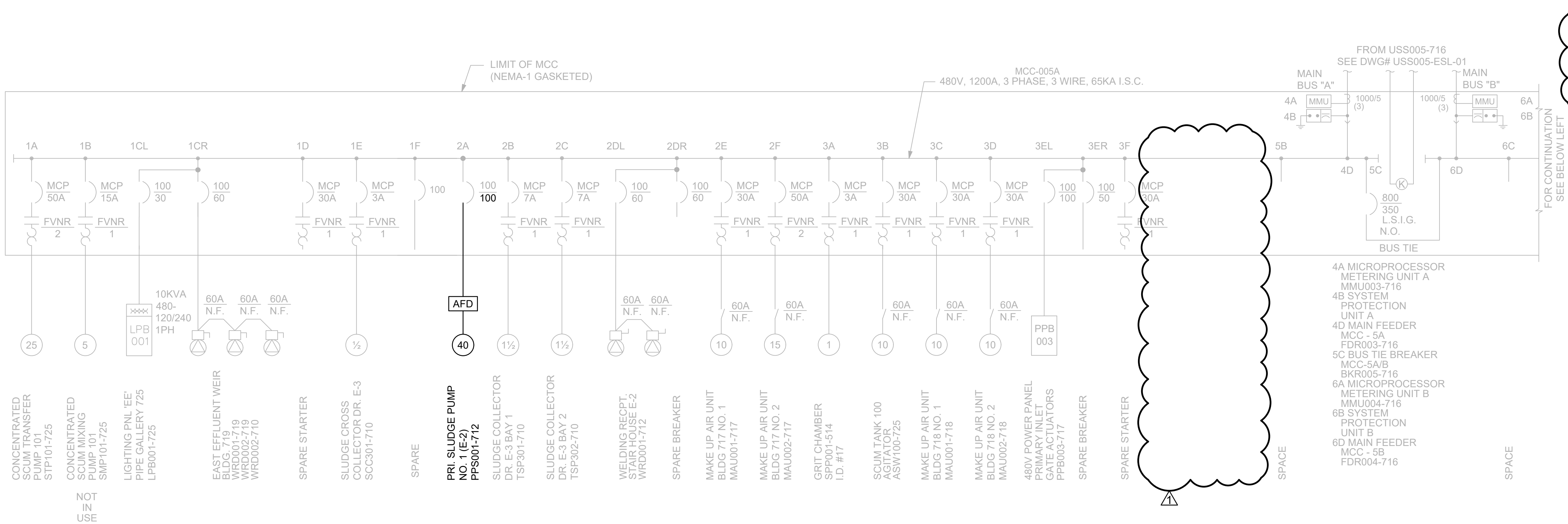
SECTION 407000 APPENDIX A: FIELD INSTRUMENT SCHEDULE

P&ID No.	ISA Tag and Loop No.	Loop Suffix	Description	Location	Size	Type	Power	Signal	Range	Setpoint	Units	Spec	Install Detail
831-I-002	FSL-F831WSP005	A	Waste Sludge Pump No. 5 (W-2) Seal Water Low Flow Switch	Waste Sludge Pump No. 5 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
831-I-002	FI-F831WSP005	B	Waste Sludge Pump No. 5 (W-2) Seal Water Rotameter	Waste Sludge Pump No. 5 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
831-I-002	PI-P831WSP005	C	Waste Sludge Pump No. 5 (W-2) Seal Water Pressure Gauge	Waste Sludge Pump No. 5 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H
831-I-002	PI-P831WSP006	A	Waste Sludge Pump No. 6 (W-2) Suction Pressure Gauge	Waste Sludge Pump No. 6 Piping	1/2"	Pressure Gauge	--	--	Vac.-15	--	psig	40 73 13	B
831-I-002	PI-P831WSP006	B	Waste Sludge Pump No. 6 (W-2) Discharge Pressure Gauge	Waste Sludge Pump No. 6 Piping	1/2"	Pressure Gauge	--	--	0-60	--	psig	40 73 13	B
831-I-002	FSL-F831WSP006	A	Waste Sludge Pump No. 6 (W-2) Seal Water Low Flow Switch	Waste Sludge Pump No. 6 Seal Water Piping	1/2"	Flow Switch	--	120 VAC	--	0.5	gpm	40 71 79	--
831-I-002	FI-F831WSP006	B	Waste Sludge Pump No. 6 (W-2) Seal Water Rotameter	Waste Sludge Pump No. 6 Seal Water Piping	1/2"	Variable Area Flow Meter	--	--	0-2	--	gpm	40 71 43	--
831-I-002	PI-P831WSP006	C	Waste Sludge Pump No. 6 (W-2) Seal Water Pressure Gauge	Waste Sludge Pump No. 6 Seal Water Piping	1/2"	Pressure Gauge	--	--	0-100	--	psig	40 73 13	H

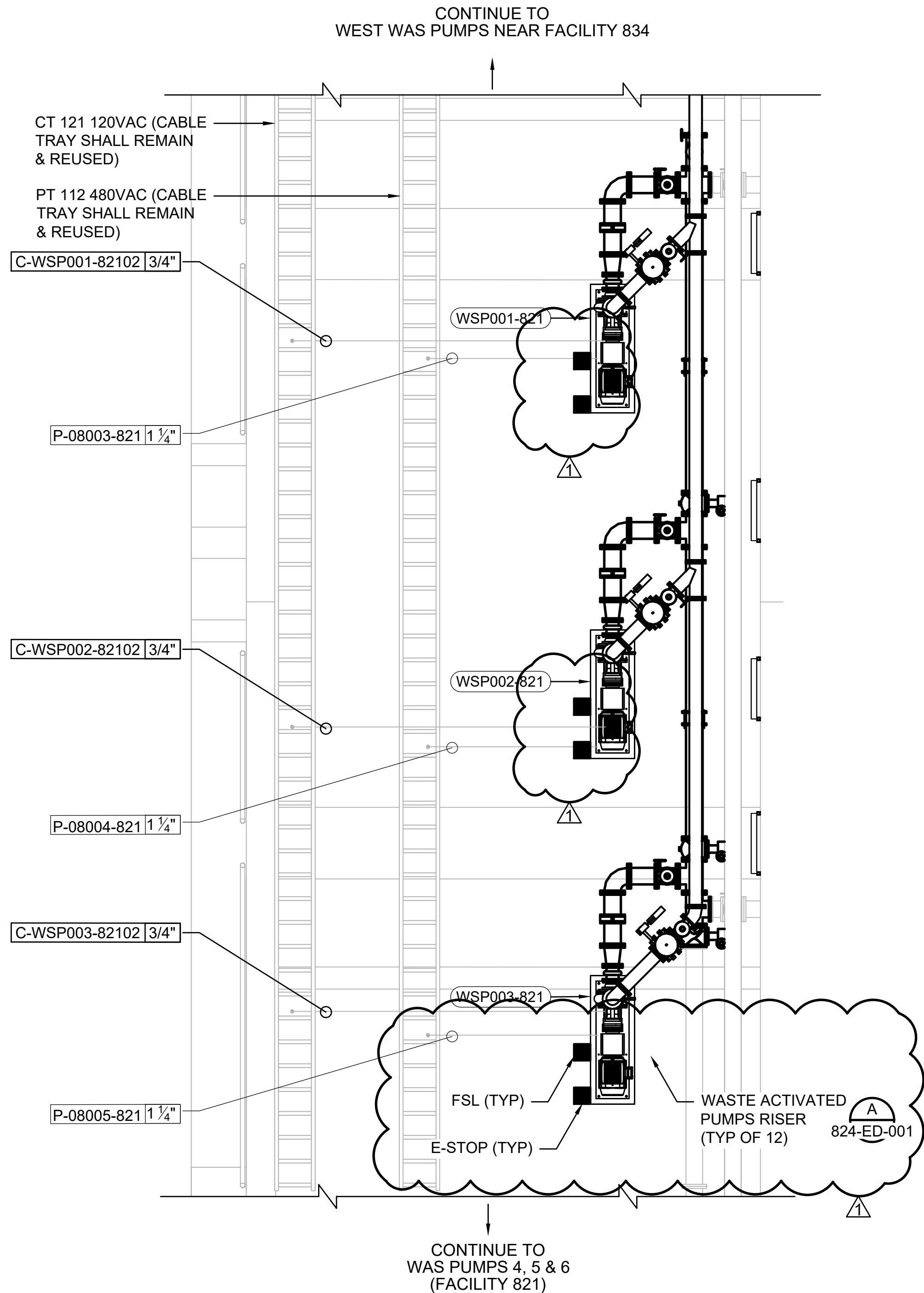
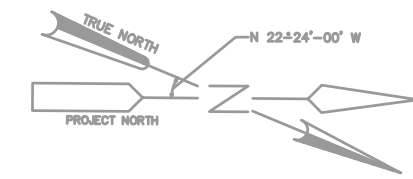
Attachment F

Addendum No. 1 Drawings

(22" x 34" (14 pages))



Designed by: S. VANGALA	REVISION			CDM Smith ONE ALLEGHENY SQUARE NOVA TOWER 1, SUITE 200 PITTSBURGH, PA 15212 TEL: (412) 201-5500			 ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT SOLIDS THICKENING AND DEWATERING IMPROVEMENTS 716-ESL-004 ELECTRICAL MCC005-716 SINGLE LINE	Contract: S-463
Drawn by: N. MADERA	REV No.	DATE	DESCRIPTION						CAD File Name: 716-ESL-004.DWG
Checked by: R. VIJAYENDRAN									Date: 07 / 11 / 2024
									Sheet: 264 of 440



EAST WAS PUMPS FACILITY 821 NEAR EAST AERATION BASINS ELECTRICAL ROOM (FACILITY 824)

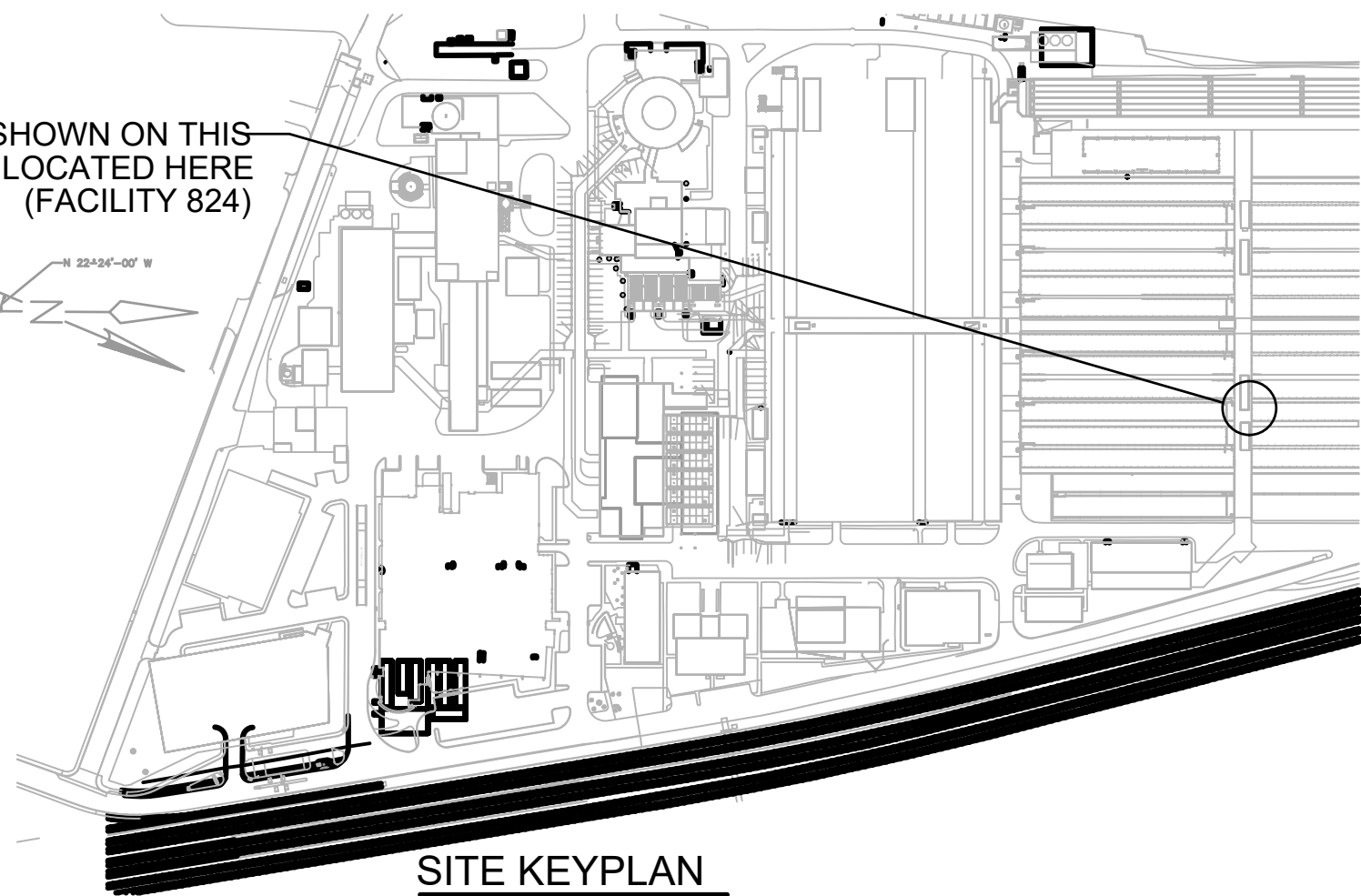
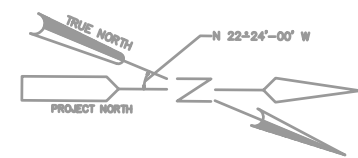
ELECTRICAL POWER PLAN

SCALE: 1/4" = 1'-0"

NOTES:

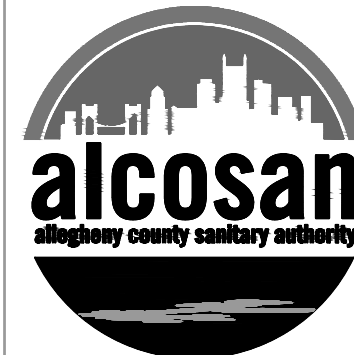
1. REFERENCE DWG G-100 FOR PROJECT AREA ORIENTATION PLAN.
2. E-STOP SHALL BE RED, MUSHROOM TYPE, WITH LOCKABLE MEANS.
3. ALL NEW CONDUITS SHALL BE PVC COATED RIGID CONDUITS.
4. ALL NEW PULL BOXES SHALL BE NEMA 4X TYPE 316 STAINLESS STEEL.
5. DISCONNECT LOCATION & ORIENTATION SHOWN HERE ARE TENTATIVE & FINAL LOCATIONS SHALL BE DETERMINED BY CONTRACTOR PER FIELD CONDITIONS DURING INSTALLATION BY PROVIDING THE NECESSARY WORKING CLEARANCES PER NEC 110.26
6. REFER TO PROCESS MECHANICAL DRAWINGS FOR PUMPS KEY PLAN.

