



February 28, 2024

RESPONSE LETTER NO. 1 TO REQUEST FOR INFORMATION

Project Title: **Metrorail 3rd Rail Isolation Disconnect Switch Replacement**
Project No.: **IRP338-DTPW23-CT**

Email from Mrs. Harry McClane, from Hypower- Electrical Construction; on February 26, 2024, at 4:50 PM (Email Attached).

QUESTION No.1: Several switchgear vendors have stated that there is not enough information to be able to price the new switches and PLC's Will there be any drawings provided for this bid other than the diagrams in addendum 1.

ANSWER No.1: See attached diagrams. The specs for the PLCs are in the contract.

QUESTION No.2: The specifications indicate that the new disconnects and other equipment need to be compatible with existing equipment. Is it possible to get any as-built drawings or information on the existing equipment we need to be compatible with?

ANSWER No.2: See attached diagrams herein.

QUESTION No.3: Is there a specific routing of the new fiber conduits?

ANSWER No.3: No, there is not a specific routing of the new fiber conduits.

QUESTION No.4: Is there a specific routing of the new fiber conduits?

ANSWER No.4: No, there is not a specific routing of the new fiber conduits.

QUESTION No.5: Is there a minimum depth the new fiber conduits have to be other than per code?

ANSWER No.5: As per code.

QUESTION No.6: What size and type of cables need to be installed for the (6) new disconnects at the North & South ends of the storage tracks?

ANSWER No.6 750 KCM, 2000 Volts, Transit Cable.

QUESTION No.7: Is there a specific routing for the new Control and indication wires from the new Disconnect Switches at Government Center to the communications room located on the fourth floor of the Government Center Building?

ANSWER No.7 No, there is not a specific routing for the new Control and indication wires from the new Disconnect Switches at Government Center to the communications room located on the fourth floor of the Government Center Building.

QUESTION No.8: Are there any working restrictions for working inside the Government Center Building? (off-hours, noise control, x-ray of existing floor slabs, special access requirements, etc.)

ANSWER No.8 Off-Hours.

QUESTION No.9: Who will be doing the SCADA programming?

ANSWER No.9 Contractor is responsible for this.

QUESTION No.10: If the existing cables are over 5-years old, it is recommended to use a VLF test instead of Hi-pot. Please confirm Hi-pot is the method you want for the existing cables.

ANSWER No.10 Hi-Pot test is preferred.

END OF REQUEST FOR INFORMATION No. 1

Sincerely,



Alfredo E. Muñoz, P.E.
Chief, Capital Improvements Division
Department of Transportation and Public Works (DTPW)

AM:jbp

cc:

Jean Bernard Philippeaux, DTPW	Katherine Fernandez, DTPW
Eric Perez, SBD	Ian Pereira, DTPW
Laurie Johnson, SBD	Scott Nicoll, DTPW
Clerk of the Board	

Philippeaux, Jean Bernard (DTPW)

From: Harry McClane <HMcClane@HYPOWERINC.COM>
Sent: Monday, February 26, 2024 4:50 PM
To: Philippeaux, Jean Bernard (DTPW); Fernandez, Katherine (DTPW); Clerk of the Board (COC)
Subject: RP338-DTPW23-CT (RFI)

