

Serial Number: RFP-FQ15093/GG
Date of Issue: April 16, 2015
Proposal Due Date: July 24, 2015

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
600 FIFTH STREET, N.W.
WASHINGTON, D.C. 20001

May 28, 2015

AMENDMENT NO. 1
TO
REQUEST FOR PROPOSALS
FOR
REHABILITATION OF RED LINE METRO RAIL SYSTEM FROM FRIENDSHIP HEIGHTS CROSSOVER
TO GROSVENOR - STRATHMORE STATION
FQ15093/GG

TO WHOM IT MAY CONCERN:

The Request For Proposals for Proposal Documents accompanying RFP FQ15093/GG requesting Proposals for the above project are hereby changed in part as listed below.

1. Volume 1 – Division 0

Delete the following pages and in lieu thereof replace the accompanying pages:

<u>DELETE</u>	<u>REPLACE</u>	<u>DESCRIPTION</u>
00100-1	00100-1 AM1	Revised
00100-3	00100-3 AM1	Revised

2. Volume 1 – Division 1

Delete the following pages and in lieu thereof replace the accompanying pages:

<u>DELETE</u>	<u>REPLACE</u>	<u>DESCRIPTION</u>
01110-7	01110-7 AM1	Revised
01111-2	01111-2 AM1	Revised
01112-8	01112-8 AM1	Revised
01112-10	01112-10 AM1	Revised
01112-11	01112-11 AM1	Revised
01141-5	01141-5 AM1	Revised

3. Volume 2 – Divisions 2 through 16

Delete the following pages and in lieu thereof replace the accompanying pages:

<u>DELETE</u>	<u>REPLACE</u>	<u>DESCRIPTION</u>
03380-15	03380-15 AM1	Revised

N/A	A13-S-102	New
N/A	A13-S-165	New
N/A	A13-S-107	New
N/A	A13-S-108	New
N/A	A13-A-8	New
N/A	A13-A-9	New
N/A	A13-A-10	New
N/A	A13-A-11	New
N/A	A13-A-12	New
N/A	A13-A-13	New
N/A	A13-A-14	New

4. Acknowledgment

Proposers are required to acknowledge receipt of this Amendment on the Technical and Price proposal Forms (p.00412-1 and p.00413-1) in the space provided. Failure to acknowledge all Amendments may cause the Proposal to be considered not responsive to the RFP, which would require rejection of the Proposal.



Richard Owens
Contracting Officer

Enclosures

* * * * *

N/A	A13-S-102	New
N/A	A13-S-165	New
N/A	A13-S-107	New
N/A	A13-S-108	New
N/A	A13-A-8	New
N/A	A13-A-9	New
N/A	A13-A-10	New
N/A	A13-A-11	New
N/A	A13-A-12	New
N/A	A13-A-13	New
N/A	A13-A-14	New

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Richard Owens
Contracting Officer

Enclosures

* * * * *

SECTION 00100
REQUEST FOR PROPOSAL

This Section includes Project information for Proposers.

NOTICE TO PROPOSERS

Contract No. FQ15093/GG includes RFP Documents for:

Project Name: Rehabilitation of Red Line Metro Rail System from Friendship Heights Crossover to Grosvenor-Strathmore Station

Technical Proposals and Price Proposals for the Work described herein shall be submitted in an envelope by the Proposers so as to be received at the Office of Procurement, Washington Metropolitan Area Transit Authority, Office of Procurement, PRMT File Room 3C-02, 600 Fifth Street, N.W., Washington, D.C. 20001. Technical and Price Proposals shall be mailed in a timely fashion or hand delivered to reach WMATA before 3:00 PM (local time) on July 24, 2015. Questions may be directed to Guzel Gufranova at 202-962-5544 or at ggufranova@wmata.com. **AM1**

DIRECTIONS TO SUBMITTING PROPOSER: Read and comply with the Solicitation Instructions. In addition to other submission requirements set forth in this Request for Proposal and all Amendments, the following must be properly executed, completed, and submitted separately as part of the offer:

A. TECHNICAL PROPOSAL:

1. Technical Proposal Form (properly executed)¹, Section 00412
2. Technical Proposal (Refer to Technical Proposal evaluation factors listed in Section 00200, INSTRUCTIONS TO PROPOSERS)
3. Compliance/Exception Information, Section 00432
4. Brand Name or Equal Form, Section 00433

B. PRICE PROPOSAL:

1. Price Proposal Form (properly executed¹), Section 00413
2. Price Proposal Schedule, Section 00434
3. Proposal Guarantee, Section 00431, Proposal Security (Proposal Bond Form)
4. Proposal Data Form with Supporting Data, Section 00452
5. Representations and Certifications, Section 00451
6. DBE Data, Section 00453

PROPOSAL(S) MUST SET FORTH FULL, ACCURATE, AND COMPLETE INFORMATION AS REQUIRED BY THIS REQUEST FOR PROPOSAL, INCLUDING ALL AMENDMENTS

¹The separate sealed Technical and Price Proposal Forms must be marked with offer under Solicitation RFP No. FQ 15093/GG and with acknowledgement of all Amendments.

- 3. Technical and Price Proposal: July 24, 2015 **AM1**
- 4. Notice of Award: November 13, 2015 **AM1**
- 5. Notice to Proceed: December 10, 2015 **AM1**

END OF SECTION

Elements of Work	Option 1A Design	Option 1B Construction	Future Work (not in contract)
Escalator	Same as above	Platform cutout; foundation modification; restore platform to include access panel with paver tile finish, expansion joints, and sealant; framed opening at future mezzanine cutout; machine room; conduit for lighted balustrade.	Escalator trusses, steps, balustrades and equipment.
Stair	Same as above	Platform cutout; foundation; complete stair, facility below stair and finishes to include handrails; restore platform to include expansion joints, and sealant; temporary and secure enclosure to prevent mezzanine access.	
Mezzanine structure	Same as above	Mezzanine foundation, columns, beams, metal deck, structural concrete slab and passageway connection; support at station south end wall; precast parapet wall, precast column enclosures; restore platform to include expansion joints, and sealant.	Concrete topping slab and tiles above mezzanine metal deck and structural concrete slab; embedded conduits.
Architectural finishes, furniture, signage and graphics	Same as above	Components on the platform level; platform ceiling support and ceiling; components attached to the station vault.	All features on the mezzanine; public space in the entrance shaft west of temporary CMU wall.
Electrical distribution	Same as above	Restore platform level functions and new components constructed under this option; Power lighting supported from the station vault above new mezzanine.	Equipment and functions directly over mezzanine deck and west of the temporary CMU wall.
Lighting	Same as above	Below new mezzanine and supported from the station vault; Also provide temporary lighting during construction.	Lighting west of temporary CMU separation wall

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E. Key Designer Staff

1. Design Engineering Manager

- a. A registered Professional Engineer licensed to practice engineering in all jurisdictions where the Project will be constructed, shall have an undergraduate or graduate degree in engineering with a minimum of 15 years' experience in design and design management of complex multi-discipline projects in the transit industry.
- b. Responsible for managing design and design services during construction for all disciplines involved in the Project. The Design Engineering Manager shall assign Architect and Engineer(s) of Record for Project and shall establish and implement design milestone submittal schedules. The Design Engineering Manager is responsible to ensure that design of all project elements is done in accordance with Contract Documents, Industry Standards, and jurisdictional codes and regulations. The Design Engineering Manager responsibilities also include but are not limited to managing design sub-consultants that support the Designer, developing and implementing a Design Control Plan (DCP), and a Design Quality Plan (DQP) in carrying out design of Project elements and ensuring that sub-consultants do the same, coordinating with Jurisdictional Authorities and utility companies and ensuring that all design complies with applicable jurisdictional codes and standards, preparation and submittal of design milestone and Approved Final Design Drawings Issued for Construction and Approved Final Design Specifications Issued for Construction, preparation of Working Drawings, responding to and managing review comments from the Authority and other reviewers, and assisting the Construction Manager in obtaining permits, all in a timely manner without affecting Project schedule.
- c. Responsible for managing the preparation of As-Built Drawings and As-Built Specifications.

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2. Architect of Record

- a. A licensed Architect in the jurisdiction where the Project will be constructed, with an undergraduate or graduate degree in architecture, and with minimum of 15 years experience in design of complex multi-discipline projects of a similar type and financial magnitude in the transit industry.
- b. Responsible for signing and sealing Approved Final Design Drawings Issued for Construction and Approved Final Design Specification Issued for Construction .
- c. The Architect of Record shall be an active participant in all phases of the Project, including the construction phase, for the selection of materials, products and finishes for submittals, approval of samples and mock-ups, coordination of architectural work with structural, mechanical, electrical, and other disciplines, and regular Site visits to verify conformance with the approved design.

3. Engineers of Record

- a. Registered Professional Engineers licensed to practice in their respective disciplines in the jurisdiction where the Project will be constructed, with undergraduate or graduate degrees in engineering, and with minimum of 15 years experience in design of complex multi-discipline projects of a similar type and financial magnitude in the transit industry.
- b. Responsible for signing and sealing Approved Final Design Drawings Issued for Construction and Approved Final Design Specification Issued for Construction.
- c. Responsible to ensure that design within their disciplines is done in accordance with Contract Documents, Industry Standards, and jurisdictional codes and regulations. Responsibilities also include but are not limited to, implementing the Design Control Plan (DCP) and a Design Quality Plan (DQP), supporting the Design Engineering Manager in

- i. Material sample boards
 - j. N/A
 - k. Risk assessment documentation
 - l. Design schedule
 - m. Design survey field notes as applicable as specified in Section 01721, LAYOUT OF WORK AND FIELD ENGINEERING.
- E. Pre-final Design (90%) – Design Drawings, Design Specifications, calculations, and all associated design documents shall be completed to include the minimum requirements listed below:
1. Drawings: Drawings of all disciplines required for the completion of the Project. Drawings shall be essentially complete and shall include resolution of comments from Intermediate submittal.
 - a. Plan showing temporary and permanent Right-of-Way requirements
 - b. Plan and details of applicable survey control monuments, including list of control monuments that could be destroyed or disturbed during construction.
 - c. Civil: Completed stormwater management, paving and restoration plans as applicable.
 - d. Architectural: Completed plans, elevations and details.
 - e. Structural: Completed layout and sizing of structural members, including structural details.
 - f. Electrical: Completed plans showing lighting and equipment layout; layout of raceways, manholes, trenches and conduits for alternating current (A.C.) power; conduit and wire schedule showing number, type, size, routing and voltage; panelboard, transformer and circuit breaker schedules; stray current bonding and cathodic protection; cable support and equipment mounting details; provisions for circuit breakers to permit selective tripping; automatic lighting control.
 - g. Mechanical: Completed plans showing heating and ventilation, air-conditioning systems including control and air flow diagrams; complete equipment schedules; fire suppression, drainage and plumbing systems.
 2. Specifications: Specifications shall be essentially complete and shall include resolution of comments from Intermediate submittal, including Standard and Technical Specifications Sections edited for the Contract, and developed text for specifications generated by the Design-Builder.
 3. Design calculations for each discipline shall be essentially complete and shall include resolution of comments from Intermediate submittal.
 - a. Civil, Architectural and Structural: Calculations pertaining to sitework, station exiting, foundations and superstructure.
 - b. Electrical: Include assumptions and back-up data for illumination levels, voltage drop on feeders, summary of connected and demand load on each panelboard and feeder, sizing of all equipment, short circuit calculations, breaker coordination study of selective tripping, and resistance of grounding mat.
 - c. Mechanical: Include assumptions and back-up data covering heating and ventilation, air-conditioning systems, fire suppression system, exiting calculations and any other special systems. Include equipment selection with a minimum of three manufacturers listed,

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- h. N/A
- i. Risk assessment documentation
- j. Design schedule
- F. Final Design (100%) – Design Drawings, Design Specifications, calculations signed and sealed by Architect and Engineer of Record and all associated design documents shall be completed for submittal for jurisdictional permitting and approval process to include the minimum requirements listed below:
1. Drawings: Drawings of all disciplines required for the completion of the Project. Drawings shall be complete and shall include resolution of comments from Pre-final submittal.
 - a. Plan showing temporary and permanent Right-of-Way requirements
 - b. Plan and details of applicable survey control monuments, including list of control monuments that could be destroyed or disturbed during construction.
 - c. Civil: Completed stormwater management, paving and restoration plans as applicable.
 - d. Architectural: Completed plans, elevations and details.
 - e. Structural: Completed layout and sizing of structural members, including structural details.
 - f. Electrical: Completed plans showing lighting and equipment layout; layout of raceways, manholes, trenches and conduits for alternating current (A.C.) power; conduit and wire schedule showing number, type, size, routing and voltage; panelboard, transformer and circuit breaker schedules; stray current bonding and cathodic protection; cable support and equipment mounting details; provisions for circuit breakers to permit selective tripping; automatic lighting control.
 - g. Mechanical: Completed plans showing heating and ventilation, air-conditioning systems including control and air flow diagrams; complete equipment schedules; fire suppression, drainage and plumbing systems.
 2. Specifications: Specifications shall be complete and shall include resolution of comments from Pre-final submittal, including Standard and Technical Specifications Sections edited for the Contract, and developed text for specifications generated by the Design-Builder.
 3. Design calculations for each discipline shall be complete and shall include resolution of comments from Pre-final submittal.
 - a. Civil, Architectural and Structural: Calculations pertaining to sitework, station exiting, foundations and superstructure.
 - b. Electrical: Include assumptions and back-up data for illumination levels, voltage drop on feeders, summary of connected and demand load on each panelboard and feeder, sizing of all equipment, short circuit calculations, breaker coordination study of selective tripping, and resistance of grounding mat.
 - c. Mechanical: Include assumptions and back-up data covering heating and ventilation, air-conditioning systems, fire suppression system, exiting calculations and any other special systems. Include equipment selection with a minimum of three manufacturers listed, complete with model numbers and performance data, curves, dimensions, etc. Include verification that equipment will fit in space available and retain adequate accessibility for maintenance.
 4. Design Report including final documentation of:

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- a. Constructability and Construction Staging Plan
 - b. Utility and Structures Relocation/Protection/Support
 - c. Traffic Impact Assessment including constraints, maintenance plans, parking inventories, truck haul routes, and new/modified road systems
 - d. Handling and Disposal of Material
 - e. Supplemental Geotechnical Investigation
 - f. Supplemental Environmental Documentation
 - g. Systems Interface Management Plan
 - h. Identification of required permits and jurisdictional authority approvals
 - i. Actions that are required by others to enable construction to proceed on schedule, with particular attention to those items of construction indicated in the Contract Documents and Intermediate Design Drawings and Intermediate Design Specifications to be performed by others.
5. In addition, the Final Design submittal shall include:
- a. Written disposition of Pre-final submittal comments by the Design-Builder certifying that all previous comments from the Authority and its design professionals have been resolved and/or incorporated in the design
 - b. List of Final Design Drawings, Final Design Specifications and other material being submitted
 - c. Notification that any variations from Contract Document requirements presented in Pre-final submittal have been resolved and addressed in Final submittal, if applicable. Present as part of the Final Design letter of transmittal.
 - d. Building plans and topographic data and all materials collected by or issued to the Design-Builder by entities other than the Authority.
 - e. Drawing set and/or Specifications transmittals and other communications and replies thereto sent to or received from a Utility including transmittal letters and requests for approvals, reimbursable estimates and other data; confirmation or approval by the affected Utility or Agency of the applicable standards and proposed design; written statement indicating those items of utility work which must be completed prior to construction, and those which must be completed within six months after start of construction as applicable; and of utility plans and all materials collected by or issued to the Design-Builder, as specified in Section 01180, PROJECT UTILITY SOURCES.
 - f. Final test, acceptance and verification criteria and/or procedures for the product being supplied
 - g. A letter from the Design-Builder stating that their design submission complies with the items identified in Design-Builder's Quality Control/Quality Assurance Plan have been complied with.
 - h. N/A
 - i. Risk assessment documentation
 - j. Design schedule

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				miscellaneous disruptions)
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- F. The Authority reserves the first 60 (sixty) minutes following the identified “Report to Site” times to establish the required safety conditions within the Roadway. The column in Table 01141-01 labeled “Access to Site Time” indicates the time the Design-Builder shall be granted access to the Work in the Roadway or the work location if outside of Roadway. The column labeled “Off Site Time” indicates the time the Design-Builder shall be off the Roadway which will give the Authority time to return the Roadway to revenue service, or off the work location if outside of Roadway. The Design-Builder shall be on Site no later than the time listed above in the column labeled “Report to Site”. If the Design-Builder is not on Site and prepared to begin Work at the “Report to Site” time, Access to the Roadway will not be granted.
- G. There are federal holidays that occur on Mondays throughout the year creating a 3-day weekend. In addition to the Hours of Work indicated in Table 1 above, Single Tracking RSAs and Total Shutdowns may be permitted by the Authority on holiday weekends listed below between 01:30 Saturday and 03:30 Tuesday:
 - 1. Martin Luther King Day
 - 2. President’s Day
 - 3. Memorial Day
 - 4. Columbus Day
 - 5. Labor Day
- H. RSA’s will not be permitted during the following periods. Periods beyond 2017 will be provided as needed: **AM1**
 - 1. Presidential Inauguration: January 20, 2017 and the succeeding weekend **AM1**
 - 2. Cherry Blossom Festival: March 19 to April 17, 2016; March 18 to April 16, 2017 **AM1**
 - 3. Race for the Cure: April 30-May 1, 2016; April 29-30, 2017 **AM1**
 - 4. 4th of July: The 4th of July and the weekend preceding the 4th in 2016 and 2017 **AM1**
 - 5. Marine Corps Marathon: October 22-23, 2016; October 28-29, 2017 **AM1**
 - 6. Thanksgiving: Thanksgiving Eve through the following Monday **AM1**
 - 7. Christmas: Christmas Eve and Christmas Day **AM1**
 - 8. New Year: New Year’s Eve and New Year’s Day **AM1**
- I. Proposed dates for Work that require RSA Hours of Work are indicated below. The Design-Builder shall incorporate these dates into the Project Schedule as required Work dates. These dates assume NTP will be issued to the Design-Builder prior to December 31, 2015. If NTP is issued after December 31, 2015 the dates specified herein may be rescheduled.
 - 1. Six (6) dates for Weekend Single Tracking Access are:
 - a. June 25, 2016
 - b. July 16, 2016
 - c. July 23, 2016

C. VSL {ES/ESI and EC/ECI Systems}
8006 Haute Court
Springfield, VA 22150
703-451-4300
www.vsl.net

D. Freyssinet Inc.
4880 Falcon Place, Suite 100
Sterling, VA, 20166
703-378-2500
www.freyssinetusa.com

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PART 3 – EXECUTION

3.01 PROTECTION OF POST-TENSIONING STEEL AFTER INSTALLATION OF TENDONS IN DUCTS

- A. The post-tensioning steel is to be protected from corrosion and the duct system be sealed to prevent moisture intrusion from the time of tendon installation to the time of grouting, as provided below.
- B. The ends of ducts and anchorages and all duct connections are to be sealed at all times following installation in the forms to prevent entry of moisture and debris. In addition, all grout ports and vents are to be closed or plugged at all times during the period prior to grouting.
- C. Proceed with grouting as soon as possible after installation and stressing of the tendons. The time from installing the tendons in an unstressed condition to grouting after stressing must not exceed 7 days without approval of the Representative. It is understood that in most instances, cold weather grouting will not be possible. The Contractor is to protect the tendons and wait until the cast concrete, which the tendons travel through, has reached a sustainable temperature in accordance with the manufacture's recommendations.
- D. Tendon Protection Between Installation and Stressing
Take measure to protect the post-tensioning steel when there is a period of more than 24 hours between installation of the tendons in ducts and stressing. Wrap continuously in plastic sheeting and seal using waterproof tape, bare strand projecting out of the duct. Extend the plastic wrap to the tendon anchorage. Seal the anchorage opening with plastic and waterproof tape sufficient to prevent moisture intrusion. All grout ports and vents are to be closed or plugged, and all duct connections sealed.
- E. Tendon Protection Between Stressing and Grouting
Cap or otherwise seal anchorages immediately following stressing and the cutting of strand tails. Where permanent end anchorages protection caps are required, the time period between stressing and installation of the permanent end caps may not exceed 12 hours without approval of the Representative.
Where permanent end anchorage protection caps are not required, the end anchorage region of the tendon is to be sealed against moisture intrusion using plastic sheeting and waterproof tape within 24 hours of stressing.
- F. In all cases, tendons and ducts are to be thoroughly blown dry with oil-free compressed air immediately prior to sealing or capping of the anchorages. In addition, all grout ports and vents are to remain plugged, sealed or otherwise capped, and all duct connections sealed.
- G. The use of corrosion inhibitors such as water-soluble oils for temporary corrosion protection is not permitted without prior approval of the Representative.

The following drawing index sheet and reference drawings have been added to Volume 3.

<u>DELETE</u>	<u>ADD</u>	<u>DESCRIPTION</u>
G-002	G-002 AM1	New
G-003	G-003 AM1	New
G-003A	G-003A AM1	New
N/A	DD-M-026	New
N/A	DD-M-040	New
N/A	DD-M-098	New
N/A	DD-M-149	New
N/A	A10A-M-40	New
N/A	A10A-M-41	New
N/A	A08TBS-A9b-E-12	New
N/A	A08TBS-SSI6-E-21	New
N/A	A08TPSS-A9b-E-7	New
N/A	A08TPSS-A9b-E-8	New
N/A	A08TPSS-FA10-E-7	New
N/A	A09TBS-FA10-E-4	New
N/A	A09TBS-SSI6-E-31	New
N/A	A09TPSS-FA11-E-32	New
N/A	A09TPSS-SSI6-E-34	New
N/A	A09TPSS-SSI6-E-36	New
N/A	A10TBS-A11a-E-18	New
N/A	A10TBS-FA12-E-9	New
N/A	A10TBS-SSI6-E-51	New
N/A	A10TBS-A11c-E-26	New
N/A	A10TBS-SSI6-E-41	New
N/A	A10TPSS-A11c-E-35	New
N/A	A10TPSS-SSI6-E-44	New
N/A	A10TPSS-SSI6-E-45	New
N/A	A11TBS-A13-E-41	New
N/A	A11TBS-A13-E-44	New
N/A	A11TBS-SSI6-E-61	New
N/A	A11TPSS-FA12-E-5	New
N/A	A11TPSS-SSI6-E-54	New
N/A	A11TPSS-SSI6-E-55	New
N/A	MM-A-E21	New
N/A	MM-A-E22	New
N/A	MM-A-E24	New
N/A	MM-A-E26	New
N/A	MM-A-E29	New
N/A	A13-S-64	New
N/A	A13-S-65	New
N/A	A13-S-66	New
N/A	A13-S-96	New
N/A	A13-S-97	New
N/A	A13-S-100	New
N/A	A13-S-70	New
N/A	A13-S-102	New
N/A	A13-S-165	New
N/A	A13-S-107	New
N/A	A13-S-108	New

N/A	A13-A-8	New
N/A	A13-A-9	New
N/A	A13-A-10	New
N/A	A13-A-11	New
N/A	A13-A-12	New
N/A	A13-A-13	New
N/A	A13-A-14	New

INDEX OF DRAWINGS

PART 4: GROSVENOR -STRATHMORE PLATFORM SLAB AND TILE REPAIR (GSS)

GENERAL DRAWINGS

M1272-141 A11-G-001 STAGING PLAN

CIVIL DRAWINGS

M1272-142 A11-C-100 GROSVENOR STATION - CIVIL EXISTING SITE PLAN

ARCHITECTURAL DRAWINGS

M1272-143 A11-A-001 ABBREVIATIONS, LEGENDS, AND SYMBOLS
 M1272-144 A11-A-100 PARTIAL PLATFORM PLAN (DEMOLITION)
 M1272-145 A11-A-101 PARTIAL PLATFORM PLAN (DEMOLITION)
 M1272-146 A11-A-102 PARTIAL PLATFORM PLAN (NEW WORK)
 M1272-147 A11-A-103 PARTIAL PLATFORM PLAN (NEW WORK)
 M1272-148 A11-A-500 ENLARGED PARTIAL PLATFORM PLAN, DETAILS
 M1272-149 A11-A-501 ENLARGED PARTIAL PLATFORM PLAN, DETAILS
 M1272-150 A11-A-502 ENLARGED PARTIAL PLATFORM PLAN, DETAILS
 M1272-151 A11-A-503 CONCRETE CURB DETAIL AT DISPATCHER'S OFFICE

STRUCTURAL DRAWINGS

M1272-152 A11-S-001 STRUCTURAL GENERAL NOTES AND ABBREVIATIONS
 M1272-153 A11-S-100 STRUCTURAL SLAB REMOVAL & REPLACEMENT PLAN 1 OF 3
 M1272-154 A11-S-101 STRUCTURAL SLAB REMOVAL & REPLACEMENT PLAN 2 OF 3
 M1272-155 A11-S-102 STRUCTURAL SLAB REMOVAL & REPLACEMENT PLAN 3 OF 3
 M1272-156 A11-S-300 STRUCTURAL PLATFORM SECTIONS
 M1272-157 A11-S-500 STRUCTURAL SLAB REPAIR DETAILS
 M1272-158 A11-S-501 STRUCTURAL TYPICAL CONCRETE REPAIR DETAILS 1 OF 2
 M1272-159 A11-S-502 STRUCTURAL TYPICAL CONCRETE REPAIR DETAILS 2 OF 2 AND CURB

MECHANICAL DRAWINGS:

M1272-160 A11-M-001 MECHANICAL GENERAL NOTES AND ABBREVIATIONS
 M1272-161 A11-M-101 MECHANICAL STANDPIPE DEMOLITION PLAN 1 OF 2
 M1272-162 A11-M-102 MECHANICAL STANDPIPE DEMOLITION PLAN 2 OF 2
 M1272-163 A11-M-111 MECHANICAL STANDPIPE NEW WORK PLAN 1 OF 2
 M1272-164 A11-M-112 MECHANICAL STANDPIPE NEW WORK PLAN 2 OF 2
 M1272-165 A11-M-500 MECHANICAL DETAILS

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M1272-166 A11-E-001 SCOPE OF ELECTRICAL WORK AND GENERAL NOTES
 M1272-167 A11-E-100 ELECTRICAL PLAN SHEET 1 OF 2
 M1272-168 A11-E-101 ELECTRICAL PLAN SHEET 2 OF 2
 M1272-169 A11-E-200 PLATFORM LIGHTING PLAN
 M1272-170 A11-E-201 PLATFORM LIGHTING PLAN
 M1272-171 A11-E-202 MEZZANINE LIGHTING PLAN & DETAILS
 M1272-172 A11-E-500 PLATFORM REMOVAL ELECTRICAL SECTIONS AND DETAILS
 M1272-173 A11-E-501 PLATFORM REMOVAL ELECTRICAL SECTIONS AND DETAILS
 M1272-174 A11-E-502 ELECTRICAL DETAILS
 M1272-175 A11-E-503 ELECTRICAL DETAILS
 M1272-176 A11-E-700 PICTURE KEY PLAN
 M1272-177 A11-E-701 PICTURE KEY PLAN
 M1272-178 A11-E-702 PLATFORM REMOVAL ELECTRICAL REPRESENTATIVE PICTURES
 M1272-179 A11-E-703 PLATFORM REMOVAL ELECTRICAL REPRESENTATIVE PICTURES

PART 4: REFERENCE DRAWINGS

ST-A-SW-004 OUTLETS, PLAQUE & MANHOLE
 ADT-A11-FIA-005 GROSVENOR STRATHMORE MAIN DEVICE TO TERMINAL PANEL WIRING
 ADT-A11-FIA-005 GROSVENOR STRATHMORE ANCILLARY DEVICE TO TERMINAL PANEL WIRING
 ADT-A11-FIA-006 GROSVENOR STRATHMORE DF TERMINAL PANEL CONNECTIONS
 23534A11A001 IISA115600A WMATA INTER-COMMUNICATION 1-CE CONFIGURATION COVER SHEET / INDEX
 23534A11A002 IISA115601A WMATA INTER-COMMUNICATION SYSTEM BLOCK DIAGRAM, MAJOR EQUIPMENT LIST & CHART ID
 23534A11A003 IISA115602A WMATA INTER-COMMUNICATION PRIMARY KIOSK CABLE ROUTING
 23534A11A004 IISA115603A WMATA INTER-COMMUNICATION CE INTERCONNECTION
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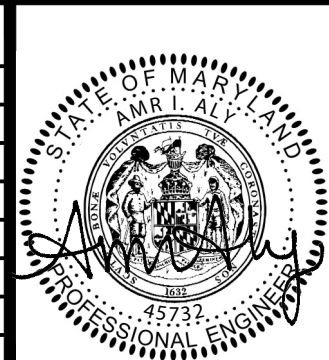
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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM
GFP A Gannett Fleming/Parsons JOINT VENTURE
 APPROVED _____ SUBMITTED _____ PROJECT MANAGER

RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR
 INDEX OF DRAWINGS -- II
 SCALE AS SHOWN DRAWING NO. G-003 SHEET NO. M1272-003
 CONTRACT NO. **FINAL** **FQ15093**

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DRAWN		DATE		DATE		DATE	
CF		02-15					
CHECKED		DATE		DATE		DATE	
JT		02-15					
APPROVED		DATE		DATE		DATE	
JP		02-15					

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M276-207	A11B-M-40	BETHESDA STATION PLATFORM PLAN
M276-208	A11B-M-41	BETHESDA STATION SOUTH ANCILLARY SPACES PLATFORM LEVEL
M276-209	A11B-M-43	BETHESDA STATION SOUTH ANCILLARY SPACE SECTION
M276-210	A11B-M-44	BETHESDA STATION SOUTH ANCILLARY SPACES MEZZANINE LEVEL
M276-211	A11B-M-46	BETHESDA STATION ELM STREET VENT SHAFT LOWER LEVEL AND UPPER STRUCTURE PLAN AND SECTION
M276-212	A11B-M-47	PIPE SUPPORT AND SLEEVE DETAILS
M276-213	A11B-M-48	DRAINAGE DETAILS
M276-214	A11B-M-49	DRAINAGE DETAILS
M276-215	A11B-M-50	HYDROSTATIC PRESSURE RELIEF SYSTEM SECTIONS AND DETAILS
M276-216	A11B-M-51	HYDROSTATIC PRESSURE RELIEF SYSTEM NOT USED
M276-217		NOT USED
M276-218	ST-M-1	DRAINAGE DETAILS AND CASTINGS, SHT. 1
M276-219	ST-M-26	DRAINAGE DETAILS AND CASTINGS, SHT. 2 SECTION NO. A11B
M276-220	ST-M-50	MECHANICAL DETAILS SECTION NO. A11B
M276-221	ST-M-53	DRAINAGE DETAILS & CASTINGS SHT. 4 SECTION NO. A11B
M276-222	ST-M-100	MAINTENANCE HATCH FOR ESCALATOR AND ELEVATOR MACHINE ROOM SHT. 1 SECTION NO. A11B
M276-223	ST-M-101	MAINTENANCE HATCH FOR ESCALATOR AND ELEVATOR MACHINE ROOM SHT. 2 SECTION NO. A11B
M276-224	ST-M-106	ACCESS DOOR AND STAIR ARRANGEMENT FOR PASSENGER EMERGENCY EXIT SECTION NO. A11B
M276-225	ST-M-137	FRAMES & GRATINGS SHT. 1 SECTION NO. A11B
M276-226	ST-M-138	FRAMES & GRATINGS SHT. 2 SECTION NO. A11B

ELECTRICAL DRAWINGS

M276-227	A11B-E-1	KEY PLAN ELECTRICAL DRAWINGS
M276-228	A11B-E-2	SYMBOLS ABBREVIATIONS & GENERAL NOTES
M276-229	A11B-E-45	EMBEDDED ITEMS DETAILS
M276-230	A11B-E-30	BETHESDA STATION TELEPHONE BOOTH & MAP CASE DETAIL
M276-231	A11B-E-47	BETHESDA STATION GROUNDING ARRANGEMENT
M276-232	A11B-E-3	BETHESDA STATION NORTH & SOUTH ANCILLARY SPACES-PLATFORM LEVEL
M276-233	A11B-E-5	BETHESDA STATION PLATFORM PLAN-STA 395+00 TO STA 393+07
M276-234	A11B-E-6	BETHESDA STATION PLATFORM PLAN-STA 393+07 TO STA 391+07
M276-235	A11B-E-7	BETHESDA STATION PLATFORM PLAN-STA 391+07 TO STA 389+07
M276-236	A11B-E-8	BETHESDA STATION MEZZANINE PLAN-STA 394+58.33 TO STA 392+48.67
M276-237	A11B-E-9	BETHESDA STATION NORTH AND SOUTH ANCILLARY SPACES-MEZZANINE LEVEL
M276-238	A11B-E-10	BETHESDA STATION PASSAGEWAY-ANCILLARY PLAN
M276-239	A11B-E-11	BETHESDA STATION ESCALATORWAY PLAN AND SECTION
M276-240	A11B-E-12	BETHESDA STATION ENTRANCE PLAN
M276-241	A11B-E-13	BETHESDA STATION TRACTION POWER SUBSTATION AND CHILLER PLANT
M276-242	A11B-E-14	BETHESDA STATION TRACTION POWER SUBSTATION AND CHILLER PLANT DETAILS
M276-243	A11B-E-114	BETHESDA STATION TRACTION POWER CONDUIT-TRACK LEVEL PLAN
M276-244	A11B-E-214	TRACTION POWER CONDUIT STA. 395+84.33
M276-245	A11B-E-115	BETHESDA STATION GROUNDING SYSTEM
M276-246	A11B-E-15	BETHESDA STATION TRAIN CONTROL CONDUIT SCHEUDULE
M276-247	A11B-E-16	BETHESDA STATION COMMUNICATION CONDUIT SCHEUDULE
M276-248	A11B-E-17	BETHESDA STATION COMMUNICATION CONDUIT SCHEUDULE
M276-249	A11B-E-18	BETHESDA STATION COMMUNICATION CONDUIT SCHEUDULE
M276-250	A11B-E-118	BETHESDA STATION COMMUNICATION CONDUIT SCHEUDULE
M276-251	A11B-E-19	BETHESDA STATION A.C. POWER CONDUIT SCHEDULE
M276-252	A11B-E-20	BETHESDA STATION A.C. POWER CONDUIT SCHEDULE
M276-253	A11B-E-201	BETHESDA STATION A.C. POWER CONDUIT SCHEDULE
M276-254	A11B-E-120	CONDUIT SCHEDULE BETHESDA STATION NORTH VENT SHAFT
M276-255		NOT USED
M276-256		NOT USED
M276-257	ST-E-15	MISCELLANEOUS DETAILS SECTION NO. A11B
M276-258	ST-E-301	CATHODIC PROTECTION DETAILS SECTION NO. A11B
M276-260	ST-E-303	CORROSION CONTROL SYSTEM TESTING DETAILS SECTION NO. A11B
M276-261	ST-TC-2	BURIED CONDUIT ARRANGEMENT TRAIN CONTROL TRACK CABLES

ADDED DRAWINGS

M276-262	ST-U-32	WASHINGTON SUBURBAN SANITARY COMMISSION - WATER DETAILS
M276-263	ST-U-33	WASHINGTON SUBURBAN SANITARY COMMISSION - WATER DETAILS

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 45732, EXPIRATION DATE 07-22-2016

FINAL

CONTRACT NO.

FQ15093

DESIGNED <u>CF</u>	DATE	REVISIONS			
		NUMBER	DESCRIPTION	DATE	BY
	02-15			05-15	JP
DRAWN <u>CF</u>	DATE				
CHECKED <u>JT</u>	DATE				
APPROVED <u>JP</u>	DATE				



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM



APPROVED _____

SUBMITTED _____
PROJECT MANAGER

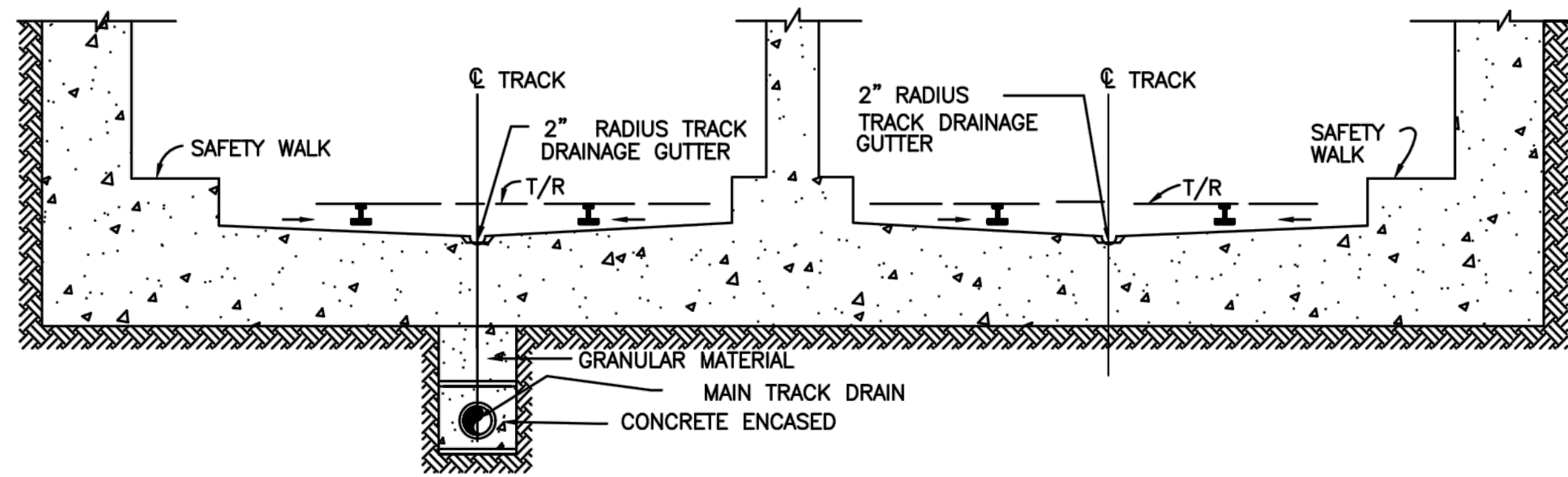
RED LINE REHAB.-FRIENDSHIP HEIGHTS TO GROSVENOR

INDEX OF DRAWINGS - III

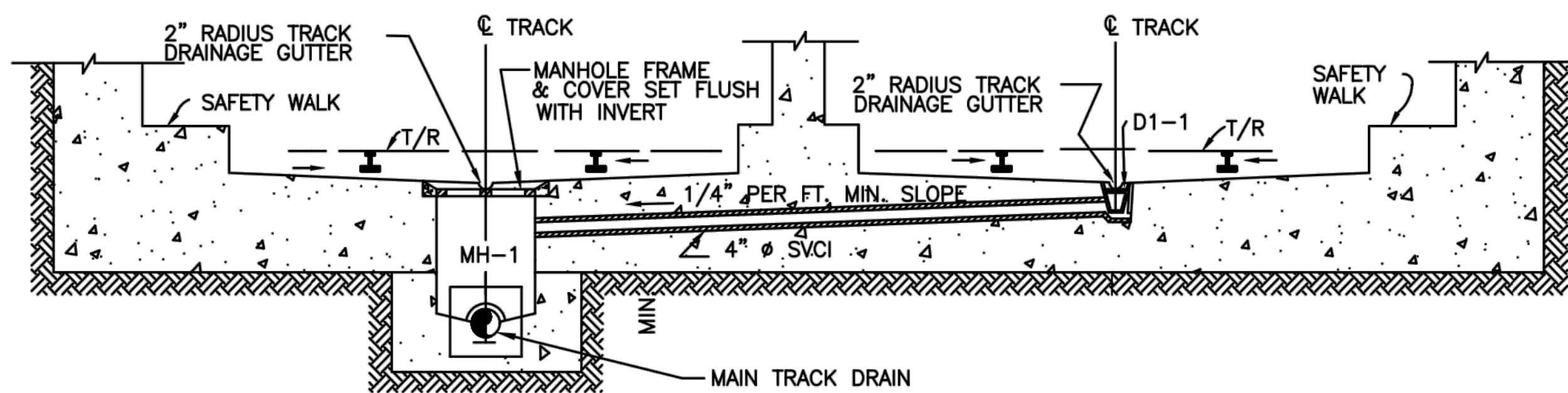
SCALE
AS SHOWN

DRAWING NO.
G-003A

SHEET NO.
M1272-003A



TYPICAL DRAINAGE CROSS - SECTION
(STANDARD DOUBLE BOX TANGENT SECTION)

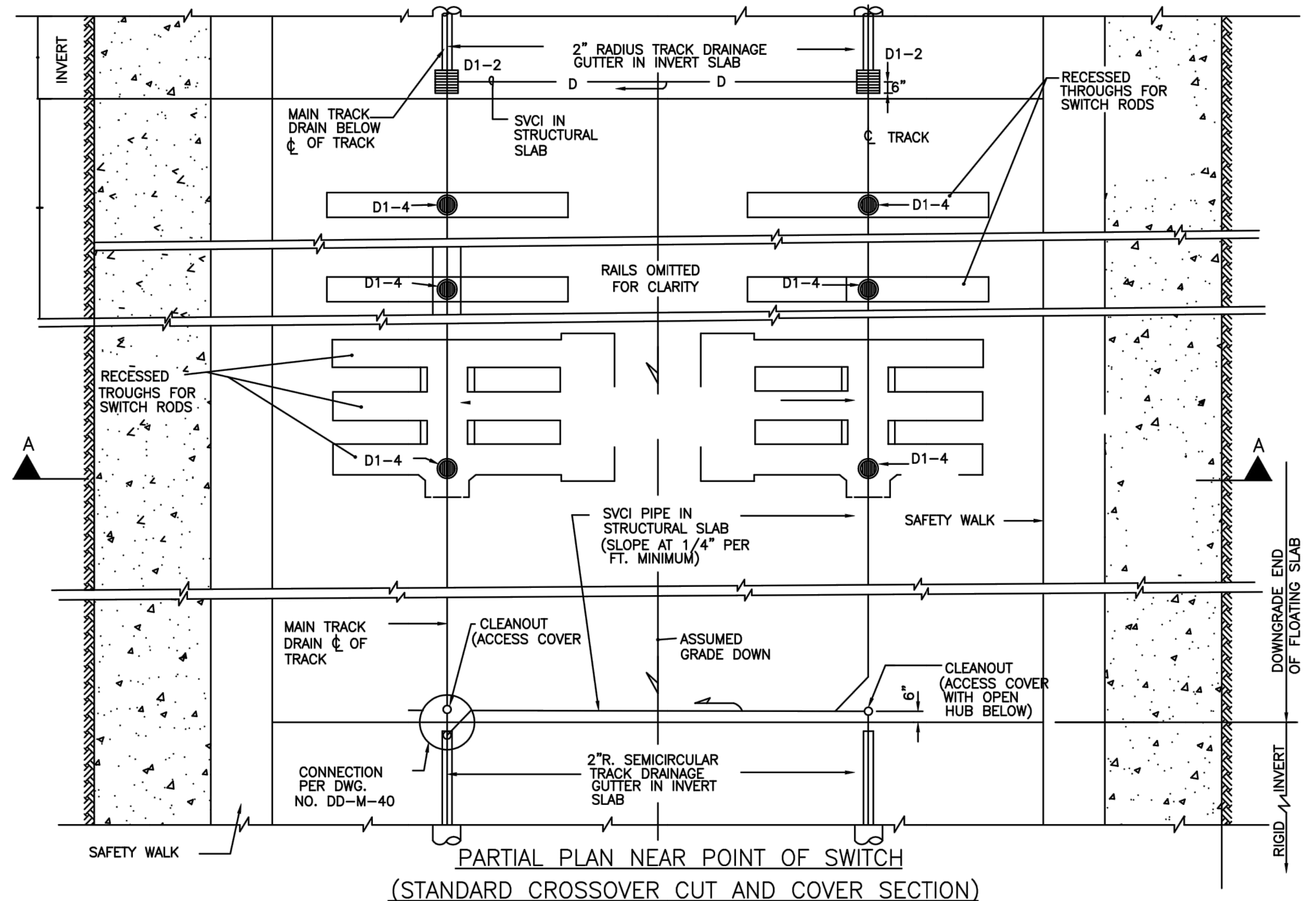


TYPICAL DRAINAGE CROSS-SECTION AT DRAIN INLET AND MANHOLE
(STANDARD DOUBLE BOX TANGENT SECTION)

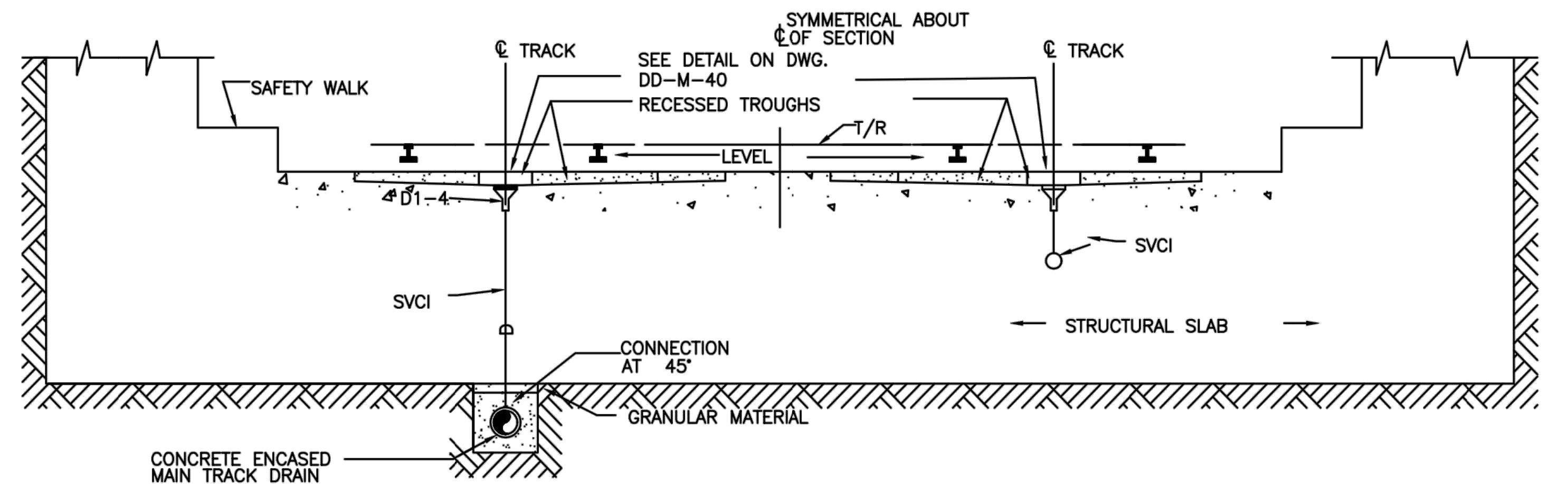
GENERAL NOTES

- FOR DETAILS AND SPACING OF DRAINAGE STRUCTURES REFER TO DD-M-149
- ABBREVIATIONS:
SVC - SERVICE WEIGHT CAST IRON

MH-1 MANHOLE
D1-1 DRAIN INLET



PARTIAL PLAN NEAR POINT OF SWITCH
(STANDARD CROSSOVER CUT AND COVER SECTION)



SECTION A-A
DRAINAGE CROSS SECTION NEAR POINT OF SWITCH
(STANDARD CROSSOVER CUT AND COVER SECTION)
(SEE "PARTIAL PLAN" ABOVE)

1' 0" 1' 2' 3"
AND AS NOTED

DESIGNED	C.M. BISHOP	9-67	REFERENCE DRAWINGS		REVISIONS		
			NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	P.E. EASLEY	9-67	DD-S-020	CUT AND COVER DOUBLE BOX DETAILS	08/2001	ENGA	Revised and issued by the Authority
CHECKED	C.M. BISHOP	9-67	DD-M-149	DRAINAGE DETAILS AND CASTINGS SHEET 1			
APPROVED	R. GANERWAL	11-67					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT SYSTEM DEVELOPMENT
OFFICE OF ENGINEERING AND ARCHITECTURE

MECHANICAL DESIGN DRAWING
TYPICAL DRAINAGE CROSS SECTIONS
CUT & COVER CONSTRUCTION

SUBMITTED

DATE

APPROVED

DIRECTOR

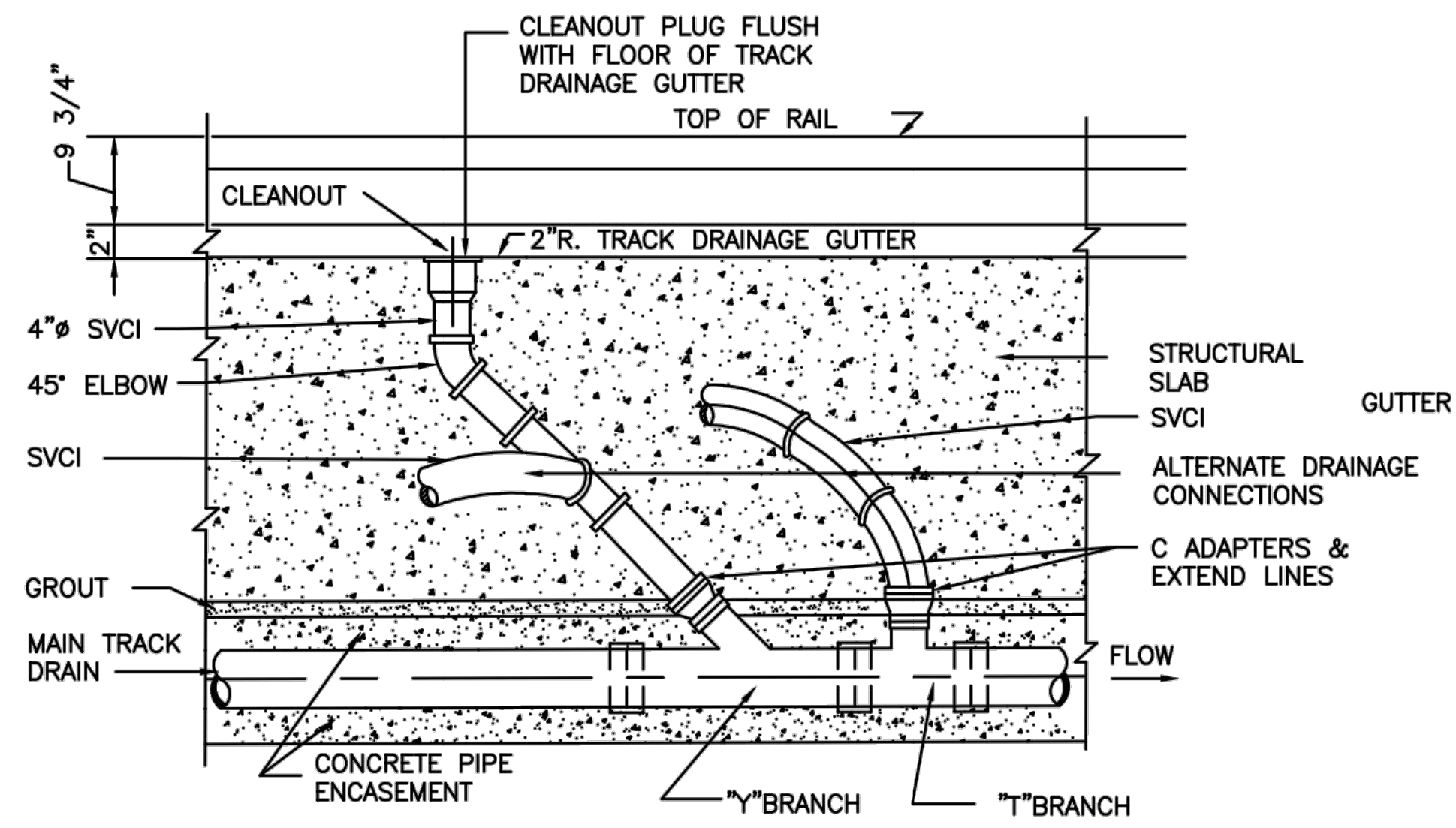
May 3, 2001

DATE

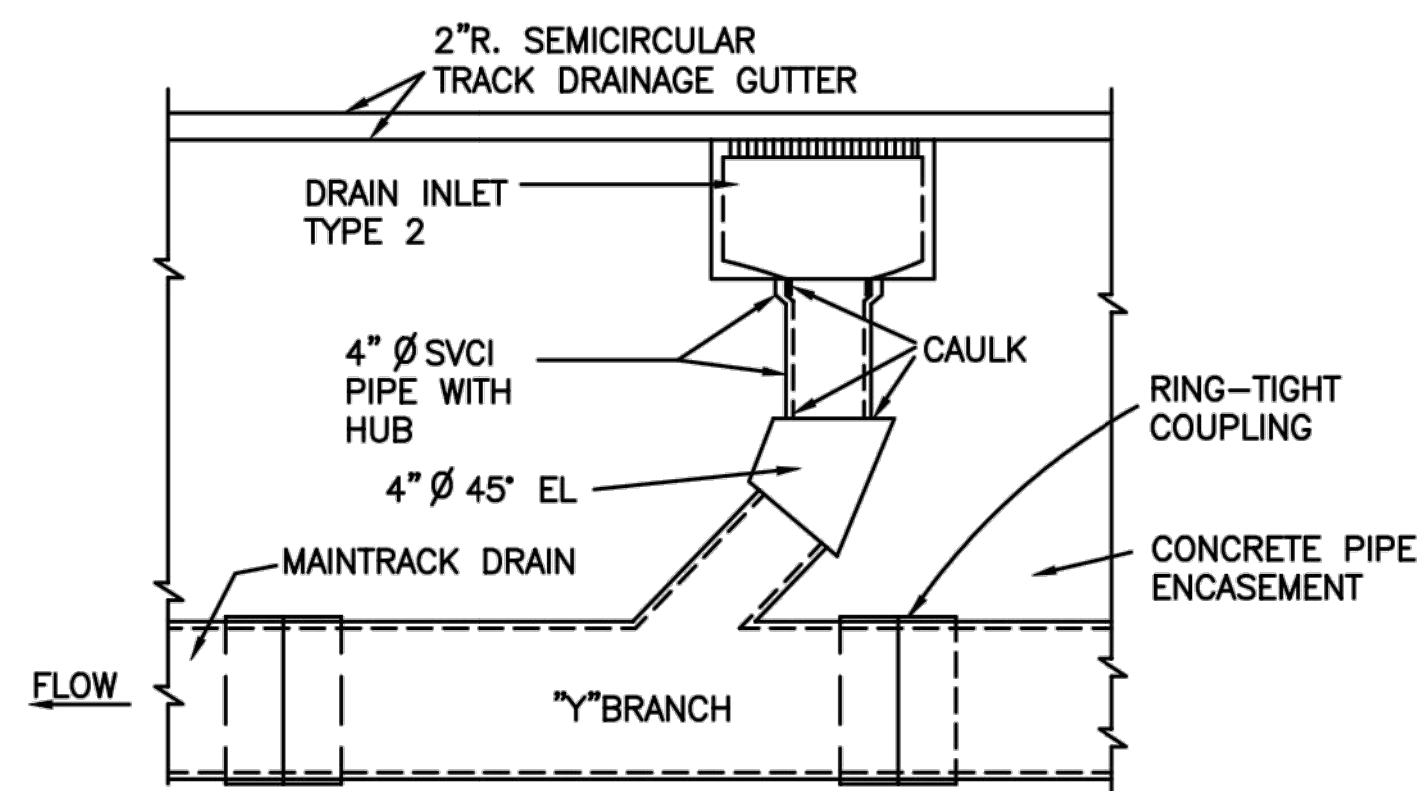
SCALE
3/8"=1'-0"

DRAWING NO.

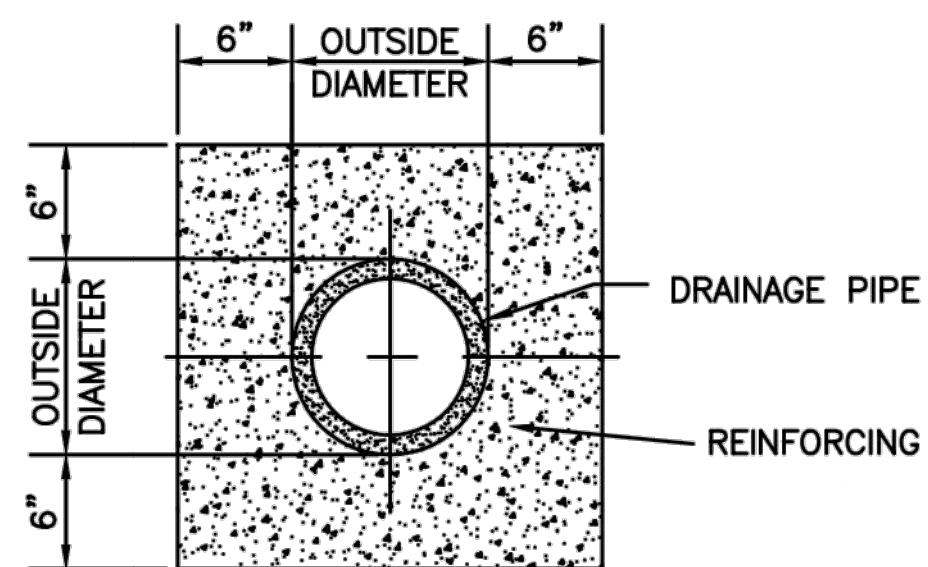
DD-M-026



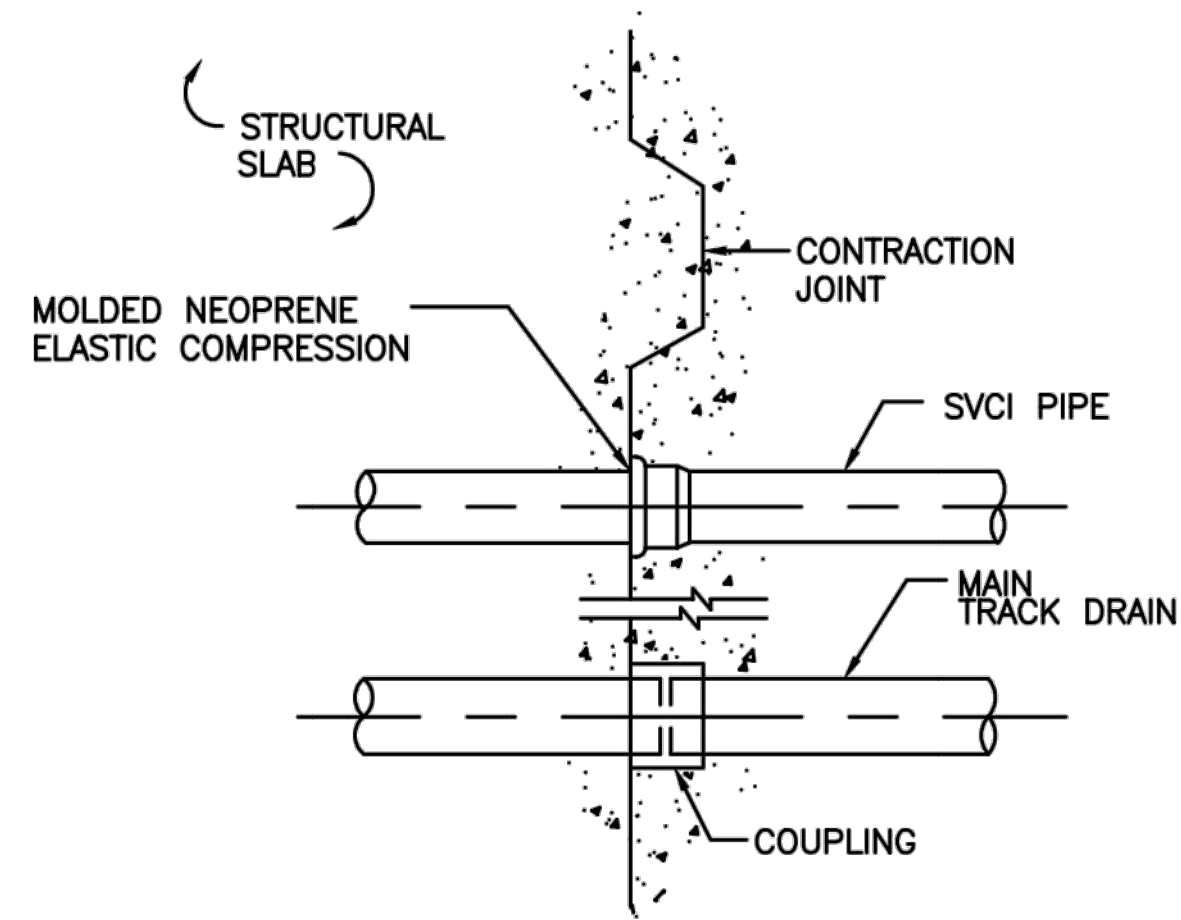
DRAINAGE PIPING CONNECTIONS TO MAIN TRACK DRAIN



DRAIN INLET CONNECTION TO MAIN TRACK DRAIN



CONCRETE PIPE ENCASEMENT FOR STANDARD TRACK DRAIN



PIPE JOINT AT CONTRACTION JOINT

DESIGNED	I.M. SOLOMON	4-88
		DATE
DRAWN	P.E. EASLEY	5-88
		DATE
CHECKED	I.M. SOLOMON	5-88
		DATE
APPROVED	C.W. DAUGHERTY	5-88
		DATE

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS		
DATE	BY	DESCRIPTION
08/2001	ENGA	Revised and issued by the Authority

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT SYSTEM DEVELOPMENT
OFFICE OF ENGINEERING AND ARCHITECTURE

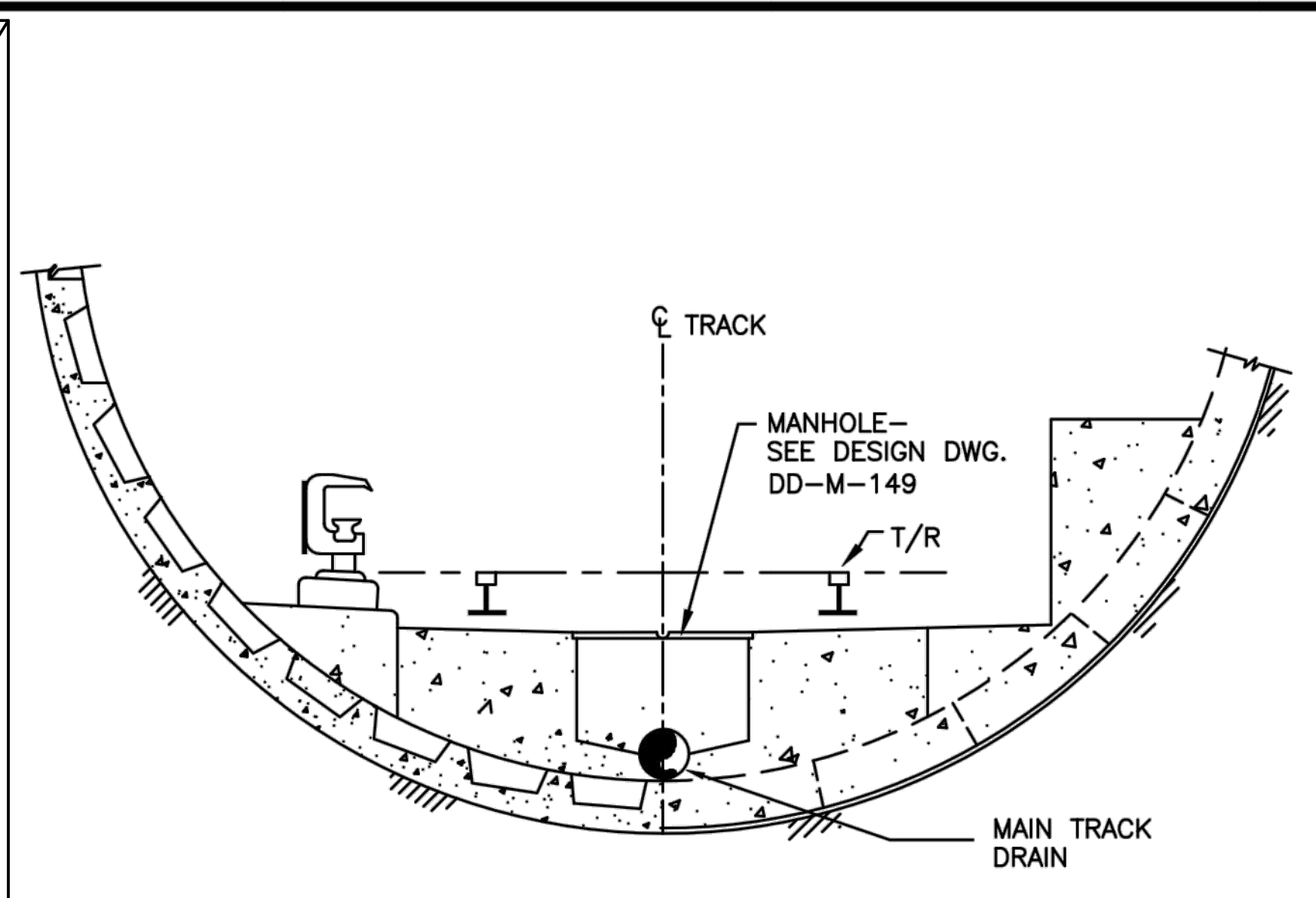
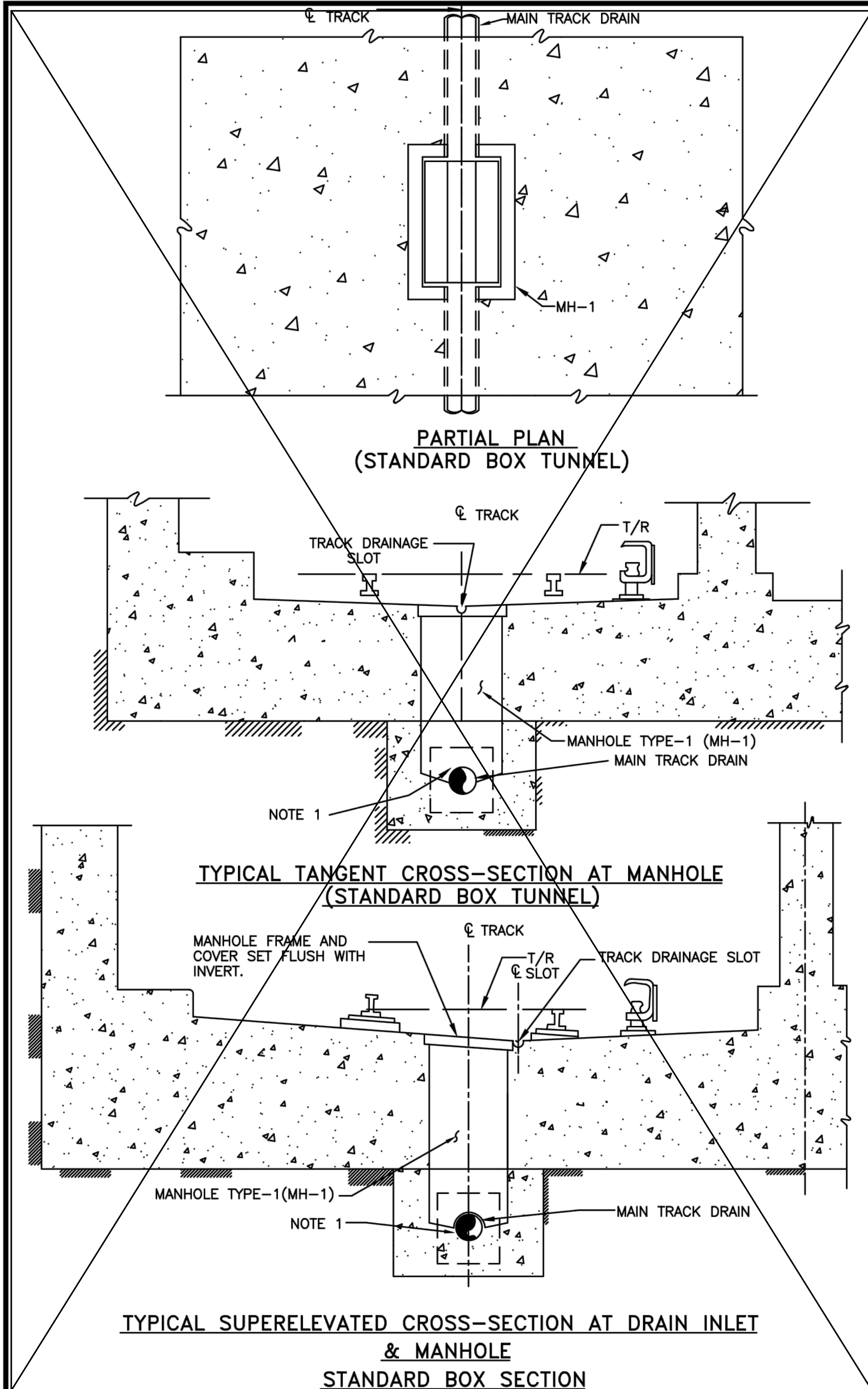
SUBMITTED _____ DATE _____

APPROVED *[Signature]* May 3, 2001
DIRECTOR DATE

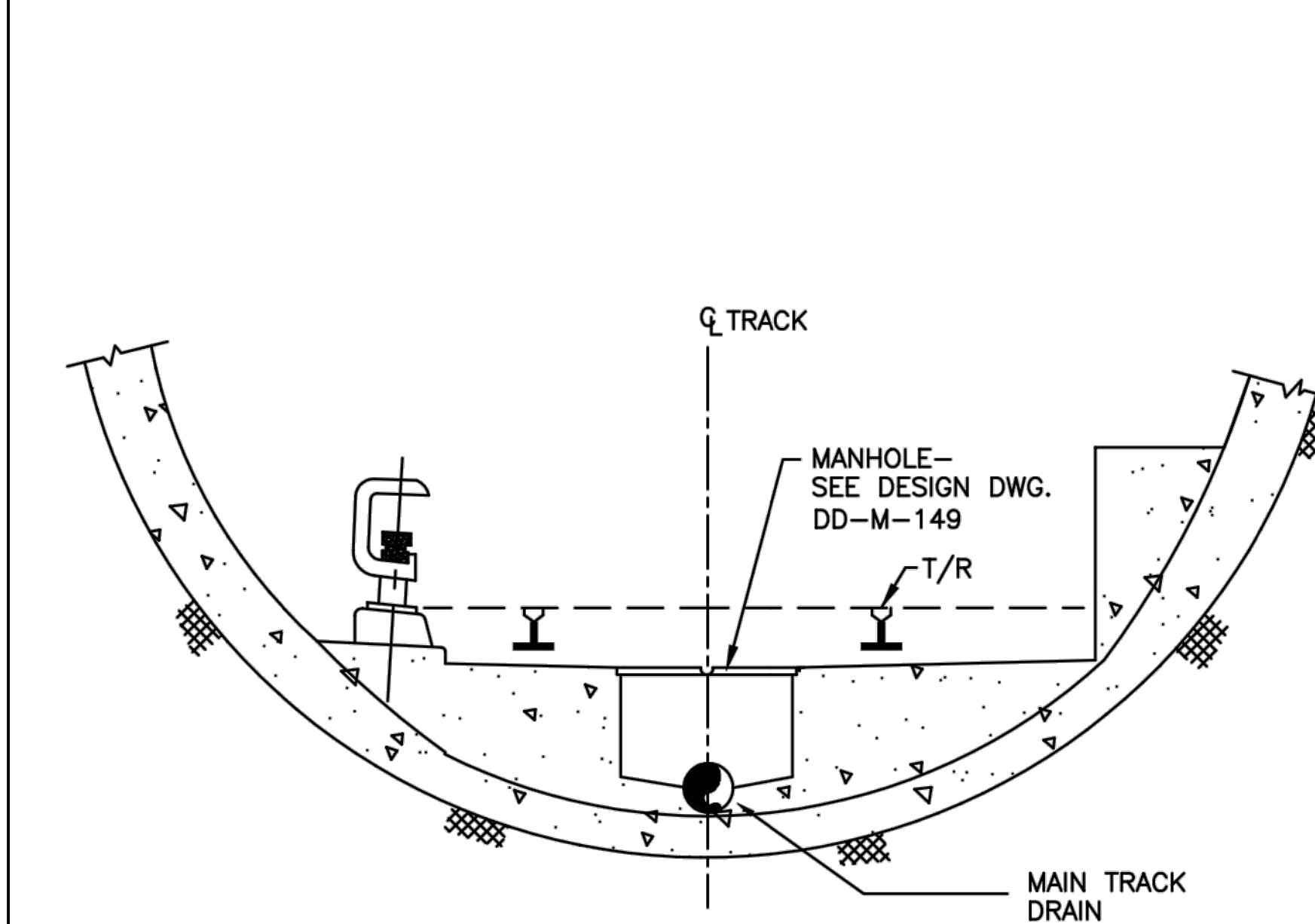
MECHANICAL DESIGN DRAWING
MISCELLANEOUS DRAINAGE DETAILS

SCALE
NOT TO SCALE

DRAWING NO.
DD-M-040



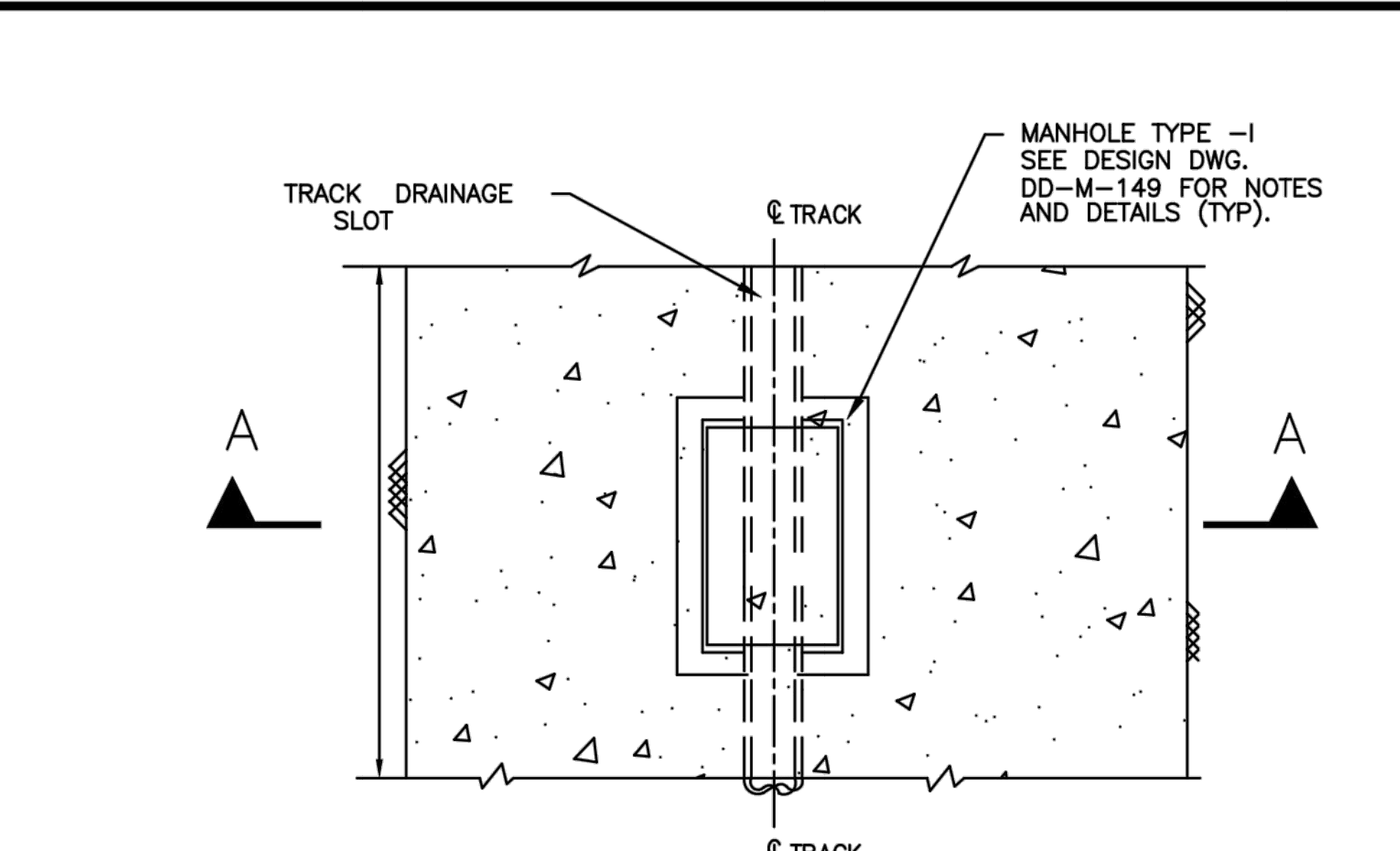
TYPICAL TANGENT CROSS-SECTION FOR PRECAST CONCRETE LINED CIRCULAR TUNNEL



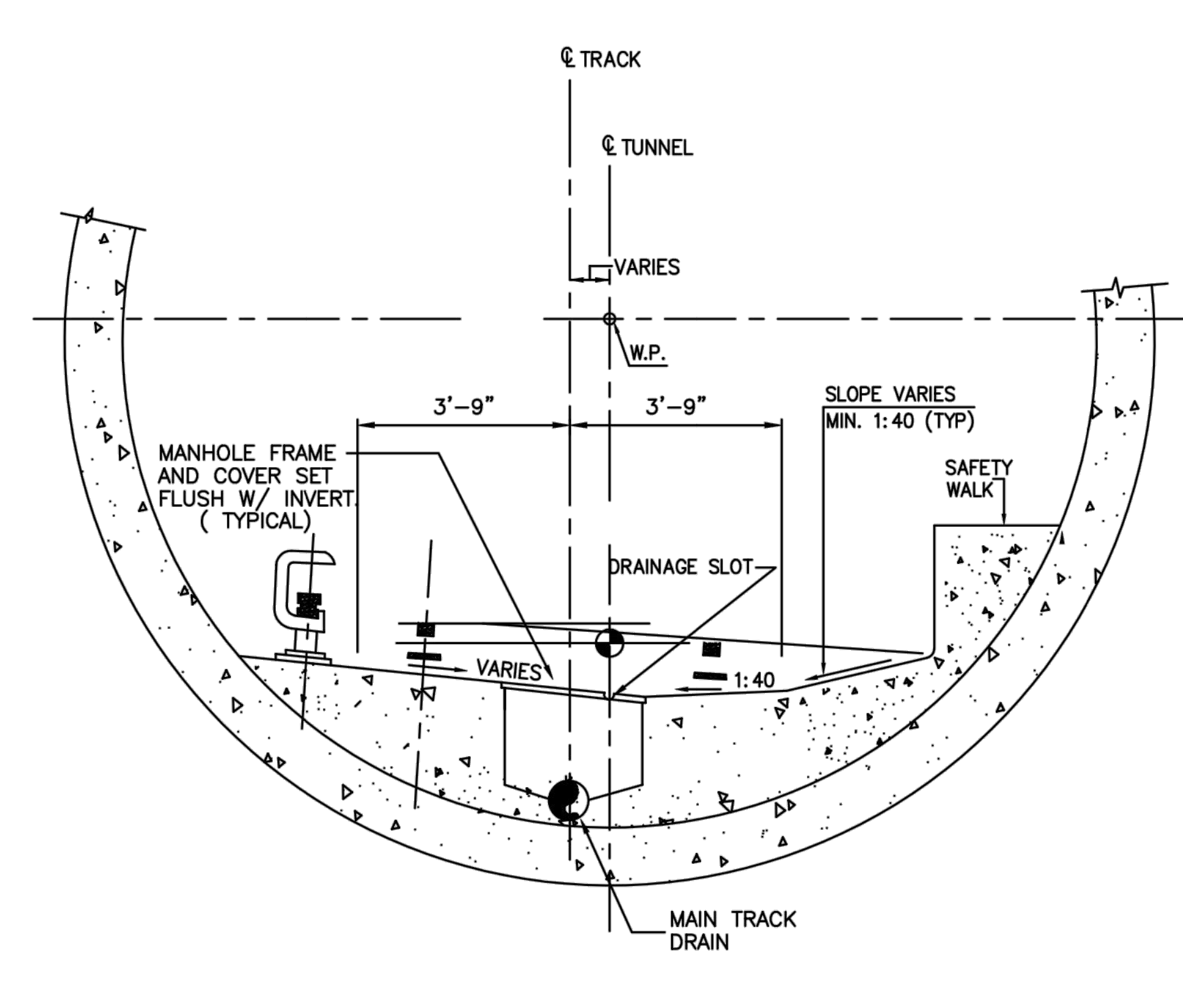
TYPICAL TANGENT CROSS-SECTION FOR CONCRETE LINED CIRCULAR TUNNEL

GENERAL NOTES

1. MAIN TRACK DRAIN TREATMENT AT MANHOLES AS PER DWG. DD-M-149
2. REFER TO DRAWING NO. M-001 FOR ABBREVIATIONS USED ON THIS DRAWING.