WAS PUMPS SHOWN ON THIS
DRAWING LOCATED HERE
(FACILITY 824)



Designed by:	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
S. VANGALA	1	8/14/24	REVISED PER ADDENDUM 1	
H. CAMACHO				
R. VIJAYENDRAN				

**CDM
Smith**
ONE ALLEGHENY SQUARE
NOVA TOWER 1, SUITE 200
PITTSBURGH, PA 15212
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ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

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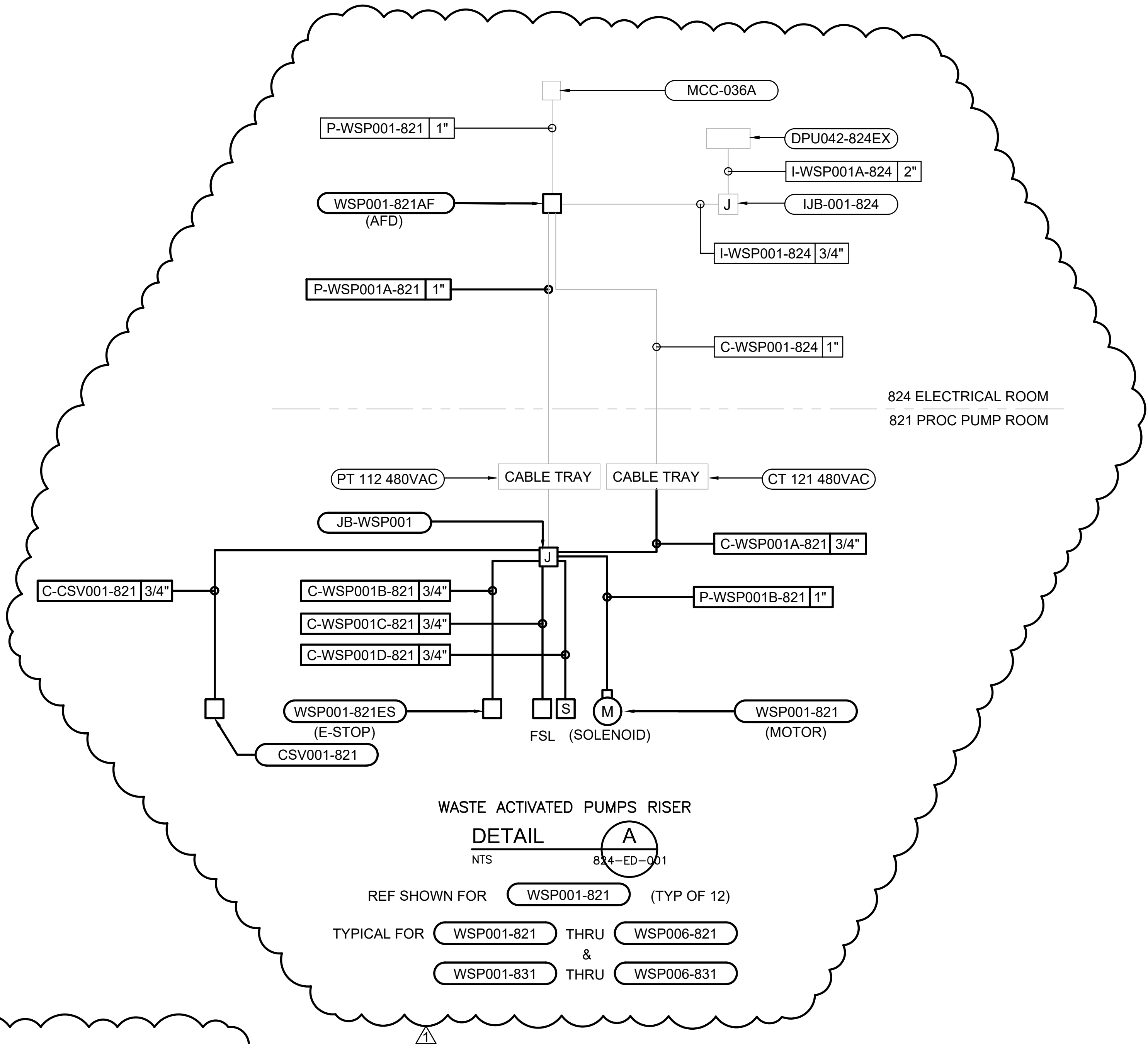
ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

821-ET-001
ELECTRICAL POWER PLAN- EAST WASTE
ACTIVATED TUNNEL (821) PLAN-I

Contract:	S-463
CAD File Name:	821-ET-001.DWG
Date:	07 / 11 / 2024
Sheet:	277 of 440

NOTE:

1. REFER TO SHEET 00-E-003 FOR CONDUIT AND WIRE SCHEDULE
2. REFER TO PLANVIEWS FOR CABLE TRAY LOCATIONS.
3. CONDUITS FOR MOTOR TERMINAL BOXES SHALL BE FLEXIBLE METAL CONDUITS. REFER TO CONDUIT SPECIFICATIONS FOR ADDITIONAL DETAILS.
4. REFER TO I&C SHEETS FOR SOLENOID AND FSL TAG NUMBERS. TYPICAL DESCRIPTION SHOWN IN ELECTRICAL PLAN.



LEGEND:

CTLM001-400

* THE 3-DIGIT CONDUIT TAG I.D. NO. WILL CHANGE TO INCORPORATE THE EQUIPMENT TAG I.D. WHICH IT SERVES. (TYP ALL DETAILS)

Designed by:	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
S. VANGALA	1	8/13/24	REVISED PER ADDENDUM 1	
Drawn by:				
H. CAMACHO				
Checked by:				
R. VIJAYENDRAN				

**CDM
Smith**

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METCO
CONSULTING
ENGINEERS



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

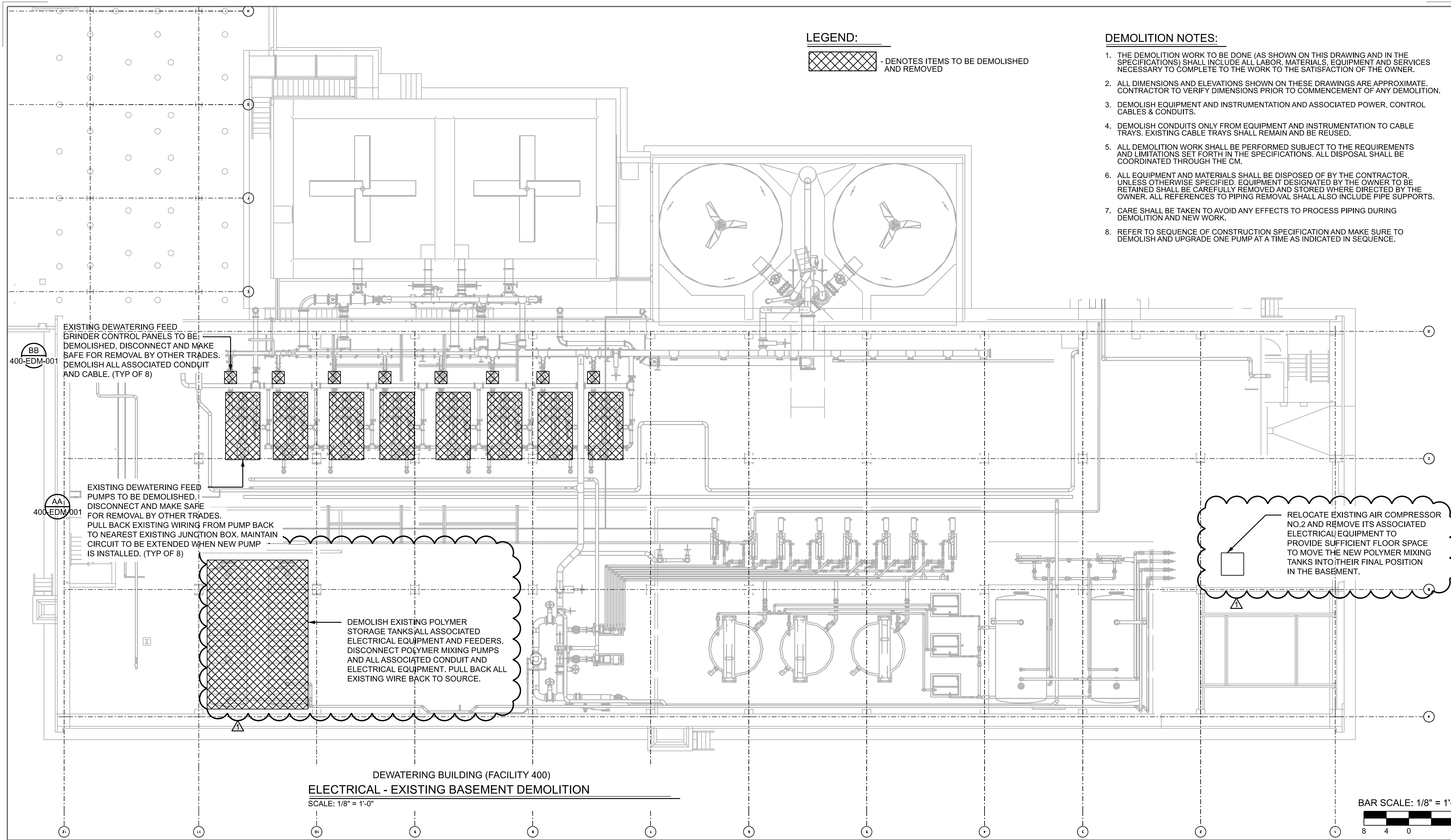
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(412) 766 - 4810

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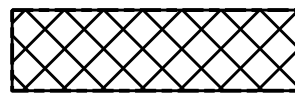
ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

824-ED-001
ELECTRICAL
WASTE ACTIVATED SLUDGE PUMPS RISER

Contract:	S-463
CAD File Name:	824ED001.dwg
Date:	07 / 11 / 2024
Sheet:	286 of 440



LEGEND:

 - DENOTES ITEMS TO BE DEMOLISHED AND REMOVED

DEMOLITION NOTES:

1. THE DEMOLITION WORK TO BE DONE (AS SHOWN ON THIS DRAWING AND IN THE SPECIFICATIONS) SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE TO THE WORK TO THE SATISFACTION OF THE OWNER.
2. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF ANY DEMOLITION.
3. DEMOLISH EQUIPMENT AND INSTRUMENTATION AND ASSOCIATED POWER, CONTROL CABLES & CONDUITS.
4. DEMOLISH CONDUITS ONLY FROM EQUIPMENT AND INSTRUMENTATION TO CABLE TRAYS. EXISTING CABLE TRAYS SHALL REMAIN AND BE REUSED.
5. ALL DEMOLITION WORK SHALL BE PERFORMED SUBJECT TO THE REQUIREMENTS AND LIMITATIONS SET FORTH IN THE SPECIFICATIONS. ALL DISPOSAL SHALL BE COORDINATED THROUGH THE CM.
6. ALL EQUIPMENT AND MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED. EQUIPMENT DESIGNATED BY THE OWNER TO BE RETAINED SHALL BE CAREFULLY REMOVED AND STORED WHERE DIRECTED BY THE OWNER. ALL REFERENCES TO PIPING REMOVAL SHALL ALSO INCLUDE PIPE SUPPORTS.
7. CARE SHALL BE TAKEN TO AVOID ANY EFFECTS TO PROCESS PIPING DURING DEMOLITION AND NEW WORK.
8. REFER TO SEQUENCE OF CONSTRUCTION SPECIFICATION AND MAKE SURE TO DEMOLISH AND UPGRADE ONE PUMP AT A TIME AS INDICATED IN SEQUENCE.

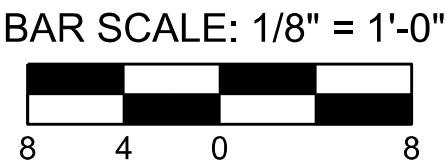
EXISTING DEWATERING FEED GRINDER CONTROL PANELS TO BE DEMOLISHED, DISCONNECT AND MAKE SAFE FOR REMOVAL BY OTHER TRADES. DEMOLISH ALL ASSOCIATED CONDUIT AND CABLE. (TYP OF 8)

EXISTING DEWATERING FEED PUMPS TO BE DEMOLISHED, DISCONNECT AND MAKE SAFE FOR REMOVAL BY OTHER TRADES. PULL BACK EXISTING WIRING FROM PUMP BACK TO NEAREST EXISTING JUNCTION BOX. MAINTAIN CIRCUIT TO BE EXTENDED WHEN NEW PUMP IS INSTALLED. (TYP OF 8)

DEMOLISH EXISTING POLYMER STORAGE TANKS ALL ASSOCIATED ELECTRICAL EQUIPMENT AND FEEDERS. DISCONNECT POLYMER MIXING PUMPS AND ALL ASSOCIATED CONDUIT AND ELECTRICAL EQUIPMENT. PULL BACK ALL EXISTING WIRE BACK TO SOURCE.

RELOCATE EXISTING AIR COMPRESSOR NO.2 AND REMOVE ITS ASSOCIATED ELECTRICAL EQUIPMENT TO PROVIDE SUFFICIENT FLOOR SPACE TO MOVE THE NEW POLYMER MIXING TANKS INTO THEIR FINAL POSITION IN THE BASEMENT.

