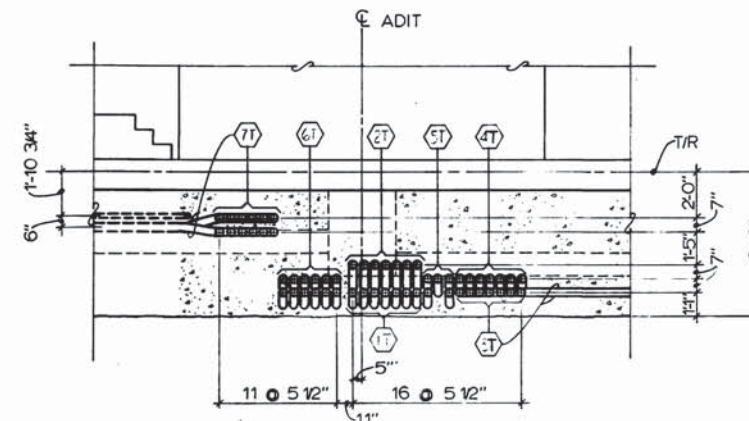
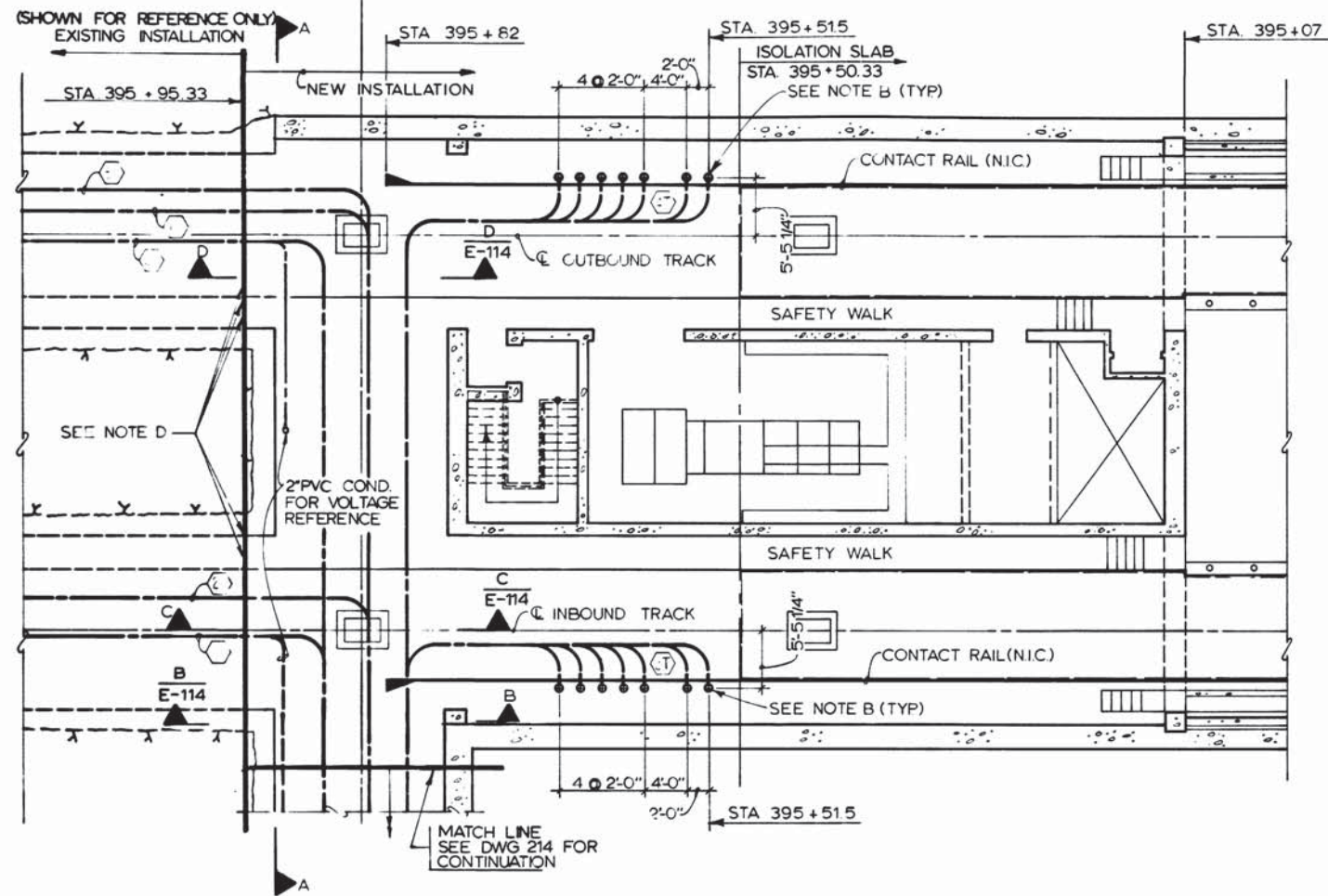
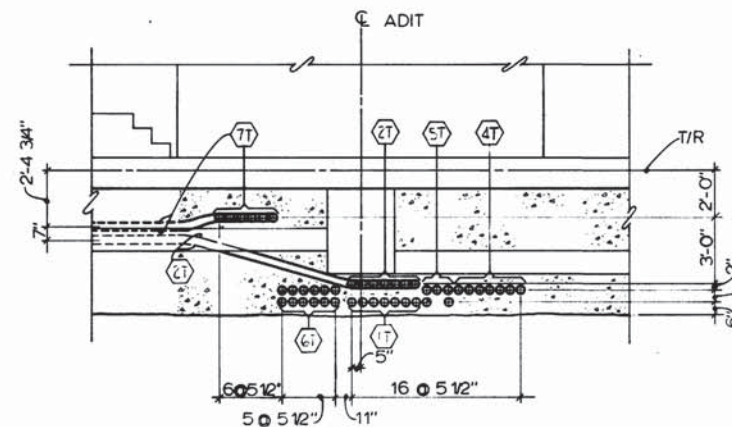


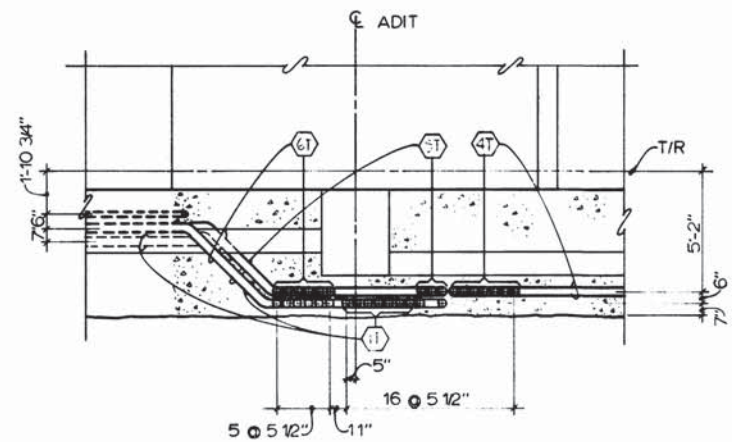
ADIT BETHESDA NORTH VENT SHAFT
STA 395 + 84.33



