4 World Trade Center, 150 Greenwich Street,21st Floor,New York, NY 10007
PORT AUTHORITY TRANS-HUDSON CORPORATION

Date 07/07/2015

REQUEST FOR QUOTATION

	Collective# / **/ Bid Due Date** 0000043048 / / 07/29/2015 Bids must be received no later than 11:00 AM on the above Bid Due Date. **Deliver Goods/Services To:** GLEN SMILEY ACADEMY STREET Jersey City NJ 07302
Contact person/Telephone Larry Waxman/212-435-4639	

Quantity	Description	Unit Price	Total
	FACTORY NEW REPLACEMENT CIRCUIT BREAKERS. QUANTITY: THREE (3) EACH. FURNISH AND DELIVER AS DESCRIBED BELOW AND PER ATTACHMENTS/DRAWINGS INCLUDING FTA REQUIREMENTS. Note: These items/services may be Federally funded in whole or in part. Accordingly, the Federal requirements will be required as part of the agreement and will be applicable to the performance of such service/supply of such items. NOTE: TO BIDDERS: WITH BID RESPONSE BIDDERS ARE TO RETURN AND COMPLETE WHERE APPLICABLE THE FOLLOWING: A COMPLETED REQUEST FOR QUOTATION (RFQ) FORM. ✓ A COPY OF THE MAY 2015 SPECIFICATION. A COPY OF THE DC TRACTION POWER CIRCUIT BREAKERS ASSOCIATED DRAWINGS. A COPY OF THE PURCHASE ORDER TERMS AND CONDITIONS. A COPY OF THE FEDERAL TRANSIT ADMINISTRATION REQUIREMENTS. A COMPLETED APPENDIX A1.		
	PLEASE QUOTE FULLY DELIVERED PRICES — **PAYMENT TERMS**	**Total Delivered Price**	

This Quotation is subject to the terms and conditions set forth on the back page hereof. Bidder is advised to read these before signing.

We have read the instructions and, if favored with an order, we agree to furnish the items enumerated herein at the prices and under the conditions indicated.

Signed _____
Firm Name _____
Telephone number_____Date_____
Fax Number_____
Federal Taxpayer ID _____

Bidder Must Sign In Two Places

NOTICE TO BIDDERS: Unless the following term of assurance that the above offer is irrevocable is signed, the offer submitted herein shall not be deemed to be complete.

The foregoing offer shall be irrevocable for 90 days after the date on which The PORT AUTHORITY TRANS-HUDSON CORPORATION opens this proposal.

Signed_____Date_____
Firm Name_____

4 World Trade Center, 150 Greenwich Street,21st Floor,New York, NY 10007
PORT AUTHORITY TRANS-HUDSON CORPORATION

REQUEST FOR QUOTATION

Bid Due Date
07/29/2015

Quantity	Description	Unit Price	Total
	A COMPLETED APPENDIX A2. A COMPLETED APPENDIX A3. UNIT PRICE PER CIRCUIT BREAKER $_____ TIMES THREE (3) EACH EQUALS $_____ (ONE LOT) TOTAL FOB DESTINATION. QUOTE FOB DESTINATION PRICING ON ALL ITEMS. IN THE EVENT OF AN ORDER ADVISE DELIVERY: A) VENDOR DRAWING SUBMITTAL FOR PATH APPROVAL IN_____DAYS. B) VENDOR DELIVERY OF CIRCUIT BREAKERS AFTER APPROVAL OF DRAWINGS IN _____ DAYS. A PLUS B = C: TOTAL DELIVERY IN DAYS: _____. WITH BID RESPONSE ADVISE CIRCUIT BREAKER EQUIPMENT TO BE OFFERED: MANUFACTURER: _____. PLANT LOCATION CITY/STATE/COUNTRY: _____. FINAL ASSEMBLY LOCATION CITY/STATE/COUNTRY: _____. MAKE/MODEL/PART NUMBER: _____. RFQ INFORMATION NOTES:		
	PLEASE QUOTE FULLY DELIVERED PRICES	PAYMENT TERMS **Total Delivered Price**	

This Quotation is subject to the terms and conditions set forth on the back page hereof. Bidder is advised to read these before signing.

We have read the instructions and, if favored with an order, we agree to furnish the items enumerated herein at the prices and under the conditions indicated.

Signed _____
Firm Name _____
Telephone number_____Date_____
Fax Number_____
Federal Taxpayer ID _____

Bidder Must Sign In Two Places

NOTICE TO BIDDERS: Unless the following term of assurance that the above offer is irrevocable is signed, the offer submitted herein shall not be deemed to be complete.

The foregoing offer shall be irrevocable for 90 days after the date on which The PORT AUTHORITY TRANS-HUDSON CORPORATION opens this proposal.

Signed_____Date_____
Firm Name_____

4 World Trade Center, 150 Greenwich Street,21st Floor,New York, NY 10007
PORT AUTHORITY TRANS-HUDSON CORPORATION

Date 07/07/2015

REQUEST FOR QUOTATION

Bid Due Date
07/29/2015

Quantity	Description	Unit Price	Total
	PLEASE FOLLOW RETURN TO BID INSTRUCTIONS. REPLY ONLY ON P.A./PATH REQUEST FOR QUOTATION FORM AS ATTACHING YOUR COMPANY'S TERMS & CONDITIONS MAY CAUSE YOUR BID TO BE DEEMED NON RESPONSIVE AND OR DELAY AN AWARD ISSUED. QUESTIONS ONLY CONTACT: LARRY WAXMAN TEL: 212 435 4639 OR EMAIL: Lwaxman@panynj.gov		
	PLEASE QUOTE FULLY DELIVERED PRICES	**PAYMENT TERMS**	**Total Delivered Price**

This Quotation is subject to the terms and conditions set forth on the back page hereof. Bidder is advised to read these before signing.

We have read the instructions and, if favored with an order, we agree to furnish the items enumerated herein at the prices and under the conditions indicated.

Signed _____
Firm Name _____
Telephone number_____Date_____
Fax Number_____
Federal Taxpayer ID _____

Bidder Must Sign In Two Places

NOTICE TO BIDDERS: Unless the following term of assurance that the above offer is irrevocable is signed, the offer submitted herein shall not be deemed to be complete.

The foregoing offer shall be irrevocable for 90 days after the date on which The PORT AUTHORITY TRANS-HUDSON CORPORATION opens this proposal.

Signed_____Date_____
Firm Name_____

4 World Trade Center, 150 Greenwich Street,21st Floor,New York, NY 10007
PORT AUTHORITY TRANS-HUDSON CORPORATION

Date 07/07/2015

REQUEST FOR QUOTATION

Bid Due Date
07/29/2015

Quantity	Description	Unit Price	Total
	This is a Formal Bid Invitation Mail Sealed Bids to: The Port Authority of NY & NJ Attn: Bid Custodian Procurement Department 4 World Trade Center 150 Greenwich Street, 21st Floor New York, NY 10007 by the date and time listed above, where it will be publicly opened and read. If you do not use or have an envelope provided, you must clearly mark the outside envelope/package with 'BID ENCLOSED' and show the company name, address, as well as Bid number and Due date as stated on this bid document. Bids are only accepted Monday through Friday, excluding Port Authority holidays, between the hours of 8 A.M. & 5 P.M., via regular mail, express delivery service or hand delivery. Express carrier deliveries by commercial vehicles can be made via vendors approved by Silverstein Properties, the 4 World Trade Center (4WTC) Property Manager, through the Vehicle Security Center (VSC). Presently, UPS is the only delivery vendor with approved recurring delivery times. There is extensive security at the World Trade Center Site. Individuals must present a valid government-issued photo ID		
	PLEASE QUOTE FULLY DELIVERED PRICES PAYMENT TERMS	Total Delivered Price	

This Quotation is subject to the terms and conditions set forth on the back page hereof. Bidder is advised to read these before signing.

We have read the instructions and, if favored with an order, we agree to furnish the items enumerated herein at the prices and under the conditions indicated.

Signed _____
Firm Name _____
Telephone number_____Date_____
Fax Number_____
Federal Taxpayer ID _____

Bidder Must Sign In Two Places

NOTICE TO BIDDERS: Unless the following term of assurance that the above offer is irrevocable is signed, the offer submitted herein shall not be deemed to be complete.

The foregoing offer shall be irrevocable for 90 days after the date on which The PORT AUTHORITY TRANS-HUDSON CORPORATION opens this proposal.

