

**AGREEMENT FOR THE SUPPLY OF ELECTRICAL EQUIPMENT FOR THE
TERTIARY FILTRATION PROJECT – ELECTRICAL PACKAGE 2 – MCC's, PLC's, &
COMM PANELS**

PROJECT# 11281.L.

THIS AGREEMENT FOR EQUIPMENT PROCUREMENT is made this 1st day of October, 2024, and entered into by and between the City of Meridian, a municipal corporation organized under the laws of the State of Idaho, hereinafter referred to as "CITY", 33 East Broadway Avenue, Meridian, Idaho 83642, and Advanced Electrical Technologies, hereinafter referred to as "SUPPLIER", whose business address is 720 S. Kit, Caldwell, ID 83605.

INTRODUCTION

Whereas, the City has a need for 1 MCC, 2 PLC's and 2 Comm Panels as specified in the contract documents; and

WHEREAS, the Supplier is specially trained, experienced and competent to provide and has agreed to provide such equipment;

NOW, THEREFORE, in consideration of the mutual promises, covenants, terms and conditions hereinafter contained, the parties agree as follows:

TERMS AND CONDITIONS

1. Services, Supplies, Equipment Specifications & Requirements:

1.1 Supplier shall supply the Switchboards to the City upon execution of this Agreement and receipt of the City's written notice to proceed, all items, and comply in all respects, as specified in the Invitation for Bids titled "TERTIARY FILTRATION PROJECT – ELECTRICAL PACKAGE 2" and Suppliers bid dated by which by this reference are incorporated herein, together with all addendums issued.

1.2 The Supplier shall provide all equipment and services under this Agreement consistent with the requirements and standards established by applicable federal, state and City laws, ordinances, regulations and resolutions and the UCC. The Supplier represents and warrants that it will perform its work in accordance with generally accepted industry standards and practices for the profession or professions that are used in performance of this Agreement and that are in effect at the time of performance of this Agreement.

2. Consideration

2.1 The Supplier shall be compensated on a Fixed Price basis as provided in Attachment B "Payment Schedule" attached hereto and by reference made a part hereof, for the Not-To-Exceed amount of **\$340,000.00**.

2.2 The Supplier shall provide the City with a detailed invoice upon delivery of all services, supplies, equipment or chemicals, which the City will pay within 30 days of receipt of a correct invoice and approval by the City Project Manager. The City will not withhold any Federal or State income taxes or Social Security Tax from any payment made by City to Supplier under the terms and conditions of this Agreement. Payment of all taxes and other assessments on such sums is the sole responsibility of Supplier.

2.3 Except as expressly provided in this Agreement, Supplier shall not be entitled to receive from the City any additional consideration, compensation, salary, wages, or other type of remuneration for services rendered under this Agreement including, but not limited to, meals, lodging, transportation, drawings, renderings or mockups. Specifically, Supplier shall not be entitled by virtue of this Agreement to consideration in the form of overtime, health insurance benefits, retirement benefits, paid holidays or other paid leaves of absence of any type or kind whatsoever.

3. Invoices

Invoices shall be rendered in duplicate and shall include: (1) Purchase Order number; (2) pricing; (3) quantity; (4) description; (5) any sales taxes or use taxes as separate items, giving permit number authorizing collection of use taxes; (6) point of shipment; (7) method and class of shipment; (8) complete routing of shipment; and (9) whether transportation expense has been prepaid. Seller/Contractor/Contractor agrees to make a separate invoice for each order and shipment. Unless otherwise expressly provided in the Purchase Order, all taxes, duties, tolls, fees, import charges, or other governmental exactions shall be deemed included in the purchase price of the supplies and services and the City shall have no liability to pay Seller/Contractor/Contractor or any third party any amount in excess of the specified purchase price. City of Meridian, a local governmental entity of the State of Idaho, is exempt from any Federal Manufacturer's Excise Tax under the provision of Section 4221(a)(4) of the Internal Revenue Code. All invoices shall exclude such excise tax. All invoices shall be sent to the following address:

City of Meridian, Accounts Payable, 33. East Broadway Ave., Meridian, Idaho 83642.

4. **Term:**

4.1 This agreement shall become effective upon execution by both parties, and shall expire upon on successful startup and commissioning or unless sooner terminated as provided below.

4.2 The City reserves the right to extend the agreement for up to four (4) additional one-year periods if mutually agreeable to both parties. Any and all extensions must be documented in writing and be executed by both parties. Any continuation of this agreement beyond September 30 of any fiscal year is subject to City Council approval.

4.3 Should Supplier default in the performance of this Agreement or materially breach any of its provisions, City, at City's option, may terminate this Agreement by giving written notification to Supplier.

4.4 Should City fail to pay Supplier all or any part of the compensation set forth in Attachment B of this Agreement on the date due, Supplier, at the Supplier's option, may terminate this Agreement if the failure is not remedied by the City within thirty (30) days from the date payment is due.

5. **Termination:**

If, through any cause, Supplier, its officers, employees, or agents fails to fulfill in a timely and proper manner its obligations under this Agreement, violates any of the covenants, agreements, or stipulations of this Agreement, falsifies any record or document required to be prepared under this agreement, engages in fraud, dishonesty, or any other act of misconduct in the performance of this contract, the City shall thereupon have the right to terminate this Agreement by giving written notice to Supplier of such termination and specifying the effective date thereof at least fifteen (15) days before the effective date of such termination.

Notwithstanding the above, Supplier shall not be relieved of liability to the City for damages sustained by the City by virtue of any breach of this Agreement by Supplier, and the City may withhold any payments to Supplier for the purposes of set-off until such time as the exact amount of damages due the City from Supplier is determined. This provision shall survive the termination of this agreement and shall not relieve Supplier of its liability to the City for damages.

6. **Independent Supplier:**

6.1 In all matters pertaining to this agreement, Supplier shall be acting as an independent Supplier, and neither Supplier nor any officer, employee or agent of Supplier will be deemed an employee of City. Except as expressly provided in Attachment A, Supplier has no authority or responsibility to exercise any rights or power vested in the City and therefore has no authority to bind or incur any obligation on behalf of the City. The selection and

designation of the personnel of the City in the performance of this agreement shall be made by the City.

6.2 Supplier, its agents, officers, and employees are and at all times during the term of this Agreement shall represent and conduct themselves as independent Suppliers and not as employees of the City.

6.3 Supplier shall determine the method, details and means of performing the work and services to be provided by Supplier under this Agreement. Supplier shall be responsible to City only for the requirements and results specified in this Agreement and, except as expressly provided in this Agreement, shall not be subjected to City's control with respect to the physical action or activities of Supplier in fulfillment of this Agreement. If in the performance of this Agreement any third persons are employed by Supplier, such persons shall be entirely and exclusively under the direction and supervision and control of the Supplier.

7. Indemnification and Insurance:

- a. Supplier shall indemnify and save and hold harmless City from and for any and all losses, claims, actions, judgments for damages, or injury to persons or property and losses and expenses and other costs including litigation costs and attorney's fees, arising out of, or resulting from, the performance of this Agreement by the Supplier, its servants, agents, officers, employees, guests, and business invitees, to the extent caused by the negligence or willful misconduct of Supplier, and not caused by or arising out of the tortuous conduct of City or its employees. Supplier shall maintain, and specifically agrees that it will maintain, throughout the term of this Agreement, liability insurance, in which the City shall be named an additional insured, except Workers Compensation Insurance, in the minimum amounts as follow: General Liability One Million Dollars (\$1,000,000) per incident or occurrence, Automobile Liability Insurance One Million Dollars (\$1,000,000) per incident or occurrence and Workers' Compensation Insurance, in the statutory limits as required by law. The limits of insurance shall not be deemed a limitation of the covenants to indemnify and save and hold harmless City; and if City becomes liable for an amount in excess of the insurance limits, herein provided, Supplier covenants and agrees to indemnify and save and hold harmless City from and for all such losses, claims, actions, or judgments for damages or injury to persons or property and other costs, including litigation costs and attorneys' fees, arising out of, resulting from , or in connection with the performance of this Agreement by the Supplier or Supplier's officers, employs, agents, representatives or sub-suppliers and resulting in or attributable to personal injury, death, or damage or destruction to tangible or intangible property, including use of. Supplier shall provide City with a Certificate of Insurance, or other proof of insurance evidencing Supplier's compliance with the requirements of this paragraph and file such proof of insurance with the City at least ten (10) days prior to the date Supplier begins performance of its obligations under this Agreement. In the event the insurance minimums are changed, Supplier

shall immediately submit proof of compliance with the changed limits. Evidence of all insurance shall be submitted to the City Purchasing Agent with a copy to Meridian City Accounting, 33 East Broadway Avenue, Meridian, Idaho 83642.

7.2 Any deductibles, self-insured retention, or named insureds must be declared in writing to the City.

7.3 To the extent of the indemnity in this contract, Supplier's Insurance coverage shall be primary insurance regarding the City's elected officers, officials, employees and volunteers. Any insurance or self-insurance maintained by the City or the City's elected officers, officials, employees and volunteers shall be excess of the Supplier's insurance and shall not contribute with Supplier's insurance except as to the extent of City's negligence.

- b. The Supplier's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

7.4 All insurance coverages for Suppliers subs shall be subject to all of the insurance and indemnity requirements stated herein.

7.5 The limits of insurance described herein shall not limit the liability of the Supplier and Supplier's agents, representatives, employees or subcontractors.

7.6 The limits of insurance described herein shall not limit the liability of the Contractor and Contractor's agents, representatives, employees or subcontractors.

- 8. **Warranty:** In addition to any warranty required in the specifications, all equipment, coatings, valves, controls, and other components provided under this agreement shall be guaranteed for one (1) year against defects in workmanship and materials from the notice of acceptance.
- 9. **Notices:** Any and all notices required to be given by either of the parties hereto, unless otherwise stated in this agreement, shall be in writing and be deemed communicated when mailed in the United States mail, certified, return receipt requested, addressed as follows:

City of Meridian
Procurement Manager
33 E. Broadway Avenue
Meridian, Idaho 83642
Ph. (208) 489-0417
Email: kwatts@meridianCity.org

Either party may change their address for the purpose of this paragraph by giving written notice of such change to the other in the manner herein provided.

