CITY OF FLINT FINANCE DEPARTMENT - DIVISION OF PURCHASES AND SUPPLIES

City Hall
1101 S. Saginaw Street, M203 – Flint, Michigan 48502
(810) 766-7340 FAX (810) 766-7240 www.cityofflint.com TDD 766-7120



REQUEST FOR PROPOSAL

OWNER/RETURN TO:

THE CITY OF FLINT FINANCE DEPARTMENT - DIVISION OF PURCHASES AND SUPPLIES 1101 S. SAGINAW ST., ROOM 203, 2nd FLOOR FLINT, MI 48502

PROPOSAL NO.:	19000539	

SCOPE OF WORK:

The City of Flint, Finance Department – Division of Purchases & Supplies, is soliciting sealed proposals for providing:

WATER POLLUTION CONTROL THIRD AVENUE PUMPING STATION SWITCHGEAR & MOTOR CONTROL REPLACEMENT INSTALLATION

Per the attached additional requirements.

If your firm is interested in providing the requested goods or services, please submit one (1) original and one (1) copy of your detailed proposal to the City of Flint, Finance Department - Division of Purchases and Supplies, 1101 S. Saginaw St., Room 203, Flint, MI, 48502, July 23. 2019 @ 3:00 PM (EST). Please note: all detailed proposals received after 3:00 PM (EST) will not be considered. Proposals must be in a sealed envelope clearly identifying the proposal and number. Faxed proposals into the Finance Department - Division of Purchases and Supplies are not accepted.

All additional proposal documents, requirements, addendums, specifications, and plans/drawings (if utilized) are available on the Purchasing page of the City of Flint's web site at https://www.cityofflint.com/finance/purchasing/bids-2/ under "open bids" and the specific bid or proposal number assigned to this notice.

Successful proposers should complete and submit a vendor application, IRS W-9 Form, and Vendor ACH Payment Authorization Form with the City of Flint. Contact (810)766-7266 or accountspayable@citvofflint.com for Vendor ACH Payment Authorization Form and instructions.

Results may be viewed next business day online at https://www.citvofflint.com/finance/purchasing/results/ under "bid results".

Any questions regarding the proposal process may be directed to Joyce McClane in writing by **no later than 7/17/19** to jmcclane@cityofflint.com.

Sincerely,

Joyce A. McOlane

Finance Department - Division of Purchases and Supplies

INSTRUCTIONS TO VENDORS

- 1) PRE-BID INFORMATION AND QUESTIONS: Each proposal that is timely received will be evaluated on its merit and completeness of all requested information. In preparing proposals, Proposers are advised to rely only upon the contents of this RFP and accompanying documents and any written clarifications or addenda issued by the City of Flint. If a Proposer finds a discrepancy, error or omission in the RFP package, or requires any written addendum thereto, the Proposer is requested to notify the Purchasing contact noted on the cover of this RFP, so that written clarification may be sent to all prospective Proposers. THE CITY OF FLINT IS NOT RESPONSIBLE FOR ANY ORAL INSTRUCTIONS. All questions must be submitted in writing to the Purchasing Department before any Pre-Bid Question Deadline (if specified) or at least one (1) week prior to the proposal opening date indicated on the front of this document.
- 2) RFP MODIFICATIONS: The City of Flint has the right to correct, modify or cancel the RFP, in whole or in part, or to reject any Proposal, in whole or in part, within the discretion of the City of Flint, or their designee. If any such changes are made, all known recipients of the RFP will be sent a copy of such changes. If any changes are made to this RFP document by any party other than the City of Flint, the original document in the City of Flint's files takes precedence.

3) PROPOSAL SUBMISSION:

- a) The Proposer must include the following items, or the proposal may be deemed non-responsive:
 - i) All forms contained in this RFP, fully completed.
- b) Proposals must be submitted to the Finance Department Purchases and Supplies, City of Flint, 1101 S. Saginaw Street Room 203, Flint, Michigan 48502 by the date and time indicated as the deadline. The Purchasing Department time stamp will determine the official receipt time. It is each Proposer's responsibility to insure that its' proposal is time stamped by the Purchasing Department by the deadline. This responsibility rests entirely with the Proposer, regardless of delays resulting from postal handling or for any other reasons. Proposals will be accepted at any time during the normal course of business only, said hours being 8:00 a.m. to 5:00 p.m. Local Time, Monday through Friday, legal holidays as exception.
- c) Proposals must be enclosed in a sealed, non-transparent envelope, box or package, and clearly marked on the outside with the following: RFP Title, RFP Number, Deadline and Proposer's name.
- d) Submission of a proposal establishes a conclusive presumption that the Proposer is thoroughly familiar with the Request for Proposals (RFP), and that the Proposer understands and agrees to abide by each and all of the stipulations and requirements contained therein.
- e) All prices and notations must be typed or printed in ink. No erasures are permitted. Mistakes may be crossed out and corrections must be initialed in ink by the person(s) signing the bid.
- f) Proposals sent by email, facsimile, or other electronic means will not be considered unless specifically authorized in this RFP.
- g) All costs incurred in the preparation and presentation of the proposal are the Proposer's sole responsibility; no pre-bid costs will be reimbursed to any Proposer. All documentation submitted with the proposal will become the property of the City of Flint.
- h) Proposals must be held firm for a minimum of 120 days.
- 4) **EXCEPTIONS:** Proposer shall clearly identify any proposed deviations from the Terms or Scope in the Request for Proposal. Each exception must be clearly defined and referenced to the proper paragraph in this RFP. The exception shall include, at a minimum, the proposed substitute language and opinion

as to why the suggested substitution will provide equivalent or better service and performance. If no exceptions are noted in the proposal, the City of Flint will assume complete conformance with this specification and the successful Proposer will be required to perform accordingly. Proposals not meeting all requirements may be rejected.

- 5) **DUPLICATE BIDS:** No more than one (1) proposal from any Proposer including its subsidiaries, affiliated companies and franchises will be considered by the City of Flint. In the event multiple proposals are submitted in violation of this provision, the City will have the right to determine which proposal will be considered, or at its sole option, reject all such multiple proposals.
- 6) **WITHDRAWAL:** Proposals may only be withdrawn by written notice prior to the date and time set for the opening of proposals. No proposal may be withdrawn after the deadline for submission.
- 7) REJECTION/GOOD STANDING: The City of Flint reserves the right to reject any or all proposals, or to accept or reject any proposal in part, and to waive any minor informality or irregularity in proposals received if it is determined by the City of Flint, or their designee, that the best interest of the City will be served by doing so. No Proposal will be considered from any person, firm or corporation in arrears or in default to the City on any contract, debt, taxes or other obligation, or if the Proposer is debarred by the City of Flint from consideration for a contract award pursuant to Section 18-21.5 (d) of Article IV of the "Purchasing Ordinance of the City of Flint.
- 8) **PROCUREMENT POLICY:** Procurement for the City of Flint will be handled in a manner providing fair opportunity to all businesses. This will be accomplished without abrogation or sacrifice of quality and as determined to be in the best interest of the City. The City of Flint and their officials have the vested authority to execute a contract, subject to City Council and Mayoral approval where required.
- 9) PROPOSAL SIGNATURES: Proposals must be signed by an authorized official of the Proposer. Each signature represents binding commitment upon the Proposer to provide the goods and/or services offered to the City of Flint if the Proposer is determined to be the lowest Responsive and Responsible Proposer.
- 10) CONTRACT AWARD/SPLIT AWARDS: The City of Flint reserves the right to award by item, group of items, or total proposal to the lowest responsive, responsible Proposer. The Proposer to whom the award is made will be notified at the earliest possible date. Tentative acceptance of the proposal, intent to recommend award of a contract and actual award of the contract will be provided by written notice sent to the Proposer at the address designated in the proposal if a separate Agreement is required to be executed. After a final award of the Agreement by the City of Flint, the Contractor/Vendor must execute and perform said Agreement. All proposals must be firm for at least 120 days from the due date of the proposal. If, for any reason, a contract is not executed with the selected Proposer within 14 days after notice of recommendation for award, then the City may recommend the next lowest responsive and responsible Proposer.
- 11) **NO RFP RESPONSE:** Proposers who receive this RFP but who do not submit a proposal should return this RFP package stating "No Proposal" and are encouraged to list the reason(s) for not responding. Failure to return this form may result in removal of the Proposer's name from all future lists.

- 12) FREEDOM OF INFORMATION ACT REQUIREMENTS: Proposals are subject to public disclosure after the deadline for submission in accordance with state law.
- 13) **ARBITRATION:** Contractor/Vendor agrees to submit to arbitration all claims, counterclaims, disputes and other matters in question arising out of or relating to this agreement or the breach thereof. The Contractor's agreement to arbitrate shall be specifically enforceable under the prevailing law of any court having jurisdiction to hear such matters. Contractor's obligation to submit to arbitration shall be subject to the following provisions:
 - (a) Notice of demand for arbitration must be submitted to the City in writing within a reasonable time after the claim; dispute or other matter in question has arisen. A reasonable time is hereby determined to be fourteen (14) days from the date the party demanding the arbitration knows or should have known the facts giving rise to his claim, dispute or question. In no event may the demand for arbitration be made after the time when institution of legal or equitable proceedings based on such claim dispute or other matters in question would be barred by the applicable statute of limitation.
 - (b) Within fourteen (14) days from the date demand for arbitration is received by the City, each party shall submit to the other the name of one person to serve as an arbitrator. The two arbitrators together shall then select a third person, the three together shall then serve as a panel in all proceedings. Any decision concurred in by a majority of the three shall be a final binding decision.
 - (c) The final decision rendered by said arbitrators shall be binding and conclusive and shall be subject to specific enforcement by a court of competent jurisdiction.
 - (d) The costs of the arbitration shall be split and borne equally between the parties and such costs are not subject to shifting by the arbitrator.
- 14) PROPOSAL HOLD: The City of Flint may hold proposals for a period of one hundred twenty (120) days from opening, for the purpose of reviewing the results and investigating the qualifications of proposers prior to making an award.
- 15) **NONCOMPLIANCE**: Failure to deliver in accordance with specifications will be cause for the City of Flint and they may cancel the contract or any part thereof and purchase on the open market, charging any additional cost to the Contractor/Vendor.
- 16) **DISCLAIMER OF CONTRACTUAL RELATIONSHIP:** Nothing contained in these documents shall create any contractual relationship between the City and any Subcontractor or Sub-subcontractor.
- 17) **ERRORS AND OMISSIONS:** Proposer is not permitted to take advantage of any obvious errors or omissions in specifications.
- 18) **INTERPRETATION:** In the event that any provision contained herein shall be determined by a court of competent jurisdiction or an appropriate administrative tribunal to be contrary to the provision of law or to be unenforceable for any reason, then, to the extent necessary and possible to render the remainder of this Agreement enforceable, such provision may be modified or severed by such court or administrative tribunal having jurisdiction over this Agreement and the interpretation thereof, or the parties hereto, so as to, as nearly as possible, carry out the intention of the parties hereto, considering the purpose of the entire Agreement in relation to such provision.
- 19) **LAWS AND ORDINANCES:** The proposer shall obey and abide by all of the laws, rules and regulations of the Federal Government, State of Michigan, Genesee County and the City of Flint,

- applicable to the performance of this agreement, including, but not limited to, labor laws, and laws regulating or applying to public improvement, local government, and its operational requirements.
- 20) **LOCAL PREFERNECE:** Proposers/bidders located within the corporate city limits of Flint, Michigan may be given a seven percent (7%) competitive price advantage. Additionally, if the lowest responsible bidder is not located within the limits of the City of Flint, but is located within the County of Genesee, and said bidder does not exceed the bid of the lowest non-local bidder by more than three and one-half percent (3-1/2%), then said lowest Genesee County bidder may be determined to be the lowest responsible bidder, and make the award to such Genesee County bidder accordingly, subject to the approval of the city council. If the lowest non-local bidder does not exceed that of any proposers/bidders by (7%) inside the City of Flint or (3-1/2%) inside the County of Genesee, then the Purchasing Director shall be allowed to request that the lowest local vendor match the price offered by the lowest non-local vendor.
- 21) MATERIAL WORKMANSHIP AND STANDARDS OF PERFORMANCE: The proposer agrees to exercise independent judgment and to complete performance under this Agreement in accordance with sound professional practices. In entering into this Agreement, the City is relying upon the professional reputation, experience, certification and ability of the proposer by him/her or by others employed by him/her and working under his/her direction and control. The continued effectiveness of this Agreement during its term or any renewal term shall be contingent, in part, upon the proposer maintaining his/her operating qualifications in accordance with the requirements of federal, state and local laws. All materials furnished must be new, of latest model and standard first grade quality, or best workmanship and design, unless otherwise expressly specified. Proposer, if required, must furnish satisfactory evidence of quality materials; offers of experimental or unproven equipment may be disregarded.
- 22) **MODIFICATIONS/CHANGES:** Any modification to this agreement must be in writing and signed by the authorized employee, officer, board or council representative authorized to make such modifications pursuant to the State law and local ordinances.
- 23) NON-COLLUSION: The proposer acknowledges that by signing this document that he/she is duly authorized to make said offer on behalf of the company he/she represents and that said bid is genuine and not sham or collusive and not made in the interests or on behalf of any person not therein named, and that he/she and said bidder have not directly induced or solicited any other person(s) or corporation to refrain from responding to this solicitation and that he/she and said bidder have not in any manner sought by collusion to secure to himself/herself and said bidder any advantage over any other proposer.
- 24) **NON-DISCRIMINATION:** Pursuant to the requirements of 1976 P.A. 453 (Michigan Civil Rights Act) and 1976 P.A. 220 (Michigan Handicapped Rights Act), the local unit and its agent agree not to discriminate against any employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment or a matter directly or indirectly related to employment because of race, color, religion, national origin, age, sex, height, weight, marital status or because of a handicap that is unrelated to the person's ability to perform the duties of nondiscrimination provision identical to this provision and binding upon any and all contractors and subcontractors. A breach of this covenant shall be regarded as a material breach of this contract.
- 25) **SUBCONTRACTING:** No subcontract work shall be started prior to the written approval of the subcontractor by the City. The City reserves the right to accept or reject any subcontractor.
- 26) **UNION COMPLIANCE:** Contractor agrees to comply with all regulations and requirements of any national or local union(s) that may have jurisdiction over any of the materials, facilities, services or personnel to be furnished by the City.

- 27) WAIVER: Failure of the City to insist upon strict compliance with any of the terms, covenants or conditions of this Agreement shall not be deemed a waiver of that term, covenant or condition or of any other term, covenant or condition. Any waiver or relinquishment of any right or power hereunder at any one or more times shall not be deemed a waiver or relinquishment of that right or power at any other time.
- 28) **PREVAILING WAGE:** If applicable, the successful proposer providing any contractual labor services must comply with all requirements and pay prevailing wages and fringe benefits on this project per the City's Resolution R-12 adopted 4/8/91. The bidder is aware of City of Flint Resolution #R-12 dated April 8, 1991, a copy of which is annexed hereto and incorporated herein, and agrees to abide by all of the applicable covenants and requirements set forth in said resolution. The prevailing wage information is available on the city's website @ www.cityofflint.com.
- 29) **CITY INCOME TAX WITHHOLDING:** Contractor and any subcontractor engaged in this contract shall withhold from each payment to his employees the City income tax on all of their compensation subject to tax, after giving effect to exemptions, as follows:
 - (a) Residents of the City:
 At a rate equal to 1% of all compensation paid to the employee who is a resident of the City of Flint.
 - (b) Non-residents:
 At a rate equal to 1/2% of the compensation paid to the employee for work done or services performed in the City of Flint.

These taxes shall be held in trust and paid over to the City of Flint in accordance with City ordinances and State law. Any failure to do so shall constitute a substantial and material breach of this contract.

- 30) **CONTRACT DOCUMENTS:** The invitation for proposal, instructions to proposal, proposal, affidavit, addenda (if any), statement of proposer's qualifications (when required), general conditions, special conditions, performance bond, labor and material payment bond, insurance certificates, technical specifications, and drawings, together with this agreement, form the contract, and they are as fully a part of the contract as if attached hereto or repeated herein.
- 31) **DISCLAIMER OF CONTRACTUAL RELATIONSHIP WITH SUBCONTRACTORS:** Nothing contained in the Contract Documents shall create any contractual relationship between the City and any Subcontractor or Sub-subcontractor.
- 32) **EFFECTIVE DATE**: Any agreement between the City and the contractor shall be effective upon the date that it is executed by all parties hereto.
- 33) **FORCE MAJURE:** Neither party shall be responsible for damages or delays caused by Force Majeure nor other events beyond the control of the other party and which could not reasonably have anticipated the control of the other party and which could not reasonably have been anticipated or prevented. For purposes of this Agreement, Force Majeure includes, but is not limited to, adverse weather conditions, floods, epidemics, war, riot, strikes, lockouts, and other industrial disturbances; unknown site conditions, accidents, sabotage, fire, and acts of God. Should Force Majeure occur, the parties shall mutually agree on the terms and conditions upon which the services may continue.
- 34) **INDEMNIFICATION:** To the fullest extent permitted by law, Contractor agrees to defend, pay on behalf of, indemnify, and hold harmless the City of Flint, its elected and appointed officials, employees and volunteers and other working on behalf of the City of Flint, including the Project Manager, against any and all claims, demands, suits, or losses, including all costs connected

therewith, and for any damages which may be asserted, claimed, or recovered against or from the City of Flint, its elected and appointed officials, employees, volunteers or others working on behalf of the City of Flint, by reason of personal injury, including bodily injury or death and/or property damage, including loss of use thereof, which may arise as a result of Contractor's acts, omissions, faults, and negligence or that of any of his employees, agents, and representatives in connection with the performance of this contract. Should the Contractor fail to indemnify the City in the above-mentioned circumstances, the City may exercise its option to deduct the cost that it incurs from the contract price forthwith.

- 35) **INDEPENDENT CONTRACTOR:** No provision of this contract shall be construed as creating an employer-employee relationship. It is hereby expressly understood and agreed that Contractor is an "independent contractor" as that phrase has been defined and interpreted by the courts of the State of Michigan and, as such, Contractor is not entitled to any benefits not otherwise specified herein.
- 36) **NO THIRD-PARTY BENEFICIARY:** No contractor, subcontractor, mechanic, material man, laborer, vendor, or other person dealing with the principal Contractor shall be, nor shall any of them be deemed to be, third-party beneficiaries of this contract, but each such person shall be deemed to have agreed (a) that they shall look to the principal Contractor as their sole source of recovery if not paid, and (b) except as otherwise agreed to by the principal Contractor and any such person in writing, they may not enter any claim or bring any such action against the City under any circumstances. Except as provided by law, or as otherwise agreed to in writing between the City and such person, each such person shall be deemed to have waived in writing all rights to seek redress from the City under any circumstances whatsoever.
- 37) **NON-ASSIGNABILITY:** Contractor shall not assign or transfer any interest in this contract without the prior written consent of the City provided, however, that claims for money due or to become due to Contractor from the City under this contract may be assigned to a bank, trust company, or other financial institution without such approval. Notice of any such assignment or transfer shall be furnished promptly to the City.
- 38) **NON-DISCLOSURE/CONFIDENTIALITY:** Contractor agrees that the documents identified herein as the contract documents are confidential information intended for the sole use of the City and that Contractor will not disclose any such information, or in any other way make such documents public, without the express written approval of the City or the order of the court of appropriate jurisdiction or as required by the laws of the State of Michigan.
- 39) **RECORDS PROPERTY OF CITY:** All documents, information, reports and the like prepared or generated by Contractor as a result of this contract shall become the sole property of the City of Flint.
- 41) **SEVERABILITY:** In the event that any provision contained herein shall be determined by a court or administrative tribunal to be contrary to a provision of state or federal law or to be unenforceable for any reason, then, to the extent necessary and possible to render the remainder of this Agreement enforceable, such provision may be modified or severed by such court or administrative tribunal so as to, as nearly as possible, carry out the intention of the parties hereto, considering the purpose of the entire Agreement in relation to such provision. The invalidation of one or more terms of this contract shall not affect the validity of the remaining terms.
- 42) **TERMINATION:** This contract may be terminated by either party hereto by submitting a notice of termination to the other party. Such notice shall be in writing and shall be effective 30 days from the date it is submitted unless otherwise agreed to by the parties hereto. Contractor, upon receiving such notice and prorated payment upon termination of this contract shall give to the City all pertinent records, data, and information created up to the date of termination to which the City, under the terms of this contract, is entitled.

- 43) **TIME PERFORMANCE:** Contractor's services shall commence immediately upon receipt of the notice to proceed and shall be carried out forthwith and without reasonable delay.
- 44) **EVALUATION OF PROPOSAL:** In the City's evaluation of proposals, at minimum: cost, serviceability, financial stability, and all requirements set forth in this document shall be considered as selection and award criteria unless otherwise specified.

CITY OF FLINT, MICHIGAN AFFIDAVIT

AFFIDAVIT FOR INDIVIDUAL

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COUNTY OF	S.S
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Subscribed and sworn to before me at	, in said County and State,
this day of	
My Commission expires, 20,	*Notary Public,County,
FOR	R CORPORATION
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(Official Title)	(Name of Corporation)
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My Commission expires	

FOR PARTNERSHIP

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*	Notary Public, County,
My Commission expires, 20	

NOTE: If executed outside of the State of Michigan, certificate by Clerk of the Court of Record, authenticating the Notary's Signature and authority should be attached.

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The City of Flint Water Pollution Control Facilities (WPC) is seeking bids from qualified electrical contractors for the replacement of obsolete General Electric Switchgear, Motor Control and related equipment in its Third Avenue Pumping Stations facility. Qualified contractors shall meet the following specifications:

1.0 General.

- 1.1 The contractor shall have a minimum of 7 years of experience in the installation of Medium Voltage Switchgear, Motor Control Equipment and related equipment in industrial municipal locations. The contractor shall also have 7 years of experience in municipal industrial ethernet, communication and telemetry work.
- 1.2 The contractor shall have a business office within 20 miles of the City of Flint, but the City may approve any firm upon satisfactory proof of qualifications.
- 1.3 The City of Flint reserves the right to add, subtract, delete or change any specification in the bid document. Additional work will be quoted separately and credits are to be given in the event of a deletion.
- 1.4 The contractor shall be responsible for engineering the installation of the switchgear. motor control, transformers, ATS, disconnects, communication and telemetry. The contractor shall have a State of Michigan certified Electrical Engineer on their staff. The Engineer shall be responsible for verifying the work outlined in Section 2 prior to installation. This will include review and approval of proposed prints from the contractor. The Engineer shall also be responsible for the integration of the new system with the existing system. Any recommendations made by the Engineer are subject to approval from the City. The Engineer may be required to be on-site during installation of the switchgear, motor control and telemetry and shall be available for 1 year after date of acceptance to address and correct problems.
- 1.5 The contractor shall adhere to the standard City of Flint contractual requirements including performance bonds and insurance certificates.
- 1.6 The switchgear and equipment scheduled for replacement, renovation, new installation or removal include, but are not limited to:
 1.6.1 Third Avenue Switchgear S4.

- 1.6.2 Third Avenue Medium Voltage Motor control centers.
- 1.6.3 Medium Voltage Transformers.
- 1.6.4 Disconnects and Automatic Transfer Switch.
- 1.6.4 Wiring, Conduits and raceway systems.
- 1.7 Any and all documentation generated shall be provided to the City in both print and AutoCAD 2002 or 2005 formats or Microsoft Word format, where appropriate. **Adobe Acrobat documents shall not be allowed.**The contractor shall supply "as-built" drawings. There shall be no generic or "Typical" drawings. Three copies of the print media shall be supplied. Each copy shall be in an appropriately labeled three-ring binder. AutoCAD and Word files shall be provided on a CD.
- 1.8 Any site visits to examine and inspect the work site and equipment shall be coordinated with Tim Donlan, Utilities Electrical Foreman and John Florshinger, Utilities Maintenance and SCADA Supervisor.

2.0 Scope of Work.

- 2.1 The contractor shall verify that all existing wiring will be able to be terminated at the proper locations in the new switchgear. If any wiring is unable to do so, the contractor shall consult with the designated project manager(s) for approved methods of correction.
- 2.2 The City will provide current drawings as well as new drawings from the manufacturer on which the contractor can base the work insofar as they are available. Current drawings located in the Appendix are not guaranteed to be completely accurate. The drawings may be upgraded as the project progresses. The drawings shall include medium voltage drive information and wiring.
- 2.3 The contractor shall pull back all existing spare wiring from the switchgear or other equipment to the first pull box. The City shall assume responsibility from that point.
- 2.4 The contractor shall be responsible for the removal of the existing switchgear and equipment and documenting all existing terminations at the time of removal. This documentation shall be provided to the City. The removed switchgear and equipment sections shall be taken outside of the building and placed in a location deemed acceptable by Utilities Electrical. The contractor shall provide in the bid documents an

anticipated salvage credit to the City of Flint if the City permits the contractor to remove and dispose of the equipment from the site.