DEWATERING BUILDING (FACILITY 400)
ELECTRICAL - EXISTING BASEMENT DEMOLITION
SCALE: 1/8" = 1'-0"



Designed by:	REVISION			
L. SCHAICH	REV No.	DATE	DESCRIPTION	APPV
Drawn by:		8/14/24	REVISED PER ADDENDUM 1	
J. MARCUM				
Checked by:				
L. SCHAICH				

CDM Smith

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ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

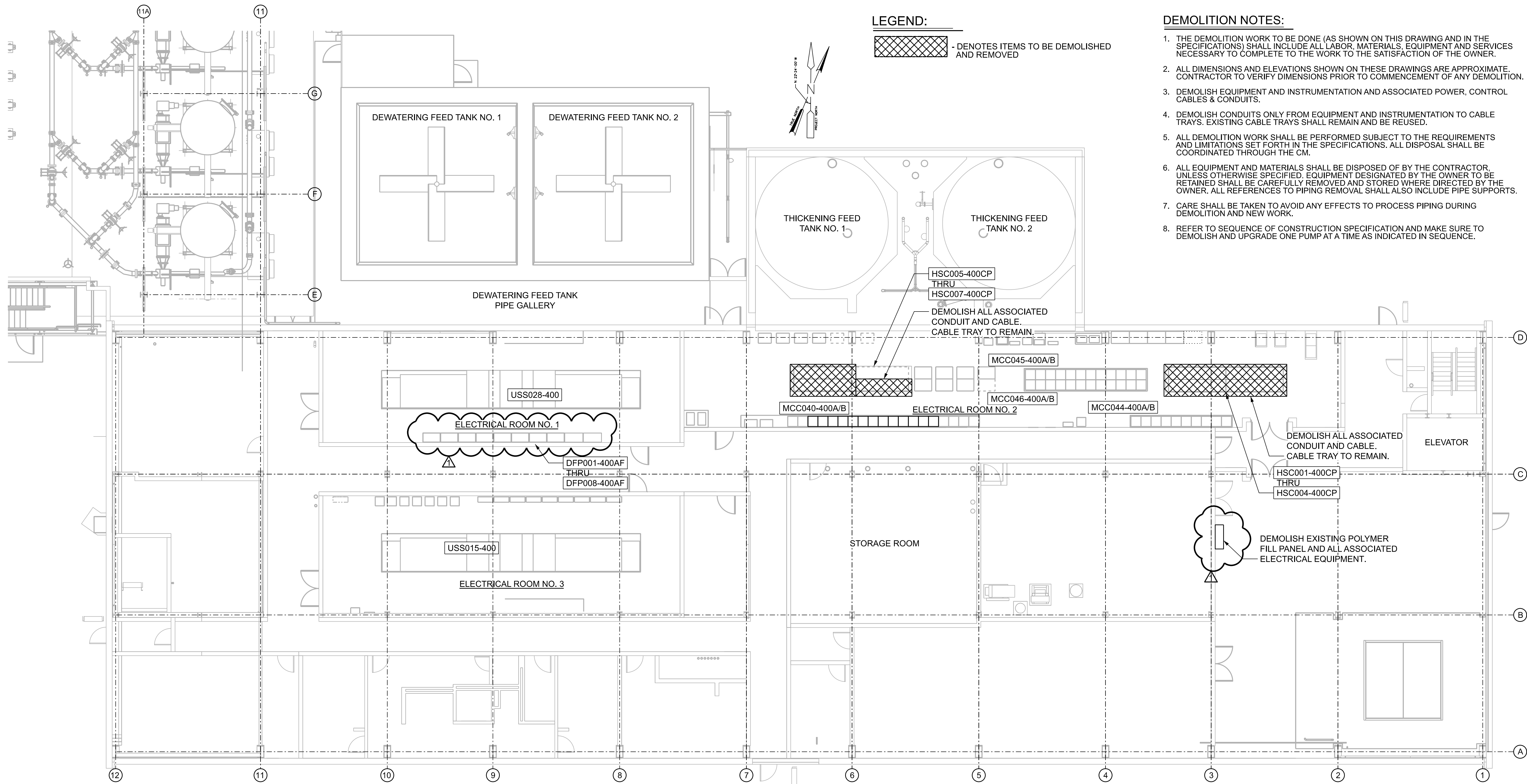
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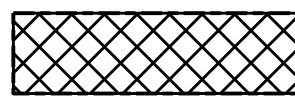
ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

400-EDM-101
DEWATERING BUILDING
ELECTRICAL - EXISTING BASEMENT PLAN

Contract:	1799
CAD File Name:	400-EDM-101.DGN
Date:	07 / 11 / 2024
Sheet:	294 of 440



LEGEND:

 - DENOTES ITEMS TO BE DEMOLISHED AND REMOVED

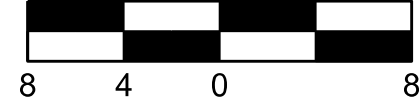
DEMOLITION NOTES:

1. THE DEMOLITION WORK TO BE DONE (AS SHOWN ON THIS DRAWING AND IN THE SPECIFICATIONS) SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE TO THE WORK TO THE SATISFACTION OF THE OWNER.
2. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF ANY DEMOLITION.
3. DEMOLISH EQUIPMENT AND INSTRUMENTATION AND ASSOCIATED POWER, CONTROL CABLES & CONDUITS.
4. DEMOLISH CONDUITS ONLY FROM EQUIPMENT AND INSTRUMENTATION TO CABLE TRAYS. EXISTING CABLE TRAYS SHALL REMAIN AND BE REUSED.
5. ALL DEMOLITION WORK SHALL BE PERFORMED SUBJECT TO THE REQUIREMENTS AND LIMITATIONS SET FORTH IN THE SPECIFICATIONS. ALL DISPOSAL SHALL BE COORDINATED THROUGH THE CM.
6. ALL EQUIPMENT AND MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR, UNLESS OTHERWISE SPECIFIED. EQUIPMENT DESIGNATED BY THE OWNER TO BE RETAINED SHALL BE CAREFULLY REMOVED AND STORED WHERE DIRECTED BY THE OWNER. ALL REFERENCES TO PIPING REMOVAL SHALL ALSO INCLUDE PIPE SUPPORTS.
7. CARE SHALL BE TAKEN TO AVOID ANY EFFECTS TO PROCESS PIPING DURING DEMOLITION AND NEW WORK.
8. REFER TO SEQUENCE OF CONSTRUCTION SPECIFICATION AND MAKE SURE TO DEMOLISH AND UPGRADE ONE PUMP AT A TIME AS INDICATED IN SEQUENCE.

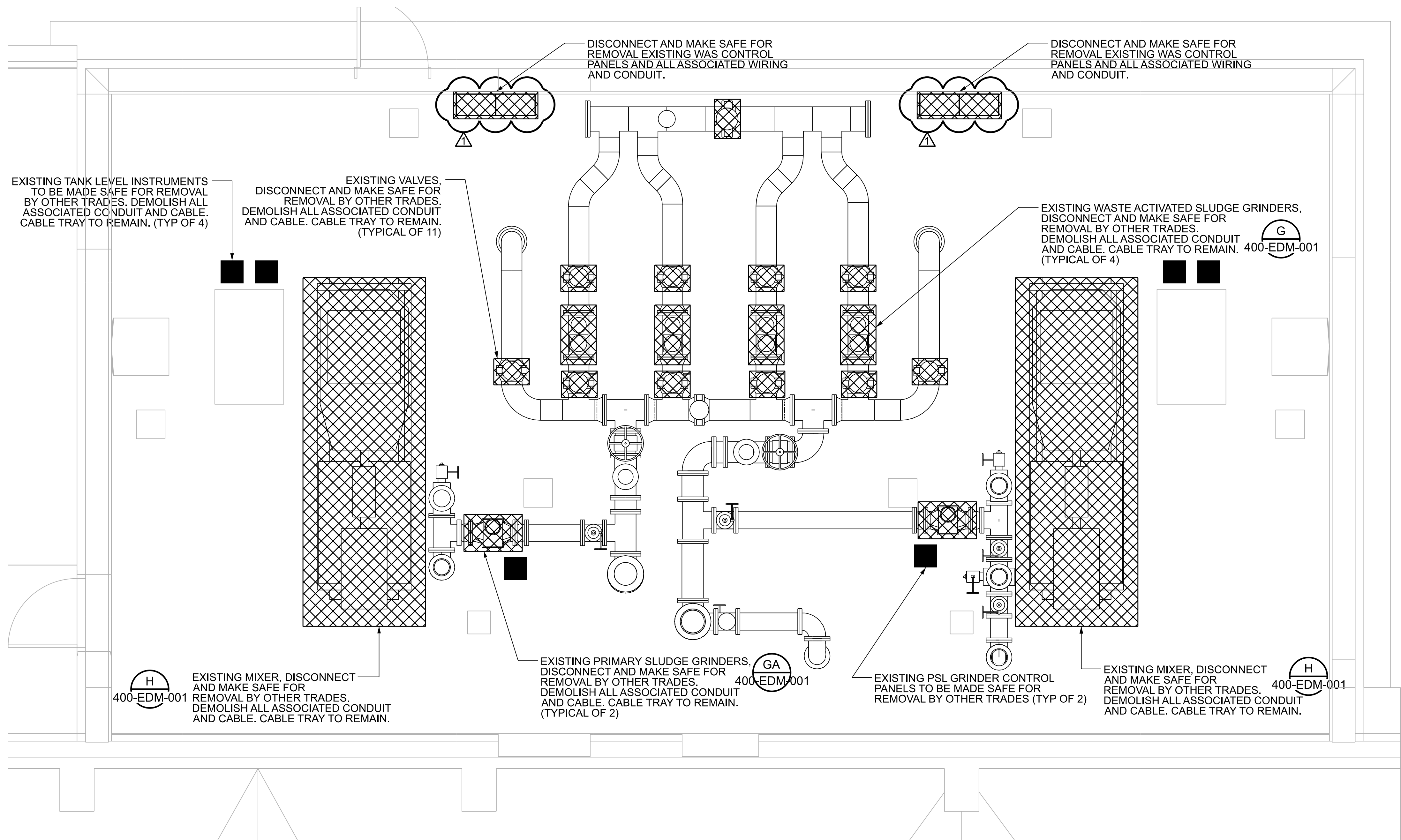
DEWATERING BUILDING (FACILITY 400) - FIRST FLOOR
ELECTRICAL - DEMOLITION FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

BAR SCALE: 1/8" = 1'-0"

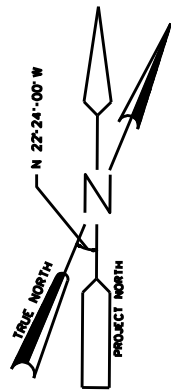


Designed by:	REVISION				 ONE ALLEGHENY SQUARE NOVA TOWER 1, SUITE 200 PITTSBURGH, PA 15212 TEL: (412) 201-5500	 JOSEPH D. CROWLEY ENGINEER BY PERMIT PENNSYLVANIA	 alcosan allegheny county sanitary authority www.alcosan.org	ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810	ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT SOLIDS THICKENING AND DEWATERING IMPROVEMENTS 400-EDM-110 DEWATERING BUILDING ELECTRICAL - FIRST FLOOR PLAN	Contract:
J. CROWLEY JR	REV No.	DATE	DESCRIPTION	APPV						1799
Drawn by:		8/14/24	REVISED PER ADDENDUM 1							CAD File Name:
G. WARD										400EDM110.DGN
Checked by:										Date:
J. CROWLEY					07 / 11 / 2024					
					Sheet:					
					295 of 440					

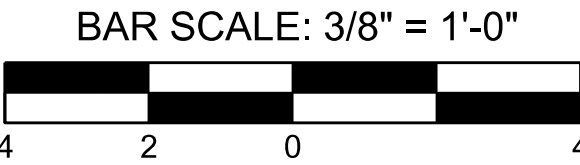


LEGEND:
[Cross-hatched box] - DENOTES ITEMS TO BE DEMOLISHED AND REMOVED

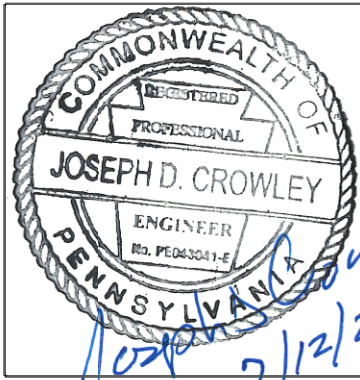
- DEMOLITION NOTES:
1. THE DEMOLITION WORK TO BE DONE (AS SHOWN ON THIS DRAWING AND IN THE SPECIFICATIONS) SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE TO THE WORK TO THE SATISFACTION OF THE OWNER.
 2. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF ANY DEMOLITION.
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 8. REFER TO SEQUENCE OF CONSTRUCTION SPECIFICATION AND MAKE SURE TO DEMOLISH AND UPGRADE ONE PUMP AT A TIME AS INDICATED IN SEQUENCE.



DEWATERING BUILDING (FACILITY 400)
ELECTRICAL DEMOLITION - THICKENING FEED TANK MIXER ROOM - LOWER LEVEL
SCALE: 3/8" = 1'-0"



Designed by: L. SCHAICH Drawn by: J. MARCUM Checked by: L. SCHAICH	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
	1	8/14/24	REVISED PER ADDENDUM 1	



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

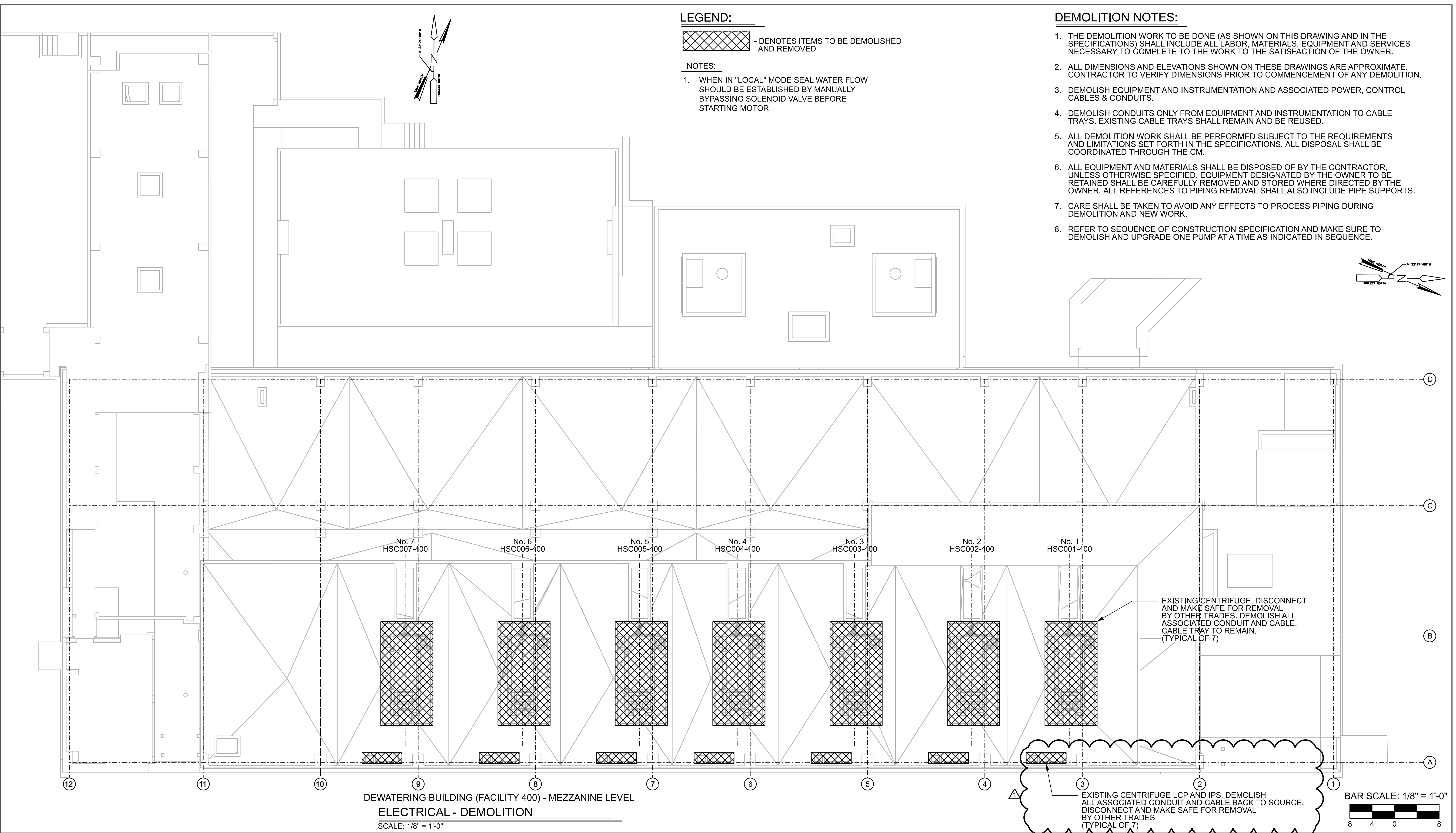
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PITTSBURGH, PA 15233
(412) 766 - 4810

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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

400-EDM-122
DEWATERING BUILDING
ELEC - THICKENING FEED TANK MIXER ROOM - LOWER LEVEL

Contract: 1799
CAD File Name: 400-EDM-122.DGN
Date: 07 / 11 / 2024
Sheet: 297 of 440



LEGEND:

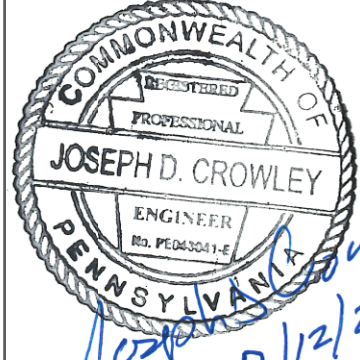
 - DENOTES ITEMS TO BE DEMOLISHED AND REMOVED

NOTES:

1. WHEN IN "LOCAL" MODE SEAL WATER FLOW SHOULD BE ESTABLISHED BY MANUALLY BYPASSING SOLENOID VALVE BEFORE STARTING MOTOR

DEMOLITION NOTES:

1. THE DEMOLITION WORK TO BE DONE (AS SHOWN ON THIS DRAWING AND IN THE SPECIFICATIONS) SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE TO THE WORK TO THE SATISFACTION OF THE OWNER.
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8. REFER TO SEQUENCE OF CONSTRUCTION SPECIFICATION AND MAKE SURE TO DEMOLISH AND UPGRADE ONE PUMP AT A TIME AS INDICATED IN SEQUENCE.