SECTION B-B
SCALE: 1/4"=1'-0" (E-114)



SECTION C-C
SCALE: 1/4"=1'-0" (E-114)

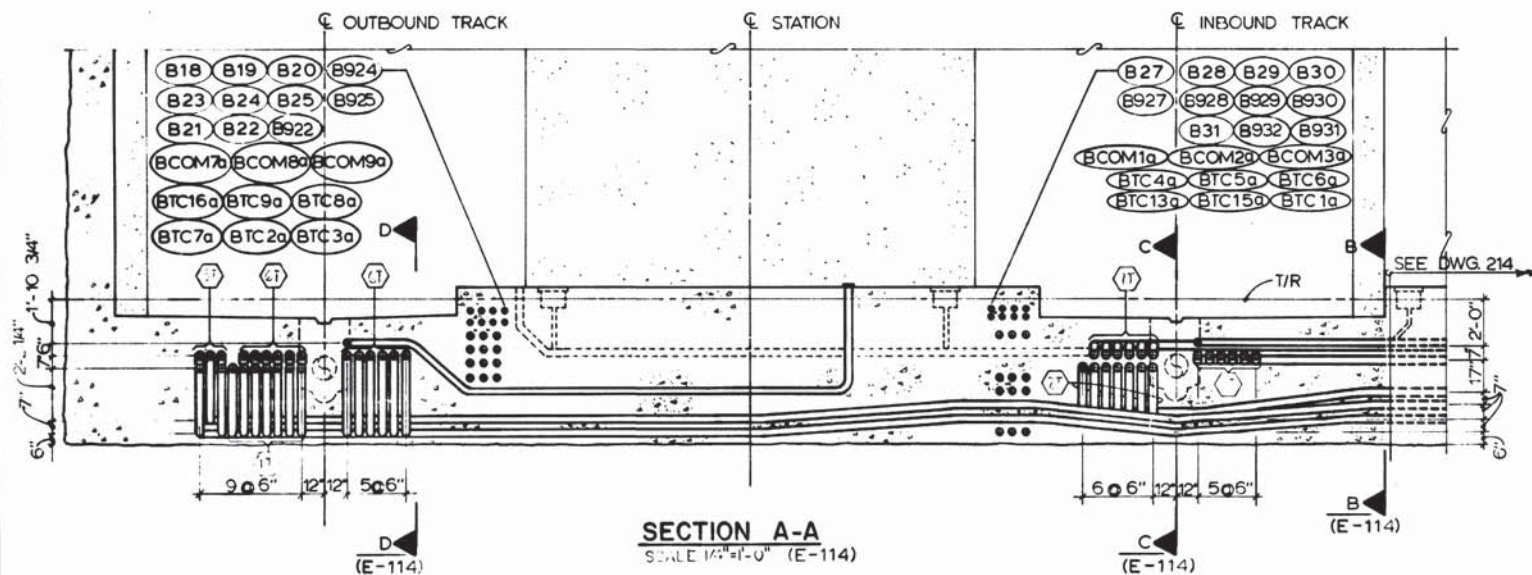


SECTION D-D
SCALE: 1/4"=1'-0" (E-114)

- 1T DP1 DP2 DP3 DP4 DP5 DP6 DP7
- 2T DP8 DP9 DP10 DP11 DP12 DP13 DP14
- 3T DP15 DP16 DP17 DP18 DP19 DP20 DP21
- 4T DP22 DP23 DP24 DP25 DP26 DP27 DP28
- 5T DP29 DP30 DP31 DP32 DP33
- 6T DN1 DN2 DN3 DN4 DN5 DN6
DN7 DN8 DN9 DN10 DN11 DN12
- 7T DN13 DN14 DN15 DN16 DN17 DN18
DN19 DN20 DN21 DN22 DN23 DN24

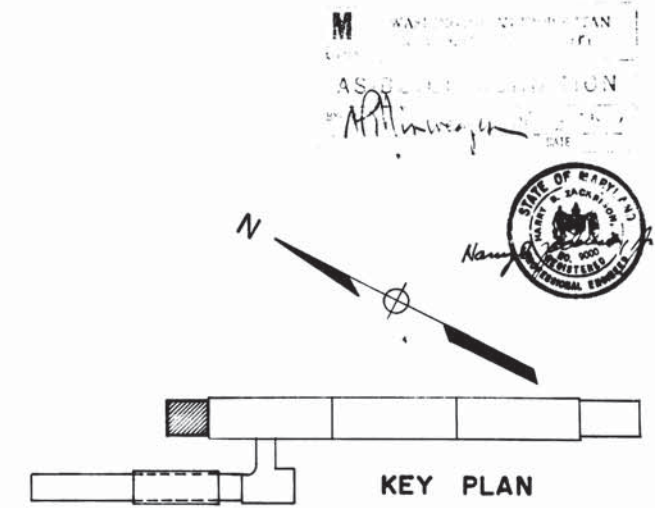
NOTES

- A. SEE DWG. E-2 FOR SYMBOLS ABBREVIATION AND GENERAL NOTES.
- B. FOR TERMINATION OF POSITIVE TRACTION POWER CONDUITS IN ISOLATING SLAB SECTION SEE DET.1A ON DWG. E-45
- D. CONNECT CONDUITS TO EXISTING COUPLINGS



SECTION A-A
SCALE: 1/4"=1'-0" (E-114)

(E-114)



DESIGNED	P.S. CHU	2-3-73
DATE		
DRAWN	ELENA ROCHA	11-3-75
DATE		
CHECKED	P.S. CHU	3-25-77
DATE		
APPROVED	H.B. ZACKRISON	3-25-77
DATE		

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
E-3	N & S ANCL. SPACES - MEZZ. LEVEL	07/08/77	H.Z.



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS
SECTION DESIGNER

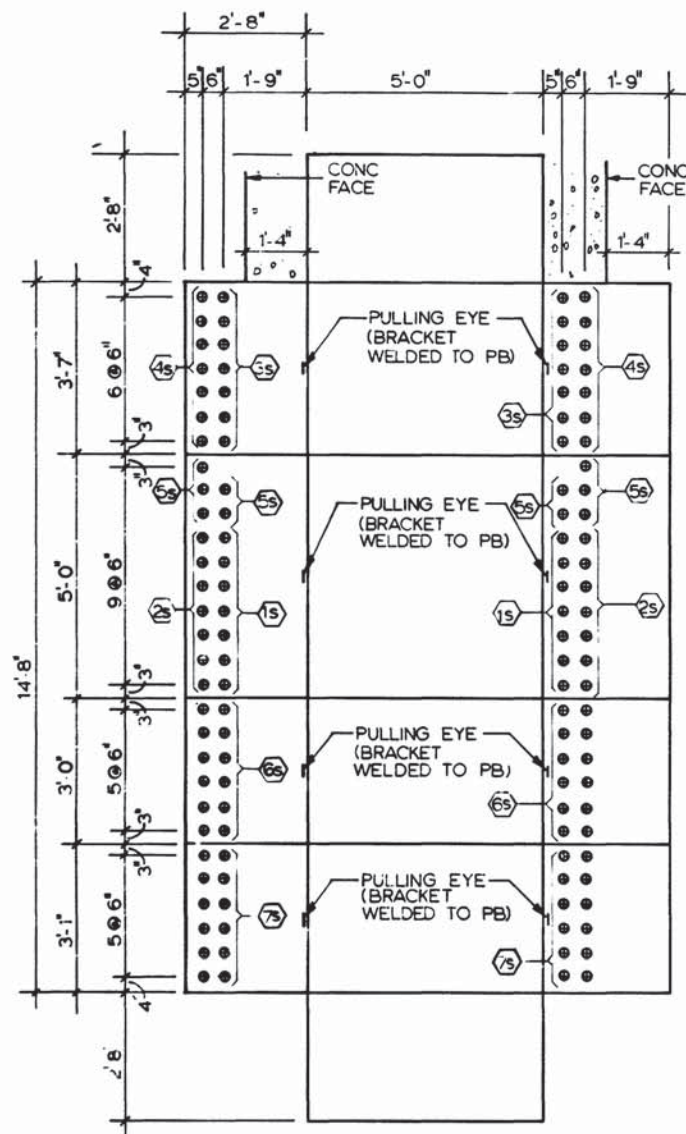
DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