PARTIAL PLAN (SUPERELEVATED CIRCULAR TUNNEL)



SECTION A-A
TYPICAL SUPERELEVATED CROSS-SECTIONS FOR CONCRETE LINED CIRCULAR TUNNEL

DESIGNED		DATE		REFERENCE DRAWINGS		DATE		BY		DESCRIPTION	
P. EASLEY	10-71	DD-M-149	10-71	DD-M-149	DRAINAGE DETAILS AND CASTINGS SHEET 1	08/2001	ENGA			Revised and issued by the Authority	
A. BURNS	10-71	DD-M-155	2-72	DD-M-155	PLUMBING AND FIRE PROTECTION SYMBOLS						
I.M. SOLOMON	2-72										
R.S. O'NEAL	2-72										

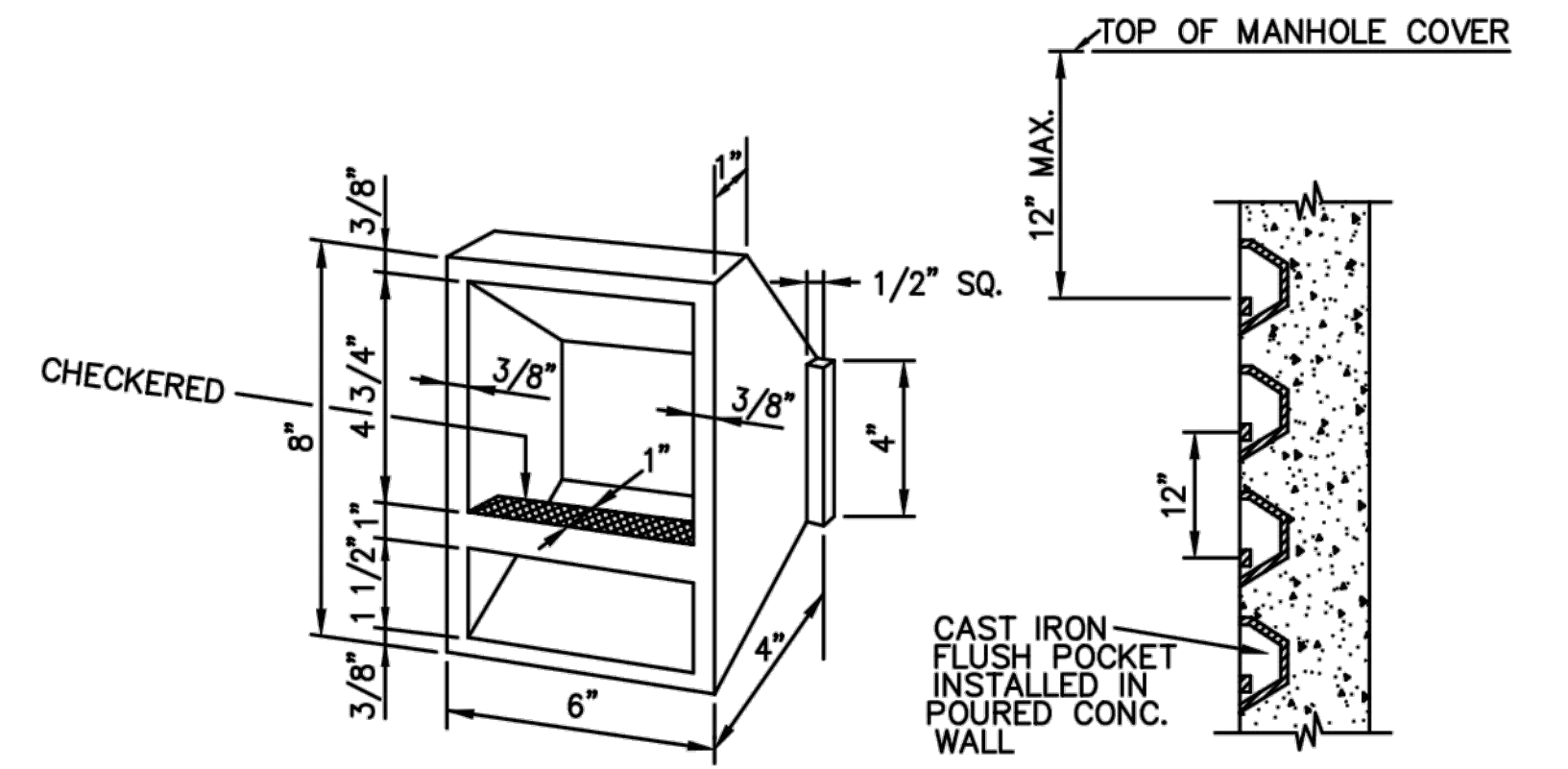
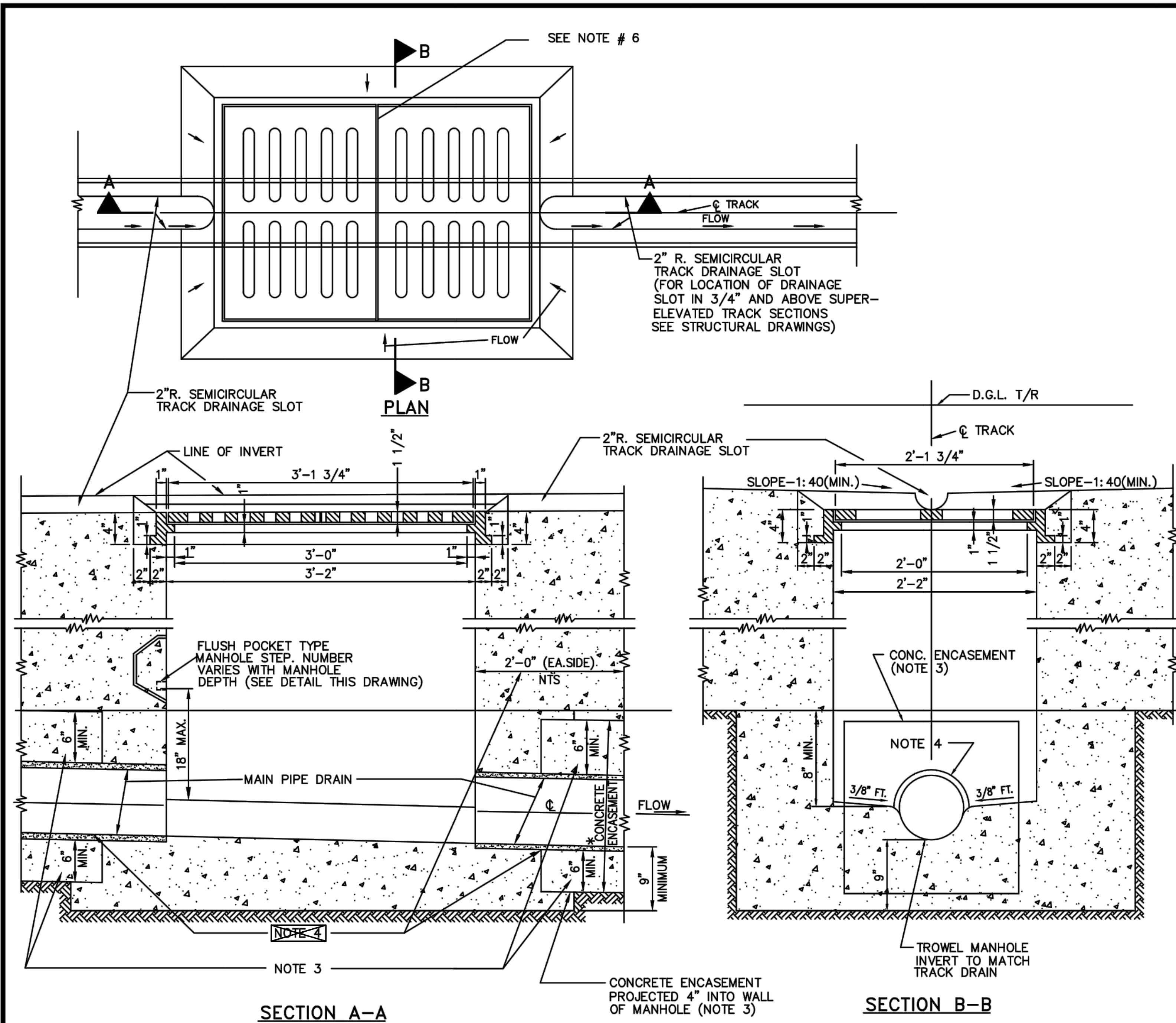
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT SYSTEM DEVELOPMENT
OFFICE OF ENGINEERING AND ARCHITECTURE

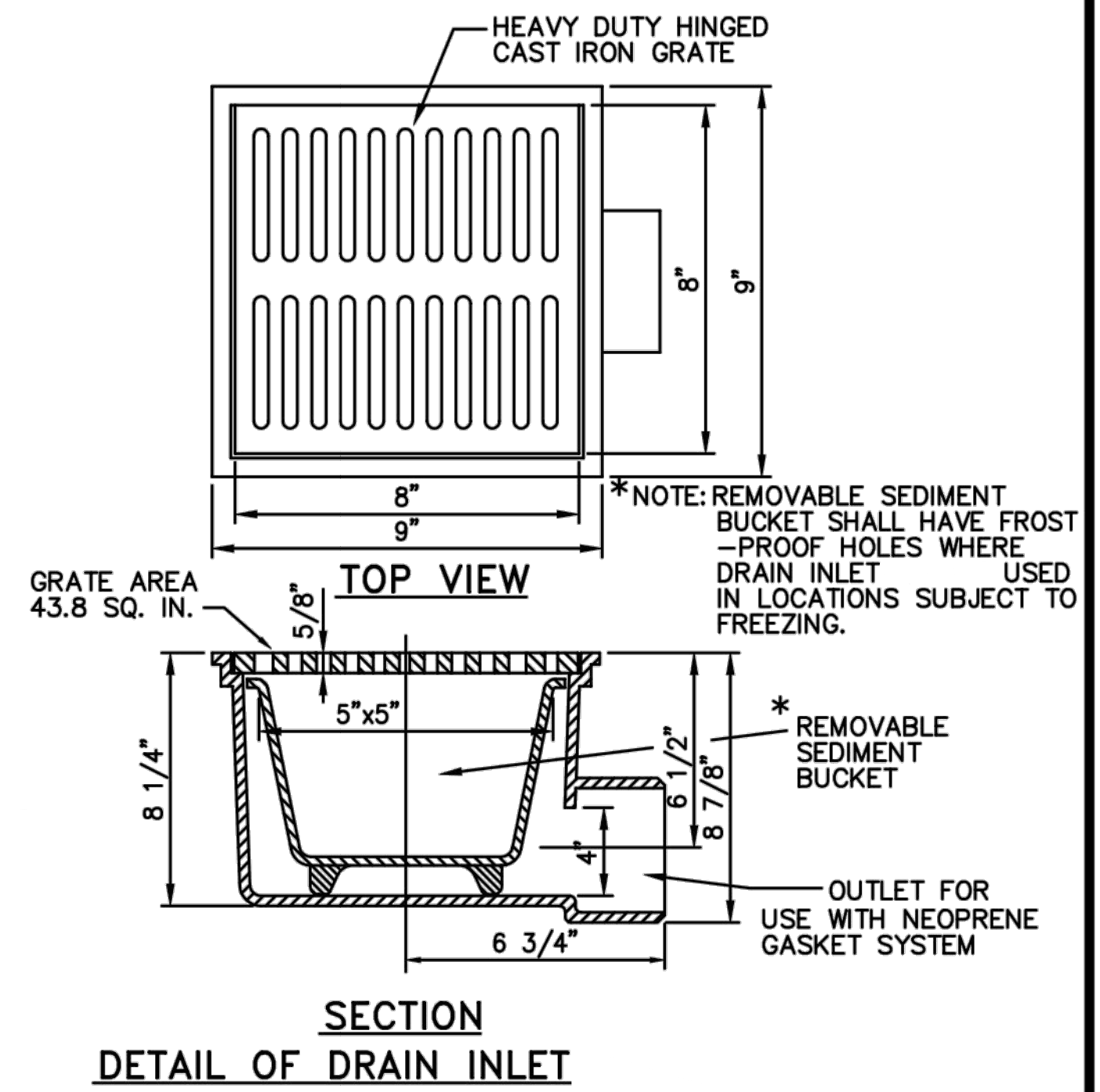
SUBMITTED _____ DATE _____ APPROVED _____ DIRECTOR _____ May 3, 2001 DATE _____

MECHANICAL DESIGN DRAWING
TYPICAL DRAINAGE CROSS-SECTIONS & DETAILS FOR STD.BOX & CIRCULAR TUNNEL

SCALE 1/2"=1'-0" DRAWING NO. DD-M-098



3-DIMENSIONAL VIEW
TYPICAL INSTALLATION
DETAIL OF FLUSH POCKET TYPE MANHOLE STEP

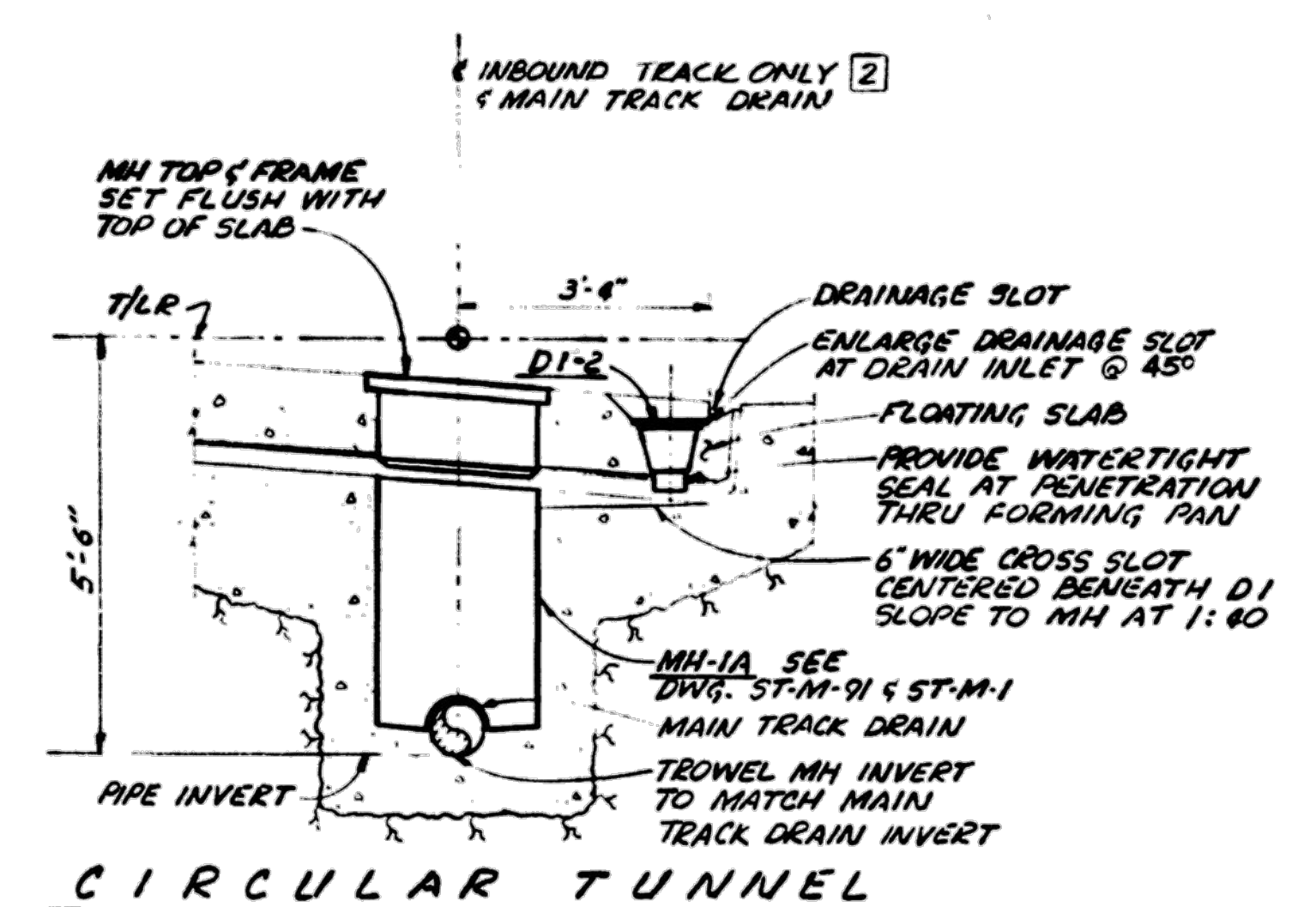
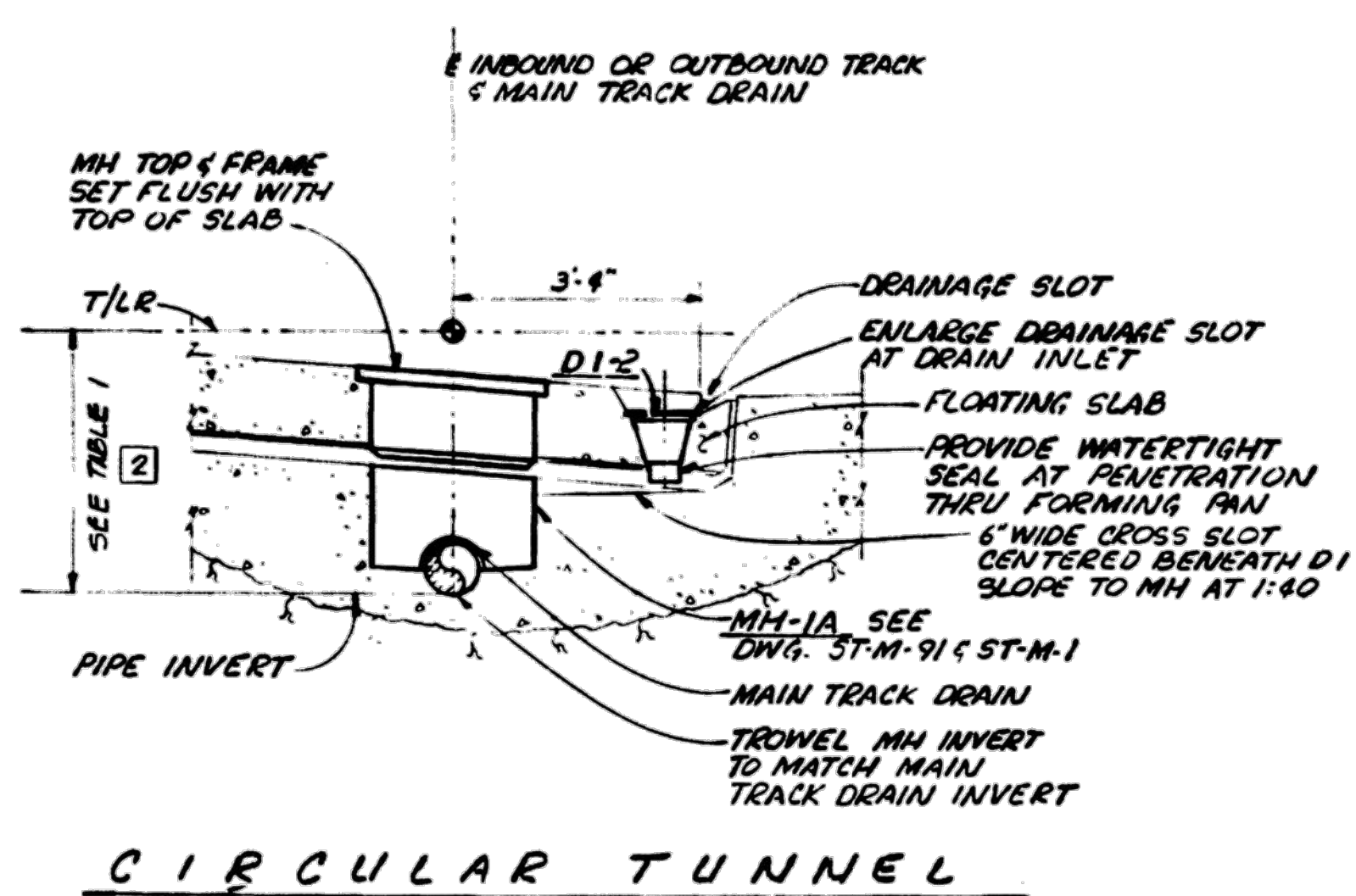
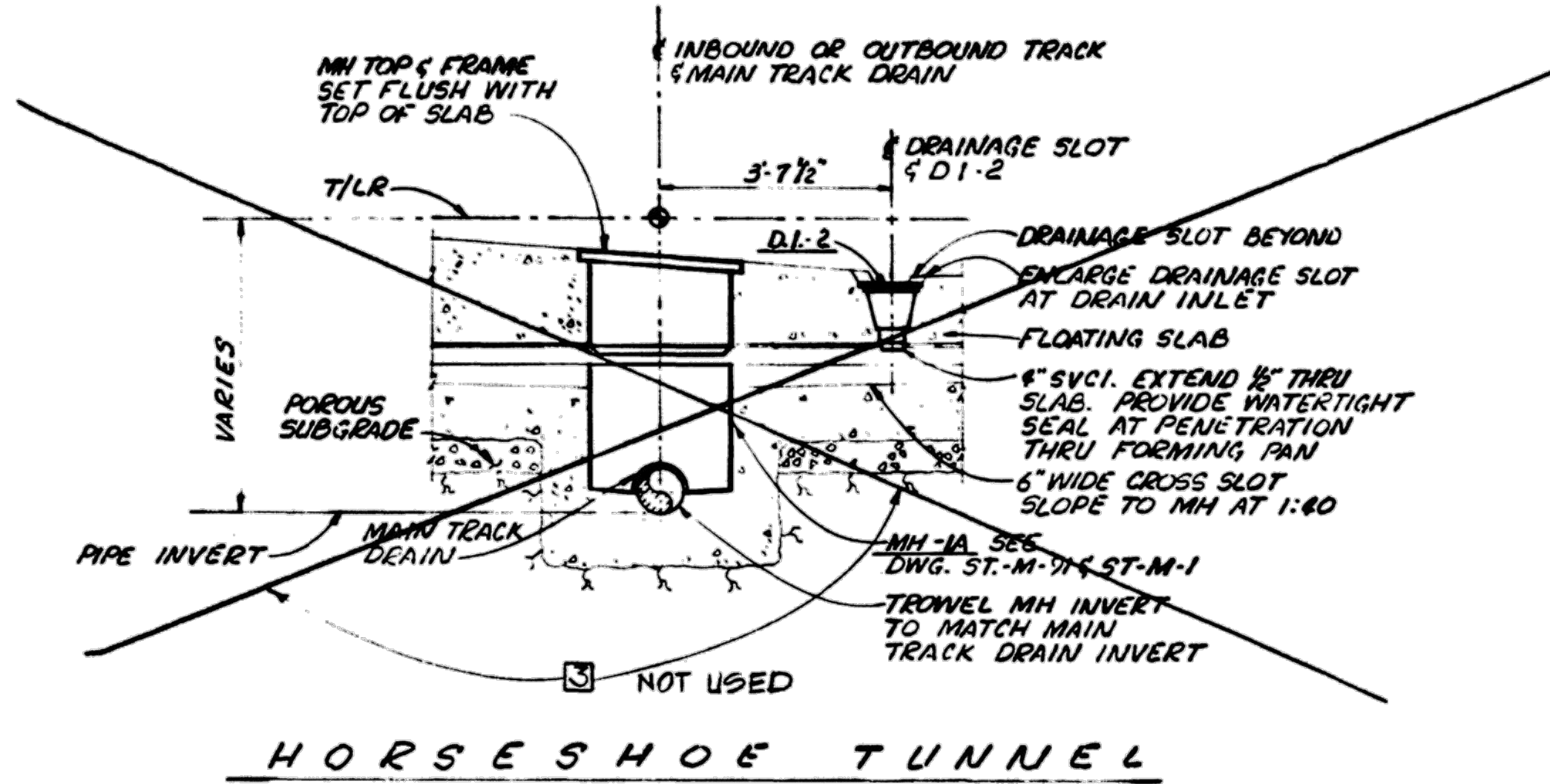


SECTION
DETAIL OF DRAIN INLET

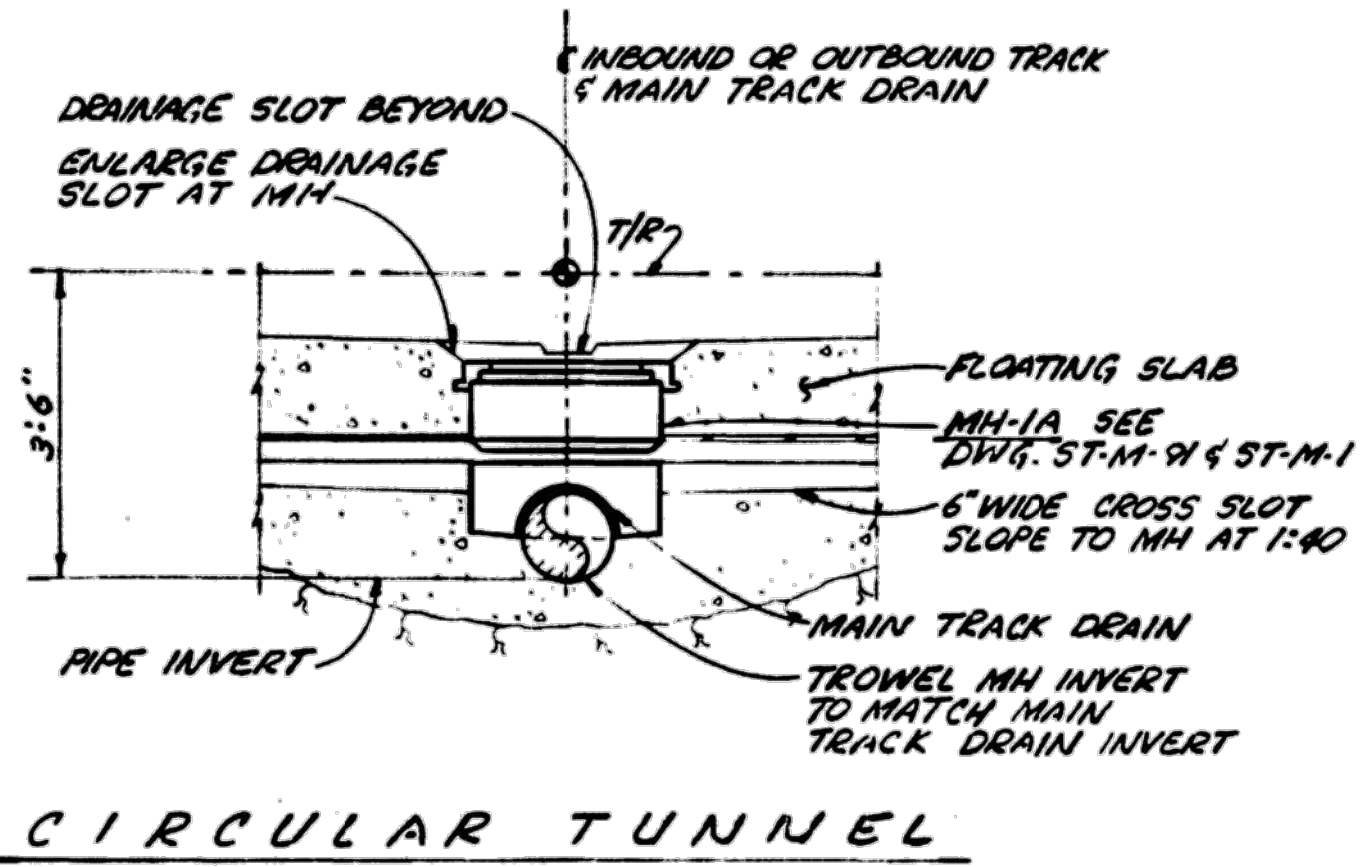
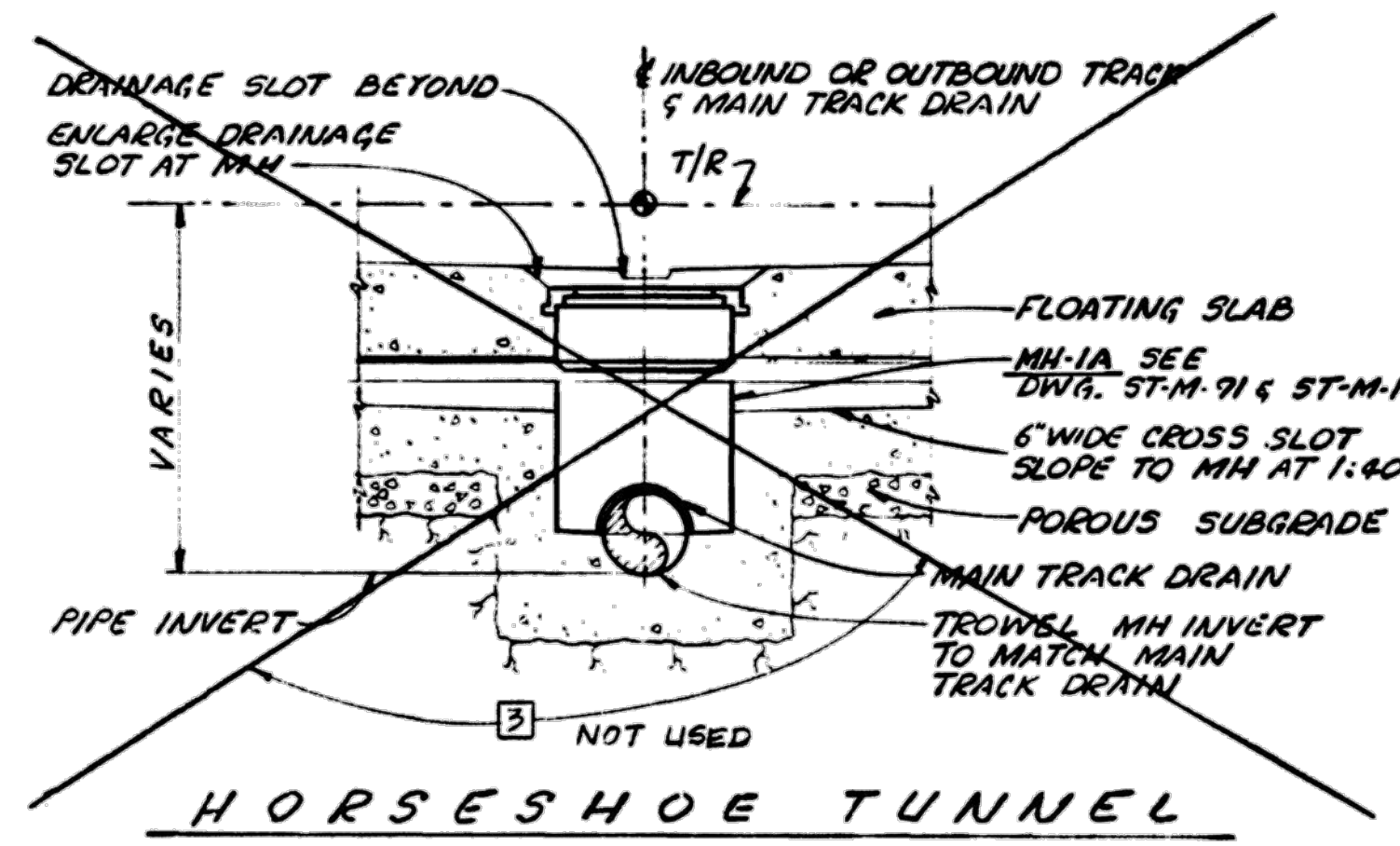
DETAIL OF MANHOLE

- NOTES:
1. PROVIDE MANHOLES FOR ACCESS TO MAIN TRACK DRAIN WHERE INDICATED. WEIGHT OF GRATE AND FRAME: 325 POUNDS.
 2. FOR STRUCTURAL DIMENSIONS AND REINFORCING SEE STRUCTURAL CONTRACT DRAWINGS.
 3. CONCRETE ENCASEMENT IS NOT REQUIRED FOR PERFORATED PIPES AS INDICATED FOR ROCK TUNNEL.
 4. WHERE POLYVINYL CHLORIDE OR POLYETHYLENE IS THE MAIN PIPE DRAIN MATERIAL, USE CAST IRON PIPE FOR MINIMUM OF 2 FT. EACH SIDE OF MANHOLE.
 5. MATERIAL: FRAME AND GRATE, CAST IRON PER ASTM A48 CLASS 35.
 6. PROVIDE SPLIT MANHOLE GRATING.

DESIGNED		DATE		REFERENCE DRAWINGS		DATE		BY		REVISIONS		DESCRIPTION		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY		MECHANICAL DESIGN DRAWING			
DRAWN	ENG			DD-M-150	DRAINAGE DETAILS AND CASTINGS SH. 2.	08/2001	ENG			Revised and issued by the Authority	DEPARTMENT OF TRANSIT SYSTEM DEVELOPMENT		OFFICE OF ENGINEERING AND ARCHITECTURE		DRAINAGE DETAILS AND CASTINGS		SHEET 1		
CHECKED				DD-M-151	DRAINAGE DETAILS AND CASTINGS SH. 3.														
APPROVED																			
UPDATED	ENG	12-98																	
												SUBMITTED		APPROVED		DATE		DRAWING NO.	
														May 3, 2001		NOT TO SCALE		DD-M-149	



MANHOLE AT SUPERELEVATED SECTION WITH FLOATING SLAB



MANHOLE AT TANGENT SECTION WITH FLOATING SLAB

TABLE 1				
MAIN TRACK DRAIN - INVERT DEPTH & PIPE SIZE				
STATIONS (SEE NOTE BELOW)	DEPTH-T/R TO PIPE INVERT		PIPE DIA. (INCHES)	
	FROM	TO	CIRCULAR TUNNEL	HORSESHOE TUNNEL
2	309 + 24	320 + 97	3'-7"	3'-7"
2	320 + 97	334 + 03	5'-7"	4'-10"
2	334 + 03	340 + 05	VARIES	VARIES
2	340 + 05	346 + 03	VARIES	VARIES
2	339 + 95	345 + 95.10 I.B.	VARIES	VARIES
2	346 + 03	387 + 44.50	3'-6"	3'-6"
2	345 + 95.10 I.B.	387 + 44.50 I.B.	3'-6"	3'-6"

SEE NOTE 2 ON M-200

NOTE: ALL STATIONS GIVEN ARE IN REFERENCE TO THE OUTBOUND TRACK UNLESS INDICATED OTHERWISE.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 R. J. House FEB 15 1980
 RESIDENT ENGINEER DATE

NOTES:
 1. FOR LEGEND AND GENERAL NOTES SEE DWG. M-1.
 2. SET TOP OF ALL DRAIN INLETS FLUSH W/ BOTTOM OF DRAINAGE SLOT.

DESIGNED	B.H. BENEDICT	8-9-72	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	A.W. GOWEN	10-10-72	5-95	FLOATING SLABS (TYPE 2) PLANS AND DETAILS	6-21-74	1 CHANGE BEGINNING OF MAIN TRACK DRAIN IN TABLE 1.
CHECKED	B.H. BENEDICT	12-22-72			12-2-77	2 RELOCATED 12" Ø MAIN TRACK DRAIN (PCO-23)
APPROVED	<i>[Signature]</i>	3-2-79			3-2-79	3 REV PER FIELD COND, AS-BUILT.



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

PARSONS ASSOCIATES & THE RALPH M. PARSONS COMPANY
 SECTION DESIGNER
 SUBMITTED BY: *[Signature]*

DE LEUW, CATHAR & COMPANY
 GENERAL ENGINEERING CONSULTANT

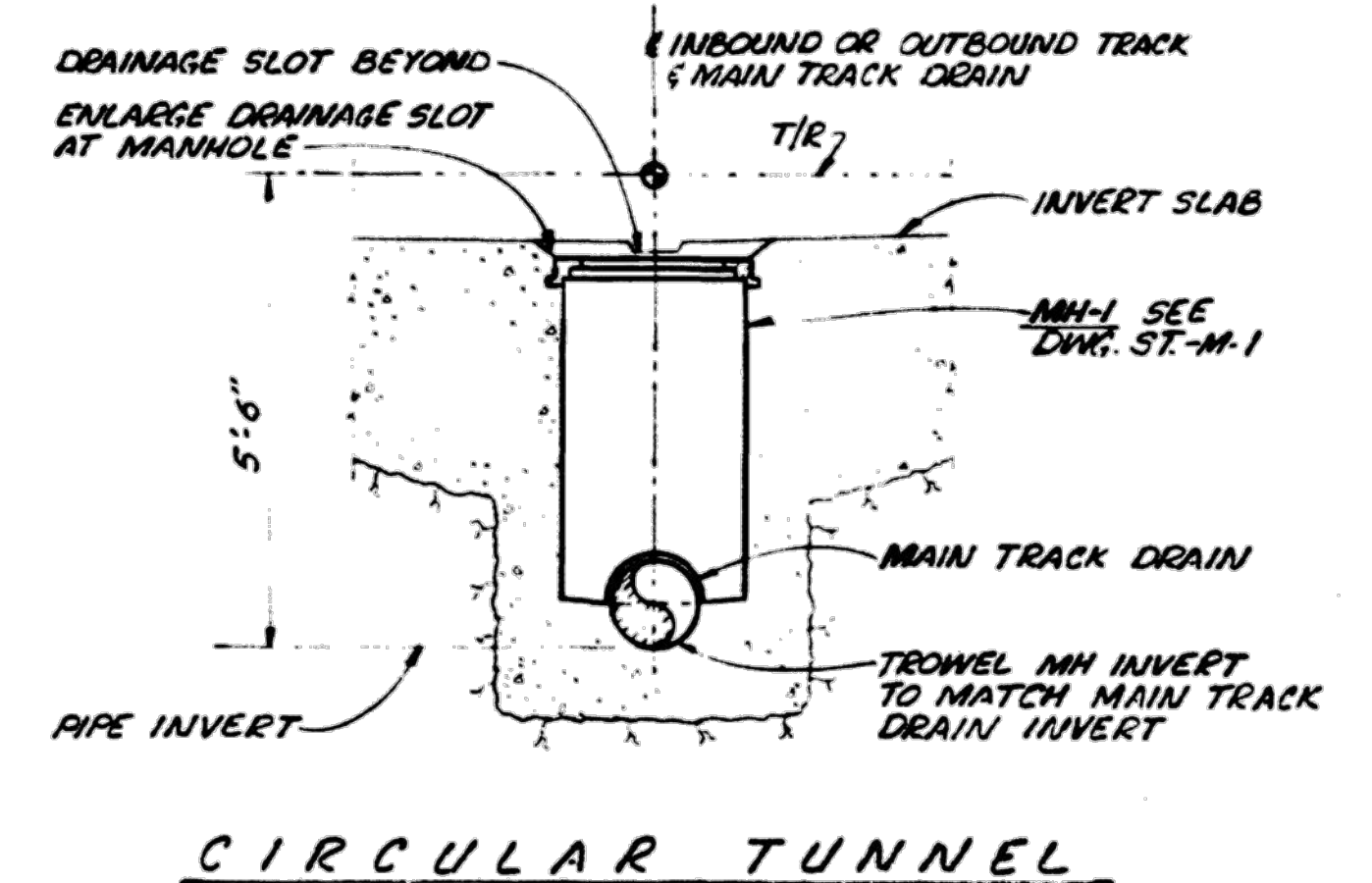
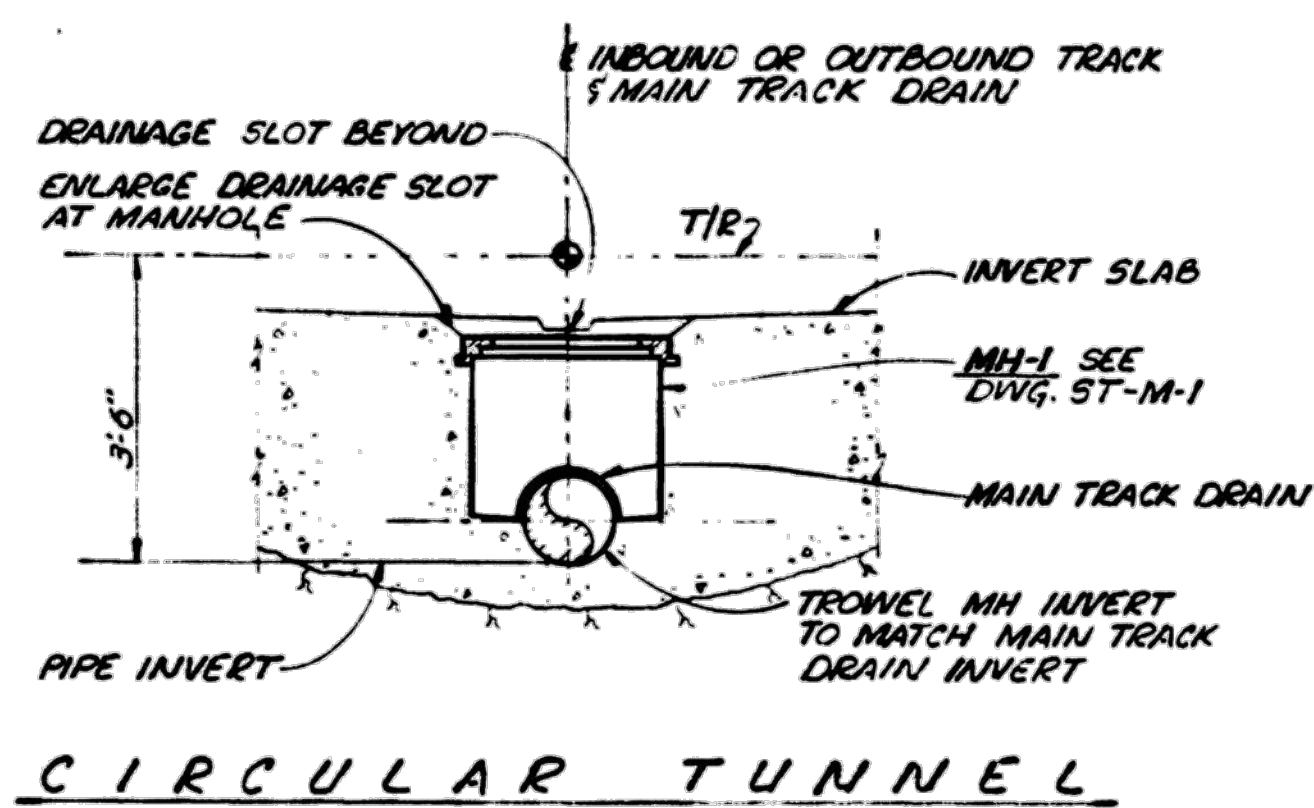
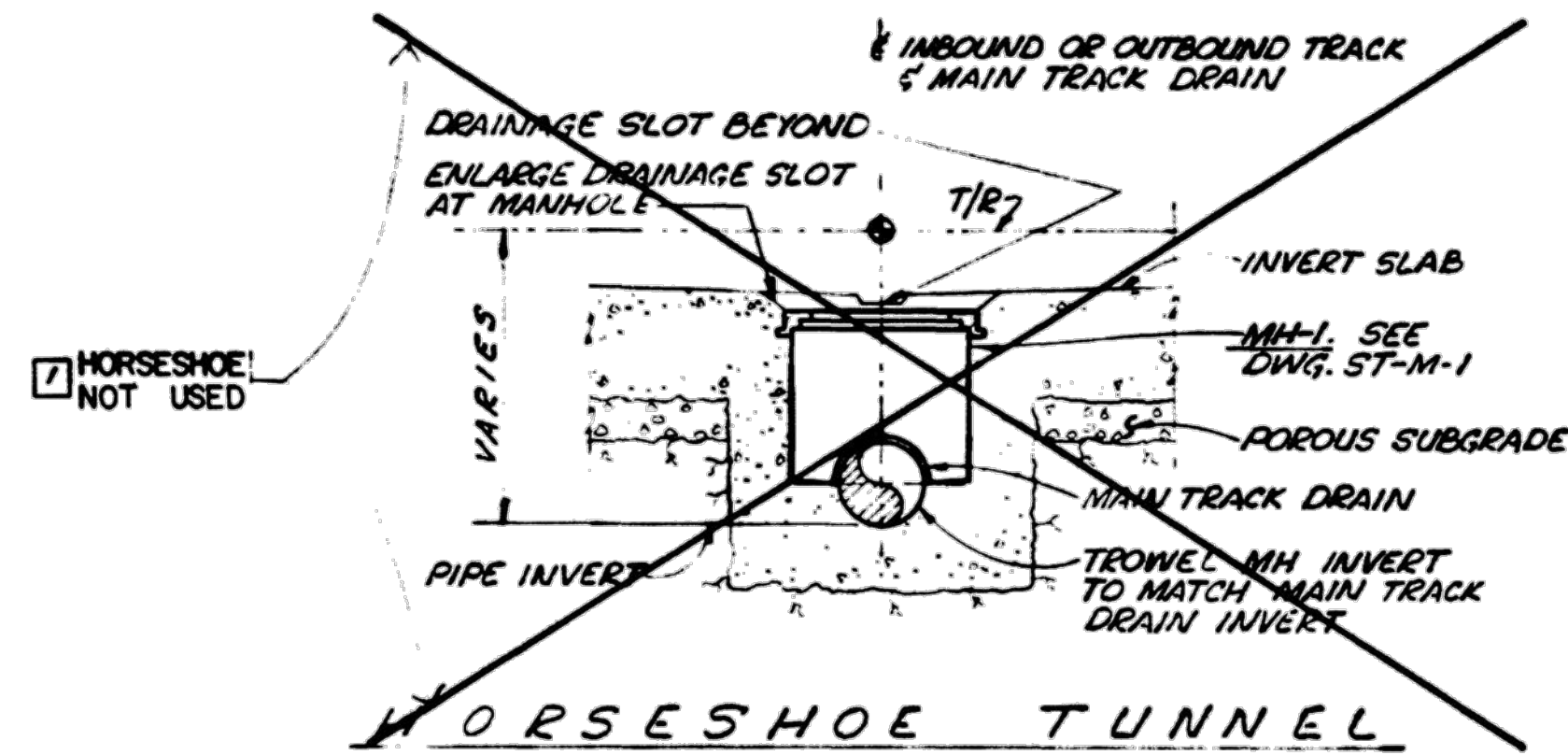
HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 APPROVED: *[Signature]*

ROCKVILLE ROUTE TRACK DRAINAGE TYPICAL SECTIONS

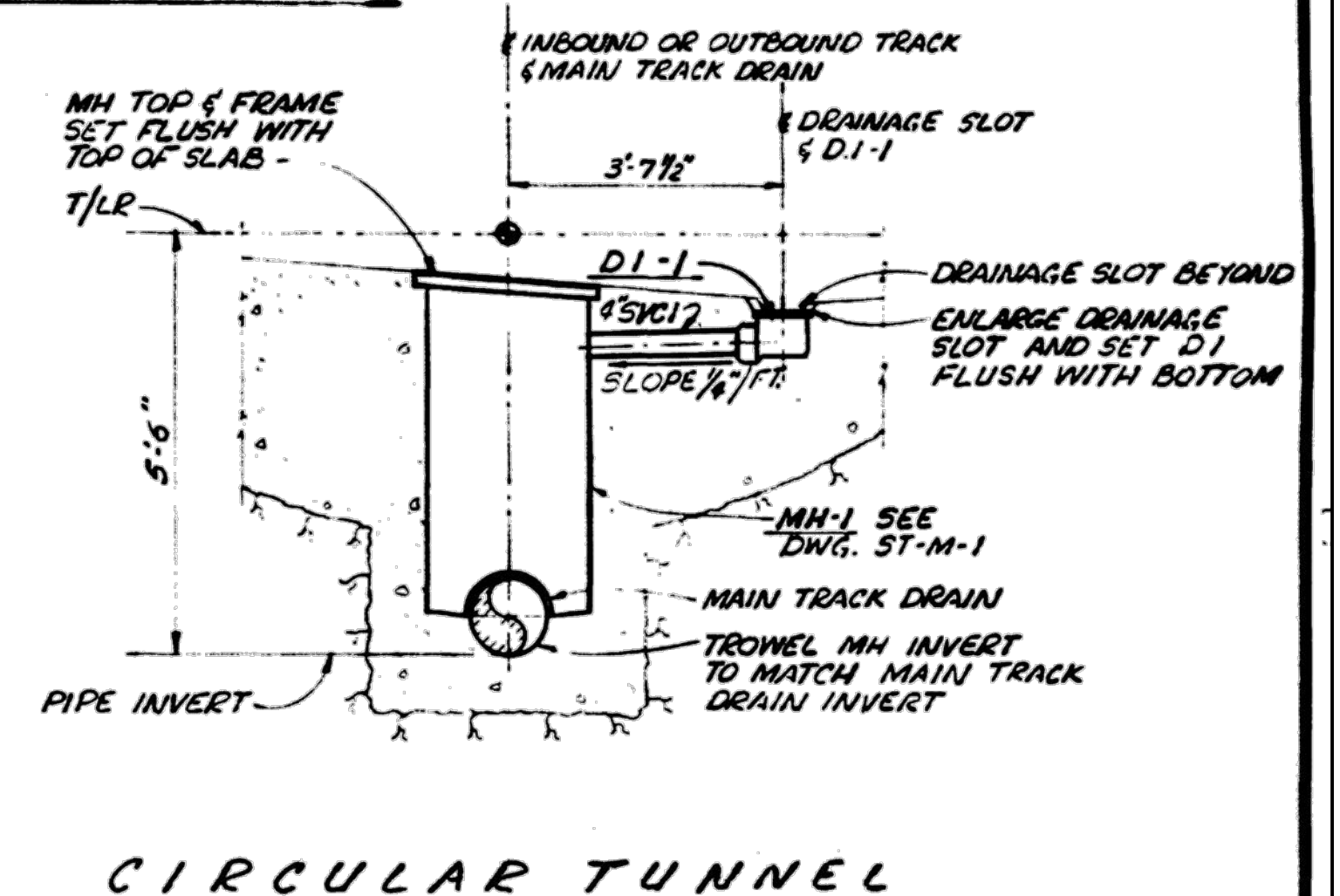
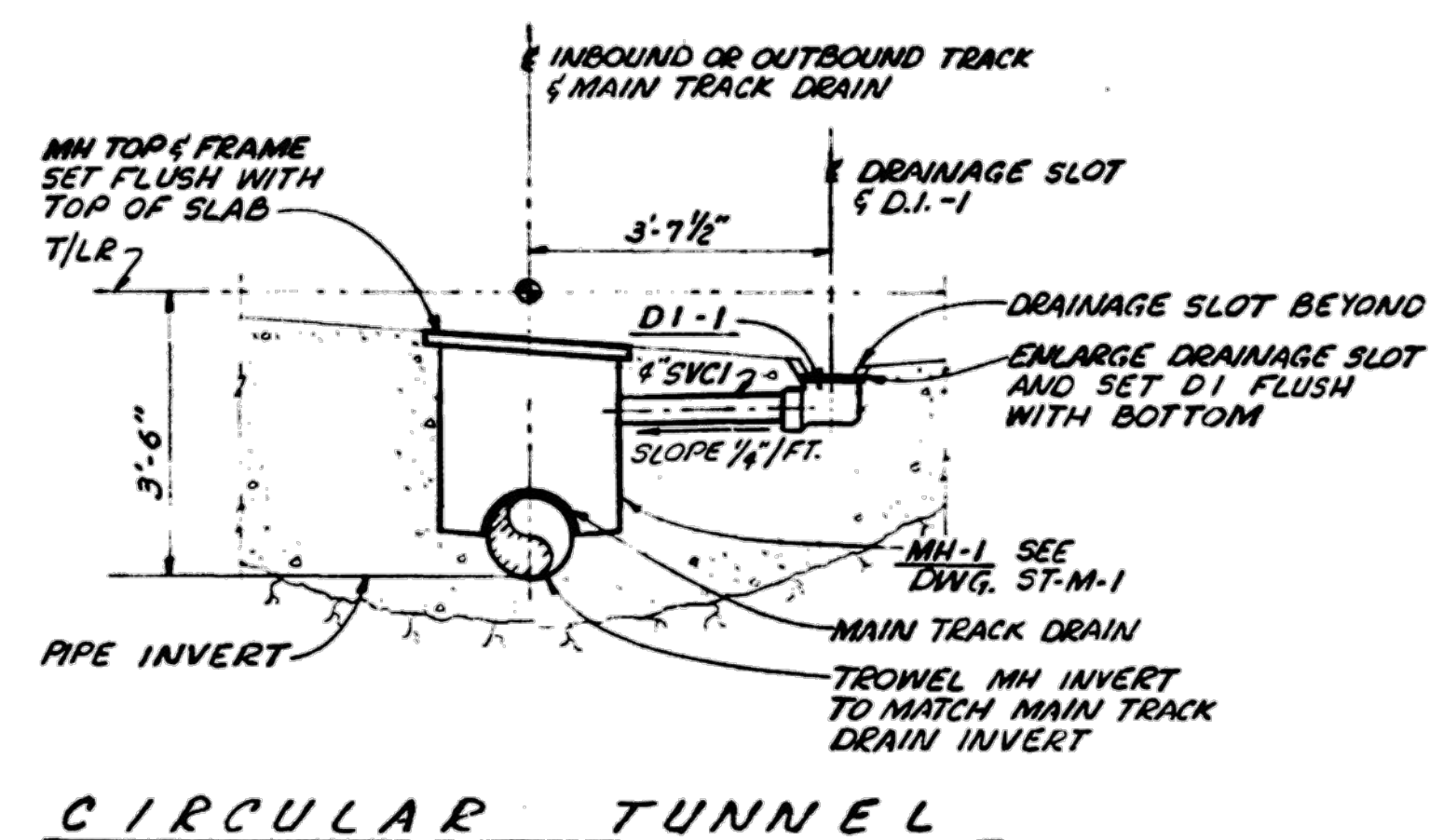
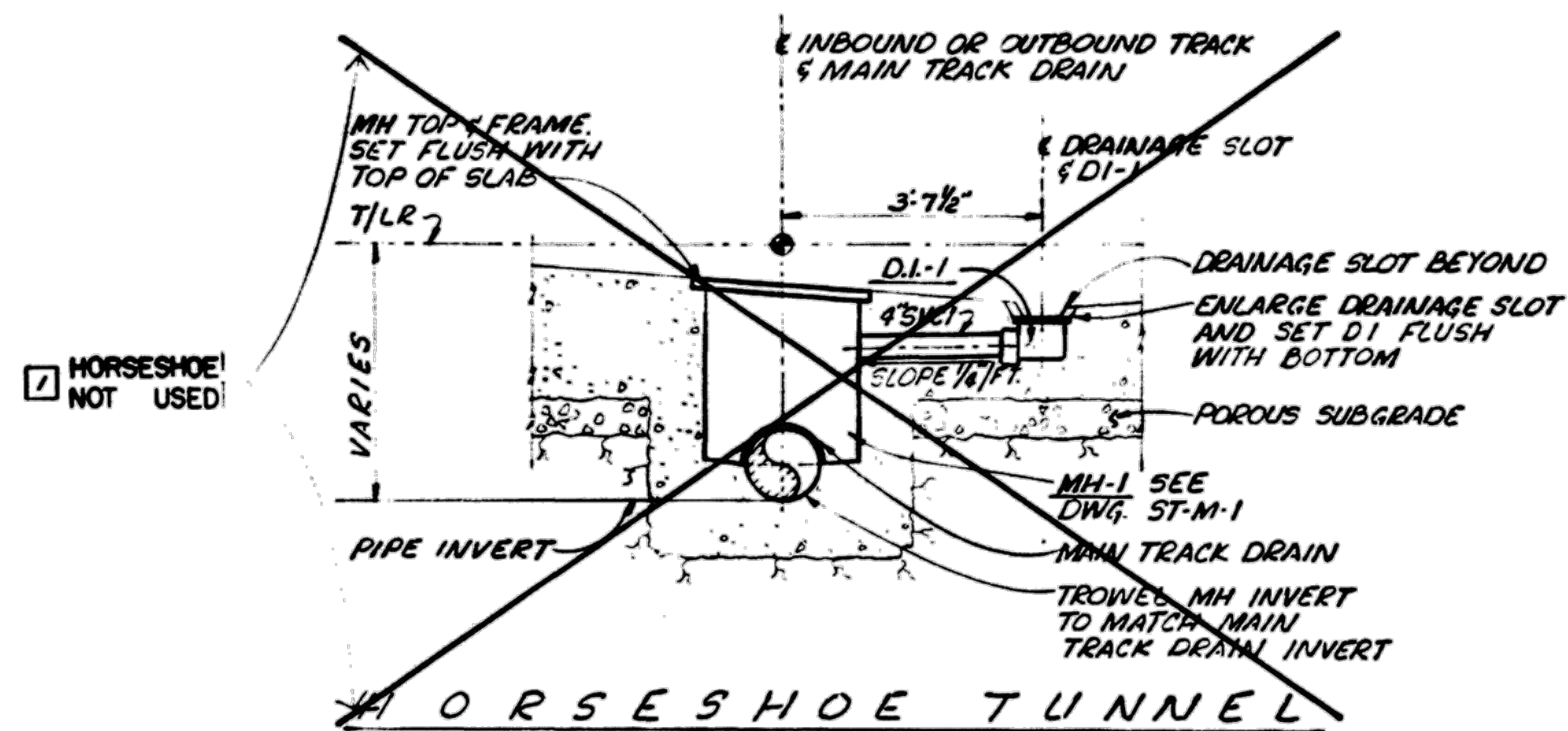
SCALE: NONE

DRAWING NO. A10 a-M-40

MI39-190



M A N H O L E AT T A N G E N T S E C T I O N



M A N H O L E AT S U P E R E L E V A T E D S E C T I O N

WASHINGTON METROPOLITAN
 AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 BY *R. J. Hesse* FEB 15 1980
 RESIDENT ENGINEER DATE

NOTE:
 1. FOR LEGEND AND GENERAL NOTES, SEE DWG. M-1

DESIGNED	AR. GOWEN	8-8-72	REFERENCE DRAWINGS		REVISIONS		
			NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	A. R. GOWEN	10-10-72	5-26	CAST IN PLACE CONCRETE LINING, TYPICAL TUNNEL TANGENT SECTIONS & DETAILS	12-20-79	THUY	1 REVISED PER FIELD CONDITION 'AS-BUILT'
CHECKED	B.M. BENEDICT	12-22-72					
APPROVED	<i>V. [Signature]</i>	3-1-73					