- 2.5 The contractor shall be responsible for the installation of the new switchgear and equipment provided by the City of Flint. The contractor shall document all terminations that take place during the installation. This documentation shall be provided to the City.
- 2.6 The contractor shall have the supervisor who oversaw the work present during each testing of the equipment prior to the City's final acceptance. The supervisor shall coordinate with the equipment manufacturers, the equipment distributors, and the City of Flint designated project manager(s).
- 2.7 Testing shall include but not be limited to motor rotation, drive start-ups, switchgear transfers, 480VAC systems, communications and telemetry, Estops, control wiring, transfer schemes, and integration with existing systems.
- 2.8 The contractor shall be responsible for any City of Flint or State of Michigan permits, fees or associated paperwork necessary for the jobs. Work shall meet or exceed NFPA 70, 2017 edition. The contractor shall coordinate any inspections with Utilities Electrical.
- 2.9 Specific Work.
 - 2.9.1 In addition to the other requirements listed in this specification, the contractor shall specifically perform the following work:
 - 2.9.2 Third Avenue Pumping Station.
 - 2.9.2.1 The contractor shall procure and install conduit, cable tray, junction boxes, wiring and terminating material and equipment to support successful replacement and/or relocation of the Third Avenue switchgear, motor control, disconnects, transformers, the automatic transfer switch, communication and telemetry. The contractor shall terminate wires as required to provide complete and operational systems.
 - 2.9.2.2 The contractor shall procure and install concrete, conduit, wiring, termination hardware and appurtenances as needed to reroute the motor wiring, RTD wiring and vibration monitoring wiring for each motor.

- 2.9.2.3 The contractor shall pay particular attention to the work required for the integration of the Rockwell Automation PowerFlex 700 with the Eaton contactor.
 2.9.2.4 The schedule of installation is critical as the station must have two operational pumps AT ALL TIMES! This shall require two separate installation
 - **TIMES!** This shall require two separate installation segments, one for each incoming feeder. The tie breaker section is of particular concern. The contractor shall provide an extremely detailed written description and gant chart for the complete installation procedure. See section 3.0
- 2.9.2.5 The contractor shall provide, install and terminate properly-sized equipment grounding conductors to each of the pumps.
- 2.9.2.6 The contractor shall verify the feasibility of the location of the transformers, disconnects and 480VAC automatic transfer switch including gutter/cooling distances. If the proposed solution is not feasible, the contractor shall coordinate with WPC Project Manager and Utilities Electrical for approved locations.
- 2.9.2.7 The contractor shall be responsible for verifying and coordinating all of the switchgear and motor control electronic relays with the proper FLA settings and all other required parameters that is needed for proper protection and operation.
- 2.10 The contractor shall conform to the timeline requirements stated in section 3.
- 2.11 The contractor shall be responsible for any concrete work or demolition that is required. Any concrete shall utilize high-quality concrete and be designed for at least twice the weight of the equipment to be mounted.
- 2.12 The contractor shall bond the switchgear and all other required equipment to building steel with a properly labeled wire sized according to NFPA 70 Table 250.66. Any conduit runs necessary for this shall be included.
- 2.13 The contractor shall be responsible for transporting all equipment from storage locations to Third Avenue and placing them inside the building.

2.14 The contractor shall be responsible for providing a complete and operational switchgear and motor control system to include associated equipment and separately derived systems.

3.0 Timelines.

- 3.1 WPC Third Ave operations cannot and shall not be interrupted. If a temporary shutdown is absolutely required, the Contractor shall keep any process operations disruptions to under fifteen (15) minutes during low-flow to normal-flow conditions. Shutdowns during high-flow conditions SHALL NOT be permitted.
- 3.2 Third Avenue Pumping Station Timeline
 - 3.2.1 Documentation of existing equipment, terminations and telemetry.
 - 3.2.2 Installation of transformers, ATS and disconnects.
 - 3.2.3 Coordination with WPC regarding shutdown of North Feeder.
 - 3.2.4 Shutdown of North Feeder. Lockout of outdoor transformer & tie breaker, if applicable.
 - 3.2.5 Removal of existing North switchgear and motor control.
 - 3.2.6 Installation of new North switchgear and motor control.
 - 3.2.7 Installation and termination of motor power and monitoring conduits and wiring and Transformer/ATS conduits and wiring.
 - 3.2.8 South switchgear power up and Drive start-up. Rotation checks. Transfer of MCC power to new ATS requiring small shut-down of MCCs.
 - 3.2.9 Minimum of one (1)- week test of North switchgear and motor control.
 - 3.2.10 Coordination of South Feeder shut-down with WPC.
 - 3.2.11 Shutdown of South Feeder. Lockout of outdoor transformer and tie breaker, if applicable.
 - 3.2.12 Removal of existing South switchgear and motor control.
 - 3.2.13 Installation of new South switchgear and motor control.
 - 3.2.14 Installation of motor power and monitoring conduits and wiring and Transformer/ATS conduits & wiring.
 - 3.2.15 South switchgear power up and Drive start-up. Rotation checks.
 - 3.2.16 Testing of Main-Tie-Main switchover, ATS switchover and full line-up communications testing.
 - 3.2.17 Minimum of one (1)-week test of South switchgear and motor control.
 - 3.2.18 Training of Operations and affected Maintenance personnel in the operation of the new Switchgear and Motor Control.
 - 3.2.19 Training of Switchgear and motor control PM and

Troubleshooting (contractor participation may be optional)
3.2.20 Final notations and comments from manufacturer, contractor and
City of Flint. Final walkthrough and sign off.

- 3.3 Overtime is permitted up to six hours per day and additional shifts are permitted as required only to minimize operation disruptions. Variations shall be approved by the WPC designated project manager contingent upon progress of the project.
- 3.3 Submitted bid documents shall include a written, very detailed, descriptive plan and gant chart by the contractor showing how the contractor shall adhere to the timeline, including staging and preparatory work. Included in this plan shall be details regarding how the contractor shall ensure two pumps are operational at all times and contingency considerations. Also included shall be a detailed plan on the installation of the Tie section of the Main-Tie-Main switchgear. Failure to include this plan in the bid documents shall result in automatic disqualification.
- 3.4 Scheduling and timing of the work shall be coordinated with the Project Manager and WPC Operations.
- 3.5 The maximum permitted time for sections 3.2.4 through 3.2.17 is five (5) weeks. Every effort shall be made to minimize the duration of the work.
- 4.0 Work Procedures.
 - 4.1 Work shall be done in accordance with the 2017 National Electrical Code or latest adopted Code, City of Flint ordinances and other pertinent Codes.
 - 4.2 Wire numbers shall be replaced. Wires without numbers shall be assigned numbers and documented. Panduit type S100X150VATY or similar shall be used.
 - 4.3 Phasing shall be maintained.
 - 4.4 All bolts and screws shall be torqued to manufacturer's specifications. A green color code mark shall be used to indicated bolts and screws so tightened.

- 4.5 The contractor shall be responsible for the physical connection of all sections of the switchgear, motor control and equipment as required. This shall include anchoring the switchgear or equipment to the floor or pad.
- 4.6 The contractor is responsible for all wiring and bus inter-connections between switchgear and motor control sections.
- 4.7 The contractor is responsible for all wire terminations from the field and within each switchgear section, motor control section and between pieces of equipment.
- 4.8 The contractor will ensure that all installed communication units in the switchgear are connected to the communications trunklines per WPC SCADA direction.
- 4.9 No insulation shall be allowed under terminals. Between 1/8" and 1/4" of bare copper shall be exposed at the terminal. All strands on stranded wire shall be under the terminal.
- 4.10 Where possible, alternating current power and control wiring for individual switchgear units not internal to the unit shall be cabled together at a minimum of 3 foot intervals with cable ties in both the horizontal and vertical wireways. At intervals not exceeding 6 feet, label-type cable-ties shall be used and marked to indicate at which switchgear unit the wires terminate. Communication cables are exempt from this section.
- 4.11 Direct current wiring shall be routed so as to minimize any interference from the alternating current wiring. Cross-overs shall be at 90 degrees if possible and DC wires running parallel to AC wires shall be kept a minimum of 3 inches from the AC wires. Communication cables are included in this section.
- 4.12 Installation shall be in a neat and workmanlike manner. At random times, quality control inspections of the work shall be conducted
- 4.13 All bonding and equipment grounds shall be made up per NFPA 70, 2017 edition.
- 4.14 The contractor shall maintain the worksite as clean as possible. The contractor shall be responsible for trash removal with the exception of the removed switchgear sections. The contractor shall clean-up the work area

after the work is completed each day. Final payment may be contingent on final inspection of work area.

- 4.15 The contractor shall take all necessary precautions while transporting the equipment to the Third Avenue pumping station site as well as into and within the building. Damage to the equipment during any contractor transport shall be repaired or replaced by the contractor.
- 5.0 Warranty.
 - 5.1 The contractor shall warranty the work performed for a period of not less than 12 months from the date of acceptance.
- 6.0 Date of Acceptance.
 - 6.1 The date of acceptance shall be when the City approves payment for the final invoice.

BID FORM

Company	_Date			
Equipment	Amount			
Third Avenue Switchgear/MCC Replacement Third Avenue Transformer/ATS				
Third Avenue Transformer/ATS Installation				
Equipment Disposal Credit (do not include in total)				
Total				
 Failure to use this bid form may result in bid disqualification. List any value added considerations on a separate page. Please attach submitted drawings to the back of this bid. Failure to attach drawings may result in bid disqualification. Contact				
/s/				
Phone Number				
Address				
City, State, Zip				

THIS PAGE MUST BE COMPLETED AND INCLUDED WITH SUBMITTAL:

The undersigned herby certifies, on behalf of the respondent named in this Certification (the "Respondent"), that the information provided in this offer submitted to the City of Flint is accurate and complete, and that I am duly authorized to submit same. I hereby certify that the Respondent has reviewed all documents and requirements included in this offer and accept its terms and conditions.

Cash Discounts will be computed from the date of receipt of invoice. Prices firm unless stated otherwise by bidder. Delivery can be made in () days ARO (after receipt of order). Payment Terms: Delivery Dest.: Fed. ID #:

(All Freight Terms are considered F.O.B., Prepaid unless otherwise noted by seller)

COMPANY NAME (Respondent):	(Printed)	
CITY/STATE/ZIP:		
PHONE:	FAX:	
EMAIL:		
PRINT NAME and TITLE:		
	(Authorized Representative)	
SIGNED	DATE:	

Please submit original documents plus one copy.

Bid results may be viewed next business day online at https://www.citvofflint.com/finance/purchasing/results/ under "bid results".

APPENDIX A

THIRD AVENUE PUMPING STATION EXISTING DRAWINGS

APPENDIX B

THIRD AVENUE PUMPING STATION NEW EQUIPMENT DRAWINGS







Master Document Index

Medium Voltage Assemblies MVA 5kV Indoor

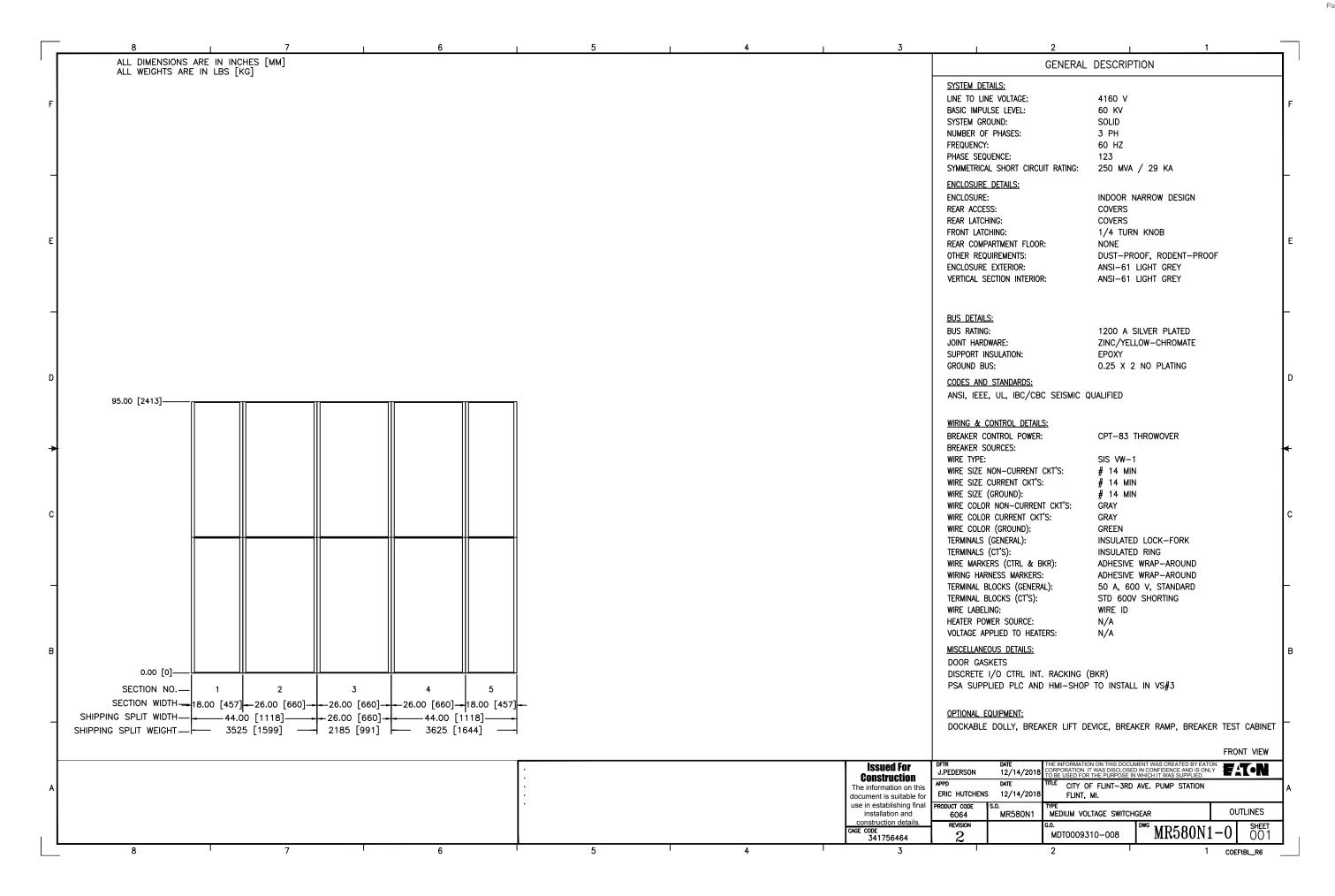
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2	OUTLINES	MR580N1-O.DWG	2
3	SECTION VIEW	MR580N1-V.DWG	2
4	FRONT LAYOUT	MR580N1-R.DWG	2
5	SCHEDULES	MR580N1-N.DWG	2
6	Nameplates	MR580N1-Y101.PDF	2
7	Nameplates	MR580N1-Y301.PDF	2
8	Bill of Material	MR580N1-P.PDF	2
9	LEGEND	MR580N1-E.DWG	2
10	THREE-LINE	MR580N1-T.DWG	2
11	SCHEMATIC	MR580N1-S.DWG	2
12	CONN DIAG VERT SECT 1&2	MR580N1-W011.DWG	1
13	CONN DIAG VERT SECT 1&2	MR580N1-W012.DWG	1
14	CONN DIAG VERT SECT 3	MR580N1-W021.DWG	1
15	CONN DIAG VERT SECT 3	MR580N1-W022.DWG	1
16	CONN DIAG VERT SECT 3	MR580N1-W023.DWG	1
17	CONN DIAG VERT SECT 3	MR580N1-W024.DWG	1
18	CONN DIAG VERT SECT 4&5	MR580N1-W031.DWG	1
19	CONN DIAG VERT SECT 4&5	MR580N1-W032.DWG	1
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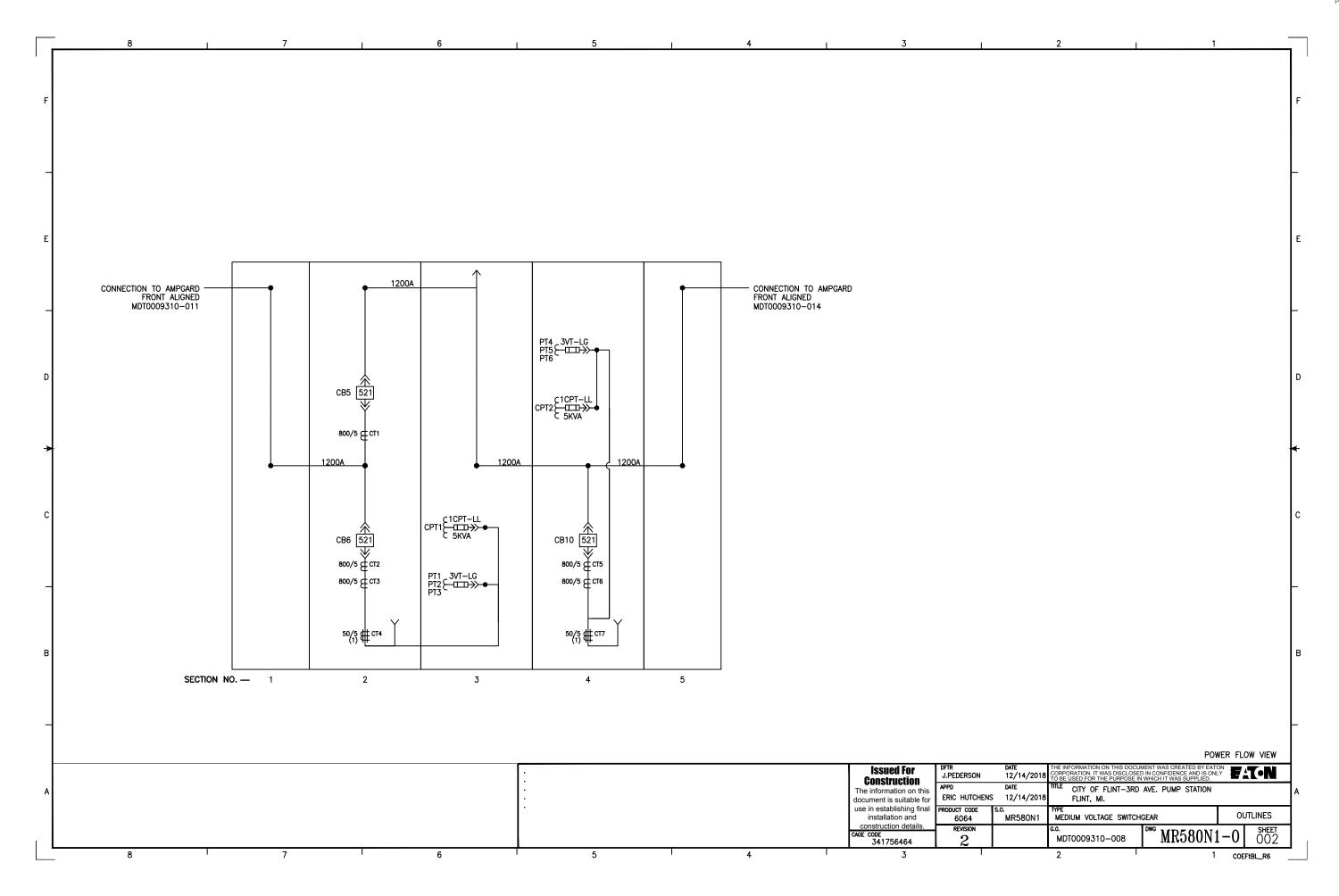
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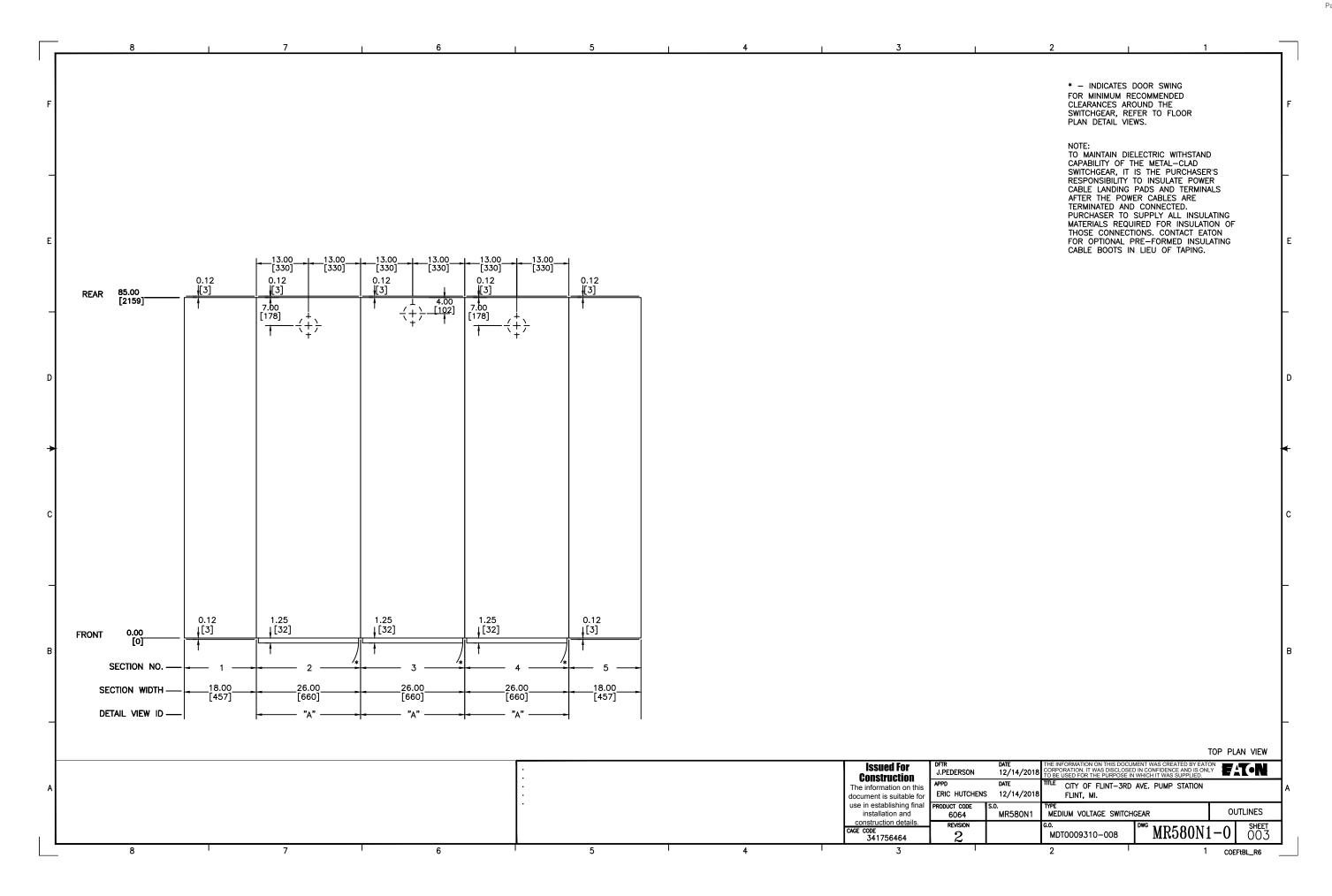
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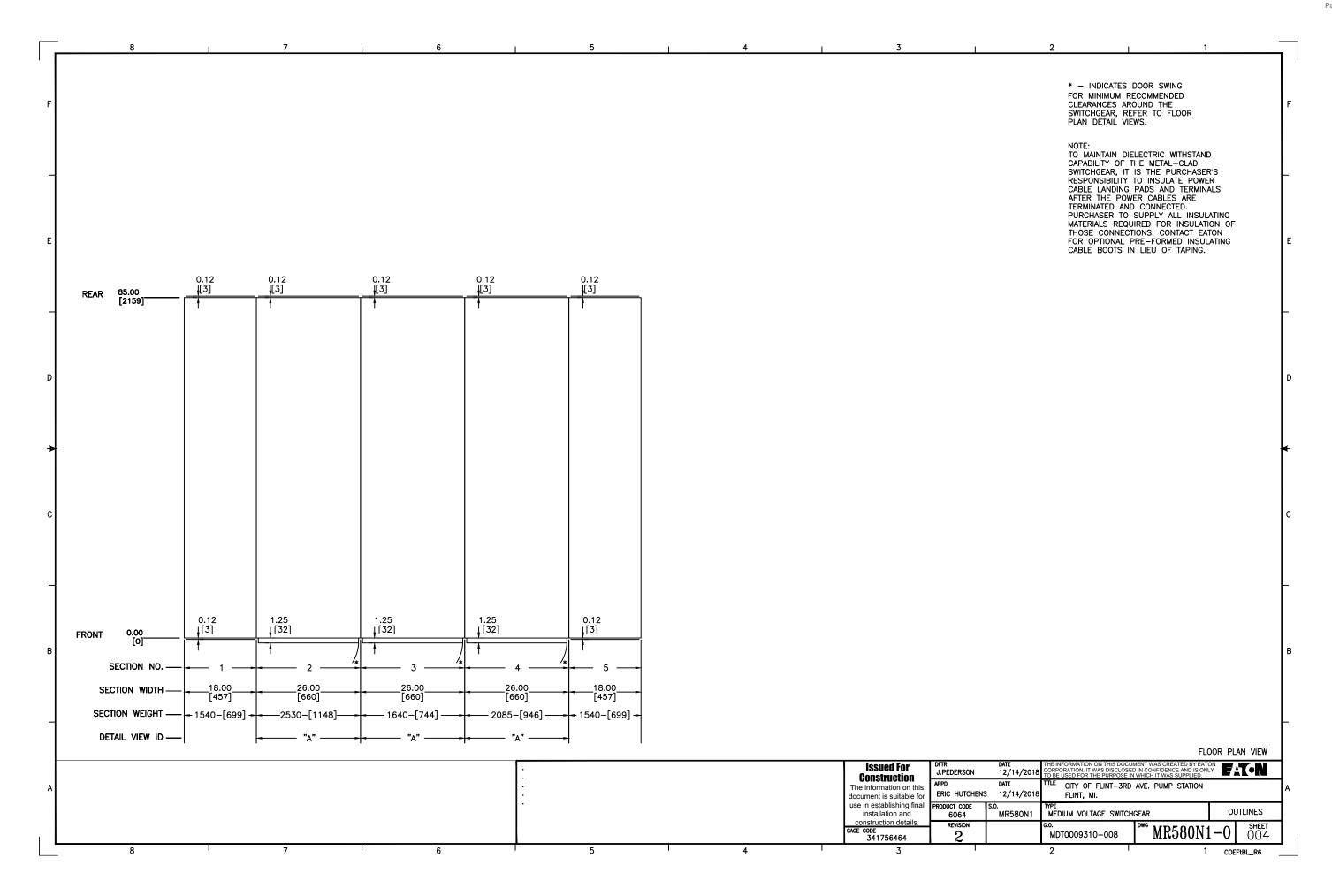
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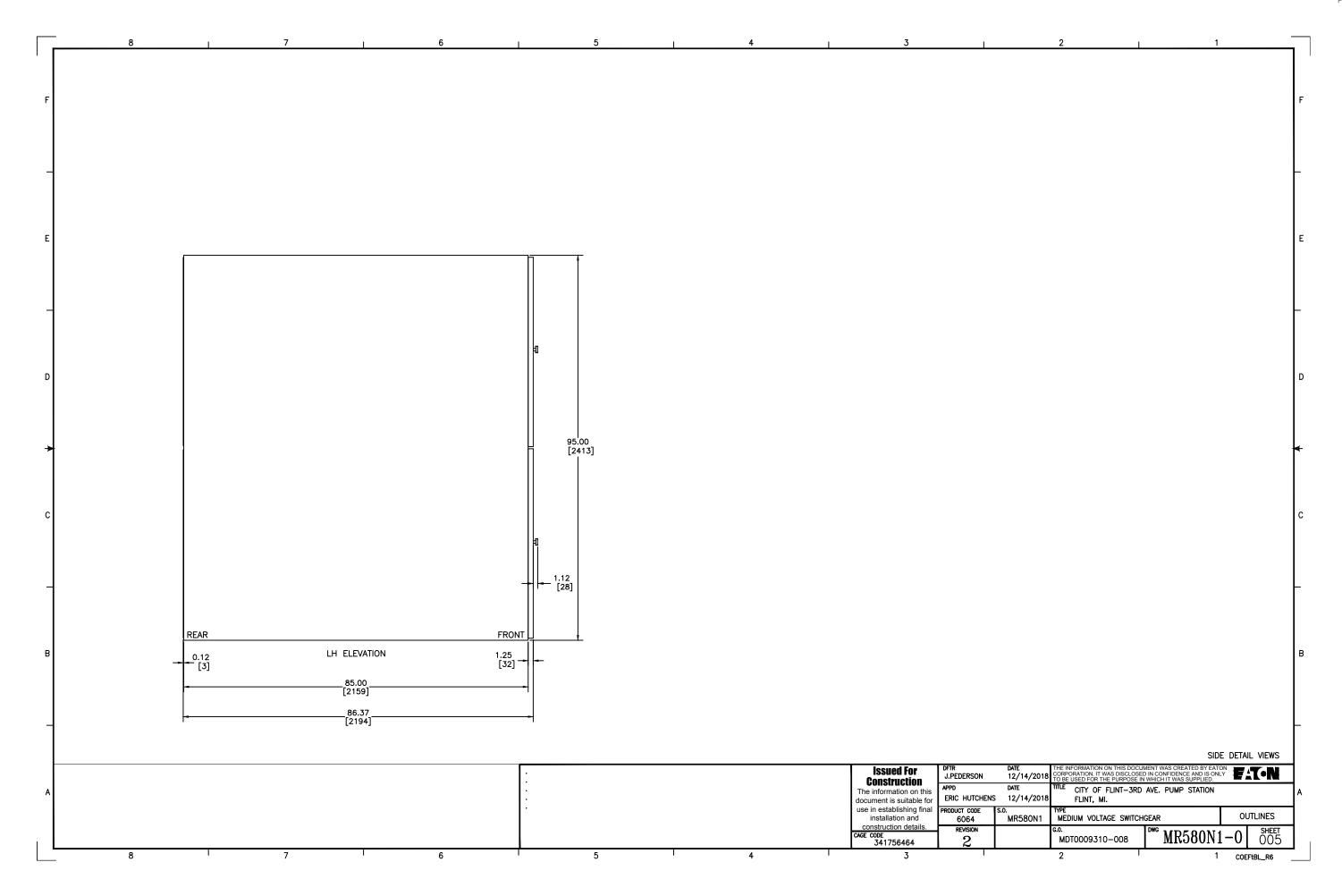
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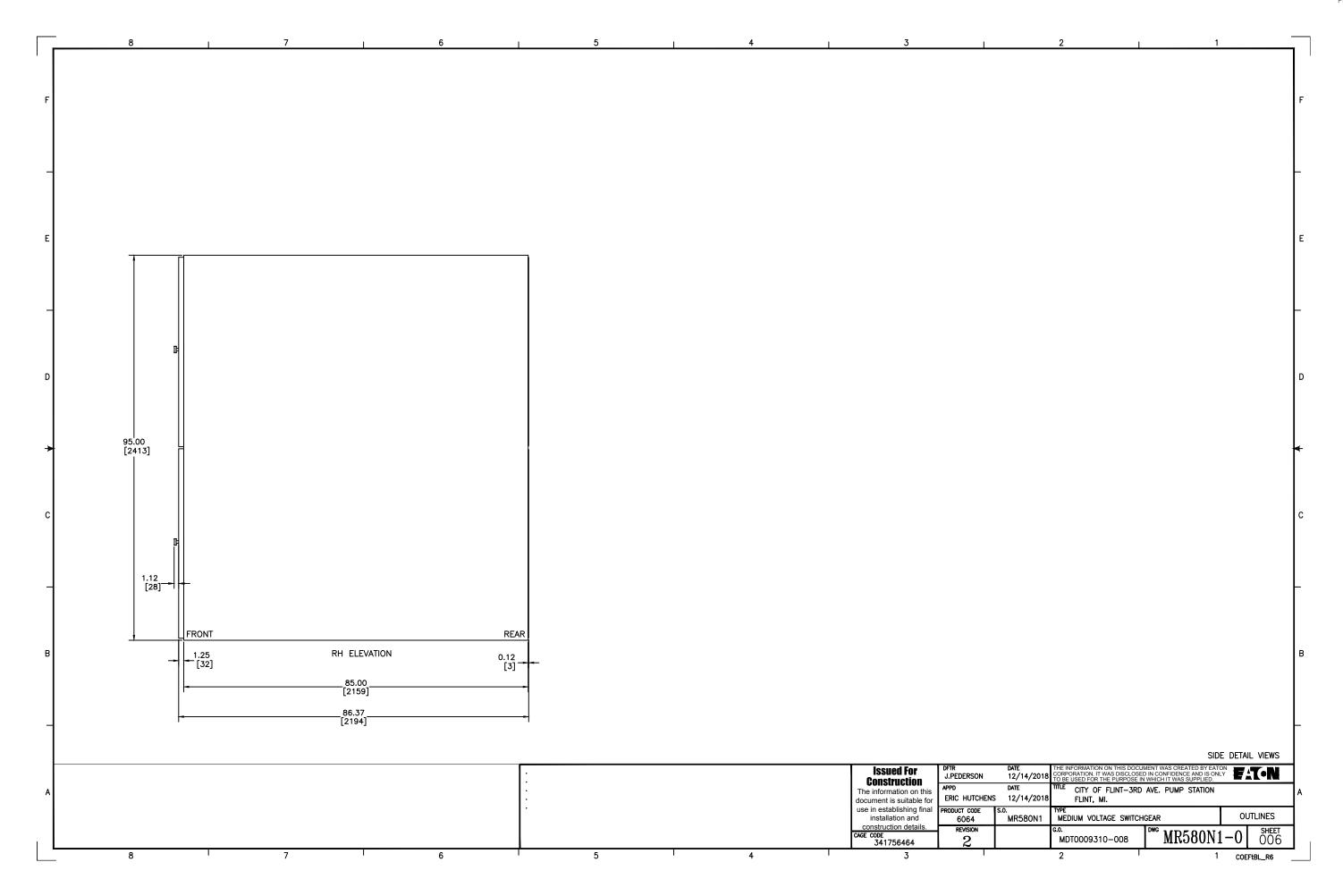