Designed by:	REVISION				 ONE ALLEGHENY SQUARE NOVA TOWER 1, SUITE 200 PITTSBURGH, PA 15212 TEL: (412) 201-5500	 JOSEPH D. CROWLEY ENGINEER BY PERMIT PENNSYLVANIA	 alcosan alleggheny county sanitary authority	ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT SOLIDS THICKENING AND DEWATERING IMPROVEMENTS 400-EDM-131 DEWATERING BUILDING ELECTRICAL - MEZZANINE LEVEL PLAN	Contract:	1799
W. HOTZ	REV No.	DATE	DESCRIPTION	APPV						CAD File Name:	400-EDM-131.DGN
Drawn by:		8/14/24	REVISED PER ADDENDUM 1							Date:	07 / 11 / 2024
J. MARCUM										Sheet:	298 of 440
Checked by:											
L. SCHAICH											

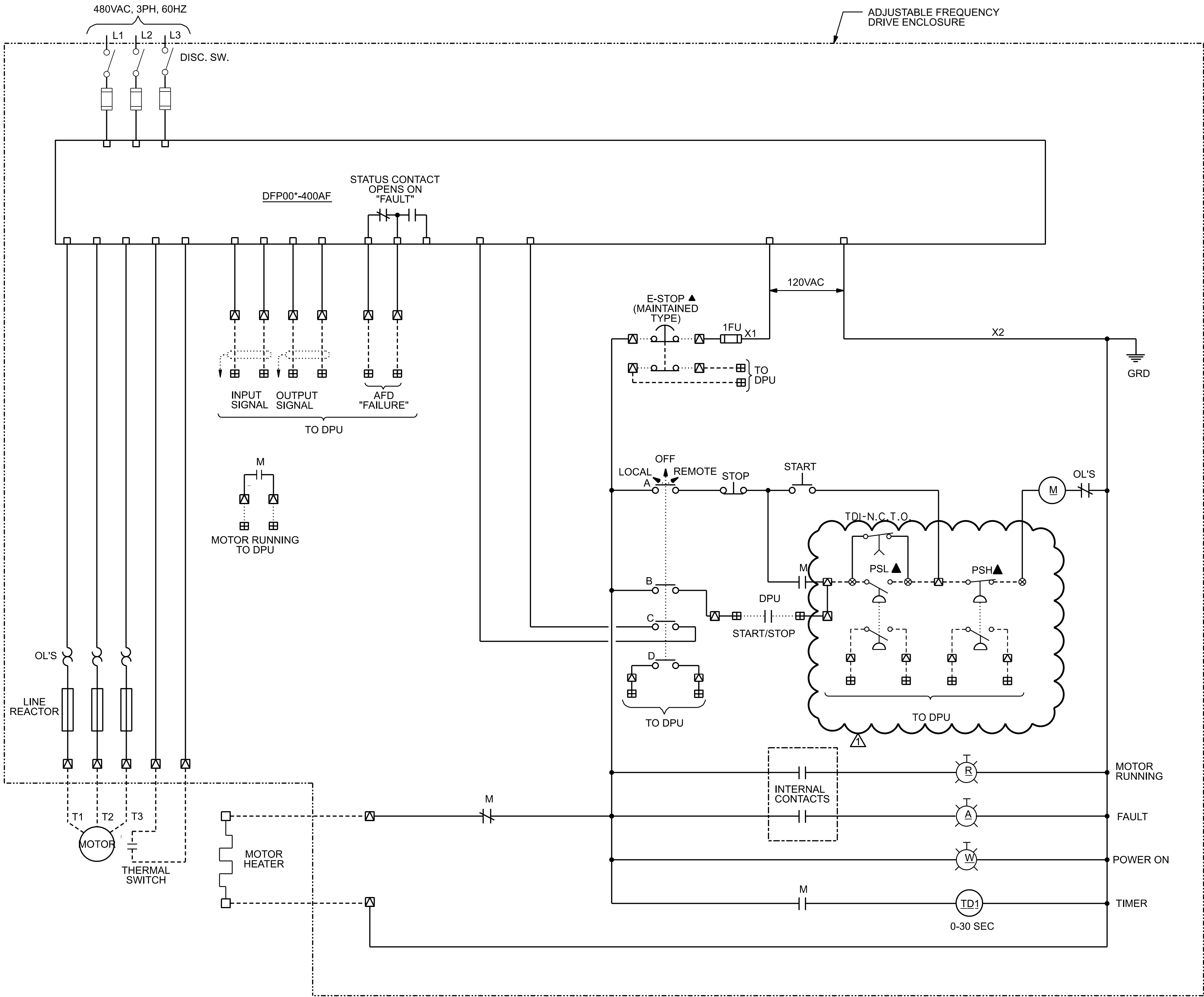


X - CLOSED CONTACT
O - OPEN CONTACT

	INDICATES DEVICE LOCATED IN CONTROL STATION ON THE EAST SIDE OF THE CONVEYOR
	INDICATES DEVICE LOCATED ON THE CONVEYOR
	INDICATES TERMINAL LOCATED IN DPU CABINET
	INDICATES DEVICE TERMINAL ON THE CONTROL STATION LOCATED ON THE WEST SIDE OF THE CONVEYOR
	TERMINATION POINT IN AFD CABINET
	DEVICE LOCATED IN THE FIELD
	INDICATES UNIQUE NUMBER AS APPLICABLE
	INDICATES TERMINAL LOCATED AT CONTROL STATION NEAR MOTOR.

TYPICAL FOR: (PTS001-400) THICKENED SLUDGE PUMPS
(PTS002-400)
(PTS003-400)
(PTS004-400)

Designed by:	REVISION				 ONE ALLEGHENY SQUARE NOVA TOWER 1, SUITE 200 PITTSBURGH, PA 15212 TEL: (412) 201-5500			ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCO SAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT SOLIDS THICKENING AND DEWATERING IMPROVEMENTS 400-EM-002 DEWATERING BUILDING ELECTRICAL - ELEMENTARY DIAGRAMS II	Contract:	1799
J. CROWLEY JR	REV No.	DATE	DESCRIPTION	APPV						CAD File Name:	400EM002.DGN
Drawn by:		8/14/24	REVISED PER ADDENDUM 1							Date:	07 / 11 / 2024
G. WARD										Sheet:	306 of 440
Checked by:											
J. CROWLEY											



CIRCUIT	POSITION		
	LOCAL	OFF	REMOTE
A	X	O	O
B	O	O	X
C	O	O	X
D	O	O	X

SELECTOR SWITCH - MAINTAINED CONTACT - CHART

X - CLOSED CONTACT
O - OPEN CONTACT

LEGEND:

- INDICATES DEVICE LOCATED IN CONTROL STATION ON THE EAST SIDE OF THE CONVEYOR
- INDICATES DEVICE LOCATED ON THE CONVEYOR
- INDICATES TERMINAL LOCATED IN DPU CABINET
- INDICATES DEVICE TERMINAL ON THE CONTROL STATION LOCATED ON THE WEST SIDE OF THE CONVEYOR
- TERMINATION POINT IN AFD CABINET
- DEVICE LOCATED IN THE FIELD
- INDICATES UNIQUE NUMBER AS APPLICABLE
- INDICATES TERMINAL LOCATED AT CONTROL STATION NEAR MOTOR.

ELEMENTARY DIAGRAM

TYPICAL FOR: DFP001-400 DEWATERING FEED PUMPS
DFP002-400
DFP003-400
DFP004-400
DFP005-400
DFP006-400
DFP007-400

Designed by:	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
J. CROWLEY JR	1	8/14/24	REVISED PER ADDENDUM 1	
Drawn by:				
G. WARD				
Checked by:				
J. CROWLEY				

**CDM
Smith**

ONE ALLEGHENY SQUARE
NOVA TOWER 1, SUITE 200
PITTSBURGH, PA 15212
TEL: (412) 201-5500



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

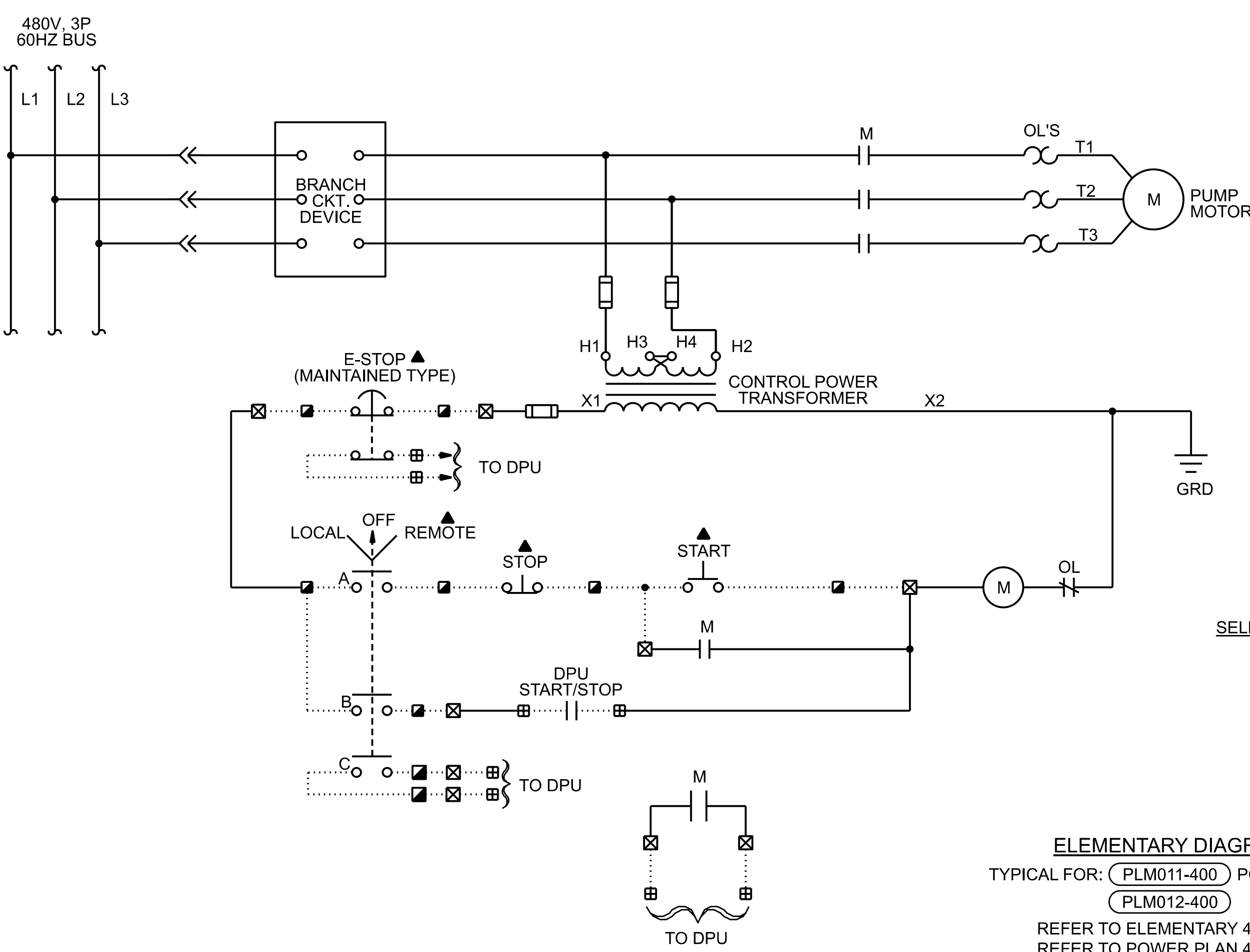
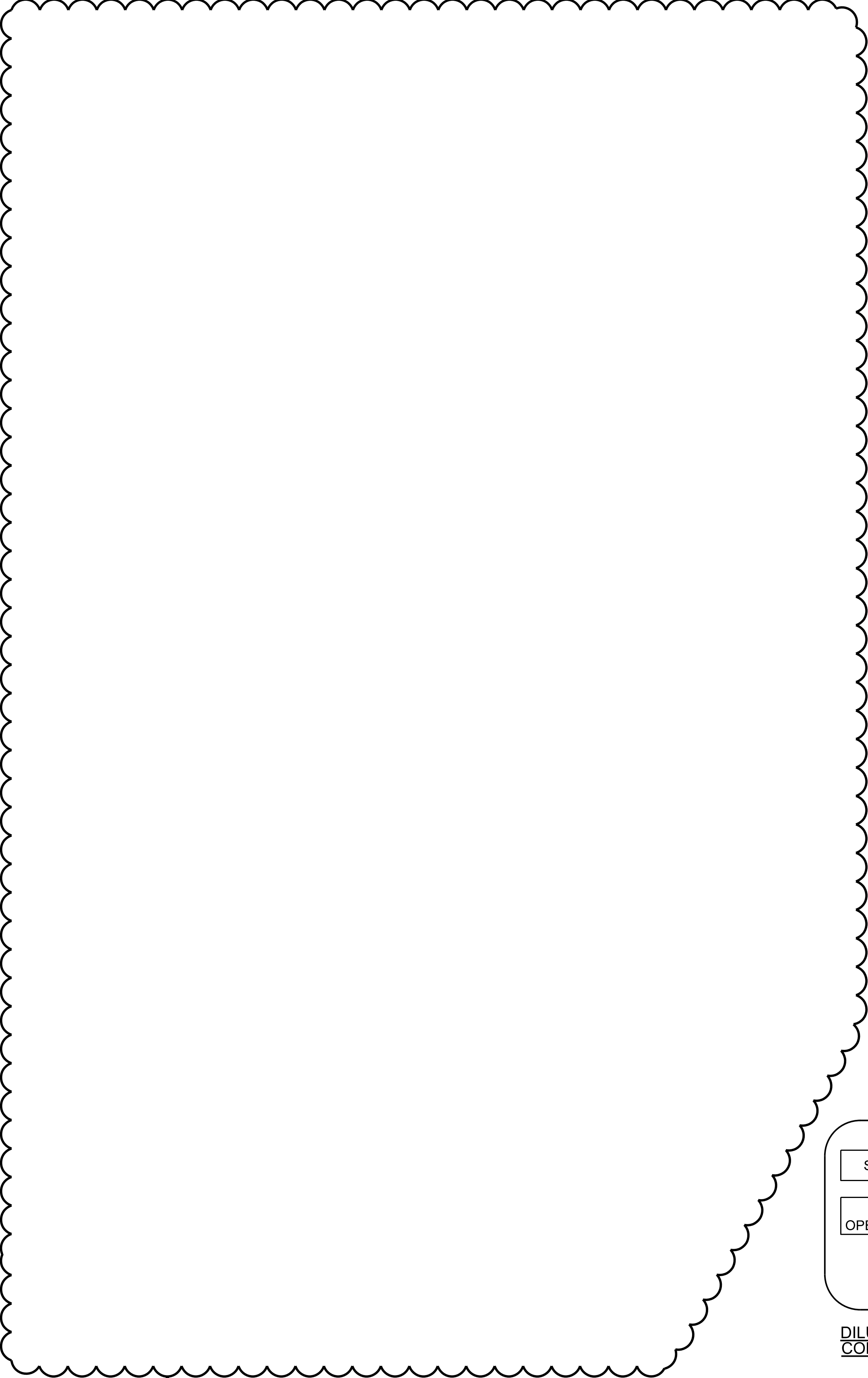
3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