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

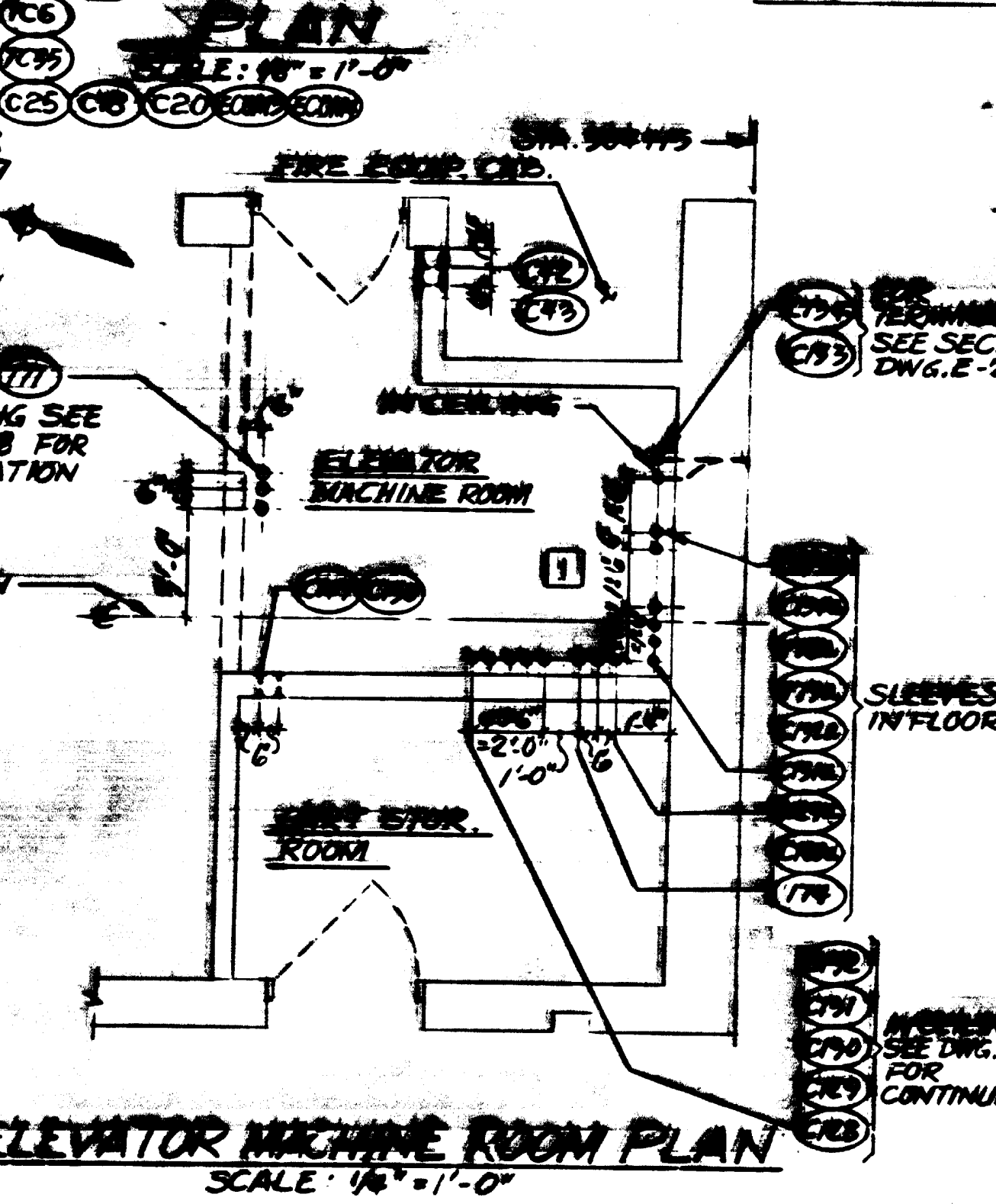
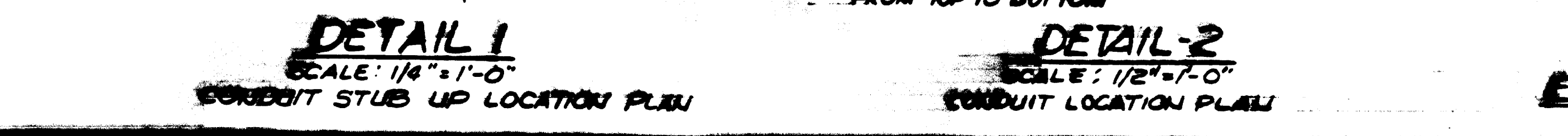
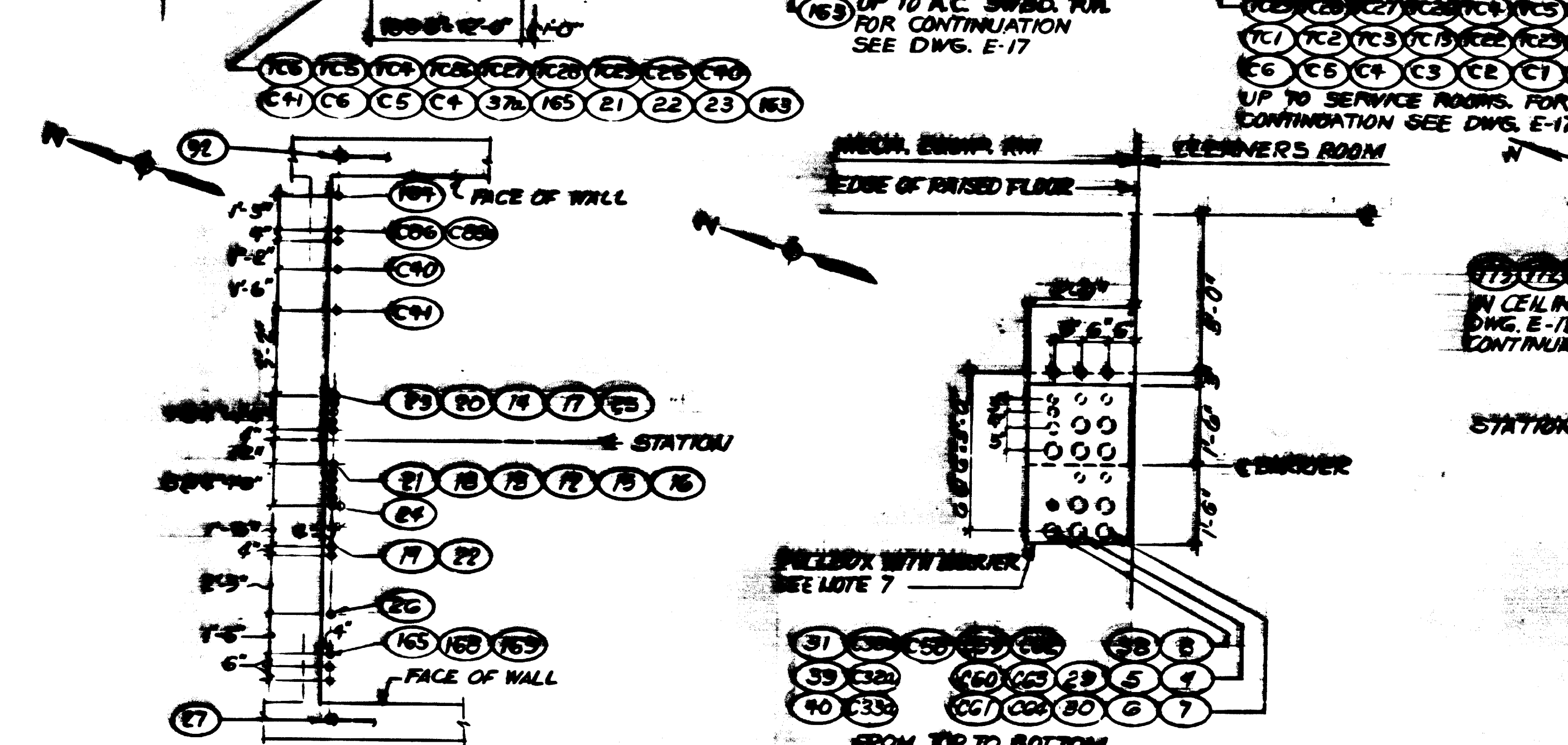
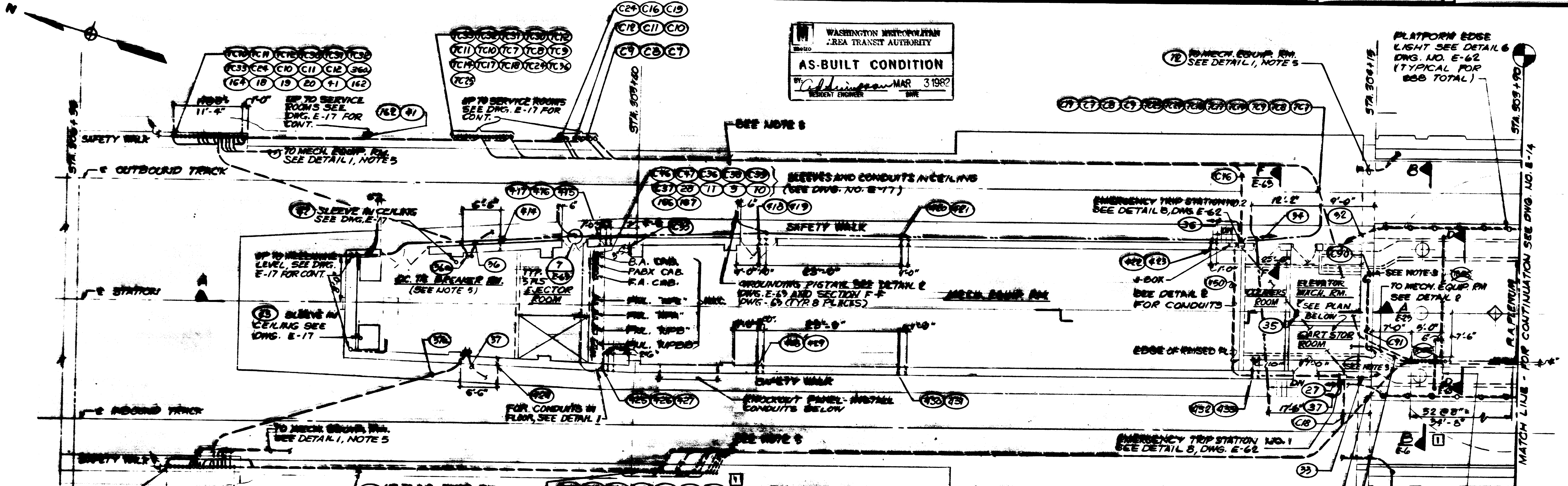
PARSONS ASSOCIATES
 &
 THE RALPH M. PARSONS COMPANY
 SECTION DESIGNER
 SUBMITTED BY *[Signature]*

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 APPROVED *[Signature]*

ROCKVILLE ROUTE
 TRACK DRAINAGE
 TYPICAL SECTIONS

SCALE: 1/2" = 1'-0"
 DRAWING NO. A10a-M-41
 M139-191

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 BY *Adrianne* MAR 3 1982
 RESIDENT ENGINEER DME



NOTES:

- SEE DWG. NO. E-8 FOR SYMBOLS AND ABBREVIATIONS.
- SEE DWG. NOS. E-27 THRU E-34 & E-68 FOR CONDUIT SCHEDULES.
- TERMINATE 6" ABOVE PLATFORM PER DETAIL 2, DWG. E-62. FOR CONTINUATION SEE DWG. E-18.
- UNLESS OTHERWISE NOTED ALL INTERCONNECTING CONDUITS FOR PLATFORM EDGE LIGHTS ARE 1" S.A.
- SEE DWG. NO. E-14 FOR TRACTION POWER CONDUITS IN TRACK AREA.
- SEE FOLLOWING DWGS. FOR CONTINUATION OF CONDUITS:
 DWG. E-14 (13, 14, 16, 17)

1. PULLBOX SHALL BE SCREEN COVER, 1" GAGE BARRIER AND ENCLOSURE, SYEMA TYPE 1

2. EXCEPT WHERE NOTED OTHERWISE ALL SLEEVES THRU WALLS SHALL BE LOCATED 8" BELOW CEILING.

3. FOR LOCATION OF CONDUIT AND SLEEVES IN CEILING, SEE DWG. E-17.

4. 6/2" x 1/2" UNDERFLOOR DUCT INSTALLED, EXTENDING FROM THE RETURN AIR RETURN TO TRACKSIDE SEE SECTION D-D, DWG. E-63, (M229-485)



DESIGNED BY	DATE	REFERENCE DRAWINGS	REVISIONS	DESCRIPTION
E. FOSTER	8-15-79	3-25 DOUBLE CROSSOVER PLAN & SECTION	1	DELETED CONDUITS (C35, C50, C79)
F. BEE	8-15-79	A-10 SERVICE ROOM & STATION PLANS-PLAT LEVEL	2	ADDED CONDUITS (E60M, E60M) P00 #18
J. BEE	5-18-81	M-27 NORTH SERVICE ROOMS-PLATFORM LEVEL PLANS	3	REV. PER 20-35, AS-BUILT

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

PARSONS ASSOCIATES

THE WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION ENGINEER

Adrianne

U.S. DEPARTMENT OF TRANSPORTATION

NO. 6228

DE LIEW, GORNER & COMPANY

GENERAL WORKING CONSULTANT

BOBBY WARD & ASSOCIATES

GENERAL MECHANICAL CONSULTANT

ROCKVILLE ROUTE

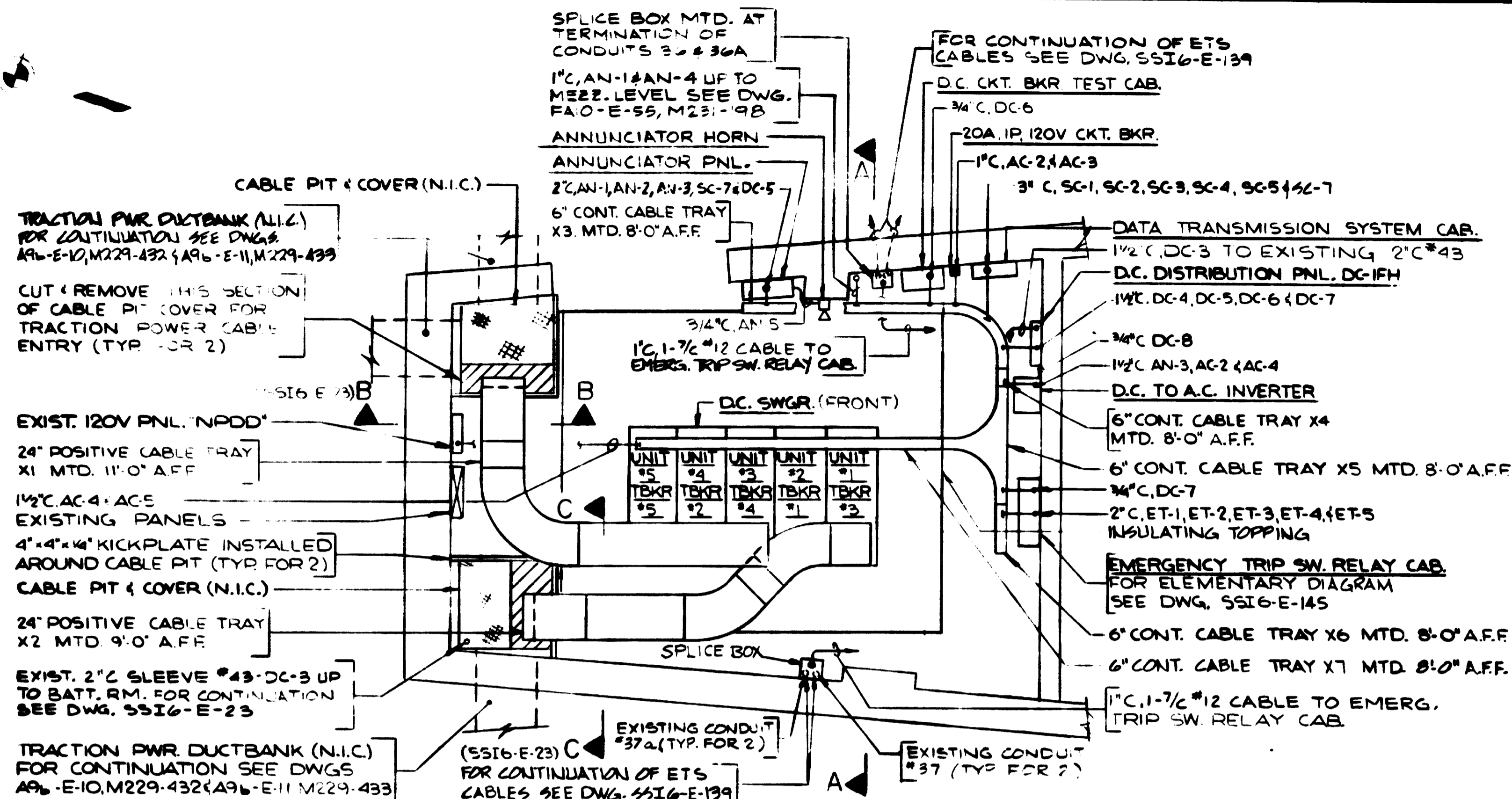
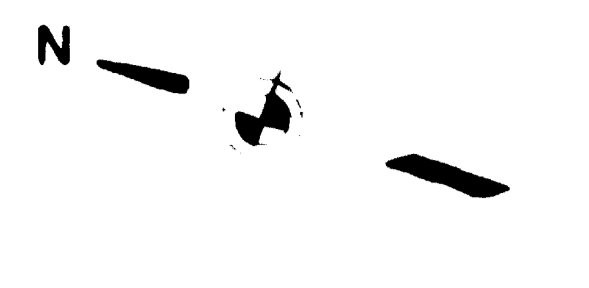
FRIENDSHIP HEIGHTS STATION

NORTH SERVICE ROOMS-PLATFORM LEVEL PLAN

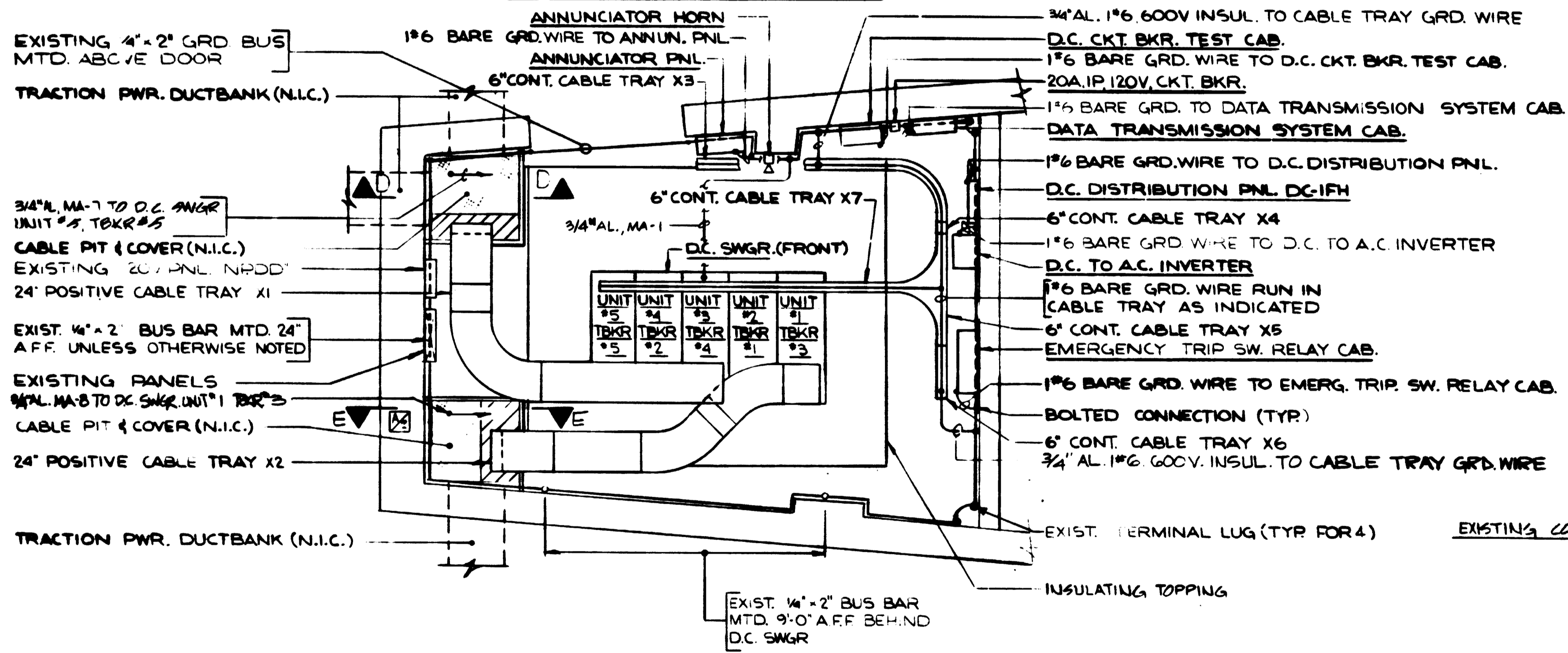
SCALE: 1/4" = 1'-0"

DRAWING NO. A90-E-12

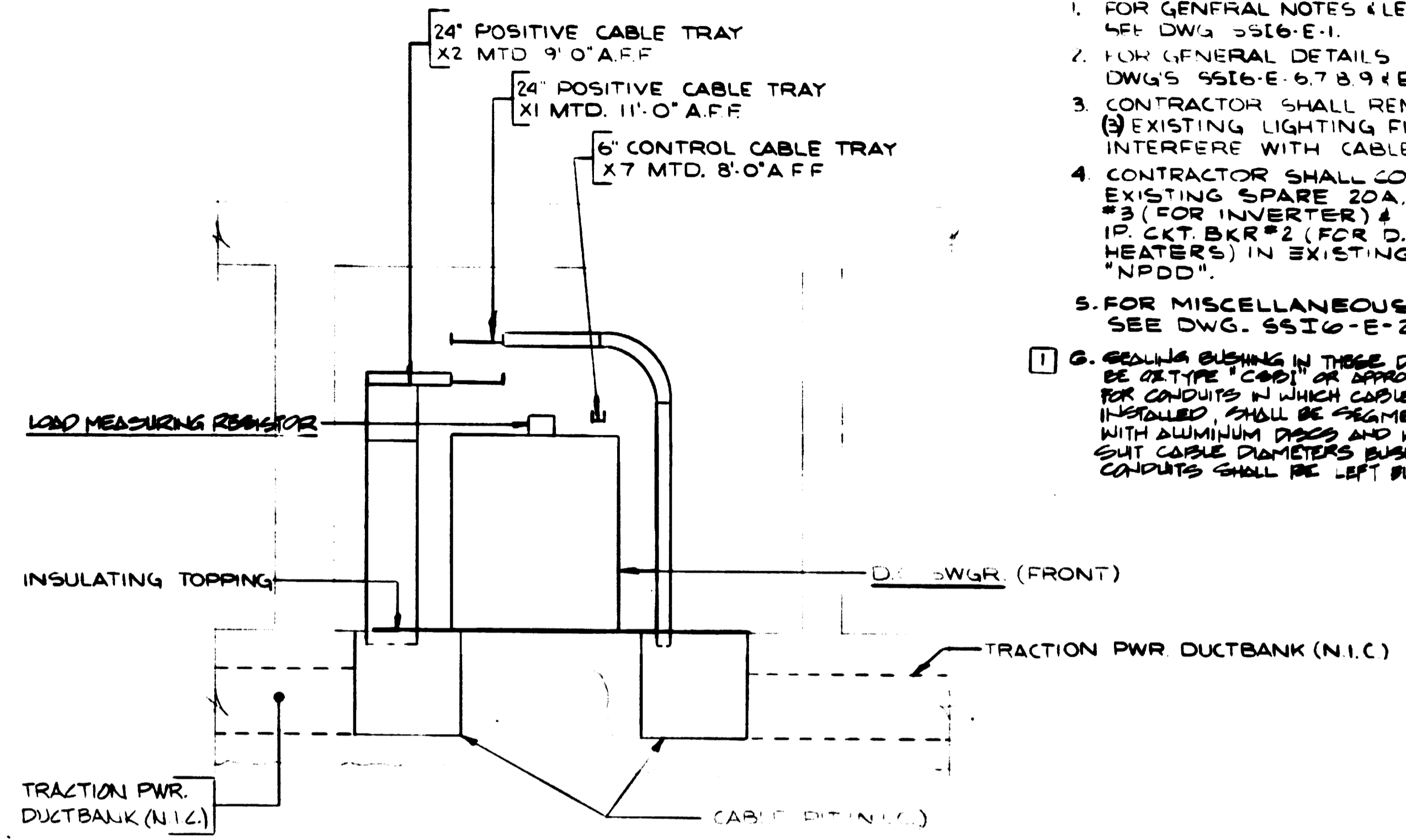
M229-434



CONDUIT & CABLE TRAY PLAN

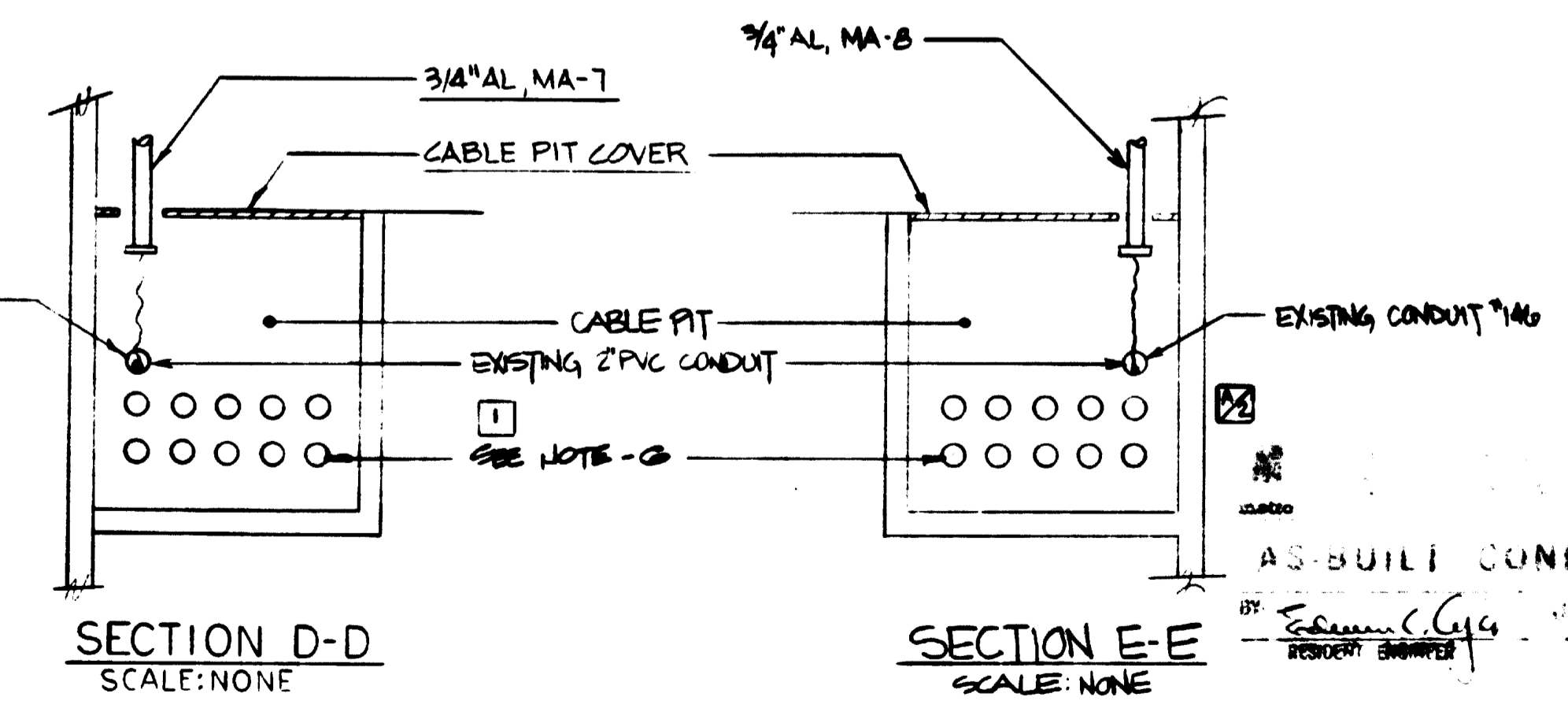


GROUNDING PLAN



SECTION A-A
SCALE: 1/4" = 1'-0"

NO. DC-1FH							LOCATION: TIE BREAKER STATION		
125 V, D.C.		2 W 100 A MAINS,		100 A, 2P MAIN			10000 A AIC BKRS. @ 125 V, D.C. SURFACE MTG. — CKT. BKR.		
DESIGNATION	LOAD WATTS	NO. CTS.	NO. TRIP	NO. CTK. BKR.	NO. TRIP	LOAD WATTS	DESIGNATION	LOAD WATTS	NO. CTS.
D.C. SWGR. CONT. PWR.	—	—	45	1	—	—	ANNUNCIATOR PNL.	—	—
D.C. CKT. BKR. TEST CAB.	—	—	30	3	4	30	EMERG. TRIP SW. RELAY CAB.	—	—
D.C. TO A.C. INVERTER	—	—	15	5	6	15	SPARE	—	—
SPARE	—	—	15	7	8	15	SPARE	—	—

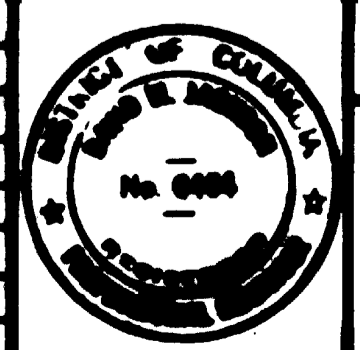


SECTION D-D
SCALE: NONE

SECTION E-E
SCALE: NONE

- NOTES:**
- FOR GENERAL NOTES & LEGEND SEE DWG. SSI6-E-1.
 - FOR GENERAL DETAILS SEE DWG'S SSI6-E-6, 7, 8, 9 & E-10.
 - CONTRACTOR SHALL REMOVE (RELOCATE) EXISTING LIGHTING FIXTURES THAT INTERFERE WITH CABLE TRAYS.
 - CONTRACTOR SHALL CONNECT TO EXISTING SPARE 20A, 1P CKT. BKR. #3 (FOR INVERTER) & SPARE 20A, 1P CKT. BKR. #2 (FOR D.C. SWGR. HEATERS) IN EXISTING 120V PNL. "NPDD".
 - FOR MISCELLANEOUS DETAILS SEE DWG. SSI6-E-25.
 - SEALING BUSHING IN THESE DUCTBANKS SHALL BE OF TYPE "COOL" OR APPROVED EQUAL BUSHING FOR CONDUITS IN WHICH CABLES ARE TO BE INSTALLED. SHALL BE SEGMENTAL DESIGN WITH ALUMINUM DISCS AND WITH HOLES TO SUIT CABLE DIAMETERS BUSHING FOR UNUSED CONDUITS SHALL BE LEFT BLANK.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
JFF	6/16/81			4-13-81	JFF ADDED SECTION E-E
DRAWN	6/12/81			11-16-81	MD CABLE MA-8
CHECKED	6/16/81				1) REV. PER PCD. 27, 28, BUILT
APPROVED	2/25/82				



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

JACKSON & MORELAND
STAGE DESIGNER
Paul W. Madison

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

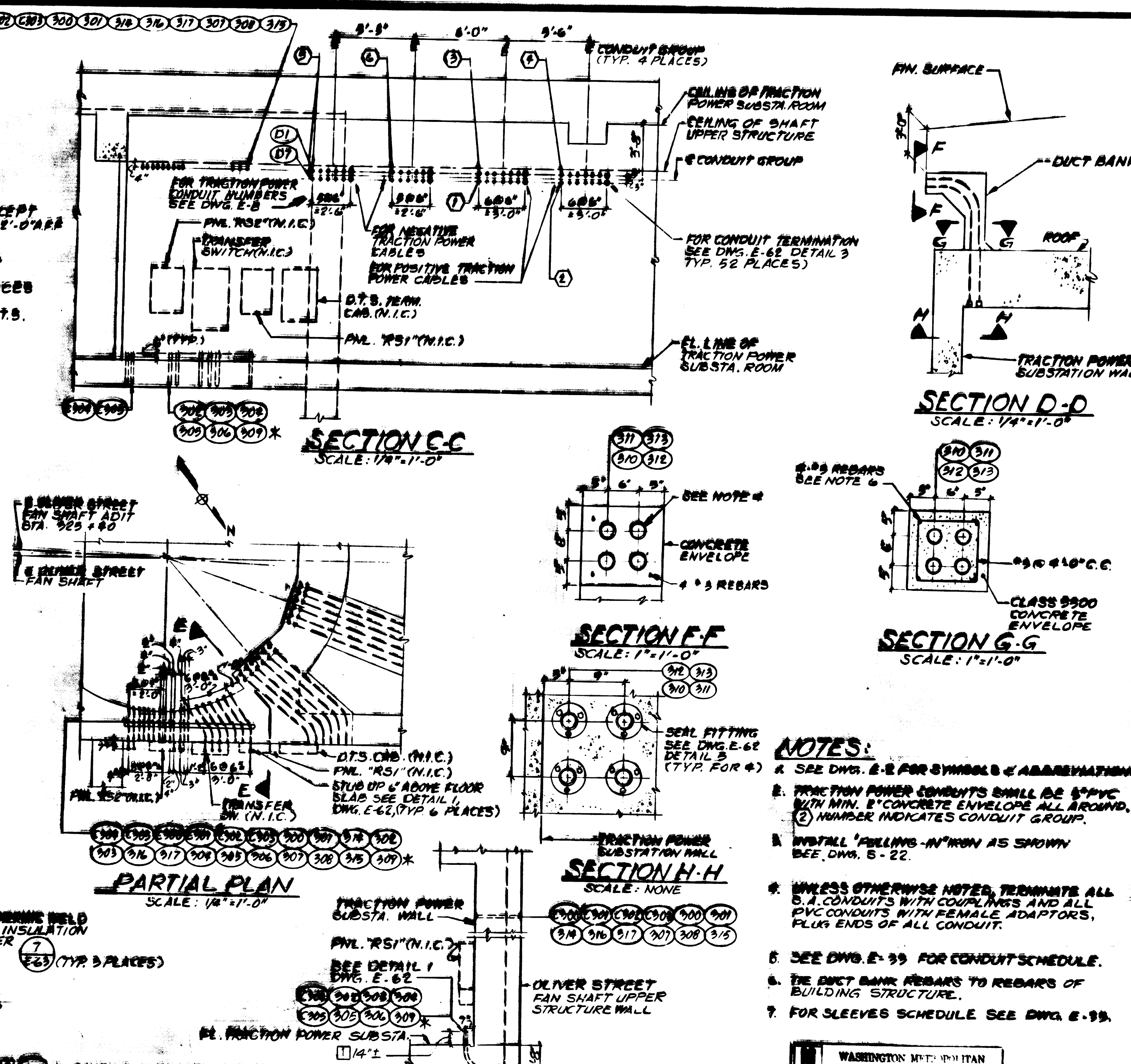
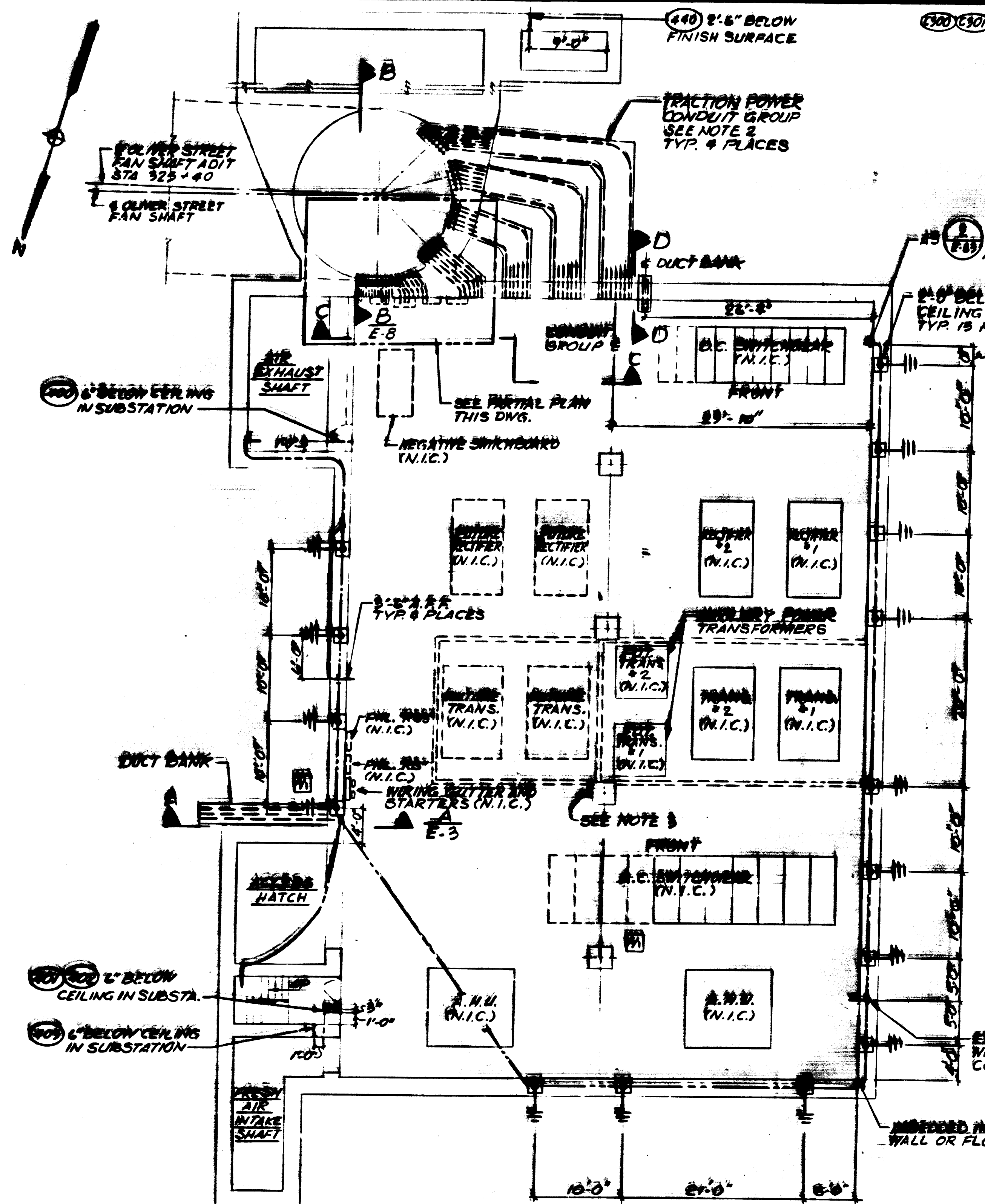
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: *Paul W. Madison* APPROVED: *Paul W. Madison*

SUBSTATION INSTALLATION SSI-6
FRIENDSHIP HTS. TIE BREAKER STATION
CONDUIT & CABLE TRAY & GROUNDING

SCALE: 1/4" = 1'-0"

DRAWING NO. **SSI6-E-21** M427-21



- NOTES:**
- SEE DWG. E-2 FOR SYMBOLS & ABBREVIATIONS.
 - TRACTION POWER CONDUITS SHALL BE 5" PVC WITH MIN. 8" CONCRETE ENVELOPE ALL AROUND. (2) NUMBER INDICATES CONDUIT GROUP.
 - INSTALL 'FELLING-IN' IRON AS SHOWN SEE DWG. S-22.
 - UNLESS OTHERWISE NOTED, TERMINATE ALL S.A. CONDUITS WITH COUPLERS AND ALL PVC CONDUITS WITH FEMALE ADAPTORS, PLUG ENDS OF ALL CONDUIT.
 - SEE DWG. E-39 FOR CONDUIT SCHEDULE.
 - THE DUCT BANK REBARS TO REBARS OF BUILDING STRUCTURE.
 - FOR SLEEVES SCHEDULE SEE DWG. E-39.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
MAR 3 1999

DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	BY	REVISIONS
DESIGNED	4-13-77	S-18	OLIVER ST. TRACTION PWR SUBSTA. & FAN SHAFT PLAN	4-22-77	BA	1. REVISED & RELOCATED SERVICE
DRAWN	4-13-77	S-21, S-22	OLIVER ST. TRACTION PWR SUBSTA. & FAN SHAFT - SECTIONS & DETAILS	4-8-81	BAB	1. REV PER FIELD COND. AS-BUILT.
CHECKED	4-20-75	M-15	OLIVER ST TRACTION PWR SUBSTA. PLAN & SECTIONS	-	-	2. REV PER 120.45, AS-BUILT.
APPROVED	7/16/81					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

PARSONS ASSOCIATES
THE WALTON PARSONS COMPANY
SECTION ENGINEER

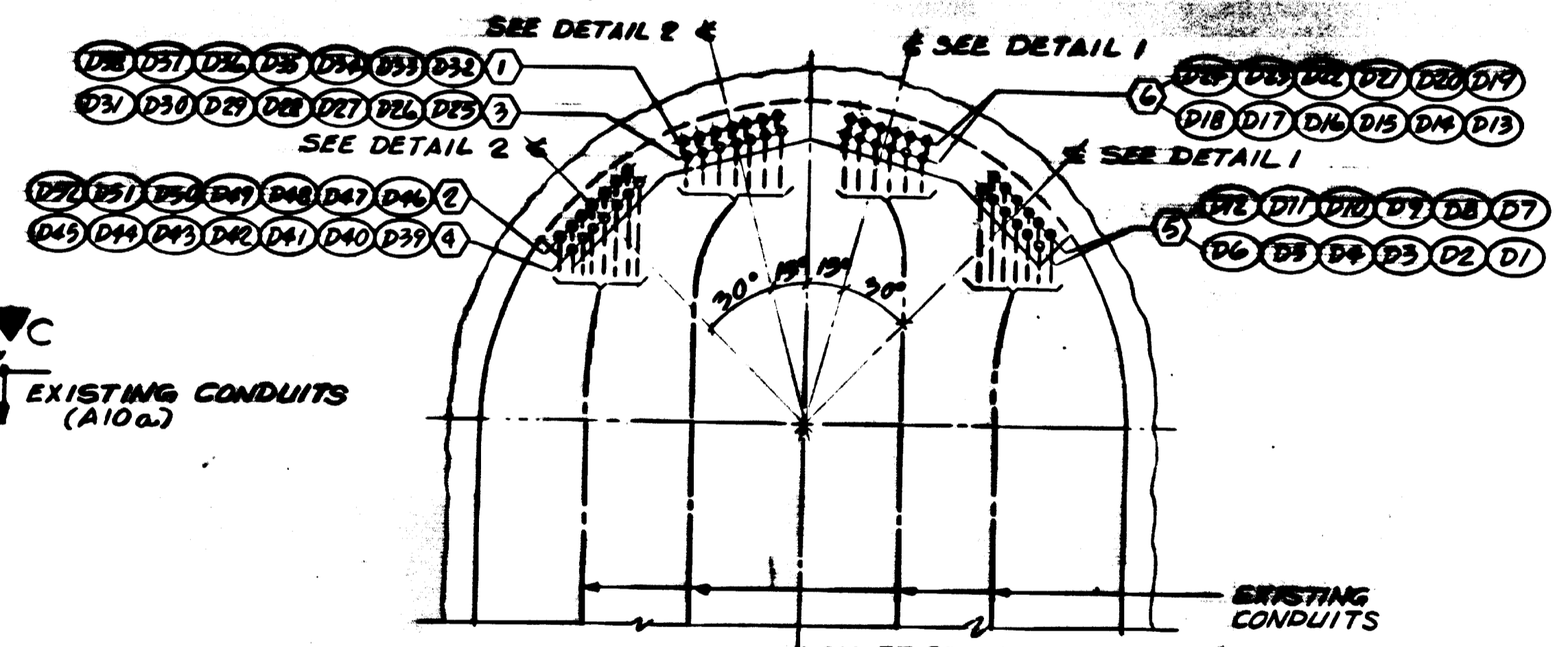
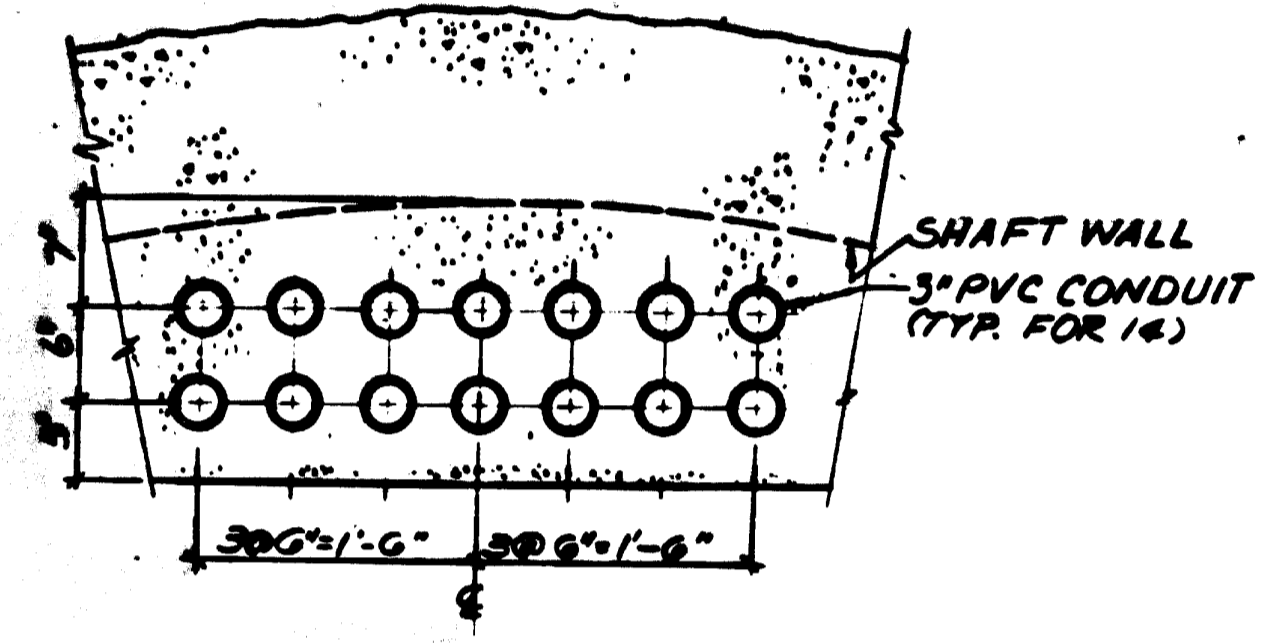
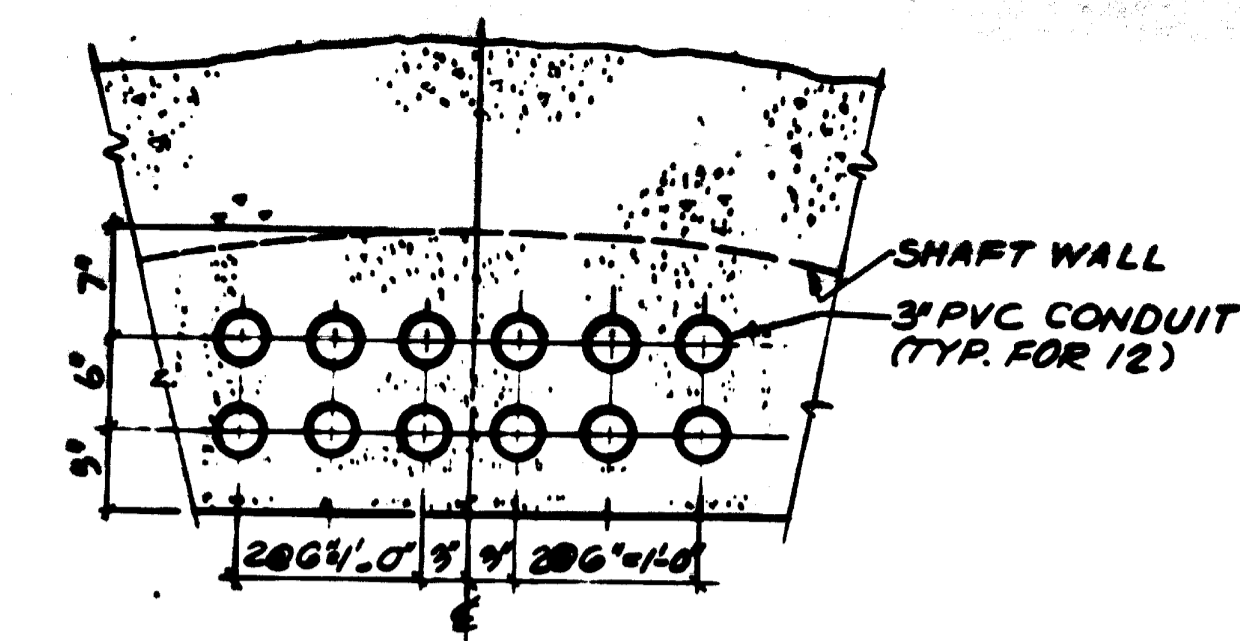
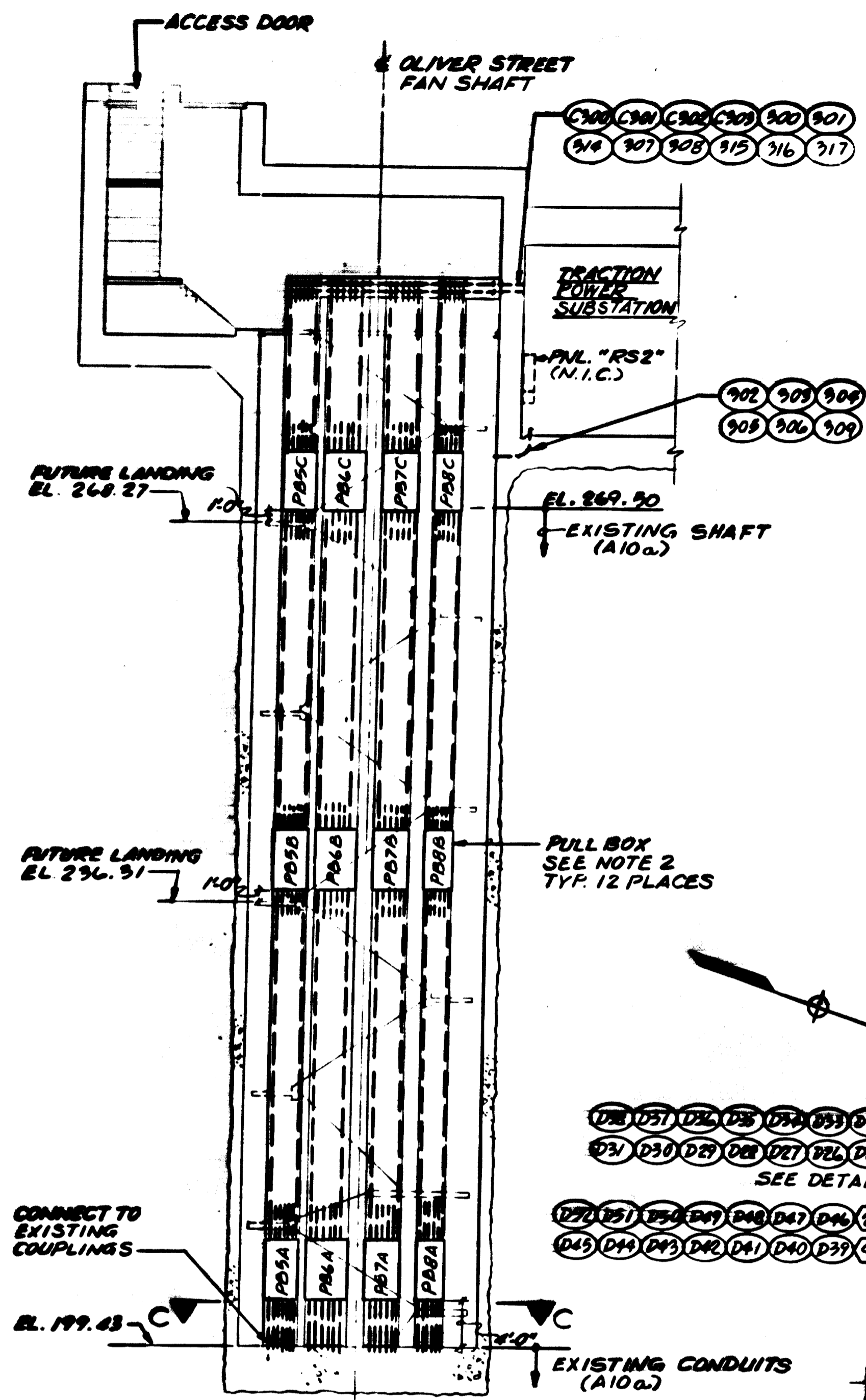
DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

WARRY WEAVER & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED BY: *Stephen J. Murray*

ROCKVILLE ROUTE
OLIVER ST. TRACTION POWER SUBSTATION & FAN SHAFT PLANS AND SECTIONS

SCALE: 1" = 1'-0" 10 2 4 6 8 10
DRAWING NO. 199-E-7
DATE: MAR 3 1999



SECTION B-B
SCALE: 1/8"=1'-0"
E-7

SECTION C-C
SCALE: 1/4"=1'-0"

- NOTES:**
1. SEE DWG. E-2 FOR SYMBOLS & ABBREVIATIONS.
 2. SEE DWG. E-64 FOR PULLBOX DETAILS.
 3. (2) NUMBER INDICATES CONDUIT GROUP.
 4. SEE DWG. E-73 FOR CONDUIT SCHEDULE.

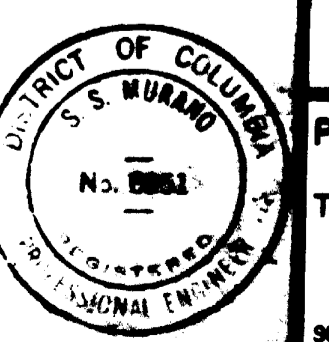
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

AS-BUILT CONDITION

RESIDENT ENGINEER

DESIGNED	M. PEIERSTEIN	8-15-74
DRAWN	F. MAR	8-19-74
CHECKED	L. ABRAHAM	9-17-75
APPROVED	[Signature]	9/21/75

REFERENCE DRAWINGS		REVISIONS		
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

PARSONS ASSOCIATES
THE RALPH W. PARSONS COMPANY
SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

FERRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

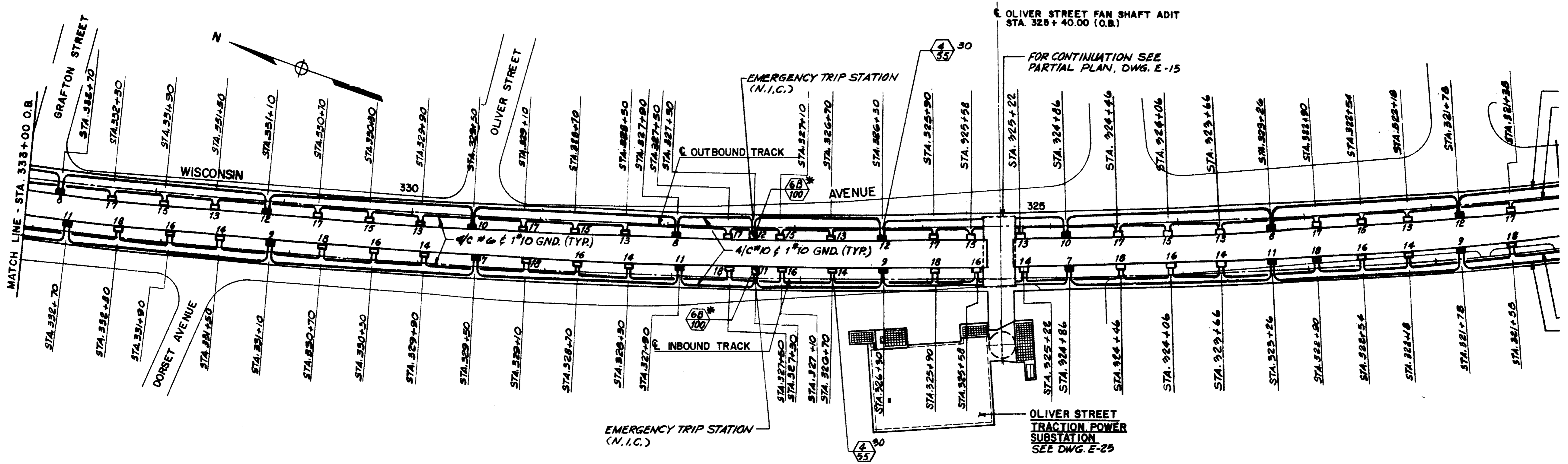
SUBMITTED BY: [Signature]

APPROVED: [Signature]

ROCKVILLE ROUTE
OLIVER STREET FAN SHAFT
SECTIONS AND DETAILS

SCALE: 1/8" = 1'-0" 10 2 4 6 8 10 AND AS NOTED

DRAWING NO. A9b-E-8 M229-430

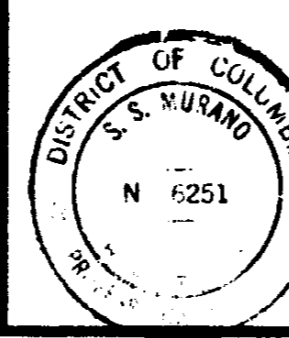


LIGHTING PLAN

NOTE:
1. SEE DWG. E-3 FOR GENERAL NOT

E-25	OLIVER ST. TRACTION PWR SUBSTA. LIGHTING AND PWR. PLAN AND SECTIONS
E-15	TUNNEL POWER PLANS

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
M.FEUERSTEIN	3-5-73	S-5	OLIVER STREET FAN SHAFT PLANS			
F. MAR	2-21-73	A-5	OLIVER STREET FAN SHAFT PLANS & SECTIONS			
L. ABRAHAM	10-14-76	A-6	OLIVER STREET TRACTION POWER SUBSTATION PLANS AND STATIONS			
		M-16	OLIVER STREET FAN SHAFT PLANS & SECTIONS			
		E-7	TUNNEL LIGHTING PLAN			



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

PARSONS ASSOCIATES
THE RALPH M. PARSONS COMPANY
SECTION DESIGNER

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

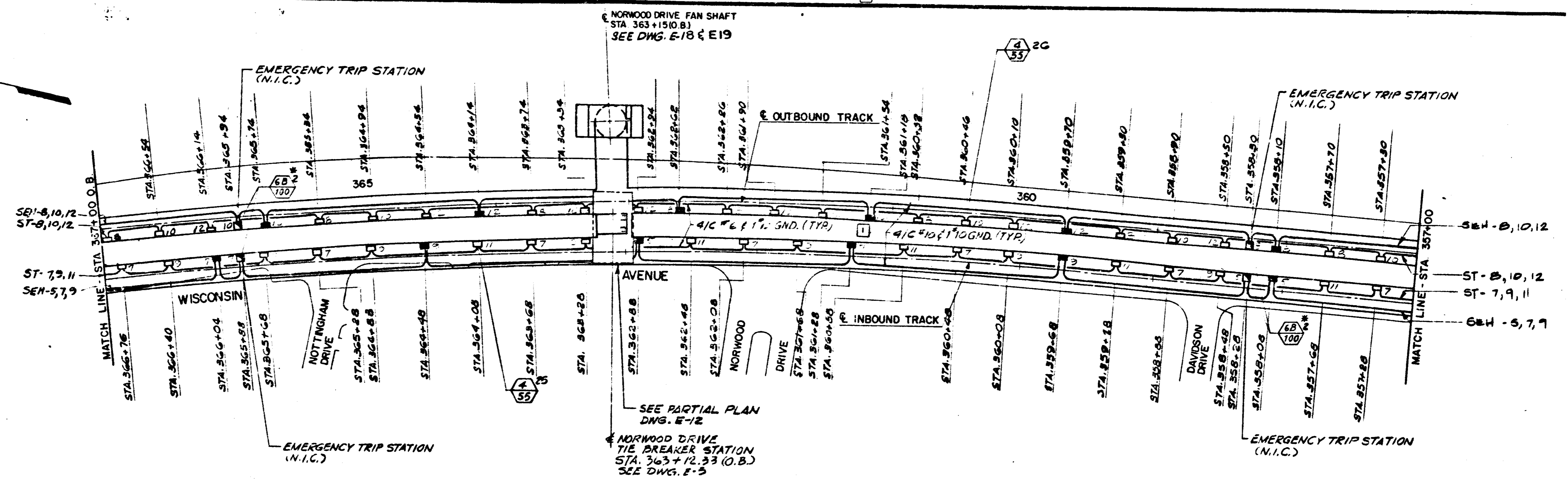
APPROVED: *Robert J. Wilman*

M-181

ROCKVILLE ROUTE
TUNNEL LIGHTING PLAN
STA. 321+00 TO STA. 333+00

DRAWING NO.
FAIO-E-7

SCALE: 1" = 40'



LIGHTING PLAN

NOTE:
1. SEE DWG. E-3 FOR GENERAL NOTES.

E-19	NORWOOD DR. FAN SHAFT LTG. PLANS & SECTIONS
E-18	NORWOOD DR. FAN SHAFT PWR PLANS & ON-LINE DIAG.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
M. FEUERSTEIN	2-7-72	S-2	NORWOOD DR. FAN SHAFT PLANS AND SECTIONS	5-18-81	GENERAL REVISION PER PCO #1
F. MAR	2-15-73	A-3	NORWOOD DR. FAN SHAFT & BRADLEY LANE TIE-BREAKER STATION - PLANS AND SECTIONS		
L. ABRAHAM	10-16-75	M-13	NORWOOD DR. FAN SHAFT PLANS AND SECTIONS		
	5-7-	E-5	TUNNEL LIGHTING PLANS & DETAILS		
		E-12	TUNNEL POWER PLAN		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

PARSONS ASSOCIATES
THE RALPH W. PARSONS COMPANY
SECTION DESIGNER

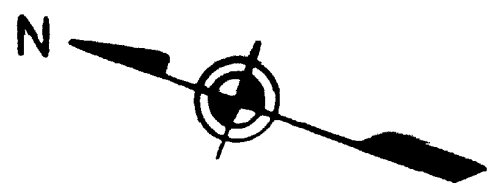
DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

DESIGNED BY: *Richard S. Hester*
APPROVED: *Robert J. Hester*

M-178 ROCKVILLE ROUTE
TUNNEL LIGHTING PLAN & DETAILS
STA. 357+00 TO STA. 367+00

SCALE: 1" = 40'
DRAWING NO. **FA10-E-4** M2:



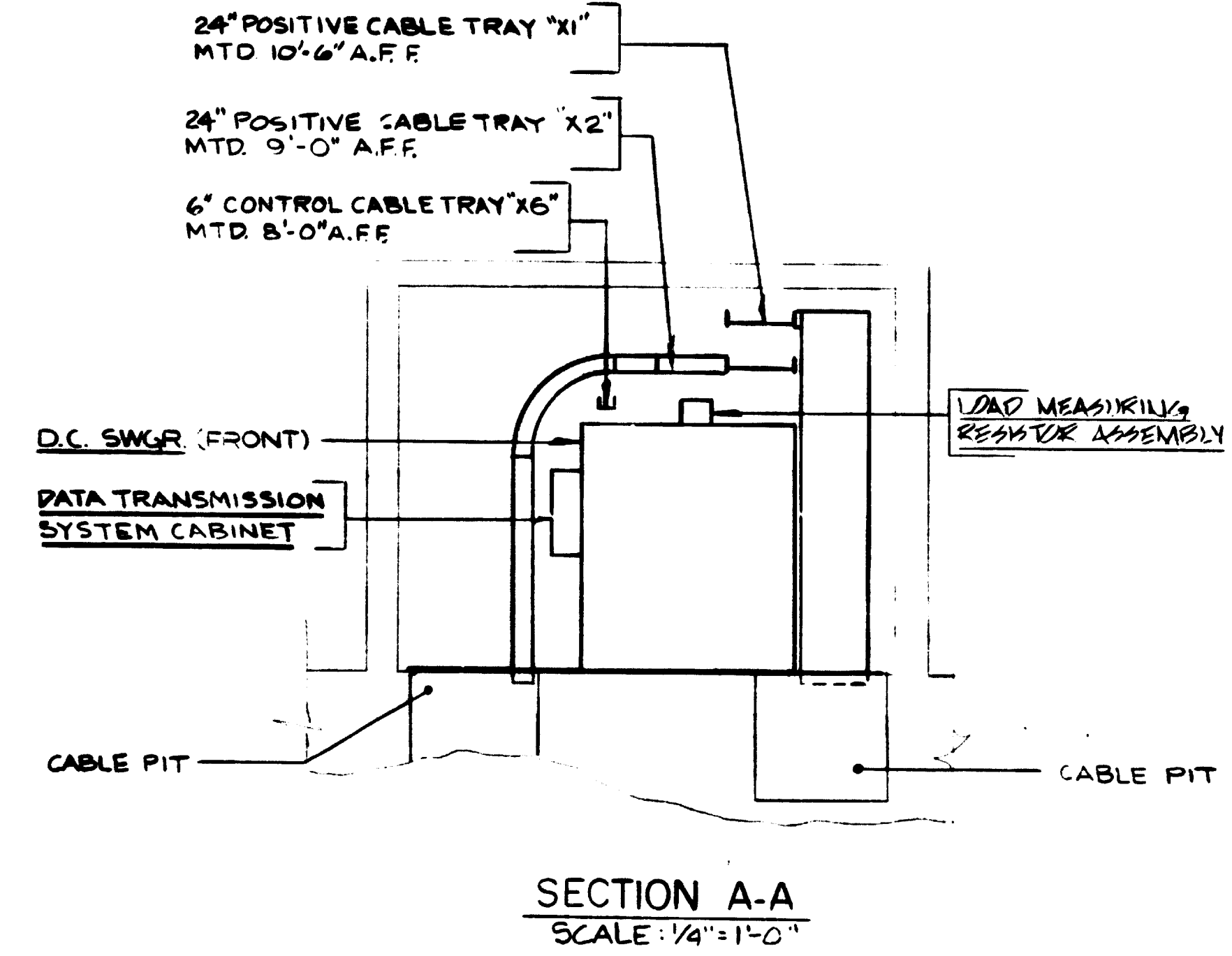
SPLICE BOX MTD. 10'-0" A.F.F.
FOR CONTINUATION OF CONDUITS
SEE DWG. SSI6-E-139 (TYP FOR 2)

EXISTING 480V PNL. "NPC"
3/4" C. AC-1
3/4" C. AN-1
EXISTING TRANSFORMER NO. 23
2" C. AN-2 AN-3 SC-7 & DC-5
6" CONTROL CABLE TRAY
X5 MTD. 8'-0" A.F.F.

1/2" C. AC-4 & AC-5
EXISTING 120V PNL. "NPCC"
EXISTING LOUVER (N.I.C.)

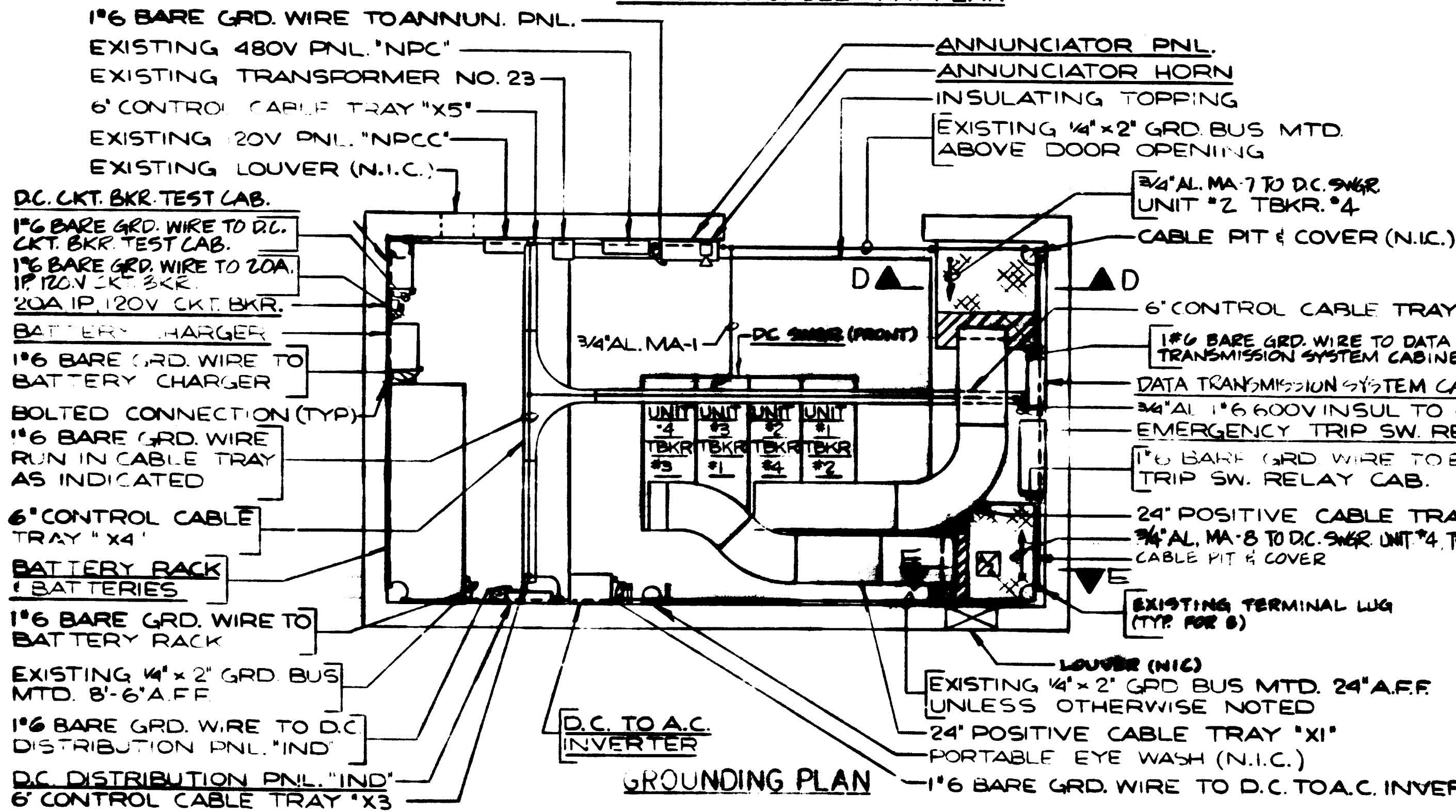
3/4" C. AC-5
ANNUNCIATOR HORN
MTD. 7'-0" A.F.F.
ANNUNCIATOR PNL.
1" C. 7/16" I.D. THROUGH EXISTING
SLEEVES TO EMERGENCY
TRIP SW. RELAY CAB.
H.O.A. SELECTOR SW. SEE NOTE 8
INSULATING TOPPING
4'-4" x 1/4" KICKPLATE INSTALLED
AROUND CABLE PIT (TYP FOR 2)
24" POSITIVE CABLE TRAY
X2 MTD. 9'-0" A.F.F.
CABLE PIT & COVER
B (SSI6-33)
3" C. SC-1, SC-2, SC-3, SC-4 & SC-7
DATA TRANSMISSION SYSTEM CABINET
2" C. ET-1, ET-2, ET-3, ET-4
3/4" C. DC-7
EMERGENCY TRIP SW. RELAY CAB.
FOR ELEMENTARY DIAGRAM
SEE DWG. SSI6-E-146
CABLE PIT & COVER
CUT & REMOVE THIS SECTION OF
CABLE PIT COVER FOR TRACTION
POWER CABLE ENTRY (TYP FOR 2)
LOUVER (N.I.C.)
24" POSITIVE CABLE TRAY
X1 MTD. 10'-6" A.F.F.
1" C. 7/16" I.D. TO EMER. TRIP SW. RELAY CAB.
SPLICE BOX MTD. 10'-0" A.F.F.