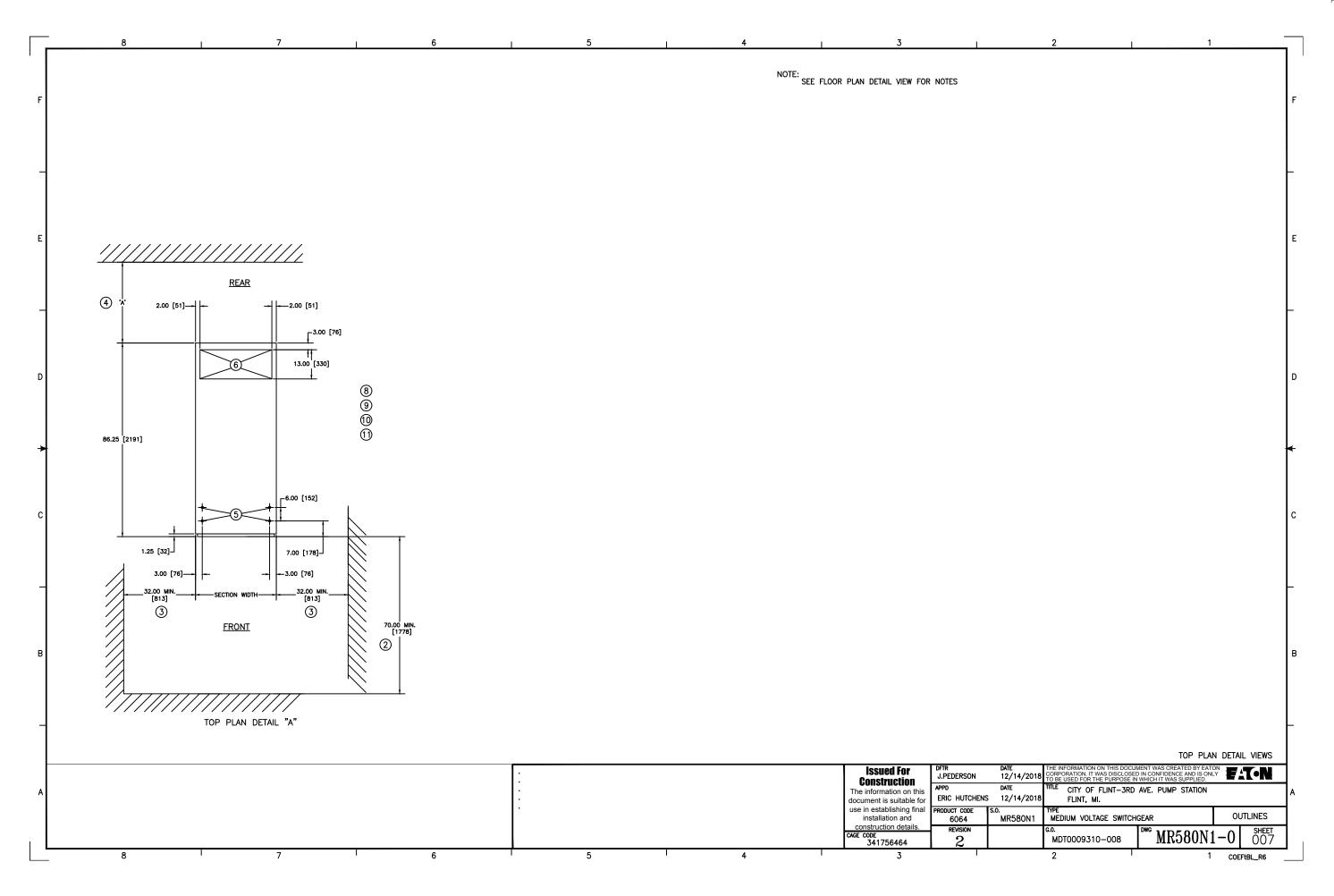


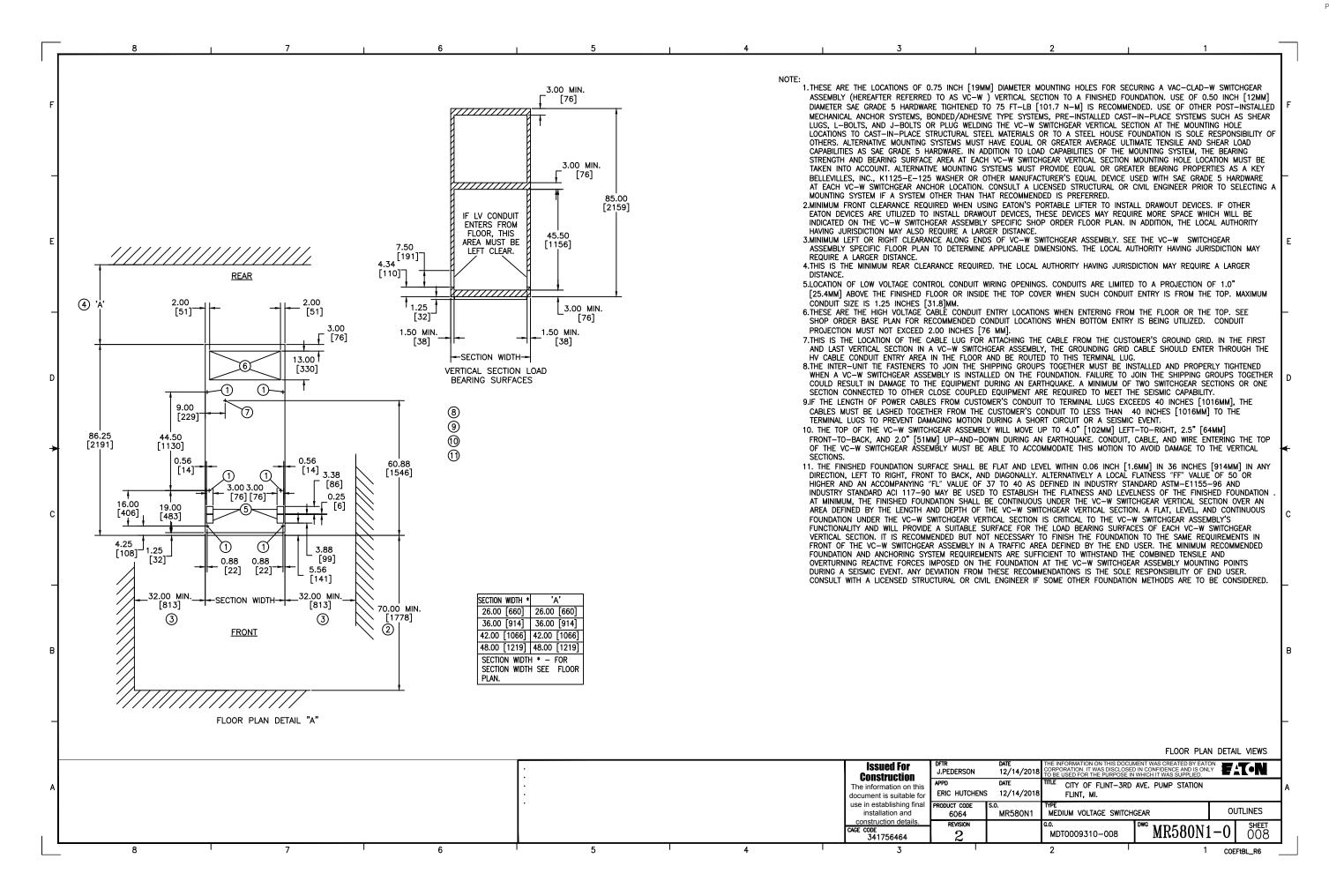


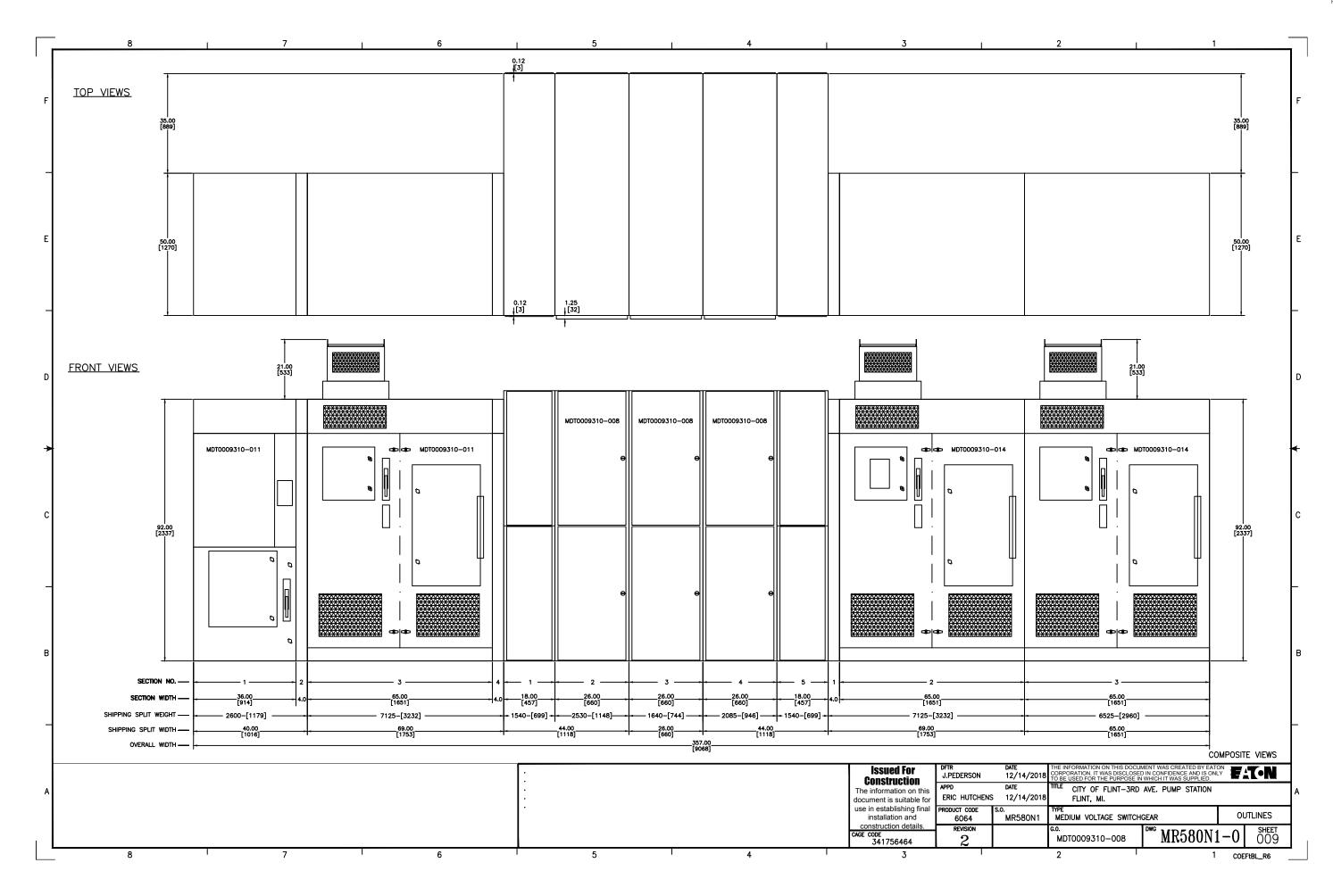










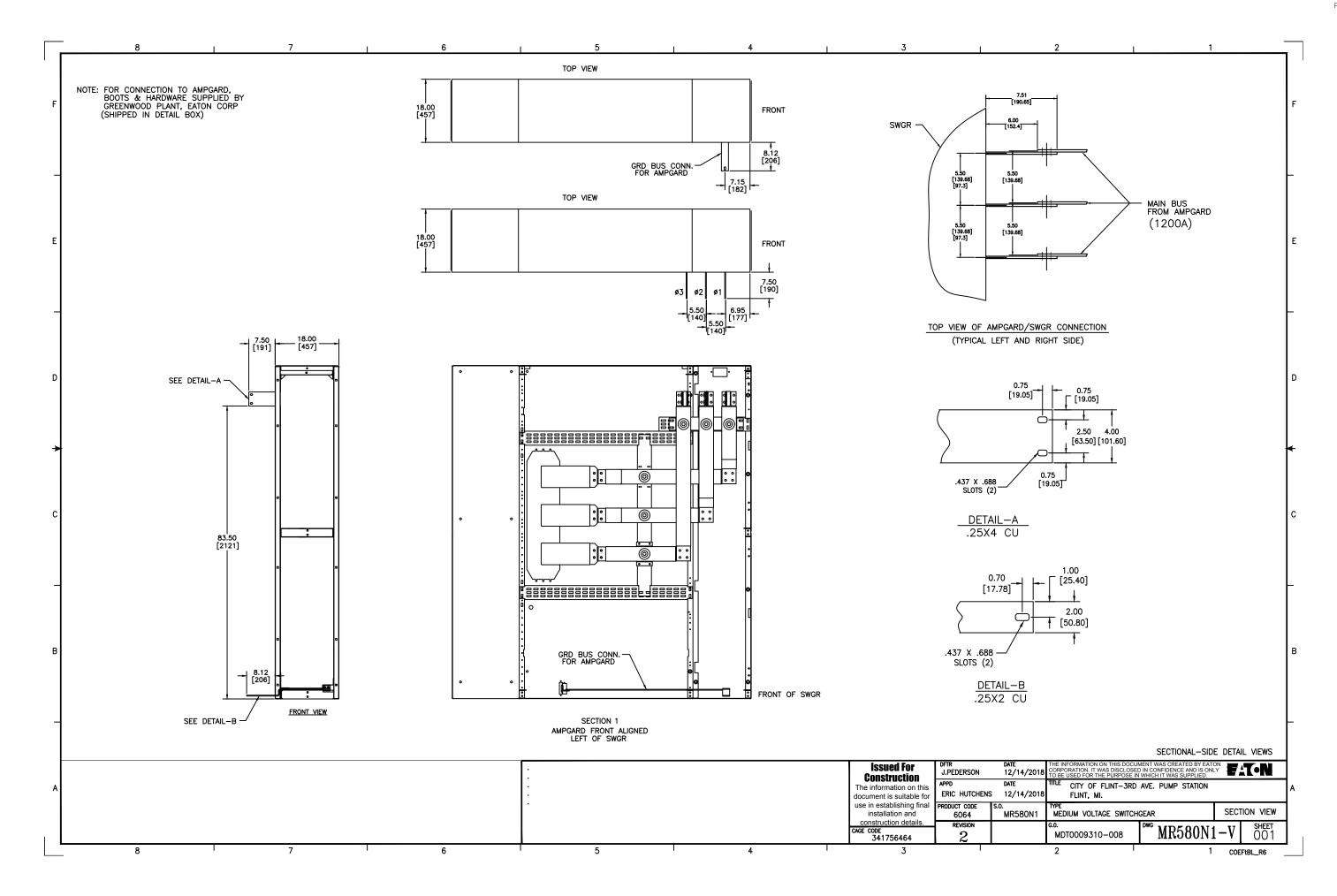


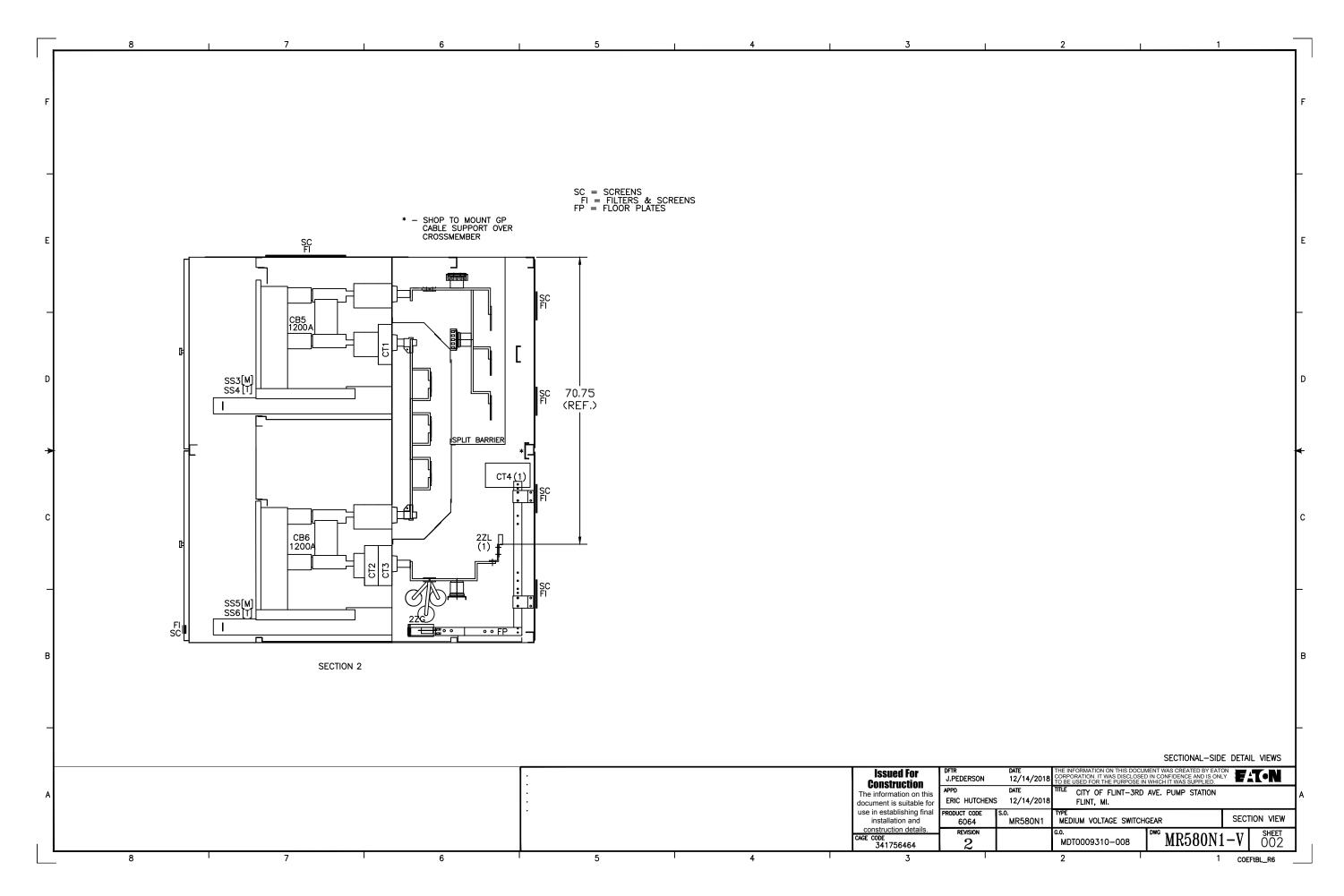
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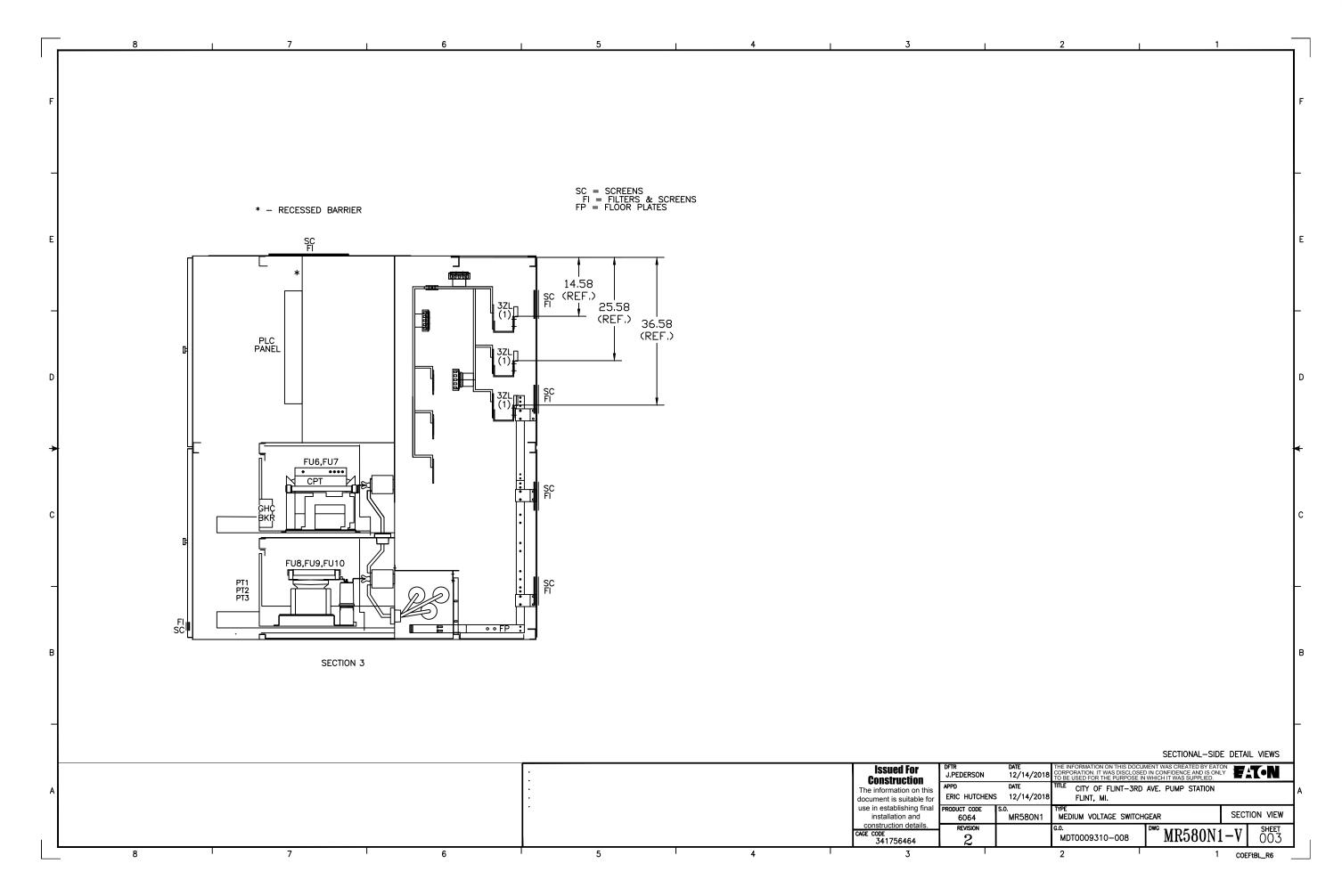
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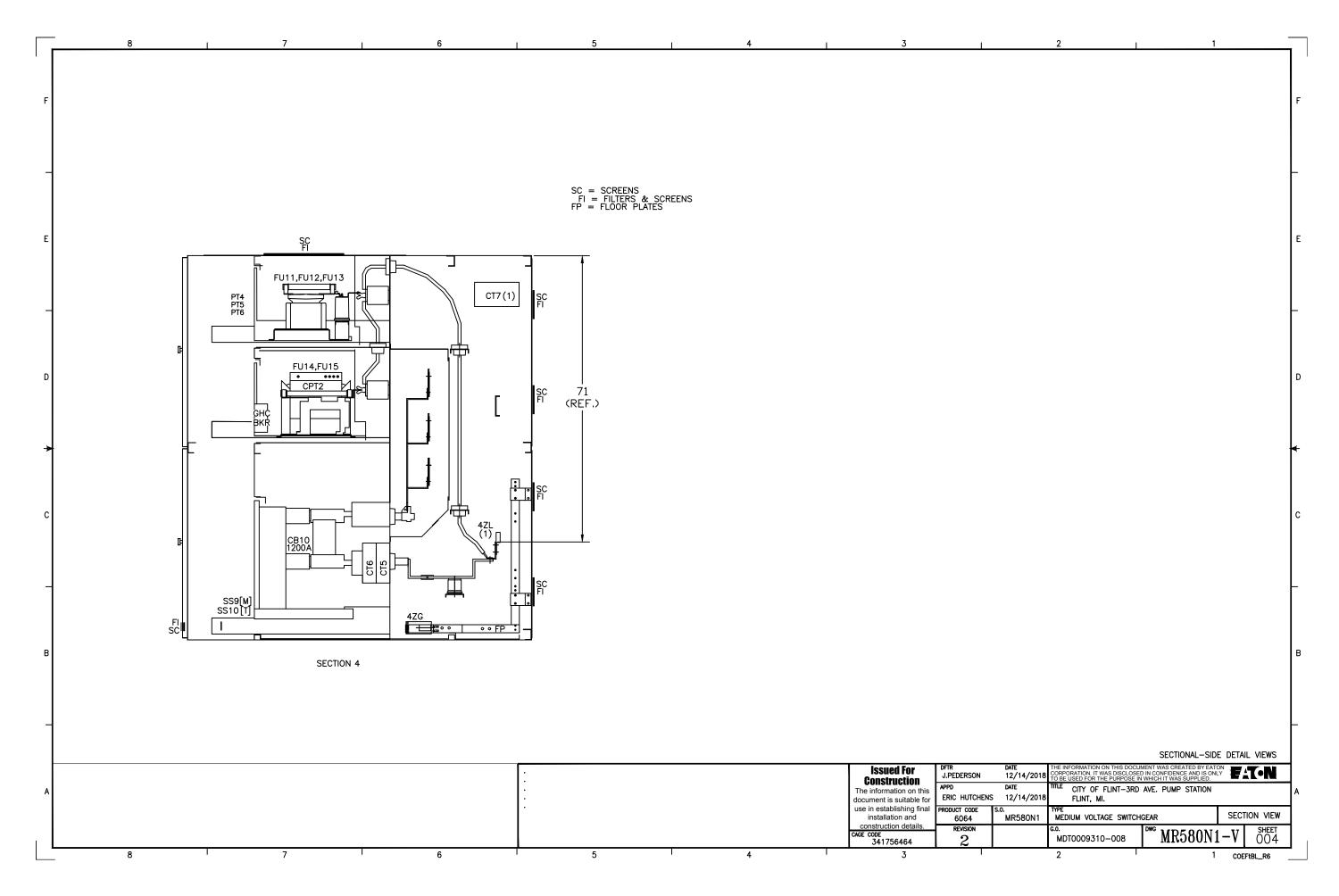
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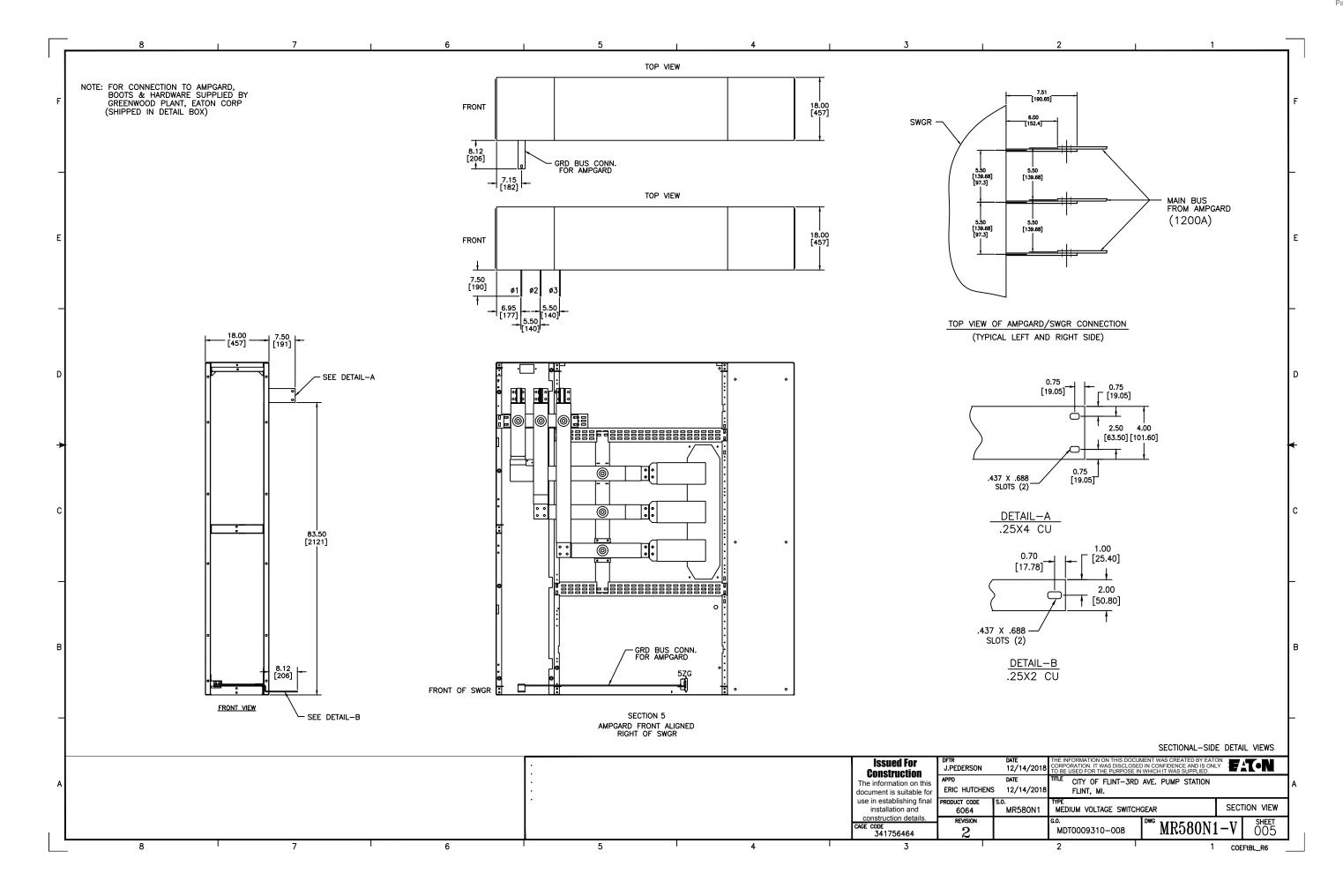
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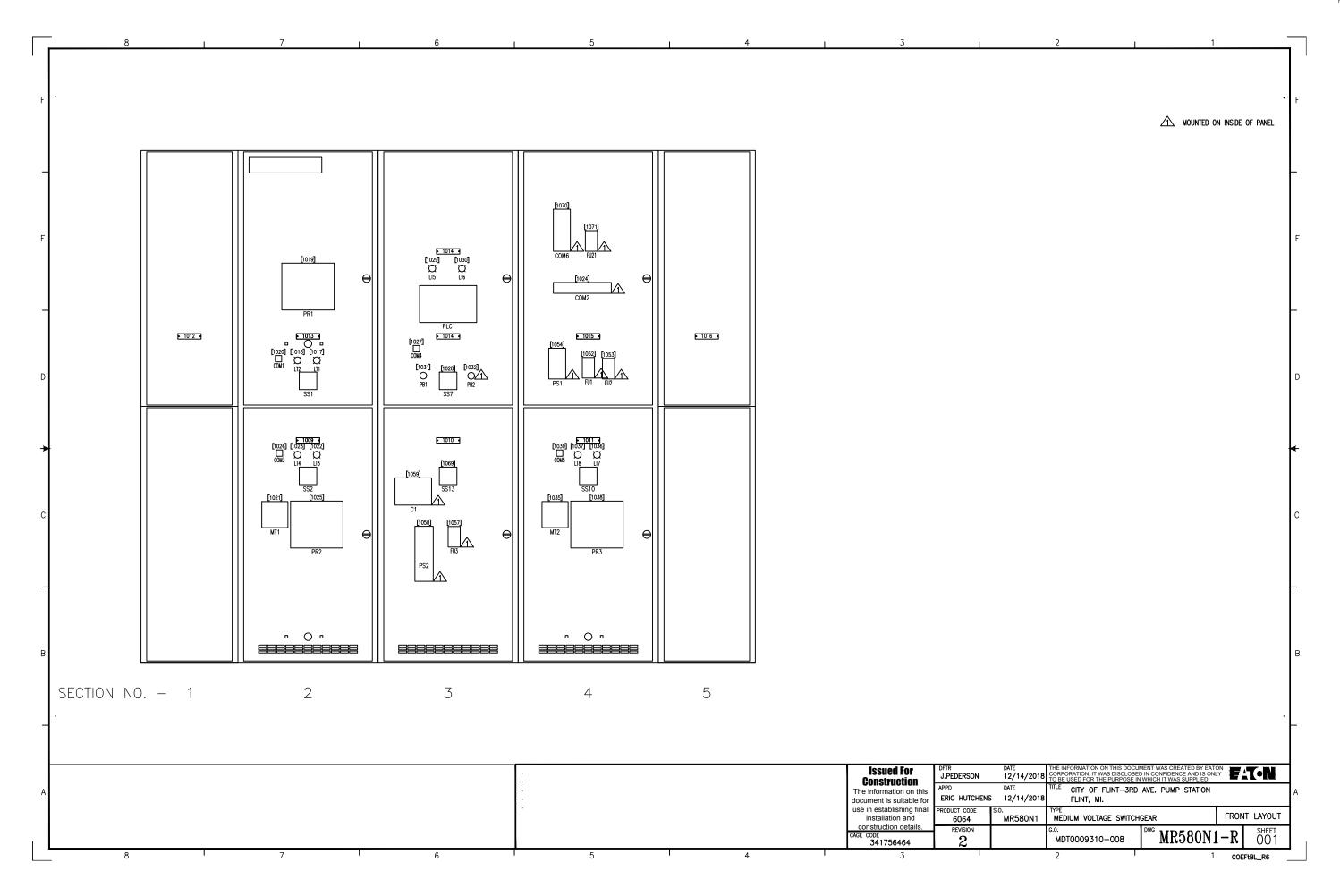








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D A	TIE BREAKER	NONE 50VCPWND250	1200	29KA	120 VAC	120V CAP-CTD2	120 VAC	1A & 3B	NONE	3A & 4B	4A & 3B		T/B T/B					NONE NONE			
D	MAIN BREAKER A	3 CYCLE 50VCPWND250	1200	29KA	120 VAC	120V CAP-CTD2	120 VAC	1A & 3B	NONE	3A & 4B	4A & 3B		T/B	TOP	С	350 MCM	1	NONE			
A C	TRANSFER CONTROLS	3 CYCLE BLANK 1CPT-LL											T/B	TOP	С	NO 2/0	1	NONE	+		
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B D	MAIN BREAKER B	1CPT-LL 50VCPWND250 3 CYCLE	1200	29KA	120 VAC	120V CAP-CTD2	120 VAC	1A & 3B	NONE	3A & 4B	4A & 3B		Т/В	TOP	С	350 MCM	1	NONE			
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		APPD	DATE	TITLE CITY OF FLINT-3	RD AVE. PUMP ST	ATION		
		E.HUTCHENS	2/21/2019	FLINT, MI.				
		s.o.		TYPE		D	EVICE	
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	NAM	EPLATES	
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET	
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COM2	1024	GATEWAY		1
COM3	1026	BKR PENDANT	PORT	1
COM4	1027	LOCAL ETHERNET		1
COM5	1039	BKR PENDANT	PORT	1
LT1	1017	CLOSED		1
LT2	1018	OPEN		1
LT3	1022	CLOSED		1
LT4	1023	OPEN		1
LT5	1029	AUTO		1
LT6	1030	ALARM		1
LT7	1036	CLOSED		1
LT8	1037	OPEN		1
MT1	1021	METERING		1
MT2	1035	METERING		1
PB1	1031	ALARM	RESET	1
PB2	1032	INITIATE	RE-TRANSFER	1
PR1	1019	TIE PROTECTION	RELAY	1
PR2	1025	M1 PROTECTION	RELAY	1
PR3	1038	M2 PROTECTION	RELAY	1
SS7	1028	43-1 MODE	SELECTOR	1

NAMEPLATE TYPE CODES:

1 - 2.500" X 0.750" NAMEPLATE, SCREW MOUNTED, WHITE WITH BLACK LETTERS 0.200" HIGH

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		E.HUTCHENS	2/21/2019	FLINT, MI.			
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		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	NAM	IEPLATES
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET
6064	341756464	2	Α	MDT0009310-008	MR580N1-Y10)1	2 OF 3

		INTERIOR DE	VICE NAMEPLATES	
Device ID	NP. ID	Line 1	Line 2	Type
C1	1059	83		1