Signed_____Date_____
Firm Name_____

REQUEST FOR QUOTATION

Bid Due Date
07/29/2015

Quantity	Description	Unit Price	Total
	to enter 4 WTC. Individuals without packages or carrying small packages or boxes that can be conveyed by hand or on a hand truck may enter through the lobby. All envelopes, packages and boxes may be subject to additional security screening. There is no parking available at 4 WTC/150 Greenwich Street, and parking in the surrounding area is extremely limited. A valid government-issued photo ID is required to gain access into the building to attend the bid opening or hand deliver a bid. Bids that are not received by the bid custodian by the scheduled bid opening date will be considered late.		
1 LOT	DC High Speed Traction Circuit Breakers FACTORY NEW REPLACEMENT CIRCUIT BREAKERS must match existing PATH CPC switchgear cubicle for a reliable circuit breaker operation. The technical data and quantity of the required DC breakers are summarized below. DC Feeder Breaker		
	PLEASE QUOTE FULLY DELIVERED PRICES PAYMENT TERMS	Total Delivered Price	

This Quotation is subject to the terms and conditions set forth on the back page hereof. Bidder is advised to read these before signing.

We have read the instructions and, if favored with an order, we agree to furnish the items enumerated herein at the prices and under the conditions indicated.

Signed _____
Firm Name _____
Telephone number_____Date_____
Fax Number_____
Federal Taxpayer ID _____

Bidder Must Sign In Two Places

NOTICE TO BIDDERS: Unless the following term of assurance that the above offer is irrevocable is signed, the offer submitted herein shall not be deemed to be complete.

The foregoing offer shall be irrevocable for 90 days after the date on which The PORT AUTHORITY TRANS-HUDSON CORPORATION opens this proposal.

Signed_____Date_____
Firm Name_____

4 World Trade Center, 150 Greenwich Street,21st Floor,New York, NY 10007
PORT AUTHORITY TRANS-HUDSON CORPORATION

Date 07/07/2015

REQUEST FOR QUOTATION

Bid Due Date
07/29/2015

Quantity	Description	Unit Price	Total
	TYPE 4KAF with Trip Unit Range of 4KAT-16KAT GEC Type HSN-P Frame Size: 4000 amp Rated Max Voltage: 800 VDC Rated Continuous Current: 4000 AMPS DC Trip device: Bi-Directional, No Under Voltage Trip Rated Momentary Current: 173 ka Rated Peak Current: 200 ka Rated Short time Current: 80 ka Rated Short circuit Current: 200 ka Control Voltage: 125 VDC Width: 24" Style Serial #: A4269A Breakers must be fitted with P0085 Racking Shaft Kit [Old style] Reference Drawings: HSN CIRCUIT BREAKER DIMENSIONS, DWG #4386-D33, D-1055-1 AND 4386-D36 SH1 OF 2. DELIVERY REQUIREMENTS (IN THE EVENT OF AN ORDER):		
	PLEASE QUOTE FULLY DELIVERED PRICES	PAYMENT TERMS Total Delivered Price	

This Quotation is subject to the terms and conditions set forth on the back page hereof. Bidder is advised to read these before signing.

We have read the instructions and, if favored with an order, we agree to furnish the items enumerated herein at the prices and under the conditions indicated.

Signed _____
Firm Name _____
Telephone number_____Date_____
Fax Number_____
Federal Taxpayer ID _____

Bidder Must Sign In Two Places

NOTICE TO BIDDERS: Unless the following term of assurance that the above offer is irrevocable is signed, the offer submitted herein shall not be deemed to be complete.

The foregoing offer shall be irrevocable for 90 days after the date on which The PORT AUTHORITY TRANS-HUDSON CORPORATION opens this proposal.

Signed_____Date_____
Firm Name_____

4 World Trade Center, 150 Greenwich Street,21st Floor,New York, NY 10007
PORT AUTHORITY TRANS-HUDSON CORPORATION

REQUEST FOR QUOTATION

Bid Due Date
07/29/2015

Quantity	Description	Unit Price	Total
	The Vendor shall make delivery of all circuit breakers DRAWINGS FOR PATH REVIEW AND APPROVAL WITHIN TEN (10) CALENDAR DAYS OF AWARD NOTICE. The Vendor shall make delivery of all circuit breakers within one hundred forty (140) calendar days) after the approval of the submitted drawings as described above. CIRCUIT BREAKERS SHALL BE DELIVERED in a vehicle, suitable for unloading with a lift-gate. Delivery hours will be limited to weekdays between the hours of 8:00 a.m. to 2:00 pm. 48 hours advance notification shall be given to Mr. Glen Smiley, telephone No (201) 216-6962. Shipping address (IN THE EVENT OF AN ORDER): Port Authority Trans Hudson Corporation (PATH) 120 Academy Street, Jersey City, NJ 07302 Attn: Glen Smiley		
	PLEASE QUOTE FULLY DELIVERED PRiCES	PAYMENT TERMS	Total Delivered Price

This Quotation is subject to the terms and conditions set forth on the back page hereof. Bidder is advised to read these before signing.

We have read the instructions and, if favored with an order, we agree to furnish the items enumerated herein at the prices and under the conditions indicated.

Signed _____
Firm Name _____
Telephone number_____Date_____
Fax Number_____
Federal Taxpayer ID _____

Bidder Must Sign In Two Places

NOTICE TO BIDDERS: Unless the following term of assurance that the above offer is irrevocable is signed, the offer submitted herein shall not be deemed to be complete.

The foregoing offer shall be irrevocable for 90 days after the date on which The PORT AUTHORITY TRANS-HUDSON CORPORATION opens this proposal.

Signed_____Date_____
Firm Name_____

BID #Y3048

PORT AUTHORITY TRANS-HUDSON CORPORATION

ONE PATH PLAZA JERSEY CITY, NEW JERSEY 07306

FURNISH DC TRACTION POWER CIRCUIT BREAKERS TO PORT AUTHORITY TRANS HUDSON INC.

MAY 2015

Description:

Furnish and deliver a total of Three **(3) type HSN (P)** DC high speed truck circuit breakers that will be used in PATH substation 14. These breakers must **match** existing PATH CPC switchgear cubicle for a reliable circuit breaker operation. The technical data and quantity of the required DC breakers are summarized below.

DC Feeder Breaker

Breakers must be fitted with P0085 Racking Shaft Kit [Old style].

QTY (3) 4KAF with Trip Unit Range of 4KAT-16KAT

GEC Type HSN-P

Frame Size:	4000 amp
Rated Max Voltage:	800 VDC
Rated Continuous Current:	4000 AMPS DC
Trip device:	Bi-Directional, No Under Voltage Trip
Rated Momentary Current:	173 ka
Rated Peak Current:	200 ka
Rated Short time Current:	80 ka
Rated Short circuit Current:	200 ka
Control Voltage:	125 VDC

Width:	24" Style
Serial #:	A4269A

PO Bid Submission shall include specifications, electrical wiring diagrams, and catalog cut-sheets for the units specified in the bid documents, inclusive of detailed parts list

Reference Drawings: Breaker diagram CPC drawings: 4386-D33, 4386-D306, D-1055-1 are attached for design and development use. The technical data outlined above & CPC drawings listed in this paragraph are specific to assure the truck circuit breakers will fit into the existing switchgear and operate in a proper manner.

Shop drawings, Schematic and Technical Data: These documents must be submitted for approval prior to fabrication, factory testing and the final shipment. The submittal of these drawings will be in 10 calendar days after approved Purchase Order is issued. Approval of the these document will not release the Seller responsibility to provide circuit breakers that will function properly with the existing PATH Switchgear

DELIVERY:

The Vendor shall make delivery of all circuit breakers one-hundred and forty (140) days after the approval of the submitted drawings as described above. Deliver all in a vehicle, suitable for unloading with a lift-gate. Delivery hours will be limited to weekdays between the hours of 8:00 a.m. to 2:00 pm. 48 hours advance notification shall be given to Mr. Glen Smiley, telephone No (201) 216-6962. Shipping address is:

Port Authority Trans Hudson Corporation

120 Academy Street, Jersey City, NJ 07302

Attn: Glen Smiley

BID # Y3048

PURCHASE ORDER TERMS AND CONDITIONS

1. The Port Authority (Authority) reserves the right to request information relating to seller's responsibility, experience and capability to perform the work.

2. WARRANTY – The Seller warrants that the supplies or equipment delivered hereunder shall be free from all defects in material and workmanship and shall comply with all the requirements of this Order for a period of one (1) year from date such supplies or equipment are placed in use.