DC. CKT. BKR. TEST CAB.
3/4" C. DC-6
1" C. AC-2 & AC-3
20A. 1P. 120V. CKT. BKR.
1" C. AN-1
3/4" C. AN-1
BATTERY CHARGER
3/4" C. DC-1
6" CONTROL CABLE TRAY
X4 MTD. 8'-0" A.F.F.
BATTERY RACK & BATTERIES
6" CONTROL CABLE TRAY
X3 MTD. 8'-0" A.F.F.
D.C. DISTRIBUTION PNL. "DC-IND"
1" C. DC-3
1/2" C. DC-4, DC-5 & DC-7
3/4" C. DC-6
3/4" C. DC-8
1" C. AN-3, AC-2 & A1-4
DC. TO AC INVERTER
PORTABLE EYE WASH (N.I.C.)
FOR CONTINUATION OF CONDUITS
SEE DWG. SSI6-E-139 (TYP FOR 2)



- NOTES:**
- FOR GENERAL NOTES & LEGEND SEE DWG. SSI6-E-1.
 - FOR GENERAL DETAILS SEE DWG'S SSI6-E-6, 7, 8, 9 & 10.
 - CONTRACTOR SHALL REMOVE & RELOCATE ONE (1) EXISTING LIGHTING FIXTURE THAT INTERFERES WITH CABLE TRAY "X1".
 - CONTRACTOR SHALL CONNECT TO EXISTING 20A. 3P. CKT. BKR. #1 (FOR BATTERY CHARGER) IN EXISTING 480V PNL. "NPC".
 - CONTRACTOR SHALL PROVIDE & INSTALL 1-20A. 1P. CKT. BKR. #8 (INVERTER) & 1-20A. CKT. BKR. #10 (FOR D.C. SWGR HTRE.) IN EXISTING 120V. PNL. "NPCC".
 - CONTRACTOR TO CORE DRILL (1) 2" HOLE FOR EMERGENCY TRIP SWITCH CONDUIT.
 - FOR MISCELLANEOUS DETAILS SEE DWG. SSI6-E-31.
 - CONTRACTOR SHALL REMOVE & RELOCATE EXISTING H.O.A. SELECTOR SWITCH TO THIS SIDE OF DOORWAY.
 - SEALING BUSHINGS FOR CONDUITS IN THESE PLUMBINGS SHALL BE OF THE "C-BOX" OR EQUAL. BUSHINGS FOR CONDUITS WHICH CONDUITS ARE TO BE INSTALLED SHALL BE SEGMENTAL DESIGN WITH ALUMINUM DISCS AND WITH HOLES TO SUIT CABLE DIAMETERS. BUSHINGS FOR UNUSED CONDUITS SHALL BE LEFT PLANK.

CONDUIT & CABLE TRAY PLAN

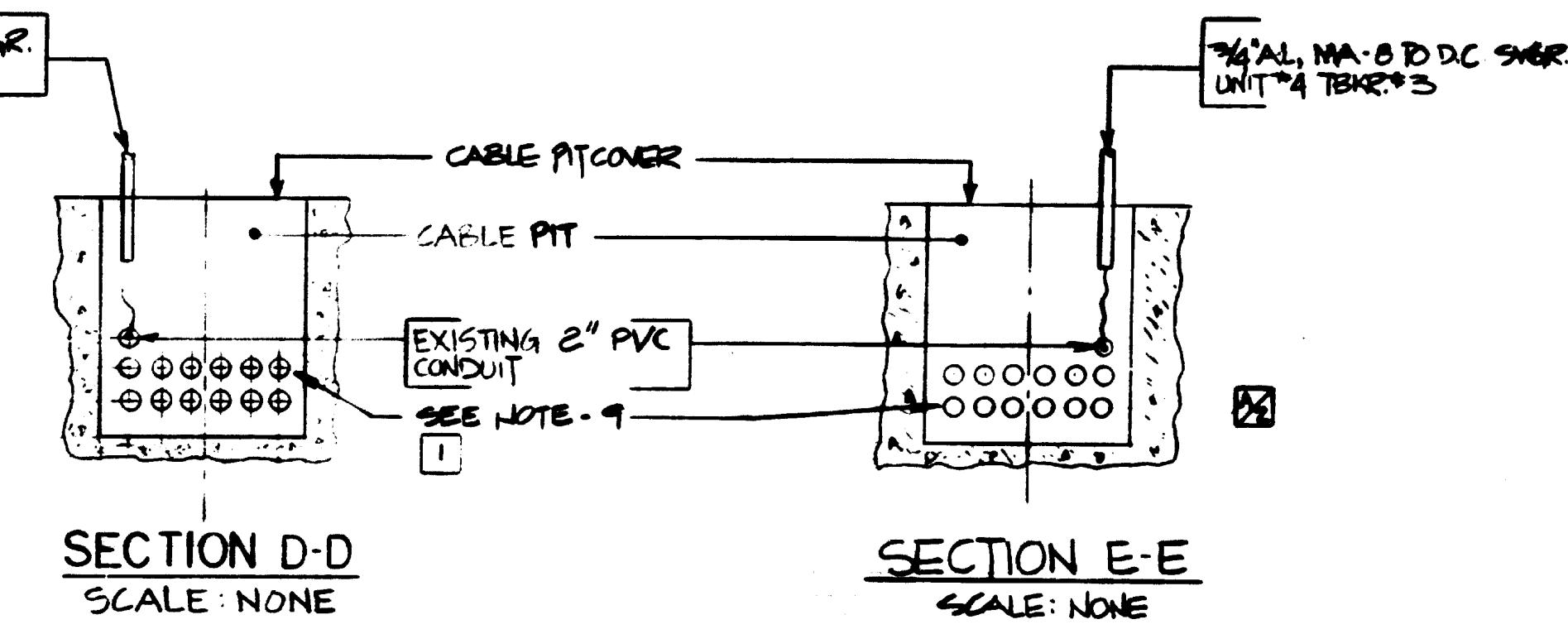


NO. DC-IND LOCATION: TIE BREAKER STATION

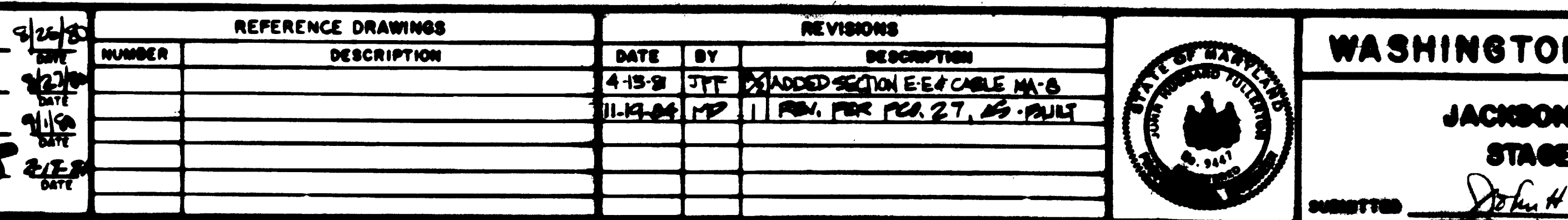
125 V. D.C. 2 W 100 A MAINS, 10000 A AIC BKRS. @ 125 V. D.C. SURFACE MTG. 100 A 2P MAIN CKT. BKR.

DESIGNATION	LOADING WATTS	NO. OUT. LETS	CKT. BKR. TRIP NO.	CKT. BKR. NO. TRIP LETS	LOAD WATTS	DESIGNATION
D.C. SWITCHGEAR CONT. PWR.	-	-	45	1	-	ANNUNCIATOR PANEL
DC. CKT. BKR. TEST CAB.	-	-	30	3	-	EMER. TRIP SW. RELAY CAB.
D.C. TO A.C. INVERTER	-	-	15	5	-	SPARE
SPARE	-	-	15	7	-	SPARE

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS BUILT CONDITION
Edmund J. [Signature]
JAN 15 1985



GROUNDING PLAN



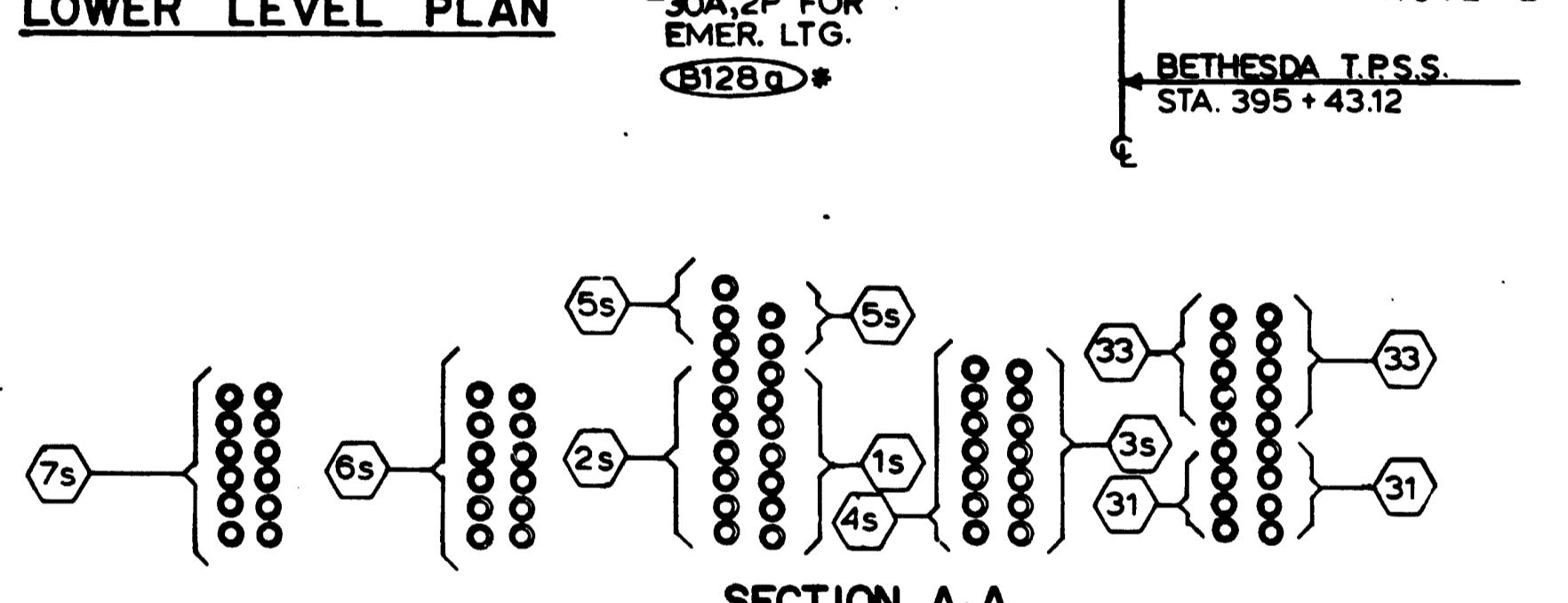
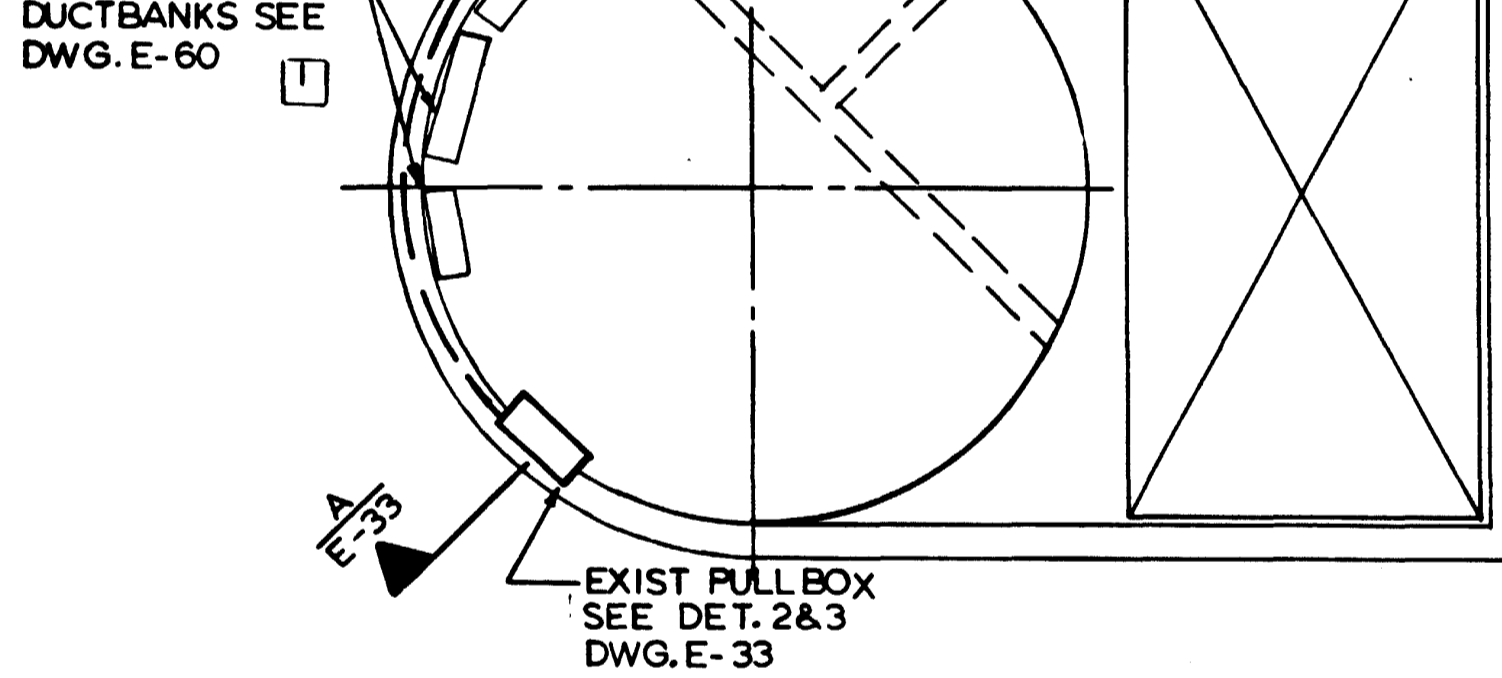
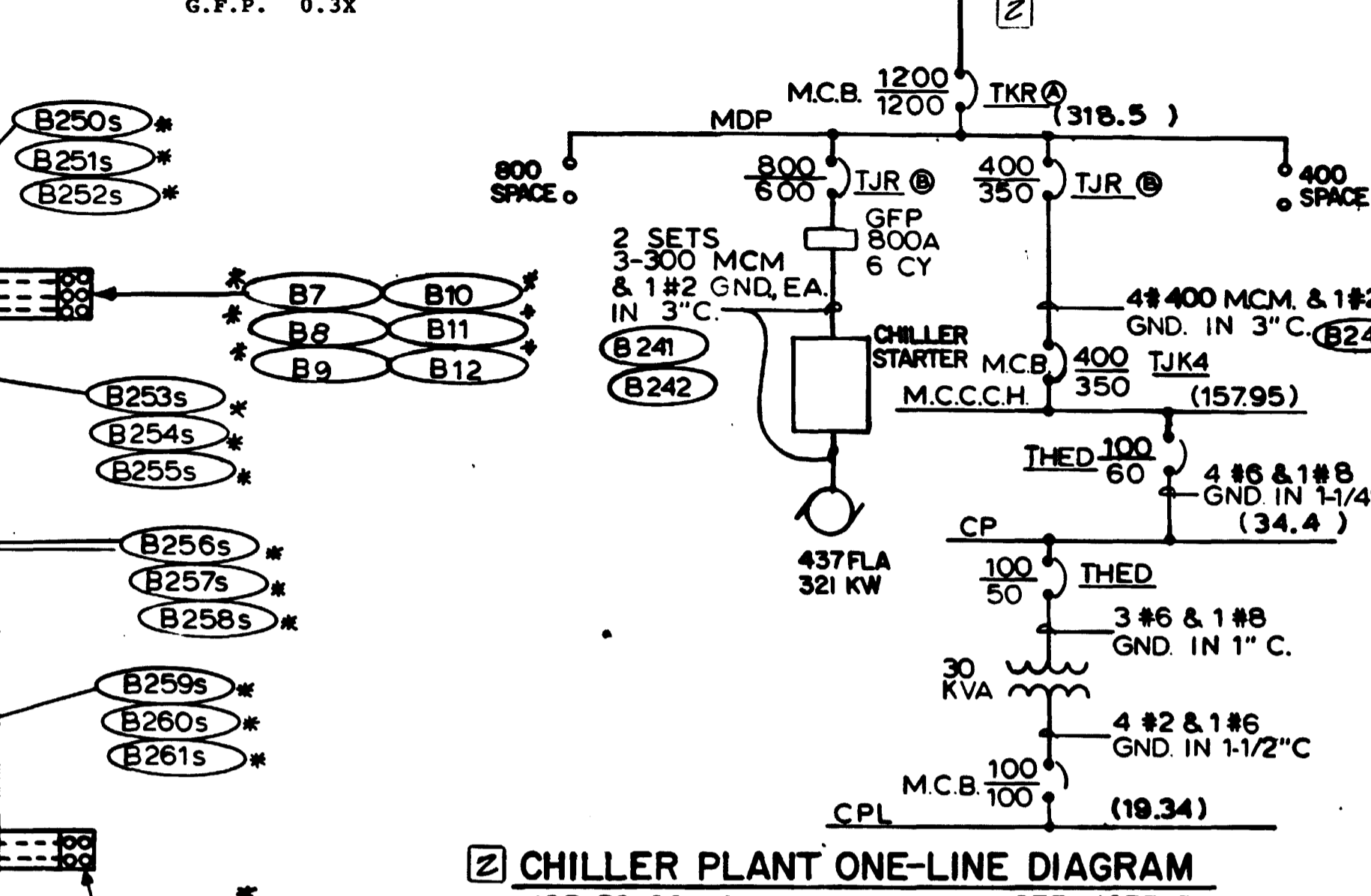
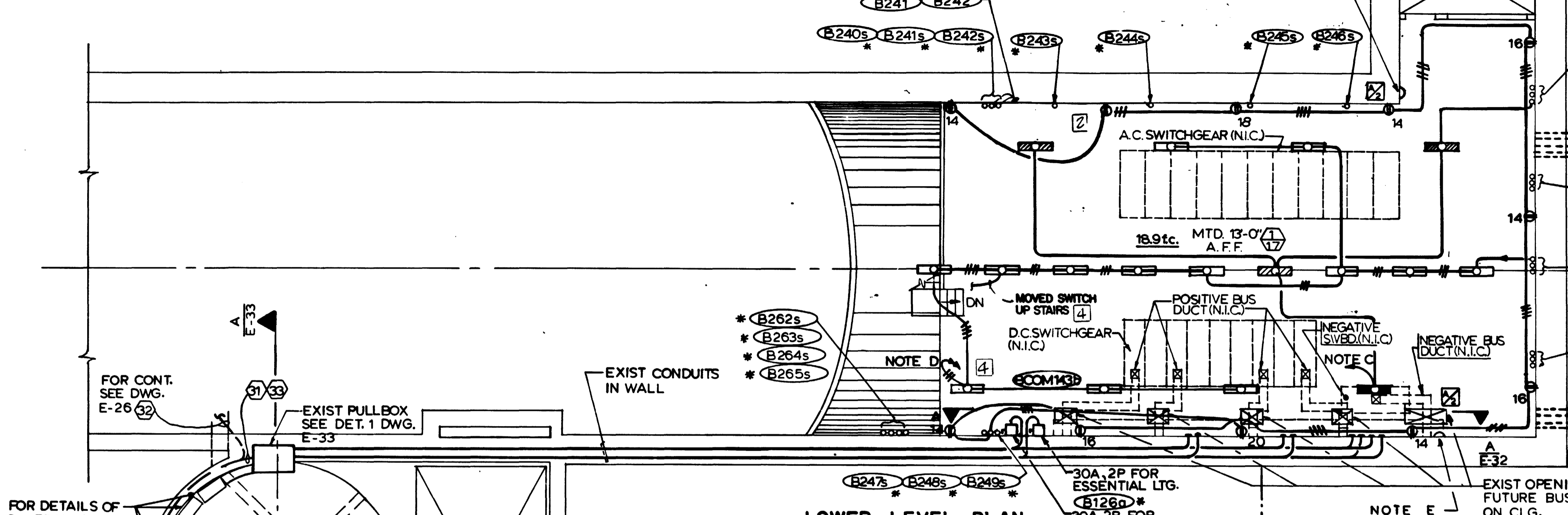
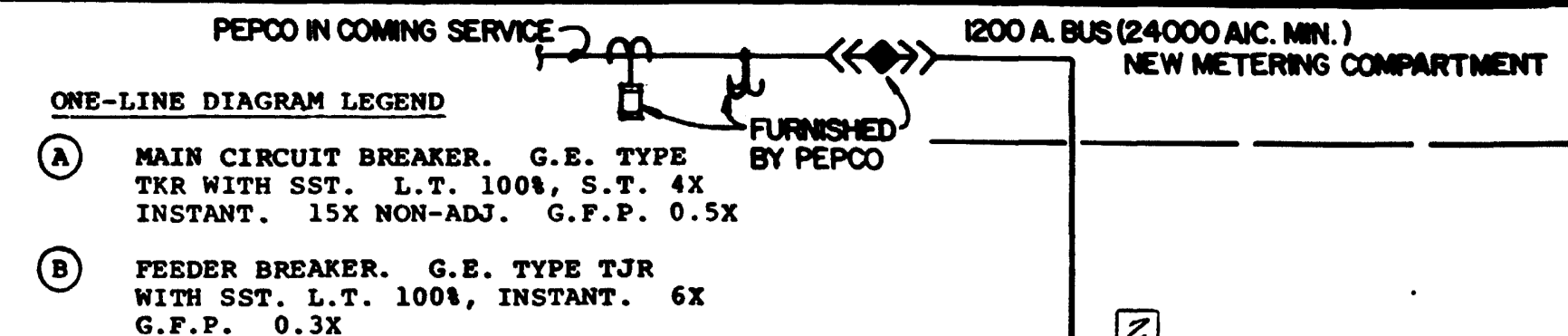
DESIGNED W.G.M. DATE 4-15-84	REFERENCE DRAWINGS	REVISIONS		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY JACKSON & MORELAND STAGE DESIGNER <i>John H. Fullerton</i>	DE LEUW, CATHAR & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT	SUBSTATION INSTALLATION SSI-6 NORWOOD DR. TIE BREAKER STATION CONDUIT & CABLE TRAY & GROUNDING
DRAWN R.H.K. DATE 4-15-84	NUMBER	DESCRIPTION				
CHECKED GPS DATE 4-15-84						1 0 1 2 3 4 5
APPROVED W.G.M. DATE 4-15-84						SSI6-E-31 M427-31

REVISIONS: 1. ADDED SECTION E-E & CABLE MA-8. 2. REV. FOR PCA 27, AS - PAULT.

DATE: 4-15-84

SCALE: 1/4" = 1'-0"

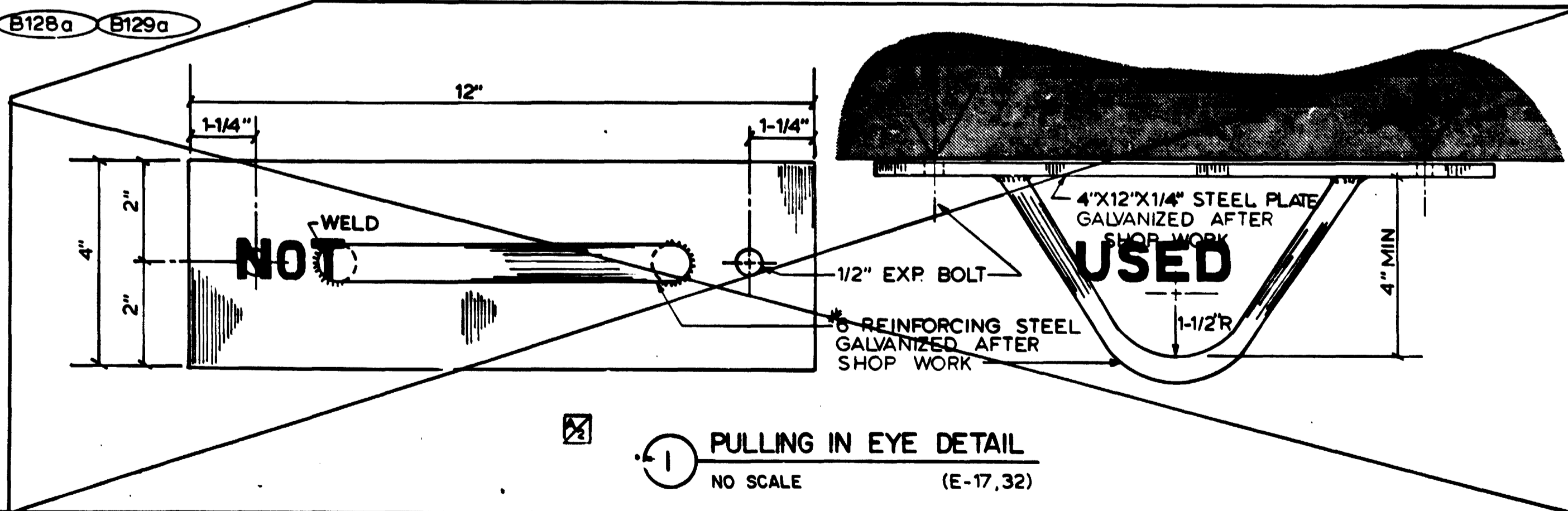
NO. 7084-002



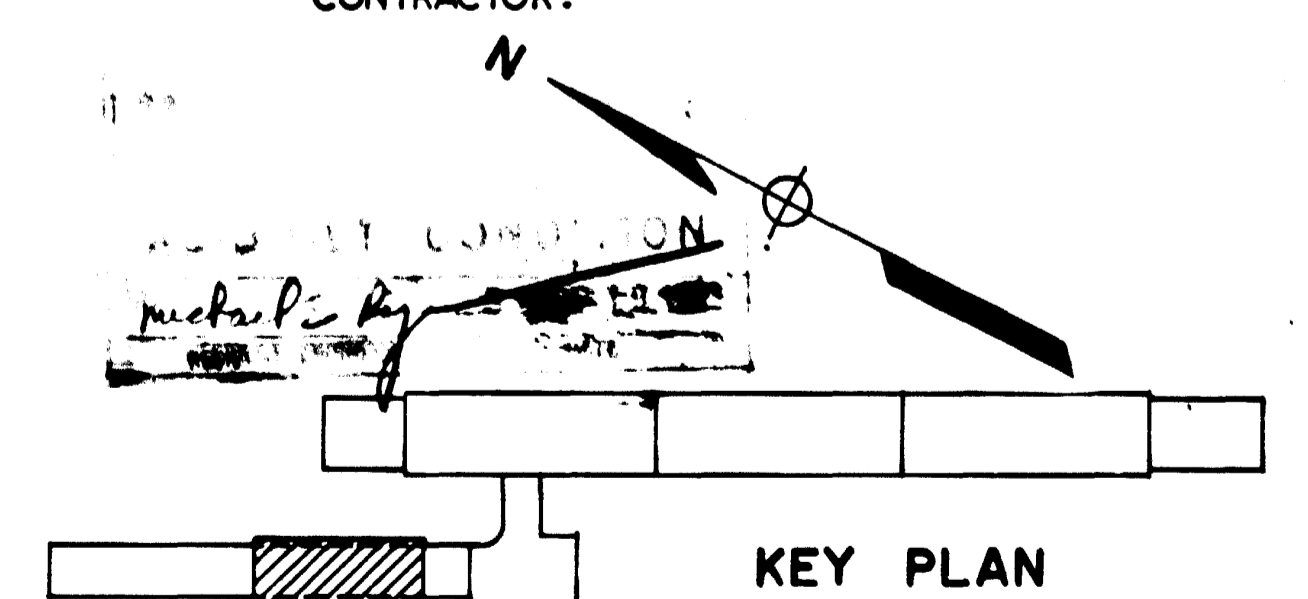
AS-BUILT NOTE:
 SUBSTITUTE WESTINGHOUSE BREAKERS FOR GE BREAKERS AS FOLLOWS:
 - MAIN BREAKER: MCG 31200F: 1200A FRAME, 1200A TRIP.
 - CHILLER FEEDER BREAKER: LCG 3600F: 600A FRAME 600A TRIP.
 - MCC FEEDER BREAKER: LCG 3400F: 400A FRAME 350A TRIP.
 - TWO SPACES FOR 600A FRAME BREAKER.

- NOTES:**
- A. ALL SLEEVES IN CEILING SLAB UNLESS OTHERWISE NOTED
 - B. FOR GROUND BUS ARRANGEMENT, SEE DWG. E-127
 - C. TO EMER. LTG. DISC. SWITCH.
 - D. TO ESSENTIAL LTG. DISC. SWITCH
 - E. EXISTING PULLING-IN IRON FOR ELECTRICAL CABLES.
 - F. SEE ONE-LINE DIAGRAM SYMBOL LIST ON AND NOTE C ON DWG. E-39
 - G. PROVIDE POWER SUPPLY TO N.I.C. SWGR. HTRS., UPS & A.T.S., COORDINATING THIS WORK WITH SSI STAGE CONTRACTOR. FOR CIRCUITS DEDICATED TO THIS EQUIP. SEE PANEL SCHEDULE "CPL", DWG. E-44, & "CP", DWG. E-41.
 - H. COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES WITH TRACTION POWER STAGE CONTRACTOR.

- ALL EXIST. CONDUITS**
- 31 B111a B112a B115 B116 B126a B127a B128a B129a
 - 32 B50 B51 B52 B70 B53 B75
 - 33 COM143 COM144 COM145 COM146 B140 B141 COM161 COM162 COM163
 - 1s DP1a THRU DP7a
 - 2s DP8a THRU DP14a
 - 3s DP15a THRU DP21a
 - 4s DP22a THRU DP28a
 - 5s DP29a THRU DP33a
 - 6s DN1a THRU DN12a
 - 7s DN13a THRU DN24a



PULLING IN EYE DETAIL
 NO SCALE (E-17,32)



DESIGNED P.S. CHU 9-16-76
 DRAWN E. ROCHA 9-16-76
 CHECKED H.B. ZACKRISON 6-16-80
 APPROVED H.B. ZACKRISON 6-16-80

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
S-113	NORTHVENT SHAFT & PWR. SUBSTA. STAIRS & LADDER	9-29-80	H.Z.
A-50	SUBSTATION - CHILLER PLANT		
M-25	SUBSTATION PLAN AND SECTION	7-19-83	MD

NUMBER	DESCRIPTION
1	REV. PER PCO. 30, AS-BUILT
2	REV. PER PCO. 56, AS-BUILT
3	REV. PER PCO. 56 REV. 1, AS-BUILT
4	REV. PER FIELD COND., AS-BUILT

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHÉWS • CHATELAIN • BEALL
 ENGINEERS AND ARCHITECTS
 SECTION DESIGNER

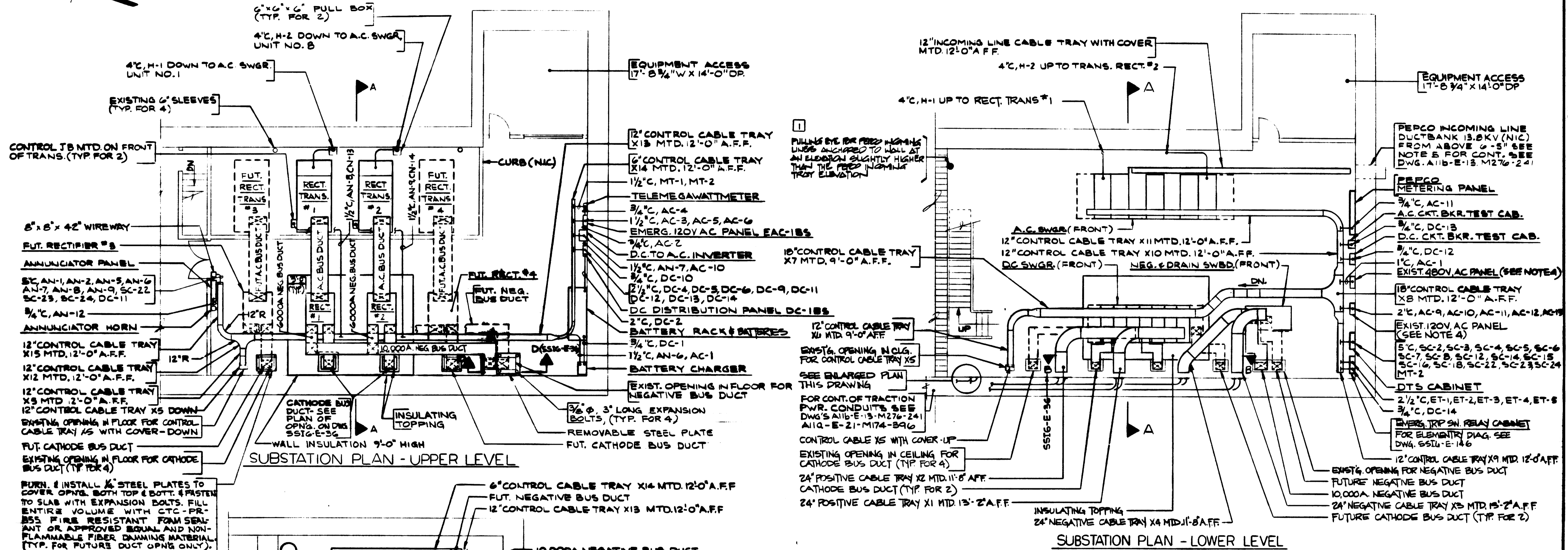
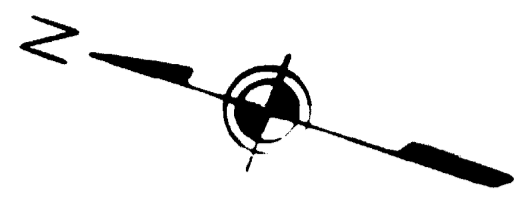
DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *Wendy R. Gross* DATE 8-15-80 APPROVED *[Signature]*

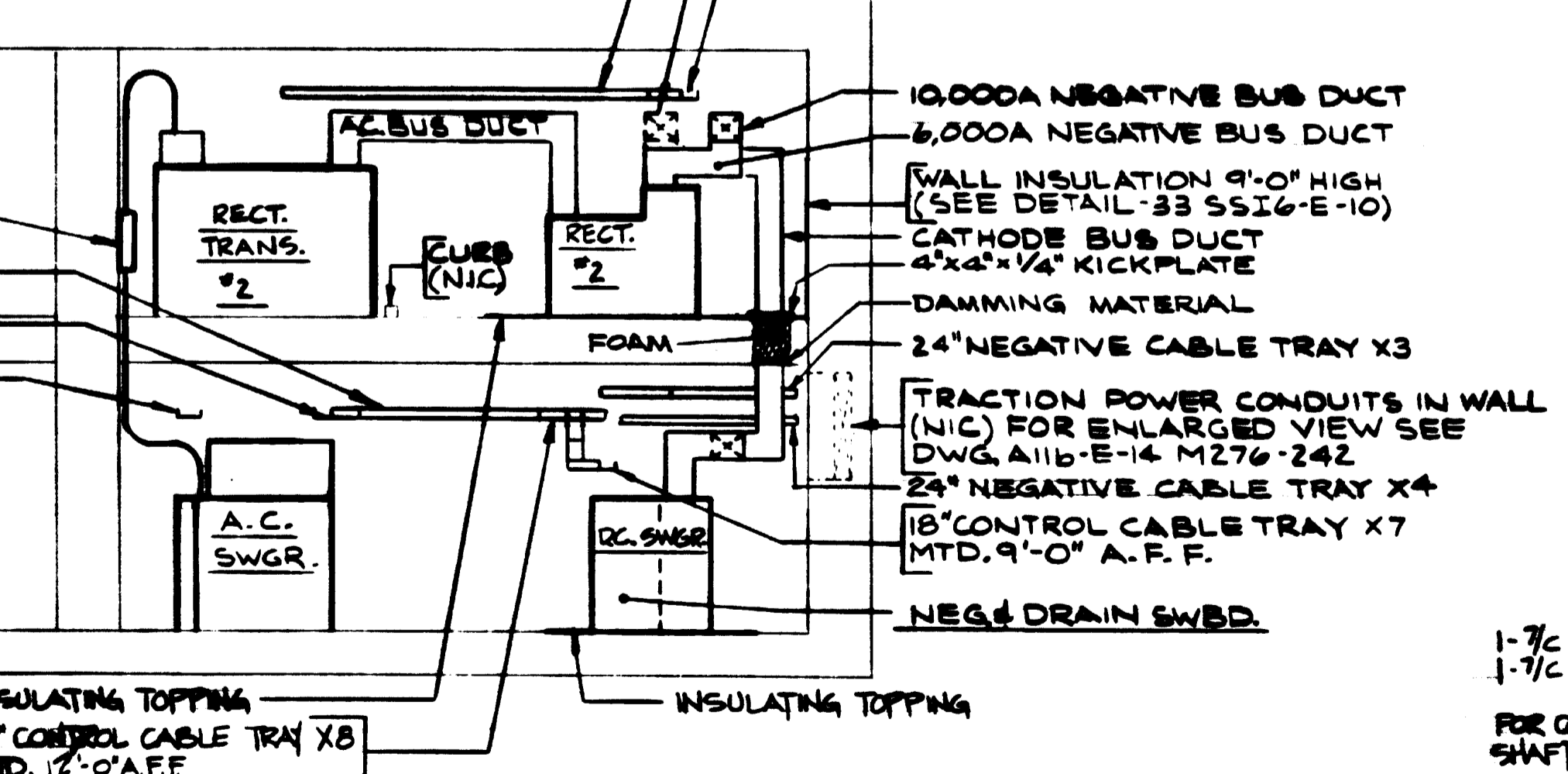
**ROCKVILLE ROUTE
 BETHESDA STATION
 TRACTION POWER S.S. LOWER LEVEL-LTG. & POWER**

SCALE 1/8"=1'-0" 10 2 4 6 8 10
 DRAWING NO. FA 11 - E - 32 M334-181

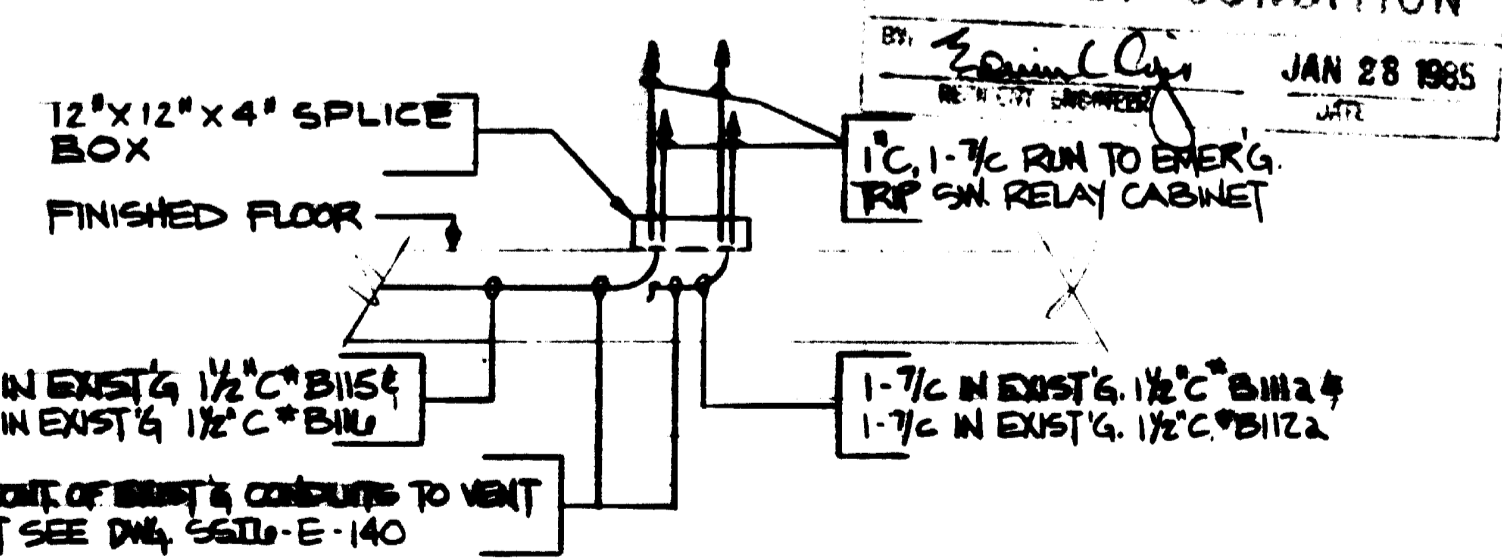


SUBSTATION PLAN - UPPER LEVEL

SUBSTATION PLAN - LOWER LEVEL



SECTION A-A (SCALE: 1/8" = 1'-0")



ENLARGED PLAN SCALE: NONE

NOTES:

- FOR GENERAL NOTES & LEGEND SEE DWG S516-E-1.
- FOR GENERAL DETAILS SEE DWG. S516-E-6, 7, 8, 9 & 10.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF INCOMING LINE CABLE TRAY WITH POTOMAC ELECTRIC POWER CO. FOR THE INSTALLATION OF 15KV INCOMING LINES BY PEPCO AND SHALL SEND MFR. SHOP DWGS TO PEPCO AND OBTAIN WRITTEN APPROVAL OF CABLE TRAY FROM PEPCO BEFORE INSTALLATION OF CABLE TRAY.
- BRANCH CIRCUIT ARE REQUIRED IN EXISTING PANELS AS FOLLOWS:
480V. PANEL, 1-30A, 3P (FOR BATTERY CHARGER);
120V PANEL, 1-20A, 1P (FOR INVERTER); 120V PANEL, 1-20A, 1P (FOR METERING PANEL); 120V PANEL, 1-30A, 1P (FOR D.C. SWGR HTS);
120V PANEL, 2-40A, 1P (FOR A.C. SWGR HTS).
IF SPARE BREAKERS ARE NOT AVAILABLE IT SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. (SEE NOTE 7)
- SEALING BUSHINGS FOR CONDUITS IN THIS DUCTBANK SHALL BE OF TYPE CSBI OR APPROVED EQUAL. BUSHINGS FOR CONDUITS IN WHICH CABLES ARE TO BE INSTALLED SHALL BE SEGMENTAL DESIGN WITH ALUMINUM DISC & WITH HOLES TO SUIT CABLE DIAMETERS. BUSHING FOR UNUSED CONDUITS SHALL BE BLANK.
- FOR MISCELLANEOUS DETAILS SEE DWG S516-E-3 & 4.
7. CABLES WERE NOT AVAILABLE, 1-30A 2POLE 480V, 2-40A 1POLE 480V, 2-40A 1POLE WERE INCLUDED BY P.C. #22.

DESIGNED	APL	DATE	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	MLS	11-26-84			1	REV. PER P.C. 12, AS-BUILT
CHECKED	GRS	11-26-84			2	REV. PER P.C. 22, AS-BUILT
APPROVED	[Signature]	11-26-84				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

JACKSON & MORELAND
STAGE DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

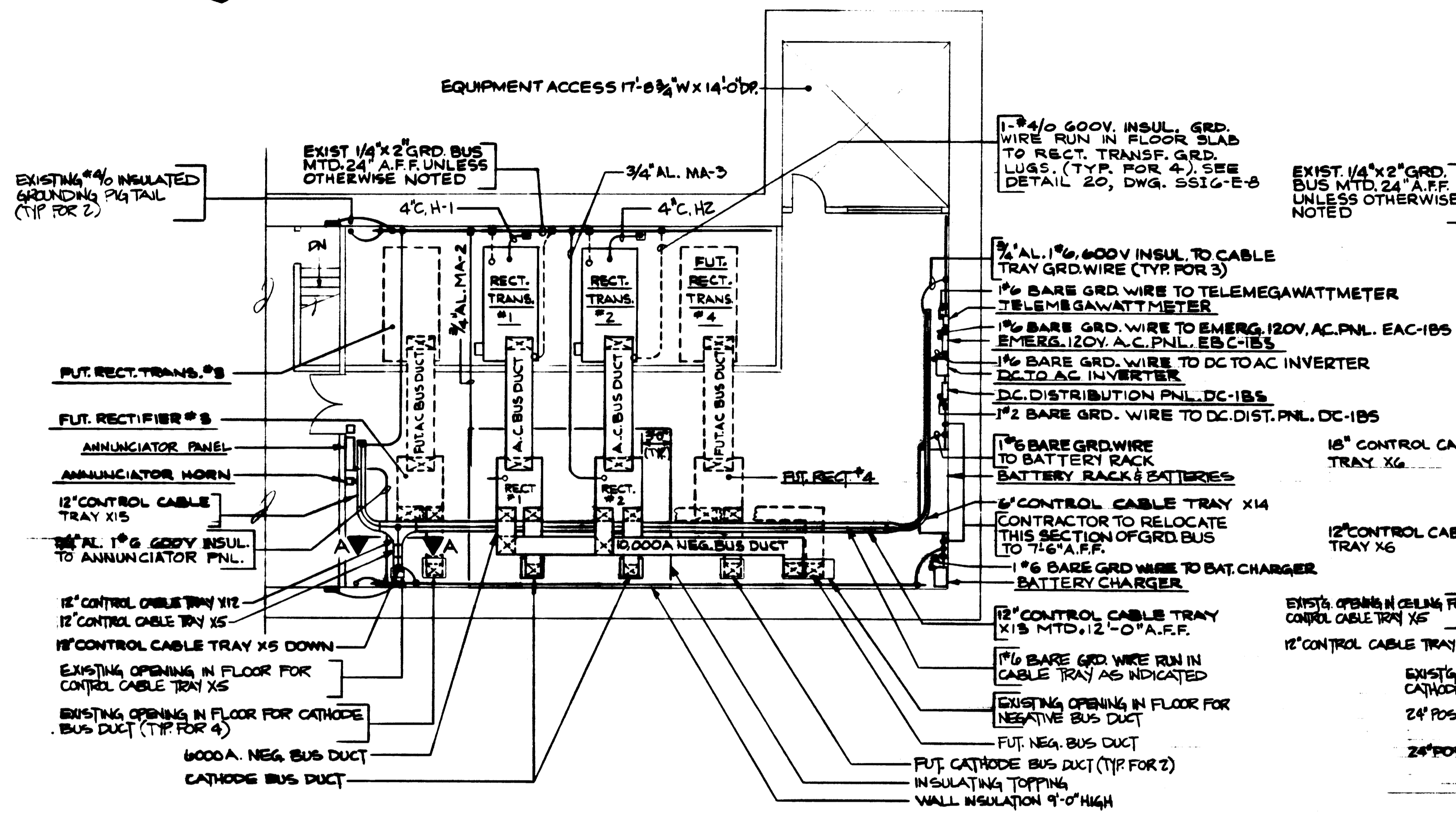
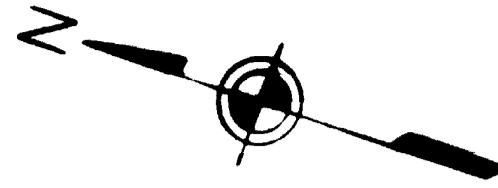
SUBSTATION INSTALLATION SSI-6

BETHESDA SUBSTATION
CONDUIT & CABLE TRAY

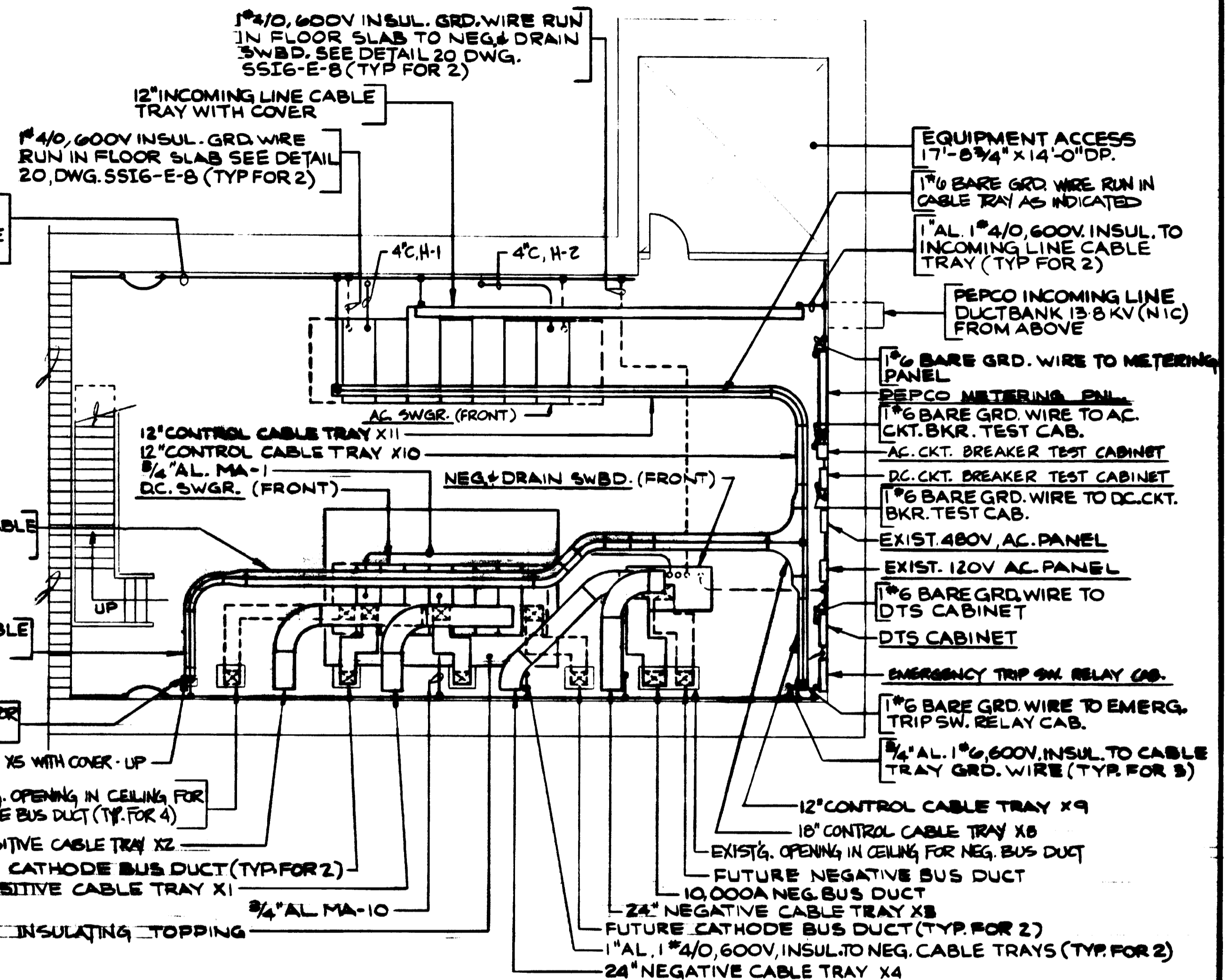
SCALE: 1" = 1'-0"

DWG NO: S516-E-34

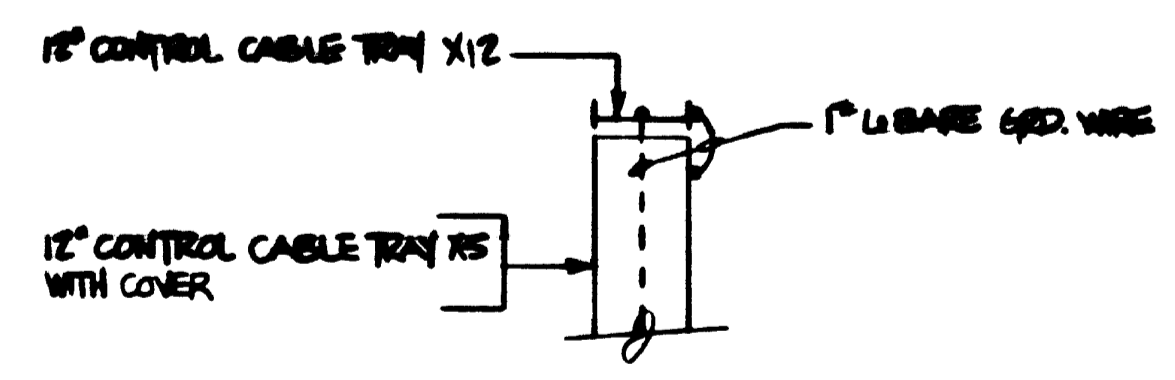
M427-34



SUBSTATION PLAN - UPPER LEVEL



SUBSTATION PLAN - LOWER LEVEL



SECTION A-A
SCALE: NONE

- NOTES:**
1. FOR GENERAL NOTES & LEGEND SEE DWG. SSI6-E-1.
 2. FOR GENERAL DETAILS SEE DWG. SSI6-E-6, 7, 8, 9 & 10.

DESIGNED	DRAWN	CHECKED	APPROVED	REFERENCE DRAWINGS		REVISIONS		
				NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
APL	MLS	GPS	[Signature]					



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

JACKSON & MORELAND
STAGE DESIGNER

John H. Fullerton

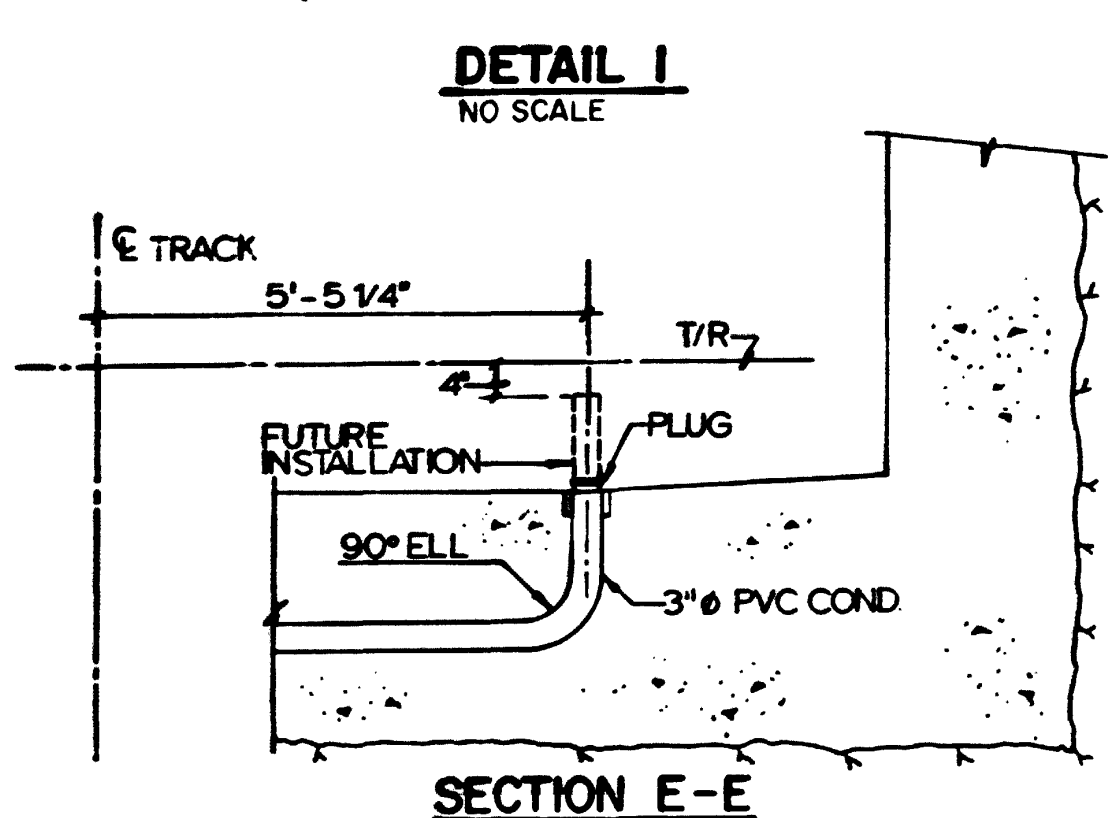
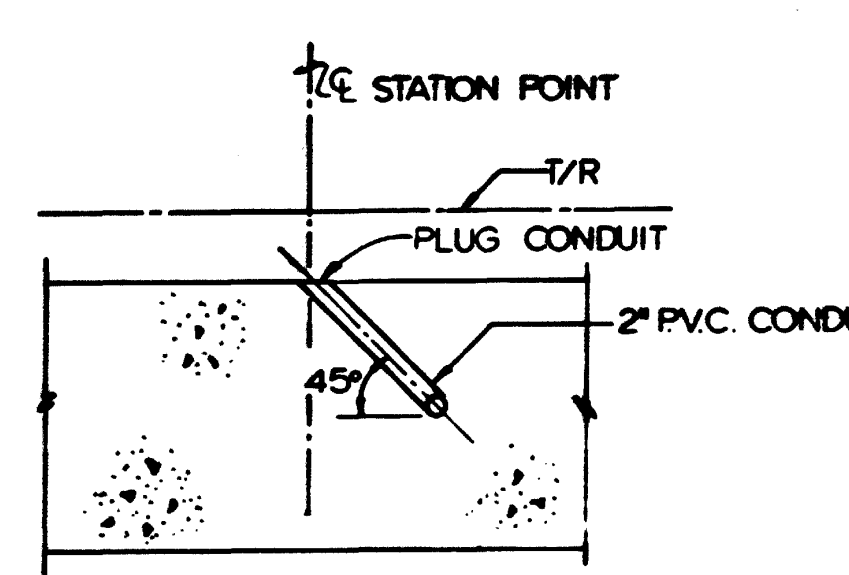
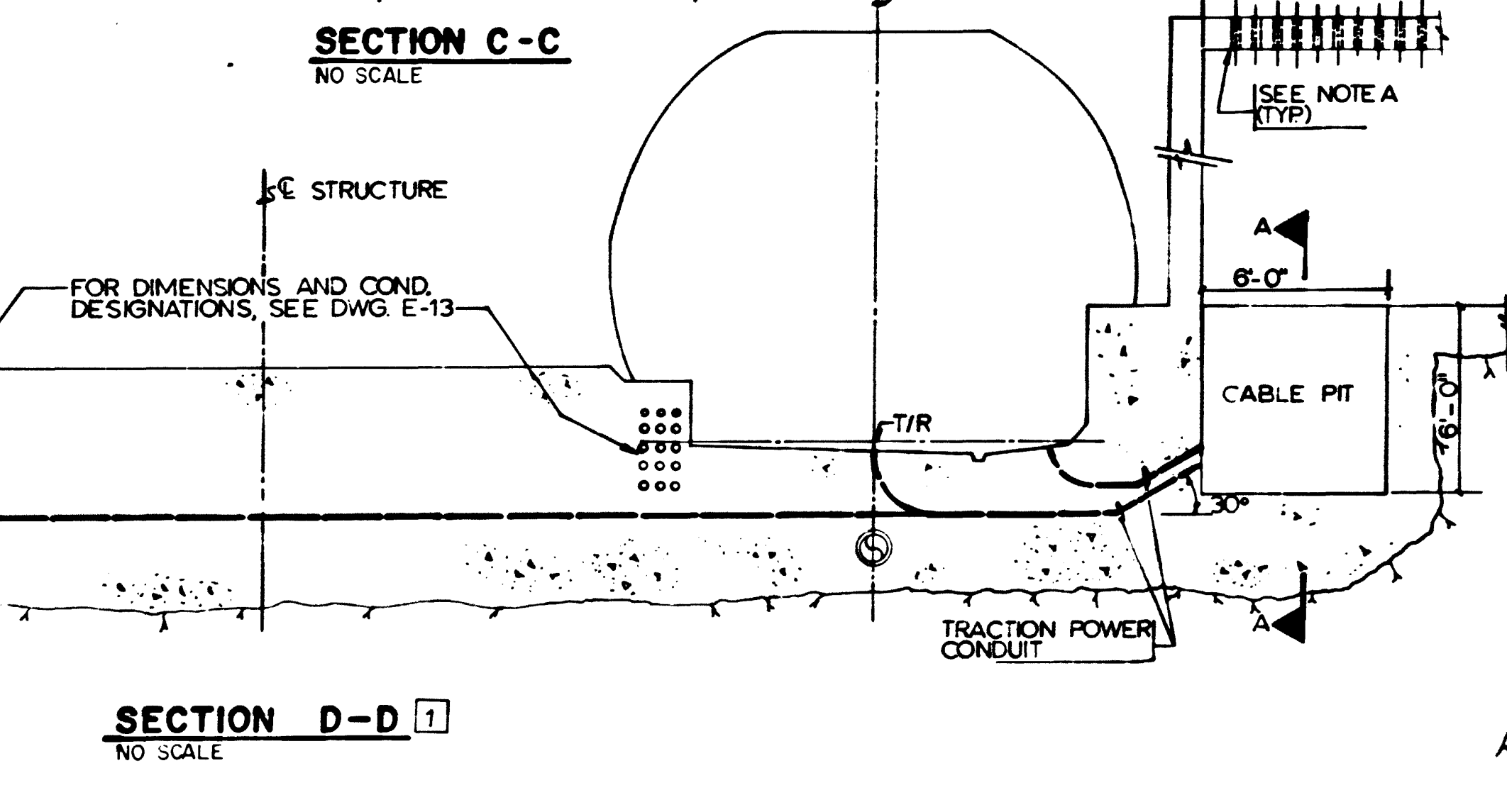
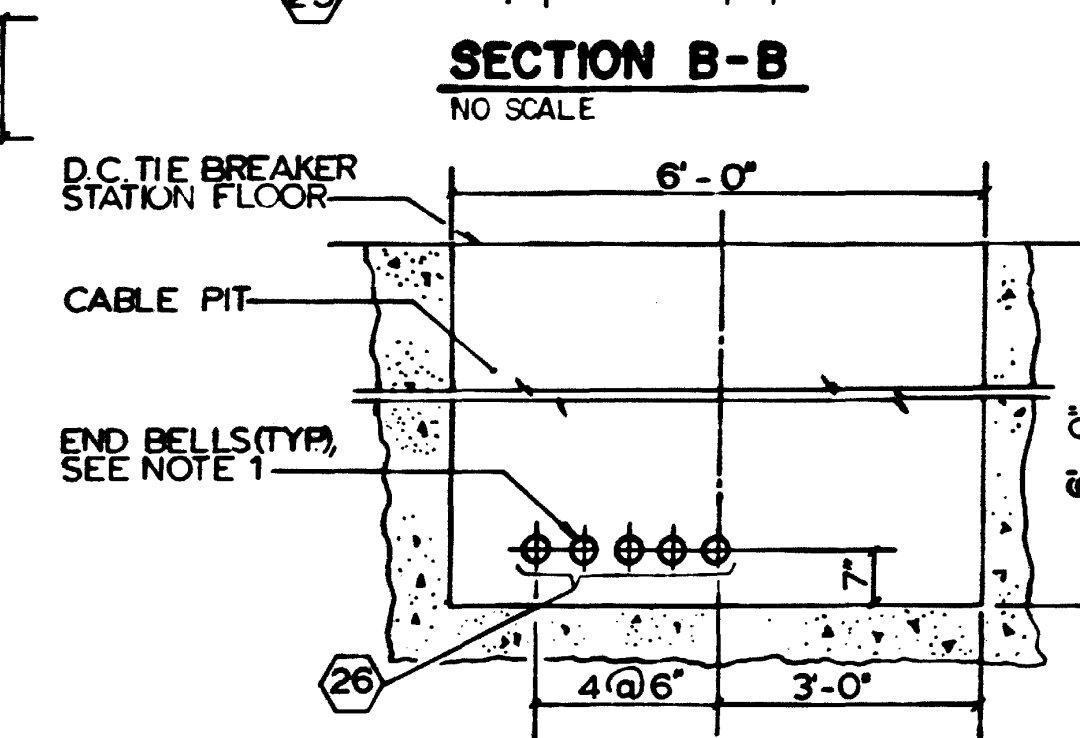
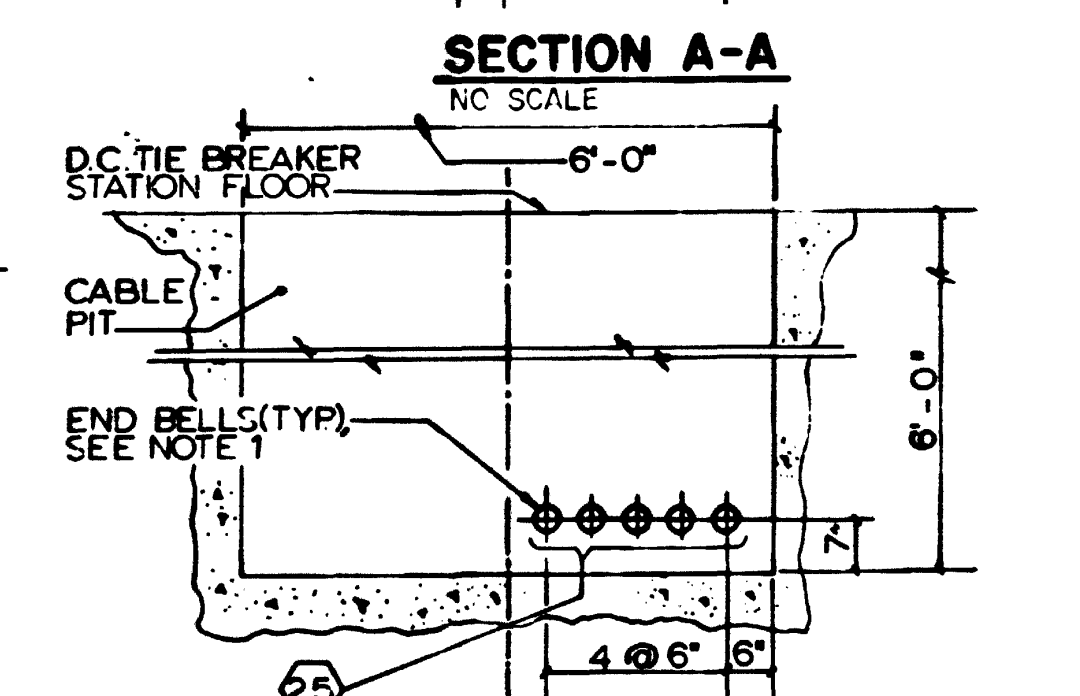
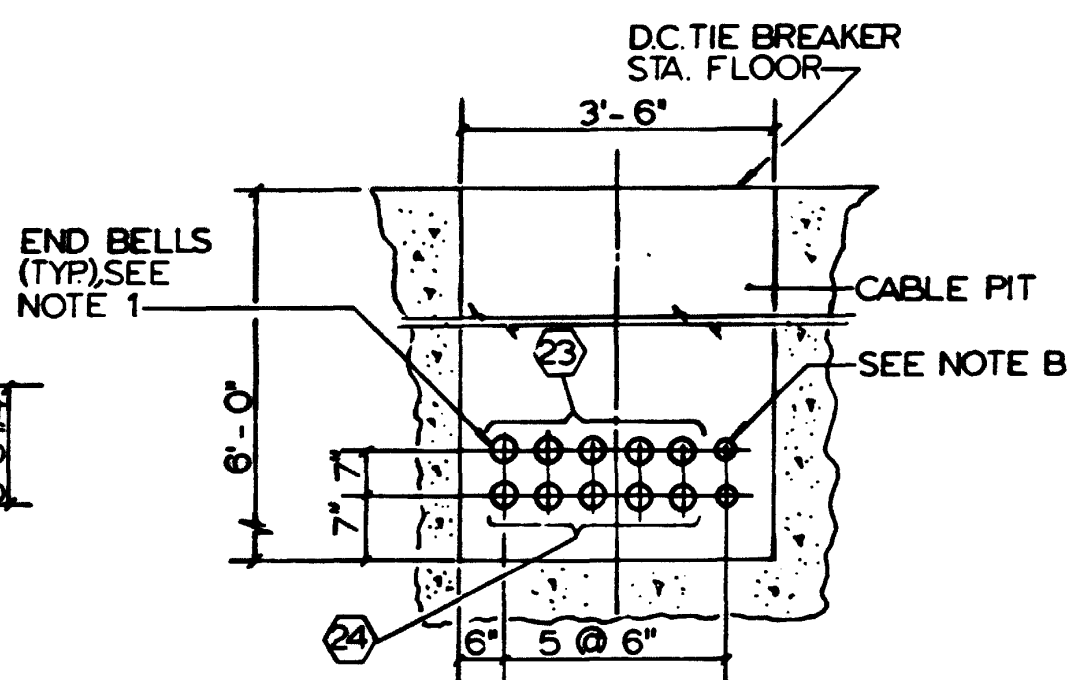
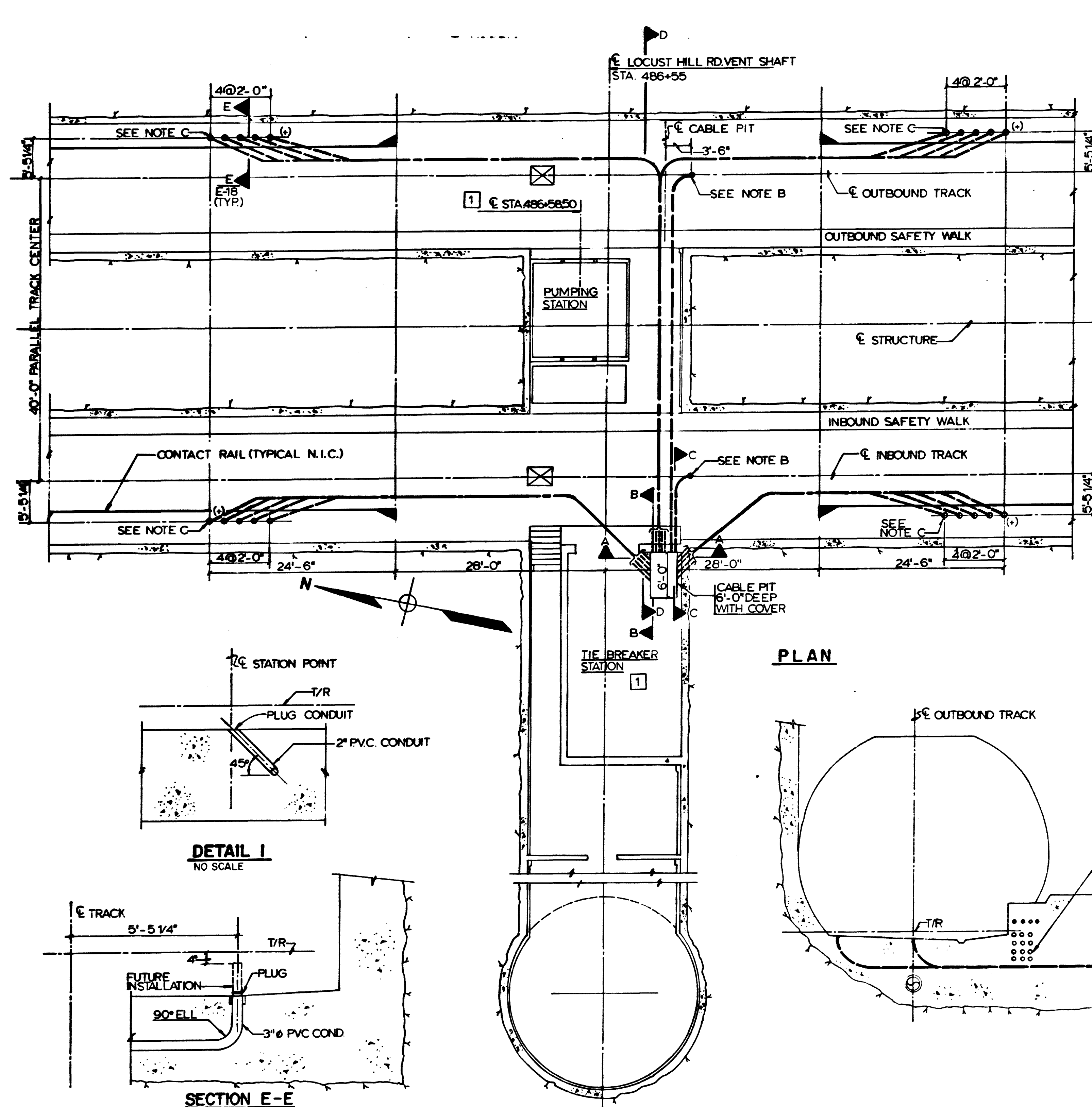
DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBSTATION INSTALLATION SSI-6
BETHESDA SUBSTATION
GROUNDING

SCALE: 1" = 1'-0" 10 2 4 6 8 10

DRAWING NO. **SSI6-E-36** 1427-36



GENERAL NOTES

1. ALL D.C. TRACTION POWER CONDUIT SHALL BE 3" PVC, UNLESS OTHERWISE NOTED.
2. PROVIDE END BELLS ON CONDUITS TERMINATING IN CABLE PIT EXCEPT AS NOTED.
3. PLUG BOTH ENDS OF EACH CONDUIT, IF EXPOSED STUB OUTS SHALL BE PROTECTED FROM DAMAGE.
4. ALL CONDUIT EMBEDDED BELOW CONCRETE INVERTS OR FLOOR SLABS SHALL BE ENCASED IN CONCRETE NOT LESS THAN 2" THICK.
5. ALL ELBOWS AND/OR BENDS SHALL HAVE 24" MIN. RADIUS UNLESS OTHERWISE NOTED.
6. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DWG. E-1.