400-EM-004
DEWATERING BUILDING
ELECTRICAL - ELEMENTARY DIAGRAMS IV

Contract:	1799
CAD File Name:	400EM004.DGN
Date:	07 / 11 / 2024
Sheet:	308 of 440

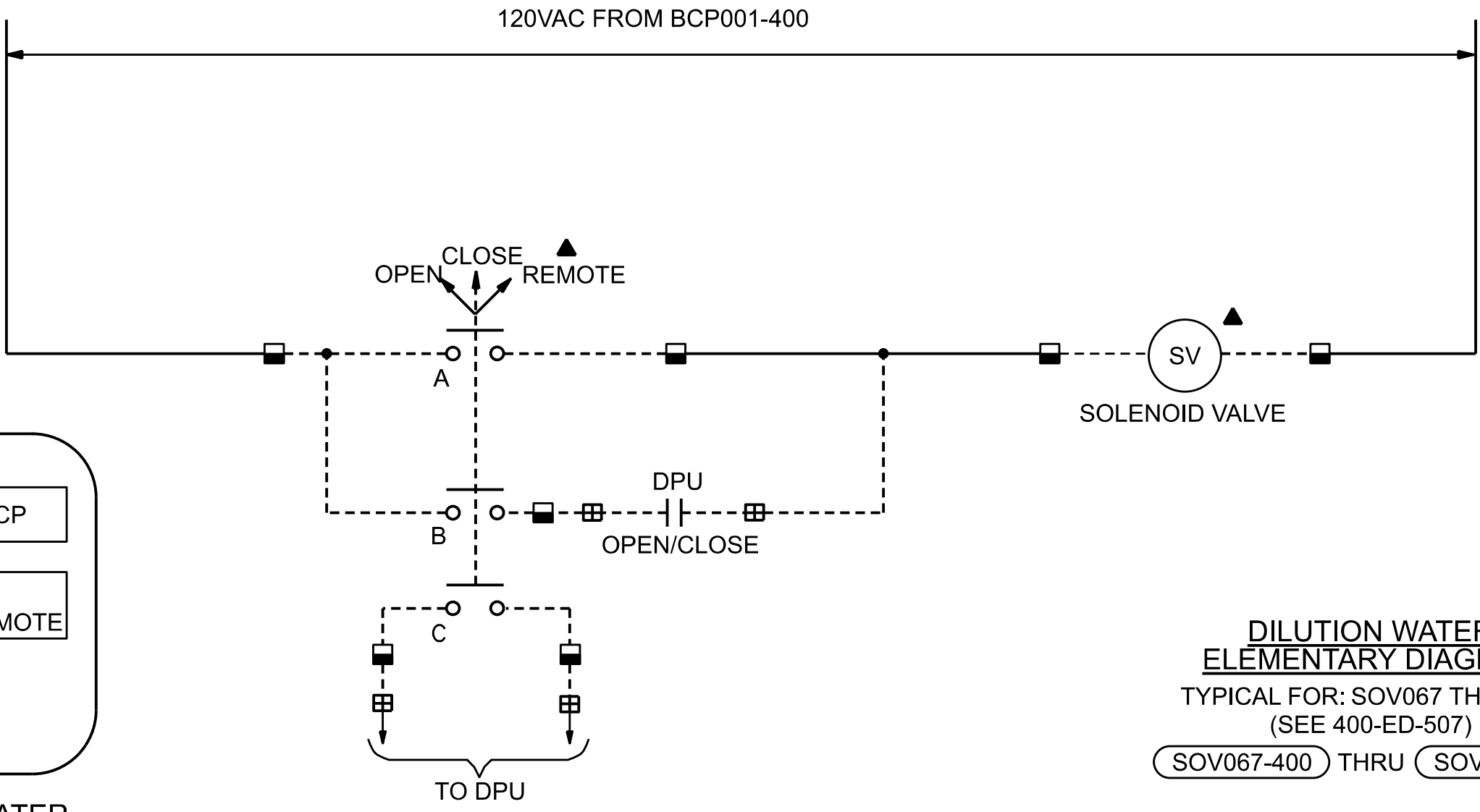


SELECTOR SWITCH POSITION			
CIRCUIT	LOCAL	OFF	REMOTE
A	X	O	O
B	O	O	X
C	O	O	X

SELECTOR SWITCH - MAINTAINED CONTACT - CHART
X - CLOSED CONTACT
O - OPEN CONTACT

ELEMENTARY DIAGRAM
TYPICAL FOR: (PLM011-400) POLYMER MIXERS
(PLM012-400)

REFER TO ELEMENTARY 400-EM-006
REFER TO POWER PLAN 400-ET-100
REFER TO SINGLE LINE 400-ESL-015
REFER TO CABLE SCHEDULE
REFER TO DETAIL 400-ED-006



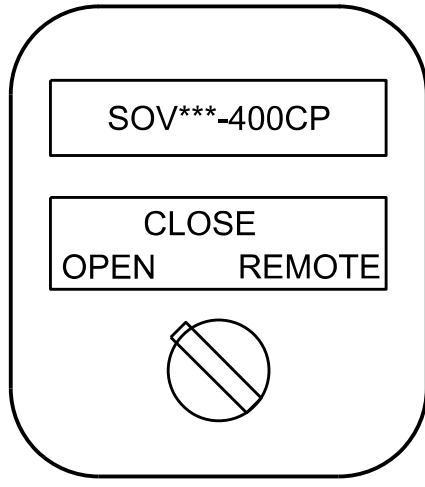
DILUTION WATER
ELEMENTARY DIAGRAM

TYPICAL FOR: SOV067 THRU 072
(SEE 400-ED-507)

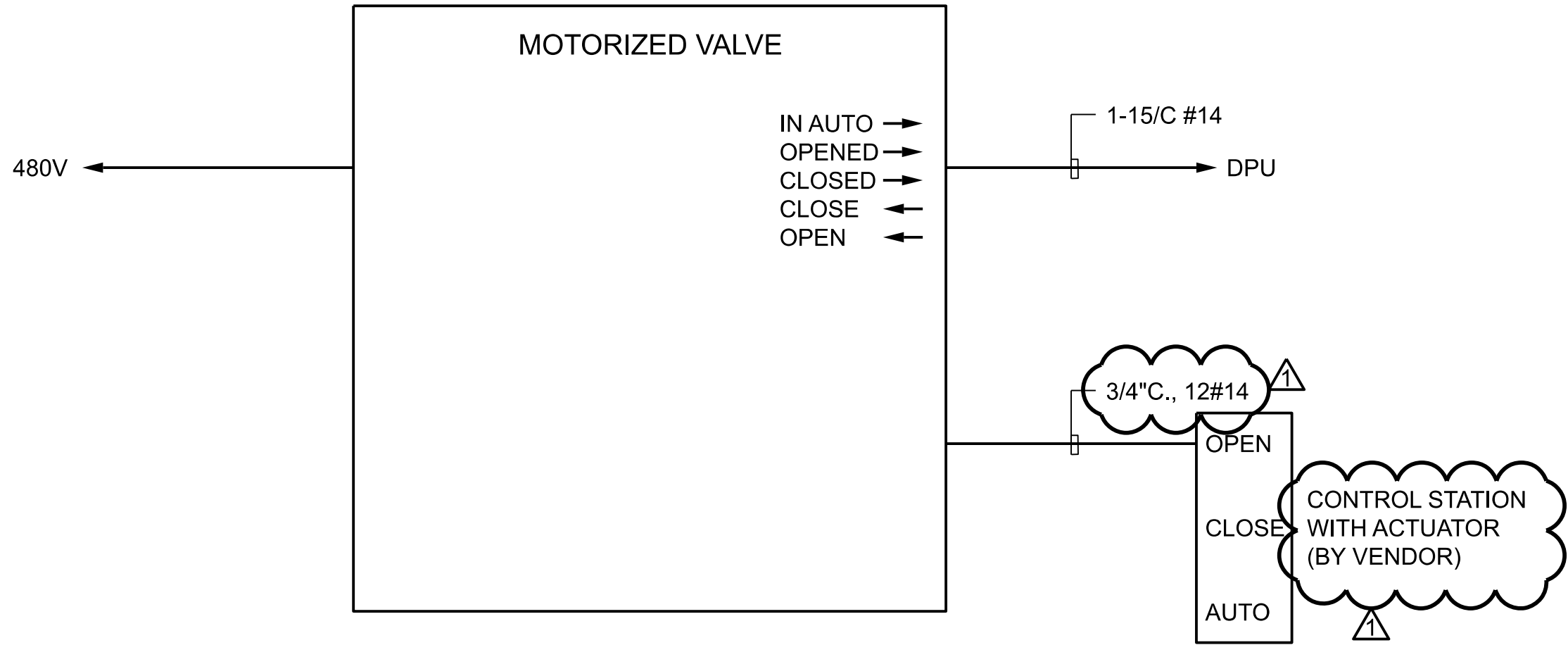
(SOV067-400) THRU (SOV072-400)

LEGEND:

- INDICATES DEVICE LOCATED IN CONTROL STATION ON THE EAST SIDE OF THE CONVEYOR
- INDICATES DEVICE LOCATED ON THE CONVEYOR
- INDICATES TERMINAL LOCATED IN DPU CABINET
- INDICATES DEVICE TERMINAL ON THE CONTROL STATION LOCATED ON THE WEST SIDE OF THE CONVEYOR
- TERMINATION POINT IN AFD CABINET
- DEVICE LOCATED IN THE FIELD
- INDICATES UNIQUE NUMBER AS APPLICABLE
- INDICATES TERMINAL LOCATED AT CONTROL STATION NEAR MOTOR.

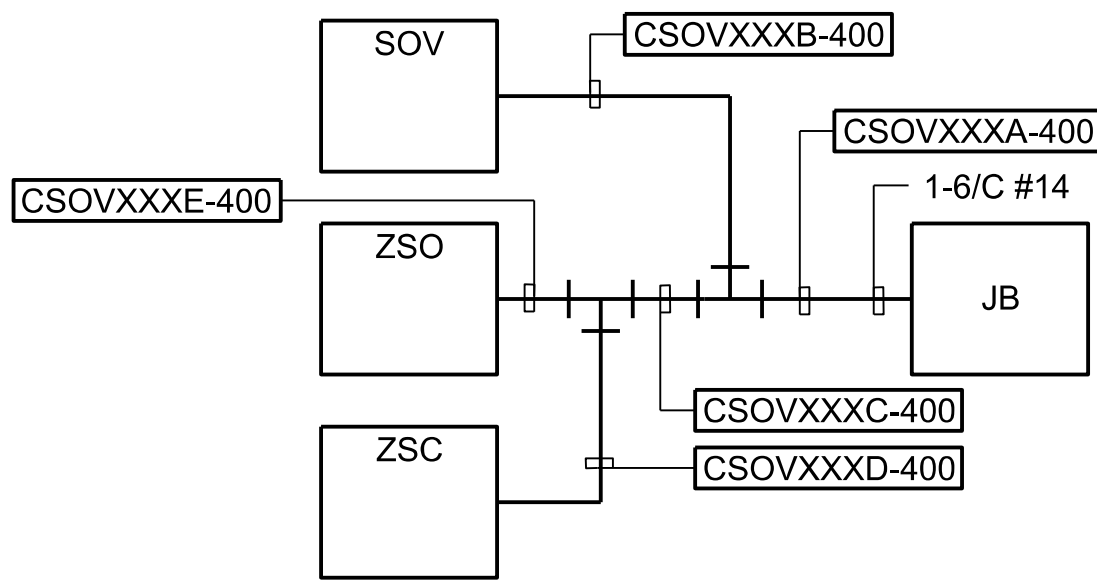


DILUTION WATER
CONTROL PANEL
(TYPICAL)