10. **Attorney Fees:** Should any litigation be commenced between the parties hereto concerning this Agreement, the prevailing party shall be entitled, in addition to any other relief as may be granted, to court costs and reasonable attorneys' fees as determined by a Court of competent jurisdiction. This provision shall be deemed to be a separate contract between the parties and shall survive any default, termination or forfeiture of this Agreement.
11. **Time is of the Essence:** The parties hereto acknowledge and agree that time is strictly of the essence with respect to each and every term, condition and provision hereof, and that the failure to timely perform any of the obligations hereunder shall constitute a breach of, and a default under, this Agreement by the party so failing to perform.
12. **Assignment:** It is expressly agreed and understood by the parties hereto, that Supplier shall not have the right to assign, transfer, hypothecate or sell any of its rights under this Agreement except upon the prior express written consent of City.
13. **Discrimination Prohibited:** In performing the Work required herein, Supplier shall not unlawfully discriminate in violation of any federal, state or local law, rule or regulation against any person on the basis of race, color, religion, sex, national origin or ancestry, age or disability.
14. **Reports and Information:**
 - 14.1 At such times and in such forms as the City may require, there shall be furnished to the City such statements, records, reports, data and information as the City may request pertaining to matters covered by this Agreement.
 - 14.2 Supplier shall maintain all writings, documents and records prepared or compiled in connection with the performance of this Agreement for a minimum of four (4) years from the termination or completion of this or Agreement. This includes any handwriting, typewriting, printing, photo static, photographic and every other means of recording upon any tangible thing, any form of communication or representation including letters, words, pictures, sounds or symbols or any combination thereof.
15. **Audits and Inspections:** Subject to applicable laws respecting the protection of privacy and the City's requirement to comply with the Idaho Public Records Act, at any time during normal business hours and as often as the City may deem necessary, there shall be made available to the City for examination all of Supplier's records with respect to all matters covered by this Agreement. Supplier shall permit the City to audit, examine, and make excerpts or transcripts from such records, and to make audits of all contracts, invoices, materials, payrolls, records of personnel, conditions of

employment and other data relating to all matters covered by this Agreement.

16. **Publication, Reproduction and Use of Material:** No material produced in whole or in part under this Agreement shall be subject to copyright in the United States or in any other country. The City shall have unrestricted authority to publish, disclose and otherwise use, in whole or in part, any reports, data or other materials prepared under this Agreement.
17. **Compliance with Laws:** In performing the scope of work required hereunder, Supplier shall comply with all applicable laws, ordinances, and codes of Federal, State, and local governments.

This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Idaho, and the ordinances of the City of Meridian.

Certifications.

Pursuant to Idaho Code §§ 67-2359 and 67-2346, Contractor hereby certifies:

- A. That Contractor is not currently owned or operated by the government of China and will not, for the duration of this Contract, be owned or operated by the government of China.
 - B. That Contractor is not currently engaged in, and will not for the duration of the Contract engage in, a boycott of goods or services from Israel or territories under its control.
 - C. Consultant certifies that: (i) as of the Effective Date, it is not engaged in a "Boycott," as defined in Idaho Code §67-2347A, of any individual or company because that individual or company engages in or supports (a) the exploration, production, utilization, transportation, sale, or manufacture of fossil fuel-based energy, timber, minerals, hydroelectric power, nuclear energy, or agriculture, or (b) the manufacture, distribution, sale, or use of any "Firearm," as defined in Idaho Code §18-3302(2)(d); and (ii) it will not engage in any such boycott during the Term.
18. **Changes:** The City may, from time to time, request changes in the Scope of Work to be performed hereunder. Such changes, including any increase or decrease in the amount of Supplier's compensation, which are mutually agreed upon by and between the City and Supplier, shall be incorporated in

written amendments which shall be executed with the same formalities as this Agreement.

- 19. **Construction and Severability:** If any part of this Agreement is held to be invalid or unenforceable, such holding will not affect the validity or enforceability of any other part of this Agreement so long as the remainder of the Agreement is reasonably capable of completion.
- 20. **Waiver of Default:** Waiver of default by either party to this Agreement shall not be deemed to be waiver of any subsequent default. Waiver or breach of any provision of this Agreement shall not be deemed to be a waiver of any other or subsequent breach, and shall not be construed to be a modification of the terms of this Agreement unless this Agreement is modified as provided above.
- 21. **Advice of Attorney:** Each party warrants and represents that in executing this Agreement. It has received independent legal advice from its attorney’s or the opportunity to seek such advice.
- 22. **Entire Agreement:** This Agreement contains the entire agreement of the parties and supersedes any and all other agreements or understandings, oral of written, whether previous to the execution hereof or contemporaneous herewith.
- 24. **Order of Precedence:** The order or precedence shall be this contract agreement, the Invitation for Bid document, then the winning bidders submitted bid document.
- 23. **Applicable Law:** This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Idaho, and the ordinances of the City of Meridian.
- 24. **Approval Required:** This Agreement shall not become effective or binding until approved by the City of Meridian.
- 25. **Consequential Damages:** In no event will either party be liable to the other for consequential damages, except to the extent of gross negligence or willful misconduct.

CITY OF MERIDIAN:

By: _____
Keith Watts, Procurement Manager

Dated: _____

CITY PM: David Briggs

ADVANCED ELECTRICAL TECHNOLOGIES:

Signed by:
By: Seth Krause
DC4F1FE4C3F14E7...

Dated: 10/30/2024 | 11:07 AM PDT

Approved by Council:

ATTACHMENT A

SPECIFICATIONS & REQUIREMENTS

REFER TO INVITATION TO BID PW-2426-11281.L

ALL ADDENDUMS, ATTACHMENTS, AND EXHIBITS included in the Invitation to Bid Package, are by this reference made a part hereof.

SPECIFICATIONS / SCOPE OF WORK

Documents from the Invitation to Bid:

- **VOLUME 1: TECHNICAL SPECIFICATIONS – WRRF TERTIARY FILTRATION FACILITIES PRE-PROCUREMENT PACKAGE 2 by Stantec Consulting Services, Inc. (100 pages)**
- **DRAWINGS – WRRF TERTIARY FILTRATION FACILITIES PRE-PROCUREMENT PACKAGE 2 by Stantec Consulting Services, Inc. (21 pages)**

See attached updated documents:

- **Rockwell Automation Document # STFB3MCC0001**
- **Updated Drawings: MERIDIAN WATER RESOURCE RECOVERY FACILITY TERTIARY FILTRATION FACILITIES (19 pages)**

ATTACHMENT B**MILESTONE / PAYMENT SCHEDULE**

A. Total and complete compensation for this Agreement shall not exceed \$340,000.00.

MILESTONE DATES/PRICING SCHEDULE						
ITEM	DESCRIPTION	EQUIPMENT SPECIFICATION	SUPPLEMENTARY REFERENCE SPECIFICATIONS	REFERENCE DRAWINGS	QTY	TOTAL
1	MCC's	26 24 19		500-E-202 500-E-604 500-E-607		\$70,000.00
2	Chem Building 3 PLC	40 95 10	10 63 13 40 91 00 40 95 13 40 95 20	000-I-603 000-I-604 500-I-501 500-I-502 500-I-503 530-I-501 530-I-502 530-I-503		\$145,000.00
3	TF Building PLC	40 95 10	10 63 13 40 91 00 40 95 13 40 95 20	000-I-603 000-I-604 500-I-501 500-I-502 500-I-503 530-I-501 530-I-502 530-I-503		\$95,000.00
4	Chem Building 3 Comms Panel	40 95 10	10 63 13 40 91 00 40 95 13 40 95 20	000-I-603 000-I-604 500-I-504 500-I-505 530-I-504 530-I-505		\$15,000.00
5	TF Building Comms Panel	40 95 10	10 63 13 40 91 00 40 95 13 40 95 20	000-I-603 000-I-604 500-I-504 500-I-505 530-I-504 530-I-505		\$15,000.00
Contract includes furnishing all labor, materials, equipment, and incidentals as required for the Tertiary Filtration Electrical Package 2 - Pre-Procurement per ITB #PW-2426-11281.L. All equipment shall be delivered (FOB Destination) to the City, 3401 N. Ten Mile Road, Meridian, ID 83646. The manufacturer will submit at time of delivery; complete operation and maintenance manuals covering the equipment as delivered. CONTRACT TOTAL..... <u>\$340,000.00</u>						

Rockwell Automation

Centerline 2100 Motor Control Center

Basic Structure Information

Project Name: City of Meridian WRRF TF

Project Item: STFB3MCC0001

Project ID #: 5334856/1

Motor Control Center Details

This MCC(s) was developed using an available fault current of 50,001 to 65,000 A.
MCC configuration & pricing subject to change, if actual Available Fault Current differs.

Motor Control Center Details

Power System Type: Wye, 3-phase, 3-wire with solidly grounded neutral
Voltage: 480 Volts / 60 Hertz
Available Fault Current: 50,001 to 65,000 A
Master Nameplate: 1 Line(s)
Unit Nameplate Type: Acrylic - Black letters on white
Wiring Type: B-T Control and Power Terminal Blocks
Wiring Diagram Location: Within each unit
Arc Resistant MCC: No
IntelliCENTER Network: Ethernet
IMC Device Firmware: Upgraded to latest available version (saves up to 1 hour of customer configuration time per section)

Incoming Line Details

MCC Connection Type: Main Circuit Breaker
Incoming Line Cable Entry: Bottom Mounted

Bus Details

Rockwell Automation

Centerline 2100 Motor Control Center

Unit Description

Project Name: City of Meridian WRRF TF

Project Item: STFB3MCC0001

Project ID #: 5334856/1

General Information

Line Voltage / Frequency: 480 Volts / 60 Hertz

Power System Configuration: Wye, 3-phase, 3-wire with solidly grounded neutral

Class I Wiring Type: B-T Control and Power Terminal Blocks

NEMA Enclosure Type: 1G - with Gasketed Doors

Available Fault Current: 50,001 to 65,000 A

Unit Nameplate Type: Acrylic - Black letters on white

Delivery Program: ENG

Unit Information

Description	Unit Features
Unit Loc: 01A Del Prog: PEII Unit ID: 2 ENSW - Stratix 5200 20-Port 1783-CMS20DN <u>Wiring Diagram</u> 10007662157 <u>Name Plate Information</u> ETHERNET SWITCH <u>Ethernet Information</u> Device Type IP Address Subnet Mask 2100-ESW 192.168.1.1 255.255.255.0 No Cable Length Ethernet Switch Firmware Version: LATEST	Catalog Number: 2100-ESW5220K-T10GRP-751S Total Space Factor = 1

