



SEPTEMBER 30, 2024

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CONTRACT No. 1799

**SOLIDS THICKENING AND DEWATERING
IMPROVEMENTS**

ADDENDUM No. 4

All bidders bidding **Contract No. 1799** shall read and take note of this **Addendum No. 4**. 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. 4

The Acknowledgement attached to **Addendum No. 4** 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

Addendum No. 4

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September 30, 2024

ACKNOWLEDGEMENT OF

CONTRACT NO. 1799

SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

ADDENDUM NUMBER 4

FIRM NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

SEPTEMBER 30, 2024

CONTRACT NO. 1799

SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

ADDENDUM NO. 4

ADDENDUM NO. 4

ALLEGHENY COUNTY SANITARY AUTHORITY
PITTSBURGH, PENNSYLVANIA

CONTRACT NO. 1799
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS PROJECT

SEPTEMBER 30, 2024

BID OPENING DATE
FRIDAY, OCTOBER 4, 2024
11:00 A.M.

This Addendum No. 4 consists of 12 pages and the following attachments:

Attachment A – Cable Schedule – Excel File

Attachment B – Addendum No. 4 Drawings – 22” x 34” (15 pages)

Attachment C – Contract 1791 Dewatering Centrifuge Pre-Purchase Schedule – 11” x 17” (6 pages)

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. 4 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. CHANGES TO PREVIOUS ADDENDA

- 1.1 The Cable Schedule (Excel file), included in Attachment A of this Addendum No. 4, supersedes the Cable Schedule included with Addendum No. 2.

2. CHANGES TO THE BIDDING DOCUMENTS

- 2.1 None.

3. CHANGES TO THE TECHNICAL SPECIFICATIONS

- 3.1 In the Table of Contents, add “Attachment C Contact No. 1791 – Dewatering Centrifuge Equipment Pre-Purchase Schedule” to the end of Volume IV.
- 3.2 In Specification Section 01 73 29 “Demolition, Cutting and Patching,” **DELETE** Para. 3.4 in its entirety and **REPLACE** with the following:

“3.4 SCHEDULE

1. Items to be Salvaged for Owner:

Equipment/Material Name/Designation	Equipment/Material Location	Deliver to Owner's Location	Notes
Dewatering Centrifuge (Qty: 1)	Dewatering Building	TBD	Owner to select which centrifuge to salvage during construction.”

- 3.3 In Specification Section 01 74 23 “Cleaning,” **DELETE** Para. 3.2.D. in its entirety.
- 3.4 Add “Attachment C, Contract No. 1791 – Dewatering Centrifuge Equipment Pre-Purchase Schedule” to the end of Volume IV.

4. CHANGES TO THE DRAWINGS

- 4.1 **REMOVE** and **REPLACE** Sheets 000-E-013, 000-E-014, 000-E-015, 000-E-016, 000-E-017, 000-E-018, 000-E-019, and 000-E-020 from Attachment B in this Addendum No. 4.
- 4.2 **REMOVE** and **REPLACE** Sheets 000-ID-005, 000-ID-006, 000-ID-007, 000-ID-008, 000-ID-009, 000-ID-010, and 000-ID-011 from Attachment B in this Addendum No. 4.

5. QUESTIONS AND ANSWERS

Q1: In reference to Exhibit A-3 that requires Owner Protective Liability coverage, please confirm that it is acceptable to provide “per project limits” on the commercial general liability policy in lieu of a separate Owners Contractors Protective Liability Policy (OCP) that is stated to be required by addendum.

A1: Bid as specified.

Q2: Specification 015200 Section 1.2-J suggests that centrifuge numbers 3, 4, and 5 be installed with the existing screw conveyors due to the centrifuge delivery schedule. Section 1.12 only discusses centrifuge 3 being installed with an existing screw conveyor. Please clarify.

A2: Section 01 52 00, Para. 1.2.J states that delivery of the centrifuges will probably precede the delivery of the new sludge screw conveyors. It also states that Centrifuge No. 3 should be replaced first and that its associated existing sludge screw conveyor be maintained. The paragraph also states that the next two centrifuges to be replaced should be No. 1 next followed by No. 2. Each would utilize their existing sludge screw conveyor. This is also called out in Para. 1.12.B.1 and 2.

Q3: Specification 015200 Section 1.2-K both discuss Effluent Water piping in the Dewatering building. Please confirm that these sections describe the same work/sequence/temporary piping and not two distinct scopes.

A3: Section 01 52 00, Para. 1.2.K describes the replacement sequence of the existing 6-in and 4-in EWH piping on the second floor of the Dewatering Bldg., with new DI piping improvements and new connections for temporary effluent water use.

Q4: Specification 017423 includes language requiring cleaning during construction and final cleaning after construction is complete. Many of the work areas are not clean now. The primary sludge pumping stations have been splattered with sewage for decades. Is the scope of the project to keep the work areas as clean as they are now or to a higher standard? If we are to clean to a higher standard, is this expected during construction or after final cleaning?

- A4:** Bid as specified. Reference Section 017423, specifically paragraph 3.4.A.
- Q5:** Specification 017423 Section 3.2-D includes language regarding dust control, weed-whacking, and snow removal. Considering that this work is entirely indoors and in several different buildings, can the limits of this Exterior Cleaning be defined?
- A5:** See Changes to the Technical Specifications in this Addendum No. 4. The Owner will not remove snow in the laydown areas. Contractors will have to perform this for their own access requirements.
- Q6:** Drawing 000-G-006 identifies very little laydown space for the Solids Thickening Contractor with more than half being unavailable until May 2025. The drawing also indicates the laydown areas for the East Headworks Contractor ending June 2025 (only one month later). Does this space become available to the Solids Thickening Contractor after June 2025?
- A6:** Bid as specified, no additional space is available. If the East Headworks Project does not finish by May 2025, those Contractor(s) will be vacating these areas identified as laydown for this project.
- Q7:** Specification 011100 Section 1.14-B lists the Dewatering Feed Tanks as a Confined Space. Does the scope of the project include entering the Dewatering Feed Tanks?
- A7:** No, the scope of work does not include entering the Dewatering Feed Tanks.
- Q8:** Specification 011120 Section 1.3-D states "General Contractor will prepare Coordination Drawings as required to coordinate all portions of work". Does this imply that the 1799G Contractor is responsible for creating and submitting Electrical, Heating, and Plumbing Coordination Drawings?
- A8:** The General Contractor is responsible for coordinating with other prime contractors on Coordination Drawings for the project. The General Contractor is solely responsible for submitting Coordination Drawings to the Construction Manager for approval.
- Q9:** Specification 015000 Section 1.12 states "The General Contractor will provide temporary facilities and piping required to bring water to the point of use and remove them when no longer required." Is it intended for the 1799G Contractor to subcontract Plumbing work?
- A9:** The General Contractor can provide all temporary water work under Contract 1799G, or they can elect to subcontract temporary water to the Plumbing Contractor under Contract 1799P. Most water connections available to the Contractors for this project will be connections to the Plant Effluent Water system, which is a non-potable source.

- Q10:** Specification 015200 Section 1.2-G describes the components of the new thickening system to be tested and started-up in two phases. Specification 017116 Attachment 1 shows 17 days of testing and 10 days of start-up. Between the two phases, is this intended to be 54 days of testing and start-up? Does this conflict with the maximum outage duration of described in Specification 015200 Section 1.6-A-2? Does this conflict with the 5-day operational/acceptance period described in Specification 015200 Section 1.2-G-3 and/or Specification 017500 Section 3.9? Similar issues exist with other equipment.
- A10:** The number of days listed in Attachment 1 of Section 01 71 16 is the total minimum day requirements for each category of services. For Assistance during Installation and Inspection of the six GBTs, 12 days is listed which accounts for 2 days per GBT. For Acceptance/Performance Testing and Installation Certification for the six GBTs, 17 days are listed which accounts for one 5-day performance test and 2 days per GBT for installation certification, check-out, and acceptance testing. For Facility Startup of the six GBTs, 10 days are listed which accounts for two 5-day facility start-ups of the GBTs. Note that the 5-day performance testing of the GBT will most likely be conducted sometime after the 5-day facility start-up. This does not conflict with the other descriptions in Section 01 52 00.
- Q11:** Specification 015200 establishes several outage duration time limits. After the installation, Alcosan would presumably put each piece of equipment into service as soon as possible to end the outage. Specification 017500 Section 3.2-E describes the following processes after work is complete and ready for inspection: Inspect within 10 days of notice, inform Contractor if findings within 14 days of notice, reinspect within 5 days of any reported deficiencies, Alcosan requests partial beneficial occupancy, Contractor agrees to partial beneficial occupancy, Engineer agrees to partial beneficial occupancy, Alcosan and Contractor's insurance providers both acknowledge occupancy. This appears to conflict with the most of the specified outage durations, certainly the durations that are less than 5 days. Please clarify.
- A11:** Section 01 75 00 Para. 3.2.E relates to the Contractor's Notice of Substantial Completion of the overall Contract. Section 01 52 00 relates to the required construction sequencing and allowable shutdowns to maintain plant operation; outages do not necessarily correlate to achievement of Substantial Completion. Work completed during the shutdowns will need to be inspected by the Engineer, approved by the ALCOSAN and Engineer, and documented for Beneficial Occupancy/Warranties purposes. Most of this inspection will occur during the startup and checkout period. All work will need to be complete on the system prior to issuance of Beneficial Occupancy. The Contractor is ultimately responsible for providing a complete system for startup and checkout.

- Q12:** Specification 017500 Section 3.9 describes Final Acceptance of equipment after a 5-day operational/acceptance period. This specification also describes Physical Check-out and Performance Testing. Is Physical Check-out and Performance Testing waived for items listed with 5-day acceptance periods?
- A12:** In general, all new equipment needs to be installed properly and inspected. Then the installation needs to be checked out and certified ready for functional testing and acceptance testing with water and started-up with sludge. After operating successfully for 5 days, defined as the Facility Startup period, the equipment can be accepted for normal operation by the Owner. When placed into normal operation and processing sludge, the equipment can then be performance tested in accordance with the process equipment specifications. When performance of the equipment has been verified, final acceptance of the equipment can be granted. In some cases, the performance tests for some pieces of equipment (e.g. pumps, etc.) can be performed during the start of the Facility Startup period, but for equipment with extensive testing requirements, performance testing should be done after the equipment has demonstrated it is reliable. Any equipment with an additional Final Acceptance test requirement is additional to any startup and checkout period activity and does not waive any other startup requirements.
- Q13:** Specification 017836 describes Warranties and Guarantees starting after Substantial Completion. The project scope, schedule, and Specification 015200 requires putting equipment into service on a regular basis. Who is responsible for a piece of equipment that has a warranty claim after Alcosan puts that piece of equipment into service and assumes care, custody, and control but before Substantial Completion?
- A13:** The Contractor is responsible for equipment warranty claims prior to Substantial Completion of the project, except if beneficial occupancy is granted for a piece of equipment and the specified warranty period expires prior to Substantial Completion of the project. The Contractors are still responsible during the specified warranty period after the agreed upon start date of the warranty regardless if granted during the project as part of the Beneficial Occupancy procedure or with Substantial Completion milestones.
- Q14:** Please provide a list of existing equipment being removed that needs to be cleaned, salvaged, and turned over to the owner.
- A14:** See Changes to the Technical Specifications in this Addendum No. 4.
- Q15:** Vibration testing spec 01 61 03
This requirement is included in the pump specs 432313, 432335, 432337. If a third party is required can you suggest a testing company. The pump company will do their due diligence during startup but not to this extent.
- A15:** Third party vibration testing companies: Mechanical Solutions Inc. (Whippany, NJ), Engineering Dynamics Inc. (San Antonio, TX), or equal.

- Q16:** Specification 015200 lists Specific Work Areas Items 1.6 thru 1.33 include a paragraph #2 with a Maximum Duration of the shutdown and a paragraph #5 Description of Work at Completion of Shutdown. Please advise if the Work at Completion of Shutdown items (Pressure testing/functional testing/startup/acceptance/performance testing & commissioning) are included or excluded in the Maximum Durations. If they are or are not included, please provide your maximum duration for these paragraph #5 activities for each Work Area.
- A16:** Specification Section 01 52 00, Para.'s 1.6 thru 1.33 all include a Para. 5 that identifies the Work at Completion of Shutdown. All defined work in Para. 5 (pressure testing, functional testing, commissioning, etc.) is part of the shutdown and is included in the Maximum Duration defined in Para. 3. Completion of the shutdown is defined when the new facilities are placed back into operation/commissioned. No further breakdowns of this duration will be provided.
- Q17:** Specification 015200 includes Item 1.2 General Constraints, paragraphs A thru X and Work Areas Items 1.6 thru 1.33. One item is identified as required for the interim construction milestone of 614 days for the Partial Substantial Completion. Please identify all the General Constraints and/or Work Areas that are required for the 614 day partial substantial completion and those that are required for the 777 day project substantial completion.
- A17:** Specification Section 01 52 00, Para. 1.2.G and Section 01 11 00 "Summary of Work" identifies all areas of work that need to be completed for Partial Substantial Completion. There are no changes to the specifications in this Addendum No. 4. Note that the milestone for Partial Substantial Completion was revised in Addendum No. 3.
- Q18:** Based on the listing of General Constraints, Work Areas, Maximum Durations and the specific predecessors and successors requirements that are provided in Section 015200, it is evident that the owner and/or construction manager has developed a preliminary schedule for the project which should support the two project milestones of partial and project substantial completion. Please provide your project schedule, including the detail of the assumed durations for the submittal/approval/fabrication & delivery of all the equipment (process mechanical, hvac, plumbing, electrical equipment and process controls & instrumentation). Additionally, please confirm that if the equipment delivery is delayed beyond the assumed durations of your project schedule, that a time extension will be granted.

- A18:** A detailed project schedule, with a detail of all assumed durations for the submittal/approval/fabrication & delivery of all the equipment (process mechanical, HVAC, plumbing, electrical equipment and process controls & instrumentation) will not be provided. With regard your question about equipment delivery delays and potential time extensions (which we assume refers to the centrifuge deliveries), we cannot respond to this hypothetical. Time extensions will be addressed/evaluated when notice is received by a Contractor, as outlined in the project documents.
- Q19:** There are two models, Architectural export.dwg and Mechanical export.dwg which are not coordinately aligned with the rest of the models. Can these two models be provided coordinately aligned with other models or can the transform of these models (X,Y,Z) be provided so that we can align the models ourselves?
- A19:** For the mechanical export, set the basepoint to (0,0) and scale it down to a factor of 0.08333. For the architectural export, move the architectural model in Z direction by -11.375 feet, set the basepoint to (0,0), and scale it down to a factor of 0.08333.
- Q20:** Volume 4 of the documents includes the contract durations for the delivery of the 7 centrifuges which is tied to their NTP. Please provide the NTP date for the centrifuge contract and the subsequent delivery dates for the seven centrifuges.
- A20:** The centrifuge procurement schedule has been added to Volume IV in this Addendum No. 4.
- Q21:** Specification 016103-Section 1.2 describes a Natural Frequency Analysis Firm, Vibration Testing Program, and Infrared Thermography Testing Program. Which Prime Contract is each of these scope items in?
- A21:** Any testing relating to rotating and reciprocating equipment is under Contract 1799G. Any testing relating to electrical equipment is under Contract 1799E.
- Q22:** Specification 016103 Section 3.6-F states "Perform Infrared Thermography testing for equipment specified in other Divisions during the Equipment Demonstration Period. Perform on all rotating and reciprocating equipment having drivers 25HP or greater. Perform on electrical equipment and connections" Can this scope be better defined, both in terms of what equipment is to be analyzed, what electrical connections are to be analyzed, and the physical limitations of the building(s) that is to be analyzed?
- A22:** Bid as specified.
- Q23:** Specification 016103 Section 3.6-G states "Provide vibration testing on all rotating equipment and reciprocating equipment having driver 50HP and greater or as shown in the Equipment Vibration Testing Schedule". An Equipment Vibration Testing Schedule was not issued, but the project does

include motors larger than 50hp. Can this scope be better defined, both in terms of what equipment is to be analyzed and the physical limitations of the building(s) that is to be analyzed?

A23: Perform vibration testing on all pumps specified in Section 43 23 13.19 “Self-Priming Centrifugal Pumps” Para. 3.4.C., Section 43 23 35 “Recessed Impeller Pumps” Para. 3.4.C, and Section 43 23 37 “Screw Impeller Pumps” Para. 3.4.C.

Q24: Can the scope of the Natural Frequency analysis and reporting be better defined?

A24: Perform frequency analysis as part of the vibration testing on all pumps specified in Section 43 23 13.19 “Self-Priming Centrifugal Pumps” Para. 3.4.C., Section 43 23 35 “Recessed Impeller Pumps” Para. 3.4.C, and Section 43 23 37 “Screw Impeller Pumps” Para. 3.4.C.

Q25: The design of pipe supports is delegated to a Professional Engineer hired by the Contractor. Is it correct to assume that the weight of the pipes has been taken into account with the project design and confirming that the existing/new structures are sufficient to support the pipes is not included in the Contractor scope?

A25: Yes, it is correct that the weight of the pipes has been taken into account with the project design and that the existing /new structures are sufficient to support the pipes. However, the delegated design is still required to identify all estimated pipe support loads being transmitted to the structure to verify the structure is not over-stressed.

Q26: Specification 015200 Sections 1.20 and 1.22 establishes the maximum duration of the respective tank outage to be 6-weeks. We'd like to request that the duration be revised to 12 weeks.

A26: Bid as specified.

Q27: Specification 015200 Section 1-5-B requires the Contractor to obtain water disposal permits. Specification 410152.18 Section 1.11 states that all materials removed from tanks shall meet Federal, State, and Local requirements for off-site transportation and disposal. Is it correct to assume that any water or liquid waste generated by this project can but put into the Alcosan plant drain system?

A27: Any solids removed can be disposed of at the plant (typically in the ash pits that are located along the river near the Main Pump Station). Any liquids or washwater that needs to be removed can utilize the plant drainage system. Contractor shall notify the CM prior to dumping any solids.

END OF ADDENDUM No. 4

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
CSL	001	400	C-CSL001A-400	#14	25/C	2	HSC001-400CP	CSL001-400JB	CHSC001A-400, CT-3, CT-5, CCSL001-400	
CSL	001	400	C-CSL001-400CS2	#14	1/C	4	CSL001-400JB	CSL001-400CS2	CCSL001-400, CCSL001A-400, CCSL001D-400, CCSL001F-400, CCSL001H-400	E STOP
CSL	001	400	C-CSL001-400CS3	#14	1/C	2	CSL001-400JB	CSL001-400CS3	CCSL001-400, CCSL001A-400, CCSL001D-400, CCSL001E-400	PULL CORD
CSL	001	400	C-CSL001-400DS	#14	1/C	2	CSL001-400JB	CSL001-400DS	CCSL001-400, CCSL001A-400, CCSL001C-400	DOOR SWITCH 1
CSL	001	400	C-CSL001-400DS2	#14	1/C	2	CSL001-400JB	CSL001-400DS2	CCSL001-400, CCSL001A-400, CCSL001D-400, CCSL001F-400, CCSL001G-400	DOOR SWITCH 2
CSL	001	400	C-CSL001-400SSL	#14	1/C	4	CSL001-400JB	CSL001-400SSL	CCSL001-400, CCSL001A-400, CCSL001B-400	ZERO SPEED
CSL	001	400	C-SOV014-400	#14	1/C	4	CSL001-400JB	SOV014-400	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001P-400	SOLENOID 14
CSL	001	400	C-SOV021-400	#14	1/C	4	CSL001-400JB	SOV021-400	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Y-400	SOLENOID 21
CSL	001	400	C-SOV073-400	#14	1/C	4	CSL001-400JB	SOV073-400	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001S-400	SOLENOID 73
CSL	001	400	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
CSL	001	400	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
CSL	001	400	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
CSL	001	400	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
CSL	001	400	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
CSL	001	400	C-SOV075-400	#14	1/C	4	CSL001-400JB	SOV075-400	CCSL001-400, CCSL001J-400, CCSL001L-400	SOLENOID 75
CSL	001	400	C-GSD013-400ZSC	#14	1/C	2	CSL001-400JB	GSD013-400ZSC	CCSL001-400, CCSL001J-400, CCSL001K-400	DIVERTER GATE CLOSE
CSL	001	400	C-GSD013-400ZSO	#14	1/C	2	CSL001-400JB	GSD013-400ZSO	CCSL001-400, CCSL001J-400, CCSL001M-400	DIVERTER GATE OPEN
CSL	001	400	P-CSL001-400	#10	4/C	1	HSC001-400CP	CSL001-400	PCSL001A-400, PT-14, PT-16, PT-19, PCSL001-400	SLUDGE SCREW CONVEYOR #1 POWER
CSL	002	400	C-CSL002A-400	#14	25/C	2	HSC002-400CP	CSL002-400JB	CHSC002A-400, CT-3, CT-5, CCSL002-400	
CSL	002	400	C-CSL002-400CS2	#14	1/C	4	CSL002-400JB	CSL002-400CS2	CCSL002-400, CCSL002A-400, CCSL002D-400, CCSL002F-400, CCSL002H-400	E STOP
CSL	002	400	C-CSL002-400CS3	#14	1/C	2	CSL002-400JB	CSL002-400CS3	CCSL002-400, CCSL002A-400, CCSL002D-400, CCSL002E-400	PULL CORD
CSL	002	400	C-CSL002-400DS	#14	1/C	2	CSL002-400JB	CSL002-400DS	CCSL002-400, CCSL002A-400, CCSL002C-400	DOOR SWITCH 1
CSL	002	400	C-CSL002-400DS2	#14	1/C	2	CSL002-400JB	CSL002-400DS2	CCSL002-400, CCSL002A-400, CCSL002D-400, CCSL002F-400, CCSL002G-400	DOOR SWITCH 2
CSL	002	400	C-CSL002-400SSL	#14	1/C	4	CSL002-400JB	CSL002-400SSL	CCSL002-400, CCSL002A-400, CCSL002B-400	ZERO SPEED
CSL	002	400	C-SOV015-400	#14	1/C	4	CSL002-400JB	SOV015-400	CCSL002-400, CCSL002J-400, CCSL002N-400, CCSL002P-400	SOLENOID 15
CSL	002	400	C-SOV022-400	#14	1/C	4	CSL002-400JB	SOV022-400	CCSL002-400, CCSL002J-400, CCSL002N-400, CCSL002Y-400	SOLENOID 22
CSL	002	400	C-SOV076-400	#14	1/C	4	CSL002-400JB	SOV076-400	CCSL002-400, CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002S-400	SOLENOID 76
CSL	002	400	C-GSD021-400ZSC	#14	1/C	2	CSL002-400JB	GSD021-400ZSC	CCSL002-400, CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002R-400	SLIDE GATE NO 1 CLOSE
CSL	002	400	C-GSD021-400ZSO	#14	1/C	2	CSL002-400JB	GSD021-400ZSO	CCSL002-400, CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002T-400	SLIDE GATE NO 1 OPEN
CSL	002	400	C-SOV077-400	#14	1/C	4	CSL002-400JB	SOV077-400	CCSL002-400, CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002U-400, CCSL002W-400	SOLENOID 77
CSL	002	400	C-GSD022-400ZSC	#14	1/C	2	CSL002-400JB	GSD022-400ZSC	CCSL002-400, CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002U-400, CCSL002V-400	SLIDE GATE NO 2 CLOSE
CSL	002	400	C-GSD022-400ZSO	#14	1/C	2	CSL002-400JB	GSD022-400ZSO	CCSL002-400, CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002U-400, CCSL002X-400	SLIDE GATE NO 2 OPEN
CSL	002	400	C-SOV078-400	#14	1/C	4	CSL002-400JB	SOV078-400	CCSL002-400, CCSL002J-400, CCSL002L-400	SOLENOID 78
CSL	002	400	C-GSD023-400ZSC	#14	1/C	2	CSL002-400JB	GSD023-400ZSC	CCSL002-400, CCSL002J-400, CCSL002K-400	DIVERTER GATE CLOSE
CSL	002	400	C-GSD023-400ZSO	#14	1/C	2	CSL002-400JB	GSD023-400ZSO	CCSL002-400, CCSL002J-400, CCSL002M-400	DIVERTER GATE OPEN
CSL	002	400	P-CSL002-400	#10	4/C	1	HSC002-400CP	CSL002-400	PCSL002A-400, PT-14, PT-16, PT-19, PCSL002-400	SLUDGE SCREW CONVEYOR #2 POWER
CSL	003	400	C-CSL003A-400	#14	25/C	2	HSC003-400CP	CSL003-400JB	CHSC003A-400, CT-3, CT-5, CCSL003-400	
CSL	003	400	C-CSL003-400CS2	#14	1/C	4	CSL003-400JB	CSL003-400CS2	CCSL003-400, CCSL003A-400, CCSL003D-400, CCSL003F-400, CCSL003H-400	E STOP
CSL	003	400	C-CSL003-400CS3	#14	1/C	2	CSL003-400JB	CSL003-400CS3	CCSL003-400, CCSL003A-400, CCSL003D-400, CCSL003E-400	PULL CORD
CSL	003	400	C-CSL003-400DS	#14	1/C	2	CSL003-400JB	CSL003-400DS	CCSL003-400, CCSL003A-400, CCSL003C-400	DOOR SWITCH 1
CSL	003	400	C-CSL003-400DS2	#14	1/C	2	CSL003-400JB	CSL003-400DS2	CCSL003-400, CCSL003A-400, CCSL003D-400, CCSL003F-400, CCSL003G-400	DOOR SWITCH 2
CSL	003	400	C-CSL003-400SSL	#14	1/C	4	CSL003-400JB	CSL003-400SSL	CCSL003-400, CCSL003A-400, CCSL003B-400	ZERO SPEED
CSL	003	400	C-SOV016-400	#14	1/C	4	CSL003-400JB	SOV016-400	CCSL003-400, CCSL003J-400, CCSL003N-400, CCSL003P-400	SOLENOID 016
CSL	003	400	C-SOV023-400	#14	1/C	4	CSL003-400JB	SOV023-400	CCSL003-400, CCSL003J-400, CCSL003N-400, CCSL003Y-400	SOLENOID 023
CSL	003	400	C-SOV079-400	#14	1/C	4	CSL003-400JB	SOV079-400	CCSL003-400, CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003S-400	SOLENOID 079
CSL	003	400	C-GSD031-400ZSC	#14	1/C	2	CSL003-400JB	GSD031-400ZSC	CCSL003-400, CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003R-400	SLIDE GATE NO 1 CLOSE
CSL	003	400	C-GSD031-400ZSO	#14	1/C	2	CSL003-400JB	GSD031-400ZSO	CCSL003-400, CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003T-400	SLIDE GATE NO 1 OPEN
CSL	003	400	C-SOV080-400	#14	1/C	4	CSL003-400JB	SOV080-400	CCSL003-400, CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003U-400, CCSL003W-400	SOLENOID 080
CSL	003	400	C-GSD032-400ZSC	#14	1/C	2	CSL003-400JB	GSD032-400ZSC	CCSL003-400, CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003U-400, CCSL003V-400	SLIDE GATE NO 2 CLOSE
CSL	003	400	C-GSD032-400ZSO	#14	1/C	2	CSL003-400JB	GSD032-400ZSO	CCSL003-400, CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003U-400, CCSL003X-400	SLIDE GATE NO 2 OPEN
CSL	003	400	C-SOV081-400	#14	1/C	4	CSL003-400JB	SOV081-400	CCSL003-400, CCSL003J-400, CCSL003L-400	SOLENOID 081
CSL	003	400	C-GSD033-400ZSC	#14	1/C	2	CSL003-400JB	GSD033-400ZSC	CCSL003-400, CCSL003J-400, CCSL003K-400	DIVERTER GATE CLOSE
CSL	003	400	C-GSD033-400ZSO	#14	1/C	2	CSL003-400JB	GSD033-400ZSO	CCSL003-400, CCSL003J-400, CCSL003M-400	DIVERTER GATE OPEN
CSL	003	400	P-CSL003-400	#10	4/C	1	HSC003-400CP	CSL003-400	PCSL003A-400, PT-14, PT-16, PT-19, PCSL003-400	SLUDGE SCREW CONVEYOR #2 POWER
CSL	004	400	C-CSL004A-400	#14	25/C	2	HSC004-400CP	CSL004-400JB	CHSC004A-400, CT-3, CT-5, CCSL004-400	

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
CSL	004	400	C-CSL004-400CS2	#14	1/C	4	CSL004-400JBT	CSL004-400CS2	CCSL004-400, CCSL004A-400, CCSL004D-400, CCSL004F-400, CCSL004H-400	E STOP
CSL	004	400	C-CSL004-400CS3	#14	1/C	2	CSL004-400JBT	CSL004-400CS3	CCSL004-400, CCSL004A-400, CCSL004D-400, CCSL004E-400	PULL CORD
CSL	004	400	C-CSL004-400DS	#14	1/C	2	CSL004-400JBT	CSL004-400DS	CCSL004-400, CCSL004A-400, CCSL004C-400	DOOR SWITCH 1
CSL	004	400	C-CSL004-400DS2	#14	1/C	2	CSL004-400JBT	CSL004-400DS2	CCSL004-400, CCSL004A-400, CCSL004D-400, CCSL004F-400, CCSL004G-400	DOOR SWITCH 2
CSL	004	400	C-CSL004-400SSL	#14	1/C	4	CSL004-400JBT	CSL004-400SSL	CCSL004-400, CCSL004A-400, CCSL004B-400	ZERO SPEED
CSL	004	400	C-SOV017-400	#14	1/C	4	CSL004-400JBT	SOV017-400	CCSL004-400, CCSL004J-400, CCSL004N-400, CCSL004P-400	SOLENOID 017
CSL	004	400	C-SOV024-400	#14	1/C	4	CSL004-400JBT	SOV024-400	CCSL004-400, CCSL004J-400, CCSL004N-400, CCSL004Y-400	SOLENOID 024
CSL	004	400	C-SOV082-400	#14	1/C	4	CSL004-400JBT	SOV082-400	CCSL004-400, CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004S-400	SOLENOID 082
CSL	004	400	C-GSD041-400ZSC	#14	1/C	2	CSL004-400JBT	GSD041-400ZSC	CCSL004-400, CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004R-400	SLIDE GATE NO 1 CLOSE
CSL	004	400	C-GSD041-400ZSO	#14	1/C	2	CSL004-400JBT	GSD041-400ZSO	CCSL004-400, CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004T-400	SLIDE GATE NO 1 OPEN
CSL	004	400	C-SOV083-400	#14	1/C	4	CSL004-400JBT	SOV083-400	CCSL004-400, CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004U-400, CCSL004W-400	SOLENOID 083
CSL	004	400	C-GSD042-400ZSC	#14	1/C	2	CSL004-400JBT	GSD042-400ZSC	CCSL004-400, CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004U-400, CCSL004V-400	SLIDE GATE NO 2 CLOSE
CSL	004	400	C-GSD042-400ZSO	#14	1/C	2	CSL004-400JBT	GSD042-400ZSO	CCSL004-400, CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004U-400, CCSL004X-400	SLIDE GATE NO 2 OPEN
CSL	004	400	C-SOV084-400	#14	1/C	4	CSL004-400JBT	SOV084-400	CCSL004-400, CCSL004J-400, CCSL004L-400	SOLENOID 084
CSL	004	400	C-GSD043-400ZSC	#14	1/C	2	CSL004-400JBT	GSD043-400ZSC	CCSL004-400, CCSL004J-400, CCSL004K-400	DIVERTER GATE CLOSE
CSL	004	400	C-GSD043-400ZSO	#14	1/C	2	CSL004-400JBT	GSD043-400ZSO	CCSL004-400, CCSL004J-400, CCSL004M-400	DIVERTER GATE OPEN
CSL	004	400	P-CSL004-400	#10	4/C	1	HSC004-400CP	CSL004-400	PCSL004A-400, PT-14, PT-16, PT-19, PCSL004-400	SLUDGE SCREW CONVEYOR #2 POWER
CSL	005	400	C-CSL005A-400	#14	26/C	2	HSC005-400CP	CSL005-400JBT	CHSC005A-400, CT-3, CT-5, CCSL005-400	
CSL	005	400	C-CSL005-400CS2	#14	1/C	4	CSL005-400JBT	CSL005-400CS2	CCSL005-400, CCSL005A-400, CCSL005D-400, CCSL005F-400, CCSL005H-400	E STOP
CSL	005	400	C-CSL005-400CS3	#14	1/C	2	CSL005-400JBT	CSL005-400CS3	CCSL005-400, CCSL005A-400, CCSL005D-400, CCSL005E-400	PULL CORD
CSL	005	400	C-CSL005-400DS	#14	1/C	2	CSL005-400JBT	CSL005-400DS	CCSL005-400, CCSL005A-400, CCSL005C-400	DOOR SWITCH 1
CSL	005	400	C-CSL005-400DS2	#14	1/C	2	CSL005-400JBT	CSL005-400DS2	CCSL005-400, CCSL005A-400, CCSL005D-400, CCSL005F-400, CCSL005G-400	DOOR SWITCH 2
CSL	005	400	C-CSL005-400SSL	#14	1/C	4	CSL005-400JBT	CSL005-400SSL	CCSL005-400, CCSL005A-400, CCSL005B-400	ZERO SPEED
CSL	005	400	C-SOV018-400	#14	1/C	4	CSL005-400JBT	SOV018-400	CCSL005-400, CCSL005J-400, CCSL005N-400, CCSL005P-400	SOLENOID 018
CSL	005	400	C-SOV025-400	#14	1/C	4	CSL005-400JBT	SOV025-400	CCSL005-400, CCSL005J-400, CCSL005N-400, CCSL005Y-400	SOLENOID 025
CSL	005	400	C-SOV085-400	#14	1/C	4	CSL005-400JBT	SOV085-400	CCSL005-400, CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005S-400	SOLENOID 085
CSL	005	400	C-GSD051-400ZSC	#14	1/C	2	CSL005-400JBT	GSD051-400ZSC	CCSL005-400, CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005R-400	SLIDE GATE NO 1 CLOSE
CSL	005	400	C-GSD051-400ZSO	#14	1/C	2	CSL005-400JBT	GSD051-400ZSO	CCSL005-400, CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005T-400	SLIDE GATE NO 1 OPEN
CSL	005	400	C-SOV086-400	#14	1/C	4	CSL005-400JBT	SOV086-400	CCSL005-400, CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005U-400, CCSL005W-400	SOLENOID 086
CSL	005	400	C-GSD052-400ZSC	#14	1/C	2	CSL005-400JBT	GSD052-400ZSC	CCSL005-400, CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005U-400, CCSL005V-400	SLIDE GATE NO 2 CLOSE
CSL	005	400	C-GSD052-400ZSO	#14	1/C	2	CSL005-400JBT	GSD052-400ZSO	CCSL005-400, CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005U-400, CCSL005X-400	SLIDE GATE NO 2 OPEN
CSL	005	400	C-SOV087-400	#14	1/C	4	CSL005-400JBT	SOV087-400	CCSL005-400, CCSL005J-400, CCSL005L-400	SOLENOID 087
CSL	005	400	C-GSD053-400ZSC	#14	1/C	2	CSL005-400JBT	GSD053-400ZSC	CCSL005-400, CCSL005J-400, CCSL005K-400	DIVERTER GATE CLOSE
CSL	005	400	C-GSD053-400ZSO	#14	1/C	2	CSL005-400JBT	GSD053-400ZSO	CCSL005-400, CCSL005J-400, CCSL005M-400	DIVERTER GATE OPEN
CSL	005	400	P-CSL005-400	#10	4/C	1	HSC005-400CP	CSL005-400	PCSL005A-400, PT-14, PT-16, PT-19, PCSL005-400	SLUDGE SCREW CONVEYOR #2 POWER
CSL	006	400	C-CSL006A-400	#14	26/C	2	HSC006-400CP	CSL006-400JBT	CHSC006A-400, CT-3, CT-5, CCSL006-400	
CSL	006	400	C-CSL006-400CS2	#14	1/C	4	CSL006-400JBT	CSL006-400CS2	CCSL006-400, CCSL006A-400, CCSL006D-400, CCSL006F-400, CCSL006H-400	E STOP
CSL	006	400	C-CSL006-400CS3	#14	1/C	2	CSL006-400JBT	CSL006-400CS3	CCSL006-400, CCSL006A-400, CCSL006D-400, CCSL006E-400	PULL CORD
CSL	006	400	C-CSL006-400DS	#14	1/C	2	CSL006-400JBT	CSL006-400DS	CCSL006-400, CCSL006A-400, CCSL006C-400	DOOR SWITCH 1
CSL	006	400	C-CSL006-400DS2	#14	1/C	2	CSL006-400JBT	CSL006-400DS2	CCSL006-400, CCSL006A-400, CCSL006D-400, CCSL006F-400, CCSL006G-400	DOOR SWITCH 2
CSL	006	400	C-CSL006-400SSL	#14	1/C	4	CSL006-400JBT	CSL006-400SSL	CCSL006-400, CCSL006A-400, CCSL006B-400	ZERO SPEED
CSL	006	400	C-SOV019-400	#14	1/C	4	CSL006-400JBT	SOV019-400	CCSL006-400, CCSL006J-400, CCSL006N-400, CCSL006P-400	SOLENOID 019
CSL	006	400	C-SOV026-400	#14	1/C	4	CSL006-400JBT	SOV026-400	CCSL006-400, CCSL006J-400, CCSL006N-400, CCSL006Y-400	SOLENOID 026
CSL	006	400	C-SOV088-400	#14	1/C	4	CSL006-400JBT	SOV088-400	CCSL006-400, CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006S-400	SOLENOID 088
CSL	006	400	C-GSD061-400ZSC	#14	1/C	2	CSL006-400JBT	GSD061-400ZSC	CCSL006-400, CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006R-400	SLIDE GATE NO 1 CLOSE
CSL	006	400	C-GSD061-400ZSO	#14	1/C	2	CSL006-400JBT	GSD061-400ZSO	CCSL006-400, CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006T-400	SLIDE GATE NO 1 OPEN
CSL	006	400	C-SOV089-400	#14	1/C	4	CSL006-400JBT	SOV089-400	CCSL006-400, CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006U-400, CCSL006W-400	SOLENOID 089
CSL	006	400	C-GSD062-400ZSC	#14	1/C	2	CSL006-400JBT	GSD062-400ZSC	CCSL006-400, CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006U-400, CCSL006V-400	SLIDE GATE NO 2 CLOSE
CSL	006	400	C-GSD062-400ZSO	#14	1/C	2	CSL006-400JBT	GSD062-400ZSO	CCSL006-400, CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006U-400, CCSL006X-400	SLIDE GATE NO 2 OPEN
CSL	006	400	C-SOV090-400	#14	1/C	4	CSL006-400JBT	SOV090-400	CCSL006-400, CCSL006J-400, CCSL006L-400	SOLENOID 090
CSL	006	400	C-GSD063-400ZSC	#14	1/C	2	CSL006-400JBT	GSD063-400ZSC	CCSL006-400, CCSL006J-400, CCSL006K-400	DIVERTER GATE CLOSE
CSL	006	400	C-GSD063-400ZSO	#14	1/C	2	CSL006-400JBT	GSD063-400ZSO	CCSL006-400, CCSL006J-400, CCSL006M-400	DIVERTER GATE OPEN
CSL	006	400	P-CSL006-400	#10	4/C	1	HSC006-400CP	CSL006-400	PCSL006A-400, PT-14, PT-16, PT-19, PCSL006-400	SLUDGE SCREW CONVEYOR #2 POWER
CSL	007	400	C-CSL007A-400	#14	26/C	2	HSC007-400CP	CSL007-400JBT	CHSC007A-400, CT-3, CT-5, CCSL007-400	
CSL	007	400	C-CSL007-400CS2	#14	1/C	4	CSL007-400JBT	CSL007-400CS2	CCSL007-400, CCSL007A-400, CCSL007D-400, CCSL007F-400, CCSL007H-400	E STOP

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
CSL	007	400	C-CSL007-400CS3	#14	1/C	2	CSL007-400JBT	CSL007-400CS3	CCSL007-400, CCSL007A-400, CCSL007D-400, CCSL007E-400	PULL CORD
CSL	007	400	C-CSL007-400DS	#14	1/C	2	CSL007-400JBT	CSL007-400DS	CCSL007-400, CCSL007A-400, CCSL007C-400	DOOR SWITCH 1
CSL	007	400	C-CSL007-400DS2	#14	1/C	2	CSL007-400JBT	CSL007-400DS2	CCSL007-400, CCSL007A-400, CCSL007D-400, CCSL007F-400, CCSL007G-400	DOOR SWITCH 2
CSL	007	400	C-CSL007-400SSL	#14	1/C	4	CSL007-400JBT	CSL007-400SSL	CCSL007-400, CCSL007A-400, CCSL007B-400	ZERO SPEED
CSL	007	400	C-SOV020-400	#14	1/C	4	CSL007-400JBT	SOV020-400	CCSL007-400, CCSL007J-400, CCSL007N-400, CCSL007P-400	SOLENOID 020
CSL	007	400	C-SOV027-400	#14	1/C	4	CSL007-400JBT	SOV027-400	CCSL007-400, CCSL007J-400, CCSL007N-400, CCSL007Y-400	SOLENOID 027
CSL	007	400	C-SOV091-400	#14	1/C	4	CSL007-400JBT	SOV091-400	CCSL007-400, CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007S-400	SOLENOID 091
CSL	007	400	C-GSD071-400ZSC	#14	1/C	2	CSL007-400JBT	GSD071-400ZSC	CCSL007-400, CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007R-400	SLIDE GATE NO 1 CLOSE
CSL	007	400	C-GSD071-400ZSO	#14	1/C	2	CSL007-400JBT	GSD071-400ZSO	CCSL007-400, CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007T-400	SLIDE GATE NO 1 OPEN
CSL	007	400	C-SOV092-400	#14	1/C	4	CSL007-400JBT	SOV092-400	CCSL007-400, CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007U-400, CCSL007W-400	SOLENOID 092
CSL	007	400	C-GSD072-400ZSC	#14	1/C	2	CSL007-400JBT	GSD072-400ZSC	CCSL007-400, CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007U-400, CCSL007V-400	SLIDE GATE NO 2 CLOSE
CSL	007	400	C-GSD072-400ZSO	#14	1/C	2	CSL007-400JBT	GSD072-400ZSO	CCSL007-400, CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007U-400, CCSL007X-400	SLIDE GATE NO 2 OPEN
CSL	007	400	C-SOV093-400	#14	1/C	4	CSL007-400JBT	SOV093-400	CCSL007-400, CCSL007J-400, CCSL007L-400	SOLENOID 093
CSL	007	400	C-GSD073-400ZSC	#14	1/C	2	CSL007-400JBT	GSD073-400ZSC	CCSL007-400, CCSL007J-400, CCSL007K-400	DIVERTER GATE CLOSE
CSL	007	400	C-GSD073-400ZSO	#14	1/C	2	CSL007-400JBT	GSD073-400ZSO	CCSL007-400, CCSL007J-400, CCSL007M-400	DIVERTER GATE OPEN
CSL	007	400	P-CSL007-400	#10	4/C	1	HSC007-400CP	CSL007-400	PCSL007A-400, PT-14, PT-16, PT-19, PCSL007-400	SLUDGE SCREW CONVEYOR #2 POWER
DFP	001	400	P-DFP001-400AF	#4	4/C	1	MCC045-400A	DFP001-400AF	PDFP001B-400AF, PT-5, PT-6, PDFP001A-400AF	
DFP	001	400	P-DFP001-400	#4	1/C	4	DFP001-400AF	DFP001-400MO	PDFP001-400, PDFP001A-400	VFD SHIELDED CABLE
DFP	001	400	C-DFP001-400CS2	#14	1/C	4	DFP001-400AF	DFP001-400CS2	CDFP001-400, CDFP001B-400, CDFP001D-400, CDFP001E-40C	
DFP	001	400	C-DFP001-400HTR	#14	1/C	2	DFP001-400AF	DFP001-400HTR	CDFP001-400, CDFP001A-400, PDFP001A-40C	
DFP	001	400	C-DFP001-400PSH	#14	1/C	4	DFP001-400AF	DFP001-400PSH	CDFP001-400, CDFP001B-400, CDFP001C-40C	
DFP	001	400	C-DFP001-400PSL	#14	1/C	4	DFP001-400AF	DFP001-400PSL	CDFP001-400, CDFP001B-400, CDFP001D-400, CDFP001F-40C	
DFP	001	400	C-DFP001-400TS	#14	1/C	2	DFP001-400AF	DFP001-400TS	CDFP001-400, CDFP001A-400, PDFP001A-40C	
DFP	001	400	I-DFP001-400AF	#16	2/C - T.S.	2	DPU-P1AD	DFP001-400AF	I4070-400, I4078-400, I4079-400, I4080-400, I4081-400, I4082-400, I4083-400, I4084-400, IP1AD-40I	
DFP	001	400	C-DFP001B-400AF	#14	19/C	1	DPU-P2AD	DFP001-400AF	CP2AD-400, CT-9, CDFP001-400AF	
DFP	002	400	P-DFP002-400AF	#4	4/C	1	MCC045-400A	DFP002-400AF	PDFP002B-400AF, PT-5, PT-6, PDFP002A-400AF	
DFP	002	400	P-DFP002-400	#4	1/C	4	DFP002-400AF	DFP002-400MO	PDFP002-400	VFD SHIELDED CABLE
DFP	002	400	C-DFP002-400CS2	#14	1/C	4	DFP002-400AF	DFP002-400CS2	CDFP002-400, CDFP002B-400, CDFP002D-400, CDFP002E-40C	
DFP	002	400	C-DFP002-400HTR	#14	1/C	2	DFP002-400AF	DFP002-400HTR	CDFP002-400, CDFP002A-400, PDFP002A-40C	
DFP	002	400	C-DFP002-400PSH	#14	1/C	4	DFP002-400AF	DFP002-400PSH	CDFP002-400, CDFP002B-400, CDFP002C-40C	
DFP	002	400	C-DFP002-400PSL	#14	1/C	4	DFP002-400AF	DFP002-400PSL	CDFP002-400, CDFP002B-400, CDFP002D-400, CDFP002F-40C	
DFP	002	400	C-DFP002-400TS	#14	1/C	2	DFP002-400AF	DFP002-400TS	CDFP002-400, CDFP002A-400, PDFP002A-40C	
DFP	002	400	I-DFP002-400AF	#16	2/C - T.S.	2	DPU-P1AD	DFP002-400AF	I4071-400, I4078-400, I4079-400, I4080-400, I4081-400, I4082-400, I4083-400, I4084-400, IP1AD-40I	
DFP	002	400	C-DFP002B-400AF	#14	19/C	1	DPU-P2EH	DFP002-400AF	CP2EH-400, CT-9, CDFP002-400AF	
DFP	003	400	P-DFP003-400AF	#4	4/C	1	MCC045-400A	DFP003-400AF	PDFP003B-400AF, PT-5, PT-6, PDFP003A-400AF	
DFP	003	400	P-DFP003-400	#4	1/C	4	DFP003-400AF	DFP003-400MO	PDFP003-400	VFD SHIELDED CABLE
DFP	003	400	C-DFP003-400CS2	#14	1/C	4	DFP003-400AF	DFP003-400CS2	CDFP003-400, CDFP003B-400, CDFP003D-400, CDFP003E-40C	
DFP	003	400	C-DFP003-400HTR	#14	1/C	2	DFP003-400AF	DFP003-400HTR	CDFP003-400, CDFP003A-400, PDFP003A-40C	
DFP	003	400	C-DFP003-400PSH	#14	1/C	4	DFP003-400AF	DFP003-400PSH	CDFP003-400, CDFP003B-400, CDFP003C-40C	
DFP	003	400	C-DFP003-400PSL	#14	1/C	4	DFP003-400AF	DFP003-400PSL	CDFP003-400, CDFP003B-400, CDFP003D-400, CDFP003F-40C	
DFP	003	400	C-DFP003-400TS	#14	1/C	2	DFP003-400AF	DFP003-400TS	CDFP003-400, CDFP003A-400, PDFP003A-40C	
DFP	003	400	I-DFP003-400AF	#16	2/C - T.S.	2	DPU-P1AD	DFP003-400AF	I4072-400, I4079-400, I4080-400, I4081-400, I4082-400, I4083-400, I4084-400, IP1AD-40I	
DFP	003	400	C-DFP003B-400AF	#14	19/C	1	DPU-P2AD	DFP003-400AF	CP2AD-400, CT-9, CDFP003-400AF	
DFP	004	400	P-DFP004-400AF	#4	4/C	1	MCC045-400A	DFP004-400AF	PDFP004B-400AF, PT-5, PT-6, PDFP004A-400AF	
DFP	004	400	P-DFP004-400	#4	1/C	4	DFP004-400AF	DFP004-400MO	PDFP004-400	VFD SHIELDED CABLE
DFP	004	400	C-DFP004-400CS2	#14	1/C	4	DFP004-400AF	DFP004-400CS2	CDFP004-400, CDFP004B-400, CDFP004D-400, CDFP004E-40C	
DFP	004	400	C-DFP004-400HTR	#14	1/C	2	DFP004-400AF	DFP004-400HTR	CDFP004-400, CDFP004A-400, PDFP004A-40C	
DFP	004	400	C-DFP004-400PSH	#14	1/C	4	DFP004-400AF	DFP004-400PSH	CDFP004-400, CDFP004B-400, CDFP004C-40C	
DFP	004	400	C-DFP004-400PSL	#14	1/C	4	DFP004-400AF	DFP004-400PSL	CDFP004-400, CDFP004B-400, CDFP004D-400, CDFP004F-40C	
DFP	004	400	C-DFP004-400TS	#14	1/C	2	DFP004-400AF	DFP004-400TS	CDFP004-400, CDFP004A-400, PDFP004A-40C	
DFP	004	400	I-DFP004-400AF	#16	2/C - T.S.	2	DPU-P1AD	DFP004-400AF	I4073-400, I4080-400, I4081-400, I4082-400, I4083-400, I4084-400, IP1AD-40I	
DFP	004	400	C-DFP004B-400AF	#14	19/C	1	DPU-P2EH	DFP004-400AF	CP2EH-400, CT-9, CDFP004-400AF	
DFP	005	400	P-DFP005-400AF	#4	4/C	1	MCC045-400A	DFP005-400AF	PDFP005B-400AF, PT-5, PT-6, PDFP005A-400AF	
DFP	005	400	P-DFP005-400	#4	1/C	4	DFP005-400AF	DFP005-400MO	PDFP005-400	VFD SHIELDED CABLE
DFP	005	400	C-DFP005-400CS2	#14	1/C	4	DFP005-400AF	DFP005-400CS2	CDFP005-400, CDFP005B-400, CDFP005D-400, CDFP005E-40C	