CB1	1041	BKR CONTROL	30 AMP	1
CB2	1042	BKR INTEGRAL	RACKING 15 AMP	1
CB3	1048	BKR CONTROL	30 AMP	1
CB4	1055	BKR INTEGRAL	RACKING 15 AMP	1
CB8	1061	BKR CONTROL	30 AMP	1
CB9	1062	BKR INTEGRAL	RACKING 15 AMP	1
COM6	1070	ETHERENT	SWITCH	1
CR1	1043	95C		1
CR2	1044	95T		1
CR3	1045	95C-T		1
CR4	1046	95T-T		1
CR5	1049	95T/S1		1
CR6	1050	95C		1
CR7	1051	95T		1
CR8	1056	95C/S1		1
CR9	1063	95C		1
CR10	1064	95T		1
CR11	1065	95T-S2		1
CR12	1066	95C-S2		1
CTD1	1040	CAPACITOR TRIP	DEVICE	1
CTD2	1047	CAPACITOR TRIP	DEVICE	1
CTD3	1060	CAPACITOR TRIP	DEVICE	1
FU1	1052	IDEC 120VAC/24VDC	6 AMP	1
FU2	1053	GATEWAY PS	3 AMP	1
FU3	1057	UPS PS	6 AMP	1
FU21	1071	ETHERNET SW PS	3 AMP	1
PS1	1054	120VAC/24VDC	POWER SUPPLY	1
PS2	1058	UPS		1
VS 3_DC	1005	CPT 5 KVA 1-PH		1
VS 3_DD	1006	LINE V.T.s		1
VS 4_DA	1007	LINE V.T.s		1
VS 4_DB	1008	CPT 5 KVA 1-PH		1

NAMEPLATE TYPE CODES:

1 - 2.500" X 0.750" NAMEPLATE, SCREW MOUNTED, WHITE WITH BLACK LETTERS 0.200" HIGH

		ISSUED FOR CO	SUITAE	BLE FOR USE			
		DFTR	DATE	THE INFORMATION ON THIS DOCUM	IENT IS CREATED BY EATON		
		E.HUTCHENS 2/21/2019 CORPORATION, IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPL					<u> </u>
		APPD	DATE	TITLE CITY OF FLINT-3	RD AVE. PUMP ST	ATION	
		E.HUTCHENS	2/21/2019	FLINT, MI.			
		S.O.		TYPE		D	EVICE
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	NAM	EPLATES
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET
6064	341756464	2	Α	MDT0009310-008	MR580N1-Y10)1	3 OF 3

	REVISION HISTORY									
REV	REVISION DESCRIPTION	BY	APPD	DATE						
2	CONSTRUCTION	HUT	EH	2/21/2019						

		ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FINE IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS. DETR DATE THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON THE INFORMATION ON THE INFORMAT						
		DFTR E.HUTCHENS	IENT IS CREATED BY EATON IN CONFIDENCE AND IS SE IN WHICH IT IS SUPPLIED.	F:	T•N			
		APPD E.HUTCHENS	DATE 2/21/2019	TITLE CITY OF FLINT-3 FLINT, MI.	RD AVE. PUMP STA	ATION		
		s.o. MR58	30N1	TYPE MEDIUM VOLTAGE	SWITCHGEAR		ATING RKINGS	
PRODUCT CODE 6064	CAGE CODE 341756464	REVISION 2	А	G.o. MDT0009310-008	DWG MR580N1-Y30		SHEET 1 OF 9	



SWITCHGEAR UNIT Type: 26 WIDE Date of Mfr: GO: MDT0009310 Item: 800 Section S.O: 1 of 5 72YR580 Rated Freq: 60 Hz Phase: Rated Max Voltage: kV Power Frequency Withstand: 19 kV LIWV (BIL): 60 kV **Main Bus Current Ratings** Continuous: 1200 Momentary; Peak/RMS Asymmetrical: kΑ 97/58 2 second Short Time, RMS Sym: kΑ Manufactured In: Greenwood SC USA Instructions: IB02200001E