**MOTORIZED VALVE
ELEMENTARY DIAGRAM I**

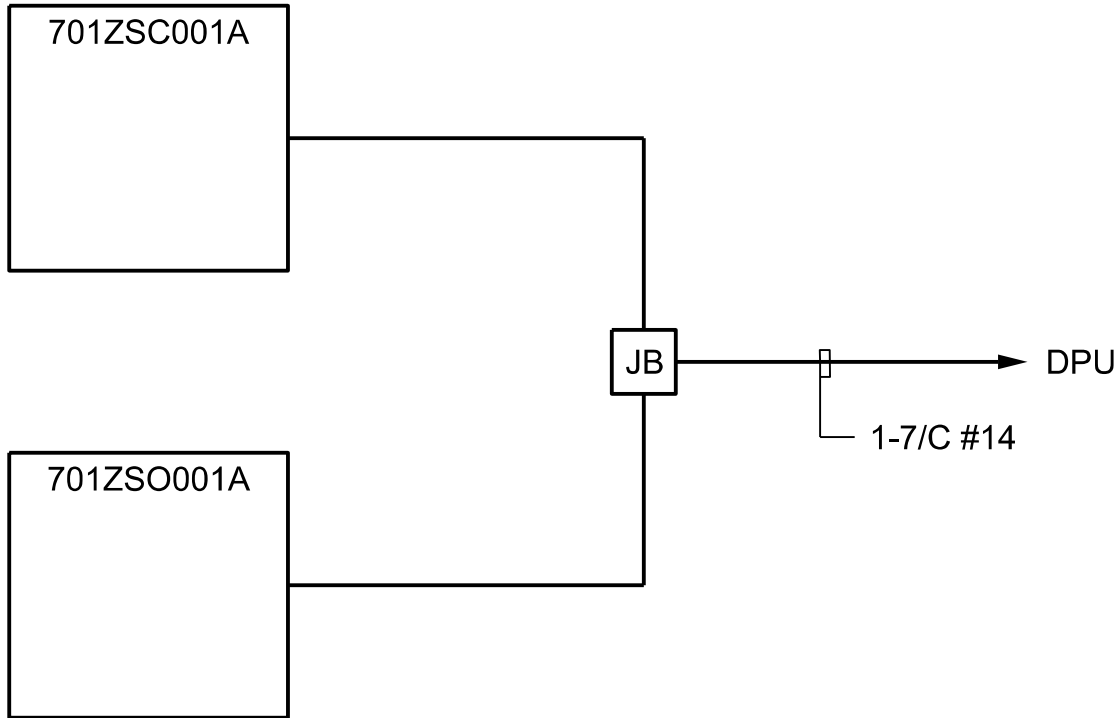
REFER TO DRAWING 725-ET-400
TYPICAL FOR:
V725CST001 - DPU716
V725CST002 - DPU716
V725CST003 - DPU706
V725WSP001 - DPU716
V725WSP002 - DPU706
V725WSP003 - DPU706
V725WSP004 - DPU716
V725PPS001 - DPU716
V725PPS002 - DPU716
V725PPS003 - DPU706
V725PPS004 - DPU706



**SLUDGE GRINDER PNEUMATIC ACTUATED VALVE
ELEMENTARY DIAGRAM**

TYPICAL FOR:
V400GPS001 (SOV051-400)
V400GPS002 (SOV052-400)
V400GPS003 (SOV053-400)
V400GPS004 (SOV054-400)
V400GPS005 (SOV055-400)
V400GPS006 (SOV056-400)
V400GPS007 (SOV057-400)
V400GPS008 (SOV058-400)
V400GPS009 (SOV059-400)
V400GPS010 (SOV050-400)

V400GWS001 (SOV131-400)
V400GWS002 (SOV132-400)
V400GWS003 (SOV133-400)
V400GWS004 (SOV134-400)
V400GWS005 (SOV135-400)
V400GWS006 (SOV136-400)
V400GWS007 (SOV137-400)
V400GWS008 (SOV138-400)
V400GWS009 (SOV139-400)
V400GWS010 (SOV140-400)
V400GWS011 (SOV141-400)
V400GWS012 (SOV142-400)
V400GWS013 (SOV143-400)
V400GWS014 (SOV144-400)



**POSITION SWITCH
ELEMENTARY DIAGRAM**

Designed by:	REVISION			
J. CROWLEY JR	REV No.	DATE	DESCRIPTION	APPV
Drawn by:	1	8/14/24	REVISED PER ADDENDUM 1	
G. WARD				
Checked by:				
J. CROWLEY				

**CDM
Smith**

ONE ALLEGHENY SQUARE
NOVA TOWER 1, SUITE 200
PITTSBURGH, PA 15212
TEL: (412) 201-5500



ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

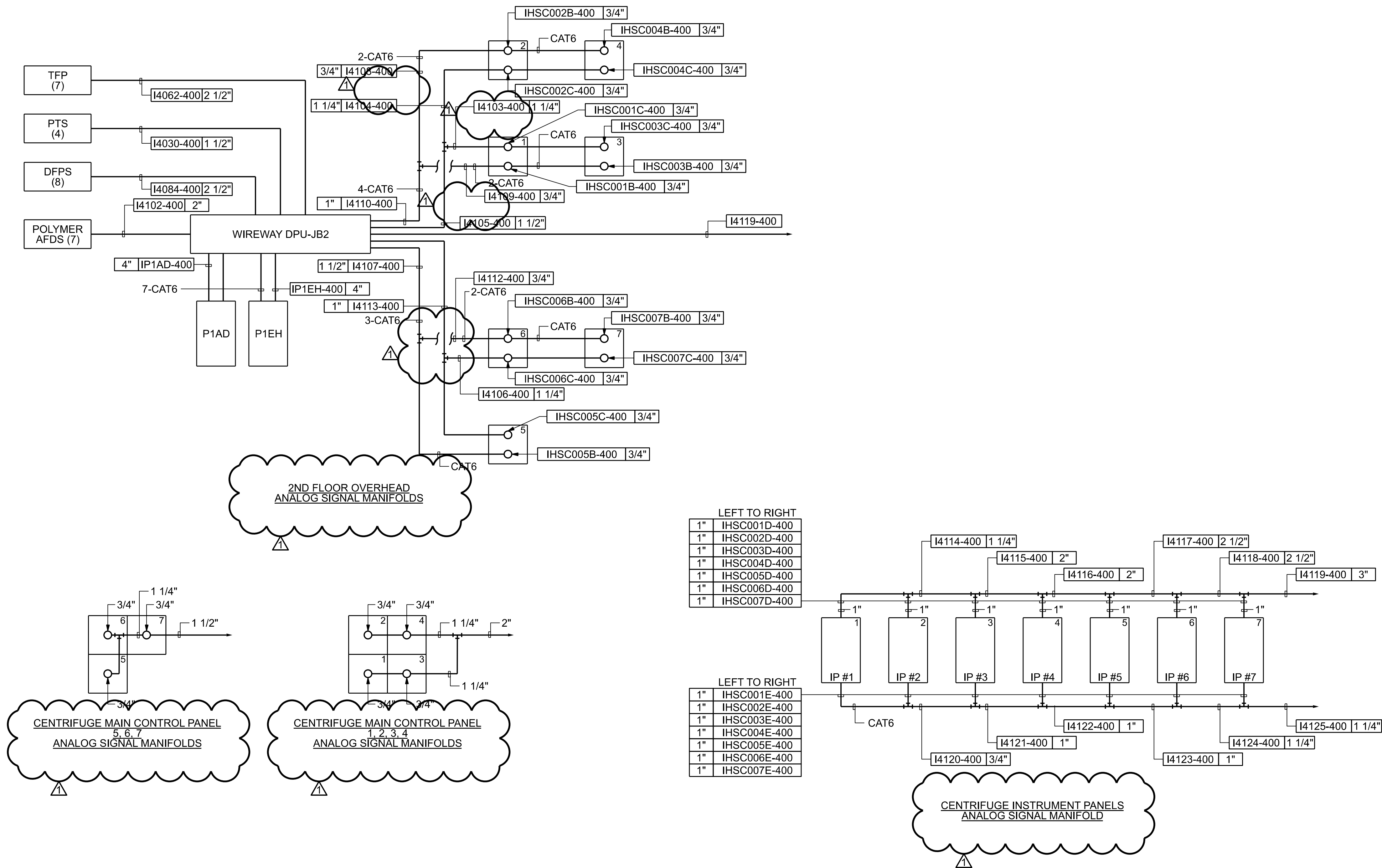
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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

**400-EM-011
DEWATERING BUILDING
ELECTRICAL - ELEMENTARY DIAGRAMS XI**

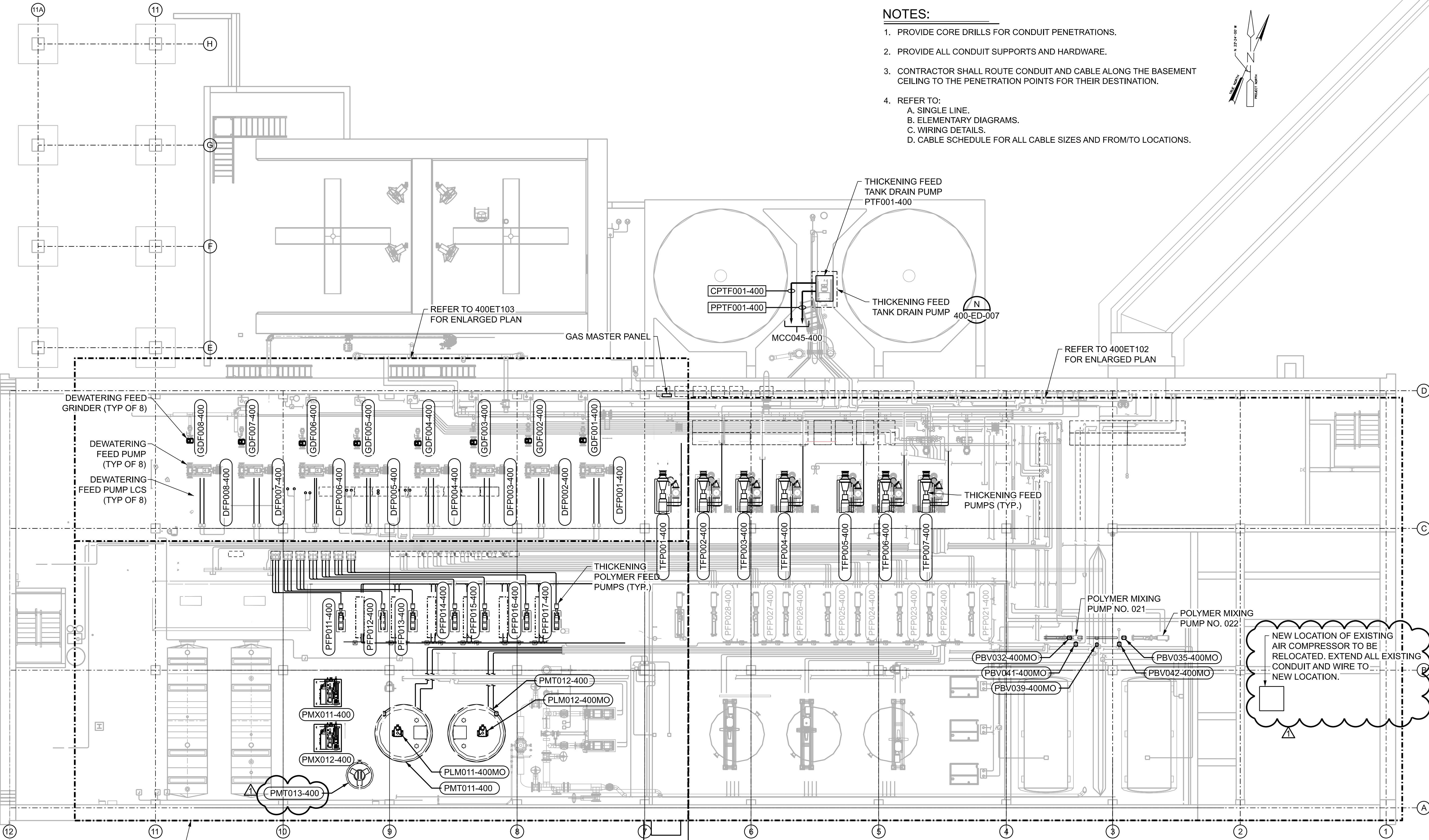
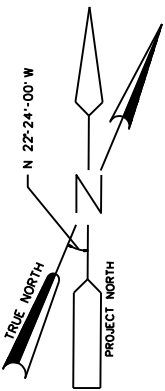
Contract: 1799
CAD File Name: 400EM011.DGN
Date: 07 / 11 / 2024
Sheet: 315 of 440



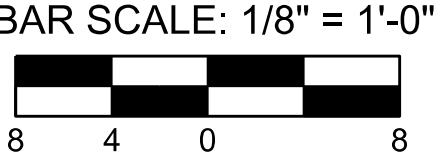
- LEFT TO RIGHT
- 1" IHSC001D-400
 - 1" IHSC002D-400
 - 1" IHSC003D-400
 - 1" IHSC004D-400
 - 1" IHSC005D-400
 - 1" IHSC006D-400
 - 1" IHSC007D-400

- LEFT TO RIGHT
- 1" IHSC001E-400
 - 1" IHSC002E-400
 - 1" IHSC003E-400
 - 1" IHSC004E-400
 - 1" IHSC005E-400
 - 1" IHSC006E-400
 - 1" IHSC007E-400

- NOTES:
1. PROVIDE CORE DRILLS FOR CONDUIT PENETRATIONS.
 2. PROVIDE ALL CONDUIT SUPPORTS AND HARDWARE.
 3. CONTRACTOR SHALL ROUTE CONDUIT AND CABLE ALONG THE BASEMENT CEILING TO THE PENETRATION POINTS FOR THEIR DESTINATION.
 4. REFER TO:
 - A. SINGLE LINE.
 - B. ELEMENTARY DIAGRAMS.
 - C. WIRING DETAILS.
 - D. CABLE SCHEDULE FOR ALL CABLE SIZES AND FROM/TO LOCATIONS.