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
DFP	005	400	C-DFP005-400HTR	#14	1/C	2	DFP005-400AF	DFP005-400HTR	CDFP005-400, CDFP005A-400, PDFP005A-400	
DFP	005	400	C-DFP005-400PSH	#14	1/C	4	DFP005-400AF	DFP005-400PSH	CDFP005-400, CDFP005B-400, CDFP005C-400	
DFP	005	400	C-DFP005-400PSL	#14	1/C	4	DFP005-400AF	DFP005-400PSL	CDFP005-400, CDFP005B-400, CDFP005D-400, CDFP005F-400	
DFP	005	400	C-DFP005-400TS	#14	1/C	2	DFP005-400AF	DFP005-400TS	CDFP005-400, CDFP005A-400, PDFP005A-400	
DFP	005	400	I-DFP005-400AF	#16	2/C - T.S.	2	DPU-P1AD	DFP005-400AF	I4074-400, I4081-400, I4082-400, I4083-400, I4084-400, IP1AD-400	
DFP	005	400	C-DFP005B-400AF	#14	19/C	1	DPU-P2AD	DFP005-400AF	CP2AD-400, CT-9, CDFP005-400AF	
DFP	006	400	P-DFP006-400AF	#4	4/C	1	MCC045-400A	DFP006-400AF	PDFP006B-400AF, PT-5, PT-6, PDFP006A-400AF	
DFP	006	400	P-DFP006-400	#4	1/C	4	DFP006-400AF	DFP006-400MO	PDFP006-400	VFD SHIELDED CABLE
DFP	006	400	C-DFP006-400CS2	#14	1/C	4	DFP006-400AF	DFP006-400CS2	CDFP006-400, CDFP006B-400, CDFP006D-400, CDFP006E-400	
DFP	006	400	C-DFP006-400HTR	#14	1/C	2	DFP006-400AF	DFP006-400HTR	CDFP006-400, CDFP006A-400, PDFP006A-400	
DFP	006	400	C-DFP006-400PSH	#14	1/C	4	DFP006-400AF	DFP006-400PSH	CDFP006-400, CDFP006B-400, CDFP006C-400	
DFP	006	400	C-DFP006-400PSL	#14	1/C	4	DFP006-400AF	DFP006-400PSL	CDFP006-400, CDFP006B-400, CDFP006D-400, CDFP006F-400	
DFP	006	400	C-DFP006-400TS	#14	1/C	2	DFP006-400AF	DFP006-400TS	CDFP006-400, CDFP006A-400, PDFP006A-400	
DFP	006	400	I-DFP006-400AF	#16	2/C - T.S.	2	DPU-P1AD	DFP006-400AF	I4075-400, I4082-400, I4083-400, I4084-400, IP1AD-400	
DFP	006	400	C-DFP006B-400AF	#14	19/C	1	DPU-P2EH	DFP006-400AF	CP2EH-400, CT-9, CDFP006-400AF	
DFP	007	400	P-DFP007-400AF	#4	4/C	1	MCC045-400A	DFP007-400AF	PDFP007B-400AF, PT-5, PT-6, PDFP007A-400AF	
DFP	007	400	P-DFP007-400	#4	1/C	4	DFP007-400AF	DFP007-400MO	PDFP007-400	VFD SHIELDED CABLE
DFP	007	400	C-DFP007-400CS2	#14	1/C	4	DFP007-400AF	DFP007-400CS2	CDFP007-400, CDFP007B-400, CDFP007D-400, CDFP007E-400	
DFP	007	400	C-DFP007-400HTR	#14	1/C	2	DFP007-400AF	DFP007-400HTR	CDFP007-400, CDFP007A-400, PDFP007A-400	
DFP	007	400	C-DFP007-400PSH	#14	1/C	4	DFP007-400AF	DFP007-400PSH	CDFP007-400, CDFP007B-400, CDFP007C-400	
DFP	007	400	C-DFP007-400PSL	#14	1/C	4	DFP007-400AF	DFP007-400PSL	CDFP007-400, CDFP007B-400, CDFP007D-400, CDFP007F-400	
DFP	007	400	C-DFP007-400TS	#14	1/C	2	DFP007-400AF	DFP007-400TS	CDFP007-400, CDFP007A-400, PDFP007A-400	
DFP	007	400	I-DFP007-400AF	#16	2/C - T.S.	2	DPU-P1AD	DFP007-400AF	I4076-400, I4083-400, I4084-400, IP1AD-400	
DFP	007	400	C-DFP007B-400AF	#14	19/C	1	DPU-P2AD	DFP007-400AF	CP2AD-400, CT-9, CDFP007-400AF	
DFP	008	400	P-DFP008-400AF	#4	4/C	1	MCC045-400A	DFP008-400AF	PDFP001B-400AF, PT-5, PT-6, PDFP008A-400AF	
DFP	008	400	P-DFP008-400	#4	1/C	4	DFP008-400AF	DFP008-400MO	PDFP008-400	VFD SHIELDED CABLE
DFP	008	400	C-DFP008-400CS2	#14	1/C	4	DFP008-400AF	DFP008-400CS2	CDFP008-400, CDFP008B-400, CDFP008D-400, CDFP008E-400	
DFP	008	400	C-DFP008-400HTR	#14	1/C	2	DFP008-400AF	DFP008-400HTR	CDFP008-400, CDFP008A-400, PDFP008A-400	
DFP	008	400	C-DFP008-400PSH	#14	1/C	4	DFP008-400AF	DFP008-400PSH	CDFP008-400, CDFP008B-400, CDFP008C-400	
DFP	008	400	C-DFP008-400PSL	#14	1/C	4	DFP008-400AF	DFP008-400PSL	CDFP008-400, CDFP008B-400, CDFP008D-400, CDFP008F-400	
DFP	008	400	C-DFP008-400TS	#14	1/C	2	DFP008-400AF	DFP008-400TS	CDFP008-400, CDFP008A-400, PDFP008A-400	
DFP	008	400	I-DFP008-400AF	#16	2/C - T.S.	2	DPU-P1EH	DFP008-400AF	I4077-400, I4084-400, IP1EH-400	
DFP	008	400	I-DFP008-400AF	#16	2/C - T.S.	2	DPU-P1AD	DFP008-400AF	I4077-400, I4084-400, IP1AD-400	
DFP	008	400	C-DFP008B-400AF	#14	19/C	1	DPU-P2EH	DFP008-400AF	CP2EH-400, CT-9, CDFP008-400AF	
DLP	001	400	P-SOV067-400	#12	1/C	3	SOV067-400CP	SOV067-400	P010A-400	
DLP	001	400	P-SOV067-400CP	#12	1/C	3	SOV067-400CP	SOV068-400CP	P010-400, P011-400	
DLP	001	400	C-SOV067-400CP	#14	1/C	3	SOV067-400CP	DPU-P2AD	C049A-400, C049-400, C073-400, C072-400, C071-400, C070-400, C069-400, CP2AD-400	
DLP	001	400	I-F400TGB001BFIT	#16	2/C T.S.	1	F400TGB001BFIT	DPU-P1AD	I023-400, I047-400, I046-400, I045-400, I044-400, I043-400, IP1AD-400	
DLP	001	400	P-F400TGB001BFIT	#12	3/C	1	F400TGB001BFIT	F400TGB002BFIT	P527-400, P528-400	
DLP	001	400	C-V400TGB001BFS	#14	1/C	3	V400TGB001BFS	DPU-P1EH	C049B-400, C049-400, C073-400, C072-400, C071-400, C070-400, C069-400, CP1EH-400	
DLP	002	400	P-SOV068-400	#12	1/C	3	SOV068-400CP	SOV068-400	P011A-400	
DLP	002	400	P-SOV068-400CP	#12	1/C	3	SOV068-400CP	SOV069-400CP	P011-400, P034-400, P012-400	
DLP	002	400	C-SOV068-400CP	#14	1/C	3	SOV068-400CP	DPU-P2AD	C050A-400, C050-400, C073-400, C072-400, C071-400, C070-400, C069-400, CP2AD-400	
DLP	002	400	I-F400TGB002BFIT	#16	2/C T.S.	1	F400TGB002BFIT	DPU-P1AD	I024-400, I047-400, I046-400, I045-400, I044-400, I043-400, IP1AD-400	
DLP	002	400	P-F400TGB002BFIT	#12	1/C	3	F400TGB002BFIT	F400TGB003BFIT	P528-400, P551-400, P529-400	
DLP	002	400	C-V400TGB002BFS	#14	1/C	3	V400TGB002BFS	DPU-P1EH	C050B-400, C050-400, C073-400, C072-400, C071-400, C070-400, C069-400, CP1EH-400	
DLP	003	400	P-SOV069-400	#12	1/C	3	SOV069-400CP	SOV069-400	P012A-400	
DLP	003	400	P-SOV069-400CP	#12	1/C	3	SOV069-400CP	SOV070-400CP	P012-400, P033-400, P013-400	
DLP	003	400	C-SOV069-400CP	#14	1/C	3	SOV069-400CP	DPU-P2EH	C051A-400, C051-400, C072-400, C071-400, C070-400, C069-401, CP2EH-400	
DLP	003	400	I-F400TGB003BFIT	#16	2/C T.S.	1	F400TGB003BFIT	DPU-P1EH	I025-400, I046-400, I045-400, I044-400, I043-400, IP1EH-400	
DLP	003	400	P-F400TGB003BFIT	#12	1/C	3	F400TGB003BFIT	F400TGB004BFIT	P529-400, P550-400, P530-400	
DLP	003	400	C-V400TGB003BFS	#14	1/C	3	V400TGB003BFS	DPU-P1EH	C051B-400, C051-400, C072-400, C071-400, C070-400, C069-400, CP1EH-400	
DLP	004	400	P-SOV070-400	#12	1/C	3	SOV070-400CP	SOV070-400	P013A-400	
DLP	004	400	P-SOV070-400CP	#12	1/C	3	SOV070-400CP	SOV071-400CP	P013-400, P032-400, P014-400	
DLP	004	400	C-SOV070-400CP	#14	1/C	3	SOV070-400CP	DPU-P2EH	C052A-400, C052-400, C071-400, C070-400, C069-400, CP2EH-400	

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
DLP	004	400	I-F400TGB004BFIT	#16	2/C T.S.	1	F400TGB004BFIT	DPU-P1EH	I026-400, I045-400, I044-400, I043-403, IP1EH-40C	
DLP	004	400	P-F400TGB004BFIT	#12	1/C	3	F400TGB004BFIT	F400TGB005BFIT	P530-400, P549-400, P531-400	
DLP	004	400	C-V400TGB004BFS	#14	1/C	3	V400TGB004BFS	DPU-P2AD	C052B-400, C052-400, C071-400, C070-400, C069-400, CP2AD-40C	
DLP	005	400	P-SOV071-400	#12	1/C	3	SOV071-400CP	SOV071-400	P014A-400	
DLP	005	400	P-SOV071-400CP	#12	1/C	3	SOV071-400CP	SOV072-400CP	P014-400, P031-400, P015-400	
DLP	005	400	C-SOV071-400CP	#14	1/C	3	SOV071-400CP	DPU-P2EH	C053A-400, C053-400, C070-400, C069-400, CP2EH-40C	
DLP	005	400	I-F400TGB005BFIT	#16	2/C T.S.	1	F400TGB005BFIT	DPU-P1EH	I027-400, I044-400, I043-404, IP1EH-40C	
DLP	005	400	P-F400TGB005BFIT	#12	1/C	3	F400TGB005BFIT	F400TGB006BFIT	P531-400, P548-400, P532-400	
DLP	005	400	C-V400TGB005BFS	#14	1/C	3	V400TGB005BFS	DPU-P2EH	C053B-400, C053-400, C070-400, C069-400, CP2EH-40C	
DLP	006	400	P-SOV072-400	#12	1/C	3	SOV072-400CP	SOV072-400	P015A-400	
DLP	006	400	P-SOV072-400CP	#12	1/C	3	SOV072-400CP	BCP001-400	P015-400, P030-400	
DLP	006	400	C-SOV072-400CP	#14	1/C	3	SOV072-400CP	DPU-P2AD	C054A-400, C054-400, C069-404, CP2AD-40C	
DLP	006	400	I-F400TGB006BFIT	#16	2/C T.S.	1	F400TGB006BFIT	DPU-P1EH	I028-400, I043-400, IP1EH-400	
DLP	006	400	P-F400TGB006BFIT	#12	1/C	3	F400TGB006BFIT	IPP001-400	P532-400, P547-400	
DLP	006	400	C-V400TGB006BFS	#14	1/C	3	V400TGB006BFS	DPU-P2EH	C054B-400, C054-400, C069-404, CP2EH-40C	
GDF	001	400	P-GDF001-400CP	#12	1/C	4	MCC045-400A	GDF001-400CP	PGDF001-400	
GDF	001	400	P-GDF001-400	#12	1/C	4	GDF001-400CP	GDF001-400MO	PGDF001A-400	
GDF	001	400	C-GDF001-400	#14	1/C	4	CGDF001-400CP	CGDF001-400CS2	CGDF001-400	
GDF	001	400	C-GDF001-400CPJB	#14	1/C	12	DPU-P2AD	CGDF001-400CPJB	CP2ADA-400, C011-400, C001-400	
GDF	002	400	P-GDF002-400CP	#12	1/C	4	MCC045-400B	GDF002-400CP	PGDF002-400	
GDF	002	400	P-GDF002-400	#12	1/C	4	GDF002-400CP	GDF002-400MO	PGDF002A-400	
GDF	002	400	C-GDF002-400	#14	1/C	4	CGDF002-400CP	CGDF002-400CS2	CGDF002-400	
GDF	002	400	C-GDF002-400CP	#14	1/C	12	DPU-P2EH	CGDF002-400CP	CP2ADA-400, C011-400, C010-400, C002-40C	
GDF	003	400	P-GDF003-400CP	#12	1/C	4	MCC045-400A	GDF003-400CP	PGDF003-400	
GDF	003	400	P-GDF003-400	#12	1/C	4	GDF003-400CP	GDF003-400MO	PGDF003A-400	
GDF	003	400	C-GDF003-400	#14	1/C	4	CGDF003-400CP	CGDF003-400CS2	CGDF003-400	
GDF	003	400	C-GDF003-400CP	#14	1/C	12	DPU-P2AD	CGDF003-400CP	CP2ADA, C011-400, C010-400, C009-400, C003-40C	
GDF	004	400	P-GDF004-400CP	#12	1/C	4	MCC045-400B	GDF004-400CP	PGDF004-400	
GDF	004	400	P-GDF004-400	#12	1/C	4	GDF004-400CP	GDF004-400MO	PGDF004A-400	
GDF	004	400	C-GDF004-400	#14	1/C	4	CGDF004-400CP	CGDF004-400CS2	CGDF004-400	
GDF	004	400	C-GDF004-400CP	#14	1/C	12	DPU-P2EH	CGDF004-400CP	CP2ADA, C011-400, C010-400, C009-400, C004-40C	
GDF	005	400	P-GDF005-400CP	#12	1/C	4	MCC046-400A	GDF005-400CP	PGDF005-400	
GDF	005	400	P-GDF005-400	#12	1/C	4	GDF005-400CP	GDF005-400MO	PGDF005A-400	
GDF	005	400	C-GDF005-400	#14	1/C	4	CGDF005-400CP	CGDF005-400CS2	CGDF005-400	
GDF	005	400	C-GDF005-400CP	#14	1/C	12	DPU-P2AD	CGDF005-400CP	CP2ADA, C014-400, C005-400	
GDF	006	400	P-GDF006-400CP	#12	1/C	4	MCC045-400B	GDF006-400CP	PGDF006-400	
GDF	006	400	P-GDF006-400	#12	1/C	4	GDF006-400CP	GDF006-400MO	PGDF006A-400	
GDF	006	400	C-GDF006-400	#14	1/C	4	CGDF006-400CP	CGDF006-400CS2	CGDF006-400	
GDF	006	400	C-GDF006-400CP	#14	1/C	12	DPU-P2EH	CGDF006-400CP	CP2ADA, C014-400, C013-400, C006-400	
GDF	007	400	P-GDF007-400CP	#12	1/C	4	MCC045-400A	GDF007-400CP	PGDF007-400	
GDF	007	400	P-GDF007-400	#12	1/C	4	GDF007-400CP	GDF007-400MO	PGDF007A-400	
GDF	007	400	C-GDF007-400	#14	1/C	4	CGDF007-400CP	CGDF007-400CS2	CGDF007-400	
GDF	007	400	C-GDF007-400CP	#14	1/C	12	DPU-P2AD	CGDF007-400CP	CP2ADA, C014-400, C013-400, C012-400, C007-40C	
GDF	008	400	P-GDF008-400CP	#12	1/C	4	MCC046-400B	GDF008-400CP	PGDF008-400	
GDF	008	400	P-GDF008-400	#12	1/C	4	GDF008-400CP	GDF008-400MO	PGDF008A-400	
GDF	008	400	C-GDF008-400	#14	1/C	4	CGDF008-400CP	CGDF008-400CS2	CGDF008-400	
GDF	008		C-GDF008-400CP	#14	1/C	12	DPU-P2EH	CGDF008-400CP	CP2ADA, C014-400, C013-400, C012-400, C008-40C	
GPS	001	400	P-GPS001-400	#12	3/C & 1G	1	MCC045-400A	GPS001-400CP	PGPS001C-400, PT-14, PGPS001-400	Primary Sludge Grinder No 1
GPS	001	400	C-GPS001-400BCP	#14	12/C	1	GPS001-400CP	DPU-P2AD	CP2AD-400, CT-1A, CGPS001-400	
GPS	001	400	C-GPS001-400CS2	#14	1/C	4	GPS001-400CP	GPS001-400CS2	CGPS001A-400, CGPS001C-400	
GPS	001	400	C-GPS001-400	#14	1/C	2	GPS001-400CP	GPS001-400MO	CGPS001A-400, CGPS001B-400, PGPS001B-40C	
GPS	001	400	C-SOV050-400MO	#14	1/C	2	JBGPS2-400	SOV050-400	CSOV050A-400, CSOV050B-400	SOV050 POWER
GPS	001	400	C-SOV050-400ZSO	#14	1/C	2	JBGPS2-400	SOV050-400	CSOV050A-400, CSOV050C-400, CSOV050E-400	SOV050 OPEN LIMIT SWITCH
GPS	001	400	C-SOV050-400ZSC	#14	1/C	2	JBGPS2-400	SOV050-400	CSOV050A-400, CSOV050C-400, CSOV050D-400	SOV050 CLOSE LIMIT SWITCH
GPS	001	400	C-SOV056-400MO	#14	1/C	2	JBGPS2-400	SOV056-400	CSOV056A-400, CSOV056B-400	SOV056 POWER

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
GPS	001	400	C-SOV056-400ZSO	#14	1/C	2	JBGPS2-400	SOV056-400	CSOV056A-400, CSOV056C-400, CSOV056E-400	SOV056 OPEN LIMIT SWITCH
GPS	001	400	C-SOV056-400ZSC	#14	1/C	2	JBGPS2-400	SOV056-400	CSOV056A-400, CSOV056C-400, CSOV056D-400	SOV056 CLOSE LIMIT SWITCH
GPS	001	400	C-SOV057-400MO	#14	1/C	2	JBGPS2-400	SOV057-400	CSOV057A-400, CSOV057B-400	SOV057 POWER
GPS	001	400	C-SOV057-400ZSO	#14	1/C	2	JBGPS2-400	SOV057-400	CSOV057A-400, CSOV057C-400, CSOV057E-400	SOV057 OPEN LIMIT SWITCH
GPS	001	400	C-SOV057-400ZSC	#14	1/C	2	JBGPS2-400	SOV057-400	CSOV057A-400, CSOV057C-400, CSOV057D-400	SOV057 CLOSE LIMIT SWITCH
GPS	001	400	C-SOV058-400MO	#14	1/C	2	JBGPS2-400	SOV058-400	CSOV058A-400, CSOV058B-400	SOV058 POWER
GPS	001	400	C-SOV058-400ZSO	#14	1/C	2	JBGPS2-400	SOV058-400	CSOV058A-400, CSOV058C-400, CSOV058E-400	SOV058 OPEN LIMIT SWITCH
GPS	001	400	C-SOV058-400ZSC	#14	1/C	2	JBGPS2-400	SOV058-400	CSOV058A-400, CSOV058C-400, CSOV058D-400	SOV058 CLOSE LIMIT SWITCH
GPS	001	400	C-SOV059-400MO	#14	1/C	2	JBGPS2-400	SOV059-400	CSOV059A-400, CSOV059B-400	SOV059 POWER
GPS	001	400	C-SOV059-400ZSO	#14	1/C	2	JBGPS2-400	SOV059-400	CSOV059A-400, CSOV059C-400, CSOV059E-400	SOV059 OPEN LIMIT SWITCH
GPS	001	400	C-SOV059-400ZSC	#14	1/C	2	JBGPS2-400	SOV059-400	CSOV059A-400, CSOV059C-400, CSOV059D-400	SOV059 CLOSE LIMIT SWITCH
GPS	001	400	C-SOV051-400MO	#14	1/C	2	JBGPS1-400	SOV051-400	CSOV051A-400, CSOV051B-400	SOV051 POWER
GPS	001	400	C-SOV051-400ZSO	#14	1/C	2	JBGPS1-400	SOV051-400	CSOV051A-400, CSOV051C-400, CSOV051E-400	SOV051 OPEN LIMIT SWITCH
GPS	001	400	C-SOV051-400ZSC	#14	1/C	2	JBGPS1-400	SOV051-400	CSOV051A-400, CSOV051C-400, CSOV051D-400	SOV051 CLOSE LIMIT SWITCH
GPS	001	400	C-SOV052-400MO	#14	1/C	2	JBGPS1-400	SOV052-400	CSOV052A-400, CSOV052B-400	SOV052 POWER
GPS	001	400	C-SOV052-400ZSO	#14	1/C	2	JBGPS1-400	SOV052-400	CSOV052A-400, CSOV052C-400, CSOV052E-400	SOV052 OPEN LIMIT SWITCH
GPS	001	400	C-SOV052-400ZSC	#14	1/C	2	JBGPS1-400	SOV052-400	CSOV052A-400, CSOV052C-400, CSOV052D-400	SOV052 CLOSE LIMIT SWITCH
GPS	001	400	C-SOV053-400MO	#14	1/C	2	JBGPS1-400	SOV053-400	CSOV053A-400, CSOV053B-400	SOV053 POWER
GPS	001	400	C-SOV053-400ZSO	#14	1/C	2	JBGPS1-400	SOV053-400	CSOV053A-400, CSOV053C-400, CSOV053E-400	SOV053 OPEN LIMIT SWITCH
GPS	001	400	C-SOV053-400ZSC	#14	1/C	2	JBGPS1-400	SOV053-400	CSOV053A-400, CSOV053C-400, CSOV053D-400	SOV053 CLOSE LIMIT SWITCH
GPS	001	400	C-SOV054-400MO	#14	1/C	2	JBGPS1-400	SOV054-400	CSOV054A-400, CSOV054B-400	SOV054 POWER
GPS	001	400	C-SOV054-400ZSO	#14	1/C	2	JBGPS1-400	SOV054-400	CSOV054A-400, CSOV054C-400, CSOV054E-400	SOV054 OPEN LIMIT SWITCH
GPS	001	400	C-SOV054-400ZSC	#14	1/C	2	JBGPS1-400	SOV054-400	CSOV054A-400, CSOV054C-400, CSOV054D-400	SOV054 CLOSE LIMIT SWITCH
GPS	001	400	C-SOV055-400MO	#14	1/C	2	JBGPS1-400	SOV055-400	CSOV055A-400, CSOV055B-400	SOV055 POWER
GPS	001	400	C-SOV055-400ZSO	#14	1/C	2	JBGPS1-400	SOV055-400	CSOV055A-400, CSOV055C-400, CSOV055E-400	SOV055 OPEN LIMIT SWITCH
GPS	001	400	C-SOV055-400ZSC	#14	1/C	2	JBGPS1-400	SOV055-400	CSOV055A-400, CSOV055C-400, CSOV055D-400	SOV055 CLOSE LIMIT SWITCH
GPS	001	400	C-JBGPS1-400	#14	1/C	30	GPSVCP-400	JBGPS1-400	CJBGPS1-400	DIGITAL TO JB FROM VCP
GPS	001	400	C-JBGPS1-400	#14	1/C	30	GPSVCP-400	JBGPS2-400	CJBGPS2-400	DIGITAL TO JB FROM VCP
GPS	001	400	P-GPSVCP-400	#12	1/C	3	GPSVCP-400	BCP002-400	PGPSVCP-400	VALVE CP 120V POWER
GPS	001	400	C-GPSVCPA-400	#14	25/C	4	GPSVCP-400	DPU-P1EH	CGPSVCP-400, DPU-P1EH	VALVE CP TO DPU
GPS	001	400	C-GPSVCPB-400	#14	25/C	1	GPSVCP-400	DPU-P2AD	CGPSVCP-400, DPU-P2AD	VALVE CP TO DPU
GPS	002	400	P-GPS002-400	#12	3/C & 1G	1	MCC046-400B	GPS002-400CP	PGPS002C-400, PT-14, PGPS002-400	Primary Sludge Grinder No 2
GPS	002	400	C-GPS002-400BCP	#14	12/C	1	GPS002-400CP	DPU-P2AD	CP2AD-400, CT-1A, CGPS002-400	
GPS	002	400	C-GPS002-400CS2	#14	1/C	4	GPS002-400CP	GPS002-400CS2	CGPS002A-400, CGPS002C-400	
GPS	002	400	C-GPS002-400	#14	1/C	2	GPS002-400CP	GPS002-400MO	CGPS002A-400, CGPS002B-400, PGPS002B-400	
GPS	004	400	P-GPS004-400	#12	3/C & 1G	1	MCC045-400A	GPS004-400CP	PGPS004C-400, PT-14, PGPS004-400	Primary Sludge Grinder No 3
GPS	004	400	C-GPS004-400ACP	#14	12/C	1	GPS004-400CP	DPU-P1EH	CP1EH-400, CT-1A, CGPS004-400	
GPS	004	400	C-GPS004-400CCP	#14	5/C	1	GPS004-400CP	DPU-P2EH	CP2EH-400, CT-1A, CGPS004-400	
GPS	004	400	C-GPS004-400CS2	#14	1/C	4	GPS004-400CP	GPS004-400CS2	CGPS004A-400, CGPS004C-400	
GPS	004	400	C-GPS004-400	#14	1/C	2	GPS004-400CP	GPS004-400MO	CGPS004A-400, CGPS004B-400, PGPS004B-400	
GWS	001	400	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)
GWS	001	400	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)
GWS	001	400	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)
GWS	001	400	C-GWS001A-400CP	#14	19/C	1	DPU-P1EH	GWS001-400CP	CP1EH-400, CT-1A, CGWS001A-400, CGWS001-400	
GWS	001	400	C-GWS001B-400CP	#14	19/C	1	DPU-P2AD	GWS001-400CP	CP2AD-400, CT-1A, CGWS001A-400, CGWS001-400	
GWS	001	400	C-SOV131-400MO	#14	1/C	2	JBGWS2-400	SOV131-400	CSOV131A-400, CSOV131B-400	SOV131 POWER
GWS	001	400	C-SOV131-400ZSO	#14	1/C	2	JBGWS2-400	SOV131-400	CSOV131A-400, CSOV131C-400, CSOV131E-400	SOV131 OPEN LIMIT SWITCH
GWS	001	400	C-SOV131-400ZSC	#14	1/C	2	JBGWS2-400	SOV131-400	CSOV131A-400, CSOV131C-400, CSOV131D-400	SOV131 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV132-400MO	#14	1/C	2	JBGWS2-400	SOV132-400	CSOV132A-400, CSOV132B-400	SOV132 POWER
GWS	001	400	C-SOV132-400ZSO	#14	1/C	2	JBGWS2-400	SOV132-400	CSOV132A-400, CSOV132C-400, CSOV132E-400	SOV132 OPEN LIMIT SWITCH
GWS	001	400	C-SOV132-400ZSC	#14	1/C	2	JBGWS2-400	SOV132-400	CSOV132A-400, CSOV132C-400, CSOV132D-400	SOV132 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV133-400MO	#14	1/C	2	JBGWS2-400	SOV133-400	CSOV133A-400, CSOV133B-400	SOV133 POWER
GWS	001	400	C-SOV133-400ZSO	#14	1/C	2	JBGWS2-400	SOV133-400	CSOV133A-400, CSOV133C-400, CSOV133E-400	SOV133 OPEN LIMIT SWITCH
GWS	001	400	C-SOV133-400ZSC	#14	1/C	2	JBGWS2-400	SOV133-400	CSOV133A-400, CSOV133C-400, CSOV133D-400	SOV133 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV134-400MO	#14	1/C	2	JBGWS2-400	SOV134-400	CSOV134A-400, CSOV134B-400	SOV134 POWER

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
GWS	001	400	C-SOV134-400ZSO	#14	1/C	2	JBGWS2-400	SOV134-400	CSOV134A-400, CSOV134C-400, CSOV134E-400	SOV134 OPEN LIMIT SWITCH
GWS	001	400	C-SOV134-400ZSC	#14	1/C	2	JBGWS2-400	SOV134-400	CSOV134A-400, CSOV134C-400, CSOV134D-400	SOV134 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV135-400MO	#14	1/C	2	JBGWS2-400	SOV135-400	CSOV135A-400, CSOV135B-400	SOV135 POWER
GWS	001	400	C-SOV135-400ZSO	#14	1/C	2	JBGWS2-400	SOV135-400	CSOV135A-400, CSOV135C-400, CSOV135E-400	SOV135 OPEN LIMIT SWITCH
GWS	001	400	C-SOV135-400ZSC	#14	1/C	2	JBGWS2-400	SOV135-400	CSOV135A-400, CSOV135C-400, CSOV135D-400	SOV135 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV136-400MO	#14	1/C	2	JBGWS3-400	SOV136-400	CSOV136A-400, CSOV136B-400	SOV136 POWER
GWS	001	400	C-SOV136-400ZSO	#14	1/C	2	JBGWS3-400	SOV136-400	CSOV136A-400, CSOV136C-400, CSOV136E-400	SOV136 OPEN LIMIT SWITCH
GWS	001	400	C-SOV136-400ZSC	#14	1/C	2	JBGWS3-400	SOV136-400	CSOV136A-400, CSOV136C-400, CSOV136D-400	SOV136 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV137-400MO	#14	1/C	2	JBGWS3-400	SOV137-400	CSOV137A-400, CSOV137B-400	SOV137 POWER
GWS	001	400	C-SOV137-400ZSO	#14	1/C	2	JBGWS3-400	SOV137-400	CSOV137A-400, CSOV137C-400, CSOV137E-400	SOV137 OPEN LIMIT SWITCH
GWS	001	400	C-SOV137-400ZSC	#14	1/C	2	JBGWS3-400	SOV137-400	CSOV137A-400, CSOV137C-400, CSOV137D-400	SOV137 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV138-400MO	#14	1/C	2	JBGWS3-400	SOV138-400	CSOV138A-400, CSOV138B-400	SOV138 POWER
GWS	001	400	C-SOV138-400ZSO	#14	1/C	2	JBGWS3-400	SOV138-400	CSOV138A-400, CSOV138C-400, CSOV138E-400	SOV138 OPEN LIMIT SWITCH
GWS	001	400	C-SOV138-400ZSC	#14	1/C	2	JBGWS3-400	SOV138-400	CSOV138A-400, CSOV138C-400, CSOV138D-400	SOV138 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV139-400MO	#14	1/C	2	JBGWS3-400	SOV139-400	CSOV139A-400, CSOV139B-400	SOV139 POWER
GWS	001	400	C-SOV139-400ZSO	#14	1/C	2	JBGWS3-400	SOV139-400	CSOV139A-400, CSOV139C-400, CSOV139E-400	SOV139 OPEN LIMIT SWITCH
GWS	001	400	C-SOV139-400ZSC	#14	1/C	2	JBGWS3-400	SOV139-400	CSOV139A-400, CSOV139C-400, CSOV139D-400	SOV139 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV140-400MO	#14	1/C	2	JBGWS1-400	SOV140-400	CSOV140A-400, CSOV140B-400	SOV140 POWER
GWS	001	400	C-SOV140-400ZSO	#14	1/C	2	JBGWS1-400	SOV140-400	CSOV140A-400, CSOV140C-400, CSOV140E-400	SOV140 OPEN LIMIT SWITCH
GWS	001	400	C-SOV140-400ZSC	#14	1/C	2	JBGWS1-400	SOV140-400	CSOV140A-400, CSOV140C-400, CSOV140D-400	SOV140 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV141-400MO	#14	1/C	2	JBGWS1-400	SOV141-400	CSOV141A-400, CSOV141B-400	SOV141 POWER
GWS	001	400	C-SOV141-400ZSO	#14	1/C	2	JBGWS1-400	SOV141-400	CSOV141A-400, CSOV141C-400, CSOV141E-400	SOV141 OPEN LIMIT SWITCH
GWS	001	400	C-SOV141-400ZSC	#14	1/C	2	JBGWS1-400	SOV141-400	CSOV141A-400, CSOV141C-400, CSOV141D-400	SOV141 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV142-400MO	#14	1/C	2	JBGWS1-400	SOV142-400	CSOV142A-400, CSOV142B-400	SOV142 POWER
GWS	001	400	C-SOV142-400ZSO	#14	1/C	2	JBGWS1-400	SOV142-400	CSOV142A-400, CSOV142C-400, CSOV142E-400	SOV142 OPEN LIMIT SWITCH
GWS	001	400	C-SOV142-400ZSC	#14	1/C	2	JBGWS1-400	SOV142-400	CSOV142A-400, CSOV142C-400, CSOV142D-400	SOV142 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV143-400MO	#14	1/C	2	JBGWS1-400	SOV143-400	CSOV143A-400, CSOV143B-400	SOV143 POWER
GWS	001	400	C-SOV143-400ZSO	#14	1/C	2	JBGWS1-400	SOV143-400	CSOV143A-400, CSOV143C-400, CSOV143E-400	SOV143 OPEN LIMIT SWITCH
GWS	001	400	C-SOV143-400ZSC	#14	1/C	2	JBGWS1-400	SOV143-400	CSOV143A-400, CSOV143C-400, CSOV143D-400	SOV143 CLOSE LIMIT SWITCH
GWS	001	400	C-SOV144-400MO	#14	1/C	2	JBGWS1-400	SOV144-400	CSOV144A-400, CSOV144B-400	SOV144 POWER
GWS	001	400	C-SOV144-400ZSO	#14	1/C	2	JBGWS1-400	SOV144-400	CSOV144A-400, CSOV144C-400, CSOV144E-400	SOV144 OPEN LIMIT SWITCH
GWS	001	400	C-SOV144-400ZSC	#14	1/C	2	JBGWS1-400	SOV144-400	CSOV144A-400, CSOV144C-400, CSOV144D-400	SOV144 CLOSE LIMIT SWITCH
GWS	001	400	C-JBGWS1-400	#14	1/C	30	GWSVCP-400	JBGWS1-400	CJBGWS1-400	DIGITAL TO JB FROM VCP
GWS	001	400	C-JBGWS2-400	#14	1/C	30	GWSVCP-400	JBGWS2-400	CJBGWS2-400	DIGITAL TO JB FROM VCP
GWS	001	400	C-JBGWS3-400	#14	1/C	30	GWSVCP-400	JBGWS3-400	CJBGWS3-400	DIGITAL TO JB FROM VCP
GWS	001	400	P-GWSVCP-400	#12	1/C	3	GWSVCP-400	BCP002-400	PGWSVCP-400	VALVE CP 120V POWER
GWS	001	400	C-GWSVCPA-400	#14	19/C	2	GWSVCP-400	DPU-P1EH	CGWSVCP-400, DPU-P1EH	VALVE CP TO DPU
GWS	001	400	C-GWSVCPB-400	#14	25/C	3	GWSVCP-400	DPU-P2AD	CGWSVCP-400, DPU-P2AD	VALVE CP TO DPU
GWS	001	400	C-GWSVCP-400	#14	25/C	2	GWSVCP-400	DPU-P2EH	CGWSVCP-400, DPU-P2EH	VALVE CP TO DPU
GWS	002	400	P-GWS002-400	#12	4/C	1	MCC046-400B	GWS002-400CP	PGWS002C-400, PT-14, PGWS002-400	Mix Room Grinder No 2 (Waste Sludge Grinder No 2)
GWS	002	400	C-GWS002-400HTR	#14	1/C	2	GWS002-400CP	GWS002-400HTR	CGWS002A-400, CGWS002B-400, PGWS002B-400	Mix Room Grinder No 2 (Waste Sludge Grinder No 2)
GWS	002	400	P-GWS002A-400	#12	1/C	4	GWS002-400CP	GWS002-400MO	PGWS002A-400, PGWS002B-400	Mix Room Grinder No 2 (Waste Sludge Grinder No 2)
GWS	002	400	C-GWS002A-400CP	#14	19/C	1	DPU-P1EH	GWS002-400CP	CP1EH-400, CT-1A, CGWS002A-400, CGWS002-400	
GWS	002	400	C-GWS002B-400CP	#14	19/C	1	DPU-P2EH	GWS002-400CP	CP2EH-400, CT-1A, CGWS002A-400, CGWS002-400	
GWS	003	400	P-GWS003-400	#12	4/C	1	MCC046-400A	GWS003-400CP	GWS003C-400, PT-14, PGWS003-400	Mix Room Grinder No 3 (Waste Sludge Grinder No 3)
GWS	003	400	C-GWS003-400HTR	#14	1/C	2	GWS003-400CP	GWS003-400HTR	CGWS003A-400, CGWS003B-400, PGWS003B-400	Mix Room Grinder No 3 (Waste Sludge Grinder No 3)
GWS	003	400	P-GWS003A-400	#12	1/C	4	GWS003-400CP	GWS003-400MO	PGWS003A-400, PGWS003B-400	Mix Room Grinder No 3 (Waste Sludge Grinder No 3)
GWS	003	400	C-GWS003-400CS2	#14	1/C	4	GWS003-400CP	GWS003-400CS2	CGWS003A-400, CGWS003C-400	
GWS	003	400	C-GWS003A-400CP	#14	19/C	1	DPU-P2AD	GWS003-400CP	CP2AD-400, CT-1A, CGWS003A-400, CGWS003-400	
GWS	003	400	C-GWS003B-400CP	#14	19/C	1	DPU-P2EH	GWS003-400CP	CP2EH-400, CT-1A, CGWS003A-400, CGWS003-400	
GWS	004	400	P-GWS004-400	#12	4/C	1	MCC046-400B	GWS004-400CP	GWS004C-400, PT-14, PGWS004-400	Mix Room Grinder No 4 (Waste Sludge Grinder No 4)
GWS	004	400	C-GWS004-400HTR	#14	1/C	2	GWS004-400CP	GWS004-400HTR	CGWS004A-400, CGWS004B-400, PGWS004B-400	Mix Room Grinder No 4 (Waste Sludge Grinder No 4)
GWS	004	400	P-GWS004A-400	#12	1/C	4	GWS004-400CP	GWS004-400MO	PGWS002A-400, PGWS004B-400	Mix Room Grinder No 4 (Waste Sludge Grinder No 4)
GWS	004	400	C-GWS004A-400CP	#14	19/C	1	DPU-P2AD	GWS004-400CP	CP2AD-400, CT-1A, CGWS004A-400, CGWS004-400	
GWS	004	400	C-GWS004B-400CP	#14	19/C	1	DPU-P2EH	GWS004-400CP	CP2EH-400, CT-1A, CGWS004A-400, CGWS004-400	

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
GWS	004	400	C-GWS004-400CS2	#14	1/C	4	GWS004-400CP	GWS004-400CS2	CGWS003A-400, CGWS003C-400	
HSC	001	400	P-HSC001-400CP	350&G	3C&G	1	USS015-400	HSC001-400CP	PHSC001L-400, PT-10, PHSC001A-400	
HSC	001	400	P-HSC001A-400	3/0&G	3C&G	1	HSC001-400CP	HSC001-400MO	PHSC001C-400, PT-1, PHSC001G-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	001	400	P-HSC001B-400	#1&G	3C&G	1	HSC001-400CP	HSC001-400MOB	PHSC001E-400, PT-1, PHSC001J-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	001	400	P-HSC001-400MO	#12	3/C	1	HSC001-400CP	HSC001-400MO	PHSC001B-400, PT-16, PHSC001H-400	120V-P TO BOWL MOTOR
HSC	001	400	P-HSC001-400MOB	#12	3/C	1	HSC001-400CP	HSC001-400MOB	PHSC001B-400, PT-16, PHSC001K-400	120V-P TO SCROLL MOTOR
HSC	001	400	C-HSC001-400MOB	#16	3/C SHLD	1	HSC001-400CP	HSC001-400MOB	CHSC001SM-400	24V-C TO SCROLL MOTOR
HSC	001	400	C-HSC001-400MO	#16	3/C SHLD	1	HSC001-400CP	HSC001-400MO	CHSC001BM-400	24V-C TO BOWL MOTOR
HSC	001	400	C-HSC001-400X6JB	#14	5/C	1	HSC001-400CP	HSC001-400X6JB	CHSC001B-400, CT-3, CHSC001X6-400	120V-C TO X6JB
HSC	001	400	C-HSC001-400X47JB	#14	9/C	1	HSC001-400CP	HSC001-400X47JB	CHSC001B-400, CT-3, CHSC001X47-400	120V-C TO X47JB
HSC	001	400	C-HSC001-400X48JB	#14	5/C	1	HSC001-400CP	HSC001-400X48JB	CHSC001B-400, CT-3, CHSC001X48-400	120V-C TO X48JB
HSC	001	400	C-HSC001-400BLV059	#14	3/C	1	HSC001-400CP	HSC001-400BLV059	CHSC001B-400, CT-3, CHSC001CFW-400, CHSC001CFWB-400	120V-C TO BALL VALVE
HSC	001	400	C-HSC001-400FWFS	#14	3/C	1	HSC001-400CP	HSC001-400FWFS	CHSC001B-400, CT-3, CHSC001CFW-400, CHSC001CFWA-400	120V-C TO FLOW SWITCH
HSC	001	400	P-HSC001-400BLV059	#12	3/C	1	HSC001-400CP	HSC001-400BLV059	PHSC001B-400, PT-16, PHSC001CFW-400	120V-P TO BALL VALVE
HSC	001	400	I-HSC001-400IJB	#16	2/C T.S.	2	HSC001-400CP	HSC001-400IJB	IHSC001A-400	ANALOG MCP TO IJB
HSC	001	400	I-HSC001-400IJB	#16	3/C T.S.	9	HSC001-400CP	HSC001-400IJB	IHSC001A-400	ANALOG MCP TO IJB
HSC	001	400	I-HSC001-400X11JB	#16	3/C T.S.	2	HSC001-400IJB	HSC001-400X11JB	IHSC001X11-400	ANALOG TO X11 JB
HSC	001	400	I-HSC001-400X47JBA	#16	2/C T.S.	2	HSC001-400IJB	HSC001-400X47JB	IHSC001X47-400	ANALOG TO X47 JB
HSC	001	400	I-HSC001-400X47JBB	#16	3/C T.S.	2	HSC001-400IJB	HSC001-400X47JB	IHSC001X47-400	ANALOG TO X47 JB
HSC	001	400	I-HSC001-400X10JB	#16	3/C T.S.	2	HSC001-400IJB	HSC001-400X10JB	IHSC001X10-400	ANALOG TO X10 JB
HSC	001	400	I-HSC001-400X60JB	#16	3/C T.S.	3	HSC001-400IJB	HSC001-400X60JB	IHSC001X60-400	ANALOG TO X60 JB
HSC	001	400	I-HSC001-400X20JB	#16	3/C T.S.	2	HSC001-400LCP	HSC001-400X20JB	IHSC001X20-400	ANALOG TO X20 JB
HSC	001	400	C-HSC001-400LCP	#14	19/C	1	HSC001-400CP	HSC001-400LCP	CHSC001B-400, CT-3, CHSC001D-400	120V-C TO LOCAL CP
HSC	001	400	P-HSC001-400LCP	#10	3/C	1	HSC001-400CP	HSC001-400LCP	PHSC001B-400, PT-16, PHSC001Q-400	120V-P TO LOCAL CP
HSC	001	400	I-HSC001-400LCP	ETHERNET	ETHERNET	1	HSC001-400CP	HSC001-400LCP	IHSC001F-400	ANALOG TO LOCAL CP
HSC	001	400	P-HSC001C-400	#12	3/C	1	HSC001-400CP	BCP001-400	PHSC001B-400, PT-16, PHSC001D	120V-P FROM POWER PANEL
HSC	001	400	I-HSC001C-400	#16	2/C T.S.	3	HSC001-400CP	DPU-P1AD	IHSC001C-400, I4103-400, I4105-400, IP2AD-400	ANALOG TO DPU
HSC	001	400	C-HSC001A-400	#16	19/C	2	HSC001-400CP	DPU-P2AD	CHSC001A-400, CT-1, CP2AD-400	DIGITAL TO DPU
HSC	001	400	I-HSC001B-400	ETHERNET	ETHERNET	1	HSC001-400CP	DPU-P1EH	IHSC001B-400, I4109-400, I4110, IP1EH-400	ETHERNET TO DPU
HSC	001	400	C-HSC001B-400	#14	12/C	1	HSC001-400IP	DPU-P2AD	CHSC001E-400, CT-3, CP2AD-400	DIGITAL IP TO DPU
HSC	001	400	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
HSC	001	400	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
HSC	002	400	P-HSC002-400CP	350&G	3C&G	1	USS015-400	HSC002-400CP	PHSC002L-400, PT-10, PHSC002A-400	
HSC	002	400	P-HSC002A-400	3/0&G	3C&G	1	HSC002-400CP	HSC002-400MO	PHSC002C-400, PT-1, PHSC002G-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	002	400	P-HSC002B-400	#1&G	3C&G	1	HSC002-400CP	HSC002-400MOB	PHSC002E-400, PT-1, PHSC002J-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	002	400	C-HSC002-400MO	#16	3/C SHLD	1	HSC002-400CP	HSC002-400MO	CHSC002BM-400	24V-C TO BOWL MOTOR
HSC	002	400	C-HSC002-400X6JB	#14	5/C	1	HSC002-400CP	HSC002-400X6JB	CHSC002B-400, CT-3, CHSC002X6-400	120V-C TO X6JB
HSC	002	400	C-HSC002-400X47JB	#14	9/C	1	HSC002-400CP	HSC002-400X47JB	CHSC002B-400, CT-3, CHSC002X47-400	120V-C TO X47JB
HSC	002	400	C-HSC002-400X48JB	#14	5/C	1	HSC002-400CP	HSC002-400X48JB	CHSC002B-400, CT-3, CHSC002X48-400	120V-C TO X48JB
HSC	002	400	C-HSC002-400BLV059	#14	3/C	1	HSC002-400CP	HSC002-400BLV059	CHSC002B-400, CT-3, CHSC002CFW-400, CHSC002CFWB-400	120V-C TO BALL VALVE
HSC	002	400	C-HSC002-400FWFS	#14	3/C	1	HSC002-400CP	HSC002-400FWFS	CHSC002B-400, CT-3, CHSC002CFW-400, CHSC002CFWA-400	120V-C TO FLOW SWITCH
HSC	002	400	P-HSC002-400BLV059	#12	3/C	1	HSC002-400CP	HSC002-400BLV059	PHSC002B-400, PT-16, PHSC002CFW-400	120V-P TO BALL VALVE
HSC	002	400	I-HSC002-400IJB	#16	2/C T.S.	2	HSC002-400CP	HSC002-400IJB	IHSC002A-400	ANALOG MCP TO IJB
HSC	002	400	I-HSC002-400IJB	#16	3/C T.S.	9	HSC002-400CP	HSC002-400IJB	IHSC002A-400	ANALOG MCP TO IJB
HSC	002	400	I-HSC002-400X11JB	#16	3/C T.S.	2	HSC002-400IJB	HSC002-400X11JB	IHSC002X11-400	ANALOG TO X11 JB
HSC	002	400	I-HSC002-400X47JBA	#16	2/C T.S.	2	HSC002-400IJB	HSC002-400X47JB	IHSC002X47-400	ANALOG TO X47 JB
HSC	002	400	I-HSC002-400X47JBB	#16	3/C T.S.	2	HSC002-400IJB	HSC002-400X47JB	IHSC002X47-400	ANALOG TO X47 JB
HSC	002	400	I-HSC002-400X10JB	#16	3/C T.S.	2	HSC002-400IJB	HSC002-400X10JB	IHSC002X10-400	ANALOG TO X10 JB
HSC	002	400	I-HSC002-400X60JB	#16	3/C T.S.	3	HSC002-400IJB	HSC002-400X60JB	IHSC002X60-400	ANALOG TO X60 JB
HSC	002	400	I-HSC002-400X20JB	#16	3/C T.S.	2	HSC002-400LCP	HSC002-400X20JB	IHSC002X20-400	ANALOG TO X20 JB
HSC	002	400	C-HSC002-400LCP	#14	19/C	1	HSC002-400CP	HSC002-400LCP	CHSC002B-400, CT-3, CHSC002D-400	120V-C TO LOCAL CP
HSC	002	400	P-HSC002-400LCP	#10	3/C	1	HSC002-400CP	HSC002-400LCP	PHSC002B-400, PT-16, PHSC002Q-400	120V-P TO LOCAL CP
HSC	002	400	I-HSC002-400LCP	ETHERNET	ETHERNET	1	HSC002-400CP	HSC002-400LCP	IHSC002F-400	ANALOG TO LOCAL CP
HSC	002	400	P-HSC002C-400	#12	3/C	1	HSC002-400CP	BCP002-400	PHSC002B-400, PT-16, PHSC002D	120V-P FROM POWER PANEL
HSC	002	400	I-HSC002C-400	#16	2/C T.S.	3	HSC002-400CP	DPU-P1AD	IHSC002C-400, I4103-400, I4105-400, IP2AD-400	ANALOG TO DPU