Location: VS 1	4.000" X 4.000" NAMEPLATE, ADHESIVE, BLACK WITH SILVER LETTERS 0.250" HIGH	ld: 1000	1/5

		ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR USE IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.						
		DFTR	DATE	THE INFORMATION ON THIS DOCUM			7.8	
		E.HUTCHENS	2/21/2019	CORPORATION. IT WAS DISCLOSED ONLY TO BE USED FOR THE PURPO			. [• LA	
APPD DATE TITLE CITY OF FLINT-3RD AVE. PUMP STATION								
		E.HUTCHENS	2/21/2019	FLINT, MI.				
		S.O.		TYPE		R	ATING	
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	MA	RKINGS	
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET	
6064	341756464	2	Α	MDT0009310-008	MR580N1-Y30)1	2 OF 9	



SWITCHGEAR UNIT Type: 26 WIDE Date of Mfr: GO: MDT0009310 Item: 800 Section S.O: 2 of 5 72YR580 Rated Freq: 60 Hz Phase: Rated Max Voltage: kV Power Frequency Withstand: 19 kV LIWV (BIL): 60 kV **Main Bus Current Ratings** Continuous: 1200 Momentary; Peak/RMS Asymmetrical: kΑ 97/58 2 second Short Time, RMS Sym: kΑ Manufactured In: Greenwood SC USA Instructions: IB02200001E

-			
Location: VS 2	4.000" X 4.000" NAMEPLATE, ADHESIVE, BLACK WITH SILVER LETTERS 0.250" HIGH	ld: 1001	2/5

		ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR USE IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.					
		DFTR	DATE	THE INFORMATION ON THIS DOCUM	MENT IS CREATED BY EATON		
		E.HUTCHENS	2/21/2019	CORPORATION. IT WAS DISCLOSED ONLY TO BE USED FOR THE PURPO			. [• LA
APPD DATE TITLE CITY OF FLINT-3RD AVE. PUMP STATION							
		E.HUTCHENS	2/21/2019	FLINT, MI.			
		S.O.		TYPE		R	ATING
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	MA	RKINGS
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET
6064	341756464	2	Α	MDT0009310-008	MR580N1-Y30)1	3 OF 9



	SWI	TC	HGE	AR UN	IT			
Туре:			:	26 WIDE				
GO:	MDT000931	0		Date of N	Лfr:			
Item:	800							
S.O:	72YR580			Section	3	of	5	
Rated Freq:		60	Hz	Phase:	3			
Rated Max '	Voltage:					5		kV
Power Freq	uency Withsta	nd:			19			kV
LIWV (BIL):						60		kV
	Main B	us (Curr	ent Ratin	ıgs			
Continuous:					12	00		
Momentary;	Peak/RMS As	symr	netri	cal:		97/58		kA
2 second S	hort Time, RM	S Sy	/m:			36		kA
Manufacture	ed In:			Greenw	ood S0	USA		
Instructions	 :			IB02200	001E			

Location: VS 3	4.000" X 4.000" NAMEPLATE, ADHESIVE, BLACK WITH SILVER LETTERS 0.250" HIGH	ld: 1002	3/5

				I - THE INFORMATION ON ALLATION AND CONSTRU		SUITAE	BLE FOR USE
		DFTR	DATE	THE INFORMATION ON THIS DOCUM			
		E.HUTCHENS	2/21/2019	CORPORATION. IT WAS DISCLOSED ONLY TO BE USED FOR THE PURPO			. [• LA
		APPD DATE TITLE CITY OF FLINT-3RD AVE. PUMP STATION					
		E.HUTCHENS	2/21/2019	FLINT, MI.			
		S.O.		TYPE		R	ATING
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	MA	RKINGS
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET
6064	341756464	2	Α	MDT0009310-008	MR580N1-Y30)1	4 OF 9



SWITCHGEAR UNIT Type: 26 WIDE Date of Mfr: GO: MDT0009310 Item: 800 S.O: Section 4 of 5 72YR580 Rated Freq: 60 Hz Phase: Rated Max Voltage: kV Power Frequency Withstand: 19 kV LIWV (BIL): 60 kV **Main Bus Current Ratings** Continuous: 1200 Momentary; Peak/RMS Asymmetrical: kΑ 97/58 2 second Short Time, RMS Sym: kΑ Manufactured In: Greenwood SC USA Instructions: IB02200001E

Location: VS 4	4.000" X 4.000" NAMEPLATE, ADHESIVE, BLACK WITH SILVER LETTERS 0.250" HIGH	ld: 1003	4/5

					I - THE INFORMATION ON ALLATION AND CONSTRU		SUITAE	BLE FOR USE
ı			DFTR	DATE	THE INFORMATION ON THIS DOCUM			7 . BI
			E.HUTCHENS	2/21/2019	CORPORATION. IT WAS DISCLOSED ONLY TO BE USED FOR THE PURPO			. L • M
APPD DATE TITLE CITY OF FLINT-3RD AVE. PUMP STATION								
l			E.HUTCHENS	2/21/2019	FLINT, MI.			
ı			S.O.		TYPE		R	ATING
			MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	MA	RKINGS
PR	ODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET
	6064	341756464	2	Α	MDT0009310-008	MR580N1-Y30)1	5 OF 9



	SWITCHGEAR UNIT									
Туре:		26 WIDE								
GO:	MDT0009310	Date of N	/lfr:							
Item:	008									
S.O:	72YR580	Section	5	of	5					
Rated Freq:	60 Hz	Phase:	3							
Rated Max \	/oltage:			5		kV				
Power Frequ	uency Withstand:		19			kV				
LIWV (BIL):				60		kV				
	Main Bus Curr	ent Ratin	gs							
Continuous:			12	00						
Momentary;	Peak/RMS Asymmetri	cal:	(97/58		kA				
2 second Sh	nort Time, RMS Sym:			36		kA				
Manufacture	ed In:	Greenwo	ood SC	USA	_					
Instructions:		IB02200	001E							

Location: VS 5	4.000" X 4.000" NAMEPLATE, ADHESIVE, BLACK WITH SILVER LETTERS 0.250" HIGH	ld: 1004	5/5

				I - THE INFORMATION ON ALLATION AND CONSTRU		SUITAE	BLE FOR USE
		DFTR	DATE	THE INFORMATION ON THIS DOCUM	IENT IS CREATED BY EATON		
		E.HUTCHENS	2/21/2019	CORPORATION. IT WAS DISCLOSED ONLY TO BE USED FOR THE PURPO			. [• []
APPD DATE TITLE CITY OF FLINT-3RD AVE. PUMP STATION							
		E.HUTCHENS	2/21/2019	FLINT, MI.			
		S.O.		TYPE		R	ATING
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	MA	RKINGS
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET
6064	341756464	2	Α	MDT0009310-008	MR580N1-Y30)1	6 OF 9

	BUS TRANSITION	1			
	TO MCC				
Upper Circuit					
Location: VS 1		4.320" X 1.000" NAMEPLATE, SCRE 0.200" HIGH	EW MOUNTED, WHITE WITH BLACK LETTERS	ld: 1012	1/5
	TIE BREAKER				
Upper Circuit					
Location: VS 2		4.320" X 1.000" NAMEPLATE, SCRE 0.200" HIGH	EW MOUNTED, WHITE WITH BLACK LETTERS	ld: 1013	2/5
	TRANSFER CONTRO	DLS			
Upper Circuit					
Location: VS 3		4.320" X 1.000" NAMEPLATE, SCRE 0.200" HIGH	EW MOUNTED, WHITE WITH BLACK LETTERS	ld: 1014	3/5
	VOLTAGE TRANSFORM	IERS B			
	CONTROL TRANSFORI	MER B			
Upper Circuit					
Location: VS 4		4.320" X 1.000" NAMEPLATE, SCRE 0.200" HIGH	EW MOUNTED, WHITE WITH BLACK LETTERS	ld: 1015	4/5
	BUS TRANSITION	N			
	ТО МСС				
Upper Circuit					
Location: VS 5		4.320" X 1.000" NAMEPLATE, SCRE 0.200" HIGH	EW MOUNTED, WHITE WITH BLACK LETTERS	ld: 1016	5/5

			SSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR US N ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.				
		DFTR	DATE	THE INFORMATION ON THIS DOCUM			T.RI
		E.HUTCHENS	E.HUTCHENS 2/21/2019 CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.				
		APPD DATE TITLE CITY OF FLINT-3RD AVE. PUMP STATION					
		E.HUTCHENS	2/21/2019	FLINT, MI.			
		S.O.		TYPE		R	ATING
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	MA	RKINGS
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET
6064	341756464	2	Α	MDT0009310-008	MR580N1-Y30)1	7 OF 9

	MAIN BREAKER A	4			
Lower Circuit					
Location: VS 2		4.320" X 1.000" NAMEPLATE, SCRI 0.200" HIGH	EW MOUNTED, WHITE WITH BLACK LETTERS	ld: 1009	1/3
	VOLTAGE TRANSFORM	IERS A			
	CONTROL TRANSFORM	MER A			
Lower Circuit					
Location: VS 3		4.320" X 1.000" NAMEPLATE, SCRI 0.200" HIGH	EW MOUNTED, WHITE WITH BLACK LETTERS	ld: 1010	2/3
	MAIN BREAKER B	3			
Lower Circuit					
Location: VS 4		4.320" X 1.000" NAMEPLATE, SCRI 0.200" HIGH	EW MOUNTED, WHITE WITH BLACK LETTERS	ld: 1011	3/3

		ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR USE IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.						
		DFTR	DATE	THE INFORMATION ON THIS DOCUM			T.BI	
		E.HUTCHENS	E.HUTCHENS 2/21/2019 CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.					
		APPD DATE TITLE CITY OF FLINT-3RD AVE. PUMP STATION						
		E.HUTCHENS	2/21/2019	FLINT, MI.				
		S.O.		TYPE		R	ATING	
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	MA	RKINGS	
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET	
6064	341756464	2	Α	MDT0009310-008	MR580N1-Y30)1	8 OF 9	

UPS BYPASS			
Pos 12 OFF			
Pos 11 BYPASS	Pos 1		
Pos 10	Pos 2		
Pos 9	Pos 3		
Pos 8	Pos 4		
Pos 7	Pos 5		
Pos 6			
Location: VS 3_FM _FP _PP_3A84591G01-SS13	3.450" X 3.000" NAMEPLATE, SCREW MOUNTED, WHITE WITH BLACK LETTERS 6.750" HIGH	ld: 1069 Dev ld: SS13	1/1

		ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR USI IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.					
		DFTR	DATE	THE INFORMATION ON THIS DOCUM CORPORATION. IT WAS DISCLOSED			T.N
		E.HUTCHENS	E.HUTCHENS 2/21/2019 ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.				
		APPD DATE TITLE CITY OF FLINT-3RD AVE. PUMP STATION					
		E.HUTCHENS	2/21/2019	FLINT, MI.			
		S.O.		TYPE		R	ATING
		MR58	MR580N1 MEDIUM VOLTAGE SWITCHGEAR MARKINGS				RKINGS
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET
6064	341756464	2	Α	MDT0009310-008	MR580N1-Y30)1	9 OF 9

	REVISION HISTORY			
REV	REVISION DESCRIPTION	BY	APPD	DATE
2	CONSTRUCTION	HUT	EH	2/21/2019
3	UPDATED COMMUNICATION DEVICES	HUT	EH	3/13/2019

			ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR UIN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.				
		DFTR E.HUTCHENS	CORPORATION IT WAS DISCLOSED IN CONFIDENCE AND IS				
		APPD E.HUTCHENS	DATE 3/13/2019	TITLE CITY OF FLINT-3 FLINT, MI.	RD AVE. PUMP STA	ATION	
		s.o. MR58	30N1	TYPE MEDIUM VOLTAGE	SWITCHGEAR	CUSTOMER BOM	
PRODUCT CODE 6064	341756464	REVISION 3	А	G.O. MDT0009310-008	DWG MR580N1-P	SHEET 1 OF 11	

CONSOLIDATED PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	MARKING
1ZG, 5ZG	COMPONENT, WES, CABLE CLAMP, 1 BOS	3723A23H02	2	
COM1, COM3, COM5	COMM,RJ-45,M22,ETH,BULKHEAD PASS-THROUGH RECEPTACLE W/ CAP	3A84518G02	3	1020, 1026, 1039
LT1, LT3, LT7	E34 PTT LIGHT RED 120VAC	E34FPB297LRP2A	3	1017, 1022, 1036
LT2, LT4, LT8	E34 PTT LIGHT GREEN 120VAC	E34FPB297LGP2A	3	1018, 1023, 1037
PR1, PR2, PR3	EDR-5000, 8I/11O, ZSI, 61850/MODBUS/DNP3 (RJ45) EDR-5000- 2A0HA1	65D1004G26	3	1019, 1025, 1038
SS1, SS2, SS10	SWITCH, ELS, SER 24, BKR CTRL, ELECTROSWITCH	2452D	3	
11133	CAT6 15FT SHIELD CBL 600V BLUE SUPERCEDES CAT6-15	EY6FEN1006015	3	
	ALUMINUM ID LABEL VC-W SWGR GREENWOOD MV SWGR PRODUCTS MASTER DOCUMENT IS ASHEVILLE CONTROLLED	478C642H15	1	
MT1, MT2	PXM2280 METER/DISPLAY 60HZ 5A 90-265V AC/DC	PXM2280MA65105	2	1021, 1035
10440, 10717	CAT6 20FT SHIELD CBL 600V BLUE SUPERCEDES CAT6-20	EY6FEN1006020	4	
CB1, CB3, CB8	PROT/CTRL, CH, BREAKER, GHC, 1 CUTLER HAMMER	GHC1030	3	1041, 1048, 1061
CB2, CB4, CB9	WMZS BREAKER 2P 15A 240VAC ONLY	FAZ-B15/2-NA	3	1042, 1055, 1062
CR1, CR2, CR6, CR7, CR9, CR10	FINDER CAT# 22.32.0.120.1320	3A40940H01	6	1043, 1044, 1050, 1051, 1063, 1064
CTD1, CTD2, CTD3	PROT/CTRL, ITI, CAP-TRIP, 120V BOS FROM ITI	CTD-2	3	1040, 1047, 1060
11133, 10440, 10717	5.2 MM TAGS PRINTED 1-10 HORIZONTAL PACK OF 10	XBMZB5H/1	3	
11133, 10440, 10717	5.2 SPRING CLIP 3 WIRE BLUE TB 28-12AWG	XBPT25D12BU	48	
11133, 10440, 10717	END COVER,TB,ETN	XBACPT25D12	3	
11133, 10440, 10717	PARTITION PLATE,TB,ETN	XBATPT4	3	
CT1, CT2, CT3, CT5, CT6	CT STD. SINGLE RATIO 800/5	3A40852G11N	5	
SS3, SS5, SS11	1 SW/MOC-26,OPER TEST & CONN WIRED	7797C24G12	3	
SS4, SS6, SS12	TOC WIRED SW 4A,3B-26 WIDE	7797C20G02	3	
CT4, CT7	ZERO SEQ CT,AMRAN,MODEL CT355, 50:5 A C10, SPEC. DES	CT355-500-01	2	
4ZL	TRML,COMPRESSION 350 KCMIL BOS T&B C# 54872BE	3A40877H12	6	
COM4	EATON RJ45 SOCKET W/ COVER	M22-RJ45-SA	1	1027
LT5	E34, INDICATING LIGHT PUSH TO TEST GREEN LED 24VDC	E34FPB297LGP24	1	1029
LT6	E34, INDICATING LIGHT PUSH TO TEST RED LED 24VDC	E34FPB297LRP24	1	1030
PB1, PB2	PUSHBUTTON, EATON IN.O. FLUSH BLACK	10250T23B	2	1031, 1032
PLC1	PLC, EATON, HMI MOUNTED BY GREENWOOD	MR580CMH02	1	
SS7	SW,SER-24,4-STG,NP MAN-AUTO	3A84591G02	1	1028
	CAT6 10FT LONG SHIELDED CABLE SUPERCEDES CAT6-10	EY6FEN1006010	3	
C1	RELAY, CH, CN-55, 3POLE SIZE 1 120VAC/60HZ 110VAC/50	CN55DN3AB	1	1059
FU1, FU3	PROT/CTRL,CH,PULL FUSE 2P W/6 AMP	3A40335G07	2	1052, 1057

				I - THE INFORMATION ON ALLATION AND CONSTRU		SUITABLE FOR USE	
		DFTR	DATE	THE INFORMATION ON THIS DOCUM			
		E.HUTCHENS 3/13/2019 CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.					
		APPD DATE TITLE CITY OF FLINT-3RD AVE. PUMP STATION					
		E.HUTCHENS	3/13/2019	FLINT, MI.			
		S.O.		TYPE		CUSTOMER	
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	ВОМ	
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET	
6064	341756464	3	Α	MDT0009310-008	MR580N1-P	2 OF 11	

CONSOLIDATED PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	MARKING
MISC1	POWER CORD NEMA 5/15R, 3 CONDU 9 FT LENGTH	079407-04949	1	
PS2	UPS,POWERWARE,5S700,700VA,420W 120VAC	5S700	1	1058
SS13	SW,SER-24,4-STG,NP BLANK	3A84591G01	1	1069
CR3, CR4, CR5, CR8, CR11, CR12	RELAY, SD, SER-219, XBXP DPDT W/SOC	3A40519G06	6	1045, 1046, 1049, 1056, 1065, 1066
	PLC, EATON, ELC MOUNTED BY GREENWOOD	MR580CMH01	1	
3CA, 4BA	CPT 5 KVA 1-PH 4160/240-120V CAST COIL CPT3-60-5-4161-A	506A004H39	2	
FU6, FU7, FU14, FU15, FU19, FU20	FUSE, 5.5KV 4E .81 DIA CAT# 5NCLPT-4E	7186A29G05	6	
FU8, FU9, FU10, FU11, FU12, FU13, FU16, FU17, FU18	PRI-FUSE, CH, CLE, 5.5KV 1.0E CAT.#5NCLPT-1E-1A	5981C05G05	9	
PT1, PT2, PT3, PT4, PT5, PT6	VT PTW3 4200/120V LG,120V SEC BOS ITI# PTW3-1-60-422CWL	1С19636Н23	6	
3WL	TRML,COMPRESSION 2/0 AWG BOS T&B C# 54862BE	3A40877H07	3	
COM2	POWER XPERT GATEWAY 900 24 VDC CONTROL POWER	PXG900	1	1024
COM6	MOXA,ETHERNET-SW, 16 PORTS	EDS-316	1	1070
FU2, FU21	PROT/CTRL, CH, PULL FUSE 2P W/ 2 3 AMP FUSES	3A40335G05	2	1053, 1071
PS1	IDEC POWER SUPPLY 125VDC-24VDC 60W	PS5R-VD24	1	1054
	CAT6 2FT SHIELD CBL 600V BLUE SUPERCEDES CAT6-2	EY6FEN1006002	1	
10699	PROT/CTRL, BUS, FUSE 6 AMPERE	73482AJ00G	3	
CB12	WRENCH ASSY, BOLTED	502A850G01	1	
CB13	RAIL EXTENSION LH/RH	7813C41G03	1	
	5/15 KV VACCLAD-W METAL-CLAD SWITCHGEAR INDOOR HOUSINGS 2010	IB02200001E	1	
	5/15KV RENEWAL PARTS LEAFLET	RP02201001E	1	
	INSTRUCTION BOOKLET FOR MR2 INSTRUCTION BOOK FOR MR2	IB022010EN	1	
	INSTRUCTIONS FOR INSTALLATION	IB022014EN	1	
	LABEL, ELEC ARC FLASH HAZARD BOS	69B1003H01	1	
	LABEL, SEISMIC IBC/CBC/UBC ASHEVILLE CONTROLLED DOCUMENT	272P088H01	1	
	MISC, PAINT, ANSI 61, 9OZ AERO 12 OZ SPRAY CAN (646548) (REF QUOTE #5258) NOTE P/N WAS 53836SF00K	32220WA00K	2	
	SEISMIC CERTIFICATE BOS	5676B22H01	1	
	VC SWGR, STORAGE INFORMATIN	700B214	1	
CB5, CB6, CB10	50 VCPWND 250, 1200A 60HZ, 3C 120VAC M&C, 120V CAP TRIP 3 CYCLES	3A75630G66	3	
CB14	DOCKABLE DOLLY, CH, VCPW, 5KV	6510C71G02	1	
CB15	LEVERING IN CRANK -CLOSED DOOR	701B601G03	1	
CB16	HANDLE ASSY ASSY	8064A02G01	1	
CB17	LIFT YOKE,NEW ND BKR & DHP-VR	691C607G12	1	

			ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR US IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.					
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		E.HUTCHENS	3/13/2019	ONLY TO BE USED FOR THE PURPO		5 -	' T - IA	
		APPD	DATE	TITLE CITY OF FLINT-3	RD AVE. PUMP STA	ATION		
		E.HUTCHENS	3/13/2019	FLINT, MI.				
		S.O.		TYPE		CUS	STOMER	
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR		BOM	
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET	
6064	341756464	3	Α	MDT0009310-008	MR580N1-P		3 OF 11	

CONSOLIDATED PARTS

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	MARKING
CB18	TEST JUMPER, CH, VCPW, 5KV 26I	1C15331G01	1	
CB19	LIFT DEVICE, CH, BREAKER BOS	1C19086H01	1	
	ADD COMP MAN & IBS TO DETAIL B REMINDER FLAG - ADD MANUALS & IBS TO SHIP DETAIL BOX FOR ALL COMPONENTS	NEEDCOMPM&IB/SS	1	
	BREAKER RAMP ROF PAN, FOR 36W ROF STYLE PAN	1C14163G08	1	
	CAT6 30FT SHIELD CBL 600V BLUE SUPERCEDES CAT6-30	EY6FEN1006030	1	
	FUSE 6AMPERE CONTROL	73482J00G	2	
	MR2 PENDANT W/ BKR OPEN/CLOSE REMOTE RACKING MR2 PENDANT	1C19848G01	1	

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		APPD DATE TITLE CITY OF FLINT-3RD AVE. PUMP STATION E.HUTCHENS 3/13/2019 FLINT, MI.				ATION
		s.o. MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	CUSTOMER BOM
PRODUCT CODE 6064	341756464	REVISION 3	А	G.o. MDT0009310-008	DWG MR580N1-P	sнеет 4 OF 11

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	MARKING
1ZG	COMPONENT, WES, CABLE CLAMP, 1 BOS	3723A23H02	1	

		ISSUED FOR CONSTRUCTION - THE INFORMATION ON THIS DOCUMENT IS SUITABLE FOR IN ESTABLISHING FINAL INSTALLATION AND CONSTRUCTION DETAILS.					BLE FOR USE
		DFTR	DATE	THE INFORMATION ON THIS DOCUMENT IS CREATED BY EATON			T _RI
		E.HUTCHENS 3/13/2019 CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT IS SUPPLIED.				' T - IA	
		APPD	DATE	TITLE CITY OF FLINT-3	RD AVE. PUMP ST	ATION	
		E.HUTCHENS	3/13/2019	FLINT, MI.			
		s.o.		TYPE		CUS	STOMER
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR		BOM
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET
6064	341756464	3	Α	MDT0009310-008	MR580N1-P		5 OF 11

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	MARKING
COM1, COM3	COMM,RJ-45,M22,ETH,BULKHEAD PASS-THROUGH RECEPTACLE W/ CAP	3A84518G02	2	1020, 1026
LT1, LT3	E34 PTT LIGHT RED 120VAC	E34FPB297LRP2A	2	1017, 1022
LT2, LT4	E34 PTT LIGHT GREEN 120VAC	E34FPB297LGP2A	2	1018, 1023
PR1, PR2	EDR-5000, 8I/11O, ZSI, 61850/MODBUS/DNP3 (RJ45) EDR-5000- 2A0HA1	65D1004G26	2	1019, 1025
SS1, SS2	SWITCH, ELS, SER 24, BKR CTRL, ELECTROSWITCH	2452D	2	
11133	CAT6 15FT SHIELD CBL 600V BLUE SUPERCEDES CAT6-15	EY6FEN1006015	3	
	ALUMINUM ID LABEL VC-W SWGR GREENWOOD MV SWGR PRODUCTS MASTER DOCUMENT IS ASHEVILLE CONTROLLED	478C642H15	1	
MT1	PXM2280 METER/DISPLAY 60HZ 5A 90-265V AC/DC	PXM2280MA65105	1	1021
10440	CAT6 20FT SHIELD CBL 600V BLUE SUPERCEDES CAT6-20	EY6FEN1006020	3	
CB1, CB3	PROT/CTRL, CH, BREAKER, GHC, 1 CUTLER HAMMER	GHC1030	2	1041, 1048
CB2, CB4	WMZS BREAKER 2P 15A 240VAC ONLY	FAZ-B15/2-NA	2	1042, 1055
CR1, CR2, CR6, CR7	FINDER CAT# 22.32.0.120.1320	3A40940H01	4	1043, 1044, 1050, 1051
CTD1, CTD2	PROT/CTRL, ITI, CAP-TRIP, 120V BOS FROM ITI	CTD-2	2	1040, 1047
11133, 10440	5.2 MM TAGS PRINTED 1-10 HORIZONTAL PACK OF 10	XBMZB5H/1	2	
11133, 10440	5.2 SPRING CLIP 3 WIRE BLUE TB 28-12AWG	XBPT25D12BU	32	
11133, 10440	END COVER,TB,ETN	XBACPT25D12	2	
11133, 10440	PARTITION PLATE, TB, ETN	XBATPT4	2	
CT1, CT2, CT3	CT STD. SINGLE RATIO 800/5	3A40852G11N	3	
SS3, SS5	1 SW/MOC-26,OPER TEST & CONN WIRED	7797C24G12	2	
SS4, SS6	TOC WIRED SW 4A,3B-26 WIDE	7797C20G02	2	
CT4	ZERO SEQ CT,AMRAN,MODEL CT355, 50:5 A C10, SPEC. DES	CT355-500-01	1	
	TRML,COMPRESSION 350 KCMIL BOS T&B C# 54872BE	3A40877H12	3	