3. PAYMENT – The Total Delivered price shall include the separate unit and total FOB delivered prices. Payment terms are net 30 days. Cash discounts for prompt payment of invoices may be taken but will not be considered in determining award, except in the case of tie bids.

Unless otherwise provided, complete shipment of all items must be in one delivery FOB delivery point. Payment will not be made on partial deliveries unless authorized in advance by the party to be charged and the discount, if any, will be taken on the total order.

4. CHANGES – Acceptance of seller's offer will be only by Purchase Order Form signed by the Authority. The Authority may at any time, by a written order, make changes within the general scope of this Purchase Order, in any one or more of the following: (a) drawings, designs, or specifications; (b) method of shipment or packing; and (c) place of delivery. If any such change causes an increase or decrease in the cost of, or the time required for, performance of this Purchase Order, an equitable adjustment shall be made in the Purchase Order price or delivery schedule, or both, and the Purchase Order shall be modified in writing accordingly. Any claim by the Seller for adjustment under this section must be asserted within 30 days from the date of receipt by the Seller of a notification of change: provided, however, that nothing in this section, "CHANGES," shall excuse the Seller from proceeding with the Purchase Order as changed. Except as otherwise provided herein no payment for CHANGES shall be made, unless the Changes and adjustments in price, if any, have been authorized in writing by the Authority.

5. INSPECTION AND ACCEPTANCE – Inspection and acceptance will be conducted at the destination, unless otherwise provided. Any risk of loss will be the Seller's responsibility until such delivery and acceptance made, unless loss results from negligence of the Authority.

6. VARIATION IN QUANTITY – No variation in the quantity of any item called for by this Purchase Order will be accepted unless such variation has been caused by conditions of loading, shipping, or packing, or allowances in manufacturing processes, and then only to the extent, if any, specified elsewhere in this Purchase Order.

7. DEFAULT-DELAYS – The Authority may cancel this Purchase Order in whole or in part in the event that Seller fails or refuses to deliver any of the items purchased, within the time provided or otherwise violates any of the conditions of this Purchase Order, or if it becomes evident that the Seller is not conducting the work in accordance with the specifications or with such diligence as to permit delivery on or before the delivery date.
In the event the Authority cancels this Purchase Order in whole or in part as herein provided, the Authority may procure, upon such terms and in such manner as the Authority may deem appropriate, materials or services similar to those so cancelled and the Seller shall be liable to the Authority for any excess costs for such similar materials or services; provided, that the Seller shall continue the performance of this Purchase Order to the extent not terminated under the provisions of this article. The rights and remedies of the Authority provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this Purchase Order.

8. TERMINATION – The Authority may terminate this Purchase Order, in whole or in part, at any time by written notice to the Seller when it is in the Authority's best interest. The Seller shall be paid for items received and accepted, including shipping costs, if applicable, up to the time of termination. The Seller shall promptly submit its termination claim to the Authority to be paid to the seller.

9. FEDERAL, STATE & LOCAL TAXES – Sales to the Authority and to PATH are currently exempt from New York and New Jersey State and local taxes and generally from federal taxation. The Seller certifies that there is no federal, state, municipal or any other taxes included in the prices shown hereon.

10. The Authority shall have the absolute right to reject any or all proposals or to accept any proposal in whole or part and to waive defects in proposals. The Port Authority also reserves the right to seek clarification from any bidder about any statement in its bid that the Port Authority finds ambiguous.

11. Bidder may offer alternate manufacturer / brands, which shall be subject to Port Authority approval. Please indicate details of product being offered with bid.

12. If the Seller fails to perform in accordance with the terms of this Purchase Order, the Authority may obtain the

goods or services from another contractor and charge the Seller the difference in price, if any, a reletting cost of $100, plus any other damages to the Authority.

13. Upon request, Sellers are encouraged to extend the terms and conditions of any terms agreement with the Authority to other government and quasi-government entities by separate agreement.

14. By signing this quotation or bid, the Seller certifies to all statements on Form PA 3764A regarding non-collusive bidding; compliance with the Authority Code of Ethics; and the existence of investigations, indictments, convictions, suspensions, terminations, debarments and other stated occurrences to assist the Authority in determining whether there are integrity issues which would prevent award of the contract to the Seller.

The Authority has adopted a policy set forth in full on PA 3764, that it will honor a determination by an agency of the State of New York or New Jersey that a bidder is not eligible to bid on or be awarded public contracts because the bidder has been determined to have engaged in illegal or dishonest conduct or to have violated prevailing wage legislation. The Terms and Conditions of PA 3764A apply to this order. A copy can be obtained by calling (201) 395-3405 or at http://www.panynj.gov/business-opportunities/pdf/PA3764A.pdf

15. The vendor may subcontract the services or use a supplier for the furnishing of materials required hereunder to such persons or entities as the Manager, Purchasing Services may from time to time expressly approve in writing. All further subcontracting shall also be subject to such approval.

16. The successful bidder (vendor) shall not issue nor permit to be issued any press release, advertisement, or literature of any kind, which refers to the Port Authority or that goods will be, are being or have been provided to it and/or that services will be, are being or have been performed for it in connection with this Agreement, unless the vendor first obtains the written approval of the Port Authority. Such approval may be withheld if for any reason the Port Authority believes that the publication of such information would be harmful to the public interest or is in any way undesirable.

17. PERSONAL NON-LIABILITY – Neither the Commissioners of the Port Authority nor any of them, nor any officer, agent or employee thereof, shall be charged personally by Contractor with any liability, or held personally liable to Contractor under any term or provision of this Contract, or because of its execution or attempted execution, or because of any breach, or attempted or alleged breach, thereof.

18. ADDITIONAL BIDDER INFORMATION
Prospective Bidders are advised that additional vendor information, including but not limited to, forms, documents and other information, including protest procedures, may be found on the Port Authority website at: http://www.panynj.gov/business-opportunities/become-vendor.html

19. Disadvantaged Business Enterprises (DBE) Program

This Contract resulting from this Bid is subject to the United States Department of Transportation regulations on Disadvantaged Business Enterprises (DBE's) contained in Part 26 of Title 49 of the Code of Federal Regulations. The following goal for DBE participation has been set for this Contract:

The Disadvantaged Business Enterprise (DBE) participation goal for this contract is 0% .This goal applies to firms owned and controlled by disadvantaged individuals[1] and certified as DBE's by the Authority. Eligible DBE firms are listed on the following Uniform Certification Programs website:

New York UCP – http://www.nysucp.net/

New Jersey UCP – http://www.njucp.net/

Although a 0% DBE goal has been assigned to this Contract, in the event that any portion of the work is subcontracted, the Bidder/Contractor will make concerted efforts to retain DBEs should any subcontracting opportunities arise.

By bidding on this Contract, the bidder assures the Authority that it will meet the foregoing goal and shall submit the DBE Goals Statement form (Appendix A1) with his Proposal.

The bidder shall submit with his Proposal the DBE Participation Plan and Affirmation Statement (Appendix A2) for each DBE firm he intends to use on this Contract. The DBE Participation Plan and Affirmation Statement shall provide the name and address of each DBE firm, a description of the work to be performed, the dollar value of

[1] Individuals who are rebuttably presumed to be socially and economically disadvantaged include women, Blacks, Hispanics, Native Americans, Asian-Pacific Americans, and Asian-Indian Americans. A bidder may meet the DBE goal by using any combination of disadvantaged businesses.

each DBE subcontract and the signature affirmation from each DBE firm participating in this Contract.

The bidder shall submit with his Bid the competed information on Solicited Firms form (Appendix A3) listing every firm that provided a quotation to the bidder for any subcontract to be performed under this Contract, whether or not the firms are DBE certified and whether or not the firms' quotes were included in the final Bid.

20. FEDERAL TRANSIT ADMINISTRATION REQUIREMENTS (for purchase orders in excess of $3,000) – The attached cited Federal Acquisition Regulation clauses shall be incorporated herein.

BID # 43048

FEDERAL TRANSIT ADMINISTRATION REQUIREMENTS

1. INCORPORATION OF FEDERAL TERMS – As used herein, the term "Agreement" shall mean "Purchase Order". This Agreement is anticipated to be partially funded by the Federal Transit Administration.

Anything to the contrary herein notwithstanding, all FTA-mandated terms shall be deemed to control in the event of a conflict with other provisions contained in this Contract. The Contractor shall not perform any act, fail to perform any act, or refuse to comply with any Authority requests that would cause the Authority to be in violation of the FTA terms and conditions.