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
HSC	002	400	C-HSC002A-400	#16	19/C	2	HSC002-400CP	DPU-P2AD	CHSC002A-400, CT-1, CP2AD-400	DIGITAL TO DPU
HSC	002	400	I-HSC002B-400	ETHERNET	ETHERNET	1	HSC002-400CP	DPU-P1EH	IHSC002B-400, I4108-400, I4110, IP1EH-400	ETHERNET TO DPU
HSC	002	400	C-HSC002B-400	#14	12/C	1	HSC002-400IP	DPU-P2AD	CHSC002E-400, CT-3, CP2AD-400	DIGITAL IP TO DPU
HSC	002	400	I-HSC002D-400	#16	2/C T.S.	4	HSC002-400IP	DPU-P1AD	IHSC002D-400, I4114-400, I4115-400, I4116-400, I4117-400, I4118-400, I4119-400, IP1AD-400	ANALOG IP TO DPU
HSC	002	400	I-HSC002E-400	ETHERNET	ETHERNET	1	HSC002-400IP	DPU-P1EH	IHSC002E-400, I4120-400, I4121-400, I4122-400, I4123-400, I4124, I4125-400, IP1EH-400	ETHERNET IP TO DPU
HSC	003	400	P-HSC003-400CP	350&G	3C&G	1	USS015-400	HSC003-400CP	PHSC003L-400, PT-10, PHSC003A-400	
HSC	003	400	P-HSC003A-400	3/0&G	3C&G	1	HSC003-400CP	HSC003-400MO	PHSC003C-400, PT-1, PHSC003G-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	003	400	P-HSC003B-400	#1&G	3C&G	1	HSC003-400CP	HSC003-400MOB	PHSC003E-400, PT-1, PHSC003J-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	003	400	C-HSC003-400MO	#16	3/C SHLD	1	HSC003-400CP	HSC003-400MO	CHSC003BM-400	24V-C TO BOWL MOTOR
HSC	003	400	C-HSC003-400X6JB	#14	5/C	1	HSC003-400CP	HSC003-400X6JB	CHSC003B-400, CT-3, CHSC003X6-400	120V-C TO X6JB
HSC	003	400	C-HSC003-400X47JB	#14	9/C	1	HSC003-400CP	HSC003-400X47JB	CHSC003B-400, CT-3, CHSC003X47-400	120V-C TO X47JB
HSC	003	400	C-HSC003-400X48JB	#14	5/C	1	HSC003-400CP	HSC003-400X48JB	CHSC003B-400, CT-3, CHSC003X48-400	120V-C TO X48JB
HSC	003	400	C-HSC003-400BLV059	#14	3/C	1	HSC003-400CP	HSC003-400BLV059	CHSC003B-400, CT-3, CHSC003CFW-400, CHSC003CFWB-400	120V-C TO BALL VALVE
HSC	003	400	C-HSC003-400FWFS	#14	3/C	1	HSC003-400CP	HSC003-400FWFS	CHSC003B-400, CT-3, CHSC003CFW-400, CHSC003CFWA-400	120V-C TO FLOW SWITCH
HSC	003	400	P-HSC003-400BLV059	#12	3/C	1	HSC003-400CP	HSC003-400BLV059	PHSC003B-400, PT-16, PHSC003CFW-400	120V-P TO BALL VALVE
HSC	003	400	I-HSC003-400IJB	#16	2/C T.S.	2	HSC003-400CP	HSC003-400IJB	IHSC003A-400	ANALOG MCP TO IJB
HSC	003	400	I-HSC003-400IJB	#16	3/C T.S.	9	HSC003-400CP	HSC003-400IJB	IHSC003A-400	ANALOG MCP TO IJB
HSC	003	400	I-HSC003-400X11JB	#16	3/C T.S.	2	HSC003-400IJB	HSC003-400X11JB	IHSC003X11-400	ANALOG TO X11 JB
HSC	003	400	I-HSC003-400X47JBA	#16	2/C T.S.	2	HSC003-400IJB	HSC003-400X47JB	IHSC003X47-400	ANALOG TO X47 JB
HSC	003	400	I-HSC003-400X47JBB	#16	3/C T.S.	2	HSC003-400IJB	HSC003-400X47JB	IHSC003X47-400	ANALOG TO X47 JB
HSC	003	400	I-HSC003-400X10JB	#16	3/C T.S.	2	HSC003-400IJB	HSC003-400X10JB	IHSC003X10-400	ANALOG TO X10 JB
HSC	003	400	I-HSC003-400X60JB	#16	3/C T.S.	3	HSC003-400IJB	HSC003-400X60JB	IHSC003X60-400	ANALOG TO X60 JB
HSC	003	400	I-HSC003-400X20JB	#16	3/C T.S.	2	HSC003-400LCP	HSC003-400X20JB	IHSC003X20-400	ANALOG TO X20 JB
HSC	003	400	C-HSC003-400LCP	#14	19/C	1	HSC003-400CP	HSC003-400LCP	CHSC003B-400, CT-3, CHSC003D-400	120V-C TO LOCAL CP
HSC	003	400	P-HSC003-400LCP	#10	3/C	1	HSC003-400CP	HSC003-400LCP	PHSC003B-400, PT-16, PHSC003Q-400	120V-P TO LOCAL CP
HSC	003	400	I-HSC003-400LCP	ETHERNET	ETHERNET	1	HSC003-400CP	HSC003-400LCP	IHSC003F-400	ANALOG TO LOCAL CP
HSC	003	400	P-HSC003C-400	#12	3/C	1	HSC003-400CP	BCP003-400	PHSC003B-400, PT-16, PHSC003D	120V-P FROM POWER PANEL
HSC	003	400	I-HSC003C-400	#16	2/C T.S.	3	HSC003-400CP	DPU-P1AD	IHSC003C-400, I4103-400, I4105-400, IP2AD-400	ANALOG TO DPU
HSC	003	400	C-HSC003A-400	#16	19/C	2	HSC003-400CP	DPU-P2AD	CHSC003A-400, CT-1, CP2AD-400	DIGITAL TO DPU
HSC	003	400	I-HSC003B-400	ETHERNET	ETHERNET	1	HSC003-400CP	DPU-P1EH	IHSC003B-400, I4109-400, I4110, IP1EH-400	ETHERNET TO DPU
HSC	003	400	C-HSC003B-400	#14	12/C	1	HSC003-400IP	DPU-P2AD	CHSC003E-400, CT-3, CP2AD-400	DIGITAL IP TO DPU
HSC	003	400	I-HSC003D-400	#16	2/C T.S.	4	HSC003-400IP	DPU-P1AD	IHSC003D-400, I4115-400, I4116-400, I4117-400, I4118-400, I4119-400, IP1AD-400	ANALOG IP TO DPU
HSC	003	400	I-HSC003E-400	ETHERNET	ETHERNET	1	HSC003-400IP	DPU-P1EH	IHSC003E-400, I4121-400, I4122-400, I4123-400, I4124, I4125-400, IP1EH-400	ETHERNET IP TO DPU
HSC	004	400	P-HSC004-400CP	350&G	3C&G	1	USS015-400	HSC004-400CP	PHSC004L-400, PT-10, PHSC004A-400	
HSC	004	400	P-HSC004A-400	3/0&G	3C&G	1	HSC004-400CP	HSC004-400MO	PHSC004C-400, PT-1, PHSC004G-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	004	400	P-HSC004B-400	#1&G	3C&G	1	HSC004-400CP	HSC004-400MOB	PHSC004E-400, PT-1, PHSC004J-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	004	400	C-HSC004-400MO	#16	3/C SHLD	1	HSC004-400CP	HSC004-400MO	CHSC004BM-400	24V-C TO BOWL MOTOR
HSC	004	400	C-HSC004-400X6JB	#14	5/C	1	HSC004-400CP	HSC004-400X6JB	CHSC004B-400, CT-3, CHSC004X6-400	120V-C TO X6JB
HSC	004	400	C-HSC004-400X47JB	#14	9/C	1	HSC004-400CP	HSC004-400X47JB	CHSC004B-400, CT-3, CHSC004X47-400	120V-C TO X47JB
HSC	004	400	C-HSC004-400X48JB	#14	5/C	1	HSC004-400CP	HSC004-400X48JB	CHSC004B-400, CT-3, CHSC004X48-400	120V-C TO X48JB
HSC	004	400	C-HSC004-400BLV059	#14	3/C	1	HSC004-400CP	HSC004-400BLV059	CHSC004B-400, CT-3, CHSC004CFW-400, CHSC004CFWB-400	120V-C TO BALL VALVE
HSC	004	400	C-HSC004-400FWFS	#14	3/C	1	HSC004-400CP	HSC004-400FWFS	CHSC004B-400, CT-3, CHSC004CFW-400, CHSC004CFWA-400	120V-C TO FLOW SWITCH
HSC	004	400	P-HSC004-400BLV059	#12	3/C	1	HSC004-400CP	HSC004-400BLV059	PHSC004B-400, PT-16, PHSC004CFW-400	120V-P TO BALL VALVE
HSC	004	400	I-HSC004-400IJB	#16	2/C T.S.	2	HSC004-400CP	HSC004-400IJB	IHSC004A-400	ANALOG MCP TO IJB
HSC	004	400	I-HSC004-400IJB	#16	3/C T.S.	9	HSC004-400CP	HSC004-400IJB	IHSC004A-400	ANALOG MCP TO IJB
HSC	004	400	I-HSC004-400X11JB	#16	3/C T.S.	2	HSC004-400IJB	HSC004-400X11JB	IHSC004X11-400	ANALOG TO X11 JB
HSC	004	400	I-HSC004-400X47JBA	#16	2/C T.S.	2	HSC004-400IJB	HSC004-400X47JB	IHSC004X47-400	ANALOG TO X47 JB
HSC	004	400	I-HSC004-400X47JBB	#16	3/C T.S.	2	HSC004-400IJB	HSC004-400X47JB	IHSC004X47-400	ANALOG TO X47 JB
HSC	004	400	I-HSC004-400X10JB	#16	3/C T.S.	2	HSC004-400IJB	HSC004-400X10JB	IHSC004X10-400	ANALOG TO X10 JB
HSC	004	400	I-HSC004-400X60JB	#16	3/C T.S.	3	HSC004-400IJB	HSC004-400X60JB	IHSC004X60-400	ANALOG TO X60 JB
HSC	004	400	I-HSC004-400X20JB	#16	3/C T.S.	2	HSC004-400LCP	HSC004-400X20JB	IHSC004X20-400	ANALOG TO X20 JB
HSC	004	400	C-HSC004-400LCP	#14	19/C	1	HSC004-400CP	HSC004-400LCP	CHSC004B-400, CT-3, CHSC004D-400	120V-C TO LOCAL CP
HSC	004	400	P-HSC004-400LCP	#10	3/C	1	HSC004-400CP	HSC004-400LCP	PHSC004B-400, PT-16, PHSC004Q-400	120V-P TO LOCAL CP
HSC	004	400	I-HSC004-400LCP	ETHERNET	ETHERNET	1	HSC004-400CP	HSC004-400LCP	IHSC004F-400	ANALOG TO LOCAL CP
HSC	004	400	P-HSC004C-400	#12	3/C	1	HSC004-400CP	BCP004-400	PHSC004B-400, PT-16, PHSC004D	120V-P FROM POWER PANEL

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
HSC	004	400	I-HSC004C-400	#16	2/C T.S.	3	HSC004-400CP	DPU-P1AD	IHSC004C-400, I4104-400, I4105-400, IP2AD-400	ANALOG TO DPU
HSC	004	400	C-HSC004A-400	#16	19/C	2	HSC004-400CP	DPU-P2AD	CHSC004A-400, CT-1, CP2AD-400	DIGITAL TO DPU
HSC	004	400	I-HSC004B-400	ETHERNET	ETHERNET	1	HSC004-400CP	DPU-P1EH	IHSC004B-400, I4108-400, I4110, IP1EH-400	ETHERNET TO DPU
HSC	004	400	C-HSC004B-400	#14	12/C	1	HSC004-400IP	DPU-P2AD	CHSC004E-400, CT-3, CP2AD-400	DIGITAL IP TO DPU
HSC	004	400	I-HSC004D-400	#16	2/C T.S.	4	HSC004-400IP	DPU-P1AD	IHSC004D-400,I4116-400, I4117-400, I4118-400, I4119-400, IP1AD-400	ANALOG IP TO DPU
HSC	004	400	I-HSC004E-400	ETHERNET	ETHERNET	1	HSC004-400IP	DPU-P1EH	IHSC004E-400, I4122-400, I4123-400, I4124, I4125-400, IP1EH-400	ETHERNET IP TO DPU
HSC	005	400	P-HSC005-400CP	350&G	3C&G	1	USS015-400	HSC005-400CP	PHSC005L-400, PT-10, PHSC005A-400	
HSC	005	400	P-HSC005A-400	3/0&G	3C&G	1	HSC005-400CP	HSC005-400MO	PHSC005C-400, PT-1, PHSC005G-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	005	400	P-HSC005B-400	#1&G	3C&G	1	HSC005-400CP	HSC005-400MOB	PHSC005E-400, PT-1, PHSC005J-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	005	400	C-HSC005-400MO	#16	3/C SHLD	1	HSC005-400CP	HSC005-400MO	CHSC005BM-400	24V-C TO BOWL MOTOR
HSC	005	400	C-HSC005-400X6JB	#14	5/C	1	HSC005-400CP	HSC005-400X6JB	CHSC005B-400, CT-3, CHSC005X6-400	120V-C TO X6JB
HSC	005	400	C-HSC005-400X47JB	#14	9/C	1	HSC005-400CP	HSC005-400X47JB	CHSC005B-400, CT-3, CHSC005X47-400	120V-C TO X47JB
HSC	005	400	C-HSC005-400X48JB	#14	5/C	1	HSC005-400CP	HSC005-400X48JB	CHSC005B-400, CT-3, CHSC005X48-400	120V-C TO X48JB
HSC	005	400	C-HSC005-400BLV059	#14	3/C	1	HSC005-400CP	HSC005-400BLV059	CHSC005B-400, CT-3, CHSC005CFW-400, CHSC005CFWB-400	120V-C TO BALL VALVE
HSC	005	400	C-HSC005-400FWFS	#14	3/C	1	HSC005-400CP	HSC005-400FWFS	CHSC005B-400, CT-3, CHSC005CFW-400, CHSC005CFWA-400	120V-C TO FLOW SWITCH
HSC	005	400	P-HSC005-400BLV059	#12	3/C	1	HSC005-400CP	HSC005-400BLV059	PHSC005B-400, PT-16, PHSC005CFW-400	120V-P TO BALL VALVE
HSC	005	400	I-HSC005-400IJB	#16	2/C T.S.	2	HSC005-400CP	HSC005-400IJB	IHSC005A-400	ANALOG MCP TO IJB
HSC	005	400	I-HSC005-400IJB	#16	3/C T.S.	9	HSC005-400CP	HSC005-400IJB	IHSC005A-400	ANALOG MCP TO IJB
HSC	005	400	I-HSC005-400X11JB	#16	3/C T.S.	2	HSC005-400IJB	HSC005-400X11JB	IHSC005X11-400	ANALOG TO X11 JB
HSC	005	400	I-HSC005-400X47JBA	#16	2/C T.S.	2	HSC005-400IJB	HSC005-400X47JB	IHSC005X47-400	ANALOG TO X47 JB
HSC	005	400	I-HSC005-400X47JBB	#16	3/C T.S.	2	HSC005-400IJB	HSC005-400X47JB	IHSC005X47-400	ANALOG TO X47 JB
HSC	005	400	I-HSC005-400X10JB	#16	3/C T.S.	2	HSC005-400IJB	HSC005-400X10JB	IHSC005X10-400	ANALOG TO X10 JB
HSC	005	400	I-HSC005-400X60JB	#16	3/C T.S.	3	HSC005-400IJB	HSC005-400X60JB	IHSC005X60-400	ANALOG TO X60 JB
HSC	005	400	I-HSC005-400X20JB	#16	3/C T.S.	2	HSC005-400LCP	HSC005-400X20JB	IHSC005X20-400	ANALOG TO X20 JB
HSC	005	400	C-HSC005-400LCP	#14	19/C	1	HSC005-400CP	HSC005-400LCP	CHSC005B-400, CT-3, CHSC005D-400	120V-C TO LOCAL CP
HSC	005	400	P-HSC005-400LCP	#10	3/C	1	HSC005-400CP	HSC005-400LCP	PHSC005B-400, PT-16, PHSC005Q-400	120V-P TO LOCAL CP
HSC	005	400	I-HSC005-400LCP	ETHERNET	ETHERNET	1	HSC005-400CP	HSC005-400LCP	IHSC005F-400	ANALOG TO LOCAL CP
HSC	005	400	P-HSC005C-400	#12	3/C	1	HSC005-400CP	BCP005-400	PHSC005B-400, PT-16, PHSC005D	120V-P FROM POWER PANEL
HSC	005	400	I-HSC005C-400	#16	2/C T.S.	3	HSC005-400CP	DPU-P1AD	IHSC005C-400, I4107-400, IP2AD-400	ANALOG TO DPU
HSC	005	400	C-HSC005A-400	#16	19/C	2	HSC005-400CP	DPU-P2AD	CHSC005A-400, CT-1, CP2AD-400	DIGITAL TO DPU
HSC	005	400	I-HSC005B-400	ETHERNET	ETHERNET	1	HSC005-400CP	DPU-P1EH	IHSC005B-400, I4113-400, IP1EH-400	ETHERNET TO DPU
HSC	005	400	C-HSC005B-400	#14	12/C	1	HSC005-400IP	DPU-P2AD	CHSC005E-400, CT-3, CP2AD-400	DIGITAL IP TO DPU
HSC	005	400	I-HSC005D-400	#16	2/C T.S.	4	HSC005-400IP	DPU-P1AD	IHSC005D-400, I4117-400, I4118-400, I4119-400, IP1AD-400	ANALOG IP TO DPU
HSC	005	400	I-HSC005E-400	ETHERNET	ETHERNET	1	HSC005-400IP	DPU-P1EH	IHSC005E-400, I4123-400, I4124, I4125-400, IP1EH-400	ETHERNET IP TO DPU
HSC	006	400	P-HSC006-400CP	350&G	3C&G	1	USS015-400	HSC006-400CP	PHSC006L-400, PT-10, PHSC006A-400	
HSC	006	400	P-HSC006A-400	3/0&G	3C&G	1	HSC006-400CP	HSC006-400MO	PHSC006C-400, PT-1, PHSC006G-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	006	400	P-HSC006B-400	#1&G	3C&G	1	HSC006-400CP	HSC006-400MOB	PHSC006E-400, PT-1, PHSC006J-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	006	400	C-HSC006-400MO	#16	3/C SHLD	1	HSC006-400CP	HSC006-400MO	CHSC006BM-400	24V-C TO BOWL MOTOR
HSC	006	400	C-HSC006-400X6JB	#14	5/C	1	HSC006-400CP	HSC006-400X6JB	CHSC006B-400, CT-3, CHSC006X6-400	120V-C TO X6JB
HSC	006	400	C-HSC006-400X47JB	#14	9/C	1	HSC006-400CP	HSC006-400X47JB	CHSC006B-400, CT-3, CHSC006X47-400	120V-C TO X47JB
HSC	006	400	C-HSC006-400X48JB	#14	5/C	1	HSC006-400CP	HSC006-400X48JB	CHSC006B-400, CT-3, CHSC006X48-400	120V-C TO X48JB
HSC	006	400	C-HSC006-400BLV059	#14	3/C	1	HSC006-400CP	HSC006-400BLV059	CHSC006B-400, CT-3, CHSC006CFW-400, CHSC006CFWB-400	120V-C TO BALL VALVE
HSC	006	400	C-HSC006-400FWFS	#14	3/C	1	HSC006-400CP	HSC006-400FWFS	CHSC006B-400, CT-3, CHSC006CFW-400, CHSC006CFWA-400	120V-C TO FLOW SWITCH
HSC	006	400	P-HSC006-400BLV059	#12	3/C	1	HSC006-400CP	HSC006-400BLV059	PHSC006B-400, PT-16, PHSC006CFW-400	120V-P TO BALL VALVE
HSC	006	400	I-HSC006-400IJB	#16	2/C T.S.	2	HSC006-400CP	HSC006-400IJB	IHSC006A-400	ANALOG MCP TO IJB
HSC	006	400	I-HSC006-400IJB	#16	3/C T.S.	9	HSC006-400CP	HSC006-400IJB	IHSC006A-400	ANALOG MCP TO IJB
HSC	006	400	I-HSC006-400X11JB	#16	3/C T.S.	2	HSC006-400IJB	HSC006-400X11JB	IHSC006X11-400	ANALOG TO X11 JB
HSC	006	400	I-HSC006-400X47JBA	#16	2/C T.S.	2	HSC006-400IJB	HSC006-400X47JB	IHSC006X47-400	ANALOG TO X47 JB
HSC	006	400	I-HSC006-400X47JBB	#16	3/C T.S.	2	HSC006-400IJB	HSC006-400X47JB	IHSC006X47-400	ANALOG TO X47 JB
HSC	006	400	I-HSC006-400X10JB	#16	3/C T.S.	2	HSC006-400IJB	HSC006-400X10JB	IHSC006X10-400	ANALOG TO X10 JB
HSC	006	400	I-HSC006-400X60JB	#16	3/C T.S.	3	HSC006-400IJB	HSC006-400X60JB	IHSC006X60-400	ANALOG TO X60 JB
HSC	006	400	I-HSC006-400X20JB	#16	3/C T.S.	2	HSC006-400LCP	HSC006-400X20JB	IHSC006X20-400	ANALOG TO X20 JB
HSC	006	400	C-HSC006-400LCP	#14	19/C	1	HSC006-400CP	HSC006-400LCP	CHSC006B-400, CT-3, CHSC006D-400	120V-C TO LOCAL CP
HSC	006	400	P-HSC006-400LCP	#10	3/C	1	HSC006-400CP	HSC006-400LCP	PHSC006B-400, PT-16, PHSC006Q-400	120V-P TO LOCAL CP

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
HSC	006	400	I-HSC006-400LCP	ETHERNET	ETHERNET	1	HSC006-400CP	HSC006-400LCP	IHSC006F-400	ANALOG TO LOCAL CP
HSC	006	400	P-HSC006C-400	#12	3/C	1	HSC006-400CP	BCP006-400	PHSC006B-400, PT-16, PHSC006D	120V-P FROM POWER PANEL
HSC	006	400	I-HSC006C-400	#16	2/C T.S.	3	HSC006-400CP	DPU-P1AD	IHSC006C-400, I4106-400, I4107-400, IP2AD-400	ANALOG TO DPU
HSC	006	400	C-HSC006A-400	#16	19/C	2	HSC006-400CP	DPU-P2AD	CHSC006A-400, CT-1, CP2AD-400	DIGITAL TO DPU
HSC	006	400	I-HSC006B-400	ETHERNET	ETHERNET	1	HSC006-400CP	DPU-P1EH	IHSC006B-400, I4109-400, I4110, IP1EH-400	ETHERNET TO DPU
HSC	006	400	C-HSC006B-400	#14	12/C	1	HSC006-400IP	DPU-P2AD	CHSC006E-400, CT-3, CP2AD-400	DIGITAL IP TO DPU
HSC	006	400	I-HSC006D-400	#16	2/C T.S.	4	HSC006-400IP	DPU-P1AD	IHSC006D-400, I4118-400, I4119-400, IP1AD-400	ANALOG IP TO DPU
HSC	006	400	I-HSC006E-400	ETHERNET	ETHERNET	1	HSC006-400IP	DPU-P1EH	IHSC006E-400, I4124-400, I4125-400, IP1EH-400	ETHERNET IP TO DPU
HSC	007	400	P-HSC007-400CP	350&G	3C&G	1	USS015-400	HSC007-400CP	PHSC007L-400, PT-10, PHSC007A-400	
HSC	007	400	P-HSC007A-400	3/0&G	3C&G	1	HSC007-400CP	HSC007-400MO	PHSC007C-400, PT-1, PHSC007G-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	007	400	P-HSC007B-400	#1&G	3C&G	1	HSC007-400CP	HSC007-400MOB	PHSC007E-400, PT-1, PHSC007J-400	VFD SHIELDED CABLE, 2000V CABLE
HSC	007	400	C-HSC007-400MO	#16	3/C SHLD	1	HSC007-400CP	HSC007-400MO	CHSC007BM-400	24V-C TO BOWL MOTOR
HSC	007	400	C-HSC007-400X6JB	#14	5/C	1	HSC007-400CP	HSC007-400X6JB	CHSC007B-400, CT-3, CHSC007X6-400	120V-C TO X6JB
HSC	007	400	C-HSC007-400X47JB	#14	9/C	1	HSC007-400CP	HSC007-400X47JB	CHSC007B-400, CT-3, CHSC007X47-400	120V-C TO X47JB
HSC	007	400	C-HSC007-400X48JB	#14	5/C	1	HSC007-400CP	HSC007-400X48JB	CHSC007B-400, CT-3, CHSC007X48-400	120V-C TO X48JB
HSC	007	400	C-HSC007-400BLV059	#14	3/C	1	HSC007-400CP	HSC007-400BLV059	CHSC007B-400, CT-3, CHSC007CFW-400, CHSC007CFWB-400	120V-C TO BALL VALVE
HSC	007	400	C-HSC007-400FWFS	#14	3/C	1	HSC007-400CP	HSC007-400FWFS	CHSC007B-400, CT-3, CHSC007CFW-400, CHSC007CFWA-400	120V-C TO FLOW SWITCH
HSC	007	400	P-HSC007-400BLV059	#12	3/C	1	HSC007-400CP	HSC007-400BLV059	PHSC007B-400, PT-16, PHSC007CFW-400	120V-P TO BALL VALVE
HSC	007	400	I-HSC007-400IJB	#16	2/C T.S.	2	HSC007-400CP	HSC007-400IJB	IHSC007A-400	ANALOG MCP TO IJB
HSC	007	400	I-HSC007-400IJB	#16	3/C T.S.	9	HSC007-400CP	HSC007-400IJB	IHSC007A-400	ANALOG MCP TO IJB
HSC	007	400	I-HSC007-400X11JB	#16	3/C T.S.	2	HSC007-400IJB	HSC007-400X11JB	IHSC007X11-400	ANALOG TO X11 JB
HSC	007	400	I-HSC007-400X47JBA	#16	2/C T.S.	2	HSC007-400IJB	HSC007-400X47JB	IHSC007X47-400	ANALOG TO X47 JB
HSC	007	400	I-HSC007-400X47JBB	#16	3/C T.S.	2	HSC007-400IJB	HSC007-400X47JB	IHSC007X47-400	ANALOG TO X47 JB
HSC	007	400	I-HSC007-400X10JB	#16	3/C T.S.	2	HSC007-400IJB	HSC007-400X10JB	IHSC007X10-400	ANALOG TO X10 JB
HSC	007	400	I-HSC007-400X60JB	#16	3/C T.S.	3	HSC007-400IJB	HSC007-400X60JB	IHSC007X60-400	ANALOG TO X60 JB
HSC	007	400	I-HSC007-400X20JB	#16	3/C T.S.	2	HSC007-400LCP	HSC007-400X20JB	IHSC007X20-400	ANALOG TO X20 JB
HSC	007	400	C-HSC007-400LCP	#14	19/C	1	HSC007-400CP	HSC007-400LCP	CHSC007B-400, CT-3, CHSC007D-400	120V-C TO LOCAL CP
HSC	007	400	P-HSC007-400LCP	#10	3/C	1	HSC007-400CP	HSC007-400LCP	PHSC007B-400, PT-16, PHSC007Q-400	120V-P TO LOCAL CP
HSC	007	400	I-HSC007-400LCP	ETHERNET	ETHERNET	1	HSC007-400CP	HSC007-400LCP	IHSC007F-400	ANALOG TO LOCAL CP
HSC	007	400	P-HSC007C-400	#12	3/C	1	HSC007-400CP	BCP007-400	PHSC007B-400, PT-16, PHSC007D	120V-P FROM POWER PANEL
HSC	007	400	I-HSC007C-400	#16	2/C T.S.	3	HSC007-400CP	DPU-P1AD	IHSC007C-400, I4106-400, I4107-400, IP2AD-400	ANALOG TO DPU
HSC	007	400	C-HSC007A-400	#16	19/C	2	HSC007-400CP	DPU-P2AD	CHSC007A-400, CT-1, CP2AD-400	DIGITAL TO DPU
HSC	007	400	I-HSC007B-400	ETHERNET	ETHERNET	1	HSC007-400CP	DPU-P1EH	IHSC007B-400, I4112-400, I4113-400, IP1EH-400	ETHERNET TO DPU
HSC	007	400	C-HSC007B-400	#14	12/C	1	HSC007-400IP	DPU-P2AD	CHSC007E-400, CT-3, CP2AD-400	DIGITAL IP TO DPU
HSC	007	400	I-HSC007D-400	#16	2/C T.S.	4	HSC007-400IP	DPU-P1AD	IHSC007D-400, I4119-400, IP1AD-400	ANALOG IP TO DPU
HSC	007	400	I-HSC007E-400	ETHERNET	ETHERNET	1	HSC007-400IP	DPU-P1EH	IHSC007E-400, I4125-400, IP1EH-400	ETHERNET IP TO DPU
MCC	040	400	C-MCC040-400	#14	25/C	1	MCC040-400	DPU	CMCC040-400	
MCC	041	400	C-MCC041-400	#14	25/C	1	MCC041-400	DPU	CMCC041-400	
MCC	044	400	P-MCC044-400	#4	4/C & GND	1	MCC044-400	XFMR-CR2	PMCC044A-400	
MCC	044	400	P-PCR2-400	#1	4/C & GND	1	XFMR-CR2	LPCR2-400	PCR2-400	
MCC	040	400	P-MCC040-400	#4	4/C & GND	1	MCC040-400	XFMR-IPP002	PMCC040A-400	
MCC	040	400	P-IPP002-400	#1	4/C & GND	1	XFMR-IPP002	IPP002-400	PIPP002-400	
PFP	011	400	P-PFP011-400AF	#12	4/C	1	MCC045-400A	PFP011-400AF	PPFP011B-400AF, PT-5, PT-7, PPFP011A-400AF	polymer feed pump 11
PFP	011	400	P-PFP011-400	#12	3/C w/ SHLD	1	PFP011-400AF	PFP011-400MO	PPFP011-400, PPFP011A-400	VFD SHIELDED CABLE
PFP	011	400	C-PFP011-400CS2	#14	1/C	4	PFP011-400AF	PFP011-400CS2	CPFP011-400, CPFP011B-400, CPFP011C-400	E-STOP
PFP	011	400	C-PFP011-400PSH	#14	1/C	4	PFP011-400AF	PFP011-400PSH	CPFP011-400, CPFP011B-400, CPFP011D-400, CPFP011E-400	PRESSURE SWITCH HIGH
PFP	011	400	C-PFP011-400PSL	#14	1/C	4	PFP011-400AF	PFP011-400PSL	CPFP011-400, CPFP011B-400, CPFP011D-400, CPFP011F-400	PRESSURE SWITCH LOW
PFP	011	400	C-PFP011-400TS	#14	1/C	2	PFP011-400AF	PFP011-400TS	CPFP011-400, CPFP011A-400	MOTOR TEMP SWITCH
PFP	011	400	I-PFP011-400AF	#16	2/C T.S.	2	DPU-P1AD	PFP011-400AF	I4090-400, I4097-400, I4098-400, I4099-400, I4100-400, I4101-400, I4102-400, IP1AD-400	
PFP	011	400	C-PFP011A-400AF	#16	3/C	1	DPU-P2AD	PFP011-400AF	CP2AD-400, CT-1, CT-2, CT-8, CT-10, CPFP011A-400AF	
PFP	011	400	C-PFP011B-400AF	#14	19/C	1	DPU-P1EH	PFP011-400AF	CP1EH-400, CT-1, CT-2, CT-8, CT-10, CPFP011A-400AF	polymer feed pump 11
PFP	011	400	I-PFP011-400	#16	Tw Sh PR	1	IPFP011-400AF	TACHOMETER	IPFP011-400	polymer feed pump 11
PFP	012	400	P-PFP012-400AF	#12	4/C	1	MCC045-400B	PFP012-400AF	PPFP012B-400AF, PT-5, PT-7, PPFP012A-400AF	
PFP	012	400	P-PFP012-400	#12	3/C w/ SHLD	1	PFP012-400AF	PFP012-400MO	PPFP012-400, PPFP012A-400	VFD SHIELDED CABLE
PFP	012	400	C-PFP012-400CS2	#14	1/C	4	PFP012-400AF	PFP012-400CS2	CPFP012-400, CPFP012B-400, CPFP012C-400	polymer feed pump 12

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
PFP	012	400	C-PFP012-400PSH	#14	1/C	4	PFP012-400AF	PFP012-400PSH	CPFP012-400, CPFP012B-400, CPFP012D-400, CPFP012E-400	polymer feed pump 12
PFP	012	400	C-PFP012-400PSL	#14	1/C	4	PFP012-400AF	PFP012-400PSL	CPFP012-400, CPFP012B-400, CPFP012D-400, CPFP012F-400	polymer feed pump 12
PFP	012	400	C-PFP012-400TS	#14	1/C	2	PFP012-400AF	PFP012-400TS	CPFP012-400, CPFP012A-400	polymer feed pump 12
PFP	012	400	I-PFP012A-400AF	#16	2/C T.S.	2	DPU-P1EH	PFP012-400AF	I4091-400, I4097-400, I4098-400, I4099-400, I4100-400, I4101-400, I4102-400, IP1EH-400	
PFP	012	400	I-PFP012B-400AF	#16	2/C T.S.	2	DPU-P1AD	PFP012-400AF	I4091-400, I4097-400, I4098-400, I4099-400, I4100-400, I4101-400, I4102-400, IP1AD-400	
PFP	012	400	C-PFP012A-400AF	#14	3/C	1	DPU-P2AD	PFP012-400AF	CP2AD-400, CT-1, CT-2, CT-8, CT-10, CPFP012A-400AF	
PFP	012	400	C-PFP012B-400AF	#14	19/C	1	DPU-P1EH	PFP012-400AF	CP1EH-400, CT-1, CT-2, CT-8, CT-10, CPFP012A-400AF	polymer feed pump 12
PFP	012	400	I-PFP012-400	#16	Tw Sh PR	1	PFP012-400AF	TACHOMETER	IPFP012-400	polymer feed pump 12
PFP	013	400	P-PFP013-400AF	#12	4/C	1	MCC045-400A	PFP013-400AF	PPFP013B-400AF, PT-5, PT-7, PPFP013A-400AF	
PFP	013	400	P-PFP013-400	#12	3/C w/ SHLD	1	PFP013-400AF	PFP013-400MO	PPFP013-400, PPFP013A-400	VFD SHIELDED CABLE
PFP	013	400	C-PFP013-400CS2	#14	1/C	4	PFP013-400AF	PFP013-400CS2	CPFP013-400, CPFP013B-400, CPFP013C-400	polymer feed pump 13
PFP	013	400	C-PFP013-400PSH	#14	1/C	4	PFP013-400AF	PFP013-400PSH	CPFP013-400, CPFP013B-400, CPFP013D-400, CPFP013E-400	polymer feed pump 13
PFP	013	400	C-PFP013-400PSL	#14	1/C	4	PFP013-400AF	PFP013-400PSL	CPFP013-400, CPFP013B-400, CPFP013D-400, CPFP013F-400	polymer feed pump 13
PFP	013	400	C-PFP013-400TS	#14	1/C	2	PFP013-400AF	PFP013-400TS	CPFP013-400, CPFP013A-400	polymer feed pump 13
PFP	013	400	I-PFP013-400AF	#16	2/C T.S.	2	DPU-P1EH	PFP013-400AF	I4092-400, I4098-400, I4099-400, I4100-400, I4101-400, I4102-400, IP1EH-400	
PFP	013	400	C-PFP013A-400AF	#14	3/C	1	DPU-P2EH	PFP013-400AF	CP2EH-400,CT-1, CT-2, CT-8, CT-10, CPFP013A-400AF	
PFP	013	400	C-PFP013B-400AF	#14	19/C	1	DPU-P1EH	PFP013-400AF	CPFP-400AF,CT-1, CT-2, CT-8, CT-10, CPFP013A-400AF	polymer feed pump 13
PFP	013	400	I-PFP013-400	#16	Tw Sh PR	1	PFP013-400AF	TACHOMETER	IPFP013-400	polymer feed pump 13
PFP	014	400	P-PFP014-400AF	#12	4/C	1	MCC045-400A	PFP014-400AF	PPFP014B-400AF, PT-5, PT-7, PPFP014A-400AF	
PFP	014	400	P-PFP014-400	#12	3/C w/ SHLD	1	PFP014-400AF	PFP014-400MO	PPFP014-400, PPFP014A-400	VFD SHIELDED CABLE
PFP	014	400	C-PFP014-400CS2	#14	1/C	4	PFP014-400AF	PFP014-400CS2	CPFP014-400, CPFP014B-400, CPFP014C-400	polymer feed pump 14
PFP	014	400	C-PFP014-400PSH	#14	1/C	4	PFP014-400AF	PFP014-400PSH	CPFP014-400, CPFP014B-400, CPFP014D-400, CPFP014E-400	polymer feed pump 14
PFP	014	400	C-PFP014-400PSL	#14	1/C	4	PFP014-400AF	PFP014-400PSL	CPFP014-400, CPFP014B-400, CPFP014D-400, CPFP014F-400	polymer feed pump 14
PFP	014	400	C-PFP014-400TS	#14	1/C	2	PFP014-400AF	PFP014-400TS	CPFP014-400, CPFP014A-400	polymer feed pump 14
PFP	014	400	I-PFP014-400AF	#16	2/C T.S.	3	DPU-P1EH	PFP014-400AF	I4093-400, I4099-400, I4100-400, I4101-400, I4102-400, IP1EH-400	
PFP	014	400	C-PFP014A-400AF	#14	3/C	1	DPU-P2AD	PFP014-400AF	CP2AD-400, CT-1, CT-2, CT-8, CT-10, CPFP014A-400AF	
PFP	014	400	C-PFP014B-400AF	#14	25/C	1	DPU-P1EH	PFP014-400AF	CP1EH-400, CT-1, CT-2, CT-8, CT-10, CPFP014A-400AF	polymer feed pump 14
PFP	014	400	I-PFP014-400	#16	Tw Sh PR	1	PFP014-400AF	TACHOMETER	IPFP014-400	polymer feed pump 14
PFP	015	400	P-PFP015-400AF	#12	3/C w/ SHLD	1	MCC045-400A	PFP015-400AF	PPFP015B-400AF, PT-5, PT-7, PPFP015A-400AF	
PFP	015	400	P-PFP015-400	#12	1/C	4	PFP015-400AF	PFP015-400MO	PPFP015-400, PPFP015A-400	VFD SHIELDED CABLE
PFP	015	400	C-PFP015-400CS2	#14	1/C	4	PFP015-400AF	PFP015-400CS2	CPFP015-400, CPFP015B-400, CPFP015C-400	polymer feed pump 15
PFP	015	400	C-PFP015-400PSH	#14	1/C	4	PFP015-400AF	PFP015-400PSH	CPFP015-400, CPFP015B-400, CPFP015D-400, CPFP015E-400	polymer feed pump 15
PFP	015	400	C-PFP015-400PSL	#14	1/C	4	PFP015-400AF	PFP015-400PSL	CPFP015-400, CPFP015B-400, CPFP015D-400, CPFP015F-400	polymer feed pump 15
PFP	015	400	C-PFP015-400TS	#14	1/C	2	PFP015-400AF	PFP015-400TS	CPFP015-400, CPFP015A-400	polymer feed pump 15
PFP	015	400	I-PFP015-400AF	#16	2/C T.S.	2	DPU-P1EH	PFP015-400AF	I4094-400, I4100-400, I4101-400, I4102-400, IP1EH-400	
PFP	015	400	C-PFP015A-400AF	#14	3/C	1	DPU-P2AD	PFP015-400AF	CP2AD-400, CT-1, CT-2, CT-8, CT-10, CPFP015A-400AF	
PFP	015	400	C-PFP015B-400AF	#14	25/C	1	DPU-P2EH	PFP015-400AF	CP2EH-400AF, CT-1, CT-2, CT-8, CT-10, CPFP015A-400AF	polymer feed pump 15
PFP	015	400	I-PFP015-400	#16	Tw Sh PR	1	PFP015-400AF	TACHOMETER	IPFP015-400	polymer feed pump 15
PFP	016	400	P-PFP016-400AF	#12	3/C w/ SHLD	1	MCC045-400B	PFP016-400AF	PPFP016B-400AF, PT-5, PT-7, PPFP016A-400AF	
PFP	016	400	P-PFP016-400	#12	1/C	4	PFP016-400AF	PFP016-400MO	PPFP016-400, PPFP016A-400	VFD SHIELDED CABLE
PFP	016	400	C-PFP016-400CS2	#14	1/C	4	PFP016-400AF	PFP016-400CS2	CPFP016-400, CPFP016B-400, CPFP016C-400	polymer feed pump 16
PFP	016	400	C-PFP016-400PSH	#14	1/C	4	PFP016-400AF	PFP016-400PSH	CPFP016-400, CPFP016B-400, CPFP016D-400, CPFP016E-400	polymer feed pump 16
PFP	016	400	C-PFP016-400PSL	#14	1/C	4	PFP016-400AF	PFP016-400PSL	CPFP016-400, CPFP016B-400, CPFP016D-400, CPFP016F-400	polymer feed pump 16
PFP	016	400	C-PFP016-400TS	#14	1/C	2	PFP016-400AF	PFP016-400TS	CPFP016-400, CPFP016A-400	polymer feed pump 16
PFP	016	400	I-PFP016-400AF	#16	2/C T.S.	3	DPU-P1EH	PFP016-400AF	I4095-400, I4101-400, I4102-400, IP1EH-400	
PFP	016	400	C-PFP016A-400AF	#14	3/C	1	DPU-P2AD	PFP016-400AF	CP2AD-400, CT-1, CT-2, CT-8, CT-10, CPFP016A-400AF	
PFP	016	400	C-PFP016B-400AF	#14	19/C	1	DPU-P2EH	PFP016-400AF	CP2EH-400, CT-1, CT-2, CT-8, CT-10, CPFP016A-400AF	polymer feed pump 16
PFP	016	400	I-PFP016-400	#16	Tw Sh PR	1	PFP016-400AF	TACHOMETER	IPFP016-400	polymer feed pump 16
PFP	017	400	P-PFP017-400AF	#12	3/C w/ SHLD	1	MCC046-400A	PFP017-400AF	PPFP017B-400AF, PT-5, PT-7, PPFP013A-400AF	
PFP	017	400	P-PFP017-400	#12	1/C	4	PFP017-400AF	PFP017-400MO	PPFP017-400, PPFP017A-400	VFD SHIELDED CABLE
PFP	017	400	C-PFP017-400CS2	#14	1/C	4	PFP017-400AF	PFP017-400CS2	CPFP017-400, CPFP017B-400, CPFP017C-400	polymer feed pump 17
PFP	017	400	C-PFP017-400PSH	#14	1/C	4	PFP017-400AF	PFP017-400PSH	CPFP017-400, CPFP017B-400, CPFP017D-400, CPFP017E-400	polymer feed pump 17
PFP	017	400	C-PFP017-400PSL	#14	1/C	4	PFP017-400AF	PFP017-400PSL	CPFP017-400, CPFP017B-400, CPFP017D-400, CPFP017F-400	polymer feed pump 17
PFP	017	400	C-PFP017-400TS	#14	1/C	2	PFP017-400AF	PFP017-400TS	CPFP017-400, CPFP017A-400	polymer feed pump 17
PFP	017	400	I-PFP017-400AF	#16	2/C T.S.	2	DPU-P1EH	PFP017-400AF	I4096-400, I4102-400, IP1EH-400	