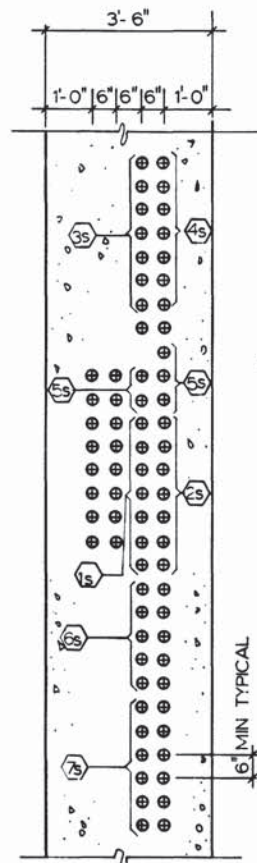
SUBMITTED *Ken Chatwin* DATE 6/12/77 APPROVED *Robert...*

**ROCKVILLE ROUTE
BETHESDA STATION
TRACTION POWER CONDUIT- TRACK LEVEL PLAN**

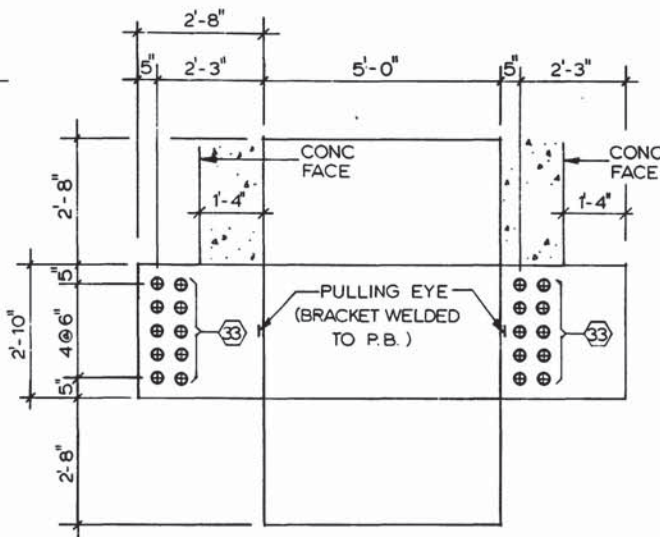
SCALE: 1/8"=1'-0" 1 2 3 4 5 6 8 10
DRAWING NO. A11b-E-114 M276-243



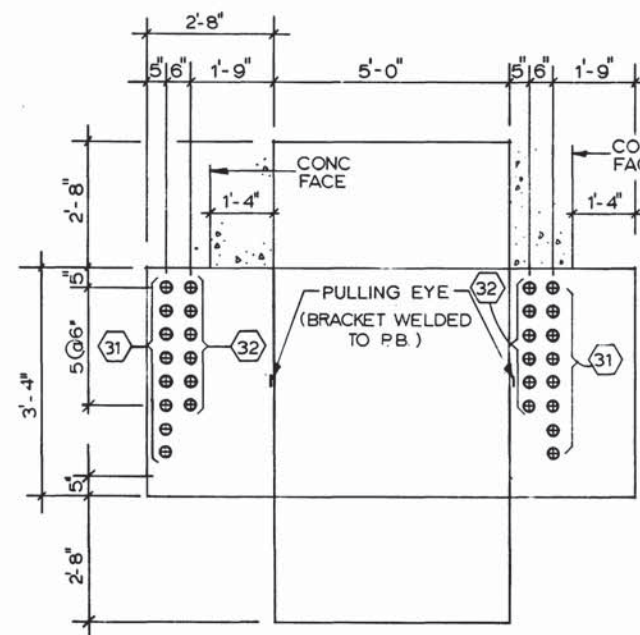
DETAIL 5 (E-14)
PULLBOX - EXPLODED VIEW



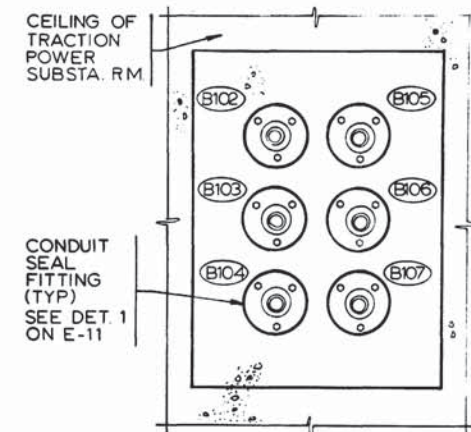
SECTION A-A
(E-14)