Each and every provision required by the FTA to be inserted in this Agreement shall be deemed to be inserted herein and the Contract shall be read and enforced as though it were included herein. If any provision of this Contract shall be such as to effect non-compliance with any FTA requirement, such provision shall not be deemed to form part hereof, but the balance of this Agreement shall remain in full force and effect.

2. FEDERAL CHANGES –The Contractor shall at all times comply with all applicable FTA regulations, policies, procedures and directives, including without limitation those listed directly or by reference, as they may be amended or promulgated from time to time during the term of this Contract. Contractor's failure to so comply shall constitute a material breach of this Contract. The most recent Federal laws, regulations, policies, and administrative practices apply to this Contract at any particular time, unless FTA issues a written determination otherwise. All standards or limits within the this document are minimum requirements, unless modified by the FTA.

3. NO FEDERAL OBLIGATIONS TO THIRD PARTY – The Authority and the Contractor acknowledge and agree that, notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this Contract and shall not be subject to any obligations or liabilities to the Authority, Contractor, or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying contract.
The Contractor agrees to include the above clause in each subcontract financed in whole or in part with Federal Assistance provided by the FTA. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

4. ORGANIZATIONAL CONFLICT OF INTEREST

A. This Contract may give rise to a potential for an organizational conflict of interest. An organizational conflict of interest exists when the nature of the work to be performed under the contract may, without some form of restriction on future activities; result in an unfair competitive advantage to the Contractor.

(i) The Contractor shall have access to confidential and/or sensitive Authority information in the course of contract performance. Additionally, the Contractor may be provided access to proprietary information obtained from other contracted entities during contract performance. The Contractor agrees to protect all such information from disclosure unless so authorized, in writing, by the Authority and to refrain from using such information for any purpose other than that for which it was furnished.

(ii) To the extent that the Contractor either (a) uses confidential and/or sensitive Authority information or proprietary information obtained from other Authority contractors to develop any form of document, report, or plan that is determined by the Authority to be the basis, in whole or in part, of any subsequent solicitation issued by the Authority or (b) develops written specifications that are used in any subsequent solicitation issued by the Authority, the Contractor agrees that it shall not be eligible to compete for such subsequent solicitation(s) as a prime or principal contractor or as part of any teaming arrangement unless the Authority provides, in writing, a specific waiver of this restriction. The duration of any restriction imposed under this subparagraph shall not exceed the length of the initial performance period of any subsequently awarded contract for which the Contractor was ineligible to compete.

B. The Contractor, by submitting its bid or proposal, agrees to the above stated conditions and terms and further agrees to perform all duties under the contract and, in doing so, not to enter into contractual agreements with Authority prime contractors and first-tier subcontractors in such a way as to create an organizational conflict of interest.
C. If the Authority determines that the Contractor has violated any term of this numbered clause, the Authority may take any appropriate action available under the law or regulations to obtain redress to include, but not be limited to, requiring the Contractor to terminate any affiliation or contractual arrangement with an Authority prime contractor or first-tier subcontractor at no cost to the Authority; determining the Contractor ineligible to compete for or be awarded any subsequent or "follow-on" contracts that may be based upon the Contractor's actions under this Contract or violations of this numbered clause, or terminating this Contract, in whole or in part.

4. ACCESS TO RECORDS AND REPORTS
The Contractor agrees to provide the Authority, the FTA Administrator, the Comptroller General of the United States or any of their authorized representatives access to and the right to examine and inspect any books, documents, papers and records of the Contractor which are directly pertinent to this Contract for the purposes of making audits, examinations, excerpts and transcriptions. The Contractor also agrees, pursuant to 49 CFR 633.15 to provide the FTA Administrator or his authorized representatives including any PMO Contractor access to the Contractor's records and construction sites pertaining to the project.

The Contractor shall make available records related to the contract to the Authority, the Secretary of Transportation and the Comptroller General or any authorized officer or employee of any of them for the purposes of conducting an audit and inspection.

The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

The Contractor agrees to maintain all books, records, accounts and reports required under this Contract for a period of not less than three (3) years after final payment is made by the Authority and all other pending matters are closed, except in the event of litigation or settlement of claims arising from the performance of this Contract, in which case the Contractor agrees to maintain same until the Authority, the FTA Administrator, the Comptroller General, or any of their duly authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto.

This requirement is independent of the Authority's requirements for record retention contained elsewhere in the contract documents.

5. CIVIL RIGHTS

A. Nondiscrimination - In accordance with Title VI of the Civil Rights Act, as amended, 42 U.S.C. § 2000d, section 303 of the Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6102, and section 202 of the Americans with Disabilities Act of 1990, 42 U.S.C. § 12132, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, age, or disability. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.

B. Equal Employment Opportunity - The following equal employment opportunity requirements apply to the underlying contract:

1. Race, Color, Creed, National Origin, Sex - In accordance with Title VII of the Civil Rights Act, as amended, 42 U.S.C. § 2000e, and Federal transit laws at 49 U.S.C. § 5332, the Contractor agrees to comply with all applicable equal employment opportunity requirements of U.S. Department of Labor (U.S. DOL) regulations, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 C.F.R. Parts 60 *et seq.*, (which implement Executive Order No. 11246, "Equal Employment Opportunity," as amended by Executive Order No. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," 42 U.S.C. § 2000e note), and with any applicable Federal statutes, executive orders, regulations, and Federal policies that may in the future affect construction activities undertaken in the course of the Project. The Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, national origin, sex, or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

2. Age - In accordance with section 4 of the Age Discrimination in Employment Act of 1967, as amended, 29 U.S.C. § 623, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

3. Disabilities - In accordance with section 102 of the Americans with Disabilities Act, as amended, 42 U.S.C. § 12112, the Contractor agrees that it will comply with the requirements of U.S. Equal Employment Opportunity Commission, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 C.F.R. Part 1630, pertaining to employment of persons with disabilities. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

C. The Contractor also agrees to include these requirements in each subcontract related to this project, modified only if necessary to identify the affected parties.

6. CARGO PREFERENCE – USE OF UNITED STATES FLAG VESSELS – If this Contract involves equipment, materials, or commodities that may be transported by ocean vessels, the Contractor herein agrees:

a. To utilize privately owned United States-flag commercial vessels to ship at least fifty percent (50%) of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this Contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

b. To furnish within twenty (20) days following the date of loading for shipments originating within the United States or within thirty (30) working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, "on-board" commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (1) above to the FTA Administrator and grantee (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20230.

c. To include these requirements in all subcontracts issued pursuant to this Contract when the subcontract may involve the transport of equipment, material, or commodities by ocean vessel.

7. ENERGY CONSERVATION – The Contractor agrees to comply with the mandatory energy efficiency standards and policies within the applicable State energy conservation plans issued in compliance with the Energy Policy and Conservation Act, 42 U.S.C. §6321 et seq. The Contractor also agrees to ensure that all work performed under this Contract including work performed by a Subcontractor is in compliance with the requirements of this Section.

8. FLY AMERICA – .The Contractor agrees to comply with 49 U.S.C. 40118 (the "Fly America" Act) in accordance with the General Services Administration's regulations at 41 CFR Part

301-10, which provide that subrecipients of Federal funds and their contractors are required to use U.S. Flag air carriers for U.S Government-financed international air travel and transportation of their personal effects or property, to the extent such service is available, unless travel by foreign air carrier is a matter of necessity, as defined by the Fly America Act. The Contractor shall submit, if a foreign air carrier was used, an appropriate certification or memorandum adequately explaining why service by a U.S. flag air carrier was not available or why it was necessary to use a foreign air carrier and shall, in any event, provide a certificate of compliance with the Fly America requirements. The Contractor agrees to include the requirements of this section in all subcontracts that may involve international air transportation.

9. PREFERENCE FOR RECYCLED PRODUCTS – The Contractor agrees to comply with all the requirements of Section 6002 of the Resource Conservation and Recover Act (RCRA), as amended (42 U.S.C. 6962), including but not limited to the regulatory provisions of 40 CFR Part 247, and Executive Order 12873, as they apply to the procurement of the items designated in Subpart B of 40 CFR Part 247. The Contractor also agrees to include the requirements of this Clause in all subcontracts exceeding $10,000 for items designated by the Environmental Protection Agency (EPA) and issued pursuant to this Contract.