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
PFP	017	400	C-PFP017B-400AF	#14	25/C	1	DPU-P2EH	PFP017-400AF	CP2EH-400, CT-1, CT-2, CT-8, CT-10, CPFP017A-400AF	polymer feed pump 17
PFP	017	400	I-PFP017-400	#16	Tw Sh PR	1	PFP017-400AF	TACHOMETER	IPFP017-400	polymer feed pump 17
PLM	011	400	P-PLM011-400	#12	1/C	4	PLM011-400MO	MCC-046-400A	PPLM011-400	
PLM	011	400	C-PLM011CS2	#14	1/C	4	PLM011-400CS2	MCC046-400A	CPLM011A-400, CPLM011-400	
PLM	011	400	C-PLM011CS1	#14	1/C	8	PLM011-400CS1	MCC046-400A	CPLM011B-400, CPLM011-400	
PLM	012	400	P-PLM012-400	#12	1/C	4	PLM012-400MO	MCC-046-400B	PPLM012-400	
PLM	012	400	C-PLM012CS2	#14	1/C	4	PLM012-400CS2	MCC046-400B	CPLM012A-400, CPLM012-400	
PLM	012	400	C-PLM012CS1	#14	1/C	8	PLM012-400CS1	MCC046-400B	CPLM012B-400, CPLM012-400	
PMP	021	400	P-PBV083-400CP	#12	3/C	1	BCP001-400	PBV083-400	P4015	
PMP	021	400	P-PBV081-400CP	#12	3/C	1	BCP001-400	PBV081-400	P4016	
PMP	021	400	P-PBV085-400CP	#12	3/C	1	BCP001-400	PBV085-400	P4017	
PMP	022	400	P-PBV082-400CP	#12	3/C	1	BCP001-400	PBV082-400	P4018	
PMP	022	400	P-PBV084-400CP	#12	3/C	1	BCP001-400	PBV084-400	P4019	
PMP	021	400	C-PBV083-400CP	#14	1/C	15	DPU-P2AD	PBV083-400	CPBV083-400, CPBV-400	
PMP	021	400	C-PBV081-400CP	#14	1/C	15	DPU-P2AD	PBV081-400	CPBV081-400, CPBV-400	
PMP	021	400	C-PBV085-400CP	#14	1/C	15	DPU-P2AD	PBV085-400	CPBV085-400, CPBV-400	
PMP	022	400	C-PBV082-400CP	#14	1/C	15	DPU-P2AD	PBV082-400	CPBV082-400, CPBV-400	
PMP	022	400	C-PBV084-400CP	#14	1/C	15	DPU-P2AD	PBV084-400	CPBV084-400, CPBV-400	
PMT	011	400	C-PBV171A-400CP	#14	1/C	9	DPU-P1EH	PBV171-400CP	C015B-400, C015-400, C027-400, C026-400, CP1EH-400	
PMT	011	400	C-PBV171B-400CP	#14	1/C	5	DPU-P2EH	PBV171-400CP	C015B-400, C015-400, C027-400, C026-400, CP2EH-400	
PMT	011	400	C-PBV168-400CP	#14	1/C	12	DPU-P2EH	PBV168-400CP	C015A-400, C015-400, C027-400, C026-400, CP2EH-400	
PMT	011	400	C-PBV171-400ZSO	#14	1/C	2	PBV171-400CP	PBV171-400ZSO	CPBV171B-400	
PMT	011	400	C-PBV171-400ZSC	#14	1/C	2	PBV171-400CP	PBV171-400ZSC	CPBV171A-400	
PMT	011	400	P-PBV168-400	#12	1/C	3	PBV168-400MO	BCP001-400	P001C-400, PBV168-400CP, P001B-400, P001-400, P009-400	
PMT	011	400	P-PBV171-400	#12	1/C	3	PBV171-400MO	BCP001-400	P001D-400, PBV171-400CP, P001A-400, P001-400, P009-400	
PMT	011	400	C-PBV168-400ZSO	#14	1/C	2	PBV168-400CP	PBV168-400ZSO	CPBV168B-400	
PMT	011	400	C-PBV168-400ZSC	#14	1/C	2	PBV168-400CP	PBV168-400ZSC	CPBV168A-400	
PMT	011	400	C-L400PMT011ALS	#14	1/C	2	L400PMT011ALS	DPU-P2EH	C015C-400, C015-400, C027-400,C026-400, CP2EH-400	
PMT	011	400	P-400PMT011LIT	#12	1/C	3	L400PMT011LIT	IPP001-400	P500-400, P526-400, P525-400	
PMT	011	400	I-L400PMT011LIT	#16	2/C	1	L400PMT011LIT	DPU-P1AD	I001-400, I022-400, I021-400, CP1AD-400	
PMT	012	400	P-PBV176-400	#12	1/C	3	PBV176-400MO	BCP001-400	P002C-400, PBV176-400CP, P002A-400, P002-400, P009-400	
PMT	012	400	P-PBV173-400	#12	1/C	3	PBV173-400MO	BCP001-400	P002D-400, PBV173-400CP, P002A-400, P002-400, P009-400	
PMT	012	400	C-PBV173-400ZSO	#14	1/C	2	PBV173-400CP	PBV173-400ZSO	CPBV173B-400	
PMT	012	400	C-PBV173-400ZSC	#14	1/C	2	PBV173-400CP	PBV173-400ZSC	CPBV173A-400	
PMT	012	400	C-PBV176-400ZSO	#14	1/C	2	PBV176-400CP	PBV176-400ZSO	CPBV176B-400	
PMT	012	400	C-PBV176-400ZSC	#14	1/C	2	PBV176-400CP	PBV176-400ZSC	CPBV176A-400	
PMT	012	400	C-PBV176A-400CP	#14	1/C	9	DPU-P2AD	PBV176-400CP	C016B-400, C016-400, C026-400, CP2AD-400	OUTLET
PMT	012	400	C-PBV176B-400CP	#14	1/C	5	DPU-P2EH	PBV176-400CP	C016B-400, C016-400, C026-400, CP2EH-400	
PMT	012	400	C-PBV173A-400CP	#14	1/C	9	DPU-P1EH	PBV173-400CP	C016A-400, C016-400, C026-400, CP1EH-400	INLET
PMT	012	400	C-PBV173B-400CP	#14	1/C	5	DPU-P2EH	PBV173-400CP	C016A-400, C016-400, C026-400, CP2EH-400	
PMT	012	400	C-L400PMT012ALS	#14	1/C	2	L400PMT012ALS	DPU-P2EH	C016C-400, C016-400,C026-400, CP2EH-400	
PMT	012	400	P-400PMT012LIT	#12	1/C	3	L400PMT012LIT	IPP001-400	P501-400, P526-400, P525-400	
PMT	012	400	I-L400PMT012LIT	#16	2/C	1	L400PMT012LIT	DPU-P1AD	I002-400, I022-400, I021-400, CP1AD-400	
PMT	013	400	C-L400PMT013LS	#14	1/C	2	L400PMT013LS	DPU-P2EH	CPMT013-400, C026-400, CP2EH-400	
PMT	013	400	P-400PMT013LIT	#12	1/C	3	L400PMT013LIT	IPP001-400	PPMT013-400, P525-400	
PMT	013	400	I-L400PMT013LIT	#16	2/C	1	L400PMT013LIT	DPU-P1EH	IPMT013-400, I021-400, CP1AD-400	
PMX	011	400	C-PMX011A-400CP	#14	1/C	9	PMX011-400CP	DPU-P1EH	C046-400, C045-400, CP1EH-400	
PMX	011	400	C-PMX011B-400CP	#14	1/C	3	PMX011-400CP	DPU-P2EH	C046-400, C045-400, CP2EH-400	
PMX	011	400	P-PMX011-400CP	#12	1/C	4	PMX011-400CP	MCC046-400A	PPMX011A-400, PPMX011-400	
PMX	012	400	C-PMX012A-400CP	#14	1/C	9	PMX012-400CP	DPU-P2EH	C047-400, C045-400, CP2EH-400	
PMX	012	400	C-PMX012B-400CP	#14	1/C	3	PMX012-400CP	DPU-P2AD	C047-400, C045-400, CP2AD-400	
PMX	012	400	P-PMX012-400CP	#12	1/C	4	PMX012-400CP	MCC046-400B	PPMX012-400, PPMX011-400	
PPS	001	701	P-PPS001-701AF	#4 & #8	3/C & GND	1	MCC-007A- 2CL	VFD-PPS001-701	P060348, WT01-706, P060366	MCC TO VFD
PPS	001	701	P-060610	#4 & #12	3/C & GND	1	VFD-PPS001-701	PPS001-701	P060367, WT02-706, P060356A, PT02-480VAC, P060600A, PJB005-701, P060610, PJB001-701, P060611	VFD SHIELDED CABLE
PPS	001	701	P-060611	#14	2/C & GND	1	VFD-PPS001-701	PPS001-701CS	C060367, P060356, PT02-480VAC, P060600, PJB005-701, P060610, PJB001-701, P060611	ESTOP

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
PPS	001	701	P-060613	#14	2/C & GND	1	VFD-PPS001-701	PPS001-701FSL	C060367, P060356, PT02-480VAC, P060600, PJB005-701, P060610, PJB001-701, P06061:	FLOW SWITCH
PPS	001	701	P-060614	#12	2/C & GND	1	VFD-PPS001-701	PPS001-701SOV	C060367, P060356, PT02-480VAC, P060600, PJB005-701, P060610, PJB001-701, P060613, P06061:	SOLENOID VALVE
PPS	001	701	C-CSV001-701	#14	2/C	1	VFD-PPS001-701	CSV001-701	C060367, P060356, PT02-480VAC, C060600, PJB005-701, P060610, PJB001-701, CCSV001-70:	CHECK VALVE
PPS	001	701	C-KGV001-701	#14	2/C	1	VFD-PPS001-701	KGV001-701	C060367, P060356, PT02-480VAC, C060600, PJB005-701, P060610, PJB001-701, CKGV001-70:	KNIFE GATE VALVE
PPS	001	701	C-KGV003-701	#14	2/C	1	VFD-PPS001-701	KGV007-701	C060367, P060356, PT02-480VAC, C060600, PJB005-701, P060610, PJB001-701, CKGV007-70:	KNIFE GATE VALVE
PPS	001	701	C-PPS001-701AF	#14	12/C	1	VFD-PPS001-701	DPU-038	C060367A	VFD TO DPU
PPS	002	701	P-PPS002-701AF	#4 & #8	3/C & GND	1	MCC-007A- 2CR	VFD-PPS002-701	P060345, WT01-706, P060360	MCC TO VFD
PPS	002	701	P-060620	#4 & #12	3/C & GND	1	VFD-PPS002-701	PPS002-701	P060364, WT02-706, P060357A, PT01-480VAC, P060600A, PJB005-701, P060620, PJB002-701, P06062:	VFD SHIELDED CABLE
PPS	002	701	P-060621	#12 & #12	1/C & GND	1	VFD-PPS002-701	PPS002-701CS	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, P06062:	ESTOP
PPS	002	701	P-060623	#14	2/C & GND	1	VFD-PPS002-701	PPS002-701FSL	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, P06062:	FLOW SWITCH
PPS	002	701	P-060624	#14	2/C	1	VFD-PPS002-701	PPS002-701SOV	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, P060623, P06062:	SOLENOID VALVE
PPS	002	701	C-CSV002-701	#14	2/C	1	VFD-PPS002-701	CSV002-701	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, CCVS002-701	CHECK VALVE
PPS	002	701	C-KGV002-701	#14	2/C	1	VFD-PPS002-701	KGV002-701	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, CKGV002-701	KNIFE GATE VALVE
PPS	002	701	C-KGV004-701	#14	2/C	1	VFD-PPS002-701	KGV004-701	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, CKGV004-701	KNIFE GATE VALVE
PPS	002	701	C-KGV008-701	#14	2/C	1	VFD-PPS002-701	KGV008-701	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, CKGV008-701	KNIFE GATE VALVE
PPS	002	701	C-PPS002-701AF	#14	12/C	1	VFD-PPS002-701	DPU-038	C060364A	VFD TO DPU
PPS	003	701	P-PPS003-701AF	#4 & #8	3/C & GND	1	MCC-007B- 9BL	VFD-PPS003-701	P060347, WT03-706, P060363	MCC TO VFD
PPS	003	701	P-060630	#4 & #12	3/C & GND	1	VFD-PPS003-701	PPS003-701	P060365, WT04-706, P060358A, PT02-480VAC, P060600A, PJB005-701, P060630, PJB003-701, P06063:	VFD SHIELDED CABLE
PPS	003	701	P-060631	#14	2/C	1	VFD-PPS003-701	PPS003-701CS	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, P06063:	ESTOP
PPS	003	701	P-060633	#14	2/C	1	VFD-PPS003-701	PPS003-701FSL	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, P06063:	FLOW SWITCH
PPS	003	701	P-060634	#14	2/C	1	VFD-PPS003-701	PPS003-701SOV	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, P060633, P06063:	SOLENOID VALVE
PPS	003	701	C-CSV003-701	#14	2/C	1	VFD-PPS003-701	CSV003-701	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, CCSV003-70:	CHECK VALVE
PPS	003	701	C-KGV005-701	#14	2/C	1	VFD-PPS003-701	KGV005-701	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, CKGV005-70:	KNIFE GATE VALVE
PPS	003	701	C-KGV009-701	#14	2/C	1	VFD-PPS003-701	KGV009-701	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, CKGV009-70:	KNIFE GATE VALVE
PPS	003	701	C-PPS003-701AF	#14	12/C	1	VFD-PPS003-701	DPU-038	C060365A	VFD TO DPU
PPS	004	701	C-PPS004-701AF	#14	12/C	1	VFD-PPS004-701	DPU-038	C060361A	VFD TO DPU
PPS	004	701	P-PPS004-701AF	#4 & #8	3/C & GND	1	MCC-007	VFD-PPS004-701	P060346, WT03-706, P060362	MCC TO VFD
PPS	004	701	P-060640	#4 & #12	3/C & GND	1	VFD-PPS004-701	PPS004-701	P060361, WT04-706, P060359A, PT02-480VAC, P060600A, PJB005-701, P060640, PJB004-701, P06064:	VFD SHIELDED CABLE
PPS	004	701	P-060641	#12 & #12	1/C & GND	1	VFD-PPS004-701	PPS004-701CS	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, P06064:	ESTOP
PPS	004	701	P-060643	#14	2/C & GND	1	VFD-PPS004-701	PPS004-701FSL	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, P06064:	FLOW SWITCH
PPS	004	701	P-060644	#14	2/C	1	VFD-PPS004-701	PPS004-701SOV	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, P060643, P06064:	SOLENOID VALVE
PPS	004	701	C-CSV004-701	#14	2/C	1	VFD-PPS004-701	CSV004-701	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, CCSV004-70:	CHECK VALVE
PPS	004	701	C-KGV003-701	#14	2/C	1	VFD-PPS004-701	KGV003-701	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, CKGV003-70:	KNIFE GATE VALVE
PPS	004	701	C-KGV006-701	#14	2/C	1	VFD-PPS004-701	KGV006-701	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, CKGV006-70:	KNIFE GATE VALVE
PPS	004	701	C-KGV010-701	#14	2/C	1	VFD-PPS004-701	KGV010-701	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, CKGV010-70:	KNIFE GATE VALVE
PPS	001	702	P-PPS001-702AF	#4 & #8	3/C & GND	1	MCC-006	VFD-PPS001-702	P060349, WT01-706, P060368	MCC TO VFD
PPS	001	702	P-060510	#4 & #12	3/C & GND	1	VFD-PPS001-702	PPS001-702	P060369, WT02-706, P060355A, PT01-480VAC, P060500A, PJB005-702, P060510, PJB001-702, P06051:	VFD SHIELDED CABLE
PPS	001	702	P-060511	#14	2/C	1	VFD-PPS001-702	PPS001-702CS	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, P06051:	ESTOP
PPS	001	702	P-060513	#14	2/C	1	VFD-PPS001-702	PPS001-702FSL	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, P06051:	FLOW SWITCH
PPS	001	702	P-060514	#14	2/C	1	VFD-PPS001-702	PPS001-702SOV	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, P060513, P06051:	SOLENOID VALVE
PPS	001	702	C-CSV001-702	#14	2/C	1	VFD-PPS001-702	CSV001-702	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, CCSV001-70:	CHECK VALVE
PPS	001	702	C-KGV001-702	#14	2/C	1	VFD-PPS001-702	KGV001-702	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, CKGV001-70:	KNIFE GATE VALVE
PPS	001	702	C-KGV003-702	#14	2/C	1	VFD-PPS001-702	KGV003-702	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, CKGV003-70:	KNIFE GATE VALVE
PPS	001	702	C-KGV005-702	#14	2/C	1	VFD-PPS001-702	KGV005-702	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, CKGV005-70:	KNIFE GATE VALVE
PPS	001	702	C-PPS001-702AF	#14	12/C	1	VFD-PPS001-702	DPU-038	C060369A	VFD TO DPU
PPS	002	702	P-PPS002-702AF	#4 & #8	3/C & GND	1	MCC-006	VFD-PPS002-702	P060350, WT01-706, P060370	MCC TO VFD
PPS	002	702	P-060520	#4 & #12	3/C & GND	1	VFD-PPS002-702	PPS002-702	P060371, WT02-706, P060354A, PT01-480VAC, P060500A, PJB005-702, P060520, PJB002-702, P06052:	VFD SHIELDED CABLE
PPS	002	702	P-060521	#14	2/C	1	VFD-PPS002-702	PPS002-702CS	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, P06052:	ESTOP
PPS	002	702	P-060523	#14	2/C	1	VFD-PPS002-702	PPS002-702FSL	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, P06052:	FLOW SWITCH
PPS	002	702	P-060524	#14	2/C	1	VFD-PPS002-702	PPS002-702SOV	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, P060523, P06052:	SOLENOID VALVE
PPS	002	702	C-CSV002-702	#14	2/C	1	VFD-PPS002-702	CSV002-702	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, CCSV002-70:	CHECK VALVE
PPS	002	702	C-KGV004-702	#14	2/C	1	VFD-PPS002-702	KGV004-702	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, CKGV004-70:	KNIFE GATE VALVE
PPS	002	702	C-KGV006-702	#14	2/C	1	VFD-PPS002-702	KGV006-702	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, CKGV006-70:	KNIFE GATE VALVE
PPS	002	702	C-PPS002-702AF	#14	12/C	1	VFD-PPS002-702	DPU-038	C060371A	VFD TO DPU
PPS	003	702	P-PPS003-702AF	#4 & #8	3/C & GND	1	MCC-006	VFD-PPS003-702	P060351, WT01-706, P060372	MCC TO VFD

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
PPS	003	702	P-060530	#4 & #12	3/C & GND	1	VFD-PPS003-702	PPS003-702	P060373, WT02-706, P060353A, PT01-480VAC, P060500A, PJB005-702, P060530, PJB003-702, P06053:	VFD SHIELDED CABLE
PPS	003	702	P-060531	#14	2/C	1	VFD-PPS003-702	PPS003-702CS	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, P06053:	ESTOP
PPS	003	702	P-060533	#14	2/C	1	VFD-PPS003-702	PPS003-702FSL	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, P06053:	FLOW SWITCH
PPS	003	702	P-060534	#14	2/C	1	VFD-PPS003-702	PPS003-702SOV	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, P060533, P06053:	SOLENOID VALVE
PPS	003	702	C-CSV003-702	#14	2/C	1	VFD-PPS003-702	CSV003-702	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, CCSV003-70:	CHECK VALVE
PPS	003	702	C-KGV002-702	#14	2/C	1	VFD-PPS003-702	KGV002-702	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, CKGV002-70:	KNIFE GATE VALVE
PPS	003	702	C-KGV007-702	#14	2/C	1	VFD-PPS003-702	KGV007-702	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, CKGV007-70:	KNIFE GATE VALVE
PPS	003	702	C-PPS003-702AF	#14	12/C	1	VFD-PPS003-702	DPU-038	C060373A	VFD TO DPU
PPS	001	711	P-PPS001-711AF	#4 & #8	3/C & GND	1	MCC-004	VFD-PPS001-711	P060450, WT01-716, P060459	MCC TO VFD
PPS	001	711	P060710	#4 & #12	3/C & GND	1	VFD-PPS001-711	PPS001-711	P060464, WT02-716, P060466A, PT03-480VAC, P06700A, PJB005-711, P060710, PJB001-711, P06071:	VFD SHIELDED CABLE
PPS	001	711	P060711	#14	2/C	1	VFD-PPS001-711	PPS001-711CS	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, P06071:	ESTOP
PPS	001	711	P-060713	#14	2/C	1	VFD-PPS001-711	PPS001-711FSL	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, P06071:	FLOW SWITCH
PPS	001	711	P-060714	#14	2/C	1	VFD-PPS001-711	PPS001-711SOV	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, P060713, P06071:	SOLENOID VALVE
PPS	001	711	C-CSV001-711	#14	2/C	1	VFD-PPS001-711	CSV001-711	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, CCSV001-71:	CHECK VALVE
PPS	001	711	C-KGV001-711	#14	2/C	1	VFD-PPS001-711	KGV001-711	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, CKGV001-71:	KNIFE GATE VALVE
PPS	001	711	C-KGV007-711	#14	2/C	1	VFD-PPS001-711	KGV007-711	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, CKGV007-71:	KNIFE GATE VALVE
PPS	001	711	C-PPS001-711AF	#14	12/C	1	VFD-PPS001-711	DPU-038	C060464A	VFD TO DPU
PPS	002	711	P-PPS002-711AF	#4 & #8	3/C & GND	1	MCC-004	VFD-PPS002-711	P060451, WT01-716, P060458	MCC TO VFD
PPS	002	711	P060720	#4 & #12	3/C & GND	1	VFD-PPS002-711	PPS002-711	P060463, WT02-716, P060467A, PT03-480VAC, P06700A, PJB005-711, P060720, PJB002-711, P06072:	VFD SHIELDED CABLE
PPS	002	711	P060721	#14	2/C	1	VFD-PPS002-711	PPS002-711CS	C060463, WT02-716, P060467, PT03-480VAC, C06700, PJB005-711, P060720, PJB002-711, P06072:	ESTOP
PPS	002	711	P-060723	#14	2/C	1	VFD-PPS002-711	PPPS002-711FSL	C060463, WT02-716, P060467, PT03-480VAC, C06700, PJB005-711, P060720, PJB002-711, P06072:	FLOW SWITCH
PPS	002	711	P-060724	#14	2/C	1	VFD-PPS002-711	PPS002-711SOV	C060463, WT02-716, P060467, PT03-480VAC, C06700, PJB005-711, P060720, PJB002-711, P060723, P06072:	SOLENOID VALVE
PPS	002	711	C-CSV002-711	#14	2/C	1	VFD-PPS002-711	CSV002-711	C060463, WT02-716, P060467, PT03-480VAC, C06700, PJB005-711, P060720, PJB002-711, CCSV002-71:	CHECK VALVE
PPS	002	711	C-KGV002-711	#14	2/C	1	VFD-PPS002-711	KGV002-711	C060463, WT02-716, P060467, PT03-480VAC, C06700, PJB005-711, P060720, PJB002-711, CKGV002-71:	KNIFE GATE VALVE
PPS	002	711	C-KGV005-711	#14	2/C	1	VFD-PPS002-711	KGV005-711	C060463, WT02-716, P060467, PT03-480VAC, C06700, PJB005-711, P060720, PJB002-711, CKGV005-71:	KNIFE GATE VALVE
PPS	002	711	C-KGV008-711	#14	2/C	1	VFD-PPS002-711	KGV008-711	C060463, WT02-716, P060467, PT03-480VAC, C06700, PJB005-711, P060720, PJB002-711, CKGV008-71:	KNIFE GATE VALVE
PPS	002	711	C-PPS002-711AF	#14	12/C	1	VFD-PPS002-711	DPU-038	C060463A	VFD TO DPU
PPS	003	711	P-PPS003-711AF	#4 & #8	3/C & GND	1	MCC-004	VFD-PPS003-711	P060452, WT01-716, P060457	MCC TO VFD
PPS	003	711	P-060730	#4 & #12	3/C & GND	1	VFD-PPS003-711	PPS003-711	P060462, WT02-716, P060468A, PT03-480VAC, P06700A, PJB005-711, P060730, PJB003-711, P06073:	VFD SHIELDED CABLE
PPS	003	711	P-060731	#14	2/C	1	VFD-PPS003-711	PPS003-711CS	C060462, WT02-716, P060468, PT03-480VAC, P06700, PJB005-711, P060730, PJB003-711, P06073:	ESTOP
PPS	003	711	P-060733	#14	2/C	1	VFD-PPS003-711	PPPS003-711FSL	C060462, WT02-716, P060468, PT03-480VAC, P06700, PJB005-711, P060730, PJB003-711, P06073:	FLOW SWITCH
PPS	003	711	P-060734	#14	2/C	1	VFD-PPS003-711	PPS003-711SOV	C060462, WT02-716, P060468, PT03-480VAC, P06700, PJB005-711, P060730, PJB003-711, P060733, P06073:	SOLENOID VALVE
PPS	003	711	C-CSV003-711	#14	2/C	1	VFD-PPS003-711	CSV003-711	C060462, WT02-716, P060468, PT03-480VAC, P06700, PJB005-711, P060730, PJB003-711, CCSV003-71:	CHECK VALVE
PPS	003	711	C-KGV004-711	#14	2/C	1	VFD-PPS003-711	KGV004-711	C060462, WT02-716, P060468, PT03-480VAC, P06700, PJB005-711, P060730, PJB003-711, CKGV004-71:	KNIFE GATE VALVE
PPS	003	711	C-KGV009-711	#14	2/C	1	VFD-PPS003-711	KGV009-711	C060462, WT02-716, P060468, PT03-480VAC, P06700, PJB005-711, P060730, PJB003-711, CKGV009-71:	KNIFE GATE VALVE
PPS	003	711	C-PPS003-711AF	#14	12/C	1	VFD-PPS003-711	DPU-038	C060462A	VFD TO DPU
PPS	004	711	P-PPS004-711AF	#4 & #8	3/C & GND	1	MCC-004	VFD-PPS004-711	P060453, WT01-716, P060456	MCC TO VFD
PPS	004	711	P060740	#4 & #12	3/C & GND	1	VFD-PPS004-711	PPS004-711	P060461, WT02-716, P060469A, PT03-480VAC, P06700A, PJB005-711, P060740, PJB004-711, P06074:	VFD SHIELDED CABLE
PPS	004	711	P060741	#14	2/C	1	VFD-PPS004-711	PPS004-711CS	C060461, WT02-716, P060469, PT03-480VAC, P06700, PJB005-711, P060740, PJB004-711, P06074:	ESTOP
PPS	004	711	P-060743	#14	2/C	1	VFD-PPS004-711	PPPS004-711FSL	C060461, WT02-716, P060469, PT03-480VAC, P06700, PJB005-711, P060740, PJB004-711, P06074:	FLOW SWITCH
PPS	004	711	P-060744	#14	2/C	1	VFD-PPS004-711	PPS004-711SOV	C060461, WT02-716, P060469, PT03-480VAC, P06700, PJB005-711, P060740, PJB004-711, P060743, P06074:	SOLENOID VALVE
PPS	004	711	C-CSV004-711	#14	2/C	1	VFD-PPS004-711	CSV004-711	C060461, WT02-716, P060469, PT03-480VAC, P06700, PJB005-711, P060740, PJB004-711, CCSV004-71:	CHECK VALVE
PPS	004	711	C-KGV003-711	#14	2/C	1	VFD-PPS004-711	KGV003-711	C060461, WT02-716, P060469, PT03-480VAC, P06700, PJB005-711, P060740, PJB004-711, CKGV003-71:	KNIFE GATE VALVE
PPS	004	711	C-KGV006-711	#14	2/C	1	VFD-PPS004-711	KGV006-711	C060461, WT02-716, P060469, PT03-480VAC, P06700, PJB005-711, P060740, PJB004-711, CKGV006-71:	KNIFE GATE VALVE
PPS	004	711	C-KGV010-711	#14	2/C	1	VFD-PPS004-711	KGV010-711	C060461, WT02-716, P060469, PT03-480VAC, P06700, PJB005-711, P060740, PJB004-711, CKGV010-71:	KNIFE GATE VALVE
PPS	004	711	C-PPS004-711AF	#14	12/C	1	VFD-PPS004-711	DPU-038	C060461A	VFD TO DPU
PPS	001	712	P-PPS001-712AF	#4 & #8	3/C & GND	1	MCC-005	VFD-PPS001-712	P060455, WT03-716, P060465	MCC TO VFD
PPS	001	712	P060810	#4 & #12	3/C & GND	1	VFD-PPS001-712	PPS001-712	P060460, WT02-716, P060470A, PT04-480VAC, P06800A, PJB005-712, P060810, PJB001-712, P06081:	VFD SHIELDED CABLE
PPS	001	712	P060811	#14	2/C	1	VFD-PPS001-712	PPS001-712CS	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, P06081:	ESTOP
PPS	001	712	P-060813	#14	2/C	1	VFD-PPS001-712	PPPS001-712FSL	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, P06081:	FLOW SWITCH
PPS	001	712	P-060814	#14	2/C	1	VFD-PPS001-712	PPS001-712SOV	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, P060813, P06081:	SOLENOID VALVE
PPS	001	712	C-CSV001-712	#14	2/C	1	VFD-PPS001-712	CSV001-712	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, CCSV001-71:	CHECK VALVE
PPS	001	712	C-KGV001-712	#14	2/C	1	VFD-PPS001-712	KGV001-712	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, CKGV001-71:	KNIFE GATE VALVE
PPS	001	712	C-KGV007-712	#14	2/C	1	VFD-PPS001-712	KGV003-712	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, CKGV003-71:	KNIFE GATE VALVE
PPS	001	712	C-PPS001-711AF	#14	12/C	1	VFD-PPS001-712	DPU-038	C060460A	VFD TO DPU

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
PPS	002	712	P-PPS002-712AF	#4 & #8	3/C & GND	1	MCC-005	VFD-PPS002-712	P060454, WT03-716, P060449	MCC TO VFD
PPS	002	712	P060820	#4 & #12	3/C & GND	1	VFD-PPS002-712	PPS002-712	P060471, WT02-716, P060472A, PT04-480VAC, P06800A, PJB005-712, P060820, PJB002-712, P060821	VFD SHIELDED CABLE
PPS	002	712	P060821	#14	2/C	1	VFD-PPS002-712	PPS002-712CS	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, P060821	ESTOP
PPS	002	712	P-060823	#14	2/C	1	VFD-PPS002-712	PPPS002-712FSL	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, P060821	FLOW SWITCH
PPS	002	712	P-060824	#14	2/C	1	VFD-PPS002-712	PPS002-712SOV	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, P060823, P060824	SOLENOID VALVE
PPS	002	712	C-CSV002-712	#14	2/C	1	VFD-PPS002-712	CSV002-712	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, CCSV002-711	CHECK VALVE
PPS	002	712	C-KGV002-712	#14	2/C	1	VFD-PPS002-712	KGV002-712	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, CKGV002-711	KNIFE GATE VALVE
PPS	002	712	C-KGV004-712	#14	2/C	1	VFD-PPS002-712	KGV004-712	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, CKGV004-711	KNIFE GATE VALVE
PPS	002	712	C-PPS001-711AF	#14	12/C	1	VFD-PPS002-712	DPU-038	C060471A	VFD TO DPU
PTF	001	400	C-PTF001-400ZSO	#14	1/C	2	MCC045-400B	PTF001-400ZSO	CPTF001-400, CPTF001D-400	
PTF	001	400	P-PTF001-400	#10	1/C	4	MCC045-400B	PTF001-400MO	PPTF001-400, PPTF001A-400	Thickening Feed Tank Drain Pump
PTF	001	400	C-PTF001-400CS1	#14	12/C	1	MCC045-400B	PTF001-400CS1	CPTF001-400, CPTF001B-400	
PTF	001	400	C-PTF001-400CS2	#14	3/C	1	MCC045-400B	PTF001-400CS2	CPTF001-400,CPTF001C-400	
PTF	001	400	C-PTF001-400HTR	#14	1/C	2	MCC045-400B	PTF001-400HTR	CPTF001-400, CPTF001A-400	
PTF	001	400	C-PTF001-400	#14	19/C	2	DPU-P2EH	MCC045-400B	CMCC045-400B, CT-8, CT-1A, CP2EH-400	
PTF	001	400	C-PTF001A-400	#14	12/C	1	MCC045-400B	DPU-P2EH	CMCC045B-400, CT-1A, CP2EH-400	
PTS	001	400	I-PTS001-400AF	#16	2/C - T.S	2	PTS001-400AF	DPU-P1AD	I4024-400, I4028-400, I4029-400, I4030-400	
PTS	001	400	C-PTS001A-400AF	#14	3/C	1	PTS001-400AF	DPU-P2AD	CPTS001A-400, CT-2, CPTS-400	
PTS	001	400	C-PTS001B-400AF	#14	19/C	1	PTS001-400AF	DPU-P2EH	CPTS001A-400, CT-2, CPTS-400	
PTS	001	400	C-PTS001-400PSH	#14	2/C	1	PTS001-400CJB	PTS001-400PSH	CPTS001C-400, CPTS001E-400	Thickened Sludge Pump No. 1 Discharge High Pressure Switch
PTS	001	400	C-PTS001-400PSL	#14	2/C	1	PTS001-400CJB	PTS001-400PSL	CPTS001-400, CPTS001B-400	Thickened Sludge Pump No. 1 Suction Low Pressure Switch
PTS	001	400	P-PTS001-400	#8	4/C	1	PTS001-400AF	PTS001-400MO	PPTS001A-400AF, PT-15, PT-14, PT-19, PPTS001-400, PPTS001A-400	thickened sludge pump 1
PTS	001	400	C-PTS001-400	#14	12/C	1	PTS001-400AF	PTS001-400CJB	CPTS001A-400, CT-2, CT-6, CPTS001-400	
PTS	001	400	C-PTS001-400CS2	#14	1/C	4	PTS001-400CJB	PTS001-400CS2	CPTS001C-400, CPTS001D-400	
PTS	001	400	P-PTS001-400AF	#8	4/C	1	PTS001-400AF	MCC045-400A	PPTS001A-400AF, PT-15, PPTS001B-400AF	
PTS	001	400	P-PTS001-400FIT	#12	3/C	1	F400PTS001	IPP001-400	P4040-400,P4046-400, P4042-400, P4043-400, P4045-40C	FIT POWER
PTS	001	400	I-PTS001-400FIT	#16	2/C T.S.	1	F400PTS001	DPU-P1EH	I4040-400, I4046-400, I4042-400, I4043, I4045-40C	FIT ANALOG
PTS	002	400	I-PTS002-400AF	#16	2/C - T.S	2	PTS002-400AF	DPU-P1EH	I4025-400, I4028-400, I4029-400, I4030-40C	
PTS	002	400	I-PTS002-400AF	#16	2/C - T.S	2	PTS002-400AF	DPU-P1AD	I4025-400, I4028-400, I4029-400, I4030-40C	
PTS	002	400	C-PTS002A-400AF	#14	3/C	1	PTS002-400AF	DPU-P2AD	CPTS002A-400, CT-2, CPTS-400	
PTS	002	400	C-PTS002B-400AF	#14	19/C	1	PTS002-400AF	DPU-P1EH	CPTS002A-400, CT-2, CPTS-400	
PTS	002	400	C-PTS002-400PSH	#14	2/C	1	PTS002-400CJB	PTS002-400PSH	CPTS002C-400, CPTS002E-400	Thickened Sludge Pump No. 2 Discharge High Pressure Switch
PTS	002	400	C-PTS002-400PSL	#14	2/C	1	PTS002-400CJB	PTS002-400PSL	CPTS002-400, CPTS002B-400	Thickened Sludge Pump No. 2 Suction Low Pressure Switch
PTS	002	400	P-PTS002-400	#8	4/C	1	PTS002-400AF	PTS002-400MO	PPTS002A-400AF, PT-15, PT-14, PT-19, PPTS002-400, PPTS002A-40C	thickened sludge pump 2
PTS	002	400	C-PTS002-400	#14	12/C	1	PTS002-400AF	PTS002-400CJB	CPTS002A-400,CT-2, CT-6, CPTS-400	
PTS	002	400	C-PTS002-400CS2	#14	1/C	4	PTS002-400CJB	PTS002-400CS2	CPTS002C-400, CPTS002D-400	
PTS	002	400	P-PTS002-400AF	#8	4/C	1	PTS002-400AF	MCC045-400B	PPTS002A-400AF, PT-15, PPTS002B-400AF	
PTS	002	400	P-PTS002-400FIT	#12	3/C	1	F400PTS002	IPP001-400	P4041-400, P4046-400, P4042-400, P4043-400, P4045-40C	FIT POWER
PTS	002	400	I-PTS002-400FIT	#16	2/C T.S.	1	F400PTS002	DPU-P1EH	I4041-400, I4046-400, I4042-400, I4043, I4045-40C	FIT ANALOG
PTS	003	400	I-PTS003-400AF	#16	2/C - T.S	2	PTS003-400AF	DPU-P1EH	I4026-400, I4029-400, I4030-40C	
PTS	003	400	C-PTS003B-400AF	#14	19/C	1	PTS003-400AF	DPU-P2EH	CPTS003A-400,CT-2, CT-6, CPTS-400	
PTS	003	400	C-PTS003-400PSH	#14	2/C	1	PTS003-400CJB	PTS003-400PSH	CPTS003C-400, CPTS003E-400	Thickened Sludge Pump No. 3 Discharge High Pressure Switch
PTS	003	400	C-PTS003-400PSL	#14	2/C	1	PTS003-400CJB	PTS003-400PSL	CPTS003-400, CPTS003B-400	Thickened Sludge Pump No. 3 Suction Low Pressure Switch
PTS	003	400	P-PTS003-400	#8	4/C	1	PTS003-400AF	PTS003-400MO	PPTS003A-400AF, PT-15, PT-14 PT-19, PPTS003-400, PPTS003A-40C	thickened sludge pump 3
PTS	003	400	C-PTS003-400	#14	12/C	1	PTS003-400AF	PTS003-400CJB	CPTS003A-400,CT-2, CT-6, CPTS003-400	
PTS	003	400	C-PTS003-400CS2	#14	1/C	4	PTS003-400CJB	PTS003-400CS2	CPTS003C-400, CPTS003D-400	
PTS	003	400	P-PTS003-400AF	#8	4/C	1	PTS003-400AF	MCC045-400A	PPTS003A-400AF, PT-15, PPTS003B-400AF	
PTS	004	400	I-PTS004-400AF	#16	2/C - T.S	2	PTS004-400AF	DPU-P1EH	I4027-400, I4030-400	
PTS	004	400	C-PTS004A-400AF	#14	3/C	1	PTS004-400AF	DPU-P2AD	CPTS004A-400,CT-2, CT-6, CPTS-400	
PTS	004	400	C-PTS004B-400AF	#14	19/C	1	PTS004-400AF	DPU-P1EH	CPTS004A-400,CT-2, CT-6, CPTS-400	
PTS	004	400	C-PTS004-400PSH	#14	2/C	1	PTS004-400CJB	PTS004-400PSH	CPTS004C-400, CPTS004E-400	Thickened Sludge Pump No. 4 Discharge High Pressure Switch
PTS	004	400	C-PTS004-400PSL	#14	2/C	1	PTS004-400CJB	PTS004-400PSL	CPTS004-400, CPTS004B-400	Thickened Sludge Pump No. 4 Suction Low Pressure Switch
PTS	004	400	P-PTS004-400	#8	4/C	1	PTS004-400AF	PTS004-400MO	PPTS004A-400AF, PT-15, PT-14, PT-19, PPTS004-400, PPTS004A-40C	thickened sludge pump 4

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
PTS	004	400	C-PTS004-400	#14	12/C	1	PTS004-400AF	PTS004-400CJB	CPTS004A-400,CT-2, CT-6, CPTS004-400	
PTS	004	400	C-PTS004-400CS2	#14	1/C	4	PTS004-400CJB	PTS004-400CS2	CPTS004C-400, CPTS004D-400	
PTS	004	400	P-PTS004-400AF	#8	4/C	1	PTS004-400AF	MCC045-400B	PPTS004A-400AF, PT-15, PPTS004B-400AF	
TFM	001	400	C-TFM001-400	#14	19/C	1	MCC045-400A	TFM001-400CJB	CTFM001A-400, CT-1A, CT-6, CTFM001-400	
TFM	001	400	CTFM001-400HTR	#14	1/C	2	TFM001-400CJB	TFM001-400HTR	CTFM001-400A	
TFM	001	400	C-TFM001-400CS1	#14	1/C	16	TFM001-400CJB	TFM001-400CS1	CTFM001-400B	
TFM	001	400	C-TFM001-400MS	#14	12/C	1	MCC040-400	DPU-P2EH	CMCC040-400, CT-8, CT-1, CP2EH-400	
TFM	002	400	P-TFM002-400	#3 & #8	3/C&G	1	MCC041-400	TFM002-400MO	PTFM002A-400, PT-5, PT-14, PT-19, PTFM002-400	Thickening Feed Tank Mixer 2
TFM	002	400	C-TFM002-400	#14	19/C	1	MCC045-400A	TFM002-400CJB	CTFM002A-400, CT-1A, CT-6, CTFM002-400	
TFM	002	400	CTFM002-400HTR	#14	1/C	2	TFM002-400CJB	TFM002-400HTR	CTFM002-400A	
TFM	002	400	C-TFM002-400CS1	#14	1/C	16	TFM002-400CJB	TFM002-400CS1	CTFM002-400B	
TFM	002	400	C-TFM002-400MS	#14	12/C	1	MCC041-400	DPU-P2EH	CMCC041-400, CT-8, CT-1, CP2EH-400	
TFP	001	400	C-SOV001-400	#14	1/C	2	TFP001-400AF	SOV001-400	CTFP001-400,CTFP001B-400, CTFP001D-400, CTFP001F-400, CTFP001H-400, CTFP001K-400	
TFP	001	400	P-TFP001-400	#2	3/C&G	1	TFP001-400AF	TFP001-400MO	PTFP001-400, PTFP001A-400	thickening Feed Pump 1
TFP	001	400	C-TFP001-400CS2	#14	1/C	4	TFP001-400AF	TFP001-400CS2	CTFP001-400,CTFP001B-400, CTFP001D-400, CTFP001E-400	
TFP	001	400	C-TFP001-400FS	#14	1/C	4	TFP001-400AF	TFP001-400FS	CTFP001-400,CTFP001B-400, CTFP001D-400, CTFP001F-400, CTFP001G-400	
TFP	001	400	C-TFP001-400HTR	#14	1/C	2	TFP001-400AF	TFP001-400HTR	CTFP001-400,CTFP001B-400, CTFP001C-400	
TFP	001	400	C-TFP001-400TS	#14	1/C	2	TFP001-400AF	TFP001-400TS	CTFP001-400,CTFP001A-400, PTFP001-400	
TFP	001	400	P-TFP001-400AF	#2	3/C&G	1	MCC045-400B	TFP001-400AF	PTFP001B-400, PT-15, PTFP001A-400	
TFP	001	400	C-TFP001-400ZSO	#14	1/C	2	TFP001-400AF	TFP001-400ZSO	CTFP001-400,CTFP001B-400, CTFP001D-400, CTFP001F-400, CTFP001H-400, CTFP001J-400	
TFP	001	400	I-TFP001-400AF	#16	2/C - T.S	3	TFP001AF-400	DPU-P1AD	I4050-400, I4057-400, I4058-400, I4059-400, I4062-400	
TFP	005	400	C-SOV005-400	#14	1/C	2	TFP005-400AF	SOV005-400	CTFP005-400,CTFP005B-400, CTFP005D-400, CTFP005F-400, CTFP005H-400, CTFP005K-400	
TFP	005	400	P-TFP005-400AF	#2	3/C&G	1	MCC046-400	TFP005-400AF	PTFP005B-400, PT-15, PTFP005A-400	thickening feed pump 5
TFP	005	400	P-TFP005-400	#2	3/C&G	1	TFP005-400AF	TFP005-400MO	PTFP005-400, PTFP005A-400	thickening feed pump 5
TFP	005	400	C-TFP005-400CS2	#14	1/C	4	TFP005-400AF	TFP005-400CS2	CTFP005-400,CTFP005B-400, CTFP005D-400, CTFP005E-400	
TFP	005	400	C-TFP005-400FS	#14	1/C	4	TFP005-400AF	TFP005-400FS	CTFP005-400,CTFP005B-400, CTFP005D-400, CTFP005F-400, CTFP005G-400	
TFP	005	400	C-TFP005-400HTR	#14	1/C	2	TFP005-400AF	TFP005-400HTR	CTFP005-400,CTFP005B-400, CTFP005C-400	
TFP	005	400	C-TFP005-400TS	#14	1/C	2	TFP005-400AF	TFP005-400TS	CTFP005-400,CTFP005A-400, PTFP005-400	
TFP	005	400	C-TFP005-400ZSO	#14	1/C	2	TFP005-400AF	TFP005-400ZSO	CTFP005-400,CTFP005B-400, CTFP005D-400, CTFP005F-400, CTFP005H-400, CTFP005J-400	
TFP	005	400	I-TFP005-400AF	#16	2/C - T.S	3	TFP005AF-400	DPU-P1EH	I4054-400, I4060-400, I4061-400, I4062-400	
TFP	005	400	C-TFP005A-400AF	#14	3/C	1	TFP005AF-400	DPU-P2AD	CTFP005-400AF, CT-2, CTFP-400	
TFP	005	400	C-TFP005B-400AF	#14	19/C	1	TFP005AF-400	DPU-P1EH	CTFP005-400AF, CT-2, CTFP-400	
TFP	006	400	C-SOV006-400	#14	1/C	2	TFP006-400AF	SOV006-400	CTFP006-400,CTFP006B-400, CTFP006D-400, CTFP006F-400, CTFP006H-400, CTFP006K-400	
TFP	006	400	P-TFP006-400AF	#2	3/C&G	1	MCC046-400B	TFP006-400AF	PTFP006B-400, PT-14, PT-16 , PTFP006A-400	thickening feed pump 6
TFP	006	400	P-TFP006-400	#2	3/C&G	1	TFP006-400AF	TFP006-400MO	PTFP006-400, PTFP006A-400	thickening feed pump 6
TFP	006	400	C-TFP006-400CS2	#14	1/C	4	TFP006-400AF	TFP006-400CS2	CTFP006-400,CTFP006B-400, CTFP006D-400, CTFP006E-400	
TFP	006	400	C-TFP006-400FS	#14	1/C	4	TFP006-400AF	TFP006-400FS	CTFP006-400,CTFP006B-400, CTFP006D-400, CTFP006F-400, CTFP006G-400	
TFP	006	400	C-TFP006-400HTR	#14	1/C	2	TFP006-400AF	TFP006-400HTR	CTFP006-400,CTFP006B-400, CTFP006C-400	
TFP	006	400	C-TFP006-400TS	#14	1/C	2	TFP006-400AF	TFP006-400TS	CTFP006-400,CTFP006A-400, PTFP006-400	
TFP	006	400	C-TFP006-400ZSO	#14	1/C	2	TFP006-400AF	TFP006-400ZSO	CTFP006-400,CTFP006B-400, CTFP006D-400, CTFP006F-400, CTFP006H-400, CTFP006J-400	
TFP	006	400	I-TFP006-400AF	#16	2/C - T.S	3	TFP006AF-400	DPU-P1EH	I4055-400, I4060-400, I4061-400, I4062-400	
TFP	006	400	C-TFP006A-400AF	#14	3/C	1	TFP006AF-400	DPU-P2AD	CTFP006-400AF, CT-2, CTFP-400	
TFP	006	400	C-TFP006B-400AF	#14	19/C	1	TFP006AF-400	DPU-P2EH	CTFP006-400AF, CT-2, CTFP-400	
TFP	007	400	C-SOV007-400	#14	1/C	2	TFP007-400AF	SOV007-400	CTFP007-400,CTFP007B-400, CTFP007D-400, CTFP007F-400, CTFP007H-400, CTFP007K-400	
TFP	007	400	P-TFP007-400AF	#2	3/C&G	1	MCC046-400A	TFP007-400AF	PTFP007B-400, PT-14, PT-16, PTFP007A-400	thickening feed pump 7
TFP	007	400	P-TFP007-400	#2	3/C&G	1	TFP007-400AF	TFP007-400MO	PTFP007-400, PTFP007A-400	thickening feed pump 7
TFP	007	400	C-TFP007-400CS2	#14	1/C	4	TFP007-400AF	TFP007-400CS2	CTFP007-400,CTFP007B-400, CTFP007D-400, CTFP007E-400	
TFP	007	400	C-TFP007-400FS	#14	1/C	4	TFP007-400AF	TFP007-400FS	CTFP007-400,CTFP007B-400, CTFP007D-400, CTFP007F-400, CTFP007G-400	
TFP	007	400	C-TFP007-400HTR	#14	1/C	2	TFP007-400AF	TFP007-400HTR	CTFP007-400,CTFP007B-400, CTFP007C-400	
TFP	007	400	C-TFP007-400TS	#14	1/C	2	TFP007-400AF	TFP007-400TS	CTFP007-400,CTFP007A-400, PTFP007-400	
TFP	007	400	C-TFP007-400ZSO	#14	1/C	2	TFP007-400AF	TFP007-400ZSO	CTFP007-400,CTFP007B-400, CTFP007D-400, CTFP007F-400, CTFP007H-400, CTFP007J-400	
TFP	007	400	I-TFP007-400AF	#16	2/C - T.S	3	TFP007AF-400	DPU-P1EH	I4056-400, I4061-400, I4062-400	
TFP	007	400	C-TFP007B-400AF	#14	19/C	1	TFP007AF-400	DPU-P2EH	CTFP007-400AF, CT-2, CTFP-400	
TFP	001	400	C-TFP001A-400AF	#14	3/C	1	TFP001AF-400	DPU-P2AD	CTFP001-400AF, CT-2, CTFP-400	