EMAIL RECEIVED FROM EXTERNAL SOURCE

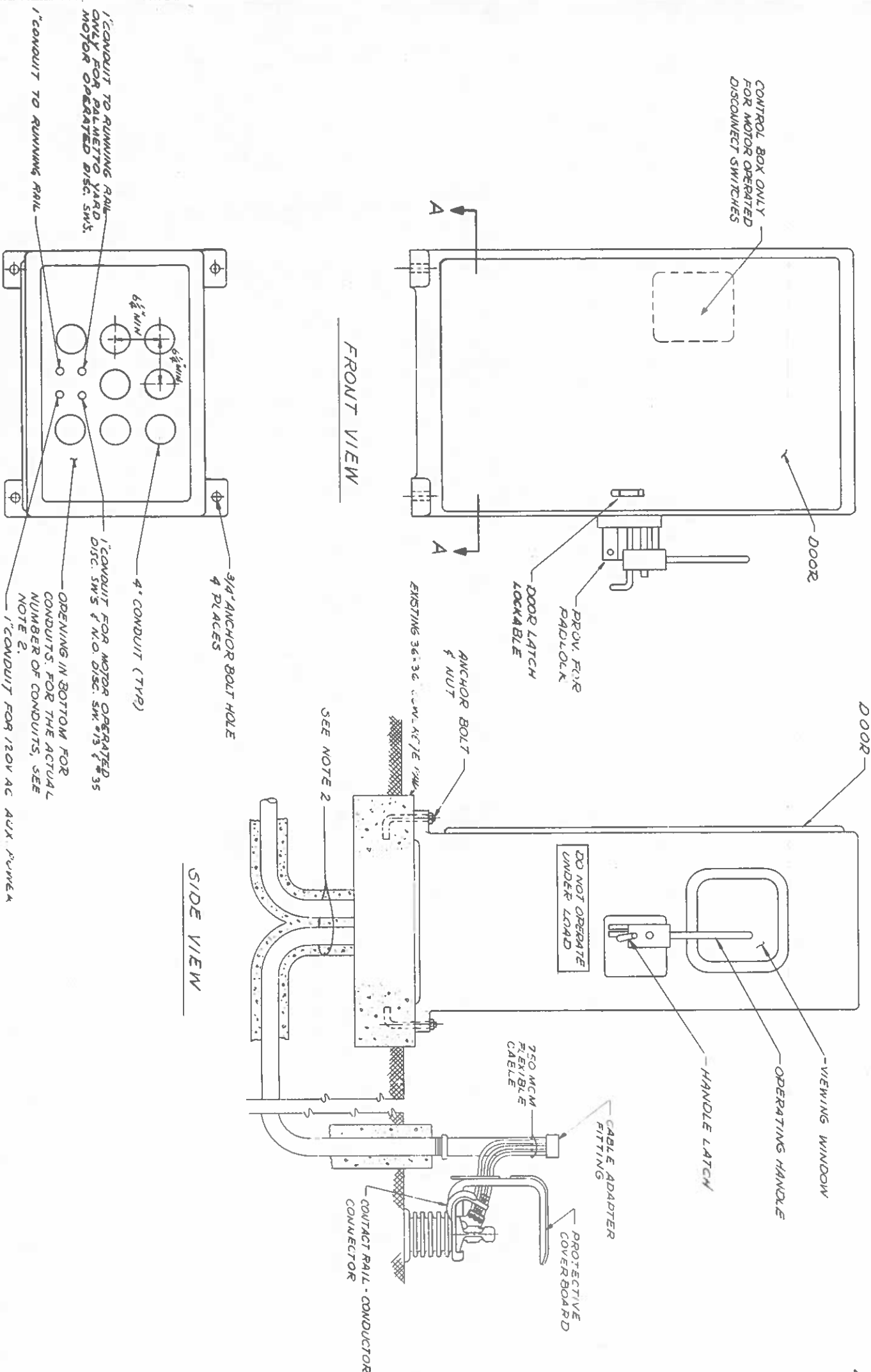
Hello,

We would like to ask the following questions and requests for information:

1. Several switchgear vendors have stated that there is not enough information to be able to price the new switches and PLC's Will there be any drawings provided for this bid other than the diagrams in addendum 1?
2. The specifications indicate that the new disconnects and other equipment need to be compatible with existing equipment. Is it possible to get any as-built drawings or information on the existing equipment we need to be compatible with?
3. Is there a specific routing of the new fiber conduits?
4. Do the new fiber conduits need to be concrete encased, or will direct bury \ directional boring be sufficient?
5. Is there a minimum depth the new fiber conduits have to be other than per code?
6. What size and type of cables need to be installed for the (6) new disconnects at the North & South ends of the storage tracks?
7. Is there a specific routing for the new Control and indication wires from the new Disconnect Switches at Government Center to the communications room located on the fourth floor of the Government Center Building?
8. Are there any working restrictions for working inside the Government Center Building? (off-hours, noise control, x-ray of existing floor slabs, special access requirements, etc.)
9. Who will be doing the SCADA programming?
10. If the existing cables are over 5-years old, it is recommended to use a VLF test instead of Hi-pot. Please confirm Hi-pot is the method you want for the existing cables.