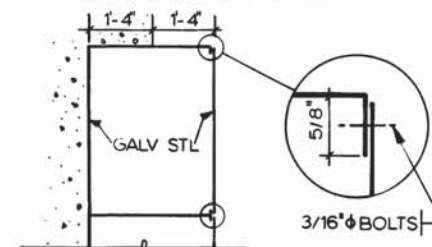
DETAIL 6 (E-14)
PULLBOX - EXPLODED VIEW



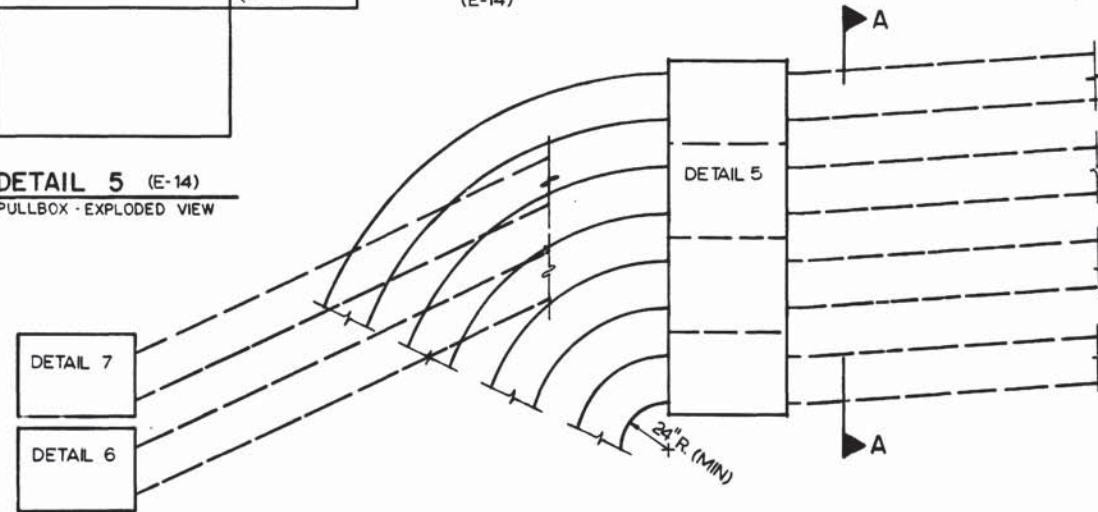
DETAIL 7 (E-14)
PULLBOX - EXPLODED VIEW



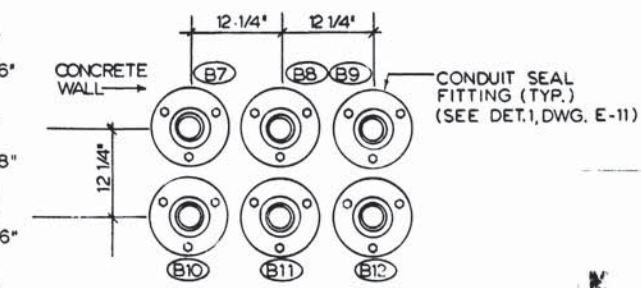
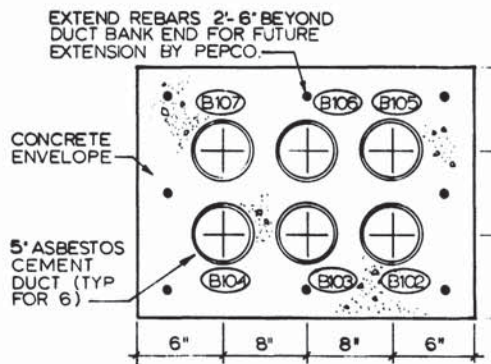
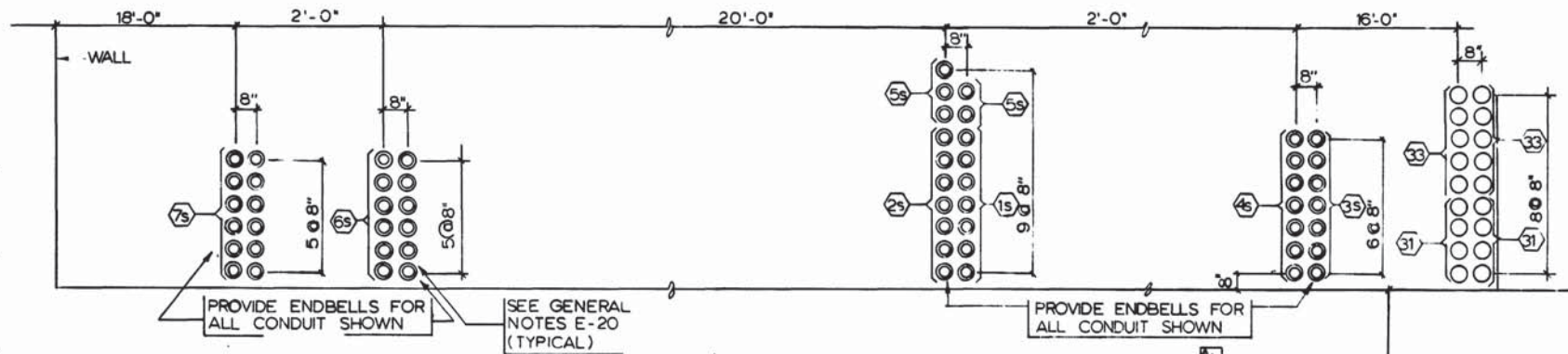
SECTION G-G
SCALE: 1-1/2" = 1'-0" (E-13)



DETAIL 8 (E-14)
TYP PULLBOX SECTION



ELEVATION A (E-13)
(DEVELOPED) NOT TO SCALE



SECTION B-B
NOT TO SCALE (E-13)

SECTION C-C
SCALE: 1-1/2" = 1'-0" (E-13)

SECTION L-L
NOT TO SCALE (E-13)

- 31 B111a B112a B115 B116 B126a B127a B128a B129a
- 32 B50 B51 B52 B70 B53 B291
- 33 BCOM134 BCOM144 BCOM64a BCOM146 BCOM147 BCOM85 BCOM86m BCOM161 BCOM162 BCOM163

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1		7-15-76					
2		7-16-76					
3		3-25-77					
4		3-25-77					



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHews • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS
SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *Len Chatter* DATE 6/12/77