Unit Loc: 01E Del Prog: ENG Unit ID: 5 FCBX - Empty Unit Insert <u>Wiring Diagram</u> 10005455227 <u>Name Plate Information</u> SPD	Catalog Number: 2100M-CKC-36TGM-79L-79U Total Space Factor = 1.5 Circuit Breaker: Thermal Magnetic, 65kA at 480V (G6C Frame) (60A Trip) Disconnect Type Circuit Breaker <u>Features Included</u> Unit Ground Load Connector Unplated Cu (-79L) Unit Grd Stab Unplated Cu (-79U) <u>Engineered Spec(s)/Modification(s)</u> (1) ASCO SPD - 300 ka/phase (At 480V Delta or Wye - At 600V Wye only) - UL Rated,450****P30ACCN20 (1) Engineered Modification and/or Custom Diagram
Unit Loc: 01H Del Prog: FT1 Unit ID: 9 MCB - Main Circuit Breaker <u>Rating</u> 300A <u>Wiring Diagram</u> 10004074268 <u>Name Plate Information</u> MAIN INCOMING BREAKER 300 AMP	Catalog Number: 2193MB-DKC-48TKM-80A500 Total Space Factor = 2.5 Circuit Breaker: Electronic (LSI), 65kA at 480V (300) with Frame Rating

Unit Loc: 02H Del Prog: FT1 Unit ID: 4 FVNR - Full Voltage Non-Reversing Starter w/CB <u>Rating</u> 10 HP <u>Wiring Diagram</u> 10008111982 <u>Name Plate Information</u> SPARE <u>Overload Relay(s)</u> E300 Comm Based Overload (7FE3) E300 Communication Option = EtherNet/IP E300 Voltage Code = 120V AC E300 Control Module = Control Only E300 Sensing Module = 0.5-30A Curr/Grnd Fault/Volt E300 Operator Station = Electronic Reset E300 Expansion Module = Not Available Motor RPM = 1800 Motor Full Load Current (FLC) = 13.65 Motor Service Factor = 1.15 <u>Ethernet Information</u> <table border="1"> <thead> <tr> <th>Device Type</th> <th>IP Address</th> <th>Subnet Mask</th> </tr> </thead> <tbody> <tr> <td>2113</td> <td>192.168.1.4</td> <td>255.255.255.0</td> </tr> </tbody> </table> Cable Length: 2.96 m E300 Overload Firmware Version: LATEST	Device Type	IP Address	Subnet Mask	2113	192.168.1.4	255.255.255.0	Catalog Number: 2113B-BAB-3-5LGA-6P-7FE3EDCN3VR-41TGA-79L-79U-85T-90-91-750-751S Size: NEMA Size 1 Total Space Factor = 1 Wiring: NEMA Type B wiring Circuit Breaker: Instantaneous MCP, 100kA at 480V (G
Device Type	IP Address	Subnet Mask					
2113	192.168.1.4	255.255.255.0					

Unit Loc: 03G Del Prog: FT1 Unit ID: 4 FVNR - Full Voltage Non-Reversing Starter w/CB Rating 10 HP Wiring Diagram 10008111982 Name Plate Information SPARE Overload Relay(s) E300 Comm Based Overload (7FE3) E300 Communication Option = EtherNet/IP E300 Voltage Code = 120V AC E300 Control Module = Control Only E300 Sensing Module = 0.5-30A Curr/Grnd Fault/Volt E300 Operator Station = Electronic Reset E300 Expansion Module = Not Available Motor RPM = 1800 Motor Full Load Current (FLC) = 13.65 Motor Service Factor = 1.15 Ethernet Information Device Type IP Address Subnet Mask 2113 192.168.1.7 255.255.255.0 Cable Length: 3.3 m E300 Overload Firmware Version: LATEST	Catalog Number: 2113B-BAB-3-5LGA-6P-7FE3EDCN3VR-41TGA-79L-79U-85T-90-91-750-751S Size: NEMA Size 1 Total Space Factor = 1 Wiring: NEMA Type B wiring Circuit Breaker: Instantaneous MCP, 100kA at 480V (G8P Frame) (30A Trip) Control: Transformer with Secondary Fuse, Standard Capacity, Primary Fusing, 120V/60Hz Control Wiring: #14 AWG MTW (TEW) Cu (Tinned) Features Included Selector Switch: HAND-OFF-AUTO (-3) Pilot Light(s): ON-OFF Type: LED Push To Test, Color(s): Green, Amber (-5LGA) Std Capacity Control Power Transformer W/Primary Fuses (-6P) Unit Ground Load Connector Unplated Cu (-79L) Unit Grd Stab Unplated Cu (-79U) Elapsed Time Meter (-85T) 1 NO on Starter (-90) 1 NC on Starter (-91) #14 AWG MTW (TEW) Cu (Tinned) (-750) Sleeve Type Markers (-751S) Engineered Spec(s)/Modification(s) (1) Bulletin 800T/H, Selector Switch, Padlocking Cover, Part number 800T-N163 (Padlock not included),800T-N163 (1) Engineered Modification and/or Custom Diagram (1) Bulletin 800H, Push Button, Push-Pull or Push-Pull/Twist, Maintained Contact, Non-Illuminated,800H-FRX???? (1) Rockwell Automation Bulletin 700-HK Slim Line Relay, DPDT, 2-pole, 2 Form C, AgNi Contacts,700-HK32? Note - TD4, TD5
Unit Loc: 03J Del Prog: SCII Unit ID: 11 DOOR - Blank Unit Door	Catalog Number: 2100-BK10 Total Space Factor = 1
Unit Loc: 03L Del Prog: SCII Unit ID: 11 DOOR - Blank Unit Door	Catalog Number: 2100-BK10 Total Space Factor = 1

Rockwell Automation

Centerline 2100 Motor Control Center

Front Elevation

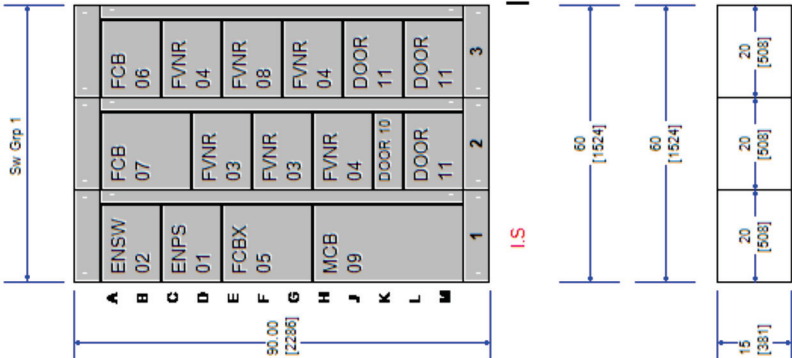
Project Name: City of Meridian WRRF TF

Project Item: STFB3MCC0001

Project ID #: 5334856/1

Rockwell Automation/Allen-Bradley

PowerControl Builder Lineup



NOTE: Dimensions are subject to change after design review.

ENCLOSURE: NEMA Type 1G (General Purpose with Gasketed Doors)

Estimated Heat Loss: 697 watts.

BTU/hr. Required: 2377

Air Conditioning Tons: 0.20

Estimated Weight: 1500 lbs. (680 kg)

Heat loss values are for estimating purposes only.

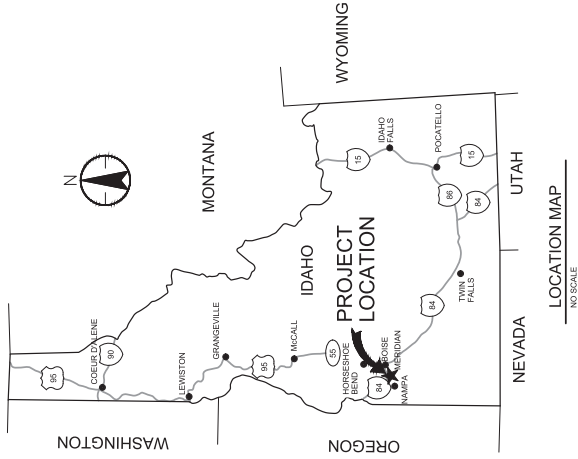
CITY OF MERIDIAN

MERIDIAN WATER RESOURCE RECOVERY FACILITY TERTIARY FILTRATION FACILITIES

PRE-PROCUREMENT PACKAGE 2

2024.07.01

PROJECT NUMBER: 2002003136



LIST OF DRAWINGS

GENERAL

000-G-001	COVER SHEET, LOCATION AND VICINITY MAPS, AND LIST OF DRAWINGS
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INSTRUMENTATION

0001-0003	CONTROL NETWORK ARCHITECTURE - I
0001-0004	CONTROL NETWORK ARCHITECTURE - II
5001-5001	MEMBRANE BUILDING - P/C CONTROL PANEL ARRANGEMENT DETAILS
5001-5002	MEMBRANE BUILDING - P/C BILL OF MATERIAL
5001-5003	MEMBRANE BUILDING - P/C PANEL WIRING DIAGRAM
5001-5004	MEMBRANE BUILDING - P/C PANEL WIRING DIAGRAM
5001-5005	MEMBRANE BUILDING - COMMUNICATIONS PANEL WIRING DIAGRAM
5001-5001	CHEMICAL BUILDING 3 - P/C CONTROL PANEL DETAILS
5001-5002	CHEMICAL BUILDING 3 - P/C BILL OF MATERIAL
5001-5003	CHEMICAL BUILDING 3 - P/C WIRING DIAGRAM
5001-5004	CHEMICAL BUILDING 3 - P/C WIRING DIAGRAM
5001-5005	CHEMICAL BUILDING 3 - COMM PANEL WIRING DIAGRAM

ELECTRICAL

500-E-201 MEMBRANE BUILDING - EQUIPMENT ELEVATION - I
500-E-202 MEMBRANE BUILDING - EQUIPMENT ELEVATION - II
500-E-602 MEMBRANE BUILDING - SINGLE-LINE DIAGRAM - II
500-E-603 MEMBRANE BUILDING - SINGLE-LINE DIAGRAM - III
500-E-604 MEMBRANE BUILDING - SINGLE-LINE DIAGRAM - IV
500-E-607 MEMBRANE BUILDING - TYPICAL 480V 3PH FVNR SCHEMATIC