NOTES

- A 6 - 3" Ø CONDUIT SLEEVES TO BE LOCATED IN CEILING 8" FROM SIDEWALL. THEY SHALL BE TERMINATED FLUSH WITH EACH FACE OF THE SLAB AND PLUGGED. THESE CONDUITS ARE FOR THE FOLLOWING SERVICES: INTRUDERS ALARM, FIRE ALARM, FIRE ALARM DATA TRANSMISSION AND FAX-TELEPHONE AND A.C. POWER (EMERGENCY ESSENTIAL AND NON-ESSENTIAL) AND 4-2Ø CONDUIT SLEEVES FOR D.C. SWITCHGEAR CABLES.
- B 2" PVC CONDUIT FOR VOLTAGE REFERENCE. CONDUIT TERMINATION SHALL BE AS DETAIL 1 ON THIS DRAWING.
- C SEE DETAIL 1 OR 2 DWG. E-6 FOR TERMINATION OF POSITIVE TRACTION POWER CONDUITS.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
John Fisher MAY 12 1980



REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
S-138	LOCUST HILL ROAD TIEBREAKER STATION	2-10-77	PSC
M-18	"		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
 ENGINEERS AND ARCHITECTS
 SECTION DESIGNER
Leon Chastain

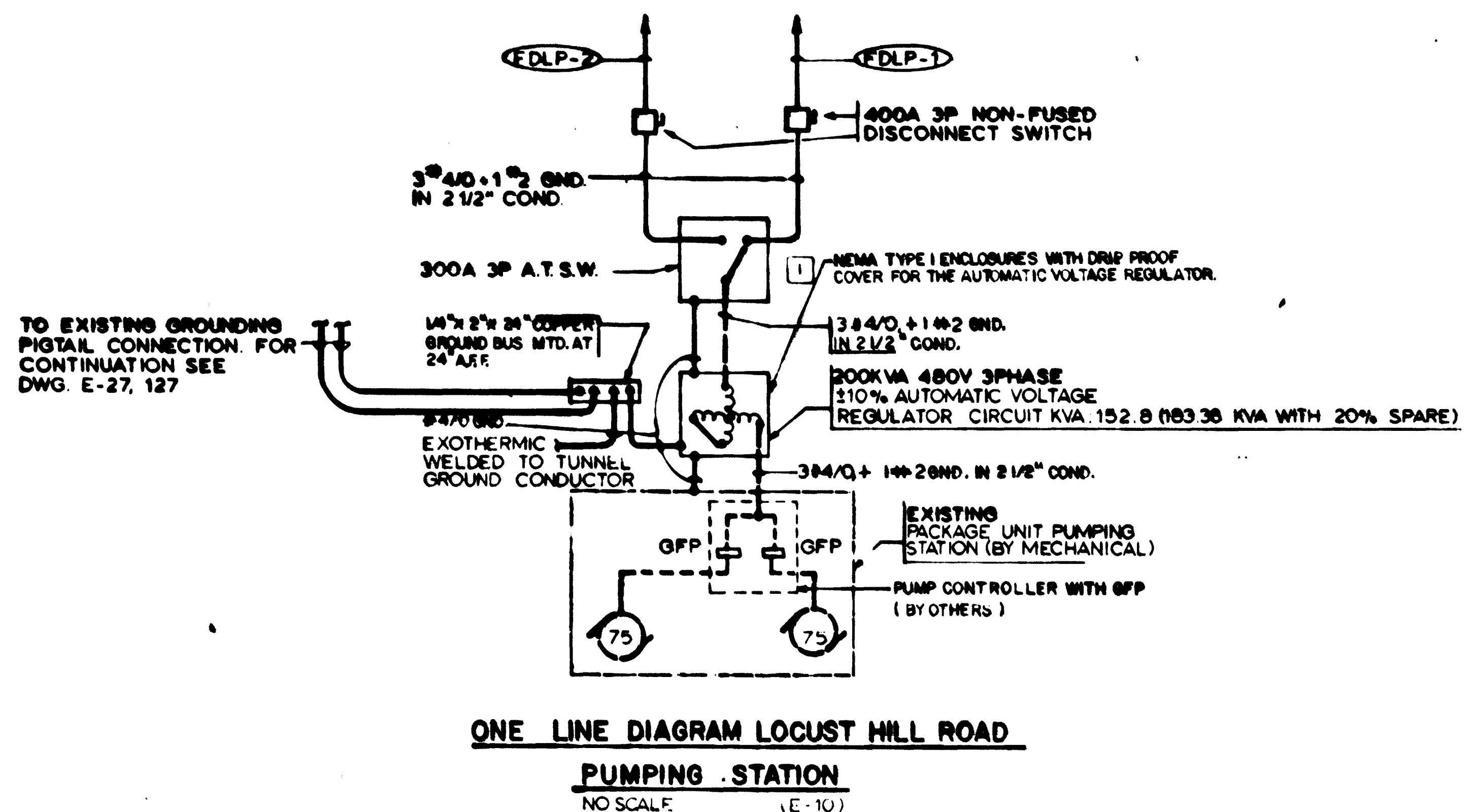
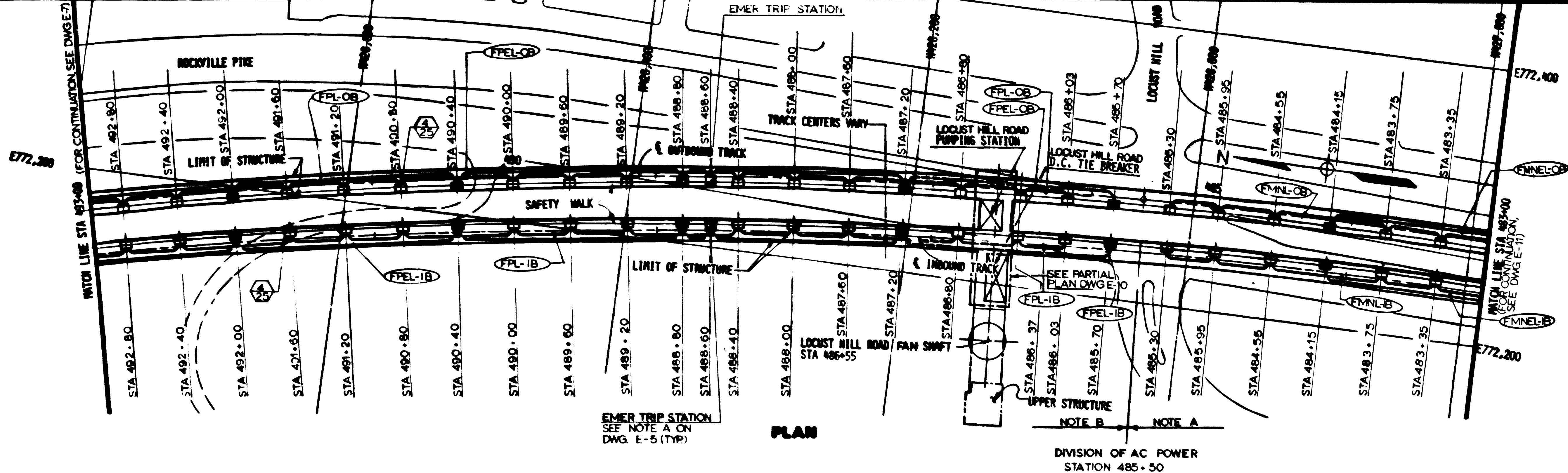
DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *Leon Chastain* DATE 3-4-77

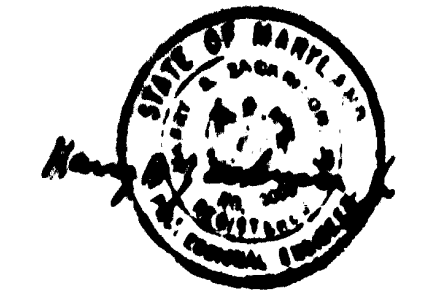
ROCKVILLE ROUTE
D. C. TIE BREAKER STATION - CONDUIT
TRACK LEVEL PLAN - STA. 486+55

SCALE: 1" = 1'-0" 10 2 4 6 8 10
 DRAWING NO. **A-11a-E-18** M74-394



- NOTES**
- A. TUNNEL GROUND CONDUCTORS IN BOTH I.B. & O.B. TUNNELS SHALL RUN CONTINUOUSLY FROM THE DIVISION OF A.C. POWER (STA 485+50) TO GROUND BUS IN NORTH A.C. SWBD ROOM FOR ROUTING AT SHAFT ADITS SEE "LOCUST HILL ROAD PART PLAN" ON DWG E-10, "PARTIAL PLAN" ON DWG E-14 AND "PARTIAL PLAN - MEDICAL CENTER NORTH VENT SHAFT" ON DWG E-18.
 - B. TUNNEL GROUND CONDUCTORS IN BOTH I.B. & O.B. TUNNELS SHALL RUN CONTINUOUSLY FROM THE DIVISION OF A.C. POWER (STA 485+50) TO THE ELECTRICAL MANHOLE AT STA 513+23 (SEE "PARTIAL PLAN B" ON DWG E-3). THEY SHALL NOT BE CONNECTED TO THE TUNNEL GROUND CONDUCTORS DESCRIBED IN NOTE A ABOVE. FOR ROUTING ALSO SEE DETAIL 1 ON DWG E-4 AND "PARTIAL PLAN - SAFETY WALK TRANSITION" ON DWG E-14.
 - C. SEE NOTES B & C DWG E 11.

AS BUILT CONDITION



DESIGNED P.S. CHU 8-8-80
 DRAWN G.J. BELLO 8-8-80
 CHECKED H.B. ZACHARSON 9-16-80
 APPROVED H.B. ZACHARSON 9-29-80

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
1	KEY PLAN AND PROFILE LOCUST HILL ROAD VENT SHAFT	8-16-80	HTN
2	KEY PLAN AND PROFILE STA 493+00 TO STA 483+00		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
 ENGINEERS AND ARCHITECTS
 SECTION DESIGNER

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 GENERAL ENGINEERING CONSULTANT

HARRY WEEBE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

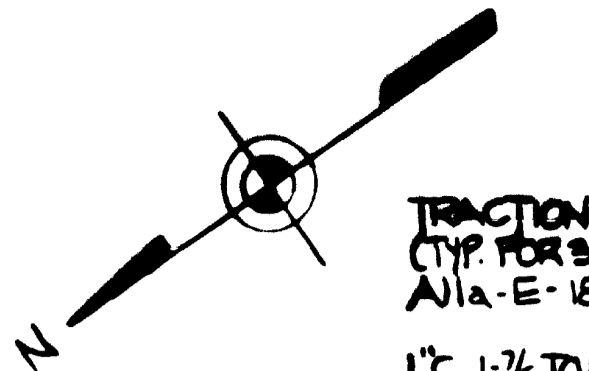
SUBMITTED *[Signature]* DATE 3/10/81 APPROVED *[Signature]*

ROCKVILLE ROUTE
ELECTRICAL KEY PLAN
 STA. 493+00 TO STA. 483+00 - LIGHTING

HORIZ. 1"=40' VERT. 1"=10'

AND AS NOTED

FAI2-E-9 M335-269



TRACTION PWR. DUCTBANK (N.I.C.)
(TYP. FOR 3) FOR CONT. SEE DWG.
A1A-E-18 (M47-394)

1" C. 1-7/8" EMERG. TRIP SW.
RELAY CABINET
SPLICE BOX

FOR CONT. OF ETS' CABLES
SEE DWG. SSI6-E-140

CUT & REMOVE THIS SECTION
OF CABLE PIT COVER FOR
TRACTION PWR. CABLE TRAY

CABLE PIT & COVER (N.I.C.)

4" x 4" x 1/4" KICKPLATE
INSTALLED AROUND
CABLE PIT

6" CONTROL CABLE TRAY
X5 MTD. 8'-0" A.F.F.

ANNUNCIATOR HORN

2" C. AN-1, AN-2, AN-3, SC-7, & DC-5
1" C. 1-7/8" TO EMERG. TRIP
SWITCH CABINET

SEE NOTE #4

JUNCTION BOX MTD. 10'-0" A.F.F.

FOR CONTINUATION OF
ETS' CABLES SEE
DWG. SSI6-E-140

ANNUNCIATOR PANEL
EXISTING 480V PANEL LTH

EXISTING 120V LOAD CENTER LTL

24" POSITIVE CABLE TRAY
X1 MTD. 10'-6" A.F.F.

24" POSITIVE CABLE TRAY
X2 MTD. 9'-0" A.F.F.

20A, 1P, 120V CKT. BKR.

3/4" C. AC-2

3/4" C. AC-3

D.C. TO A.C. INVERTER

1" C. AN-3, AC-4

3/4" DC-B

D.C. DISTRIBUTION PNL. DC-1LHR

1/2" C. DC-4, DC-5, DC-6 & DC-7

1" C. DC-3

6" CONTROL CABLE TRAY
X6 MTD. 8'-0" A.F.F.

BATTERY RACK & BATTERIES

INSULATING TOPPING

6" CONTROL CABLE TRAY
X4 MTD. 8'-0" A.F.F.

D.C. SWGR. (FRONT)

3/4" C. DC-1

3/4" C. AN-1

BATTERY CHARGER

1" C. AC-1

3" C. SC-1, SC-2, SC-3, SC-4 & SC-7

DATA TRANSMISSION SYSTEM CAB.

EMERGENCY TRIP SW. RELAY CAB.
FOR ELEMENTARY DIAGRAM SEE
DWG. SSI6-E-147

2" C. ET-1, ET-2, ET-3 & ET-4

24" POSITIVE CABLE TRAY
X1 MTD. 10'-6" A.F.F.

24" POSITIVE CABLE TRAY
X2 MTD. 9'-0" A.F.F.

6" CONT. CABLE TRAY
X5 MTD. 8'-0" A.F.F.

6" CONT. CABLE TRAY
X3 MTD. 8'-0" A.F.F.

D.C. SWGR. (FRONT)

EMERGENCY TRIP SW.
RELAY CAB.

INSULATING TOPPING

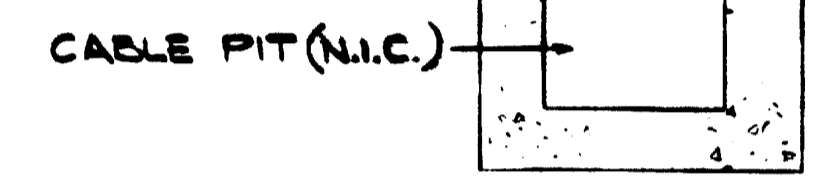
LOAD MEASURING
RESISTOR

1" C. 7/8"

6" X 6" X 4" SPLICE BOX

2" C. 7/8" ALS

RUN 7/8" ALS IN SPARE
CONDUIT FOR EMERG.
TRIP SWITCH.



SECTION A-A
SCALE: 1/4" = 1'-0"

NOTES:

- FOR GENERAL NOTES (LEGEND) SEE DWG. SSI6-E-1.
- FOR GENERAL DETAILS SEE DWG'S. SSI6-E-6, 7, 8, 9 & E-10.
- CONTRACTOR SHALL REMOVE (RELOCATE TWO) EXISTING LIGHTING FIXTURES THAT INTERFERE WITH CABLE TRAYS X1 & X2.
- CONTRACTOR TO CORE DRILL A 2" HOLE FOR EMERG. TRIP SW. CONDUIT.
- CONTRACTOR SHALL CONNECT WIRES IN EXISTING JUNCTION BOX (FOR BATTERY CHARGER).
- CONTRACTOR SHALL CONNECT TO TWO EXIST. SPARE 20A, 1P CKT. BKRS. IN EXIST. 120V PANEL (FOR INVERTER & D.C. SWGR. HTR.).
- FOR MISCELLANEOUS DETAILS SEE DWG. SSI6-E-13.
- SEALING BUSHINGS FOR CONDUITS IN THESE DUCTBANKS SHALL BE OF TYPE "CSD-1" OR APPROVED EQUAL. BUSHING FOR CONDUITS IN WHICH CABLES ARE TO BE INSTALLED SHALL BE SEGMENTAL DESIGN WITH ALUMINUM DISCS AND WITH HOLES TO SUIT CABLE DIAMETERS. BUSHING FOR UNUSED CONDUITS SHALL BE LEFT BLANK.

CONDUIT & CABLE TRAY PLAN

3/4" AL. MA-1 TO D.C. SWGR.
UNIT #2 TBKR #4

TRACTION PWR. DUCTBANK
(N.I.C.) TYPICAL FOR 3

CABLE PIT & COVER (N.I.C.)

24" POSITIVE CABLE TRAY X1

24" POSITIVE CABLE TRAY X2

3/4" AL. MA-8 TO D.C. SWGR.
UNIT #1, TBKR #1

INSULATING TOPPING

6" CONTROL CABLE TRAY X5

6" CONTROL CABLE TRAY X5

ANNUNCIATOR PANEL

ANNUNCIATOR HORN

1/8" BARE GRD. WIRE TO ANNUN. PNL.

3/4" AL. 1/8" 600V INSUL. TO CABLE
TRAY GRD. WIRE.

EXISTING 480V PANEL LTH.

EXISTING 120V LOAD CENTER LTL.

EXISTING 1/4" x 2" GRD. BUS MTD. 24" A.F.F.
UNLESS OTHERWISE NOTED

EXIST. 1/4" x 2" GRD. BUS MTD. 8'-6"
A.F.F. ON SOUTH & WEST WALLS

1/8" BARE GRD. WIRE TO 20A, 1P 120V CKT. BKR.
20A, 1P 120V CKT. BKR.

1/8" BARE GRD. WIRE TO D.C. TO A.C. INVERTER

D.C. TO A.C. INVERTER

3/4" AL. 1/8" 600V INS. TO CABLE TRAY GRD. WIRE

D.C. DISTRIBUTION PNL. DC-1LHR

1/8" BARE GRD. WIRE TO D.C. DISTRIBUTION PNL.

1/8" BARE GRD. WIRE TO BATTERY

BATTERY RACK & BATTERIES

6" CONTROL CABLE TRAY X6

1/8" BARE GRD. WIRE IN CABLE TRAY AS NOTED

6" CONTROL CABLE TRAY X4

1/8" BARE GRD. WIRE TO BATTERY CHARGER

BATTERY CHARGER

BOLTED CONNECTION (TYP.)

1/8" BARE GRD. WIRE TO DATA TRANSMISSION
SYSTEM CAB.

DATA TRANSMISSION SYSTEM CAB.

1/8" BARE GRD. WIRE TO EMERG. TRIP
SW. RELAY CAB.

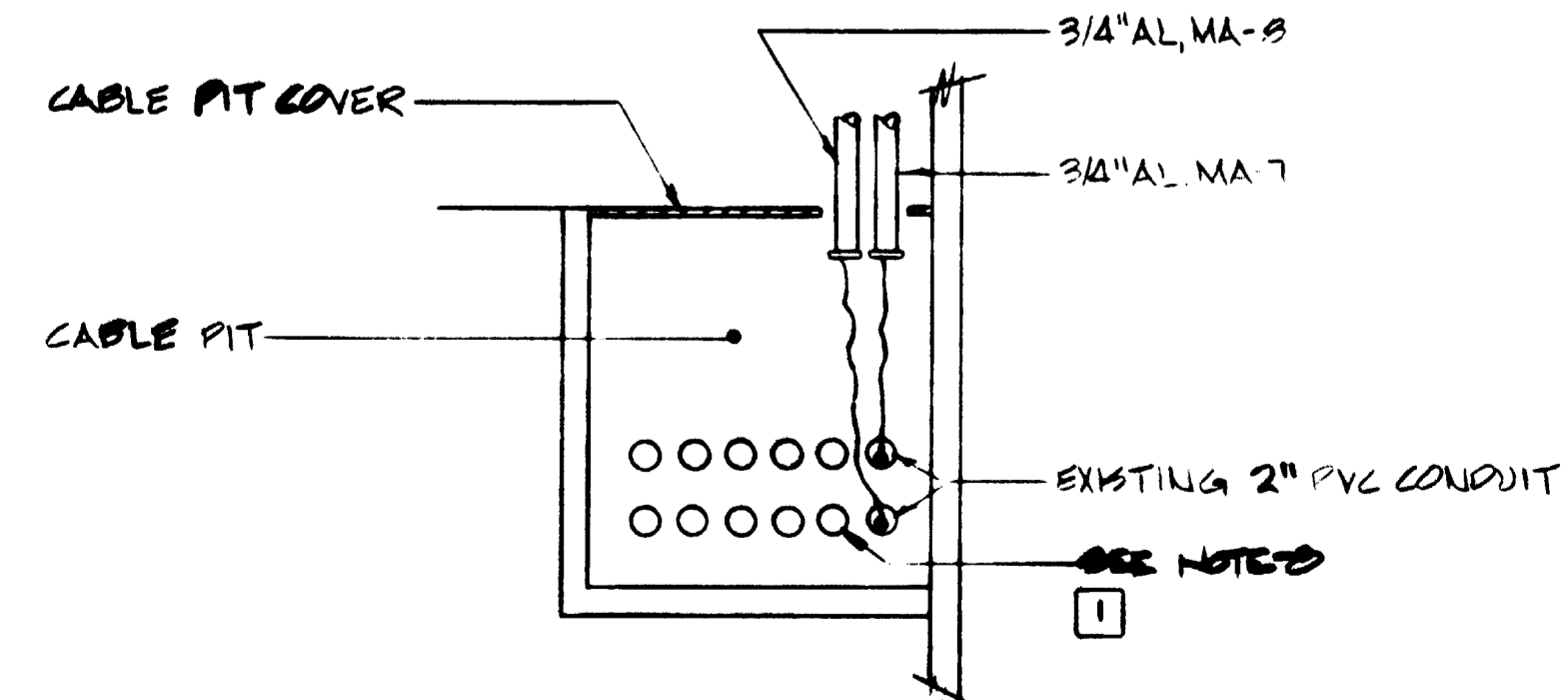
EMERG. TRIP SW. RELAY CAB.

D.C. CKT. BKR. TEST CAB.

1/8" BARE GRD. WIRE TO D.C.
CKT. BKR. TEST CAB.

GROUNDING PLAN

NO. DC-1LHR				LOCATION: TIE BREAKER STATION			
125 V, D.C.		2 W 100 A MAINS,		SURFACE MTG. —		100A 2P MAIN	
10,000 A AIC BKRS. @ 120 V;						CKT. BKR.	
DESIGNATION	LOAD WATTS	CKT. BKR. TRIP NO.	NO. TRIP	LOAD WATTS	DESIGNATION	LOAD WATTS	CKT. BKR. TRIP NO.
D.C. SWGR. CONT. PNL.	-	45	1	2	15	-	ANNUNCIATOR PNL.
D.C. CKT. BKR. TEST CAB.	-	30	3	4	30	-	EMERG. TRIP SW. RELAY CAB.
D.C. TO A.C. INVERTER	-	15	5	6	15	-	SPARE
SPARE	-	15	7	8	15	-	SPARE



SECTION C-C
SCALE: NONE

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
WGM	8/10/81			4-13-81	JFF	CHANGED HEIGHTS OF CABLE TRAY X1 FROM 11'-0" TO 10'-6" A.F.F. & X2 FROM 9'-6" TO 9'-0" A.F.F.
REVIS	8/10/81			11-25-81	MP	REV. FOR P.C. 27, 28-BUILT



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

JACKSON & MORELAND
STAGE DESIGNER

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

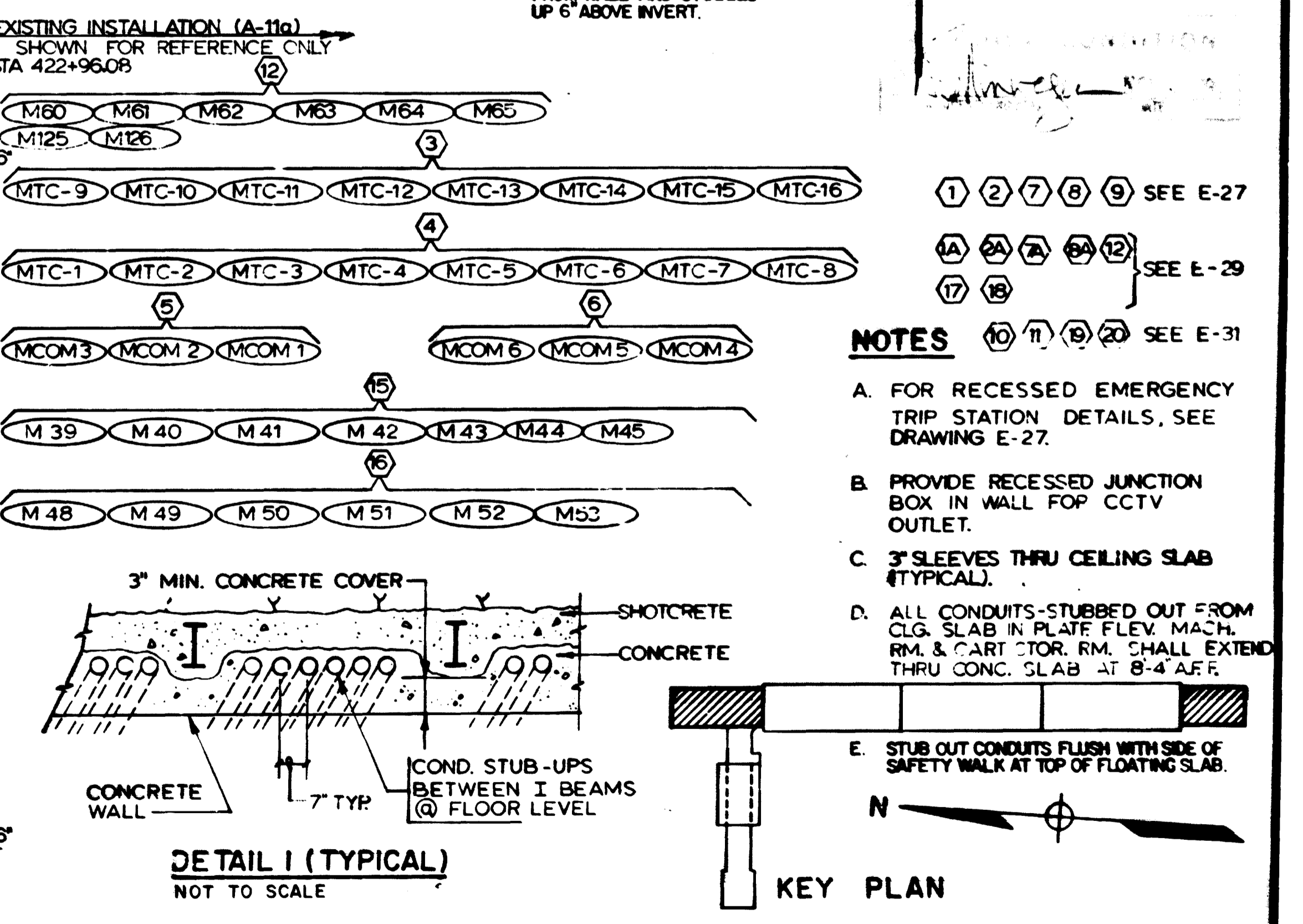
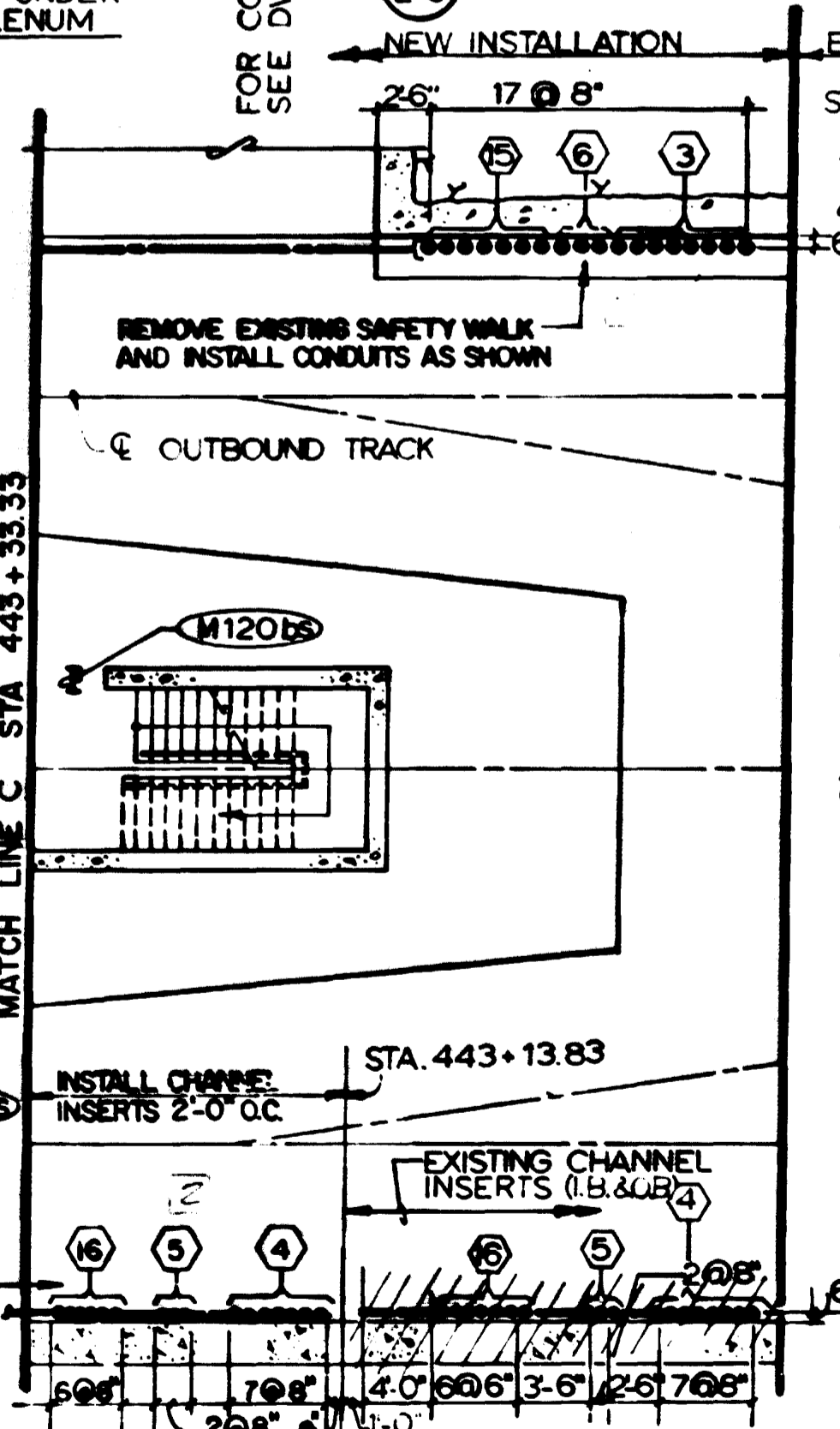
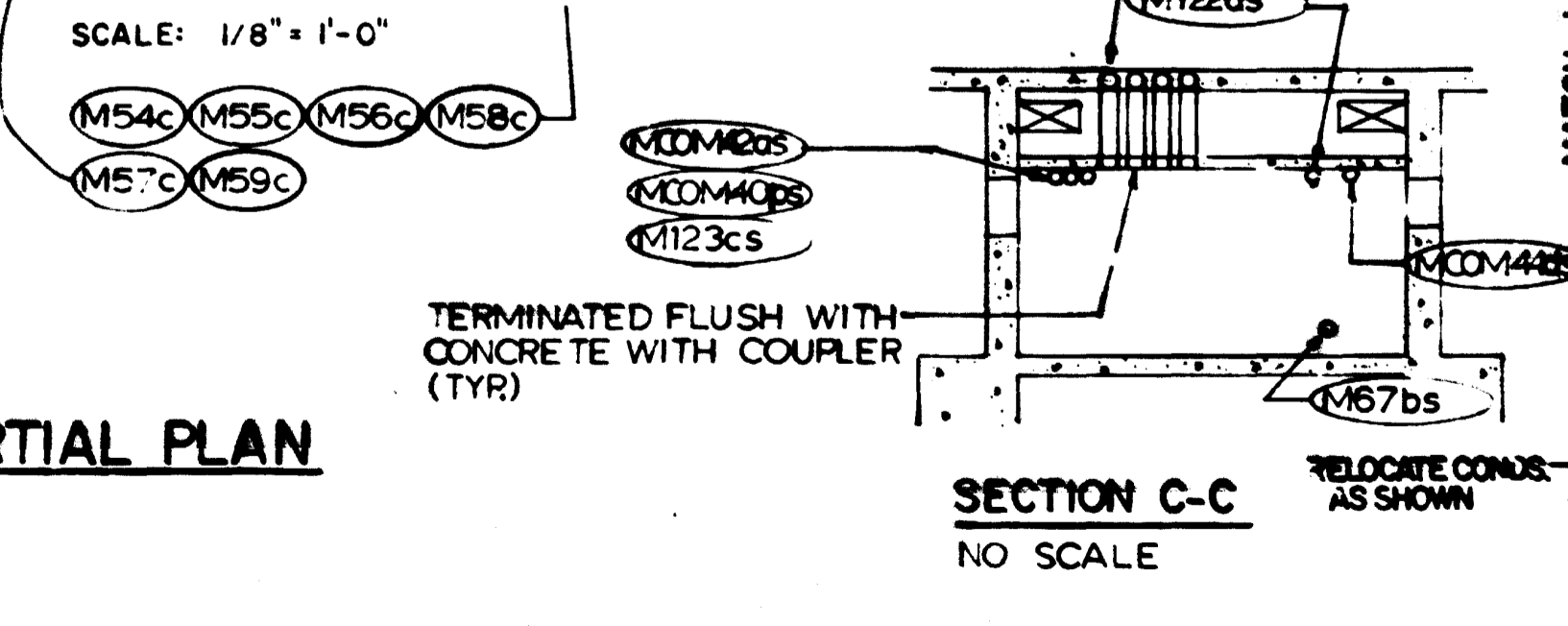
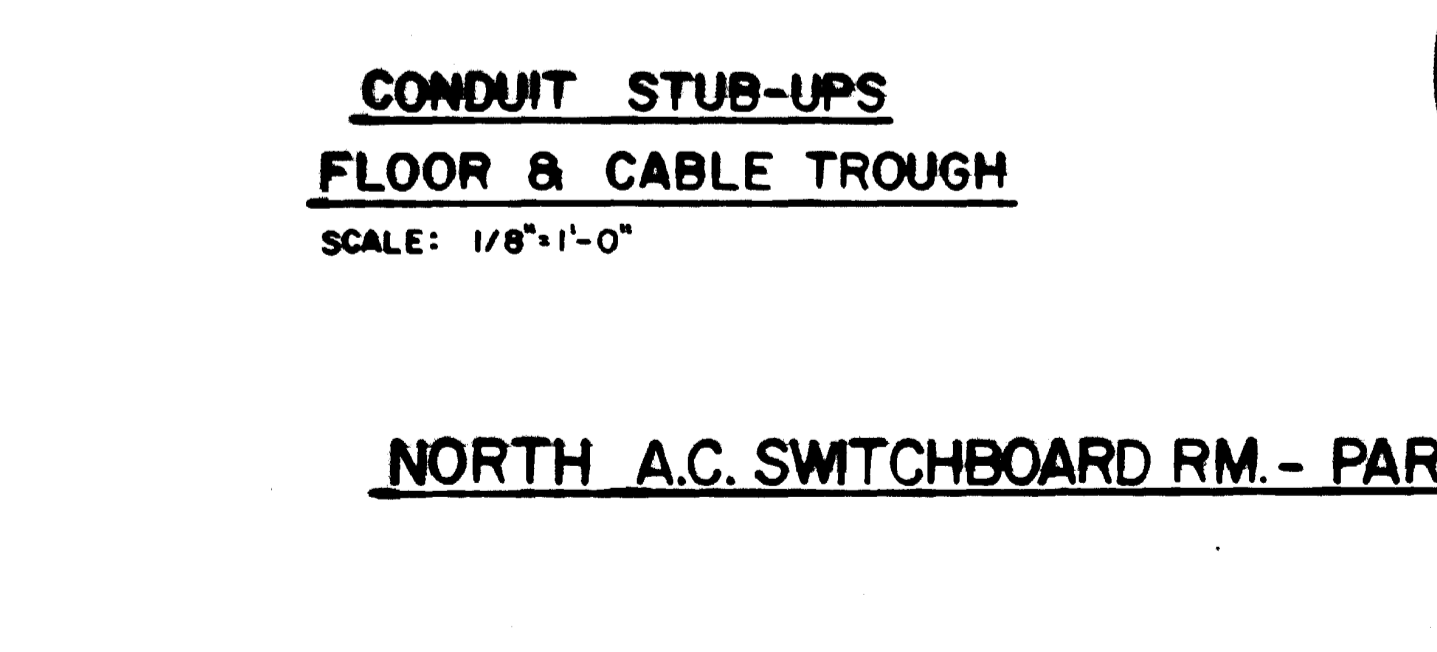
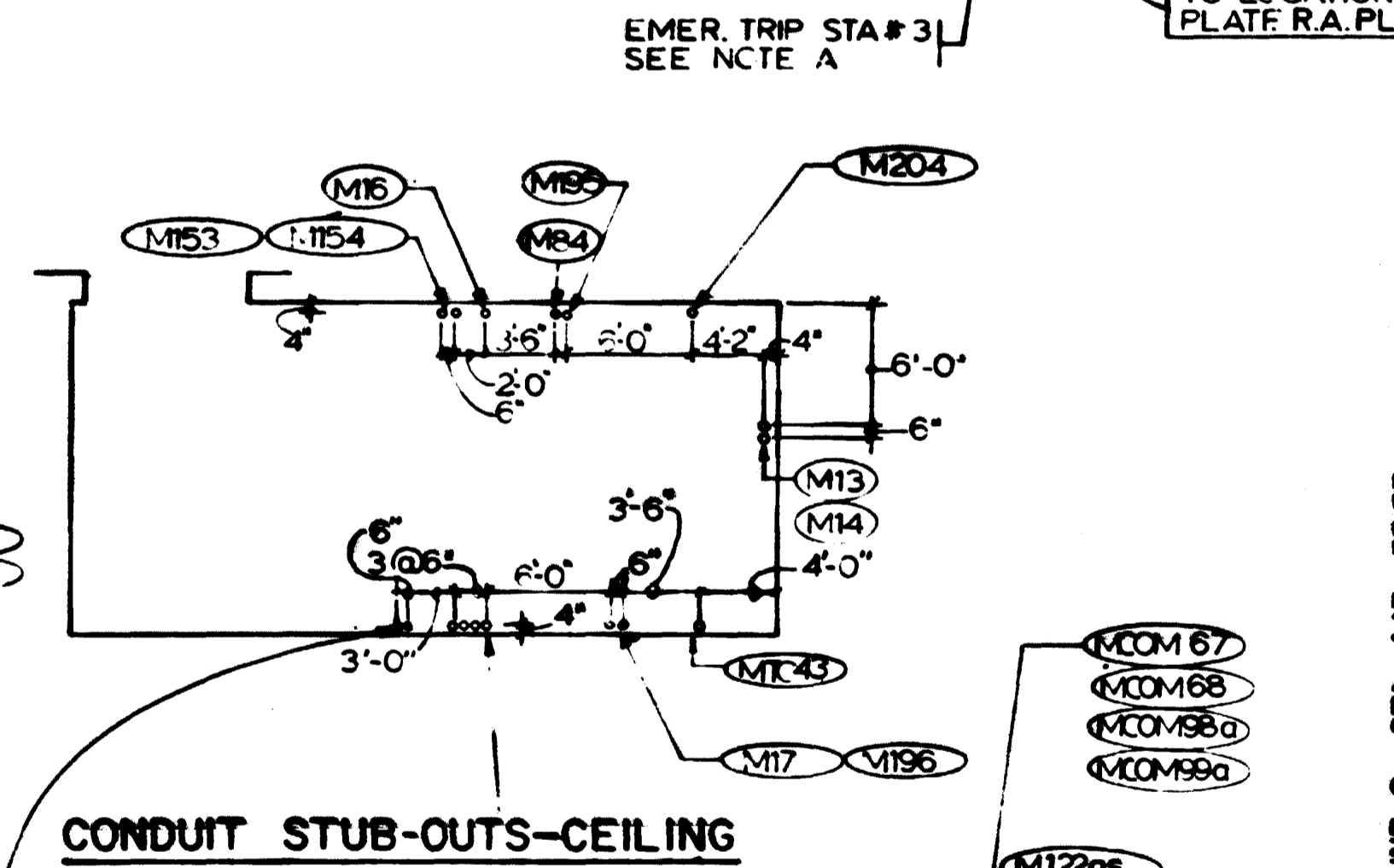
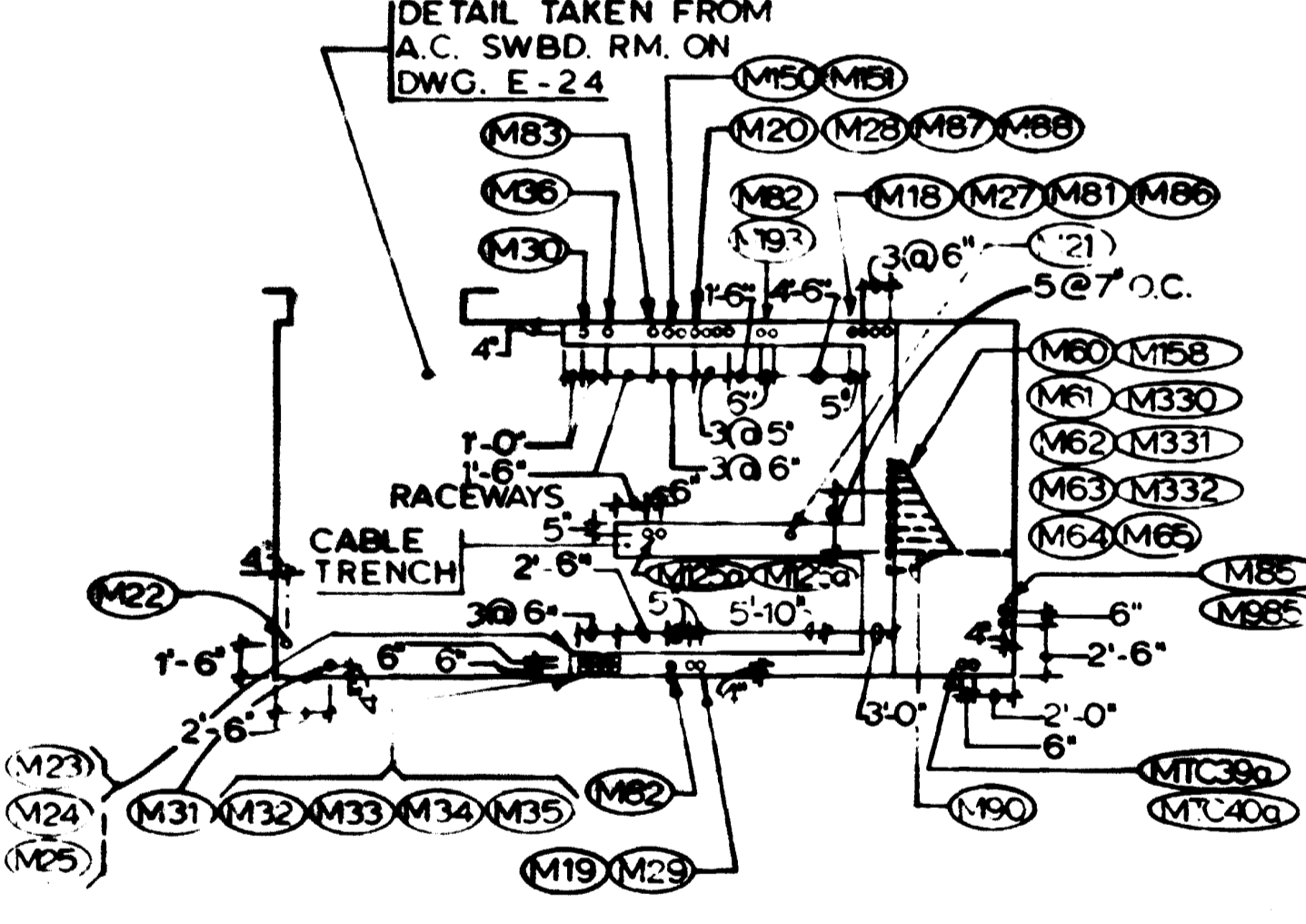
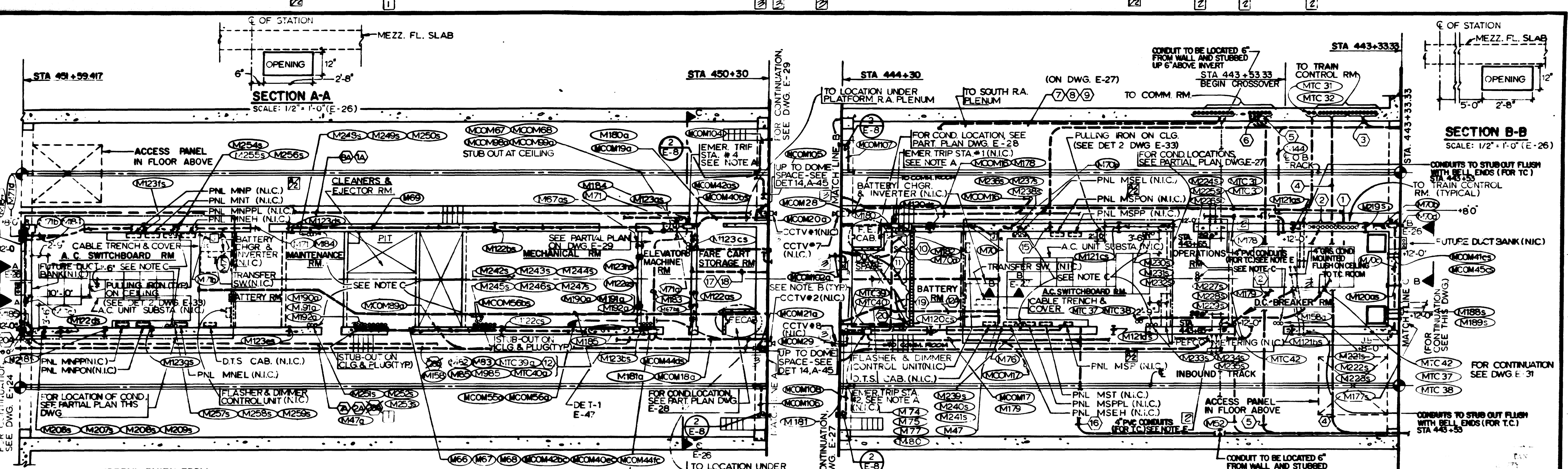
APPROVED: *Paul H. ...*

SUBSTATION INSTALLATION SSI-6
LOCUST HILL ROAD TIE BREAKER STATION
CONDUIT & CABLE TRAY & GROUNDING

SCALE: 1/4" = 1'-0"

DRAWING NO. SSI6-E-51

M427-51



- NOTES**
- 1 2 7 8 9 SEE E-27
 - 10 11 19 20 SEE E-31
 - 12 13 14 15 16 17 18 SEE E-29
- A. FOR RECESSED EMERGENCY TRIP STATION DETAILS, SEE DRAWING E-27.
 - B. PROVIDE RECESSED JUNCTION BOX IN WALL FOR CCTV OUTLET.
 - C. 3" SLEEVES THRU CEILING SLAB (TYPICAL).
 - D. ALL CONDUITS-STUBBED OUT FROM CLG. SLAB IN PLATE FLEV. MACH. RM. & CART STOR. RM. SHALL EXTEND THRU CONC. SLAB AT 8'-4" A.F.F.
 - E. STUB OUT CONDUITS FLUSH WITH SIDE OF SAFETY WALK AT TOP OF FLOATING SLAB.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
A. MALLARI	1-2-75	S-216	N SERVICE AREA PLAN	7-10-78	H.Z.	DELETED PANELS
ELENA ROCHA	1-2-75	S-239	S SERVICE AREA PLAN	1-20-83	M.D.	1. RELETED PER PCD 27, DO. BUILT
F.S. CHU	7-15-77	A-5	ANCL. SPACES - PLATF. LEVEL			2. REV. PER PCD 31, AS-BUILT
H.B. ZACKRISON	7-15-77	A-18	ANCL. ELEVATION			3. REV. PER PCD 33, AS-BUILT
		M-20	N ANCL. SPACES - PLATF. LEVEL			
		M-24	S ANCL. SPACES - PLATF. LEVEL			



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS
SECTION DESIGNER

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEISS & ASSOCIATES
GENERAL ENGINEERING CONSULTANT

DATE 5/15/78

ROCKVILLE ROUTE
MEDICAL CENTER STATION
NORTH & SOUTH ANCILLARY SPACES - PLATFORM LEVEL

SCALE: 1/8" = 1'-0" 1 0 2 4 6 8 10 AND AS NOTED

DRAWING NO. A11c-E-26 M277-279



6" CONTROL CABLE TRAY
"X3" MTD. 8'-0" A.F.F.
D.C. TO A.C. INVERTER
1 1/2" C. AC-3, AC-4
3/4" C. DC-5
D.C. DISTRIBUTION PNL. DC-IMC
1 1/2" C. DC-4, DC-5, DC-6, DC-7
1" C. DC-3

1 1/2" C. AC-5 TO EXIST. 120V PNL
"SPPL" IN SOUTH A.C. SWBD. RM. SEE
DWG. FAI2-E-42 (APPROX. 60' RUN)

6" CONT. CABLE TRAY
"X5" MTD. 8'-0" A.F.F.
3/4" C. DC-1
BATTERY CHARGER
1" C. AC-1 TO EXISTING 480V PNL.
"SP" IN SOUTH A.C. SWBD. RM. SEE
DWG. FAI2-E-42 (APPROX. 50' RUN)

2" C. AN-2, AN-3, SC-7, DC-5
3/4" C. AN-5
ANNUNCIATOR HORN MTD. 7'-0" A.F.F.
ANNUNCIATOR PNL.
1" C. 7/8" #12 TO EMERG. TRIP SW. RELAY CAB.
7/8" #12 IN EXISTING CONDUIT *M179 FOR
CONTINUATION SEE DWG. SSI6-E-140

7/8" #12 IN EXISTING CONDUIT *M52 FOR
CONTINUATION SEE DWG. SSI6-E-140

1 1/2" BARE GRD. WIRE TO D.C. TO A.C. INVERTER
D.C. TO A.C. INVERTER
6" CONTROL CABLE TRAY
"X3" MTD. 8'-0" A.F.F.
1 1/2" BARE GRD. WIRE TO D.C.
DISTRIBUTION PNL.
D.C. DISTRIBUTION PNL. "DC-IMC"

3/4" AL. #6, 600V INS. TO CABLE
TRAY GRD. WIRE

1 1/2" BARE GRD. WIRE TO BATTERY RACK
BATTERY RACK & BATTERIES
6" CONT. CABLE TRAY "X4"

1 1/2" BARE GRD. WIRE RUN IN
CABLE TRAY AS INDICATED
6" CONT. CABLE TRAY "X6"

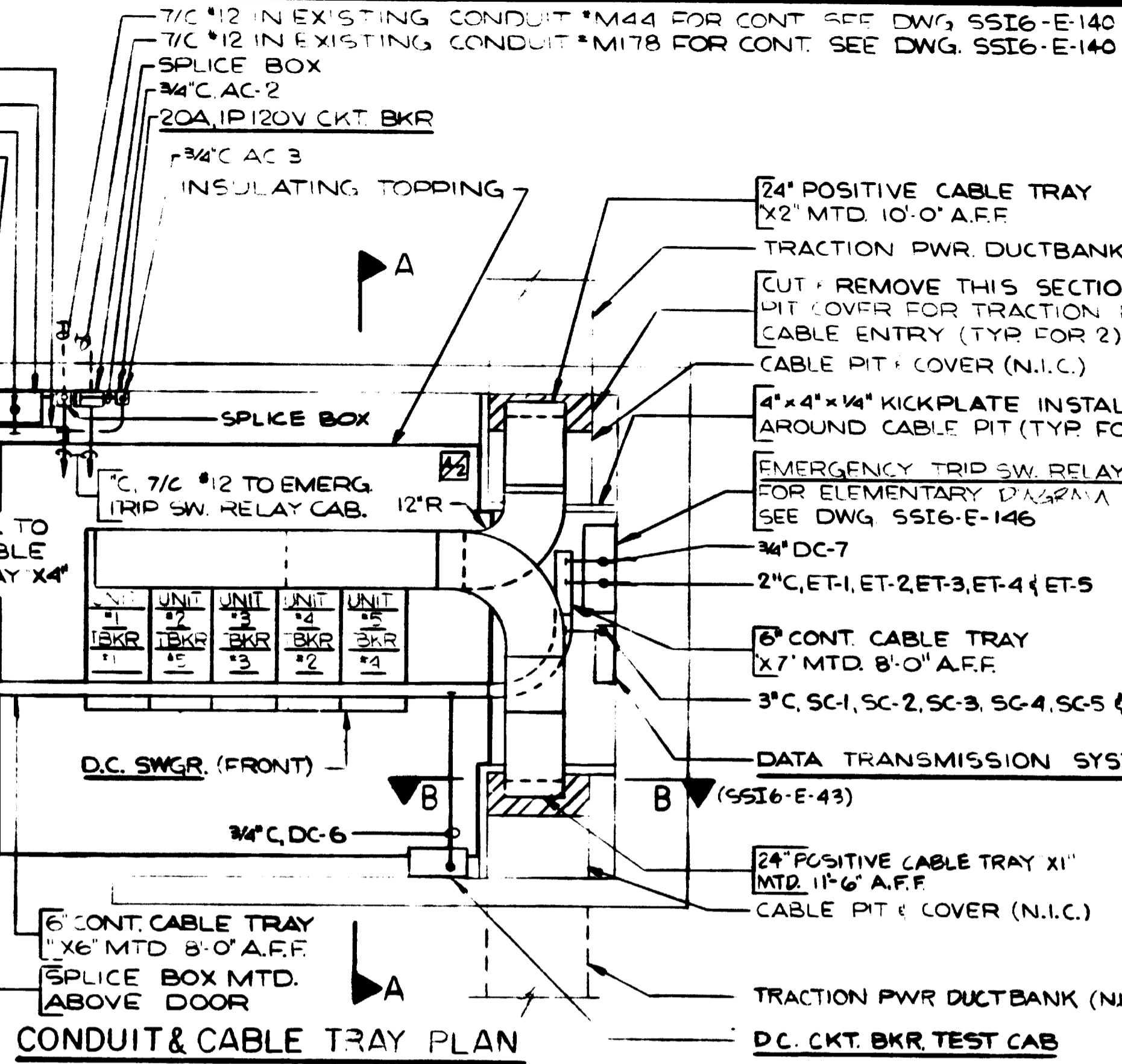
6" CONT. CABLE TRAY "X5"

1 1/2" BARE GRD. WIRE TO
BATTERY CHARGER
INSULATING TOPPING

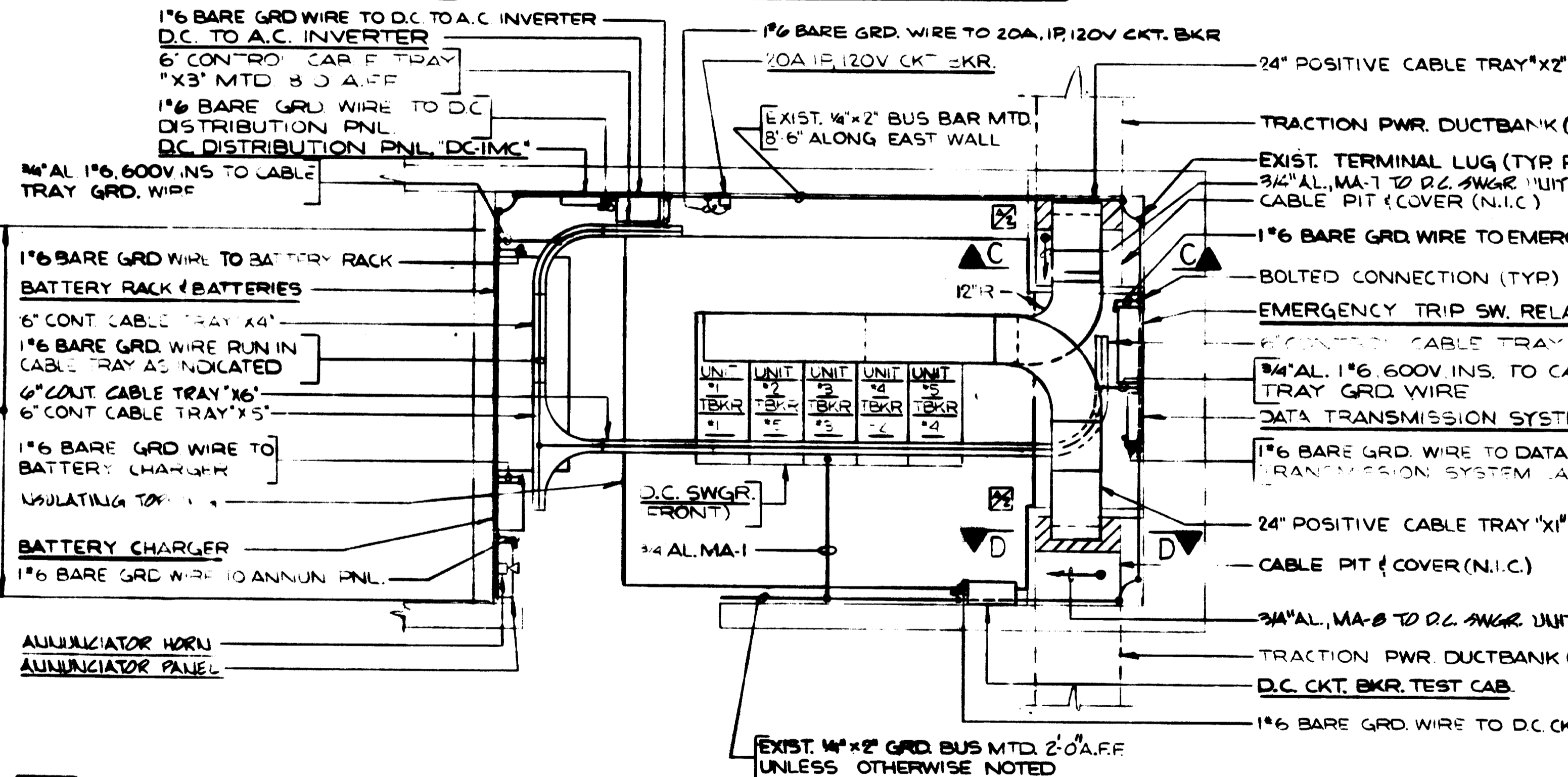
BATTERY CHARGER

1 1/2" BARE GRD. WIRE TO ANNUN. PNL.
ANNUNCIATOR HORN
ANNUNCIATOR PNL.

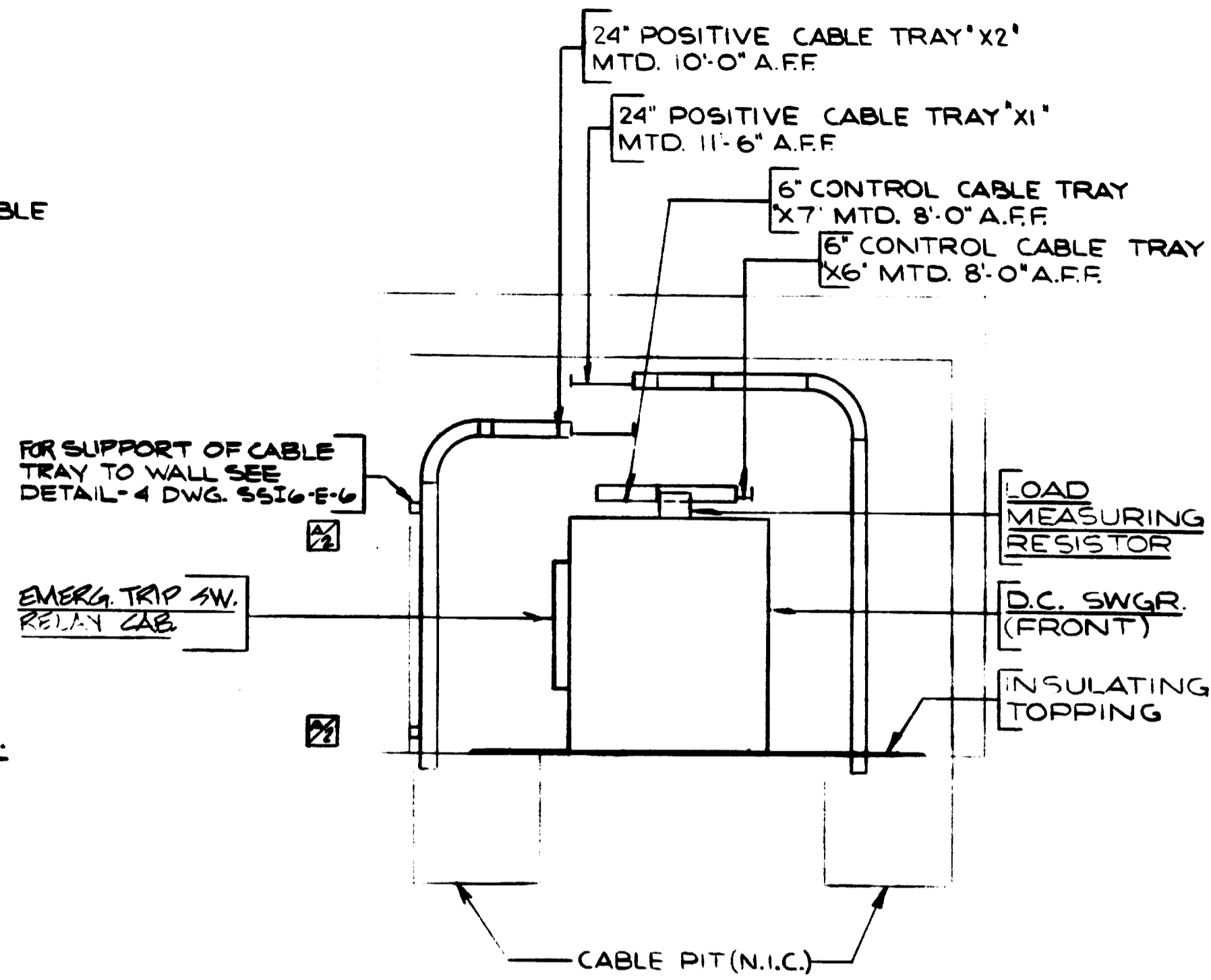
CONTRACTOR TO RELOCATE THIS
SECTION OF GRD. BUS 8'-6" A.F.F.



CONDUIT & CABLE TRAY PLAN



GROUNDING PLAN

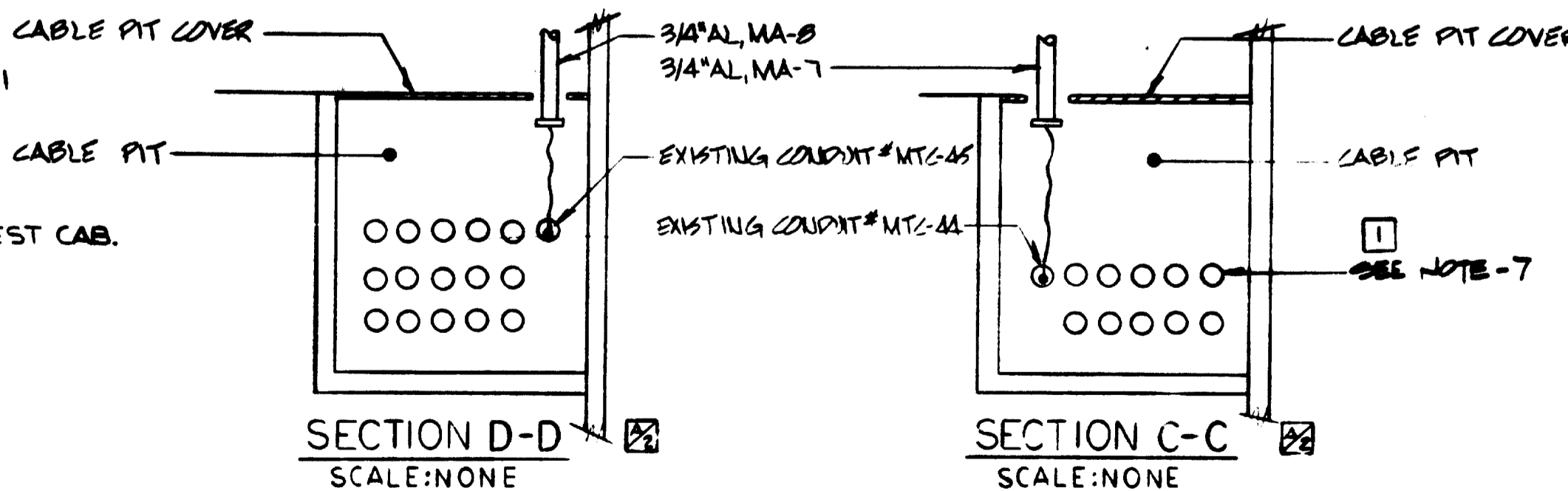


SECTION A-A
SCALE: 1/4" = 1'-0"

- NOTES:**
- FOR GENERAL NOTES & LEGEND SEE DWG. SSI6-E-1.
 - FOR GENERAL DETAILS SEE DWG'S. SSI6-E-6, 7, 8, 9 & E-10.
 - CONTRACTOR SHALL REMOVE & RELOCATE TWO (2) EXISTING LIGHTING FIXTURES THAT INTERFERE WITH CABLE TRAYS X1 & X2.
 - CONTRACTOR SHALL CONNECT TO EXISTING 20A, 1P CKT. BKR. CKT. #10 (FOR BATTERY CHARGER) IN EXISTING 480V PNL. "SP" IN SOUTH A.C. SWBD. RM.
 - CONTRACTOR SHALL CONNECT TO EXISTING SPARE 20A, 1P CKT. BKR. #5 (FOR INVERTER); SPARE 20A, 1P CKT. BKR. #7 (FOR D.C. SWGR. HTRS) IN EXISTING 120V PNL. "SPPL" IN SOUTH A.C. SWBD. RM.
 - FOR MISCELLANEOUS DETAILS SEE DWG. SSI6-E-43.
 - SEALING BUSHINGS FOR CONDUITS IN THESE ELECTRICAL SHALL BE Q2, TYPE "CS20" OR APPROVED EQUAL. BUSHINGS FOR CONDUITS IN WHICH CABLES ARE TO BE INSTALLED SHALL BE SEGMENTAL DESIGN WITH ALUMINUM DISCS AND WITH HOLES TO SUIT CABLE DIAMETERS. BUSHINGS FOR UNUSED CONDUITS SHALL BE LEFT BLANK.