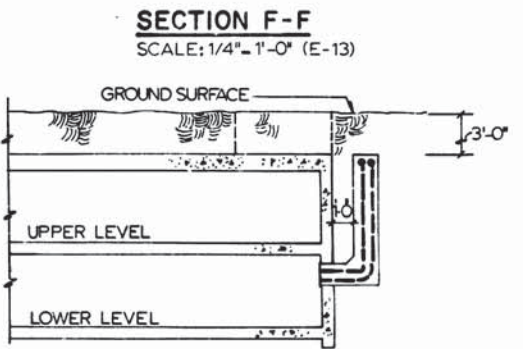
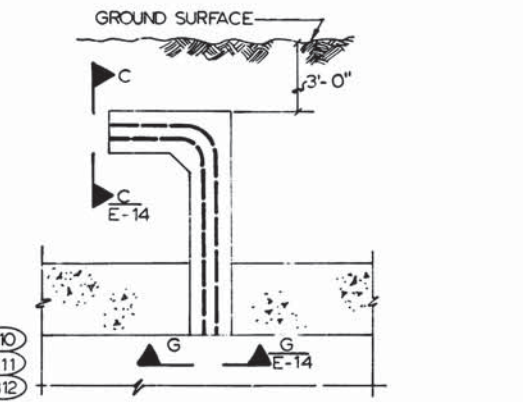
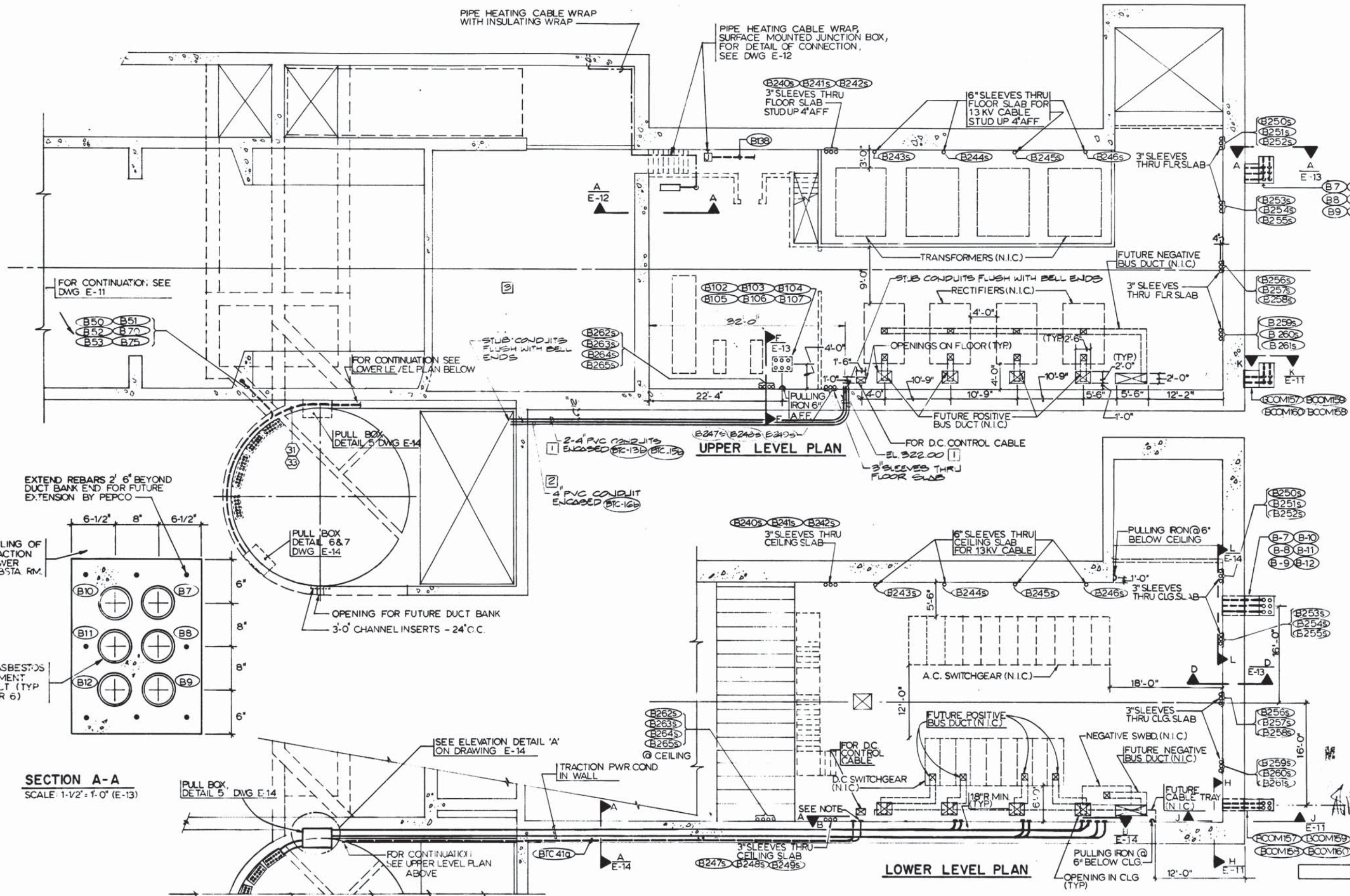
**ROCKVILLE ROUTE
BETHESDA STATION
TRACTION PWR S.S. & CHILLER PLANT - DETAILS**

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

DRAWING NO. **A11b-E-14**

PROJECT NO. **M276-242**





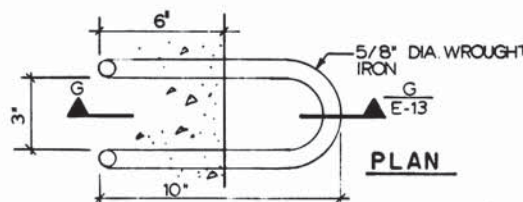
SECTION F-F
SCALE: 1/4" = 1'-0" (E-13)

SECTION D-D
NO SCALE (E-13)

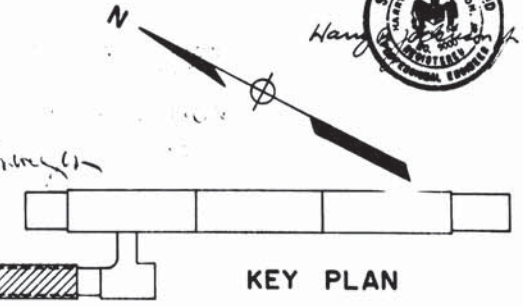
NOTES

A. TERMINATE WITH COUPLER FLUSH WITH CONCRETE AND CAPPED.

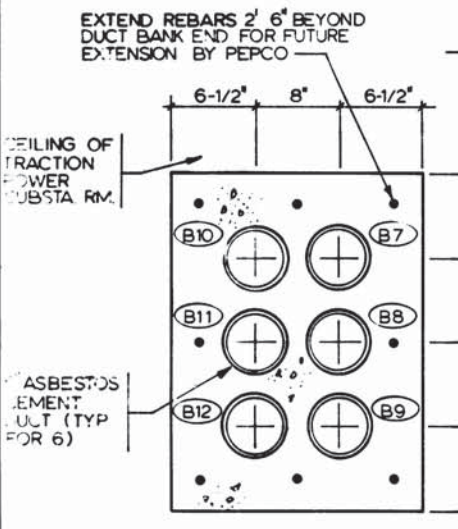
B. SEE GENERAL NOTES DWG E-120.



PULLING IRON DETAIL
NO SCALE (E-13)



KEY PLAN



SECTION A-A
SCALE: 1-1/2" = 1'-0" (E-13)

DESIGNED P.S. CHU		7-15-76 DATE	
DRAWN UH/MWG/E.ROCHA		7-16-76 DATE	
CHECKED P.S. CHU		3-25-77 DATE	
APPROVED H.B. ZACKRISON		3-25-77 DATE	

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
S-129	ENT ESCAL RETAIN WALL & VENT SHAFT	01/08/77	H.Z.
A-68	SUBSTA CHILLER PLANT	01-7-77	MD
M-31	SUBSTA CHILLER PLANT PLAN & SECTION		
E-14	DETAILS		



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MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS
SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