Stantec
777 E. WASHINGTON ST. SUITE 100
BOULDER, CO 80501
TEL: 303.440.5865
WWW.STANTEC.COM

Consultant

Issued	By	App'd	Rev
1	FOR PRELIMINARY DESIGN	WMS	1
2	FOR PRELIMINARY DESIGN	WMS	2
3	FOR PRELIMINARY DESIGN	WMS	3
4	FOR PRELIMINARY DESIGN	WMS	4
5	FOR PRELIMINARY DESIGN	WMS	5
6	FOR PRELIMINARY DESIGN	WMS	6
7	FOR PRELIMINARY DESIGN	WMS	7
8	FOR PRELIMINARY DESIGN	WMS	8
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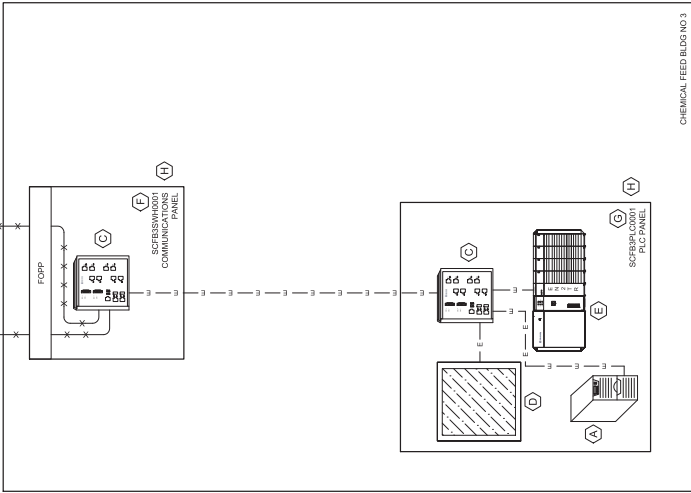
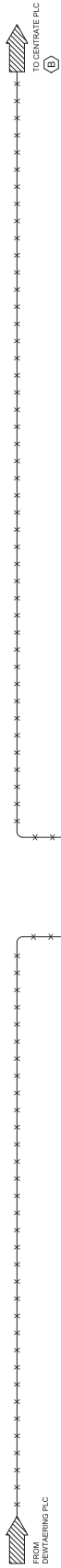
Client/Project
CITY OF MERIDIAN
MERIDIAN WATER RESOURCE
RECOVERY FACILITY
FACILITIES
Meridian, IDAHO
Project No.: 202003136
Scale: NO SCALE
Sheet: 000-I-603
Date: 07/14/2020
Drawn: WMS
Checked: WMS
Title
CONTROL NETWORK
ARCHITECTURE - I
Revision:
Drawing No.
000-I-603

SHEET KEYNOTES

- A. UPS
- B. THE INTEGRATION OF SCFBLP-0001 ONTO THE SCADA RING WILL OCCUR IN THE FOPP AT THE DEWATERING PLC.
- C. ETHERNET SWITCH - STRATIX 5200 175-2481UP
- D. SCFBLP-0001 175-2481UP 10/100/1000 WITH THICK CLIENT.
- E. PLC - CONTROLLOGIX 1764-LX
- F. REFER TO DRAWING 500-504 FOR STANDARD LAYOUT OF PANEL.
- G. REFER TO DRAWING 500-501 FOR STANDARD LAYOUT OF PANEL.
- H. COMMUNICATIONS AND PLC PANELS ARE PROVIDED IN PRE-PURCHASE PACKAGE 2. COORDINATE INSTALLATION WITH OWNER.

LEGENDS

- ELECTRICAL SIGNAL
- E-E-E- ETHERNET CABLE
- X-X-X- FIBER CABLE (MULTI-MODE)





TRAFFIC SIGNS 178-CANS-020P
THE INTEGRATION OF STRIPPER-COATS ONTO THE SCADA RING WILL OCCUR IN THE FOPP
THE OFFICIAL P.C.
TRAFFIC SIGNS 178-CANS-020P
L.C. CONTROL BOX TRAFFIC
IT - HOPE INDUSTRIAL H-SAIL 19.4-F0VIB WITH THICK CLIENT.
PS
REFER TO DRAWING 500-1-50M FOR STANDARD LAYOUT OF PANEL.
REFER TO DRAWING 500-1-50M FOR STANDARD LAYOUT OF PANEL.
COMMUNICATIONS AND P.C.PANELS ARE PROCURED IN PRE-PURCHASE PACKAGE 2.
COORDINATE INSTALLATION WITH OWNER
TRAFFIC SIGNS 178-CANS-020C

LEGENDS

---	ELECTRICAL SIGNAL
— E — E —	ETHERNET CABLE
X X X X	FIBER CABLE (MULTI-MODE)

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CONSTRUCTION**

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Project No.: 20020003124
CITY OF MERIDIAN
MERIDIAN WATER RESOURCE
RECOVERY FACILITY
TERTIARY FILTRATION
FACILITIES
MERIDIAN, IDAHO

Project No.: 2002003136
 File Name: 001500004-004
 Scale: NO SCALE

OWN	DATE	BY	DATE
OWN	DATE	BY	DATE

title
CONTROL NETWORK
ARCHITECTURE - II

Revision: Drawing No.

Drawing No.
000-1-604



Stantec
777 E. Wacker Drive, Suite 1100
Chicago, IL 60601
Tel: 312.444.2000
Fax: 312.444.2001
www.stantec.com

Consultant

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1. PRELIMINARY	JPM	JPM	JPM
2. REVISED	JPM	JPM	JPM
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Client/Project
CITY OF MERIDIAN
RECOVERY FACILITY
FACILITIES
MIRIAMIAN, IDAHO
Project No.: 202003136
Title: STFB3PLC0001
Scale: NO SCALE
Sheet: 500-I-501
Date: 07/14/2020
Drawn: JPM
Checked: JPM
Reviewed: JPM
Title: STFB3PLC0001
Scale: NO SCALE
Sheet: 500-I-501
Date: 07/14/2020
Drawn: JPM
Checked: JPM
Reviewed: JPM

Revision:
Drawing No.:
500-I-501

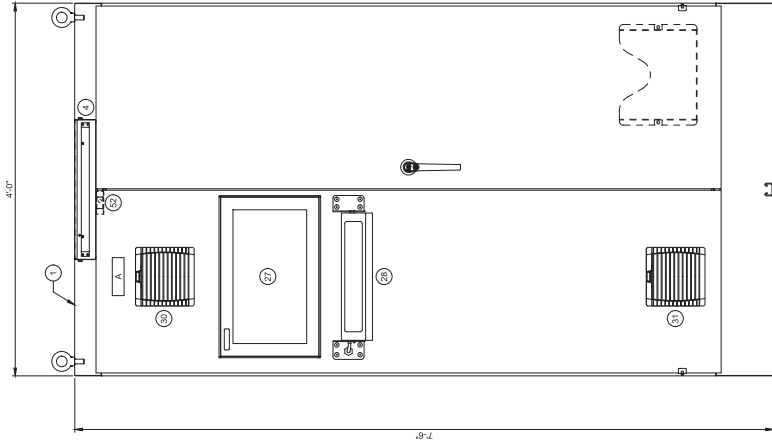
STFB3PLC0001
FILTERS BUILDING PLC CONTROL PANEL

GENERAL SHEET NOTES

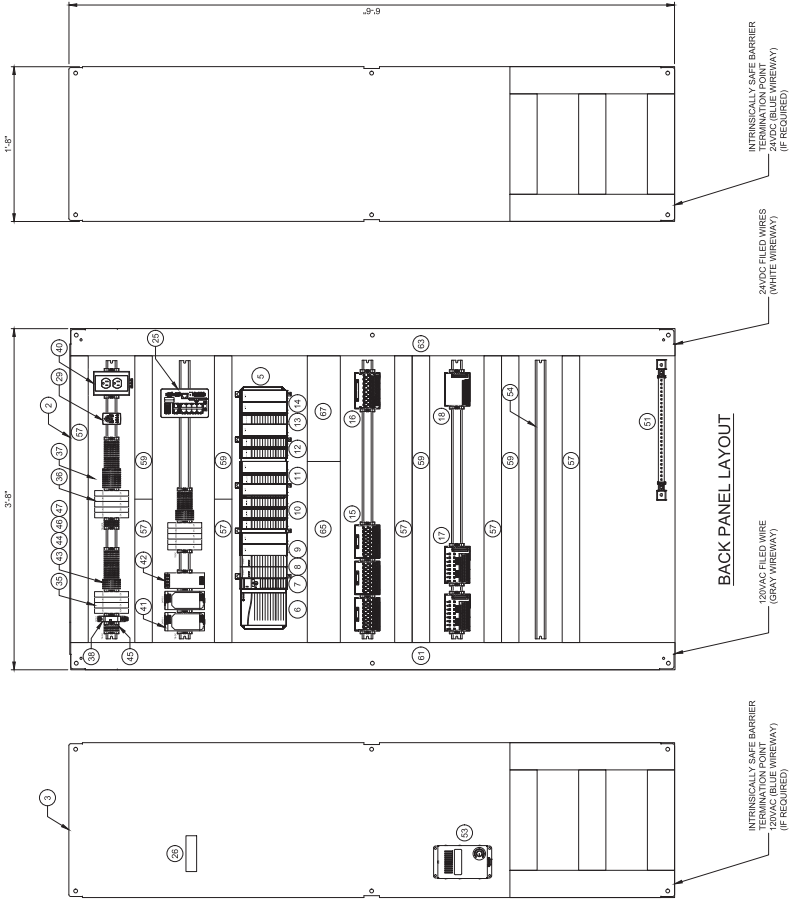
1. DO NOT REMOVE OR CUT OUT PANEL FINGERS FROM ADJACENT WIREWAY.
2. MAXIMUM EQUIPMENT MOUNTED DEPTH 3".
3. MAXIMUM EQUIPMENT MOUNTED HEIGHT 6".
4. U.L. LABEL LOCATED ON INSIDE THE PANEL DOOR.