NO. DC-IMC LOCATION: TIE BREAKER STATION

DESIGNATION	LOAD WATTS	NO. OUT. LETS	CKT. BKR. NO.	TRIP	NO. OUT. LETS	CKT. BKR. NO.	TRIP	LOAD WATTS	DESIGNATION
D.C. SWGR. CONT. PWR.	-	-	45	1	2	15	-	-	ANNUNCIATOR PNL.
D.C. CKT. BKR. TEST CAB.	-	-	30	3	4	30	-	-	EMERG. TRIP SW. RELAY CAB.
D.C. TO A.C. INVERTER	-	-	15	5	6	15	-	-	SPARE
SPARE	-	-	15	7	8	15	-	-	SPARE



AS-BUILT CONDITION
DATE: FEB 27 1981
DRAWN BY: [Signature]

DESIGNED	DATE	REFERENCE DRAWINGS	REVISIONS
WGM	4/15/81		
DRAWN	4/17/81		
CHECKED	4/21/81		
APPROVED	4/21/81		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

JACKSON & MORELAND
STAGE DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

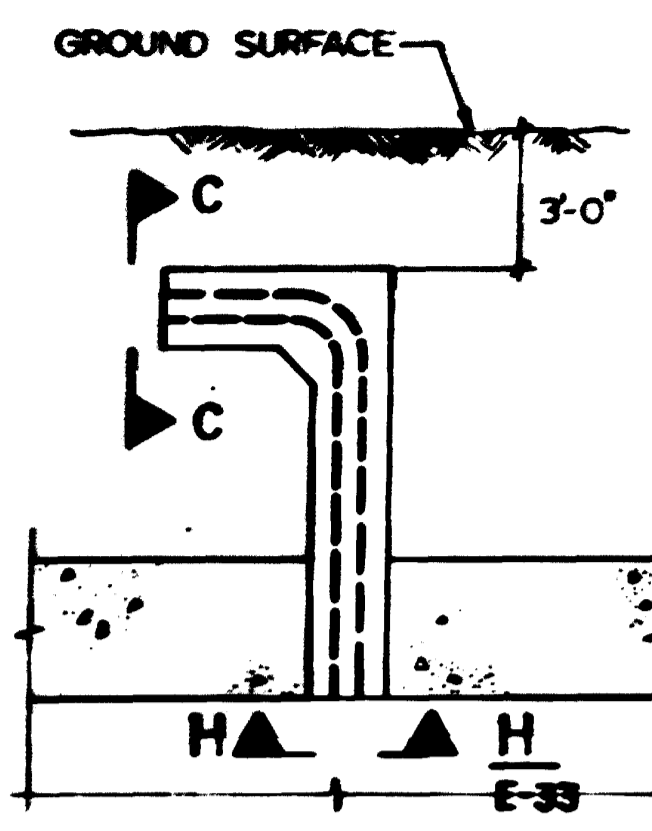
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

DATE: 4-13-81 BY: J.F.F. DESCRIPTION: SHOW WALL MTD. SUPPORT FOR CABLE TRAY, DELETED SECTION C-C, CHANGED SECTION D-D TO C-C & SECTION E-E TO D-D

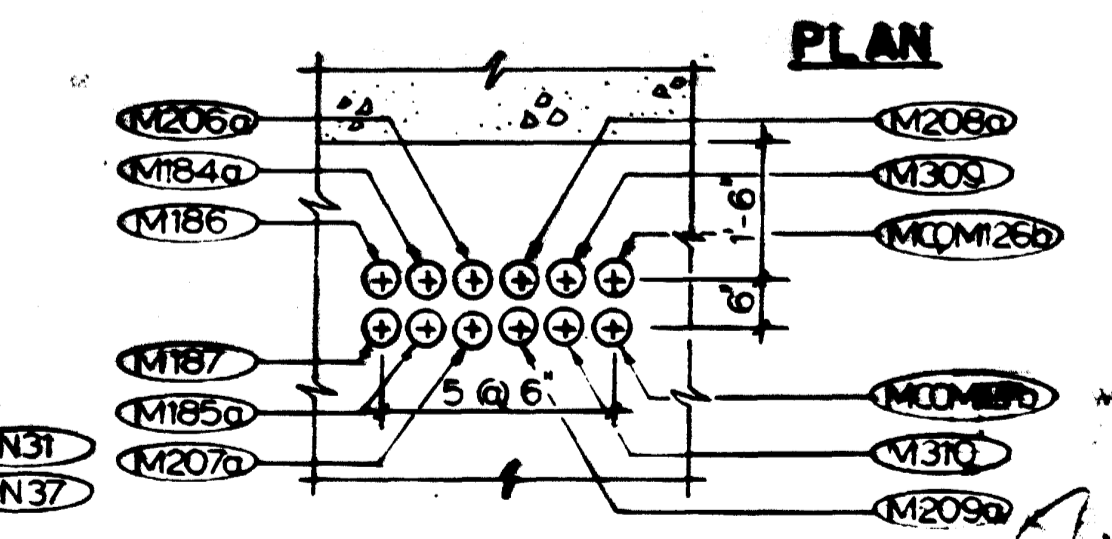
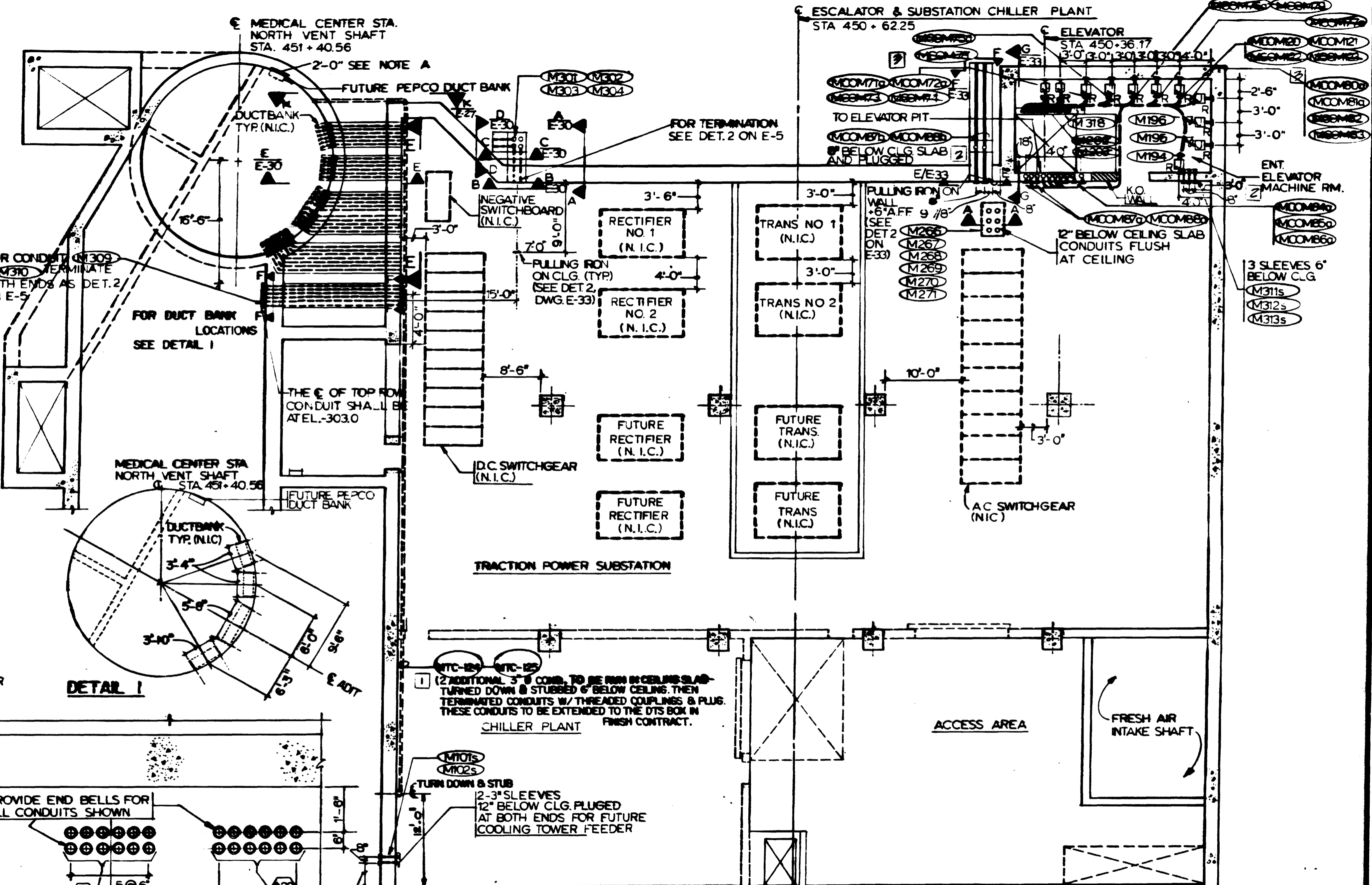
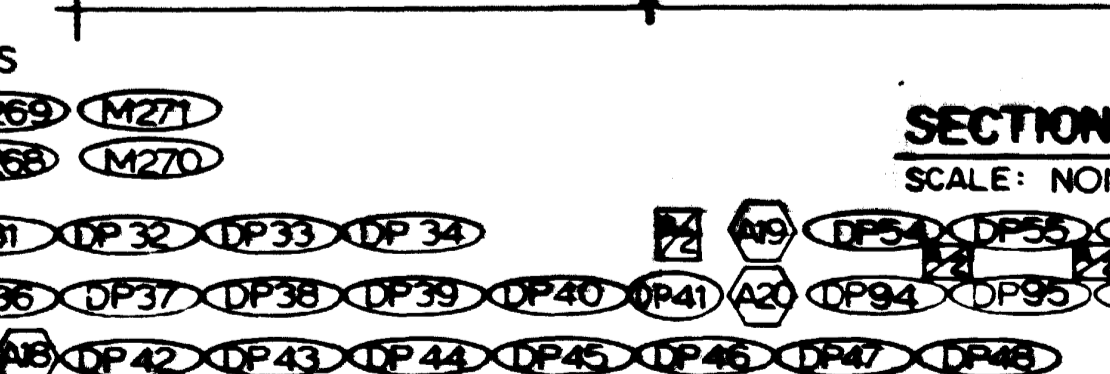
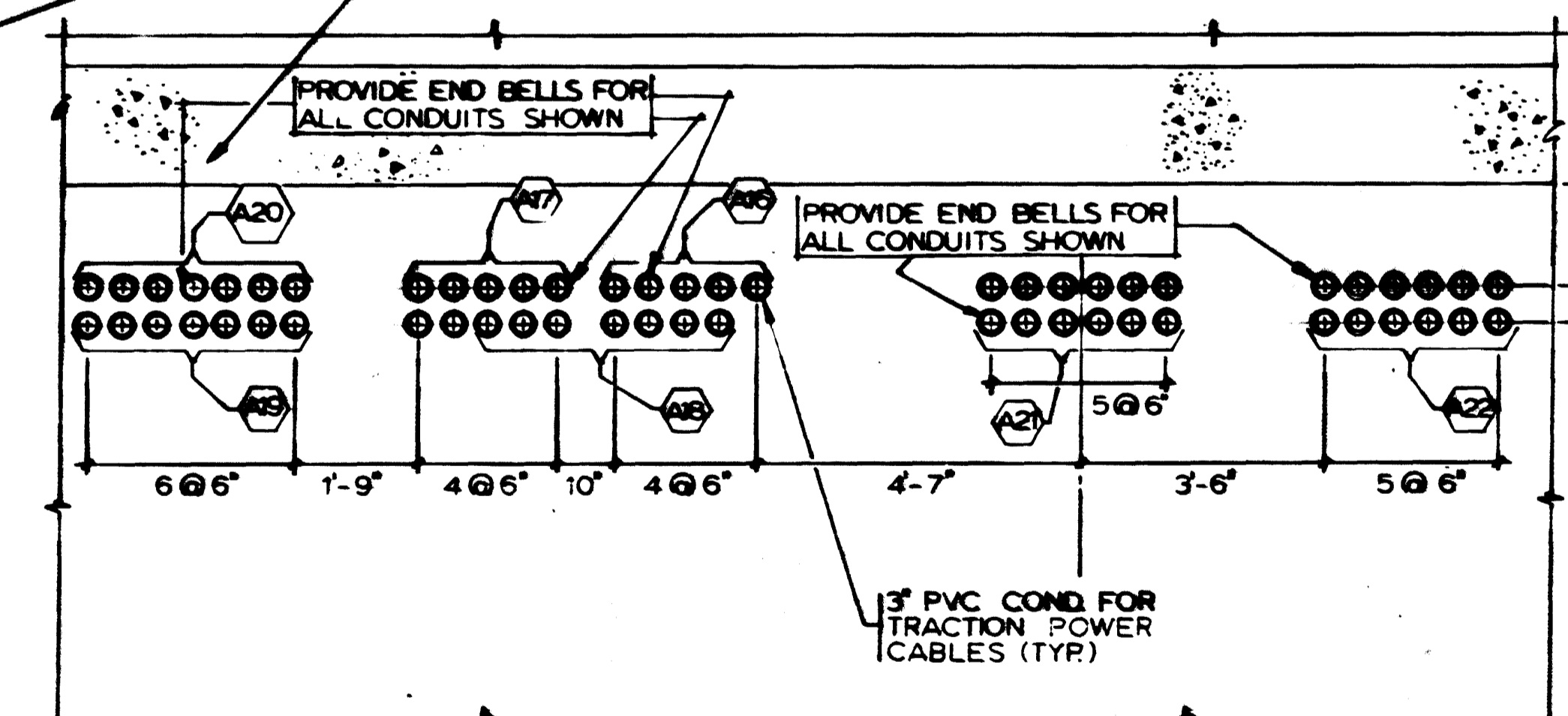
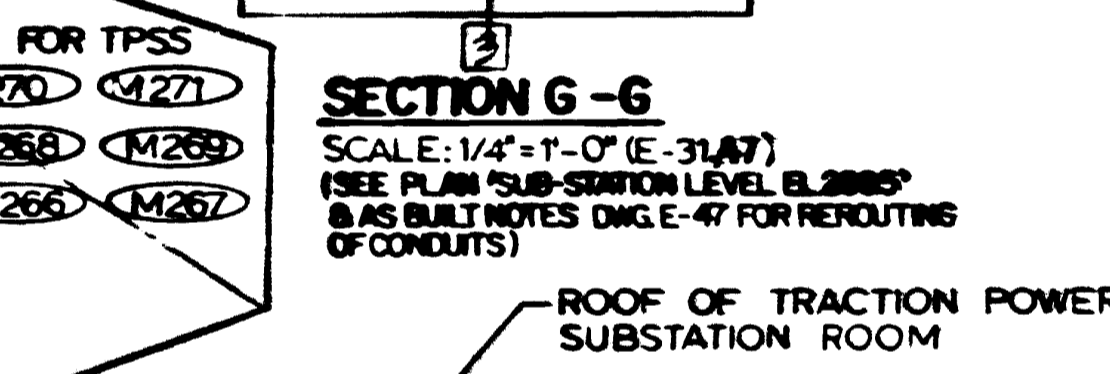
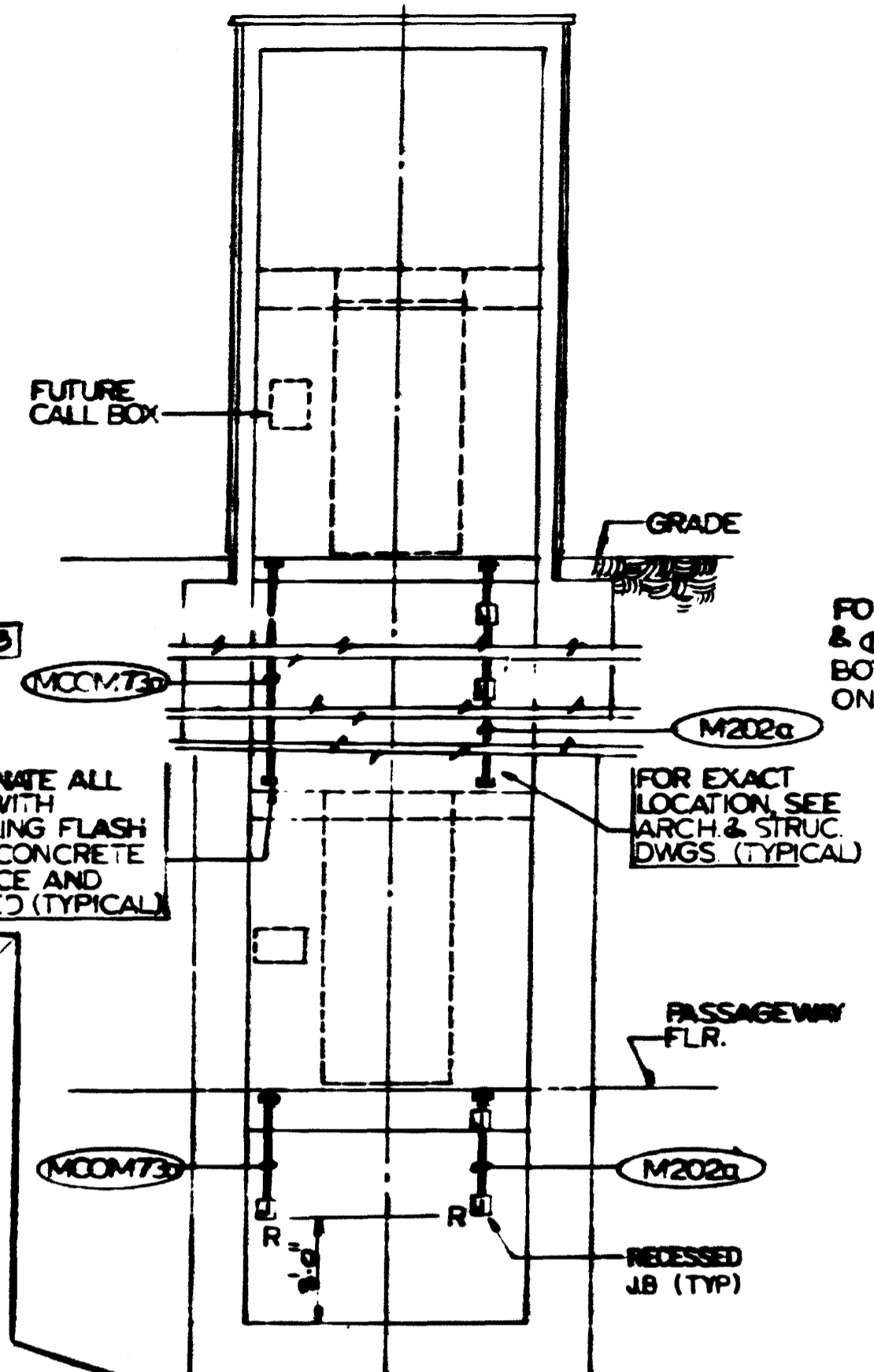
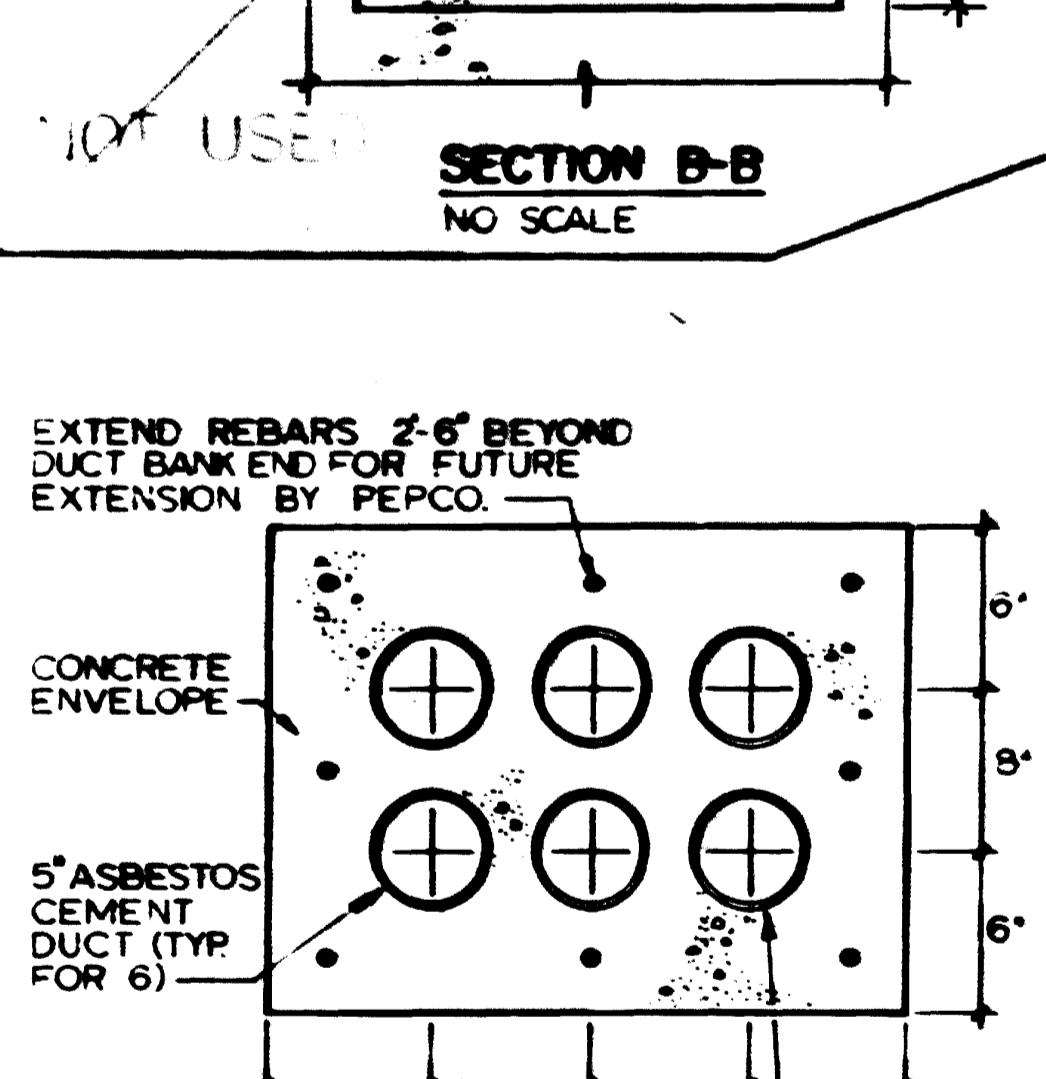
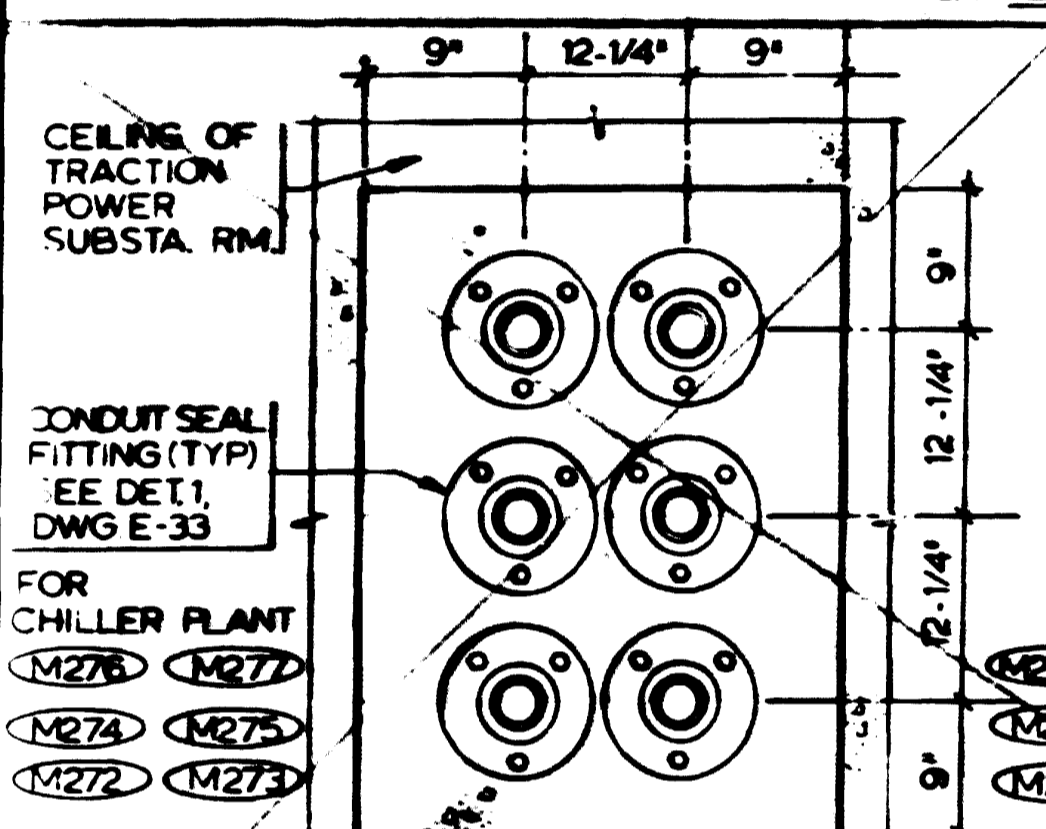
SUBSTATION INSTALLATION SSI-6
MEDICAL CENTER TIE BREAKER STATION
CONDUIT & CABLE TRAY & GROUNDING

SCALE: 1/4" = 1'-0"

DRAWING NO. SSI6-E-41 M427-41



TERMINATE ALL CONDUIT WITH COUPLING FLASH WITH CONCRETE SURFACE AND CAPPED (TYPICAL)



NOTE
 A. PROVIDE CHANNEL INSERTS, LENGTH AS SHOWN, FROM ROCK LINE TO TOP OF SHAFT AT 24" OC. (VERTICALLY MEASURED) FOR FUTURE DUCT BANK INSTALLATION.
 B. SEE DWG. E-37 FOR TRACTION POWER CONDUIT SCHEDULE

KEY PLAN

NOV 23 1983

DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
P.S. CHU	12-1-78	S-110	ENT. @ SUBSTA. PLAN	7-10-78	N.Z.	CHANGED CONDUIT LABELS
E. ROOM	12-6-78	M-15	SUBSTA., CHILLER PLANT, PLAN & SECT.	9-29-83	MD	1 REV PER REV 27, 28 - BUILT
P.S. CHU	7-15-77	A-GI	TRACTION PWR. SUBSTATION			2 REV PER FIELD COND. AS-BUILT
H.B. ZACHARSON	7-15-77					3 REV PER REV. 13, 20 - BUILT



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
 ENGINEERS AND ARCHITECTS
 SECTION DESIGNER

DE LEUW, CATHEN & COMPANY
 GENERAL ENGINEERING CONSULTANT

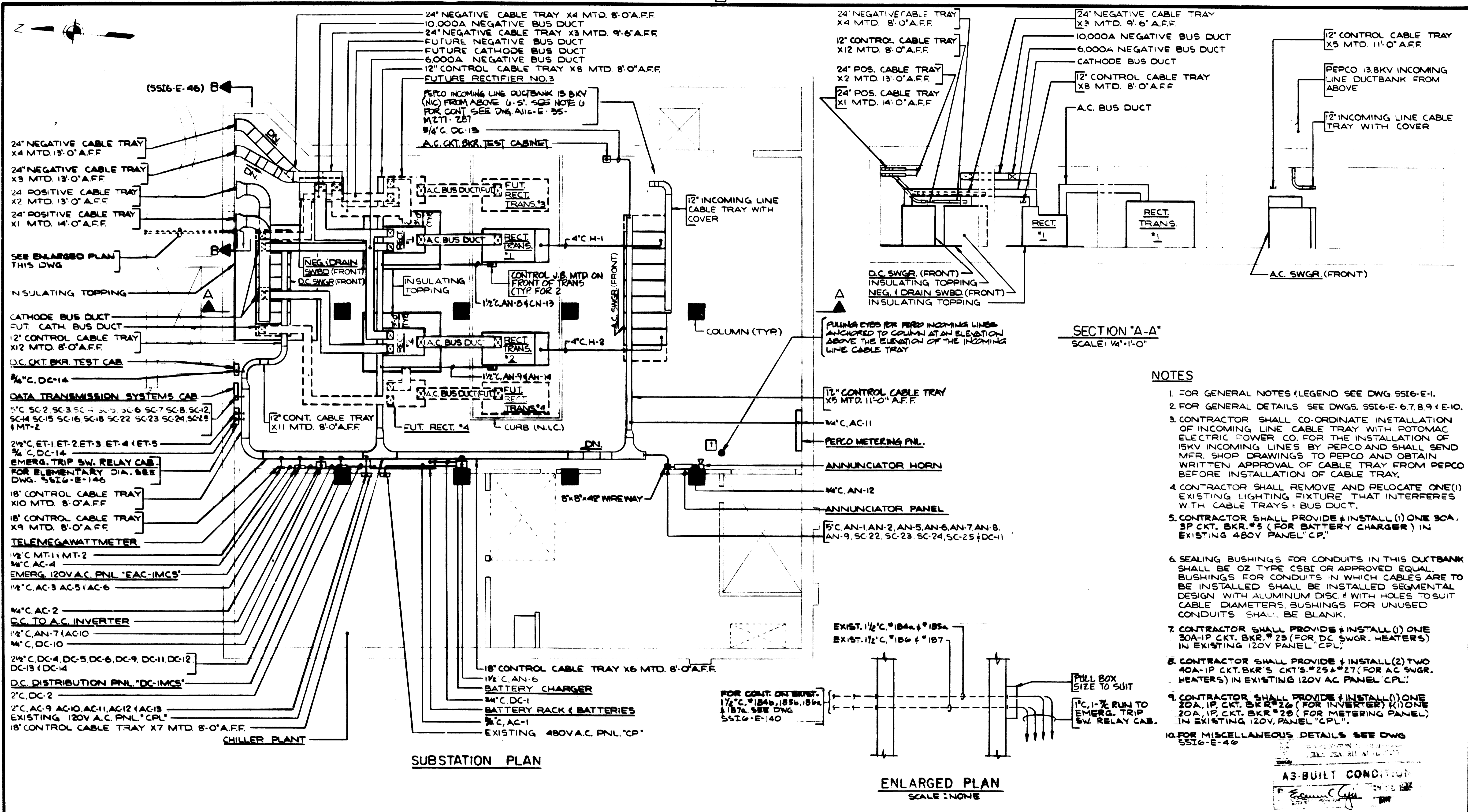
HARRY WEISS & ASSOCIATES
 GENERAL ENGINEERING CONSULTANT

SUBMITTED *George P. Press* DATE 5/15/78 APPROVED *Robert...*

**ROCKVILLE ROUTE
 MEDICAL CENTER STATION
 TRACTION POWER SUBSTATION & CHILLED WATER PLANT**

SCALE 1/8"=1'-0" 1 2 4 6 8 10 AND AS NOTED

DRWG. NO. **A11c-E-35** M277-287



SECTION "A-A"
SCALE: 1/4"=1'-0"

NOTES

- FOR GENERAL NOTES (LEGEND SEE DWG. SSI6-E-1).
- FOR GENERAL DETAILS SEE DWGS. SSI6-E-6, 7, 8, 9 & E-10.
- CONTRACTOR SHALL CO-ORDINATE INSTALLATION OF INCOMING LINE CABLE TRAY WITH POTOMAC ELECTRIC POWER CO. FOR THE INSTALLATION OF 15KV INCOMING LINES BY PEPCO AND SHALL SEND MFR. SHOP DRAWINGS TO PEPCO AND OBTAIN WRITTEN APPROVAL OF CABLE TRAY FROM PEPCO BEFORE INSTALLATION OF CABLE TRAY.
- CONTRACTOR SHALL REMOVE AND RELOCATE ONE (1) EXISTING LIGHTING FIXTURE THAT INTERFERES WITH CABLE TRAYS & BUS DUCT.
- CONTRACTOR SHALL PROVIDE & INSTALL (1) ONE 30A, 5P CKT. BKR. #5 (FOR BATTERY CHARGER) IN EXISTING 480V PANEL "CP".
- SEALING BUSHINGS FOR CONDUITS IN THIS DUCTBANK SHALL BE OZ TYPE CSBI OR APPROVED EQUAL. BUSHINGS FOR CONDUITS IN WHICH CABLES ARE TO BE INSTALLED SHALL BE INSTALLED SEGMENTAL DESIGN WITH ALUMINUM DISC & WITH HOLES TO SUIT CABLE DIAMETERS. BUSHINGS FOR UNUSED CONDUITS SHALL BE BLANK.
- CONTRACTOR SHALL PROVIDE & INSTALL (1) ONE 30A-1P CKT. BKR. #23 (FOR DC SWGR. HEATERS) IN EXISTING 120V PANEL "CPL".
- CONTRACTOR SHALL PROVIDE & INSTALL (2) TWO 40A-1P CKT. BKR'S #25 & #27 (FOR AC SWGR. HEATERS) IN EXISTING 120V AC PANEL "CPL".
- CONTRACTOR SHALL PROVIDE & INSTALL (1) ONE 20A, 1P CKT. BKR. #26 (FOR INVERTER) & (1) ONE 20A, 1P CKT. BKR. #28 (FOR METERING PANEL) IN EXISTING 120V. PANEL "CPL".
- FOR MISCELLANEOUS DETAILS SEE DWG. SSI6-E-46

ENLARGED PLAN
SCALE: NONE

SUBSTATION PLAN

DESIGNED	WGM	3/24/85
DRAWN	RJL/ME	5/17/85
CHECKED	GPS	11/20/85
APPROVED	[Signature]	2-17-86

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
		11-25-84	MD	REV. FOR P.C.D. 12, AS-BUILT

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

JACKSON & MORELAND
STAGE DESIGNER

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: [Signature]
APPROVED: [Signature]

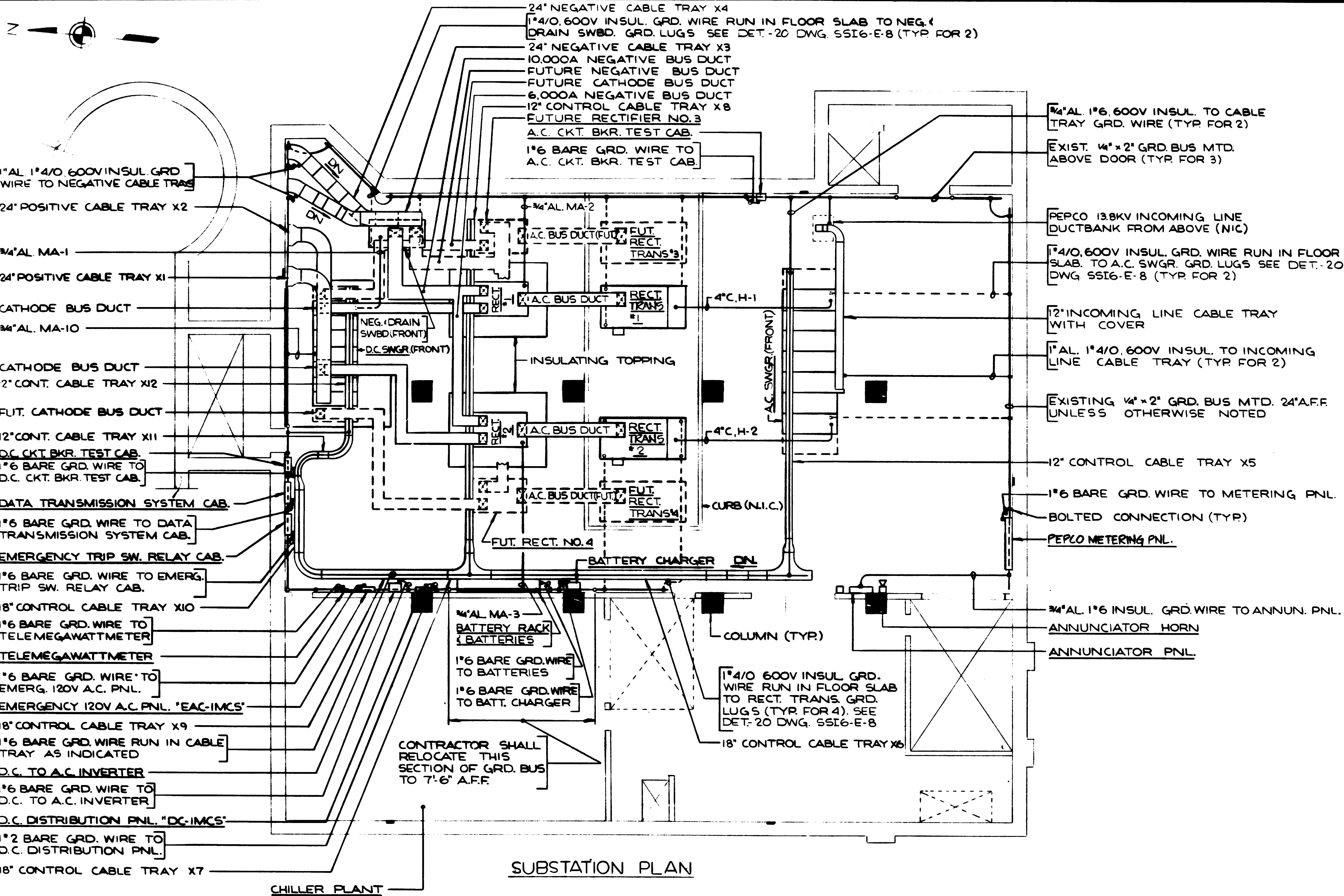
SUBSTATION INSTALLATION SSI-6
MEDICAL CENTER SUBSTATION
CONDUIT & CABLE TRAY

SCALE: 1"=1'-0"

SS16-E-44 M427-44

NOTES

1. FOR GENERAL NOTES (LEGEND SEE DWG. SSI6-E-1.
2. FOR GENERAL DETAILS SEE DWG. SSI6-E-6,7,8,9 & E-10.



SUBSTATION PLAN

AS-BUILT CONDITION
Edmund C. ...
 1965

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
WLM	9/21/60					
DRAWN	9/11/60					
CHECKED	11/17/60					
APPROVED	11/17/60					



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

JACKSON & MORELAND
 STAGE DESIGNER

DE LEUW, CATHAR & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *John W. Fullerton*

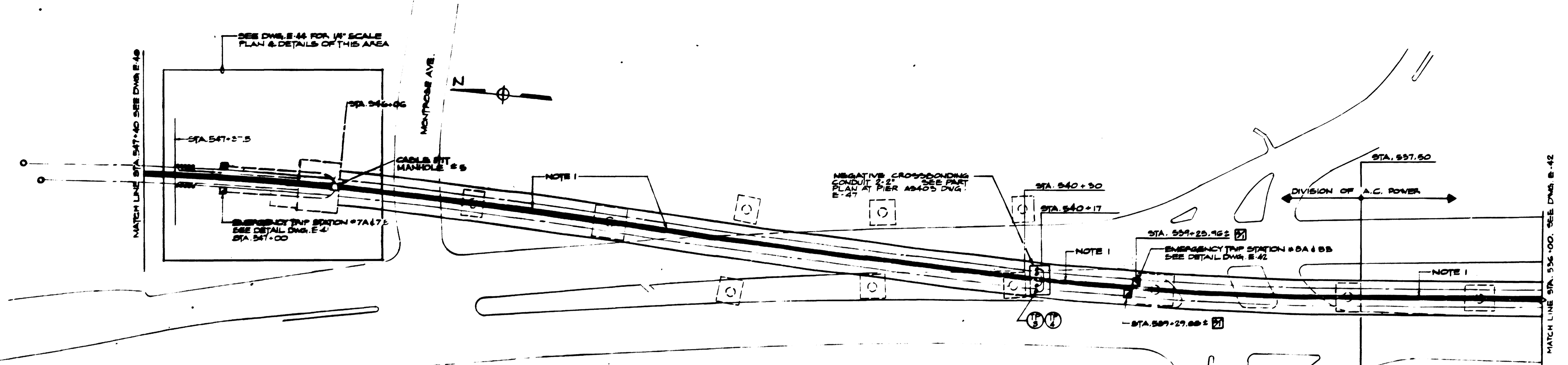
APPROVED *Paul H. ...*

SUBSTATION INSTALLATION SSI-6

**MEDICAL CENTER SUBSTATION
 GROUNDING**

SCALE 1" = 1'-0"

DRAWING NO. **SSI6-E-45** **M427-45**



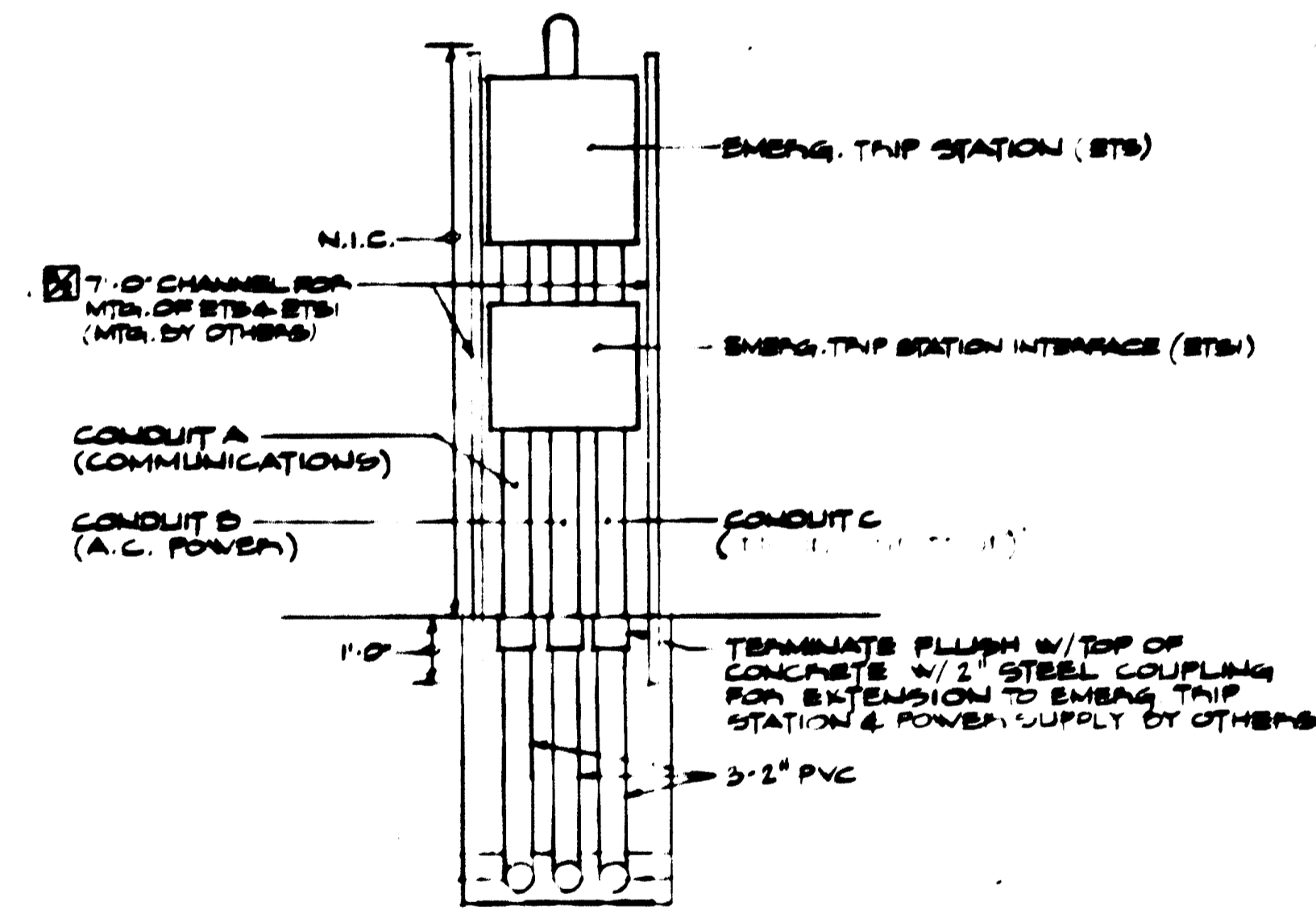
WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
MAY 03 1978
REVISION ENGINEER DATE

NOTES

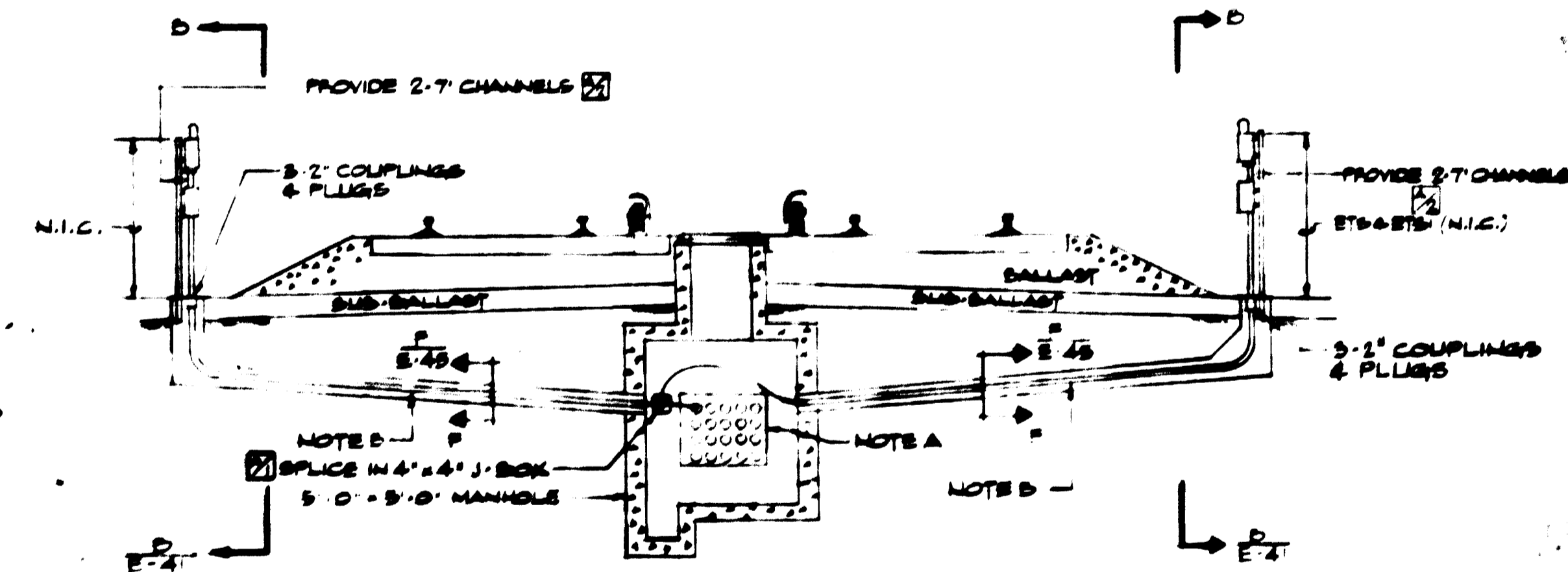
- 1. SAFETY WALK ELECTRICAL RACEWAY W/ 4 MULTICONDUCTOR CABLE (2/C 10 + 10) EMERGENCY TRIP STATION POWER SUPPLY FEEDS. SEE DETAIL DWG. E-42. NO EMERGENCY TRIP STATION POWER SUPPLY WIRE FROM STA. 557+26 TO STA. 525+25.

EMERGENCY TRIP STATION SURFACE AREA CONDUIT SCHEDULE				
CONDUIT	EAST SIDE	IDENT.	WEST SIDE	IDENT.
UBA	547+002	COM 110 114 TC 65	547+002	COM 111 105 TC 64
UBA	547+002	COM 100 112 TC 67	547+002	COM 101 111 TC 66
UBA	552+802	COM 102 114 TC 68	552+602	COM 103 112 TC 66
UBA	560+802	COM 104 116 TC 69	560+502	COM 105 117 TC 69M

SEE DWGS. E-27, 40, 41 & 43 FOR ADDITIONAL INFORMATION



SECTION B-B
N.T.S.



SECTION A-A (DWG. E-40)
SCALE: 1/4" = 1'-0"

NOTES:

- A. 20'-4" PVC CONDUITS IN CONCRETE ENVELOPE ONE W/ 4 MULTICONDUCTOR CABLE (2/C 10 + 10) EMERGENCY TRIP STATION POWER SUPPLY FEED & ONE W/ FEEDER TO THE STATION PNL. ALL OTHERS W/ DRAG WIRE. SEE ALSO SECTION D-D ON DWG. E-27 PROVIDE END BELLS ON ALL CONDUITS ENTERING OR LEAVING MANHOLE.
- B. 3'-2" PVC CONDUITS IN CONCRETE ENVELOPE ONE W/ 4 MULTICONDUCTOR CABLE (2/C 12 + 12) FOR EMERGENCY TRIP STATION POWER SUPPLY FEED & ONE W/ FEEDER TO THE STATION PNL. ALL OTHERS W/ DRAG WIRE. PROVIDE END BELLS AT ENTRANCE OF MANHOLE. FOR CONDUIT NO. 3 SEE SCHEDULE THIS DWG. PROVIDE END BELLS AT ENTRANCE OF MANHOLE. SLOPE DUCTBANK TO DRAIN INTO MANHOLE WITHOUT FORECASTS DUCTBANK MIN. 5'-0" BELOW T/R.

DESIGNED J.E.S.
DRAWN W.D.
CHECKED E.A.W.
APPROVED [Signature]

NUMBER	DESCRIPTION	DATE	BY
1	THE BREAKER STATION PLAN ELEVATION	11-27-76	E.A.W.
2	A & B CHANGED EMERGENCY TRIP STA.		
3	8A & 8B STA. NO. CHANGE		
4	CHANNEL PROVIDED	1-16-78	E.A.W.

DATE	BY	DESCRIPTION
11-27-76	E.A.W.	SECTION A-A MODIFIED NOTES 1, A & B CHANGED EMERGENCY TRIP STA.
1-16-78	E.A.W.	CHANNEL PROVIDED



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION ENGINEER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHEN & COMPANY
GENERAL ENGINEERING CONSULTANT

MARRY WISSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

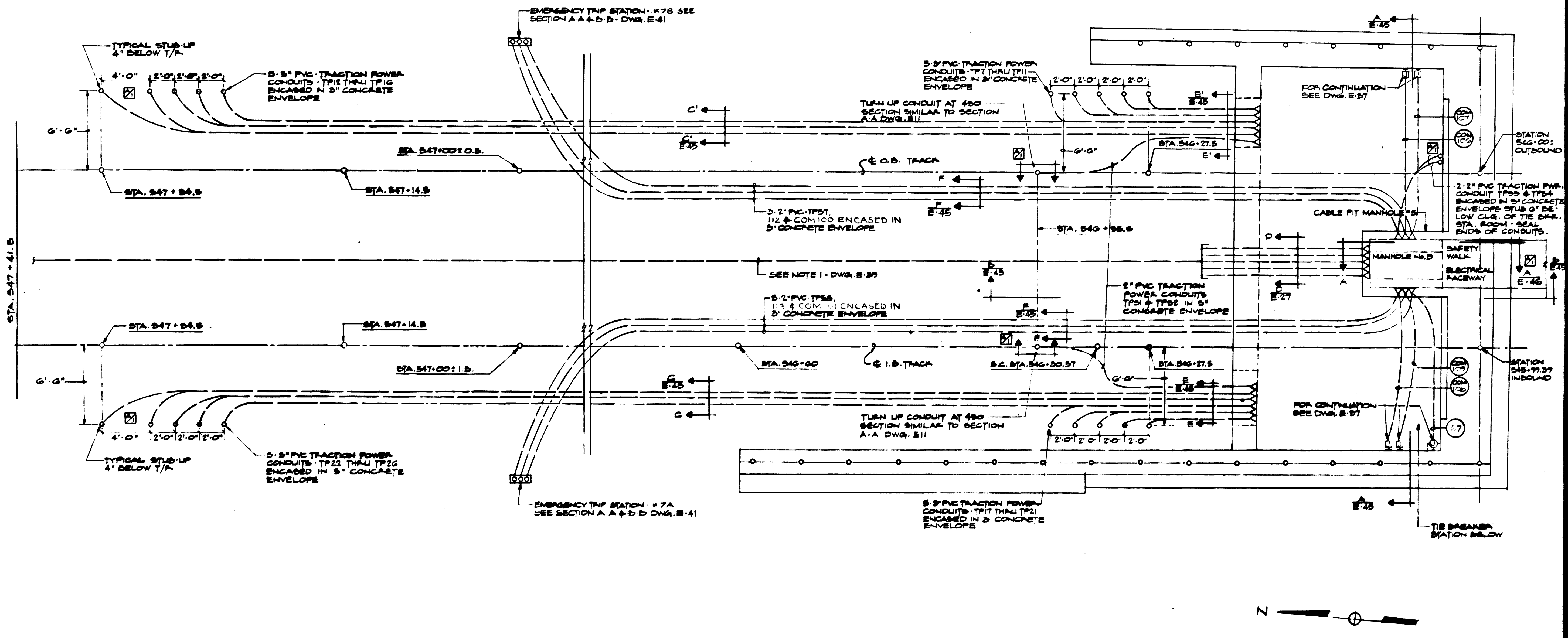
ROCKVILLE ROUTE
KEY PLAN OF STRUCTURE
STA. 547+00 TO STA. 556+00 O.S.

SCALE: HORIZ. 1" = 40'

DATE: MAY 03 1978

PROJECT NO.: **A13-E-41**

REVISION NO.: **1220-82**



WASHINGTON METROPOLITAN
 AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 DATE: MAY 03 1978
 ENGINEER: [Signature]

DESIGNED **E.A.W.**
 DRAWN **W.D.**
 CHECKED **E.A.W.**
 APPROVED [Signature]

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
AD E 30 G	CONDUIT & CABLE SCHEDULE	27-78	E.A.W.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEERE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

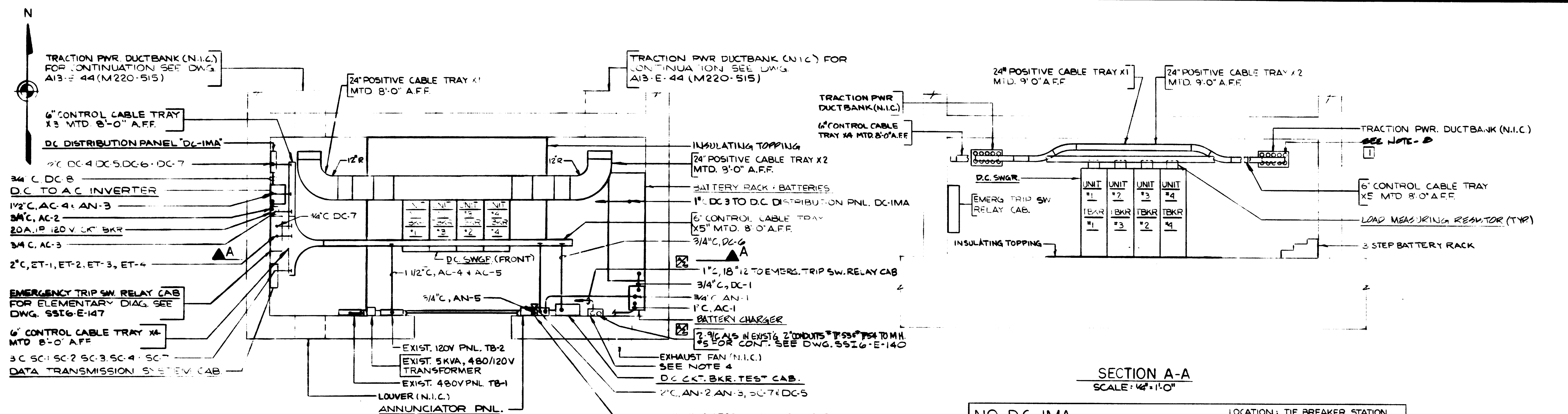
SUBMITTED [Signature] APPROVED [Signature]

**ROCKVILLE ROUTE
 GROSVENOR STATION**

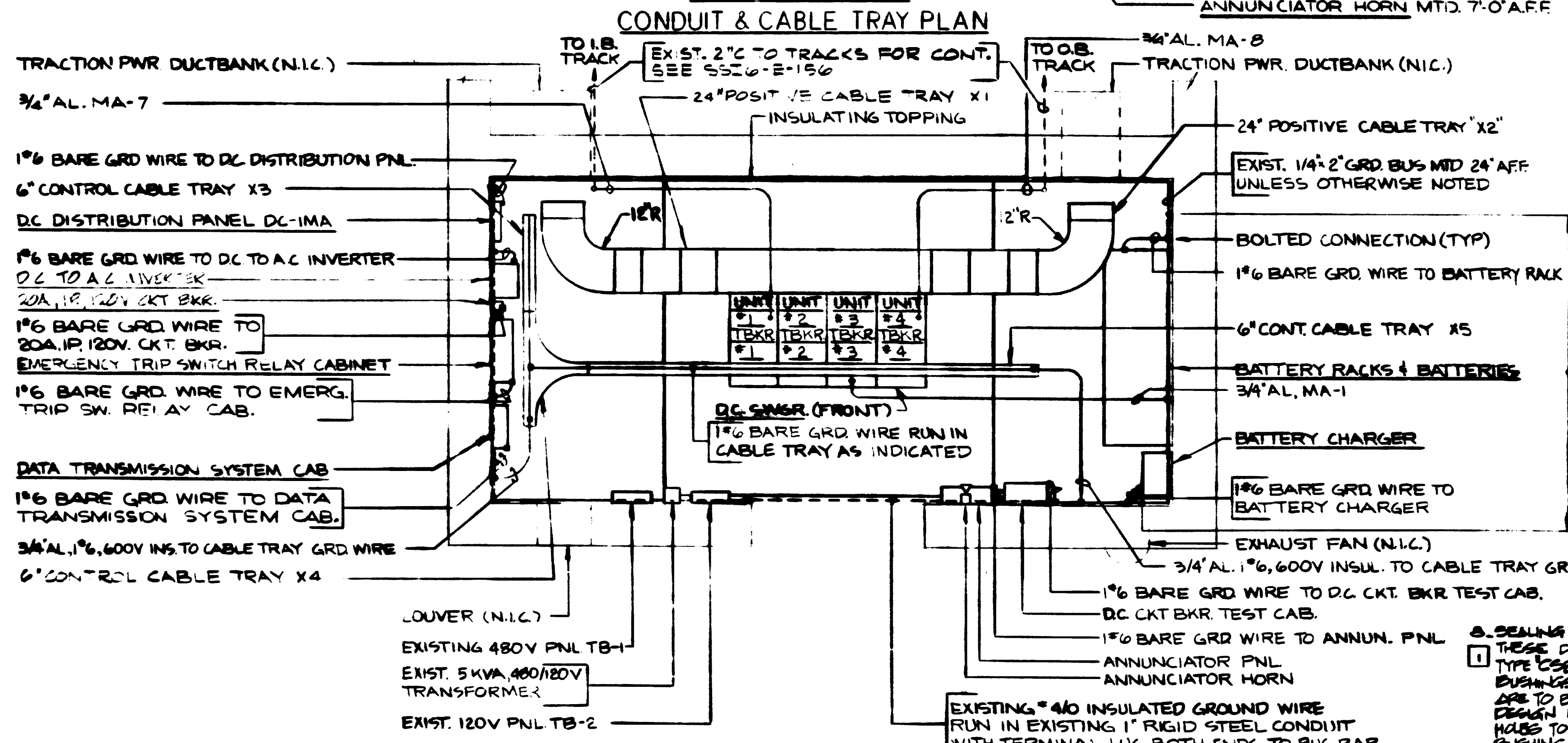
STATION 547+41.5 TO 546+17.5

SCALE: 1/4" = 1'-0"

DRAWING NO. **A13-E-44** PROJECT NO. **M220-515**



SECTION A-A
SCALE: 1/4" = 1'-0"



GROUNDING PLAN

NO. D.C.-IMA		LOCATION: TIE BREAKER STATION				
125 V, DC, 2 W, 100A MAINS, 10000A AIC BKR'S. @ 25 V, SURFACE MTG.		100A, 2P MAIN CKT. BKR.				
DESIGNATION	LOAD WATTS	NO. OUT-LETS	NO. TRIP	NO. TRIP	LOAD WATTS	DESIGNATION
D.C. SWGR. CONT. PWR.	-	45	1	2	15	ANNUNCIATOR PNL.
D.C. CKT. BKR. TEST CAB.	-	30	3	4	30	EMERG. TRIP SW. RELAY CAB.
D.C. TO A.C. INVERTER	-	15	5	6	15	SPARE
SPARE	-	15	7	8	15	SPARE

5. SEALING BUSHINGS FOR CONDUIT IN THESE DUCTBANKS SHALL BE OF TYPE LISTED OR APPROVED EQUAL. BUSHINGS FOR CONDUIT IN WHICH CABLES ARE TO BE INSTALLED SHALL BE SEGMENTAL DESIGN WITH ALUMINUM DISCS WITH HOLES TO SUIT CABLE DIAMETERS. BUSHING FOR UNUSED CONDUITS SHALL BE LEFT BLANK.

- CONTRACTOR SHALL CONNECT TO EXISTING 20A. 3P. CKT. BKR #2 (FOR BATTERY CHARGER) IN EXISTING 480V PNL. "TB-1".
- CONTRACTOR SHALL CONNECT TO (2) TWO EXISTING SPARE 20A. 1P. CKT. BKR'S. IN EXISTING 120V. PANEL "TB-2" (FOR INVERTER & D.C. SWGR. HTR'S).
- FOR MISCELLANEOUS DETAILS SEE DWG. SSI6-E-63

- NOTES:
- FOR GENERAL NOTES & LEGEND SEE DWG. SSI6-E-1
 - FOR GENERAL DETAILS SEE DWG'S SSI6-E-6, 7, 8, 9 & E10.
 - CONTRACTOR SHALL REMOVE & RELOCATE (1) EXISTING LIGHT FIXTURE THAT INTERFERES WITH CABLE TRAY.
 - CONTRACTOR SHALL INSTALL 12" X 12" X 6" DP. SPLICE BOX ON EXISTING 2" CONDUITS TO SPLICE ALS CABLE TO 1/2" X 12" CONTRACTOR.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
WJM	8/1/80			4-14-81	JFF CHANGED CONDUIT SIZE (NO. OF WIRES TO EMERG. TRIP SW. RELAY CAB. FROM SPLICE BOX) & ADDED 2-9/C ALS. CABLE TO EXIST'G 2" CONDUIT & TP54
RJM	9/1/80			11-27-83	MD REV. FOR P2, 21, 25, 26, 27



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

JACKSON & MORELAND
STAGE DESIGNER

SUBMITTED *John H. Fullerton*

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

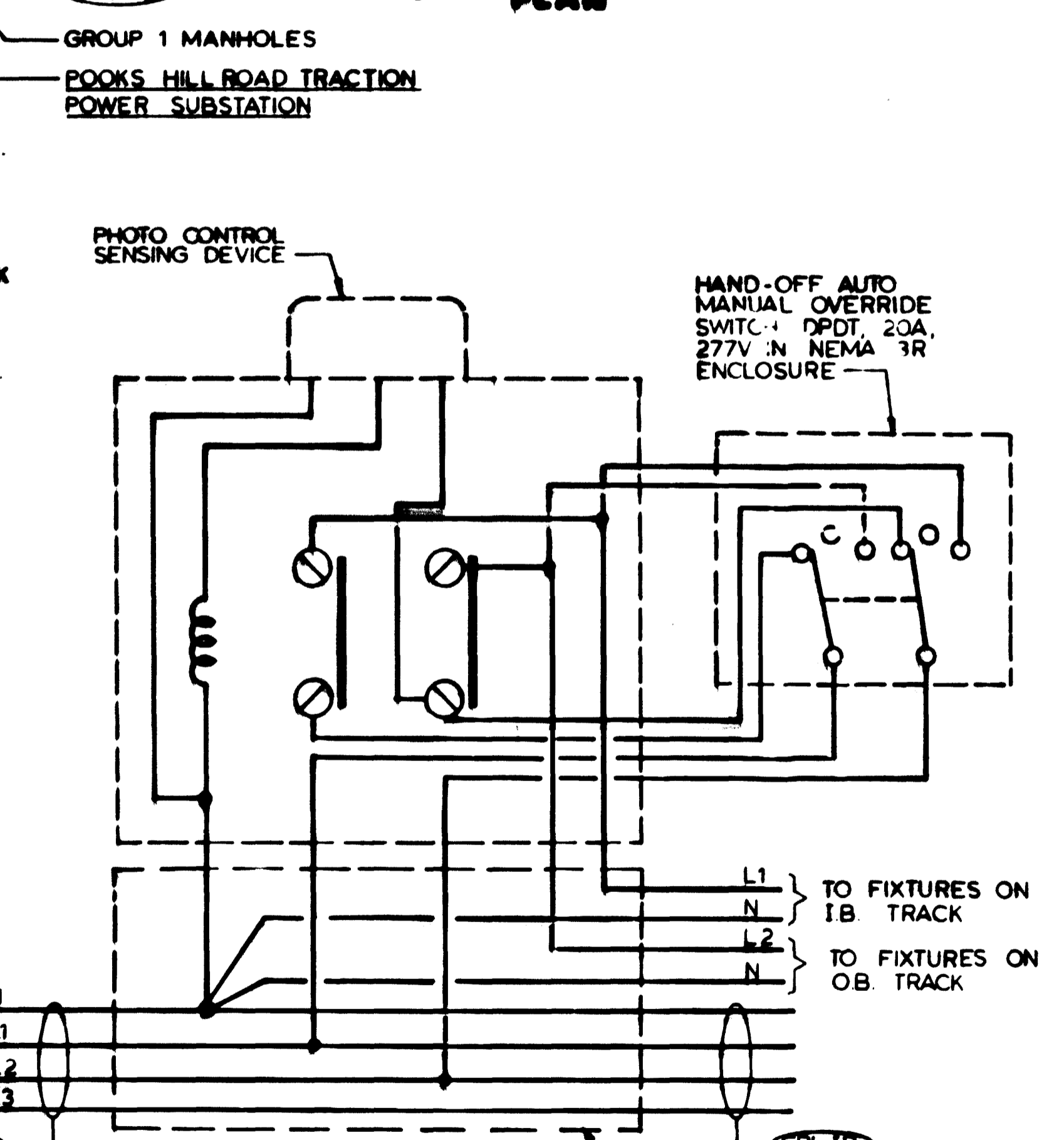
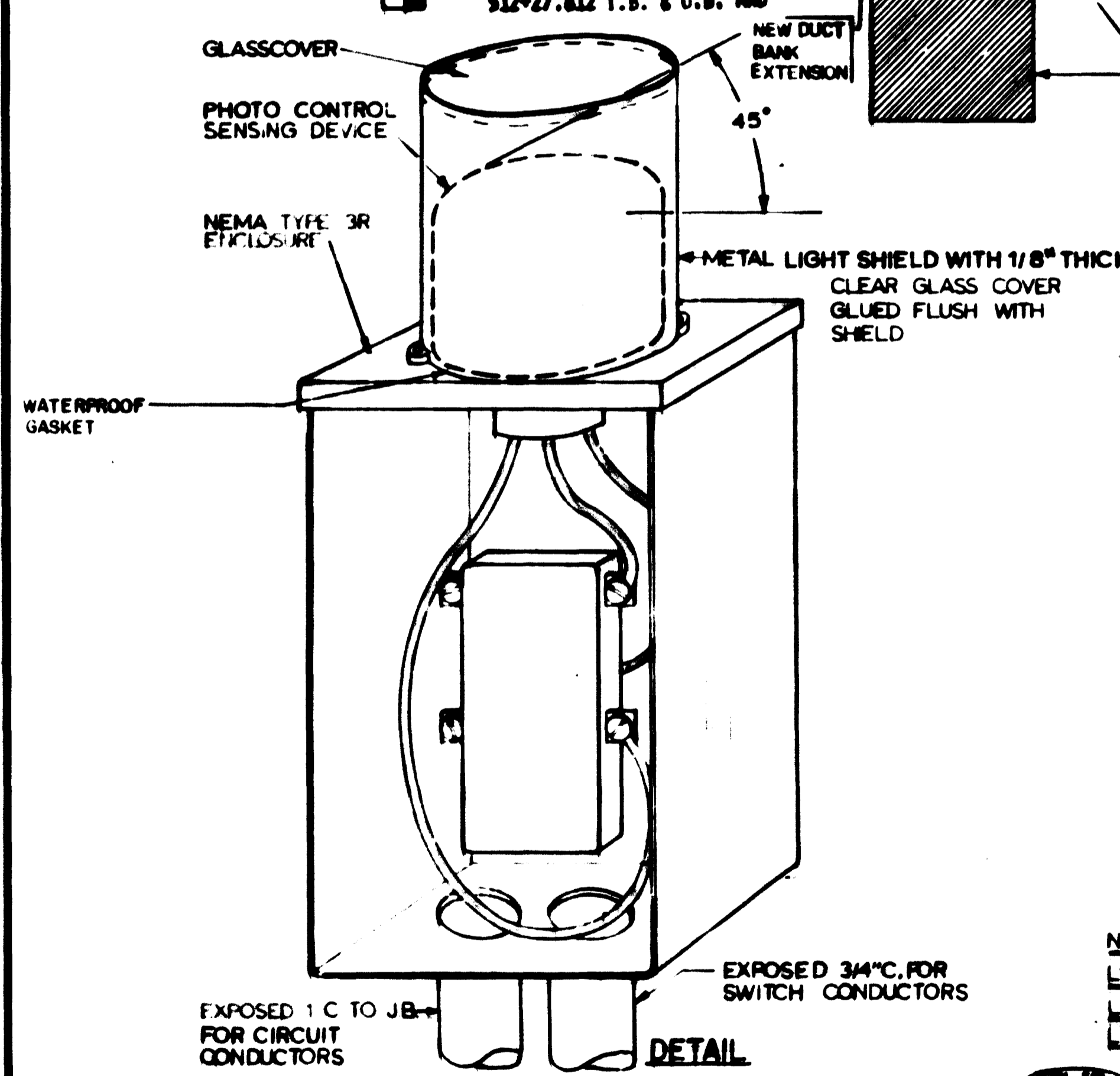
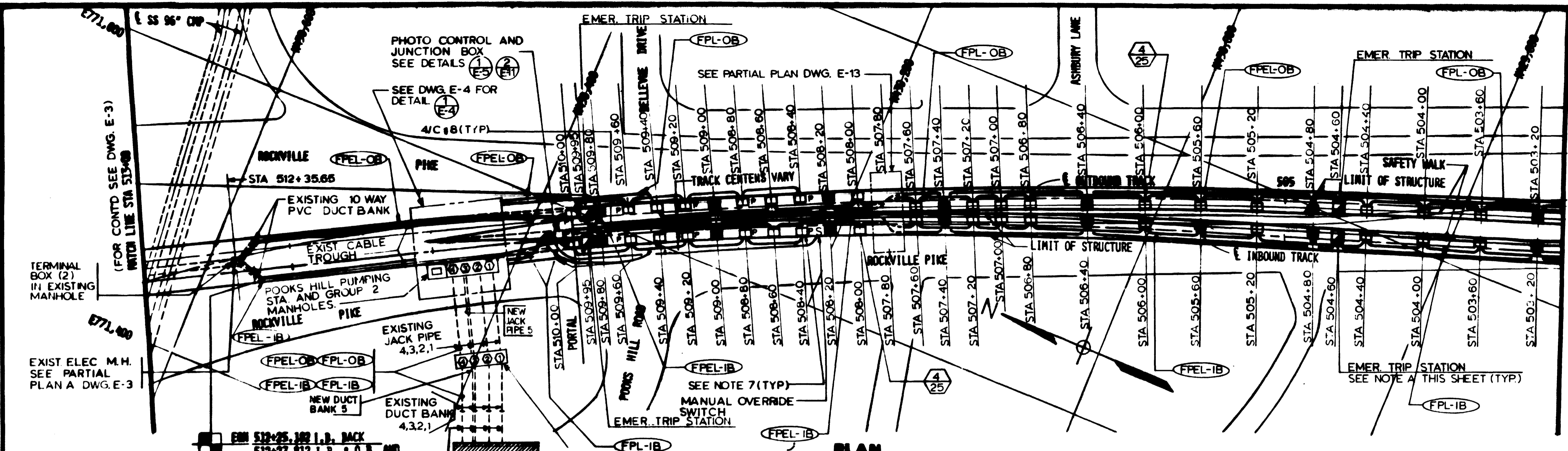
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED *Paul J. ...*

SUBSTATION INSTALLATION SSI-6
MONTROSE AVE. TIE BREAKER STATION
CONDUIT & CABLE TRAY & GROUNDING

SCALE: 1/4" = 1'-0"

DRAWING NO. **SSI6-E-61** M427-61



1. DETAIL AND WIRING DIAGRAM OF PHOTO CONTROL
SCALE: NONE (E-5, E-11)

NOTES FOR PHOTO CONTROL

1. THE FUNCTION OF THE PHOTO CONTROL IS TO SWITCH 'ON' ADDITIONAL LIGHTS AT PORTAL WHEN THE ILLUMINATION LEVEL OF AMBIENT SKY LIGHT IS LOW AND 'OFF' WHEN AMBIENT SKYLIGHT LEVEL INCREASES
2. THE PHOTO CONTROL SHALL CONSIST OF CADMIUM-SULFIDE CELL IN WEATHERPROOF OMNI-DIRECTIONAL TRANSLUCENT HOUSING. IT SHALL ALSO PROVIDE TIME DELAY RESPONSE UP TO 15 SECONDS TO PREVENT FALSE SWITCHING DUE TO TEMPORARY CHANGE IN NATURAL LIGHT INTENSITY.
3. THE PHOTO CONTROL SENSING DEVICE SHALL BE SUITABLE FOR 277V, 1Ø, AC OPERATION.
4. THE RELAY CONTACTS SHALL BE "DOUBLE-POLE SINGLE THROW" WITH CONTACT RATING OF 1800W AT 277V AC PER POLE.
5. PROVIDE A SURGE PROTECTOR AS A SAFEGUARD AGAINST INDUCED HIGH-VOLTAGE AND FOLLOW THROUGH CURRENT
6. PROVIDE WEATHERPROOF LIGHT SHIELD - 45° CUT OFF AND PAINTED MATTE BLACK-OVER THE PHOTO CONTROL SENSING DEVICE SO THAT ONLY SKY LIGHT IS MONITORED.
7. SUBLITTER 'P' INDICATES LIGHTING FIXTURE CONTROLLED BY PHOTOCELL.