Thanks,

Harry McClane | Chief Estimator
Hypower– Electrical Construction
Direct: 954-917-1419
Cell: 954-809-1814



SECTION A-A

NOTES:

- 1 THE MOTOR OPERATED DISCONNECT SWITCH ENCLOSURE LAYOUT IS SIMILAR TO THE MANUALLY OPERATED DISCONNECT SWITCH ENCLOSURE, AS SHOWN ON THIS DRAWING, EXCEPT THE MANUAL OPERATING HANDLE OUTSIDE OF THE ENCLOSURE IS NOT PROVIDED.
 - 2 1000 VOLT DC DISCONNECT SWITCH RATINGS.
 - 3 THE DC FEEDER CABLE, CONDUIT NUMBERS AND SIZES ARE AS FOLLOWS:
- | 1000 VOLT DC DISC. SWITCH RATINGS | CABLE AND ENTRY | CONDUIT | EXIT | TOTAL |
|-----------------------------------|------------------------|------------------------|------------------------|-------|
| 2000 A | 4-750 MCM IN 2-4" φ C | 4-750 MCM IN 2-4" φ C | 8-750 MCM IN 4-4" φ C | |
| 3000 A | 6-750 MCM IN 2-4" φ C | 6-750 MCM IN 2-4" φ C | 12-750 MCM IN 4-4" φ C | |
| 4000 A | 8-750 MCM IN 3-4" φ C | 8-750 MCM IN 3-4" φ C | 16-750 MCM IN 6-4" φ C | |
| 6000 A | 12-750 MCM IN 4-4" φ C | 12-750 MCM IN 4-4" φ C | 24-750 MCM IN 8-4" φ C | |
- 4 THE CONTRACTOR SHALL FURNISH THE EXACT DIMENSION OF THE ENCLOSURE.
 - 5 FOR ADDITIONAL INFORMATION REFER TO DRAWING NOS. TP 108, TP 109, TP 153 TO TP 158 & TP 522.
 - 6 THE ENCLOSURE FOR 1000 VOLT DC DISCONNECT SWITCH SHALL BE WEATHERPROOF OUTDOOR, FREE-STANDING, AND FABRICATED OF ONE PIECE FIBERGLASS.

DESIGNED BY	G. T. ...
CHECKED BY	...
DATE	...
ISSUED FOR	ISSUED FOR BUILDING
NO.	
DATE	
BY	
APP.	
REVISIONS	

Dade County Transportation Improvement Program

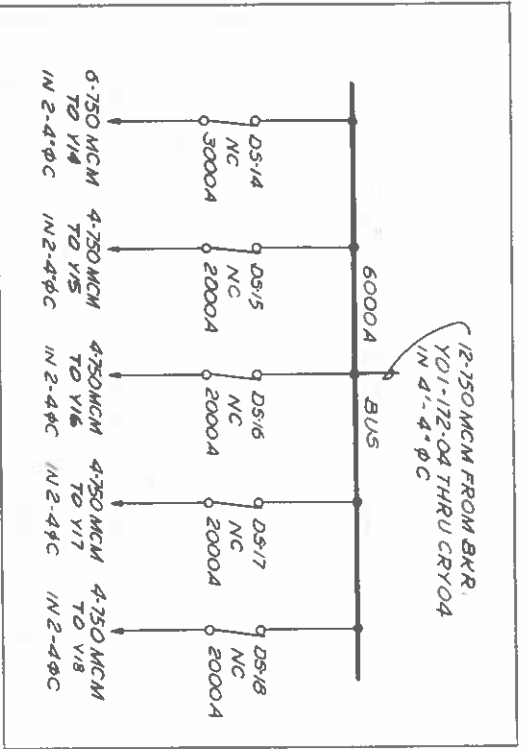
THE KAISER TRANSIT GROUP a joint venture

THE KAISER TRANSIT GROUP a joint venture
 KAISER ENGINEERS
 DIVISION OF HENRY J. KAISER COMPANY
 HENRY WIEBE & ASSOCIATES LTD.