PANEL LABEL

LABEL	PANEL TAG	DESCRIPTION
A	STFB3PLC0001	TERTIARY FILTERS PLC CONTROL PANEL

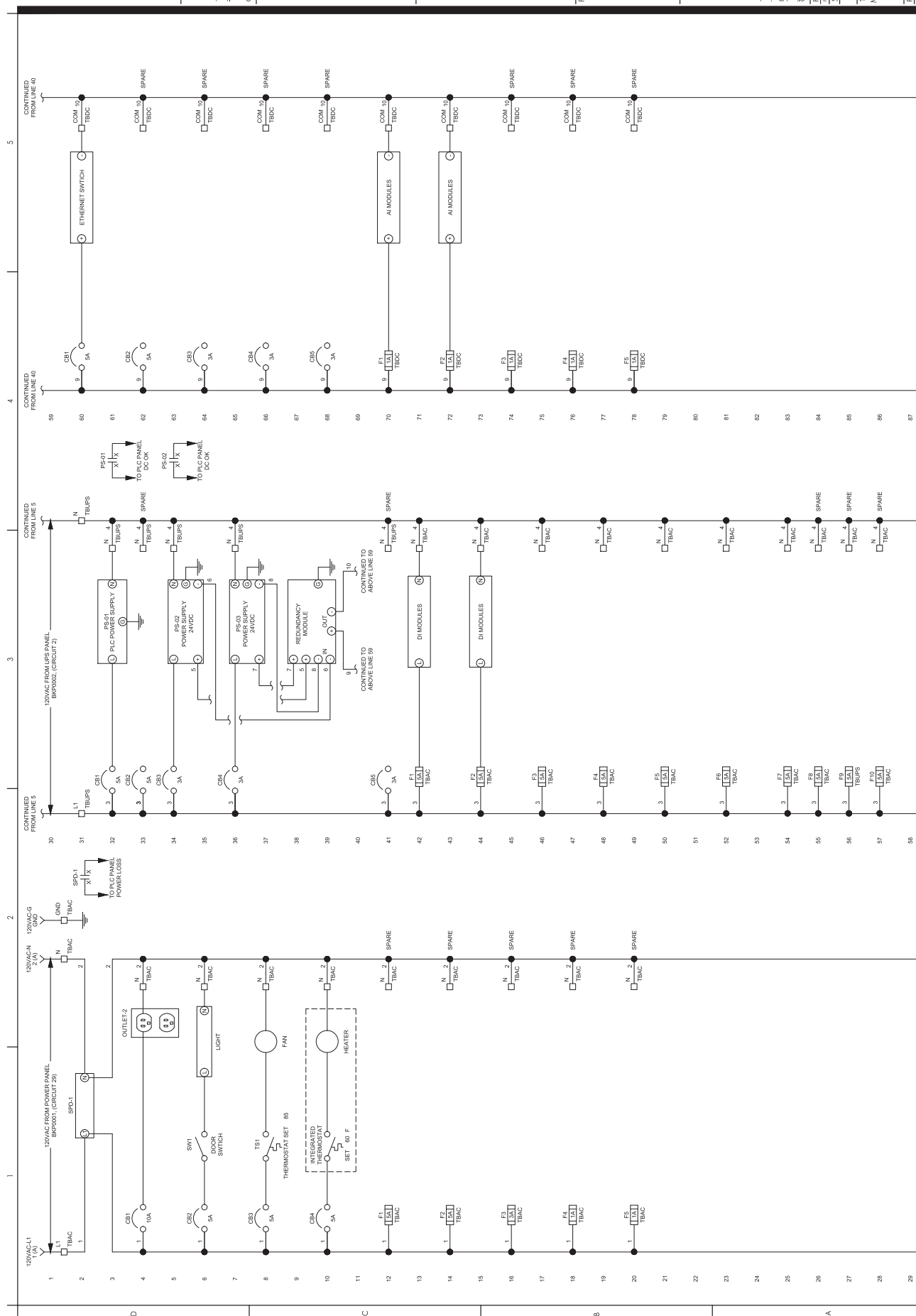


FRONT PANEL LAYOUT



BACK PANEL LAYOUT

BILL OF MATERIAL				
ITEM NO	QTY	MANUFACTURER	MODEL NUMBER	DESCRIPTION
1	1	SAGRAW	SCE 90464FSD	ENCLOSURE hoef A068324ed
2	1	SAGRAW	SCE 90464F1	BACK PANEL hoef a068324f1
3	2	SAGRAW	SCE 9080P20	SIDE PANEL hoef a068324b
4	1	SAGRAW	SCE LF 11ND0	ENCLOSURE LIGHT hoef e0550 + e0c3001j0d
5	1	ALLEN BRADLEY	1756A17	PLC RACK, 17 SLOT
6	1	ALLEN BRADLEY	1756-PX75	PLC POWER SUPPLY
7	1	ALLEN BRADLEY	1756-L73	PLC PROCESSOR
8	1	ALLEN BRADLEY	1756-ENXT	PLC ETHERNET MODULE
9	1	ALLEN BRADLEY	1756-ENTR	PLC ETHERNET REDUNDANCY MODULE
10	3	ALLEN BRADLEY	1756-AAT8	PLC DISCRETE INPUT MODULE
11	1	ALLEN BRADLEY	1756-CW16B	PLC DISCRETE OUTPUT MODULE
12	2	ALLEN BRADLEY	1756-F9H4	PLC ANALOG INPUT MODULE
13	1	ALLEN BRADLEY	1756-OF8H	PLC ANALOG OUTPUT MODULE
14	7	ALLEN BRADLEY	1756-NC2	PLC FILL MODULE
15	3	ALLEN BRADLEY	1402RIFM 20F-F20A-2	FIN MODULE, DISCRETE INPUT
16	1	ALLEN BRADLEY	1402RIFM 40F-F20C-2	FIN MODULE, DISCRETE OUTPUT
17	2	ALLEN BRADLEY	1402-AP16-F-E-5	FIN MODULE, ANALOG INPUT
18	1	ALLEN BRADLEY	1402-B4F6A-3	FIN MODULE, ANALOG OUTPUT
19	3	ALLEN BRADLEY	1402-CABLE-X-A	FIN CABLE, DISCRETE INPUT
20	1	ALLEN BRADLEY	1402-CABLE-Y	FIN CABLE, DISCRETE OUTPUT
21	2	ALLEN BRADLEY	1402-ACABLE-X	FIN CABLE, ANALOG INPUT
22	1	ALLEN BRADLEY	1402-ACABLE-YWB	FIN CABLE, ANALOG OUTPUT
23	5	ALLEN BRADLEY	1402-RTB-20-A	FIN REMOVABLE TERMINAL BLOCK (RTB), 20 POLE
24	3	ALLEN BRADLEY	1402-RTB-16-B	FIN REMOVABLE TERMINAL BLOCK (RTB), 16 POLE
25	1	ALLEN BRADLEY	1783-CMS200P	ETHERNET SWITCH, STRATX 5000 CMS200P
26	1	DELL	OPTIPLEX 3090	DESKTOP WORKSTATION
27	1	HOPE	HIGHAL 15.5-4 OV8	19.5" WIDESCREEN PANEL MONITOR AND INDUSTRIAL TOUCH SCREEN, NON-TOUCH HMI
28	1	HOPE	MB-R3-WMT-BLK-4-USB	KEYBOARD
29	1	PFANNKBERG	17121000010	THERMOSTAT hoef a068324d
30	2	PFANNKBERG	11832184508	COOLING FAN KIT 8" hoef H04191414
31	2	PFANNKBERG	1173004058	FILLER KIT hoef B9134424v
32	1	NOT USED	NOT USED	NOT USED
33	1	NOT USED	NOT USED	NOT USED
34	1	NOT USED	NOT USED	NOT USED
35	1	EATON	PZC2-01A-N4-SP	CIRCUIT BREAKER, 10A a0 1406-m1100
36	7	EATON	PZC2-03-N4-SP	CIRCUIT BREAKER, 3A a0 1406-m1100
37	6	EATON	PZC2-03-N4-SP	CIRCUIT BREAKER, 3A a0 1406-m1100
38	1	TRANSISTOR	1104-15-000	SURGE SUPPRESSOR, DR-REP-120-10
39	-	NOT USED	NOT USED	NOT USED
40	1	PHOENIX CONTACT	5600461	CONVENIENCE OUTLET, DUPLEX a0 1402-ve115
41	2	PHOENIX CONTACT	2866763	24VDC POWER SUPPLY, QUANT 15A a0 1068-e240a
42	1	PHOENIX CONTACT	2320187	24VDC REDUNDANCY MODULE, QUINT-DIOE12-24VDC a0 1068-240a
43	20	PHOENIX CONTACT	3640032	FUSED TERMINAL BLOCK, GREY, 1/4" a0 1402-0b1120
44	45	PHOENIX CONTACT	3644102	TERMINAL BLOCK, GREY, 1/4" a0 1402-0b1120
45	5	PHOENIX CONTACT	3644128	GROUNDING TERMINAL BLOCK, UT 4-PE a0 1402-0b1120
46	10	PHOENIX CONTACT	3644268	END COVER, GREY, D-17-310, 22MM a0 1402-0b1120
47	32	PHOENIX CONTACT	0600886	END COVER, ENB 3SN a0 1402-0b1120
48	20	PHOENIX CONTACT	3032224	PLUG-IN BRIDGE, RED (50) FBS 50-6 a0 1402-0b1120
49	1	PHOENIX CONTACT	3032211	PLUG-IN BRIDGE, BLUE (50) FBS 50-6 a0 1402-0b1120
50	1	PHOENIX CONTACT	0800307	TERMINAL STOP MARKER CARRIER, UBEO a0 1402-0b1120
51	12	HOFFMAN	P-55KD	GROUND BAR
52	1	HOFFMAN	ALF-SVND	DOOR SWITCH (FOR LIGHT)
53	1	HOFFMAN	DAH-9001	PANEL HEATER
54	AR	ALLEN BRADLEY	DH-1691	DM RAIL
55	-	NOT USED	NOT USED	NOT USED
56	-	NOT USED	NOT USED	NOT USED
57	AR	PANDUIT	FX2XLG8	2" X 4" WIRING DUCT, GRAY, NARROW SLOT, TYPE F
58	AR	PANDUIT	C2LWB	2" WIRING DUCT COVER, GRAY
59	AR	PANDUIT	FX2XLVW6	2" X 4" WIRING DUCT, WHITE, NARROW SLOT, TYPE F
60	AR	PANDUIT	C2LWB	2" WIRING DUCT COVER, WHITE
61	AR	PANDUIT	FX2XLG8	3" X 4" WIRING DUCT, GRAY, NARROW SLOT, TYPE F
62	AR	PANDUIT	C2LWB	3" WIRING DUCT COVER, GRAY
63	AR	PANDUIT	FX2XLVW6	3" X 4" WIRING DUCT, WHITE, NARROW SLOT, TYPE F
64	AR	PANDUIT	C2LWB	3" WIRING DUCT COVER, WHITE
65	AR	PANDUIT	FX2XLG8	4" X 4" WIRING DUCT, GRAY, NARROW SLOT, TYPE F
66	AR	PANDUIT	CA2LB	4" WIRING DUCT COVER, GRAY
67	AR	PANDUIT	FX4XWB6	4" X 4" WIRING DUCT, WHITE, NARROW SLOT, TYPE F
68	AR	PANDUIT	CA2LB	4" WIRING DUCT COVER, WHITE
69	AR	PANDUIT	FX2XBL6	2" X 4" WIRING DUCT, BLUE, NARROW SLOT, TYPE F
70	AR	PANDUIT	C2LWB	2