10. Energy Conversation
The Contractor agrees to comply with the mandatory energy efficiency standards and policies within the applicable State energy conservation plans issued in compliance with the Energy Policy and Conservation Act, 42 U.S.C. §6321 et seq and the National Environmental Policy Act, 42 U.S.C. §4321 et seq. Accordingly, the Contractor agrees that the construction of any new building, or any addition, alteration or renovation of any existing building which materially increases the heating or cooling requirements for the building will comply with mandatory standards and policies relating to energy efficiency which are contained in 42 USC §6321 et seq., Article 11 of the New York State Energy Law and in Parts 7810 to7815 of Title 9, Subtitle BB of the New York Codes, Rules and Regulations. The Contractor also agrees to ensure that all work performed under this Contract including work performed by a Subcontractor is in compliance with the requirements of this Section.

11. PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMETNS OR RELATED ACTS
A. The Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 U.S.C. § 3801 *et seq.* and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 CFR Part 31, apply to its actions pertaining to this Project. The Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to be made, pertaining to the contract or project. In addition to other penalties that may be applicable, the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor to the extent the Federal Government deems appropriate.
B. The Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under this Contract, financed in whole or in part with Federal assistance, the Federal Government reserves the right to impose the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5307(n)(1) on the Contractor, to the extent the Federal Government deems appropriate.
C. The Contractor agrees to include the above two clauses in each subcontract related to this Contract. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.

12. CERTIFICATION, DEBARMENT AND SUSPENSION – This contract is a covered transaction for purposes of 2 cfr parts 180 and 1200. As such, the contractor is required to verify that none of the contractor, its principals, as defined at 2 cfr 180.995, or affiliates, as defined at 2 cfr 180.905, are excluded or disqualified as defined at 2 cfr 180.935 and 180.940. The Contractor is required to comply with 2 CFR 180, Subpart C and must include the requirement to comply with 2 CFR 180, Subpart C in any lower tier covered transaction it enters into.

By signing and submitting its bid, the bidder certifies as follows: The certification in this clause is a material representation of fact relied upon by the Port Authority of New York and New Jersey. If it is later determined that the bidder knowingly rendered an erroneous certification, in addition to remedies available to the Port Authority of New York and New Jersey, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The bidder agrees to comply with the requirements of 2 CFR 180, Subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder further agrees to include a provision requiring such compliance in its lower tier covered transactions.

13. VETERANS EMPLOYMENT
Contractors working on a capital project funded using such assistance agrees to give a hiring preference, to the extent practicable, to veterans (as defined in 5 U.S.C. 2108) who have the requisite skills and abilities to perform the construction work required under the contract. This subsection shall not be understood, construed or enforced in any manner that would require an employer to give a preference to any veteran over any equally qualified applicant who is a member of any racial or ethnic minority, female, an individual with a disability, or a former employee. The Contractor shall ensure that its hiring practices reflect the requirements of this section and shall, upon request, provide to the Authority personnel data which reflects compliance with the terms contained herein.

14. ADA ACCESS REQUIREMENTS - Facilities to be used in public transportation service must comply with 42 U.S.C. Sections 12101 et seq. and DOT regulations, "Transportation Services for Individuals with Disabilities (ADA)," 49 CFR Part 37; and Joint ATBCB/DOT regulations, "Americans with Disabilities (ADA) Accessibility Specifications for Transportation Vehicles," 36 CFR Part 1192 and 49 CFR Part 38.

Bid # 43048

THE PORT AUTHORITY OF NY & NJ

APPENDIX A1: DBE GOALS STATEMENT **PA 3752A/ 1 15**

The undersigned Bidder has satisfied the requirements of the Contract in the following manner (Complete the appropriate spaces and check one box):

☐ The Bidder is committed to meeting the DBE goal set forth in this Contract.

OR

☐ The Bidder is unable to meet the DBE goal set forth in this Contract, but is committed to a minimum of _____% DBE utilization on this Contract and submits the attached narrative and documentation demonstrating good faith efforts consistent with Appendix A of 49 CFR 26 to meet the DBE utilization goal set forth in this Contract. Attach as many pages as necessary to provide a full and complete narrative and supporting documentation of good faith efforts made. This narrative shall be submitted on company letterhead and signed.

It is the present intent of the Bidder to utilize the specific DBE firms identified in Appendix A2 in the performance of the Work under this Contract. If for any reason, one or more of the DBE firms identified in Appendix A2 are unable or unwilling to participate, the Bidder will make good faith efforts to replace the DBE firm with another DBE firm in accordance with the Information For Bidders clause entitled "Disadvantaged Business Enterprise Program (DBE)".

I _____ (print name), an officer of _____ (company name), certify that I have read the Appendix A1 – DBE Goals Statement and the information contained in it is true. I fully understand that any false statement within this submittal may prevent the company and/or the undersigned from being found to be responsible bidders/proposers in connection with future agreements. In addition, any false statement within this submittal may subject the company and/or the undersigned to criminal charges in the state and federal courts of New York and New Jersey.

Signature _____ Title _____ Date _____

Officer must have ACKNOWLEDGEMENT BY NOTARY PUBLIC completed on the reverse side.

BID# 43018
V

ACKNOWLEDGEMENT BY NOTARY PUBLIC

APPENDIX A1 - DBE GOALS STATEMENT (reverse)

ACKNOWLEDGEMENT
of

STATE OF _____)
S.S.:
COUNTY OF _____)

On this _____ day of _____, before me personally came and appeared _____to be known, who being by me duly sworn, did depose and say that he/she resides at _____ , that he/she is the _____ of _____company, that the seal affixed to said Certification is such corporate seal, that it was so affixed by order of the directors of said corporation, and that he/she signed his/her name thereto by like order.

(Notary's Seal or Stamp)

_____
Notary Public
My commission expires:

Appendix A2: DBE PARTICIPATION PLAN AND AFFIRMATION STATEMENT — PA 3752B/ 01-15

Instructions: Submit one DBE PARTICIPATION PLAN AND AFFIRMATION STATEMENT form for each DBE firm used on this Contract.

CONTRACT NUMBER AND TITLE: _____

BIDDER:
Name of Firm: _____

Address: _____ Telephone: _____

Email Address: _____

DBE:
Name of Firm: _____

Address: _____ Telephone: _____

Description of work to be performed by DBE: _____

Calculation (supply only): _____

The Bidder is committed to utilizing the above-named DBE for the work described above. The estimated dollar value of this work is $_____
or
____% of the total contract amount of $_____. The anticipated start date is _____ and the anticipated completion date is _____

AFFIRMATION

The above-named DBE affirms that it will perform the portion of the Contract for the estimated dollar value as stated above.

By: _____ Date: _____
Signature of Principal or Officer of DBE and Name and Title

If the Bidder does not receive award of the Contract, any and all representations in this DBE Participation Plan and Affirmation Statement shall be null and void.

I _____ (print name), an officer of _____ (company name), certify that I have read the Appendix A2 – DBE Participation Plan and Affirmation Statement and the information contained in it is true. I fully understand that any false statement within this submittal may prevent the company and/or the undersigned from being found to be responsible bidders/proposers in connection with future agreements. In addition, any false statement within this submittal may subject the company and/or the undersigned to criminal charges in the state and federal courts of New York and New Jersey.

Signature _____ Title _____ Date _____

Please Note: Only 60% of the expenditure to a DBE material supplier will be counted toward the DBE goal. Please show calculation above. Example: $100,000 x 60% = $60,000 estimated DBE dollar value of work. Plan cannot be accepted without calculation.

Officer must have ACKNOWLEDGEMENT BY NOTARY PUBLIC completed on the reverse side.

BID # 53018

ACKNOWLEDGEMENT BY NOTARY PUBLIC

APPENDIX A2
DBE PARTICIPATION PLAN AND AFFIRMATION STATEMENT (reverse)

ACKNOWLEDGEMENT
of

STATE OF _____)
S.S.:
COUNTY OF _____)

On this _____ day of _____, before me personally came and appeared _____to be known, who being by me duly sworn, did depose and say that he/she resides at _____ , that he/she is the _____ of _____company, that the seal affixed to said Certification is such corporate seal, that it was so affixed by order of the directors of said corporation, and that he/she signed his/her name thereto by like order.

(Notary's Seal or Stamp)

_____
Notary Public
My commission expires:

BID #43648

APPENDIX A3: INFORMATION ON SOLICITED FIRMS

PA 3752C / 1-15

The bidder must complete this form for itself and for all firms which gave the bidder a quotation for any work planned to be subcontracted regardless of whether they are ultimately chosen to participate in the Contract. Provide the information required below for every firm that provided a bid or a quote for a subcontract – even if the bid or quote from the firm is not used in the preparation of the final Proposal.