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
TFP	001	400	C-TFP001B-400AF	#14	19/C	1	TFP001AF-400	DPU-P1EH	CTFP001-400AF, CT-2, CTFP-400	
TFP	002	400	C-SOV002-400	#14	1/C	2	TFP002-400AF	SOV002-400	CTFP002-400,CTFP002B-400,CTFP002D-400,CTFP002F-400,CTFP002H-400,CTFP002K-400	
TFP	002	400	P-TFP002-400	#2	3/C&G	1	TFP002-400AF	PTFP002-400MO	PTFP002-400,PTFP002A-400	thickening feed pump 2
TFP	002	400	C-TFP002-400CS2	#14	1/C	4	TFP002-400AF	TFP002-400CS2	CTFP002-400,CTFP002B-400,CTFP002D-400,CTFP002E-400	
TFP	002	400	C-TFP002-400FS	#14	1/C	4	TFP002-400AF	TFP002-400FS	CTFP002-400,CTFP002B-400,CTFP002D-400,CTFP002F-400,CTFP002G-400	
TFP	002	400	C-TFP002-400HTR	#14	1/C	2	TFP002-400AF	TFP002-400HTR	CTFP002-400,CTFP002B-400,CTFP002C-400	
TFP	002	400	C-TFP002-400TS	#14	1/C	2	TFP002-400AF	TFP002-400TS	CTFP002-400,CTFP002A-400,PTFP002-400	
TFP	002	400	P-TFP002-400AF	#2	3/C&G	1	MCC045-400B	TFP002-400AF	PTFP002B-400,PT-15,PTFP002A-400	
TFP	002	400	C-TFP002-400ZSO	#14	1/C	2	TFP002-400AF	TFP002-400ZSO	CTFP002-400,CTFP002B-400,CTFP002D-400,CTFP002F-400,CTFP002H-400,CTFP002J-400	
TFP	002	400	I-TFP002-400AF	#16	2/C - T.S	3	TFP002AF-400	DPU-P1AD	I4051-400,I4057-400,I4058-400,I4059-400,I4062-400	
TFP	002	400	C-TFP002A-400AF	#14	3/C	1	TFP002AF-400	DPU-P2AD	CTFP002-400AF,CT-2,CTFP-400	
TFP	002	400	C-TFP002B-400AF	#14	19/C	1	TFP002AF-400	DPU-P1EH	CTFP002-400AF,CT-2,CTFP-400	
TFP	003	400	C-SOV003-400	#14	1/C	2	TFP003-400AF	SOV003-400	CTFP003-400,CTFP003B-400,CTFP003D-400,CTFP003F-400,CTFP003H-400,CTFP003K-400	
TFP	003	400	P-TFP003-400	#2	3/C&G	1	TFP003-400AF	TFP003-400MO	PTFP003-400,PTFP003A-400	thickening Feed Pump 3
TFP	003	400	C-TFP003-400CS2	#14	1/C	4	TFP003-400AF	TFP003-400CS2	CTFP003-400,CTFP003B-400,CTFP003D-400,CTFP003E-400	
TFP	003	400	C-TFP003-400FS	#14	1/C	4	TFP003-400AF	TFP003-400FS	CTFP003-400,CTFP003B-400,CTFP003D-400,CTFP003F-400,CTFP003G-400	
TFP	003	400	C-TFP003-400HTR	#14	1/C	2	TFP003-400AF	TFP003-400HTR	CTFP003-400,CTFP003B-400,CTFP003C-400	
TFP	003	400	C-TFP003-400TS	#14	1/C	2	TFP003-400AF	TFP003-400TS	CTFP003-400,CTFP003A-400,PTFP003-400	
TFP	003	400	C-TFP003-400ZSO	#14	1/C	2	TFP003-400AF	TFP003-400ZSO	CTFP003-400,CTFP003B-400,CTFP003D-400,CTFP003F-400,CTFP003H-400,CTFP003J-400	
TFP	003	400	P-TFP003-400AF	#2	3/C&G	1	MCC045-400B	TFP003-400AF	PTFP003B-400,PT-15,PTFP003A-400	
TFP	003	400	I-TFP003-400AF	#16	2/C - T.S	3	TFP003AF-400	DPU-P1EH	I4052-400,I4058-400,I4059-400,I4062-400	
TFP	003	400	C-TFP003A-400AF	#14	3/C	1	TFP003AF-400	DPU-P2EH	CTFP003-400AF,CT-2,CTFP-400	
TFP	003	400	C-TFP003B-400AF	#14	19/C	1	TFP003AF-400	DPU-P1EH	CTFP003-400AF,CT-2,CTFP-400	
TFP	004	400	C-SOV004-400	#14	1/C	2	TFP004-400AF	SOV004-400	CTFP004-400,CTFP004B-400,CTFP004D-400,CTFP004F-400,CTFP004H-400,CTFP004K-400	
TFP	004	400	P-TFP004-400AF	#2	3/C&G	1	MCC045-400B	TFP004-400AF	PTFP004B-400,PT-15,PTFP004A-400	thickening feed pump 4
TFP	004	400	P-TFP004-400	#2	3/C&G	1	TFP004-400AF	TFP004-400MO	PTFP004-400,PTFP004A-400	thickening feed pump 4
TFP	004	400	C-TFP004-400CS2	#14	1/C	4	TFP004-400AF	TFP004-400CS2	CTFP004-400,CTFP004B-400,CTFP004D-400,CTFP004E-400	
TFP	004	400	C-TFP004-400FS	#14	1/C	4	TFP004-400AF	TFP004-400FS	CTFP004-400,CTFP004B-400,CTFP004D-400,CTFP004F-400,CTFP004G-400	
TFP	004	400	C-TFP004-400HTR	#14	1/C	2	TFP004-400AF	TFP004-400HTR	CTFP004-400,CTFP004B-400,CTFP004C-400	
TFP	004	400	C-TFP004-400TS	#14	1/C	2	TFP004-400AF	TFP004-400TS	CTFP004-400,CTFP004A-400,PTFP004-400	
TFP	004	400	C-TFP004-400ZSO	#14	1/C	2	TFP004-400AF	TFP004-400ZSO	CTFP004-400,CTFP004B-400,CTFP004D-400,CTFP004F-400,CTFP004H-400,CTFP004J-400	
TFP	004	400	I-TFP004-400AF	#16	2/C - T.S	2	TFP004AF-400	DPU-P1AD	I4053-400,I4059-400,I4062-400	
TFP	004	400	I-TFP004-400AF	#16	2/C - T.S	2	TFP004AF-400	DPU-P1EH	I4053-400,I4059-400,I4062-400	
TFP	004	400	C-TFP004A-400AF	#14	3/C	1	TFP004AF-400	DPU-P2EH	CTFP004-400AF,CT-2,CTFP-400	
TFP	004	400	C-TFP004B-400AF	#14	19/C	1	TFP004AF-400	DPU-P1EH	CTFP004-400AF,CT-2,CTFP-400	
TGB	001	400	P-TGB001A-400	#10
	3/C&G	1	TGB001-400CP	TGB001-400MO	PTGB001A-400	480V TO MOTOR
TGB	001	400	C-TGB001A-400	#14	19/C	1	TGB001-400CP	TGB001-400JB1	CTGB001A-400	DIGITAL SIGNALS
TGB	001	400	I-TGB001A-400	#16	2 TW. SH	4	TGB001-400CP	TGB001-400JB1	ITGB001A-400	ANALOG SIGNALS
TGB	001	400	P-TGB001B-400	#12	3/C	1	TGB001-400CP	TGB001-400JB1	PTGB001B-400	120V POWER
TGB	001	400	I-TGB001-400CP	ETHERNET		1	DPU-P1EH	TGB001-400CP	ITGB001-400,I4001-400,I4002-400,I4003-400,I4004-400,I4005-400,IP1EH-400	ETHERNET FROM CP TO DPU
TGB	001	400	C-TGB001-400CP	#14	19/C	1	DPU-P1EH	TGB001-400CP	CP1EH-400,CT-1A,CT-6,CTGB001-400	DIGITAL FROM CP TO DPU
TGB	001	400	C-TGB001A-400CP	#14	9/C	1	DPU-P2AD	TGB001-400CP	CP2AD-400,CT-1A,CT-6,CTGB001-400	DIGITAL FROM IP TO DPU
TGB	001	400	C-TGB001-400IP	#14	12/C	1	DPU-P1EH	TGB001-400IP	CP1EH-400,CT-1A,CT-6,CTGB001-400IP	DIGITAL FROM IP TO DPU
TGB	001	400	I-TGB001-400IP	#16	2 TW. SH	4	DPU-P1EH	TGB001-400IP	ITGB001IP-400,I4007-400,I4008-400,I4009-400,I4010-400,I4011-400,I4012-400,I4013-400,I4014-400,I4015-400,I4016-400,IP1EH-400	ANALOG FROM IP TO DPU
TGB	001	400	I-TGB001-400CP	#16	2 TW. SH	7	DPU-P1AD	TGB001-400CP	ITGB001CP-400,I4006-400,I4007-400,I4008-400,I4009-400,I4010-400,I4011-400,I4012-400,I4013-400,I4014-400,I4015-400,I4016-400,IP1AD-400	ANALOG FROM CP TO DPU
TGB	001	400	P-TGB001A-400IP	#12	3/C	1	TGB001-400CP	TGB001-400IP	PTGB001IPA-400	120V POWER TO IP
TGB	001	400	P-TGB001BLV-400	#12	3/C	1	TGB001-400CP	TGB001BLV-400	PTGB001BLV-400	120V POWER TO BALL VALVE
TGB	001	400	P-PWB001-400	#12	3/C&G	1	TGB001-400CP	PWB001-400	PPWB001-400	480V POWER TO WATER BOOSTER PUMP
TGB	001	400	P-TGB001-400	#10
	3/C&G	1	TGB001-400CP	MCC045-400A	PTGB001-400,PT-19,PT-14,PTGB001A-400	480V TO CP
TGB	001	400	I-FTGB001A-400	#16	2/C TW SH	1	F400TGB001A	DPU-P1AD	I4030-400,I4019-400,I4020-400,I4021-400,I4022-400,I4023-400,IP1AD-400	ANALOG TO FIT
TGB	001	400	P-FTGB001A-400	#12	3/C&G	1	F400TGB001A	IPP-001-400	P4004-400,P4010-400,P-4011-400,P4012-400,P4013-400,P4014-400	120V POWER TO FIT
TGB	002	400	P-TGB002A-400	#10
	3/C&G	1	TGB002-400CP	TGB002-400MO	PTGB002A-400	480V TO MOTOR
TGB	002	400	C-TGB002A-400	#14	19/C	1	TGB002-400CP	TGB002-400JB1	CTGB002A-400	DIGITAL SIGNALS

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
TGB	002	400	I-TGB002A-400	#16	2 TW. SH	4	TGB002-400CP	TGB002-400JB1	ITGB002A-400	ANALOG SIGNALS
TGB	002	400	P-TGB002B-400	#12	3/C	1	TGB002-400CP	TGB002-400JB1	PTGB002B-400	120V POWER
TGB	002	400	I-TGB002-400CP	ETHERNET		1	DPU-P1EH	TGB002-400CP	ITGB002-400, I4001-400, I4002-400, I4003-400, I4004-400, I4005-400, IP1EH-400	ETHERNET FROM CP TO DPU
TGB	002	400	C-TGB002A-400CP	#14	9/C	1	DPU-P2AD	TGB001-400CP	CP2AD-400, CT-1A, CT-6, CTGB002-400	
TGB	005	400	P-TGB005A-400	#10
	3/C&G	1	TGB005-400CP	TGB005-400MO	PTGB005A-400	480V TO MOTOR
TGB	005	400	C-TGB005A-400	#14	19/C	1	TGB005-400CP	TGB005-400JB1	CTGB005A-400	DIGITAL SIGNALS
TGB	005	400	I-TGB005A-400	#16	2 TW. SH	4	TGB005-400CP	TGB005-400JB1	ITGB005A-400	ANALOG SIGNALS
TGB	005	400	P-TGB005B-400	#12	3/C	1	TGB005-400CP	TGB005-400JB1	PTGB005B-400	120V POWER
TGB	005	400	I-TGB005-400CP	ETHERNET		1	DPU-P1EH	TGB005-400CP	ITGB005-400, I4004-400, I4005-400, IP1EH-400	ETHERNET FROM CP TO DPU
TGB	005	400	C-TGB005A-400CP	#14	9/C	1	DPU-P2AD	TGB005-400CP	CP2AD-400, CT-1A, CT-6, CTGB005-400	
TGB	005	400	C-TGB005B-400CP	#14	19/C	1	DPU-P1EH	TGB005-400CP	CP1EH-400, CT-1A, CT-6, CTGB005-400	DIGITAL FROM CP TO DPU
TGB	005	400	C-TGB005-400IP	#14	12/C	1	DPU-P2EH	TGB005-400IP	CP2EH-400, CT-1A, CT-6, CTGB005-400IP	DIGITAL FROM IP TO DPU
TGB	005	400	I-TGB005-400IP	#16	2 TW. SH	4	DPU-P1EH	TGB005-400IP	ITGB005IP-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM IP TO DPU
TGB	005	400	I-TGB005A-400CP	#16	2 TW. SH	6	DPU-P1EH	TGB005-400CP	ITGB005CP-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM CP TO DPU
TGB	005	400	P-TGB005A-400IP	#12	3/C	1	TGB005-400CP	TGB005-400IP	PTGB005IPA-400	120V POWER TO IP
TGB	005	400	P-TGB005BLV-400	#12	3/C	1	TGB005-400CP	TGB005BLV-400	PTGB005BLV-400	120V POWER TO BALL VALVE
TGB	005	400	P-PWB005-400	#12	3/C&G	1	TGB005-400CP	PWB005-400	PPWB005-400	480V POWER TO WATER BOOSTER PUMP
TGB	005	400	P-TGB005-400	#10
	3/C&G	1	TGB005-400CP	MCC046-400A	PTGB005-400, PT-19, PT-14, PTGB005A-400	480V TO CP
TGB	006	400	P-TGB006A-400	#10
	3/C&G	1	TGB006-400CP	TGB006-400MO	PTGB006A-400	480V TO MOTOR
TGB	006	400	C-TGB006A-400	#14	19/C	1	TGB006-400CP	TGB006-400JB1	CTGB006A-400	DIGITAL SIGNALS
TGB	006	400	I-TGB006A-400	#16	2 TW. SH	4	TGB006-400CP	TGB006-400JB1	ITGB006A-400	ANALOG SIGNALS
TGB	006	400	P-TGB006B-400	#12	3/C	1	TGB006-400CP	TGB006-400JB1	PTGB006B-400	120V POWER
TGB	006	400	I-TGB006-400CP	ETHERNET		1	DPU-P1EH	TGB006-400CP	ITGB006-400, I4005-400, IP1EH-400	ETHERNET FROM CP TO DPU
TGB	006	400	C-TGB006A-400CP	#14	9/C	1	DPU-P2AD	TGB006-400CP	CP2AD-400, CT-1A, CT-6, CTGB006-400	
TGB	006	400	C-TGB006B-400CP	#14	12/C	1	DPU-P2EH	TGB006-400CP	CP2EH-400, CT-1A, CT-6, CTGB006-400	DIGITAL FROM CP TO DPU
TGB	006	400	C-TGB006-400IP	#14	12/C	1	DPU-P2EH	TGB006-400IP	CP2EH-400, CT-1A, CT-6, CTGB006-400IP	DIGITAL FROM IP TO DPU
TGB	006	400	I-TGB006-400IP	#16	2 TW. SH	2	DPU-P1EH	TGB006-400IP	ITGB006IP-400, I4016-400, IP1EH-400	ANALOG FROM IP TO DPU
TGB	006	400	I-TGB006A-400CP	#16	2 TW. SH	7	DPU-P1EH	TGB006-400CP	ITGB006CP-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM CP TO DPU
TGB	006	400	P-TGB006A-400IP	#12	3/C	1	TGB006-400CP	TGB006-400IP	PTGB006IPA-400	120V POWER TO IP
TGB	006	400	P-TGB006BLV-400	#12	3/C	1	TGB006-400CP	TGB006BLV-400	PTGB006BLV-400	120V POWER TO BALL VALVE
TGB	006	400	P-PWB006-400	#12	3/C&G	1	TGB006-400CP	PWB006-400	PPWB006-400	480V POWER TO WATER BOOSTER PUMP
TGB	006	400	P-TGB006-400	#10
	3/C&G	1	TGB006-400CP	MCC046-400A	PTGB006-400, PT-19, PT-14, PTGB006A-400	480V TO CP
TGB	002	400	C-TGB002B-400CP	#14	19/C	1	DPU-P1EH	TGB001-400CP	CP1EH-400, CT-1A, CT-6, CTGB002-400	DIGITAL FROM CP TO DPU
TGB	002	400	I-TGB002A-400CP	#16	2 TW. SH	3	DPU-P1AD	TGB002-400CP	ITGB002CP-400, I4007-400, I4008-400, I4009-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1AD-400	DIGITAL FROM IP TO DPU
TGB	002	400	C-TGB002-400IP	#14	12/C	1	DPU-P1EH	TGB002-400IP	CP1EH-400, CT-1A, CT-6, CTGB002-400IP	DIGITAL FROM IP TO DPU
TGB	002	400	I-TGB002-400IP	#16	2 TW. SH	4	DPU-P1EH	TGB002-400IP	ITGB002IP-400, I4008-400, I4009-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM IP TO DPU
TGB	002	400	I-TGB002A-400CP	#16	2 TW. SH	4	DPU-P1EH	TGB001-400CP	ITGB002CP-400, I4007-400, I4008-400, I4009-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM CP TO DPU
TGB	002	400	P-TGB002A-400IP	#12	3/C	1	TGB002-400CP	TGB002-400IP	PTGB002IPA-400	DIGITAL FROM IP TO CP
TGB	002	400	P-TGB002BLV-400	#12	3/C	1	TGB002-400CP	TGB002BLV-400	PTGB002BLV-400	120V POWER TO BALL VALVE
TGB	005	400	P-FTGB005A-400	#12	3/C&G	1	F400TGB005A	IPP-001-400	P4008-400, P4013-400, P4014-400	
TGB	005	400	I-FTGB005A-400	#16	2/C TW SH	1	F400TGB005A	DPU-P1EH	I4034-400, I4022-400, I4023-400, IP1EH-400	
TGB	006	400	P-FTGB006A-400	#12	3/C&G	1	F400TGB006A	IPP-001-400	P4009-400, P4014-400	
TGB	006	400	I-FTGB006A-400	#16	2/C TW SH	1	F400TGB006A	DPU-P1EH	I4035-400, I4023-400, IP1EH-400	
TGB	002	400	P-PWB002-400	#12	3/C&G	1	TGB002-400CP	PWB002-400	PPWB002-400	480V POWER TO WATER BOOSTER PUMP
TPS	013	400	C-L400PMT013ALS	#14	3/C	1	L400PMT013ALS	DPU-P2EH	CPMT013-400, CP2EH	
TPS	013	400	P-400PMT013LIT	#12	3/C	1	L400PMT013LIT	IPP001-400	PPMT013-400	
TPS	013	400	I-L400PMT011LIT	#16	2/C T.S.	1	L400PMT011LIT	DPU-P1EH	IPMT013-400, IP1EH	
TGB	002	400	P-TGB002-400	#10
	3/C&G	1	TGB002-400CP	MCC045-400B	PTGB002-400, PT-19, PT-14, PTGB002A-400	480V TO CP
TGB	002	400	P-FTGB002A-400	#12	3/C&G	1	F400TGB002A	IPP-001-400	P4005-400, P4010-400, P-4011-400, P4012-400, P4013-400, P4014-400	120V POWER TO FIT
TGB	002	400	I-FTGB002A-400	#16	2/C TW SH	1	F400TGB002A	DPU-P1EH	I4031-400, I4019-400, I4020-400, I4021-400, I4022-400, I4023-400, IP1EH-400	ANALOG TO FIT
TGB	003	400	P-TGB003A-400	#10
	3/C&G	1	TGB003-400CP	TGB003-400MO	PTGB003A-400	480V TO MOTOR
TGB	003	400	C-TGB003A-400	#14	19/C	1	TGB003-400CP	TGB003-400JB1	CTGB003A-400	DIGITAL SIGNALS

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
TGB	003	400	I-TGB003A-400	#16	2 TW. SH	4	TGB003-400CP	TGB003-400JB1	ITGB003A-400	ANALOG SIGNALS
TGB	003	400	P-TGB003B-400	#12	3/C	1	TGB003-400CP	TGB003-400JB1	PTGB003B-400	120V POWER
TGB	003	400	I-TGB003-400CP	ETHERNET		1	DPU-P1EH	TGB003-400CP	ITGB003-400, I4002-400, I4003-400, I4004-400, I4005-400, IP1EH-400	ETHERNET FROM CP TO DPU
TGB	003	400	C-TGB003-400CP	#14	19/C	1	DPU-P1EH	TGB003-400CP	CP1EH-400, CT-1A, CT-6, CTGB003-400	DIGITAL FROM CP TO DPU
TGB	003	400	C-TGB003-400IP	#14	12/C	1	DPU-P1EH	TGB003-400IP	CP1EH-400, CT-1A, CT-6, CTGB003-400IP	DIGITAL FROM IP TO DPU
TGB	003	400	I-TGB003-400IP	#16	2 TW. SH	1	DPU-P1AD	TGB003-400IP	ITGB003IP-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1AD-400	
TGB	003	400	I-TGB003-400IP	#16	2 TW. SH	1	DPU-P1EH	TGB003-400IP	ITGB003IP-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM IP TO DPU
TGB	003	400	I-TGB003A-400CP	#16	2 TW. SH	7	DPU-P1EH	TGB003-400CP	ITGB003CP-400, I4009-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM CP TO DPU
TGB	003	400	P-TGB003A-400IP	#12	3/C	1	TGB003-400CP	TGB003-400IP	PTGB003IPA-400	120V POWER TO IP
TGB	003	400	P-TGB003BLV-400	#12	3/C	1	TGB003-400CP	TGB003BLV-400	PTGB003BLV-400	120V POWER TO BALL VALVE
TGB	003	400	P-PWB003-400	#12	3/C&G	1	TGB003-400CP	PWB003-400	PPWB003-400	480V POWER TO WATER BOOSTER PUMP
TGB	003	400	P-TGB003-400	#10
	3/C&G	1	TGB003-400CP	MCC045-400A	PTGB003-400, PT-19, PT-14, PTGB003A-400	480V TO CP
TGB	003	400	P-FTGB003A-400	#12	3/C&G	1	F400TGB003A	IPP-001-400	P4006-400, P-4011-400, P4012-400, P4013-400, P4014-400	
TGB	003	400	I-FTGB003A-400	#16	2/C TW SH	1	F400TGB003A	DPU-P1EH	I4032-400, I4020-400, I4021-400, I4022-400, I4023-400, IP1EH-400	
TGB	004	400	P-TGB004A-400	#10
	3/C&G	1	TGB004-400CP	TGB004-400MO	PTGB004A-400	480V TO MOTOR
TGB	004	400	C-TGB004A-400	#14	19/C	1	TGB004-400CP	TGB004-400JB1	CTGB004A-400	DIGITAL SIGNALS
TGB	004	400	I-TGB004A-400	#16	2 TW. SH	4	TGB004-400CP	TGB004-400JB1	ITGB004A-400	ANALOG SIGNALS
TGB	004	400	P-TGB004B-400	#12	3/C	1	TGB004-400CP	TGB004-400JB1	PTGB004B-400	120V POWER
TGB	004	400	I-TGB004-400CP	ETHERNET		1	DPU-P1EH	TGB004-400CP	ITGB004-400, I4003-400, I4004-400, I4005-400, IP1EH-400	ETHERNET FROM CP TO DPU
TGB	004	400	C-TGB004A-400CP	#14	9/C	1	DPU-P2EH	TGB004-400CP	CP2EH-400, CT-1A, CT-6, CTGB004-400	
TGB	004	400	C-TGB004B-400CP	#14	19/C	1	DPU-P1EH	TGB004-400CP	CP1EH-400, CT-1A, CT-6, CTGB004-400	DIGITAL FROM CP TO DPU
TGB	004	400	C-TGB004-400IP	#14	12/C	1	DPU-P1EH	TGB004-400IP	CP1EH-400, CT-1A, CT-6, CTGB004-400IP	DIGITAL FROM IP TO DPU
TGB	004	400	I-TGB004-400IP	#16	2 TW. SH	4	DPU-P1AD	TGB004-400IP	ITGB004IP-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM IP TO DPU
USS	015	400	P-USS015-400R1	#350 & #1/0	3/C & GND	1	USS015-400	USS015-400R1		
USS	015	400	P-USS015-400R2	#350 & #1/0	3/C & GND	1	USS015-400	USS015-400R2		
USS	028	400	P-USS028-400R1	#350 & #1/0	3/C & GND	1	USS028-400	USS028-400R1		
USS	028	400	P-USS028-400R2	#350 & #1/0	3/C & GND	1	USS028-400	USS028-400R2		
USS	015	400	C-USS015-400C1	#10	4/C	1	USS015-400	USS015-400C1		
USS	015	400	C-USS015-400C2	#10	4/C	1	USS015-400	USS015-400C2		
USS	028	400	C-USS028-400C1	#10	4/C	1	USS028-400	USS028-400C1		
USS	028	400	C-USS028-400C2	#10	4/C	1	USS028-400	USS028-400C2		
TGB	004	400	I-TGB004A-400CP	#16	2 TW. SH	2	DPU-P1AD	TGB004-400CP	ITGB004CP-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1AD-400	
TGB	004	400	I-TGB004B-400CP	#16	2 TW. SH	6	DPU-P1EH	TGB004-400CP	ITGB004CP-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM CP TO DPU
TGB	004	400	P-TGB004A-400IP	#12	3/C	1	TGB004-400CP	TGB004-400IP	PTGB004IPA-400	120V POWER TO IP
TGB	004	400	P-TGB004BLV-400	#12	3/C	1	TGB004-400CP	TGB004BLV-400	PTGB004BLV-400	120V POWER TO BALL VALVE
TGB	004	400	P-PWB004-400	#12	3/C&G	1	TGB004-400CP	PWB004-400	PPWB004-400	480V POWER TO WATER BOOSTER PUMP
TGB	004	400	P-TGB004-400	#10
	3/C&G	1	TGB004-400CP	MCC045-400B	PTGB004-400, PT-19, PT-14, PTGB004A-400	480V TO CP
TGB	004	400	P-FTGB004A-400	#12	3/C&G	1	F400TGB004A	IPP-001-400	P4007-400, P4012-400, P4013-400, P4014-400	
TGB	004	400	I-FTGB004A-400	#16	2/C TW SH	1	F400TGB004A	DPU-P1EH	I4033-400, I4021-400, I4022-400, I4023-400, IP1EH-400	
TSS	001	400	C-TSS001-400LSH	#14	1/C	2	DPU-P1EH	TSS001-400LSH	C4001, C4002, CP1EH-400	
TSS	001	400	I-TSS001-400LIT	#16	2/C T.S.	1	DPU-P1EH	TSS001-400LIT	I4042-400, I4043-400, I-4045-400, IP1EH-400	
TSS	001	400	P-TSS001-400LIT	#12	3/C	1	IPP-001	TSS001-400LIT	P4042-400, P4043-400, P4045-400	
TSS	002	400	C-TSS002-400LSH	#14	1/C	2	DPU-P1EH	TSS002-400LSH	C4003-400, C4002-400, CP1EH-400	
TSS	002	400	I-TSS002-400LIT	#16	2/C T.S.	1	DPU-P1AD	TSS002-400LIT	I4044-400, I4045-400, IP1AD-400	
TSS	002	400	P-TSS002-400LIT	#12	3/C	1	IPP-001	TSS002-400LIT	P4044-400, P4045-400	
TUNNEL	001	725	P-V725WSP001	#12	3/C & GND	1	PPVLV-725	V725WSP001	PV725WSP001	
TUNNEL	001	725	P-V725CST001	#12	3/C & GND	1	PPVLV-725	V725CST001	PV725CST001	
TUNNEL	001	725	P-V725PPS001	#12	3/C & GND	1	PPVLV-725	V725PPS001	PV725PPS001	
TUNNEL	001	725	C-V725WSP001	#14	15/C	1	DPU37-716	V725WSP001	CV725WSP001	
TUNNEL	001	725	C-V725CST001	#14	15/C	1	DPU37-716	V725CST001	CV725CST001	
TUNNEL	001	725	C-V725PPS001	#14	15/C	1	DPU37-716	V725PPS001	CV725PPS001	
TUNNEL	002	725	P-V725WSP002	#12	3/C & GND	1	PPVLV-725	V725WSP002	PV725WSP002	
TUNNEL	002	725	P-V725CST002	#12	3/C & GND	1	PPVLV-725	V725CST002	PV725CST002	
TUNNEL	002	725	P-V725PPS002	#12	3/C & GND	1	PPVLV-725	V725PPS002	PV725PPS002	
TUNNEL	002	725	C-V725WSP002	#14	15/C	1	DPU38-706	V725WSP002	CV725WSP002	

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
TUNNEL	002	725	C-V725CST002	#14	15/C	1	DPU37-716	V725CST002	CV725CST002	
TUNNEL	002	725	C-V725PPS002	#14	15/C	1	DPU37-716	V725PPS002	CV725PPS002	
TUNNEL	003	725	P-V725WSP003	#12	3/C & GND	1	PPVLV-725	V725WSP003	PV725WSP003	
TUNNEL	003	725	P-V725CST003	#12	3/C & GND	1	PPVLV-725	V725CST003	PV725CST003	
TUNNEL	003	725	P-V725PPS003	#12	3/C & GND	1	PPVLV-725	V725PPS003	PV725PPS003	
TUNNEL	003	725	C-V725WSP003	#14	15/C	1	DPU38-706	V725WSP003	CV725WSP003	
TUNNEL	003	725	C-V725CST003	#14	15/C	1	DPU38-706	V725CST003	CV725CST003	
TUNNEL	003	725	C-V725PPS003	#14	15/C	1	DPU38-706	V725PPS003	CV725PPS003	
TUNNEL	004	725	P-V725WSP004	#12	3/C & GND	1	PPVLV-725	V725WSP004	PV725WSP004	
TUNNEL	004	725	P-V725PPS004	#12	3/C & GND	1	PPVLV-725	V725PPS004	PV725PPS004	
TUNNEL	004	725	C-V725WSP004	#14	15/C	1	DPU37-716	V725WSP004	CV725WSP004	
TUNNEL	004	725	C-V725PPS004	#14	15/C	1	DPU38-706	V725PPS004	CV725PPS004	
WSP	001	831	P-WSP001-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP001-831AF	P-WSP001-831	MCC TO VFD
WSP	001	831	P-WSP001-831MO	#4 & #10	3/C & GND	1	WSP001-831AF	WSP001-831	PWSP001A-831, PT-112 480VAC, PWSP001B-831, JB-WSP001, PWSP001C-831	VFD SHIELDED CABLE
WSP	001	831	C-WSP001-831CS	#14	2/C	1	WSP001-831AF	WSP001-831CS	CWSP001-831, CT121-480VAC, CWSP001A-831, JB-WSP001, CWSP001B-831	ESTOP
WSP	001	831	C-WSP001-831FSL	#14	2/C	1	WSP001-831AF	WSP001-831FSL	CWSP001-831, CT121-480VAC, CWSP001A-831, JB-WSP001, CWSP001C-831	FLOW SWITCH
WSP	001	831	C-WSP001-831SOV	#14	2/C	1	WSP001-831AF	WSP001-831SOV	CWSP001-831, CT121-480VAC, CWSP001A-831, JB-WSP001, CWSP001D-831	SOLENOID VALVE
WSP	001	831	C-WSP001-831CSV	#14	2/C	1	WSP001-831AF	WSP001-831CSV	CWSP001-831, CT121-480VAC, CWSP001A-831, JB-WSP001, CWSP001E-831	CHECK VALVE
WSP	001	831	C-WSP001-831AF	#14	12/C	1	WSP001-831AF	DPU045-834	IWSP001-831, IJB-001A-824, IWSP001A-831	VFD TO DPU
WSP	002	831	P-WSP002-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP002-831AF	P-WSP002-831	MCC TO VFD
WSP	002	831	P-WSP002-831MO	#4 & #10	3/C & GND	1	WSP002-831AF	WSP002-831	PWSP002A-831, PT-112 480VAC, PWSP002B-831, JB-WSP002, PWSP002C-831	VFD SHIELDED CABLE
WSP	002	831	C-WSP002-831CS	#14	2/C	1	WSP002-831AF	WSP002-831CS	CWSP002-831, CT121-480VAC, CWSP002A-831, JB-WSP002, CWSP002B-831	ESTOP
WSP	002	831	C-WSP002-831FSL	#14	2/C	1	WSP002-831AF	WSP002-831FSL	CWSP002-831, CT121-480VAC, CWSP002A-831, JB-WSP002, CWSP002C-831	FLOW SWITCH
WSP	002	831	C-WSP002-831SOV	#14	2/C	1	WSP002-831AF	WSP002-831SOV	CWSP002-831, CT121-480VAC, CWSP002A-831, JB-WSP002, CWSP002D-831	SOLENOID VALVE
WSP	002	831	C-WSP002-831CSV	#14	2/C	1	WSP002-831AF	WSP002-831CSV	CWSP002-831, CT121-480VAC, CWSP002A-831, JB-WSP002, CWSP002E-831	CHECK VALVE
WSP	002	831	C-WSP002-831AF	#14	12/C	1	WSP002-831AF	DPU045-834	IWSP002-831, IJB-002A-824, IWSP002A-831	VFD TO DPU
WSP	003	831	P-WSP003-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP003-831AF	P-WSP003-831	MCC TO VFD
WSP	003	831	P-WSP003-831MO	#4 & #10	3/C & GND	1	WSP003-831AF	WSP003-831	PWSP003A-831, PT-112 480VAC, PWSP003B-831, JB-WSP003, PWSP003C-831	VFD SHIELDED CABLE
WSP	003	831	C-WSP003-831CS	#14	2/C	1	WSP003-831AF	WSP003-831CS	CWSP003-831, CT121-480VAC, CWSP003A-831, JB-WSP003, CWSP003B-831	ESTOP
WSP	003	831	C-WSP003-831FSL	#14	2/C	1	WSP003-831AF	WSP003-831FSL	CWSP003-831, CT121-480VAC, CWSP003A-831, JB-WSP003, CWSP003C-831	FLOW SWITCH
WSP	003	831	C-WSP003-831SOV	#14	2/C	1	WSP003-831AF	WSP003-831SOV	CWSP003-831, CT121-480VAC, CWSP003A-831, JB-WSP003, CWSP003D-831	SOLENOID VALVE
WSP	003	831	C-WSP003-831CSV	#14	2/C	1	WSP003-831AF	WSP003-831CSV	CWSP003-831, CT121-480VAC, CWSP003A-831, JB-WSP003, CWSP003E-831	CHECK VALVE
WSP	003	831	C-WSP003-831AF	#14	12/C	1	WSP003-831AF	DPU045-834	IWSP003-831, IJB-003A-824, IWSP003A-831	VFD TO DPU
WSP	004	831	P-WSP004-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP004-831AF	P-WSP004-831	MCC TO VFD
WSP	004	831	P-WSP004-831MO	#4 & #10	3/C & GND	1	WSP004-831AF	WSP004-831	PWSP004A-831, PT-112 480VAC, PWSP004B-831, JB-WSP004, PWSP004C-831	VFD SHIELDED CABLE
WSP	004	831	C-WSP004-831CS	#14	2/C	1	WSP004-831AF	WSP004-831CS	CWSP004-831, CT121-480VAC, CWSP004A-831, JB-WSP004, CWSP004B-831	ESTOP
WSP	004	831	C-WSP004-831FSL	#14	2/C	1	WSP004-831AF	WSP004-831FSL	CWSP004-831, CT121-480VAC, CWSP004A-831, JB-WSP004, CWSP004C-831	FLOW SWITCH
WSP	004	831	C-WSP004-831SOV	#14	2/C	1	WSP004-831AF	WSP004-831SOV	CWSP004-831, CT121-480VAC, CWSP004A-831, JB-WSP004, CWSP004D-831	SOLENOID VALVE
WSP	004	831	C-WSP004-831CSV	#14	2/C	1	WSP004-831AF	WSP004-831CSV	CWSP004-831, CT121-480VAC, CWSP004A-831, JB-WSP004, CWSP004E-831	CHECK VALVE
WSP	004	831	C-WSP004-831AF	#14	12/C	1	WSP004-831AF	DPU045-834	IWSP004-831, IJB-004A-824, IWSP004A-831	VFD TO DPU
WSP	005	821	P-WSP005-821AF	#4 & #10	3/C & GND	1	MCC-036	WSP005-821AF	P-WSP005-821	MCC TO VFD
WSP	005	821	P-WSP005-821MO	#4 & #10	3/C & GND	1	WSP005-821AF	WSP005-821	PWSP005A-821, PT-112 480VAC, PWSP005B-821, JB-WSP005, PWSP005C-821	VFD SHIELDED CABLE
WSP	005	821	C-WSP005-821CS	#14	2/C	1	WSP005-821AF	WSP005-821CS	CWSP005-821, CT121-480VAC, CWSP005A-821, JB-WSP005, CWSP005B-821	ESTOP
WSP	005	821	C-WSP005-821FSL	#14	2/C	1	WSP005-821AF	WSP005-821FSL	CWSP005-821, CT121-480VAC, CWSP005A-821, JB-WSP005, CWSP005C-821	FLOW SWITCH
WSP	005	821	C-WSP005-821SOV	#14	2/C	1	WSP005-821AF	WSP005-821SOV	CWSP005-821, CT121-480VAC, CWSP005A-821, JB-WSP005, CWSP005D-821	SOLENOID VALVE
WSP	005	821	C-WSP005-821CSV	#14	2/C	1	WSP005-821AF	WSP005-821CSV	CWSP005-821, CT121-480VAC, CWSP005A-821, JB-WSP005, CWSP005E-821	CHECK VALVE
WSP	005	821	C-WSP005-821AF	#14	12/C	1	WSP005-821AF	DPU042-824	IWSP005-821, IJB-005A-824, IWSP005A-821	VFD TO DPU
WSP	006	821	P-WSP006-821AF	#4 & #10	3/C & GND	1	MCC-036	WSP006-821AF	P-WSP006-821	MCC TO VFD
WSP	006	821	P-WSP006-821MO	#4 & #10	3/C & GND	1	WSP006-821AF	WSP006-821	PWSP006A-821, PT-112 480VAC, PWSP006B-821, JB-WSP006, PWSP006C-821	VFD SHIELDED CABLE
WSP	006	821	C-WSP006-821CS	#14	2/C	1	WSP006-821AF	WSP006-821CS	CWSP006-821, CT121-480VAC, CWSP006A-821, JB-WSP006, CWSP006B-821	ESTOP
WSP	006	821	C-WSP006-821FSL	#14	2/C	1	WSP006-821AF	WSP006-821FSL	CWSP006-821, CT121-480VAC, CWSP006A-821, JB-WSP006, CWSP006C-821	FLOW SWITCH
WSP	006	821	C-WSP006-821SOV	#14	2/C	1	WSP006-821AF	WSP006-821SOV	CWSP006-821, CT121-480VAC, CWSP006A-821, JB-WSP006, CWSP006D-821	SOLENOID VALVE
WSP	006	821	C-WSP006-821CSV	#14	2/C	1	WSP006-821AF	WSP006-821CSV	CWSP006-821, CT121-480VAC, CWSP006A-821, JB-WSP006, CWSP006E-821	CHECK VALVE
WSP	006	821	C-WSP006-821AF	#14	12/C	1	WSP006-821AF	DPU042-824	IWSP006-821, IJB-006A-824, IWSP006A-821	VFD TO DPU
WSP	001	821	P-WSP001-821AF	#4 & #10	3/C & GND	1	MCC-036	WSP001-821AF	P-WSP001-821	MCC TO VFD

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
WSP	001	821	P-WSP001-821MO	#4 & #10	3/C & GND	1	WSP001-821AF	WSP001-821	PWSP001A-821, PT-112 480VAC, PWSP001B-821, JB-WSP001, PWSP001C-821	VFD SHIELDED CABLE
WSP	001	821	C-WSP001-821CS	#14	2/C	1	WSP001-821AF	WSP001-821CS	CWSP001-821, CT121-480VAC, CWSP001A-821, JB-WSP001, CWSP001B-821	ESTOP
WSP	001	821	C-WSP001-821FSL	#14	2/C	1	WSP001-821AF	WSP001-821FSL	CWSP001-821, CT121-480VAC, CWSP001A-821, JB-WSP001, CWSP001C-821	FLOW SWITCH
WSP	001	821	C-WSP001-821SOV	#14	2/C	1	WSP001-821AF	WSP001-821SOV	CWSP001-821, CT121-480VAC, CWSP001A-821, JB-WSP001, CWSP001D-821	SOLENOID VALVE
WSP	001	821	C-WSP001-821CSV	#14	2/C	1	WSP001-821AF	WSP001-821CSV	CWSP001-821, CT121-480VAC, CWSP001A-821, JB-WSP001, CWSP001E-821	CHECK VALVE
WSP	001	821	C-WSP001-821AF	#14	12/C	1	WSP001-821AF	DPU042-824	IWSP001-821, IJB-001A-824, IWSP001A-821	VFD TO DPU
WSP	002	821	P-WSP002-821AF	#4 & #10	3/C & GND	1	MCC-036	WSP002-821AF	P-WSP002-821	MCC TO VFD
WSP	002	821	P-WSP002-821MO	#4 & #10	3/C & GND	1	WSP002-821AF	WSP002-821	PWSP002A-821, PT-112 480VAC, PWSP002B-821, JB-WSP002, PWSP002C-821	VFD SHIELDED CABLE
WSP	002	821	C-WSP002-821CS	#14	2/C	1	WSP002-821AF	WSP002-821CS	CWSP002-821, CT121-480VAC, CWSP002A-821, JB-WSP002, CWSP002B-821	ESTOP
WSP	002	821	C-WSP002-821FSL	#14	2/C	1	WSP002-821AF	WSP002-821FSL	CWSP002-821, CT121-480VAC, CWSP002A-821, JB-WSP002, CWSP002C-821	FLOW SWITCH
WSP	002	821	C-WSP002-821SOV	#14	2/C	1	WSP002-821AF	WSP002-821SOV	CWSP002-821, CT121-480VAC, CWSP002A-821, JB-WSP002, CWSP002D-821	SOLENOID VALVE
WSP	002	821	C-WSP002-821CSV	#14	2/C	1	WSP002-821AF	WSP002-821CSV	CWSP002-821, CT121-480VAC, CWSP002A-821, JB-WSP002, CWSP002E-821	CHECK VALVE
WSP	002	821	C-WSP002-821AF	#14	12/C	1	WSP002-821AF	DPU042-824	IWSP002-821, IJB-002A-824, IWSP002A-821	VFD TO DPU
WSP	003	821	P-WSP003-821AF	#4 & #10	3/C & GND	1	MCC-036	WSP003-821AF	P-WSP003-821	MCC TO VFD
WSP	003	821	P-WSP003-821MO	#4 & #10	3/C & GND	1	WSP003-821AF	WSP003-821	PWSP003A-821, PT-112 480VAC, PWSP003B-821, JB-WSP003, PWSP003C-821	VFD SHIELDED CABLE
WSP	003	821	C-WSP003-821CS	#14	2/C	1	WSP003-821AF	WSP003-821CS	CWSP003-821, CT121-480VAC, CWSP003A-821, JB-WSP003, CWSP003B-821	ESTOP
WSP	003	821	C-WSP003-821FSL	#14	2/C	1	WSP003-821AF	WSP003-821FSL	CWSP003-821, CT121-480VAC, CWSP003A-821, JB-WSP003, CWSP003C-821	FLOW SWITCH
WSP	003	821	C-WSP003-821SOV	#14	2/C	1	WSP003-821AF	WSP003-821SOV	CWSP003-821, CT121-480VAC, CWSP003A-821, JB-WSP003, CWSP003D-821	SOLENOID VALVE
WSP	003	821	C-WSP003-821CSV	#14	2/C	1	WSP003-821AF	WSP003-821CSV	CWSP003-821, CT121-480VAC, CWSP003A-821, JB-WSP003, CWSP003E-821	CHECK VALVE
WSP	003	821	C-WSP003-821AF	#14	12/C	1	WSP003-821AF	DPU042-824	IWSP003-821, IJB-003A-824, IWSP003A-821	VFD TO DPU
WSP	004	821	P-WSP004-821AF	#4 & #10	3/C & GND	1	MCC-036	WSP004-821AF	P-WSP004-821	MCC TO VFD
WSP	004	821	P-WSP004-821MO	#4 & #10	3/C & GND	1	WSP004-821AF	WSP004-821	PWSP004A-821, PT-112 480VAC, PWSP004B-821, JB-WSP004, PWSP004C-821	VFD SHIELDED CABLE
WSP	004	821	C-WSP004-821CS	#14	2/C	1	WSP004-821AF	WSP004-821CS	CWSP004-821, CT121-480VAC, CWSP004A-821, JB-WSP004, CWSP004B-821	ESTOP
WSP	004	821	C-WSP004-821FSL	#14	2/C	1	WSP004-821AF	WSP004-821FSL	CWSP004-821, CT121-480VAC, CWSP004A-821, JB-WSP004, CWSP004C-821	FLOW SWITCH
WSP	004	821	C-WSP004-821SOV	#14	2/C	1	WSP004-821AF	WSP004-821SOV	CWSP004-821, CT121-480VAC, CWSP004A-821, JB-WSP004, CWSP004D-821	SOLENOID VALVE
WSP	004	821	C-WSP004-821CSV	#14	2/C	1	WSP004-821AF	WSP004-821CSV	CWSP004-821, CT121-480VAC, CWSP004A-821, JB-WSP004, CWSP004E-821	CHECK VALVE
WSP	004	821	C-WSP004-821AF	#14	12/C	1	WSP004-821AF	DPU042-824	IWSP004-821, IJB-004A-824, IWSP004A-821	VFD TO DPU
WSP	005	831	P-WSP005-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP005-831AF	P-WSP005-831	MCC TO VFD
WSP	005	831	P-WSP005-831MO	#4 & #10	3/C & GND	1	WSP005-831AF	WSP005-831	PWSP005A-831, PT-112 480VAC, PWSP005B-831, JB-WSP005, PWSP005C-831	VFD SHIELDED CABLE
WSP	005	831	C-WSP005-831CS	#14	2/C	1	WSP005-831AF	WSP005-831CS	CWSP005-831, CT121-480VAC, CWSP005A-831, JB-WSP005, CWSP005B-831	ESTOP
WSP	005	831	C-WSP005-831FSL	#14	2/C	1	WSP005-831AF	WSP005-831FSL	CWSP005-831, CT121-480VAC, CWSP005A-831, JB-WSP005, CWSP005C-831	FLOW SWITCH
WSP	005	831	C-WSP005-831SOV	#14	2/C	1	WSP005-831AF	WSP005-831SOV	CWSP005-831, CT121-480VAC, CWSP005A-831, JB-WSP005, CWSP005D-831	SOLENOID VALVE
WSP	005	831	C-WSP005-831CSV	#14	2/C	1	WSP005-831AF	WSP005-831CSV	CWSP005-831, CT121-480VAC, CWSP005A-831, JB-WSP005, CWSP005E-831	CHECK VALVE
WSP	005	831	C-WSP005-831AF	#14	12/C	1	WSP005-831AF	DPU045-834	IWSP005-831, IJB-005A-824, IWSP005A-831	VFD TO DPU
WSP	006	831	P-WSP006-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP006-831AF	P-WSP006-831	MCC TO VFD
WSP	006	831	P-WSP006-831MO	#4 & #10	3/C & GND	1	WSP006-831AF	WSP006-831	PWSP006A-831, PT-112 480VAC, PWSP006B-831, JB-WSP006, PWSP006C-831	VFD SHIELDED CABLE
WSP	006	831	C-WSP006-831CS	#14	2/C	1	WSP006-831AF	WSP006-831CS	CWSP006-831, CT121-480VAC, CWSP006A-831, JB-WSP006, CWSP006B-831	ESTOP
WSP	006	831	C-WSP006-831FSL	#14	2/C	1	WSP006-831AF	WSP006-831FSL	CWSP006-831, CT121-480VAC, CWSP006A-831, JB-WSP006, CWSP006C-831	FLOW SWITCH
WSP	006	831	C-WSP006-831SOV	#14	2/C	1	WSP006-831AF	WSP006-831SOV	CWSP006-831, CT121-480VAC, CWSP006A-831, JB-WSP006, CWSP006D-831	SOLENOID VALVE
WSP	006	831	C-WSP006-831CSV	#14	2/C	1	WSP006-831AF	WSP006-831CSV	CWSP006-831, CT121-480VAC, CWSP006A-831, JB-WSP006, CWSP006E-831	CHECK VALVE
WSP	006	831	C-WSP006-831AF	#14	12/C	1	WSP006-831AF	DPU045-834	IWSP006-831, IJB-006A-824, IWSP006A-831	VFD TO DPU