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		APPD	DATE		RD AVE. PUMP ST	ATION	
		E.HUTCHENS	3/13/2019	FLINT, MI.			
		s.o.		TYPE		CUS	STOMER
		MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR		BOM
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG		SHEET
6064	341756464	3	Α	MDT0009310-008	MR580N1-P		6 OF 11

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	MARKING
COM4	EATON RJ45 SOCKET W/ COVER	M22-RJ45-SA	1	1027
LT5	E34, INDICATING LIGHT PUSH TO TEST GREEN LED 24VDC	E34FPB297LGP24	1	1029
LT6	E34, INDICATING LIGHT PUSH TO TEST RED LED 24VDC	E34FPB297LRP24	1	1030
PB1, PB2	PUSHBUTTON, EATON 1N.O. FLUSH BLACK	10250T23B	2	1031, 1032
PLC1	PLC, EATON, HMI MOUNTED BY GREENWOOD	MR580CMH02	1	
SS7	SW,SER-24,4-STG,NP MAN-AUTO	3A84591G02	1	1028
	CAT6 10FT LONG SHIELDED CABLE SUPERCEDES CAT6-10	EY6FEN1006010	1	
C1	RELAY, CH, CN-55, 3POLE SIZE 1 120VAC/60HZ 110VAC/50	CN55DN3AB	1	1059
FU3	PROT/CTRL,CH,PULL FUSE 2P W/6 AMP	3A40335G07	1	1057
MISC1	POWER CORD NEMA 5/15R, 3 CONDU 9 FT LENGTH	079407-04949	1	
PS2	UPS,POWERWARE,5S700,700VA,420W 120VAC	5S700	1	1058
SS13	SW,SER-24,4-STG,NP BLANK	3A84591G01	1	1069
CR3, CR4, CR5, CR8, CR11, CR12	RELAY, SD, SER-219, XBXP DPDT W/SOC	3A40519G06	6	1045, 1046, 1049, 1056, 1065, 1066
	PLC, EATON, ELC MOUNTED BY GREENWOOD	MR580CMH01	1	
3CA	CPT 5 KVA 1-PH 4160/240-120V CAST COIL CPT3-60-5-4161-A	506A004H39	1	
FU6, FU7	FUSE, 5.5KV 4E .81 DIA CAT# 5NCLPT-4E	7186A29G05	2	
FU8, FU9, FU10	PRI-FUSE, CH, CLE, 5.5KV 1.0E CAT.#5NCLPT-1E-1A	5981C05G05	3	
PT1, PT2, PT3	VT PTW3 4200/120V LG,120V SEC BOS ITI# PTW3-1-60-422CWL	1C19636H23	3	
3WL	TRML,COMPRESSION 2/0 AWG BOS T&B C# 54862BE	3A40877H07	3	

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		APPD DATE TITLE CITY OF FLINT-3RD AVE. PUMP STATION FLINT, MI.				ATION
		s.o. MR58	30N1	MEDIUM VOLTAGE	SWITCHGEAR	CUSTOMER BOM
PRODUCT CODE 6064	341756464	REVISION 3	А	G.o. MDT0009310-008	DWG MR580N1-P	7 OF 11

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	MARKING
COM2	POWER XPERT GATEWAY 900 24 VDC CONTROL POWER	PXG900	1	1024
COM6	MOXA,ETHERNET-SW, 16 PORTS	EDS-316	1	1070
FU1	PROT/CTRL,CH,PULL FUSE 2P W/6 AMP	3A40335G07	1	1052
FU2, FU21	PROT/CTRL, CH, PULL FUSE 2P W/ 2 3 AMP FUSES	3A40335G05	2	1053, 1071
PS1	IDEC POWER SUPPLY 125VDC-24VDC 60W	PS5R-VD24	1	1054
	CAT6 2FT SHIELD CBL 600V BLUE SUPERCEDES CAT6-2	EY6FEN1006002	1	
COM5	COMM,RJ-45,M22,ETH,BULKHEAD PASS-THROUGH RECEPTACLE W/ CAP	3A84518G02	1	1039
LT7	E34 PTT LIGHT RED 120VAC	E34FPB297LRP2A	1	1036
LT8	E34 PTT LIGHT GREEN 120VAC	E34FPB297LGP2A	1	1037
MT2	PXM2280 METER/DISPLAY 60HZ 5A 90-265V AC/DC	PXM2280MA65105	1	1035
PR3	EDR-5000, 8I/11O, ZSI, 61850/MODBUS/DNP3 (RJ45) EDR-5000- 2A0HA1	65D1004G26	1	1038
SS10	SWITCH, ELS, SER 24, BKR CTRL, ELECTROSWITCH	2452D	1	
10717	CAT6 20FT SHIELD CBL 600V BLUE SUPERCEDES CAT6-20	EY6FEN1006020	1	
	CAT6 10FT LONG SHIELDED CABLE SUPERCEDES CAT6-10	EY6FEN1006010	2	
CB8	PROT/CTRL, CH, BREAKER, GHC, 1 CUTLER HAMMER	GHC1030	1	1061
CB9	WMZS BREAKER 2P 15A 240VAC ONLY	FAZ-B15/2-NA	1	1062
CR9, CR10	FINDER CAT# 22.32.0.120.1320	3А40940Н01	2	1063, 1064
CTD3	PROT/CTRL, ITI, CAP-TRIP, 120V BOS FROM ITI	CTD-2	1	1060
10717	5.2 MM TAGS PRINTED 1-10 HORIZONTAL PACK OF 10	XBMZB5H/1	1	
10717	5.2 SPRING CLIP 3 WIRE BLUE TB 28-12AWG	XBPT25D12BU	16	
10717	END COVER,TB,ETN	XBACPT25D12	1	
10717	PARTITION PLATE,TB,ETN	XBATPT4	1	
CT5, CT6	CT STD. SINGLE RATIO 800/5	3A40852G11N	2	
SS11	1 SW/MOC-26,OPER TEST & CONN WIRED	7797C24G12	1	
SS12	TOC WIRED SW 4A,3B-26 WIDE	7797C20G02	1	
10699	PROT/CTRL, BUS, FUSE 6 AMPERE	73482AJ00G	3	
FU11, FU12, FU13	PRI-FUSE, CH, CLE, 5.5KV 1.0E CAT.#5NCLPT-1E-1A	5981C05G05	3	
PT4, PT5, PT6	VT PTW3 4200/120V LG,120V SEC BOS ITI# PTW3-1-60-422CWL	1C19636H23	3	
4BA	CPT 5 KVA 1-PH 4160/240-120V CAST COIL CPT3-60-5-4161-A	506A004H39	1	
FU14, FU15	FUSE, 5.5KV 4E .81 DIA CAT# 5NCLPT-4E	7186A29G05	2	
CT7	ZERO SEQ CT,AMRAN,MODEL CT355, 50:5 A C10, SPEC. DES	CT355-500-01	1	
4ZL	TRML,COMPRESSION 350 KCMIL BOS T&B C# 54872BE	3A40877H12	3	

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		APPD E.HUTCHENS		TITLE CITY OF FLINT-3 FLINT, MI.	RD AVE. PUMP STA	ATION	
		s.o. MR58	30N1	TYPE MEDIUM VOLTAGE	SWITCHGEAR	CUSTOMER BOM	
PRODUCT CODE 6064	341756464	REVISION 3	А	G.o. MDT0009310-008	DWG MR580N1-P	8 OF 11	

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	MARKING
5ZG	COMPONENT, WES, CABLE CLAMP, 1 BOS	3723A23H02	1	

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		APPD	DATE	TITLE CITY OF FLINT-3	RD AVE. PUMP ST	ATION
		E.HUTCHENS	3/13/2019	FLINT, MI.		
		s.o. MR58	DON14	TYPE MEDIUM VOLTAGE		CUSTOMER
		IVIRO	DUINT	MEDIUM VOLTAGE	SWITCHGEAR	ВОМ
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET
6064	341756464	3	Α	MDT0009310-008	MR580N1-P	9 OF 11

DETAIL - ENERGIZATION

DEVICE ID	DESCRIPTION	PART NUMBER	QTY	MARKING
CB5, CB6, CB10	50 VCPWND 250, 1200A 60HZ, 3C 120VAC M&C, 120V CAP TRIP 3 CYCLES	3A75630G66	3	
CB14	DOCKABLE DOLLY, CH, VCPW, 5KV	6510C71G02	1	
CB15	LEVERING IN CRANK -CLOSED DOOR	701B601G03	1	
CB16	HANDLE ASSY ASSY	8064A02G01	1	
CB17	LIFT YOKE,NEW ND BKR & DHP-VR	691C607G12	1	
CB18	TEST JUMPER, CH, VCPW, 5KV 26I	1C15331G01	1	
CB19	LIFT DEVICE, CH, BREAKER BOS	1С19086Н01	1	
FU16, FU17, FU18	PRI-FUSE, CH, CLE, 5.5KV 1.0E CAT.#5NCLPT-1E-1A	5981C05G05	3	
FU19, FU20	FUSE, 5.5KV 4E .81 DIA CAT# 5NCLPT-4E	7186A29G05	2	
	ADD COMP MAN & IBS TO DETAIL B REMINDER FLAG - ADD MANUALS & IBS TO SHIP DETAIL BOX FOR ALL COMPONENTS	NEEDCOMPM&IB/SS	1	
	BREAKER RAMP ROF PAN, FOR 36W ROF STYLE PAN	1C14163G08	1	
	CAT6 30FT SHIELD CBL 600V BLUE SUPERCEDES CAT6-30	EY6FEN1006030	1	
	FUSE 6AMPERE CONTROL	73482J00G	2	
	MR2 PENDANT W/ BKR OPEN/CLOSE REMOTE RACKING MR2 PENDANT	1C19848G01	1	

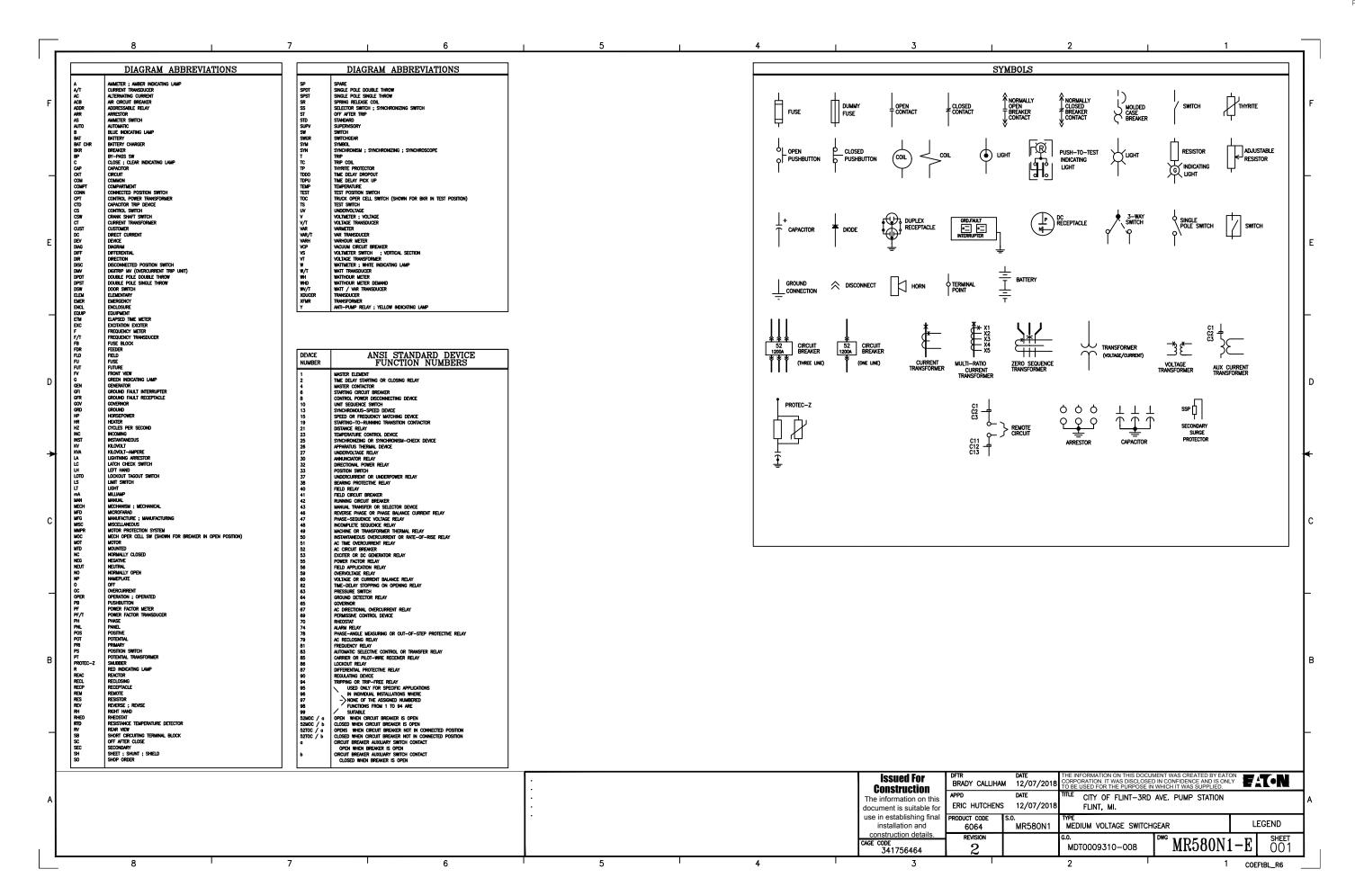
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		APPD	DATE	TITLE CITY OF FLINT-3	BRD AVE. PUMP ST	ATION	
		E.HUTCHENS	3/13/2019	FLINT, MI.			
		s.o. MR580N1		TYPE	CUSTOMER		
				MEDIUM VOLTAGE	ВОМ		
PRODUCT CODE	CAGE CODE	REVISION		G.O.	DWG	SHEET	
6064	341756464	3	Α	MDT0009310-008	MR580N1-P	10 OF 11	

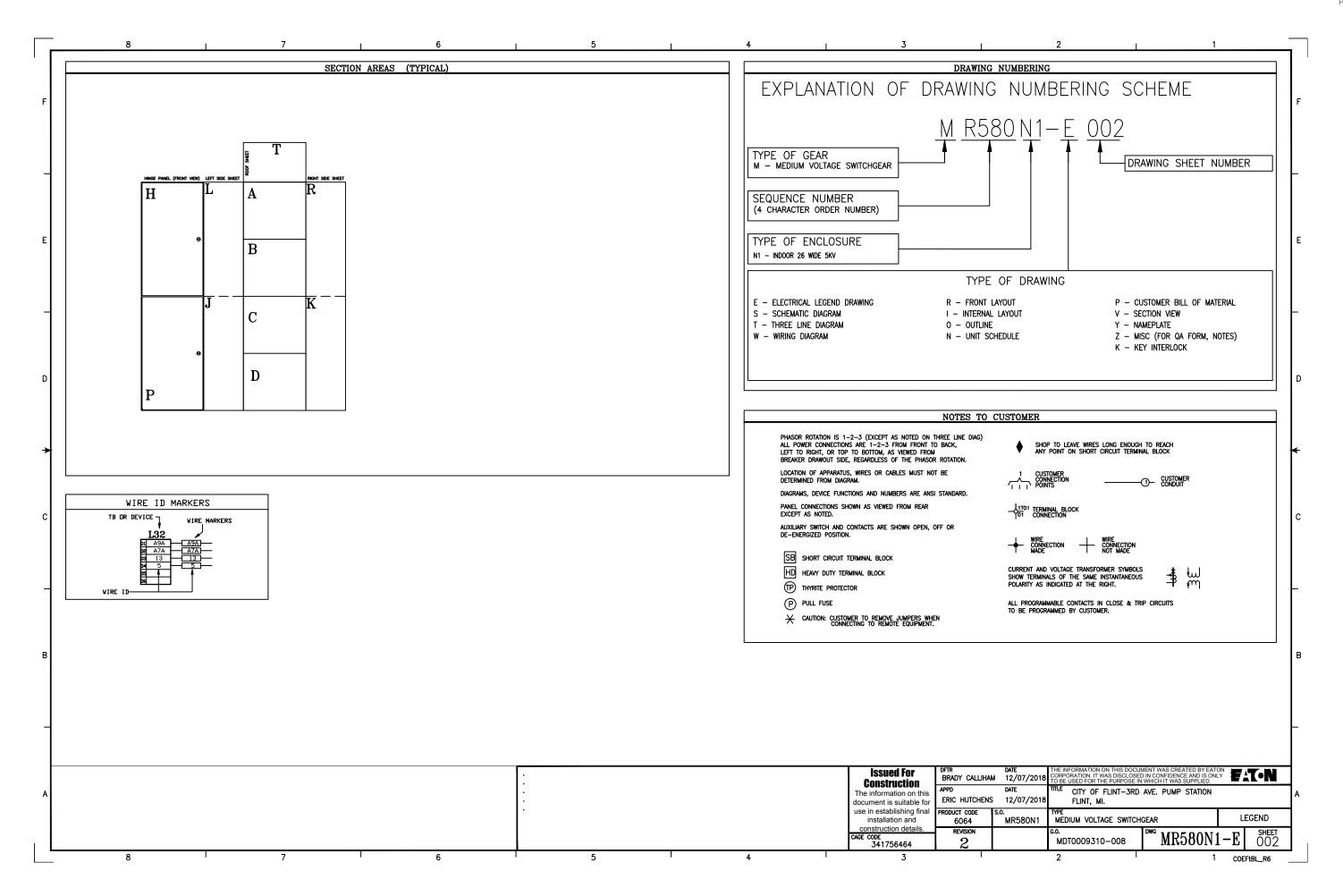
DETAIL - INSTALLATION

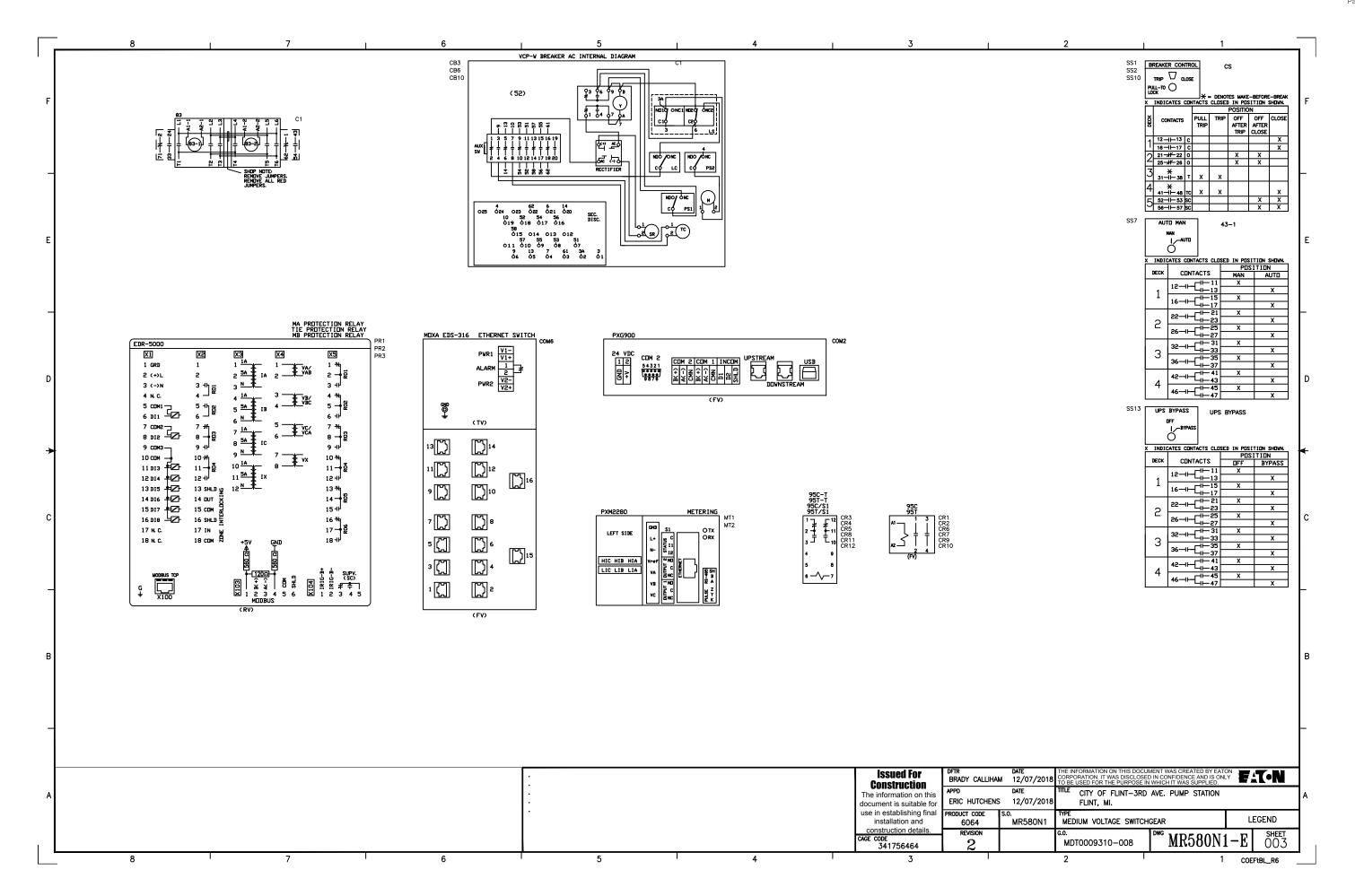
DEVICE ID	DESCRIPTION	PART NUMBER	QTY	MARKING
CB12	WRENCH ASSY, BOLTED	502A850G01	1	
CB13	RAIL EXTENSION LH/RH	7813C41G03	1	
	5/15 KV VACCLAD-W METAL-CLAD SWITCHGEAR INDOOR HOUSINGS 2010	IB02200001E	1	
	5/15KV RENEWAL PARTS LEAFLET	RP02201001E	1	
	INSTRUCTION BOOKLET FOR MR2 INSTRUCTION BOOK FOR MR2	IB022010EN	1	
	INSTRUCTIONS FOR INSTALLATION	IB022014EN	1	
	LABEL, ELEC ARC FLASH HAZARD BOS	69B1003H01	1	
	LABEL, SEISMIC IBC/CBC/UBC ASHEVILLE CONTROLLED DOCUMENT	272P088H01	1	
	MISC, PAINT, ANSI 61, 9OZ AERO 12 OZ SPRAY CAN (646548) (REF QUOTE #5258) NOTE P/N WAS 53836SF00K	32220WA00K	2	
	SEISMIC CERTIFICATE BOS	5676B22H01	1	
_	VC SWGR, STORAGE INFORMATIN	700B214	1	

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		APPD E.HUTCHENS	DATE 3/13/2019	TITLE CITY OF FLINT-3 FLINT, MI.	ATION				
		s.o. MR580N1		TYPE MEDIUM VOLTAGE	CUSTOMER BOM				
PRODUCT CODE 6064	341756464	REVISION 3	А	G.o. MDT0009310-008	DWG MR580N1-P	11 OF 11			