DEWATERING BUILDING (FACILITY 400) - BASEMENT
ELECTRICAL - NEW WORK BASEMENT PLAN
SCALE: 1/8" = 1'-0"



Designed by:	REVISION				APPV
J. CROWLEY JR	REV No.	DATE	DESCRIPTION		
Drawn by:	1	8/14/24	REVISED PER ADDENDUM 1		
G. WARD					
Checked by:					
J. CROWLEY					

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

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ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT SOLIDS THICKENING AND DEWATERING IMPROVEMENTS		Contract: 1799
400-ET-100 DEWATERING BUILDING ELECTRICAL - BASEMENT FLOOR PLAN		CAD File Name: 400ET100.DGN
		Date: 07 / 11 / 2024
		Sheet: 332 of 440

Attachment G

Cable Schedule

(Excel File)

STATUS	Device Prefix	Device No	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
GOOD	CSL	001	C-CSL001A-400	#14	25/C	2	HSC001-400CP	CSL001-400JB	CHSC001A-400, CT-3, CT-5, CCSL001-400		
GOOD	CSL	001	C-CSL001-400CS2	#14	1/C	4	CSL001-400JB	CSL001-400CS2	CCSL001-400, CCSL001A-400, CCSL001D-400, CCSL001F-400, CCSL001H-400	E STOP	
GOOD	CSL	001	C-CSL001-400CS3	#14	1/C	2	CSL001-400JB	CSL001-400CS3	CCSL001-400, CCSL001A-400, CCSL001D-400, CCSL001E-400	PULL CORD	
GOOD	CSL	001	C-CSL001-400DS	#14	1/C	2	CSL001-400JB	CSL001-400DS	CCSL001-400, CCSL001A-400, CCSL001C-400	DOOR SWITCH 1	
GOOD	CSL	001	C-CSL001-400DS2	#14	1/C	2	CSL001-400JB	CSL001-400DS2	CCSL001-400, CCSL001A-400, CCSL001D-400, CCSL001F-400, CCSL001G-400	DOOR SWITCH 2	
GOOD	CSL	001	C-CSL001-400SSL	#14	1/C	4	CSL001-400JB	CSL001-400SSL	CCSL001-400, CCSL001A-400, CCSL001B-400	ZERO SPEED	
GOOD	CSL	001	C-SOV014-400	#14	1/C	4	CSL001-400JB	SOV014-400	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001P-400	SOLENOID 14	
GOOD	CSL	001	C-SOV021-400	#14	1/C	4	CSL001-400JB	SOV021-400	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Y-400	SOLENOID 21	
GOOD	CSL	001	C-SOV073-400	#14	1/C	4	CSL001-400JB	SOV073-400	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001S-400	SOLENOID 73	
GOOD	CSL	001	C-GSD011-400ZSC	#14	1/C	2	CSL001-400JB	GSD011-400ZSC	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001R-400	SLIDE GATE NO 1 CLOSE	
GOOD	CSL	001	C-GSD011-400ZSO	#14	1/C	2	CSL001-400JB	GSD011-400ZSO	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001T-400	SLIDE GATE NO 1 OPEN	
GOOD	CSL	001	C-SOV074-400	#14	1/C	4	CSL001-400JB	SOV074-400	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001U-400, CCSL001W-400	SOLENOID 74	
GOOD	CSL	001	C-GSD012-400ZSC	#14	1/C	2	CSL001-400JB	GSD012-400ZSC	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001U-400, CCSL001V-400	SLIDE GATE NO 2 CLOSE	
GOOD	CSL	001	C-GSD012-400ZSO	#14	1/C	2	CSL001-400JB	GSD012-400ZSO	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001U-400, CCSL001X-400	SLIDE GATE NO 2 OPEN	
GOOD	CSL	001	C-SOV075-400	#14	1/C	4	CSL001-400JB	SOV075-400	CCSL001-400, CCSL001J-400, CCSL001L-400	SOLENOID 75	
GOOD	CSL	001	C-GSD013-400ZSC	#14	1/C	2	CSL001-400JB	GSD013-400ZSC	CCSL001-400, CCSL001J-400, CCSL001K-400	DIVERTER GATE CLOSE	
GOOD	CSL	001	C-GSD013-400ZSO	#14	1/C	2	CSL001-400JB	GSD013-400ZSO	CCSL001-400, CCSL001J-400, CCSL001M-400	DIVERTER GATE OPEN	
GOOD	CSL	001	P-CSL001-400	#10	4/C	1	HSC001-400CP	CSL001-400	PCS001A-400, PT-14, PT-16, PT-19, PCSL001-400	SLUDGE SCREW CONVEYOR #1 POWER	
GOOD	DFP	001	P-DFP001-400AF	#6	4/C	1	MCC045-400A	DFP001-400AF	PDFP001B-400AF, PT-5, PT-6, PDFP001A-400AF		
GOOD	DFP	001	P-DFP001-400	#6	1/C	4	DFP001-400AF	DFP001-400MO	PDFP001-400, PDFP001A-400	VFD SHIELDED CABLE	
GOOD	DFP	001	C-DFP001-400CS2	#14	1/C	4	DFP001-400AF	DFP001-400CS2	CDFP001-400, CDFP001B-400, CDFP001D-400, CDFP001E-400		
GOOD	DFP	001	C-DFP001-400HTR	#14	1/C	2	DFP001-400AF	DFP001-400HTR	CDFP001-400, CDFP001A-400, PDFP001A-400		
GOOD	DFP	001	C-DFP001-400PSH	#14	1/C	4	DFP001-400AF	DFP001-400PSH	CDFP001-400, CDFP001B-400, CDFP001C-400		
GOOD	DFP	001	C-DFP001-400PSL	#14	1/C	4	DFP001-400AF	DFP001-400PSL	CDFP001-400, CDFP001B-400, CDFP001D-400, CDFP001F-400		
GOOD	DFP	001	C-DFP001-400TS	#14	1/C	2	DFP001-400AF	DFP001-400TS	CDFP001-400, CDFP001A-400, PDFP001A-400		
GOOD	DFP	001	I-DFP001-400AF	#16	2/C - T.S.	2	DPJ-P1AD	DFP001-400AF	I4070-400, I4078-400, I4079-400, I4080-400, I4081-400, I4082-400, I4083-400, I4084-400, IP1AD-400		
GOOD	DFP	001	C-DFP001B-400AF	#14	19/C	1	DPJ-P2AD	DFP001-400AF	CP2AD-400, CT-9, CDFP001-400AF		
GOOD	DLP	001	P-SOV067-400	#12	1/C	3	SOV067-400CP	SOV067-400	P010A-400		
GOOD	DLP	001	P-SOV067-400CP	#12	1/C	3	SOV067-400CP	SOV068-400CP	P010-400, P011-400		
GOOD	DLP	001	C-SOV067-400CP	#14	1/C	3	SOV067-400CP	DPJ-P2AD	C049A-400, C049-400, C073-400, C072-400, C071-400, C070-400, C069-400, CP2AD-400		
GOOD	DLP	001	I-F400TG8001BFIT	#16	2/C T.S.	1	F400TG8001BFIT	DPJ-P1AD	I023-400, I047-400, I046-400, I045-400, I044-400, I043-400, IP1AD-400		
GOOD	DLP	001	P-F400TG8001BFIT	#12	3/C	1	F400TG8001BFIT	F400TG8002BFIT	P527-400, P528-400		
GOOD	DLP	001	C-V400TG8001BFS	#14	1/C	3	V400TG8001BFS	DPJ-P1EH	C049B-400, C049-400, C073-400, C072-400, C071-400, C070-400, C069-400, CP1EH-400		
GOOD	GDF	001	P-GDF001-400CP	#12	1/C	4	MCC045-400A	GDF001-400CP	PGDF001-400		
GOOD	GDF	001	P-GDF001-400	#12	1/C	4	GDF001-400CP	GDF001-400MO	PGDF001A-400		
GOOD	GDF	001	C-GDF001-400	#14	1/C	4	CGDF001-400CP	CGDF001-400CS2	CGDF001-400		
GOOD	GDF	001	C-GDF001-400CPJB	#14	1/C	12	DPJ-P2AD	CGDF001-400CPJB	CP2ADA-400, C011-400, C001-400		
GOOD	GPS	001	P-GPS001-400	#12	3/C & 1G	1	MCC045-400A	GPS001-400CP	PGPS001C-400, PT-14, PGPS001-400	Primary Sludge Grinder No 1	
GOOD	GPS	001	C-GPS001-400BCP	#14	12/C	1	GPS001-400CP	DPJ-P2AD	CP2AD-400, CT-1A, CGPS001-400		
GOOD	GPS	001	C-GPS001-400CS2	#14	1/C	4	GPS001-400CP	GPS001-400CS2	CGPS001A-400, CGPS001C-400		
GOOD	GPS	001	C-GPS001-400	#14	1/C	2	GPS001-400CP	GPS001-400MO	CGPS001A-400, CGPS001B-400, PGPS001B-400		
GOOD	GPS	001	C-SOV050-400MO	#14	1/C	2	JBGPS2-400	SOV050-400	CSOV050A-400, CSOV050B-400	SOV050 POWER	
GOOD	GPS	001	C-SOV050-400ZSO	#14	1/C	2	JBGPS2-400	SOV050-400	CSOV050A-400, CSOV050C-400, CSOV050E-400	SOV050 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV050-400ZSC	#14	1/C	2	JBGPS2-400	SOV050-400	CSOV050A-400, CSOV050C-400, CSOV050D-400	SOV050 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV056-400MO	#14	1/C	2	JBGPS2-400	SOV056-400	CSOV056A-400, CSOV056B-400	SOV056 POWER	
GOOD	GPS	001	C-SOV056-400ZSO	#14	1/C	2	JBGPS2-400	SOV056-400	CSOV056A-400, CSOV056C-400, CSOV056E-400	SOV056 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV056-400ZSC	#14	1/C	2	JBGPS2-400	SOV056-400	CSOV056A-400, CSOV056C-400, CSOV056D-400	SOV056 CLOSE LIMIT SWITCH	

STATUS	Device Prefix	Device No	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
GOOD	GPS	001	C-SOV057-400MO	#14	1/C	2	JBGPS2-400	SOV057-400	CSOV057A-400, CSOV057B-400	SOV057 POWER	
GOOD	GPS	001	C-SOV057-400ZSO	#14	1/C	2	JBGPS2-400	SOV057-400	CSOV057A-400, CSOV057C-400, CSOV057E-400	SOV057 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV057-400ZSC	#14	1/C	2	JBGPS2-400	SOV057-400	CSOV057A-400, CSOV057C-400, CSOV057D-400	SOV057 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV058-400MO	#14	1/C	2	JBGPS2-400	SOV058-400	CSOV058A-400, CSOV058B-400	SOV058 POWER	
GOOD	GPS	001	C-SOV058-400ZSO	#14	1/C	2	JBGPS2-400	SOV058-400	CSOV058A-400, CSOV058C-400, CSOV058E-400	SOV058 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV058-400ZSC	#14	1/C	2	JBGPS2-400	SOV058-400	CSOV058A-400, CSOV058C-400, CSOV058D-400	SOV058 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV059-400MO	#14	1/C	2	JBGPS2-400	SOV059-400	CSOV059A-400, CSOV059B-400	SOV059 POWER	
GOOD	GPS	001	C-SOV059-400ZSO	#14	1/C	2	JBGPS2-400	SOV059-400	CSOV059A-400, CSOV059C-400, CSOV059E-400	SOV059 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV059-400ZSC	#14	1/C	2	JBGPS2-400	SOV059-400	CSOV059A-400, CSOV059C-400, CSOV059D-400	SOV059 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV051-400MO	#14	1/C	2	JBGPS1-400	SOV051-400	CSOV051A-400, CSOV051B-400	SOV051 POWER	
GOOD	GPS	001	C-SOV051-400ZSO	#14	1/C	2	JBGPS1-400	SOV051-400	CSOV051A-400, CSOV051C-400, CSOV051E-400	SOV051 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV051-400ZSC	#14	1/C	2	JBGPS1-400	SOV051-400	CSOV051A-400, CSOV051C-400, CSOV051D-400	SOV051 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV052-400MO	#14	1/C	2	JBGPS1-400	SOV052-400	CSOV052A-400, CSOV052B-400	SOV052 POWER	
GOOD	GPS	001	C-SOV052-400ZSO	#14	1/C	2	JBGPS1-400	SOV052-400	CSOV052A-400, CSOV052C-400, CSOV052E-400	SOV052 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV052-400ZSC	#14	1/C	2	JBGPS1-400	SOV052-400	CSOV052A-400, CSOV052C-400, CSOV052D-400	SOV052 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV053-400MO	#14	1/C	2	JBGPS1-400	SOV053-400	CSOV053A-400, CSOV053B-400	SOV053 POWER	
GOOD	GPS	001	C-SOV053-400ZSO	#14	1/C	2	JBGPS1-400	SOV053-400	CSOV053A-400, CSOV053C-400, CSOV053E-400	SOV053 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV053-400ZSC	#14	1/C	2	JBGPS1-400	SOV053-400	CSOV053A-400, CSOV053C-400, CSOV053D-400	SOV053 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV054-400MO	#14	1/C	2	JBGPS1-400	SOV054-400	CSOV054A-400, CSOV054B-400	SOV054 POWER	
GOOD	GPS	001	C-SOV054-400ZSO	#14	1/C	2	JBGPS1-400	SOV054-400	CSOV054A-400, CSOV054C-400, CSOV054E-400	SOV054 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV054-400ZSC	#14	1/C	2	JBGPS1-400	SOV054-400	CSOV054A-400, CSOV054C-400, CSOV054D-400	SOV054 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV055-400MO	#14	1/C	2	JBGPS1-400	SOV055-400	CSOV055A-400, CSOV055B-400	SOV055 POWER	
GOOD	GPS	001	C-SOV055-400ZSO	#14	1/C	2	JBGPS1-400	SOV055-400	CSOV055A-400, CSOV055C-400, CSOV055E-400	SOV055 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV055-400ZSC	#14	1/C	2	JBGPS1-400	SOV055-400	CSOV055A-400, CSOV055C-400, CSOV055D-400	SOV055 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-JBGP51-400	#14	1/C	30	GPSVCP-400	JBGPS1-400	CJBGPS1-400	DIGITAL TO JB FROM VCP	
GOOD	GPS	001	C-JBGP51-400	#14	1/C	30	GPSVCP-400	JBGPS2-400	CJBGPS2-400	DIGITAL TO JB FROM VCP	
GOOD	GPS	001	P-GPSVCP-400	#12	1/C	3	GPSVCP-400	BCP002-400	PGPSVCP-400	VALVE CP 120V POWER	
GOOD	GPS	001	C-GPSVCPA-400	#14	25/C	4	GPSVCP-400	DPU-P1EH	CGPSVCP-400, DPU-P1EH	VALVE CP TO DPU	
GOOD	GPS	001	C-GPSVCPB-400	#14	25/C	1	GPSVCP-400	DPU-P2AD	CGPSVCP-400, DPU-P2AD	VALVE CP TO DPU	
GOOD	GWS	001	P-GWS001-400	#12	4/C	1	MCC046-400A	GWS001-400CP	PGWS001C-400, PT-14, PGWS001-400	Mix Room Grinder No 1 (Waste Sludge Grinder No 1)	
GOOD	GWS	001	C-GWS001-400HTR	#14	1/C	2	GWS001-400CP	GWS001-400HTR	CGWS001A-400, CGWS001B-400, PGWS001B-400	Mix Room Grinder No 1 (Waste Sludge Grinder No 1)	
GOOD	GWS	001	P-GWS001A-400	#12	1/C	4	GWS001-400CP	GWS001-400MO	PGWS001A-400, PGWS001B-400	Mix Room Grinder No 1 (Waste Sludge Grinder No 1)	
GOOD	GWS	001	C-GWS001A-400CP	#14	19/C	1	DPU-P1EH	GWS001-400CP	CP1EH-400, CT-1A, CGWS001A-400, CGWS001-400		
GOOD	GWS	001	C-GWS001B-400CP	#14	19/C	1	DPU-P2AD	GWS001-400CP	CP2AD-400, CT-1A, CGWS001A-400, CGWS001-400		
GOOD	GWS	001	C-SOV131-400MO	#14	1/C	2	JBGWS2-400	SOV131-400	CSOV131A-400, CSOV131B-400	SOV131 POWER	
GOOD	GWS	001	C-SOV131-400ZSO	#14	1/C	2	JBGWS2-400	SOV131-400	CSOV131A-400, CSOV131C-400, CSOV131E-400	SOV131 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV131-400ZSC	#14	1/C	2	JBGWS2-400	SOV131-400	CSOV131A-400, CSOV131C-400, CSOV131D-400	SOV131 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV132-400MO	#14	1/C	2	JBGWS2-400	SOV132-400	CSOV132A-400, CSOV132B-400	SOV132 POWER	
GOOD	GWS	001	C-SOV132-400ZSO	#14	1/C	2	JBGWS2-400	SOV132-400	CSOV132A-400, CSOV132C-400, CSOV132E-400	SOV132 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV132-400ZSC	#14	1/C	2	JBGWS2-400	SOV132-400	CSOV132A-400, CSOV132C-400, CSOV132D-400	SOV132 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV133-400MO	#14	1/C	2	JBGWS2-400	SOV133-400	CSOV133A-400, CSOV133B-400	SOV133 POWER	
GOOD	GWS	001	C-SOV133-400ZSO	#14	1/C	2	JBGWS2-400	SOV133-400	CSOV133A-400, CSOV133C-400, CSOV133E-400	SOV133 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV133-400ZSC	#14	1/C	2	JBGWS2-400	SOV133-400	CSOV133A-400, CSOV133C-400, CSOV133D-400	SOV133 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV134-400MO	#14	1/C	2	JBGWS2-400	SOV134-400	CSOV134A-400, CSOV134B-400	SOV134 POWER	
GOOD	GWS	001	C-SOV134-400ZSO	#14	1/C	2	JBGWS2-400	SOV134-400	CSOV134A-400, CSOV134C-400, CSOV134E-400	SOV134 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV134-400ZSC	#14	1/C	2	JBGWS2-400	SOV134-400	CSOV134A-400, CSOV134C-400, CSOV134D-400	SOV134 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV135-400MO	#14	1/C	2	JBGWS2-400	SOV135-400	CSOV135A-400, CSOV135B-400	SOV135 POWER	
GOOD	GWS	001	C-SOV135-400ZSO	#14	1/C	2	JBGWS2-400	SOV135-400	CSOV135A-400, CSOV135C-400, CSOV135E-400	SOV135 OPEN LIMIT SWITCH	