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
PMT	011	400	C-PBV171-400ZSO	#14	1/C	2	PBV171-400CP	PBV171-400ZSO	CPBV171B-400	
PMT	011	400	C-PBV171-400ZSC	#14	1/C	2	PBV171-400CP	PBV171-400ZSC	CPBV171A-400	
PMT	011	400	P-PBV168-400	#12	1/C	3	PBV168-400MO	BCP001-400	P001C-400, PBV168-400CP, P001B-400, P001-400, P009-400	
PMT	011	400	P-PBV171-400	#12	1/C	3	PBV171-400MO	BCP001-400	P001D-400, PBV171-400CP, P001A-400, P001-400, P009-400	
PMT	011	400	C-PBV168-400ZSO	#14	1/C	2	PBV168-400CP	PBV168-400ZSO	CPBV168B-400	
PMT	011	400	C-PBV168-400ZSC	#14	1/C	2	PBV168-400CP	PBV168-400ZSC	CPBV168A-400	
PMT	011	400	C-L400PMT011ALS	#14	1/C	2	L400PMT011ALS	DPU-P2EH	C015C-400, C015-400, C027-400,C026-400, CP2EH-400	
PMT	011	400	P-400PMT011LIT	#12	1/C	3	L400PMT011LIT	IPP001-400	P500-400, P526-400, P525-400	
PMT	011	400	I-L400PMT011LIT	#16	2/C	1	L400PMT011LIT	DPU-P1AD	I001-400, I022-400, I021-400, CP1AD-400	
PMT	012	400	P-PBV176-400	#12	1/C	3	PBV176-400MO	BCP001-400	P002C-400, PBV176-400CP, P002A-400, P002-400, P009-400	
PMT	012	400	P-PBV173-400	#12	1/C	3	PBV173-400MO	BCP001-400	P002D-400, PBV173-400CP, P002A-400, P002-400, P009-400	
PMT	012	400	C-PBV173-400ZSO	#14	1/C	2	PBV173-400CP	PBV173-400ZSO	CPBV173B-400	
PMT	012	400	C-PBV173-400ZSC	#14	1/C	2	PBV173-400CP	PBV173-400ZSC	CPBV173A-400	
PMT	012	400	C-PBV176-400ZSO	#14	1/C	2	PBV176-400CP	PBV176-400ZSO	CPBV176B-400	
PMT	012	400	C-PBV176-400ZSC	#14	1/C	2	PBV176-400CP	PBV176-400ZSC	CPBV176A-400	
PMT	012	400	C-PBV176A-400CP	#14	1/C	9	DPU-P2AD	PBV176-400CP	C016B-400, C016-400, C026-400, CP2AD-400	OUTLET
PMT	012	400	C-PBV176B-400CP	#14	1/C	5	DPU-P2EH	PBV176-400CP	C016B-400, C016-400, C026-400, CP2EH-400	
PMT	012	400	C-PBV173A-400CP	#14	1/C	9	DPU-P1EH	PBV173-400CP	C016A-400, C016-400, C026-400, CP1EH-400	INLET
PMT	012	400	C-PBV173B-400CP	#14	1/C	5	DPU-P2EH	PBV173-400CP	C016A-400, C016-400, C026-400, CP2EH-400	
PMT	012	400	C-L400PMT012ALS	#14	1/C	2	L400PMT012ALS	DPU-P2EH	C016C-400, C016-400,C026-400, CP2EH-400	
PMT	012	400	P-400PMT012LIT	#12	1/C	3	L400PMT012LIT	IPP001-400	P501-400, P526-400, P525-400	
PMT	012	400	I-L400PMT012LIT	#16	2/C	1	L400PMT012LIT	DPU-P1AD	I002-400, I022-400, I021-400, CP1AD-400	
PMT	013	400	C-L400PMT013LS	#14	1/C	2	L400PMT013LS	DPU-P2EH	CPMT013-400, C026-400, CP2EH-400	
PMT	013	400	P-400PMT013LIT	#12	1/C	3	L400PMT013LIT	IPP001-400	PPMT013-400, P525-400	
PMT	013	400	I-L400PMT013LIT	#16	2/C	1	L400PMT013LIT	DPU-P1EH	IPMT013-400, I021-400, CP1AD-400	
PMX	011	400	C-PMX011A-400CP	#14	1/C	9	PMX011-400CP	DPU-P1EH	C046-400, C045-400, CP1EH-400	
PMX	011	400	C-PMX011B-400CP	#14	1/C	3	PMX011-400CP	DPU-P2EH	C046-400, C045-400, CP2EH-400	
PMX	011	400	P-PMX011-400CP	#12	1/C	4	PMX011-400CP	MCC046-400A	PPMX011A-400, PPMX011-400	
PMX	012	400	C-PMX012A-400CP	#14	1/C	9	PMX012-400CP	DPU-P2EH	C047-400, C045-400, CP2EH-400	
PMX	012	400	C-PMX012B-400CP	#14	1/C	3	PMX012-400CP	DPU-P2AD	C047-400, C045-400, CP2AD-400	
PMX	012	400	P-PMX012-400CP	#12	1/C	4	PMX012-400CP	MCC046-400B	PPMX012-400, PPMX011-400	
PPS	001	701	P-PPS001-701AF	#4 & #8	3/C & GND	1	MCC-007A- 2CL	VFD-PPS001-701	P060348, WT01-706, P060366	MCC TO VFD
PPS	001	701	P-060610	#4 & #12	3/C & GND	1	VFD-PPS001-701	PPS001-701	P060367, WT02-706, P060356A, PT02-480VAC, P060600A, PJB005-701, P060610, PJB001-701, P060612	VFD SHIELDED CABLE
PPS	001	701	P-060611	#14	2/C & GND	1	VFD-PPS001-701	PPS001-701CS	C060367, P060356, PT02-480VAC, P060600, PJB005-701, P060610, PJB001-701, P060611	ESTOP
PPS	001	701	P-060613	#14	2/C & GND	1	VFD-PPS001-701	PPS001-701FSL	C060367, P060356, PT02-480VAC, P060600, PJB005-701, P060610, PJB001-701, P060613	FLOW SWITCH
PPS	001	701	P-060614	#12	2/C & GND	1	VFD-PPS001-701	PPS001-701SOV	C060367, P060356, PT02-480VAC, P060600, PJB005-701, P060610, PJB001-701, P060613, P060614	SOLENOID VALVE
PPS	001	701	C-CSV001-701	#14	2/C	1	VFD-PPS001-701	CSV001-701	C060367, P060356, PT02-480VAC, C060600, PJB005-701, P060610, PJB001-701, CCSV001-701	CHECK VALVE
PPS	001	701	C-KGV001-701	#14	2/C	1	VFD-PPS001-701	KGV001-701	C060367, P060356, PT02-480VAC, C060600, PJB005-701, P060610, PJB001-701, CKGV001-701	KNIFE GATE VALVE
PPS	001	701	C-KGV003-701	#14	2/C	1	VFD-PPS001-701	KGV007-701	C060367, P060356, PT02-480VAC, C060600, PJB005-701, P060610, PJB001-701, CKGV007-701	KNIFE GATE VALVE
PPS	001	701	C-PPS001-701AF	#14	12/C	1	VFD-PPS001-701	DPU-038	C060367A	VFD TO DPU
PPS	002	701	P-PPS002-701AF	#4 & #8	3/C & GND	1	MCC-007A- 2CR	VFD-PPS002-701	P060345, WT01-706, P060360	MCC TO VFD
PPS	002	701	P-060620	#4 & #12	3/C & GND	1	VFD-PPS002-701	PPS002-701	P060364, WT02-706, P060357A, PT01-480VAC, P060600A, PJB005-701, P060620, PJB002-701, P060622	VFD SHIELDED CABLE
PPS	002	701	P-060621	#12 & #12	1/C & GND	1	VFD-PPS002-701	PPS002-701CS	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, P060621	ESTOP
PPS	002	701	P-060623	#14	2/C & GND	1	VFD-PPS002-701	PPS002-701FSL	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, P060623	FLOW SWITCH
PPS	002	701	P-060624	#14	2/C	1	VFD-PPS002-701	PPS002-701SOV	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, P060623, P060624	SOLENOID VALVE
PPS	002	701	C-CSV002-701	#14	2/C	1	VFD-PPS002-701	CSV002-701	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, CCSV002-701	CHECK VALVE
PPS	002	701	C-KGV002-701	#14	2/C	1	VFD-PPS002-701	KGV002-701	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, CKGV002-701	KNIFE GATE VALVE
PPS	002	701	C-KGV004-701	#14	2/C	1	VFD-PPS002-701	KGV004-701	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, CKGV004-701	KNIFE GATE VALVE
PPS	002	701	C-KGV008-701	#14	2/C	1	VFD-PPS002-701	KGV008-701	C060364, WT02-706, P060357, PT01-480VAC, P060600, PJB005-701, P060620, PJB002-701, CKGV008-701	KNIFE GATE VALVE
PPS	002	701	C-PPS002-701AF	#14	12/C	1	VFD-PPS002-701	DPU-038	C060364A	VFD TO DPU
PPS	003	701	P-PPS003-701AF	#4 & #8	3/C & GND	1	MCC-007B- 9BL	VFD-PPS003-701	P060347, WT03-706, P060363	MCC TO VFD
PPS	003	701	P-060630	#4 & #12	3/C & GND	1	VFD-PPS003-701	PPS003-701	P060365, WT04-706, P060358A, PT02-480VAC, P060600A, PJB005-701, P060630, PJB003-701, P060632	VFD SHIELDED CABLE
PPS	003	701	P-060631	#14	2/C	1	VFD-PPS003-701	PPS003-701CS	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, P060631	ESTOP
PPS	003	701	P-060633	#14	2/C	1	VFD-PPS003-701	PPS003-701FSL	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, P060633	FLOW SWITCH
PPS	003	701	P-060634	#14	2/C	1	VFD-PPS003-701	PPS003-701SOV	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, P060633, P060634	SOLENOID VALVE
PPS	003	701	C-CSV003-701	#14	2/C	1	VFD-PPS003-701	CSV003-701	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, CCSV003-701	CHECK VALVE
PPS	003	701	C-KGV005-701	#14	2/C	1	VFD-PPS003-701	KGV005-701	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, CKGV005-701	KNIFE GATE VALVE
PPS	003	701	C-KGV009-701	#14	2/C	1	VFD-PPS003-701	KGV009-701	C060365, WT04-706, P060358, PT02-480VAC, P060600, PJB005-701, P060630, PJB003-701, CKGV009-701	KNIFE GATE VALVE
PPS	003	701	C-PPS003-701AF	#14	12/C	1	VFD-PPS003-701	DPU-038	C060365A	VFD TO DPU
PPS	004	701	C-PPS004-701AF	#14	12/C	1	VFD-PPS004-701	DPU-038	C060361A	VFD TO DPU
PPS	004	701	P-PPS004-701AF	#4 & #8	3/C & GND	1	MCC-007	VFD-PPS004-701	P060346, WT03-706, P060362	MCC TO VFD
PPS	004	701	P-060640	#4 & #12	3/C & GND	1	VFD-PPS004-701	PPS004-701	P060361, WT04-706, P060359A, PT02-480VAC, P060600A, PJB005-701, P060640, PJB004-701, P060642	VFD SHIELDED CABLE
PPS	004	701	P-060641	#12 & #12	1/C & GND	1	VFD-PPS004-701	PPS004-701CS	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, P060641	ESTOP
PPS	004	701	P-060643	#14	2/C & GND	1	VFD-PPS004-701	PPS004-701FSL	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, P060643	FLOW SWITCH
PPS	004	701	P-060644	#14	2/C	1	VFD-PPS004-701	PPS004-701SOV	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, P060643, P060644	SOLENOID VALVE
PPS	004	701	C-CSV004-701	#14	2/C	1	VFD-PPS004-701	CSV004-701	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, CCSV004-701	CHECK VALVE
PPS	004	701	C-KGV003-701	#14	2/C	1	VFD-PPS004-701	KGV003-701	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, CKGV003-701	KNIFE GATE VALVE
PPS	004	701	C-KGV006-701	#14	2/C	1	VFD-PPS004-701	KGV006-701	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, CKGV006-701	KNIFE GATE VALVE

Designed by:
J. CROWLEY JR

Drawn by:

Checked by:
J. CROWLEY

REV No.	DATE	REVISION DESCRIPTION	APPV
1	9/25/24	REVISED PER ADDENDUM 4	

CDM
Smith

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

000-E-013
ELECTRICAL
CABLE SCHEDULE XI

Contract:
1799

CAD File Name:
000-E-013.DWG

Date:
07 / 11 / 2024

Sheet:
365 of 440

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
PPS	004	701	C-KGV010-701	#14	2/C	1	VFD-PPS004-701	KGV010-701	C060361, WT04-706, P060359, PT02-480VAC, P060600, PJB005-701, P060640, PJB004-701, CKGV010-701	KNIFE GATE VALVE
PPS	001	702	P-PPS001-702AF	#4 & #8	3/C & GND	1	MCC-006	VFD-PPS001-702	P060349, WT01-706, P060368	MCC TO VFD
PPS	001	702	P-060510	#4 & #12	3/C & GND	1	VFD-PPS001-702	PPS001-702	P060369, WT02-706, P060355A, PT01-480VAC, P060500A, PJB005-702, P060510, PJB001-702, P060512	VFD SHIELDED CABLE
PPS	001	702	P-060511	#14	2/C	1	VFD-PPS001-702	PPS001-702CS	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, P060511	ESTOP
PPS	001	702	P-060513	#14	2/C	1	VFD-PPS001-702	PPS001-702FSL	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, P060513	FLOW SWITCH
PPS	001	702	P-060514	#14	2/C	1	VFD-PPS001-702	PPS001-702SOV	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, P060513, P060514	SOLENOID VALVE
PPS	001	702	C-CSV001-702	#14	2/C	1	VFD-PPS001-702	CSV001-702	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, CCSV001-702	CHECK VALVE
PPS	001	702	C-KGV001-702	#14	2/C	1	VFD-PPS001-702	KGV001-702	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, CKGV001-702	KNIFE GATE VALVE
PPS	001	702	C-KGV003-702	#14	2/C	1	VFD-PPS001-702	KGV003-702	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, CKGV003-702	KNIFE GATE VALVE
PPS	001	702	C-KGV005-702	#14	2/C	1	VFD-PPS001-702	KGV005-702	C060369, WT02-706, P060355, PT01-480VAC, P060500, PJB005-702, P060510, PJB001-702, CKGV005-702	KNIFE GATE VALVE
PPS	001	702	C-PPS001-702AF	#14	12/C	1	VFD-PPS001-702	DPU-038	C060369A	VFD TO DPU
PPS	002	702	P-PPS002-702AF	#4 & #8	3/C & GND	1	MCC-006	VFD-PPS002-702	P060350, WT01-706, P060370	MCC TO VFD
PPS	002	702	P-060520	#4 & #12	3/C & GND	1	VFD-PPS002-702	PPS002-702	P060371, WT02-706, P060354A, PT01-480VAC, P060500A, PJB005-702, P060520, PJB002-702, P060522	VFD SHIELDED CABLE
PPS	002	702	P-060521	#14	2/C	1	VFD-PPS002-702	PPS002-702CS	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, P060521	ESTOP
PPS	002	702	P-060523	#14	2/C	1	VFD-PPS002-702	PPS002-702FSL	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, P060523	FLOW SWITCH
PPS	002	702	P-060524	#14	2/C	1	VFD-PPS002-702	PPS002-702SOV	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, P060523, P060524	SOLENOID VALVE
PPS	002	702	C-CSV002-702	#14	2/C	1	VFD-PPS002-702	CSV002-702	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, CCSV002-702	CHECK VALVE
PPS	002	702	C-KGV004-702	#14	2/C	1	VFD-PPS002-702	KGV004-702	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, CKGV004-702	KNIFE GATE VALVE
PPS	002	702	C-KGV006-702	#14	2/C	1	VFD-PPS002-702	KGV006-702	C060371, WT02-706, P060354, PT01-480VAC, P060500, PJB005-702, P060520, PJB002-702, CKGV006-702	KNIFE GATE VALVE
PPS	002	702	C-PPS002-702AF	#14	12/C	1	VFD-PPS002-702	DPU-038	C060371A	VFD TO DPU
PPS	003	702	P-PPS003-702AF	#4 & #8	3/C & GND	1	MCC-006	VFD-PPS003-702	P060351, WT01-706, P060372	MCC TO VFD
PPS	003	702	P-060530	#4 & #12	3/C & GND	1	VFD-PPS003-702	PPS003-702	P060373, WT02-706, P060353A, PT01-480VAC, P060500A, PJB005-702, P060530, PJB003-702, P060532	VFD SHIELDED CABLE
PPS	003	702	P-060531	#14	2/C	1	VFD-PPS003-702	PPS003-702CS	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, P060531	ESTOP
PPS	003	702	P-060533	#14	2/C	1	VFD-PPS003-702	PPS003-702FSL	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, P060533	FLOW SWITCH
PPS	003	702	P-060534	#14	2/C	1	VFD-PPS003-702	PPS003-702SOV	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, P060533, P060534	SOLENOID VALVE
PPS	003	702	C-CSV003-702	#14	2/C	1	VFD-PPS003-702	CSV003-702	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, CCSV003-702	CHECK VALVE
PPS	003	702	C-KGV002-702	#14	2/C	1	VFD-PPS003-702	KGV002-702	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, CKGV002-702	KNIFE GATE VALVE
PPS	003	702	C-KGV007-702	#14	2/C	1	VFD-PPS003-702	KGV007-702	C060373, WT02-706, P060353, PT01-480VAC, P060500, PJB005-702, P060530, PJB003-702, CKGV007-702	KNIFE GATE VALVE
PPS	003	702	C-PPS003-702AF	#14	12/C	1	VFD-PPS003-702	DPU-038	C060373A	VFD TO DPU
PPS	001	711	P-PPS001-711AF	#4 & #8	3/C & GND	1	MCC-004	VFD-PPS001-711	P060450, WT01-716, P060459	MCC TO VFD
PPS	001	711	P060710	#4 & #12	3/C & GND	1	VFD-PPS001-711	PPS001-711	P060464, WT02-716, P060466A, PT03-480VAC, P06700A, PJB005-711, P060710, PJB001-711, P060712	VFD SHIELDED CABLE
PPS	001	711	P060711	#14	2/C	1	VFD-PPS001-711	PPS001-711CS	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, P060711	ESTOP
PPS	001	711	P-060713	#14	2/C	1	VFD-PPS001-711	PPPS001-711FSL	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, P060713	FLOW SWITCH
PPS	001	711	P-060714	#14	2/C	1	VFD-PPS001-711	PPS001-711SOV	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, P060713, P060714	SOLENOID VALVE
PPS	001	711	C-CSV001-711	#14	2/C	1	VFD-PPS001-711	CSV001-711	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, CCSV001-711	CHECK VALVE
PPS	001	711	C-KGV001-711	#14	2/C	1	VFD-PPS001-711	KGV001-711	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, CKGV001-711	KNIFE GATE VALVE
PPS	001	711	C-KGV007-711	#14	2/C	1	VFD-PPS001-711	KGV007-711	C060464, WT02-716, P060466, PT03-480VAC, C06700, PJB005-711, P060710, PJB001-711, CKGV007-711	KNIFE GATE VALVE
PPS	001	711	C-PPS001-711AF	#14	12/C	1	VFD-PPS001-711	DPU-038	C060464A	VFD TO DPU
PPS	002	711	P-PPS002-711AF	#4 & #8	3/C & GND	1	MCC-004	VFD-PPS002-711	P060451, WT01-716, P060458	MCC TO VFD
PPS	002	711	P060720	#4 & #12	3/C & GND	1	VFD-PPS002-711	PPS002-711	P060463, WT02-716, P060467A, PT03-480VAC, P06700A, PJB005-711, P060720, PJB002-711, P060722	VFD SHIELDED CABLE
PPS	002	711	P060721	#14	2/C					

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
PPS	001	712	P060810	#4 & #12	3/C & GND	1	VFD-PPS001-712	PPS001-712	P060460, WT02-716, P060470A, PT04-480VAC, P06800A, PJB005-712, P060810, PJB001-712, P060812	VFD SHIELDED CABLE
PPS	001	712	P060811	#14	2/C	1	VFD-PPS001-712	PPS001-712CS	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, P060811	ESTOP
PPS	001	712	P-060813	#14	2/C	1	VFD-PPS001-712	PPPS001-712FSL	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, P060813	FLOW SWITCH
PPS	001	712	P-060814	#14	2/C	1	VFD-PPS001-712	PPS001-712SOV	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, P060813, P060814	SOLENOID VALVE
PPS	001	712	C-CSV001-712	#14	2/C	1	VFD-PPS001-712	CSV001-712	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, CCSV001-712	CHECK VALVE
PPS	001	712	C-KGV001-712	#14	2/C	1	VFD-PPS001-712	KGV001-712	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, CKGV001-712	KNIFE GATE VALVE
PPS	001	712	C-KGV007-712	#14	2/C	1	VFD-PPS001-712	KGV003-712	C060460, WT02-716, P060470, PT04-480VAC, P06800, PJB005-712, P060810, PJB001-712, CKGV003-712	KNIFE GATE VALVE
PPS	001	712	C-PPS001-711AF	#14	12/C	1	VFD-PPS001-712	DPU-038	C060460A	VFD TO DPU
PPS	002	712	P-PPS002-712AF	#4 & #8	3/C & GND	1	MCC-005	VFD-PPS002-712	P060454, WT03-716, P060449	MCC TO VFD
PPS	002	712	P060820	#4 & #12	3/C & GND	1	VFD-PPS002-712	PPS002-712	P060471, WT02-716, P060472A, PT04-480VAC, P06800A, PJB005-712, P060820, PJB002-712, P060822	VFD SHIELDED CABLE
PPS	002	712	P060821	#14	2/C	1	VFD-PPS002-712	PPS002-712CS	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, P060821	ESTOP
PPS	002	712	P-060823	#14	2/C	1	VFD-PPS002-712	PPPS002-712FSL	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, P060823	FLOW SWITCH
PPS	002	712	P-060824	#14	2/C	1	VFD-PPS002-712	PPS002-712SOV	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, P060823, P060824	SOLENOID VALVE
PPS	002	712	C-CSV002-712	#14	2/C	1	VFD-PPS002-712	CSV002-712	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, CCSV002-712	CHECK VALVE
PPS	002	712	C-KGV002-712	#14	2/C	1	VFD-PPS002-712	KGV002-712	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, CKGV002-712	KNIFE GATE VALVE
PPS	002	712	C-KGV004-712	#14	2/C	1	VFD-PPS002-712	KGV004-712	C060471, WT02-716, P060472, PT04-480VAC, P06800, PJB005-712, P060820, PJB002-712, CKGV004-712	KNIFE GATE VALVE
PPS	002	712	C-PPS001-711AF	#14	12/C	1	VFD-PPS002-712	DPU-038	C060471A	VFD TO DPU
PTF	001	400	C-PTF001-400ZSO	#14	1/C	2	MCC045-400B	PTF001-400ZSO	CPTF001-400, CPTF001D-400	
PTF	001	400	P-PTF001-400	#10	1/C	4	MCC045-400B	PTF001-400MO	PPTF001-400, PPTF001A-400	Thickening Feed Tank Drain Pump
PTF	001	400	C-PTF001-400CS1	#14	12/C	1	MCC045-400B	PTF001-400CS1	CPTF001-400, CPTF001B-400	
PTF	001	400	C-PTF001-400CS2	#14	3/C	1	MCC045-400B	PTF001-400CS2	CPTF001-400,CPTF001C-400	
PTF	001	400	C-PTF001-400HTR	#14	1/C	2	MCC045-400B	PTF001-400HTR	CPTF001-400, CPTF001A-400	
PTF	001	400	C-PTF001-400	#14	19/C	2	DPU-P2EH	MCC045-400B	CMCC045-400B, CT-8, CT-1A, CP2EH-400	
PTF	001	400	C-PTF001A-400	#14	12/C	1	MCC045-400B	DPU-P2EH	CMCC045B-400, CT-1A, CP2EH-400	
PTS	001	400	I-PTS001-400AF	#16	2/C - T.S	2	PTS001-400AF	DPU-P1AD	I4024-400, I4028-400, I4029-400, I4030-400	
PTS	001	400	C-PTS001A-400AF	#14	3/C	1	PTS001-400AF	DPU-P2AD	CPTS001A-400, CT-2, CPTS-400	
PTS	001	400	C-PTS001B-400AF	#14	19/C	1	PTS001-400AF	DPU-P2EH	CPTS001A-400, CT-2, CPTS-400	
PTS	001	400	C-PTS001-400PSH	#14	2/C	1	PTS001-400CJB	PTS001-400PSH	CPTS001C-400, CPTS001E-400	Thickened Sludge Pump No. 1 Discharge High Pressure Swi
PTS	001	400	C-PTS001-400PSL	#14	2/C	1	PTS001-400CJB	PTS001-400PSL	CPTS001-400, CPTS001B-400	Thickened Sludge Pump No. 1 Suction Low Pressure Switch
PTS	001	400	P-PTS001-400	#8	4/C	1	PTS001-400AF	PTS001-400MO	PPTS001A-400AF, PT-15, PT-14, PT-19, PPTS001-400, PPTS001A-400	thickened sludge pump 1
PTS	001	400	C-PTS001-400	#14	12/C	1	PTS001-400AF	PTS001-400CJB	CPTS001A-400, CT-2, CT-6, CPTS001-400	
PTS	001	400	C-PTS001-400CS2	#14	1/C	4	PTS001-400CJB	PTS001-400CS2	CPTS001C-400, CPTS001D-400	
PTS	001	400	P-PTS001-400AF	#8	4/C	1	PTS001-400AF	MCC045-400A	PPTS001A-400AF, PT-15, PPTS001B-400AF	
PTS	001	400	P-PTS001-400FIT	#12	3/C	1	F400PTS001	IPP001-400	P4040-400,P4046-400, P4042-400, P4043-400, P4045-400	FIT POWER
PTS	001	400	I-PTS001-400FIT	#16	2/C T.S.	1	F400PTS001	DPU-P1EH	I4040-400, I4046-400, I4042-400, I4043, I4045-400	FIT ANALOG
PTS	002	400	I-PTS002-400AF	#16	2/C - T.S	2	PTS002-400AF	DPU-P1EH	I4025-400, I4028-400, I4029-400, I4030-400	
PTS	002	400	I-PTS002-400AF	#16	2/C - T.S	2	PTS002-400AF	DPU-P1AD	I4025-400, I4028-400, I4029-400, I4030-400	
PTS	002	400	C-PTS002A-400AF	#14	3/C	1	PTS002-400AF	DPU-P2AD	CPTS002A-400, CT-2, CPTS-400	
PTS	002	400	C-PTS002B-400AF	#14	19/C	1	PTS002-400AF	DPU-P1EH	CPTS002A-400, CT-2, CPTS-400	
PTS	002	400	C-PTS002-400PSH	#14	2/C	1	PTS002-400CJB	PTS002-400PSH	CPTS002C-400, CPTS002E-400	Thickened Sludge Pump No. 2 Discharge High Pressure Swi
PTS	002	400	C-PTS002-400PSL	#14	2/C	1	PTS002-400CJB	PTS002-400PSL	CPTS002-400, CPTS002B-400	Thickened Sludge Pump No. 2 Suction Low Pressure Switch
PTS	002	400	P-PTS002-400	#8	4/C	1	PTS002-400AF	PTS002-400MO	PPTS002A-400AF, PT-15, PT-14, PT-19, PPTS002-400, PPTS002A-400	thickened sludge pump 2
PTS	002	400	C-PTS002-400	#14	12/C	1	PTS002-400AF	PTS002-400CJB	CPTS002A-400,CT-2, CT-6, CPTS-400	
PTS	002	400	C-PTS002-400CS2	#14	1/C	4	PTS002-400CJB	PTS002-400CS2	CPTS002C-400, CPTS002D-400	
PTS	002	400	P-PTS002-400AF	#8	4/C	1	PTS002-400AF	MCC045-400B	PPTS002A-400AF, PT-15, PPTS002B-400AF	
PTS	002	400	P-PTS002-400FIT	#12	3/C	1	F400PTS002	IPP001-400	P4041-400, P4046-400, P4042-400, P4043-400, P4045-400	FIT POWER
PTS	002	400	I-PTS002-400FIT	#16	2/C T.S.	1	F400PTS002	DPU-P1EH	I4041-400, I4046-400, I4042-400, I4043, I4045-400	FIT ANALOG
PTS	003	400	I-PTS003-400AF	#16	2/C - T.S	2	PTS003-400AF	DPU-P1EH	I4026-400, I4029-400, I4030-400	
PTS	003	400	C-PTS003B-400AF	#14	19/C	1	PTS003-400AF	DPU-P2EH	CPTS003A-400,CT-2, CT-6, CPTS-400	
PTS	003	400	C-PTS003-400PSH	#14	2/C	1	PTS003-400CJB	PTS003-400PSH	CPTS003C-400, CPTS003E-400	Thickened Sludge Pump No. 3 Discharge High Pressure Swi
PTS	003	400	C-PTS003-400PSL	#14	2/C	1	PTS003-400CJB	PTS003-400PSL	CPTS003-400, CPTS003B-400	Thickened Sludge Pump No. 3 Suction Low Pressure Switch
PTS	003	400	P-PTS003-400	#8	4/C	1	PTS003-400AF	PTS003-400MO	PPTS003A-400AF, PT-15, PT-14 PT-19, PPTS003-400, PPTS003A-400	thickened sludge pump 3
PTS	003	400	C-PTS003-400	#14	12/C	1	PTS003-400AF	PTS003-400CJB	CPTS003A-400,CT-2, CT-6, CPTS003-400	
PTS	003	400	C-PTS003-400CS2	#14	1/C	4	PTS003-400CJB	PTS003-400CS2	CPTS003C-400, CPTS003D-400	
PTS	003	400	P-PTS003-400AF	#8	4/C	1	PTS003-400AF	MCC045-400A	PPTS003A-400AF, PT-15, PPTS003B-400AF	
PTS	004	400	I-PTS004-400AF	#16	2/C - T.S	2	PTS004-400AF	DPU-P1EH	I4027-400, I4030-400	
PTS	004	400	C-PTS004A-400AF	#14	3/C	1	PTS004-400AF	DPU-P2AD	CPTS004A-400,CT-2, CT-6, CPTS-400	
PTS	004	400	C-PTS004B-400AF	#14	19/C	1	PTS004-400AF	DPU-P1EH	CPTS004A-400,CT-2, CT-6, CPTS-400	
PTS	004	400	C-PTS004-400PSH	#14	2/C	1	PTS004-400CJB	PTS004-400PSH	CPTS004C-400, CPTS004E-400	Thickened Sludge Pump No. 4 Discharge High Pressure Swi
PTS	004	400	C-PTS004-400PSL	#14	2/C	1	PTS004-400CJB	PTS004-400PSL	CPTS004-400, CPTS004B-400	Thickened Sludge Pump No. 4 Suction Low Pressure Switch
PTS	004	400	P-PTS004-400	#8	4/C	1	PTS004-400AF	PTS004-400MO	PPTS004A-400AF, PT-15, PT-14, PT-19, PPTS004-400, PPTS004A-400	thickened sludge pump 4
PTS	004	400	C-PTS004-400	#14	12/C	1	PTS004-400AF	PTS004-400CJB	CPTS004A-400,CT-2, CT-6, CPTS004-400	
PTS	004	400	C-PTS004-400CS2	#14	1/C	4	PTS004-400CJB	PTS004-400CS2	CPTS004C-400, CPTS004D-400	
PTS	004	400	P-PTS004-400AF	#8	4/C	1	PTS004-400AF	MCC045-400B	PPTS004A-400AF, PT-15, PPTS004B-400AF	
TFM	001	400	C-TFM001-400	#14	19/C	1	MCC045-400A	TFM001-400CJB	CTFM001A-400, CT-1A, CT-6, CTFM001-400	
TFM	001	400	CTFM001-400HTR	#14	1/C	2	TFM001-400CJB	TFM001-400HTR	CTFM001-400A	

Designed by:
J. CROWLEY JR
Drawn by:
G. WARD
Checked by:
J. CROWLEY

REV No.	DATE	REVISION DESCRIPTION	APPV
1	9/25/24	REVISED PER ADDENDUM 4	

CDM
Smith

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PROFESSIONAL ENGINEER
JOSEPH D. CROWLEY
1024 7/12/24

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alleggheny county sanitary authority

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

000-E-015
ELECTRICAL
CABLE SCHEDULE XIII

Contract:
1799
CAD File Name:
000-E-015.DWG
Date:
07 / 11 / 2024
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Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
TFP	003	400	P-TFP003-400AF	#2	3/C&G	1	MCC045-400B	TFP003-400AF	PTFP003B-400, PT-15, PTFP003A-400	
TFP	003	400	I-TFP003-400AF	#16	2/C - T.S	3	TFP003AF-400	DPU-P1EH	I4052-400, I4058-400, I4059-400, I4062-400	
TFP	003	400	C-TFP003A-400AF	#14	3/C	1	TFP003AF-400	DPU-P2EH	CTFP003-400AF, CT-2,CTFP-400	
TFP	003	400	C-TFP003B-400AF	#14	19/C	1	TFP003AF-400	DPU-P1EH	CTFP003-400AF, CT-2,CTFP-400	
TFP	004	400	C-SOV004-400	#14	1/C	2	TFP004-400AF	SOV004-400	CTFP004-400,CTFP004B-400, CTFP004D-400, CTFP004F-400, CTFP004H-400, CTFP004K-400	
TFP	004	400	P-TFP004-400AF	#2	3/C&G	1	MCC045-400B	TFP004-400AF	PTFP004B-400, PT-15, PTFP004A-400	thickening feed pump 4
TFP	004	400	P-TFP004-400	#2	3/C&G	1	TFP004-400AF	TFP004-400MO	PTFP004-400, PTFP004A-400	thickening feed pump 4
TFP	004	400	C-TFP004-400CS2	#14	1/C	4	TFP004-400AF	TFP004-400CS2	CTFP004-400,CTFP004B-400, CTFP004D-400, CTFP004E-400	
TFP	004	400	C-TFP004-400FS	#14	1/C	4	TFP004-400AF	TFP004-400FS	CTFP004-400,CTFP004B-400, CTFP004D-400, CTFP004F-400, CTFP004G-400	
TFP	004	400	C-TFP004-400HTR	#14	1/C	2	TFP004-400AF	TFP004-400HTR	CTFP004-400,CTFP004B-400, CTFP004C-400	
TFP	004	400	C-TFP004-400TS	#14	1/C	2	TFP004-400AF	TFP004-400TS	CTFP004-400,CTFP004A-400, PTFP004-400	
TFP	004	400	C-TFP004-400ZSO	#14	1/C	2	TFP004-400AF	TFP004-400ZSO	CTFP004-400,CTFP004B-400, CTFP004D-400, CTFP004F-400, CTFP004H-400, CTFP004J-400	
TFP	004	400	I-TFP004-400AF	#16	2/C - T.S	2	TFP004AF-400	DPU-P1AD	I4053-400, I4059-400, I4062-400	
TFP	004	400	I-TFP004-400AF	#16	2/C - T.S	2	TFP004AF-400	DPU-P1EH	I4053-400, I4059-400, I4062-400	
TFP	004	400	C-TFP004A-400AF	#14	3/C	1	TFP004AF-400	DPU-P2EH	CTFP004-400AF, CT-2, CTFP-400	
TFP	004	400	C-TFP004B-400AF	#14	19/C	1	TFP004AF-400	DPU-P1EH	CTFP004-400AF, CT-2, CTFP-400	
TGB	001	400	P-TGB001A-400	#10
	3/C&G	1	TGB001-400CP	TGB001-400MO	PTGB001A-400	480V TO MOTOR
TGB	001	400	C-TGB001A-400	#14	19/C	1	TGB001-400CP	TGB001-400JB1	CTGB001A-400	DIGITAL SIGNALS
TGB	001	400	I-TGB001A-400	#16	2 TW. SH	4	TGB001-400CP	TGB001-400JB1	ITGB001A-400	ANALOG SIGNALS
TGB	001	400	P-TGB001B-400	#12	3/C	1	TGB001-400CP	TGB001-400JB1	PTGB001B-400	120V POWER
TGB	001	400	I-TGB001-400CP	ETHERNET		1	DPU-P1EH	TGB001-400CP	ITGB001-400, I4001-400, I4002-400, I4003-400, I4004-400, I4005-400, IP1EH-400	ETHERNET FROM CP TO DPU
TGB	001	400	C-TGB001-400CP	#14	19/C	1	DPU-P1EH	TGB001-400CP	CP1EH-400, CT-1A, CT-6, CTGB001-400	DIGITAL FROM CP TO DPU
TGB	001	400	C-TGB001A-400CP	#14	9/C	1	DPU-P2AD	TGB001-400CP	CP2AD-400, CT-1A, CT-6, CTGB001-400	DIGITAL FROM IP TO DPU
TGB	001	400	C-TGB001-400IP	#14	12/C	1	DPU-P1EH	TGB001-400IP	CP1EH-400, CT-1A, CT-6, CTGB001-400IP	DIGITAL FROM IP TO DPU
TGB	001	400	I-TGB001-400IP	#16	2 TW. SH	4	DPU-P1EH	TGB001-400IP	ITGB001IP-400, I4007-400, I4008-400, I4009-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM IP TO DPU
TGB	001	400	I-TGB001-400CP	#16	2 TW. SH	7	DPU-P1AD	TGB001-400CP	ITGB001CP-400, I4006-400, I4007-400, I4008-400, I4009-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1AD-400	ANALOG FROM CP TO DPU
TGB	001	400	P-TGB001A-400IP	#12	3/C	1	TGB001-400CP	TGB001-400IP	PTGB001IPA-400	120V POWER TO IP
TGB	001	400	P-TGB001BLV-400	#12	3/C	1	TGB001-400CP	TGB001BLV-400	PTGB001BLV-400	120V POWER TO BALL VALVE
TGB	001	400	P-PWB001-400	#12	3/C&G	1	TGB001-400CP	PWB001-400	PPWB001-400	480V POWER TO WATER BOOSTER PUMP
TGB	001	400	P-TGB001-400	#10
	3/C&G	1	TGB001-400CP	MCC045-400A	PTGB001-400, PT-19, PT-14, PTGB001A-400	480V TO CP
TGB	001	400	I-FTGB001A-400	#16	2/C TW SH	1	F400TGB001A	DPU-P1AD	I4030-400, I4019-400, I4020-400, I4021-400, I4022-400, I4023-400, IP1AD-400	ANALOG TO FIT
TGB	001	400	P-FTGB001A-400	#12	3/C&G	1	F400TGB001A	IPP-001-400	P4004-400, P4010-400, P-4011-400, P4012-400, P4013-400, P4014-400	120V POWER TO FIT
TGB	002	400	P-TGB002A-400	#10
	3/C&G	1	TGB002-400CP	TGB002-400MO	PTGB002A-400	480V TO MOTOR
TGB	002	400	C-TGB002A-400	#14	19/C	1	TGB002-400CP	TGB002-400JB1	CTGB002A-400	DIGITAL SIGNALS
TGB	002	400	I-TGB002A-400	#16	2 TW. SH	4	TGB002-400CP	TGB002-400JB1	ITGB002A-400	ANALOG SIGNALS
TGB	002	400	P-TGB002B-400	#12	3/C	1	TGB002-400CP	TGB002-400JB1	PTGB002B-400	120V POWER
TGB	002	400	I-TGB002-400CP	ETHERNET		1	DPU-P1EH	TGB002-400CP	ITGB002-400, I4001-400, I4002-400, I4003-400, I4004-400, I4005-400, IP1EH-400	ETHERNET FROM CP TO DPU
TGB	002	400	C-TGB002A-400CP	#14	9/C	1	DPU-P2AD	TGB001-400CP	CP2AD-400, CT-1A, CT-6, CTGB002-400	
TGB	005	400	P-TGB005A-400	#10
	3/C&G	1	TGB005-400CP	TGB005-400MO	PTGB005A-400	480V TO MOTOR
TGB	005	400	C-TGB005A-400	#14	19/C	1	TGB005-400CP	TGB005-400JB1	CTGB005A-400	DIGITAL SIGNALS
TGB	005	400	I-TGB005A-400	#16	2 TW. SH	4	TGB005-400CP	TGB005-400JB1	ITGB005A-400	ANALOG SIGNALS
TGB	005	400	P-TGB005B-400	#12	3/C	1	TGB005-400CP	TGB005-400JB1	PTGB005B-400	120V POWER
TGB	005	400	I-TGB005-400CP	ETHERNET		1	DPU-P1EH	TGB005-400CP	ITGB005-400, I4004-400, I4005-400, IP1EH-400	ETHERNET FROM CP TO DPU
TGB	005	400	C-TGB005A-400CP	#14	9/C	1	DPU-P2AD	TGB005-400CP	CP2AD-400, CT-1A, CT-6, CTGB005-400	
TGB	005	400	C-TGB005B-400CP	#14	19/C	1	DPU-P1EH	TGB005-400CP	CP1EH-400, CT-1A, CT-6, CTGB005-400	DIGITAL FROM CP TO DPU
TGB	005	400	C-TGB005-400IP	#14	12/C	1	DPU-P2EH	TGB005-400IP	CP2EH-400, CT-1A, CT-6, CTGB005-400IP	DIGITAL FROM IP TO DPU
TGB	005	400	I-TGB005-400IP	#16	2 TW. SH	4	DPU-P1EH	TGB005-400IP	ITGB005IP-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM IP TO DPU
TGB	005	400	I-TGB005A-400CP	#16	2 TW. SH	6	DPU-P1EH	TGB005-400CP	ITGB005CP-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM CP TO DPU
TGB	005	400	P-TGB005A-400IP	#12	3/C	1	TGB005-400CP	TGB005-400IP	PTGB005IPA-400	120V POWER TO IP
TGB	005	400	P-TGB005BLV-400	#12	3/C	1	TGB005-400CP	TGB005BLV-400	PTGB005BLV-400	120V POWER TO BALL VALVE
TGB	005	400	P-PWB005-400	#12	3/C&G	1	TGB005-400CP	PWB005-400	PPWB005-400	480V POWER TO WATER BOOSTER PUMP
TGB	005	400	P-TGB005-400	#10
	3/C&G	1	TGB005-400CP	MCC046-400A	PTGB005-400, PT-19, PT-14, PTGB005A-400	480V TO CP
TGB	006	400	P-TGB006A-400	#10
	3/C&G	1	TGB006-400CP	TGB006-400MO	PTGB006A-400	480V TO MOTOR
TGB	006	400	C-TGB006A-400	#14	19/C	1	TGB006-400CP	TGB006-400JB1	CTGB006A-400	DIGITAL SIGNALS
TGB	006	400	I-TGB006A-400	#16	2 TW. SH	4	TGB006-400CP	TGB006-400JB1	ITGB006A-400	ANALOG SIGNALS
TGB	006	400	P-TGB006B-400	#12	3/C	1	TGB006-400CP	TGB006-400JB1	PTGB006B-400	120V POWER
TGB	006	400	I-TGB006-400CP	ETHERNET		1	DPU-P1EH	TGB006-400CP	ITGB006-400, I4005-400, IP1EH-400	ETHERNET FROM CP TO DPU
TGB	006	400	C-TGB006A-400CP	#14	9/C	1	DPU-P2AD	TGB006-400CP	CP2AD-400, CT-1A, CT-6, CTGB006-400	
TGB	006	400	C-TGB006B-400CP	#14	12/C	1	DPU-P2EH	TGB006-400CP	CP2EH-400, CT-1A, CT-6, CTGB006-400	DIGITAL FROM CP TO DPU
TGB	006	400	C-TGB006-400IP	#14	12/C	1	DPU-P2EH	TGB006-400IP	CP2EH-400, CT-1A, CT-6, CTGB006-400IP	DIGITAL FROM IP TO DPU
TGB	006	400	I-TGB006-400IP	#16	2 TW. SH	2	DPU-P1EH	TGB006-400IP	ITGB006IP-400, I4016-400, IP1EH-400	ANALOG FROM IP TO DPU
TGB	006	400	I-TGB006A-400CP	#16	2 TW. SH	7	DPU-P1EH	TGB006-400CP	ITGB006CP-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM CP TO DPU
TGB	006	400	P-TGB006A-400IP	#12	3/C	1	TGB006-400CP	TGB006-400IP	PTGB006IPA-400	120V POWER TO IP
TGB	006	400	P-TGB006BLV-400	#12	3/C	1	TGB006-400CP	TGB006BLV-400	PTGB006BLV-400	120V POWER TO BALL VALVE
TGB	006	400	P-PWB006-400	#12	3/C&G	1	TGB006-400CP	PWB006-400	PPWB006-400	480V POWER TO WATER BOOSTER PUMP
TGB	006	400	P-TGB006-400	#10
	3/C&G	1	TGB006-400CP	MCC046-400A	PTGB006-400, PT-19, PT-14, PTGB006A-400	480V TO CP

Designed by: J. CROWLEY JR	REV No. 1	DATE 9/25/24	REVISION DESCRIPTION REVISED PER ADDENDUM 4	APPV
Drawn by: G. WARD				
Checked by: J. CROWLEY				

CDM
Smith

ONE ALLEGHENY SQUARE
NOVA TOWER 1, SUITE 200
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COMMONWEALTH OF
PENNSYLVANIA
PROFESSIONAL
ENGINEER
BY PERMIT
JOSEPH D. CROWLEY

7/12/24

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alleggheny county sanitary authority

www.alcosan.org

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

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PITTSBURGH, PA 15233
(412) 766 - 4810

ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT SOLIDS THICKENING AND DEWATERING IMPROVEMENTS		Contract: 1799
000-E-017 ELECTRICAL CABLE SCHEDULE XV		CAD File Name: 000-E-017.DWG
		Date: 07 / 11 / 2024
		Sheet: 369 of 440