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City of Meridian
Client/Project
Meridian Water Resource
Recovery Facility
Tertiary Filtration
Facilities
Meridian, Idaho

PROJECT NO.: 2002003136	
Name: 031365004-603	
Scale: NO SCALE	
VLM	2004.06.21
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Title	
MEMBRANE BUILDING	
PLC PANEL WIRING DIAGRAM	

Revision:

Drawing No. **500-1-503**

7/27 E. Riverpark Lane #130
Boise, Idaho 83706
Tel: +1.208.345.5865
www.stanlec.com

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Issued	By	App'd	Y/N
1	JFM	PMW	2024.04.28
0	JFM	PMW	2024.04.27

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MERIDIAN

Client/Project
CITY OF MERIDIAN
MERIDIAN WASTE
RECOVERY FACI
TERTIARY FILTRA
FACILITIES
MERIDIAN, IDAHO

Project No.: 2002003136
 File Name: 031365004-605

Scale: NO SCALE

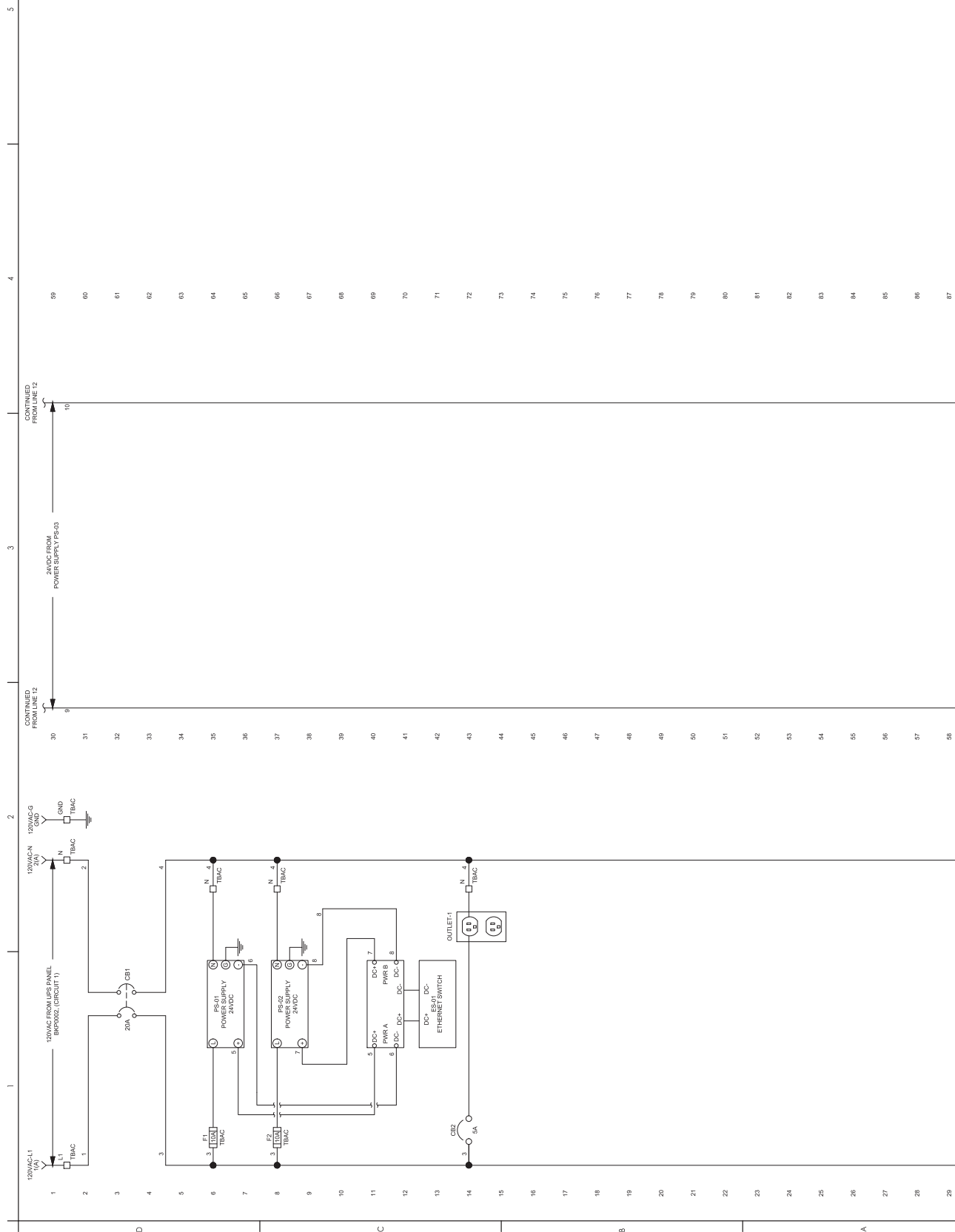
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MEMBRANE BUILDING
COMMUNICATIONS PANEL WIRIN

DIAGRAM

Revision: _____
Drawing No. _____

500-I-505





SCFB3PLC0001
CHEMICAL FEED BUILDING 3 PLC CONTROL PANEL

Revision:
Drawing No.,

Drawing No.
530-1-501

Client/Project
CITY OF MERIDIAN
MERIDIAN WATER RESOURCE
RECOVERY FACILITY
TERTIARY FILTRATION
FACILITIES
MERIDIAN, IDAHO

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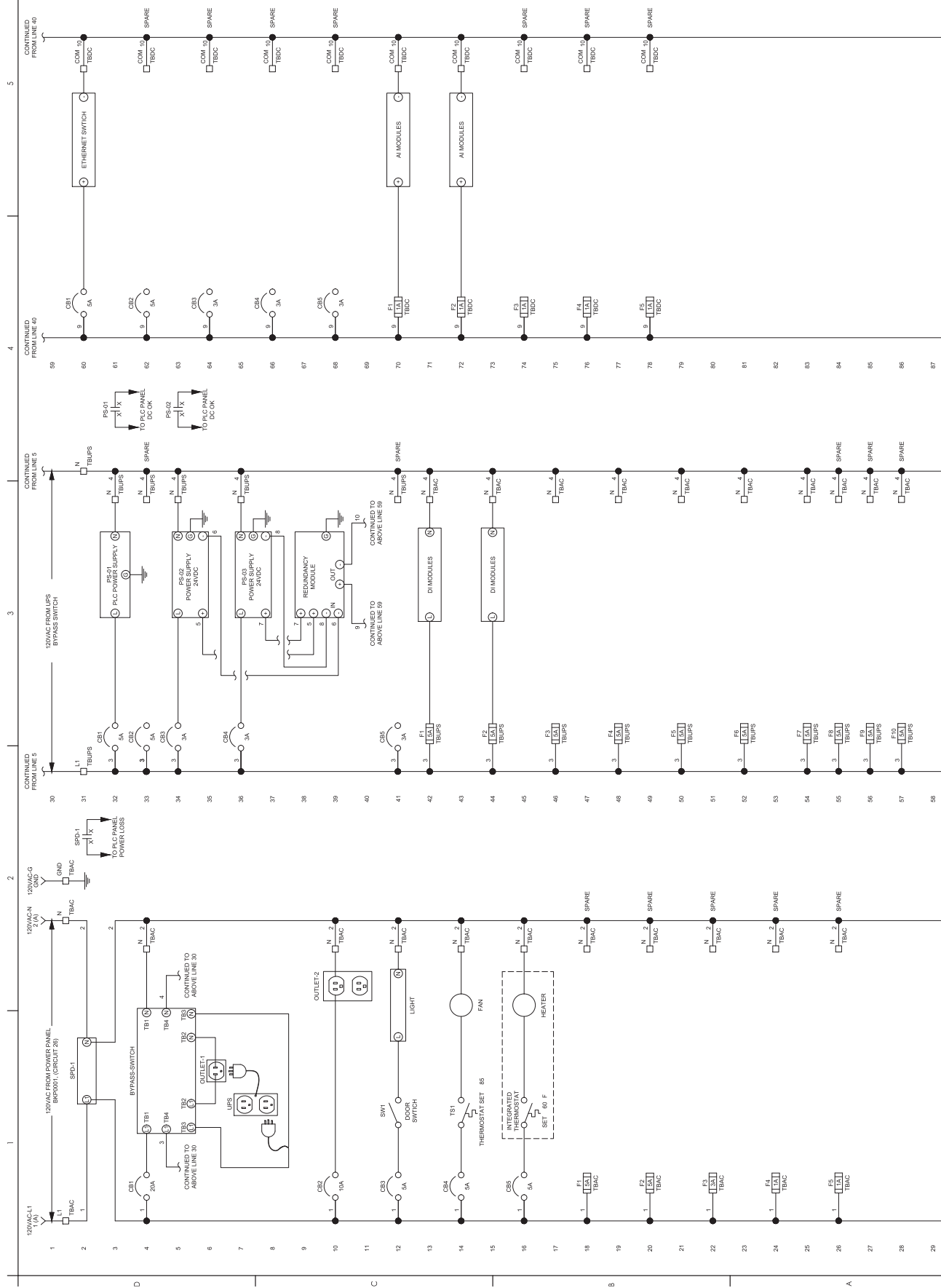
GENERAL SHEET NOTES

1. DO NOT REMOVE OR CUTOFF PANDUIT FINGERS FROM ADJACENT WIREWAY.
2. MAXIMUM EQUIPMENT MOUNTED DEPTH 3".
3. MAXIMUM EQUIPMENT MOUNTED HEIGHT 6".
4. U.L. LABEL LOCATED ON INSIDE THE PANEL DOOR.