NOTES

- A. THE ENCLOSURES OF THE SURFACE MOUNTED TYPE EMERGENCY TRIP STATION, BLUE LIGHT FIXTURES AND STEP-DOWN TRANSFORMERS FOR TUNNEL SHALL BE FURNISHED BY WMATA AND INSTALLED BY OTHER. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH, INSTALL AND CONNECT A 277 V SINGLE PHASE 60 HZ SUPPLY FURNISH 8 FT. OF SLACK 2/C #12 WITH GND. CABLE SPliced ONTO THE 4/C #8 EMERGENCY LIGHTING FEEDER CABLE IN A JUNCTION BOX. SEE TYPICAL DETAIL (E-15)
- B. BETWEEN STA. 502+50.00 AND STA. 507+74.50 THE EXISTING CHANNEL INSERTS (ON BOTH L.B. & O.B. TRACKS) OVER THE SAFETYWALKS ARE "OFF-SET" FROM NORMAL LOCATION TO AVOID THE WALL OPENINGS. THE MOUNTING HEIGHTS OF VARIOUS ELECTRICAL ITEMS SHALL BE ADJUSTED AS FOLLOWS:

LIGHTING FIXTURE	8'-6"
LOAD CENTER	6'-0"
RECEPTACLE	4'-9"
EMERGENCY TRIP STATION	5'-6"

 (ALL MEASUREMENTS ARE FROM ϵ OF DEVICE TO SAFETYWALK)
- C. SEE NOTE B, DWG. E-9. SEE NOTES B & C, DWG. E-11

AS BUILT CONDITION
NOV 11 1983
HARRY WESE & ASSOCIATES

DESIGNED	P.S. CHU	8-2-83
DRAWN	C.J. REID	8-2-83
CHECKED	H.B. ZACKERSON	8-11-83
APPROVED	H.B. ZACKERSON	8-11-83

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
M-4	KEY PLAN AND PROFILE STA 512+00 TO STA 503+00			



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS
SECTION ENGINEER

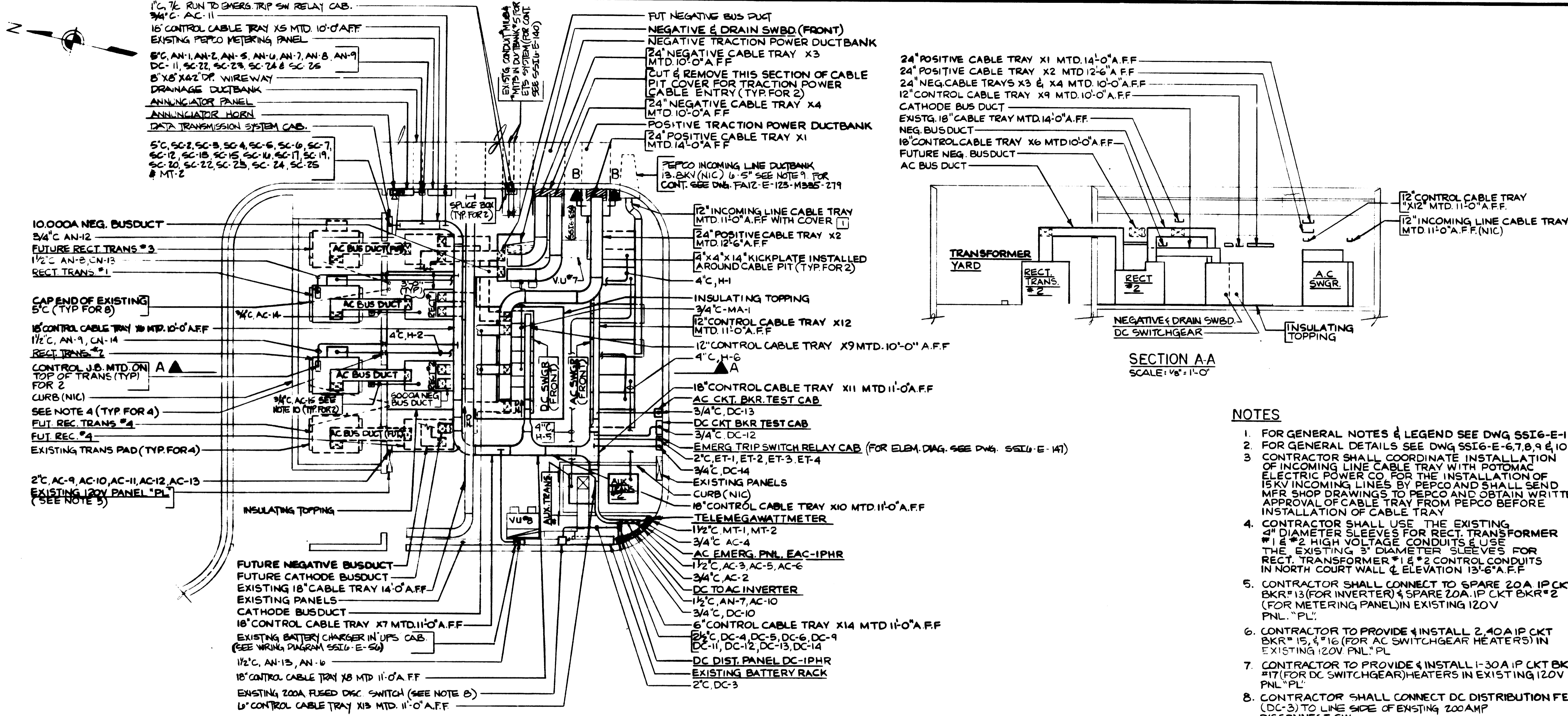
DE LEUW, CATHIER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *Harry Weese* DATE 2/10/81 APPROVED *Paul H. ...*

ROCKVILLE ROUTE
ELECTRICAL KEY PLAN
STA. 513+00 TO STA. 503+00 - LIGHTING

SCALE: HORIZ. 1"=40' AND AS NOTED DRAWING NO. FA12-E-5 M335-265



SUBSTATION PLAN

NOTES

- FOR GENERAL NOTES & LEGEND SEE DWG SSI6-E-1
- FOR GENERAL DETAILS SEE DWG SSI6-E-6,7,8,9 & 10
- CONTRACTOR SHALL COORDINATE INSTALLATION OF INCOMING LINE CABLE TRAY WITH POTOMAC ELECTRIC POWER CO. FOR THE INSTALLATION OF 15KV INCOMING LINES BY PEPCO AND SHALL SEND MFR SHOP DRAWINGS TO PEPCO AND OBTAIN WRITTEN APPROVAL OF CABLE TRAY FROM PEPCO BEFORE INSTALLATION OF CABLE TRAY
- CONTRACTOR SHALL USE THE EXISTING 4" DIAMETER SLEEVES FOR RECT. TRANSFORMER #1 & #2 HIGH VOLTAGE CONDUITS & USE THE EXISTING 3" DIAMETER SLEEVES FOR RECT. TRANSFORMER #1 & #2 CONTROL CONDUITS IN NORTH COURT WALL @ ELEVATION 13'-6" A.F.F.
- CONTRACTOR SHALL CONNECT TO SPARE 20A IP CKT BKR #13 (FOR INVERTER) & SPARE 20A IP CKT BKR #2 (FOR METERING PANEL) IN EXISTING 120V PNL. "PL"
- CONTRACTOR TO PROVIDE & INSTALL 2, 40A IP CKT BKR #15, & #16 (FOR AC SWITCHGEAR HEATERS) IN EXISTING 120V PNL. "PL"
- CONTRACTOR TO PROVIDE & INSTALL 1-30A IP CKT BKR #17 (FOR DC SWITCHGEAR) HEATERS IN EXISTING 120V PNL. "PL"
- CONTRACTOR SHALL CONNECT DC DISTRIBUTION FEED (DC-3) TO LINE SIDE OF EXISTING 200AMP DISCONNECT SW
- SEALING BUSHINGS FOR CONDUITS IN THIS DUCTBANK SHALL BE OZ TYPE CSBI OR APPROVED EQUAL BUSHINGS FOR CONDUITS IN WHICH CABLE ARE TO BE INSTALLED SHALL BE SEGMENTAL DESIGN ALUMINUM DISC WITH HOLES TO SUIT CABLE DIAMETERS. BUSHINGS FOR UNUSED CONDUITS SHALL BE BLANK
- CONTRACTOR SHALL MAKE THE ELECTRICAL CONNECTION TO THE BUS DUCT HEATERS & THE TERMINAL BLOCK LOCATED IN RECIPER CUBICLE DESIGNATED FOR BUS DUCT HEATER SUPPLY.
- FOR MISCELLANEOUS DETAILS SEE DWG. SSI6-E-54.
- TEMPORARY CLOSING OF FUTURE BUS DUCT OPENINGS: USE #10 GAUGE GALVANIZED SHEET METAL, ANCHOR TO THE OUTSIDE WALL, AND CAULK AROUND THE EDGES.

AS BUILT CONDITION
 JAN 25 1993

DESIGNED	APL	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	PKS	11/27/04	1	REV. PER PCD. 7, AS-BUILT			
CHECKED	GRS		2	REV. PER PCD. 11, AS-BUILT			
APPROVED		2/23/05					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

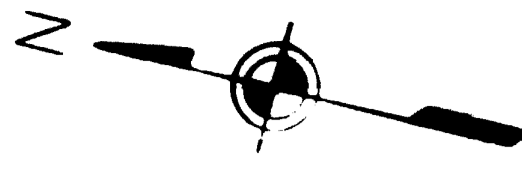
JACKSON & MORELAND
STAGE DESIGNER

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBSTATION INSTALLATION SSI-6
POOKS HILL ROAD SUBSTATION
CONDUIT & CABLE TRAY

SCALE: 1" = 1'-0" 10 2 4 6 8 10
 DRAWING NO. **SSI6-E-54** **M427-54**



1" 4/0 600V INSUL. GRD WIRE RUN IN FLOOR SLAB TO NEG & DRAIN SWBD. GRD LUGS SEE DET. 2C DWG. SSI6-E-8 (TYP. FOR 2)
 FUTURE NEG. BUSDUCT
 EXISTING PEPCO METERING PANEL
 18" CONTROL CABLE TRAY X5
 DRAINAGE DUCTBANK
 1" 6 BARE GROUND WIRE TO ANNUN. PNL.
 ANNUNCIATOR PANEL
 ANNUNCIATOR HORN

DATA TRANSMISSION SYSTEM CAB.
 1" 6 BARE GROUND WIRE TO DATA TRANSMISSION SYSTEM CAB.
 3/4" AL 1" 6, 600V INSUL. TO CABLE TRAY GRD WIRE (TYP. FOR 2)
 FUTURE RECTIFIER TRANS. #3

HIGH VOLTAGE COMPARTMENT (TYP. FOR 2)
 RECTIFIER TRANS. #1
 EXISTING 4/0 BARE GRD. WIRE STUBBED 2'-0" ABOVE TRANS. PAD FOR CONNECTION TO RECT. TRANS. (TYP. FOR 4)

18" CONTROL CABLE TRAY X6
 RECTIFIER TRANS. #2
 NEW 4/0 GRD. WIRE TO TRANSFORMER GRD. LUGS (TYP. FOR 4)
 THERMITE CONNECTION (TYP. FOR 4)
 CATHODE BUSDUCT
 FUTURE CATHODE BUSDUCT

FUTURE RECTIFIER TRANS. #4

EXISTING 18" CABLE TRAY
 18" CONTROL CABLE TRAY X7
 INSULATING TOPPING
 1" 6 BARE GROUND WIRE RUN IN CABLE TRAY AS INDICATED
 18" CONTROL CABLE TRAY X8
 18" CONTROL CABLE TRAY X10

NEGATIVE TRACTION POWER DUCTBANK
 1" AL 1" 4/0 600V INSUL. TO NEG. CABLE TRAYS (TYP. FOR 2)
 24" NEGATIVE CABLE TRAY X3
 24" NEGATIVE CABLE TRAY X4
 POSITIVE TRACTION POWER DUCTBANK
 24" POSITIVE CABLE TRAY X1

PEPCO INCOMING LINE DUCTBANK 13.8 KV (NIC)
 1" AL 1" 4/0 600V INSUL. TO INCOMING LINE CABLE TRAY (TYP. FOR 2)
 12" CONTROL CABLE TRAY X12
 12" INCOMING LINE CABLE TRAY
 EXISTING 1/4" x 2" GRD BUS MTD. 2'-0" A.F.F. UNLESS OTHERWISE NOTED

1" 4/0 600V INSUL. GRD WIRE RUN IN FLOOR SLAB TO AC SWGR GRD. LUGS SEE DET. 2D DWG. SSI6-E-8 (TYP. FOR 2)
 24" POSITIVE CABLE TRAY X2
 4" x 4" x 1/4" KICKPLATE INSTALLED AROUND CABLE PIT (TYP. FOR 2)
 4" C, H-5
 NEG. & DRAIN SWBD. (FRONT)
 12" CONTROL CABLE TRAY X12

12" CONTROL CABLE TRAY X9
 10,000A NEG. BUSDUCT
 6000A NEG. BUSDUCT
 18" CONTROL CABLE TRAY X11
 1" 6 BARE GRD. WIRE TO AC CKT. BKR. TEST CAB
 AC CKT. BKR. TEST CAB
 1" 6 BARE GRD. WIRE TO DC CKT. BKR. TEST CAB
 DC CKT. BKR. TEST CAB
 1" 6 BARE GRD. WIRE TO EMERG. TRIP SW. RELAY CAB
 EMERG. TRIP SW. RELAY CAB
 EXISTING PANEL
 6" CONTROL CABLE TRAY X13
 6" CONTROL CABLE TRAY X14
 1" 6 BARE GRD. WIRE TO TELEMEGAWATTMETER
 TELEMEGAWATTMETER
 EMERG. 120V AC PNL. EAC-IPHR
 1" 6 BARE GRD. WIRE TO EMERG. 120V AC PNL. EAC-IPHR
 DC TO AC INVERTER
 1" 6 BARE GRD. WIRE TO DC TO AC INVERTER
 DC DIST. PNL. DC-IPHR
 1" 2 BARE GRD. WIRE TO DC DIST. PNL. DC-IPHR
 BOLTED CONNECTION (TYP.)

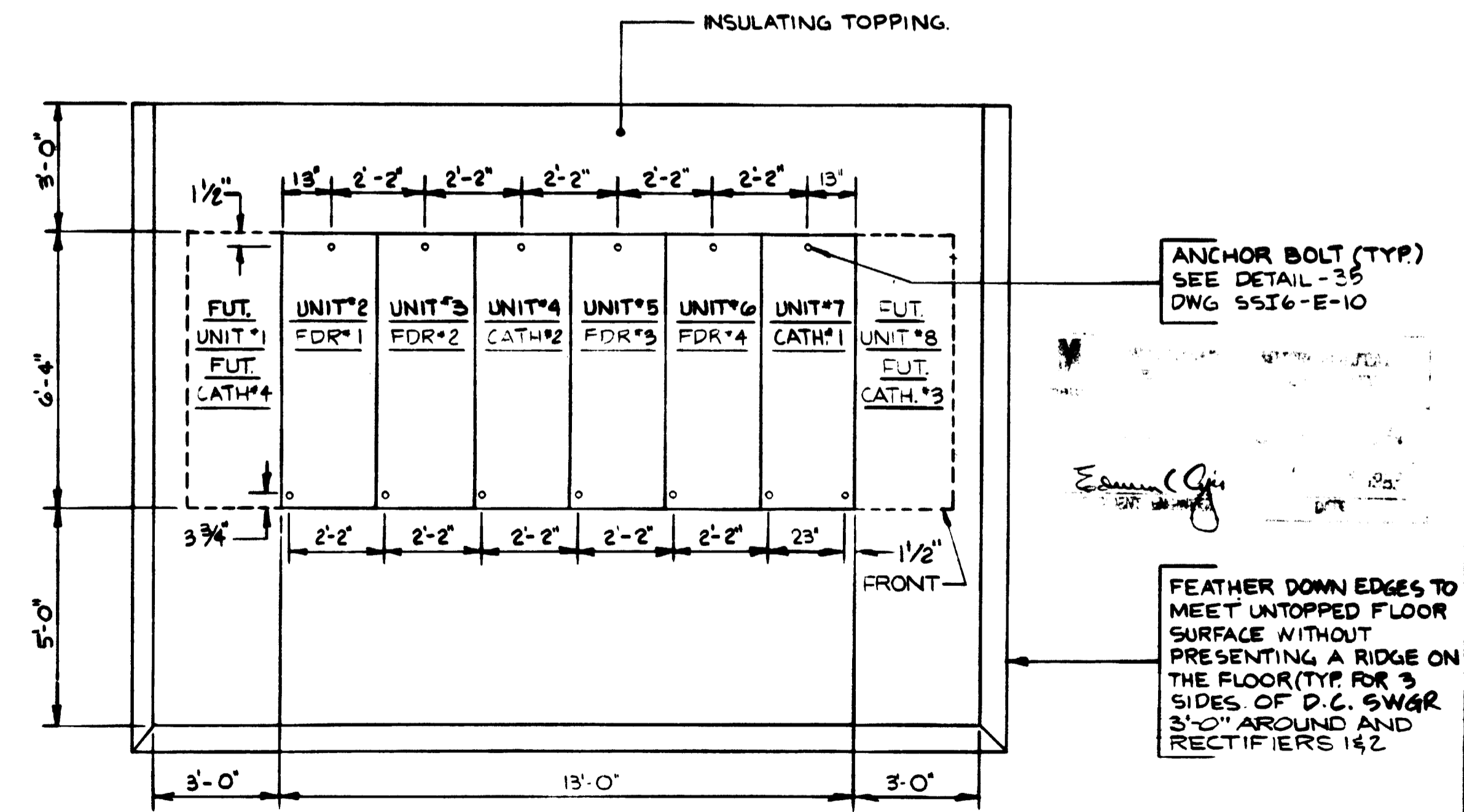
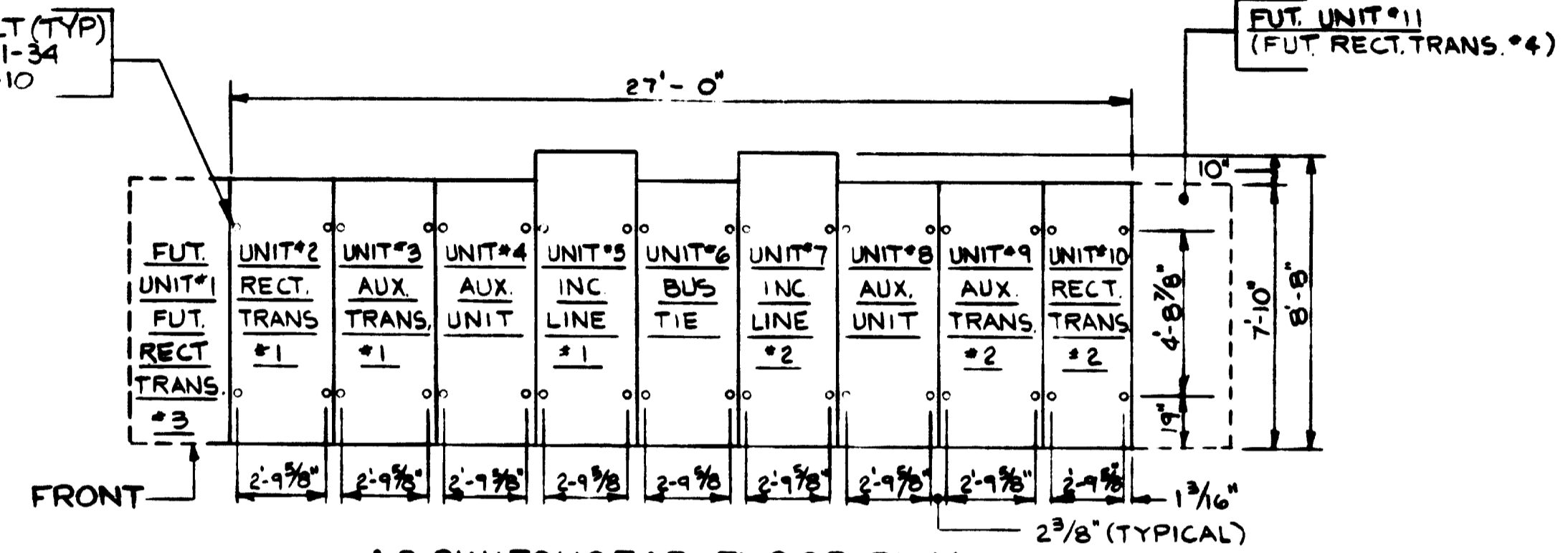
EXISTING 200A DISC. SW.
 EXISTING BATTERY CHARGER IN UPS CAB
 EXISTING PANEL

SUBSTATION PLAN

NOTES:

1. FOR GENERAL NOTES & LEGEND SEE DWG. SSI6-E-1
2. FOR GENERAL DETAILS SEE DWG. SSI6-E-6,7,8,9,10

ANCHOR BOLT (TYP.)
 SEE DETAIL 31-34
 DWG. SSI6-E-10



ANCHOR BOLT (TYP.)
 SEE DETAIL-35
 DWG. SSI6-E-10

FEATHER DOWN EDGES TO MEET UNTOPPED FLOOR SURFACE WITHOUT PRESENTING A RIDGE ON THE FLOOR (TYP. FOR 3 SIDES OF D.C. SWGR 3'-0" AROUND AND RECTIFIERS 1&2

DESIGNED	APL	3/2/80
DRAWN	PMS	3/27/80
CHECKED	GPS	4/11/80
APPROVED	<i>[Signature]</i>	2/11/81

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

JACKSON & MORELAND
 STAGE DESIGNER
John H. Fullerton

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

APPROVED *[Signature]*

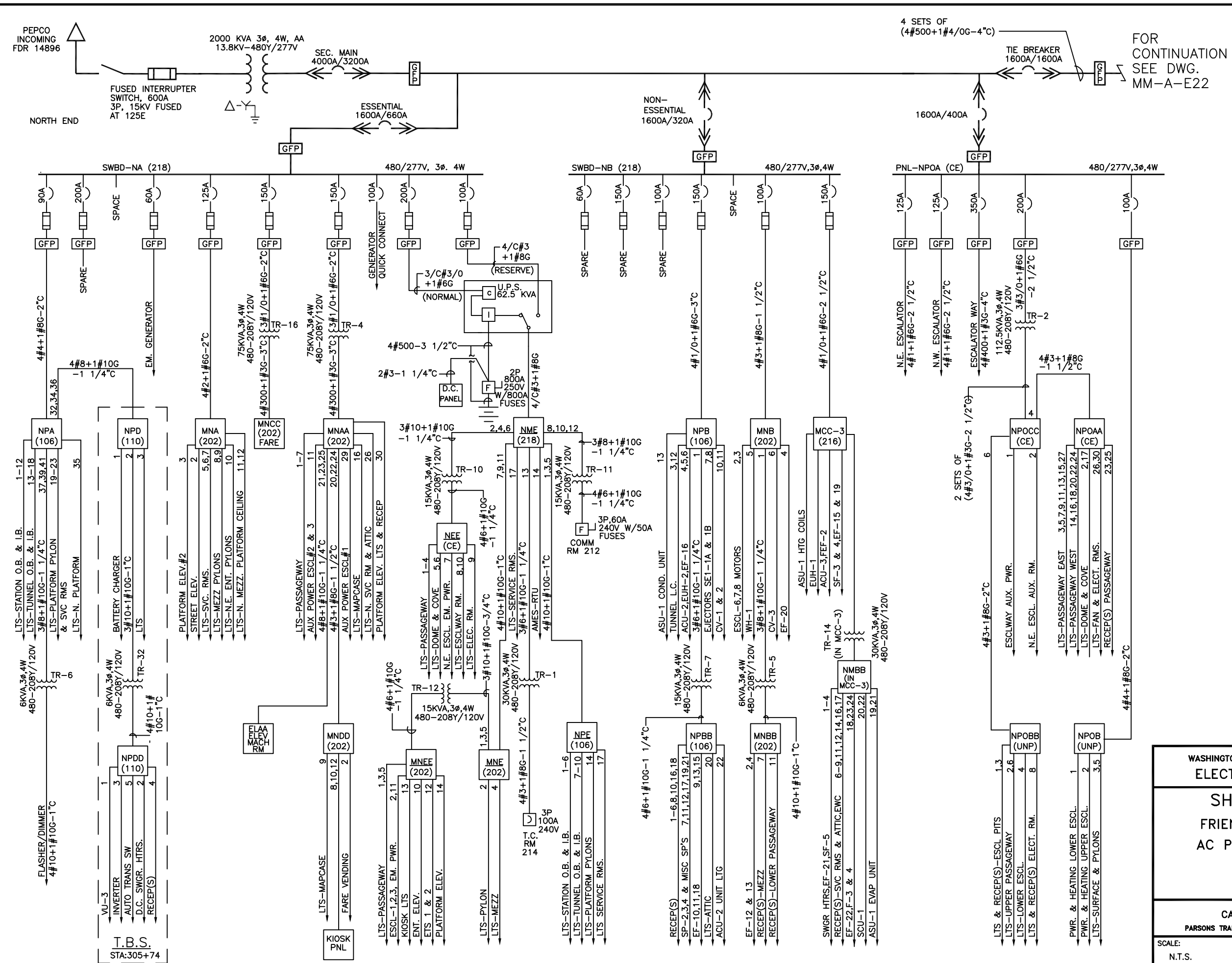
SUBSTATION INSTALLATION SSI-6
POOKS HILL ROAD SUBSTATION
 GROUNDING

SCALE: 1" = 1'-0" 10 2 4 6 8 10

DRAWING NO. **SSI6-E-55** **M427-88**

G:\DG-backup\PTG-cd\NewMainMap\A-Rout\MM-A-E21.dwg-8/2/2006-10:11:50 AM; AeroPlot.pc3; Landscape-Tablet\ANSI-B; 1:2-04839; D.C.

DESIGNED _____ DATE _____
 DRAWN _____ DATE _____
 CHECKED _____ DATE _____
 APPROVED R. GENERAL _____ DATE _____



FOR CONTINUATION
 SEE DWG.
 MM-A-E22

- NOTES:**
1. PANEL DESIGNATION

WEA (205) PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY

ROOM NUMBER

8 (CIRCUIT NUMBER)
 - 3#2, 2" CONDUIT SIZE

AWG OR KCMIL CIRCUIT WIRES (TAKEN FROM CONTRACT DWGS.)
 3. CIRCUIT BREAKERS

DRAW OUT ← → 1600A/1200A

FRAME SIZE CONTINUOUS CURRENT SETTING
 4. SWITCHGEAR INFORMATION

MANUFACTURER: FEDERAL PACIFIC ELEC. S.O.#81-2-141-A1 & 2C PLANT: ATLANTA
 5. UPS MANUFACTURER

INTERNATIONAL POWER MACHINES
 6. ROOM DESIGNATIONS

 - 105- MECH. RM. S. TRACK LEVEL
 - 106- MECH. RM. N.PLATFORM
 - 110- D.C. TIE BREAKER STATION
 - 201- S' MEZZ. MECH. RM.
 - 202- ELEC. RM. N. LOWER PASSAGEWAY
 - 203- S. A.C. SWITCHBOARD RM.
 - 205- S. BATTERY RM.
 - 212- COMMUNICATIONS RM.
 - 214- TRAIN CONTROL RM.
 - 216- N. MECH. RM.
 - 218- N. A.C. SWITCHBOARD RM.
 - 220- N. BATTERY RM.
 - CE- CONCOURSE ELECT. RM.
 - UNP- ELEC CLOSET-N.UPPER PSGWY.

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 ELECTRICAL MAINTENANCE MAP

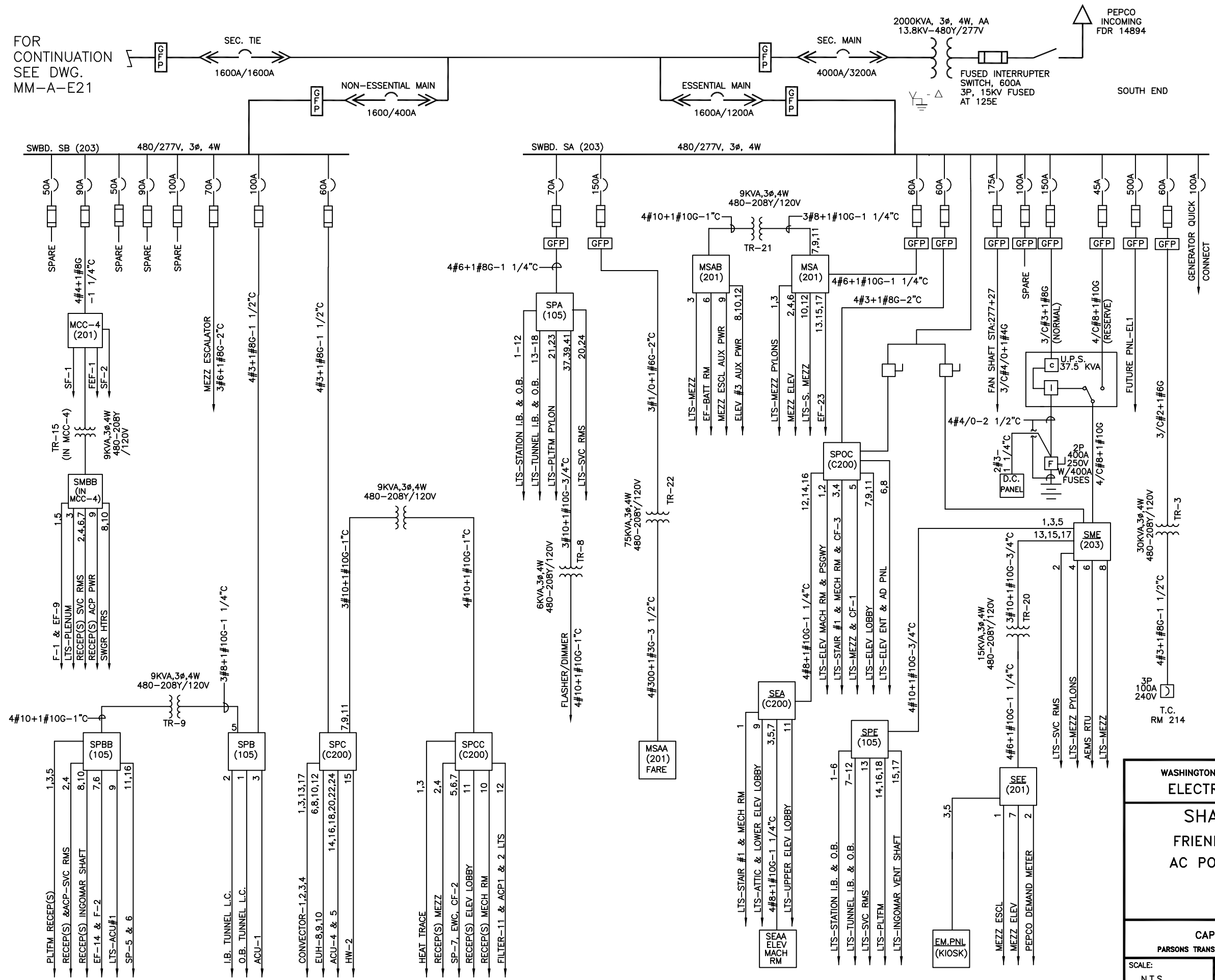
SHADY GROVE ROUTE
 FRIENDSHIP HEIGHTS STATION
 AC POWER ONE LINE DIAGRAM
 SHEET 1 OF 2

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: N.T.S.	DRAWING No. MM-A-E21
------------------	-------------------------

DESIGNED _____ DATE _____
 DRAWN _____ DATE _____
 CHECKED _____ DATE _____
 APPROVED _____ DATE _____

FOR CONTINUATION SEE DWG. MM-A-E21



- NOTES:**
1. PANEL DESIGNATION

WEA (205) PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY

ROOM NUMBER

8 (CIRCUIT NUMBER)
 - 3#2, 2" CONDUIT SIZE

AWG OR KCMIL CIRCUIT WIRES (TAKEN FROM CONTRACT DWGS.)
 3. CIRCUIT BREAKERS

DRAW OUT ← 1600A/1200A

FRAME SIZE CONTINUOUS CURRENT SETTING
 4. SWITCHGEAR INFORMATION

MANUFACTURER: FEDERAL PACIFIC

ELEC. S.O.#81-2-141-A1 & 2C
 5. UPS MANUFACTURER

INTERNATIONAL POWER MACHINES
 6. ROOM DESIGNATIONS

105- MECH. RM. S. TRACK LEVEL

106- MECH. RM. N.PLATFORM

110- D.C. TIE BREAKER STATION

201- S. MEZZ. MECH. RM.

202- ELEC. RM. N. LOWER PASSAGEWAY

203- S. A.C. SWITCHBOARD RM.

205- S. BATTERY RM.

212- COMMUNICATIONS RM.

214- TRAIN CONTROL RM.

216- N. MECH. RM.

218- N. A.C. SWITCHBOARD RM.

220- N. BATTERY RM.

CE - CONCOURSE ELECT. RM.

UNP - ELEC CLOSET-N.UPPER PSGWY.

C200-MEZZ SOUTH ENTRANCE

REVISIONS		
DATE	BY	DESCRIPTION

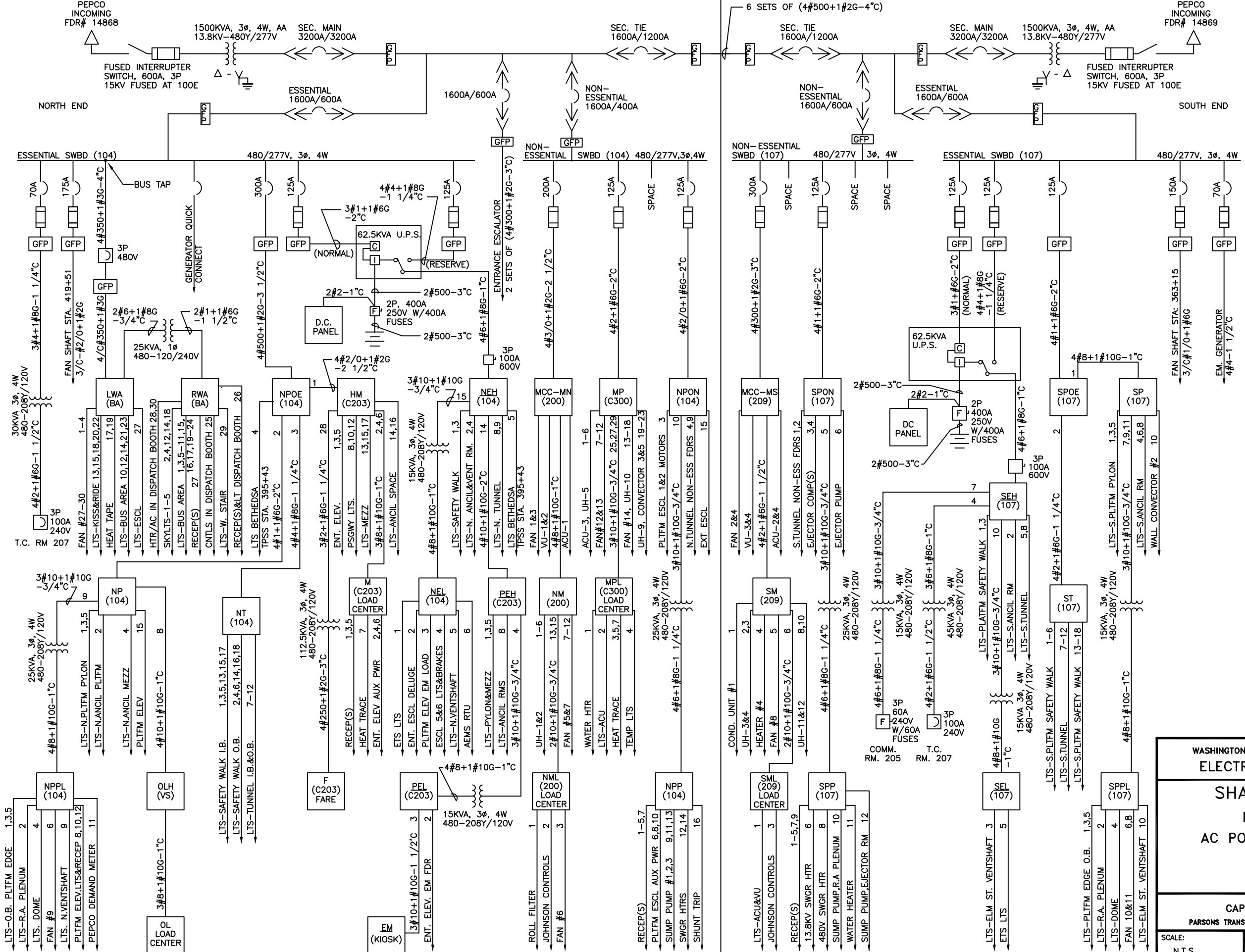
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

SHADY GROVE ROUTE
FRIENDSHIP HEIGHTS STATION
AC POWER ONE LINE DIAGRAM
SHEET 2 OF 2

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: N.T.S. DRAWING No. MM-A-E22

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____



NOTES:
1. PANEL DESIGNATION
WEA (205)
PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
ROOM NUMBER
8 (CIRCUIT NUMBER)

2. 3#2, 2°C
AWG OR KCMIL CIRCUIT WIRES (TAKEN FROM CONTRACT DWGS.)
CIRCUIT BREAKERS DRAW OUT ← 1600A/1200A
FRAME SIZE CONTINUOUS CURRENT SETTING

4. SWITCHGEAR INFORMATION
MANUFACTURER: FEDERAL PACIFIC ELEC.
PLANT: ATLANTA
S.O.#: 80-12-51-A2A

5. UPS MANUFACTURER: INTERNATIONAL POWER MACHINES

6. ROOM DESIGNATIONS:

ROOM No.	DESCRIPTION
102	NORTH BATTERY RM.
104	NORTH AC SWBD RM.
107	SOUTH AC SWBD RM.
109	SOUTH BATTERY RM.
200	NORTH MECH. RM.
204	NORTH ELEV. MACH. RM.
205	COMMUNICATIONS RM.
207	TRAIN CONTROL RM.
209	SOUTH MECH. RM.
C203	PSGWAY CLEANERS RM.
C207	PSGWAY ELEV. MACH. RM.
C300	PSGWAY MECH. RM.
VS	NORTH VENT SHAFT
BA	ELECT. CLOSET BUS AREA

REVISIONS

DATE	BY	DESCRIPTION

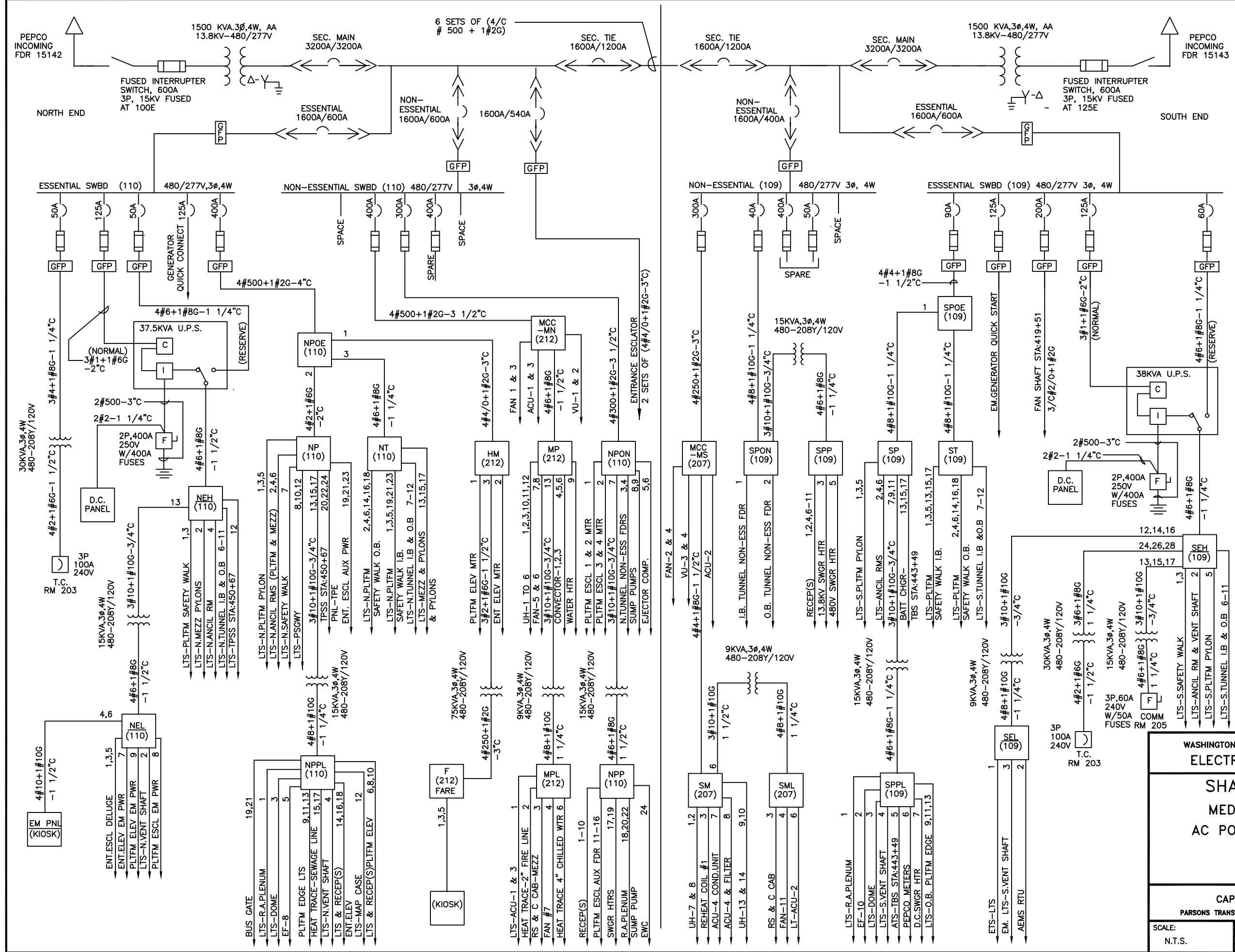
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

SHADY GROVE ROUTE
BETHESDA STATION
AC POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: N.T.S. DRAWING No. MM-A-E24

DESIGNED _____ DATE _____
 DRAWN _____ DATE _____
 CHECKED _____ DATE _____
 APPROVED _____ DATE _____



- NOTES:
- PANEL DESIGNATION

PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY

ROOM NUMBER

8 (CIRCUIT NUMBER)
 - 3#2, 2°C

CONIT SIZE

AWG OR KCMIL CIRCUIT WIRES (TAKEN FROM AS BUILT DWGS.)
 - CIRCUIT BREAKERS

DRAW OUT ← → 1600A/1200A

FRAME SIZE CONTINUOUS CURRENT SETTING
 - SWITCHGEAR INFORMATION

MANUFACTURER: FEDERAL PACIFIC ELEC. S.O.#: 81-5-163-A1 & 2C

PLANT: ATLANTA
 - UPS MANUFACTURER: INTERNATIONAL POWER MACHINES
 - ROOM DESIGNATIONS:

 - 103 OPERATIONS RM.
 - 104 ELEV. MACH. RM.
 - 109 SOUTH A.C. SWBD RM.
 - 110 NORTH A.C. SWBD RM.
 - 111 SOUTH BATTERY RM.
 - 112 NORTH BATTERY RM.
 - 203 TRAIN CONTROL RM.
 - 205 COMMUNICATIONS RM.
 - 207 SOUTH MECH. RM.
 - 210 MEZZ CLEANERS RM.
 - 212 MEZZ MECH. RM.

REVISIONS		
DATE	BY	DESCRIPTION

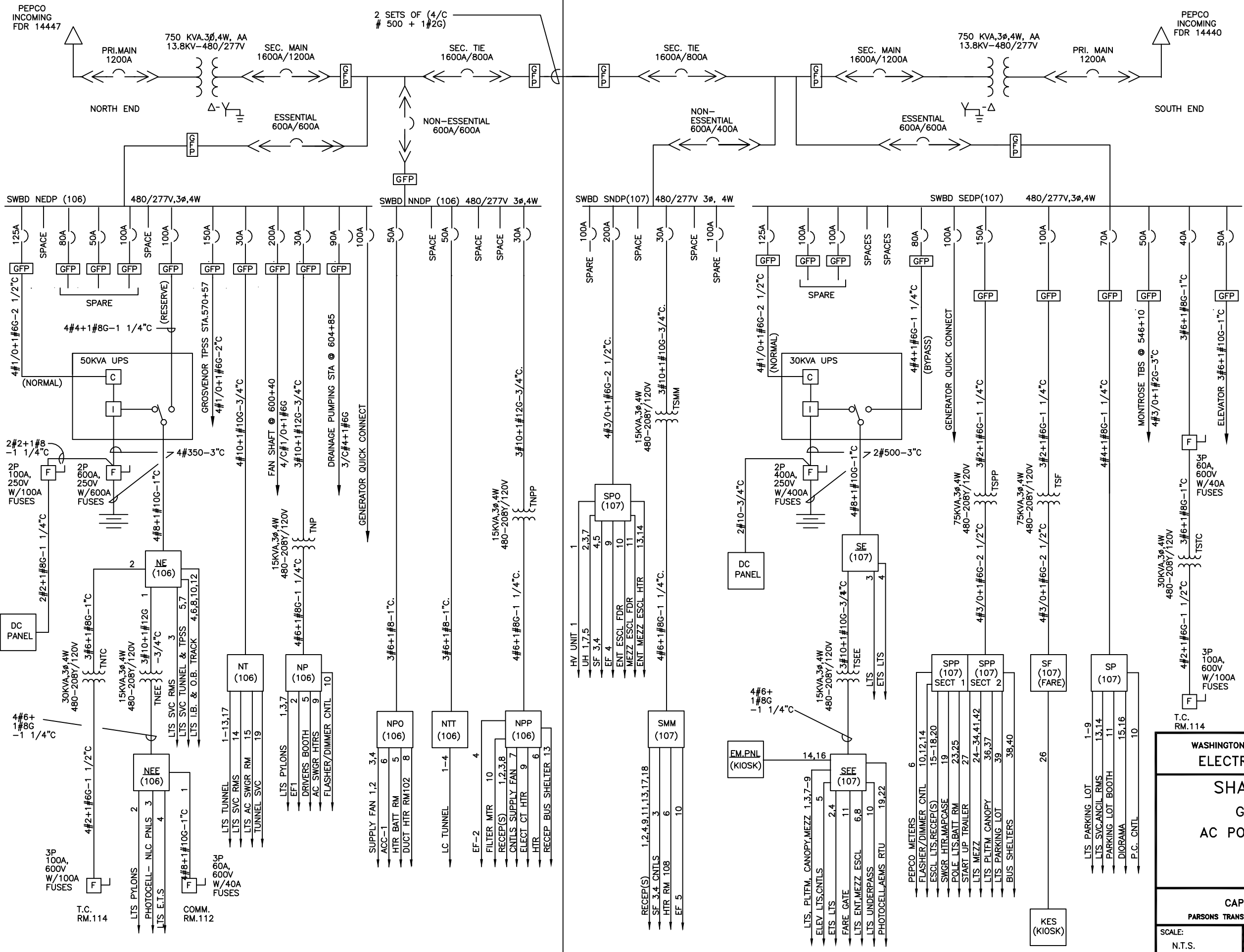
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

**SHADY GROVE ROUTE
 MEDICAL CENTER STATION
 AC POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: N.T.S. DRAWING No. MM-A-E26

DESIGNED _____ DATE _____
 DRAWN _____ DATE _____
 CHECKED _____ DATE _____
 APPROVED _____ DATE _____



NOTES:
 1. PANEL DESIGNATION
 2. PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
 3. ROOM NUMBER
 4. 1600A/1200A
 5. 1600A/1200A
 6. FRAME SIZE CONTINUOUS CURRENT SETTING

- 3#2, 2"C
 AWG OR KCMIL CIRCUIT WIRES (TAKEN FROM AS BUILT DWGS.)
- CIRCUIT BREAKERS
 DRAW OUT 1600A/1200A
 FRAME SIZE CONTINUOUS CURRENT SETTING
- SWITCHGEAR INFORMATION:
 MANUFACTURER: FEDERAL PACIFIC ELEC. S.O.# 02-8472-1 & 2
- UPS MANUFACTURER:
 INTERNATIONAL POWER MACHINES

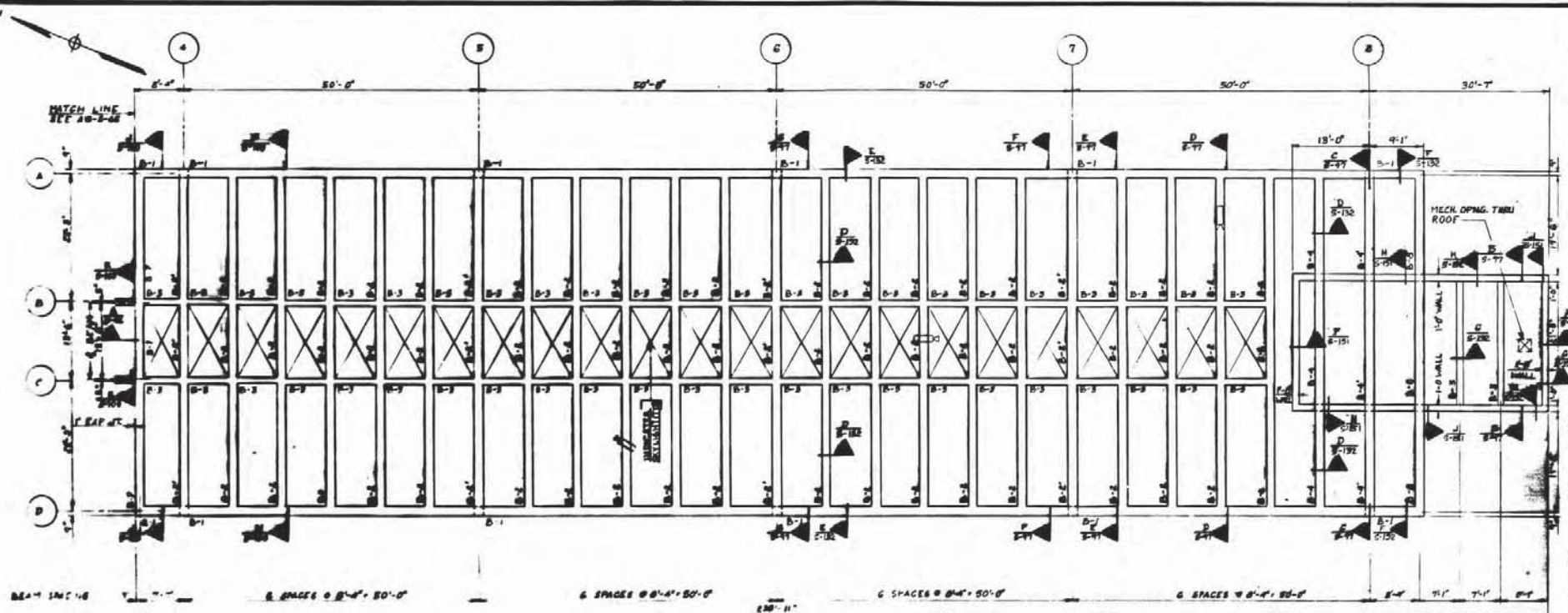
ROOM	DESCRIPTION
102	OPERATIONS RM.
105	ELEV. MACH. RM.
106	NORTH AC SWBD RM.
107	SOUTH AC SWBD RM.
108	NORTH BATTERY RM.
109	SOUTH BATTERY RM.
110	NORTH MECH. RM.
111	SOUTH MECH. RM.
112	COMMUNICATIONS RM.
114	TRAIN CONTROL RM.

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP
SHADY GROVE ROUTE
GROSVENOR STATION
AC POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: N.T.S. DRAWING No. MM-A-E29



PLAN

NOTE:
 * INDICATES TV CAMERA LOCATION. ALL CONDUITS & JUNCTION BOXES SHALL BE IMBEDDED IN STRUCTURE FOR CONDUIT INSTALLATION & LOCATION SEE SHEETS A13 E-25, A13 E-26, & A13 L 25.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 DATE: 08/23/84
 BY: [Signature]

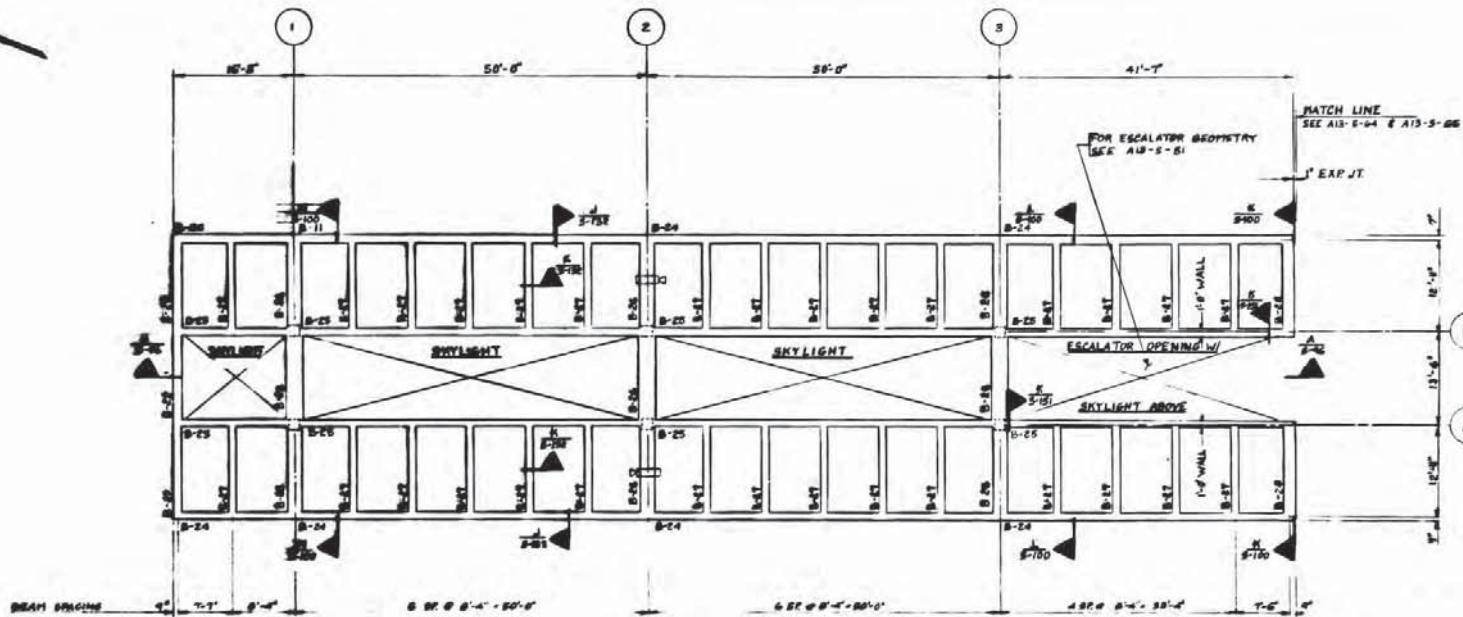


NO.	DESCRIPTION	DATE	BY
1	REV. 10/1/84		
2	REVISIONS		
3	CONSTRUCTION PLAN		
4	REV. 10/1/84		

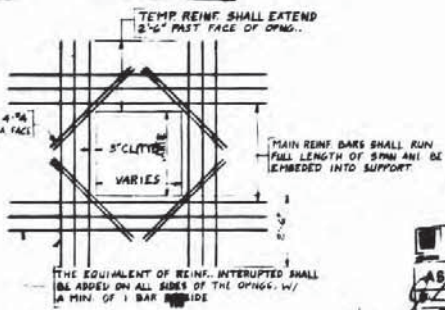
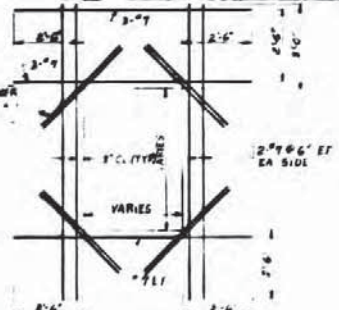
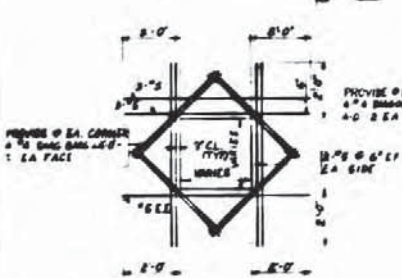


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 SECTION DESIGNER
BOONNEY-HORN
 CONSULTING ENGINEERS AND PLANNERS
 1400 15th St. N.W.
 WASHINGTON, D.C. 20005
 PHONE: 202-331-1111

ROCKVILLE ROUTE
GROSVENOR STATION
MEZZANINE ROOF BEAM
FRAMING PLAN
 SCALE: 1/8" = 1'-0"
 SHEET NO: A13-B-64
 PROJECT NO: M220-300



PLAN



NOTES

1. [Symbol] INDICATES TV CAMERA LOCATION. ALL CONDUITS & JUNCTION BOXES SHALL BE EMBEDDED IN STRUCTURE FOR CONDUIT INSTALLATION & LOCATION SEE SHEETS A13-5-25, A13-5-26 & A13-5-28.

2. FOR LOCATION OF OPENINGS IN CONC WALLS SEE SHEETS A13-5-6 & A13-5-7

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 DATE: 08/28/08
 BY: [Signature]



NO.	DESCRIPTION	DATE	BY	CHKD BY
1	AS-BUILT CONDITION	08/28/08	[Signature]	[Signature]

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGN: **BUCHART-HORN**
 CONSULTING ENGINEERS AND PLANNERS

BY LEAH CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANTS

DATE: 08/28/08

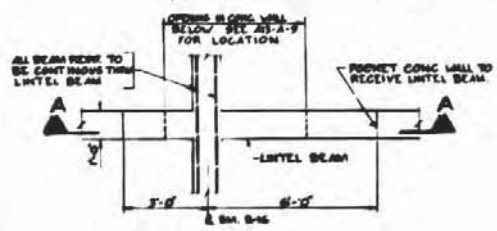
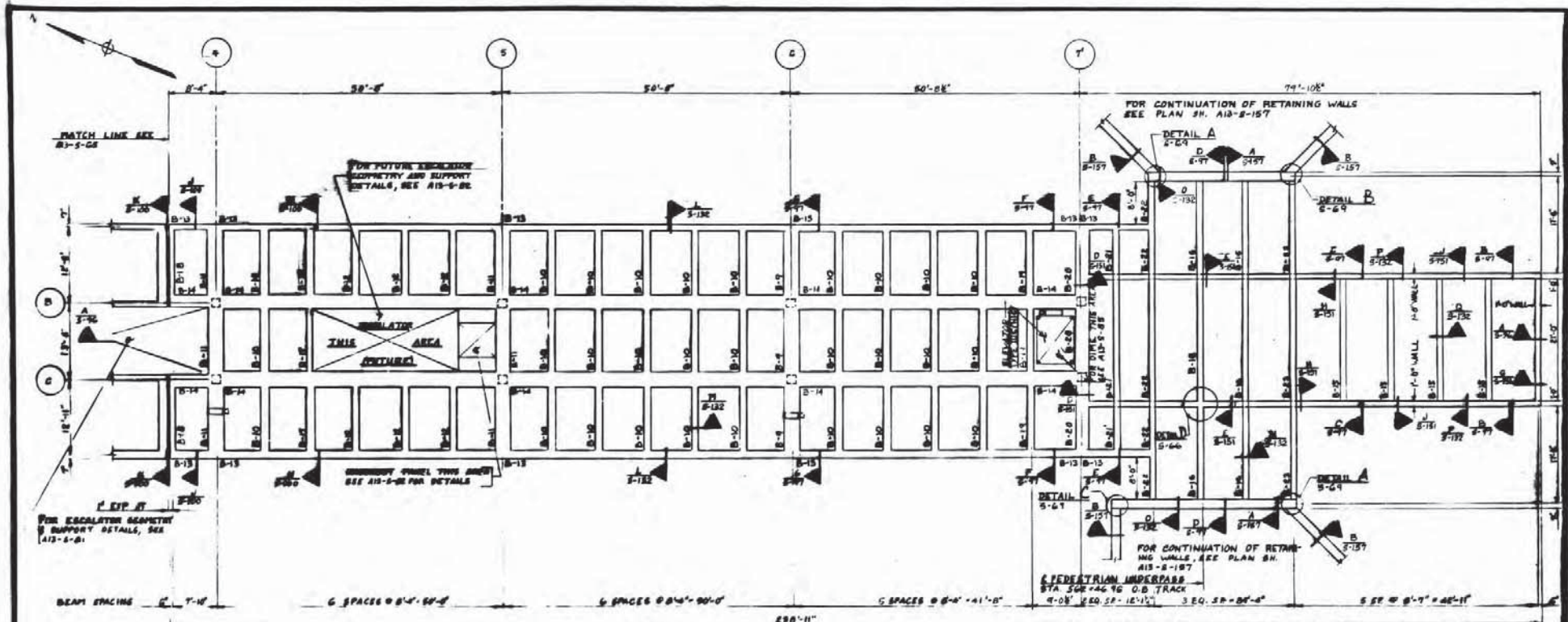
ROCKVILLE ROUTE
 BROWNVOR STATION
 CANOPY ROOF BEAM
 FRAMING PLAN

SCALE: 1/4" = 1'-0"

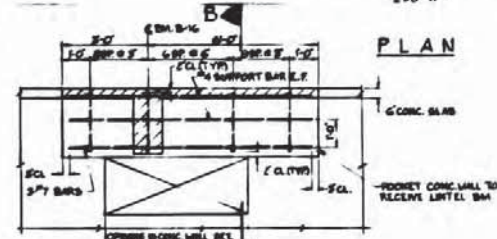
DATE: 08/28/08

PROJECT NO: A13-5-05

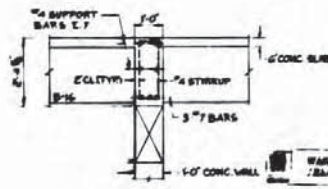
DRAWING NO: M220-367



DETAIL D
SCALE 1/4" = 1'-0"
NOTE: POUR B.M. B-16 AND LINTEL BEAM MONOLITHICALLY



SECTION A-A
SCALE 1/4" = 1'-0"



SECTION B-B
SCALE 1/4" = 1'-0"
AS-BUILT CONDITION

NOTE:
SYMBOL INDICATES TV CAMERA LOCATION. ALL CONDUITS AND JUNCTION BOXES SHALL BE EMBEDDED IN STRUCTURE FOR CONDUIT INSTALLATION AND LOC. SEE SHEETS AIS-L-23, AIS-L-24, AIS-L-25.

NO.	DESCRIPTION	DATE	BY	CHKD.
1	REV. PLAN & SECTION			
2	MECHANICAL LAYOUT			
3	CONCRETE FINISH PLAN			
4	ELECTRICAL DETAILS			
5	MECHANICAL DETAILS			



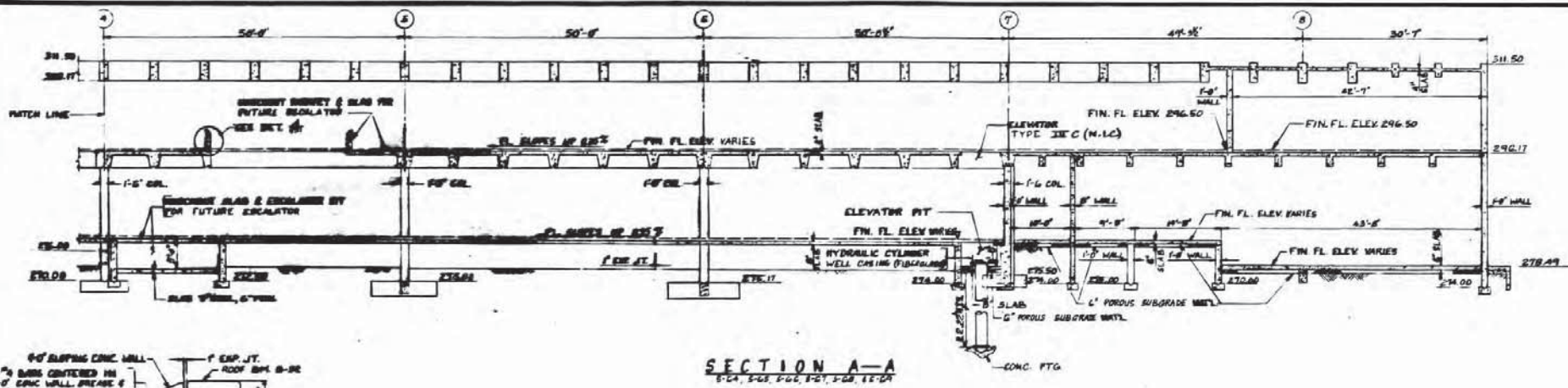
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-MORRIS
CONSULTING ENGINEERS AND PLANNERS

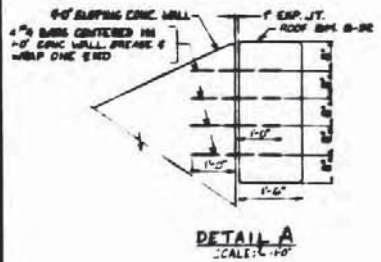
BY: LEWIS, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANTS
FORNEY WISSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANTS

ROCKVILLE ROUTE
GROBVENOR STATION
WEZZANNE FLOOR BEAM
FRAMING PLAN

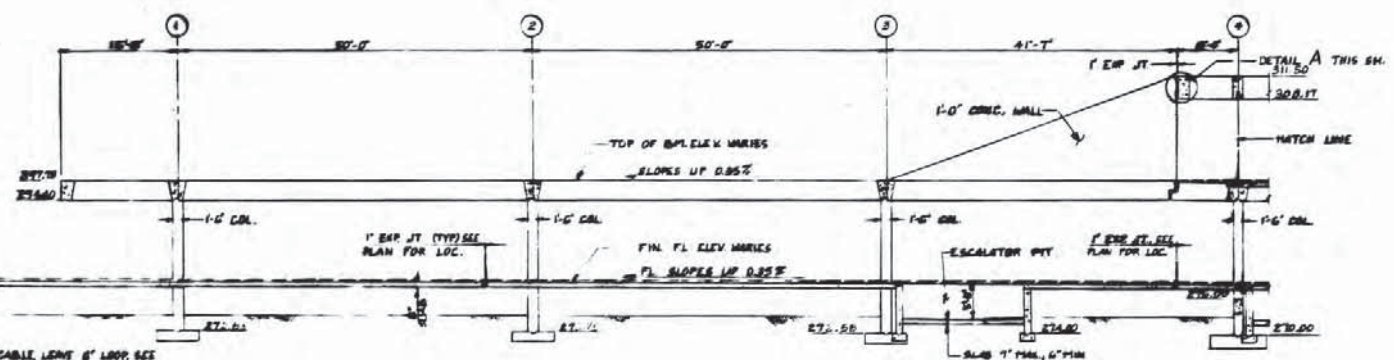
SCALE: 1/4" = 1'-0"
DATE: 11/10/86
SHEET: AIS-5-B-06
PROJECT: M220-300



SECTION A-A
S-GA, S-GC, S-GD, S-GT, S-GH, S-GI



DETAIL A
SCALE: 1/4" = 1'-0"



SECTION A-A (CONT)
S-GA, S-GC, S-GD, S-GT, S-GH, S-GI

80001 CUT AND COVER END PLATFORM
STN. 804-8
SEE A12-S-40

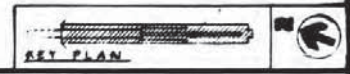
BONDING CABLE LEAVE 6' LONG. SEE
NOTE & DWG. A12-S-11

ALL STEEL, SLAB, WALLS & SUPPORTING DECS. TO
BE CLASS 8000 CONC.
ALL WALL AND COL. FTG. TO BE CLASS 8000 CONC.