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000	2	REVISION SHEET	-					REATED			BRC	H +	12/7/2018
001	2	ABBREVIATIONS & SYMBOLS	1				 	EVISED FOR MF	G.		NOF	t	 04/12/2019
002	2	SECTION AREA, DWG NUMBER SCHEME	1									1	
003	2	SWITCH DEVELOPMENT & DEVICE INTERNALS	1										
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							Issued For	DFTR	DATE THI	E INFORMATION ON THIS DO	CUMENT WAS CR	EATED BY EATON	
			: :				Construction The information on this	APPD	DATE TITI	E INFORMATION ON THIS DO- RPORATION. IT WAS DISCLO- BE USED FOR THE PURPOSE CITY OF FLINT—3R	E IN WHICH IT WAS	S SUPPLIED. P STATION	E:L'IN
			 :				document is suitable for use in establishing final	PRODUCT CODE	12/0//2018 s.o. TY	FLINT, MI.		T	LEGEND
							installation and construction details. CAGE CODE	6064 REVISION	G.0			580N1	
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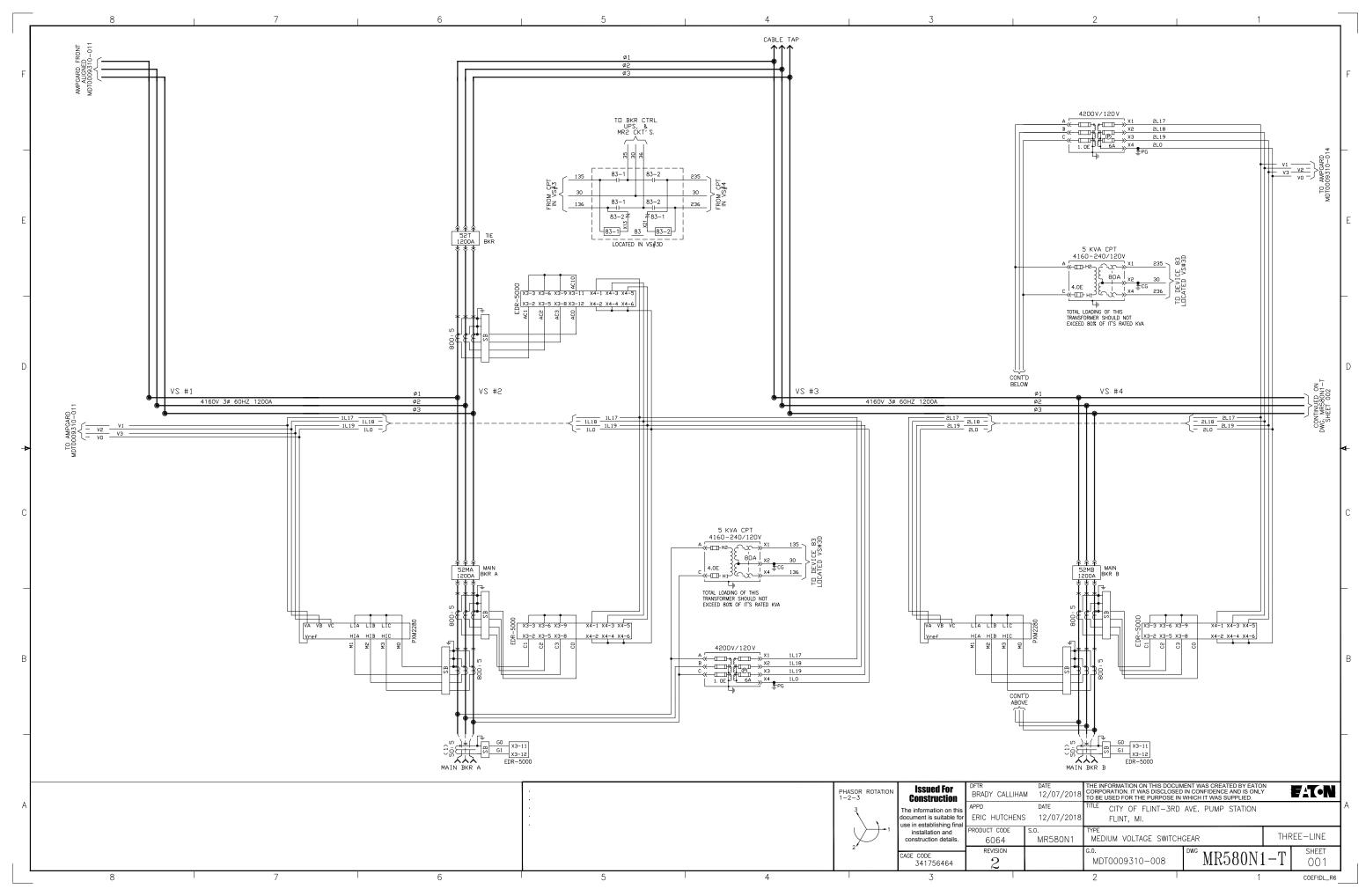




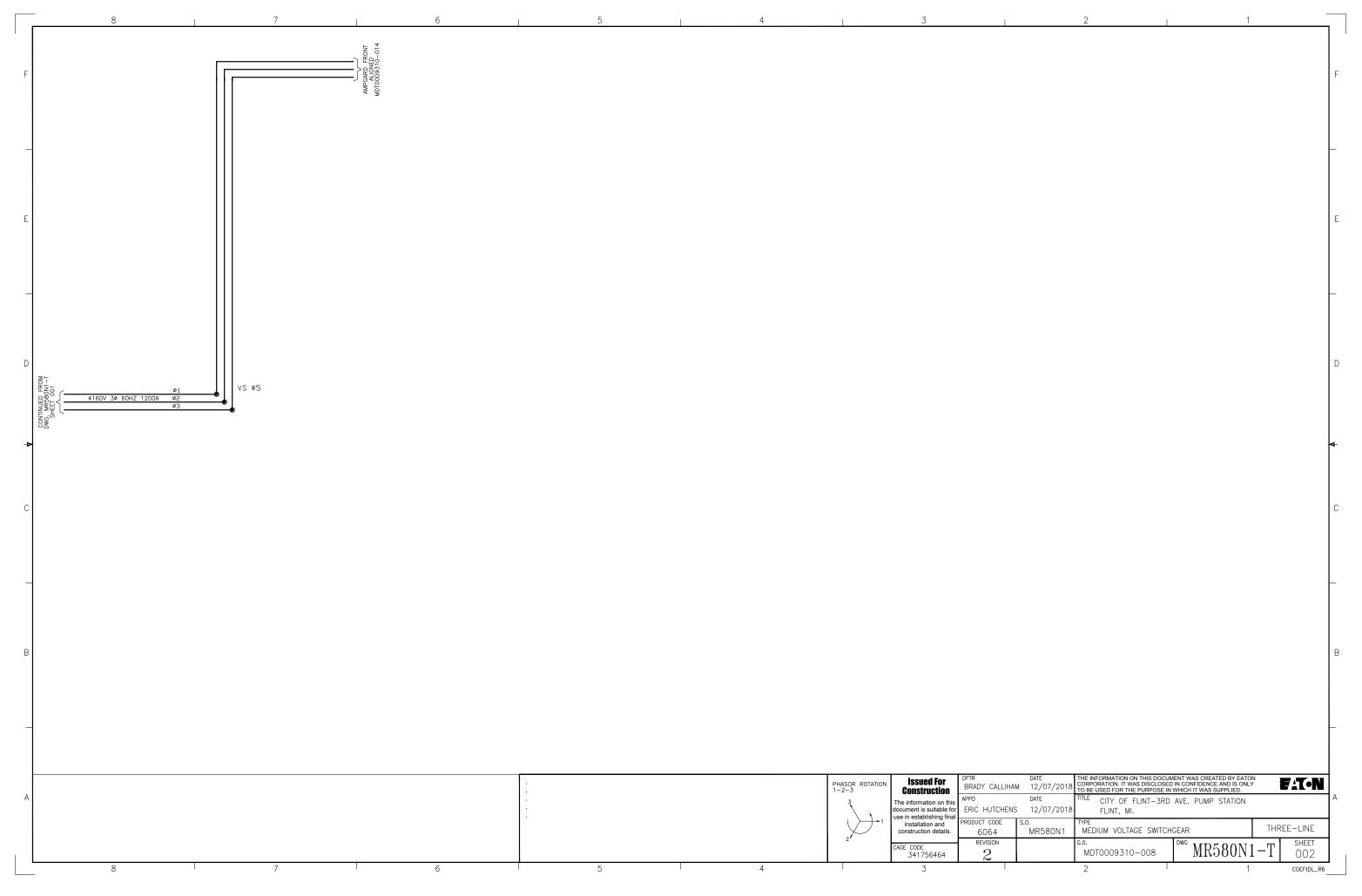


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REVISION STATUS		DEVISION	N HISTORY					
SHEET REV SHEET DESCRIPTION		REV REVISION DESCRIP		DATE				
000 2 REVISION SHEET		1 CREATED	BRC EH 12					
001 2 THREE-LINE 002 2 THREE-LINE								
		2 REVISED FOR MFG	NOF EH 4/	(15/2019				
							RE	EVISION S
	:		PHASOR ROTATION 1-2-3	Issued For Construction	D. ADY CALLIHAM 1	THE INFORMATION ON THIS DOG 2/07/2018 THE INFORMATION. IT WAS DISCLOS TO BE USED FOR THE PURPOSE	CUMENT WAS CREATED BY EATON SED IN CONFIDENCE AND IS ONLY IN WHICH IT WAS SUPPLIED.	FAT
			3	The information on this document is suitable for ERI	D. D. C. HUTCHENS 1	ATE TITLE CITY OF FLINT—3F 2/07/2018 FLINT, MI.	RD AVE. PUMP STATION	
			1	installation and	UCT CODE S.O.	TYPE MEDIUM VOLTAGE SWIT	CHGEAR	THREE-LII
			2'		REVISION 2	G.O. MDT0009310-008	DWG MR580N1-	
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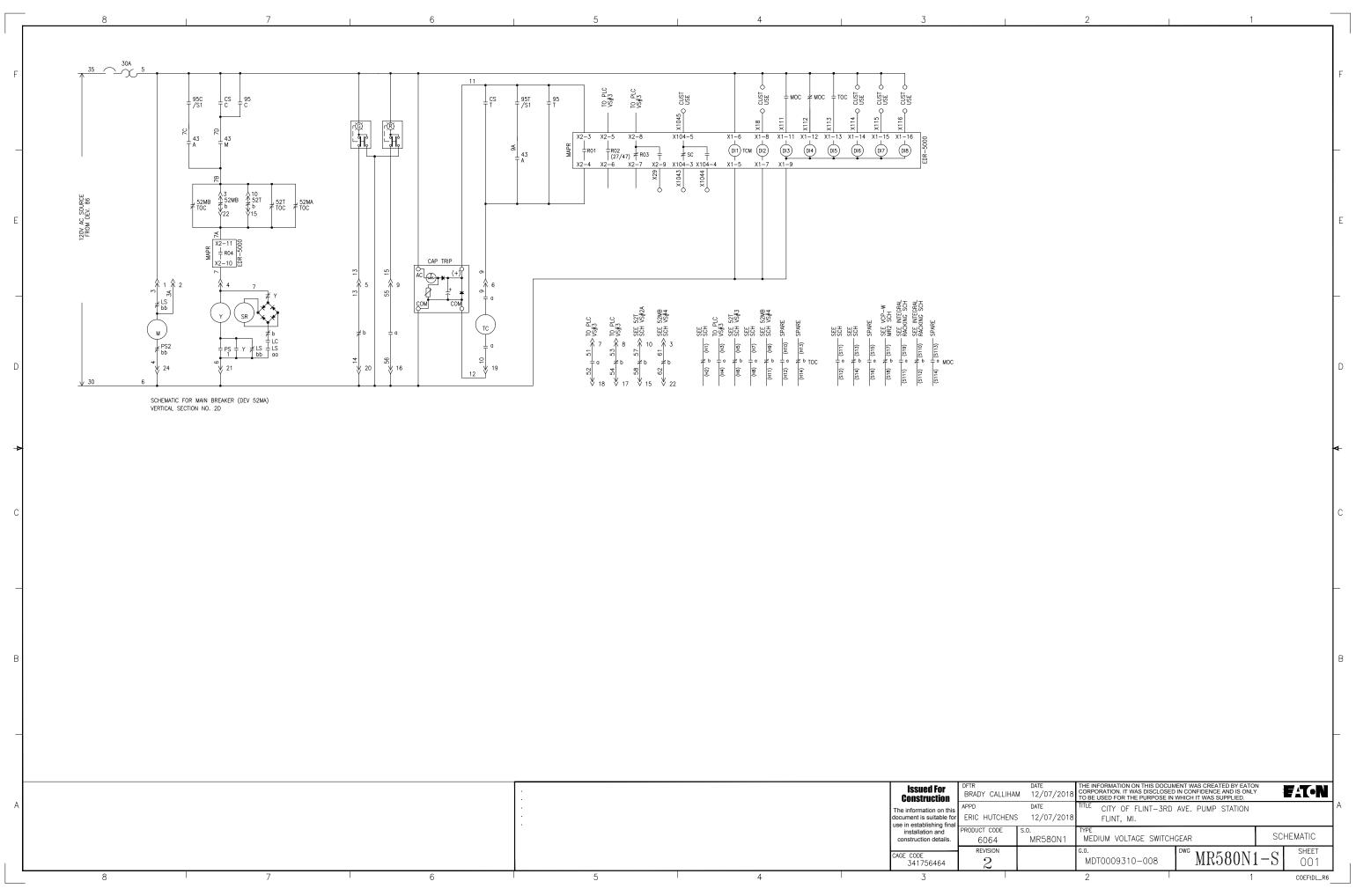


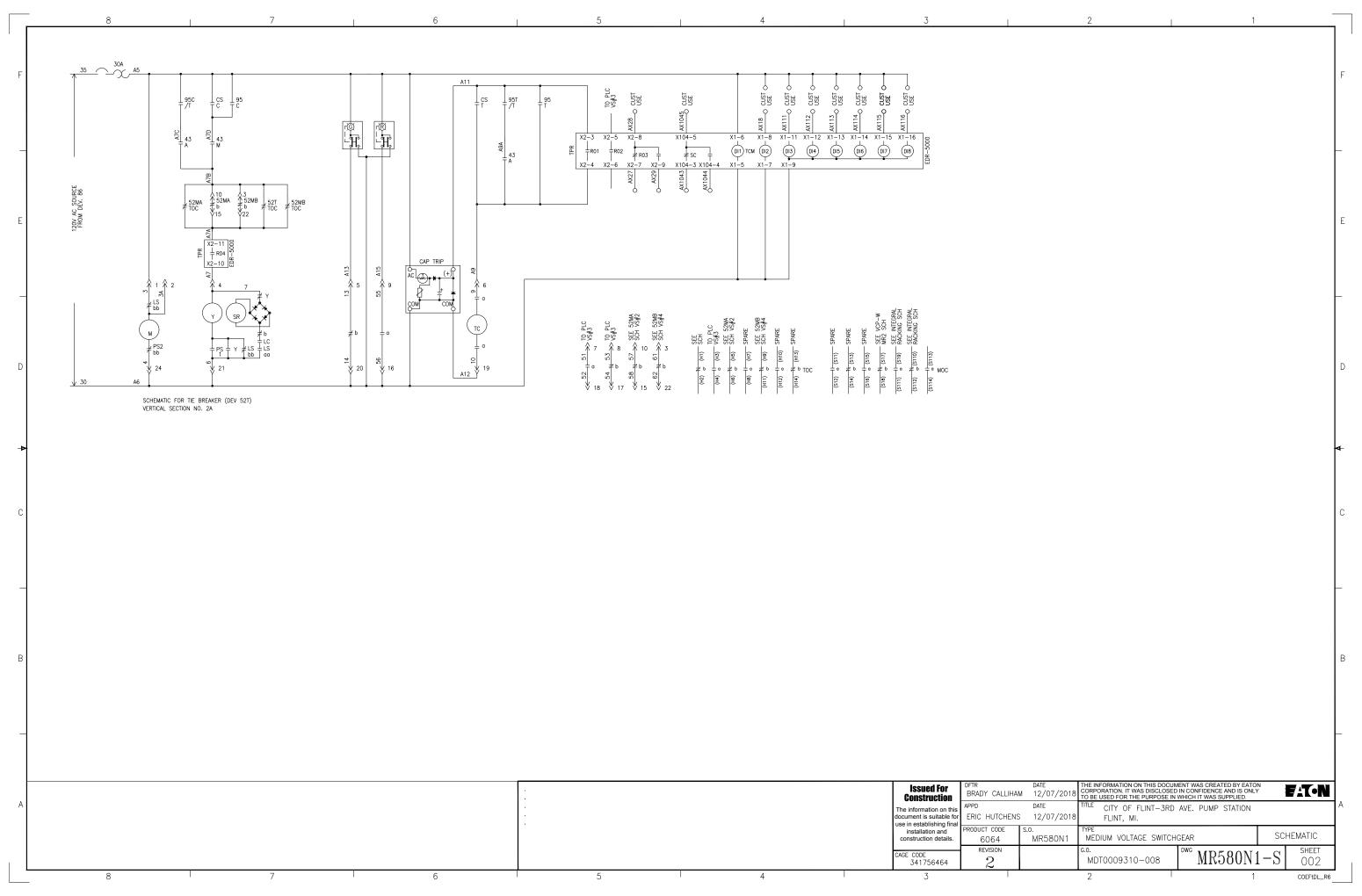
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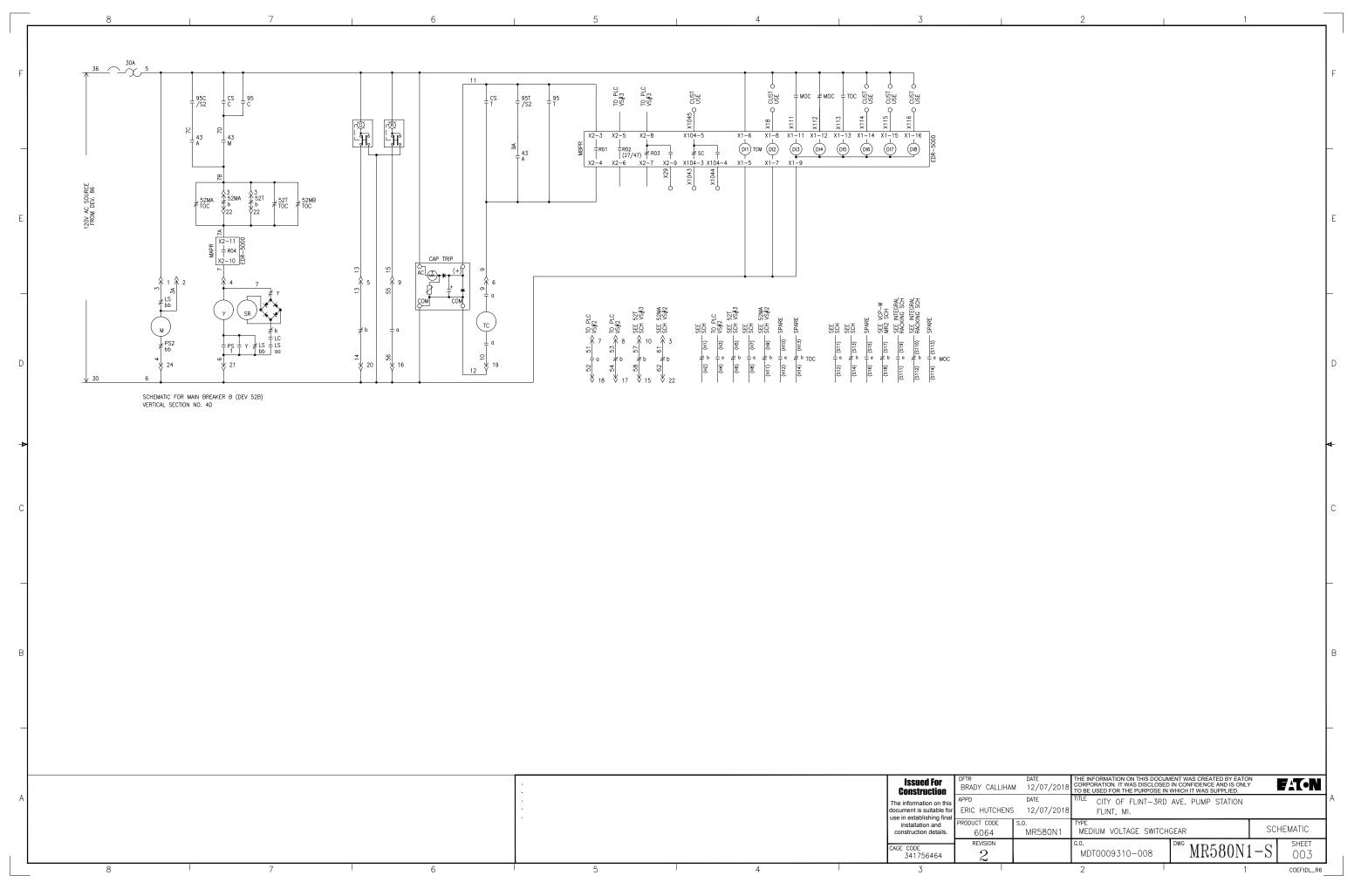