STATUS	Device Prefix	Device No	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
GOOD	GWS	001	C-SOV135-400ZSC	#14	1/C	2	JBGWS2-400	SOV135-400	CSOV135A-400, CSOV135C-400, CSOV135D-400	SOV135 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV136-400MO	#14	1/C	2	JBGWS3-400	SOV136-400	CSOV136A-400, CSOV136B-400	SOV136 POWER	
GOOD	GWS	001	C-SOV136-400ZSO	#14	1/C	2	JBGWS3-400	SOV136-400	CSOV136A-400, CSOV136C-400, CSOV136E-400	SOV136 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV136-400ZSC	#14	1/C	2	JBGWS3-400	SOV136-400	CSOV136A-400, CSOV136C-400, CSOV136D-400	SOV136 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV137-400MO	#14	1/C	2	JBGWS3-400	SOV137-400	CSOV137A-400, CSOV137B-400	SOV137 POWER	
GOOD	GWS	001	C-SOV137-400ZSO	#14	1/C	2	JBGWS3-400	SOV137-400	CSOV137A-400, CSOV137C-400, CSOV137E-400	SOV137 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV137-400ZSC	#14	1/C	2	JBGWS3-400	SOV137-400	CSOV137A-400, CSOV137C-400, CSOV137D-400	SOV137 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV138-400MO	#14	1/C	2	JBGWS3-400	SOV138-400	CSOV138A-400, CSOV138B-400	SOV138 POWER	
GOOD	GWS	001	C-SOV138-400ZSO	#14	1/C	2	JBGWS3-400	SOV138-400	CSOV138A-400, CSOV138C-400, CSOV138E-400	SOV138 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV138-400ZSC	#14	1/C	2	JBGWS3-400	SOV138-400	CSOV138A-400, CSOV138C-400, CSOV138D-400	SOV138 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV139-400MO	#14	1/C	2	JBGWS3-400	SOV139-400	CSOV139A-400, CSOV139B-400	SOV139 POWER	
GOOD	GWS	001	C-SOV139-400ZSO	#14	1/C	2	JBGWS3-400	SOV139-400	CSOV139A-400, CSOV139C-400, CSOV139E-400	SOV139 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV139-400ZSC	#14	1/C	2	JBGWS3-400	SOV139-400	CSOV139A-400, CSOV139C-400, CSOV139D-400	SOV139 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV140-400MO	#14	1/C	2	JBGWS1-400	SOV140-400	CSOV140A-400, CSOV140B-400	SOV140 POWER	
GOOD	GWS	001	C-SOV140-400ZSO	#14	1/C	2	JBGWS1-400	SOV140-400	CSOV140A-400, CSOV140C-400, CSOV140E-400	SOV140 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV140-400ZSC	#14	1/C	2	JBGWS1-400	SOV140-400	CSOV140A-400, CSOV140C-400, CSOV140D-400	SOV140 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV141-400MO	#14	1/C	2	JBGWS1-400	SOV141-400	CSOV141A-400, CSOV141B-400	SOV141 POWER	
GOOD	GWS	001	C-SOV141-400ZSO	#14	1/C	2	JBGWS1-400	SOV141-400	CSOV141A-400, CSOV141C-400, CSOV141E-400	SOV141 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV141-400ZSC	#14	1/C	2	JBGWS1-400	SOV141-400	CSOV141A-400, CSOV141C-400, CSOV141D-400	SOV141 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV142-400MO	#14	1/C	2	JBGWS1-400	SOV142-400	CSOV142A-400, CSOV142B-400	SOV142 POWER	
GOOD	GWS	001	C-SOV142-400ZSO	#14	1/C	2	JBGWS1-400	SOV142-400	CSOV142A-400, CSOV142C-400, CSOV142E-400	SOV142 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV142-400ZSC	#14	1/C	2	JBGWS1-400	SOV142-400	CSOV142A-400, CSOV142C-400, CSOV142D-400	SOV142 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV143-400MO	#14	1/C	2	JBGWS1-400	SOV143-400	CSOV143A-400, CSOV143B-400	SOV143 POWER	
GOOD	GWS	001	C-SOV143-400ZSO	#14	1/C	2	JBGWS1-400	SOV143-400	CSOV143A-400, CSOV143C-400, CSOV143E-400	SOV143 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV143-400ZSC	#14	1/C	2	JBGWS1-400	SOV143-400	CSOV143A-400, CSOV143C-400, CSOV143D-400	SOV143 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV144-400MO	#14	1/C	2	JBGWS1-400	SOV144-400	CSOV144A-400, CSOV144B-400	SOV144 POWER	
GOOD	GWS	001	C-SOV144-400ZSO	#14	1/C	2	JBGWS1-400	SOV144-400	CSOV144A-400, CSOV144C-400, CSOV144E-400	SOV144 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV144-400ZSC	#14	1/C	2	JBGWS1-400	SOV144-400	CSOV144A-400, CSOV144C-400, CSOV144D-400	SOV144 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-JBGWS1-400	#14	1/C	30	GWSVCP-400	JBGWS1-400	CJBGWS1-400	DIGITAL TO JB FROM VCP	
GOOD	GWS	001	C-JBGWS2-400	#14	1/C	30	GWSVCP-400	JBGWS2-400	CJBGWS2-400	DIGITAL TO JB FROM VCP	
GOOD	GWS	001	C-JBGWS3-400	#14	1/C	30	GWSVCP-400	JBGWS3-400	CJBGWS3-400	DIGITAL TO JB FROM VCP	
GOOD	GWS	001	P-GWSVCP-400	#12	1/C	3	GWSVCP-400	BCP002-400	PGWSVCP-400	VALVE CP 120V POWER	
GOOD	GWS	001	C-GWSVCPA-400	#14	19/C	2	GWSVCP-400	DPU-P1EH	CGWSVCP-400, DPU-P1EH	VALVE CP TO DPU	
GOOD	GWS	001	C-GWSVCPB-400	#14	25/C	3	GWSVCP-400	DPU-P2AD	CGWSVCP-400, DPU-P2AD	VALVE CP TO DPU	
GOOD	GWS	001	C-GWSVCP-400	#14	25/C	2	GWSVCP-400	DPU-P2EH	CGWSVCP-400, DPU-P2EH	VALVE CP TO DPU	
GOOD	HSC	001	P-HSC001-400CP	350&G	3C&G	1	USS015-400	HSC001-400CP	PHSC001L-400, PT-10, PHSC001A-400		
GOOD	HSC	001	P-HSC001A-400	370&G	3C&G	1	HSC001-400CP	HSC001-400MO	PHSC001C-400, PT-1, PHSC001G-400	VFD SHIELDED CABLE, 2000V CABLE	
GOOD	HSC	001	P-HSC001B-400	41&G	3C&G	1	HSC001-400CP	HSC001-400MOB	PHSC001E-400, PT-1, PHSC001J-400	VFD SHIELDED CABLE, 2000V CABLE	
GOOD	HSC	001	P-HSC001-400MO	#12	3/C	1	HSC001-400CP	HSC001-400MO	PHSC001B-400, PT-16, PHSC001H-400	120V-P TO BOWL MOTOR	
GOOD	HSC	001	P-HSC001-400MOB	#12	3/C	1	HSC001-400CP	HSC001-400MOB	PHSC001B-400, PT-16, PHSC001K-400	120V-P TO SCROLL MOTOR	
GOOD	HSC	001	C-HSC001-400MOB	#16	3/C SHLD	1	HSC001-400CP	HSC001-400MOB	CHSC001SM-400	24V-C TO SCROLL MOTOR	
GOOD	HSC	001	C-HSC001-400MO	#16	3/C SHLD	1	HSC001-400CP	HSC001-400MO	CHSC001BM-400	24V-C TO BOWL MOTOR	
GOOD	HSC	001	C-HSC001-400X6JB	#14	5/C	1	HSC001-400CP	HSC001-400X6JB	CHSC001B-400, CT-3, CHSC001X6-400	120V-C TO X6JB	
GOOD	HSC	001	C-HSC001-400X47JB	#14	9/C	1	HSC001-400CP	HSC001-400X47JB	CHSC001B-400, CT-3, CHSC001X47-400	120V-C TO X47JB	
GOOD	HSC	001	C-HSC001-400X48JB	#14	5/C	1	HSC001-400CP	HSC001-400X48JB	CHSC001B-400, CT-3, CHSC001X48-400	120V-C TO X48JB	
GOOD	HSC	001	C-HSC001-400BLV059	#14	3/C	1	HSC001-400CP	HSC001-400BLV059	CHSC001B-400, CT-3, CHSC001CFW-400, CHSC001CFWB-400	120V-C TO BALL VALVE	
GOOD	HSC	001	C-HSC001-400FWFS	#14	3/C	1	HSC001-400CP	HSC001-400FWFS	CHSC001B-400, CT-3, CHSC001CFW-400, CHSC001CFA-400	120V-C TO FLOW SWITCH	

STATUS	Device Prefix	Device No.	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
GOOD	HSC	001	P-HSC001-400BLV059	#12	3/C	1	HSC001-400CP	HSC001-400BLV059	PHSC001B-400, PT-16, PHSC001CFW-400	120V-P TO BALL VALVE	
GOOD	HSC	001	I-HSC001-400UBA	#16	2/C T.S.	2	HSC001-400CP	HSC001-400UB	IHSC001A-400	ANALOG MCP TO IJB	
GOOD	HSC	001	I-HSC001-400UBB	#16	3/C T.S.	9	HSC001-400CP	HSC001-400UB	IHSC001A-400	ANALOG MCP TO IJB	
GOOD	HSC	001	I-HSC001-400X11JB	#16	3/C T.S.	2	HSC001-400UB	HSC001-400X11JB	IHSC001X11-400	ANALOG TO X11 JB	
GOOD	HSC	001	I-HSC001-400X47JBA	#16	2/C T.S.	2	HSC001-400UB	HSC001-400X47JB	IHSC001X47-400	ANALOG TO X47 JB	
GOOD	HSC	001	I-HSC001-400X47JBB	#16	3/C T.S.	2	HSC001-400UB	HSC001-400X47JB	IHSC001X47-400	ANALOG TO X47 JB	
GOOD	HSC	001	I-HSC001-400X10JB	#16	3/C T.S.	2	HSC001-400UB	HSC001-400X10JB	IHSC001X10-400	ANALOG TO X10 JB	
GOOD	HSC	001	I-HSC001-400X60JB	#16	3/C T.S.	3	HSC001-400UB	HSC001-400X60JB	IHSC001X60-400	ANALOG TO X60 JB	
GOOD	HSC	001	I-HSC001-400X20JB	#16	3/C T.S.	2	HSC001-400LCP	HSC001-400X20JB	IHSC001X20-400	ANALOG TO X20 JB	
GOOD	HSC	001	C-HSC001-400LCP	#14	19/C	1	HSC001-400CP	HSC001-400LCP	CHSC001B-400, CT-3, CHSC001D-400	120V-C TO LOCAL CP	
GOOD	HSC	001	P-HSC001-400LCP	#10	3/C	1	HSC001-400CP	HSC001-400LCP	PHSC001B-400, PT-16, PHSC001Q-400	120V-P TO LOCAL CP	
GOOD	HSC	001	I-HSC001-400LCP	ETHERNET	ETHERNET	1	HSC001-400CP	HSC001-400LCP	IHSC001F-400	ANALOG TO LOCAL CP	
GOOD	HSC	001	P-HSC001C-400	#12	3/C	1	HSC001-400CP	BCP001-400	PHSC001B-400, PT-16, PHSC001D	120V-P FROM POWER PANEL	
GOOD	HSC	001	I-HSC001C-400	#16	2/C T.S.	3	HSC001-400CP	DPU-P1AD	IHSC001C-400, I4103-400, I4105-400, IP2AD-400	ANALOG TO DPU	
GOOD	HSC	001	C-HSC001A-400	#16	19/C	2	HSC001-400CP	DPU-P2AD	CHSC001A-400, CT-1, CP2AD-400	DIGITAL TO DPU	
GOOD	HSC	001	I-HSC001B-400	ETHERNET	ETHERNET	1	HSC001-400CP	DPU-P1EH	IHSC001B-400, I4109-400, I4110, IP1EH-400	ETHERNET TO DPU	
GOOD	HSC	001	C-HSC001B-400	#14	12/C	1	HSC001-400IP	DPU-P2AD	CHSC001E-400, CT-3, CP2AD-400	DIGITAL IP TO DPU	
GOOD	HSC	001	I-HSC001D-400	#16	2/C T.S.	4	HSC001-400IP	DPU-P1AD	IHSC001D-400, I4114-400, I4115-400, I4116-400, I4117-400, I4118-400, I4119-400, IP1AD-400	ANALOG IP TO DPU	
GOOD	HSC	001	I-HSC001E-400	ETHERNET	ETHERNET	1	HSC001-400IP	DPU-P1EH	IHSC001E-400, I4120-400, I4121-400, I4122-400, I4123-400, I4124, I4125-400, IP1EH-400	ETHERNET IP TO DPU	