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY

AS-BUILT CONDITION

DATE: 03/28/96



NO.	DESCRIPTION	DATE	BY	REVISIONS
1	REVISIONS			
2	REVISIONS			
3	REVISIONS			
4	REVISIONS			
5	REVISIONS			
6	REVISIONS			
7	REVISIONS			
8	REVISIONS			
9	REVISIONS			
10	REVISIONS			
11	REVISIONS			
12	REVISIONS			
13	REVISIONS			
14	REVISIONS			
15	REVISIONS			

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER:
BUCHART-MORRIS
CONSULTING ENGINEERS AND PLANNERS

DATE: 03/28/96

SEAL: [Professional Engineer Seal]

BY: [Signature]

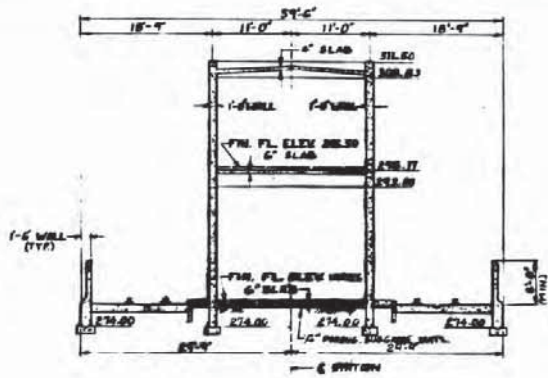
ROCKVILLE ROUTE

GROSMONT STATION
PLATFORM, MEZZANINE, & SERVICE ROOM

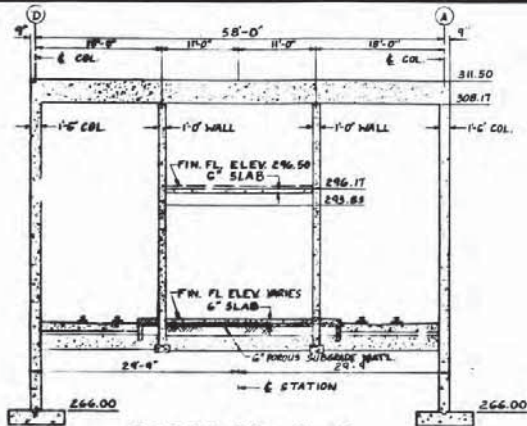
SECTION NO. **A12-S-96**

DATE: 03/28/96

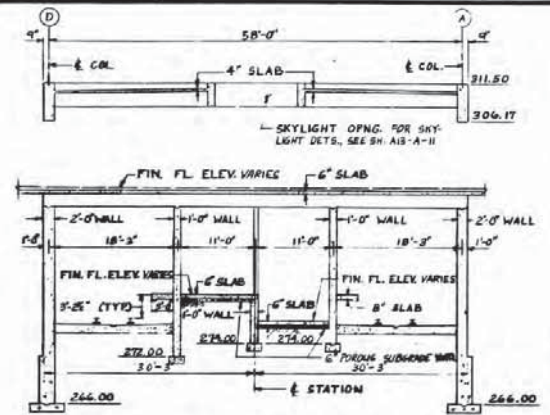
NO. **M220-300**



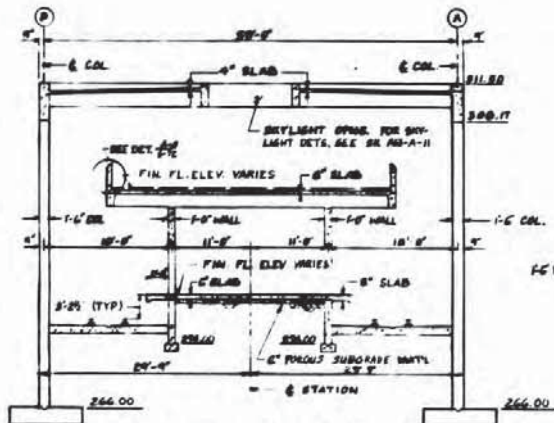
SECTION B-B
S-C4, S-5C, & S-6A



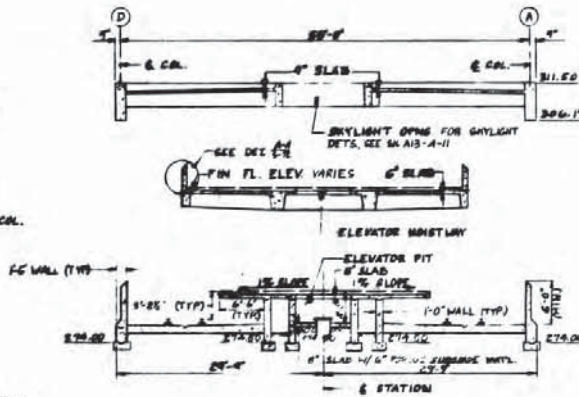
SECTION C-C
S-C4, S-5C, & S-C4



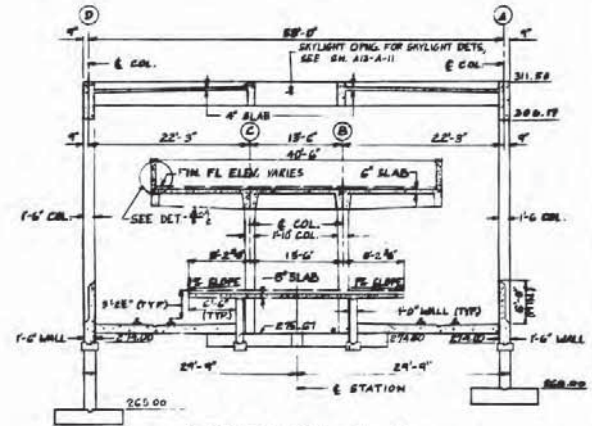
SECTION D-D
S-C4, S-5C, & S-C4



SECTION E-E
S-C4, S-5C, & S-6A



SECTION F-F
S-C4, S-5C, & S-C4



SECTION G-G
S-C4, S-5C, & S-6A

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 [Signature]

NO.	SECTION	DATE	DESCRIPTION	BY	CHKD.
1	SECTION B-B	11/10/83	STEEL DECK FRAMING PLAN	[Signature]	[Signature]
2	SECTION C-C	11/10/83	MEZZANINE FLOOR FRAMING PLAN	[Signature]	[Signature]
3	SECTION D-D	11/10/83	PARTIAL FOUNDATION PLAN	[Signature]	[Signature]

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER: **BUCHART-MORN**
 CONSULTING ENGINEERS AND PLANNERS

DE LEAN, CATNER & COMPANY
 SENIOR ENGINEERING CONSULTANT

HARRY WENZEL & ASSOCIATES
 SENIOR ARCHITECTURAL CONSULTANT

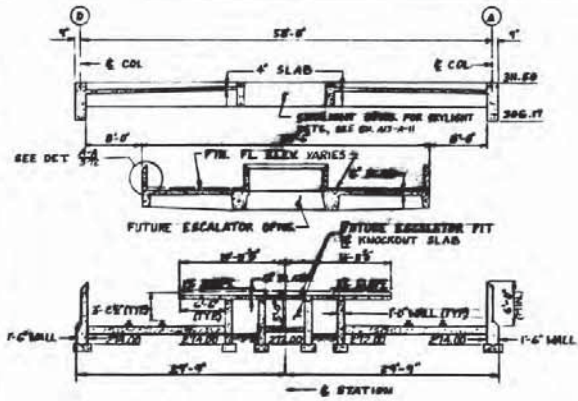
DATE: 11/10/83

ROCKVILLE ROUTE
 GROSVENOR STATION
 PLATFORM, MEZZANINE, B SERVICE ROOM

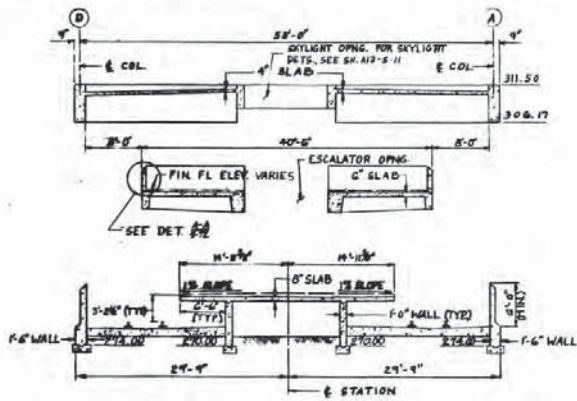
SECTIONS

SCALE: 1" = 1'-0"

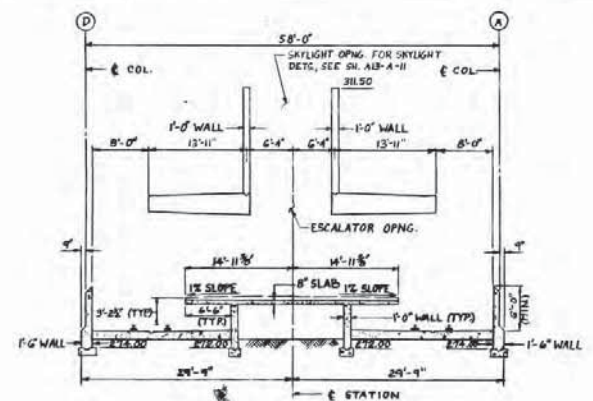
NO. 11
 A13-S-97 M220-370



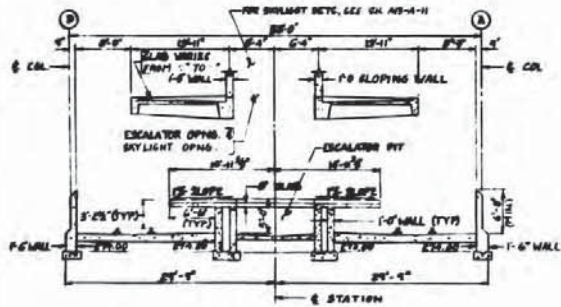
SECTION H-H
5-04, 5-06, & 5-09



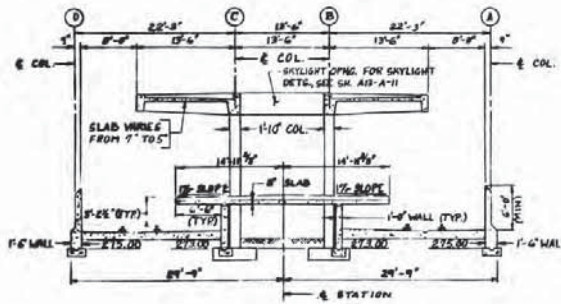
SECTION J-J
5-04, 5-06, 5-08, & 5-09



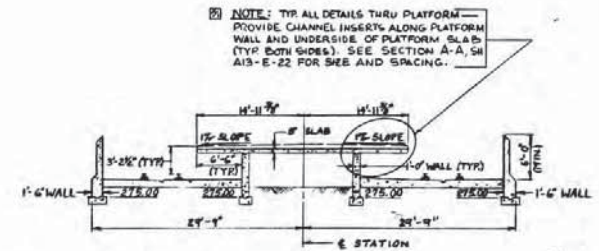
SECTION K-K
5-04, 5-08, 5-06, 5-08, & 5-09



SECTION L-L
5-04 & 5-08



SECTION M-M
5-04 & 5-08



SECTION N-N
5-07 & 5-08

NOTE: TRY ALL DETAILS THRU PLATFORM—
PROVIDE CHANNEL INSERTS ALONG PLATFORM
WALL AND UNDERSIDE OF PLATFORM SLAB
(TRY BOTH SIDES). SEE SECTION A-A, SH
A13-E-22 FOR SIZE AND SPACING.

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
MAY 03 1979

NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION
1	10/11/78	J.P.	RETAINING FOOT FRAMING PLAN	1	11/17/78	J.P.	ADDED NOTE CALLING OUT CHANNEL INSERTS AND REFERENCING TO ELEC. DWG FOR SIZE AND SP.
2	10/11/78	J.P.	CANOPY ROOF FRAMING PLAN				
3	10/11/78	J.P.	RETAINING FLOOR FRAMING PLAN				
4	10/11/78	J.P.	STRUCTURAL FOUNDATION PLANS				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEW, CATHY & COMPANY
GENERAL ENGINEERING CONSULTANT

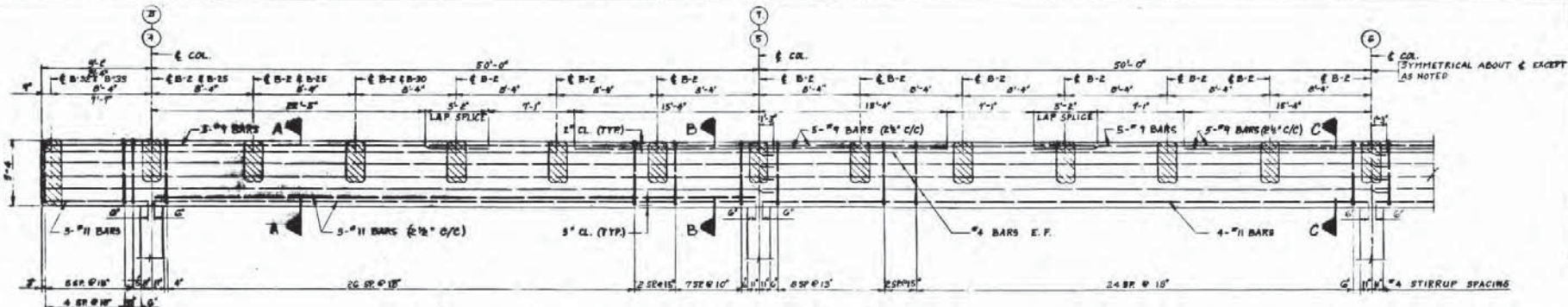
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED: *[Signature]*

ROCKVILLE ROUTE
GROSVENOR STATION
PLATFORM, MEZZANINE, & SERVICE ROOM
SECTIONS

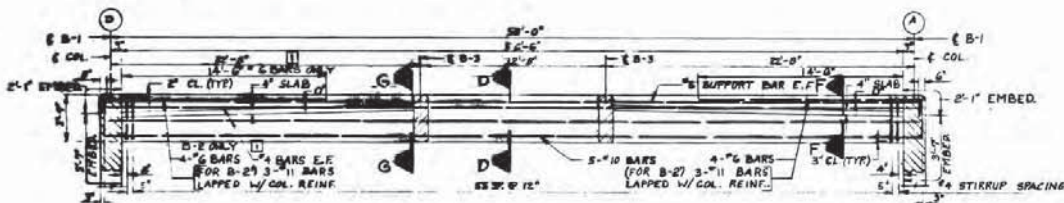
SCALE: 1" = 1'-0"

DRAWING NO. **A13-S-100** | M220-371



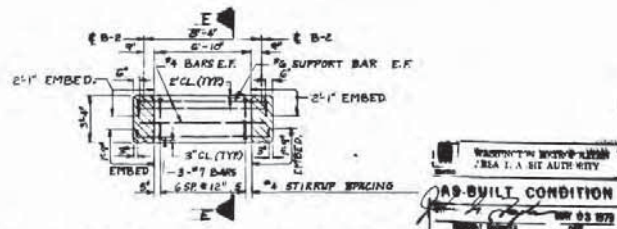
ELEVATION OF BEAM B-1

SCALE: 1/4"=1'-0"



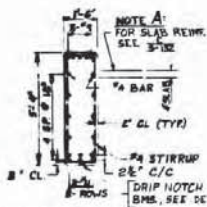
ELEVATION OF BEAM B-2 & B-2'

SCALE: 1/4"=1'-0"

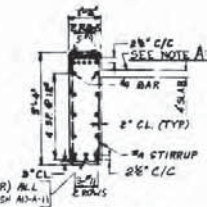


ELEVATION OF BEAM B-3

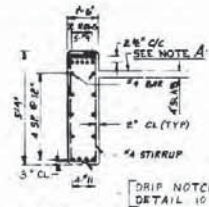
SCALE: 1/4"=1'-0"



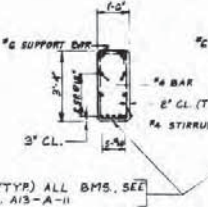
SECTION A-A
SCALE: 1/4"=1'-0"



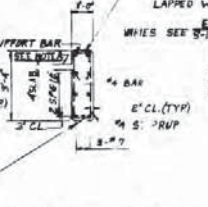
SECTION B-B
SCALE: 1/4"=1'-0"



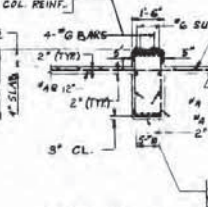
SECTION C-C
SCALE: 1/4"=1'-0"



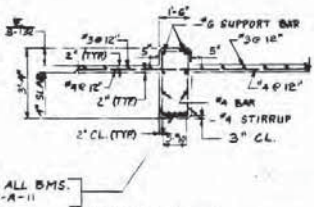
SECTION D-D
SCALE: 1/4"=1'-0"



SECTION E-E
SCALE: 1/4"=1'-0"



SECTION F-F
SCALE: 1/4"=1'-0"



SECTION G-G
SCALE: 1/4"=1'-0"

NOTE: PROVIDE PVC SLEEVE THRU CONC. BEAM FOR 3/4" DIA DRAINAGE HOLE WHERE OCCURS. FOR LOCATION SEE SH. A13-M-14.

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
1	ROOF BEAM FINISH PLAN	3-25-78	TMT
2	SLAB SECTIONS		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEIN, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HENRY WISSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

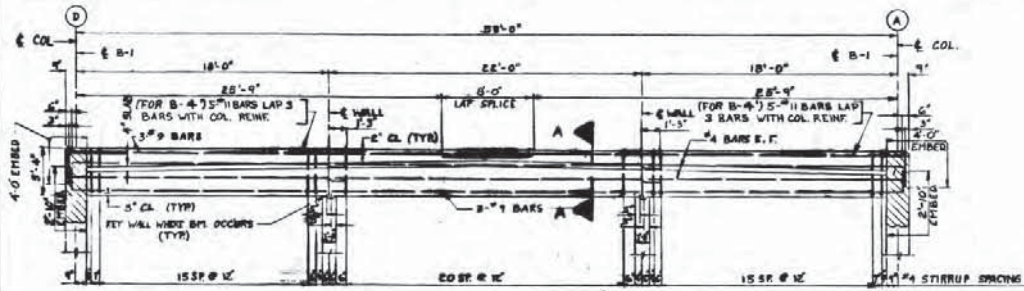
SUBMITTED: *[Signature]* APPROVED: *[Signature]*

ROCKVILLE ROUTE
GROSVENOR STATION
MEZZANINE
ROOF BEAMS

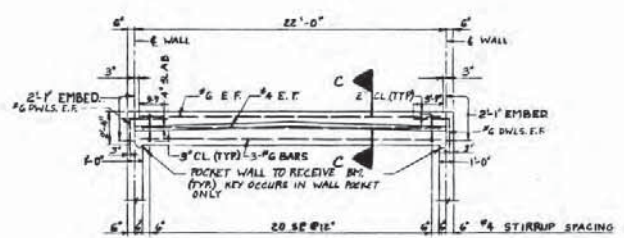
SCALE: AS NOTED

DRAWING NO.
A13-S-70

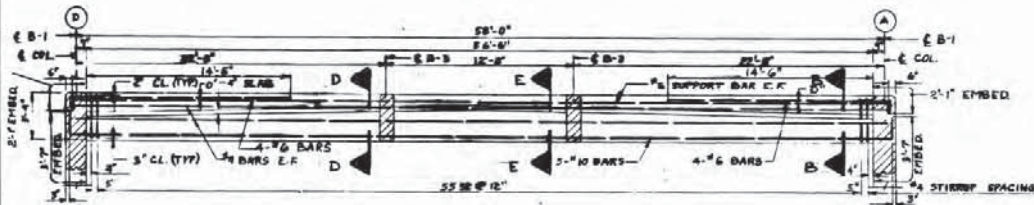
M220-378



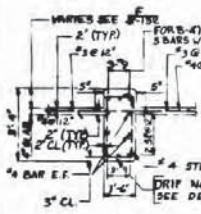
ELEVATION OF BEAM B-4 & B-4'
SCALE: 1/4" = 1'-0"



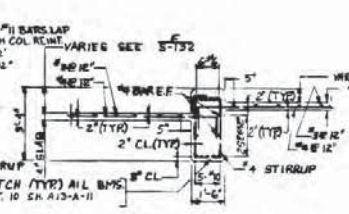
ELEVATION OF BEAM B-5
SCALE: 1/4" = 1'-0"



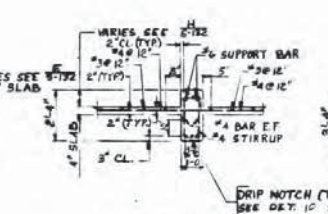
ELEVATION OF BEAM B-6
SCALE: 1/4" = 1'-0"



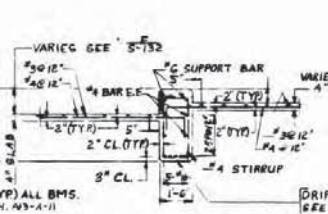
SECTION A-A
SCALE: 1/2" = 1'-0"



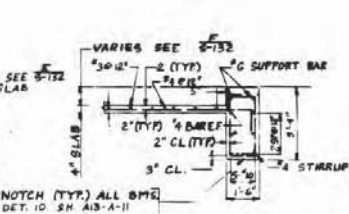
SECTION B-B
SCALE: 1/2" = 1'-0"



SECTION C-C
SCALE: 1/2" = 1'-0"



SECTION D-D
SCALE: 1/2" = 1'-0"



SECTION E-E
SCALE: 1/2" = 1'-0"

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
DATE: 10/28/88
BY: J. S. B. JR.

NOTE:
PROVIDE PIPE SLEEVE THRU CONC BEAM
FOR 3" I.D. DRAINAGE HOLE WHERE OCCURS.
FOR LOCATION SEE SH. A13-A-11

DATE	BY	REVISIONS

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEW, CATHER & COMPANY
GENERAL CONTRACTOR

REVISIONS & APPROVALS
GENERAL ARCHITECTURAL CONSULTANT

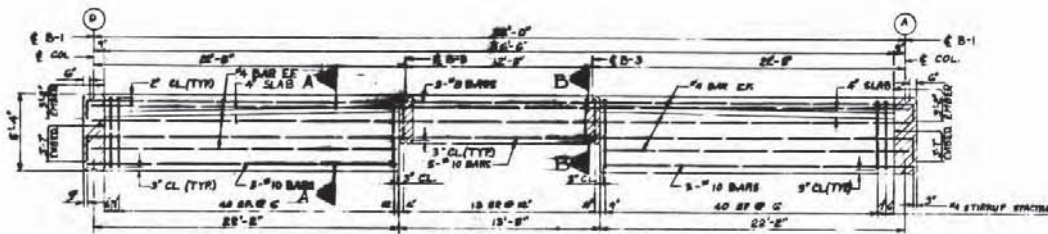
SUBMITTED: 1/24/88

ROCKVILLE ROUTE GROSVENOR STATION

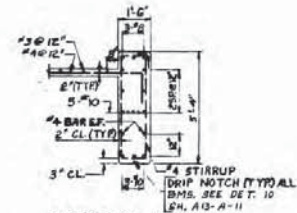
MEZZANINE ROOF BEAMS

AS NOTED

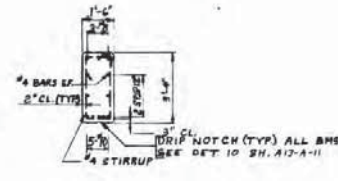
A13-S-102 M220-579



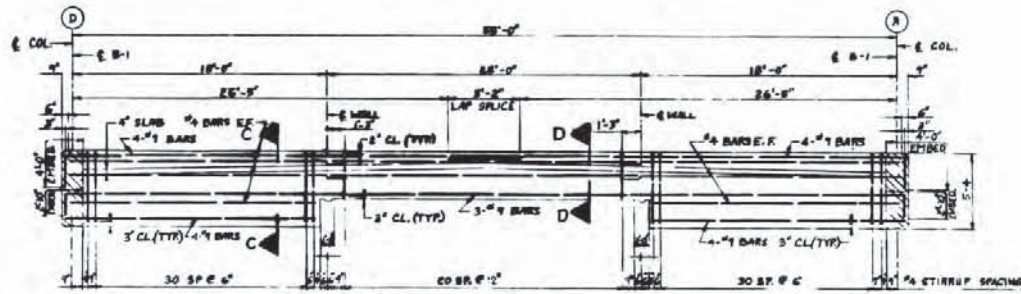
ELEVATION OF BEAM B-7
SCALE: 1/2"=1'-0"



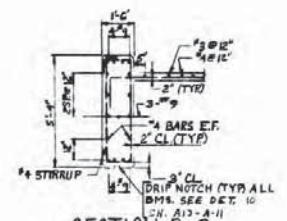
SECTION A-A
SCALE: 1/2"=1'-0"



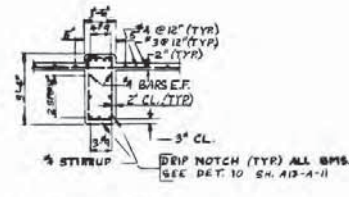
SECTION B-B
SCALE: 1/2"=1'-0"



ELEVATION OF BEAM B-8
SCALE: 1/2"=1'-0"



SECTION C-C
SCALE: 1/2"=1'-0"



SECTION D-D
SCALE: 1/2"=1'-0"

WARNING: IN METRO AREA
THIS DRAWING IS AS-BUILT
AS-BUILT CONDITION
DATE: 08/08/03

DESIGNED	A. J. KAY	DATE	08/08/03
CHECKED	A. J. KAY	DATE	08/08/03
APPROVED	A. J. KAY	DATE	08/08/03

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
0-1	MEZZANINE BR TRANSFER PLAN	08/08/03	AK
0-2	SLAB SECTIONS		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT
HARRY WEISER & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

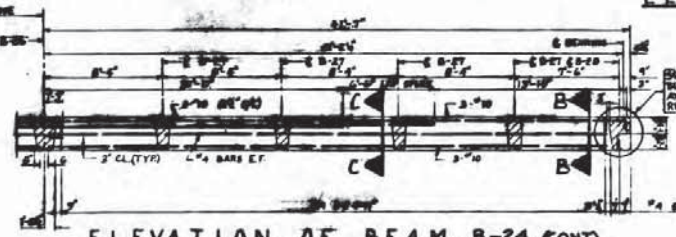
SUBMITTED: *[Signature]* APPROVED: *[Signature]*

ROCKVILLE ROUTE
GROSVENOR STATION
MEZZANINE
ROOF BEAMS

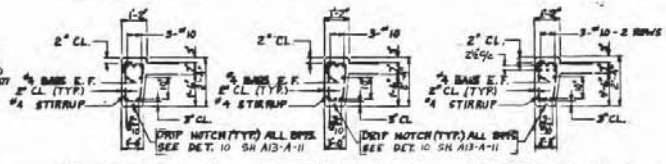
SCALE: AS NOTED DRAWING NO: A13-S-165 M220-380



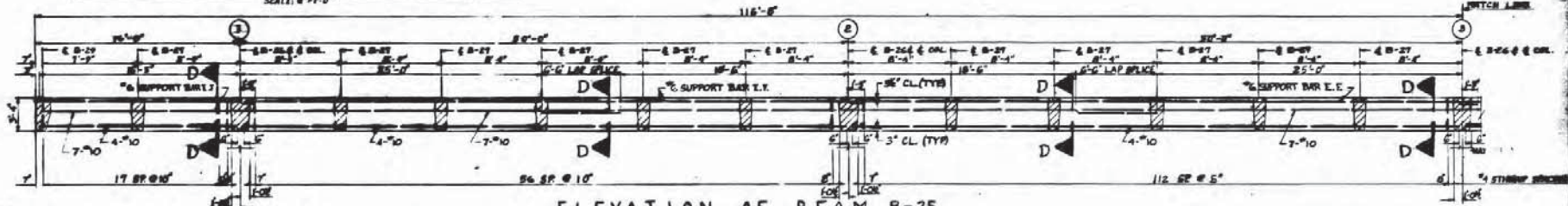
ELEVATION OF BEAM B-24
SCALE: 1/4"=1'-0"



ELEVATION OF BEAM B-24 (CONT.)
SCALE: 1/4"=1'-0"



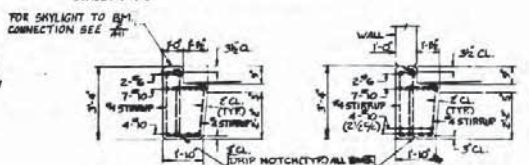
SECTION A-A SCALE: 1/4"=1'-0" SECTION B-B SCALE: 1/4"=1'-0" SECTION C-C SCALE: 1/4"=1'-0"



ELEVATION OF BEAM B-25
SCALE: 1/4"=1'-0"



ELEVATION OF BEAM B-25 (CONT.)
SCALE: 1/4"=1'-0"



SECTION D-D SCALE: 1/4"=1'-0" SECTION E-E SCALE: 1/4"=1'-0"

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
DATE: MAY 03 1979

NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION
1	11-25-78	J. O'NEILL	CANOPY BM FRAM PLAN				
2	1-10-79	J. O'NEILL	SLAB SECTIONS				



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

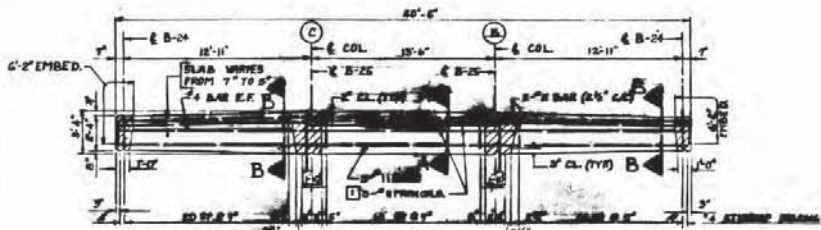
SECTION DESIGNER
BUCHART-MORRIS
CONSULTING ENGINEERS AND PLANNERS

DE LEUF, CATHY & COMPANY
GENERAL ENGINEERING CONSULTANT

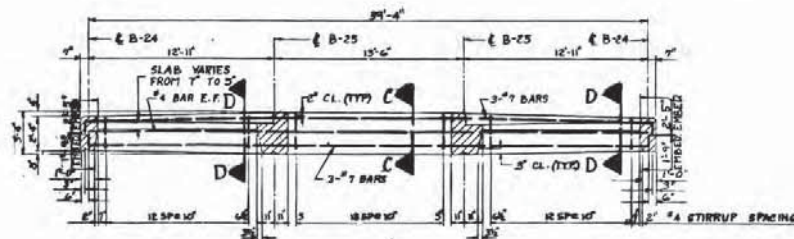
HARRY WISSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

ROCKVILLE ROUTE
GROSVENOR STATION
CANOPY
ROOF BEAMS

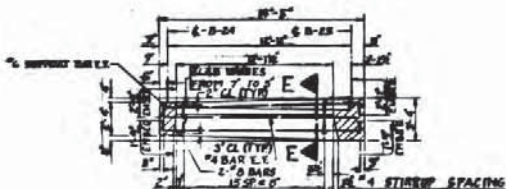
SCALE: AS NOTED DRAWING NO: A13-S-107 M220-380



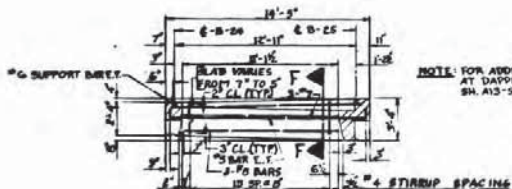
ELEVATION OF BEAM B-26
SCALE: 1/4"=1'-0"



ELEVATION OF BEAM B-29
SCALE: 1/4"=1'-0"



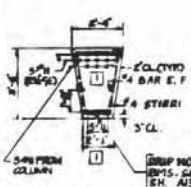
ELEVATION OF BEAM B-27
SCALE: 1/4"=1'-0"



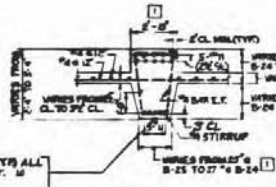
ELEVATION OF BEAM B-28
SCALE: 1/4"=1'-0"

NOTE: FOR ADDITIONAL REINFT
AT DAPPED ENDS SEE
SH. A13-5-177.

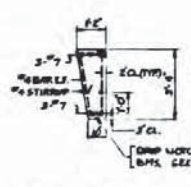
WASHINGTON METRO AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
DATE: 03/27/82



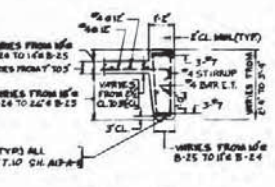
SECTION A-A
SCALE: 1/2"=1'-0"



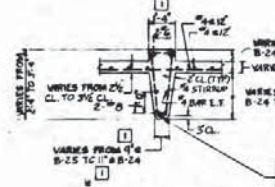
SECTION B-B
SCALE: 1/2"=1'-0"



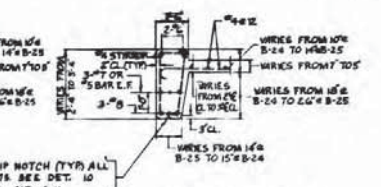
SECTION C-C
SCALE: 1/2"=1'-0"



SECTION D-D
SCALE: 1/2"=1'-0"



SECTION E-E
SCALE: 1/2"=1'-0"



SECTION F-F
SCALE: 1/2"=1'-0"

NOTE:
PROVIDE PVC SLEEVES THRU CONC. BEAM
FOR 3/4" D. DRAINAGE HOLES WHERE OCCURS.
FOR LOCATION SEE SH. A13-M-14

REVISION	DATE	DESCRIPTION	BY	CHKD	APP'D
1	3-25-82	REVISED PER FIELD COND. NO. 30-1827			
2	3-13-82	SLAB SECTIONS			

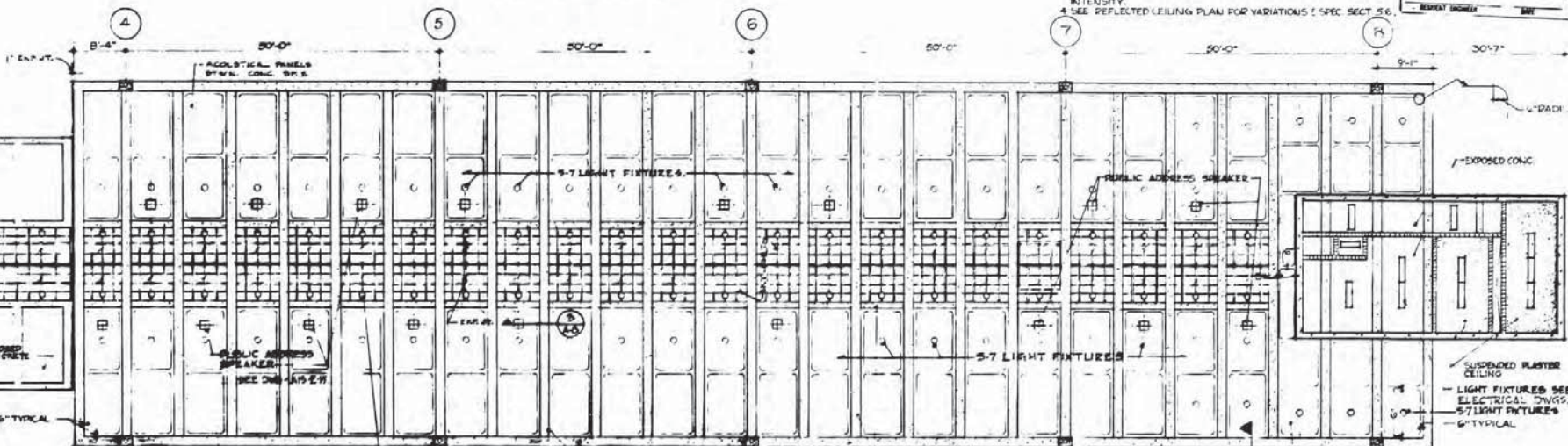
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY SECTION DESIGNER BUCHART-HORN CONSULTING ENGINEERS AND PLANNERS DESIGNED: <i>John G. Smith</i>		DE LEON, CATHY & COMPANY GENERAL ENGINEERING CONSULTANTS SENIOR ENGINEER & ASSOCIATES GENERAL MECHANICAL CONSULTING APPROVED: <i>J. G. Smith</i>		ROCKVILLE ROUTE GROSVENOR STATION CANOPY ROOF BEAMS DRAWING NO. AS NOTED A13-S-108	
---	--	--	--	---	--

M220-387

5. FOR LOCATION OF PLATFORM PUBLIC ADDRESS
LOUD SPEAKERS, SEE ELECTRICAL DRAWINGS.
FOR LOCATION OF ADDITIONAL TV CAMERAS, NOT SHOWN
ON ARCHITECTURAL DRAWINGS, SEE FIGS. 48-A-D).
SEE ELECTRICAL DRAWINGS, E-29, 24, 25 & 50.

NOTES
1. EXACT LOCATION OF SPEAKERS, SEE ELECTRICAL DWGS.
2. SEE SPECIFICATION 512 FOR PROTECTION OF DIS-
SIMILAR METALS.
3. THE CONNECTION DETAILS AND PANEL METAL THICKNESS
OF VAULT PLATFORM AND CEILING ACOUSTICAL PANELS
SHALL WITHSTAND 15 LBS. I.T.K. SQ. FT. PRESSURE WAVE
INTENSITY.
4. SEE REFLECTED CEILING PLAN FOR VARIATIONS. SPEC SECT. 50.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
RESPECT DIMENSIONS



1 MEZZANINE REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

LIGHT FIXTURES, SEE
DWG. A13-E-10

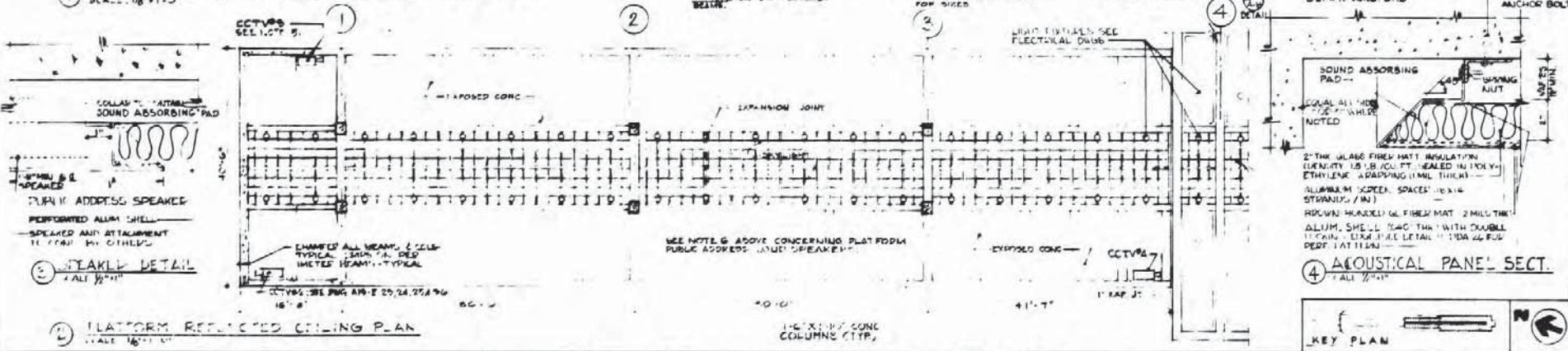
CHAMFER ALL BEAMS & COLS
TYPICAL. DRIPS ON PERMITTED
BEAMS.

EXPOSED CONG. BEAMS
SEE STRUCTURAL DWGS.
FOR SIZES.

1'-6" X 1'-10" CONG.
COLUMN (TYP.)

ACOUSTICAL PANELS
BETWEEN CONG. BMS

POWER BOWER
ANCHOR BOLT



2 PLATFORM REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

CHAMFER ALL BEAMS & COLS
TYPICAL. DRIPS ON PERMITTED
BEAMS.

SEE NOTE 6 ABOVE CONCERNING PLATFORM
PUBLIC ADDRESS (LOUD) SPEAKERS.

EXPOSED CONG.

4 ACOUSTICAL PANEL SECT.
SCALE: 1/2" = 1'-0"

KEY PLAN

DESIGNED	B.W.C. 1-77
CHECKED	E.R. 9-1-77
APPROVED	

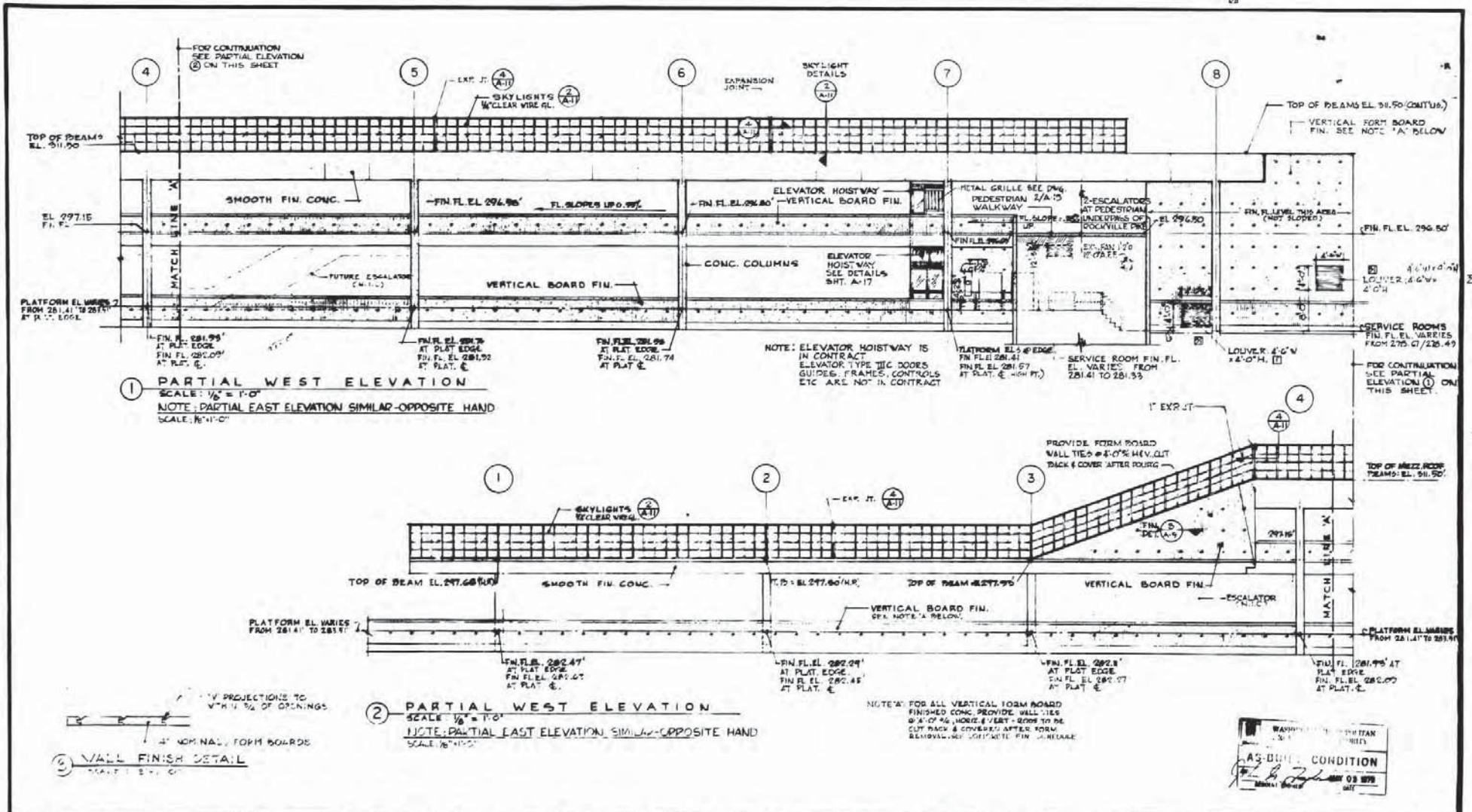
REFERENCE DRAWINGS	REVISIONS		
NO.	DATE	BY	DESCRIPTION
1			STATS LIGHT FIXTURES

DATE	BY	DESCRIPTION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 DESIGN ENGINEER
BUCHART-NORN
 CONSULTING ENGINEERS AND PLANNERS
 DE LEW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WISSE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

**ROCKVILLE ROUTE
GROSVENOR STATION
MEZZANINE REFLECTED CEILING PLAN**
 SCALE: 1/8" = 1'-0"
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]
 DATE: 9-1-77
 SHEET NO: A13-A-B
 PROJECT NO: M220-407



NO.	DATE	BY	DESCRIPTION
1	9-1-75	RWC	EMERGENCY PREPAREDNESS
2	9-1-75	RWC	
3	9-1-75	RWC	
4	9-1-75	RWC	
5	9-1-75	RWC	

NO.	DATE	BY	DESCRIPTION
1	9-1-75	RWC	EMERGENCY PREPAREDNESS
2	9-1-75	RWC	
3	9-1-75	RWC	
4	9-1-75	RWC	
5	9-1-75	RWC	

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION NUMBER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

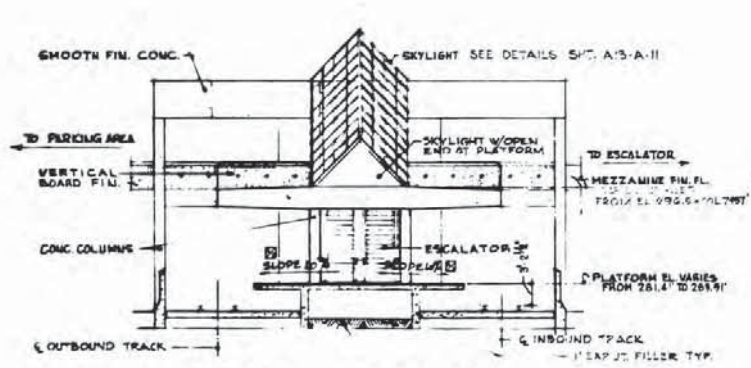
DE LEW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT
HENRY WISBE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

ROCKVILLE ROUTE
GROSVENOR STATION
ELEVATIONS

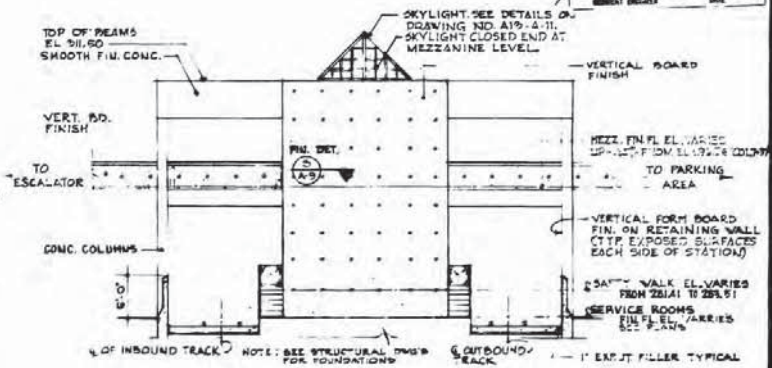
SCALE: 1/8" = 1'-0"
DRAWING NO. **ALS-A-9**
M220-408

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
JUL 23 1975
M. J. B. [Signature]

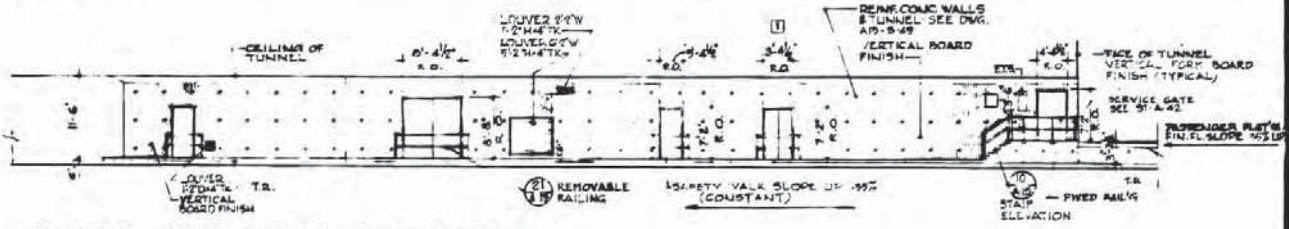
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 DATE: MAY 03 1978
 DRAWN BY: [Signature]



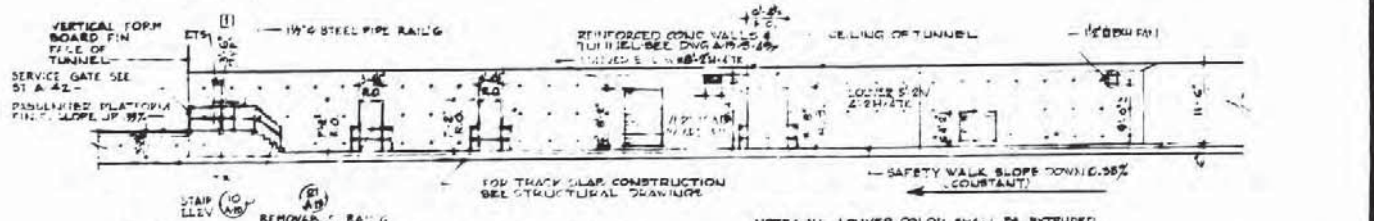
① NORTH ELEVATION
 SCALE: 1/8" = 1'-0"



② SOUTH ELEVATION
 SCALE: 1/8" = 1'-0"



③ PARTIAL WEST ELEVATION - SERVICE ROOMS
 SCALE: 1/8" = 1'-0"



④ PARTIAL EAST ELEVATION - SERVICE ROOMS
 SCALE: 1/8" = 1'-0"

NOTE: ALL LOUVER COLOR SHALL BE ENTRENDED ALUMINUM AND TOP PAINT BRONZE.

NO.	DATE	BY	REVISION
02/RVC	9-1-75		
RVC/ERLH	4-1-77		
LC	4-1-77		
LC	4-1-77		

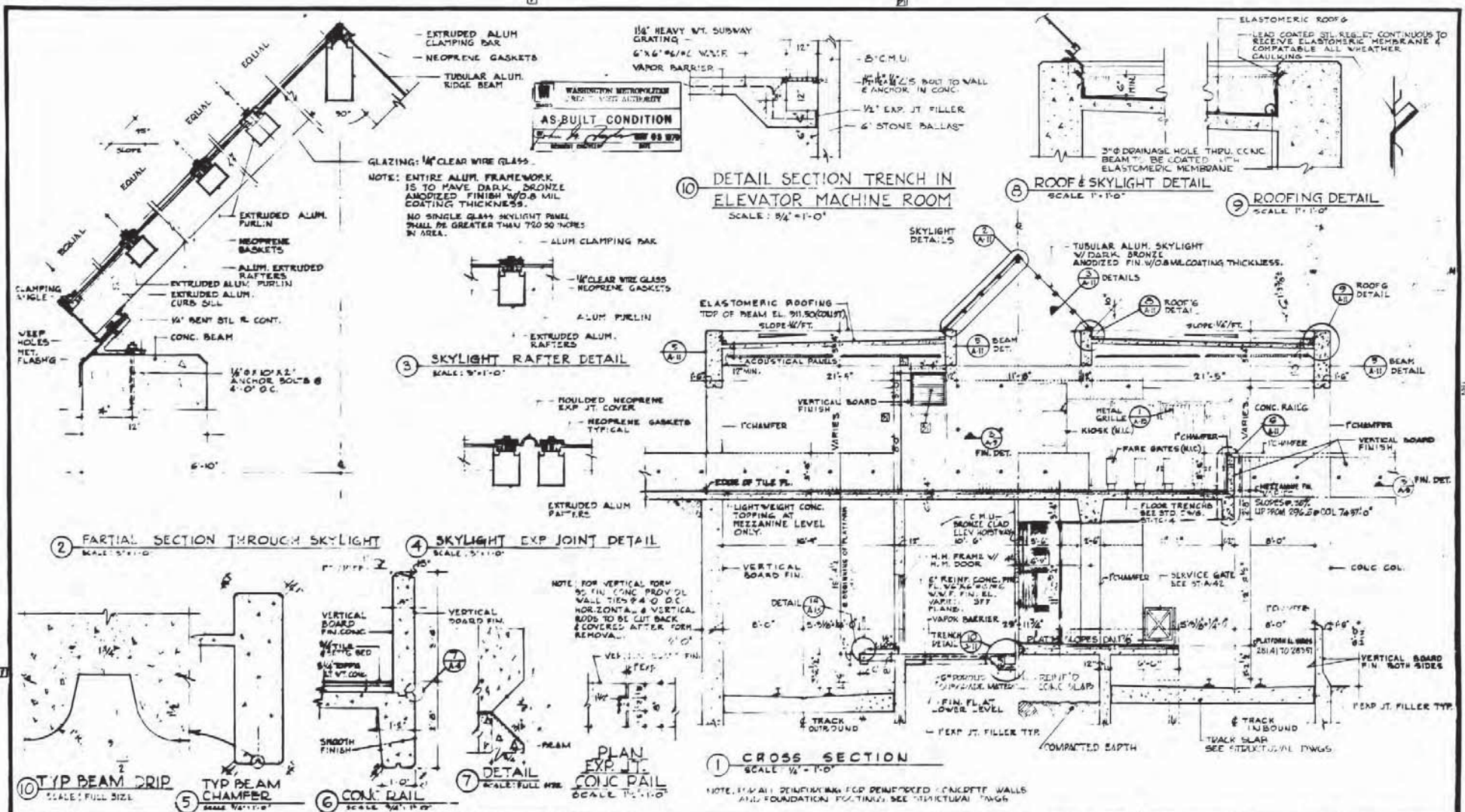
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DESIGNED BY: **BUCHART-MOHN**
 CONSULTING ENGINEERS AND PLANNERS

BY: LEWIS, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANTS
 HARRY GREENE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANTS

ROCKVILLE ROUTE
 GROSVENOR STATION
 ELEVATIONS AND DETAILS

SCALE: 1/8" = 1'-0"
 SHEET NO: A13-A-10
 M220-408



REVISION	DATE	BY	DESCRIPTION
1	11-15-77	EE	ADD REVISIONS TO BEAM CHAMFER
2	11-15-77	EE	ADD REVISIONS TO BEAM CHAMFER
3	11-15-77	EE	ADD REVISIONS TO BEAM CHAMFER
4	11-15-77	EE	ADD REVISIONS TO BEAM CHAMFER
5	11-15-77	EE	ADD REVISIONS TO BEAM CHAMFER
6	11-15-77	EE	ADD REVISIONS TO BEAM CHAMFER
7	11-15-77	EE	ADD REVISIONS TO BEAM CHAMFER
8	11-15-77	EE	ADD REVISIONS TO BEAM CHAMFER
9	11-15-77	EE	ADD REVISIONS TO BEAM CHAMFER
10	11-15-77	EE	ADD REVISIONS TO BEAM CHAMFER

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION ENGINEER
BUCHART-HORN
CONSULTING ENGINEERS AND PLANNERS

DE LEW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

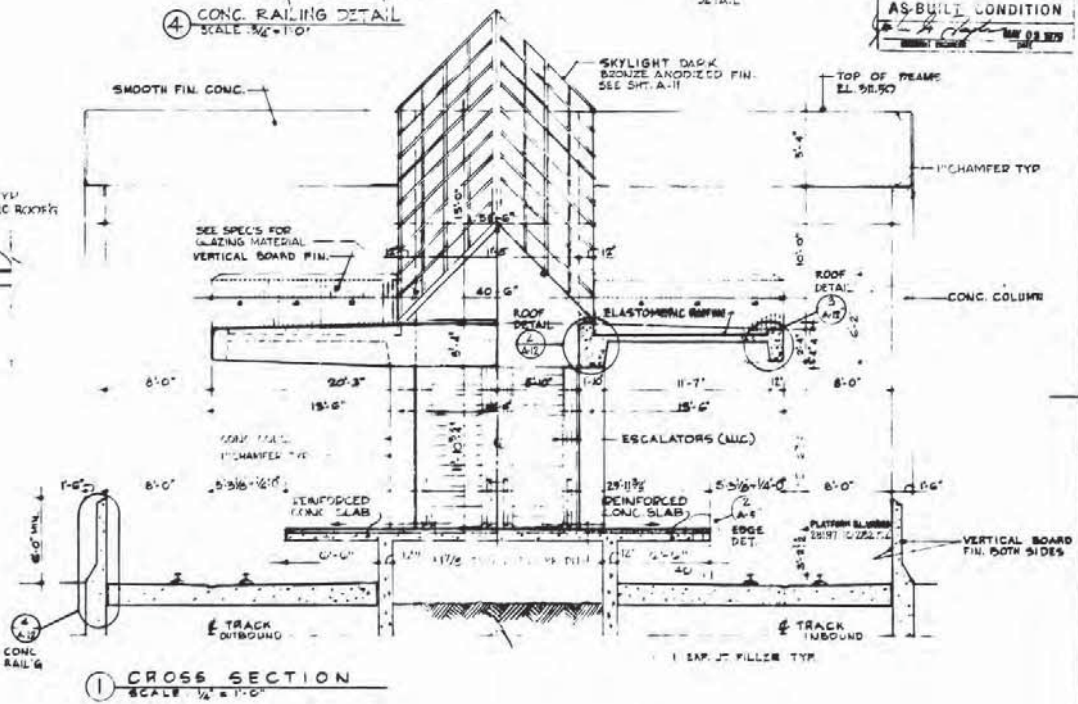
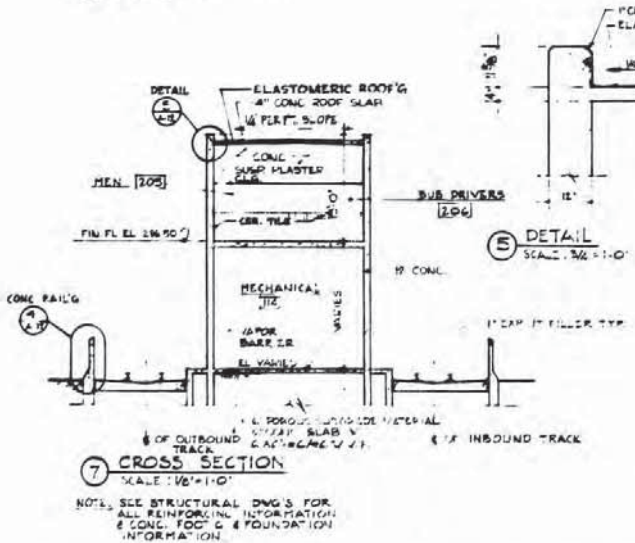
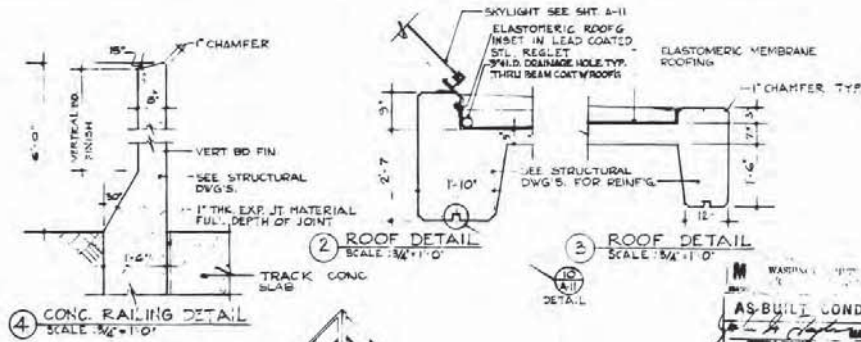
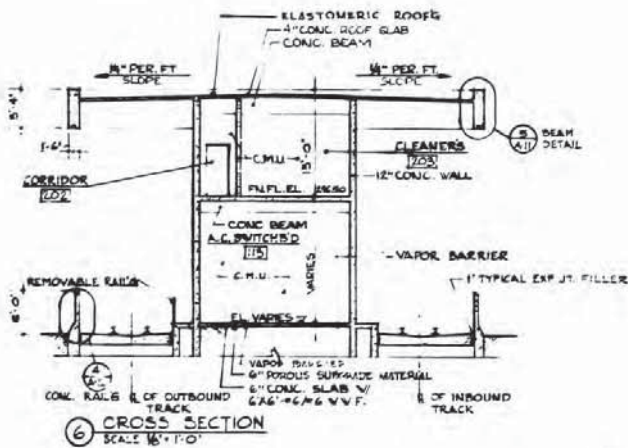
HARRY WISSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

ROCKVILLE ROUTE
GROSVENOR STATION
CROSS SECTION AND DETAILS

SCALE: AS NOTED

REVISION NO. **A15-A-11**

PROJECT NO. **M220-410**



NO.	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
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2	9-1-75					
3	9-1-75					
4	9-1-75					
5	9-1-75					

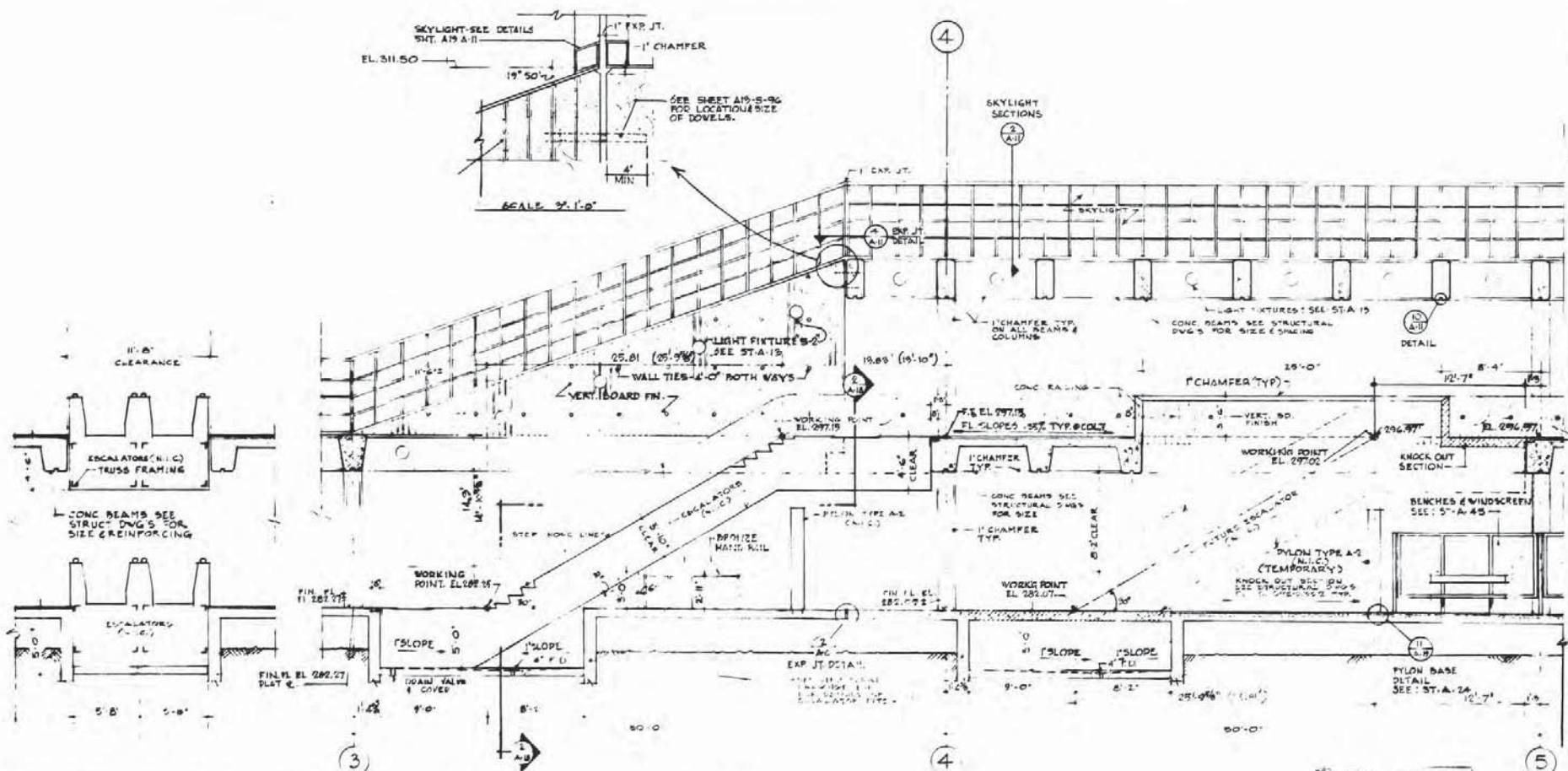
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DESIGNED BY
SUCHART-NORN
CONSULTING ENGINEERS AND PLANNERS

BY
DE LEW, CATHER & COMPANY
REGIONAL ENGINEERING CONSULTANT
HARRY WISSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

ROCKVILLE ROUTE
GROSVENOR STATION
CROSS SECTION AND DETAILS

DATE: 9-1-75
DRAWN BY: [Signature]
CHECKED BY: [Signature]
SCALE: AS SHOWN
SHEET NO. A15-A-12 OF 12
PROJECT NO. M220-411



② SECTION THROUGH ESCALATOR
SCALE: 1/4" = 1'-0"

① SECTION THROUGH ESCALATOR
SCALE: 1/4" = 1'-0"

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 ASB CONDITION
 DATE: 11/22/78
 BY: [Signature]

NO.	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
1	4-10-78	ES/ABC				
2	7-1-78	ER/RWC				
3	7-1-78	BC				
4	7-1-78	BC				
5	7-1-78	BC				

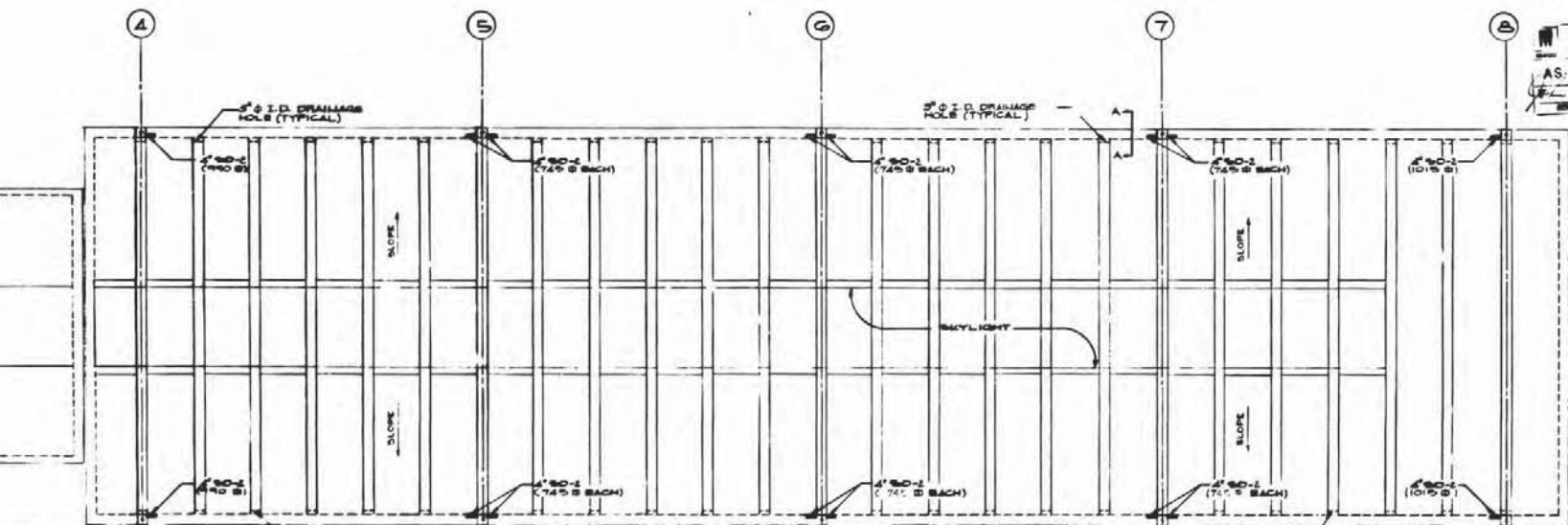
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 SECTION ARCHITECT
BUCHART-HORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEW, CATHY & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEBER & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

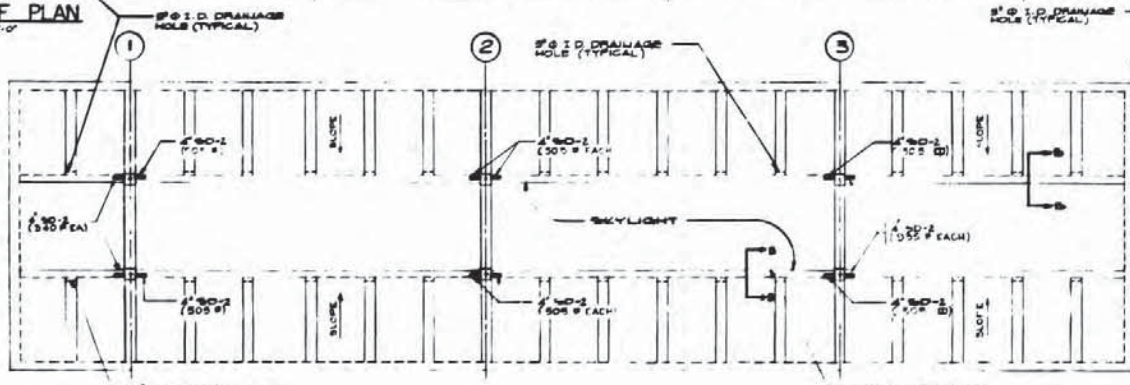
ROCKVILLE ROUTE
GROSVENOR STATION
ESCALATOR SECTIONS

SCALE: 1/4" = 1'-0" SHEET NO: A13-A-18 M220-417

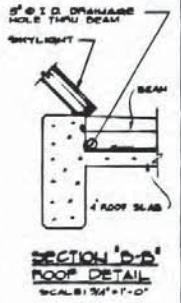
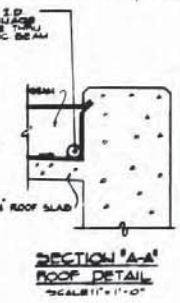
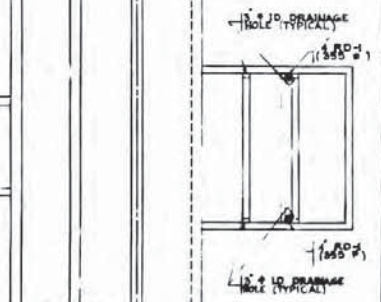
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 DATE: 11/15/97
 SHEET NO. 11220-444



MEZZANINE ROOF PLAN
 SCALE: 1/8"=1'-0"



PLATFORM ROOF PLAN
 SCALE: 1/8"=1'-0"



NO.	DATE	DESCRIPTION	BY	CHKD.
1	11/15/97	DRAINAGE DETAIL / CASTING SHIT 1		
2	11/15/97	DRAINAGE DETAIL / CASTING SHIT 2		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

SECTION DESIGNED BY
BUCHARY-NORN
 CONSULTING ENGINEERS AND PLANNERS

DE LEW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WISSE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

ROCKVILLE ROUTE
GROSVENOR STATION
ROOF PLANS - PLUMBING

SCALE: 1/8"=1'-0" (SEE NOTES)
 SHEET NO. A13-M-14
 DRAWING NO. 11220-444