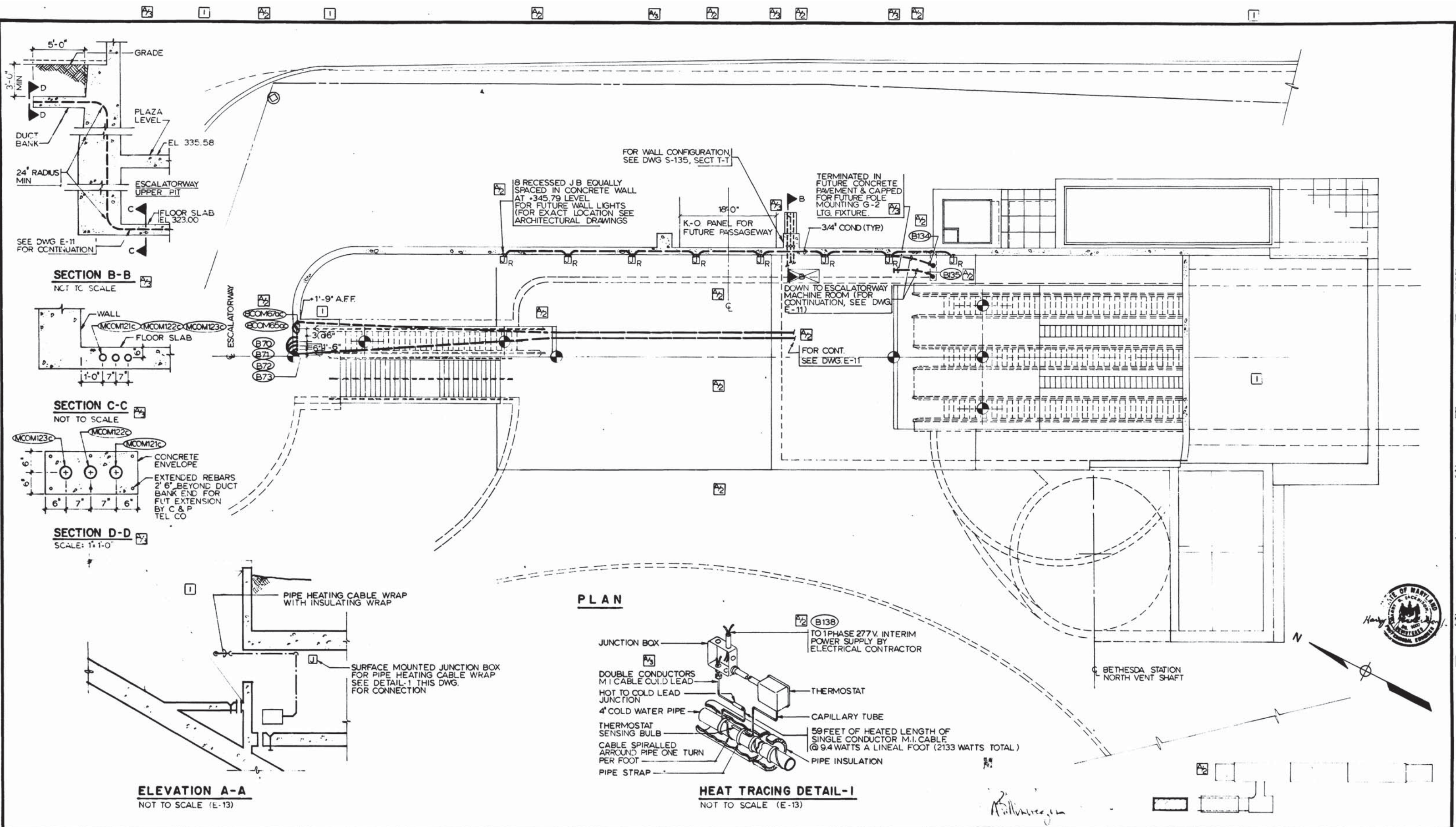
SUBMITTED *Ken Chatham* DATE 5/12/77

APPROVED *Robert J. Weese*

**ROCKVILLE ROUTE
BETHESDA STATION
TRACTION POWER SUBSTATION & CHILLER PLANT**

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

DRAWING NO. Allb-E-13 M276-241



DESIGNED P. S. CHU 12-1-74
 DRAWN O. BARMINE 3-21-77
 CHECKED P. S. CHU 3-25-77
 APPROVED H. R. ZACKRISON 3-25-77

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
S-129	ENT ESCAL RETAINING WALL & VENT SHAFT	7-8-77	H. Z.
A-30	ENT PLAN	10-12-77	H. Z.
A-68	SUBSTATION CHILLER PLANT		
M-21	FUNCTIONAL ENT PLAN & SECTION		
M-32	ENT PLAN		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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 SECTION DESIGNER

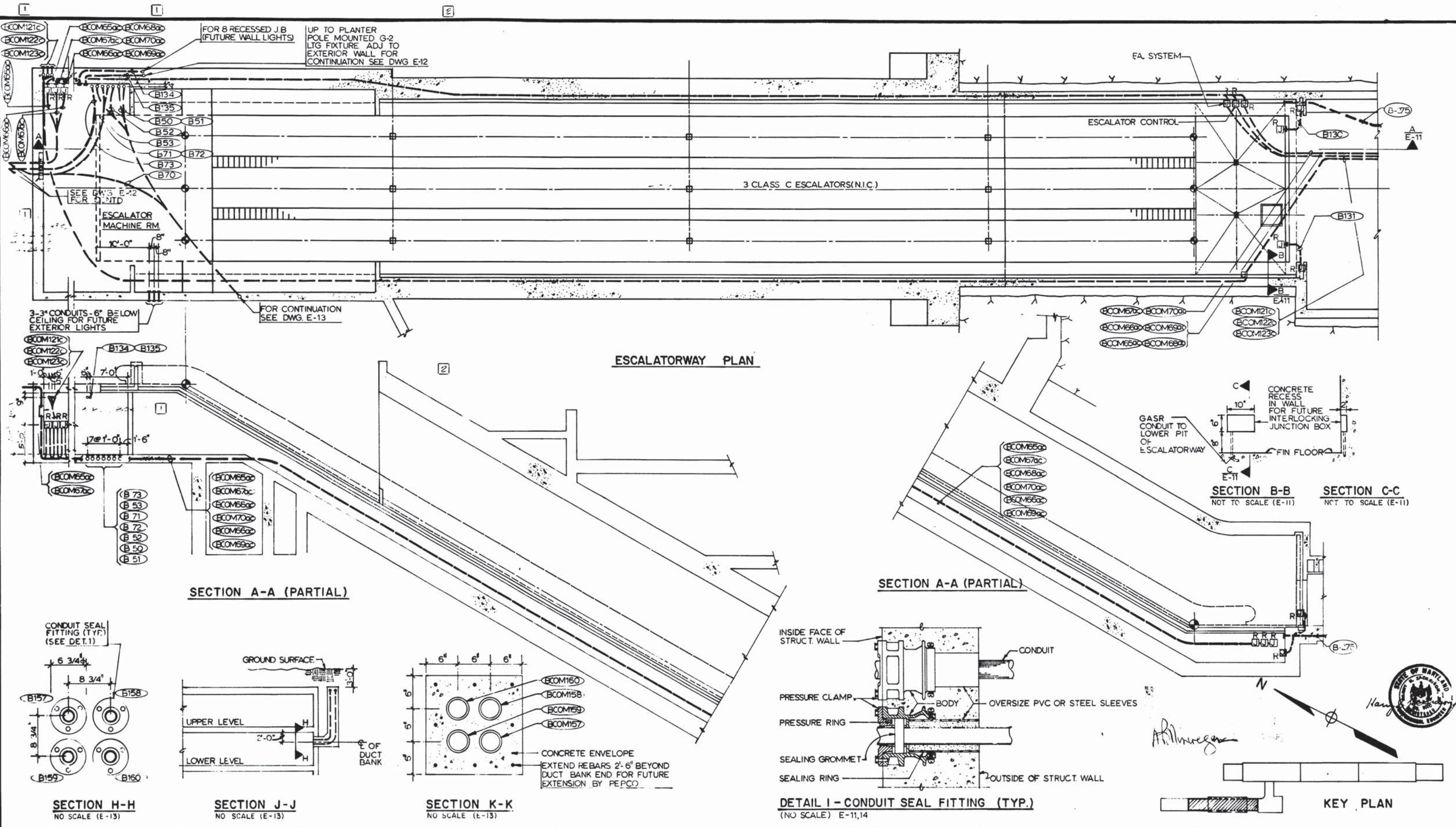
DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE *5/18/77* APPROVED *[Signature]*

**ROCKVILLE ROUTE
 BETHESDA STATION
 ENTRANCE PLAN**

SCALE 1/8" = 1'-0" 1 2 4 6 8 10
 DRAWING NO. A11b-E-12 M276-240



DESIGNED	P. S. CHU	12-1-74
DRAWN	E. ROCHA	11-1-73
CHECKED	P. S. CHU	3-25-77
APPROVED	H. B. ZACKRISCH	3-25-77

NUMBER	DESCRIPTION	DATE	BY
5-138	ESCAL. SECT.	7-8-77	H.Z.
A-21	FUNC. ENT. PLAN & SECT.		
A-32	ESCAL. SECT.		
M-32	ENT. SECT.		