Name of Firm	Address of Firm	Phone Number	Contact Person	Firm Age	Annual Gross Revenue Range NOTE: See Footnote Below	DBE Certified (Yes/No)

Footnote: Annual Gross Revenue Ranges: Less than $500,000; $500,000 - $1 Million; $1 - $2 Million; $2 - $5 Million; Over $5 Million - Select the category that best identifies the annual gross revenue of the solicited firm.

Officer must have ACKNOWLEDGEMENT BY NOTARY PUBLIC completed on the reverse side.

Bid # 43078

ACKNOWLEDGEMENT BY NOTARY PUBLIC

APPENDIX A3
INFORMATION ON SOLICITED FIRMS (reverse)

ACKNOWLEDGEMENT
of

STATE OF _____)
S.S.:
COUNTY OF _____)

On this _____ day of _____, before me personally came and appeared _____to be known, who being by me duly sworn, did depose and say that he/she resides at _____ , that he/she is the _____ of _____company, that the seal affixed to said Certification is such corporate seal, that it was so affixed by order of the directors of said corporation, and that he/she signed his/her name thereto by like order.

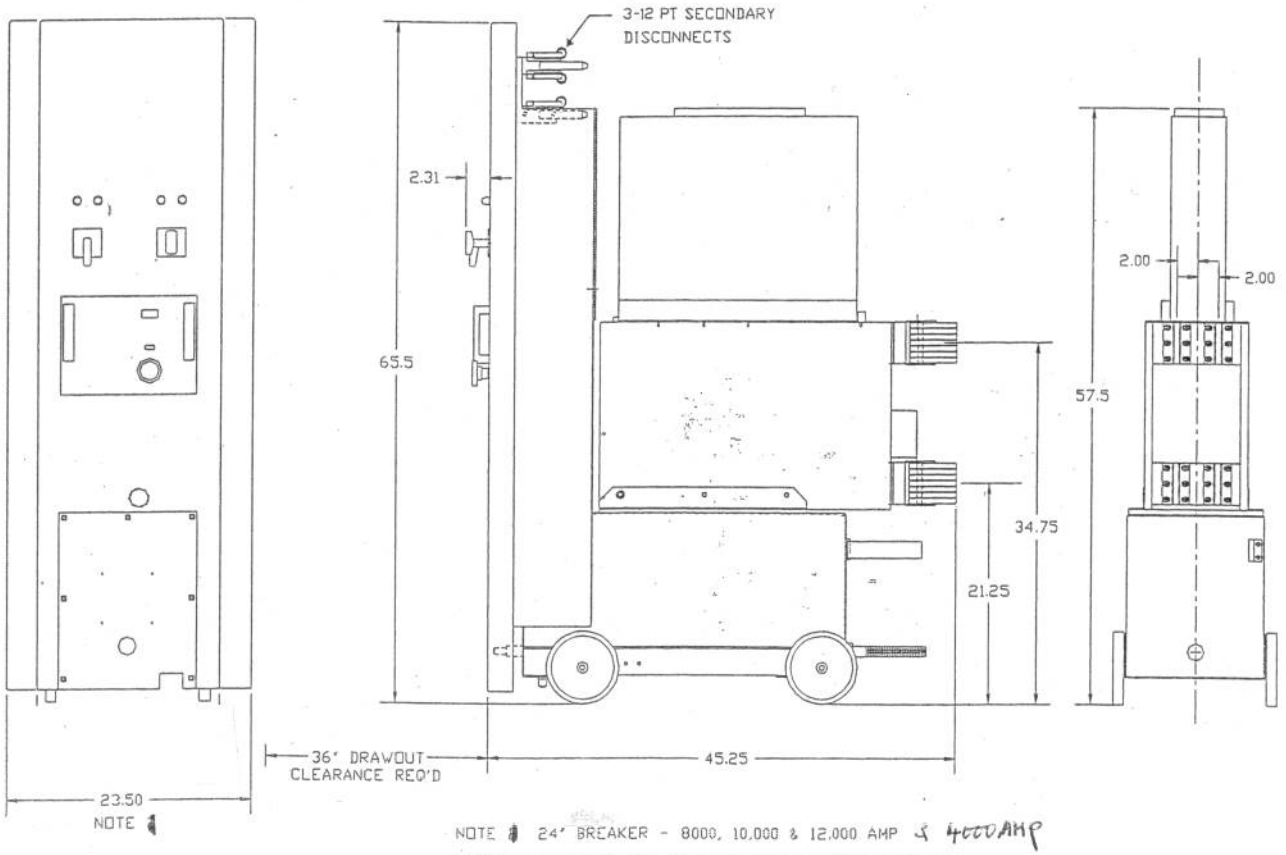
(Notary's Seal or Stamp)

_____
Notary Public
My commission expires:

B.D # 43078

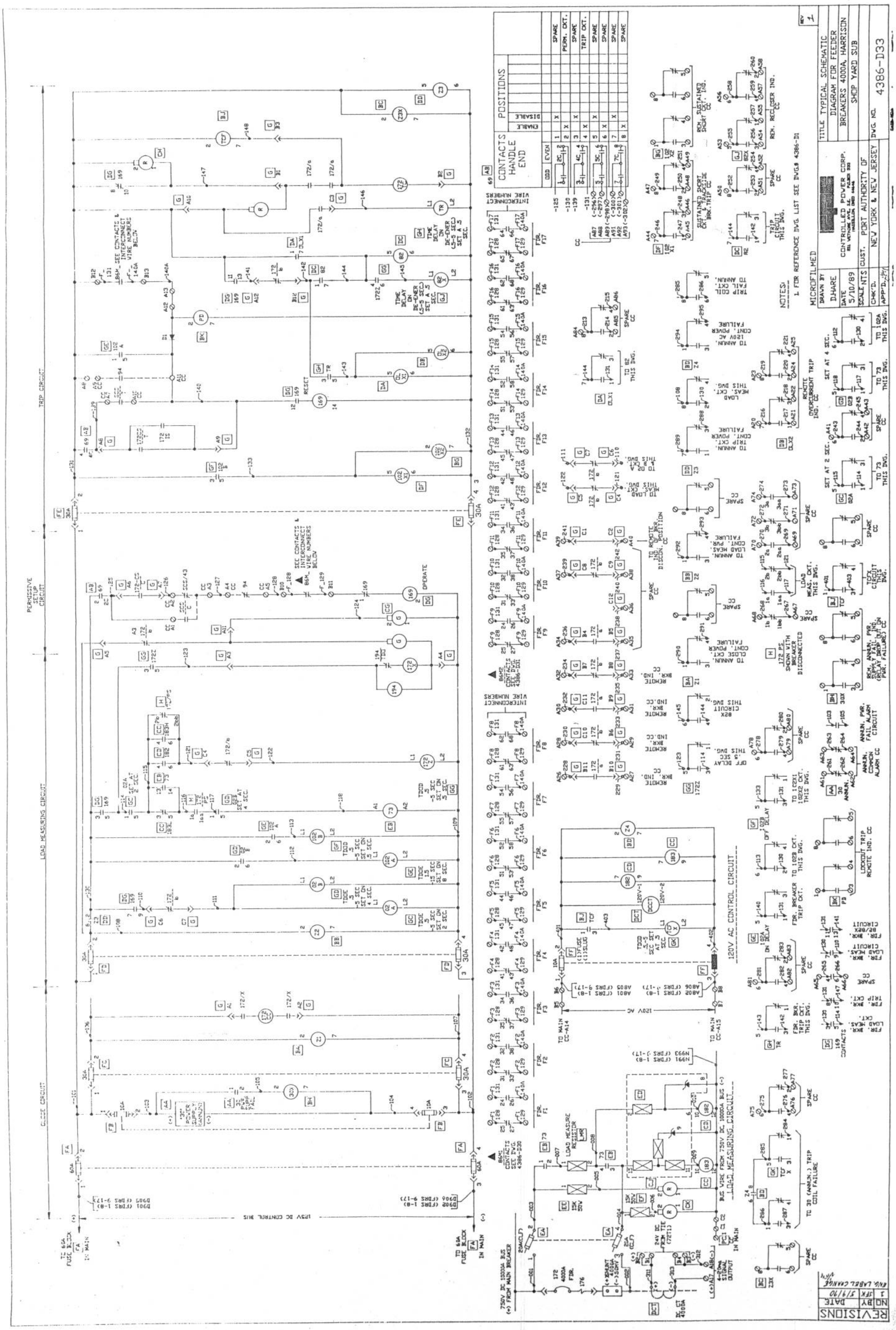
HSN Circuit Breaker Dimensions:

Dimensions shown in inches

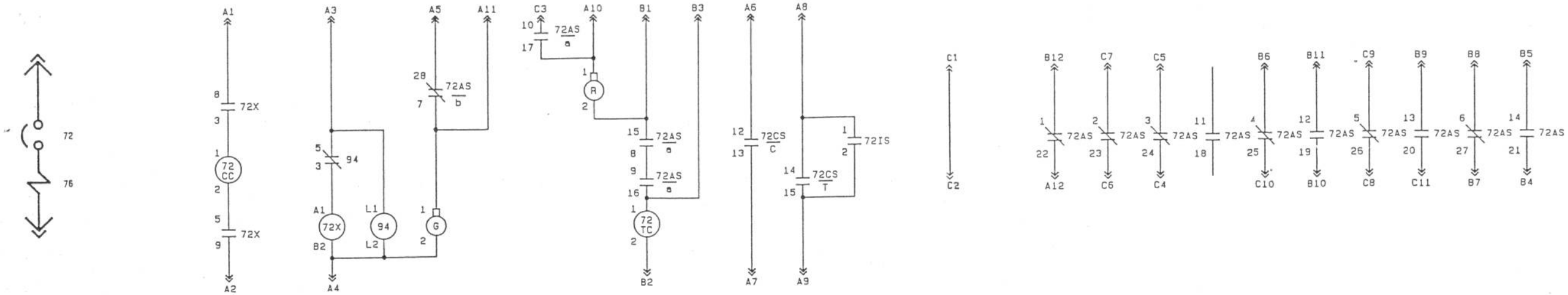


NOTE 1 24" BREAKER - 8000, 10,000 & 12,000 AMP & 4000AMP

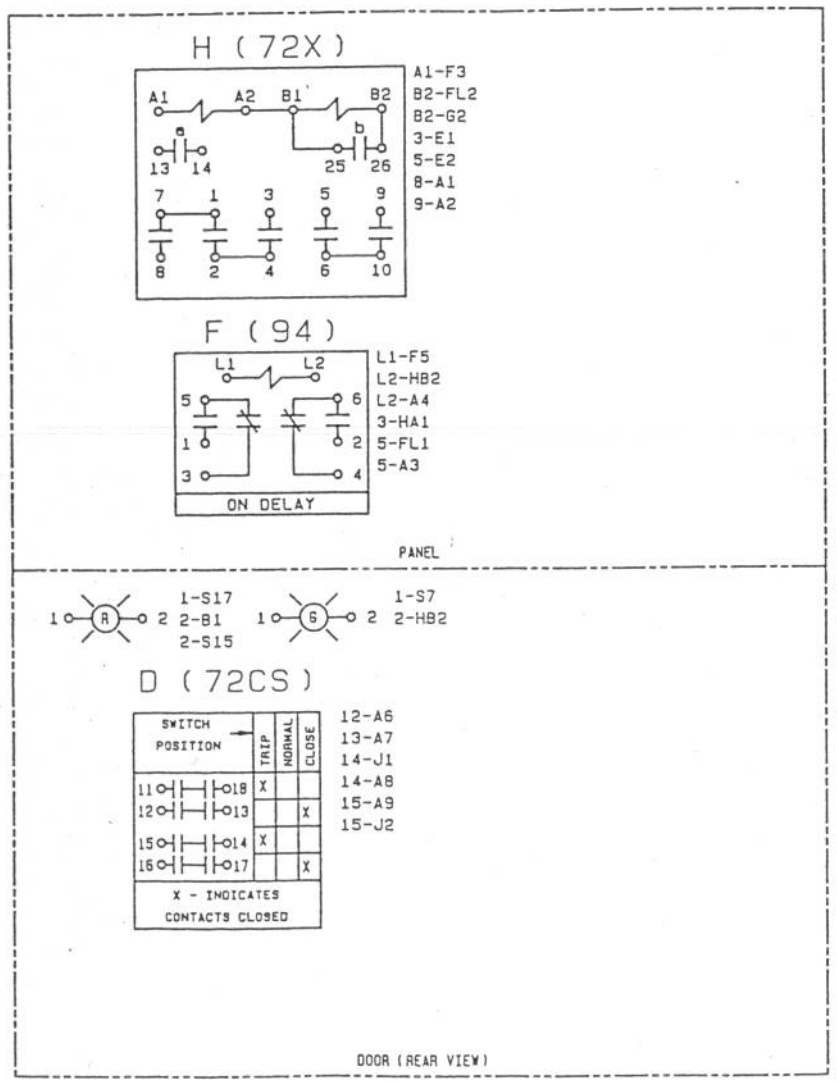
DIMENSIONS SHOWN ARE NOT TO BE UTILIZED FOR DESIGN


TRIP CIRCUIT
PERMISSIVE SETUP CIRCUIT
LOAD MEASURING CIRCUIT
CLOSE CIRCUIT
120V AC CONTROL CIRCUIT
LOAD MEASURING CIRCUIT
CONTACTS HANDLE END
POSITIONS
ENABLE
DISABLE
SPARE
PERM. CKT.
TRIP CKT.
TITLE TYPICAL SCHEMATIC
DIAGRAM FOR FEEDER
BREAKERS 4000A, HARRISON
SHOP YARD SUB
CUST. PORT AUTHORITY OF
NEW YORK & NEW JERSEY
DWG. NO. 4386-D33
MICROFILMED
DRAWN BY DJHARE
DATE 5/10/89
SCALE NTS
CONTROLLED POWER CORP.
NOTES:
1 FOR REFERENCE DWG. LIST SEE DWG# 4386-D1
REVISIONS
NO BY DATE
1 JFK 5/9/90

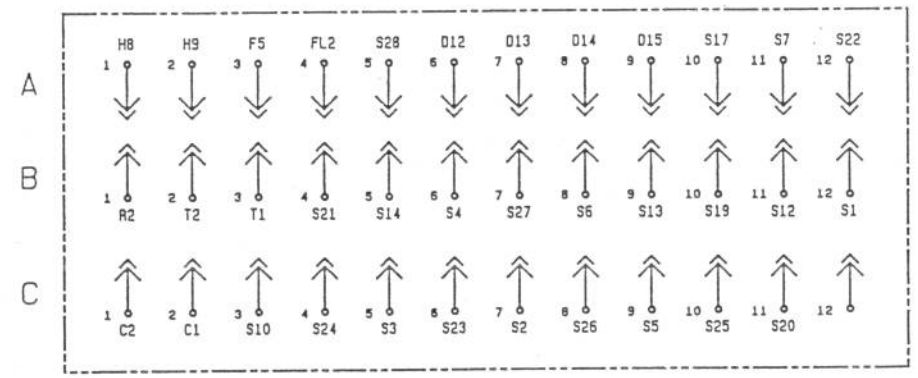
SCHEMATIC



CONNECTION DIAGRAM

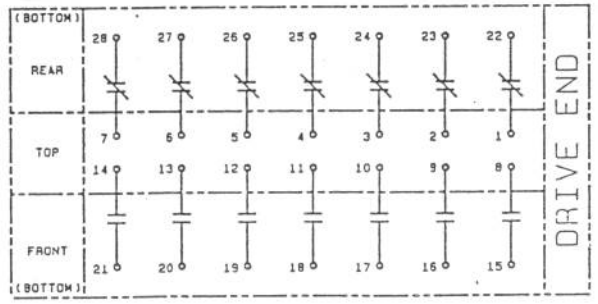


SECONDARY DISCONNECT

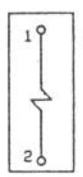


S (72AS)

	TOP	BOTTOM
FRONT	8-S9	15-R2
	9-S8	16-T1
	10-C3	17-A10,R1
	11-	18-
	12-B11	19-B10
	13-B9	20-C11
	14-B5	21-B4
REAR	1-B12	22-A12
	2-C7	23-C6
	3-C5	24-C4
	4-B6	25-C10
	5-C9	26-C8
	6-B8	27-B7
	7-A11,G1	28-A5

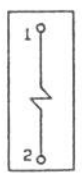


E (72CC)



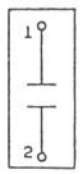
1-H3
2-H5

T (72TC)



1-B3
1-S16
2-B2

J (72IS)