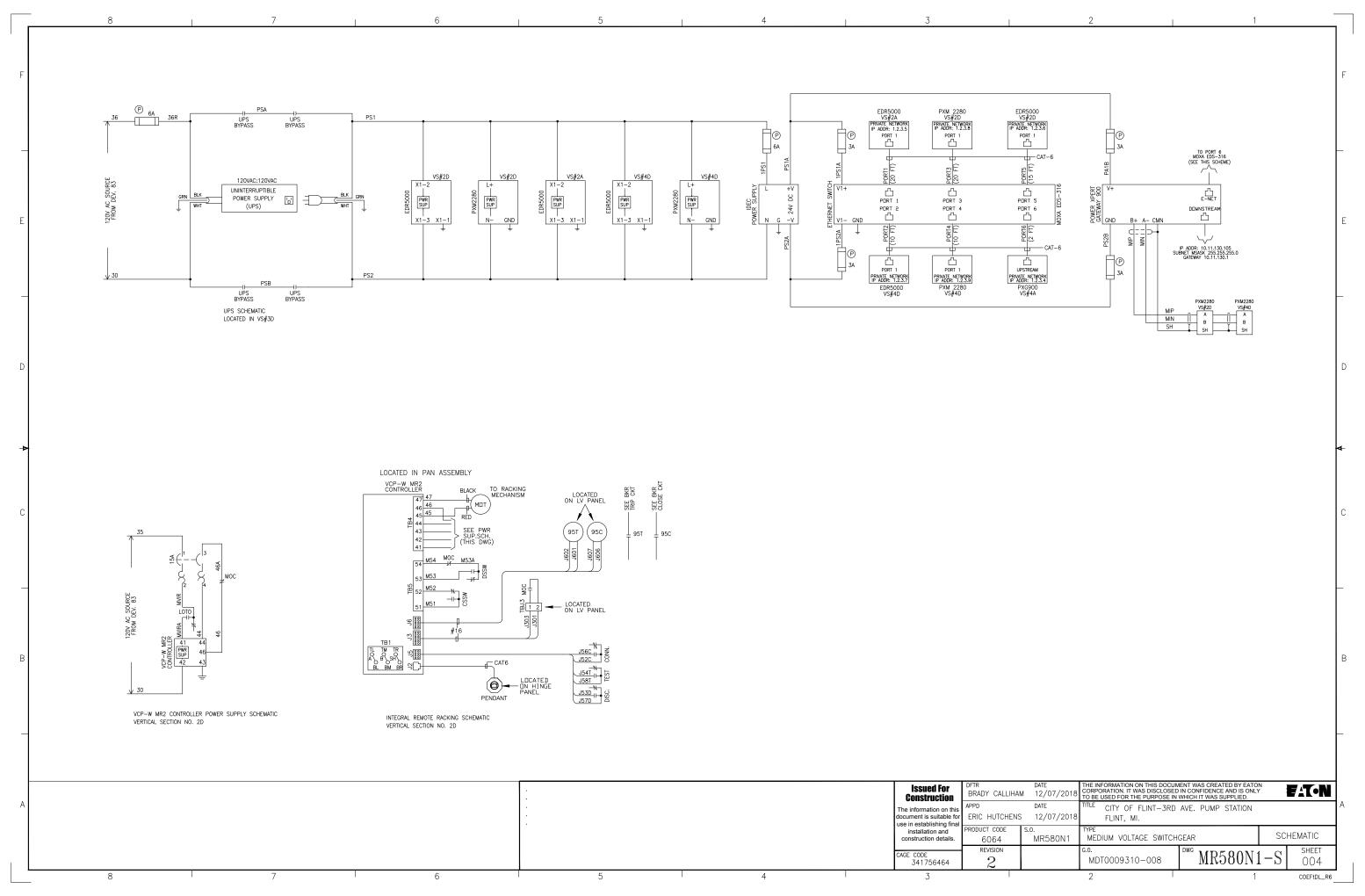
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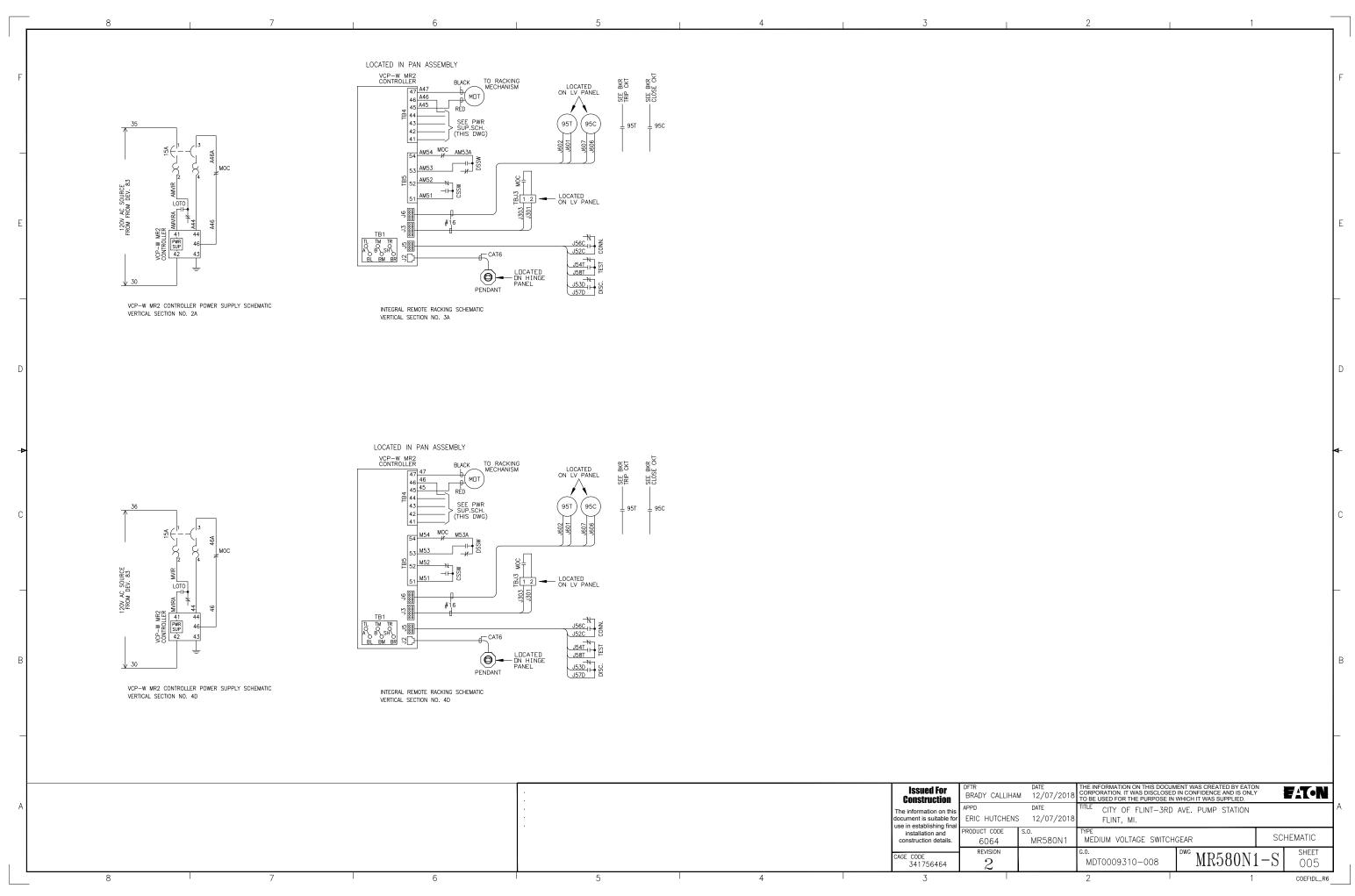
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											installation and construction details.	6064	MR580N1	MEDIUM VOLTAGE S		SCHEMA	
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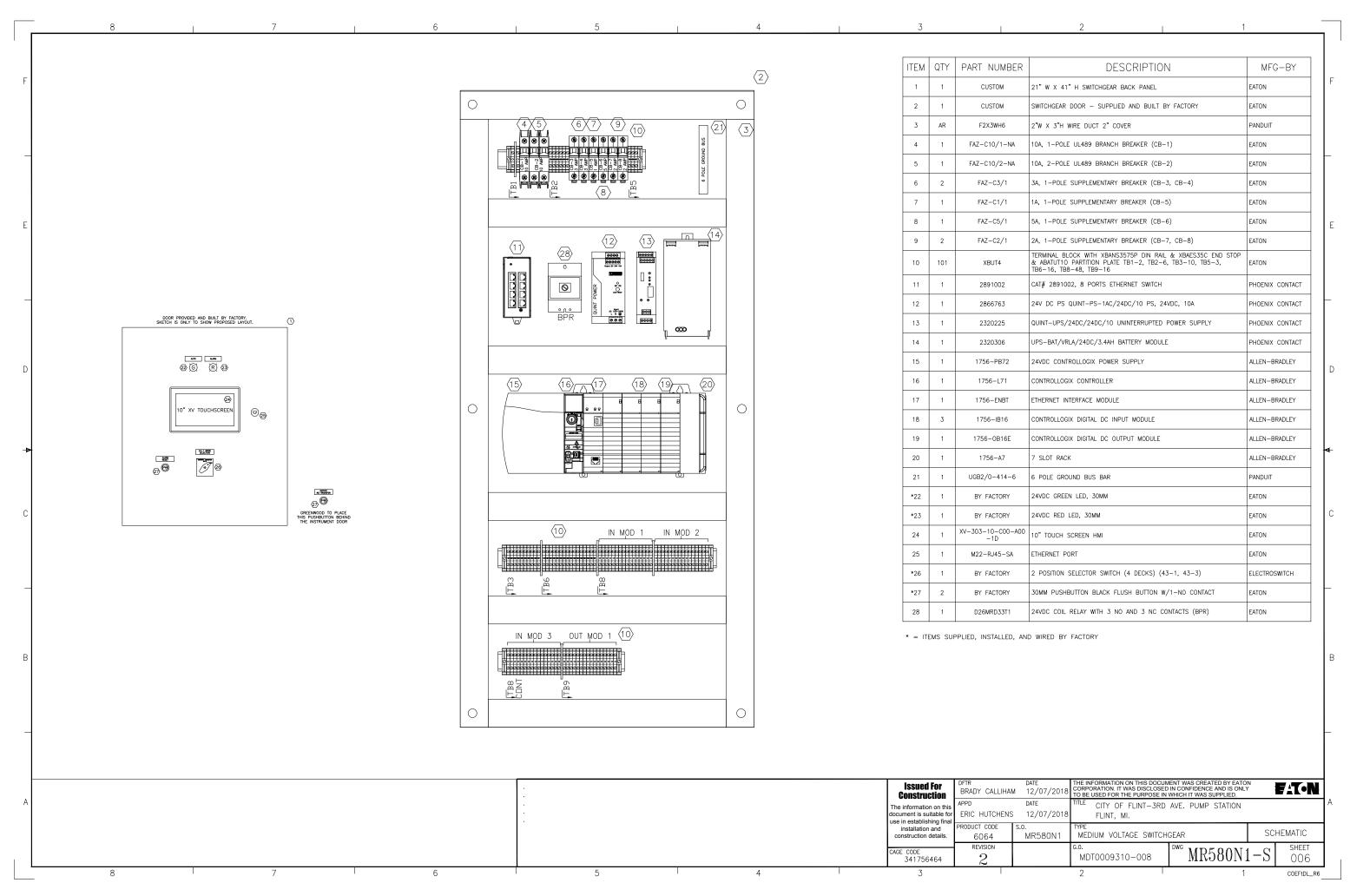


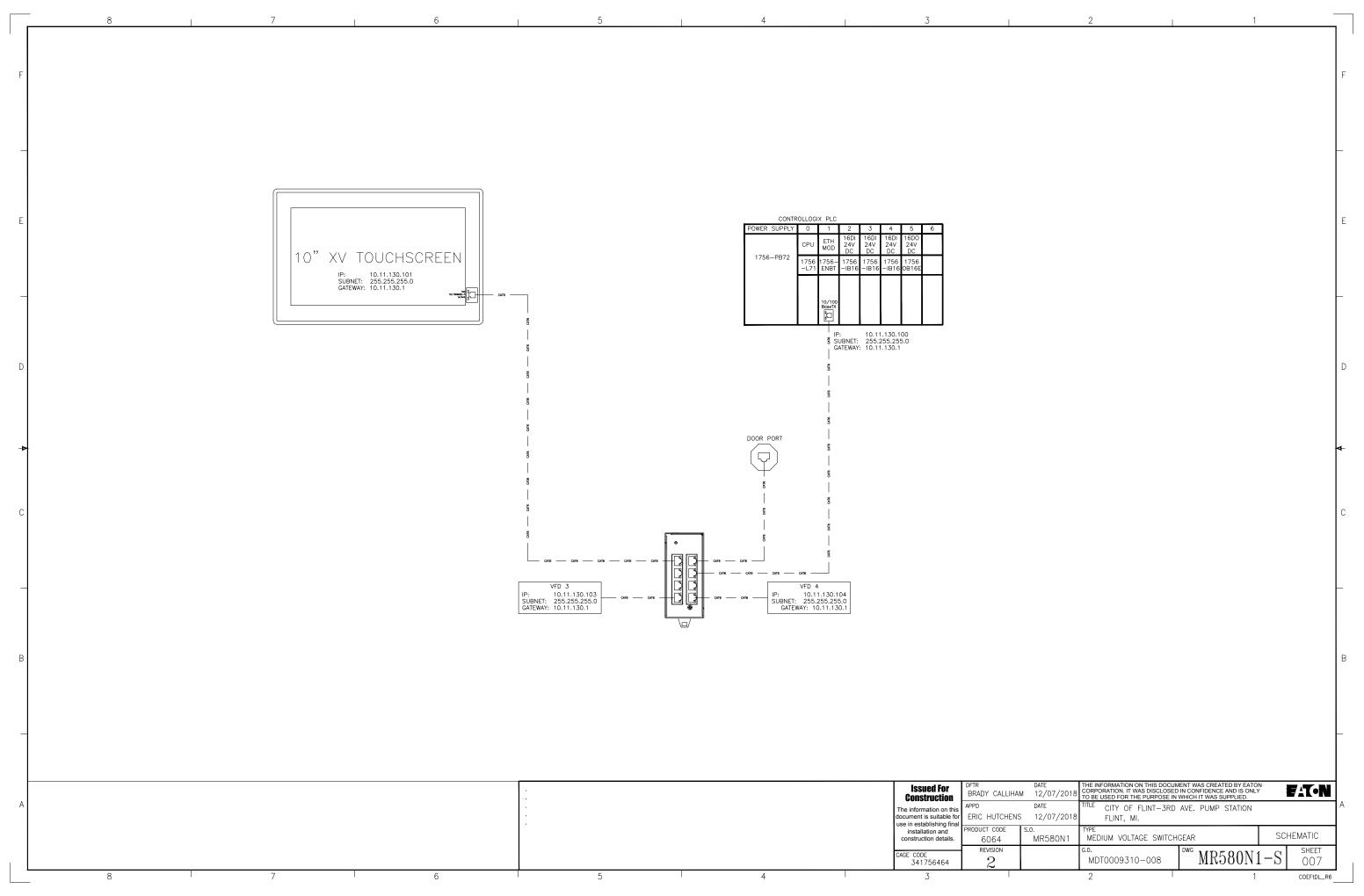


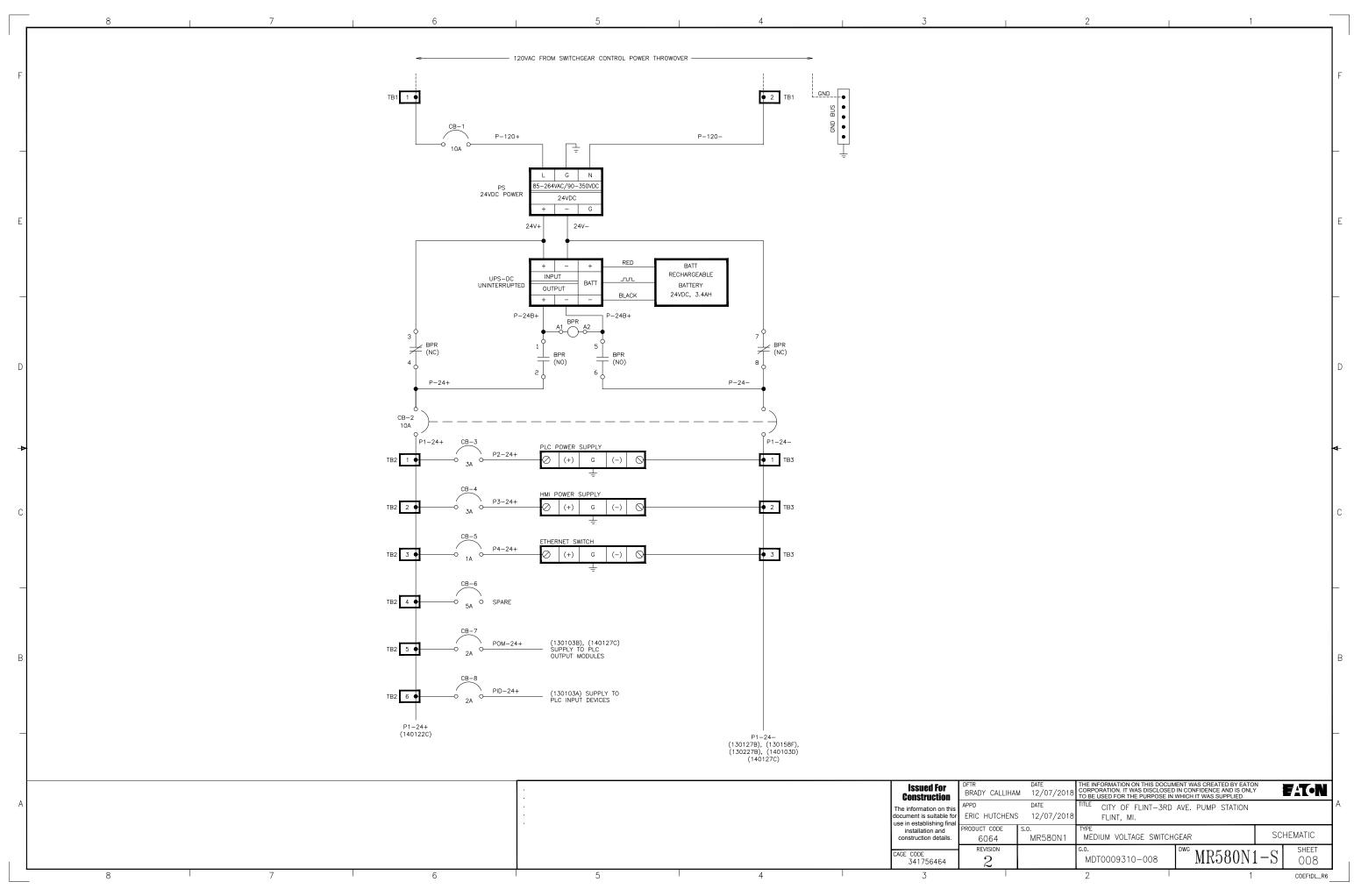




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			(120124B) PID-24+ 	(120122B) POM-24+									
			TB6 1 ◆ 16	TB5 1 POM-24+		1756-IB16 SECTION PLC RACK LOCAL							
						SLOT 1	<u>[</u>						
			TB6 1 ♦	TB8 1100	1 INPUT L:1:I.0	PLC INPUT SUPPLY OK							
				43-1/MAN -42	2 INPUT L:1:I.1	PLC OUTPUT SUPPLY OK							
Е			TB6 2 •	43 1102 1102 43-1/AUTO 41 1103 1103	3 INPUT L:1:1.2	SELECTOR SWITCH 43-1 IN MANUAL POSITION SELECTOR SWITCH 43-1	ļ						Ε
				ALRM/RESET 1104 1104 1104	3 2.1.1.3	IN AUTO POSITION ALARM RESET							
				1105	5 INPUT L:1:1.4 6 INPUT 5 L:1:1.5	PUSHBUTTON SPARE	ł						
-				1106	7 INPUT 1:1:16	SPARE	ł						-
				1107	8 INPUT L:1:1.7	SPARE	1						
				1108	7 - 11 INPUT L:1:I.8	SPARE	1						
D				INIT/RE-TXFR 3 4	-	INITIATE RE-TRANSFER PUSHBUTTON	1						D
				1110	13 INPUT L:1:1.10	SPARE	1						
				1111	→ 14 INPUT L:1:I.11	SPARE	1						
→				BPR (NC)	15 INPUT L:1:1.12	SPARE]						4
			TB6 3 •	(NC) -011 120 1113 1113	——————————————————————————————————————	UPS BYPASSED]						
			TB6 4 ◆	UPS/ALRM 1114 1114 1114 1114 UPS/BATT	17 INPUT L:1:1.14	24VDC UPS ALARM							С
				UPS/BATT 23 24 1115 1115	18 INPUT L:1:1.15	24VDC UPS ON BATTERY							
				P1-24-	● 9 GND-0								
				P1-24-		_							
				• • • • • • • • • • • • • • • • • • • •	19 GND-1		l						
				A 1707	Ø 20 GND−1	<u> </u>	J						
В				♦ 4 TB3									В
			PID-24+ (130134A)	P1-24- (120128C)									
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				Ţ.		I	Issued For	DFTR	DATE 10 (07 (0040)	THE INFORMATION ON THIS	DOCUMENT WAS CREATED BY EAT CLOSED IN CONFIDENCE AND IS ON	TON FIT-N	
А				· ·			Construction The information on this	APPD	DATE	TITLE CITY OF FLINT	OSE IN WHICH IT WAS SUPPLIED. - 3RD AVE. PUMP STATION		A
							document is suitable for use in establishing final installation and construction details.	PRODUCT CODE 6064	s.o. MR580N1	FLINT, MI. TYPE MEDIUM VOLTAGE S	WITCHGEAR	SCHEMATIC	-
							CAGE CODE 341756464	REVISION 2		G.0. MDT0009310-00	DWG MDFOON		
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<u> </u>				(130127A) PID-24+ 													
										1756-IB SECTION	16 PLC						
										RACK SLOT	LOCAL 2						
				TB6 5 •	MA/27/47 X2-5 MA/27/47 X2-6	TB8 1200	Ø 1	INPUT 0	L:2:I.0	SOURCE 1: HEALTHY FROM EDR-5000							
						1201	Ø 2	INPUT 1	L:2:I.1	SPARE							
						1202	Ø 3	INPUT 2	L:2:I.2	SPARE							E
				TB6 6 •		1203	⊘ 4	INPUT 3	L:2:I.3	SPARE							
					52−MA 18 −−-	1204	Ø 5	INPUT 4	L:2:I.4	MAIN BREAKER 52-MA CLOSED							
					52-MA/b 8 17 	1205	⊘ 6	INPUT 5	L:2:I.5	MAIN BREAKER 52-MA OPEN							
7					52-MA/TOC H3 H4 	1206	⊘ 7	INPUT 6	L:2:I.6	MAIN BREAKER 52-MA RACKED IN							
					52-MA/TR X2-8 X2-9 0 1	1207	⊘ 8	INPUT 7	L:2:I.7	MAIN BREAKER 52-MA TRIPPED FROM EDR-5000							
				тве 8 •	MB/27/47 X2-5 M X2-6 O O O	1208 1208	Ø 11	INPUT 8	L:2:I.8	SOURCE 2: HEALTHY FROM EDR-5000							
ט						1209	Ø 12	INPUT 9	L:2:I.9	SPARE							D
						1210	2 13	INPUT 10	L:2:I.10	SPARE							
					52 MB	1211	⊘ 14	INPUT 11	L:2:I.11	SPARE							
→				тве 9 •		1212 1212	2 15	INPUT 12	L:2:I.12	MAIN BREAKER 52-MB CLOSED							4
					8	1213	2 16	INPUT 13	L:2:I.13	MAIN BREAKER 52-MB OPEN							
					H3 H4	1214 1214	Ø 17	INPUT 14	L:2:I.14	MAIN BREAKER 52-MB RACKED IN							
С					X2-8 X2-9	1215	⊘ 18	INPUT 15	L:2:I.15	MAIN BREAKER 52-MB TRIPPED							С
						P1-:	24− Ø 9	GND-0									
							⊘ 10	GND-0									
1						P1-:	24- 0 19	GND-1									
							⊘ 20	GND-1									
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											use in establishing final installation and construction details.	PRODUCT CODE 6064	s.o. MR580N1	TYPE MEDIUM VOLTAGE	SWITCHGEAR	SCH	HEMATIC
											CAGE CODE 341756464	REVISION 2		G.O. MDT0009310-0	DOS DWG MR5	80N1-S	SHEET 010
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F		(130127A) PID-24+										F
						1756-IB16						
						SECTION PLC RACK LOCAL SLOT 3						
-			TB8 1300	C INPUT		SPARE SPARE						-
		TB6 10 ♦	52-T/o 7 18 1301 1301 1301	1 INPUT 0 INPUT		TIE BREAKER 52-T						
		TB6 11 •	52-T/b 8 17 1302 1302	2 1	L.J.I. 1	CLOSED TIE BREAKER 52-T						
Е			52-T/T0C H3 H4 - 1303 1303	3 INPUT	-	OPEN TIE BREAKER 52-T						E
			52=T/TR 0 1304	✓ 4 INPUT	E.3.1.3	RACKED IN						
			52-T/TR X2-5 X2-6 1304 1304	5 INPUT	4	TIE BREAKER 52-T TRIPPED FROM EDR-5000						
			1305	-Ø 6 INPUT 5		SPARE						
			1306	7 INPUT 6	2.011.0	SPARE						
			1307	-Ø 8 INPUT 7	L:3:1.7	SPARE						
		TB6 12 ♦	1308	-Ø 11 NPUT 8	L:3:1.8	SPARE						D
الا			1309	1 2	L:3:l.9	SPARE						
		TB6 13 ●	1310	- Ø 13 INPUT 10	L:3:I.10	SPARE						
		TB6 14 ♦	1311	-Ø 14 INPUT	L:3:I.11	SPARE						
→			1312	✓ 15 INPUT	L:3:I.12	SPARE						
			1313	✓ 16 INPUT		SPARE						
			1314	✓ 17 INPUT	_	SPARE						
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В			● 6 TB3									В
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							use in establishing final	PRODUCT CODE 6064	s.o. MR580N1	TYPE MEDIUM VOLTAGE SWIT	rchgear	SCHEMATIC
							CAGE CODE 341756464	REVISION 2	MINOSOIVI	G.O. MDT0009310-008	DWG MR580N1	
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	(120128C) P1-24-	
	1756-0816	
	1756-0B16 SECTION PLC RACK LOCAL SLOT 5 RELAYS TB3 8 ● 10 SWITCHGEAR AND SUPPLIED BY AFCTORY	
	MAIN DEFAUED 52 C1 1500 TB9 1500 495T/S1 B	
	MAIN BREAKER 52-S1 LEGO 1 OUTPUT 2 0 1501 TB9 1501 A 0 B	
	MAIN BREAKER 52-S2	E
	MAIN BREAKER 52-S2 1503 TB9 1503 PSC-/S2 1503 PSC-/S2 1503 PSC-/S2 PSC	
	TIE BREAKER 52-T 1504 0UTPUT 5 0 1504 7507/T 8	
	TIE BREAKER 52-T 1505 OUTPUT 6 0 1505 1505 A 0 0 B	
1	SPARE 1.5:0.6 OUTPUT 7 N 1506 1506	
	SPARE L:5:0.7 OUTPUT 8 0 1507	
	SPARE 1508 OUTPUT 11 N 1508	
الا	SPARE 1.5:0.9 OUTPUT 12 O 1500	D
	SPARE L:5:0.10 OUTPUT 13 O 1510 1510	
	SPARE L:5:0.11 OUTPUT 14 \(\sqrt{1511} \) 1511	
→	SPARE L:5:0.12 OUTPUT 15 S 1512 1512	4
	SPARE L:5:0.13 OUTPUT 1513 1513 1513	
	AUTOMATIC MODE ENABLED INDICATION L:5:0.14 AUTO/LT 1514 1514 AUTO/LT 1514 1514	
C	SUMMARY ALARM INDICATION L:5:0.15 OUTPUT 15 1515 IS15 ALRM/LT ALRM/LT	С
	DC+ 10 O POM-24+ (120125A) P1-24+	
1	DC- 19 N-P1-24-	
	DC+ 20 N POM-24+	
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	ISSUED FOR CONSTRUCTION DETR BRADY CALLIHAM DATE BRADY CALLIHAM 12/07/2018 THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	
A	The information on this document shall be found to the following the fol	A
	installation and construction details. 6064 MR580N1 MEDIUM VOLTAGE SWITCHGEAR SCHEMATIC	
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