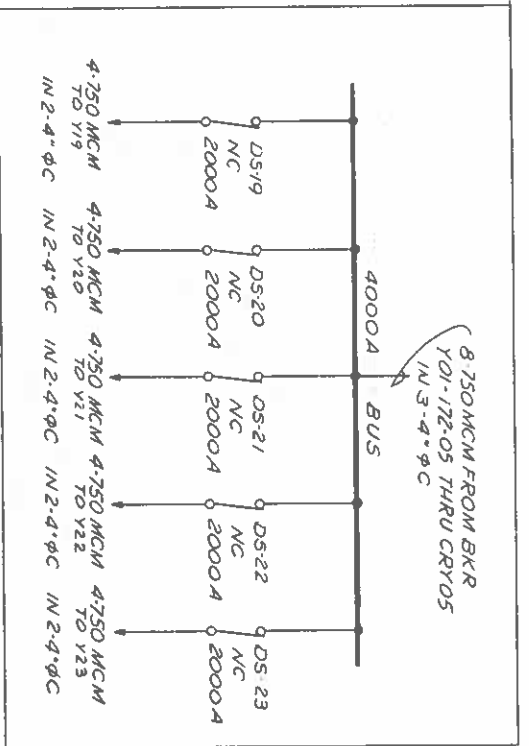
POST, BUCKLEY, SCHULZ & JEROME, INC.
 CARM SMITH AND ASSOCIATES, INC.
 SCHWELLEN COMMERCE ASSOCIATES

TRACTION POWER EQUIPMENT INSTALLATION
 ELECTRIFICATION SYSTEM
 TYPICAL 1000 VOLT DC DISCONNECT SWITCH
 ENCLOSURE LAYOUT

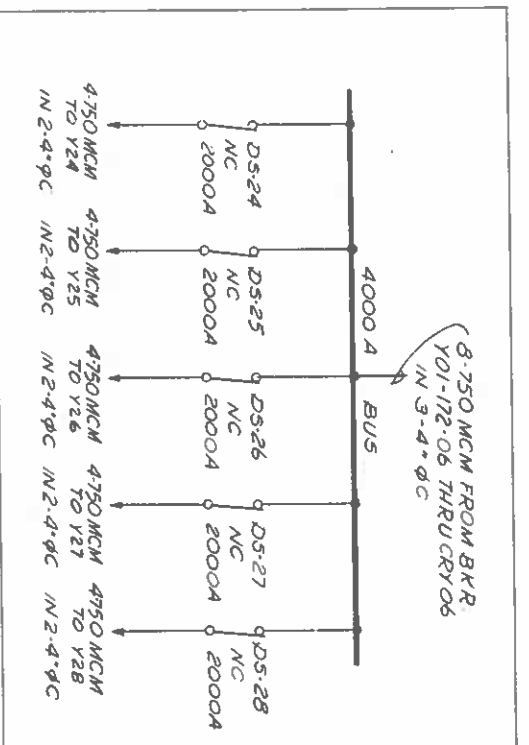
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Y691-367	