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
TGB	002	400	C-TGB002B-400CP	#14	19/C	1	DPU-P1EH	TGB001-400CP	CP1EH-400, CT-1A, CT-6, CTGB002-400	DIGITAL FROM CP TO DPU
TGB	002	400	I-TGB002A-400CP	#16	2 TW. SH	3	DPU-P1AD	TGB002-400CP	ITGB002CP-400, I4007-400, I4008-400, I4009-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1AD-400	DIGITAL FROM IP TO DPU
TGB	002	400	C-TGB002-400IP	#14	12/C	1	DPU-P1EH	TGB002-400IP	CP1EH-400, CT-1A, CT-6, CTGB002-400IP	DIGITAL FROM IP TO DPU
TGB	002	400	I-TGB002-400IP	#16	2 TW. SH	4	DPU-P1EH	TGB002-400IP	ITGB002IP-400, I4008-400, I4009-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM IP TO DPU
TGB	002	400	I-TGB002A-400CP	#16	2 TW. SH	4	DPU-P1EH	TGB001-400CP	ITGB002CP-400, I4007-400, I4008-400, I4009-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM CP TO DPU
TGB	002	400	P-TGB002A-400IP	#12	3/C	1	TGB002-400CP	TGB002-400IP	PTGB002IPA-400	DIGITAL FROM IP TO CP
TGB	002	400	P-TGB002BLV-400	#12	3/C	1	TGB002-400CP	TGB002BLV-400	PTGB002BLV-400	120V POWER TO BALL VALVE
TGB	005	400	P-FTGB005A-400	#12	3/C&G	1	F400TGB005A	IPP-001-400	P4008-400, P4013-400, P4014-400	
TGB	005	400	I-FTGB005A-400	#16	2/C TW SH	1	F400TGB005A	DPU-P1EH	I4034-400, I4022-400, I4023-400, IP1EH-400	
TGB	006	400	P-FTGB006A-400	#12	3/C&G	1	F400TGB006A	IPP-001-400	P4009-400, P4014-400	
TGB	006	400	I-FTGB006A-400	#16	2/C TW SH	1	F400TGB006A	DPU-P1EH	I4035-400, I4023-400, IP1EH-400	
TGB	002	400	P-PWB002-400	#12	3/C&G	1	TGB002-400CP	PWB002-400	PPWB002-400	480V POWER TO WATER BOOSTER PUMP
TPS	013	400	C-L400PMT013ALS	#14	3/C	1	L400PMT013ALS	DPU-P2EH	CPMT013-400, CP2EH	
TPS	013	400	P-400PMT013LIT	#12	3/C	1	L400PMT013LIT	IPP001-400	PPMT013-400	
TPS	013	400	I-L400PMT011LIT	#16	2/C T.S.	1	L400PMT011LIT	DPU-P1EH	IPMT013-400, IP1EH	
TGB	002	400	P-TGB002-400	#10
	3/C&G	1	TGB002-400CP	MCC045-400B	PTGB002-400, PT-19, PT-14, PTGB002A-400	480V TO CP
TGB	002	400	P-FTGB002A-400	#12	3/C&G	1	F400TGB002A	IPP-001-400	P4005-400, P4010-400, P-4011-400, P4012-400, P4013-400, P4014-400	120V POWER TO FIT
TGB	002	400	I-TGB002A-400	#16	2/C TW SH	1	F400TGB002A	DPU-P1EH	I4031-400, I4019-400, I4020-400, I4021-400, I4022-400, I4023-400, IP1EH-400	ANALOG TO FIT
TGB	003	400	P-TGB003A-400	#10
	3/C&G	1	TGB003-400CP	TGB003-400MO	PTGB003A-400	480V TO MOTOR
TGB	003	400	C-TGB003A-400	#14	19/C	1	TGB003-400CP	TGB003-400JB1	CTGB003A-400	DIGITAL SIGNALS
TGB	003	400	I-TGB003A-400	#16	2 TW. SH	4	TGB003-400CP	TGB003-400JB1	ITGB003A-400	ANALOG SIGNALS
TGB	003	400	P-TGB003B-400	#12	3/C	1	TGB003-400CP	TGB003-400JB1	PTGB003B-400	120V POWER
TGB	003	400	I-TGB003-400CP	ETHERNET		1	DPU-P1EH	TGB003-400CP	ITGB003-400, I4002-400, I4003-400, I4004-400, I4005-400, IP1EH-400	ETHERNET FROM CP TO DPU
TGB	003	400	C-TGB003-400CP	#14	19/C	1	DPU-P1EH	TGB003-400CP	CP1EH-400, CT-1A, CT-6, CTGB003-400	DIGITAL FROM CP TO DPU
TGB	003	400	C-TGB003-400IP	#14	12/C	1	DPU-P1EH	TGB003-400IP	CP1EH-400, CT-1A, CT-6, CTGB003-400IP	DIGITAL FROM IP TO DPU
TGB	003	400	I-TGB003-400IP	#16	2 TW. SH	1	DPU-P1AD	TGB003-400IP	ITGB003IP-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1AD-400	
TGB	003	400	I-TGB003-400IP	#16	2 TW. SH	1	DPU-P1EH	TGB003-400IP	ITGB003IP-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM IP TO DPU
TGB	003	400	I-TGB003A-400CP	#16	2 TW. SH	7	DPU-P1EH	TGB003-400CP	ITGB003CP-400, I4009-400, I4010-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM CP TO DPU
TGB	003	400	P-TGB003A-400IP	#12	3/C	1	TGB003-400CP	TGB003-400IP	PTGB003IPA-400	120V POWER TO IP
TGB	003	400	P-TGB003BLV-400	#12	3/C	1	TGB003-400CP	TGB003BLV-400	PTGB003BLV-400	120V POWER TO BALL VALVE
TGB	003	400	P-PWB003-400	#12	3/C&G	1	TGB003-400CP	PWB003-400	PPWB003-400	480V POWER TO WATER BOOSTER PUMP
TGB	003	400	P-TGB003-400	#10
	3/C&G	1	TGB003-400CP	MCC045-400A	PTGB003-400, PT-19, PT-14, PTGB003A-400	480V TO CP
TGB	003	400	P-FTGB003A-400	#12	3/C&G	1	F400TGB003A	IPP-001-400	P4006-400, P-4011-400, P4012-400, P4013-400, P4014-400	
TGB	003	400	I-FTGB003A-400	#16	2/C TW SH	1	F400TGB003A	DPU-P1EH	I4032-400, I4020-400, I4021-400, I4022-400, I4023-400, IP1EH-400	
TGB	004	400	P-TGB004A-400	#10
	3/C&G	1	TGB004-400CP	TGB004-400MO	PTGB004A-400	480V TO MOTOR
TGB	004	400	C-TGB004A-400	#14	19/C	1	TGB004-400CP	TGB004-400JB1	CTGB004A-400	DIGITAL SIGNALS
TGB	004	400	I-TGB004A-400	#16	2 TW. SH	4	TGB004-400CP	TGB004-400JB1	ITGB004A-400	ANALOG SIGNALS
TGB	004	400	P-TGB004B-400	#12	3/C	1	TGB004-400CP	TGB004-400JB1	PTGB004B-400	120V POWER
TGB	004	400	I-TGB004-400CP	ETHERNET		1	DPU-P1EH	TGB004-400CP	ITGB004-400, I4003-400, I4004-400, I4005-400, IP1EH-400	ETHERNET FROM CP TO DPU
TGB	004	400	C-TGB004A-400CP	#14	9/C	1	DPU-P2EH	TGB004-400CP	CP2EH-400, CT-1A, CT-6, CTGB004-400	
TGB	004	400	C-TGB004B-400CP	#14	19/C	1	DPU-P1EH	TGB004-400CP	CP1EH-400, CT-1A, CT-6, CTGB004-400	DIGITAL FROM CP TO DPU
TGB	004	400	C-TGB004-400IP	#14	12/C	1	DPU-P1EH	TGB004-400IP	CP1EH-400, CT-1A, CT-6, CTGB004-400IP	DIGITAL FROM IP TO DPU
TGB	004	400	I-TGB004-400IP	#16	2 TW. SH	4	DPU-P1AD	TGB004-400IP	ITGB004IP-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM IP TO DPU
USS	015	400	P-USS015-400R1	#350 & #1/0	3/C & GND	1	USS015-400	USS015-400R1		
USS	015	400	P-USS015-400R2	#350 & #1/0	3/C & GND	1	USS015-400	USS015-400R2		
USS	028	400	P-USS028-400R1	#350 & #1/0	3/C & GND	1	USS028-400	USS028-400R1		
USS	028	400	P-USS028-400R2	#350 & #1/0	3/C & GND	1	USS028-400	USS028-400R2		
USS	015	400	C-USS015-400C1	#10	4/C	1	USS015-400	USS015-400C1		
USS	015	400	C-USS015-400C2	#10	4/C	1	USS015-400	USS015-400C2		
USS	028	400	C-USS028-400C1	#10	4/C	1	USS028-400	USS028-400C1		
USS	028	400	C-USS028-400C2	#10	4/C	1	USS028-400	USS028-400C2		
TGB	004	400	I-TGB004A-400CP	#16	2 TW. SH	2	DPU-P1AD	TGB004-400CP	ITGB004CP-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1AD-400	
TGB	004	400	I-TGB004B-400CP	#16	2 TW. SH	6	DPU-P1EH	TGB004-400CP	ITGB004CP-400, I4011-400, I4012-400, I4013-400, I4014-400, I4015-400, I4016-400, IP1EH-400	ANALOG FROM CP TO DPU
TGB	004	400	P-TGB004A-400IP	#12	3/C	1	TGB004-400CP	TGB004-400IP	PTGB004IPA-400	120V POWER TO IP
TGB	004	400	P-TGB004BLV-400	#12	3/C	1	TGB004-400CP	TGB004BLV-400	PTGB004BLV-400	120V POWER TO BALL VALVE
TGB	004	400	P-PWB004-400	#12	3/C&G	1	TGB004-400CP	PWB004-400	PPWB004-400	480V POWER TO WATER BOOSTER PUMP
TGB	004	400	P-TGB004-400	#10
	3/C&G	1	TGB004-400CP	MCC045-400B	PTGB004-400, PT-19, PT-14, PTGB004A-400	480V TO CP
TGB	004	400	P-FTGB004A-400	#12	3/C&G	1	F400TGB004A	IPP-001-400	P4007-400, P4012-400, P4013-400, P4014-400	
TGB	004	400	I-FTGB004A-400	#16	2/C TW SH	1	F400TGB004A	DPU-P1EH	I4033-400, I4021-400, I4022-400, I4023-400, IP1EH-400	
TSS	001	400	C-TSS001-400LSH	#14	1/C	2	DPU-P1EH	TSS001-400LSH	C4001, C4002, CP1EH-400	
TSS	001	400	I-TSS001-400LIT	#16	2/C T.S.	1	DPU-P1EH	TSS001-400LIT	I4042-400, I4043-400, I-4045-400, IP1EH-400	
TSS	001	400	P-TSS001-400LIT	#12	3/C	1	IPP-001	TSS001-400LIT	P4042-400, P4043-400, P4045-400	

Designed by: J. CROWLEY JR	REV No. 1	DATE 9/25/24	REVISION DESCRIPTION REVISED PER ADDENDUM 4	APPV
Drawn by: G. WARD				
Checked by: J. CROWLEY				

CDM
Smith

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

COMMONWEALTH OF
PENNSYLVANIA
PROFESSIONAL
ENGINEER
IN PENNSYLVANIA

JOSEPH D. CROWLEY
7/12/24

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EXECUTIVE DIRECTOR, ALCOSAN

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(412) 766 - 4810

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

000-E-018
ELECTRICAL
CABLE SCHEDULE XVI

Contract:
1799

CAD File Name:
000-E-018.DWG

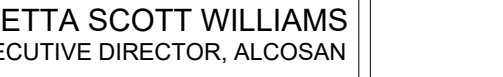
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07 / 11 / 2024

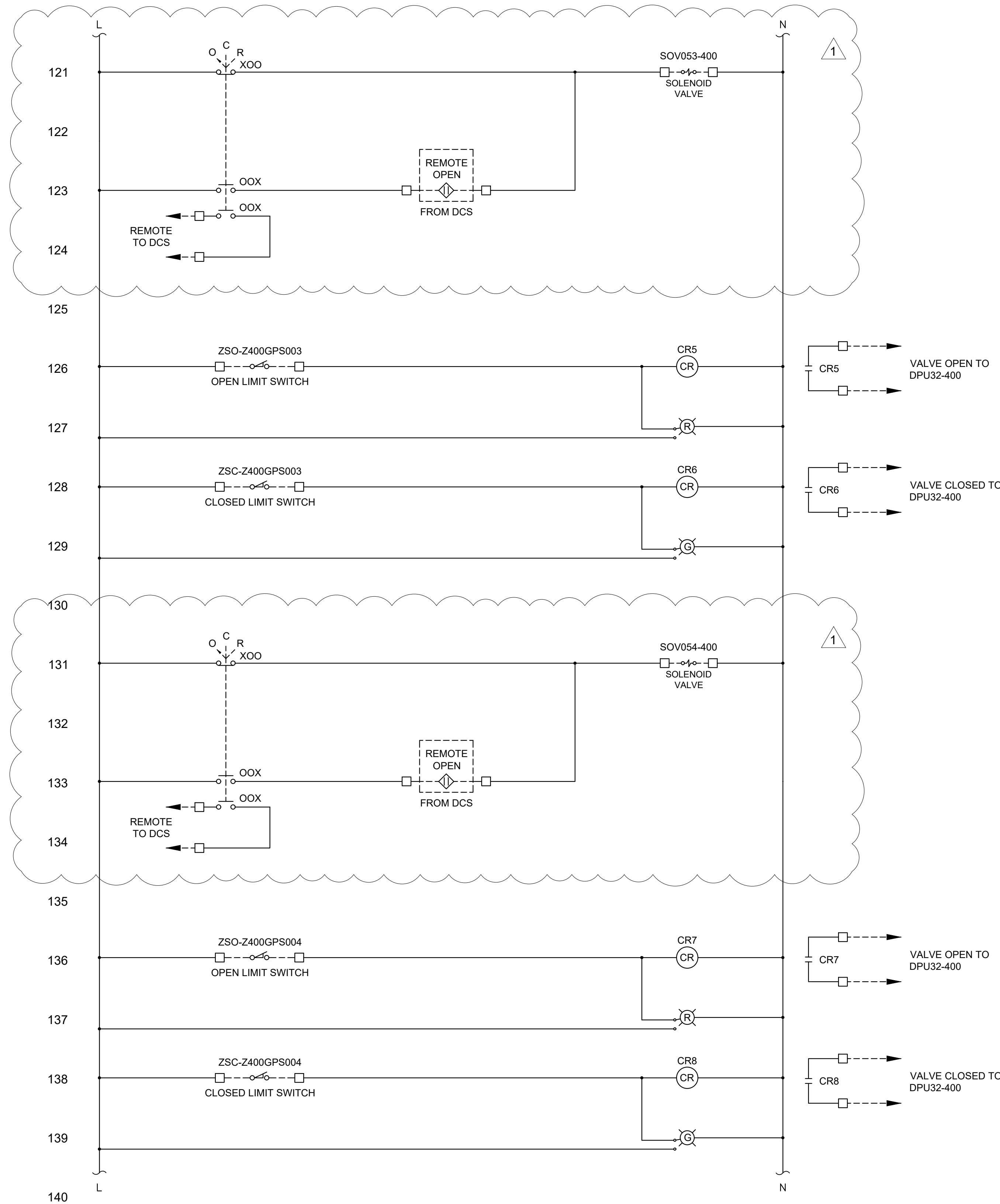
Sheet:
370 of 440

Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
TSS	002	400	C-TSS002-400LSH	#14	1/C	2	DPU-P1EH	TSS002-400LSH	C4003-400, C4002-400, CP1EH-400	
TSS	002	400	I-TSS002-400LIT	#16	2/C T.S.	1	DPU-P1AD	TSS002-400LIT	I4044-400, I4045-400, IP1AD-400	
TSS	002	400	P-TSS002-400LIT	#12	3/C	1	IPP-001	TSS002-400LIT	P4044-400, P4045-400	
TUNNEL	001	725	P-V725WSP001	#12	3/C & GND	1	PPVLV-725	V725WSP001	PV725WSP001	
TUNNEL	001	725	P-V725CST001	#12	3/C & GND	1	PPVLV-725	V725CST001	PV725CST001	
TUNNEL	001	725	P-V725PPS001	#12	3/C & GND	1	PPVLV-725	V725PPS001	PV725PPS001	
TUNNEL	001	725	C-V725WSP001	#14	15/C	1	DPU37-716	V725WSP001	CV725WSP001	
TUNNEL	001	725	C-V725CST001	#14	15/C	1	DPU37-716	V725CST001	CV725CST001	
TUNNEL	001	725	C-V725PPS001	#14	15/C	1	DPU37-716	V725PPS001	CV725PPS001	
TUNNEL	002	725	P-V725WSP002	#12	3/C & GND	1	PPVLV-725	V725WSP002	PV725WSP002	
TUNNEL	002	725	P-V725CST002	#12	3/C & GND	1	PPVLV-725	V725CST002	PV725CST002	
TUNNEL	002	725	P-V725PPS002	#12	3/C & GND	1	PPVLV-725	V725PPS002	PV725PPS002	
TUNNEL	002	725	C-V725WSP002	#14	15/C	1	DPU38-706	V725WSP002	CV725WSP002	
TUNNEL	002	725	C-V725CST002	#14	15/C	1	DPU37-716	V725CST002	CV725CST002	
TUNNEL	002	725	C-V725PPS002	#14	15/C	1	DPU37-716	V725PPS002	CV725PPS002	
TUNNEL	003	725	P-V725WSP003	#12	3/C & GND	1	PPVLV-725	V725WSP003	PV725WSP003	
TUNNEL	003	725	P-V725CST003	#12	3/C & GND	1	PPVLV-725	V725CST003	PV725CST003	
TUNNEL	003	725	P-V725PPS003	#12	3/C & GND	1	PPVLV-725	V725PPS003	PV725PPS003	
TUNNEL	003	725	C-V725WSP003	#14	15/C	1	DPU38-706	V725WSP003	CV725WSP003	
TUNNEL	003	725	C-V725CST003	#14	15/C	1	DPU38-706	V725CST003	CV725CST003	
TUNNEL	003	725	C-V725PPS003	#14	15/C	1	DPU38-706	V725PPS003	CV725PPS003	
TUNNEL	004	725	P-V725WSP004	#12	3/C & GND	1	PPVLV-725	V725WSP004	PV725WSP004	
TUNNEL	004	725	P-V725PPS004	#12	3/C & GND	1	PPVLV-725	V725PPS004	PV725PPS004	
TUNNEL	004	725	C-V725WSP004	#14	15/C	1	DPU37-716	V725WSP004	CV725WSP004	
TUNNEL	004	725	C-V725PPS004	#14	15/C	1	DPU38-706	V725PPS004	CV725PPS004	
WSP	001	831	P-WSP001-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP001-831AF	P-WSP001-831	MCC TO VFD
WSP	001	831	P-WSP001-831MO	#4 & #10	3/C & GND	1	WSP001-831AF	WSP001-831	PWSP001A-831, PT-112 480VAC, PWSP001B-831, JB-WSP001, PWSP001C-831	VFD SHIELDED CABLE
WSP	001	831	C-WSP001-831CS	#14	2/C	1	WSP001-831AF	WSP001-831CS	CWSP001-831, CT121-480VAC, CWSP001A-831, JB-WSP001, CWSP001B-831	ESTOP
WSP	001	831	C-WSP001-831FSL	#14	2/C	1	WSP001-831AF	WSP001-831FSL	CWSP001-831, CT121-480VAC, CWSP001A-831, JB-WSP001, CWSP001C-831	FLOW SWITCH
WSP	001	831	C-WSP001-831SOV	#14	2/C	1	WSP001-831AF	WSP001-831SOV	CWSP001-831, CT121-480VAC, CWSP001A-831, JB-WSP001, CWSP001D-831	SOLENOID VALVE
WSP	001	831	C-WSP001-831CSV	#14	2/C	1	WSP001-831AF	WSP001-831CSV	CWSP001-831, CT121-480VAC, CWSP001A-831, JB-WSP001, CWSP001E-831	CHECK VALVE
WSP	001	831	C-WSP001-831AF	#14	12/C	1	WSP001-831AF	DPU045-834	IWSP001-831, IJB-001A-824, IWSP001A-831	VFD TO DPU
WSP	002	831	P-WSP002-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP002-831AF	P-WSP002-831	MCC TO VFD
WSP	002	831	P-WSP002-831MO	#4 & #10	3/C & GND	1	WSP002-831AF	WSP002-831	PWSP002A-831, PT-112 480VAC, PWSP002B-831, JB-WSP002, PWSP002C-831	VFD SHIELDED CABLE
WSP	002	831	C-WSP002-831CS	#14	2/C	1	WSP002-831AF	WSP002-831CS	CWSP002-831, CT121-480VAC, CWSP002A-831, JB-WSP002, CWSP002B-831	ESTOP
WSP	002	831	C-WSP002-831FSL	#14	2/C	1	WSP002-831AF	WSP002-831FSL	CWSP002-831, CT121-480VAC, CWSP002A-831, JB-WSP002, CWSP002C-831	FLOW SWITCH
WSP	002	831	C-WSP002-831SOV	#14	2/C	1	WSP002-831AF	WSP002-831SOV	CWSP002-831, CT121-480VAC, CWSP002A-831, JB-WSP002, CWSP002D-831	SOLENOID VALVE
WSP	002	831	C-WSP002-831CSV	#14	2/C	1	WSP002-831AF	WSP002-831CSV	CWSP002-831, CT121-480VAC, CWSP002A-831, JB-WSP002, CWSP002E-831	CHECK VALVE
WSP	002	831	C-WSP002-831AF	#14	12/C	1	WSP002-831AF	DPU045-834	IWSP002-831, IJB-002A-824, IWSP002A-831	VFD TO DPU
WSP	003	831	P-WSP003-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP003-831AF	P-WSP003-831	MCC TO VFD
WSP	003	831	P-WSP003-831MO	#4 & #10	3/C & GND	1	WSP003-831AF	WSP003-831	PWSP003A-831, PT-112 480VAC, PWSP003B-831, JB-WSP003, PWSP003C-831	VFD SHIELDED CABLE
WSP	003	831	C-WSP003-831CS	#14	2/C	1	WSP003-831AF	WSP003-831CS	CWSP003-831, CT121-480VAC, CWSP003A-831, JB-WSP003, CWSP003B-831	ESTOP
WSP	003	831	C-WSP003-831FSL	#14	2/C	1	WSP003-831AF	WSP003-831FSL	CWSP003-831, CT121-480VAC, CWSP003A-831, JB-WSP003, CWSP003C-831	FLOW SWITCH
WSP	003	831	C-WSP003-831SOV	#14	2/C	1	WSP003-831AF	WSP003-831SOV	CWSP003-831, CT121-480VAC, CWSP003A-831, JB-WSP003, CWSP003D-831	SOLENOID VALVE
WSP	003	831	C-WSP003-831CSV	#14	2/C	1	WSP003-831AF	WSP003-831CSV	CWSP003-831, CT121-480VAC, CWSP003A-831, JB-WSP003, CWSP003E-831	CHECK VALVE
WSP	003	831	C-WSP003-831AF	#14	12/C	1	WSP003-831AF	DPU045-834	IWSP003-831, IJB-003A-824, IWSP003A-831	VFD TO DPU
WSP	004	831	P-WSP004-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP004-831AF	P-WSP004-831	MCC TO VFD
WSP	004	831	P-WSP004-831MO	#4 & #10	3/C & GND	1	WSP004-831AF	WSP004-831	PWSP004A-831, PT-112 480VAC, PWSP004B-831, JB-WSP004, PWSP004C-831	VFD SHIELDED CABLE
WSP	004	831	C-WSP004-831CS	#14	2/C	1	WSP004-831AF	WSP004-831CS	CWSP004-831, CT121-480VAC, CWSP004A-831, JB-WSP004, CWSP004B-831	ESTOP
WSP	004	831	C-WSP004-831FSL	#14	2/C	1	WSP004-831AF	WSP004-831FSL	CWSP004-831, CT121-480VAC, CWSP004A-831, JB-WSP004, CWSP004C-831	FLOW SWITCH
WSP	004	831	C-WSP004-831SOV	#14	2/C	1	WSP004-831AF	WSP004-831SOV	CWSP004-831, CT121-480VAC, CWSP004A-831, JB-WSP004, CWSP004D-831	SOLENOID VALVE
WSP	004	831	C-WSP004-831CSV	#14	2/C	1	WSP004-831AF	WSP004-831CSV	CWSP004-831, CT121-480VAC, CWSP004A-831, JB-WSP004, CWSP004E-831	CHECK VALVE
WSP	004	831	C-WSP004-831AF	#14	12/C	1	WSP004-831AF	DPU045-834	IWSP004-831, IJB-004A-824, IWSP004A-831	VFD TO DPU
WSP	005	821	P-WSP005-821AF	#4 & #10	3/C & GND	1	MCC-036	WSP005-821AF	P-WSP005-821	MCC TO VFD
WSP	005	821	P-WSP005-821MO	#4 & #10	3/C & GND	1	WSP005-821AF	WSP005-821	PWSP005A-821, PT-112 480VAC, PWSP005B-821, JB-WSP005, PWSP005C-821	VFD SHIELDED CABLE
WSP	005	821	C-WSP005-821CS	#14	2/C	1	WSP005-821AF	WSP005-821CS	CWSP005-821, CT121-480VAC, CWSP005A-821, JB-WSP005, CWSP005B-821	ESTOP
WSP	005	821	C-WSP005-821FSL	#14	2/C	1	WSP005-821AF	WSP005-821FSL	CWSP005-821, CT121-480VAC, CWSP005A-821, JB-WSP005, CWSP005C-821	FLOW SWITCH
WSP	005	821	C-WSP005-821SOV	#14	2/C	1	WSP005-821AF	WSP005-821SOV	CWSP005-821, CT121-480VAC, CWSP005A-821, JB-WSP005, CWSP005D-821	SOLENOID VALVE
WSP	005	821	C-WSP005-821CSV	#14	2/C	1	WSP005-821AF	WSP005-821CSV	CWSP005-821, CT121-480VAC, CWSP005A-821, JB-WSP005, CWSP005E-821	CHECK VALVE
WSP	005	821	C-WSP005-821AF	#14	12/C	1	WSP005-821AF	DPU042-824	IWSP005-821, IJB-005A-824, IWSP005A-821	VFD TO DPU
WSP	006	821	P-WSP006-821AF	#4 & #10	3/C & GND	1	MCC-036	WSP006-821AF	P-WSP006-821	MCC TO VFD
WSP	006	821	P-WSP006-821MO	#4 & #10	3/C & GND	1	WSP006-821AF	WSP006-821	PWSP006A-821, PT-112 480VAC, PWSP006B-821, JB-WSP006, PWSP006C-821	VFD SHIELDED CABLE
WSP	006	821	C-WSP006-821CS	#14	2/C	1	WSP006-821AF	WSP006-821CS	CWSP006-821, CT121-480VAC, CWSP006A-821, JB-WSP006, CWSP006B-821	ESTOP
WSP	006	821	C-WSP006-821FSL	#14	2/C	1	WSP006-821AF	WSP006-821FSL	CWSP006-821, CT121-4	

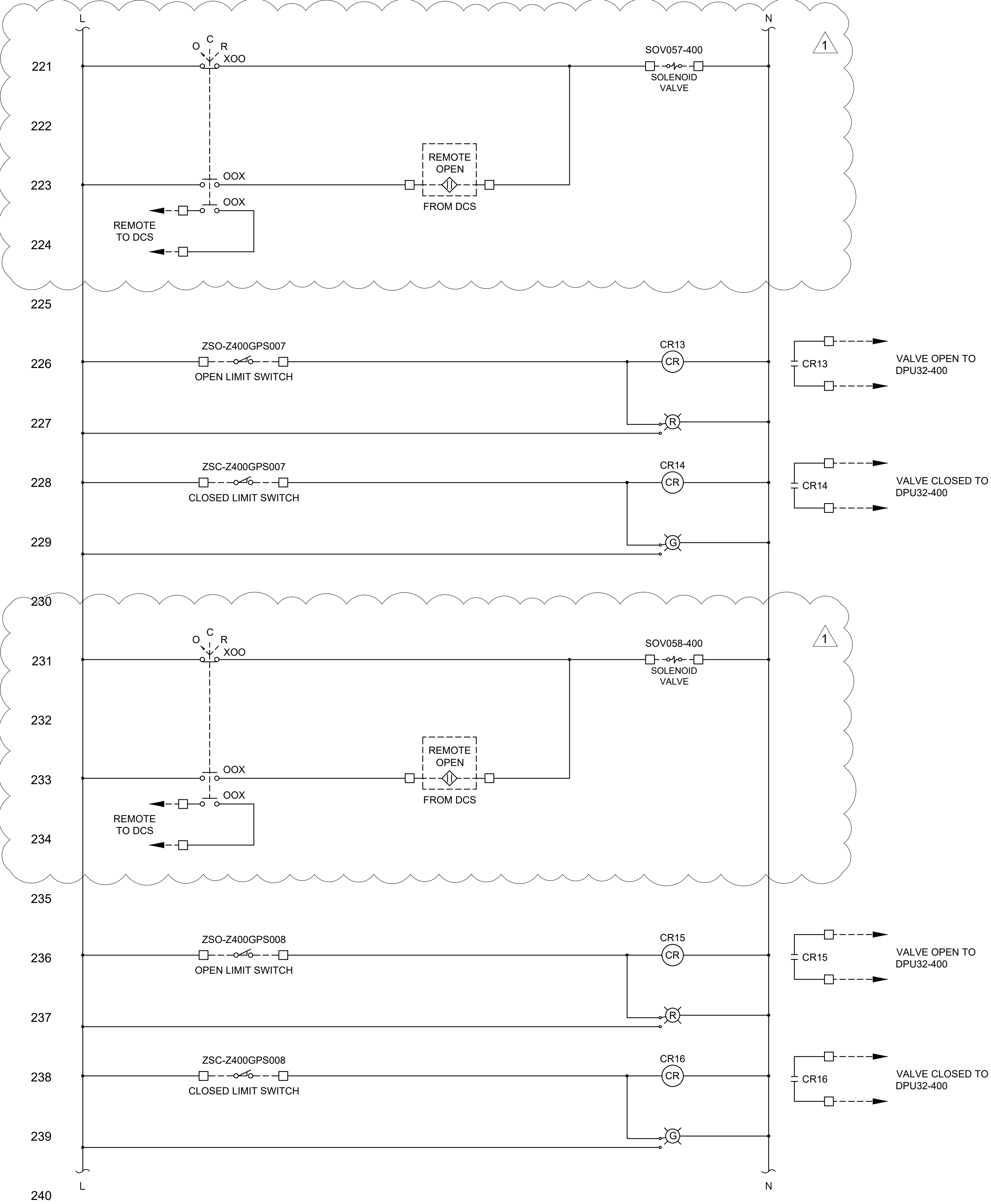
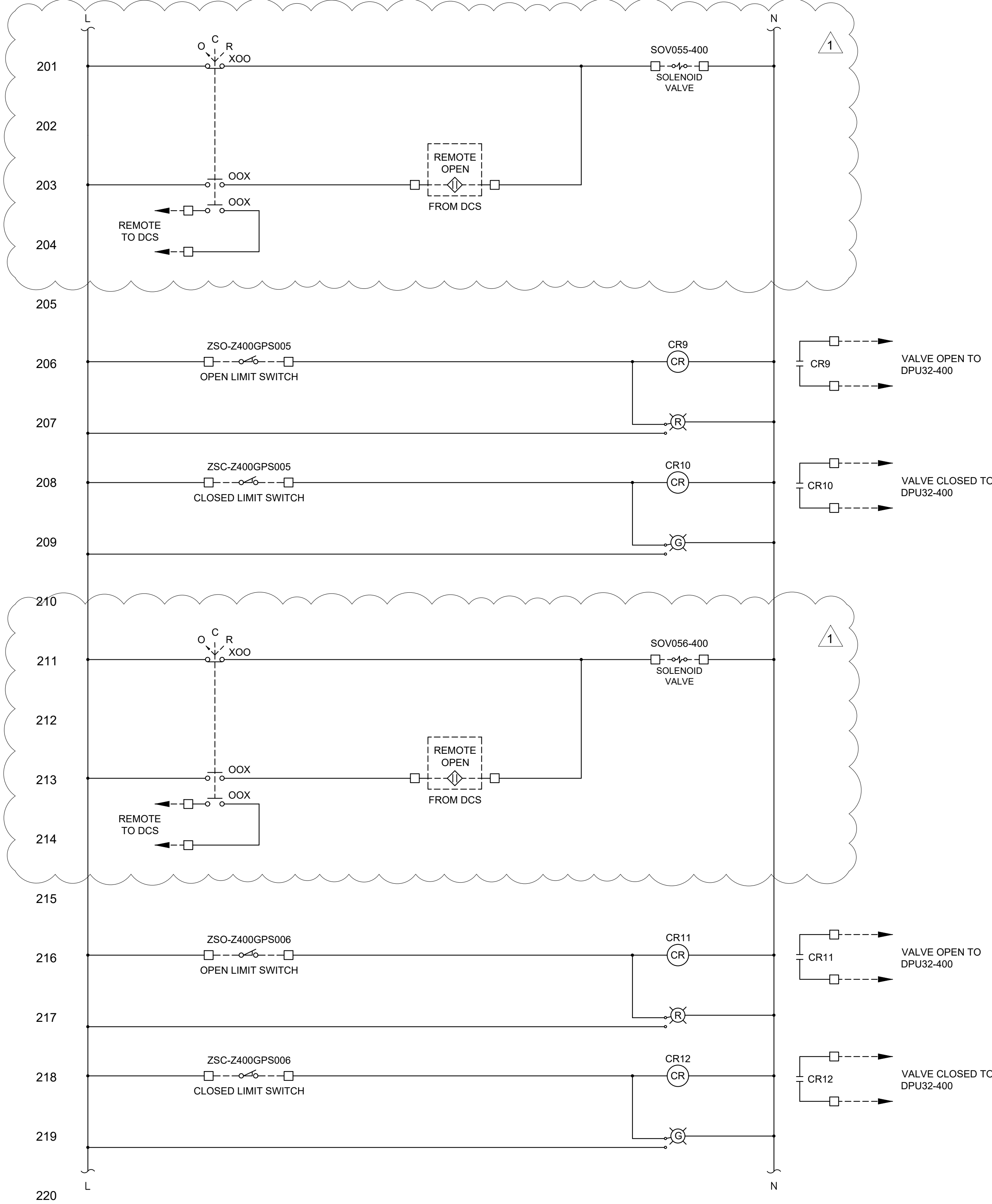
Device Prefix	Device Number	Area	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks
WSP	001	821	P-WSP001-821MO	#4 & #10	3/C & GND	1	WSP001-821AF	WSP001-821	PWSP001A-821, PT-112 480VAC, PWSP001B-821, JB-WSP001, PWSP001C-821	VFD SHIELDED CABLE
WSP	001	821	C-WSP001-821CS	#14	2/C	1	WSP001-821AF	WSP001-821CS	CWSP001-821, CT121-480VAC, CWSP001A-821, JB-WSP001, CWSP001B-821	ESTOP
WSP	001	821	C-WSP001-821FSL	#14	2/C	1	WSP001-821AF	WSP001-821FSL	CWSP001-821, CT121-480VAC, CWSP001A-821, JB-WSP001, CWSP001C-821	FLOW SWITCH
WSP	001	821	C-WSP001-821SOV	#14	2/C	1	WSP001-821AF	WSP001-821SOV	CWSP001-821, CT121-480VAC, CWSP001A-821, JB-WSP001, CWSP001D-821	SOLENOID VALVE
WSP	001	821	C-WSP001-821CSV	#14	2/C	1	WSP001-821AF	WSP001-821CSV	CWSP001-821, CT121-480VAC, CWSP001A-821, JB-WSP001, CWSP001E-821	CHECK VALVE
WSP	001	821	C-WSP001-821AF	#14	12/C	1	WSP001-821AF	DPU042-824	IWSP001-821, IJB-001A-824, IWSP001A-821	VFD TO DPU
WSP	002	821	P-WSP002-821AF	#4 & #10	3/C & GND	1	MCC-036	WSP002-821AF	P-WSP002-821	MCC TO VFD
WSP	002	821	P-WSP002-821MO	#4 & #10	3/C & GND	1	WSP002-821AF	WSP002-821	PWSP002A-821, PT-112 480VAC, PWSP002B-821, JB-WSP002, PWSP002C-821	VFD SHIELDED CABLE
WSP	002	821	C-WSP002-821CS	#14	2/C	1	WSP002-821AF	WSP002-821CS	CWSP002-821, CT121-480VAC, CWSP002A-821, JB-WSP002, CWSP002B-821	ESTOP
WSP	002	821	C-WSP002-821FSL	#14	2/C	1	WSP002-821AF	WSP002-821FSL	CWSP002-821, CT121-480VAC, CWSP002A-821, JB-WSP002, CWSP002C-821	FLOW SWITCH
WSP	002	821	C-WSP002-821SOV	#14	2/C	1	WSP002-821AF	WSP002-821SOV	CWSP002-821, CT121-480VAC, CWSP002A-821, JB-WSP002, CWSP002D-821	SOLENOID VALVE
WSP	002	821	C-WSP002-821CSV	#14	2/C	1	WSP002-821AF	WSP002-821CSV	CWSP002-821, CT121-480VAC, CWSP002A-821, JB-WSP002, CWSP002E-821	CHECK VALVE
WSP	002	821	C-WSP002-821AF	#14	12/C	1	WSP002-821AF	DPU042-824	IWSP002-821, IJB-002A-824, IWSP002A-821	VFD TO DPU
WSP	003	821	P-WSP003-821AF	#4 & #10	3/C & GND	1	MCC-036	WSP003-821AF	P-WSP003-821	MCC TO VFD
WSP	003	821	P-WSP003-821MO	#4 & #10	3/C & GND	1	WSP003-821AF	WSP003-821	PWSP003A-821, PT-112 480VAC, PWSP003B-821, JB-WSP003, PWSP003C-821	VFD SHIELDED CABLE
WSP	003	821	C-WSP003-821CS	#14	2/C	1	WSP003-821AF	WSP003-821CS	CWSP003-821, CT121-480VAC, CWSP003A-821, JB-WSP003, CWSP003B-821	ESTOP
WSP	003	821	C-WSP003-821FSL	#14	2/C	1	WSP003-821AF	WSP003-821FSL	CWSP003-821, CT121-480VAC, CWSP003A-821, JB-WSP003, CWSP003C-821	FLOW SWITCH
WSP	003	821	C-WSP003-821SOV	#14	2/C	1	WSP003-821AF	WSP003-821SOV	CWSP003-821, CT121-480VAC, CWSP003A-821, JB-WSP003, CWSP003D-821	SOLENOID VALVE
WSP	003	821	C-WSP003-821CSV	#14	2/C	1	WSP003-821AF	WSP003-821CSV	CWSP003-821, CT121-480VAC, CWSP003A-821, JB-WSP003, CWSP003E-821	CHECK VALVE
WSP	003	821	C-WSP003-821AF	#14	12/C	1	WSP003-821AF	DPU042-824	IWSP003-821, IJB-003A-824, IWSP003A-821	VFD TO DPU
WSP	004	821	P-WSP004-821AF	#4 & #10	3/C & GND	1	MCC-036	WSP004-821AF	P-WSP004-821	MCC TO VFD
WSP	004	821	P-WSP004-821MO	#4 & #10	3/C & GND	1	WSP004-821AF	WSP004-821	PWSP004A-821, PT-112 480VAC, PWSP004B-821, JB-WSP004, PWSP004C-821	VFD SHIELDED CABLE
WSP	004	821	C-WSP004-821CS	#14	2/C	1	WSP004-821AF	WSP004-821CS	CWSP004-821, CT121-480VAC, CWSP004A-821, JB-WSP004, CWSP004B-821	ESTOP
WSP	004	821	C-WSP004-821FSL	#14	2/C	1	WSP004-821AF	WSP004-821FSL	CWSP004-821, CT121-480VAC, CWSP004A-821, JB-WSP004, CWSP004C-821	FLOW SWITCH
WSP	004	821	C-WSP004-821SOV	#14	2/C	1	WSP004-821AF	WSP004-821SOV	CWSP004-821, CT121-480VAC, CWSP004A-821, JB-WSP004, CWSP004D-821	SOLENOID VALVE
WSP	004	821	C-WSP004-821CSV	#14	2/C	1	WSP004-821AF	WSP004-821CSV	CWSP004-821, CT121-480VAC, CWSP004A-821, JB-WSP004, CWSP004E-821	CHECK VALVE
WSP	004	821	C-WSP004-821AF	#14	12/C	1	WSP004-821AF	DPU042-824	IWSP004-821, IJB-004A-824, IWSP004A-821	VFD TO DPU
WSP	005	831	P-WSP005-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP005-831AF	P-WSP005-831	MCC TO VFD
WSP	005	831	P-WSP005-831MO	#4 & #10	3/C & GND	1	WSP005-831AF	WSP005-831	PWSP005A-831, PT-112 480VAC, PWSP005B-831, JB-WSP005, PWSP005C-831	VFD SHIELDED CABLE
WSP	005	831	C-WSP005-831CS	#14	2/C	1	WSP005-831AF	WSP005-831CS	CWSP005-831, CT121-480VAC, CWSP005A-831, JB-WSP005, CWSP005B-831	ESTOP
WSP	005	831	C-WSP005-831FSL	#14	2/C	1	WSP005-831AF	WSP005-831FSL	CWSP005-831, CT121-480VAC, CWSP005A-831, JB-WSP005, CWSP005C-831	FLOW SWITCH
WSP	005	831	C-WSP005-831SOV	#14	2/C	1	WSP005-831AF	WSP005-831SOV	CWSP005-831, CT121-480VAC, CWSP005A-831, JB-WSP005, CWSP005D-831	SOLENOID VALVE
WSP	005	831	C-WSP005-831CSV	#14	2/C	1	WSP005-831AF	WSP005-831CSV	CWSP005-831, CT121-480VAC, CWSP005A-831, JB-WSP005, CWSP005E-831	CHECK VALVE
WSP	005	831	C-WSP005-831AF	#14	12/C	1	WSP005-831AF	DPU045-834	IWSP005-831, IJB-005A-824, IWSP005A-831	VFD TO DPU
WSP	006	831	P-WSP006-831AF	#4 & #10	3/C & GND	1	MCC-037	WSP006-831AF	P-WSP006-831	MCC TO VFD
WSP	006	831	P-WSP006-831MO	#4 & #10	3/C & GND	1	WSP006-831AF	WSP006-831	PWSP006A-831, PT-112 480VAC, PWSP006B-831, JB-WSP006, PWSP006C-831	VFD SHIELDED CABLE
WSP	006	831	C-WSP006-831CS	#14	2/C	1	WSP006-831AF	WSP006-831CS	CWSP006-831, CT121-480VAC, CWSP006A-831, JB-WSP006, CWSP006B-831	ESTOP
WSP	006	831	C-WSP006-831FSL	#14	2/C	1	WSP006-831AF	WSP006-831FSL	CWSP006-831, CT121-480VAC, CWSP006A-831, JB-WSP006, CWSP006C-831	FLOW SWITCH
WSP	006	831	C-WSP006-831SOV	#14	2/C	1	WSP006-831AF	WSP006-831SOV	CWSP006-831, CT121-480VAC, CWSP006A-831, JB-WSP006, CWSP006D-831	SOLENOID VALVE
WSP	006	831	C-WSP006-831CSV	#14	2/C	1	WSP006-831AF	WSP006-831CSV	CWSP006-831, CT121-480VAC, CWSP006A-831, JB-WSP006, CWSP006E-831	CHECK VALVE
WSP	006	831	C-WSP006-831AF	#14	12/C	1	WSP006-831AF	DPU045-834	IWSP006-831, IJB-006A-824, IWSP006A-831	VFD TO DPU

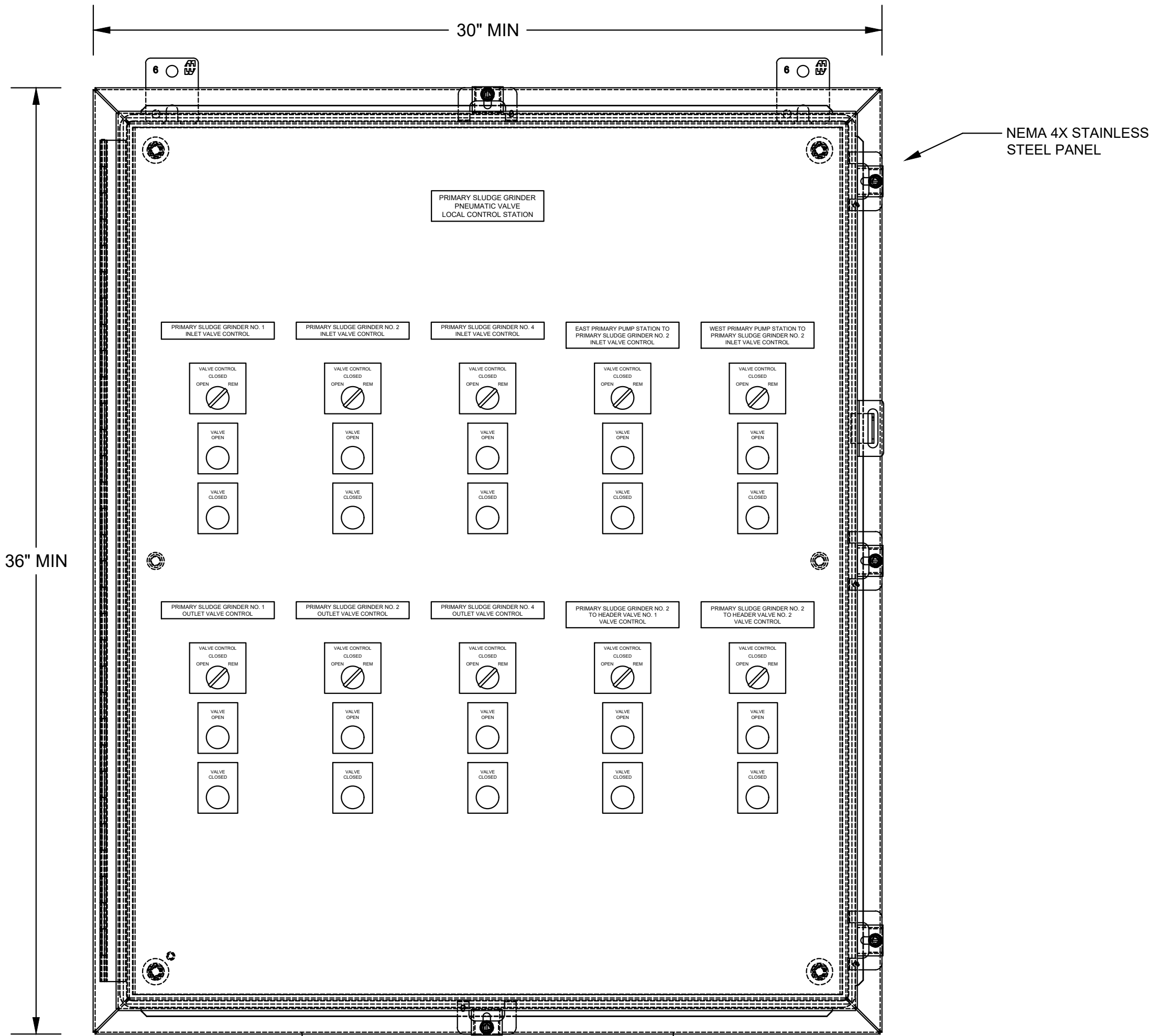
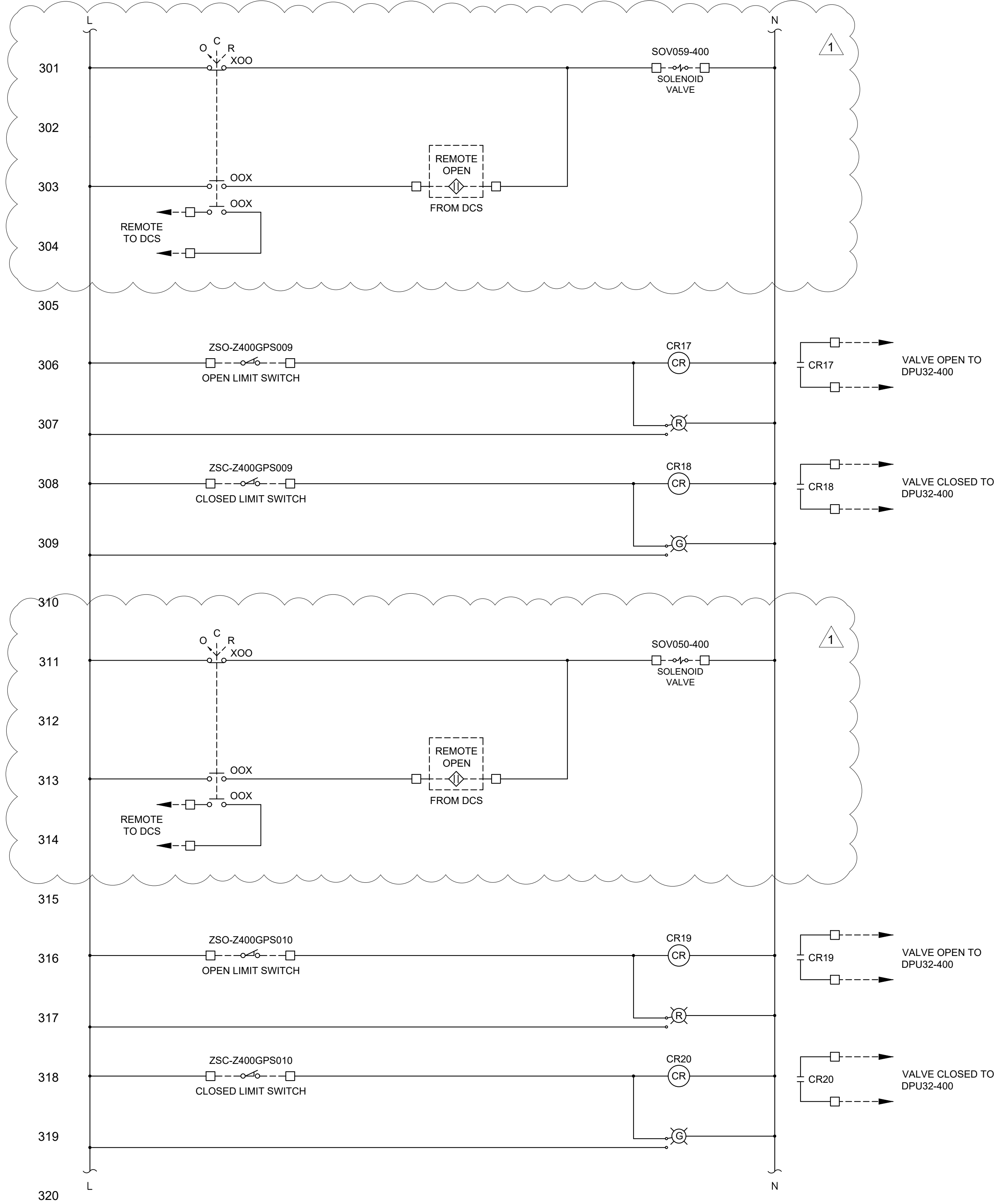


Designed by:	REVISION				 ONE ALLEGHENY SQUARE NOVA TOWER 1, SUITE 200 PITTSBURGH, PA 15212 TEL: (412) 201-5500			ARLETTA SCOTT WILLIAMS EXECUTIVE DIRECTOR, ALCOSAN 3300 PREBLE AVE. PITTSBURGH, PA 15233 (412) 766 - 4810 www.alcosan.org	ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT SOLIDS THICKENING AND DEWATERING IMPROVEMENTS	Contract: 1799
J. CROWLEY JR	REV No. 	DATE 9/25/24	DESCRIPTION REVISED PER ADDENDUM 4	APPV					CAD File Name: 000-E-020.DWG	
Drawn by:									Date: 07 / 11 / 2024	
G. WARD									Sheet: 372 of 440	
Checked by:										
J. CROWLEY										



Designed by:	<table><tr><th>REV No.</th><th>DATE</th><th>REVISION DESCRIPTION</th><th>APPV</th></tr><tr><td>1</td><td>9/24</td><td>ADDENDUM NO. 4</td><td>ALK</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>				REV No.	DATE	REVISION DESCRIPTION	APPV	1	9/24	ADDENDUM NO. 4	ALK																					CDM Smith ONE ALLEGHENY SQUARE NOVA TOWER 1, SUITE 200 PITTSBURGH, PA 15212 TEL: (412) 201-5500		 7-11-2024	 alcosan allegHENY 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 000-ID-005 PRIMARY SLUDGE GRINDER PNEUMATIC VALVE CONTROL DIAGRAM I	Contract: 1795 CAD File Name: 000-ID-005.DWG Date: 07 / 11 / 2024 Sheet: 387 of 440
REV No.	DATE	REVISION DESCRIPTION	APPV																																			
1	9/24	ADDENDUM NO. 4	ALK																																			
A. KLOPP																																						
Drawn by:																																						
J. COONEY																																						
Checked by:																																						
A. KLOPP																																						

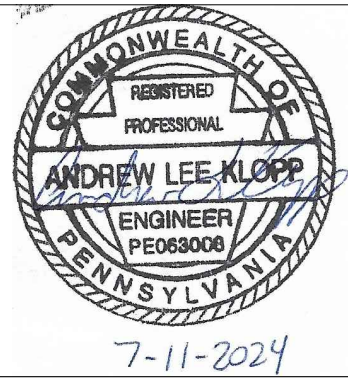




NOTES:
1. GENERAL PANEL LAYOUT SHOWN, REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.