1-D14
2-D15

LEGEND

72 - TYPE HSN D.C. HIGH SPEED CIRCUIT BREAKER
72AS - AUXILIARY SWITCH
72CC - CLOSING SOLENOID
72CS - CONTROL SWITCH
72IS - MANUAL TRIP AUX. SWITCH
72TC - SHUNT TRIP
72X - CLOSING CONTACTOR
76 - DIRECT ACTING OVERLOAD
94 - ANTI-PUMP TIMER
G - GREEN INDICATING LIGHT
R - RED INDICATING LIGHT

BID #43048
Page 3 of 4

MICROFILMED

REV 0

REVISIONS		
NO	BY	DATE
0	DLS	10/10/88

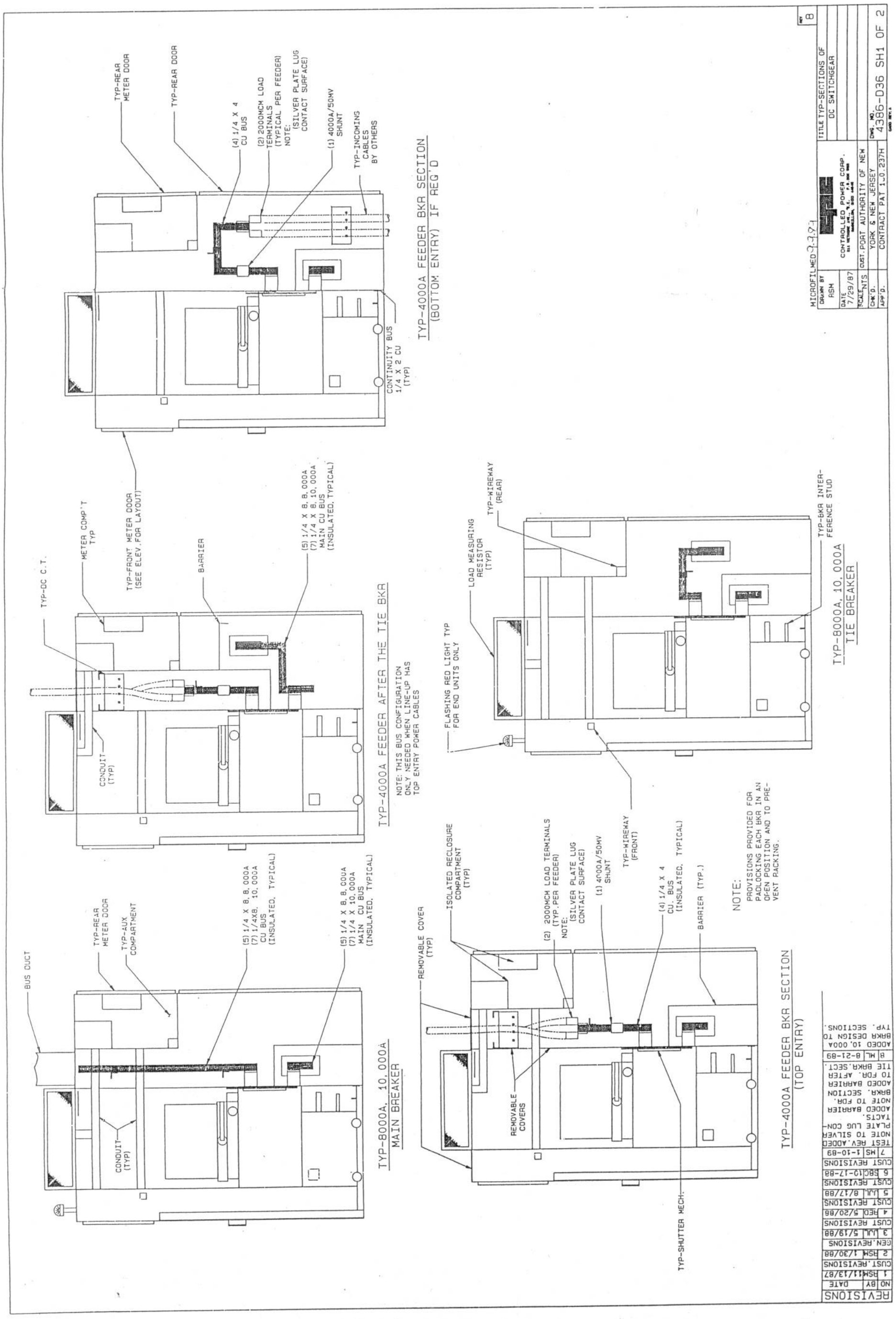
DRAWN BY DLS
DATE 10/10/88
SCALE NTS
CHK'D. JR
APP'D. JR

CONTROLLED POWER CORP.

CUST. CPC (4383-4387)/PATH

TITLE SCHEMATIC & CONNECTION DIAGRAM
TYPE HSN
D.C. TRUCK CKT. BREAKER
MAIN, TIE, & FEEDER BKRS.

DWG. NO. D-1055-1


TYP-REAR METER DOOR
TYP-REAR DOOR
(4) 1/4 X 4 CU BUS
(2) 2000MCM LOAD TERMINALS (TYPICAL PER FEEDER) NOTE: (SILVER PLATE LUG CONTACT SURFACE)
(1) 4000A/50MV SHUNT
TYP-INCOMING CABLES BY OTHERS
CONTINUITY BUS 1/4 X 2 CU (TYP)
TYP-4000A FEEDER BKR SECTION (BOTTOM ENTRY) IF REQ'D
TYP-DC C.T.
METER COMP'T TYP
TYP-FRONT METER DOOR (SEE ELEV. FOR LAYOUT)
BARRIER
(5) 1/4 X 8, 000A (7) 1/4 X 8, 10, 000A MAIN CU BUS (INSULATED, TYPICAL)
CONDUIT (TYP)
TYP-4000A FEEDER AFTER THE TIE BKR
NOTE: THIS BUS CONFIGURATION ONLY NEEDED WHEN LINE-UP HAS TOP ENTRY POWER CABLES
LOAD MEASURING RESISTOR (TYP)
TYP-WIREWAY (REAR)
TYP-BKR INTER-FERENCE STUD
FLASHING RED LIGHT TYP FOR END UNITS ONLY
TYP-8000A, 10, 000A TIE BREAKER
TYP-WIREWAY (FRONT)
BUS DUCT
TYP-REAR METER DOOR
TYP-AUX COMPARTMENT
(5) 1/4 X 8, 000A (7) 1/4X8, 10, 000A CU BUS (INSULATED, TYPICAL)
(5) 1/4 X 8, 000A (7) 1/4 X 10, 000A MAIN CU BUS (INSULATED, TYPICAL)
CONDUIT (TYP)
TYP-8000A, 10, 000A MAIN BREAKER
REMOVABLE COVER (TYP)
ISOLATED RECLOSURE COMPARTMENT (TYP)
(2) 2000MCM LOAD TERMINALS (TYP. PER FEEDER) NOTE: (SILVER PLATE LUG CONTACT SURFACE)
(1) 4000A/50MV SHUNT
(4) 1/4 X 4 CU. BUS (INSULATED, TYPICAL)
BARRIER (TYP.)
NOTE: PROVISIONS PROVIDED FOR PADLOCKING EACH BKR IN AN OPEN POSITION AND TO PREVENT PACKING.
REMOVABLE COVERS
TYP-SHUTTER MECH.
TYP-4000A FEEDER BKR SECTION (TOP ENTRY)
MICROFILMED 9-7-91
DRAWN BY ASM
DATE 7/29/87
SCALE NTS
CHK'D.
APP'D.
CONTROLLED POWER CORP.
CUST. PORT AUTHORITY OF NEW YORK & NEW JERSEY
CONTRACT PAT 1.0.237H
TITLE TYP-SECTIONS OF DC SWITCHGEAR
DWG. NO. 4386-D36 SH1 OF 2
REVISIONS
NO BY DATE
1 RSM 11/13/87 CUST.REVISIONS
2 RSM 1/30/88 GEN.REVISIONS
3 JJL 5/19/88 CUST REVISIONS
4 REO 5/20/88 CUST REVISIONS
5 JJL 8/17/88 CUST REVISIONS
6 SBC 10-17-88 CUST REVISIONS
7 MS 1-10-89 TEST REV.ADDED NOTE TO SILVER PLATE LUG CONTACTS. ADDED BARRIER NOTE TO FOR. BKR. SECTION ADDED BARRIER TO FOR. AFTER TIE BKR.SECT.
8 ML 8-21-89 ADDED 10,000A BKR DESIGN TO TYP. SECTIONS.