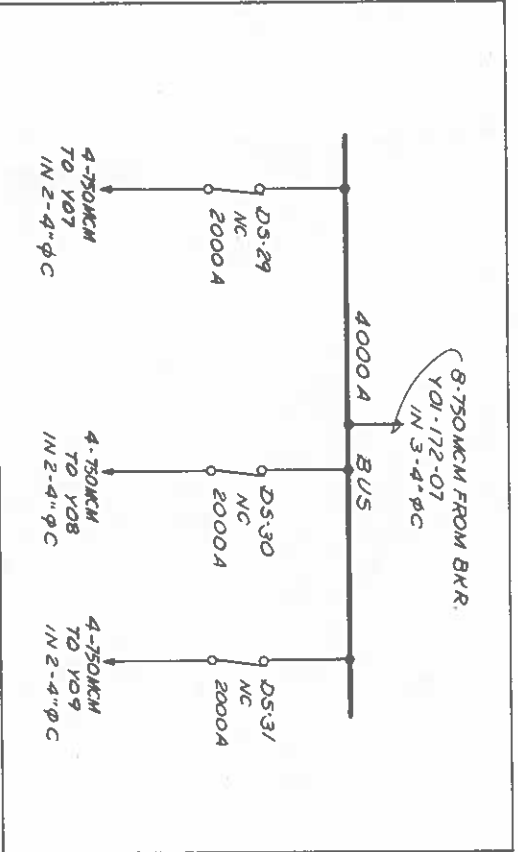
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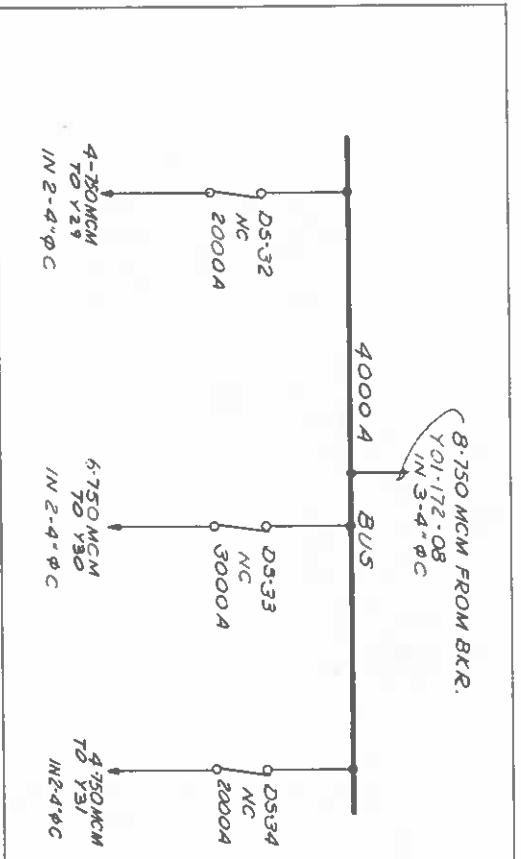
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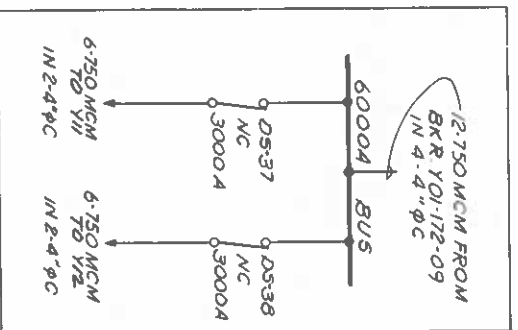
Y01 - DSC 3



Y01 - DSC 4



Y01 - DSC 5



Y01 - DSC 6

NOTES:

1. THE CONTRACTOR SHALL FURNISH THE EXACT DIMENSIONS OF THE 1000V DC DISCONNECT SWITCH CABINETS.
2. THE CABINETS FOR 1000V DC DISCONNECT SWITCHES SHALL BE WEATHERPROOF OUTDOOR, FREE STANDING AND FABRICATED OF ONE PIECE FIBERGLASS.
3. THE CONTRACTOR SHALL DESIGN THE DETAILS OF THE 1000V DC DISCONNECT SWITCHES AND THE CABINETS.
4. THE DISCONNECT SWITCHES SHALL BE FRONT OPERATED TYPE WITH EXTERNALLY MOUNTED AND MANUALLY OPERATED HANDLE.

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 GEORGE W. BAKER & ASSOCIATES
 HARRY WEISE & ASSOCIATES LTD.

POST, BUCKLEY, SOHM & JENNIFER, INC.
 CARR SMITH AND ASSOCIATES, INC.
 SCHWELER, COMANDO ASSOCIATES

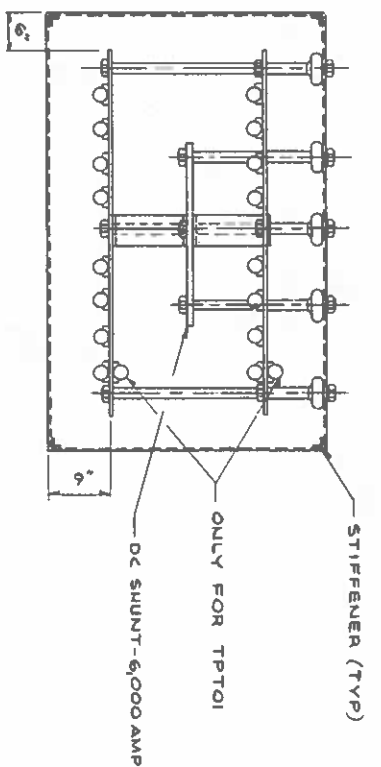
TRACTION POWER EQUIPMENT INSTALLATION
 PALMETTO YARD ELECTRIFICATION SYSTEM
 1000V DC DISCONNECT SWITCH
 CABINET LAYOUTS