Designed by:	REVISION			
A. KLOPP	REV No.	DATE	DESCRIPTION	APPV
Drawn by:	1	9/24	ADDENDUM NO. 4	ALK
J. COONEY				
Checked by:				
A. KLOPP				

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

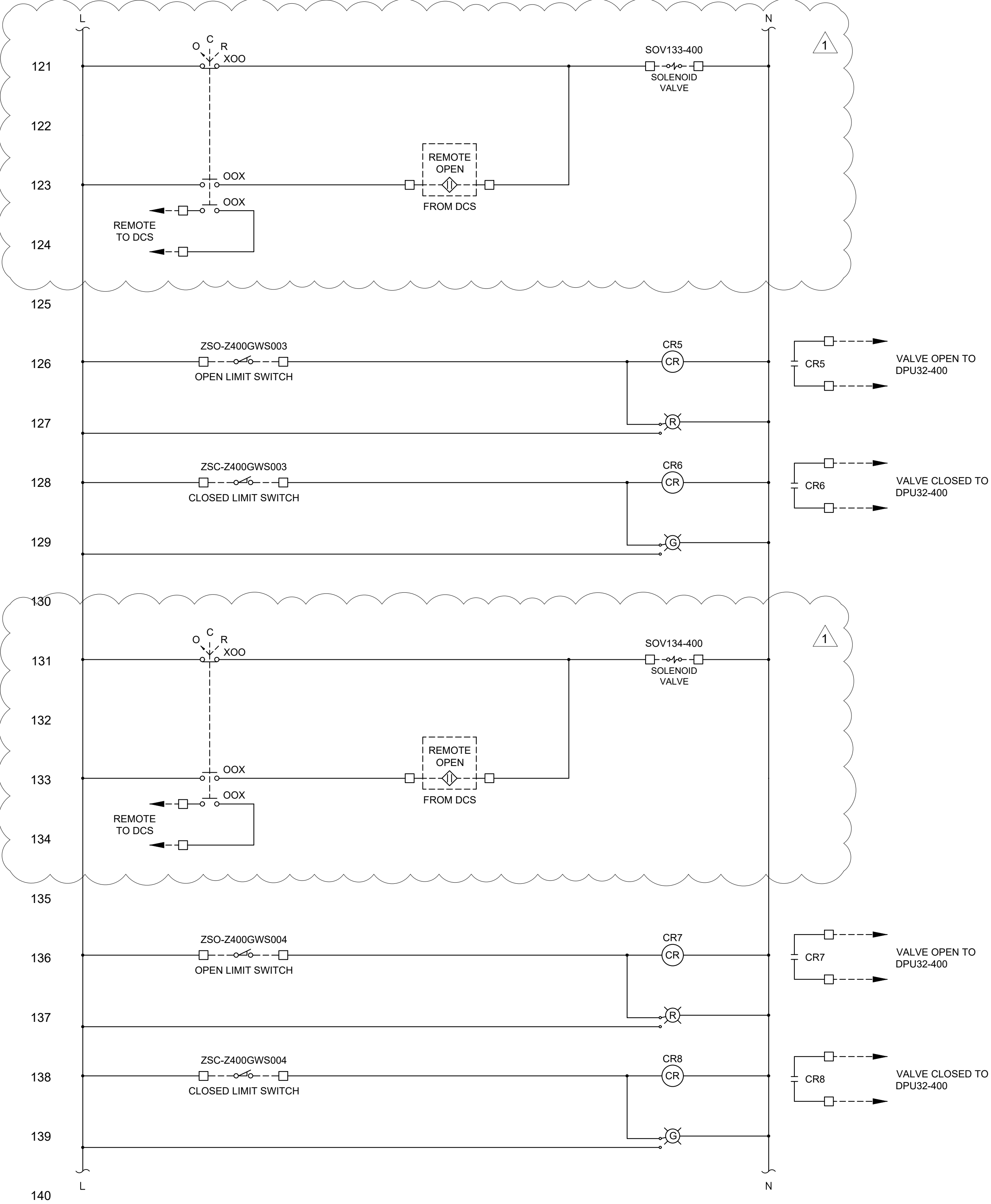
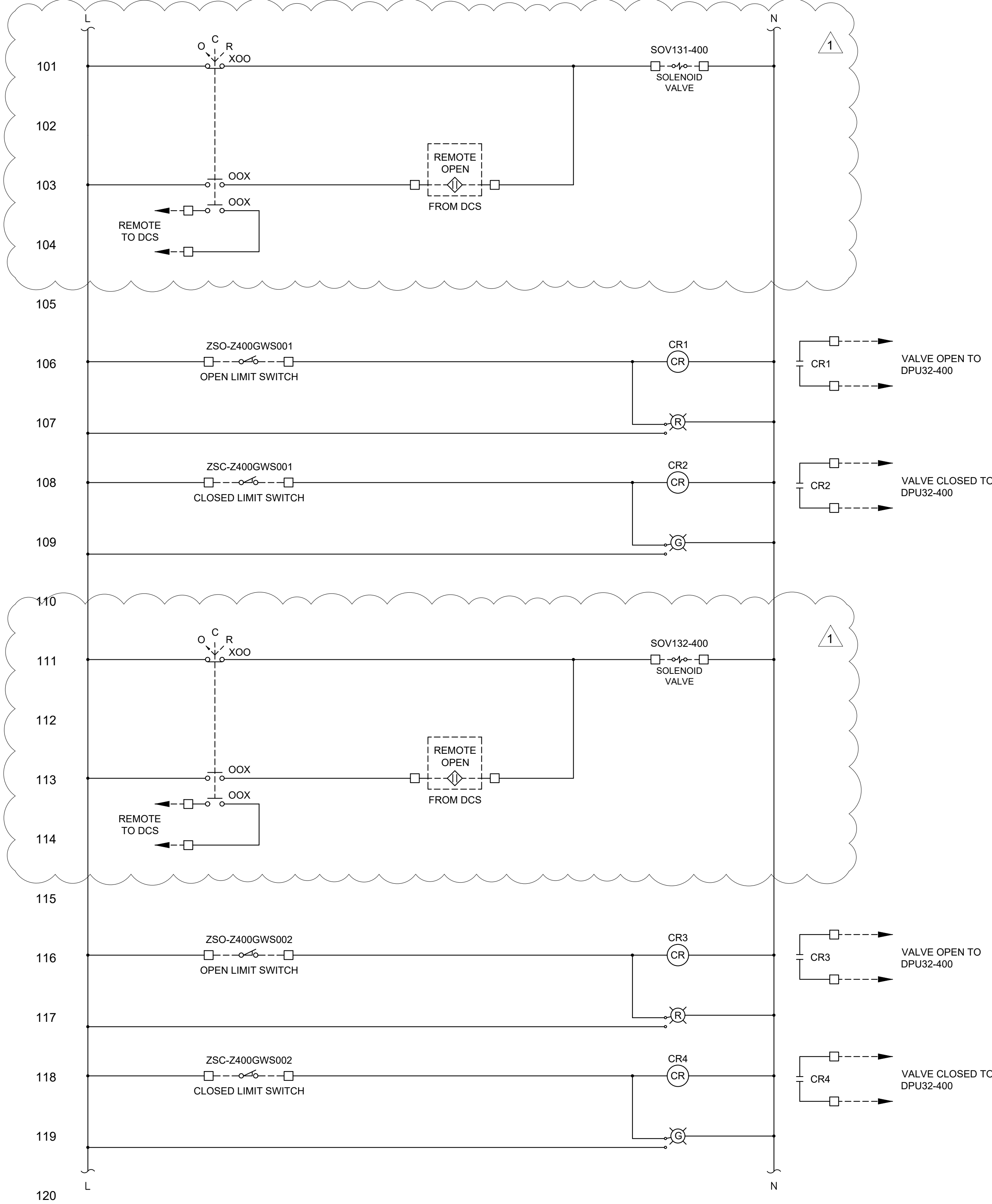


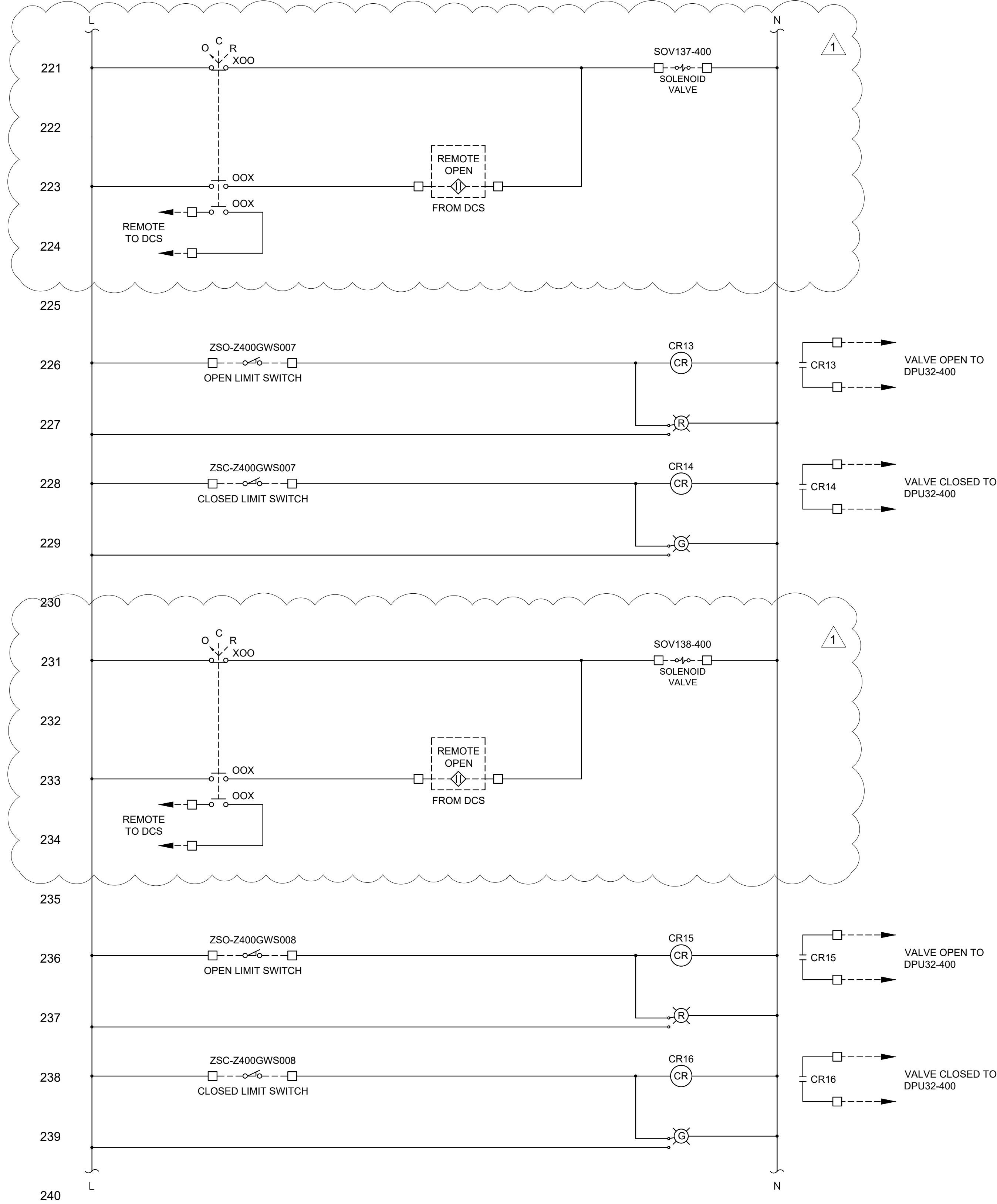
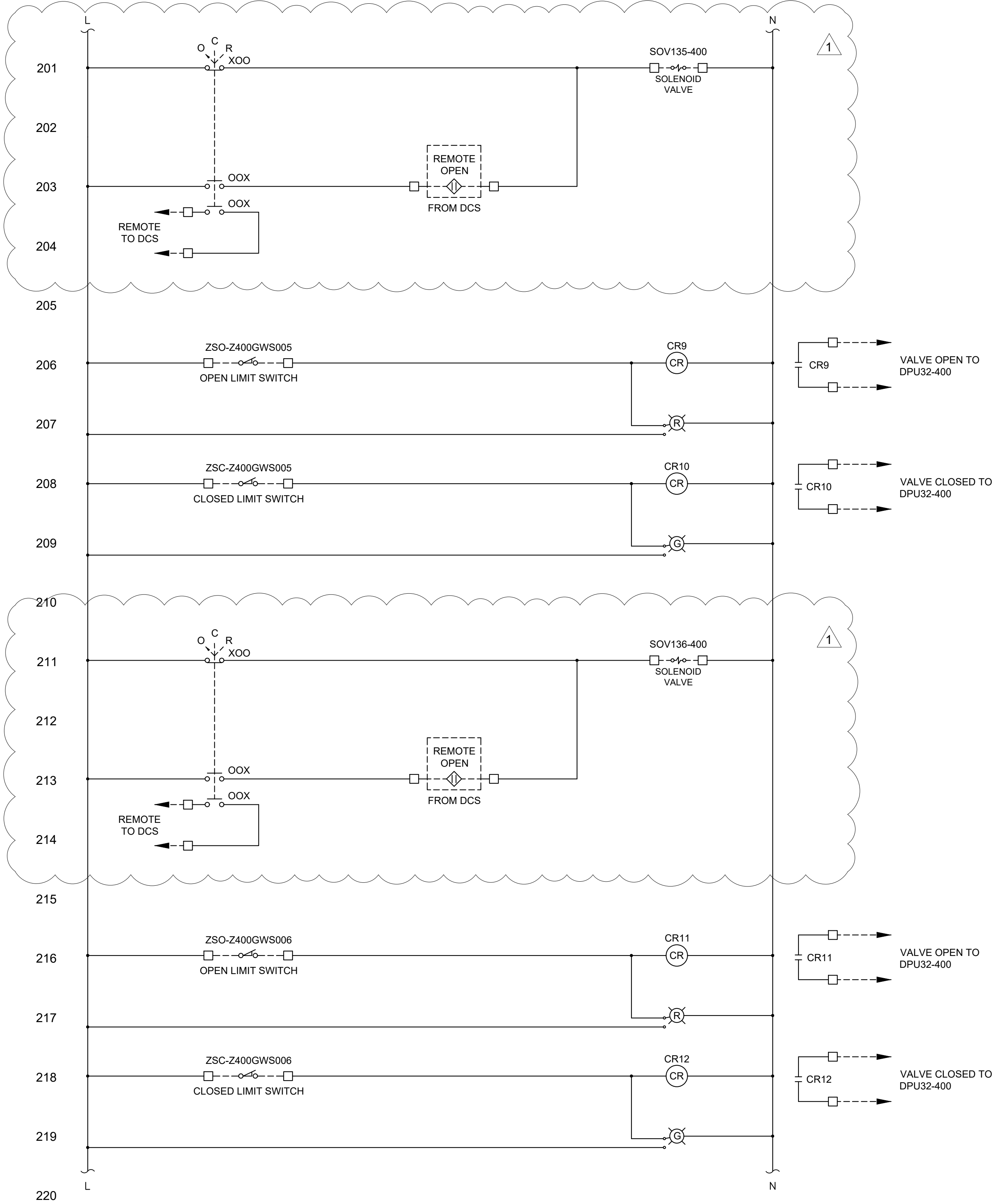
ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

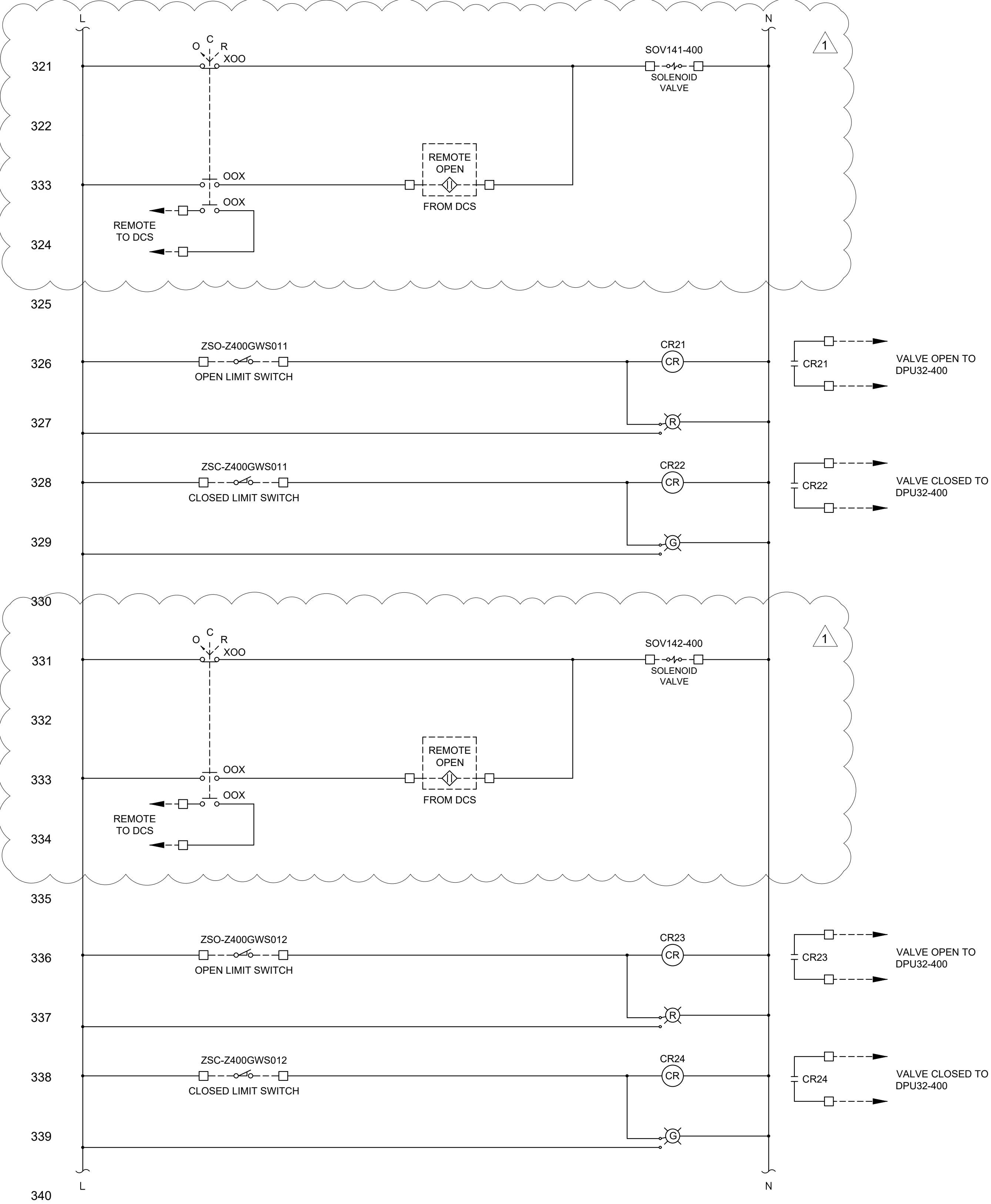
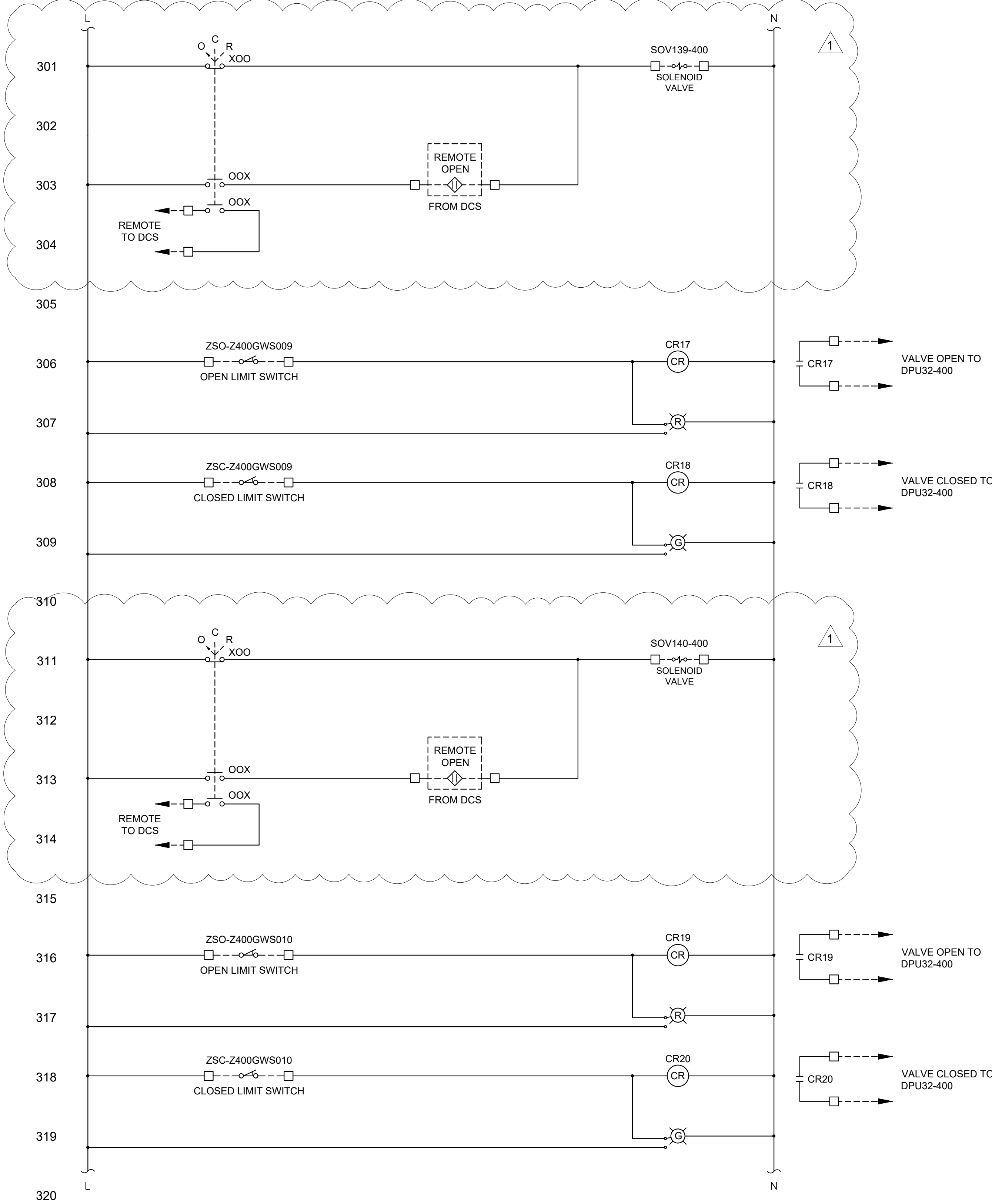
3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

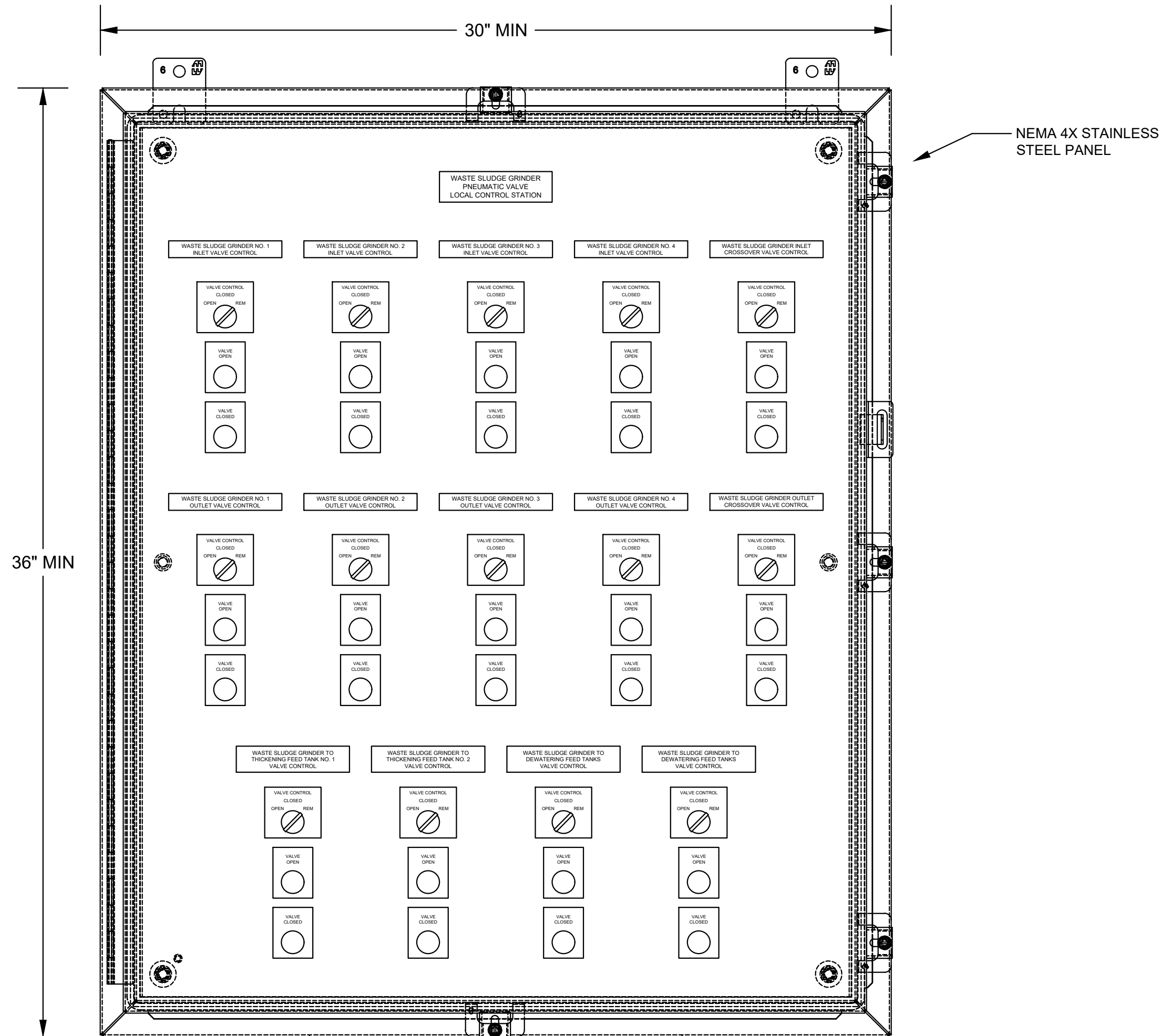
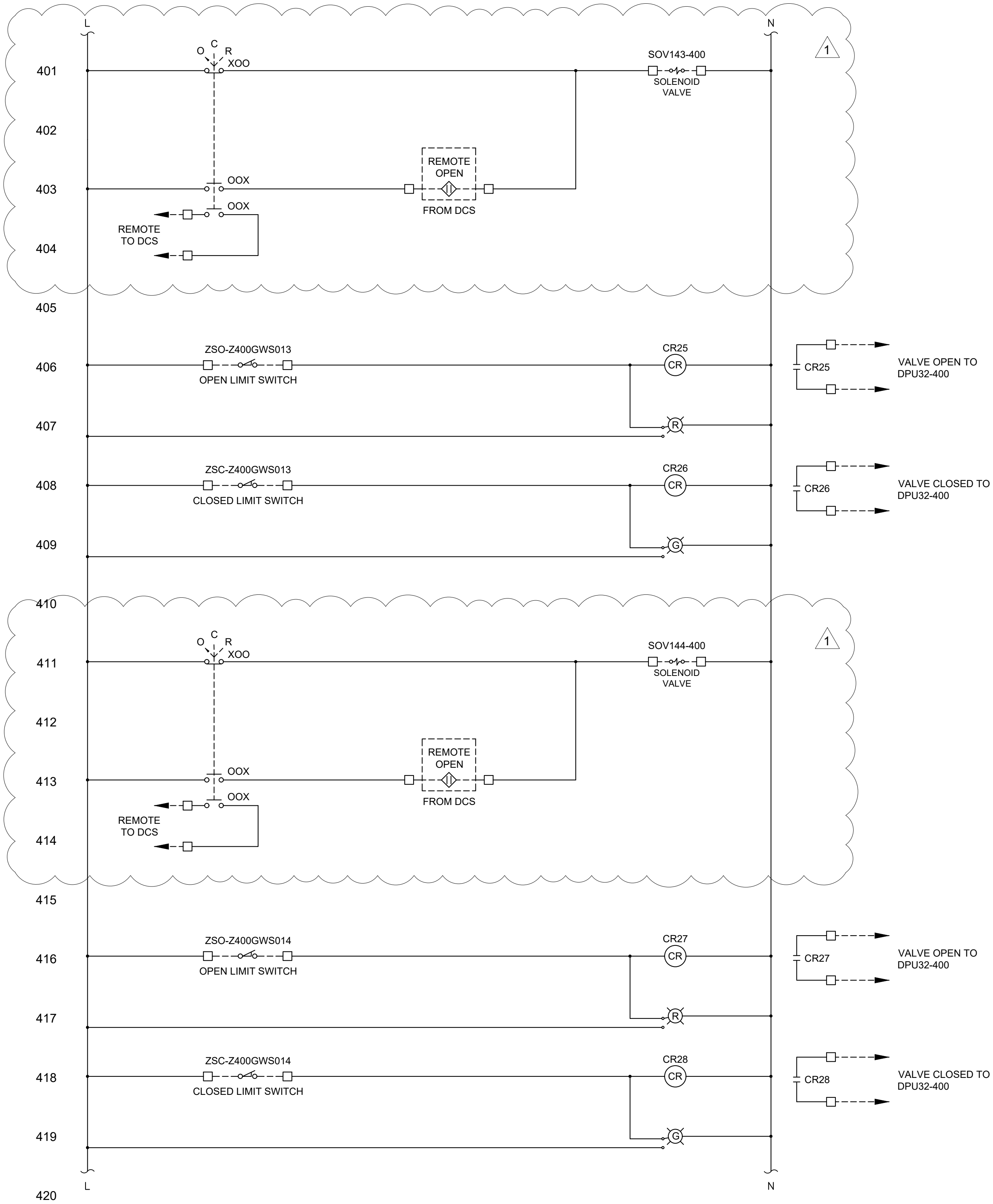
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ALLEGHENY COUNTY SANITARY AUTHORITY WASTEWATER TREATMENT PLANT SOLIDS THICKENING AND DEWATERING IMPROVEMENTS		Contract: 1799
000-ID-007 PRIMARY SLUDGE GRINDER PNEUMATIC VALVE CONTROL DIAGRAM III		CAD File Name: 000-ID-007.DWG
		Date: 07 / 11 / 2024
		Sheet: 389 of 440





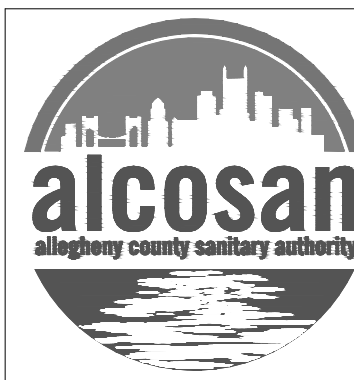
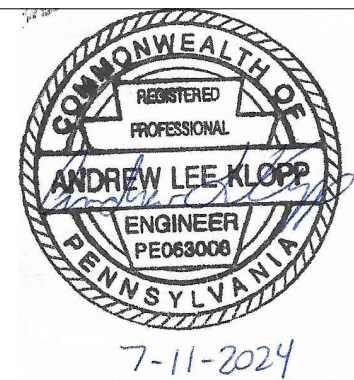




NOTES:
1. GENERAL PANEL LAYOUT SHOWN, REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.

Designed by:	REVISION			
A. KLOPP	REV No.	DATE	DESCRIPTION	APPV
Drawn by:	1	9/24	ADDENDUM NO. 4	ALK
J. COONEY				
Checked by:				
A. KLOPP				

**CDM
Smith**
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NOVA TOWER 1, SUITE 200
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EXECUTIVE DIRECTOR, ALCOSAN

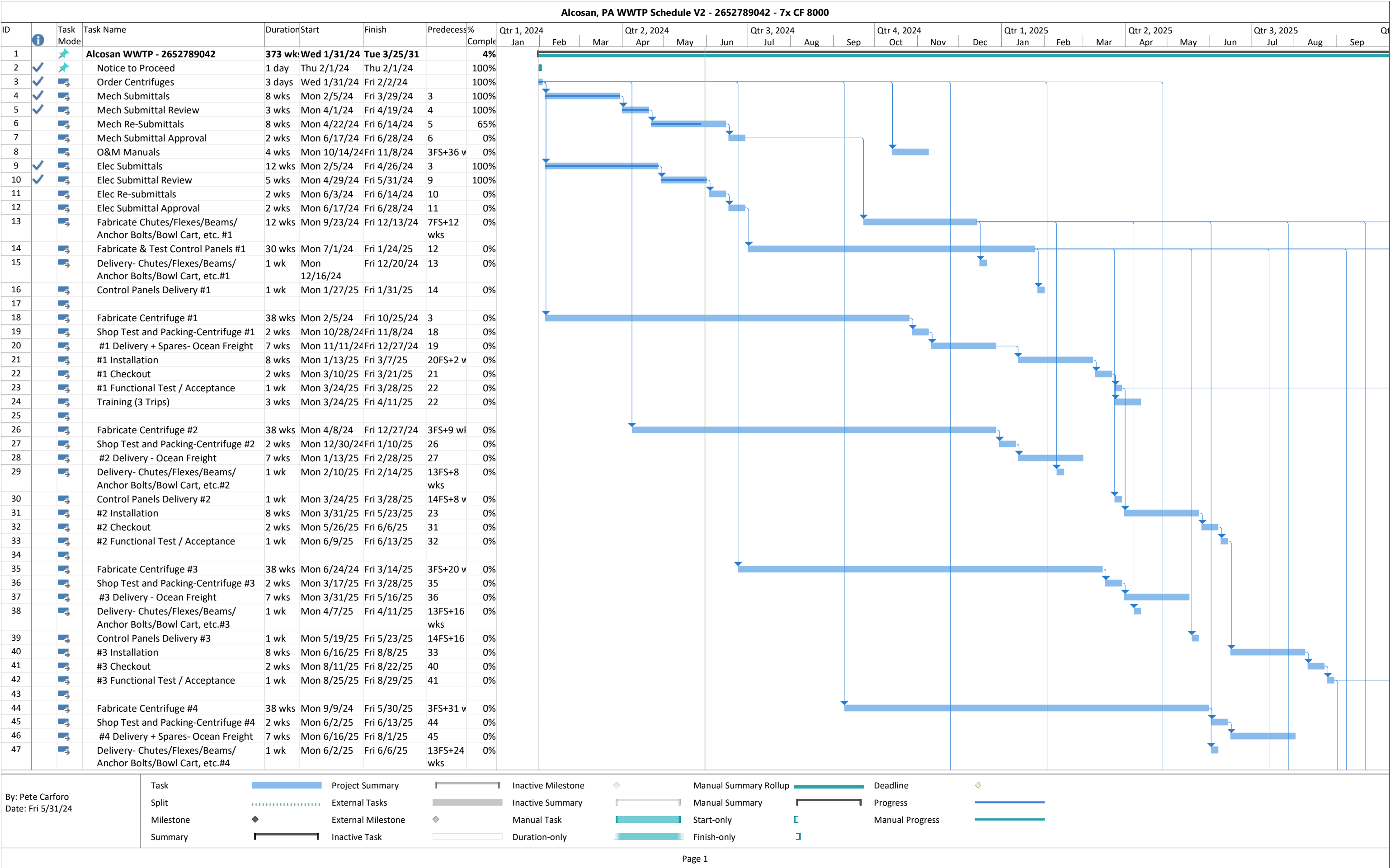
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ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

000-ID-011
WASTE SLUDGE GRINDER
PNEUMATIC VALVE
CONTROL DIAGRAM IV

Contract: 1799
CAD File Name: 000-ID-011.DWG
Date: 07 / 11 / 2024
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Alcosan, PA WWTP Schedule V2 - 2652789042 - 7x CF 8000

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessor	% Complete	Qtr 1, 2024			Qtr 2, 2024			Qtr 3, 2024			Qtr 4, 2024			Qtr 1, 2025			Qtr 2, 2025			Qtr 3, 2025			Qtr 4, 2025
									Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
48			Control Panels Delivery #4	1 wk	Mon 7/14/25	Fri 7/18/25	14FS+24	0%																						
49			#4 Installation	8 wks	Mon 9/1/25	Fri 10/24/25	42	0%																						
50			#4 Checkout	2 wks	Mon 10/27/25	Fri 11/7/25	49	0%																						
51			#4 Functional Test / Acceptance	1 wk	Mon 11/10/25	Fri 11/14/25	50	0%																						
52			Performance Test- Centrifuge #1	1 wk	Mon 11/17/25	Fri 11/21/25	51	0%																						
53																														
54			Fabricate Centrifuge #5	38 wks	Mon 11/25/24	Fri 8/15/25	3FS+42 w	0%																						
55			Shop Test and Packing-Centrifuge #5	2 wks	Mon 8/18/25	Fri 8/29/25	54	0%																						
56			#5 Delivery - Ocean Freight	7 wks	Mon 9/1/25	Fri 10/17/25	55	0%																						
57			Delivery- Chutes/Flexes/Beams/ Anchor Bolts/Bowl Cart, etc.#5	1 wk	Mon 7/28/25	Fri 8/1/25	13FS+32 wks	0%																						
58			Control Panels Delivery #5	1 wk	Mon 9/8/25	Fri 9/12/25	14FS+32	0%																						
59			#5 Installation	8 wks	Mon 11/17/25	Fri 1/9/26	51	0%																						
60			#5 Checkout	2 wks	Mon 1/12/26	Fri 1/23/26	59	0%																						
61			#5 Functional Test / Acceptance	1 wk	Mon 1/26/26	Fri 1/30/26	60	0%																						
62																														
63			Fabricate Centrifuge #6	38 wks	Mon 2/3/25	Fri 10/24/25	3FS+52 w	0%																						
64			Shop Test and Packing-Centrifuge #6	2 wks	Mon 10/27/25	Fri 11/7/25	63	0%																						
65			#6 Delivery - Ocean Freight	7 wks	Mon 11/10/25	Fri 12/26/25	64	0%																						
66			Delivery- Chutes/Flexes/Beams/ Anchor Bolts/Bowl Cart, etc.#6	1 wk	Mon 9/22/25	Fri 9/26/25	13FS+40 wks	0%																						
67			Control Panels Delivery #6	1 wk	Mon 11/3/25	Fri 11/7/25	14FS+40	0%																						
68			#6 Installation	8 wks	Mon 2/2/26	Fri 3/27/26	61	0%																						
69			#6 Checkout	2 wks	Mon 3/30/26	Fri 4/10/26	68	0%																						
70			#6 Functional Test / Acceptance	1 wk	Mon 4/13/26	Fri 4/17/26	69	0%																						
71																														
72			Fabricate Centrifuge #7	38 wks	Mon 4/28/25	Fri 1/16/26	3FS+64 w	0%																						
73			Shop Test and Packing-Centrifuge #7	2 wks	Mon 1/19/26	Fri 1/30/26	72	0%																						
74			#7 Delivery - Ocean Freight	7 wks	Mon 2/2/26	Fri 3/20/26	73	0%																						
75			Delivery- Chutes/Flexes/Beams/ Anchor Bolts/Bowl Cart, etc.#7	1 wk	Mon 11/17/25	Fri 11/21/25	13FS+48 wks	0%																						
76			Control Panels Delivery #7	1 wk	Mon 12/29/25	Fri 1/2/26	14FS+48	0%																						
77			#7 Installation	8 wks	Mon 4/20/26	Fri 6/12/26	70	0%																						
78			#7 Checkout	2 wks	Mon 6/15/26	Fri 6/26/26	77	0%																						
79			#7 Functional Test / Acceptance	1 wk	Mon 6/29/26	Fri 7/3/26	78	0%																						
80																														
81			Optimization after 3 years- Centrifuge #3 (summer)	2 wks	Mon 8/28/28	Fri 9/8/28	42FS+156 wks	0%																						
82			5-year Service Agreement	260 wks	Mon 3/30/26	Fri 3/21/31	23FS+52	0%																						

By: Pete Carforo
Date: Fri 5/31/24

Task

Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Progress

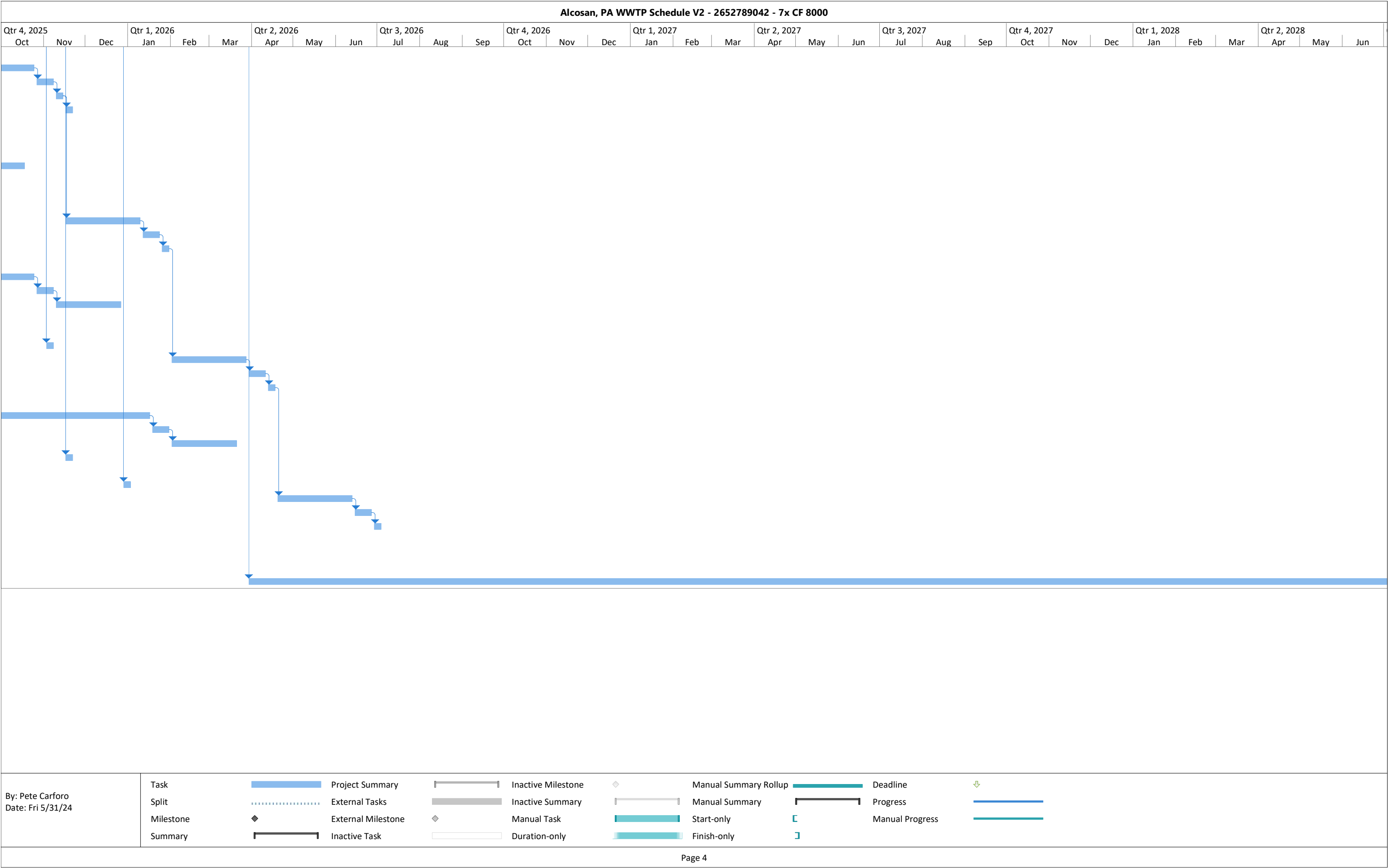
Manual Progress

Page 2

Alcosan, PA WWTP Schedule V2 - 2652789042 - 7x CF 8000

Qtr 4, 2025			Qtr 1, 2026			Qtr 2, 2026			Qtr 3, 2026			Qtr 4, 2026			Qtr 1, 2027			Qtr 2, 2027			Qtr 3, 2027			Qtr 4, 2027			Qtr 1, 2028			Qtr 2, 2028		
Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun

By: Pete Carforo Date: Fri 5/31/24	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
	Split		External Tasks		Inactive Summary		Manual Summary		Progress	
	Milestone		External Milestone		Manual Task		Start-only		Manual Progress	
	Summary		Inactive Task		Duration-only		Finish-only			



Alcosan, PA WWTP Schedule V2 - 2652789042 - 7x CF 8000

Qtr 3, 2028

Jul

Aug

Sep

Qtr 4, 2028

Oct

Nov

Dec

Qtr 1, 2029

Jan

Feb

Mar

Qtr 2, 2029

Apr

May

Jun

Qtr 3, 2029

Jul

Aug

Sep

Qtr 4, 2029

Oct

Nov

Dec

Qtr 1, 2030

Jan

Feb

Mar

Qtr 2, 2030

Apr

May

Jun

Qtr 3, 2030

Jul

Aug

Sep

Qtr 4, 2030

Oct

Nov

Dec

Qtr 1, 2031

Jan

Feb

Mar

By: Pete Carforo

Date: Fri 5/31/24

Task

Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Progress

Manual Progress

Page 5

Alcosan, PA WWTP Schedule V2 - 2652789042 - 7x CF 8000

Qtr 3, 2028			Qtr 4, 2028			Qtr 1, 2029			Qtr 2, 2029			Qtr 3, 2029			Qtr 4, 2029			Qtr 1, 2030			Qtr 2, 2030			Qtr 3, 2030			Qtr 4, 2030			Qtr 1, 2031		
Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar

By: Pete Carforo
Date: Fri 5/31/24

The legend defines the symbols used in the Gantt chart:

- Task:** Represented by a solid blue bar.
- Split:** Represented by a dotted blue line.
- Milestone:** Represented by a black diamond.
- Summary:** Represented by a thick black horizontal line.
- Project Summary:** Represented by a solid blue bar.
- External Tasks:** Represented by a dotted blue line.
- External Milestone:** Represented by a black diamond.
- Inactive Task:** Represented by a light gray bar.
- Inactive Milestone:** Represented by a light gray diamond.
- Inactive Summary:** Represented by a light gray horizontal line.
- Duration-only:** Represented by a light gray bar with vertical end caps.
- Manual Summary Rollup:** Represented by a teal bar.
- Manual Summary:** Represented by a teal bar.
- Manual Task:** Represented by a teal bar.
- Start-only:** Represented by a teal bar with a left bracket.
- Finish-only:** Represented by a teal bar with a right bracket.
- Deadline:** Represented by a green downward arrow.
- Progress:** Represented by a blue bar.
- Manual Progress:** Represented by a teal bar.