PANEL LABEL		
LABEL	PANEL TAG	DESCRIPTION
A	STFB3PLC0001	CHEMICAL FEED BLDG 3 PLC CONTROL PANEL

BILL OF MATERIAL

ITEM NO	QTY	MANUFACTURER	MODEL NUMBER	DESCRIPTION
1	1	SQWAW	SCE-00459Fcd	ENCLOSURE
2	1	SQWAW	SCE-00459F1	BACK PANEL
3	2	SQWAW	SCE-00459P20	SIDE PANEL
4	1	SQWAW	SCE-01180D	ENCLOSURE LIGHT
5	1	ALLEN BRADLEY	1756-A17	PLC RACK, 17 SLOT
6	1	ALLEN BRADLEY	1756-P47S	PLC POWER SUPPLY
7	1	ALLEN BRADLEY	1756-L73	PLC PROCESSOR
8	1	ALLEN BRADLEY	1756-B2T	PLC ETHERNET MODULE
9	1	ALLEN BRADLEY	1756-B2TR	PLC ETHERNET/REDUNDANCY MODULE
10	3	ALLEN BRADLEY	1756-A1B	PLC DISCRETE INPUT MODULE
11	1	ALLEN BRADLEY	1756-P0W1B1	PLC DISCRETE INPUT MODULE
12	1	ALLEN BRADLEY	1756-A5B	PLC ANALOG INPUT MODULE
13	1	ALLEN BRADLEY	1756-P5B4	PLC ANALOG OUTPUT MODULE
14	3	ALLEN BRADLEY	1756-42	PLC FILL MODULE
15	3	ALLEN BRADLEY	1402-RP1A 20F F20A-2	PLC MODULE, DISCRETE INPUT
16	1	ALLEN BRADLEY	1402-RP1A 40F F20-2	PLC MODULE, DISCRETE OUTPUT
17	2	ALLEN BRADLEY	1402-AP1A 4-F-5	PLC MODULE, ANALOG INPUT
18	1	ALLEN BRADLEY	1402-RAP1A-3	PLC MODULE, ANALOG OUTPUT
19	3	ALLEN BRADLEY	1402-CABLE-X	PLC CABLE, DISCRETE INPUT
20	1	ALLEN BRADLEY	1402-CABLE-Y	PLC CABLE, DISCRETE OUTPUT
21	2	ALLEN BRADLEY	1402-CABLE-LD	PLC CABLE, ANALOG INPUT
22	1	ALLEN BRADLEY	1402-CABLE-WB	PLC CABLE, ANALOG OUTPUT
23	5	ALLEN BRADLEY	1402-RTB-30-A	PLC REMOVABLE TERMINAL BLOCK RTB, 30 POLE
24	3	ALLEN BRADLEY	1402-RTB-16-A	PLC REMOVABLE TERMINAL BLOCK RTB, 16 POLE
25	1	ALLEN BRADLEY	1753-CMS-0P	ETHERNET SWITCH, STRATIX 5300
26	1	DELL	OPTIPLEX 3080	DESKTOP WORKSTATION
27	1	HOPE	HIS-M119-5-F10B	19" MONITOR PANEL, 1900T MONITOR AND 1900S-T19 TOUCH SCREEN
28	1	HOPE	M3-R32VMT-BLK-4-USB	NON-TOUCH MONITOR
29	2	PFANNENBERG	1712100010	HEATING RADIATOR
30	2	PFANNENBERG	1163314505	COOLING FAN KIT, F
31	2	PFANNENBERG	1173004505	FILTER KIT
32	1	EATON	SP-9000	3P UPS, TOWER, 3000VA, 2700W, TRUE SINE WAVE, WITH NETWORK CARD
33	1	EATON	EBP-1003	PS/PPS REPLACEMENT BATTERY PACK USED WITH SP9000
34	1	EATON	FAZ-C210-1-NA-SP	CIRCUIT BREAKER, 20A
35	1	EATON	FAZ-C210-1-NA-SP	CIRCUIT BREAKER, 10A
36	7	EATON	FAZ-C51-1-NA-SP	CIRCUIT BREAKER, 5A
37	6	EATON	FAZ-C31-1-NA-SP	CIRCUIT BREAKER, 3A
38	1	TRANSPECTOR	1104-15-000	SURGE SUPPRESSOR, 0R, 15A, 0.01S
39	1	PHOENIX CONTACT	29630900	CONVENIENCE OUTLET, SIMPLEX
40	1	PHOENIX CONTACT	5600461	CONVENIENCE OUTLET, DUPLEX
41	2	PHOENIX CONTACT	3866763	3-POLE POWER SUPPLY, 10A
42	1	PHOENIX CONTACT	2203757	2-POLE REDUNDANCY MODULE, 0.01S, 0.01S, 2.5A, 0.01S
43	20	PHOENIX CONTACT	3540602	FUSED TERMINAL BLOCK, UT 4-4ESI
44	40	PHOENIX CONTACT	3540612	TERMINAL BLOCK, GREY, UT 4
45	5	PHOENIX CONTACT	3541128	GROUNDING TERMINAL BLOCK, UT 4-4E
46	10	PHOENIX CONTACT	3540728	END COVER, GREY, DUT 2.5/10, 23MM
47	32	PHOENIX CONTACT	6800886	END ANCHOR, 68S 35N
48	20	PHOENIX CONTACT	3502224	PLUG-IN BRIDGE, RED 150I, FBS 50-A
49	1	PHOENIX CONTACT	3502211	PLUG-IN BRIDGE, BLUE 150I, FBS 50-A
50	1	PHOENIX CONTACT	08003027	TERMINAL STRIP MARKER CARRIER, 100
51	12	HOFFMAN	P-05AK	GROUND BAR
52	1	HOFFMAN	AL-F3WD	DOOR SWITCH FOR LIGHT
53	1	HOFFMAN	DAH-0001	PANEL HEATER
54	AR	ALLEN BRADLEY	DR-100	DIN RAIL
55	AR	C&C POWERS	63802-40	BYPASS SWITCH, UPS
56	1	NOT USED	NOT USED	NOT USED
57	AR	PANUDIT	F2X4L8G	2" X 4" WIRING DUCT, GRAY, NARROW SLOT, TYPE F
58	AR	PANUDIT	CL8.06	2" WIRING DUCT COVER, GRAY
59	AR	PANUDIT	F2X4LWH6	2" X 4" WIRING DUCT, WHITE, NARROW SLOT, TYPE F
60	AR	PANUDIT	CL8LWH6	2" WIRING DUCT COVER, WHITE
61	AR	PANUDIT	F2X4L8G	2" X 4" WIRING DUCT, GRAY, NARROW SLOT, TYPE F
62	AR	PANUDIT	CL8.06	2" WIRING DUCT COVER, GRAY
63	AR	PANUDIT	F2X4LWH6	2" X 4" WIRING DUCT, WHITE, NARROW SLOT, TYPE F
64	AR	PANUDIT	F2X4L8G	2" WIRING DUCT COVER, WHITE
65	AR	PANUDIT	CL8.06	4" WIRING DUCT COVER, GRAY
66	AR	PANUDIT	F2X4LWH6	4" X 4" WIRING DUCT, WHITE, NARROW SLOT, TYPE F
67	AR	PANUDIT	CL8LWH6	4" WIRING DUCT COVER, WHITE
68	AR	PANUDIT	F2X4B8	2" X 4" WIRING DUCT, BLUE, NARROW SLOT, TYPE F
69	AR	PANUDIT	CL8LWH6	2" WIRING DUCT COVER, BLUE





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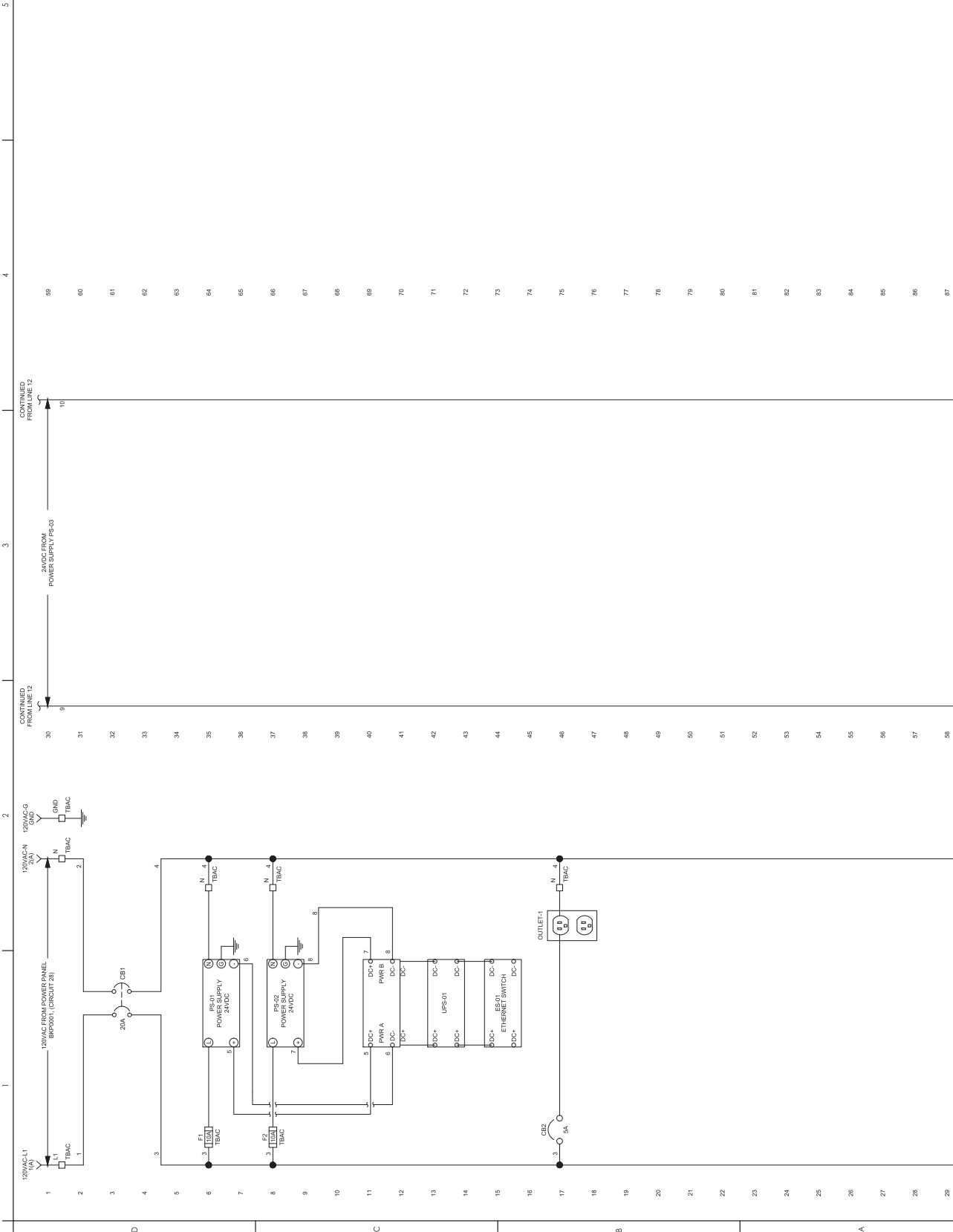
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Client/Project
CITY OF MERIDIAN
MERIDIAN WATER RESOURCE
RECOVERY FACILITY
TERTIARY FILTRATION
FACILITIES
MERIDIAN, IDAHO
Project No.: 202003136
As Issued: 03/15/2020
Scale: NO SCALE
Date: 03/15/2020
Drawn: JWA
Checked: JWA
Title: 530-I-505

Revision:
Drawing No.:
530-I-505

CHEMICAL BUILDING 3 COMM.
PANEL WIRING DIAGRAM



GENERAL SHEET NOTES

1. PROVIDE ALL WORK IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
2. FURNISH AND INSTALL HOUSEKEEPING PAD.
3. CONFIGURE THE HORIZONTAL BUS SO IT CAN CONNECT TO FUTURE MCC SECTIONS.