NUMBER	DESCRIPTION	DATE	BY
5-138	ESCAL. SECT.	7-8-77	H.Z.
A-21	FUNC. ENT. PLAN & SECT.		
A-32	ESCAL. SECT.		
M-32	ENT. SECT.		



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SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

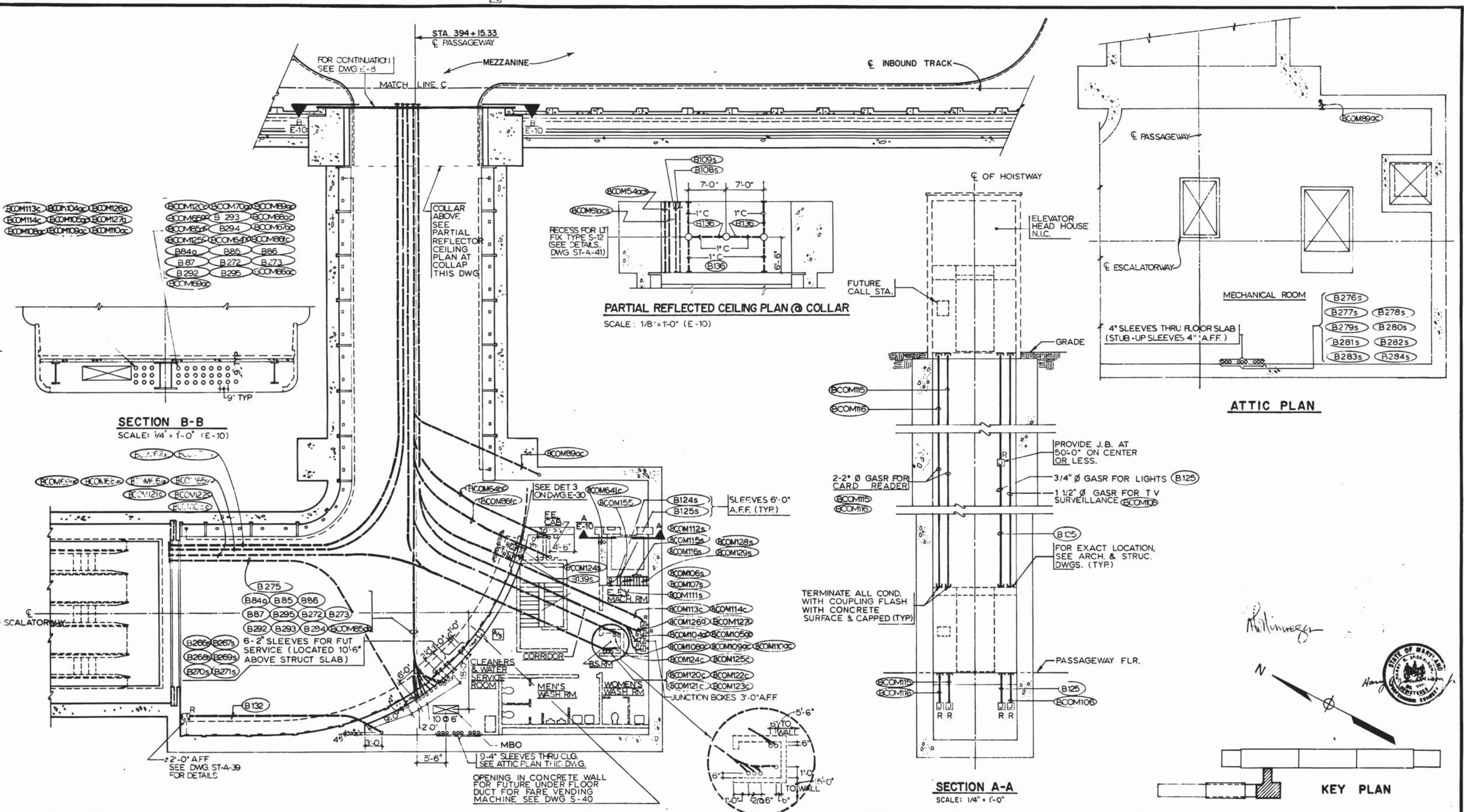
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

DATE 5/12/77

ROCKVILLE ROUTE
BETHESDA STATION
ESCALATORWAY PLAN AND SECTION

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

DRAWING NO. **A11b-E-11** M276-239

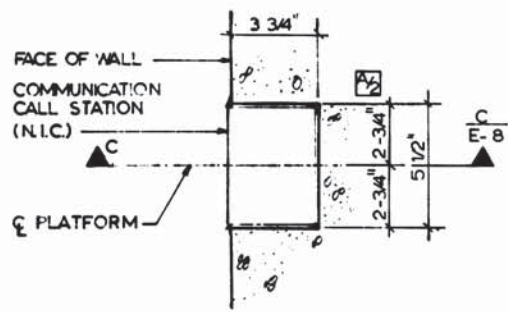
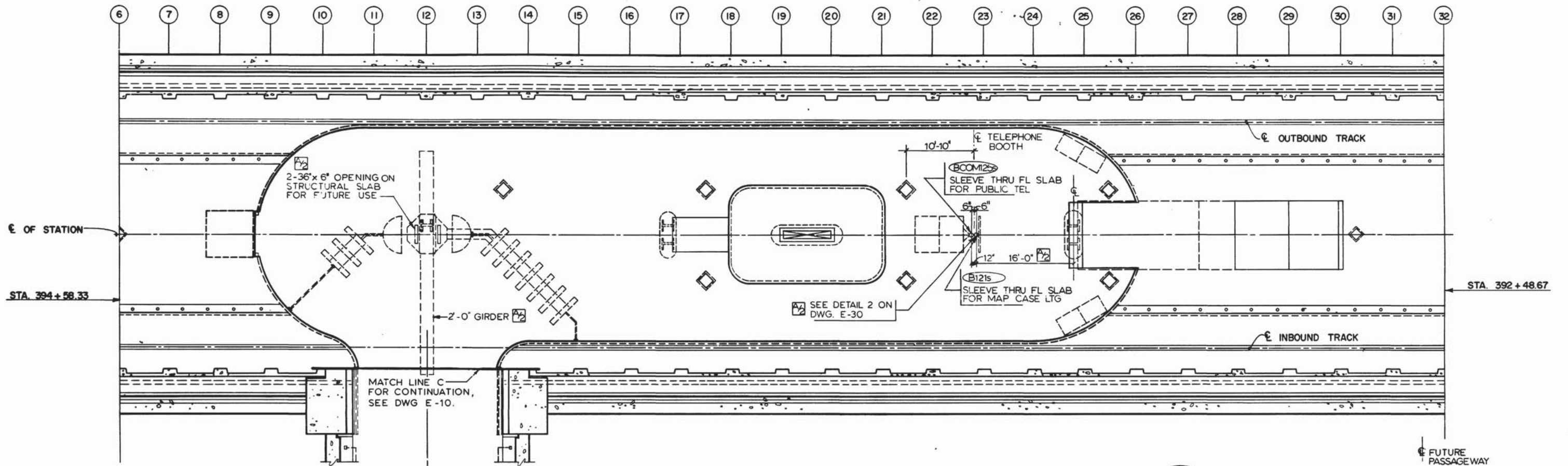