DESIGNED BY	DATE		
CHECKED BY	DATE		
APPROVED BY	DATE		
ISSUED FOR BIDDING	REVISIONS		
NO.	DATE	BY	APP.

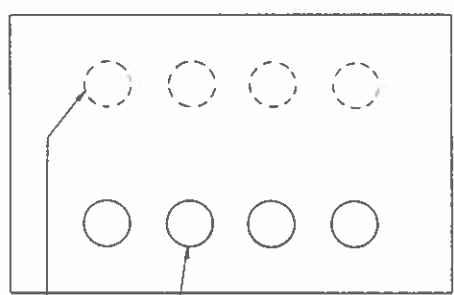
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Y	691-368

12.28.80

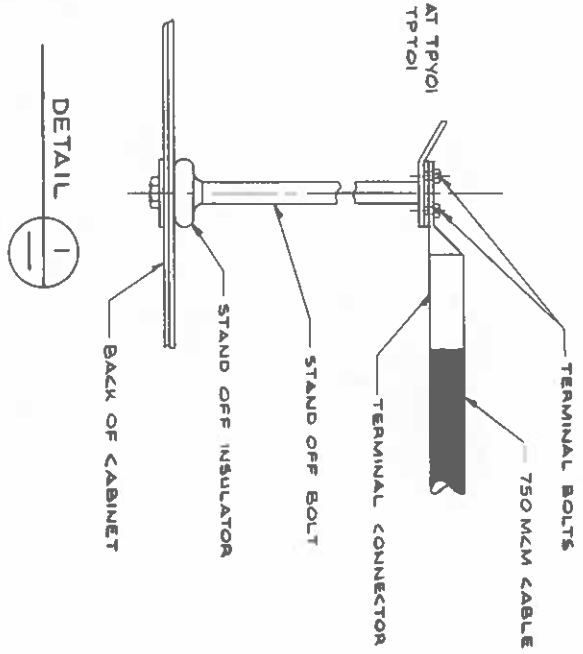
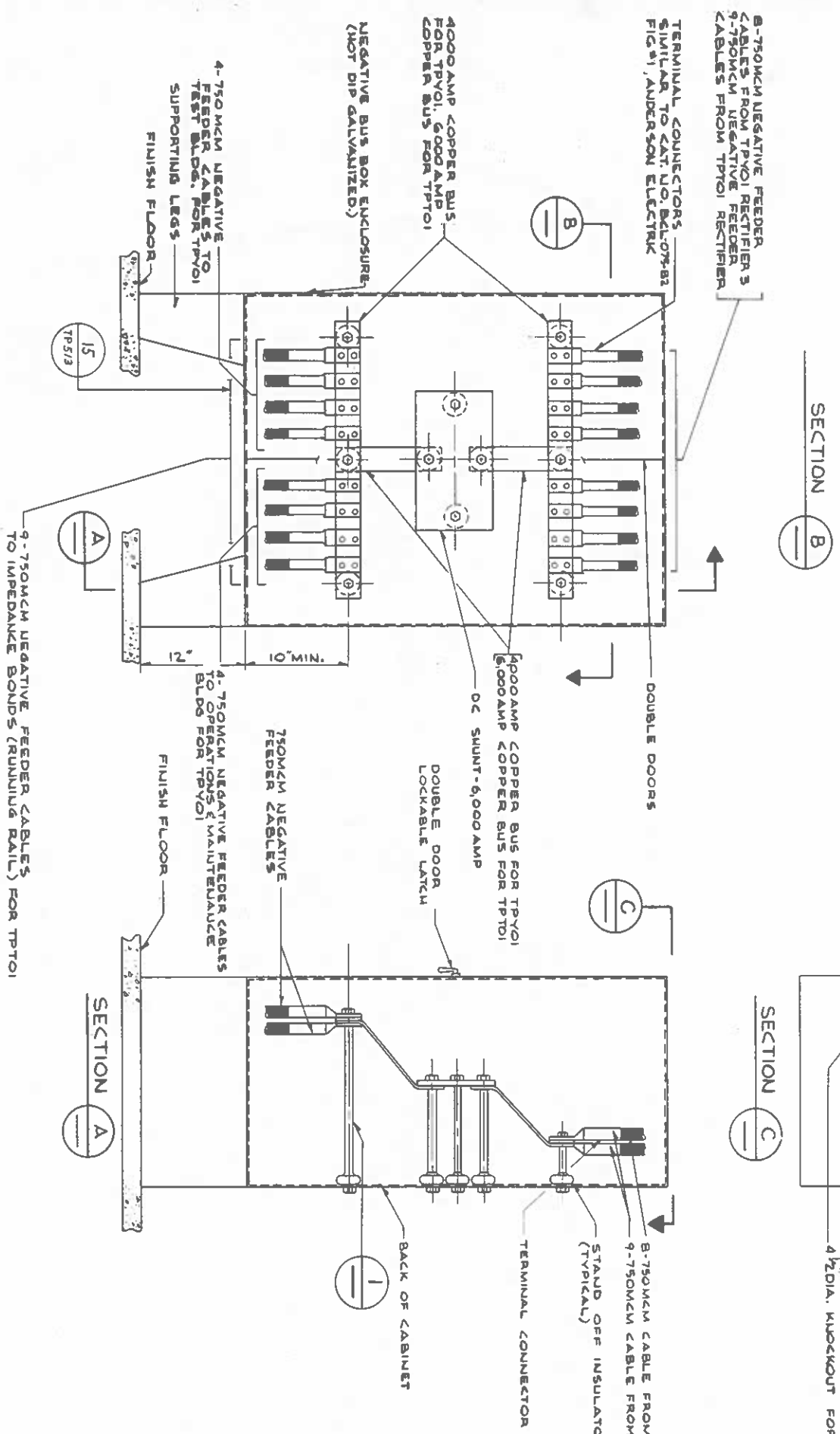
12.85