727 E. Riverpark Lane #150
Boise, Idaho 83706
Tel: +1.208.345.5865
www.stantec.com



CONSULTANT

id	name	type	status
001	John Doe	Employee	Active
002	Jane Smith	Employee	Active
003	Bob Johnson	Employee	Active
004	Alice Brown	Employee	Active
005	Charlie Davis	Employee	Active
006	Eve Wilson	Employee	Active
007	Frank Miller	Employee	Active
008	Grace Lee	Employee	Active
009	Henry Kim	Employee	Active
010	Ivy White	Employee	Active
011	Jack Black	Employee	Active
012	Karen Green	Employee	Active
013	Liam Grey	Employee	Active
014	Mia Blue	Employee	Active
015	Noah Yellow	Employee	Active
016	Olivia Purple	Employee	Active
017	Peter Red	Employee	Active
018	Quinn Orange	Employee	Active
019	Rachel Silver	Employee	Active
020	Sam Gold	Employee	Active
021	Tina Bronze	Employee	Active
022	Uma Copper	Employee	Active
023	Victor Iron	Employee	Active
024	Wendy Steel	Employee	Active
025	Xavier Aluminum	Employee	Active
026	Yara Nickel	Employee	Active
027	Zoe Zinc	Employee	Active
028	Adam Lead	Employee	Active
029	Ella Tin	Employee	Active
030	Frank Cadmium	Employee	Active
031	Grace Silver	Employee	Active
032	Henry Gold	Employee	Active
033	Ivy Platinum	Employee	Active
034	Jack Palladium	Employee	Active
035	Karen Rhodium	Employee	Active
036	Liam Iridium	Employee	Active
037	Mia Osmium	Employee	Active
038	Noah Rhenium	Employee	Active
039	Olivia Ruthenium	Employee	Active
040	Peter Rhodium	Employee	Active
041	Quinn Silver	Employee	Active
042	Rachel Gold	Employee	Active
043	Sam Platinum	Employee	Active
044	Tina Palladium	Employee	Active
045	Uma Rhodium	Employee	Active
046	Victor Iridium	Employee	Active
047	Wendy Osmium	Employee	Active
048	Xavier Rhenium	Employee	Active
049	Yara Ruthenium	Employee	Active
050	Zoe Rhodium	Employee	Active
051	Adam Silver	Employee	Active
052	Ella Gold	Employee	Active
053	Frank Platinum	Employee	Active
054	Grace Palladium	Employee	Active
055	Henry Rhodium	Employee	Active
056	Ivy Iridium	Employee	Active
057	Jack Osmium	Employee	Active
058	Karen Rhenium	Employee	Active
059	Liam Ruthenium	Employee	Active
060	Mia Rhodium	Employee	Active
061	Noah Silver	Employee	Active
062	Olivia Gold	Employee	Active
063	Peter Platinum	Employee	Active
064	Quinn Palladium	Employee	Active
065	Rachel Rhodium	Employee	Active
066	Sam Iridium	Employee	Active
067	Tina Osmium	Employee	Active
068	Uma Rhenium	Employee	Active
069	Victor Ruthenium	Employee	Active
070	Wendy Rhodium	Employee	Active
071	Xavier Silver	Employee	Active
072	Yara Gold	Employee	Active
073	Zoe Platinum	Employee	Active
074	Adam Palladium	Employee	Active

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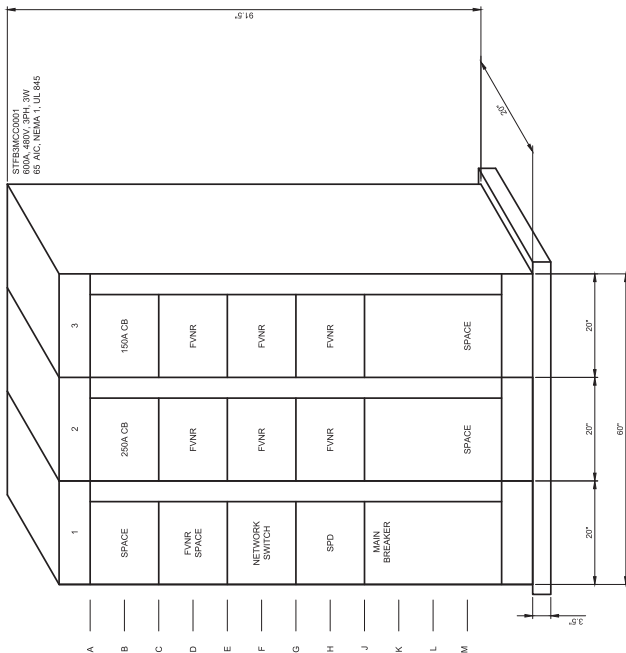
Client/Project
CITY OF MERIDIAN
MERIDIAN WATER RESOURCE
RECOVERY FACILITY
TERTIARY FILTRATION
FACILITIES
MERIDIAN, IDAHO

Project No.: 2002003136
 File Name: C0134500E-202
 Scale: NO SCALE
 JAC MSA DAR 2024.06.21
 Date Date Date 0000.00.00

DATE	BY	CHKD.	THRU	FILE NO.
MEMBRANE BUILDING				
EQUIPMENT ELEVATION - II				

Revision: _____
Drawing No. _____

Drawing No.
500-E-202



ELEVATION - MOTOR CONTROL CENTER STFB3MCC0001

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Project No. : 2002003136	Title	
Rev Name: C0136500F-603	MEMBRANE BUILDING SINGLE-LINE DIAGRAM - III	
Scale: NO SCALE		
JAC	WJA	DAR
Dwn.	Dgn.	Chd.
		2024.06.21
		YMYJAWJDO

Revision:
Drawing No.
500-E-603

DRAWING NO.
500-E-603



 SHEET KEYNOTES

- A. MCC TO BE PROVIDED WITH STRATIX 1783-CMS20DN NETWORK SWITCH OR APPROVED E UAL.
- B. FURNISH AND INSTALL POWER TO ETHERNET SWITCH FROM UPS PANEL STFB3BKPO002.

TAG	HP	VA
STFB3MJA0001	10	11,154
STFB3HP0001	-	72,328
STFB3EXF0001	5	6,055
STFB3EXP0002	5	6,055
STFB3EXF0003	10	11,154
25. OF LARGEST MOTOR	-	2,789
TOTAL		109,535

LOAD CALCULATION - MCC00001

NO SCALE

Revision: _____
Drawing No. _____

Drawing No.
500-E-604

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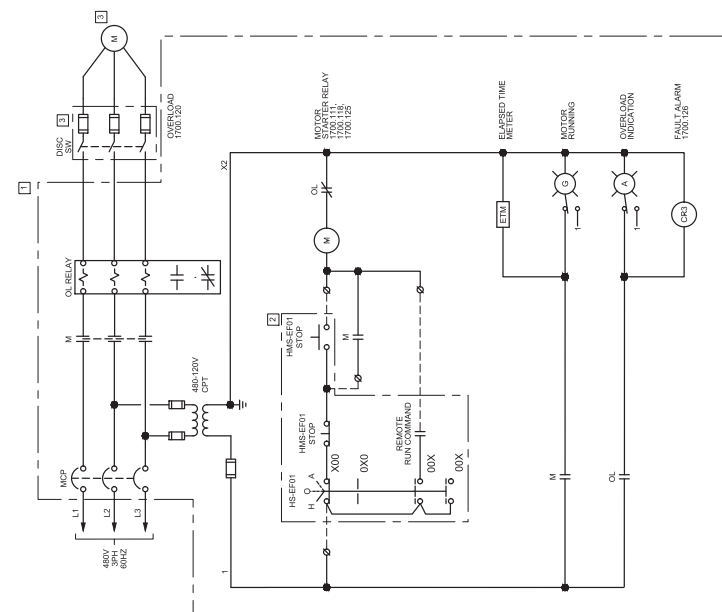
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Project No.: 2002009130	File Name: 03136500F-604	
Scale: NO SCALE		
JAC	MSA	DATE 2024.06.21
Dwn.	Dgn.	Chgd. YYYY.MM.DD
Title		
MEMBRANE BUILDING		
SINGLE-LINE DIAGRAM - IV		

Revision:

Drawing No.

500 E 404



MOTOR RUNNING STATUS TO HVAC HVC PANEL

FAULT ALARM TO HVAC HVC PANEL

TAGGING FOR REFERENCE FANS

FAN
STFB3EXH0001
STFB3EXH0002
STFB3EXH0003

TYPICAL FVNR FAN CONTROL SCHEMATIC

STFB3EXH#0002	EXHAUST FAN 2
STFB3EXH#0003	EXHAUST FAN 3

LOCATION LEGEND

1	MCC STARTER
2	HVAC HVC PANEL
3	FIELD

	U/L	pdky	%g	panssi
80-90 U/L	SMM	VTV	NOCTO	Y
OC 07 1202	SMM	VTV	NOCTO	B
OC 21 1202	SMM	SI	NOCTO	C
12 10 1202	SMM	SI	NOCTO	D
06 10 1202	SMM	SI	NOCTO	E

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MERIDIAN

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Project No.: 2002003136			
File Name: C0136500E-407			
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Qua	Des	Chad	www.msa.co

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title				

MEMBRANE BUILDING
TYPICAL 480V 3PH
VNR SCHEMATIC

Revision:

Drawing No.
500-E-607