SECTION B



SECTION C



DETAIL

- NOTES:**
1. THE CONTRACTOR SHALL FURNISH THE EXACT DIMENSIONS OF THE NEGATIVE BUS BOX.
 2. THE CONTRACTOR SHALL DESIGN THE DETAILS OF THE BUS BAR, BUS BAR JOINT SHUNT INSULATORS, ENCLOSURE AND TERMINAL CONNECTOR.
 3. THE CONTRACTOR SHALL MAKE PROVISION FOR CONNECTING 4/0 CU. DRAINAGE CABLE FOR THE FUTURE. VERIFY WITH THE ENGINEER.
 4. THIS NEGATIVE BUS BOX APPLIES ONLY TO THE PALMETTO YARD SUBSTATION RECTIFIER 3 (TPYOI) AND TO THE TEST TRACK SUBSTATION RECTIFIER (TPTOI).

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 KAISER ENGINEERS
 DIVISION OF HEWITT & LEAVER COMPANY
 HARRY WEESE & ASSOCIATES LTD.
 PORT, BICKLEY, SCHWAB, JERONAK INC.
 CLARK SMITH AND ASSOCIATES, INC.
 SCHWABERLEIN COMMADINO ASSOCIATES

TRACTION POWER EQUIPMENT INSTALLATION
 NEGATIVE BUS BOX
 FOR PALMETTO YARD SUBSTATION RECTIFIER 3
 AND TEST TRACK SUBSTATION

DESIGNED BY <i>C. Taylor</i>	DATE 12-12-79			
CHECKED BY <i>M. Skala</i>	DATE 4-12-80			
APPROVED BY <i>002244</i>	DATE 12/17/79			
NO.	DATE	BY	APP.	REVISIONS
				ISSUED FOR BIDDING

DATE 12-16-80

DATE 7-14-79

SCALE NOT TO SCALE DRAWING TP523-0 Y691 369