DESIGNED		DATE		NUMBER		DESCRIPTION		DATE		BY		DESCRIPTION	
P.S. CHU		11-25-76		S-137		ESCAL. PLAN & DET.		7-8-77		H.Z.		GENERAL REVISION	
E. ROCHA		10-11-75		S-40		PASS. TO ESCAL.		10-12-77		H.Z.		PROVIDED BLOCKOUT FOR FARE VENDING MACHINE	
P.S. CHU		3-25-77		A-29		PASS. - ANCIL. PLAN							
M.B. ZACKRISON		3-25-77		M-33		ENT. ANCIL. SPACES PLAN & SECT.							
H.B. ZACKRISON		3-25-77		S-43		PASS. ROOF SLAB PLAN & DETAIL							

DESIGNED		DATE		NUMBER		DESCRIPTION		DATE		BY		DESCRIPTION	
P.S. CHU		11-25-76		S-137		ESCAL. PLAN & DET.		7-8-77		H.Z.		GENERAL REVISION	
E. ROCHA		10-11-75		S-40		PASS. TO ESCAL.		10-12-77		H.Z.		PROVIDED BLOCKOUT FOR FARE VENDING MACHINE	
P.S. CHU		3-25-77		A-29		PASS. - ANCIL. PLAN							
M.B. ZACKRISON		3-25-77		M-33		ENT. ANCIL. SPACES PLAN & SECT.							
H.B. ZACKRISON		3-25-77		S-43		PASS. ROOF SLAB PLAN & DETAIL							

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY MATHEWS • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER		DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT	
SUBMITTED <i>Wm. Mathews</i> DATE 5/12/77		APPROVED <i>Harry Weese</i>	

ROCKVILLE ROUTE BETHESDA STATION PASSAGEWAY - ANCILLARY PLAN		SCALE 1/8" = 1'-0" 0 2 4 6 8 10 AND AS NOTED	DRAWING NO. A11b-E-10	M276-238
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DETAIL 1
SCALE: 3/8" = 1'-0"

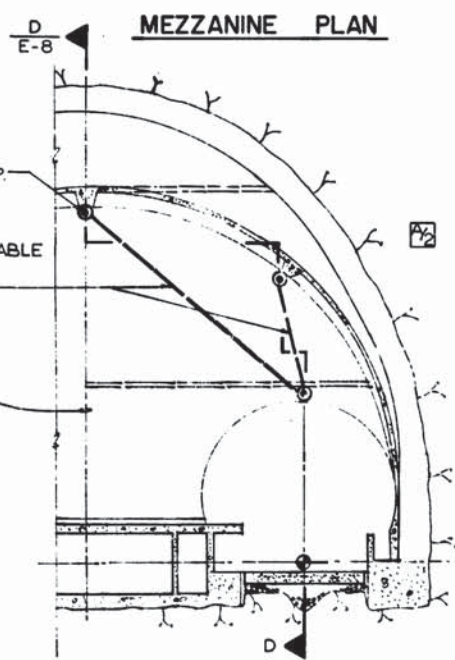
COMMUNICATION CALL STATION COND (N.I.C.) FOR EXACT LOCATION SEE DWG A-23

FACE OF WALL
3/4" GAL STEEL RIGID CONDUIT TO MACHINE ROOM
FIN FL (N.I.C.)
TOP OF STRUCT SLAB

SECTION C-C
SCALE: 3/8" = 1'-0" (F-3)

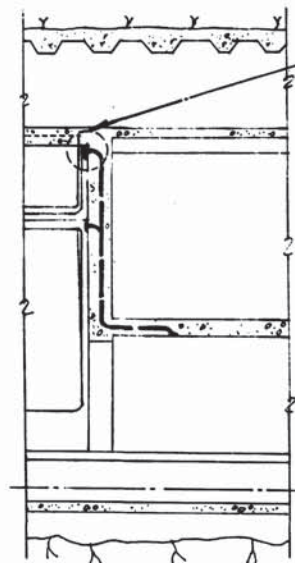
2" PVC ANTENNA CABLE CONDUIT INSIDE END WALL

E VAULT



DETAIL 2
(NO SCALE) E-3

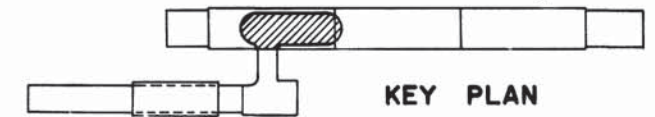
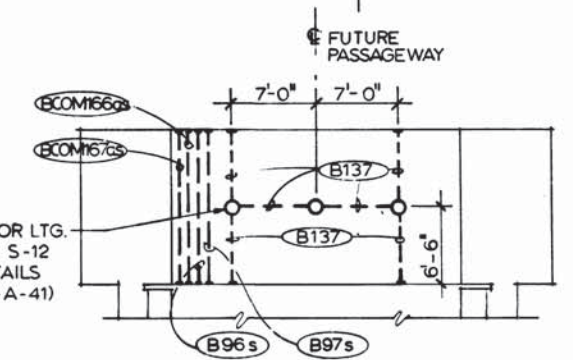
2 ANTENNA CONDUIT INSTALLATION (TYPICAL)



SECTION D-D
(NO SCALE) E-3

RECESS FOR LTG. FIX TYPE S-12 (SEE DETAILS DWG. ST-A-41)

PARTIAL REFLECTED CEILING PLAN @ COLLAR FOR FUTURE MEZZANINE
SCALE: 1/8" = 1'-0" (E-7)



KEY PLAN

1 COMMUNICATION CALL STATION

DESIGNED		DATE		NUMBER		DESCRIPTION		DATE		BY		DESCRIPTION	
P. S. CHU	11-25-74	11-25-74	11-25-74	5-152	MEZZ. FRAMING PLAN & DET.	7-8-77	H. Z.	A/2	GENERAL REVISION				
E. ROCHA	11-28-74	11-28-74	11-28-74	A-28	MEZZ. PLAN & SECT.								
P. S. CHU	3-25-77	3-25-77	3-25-77	M-34	MEZZ. PLAN								
H. B. ZACKRISON	3-25-77	3-25-77	3-25-77										



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SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: *Conn. Just* DATE: 5/12/77

APPROVED: *Robert...*

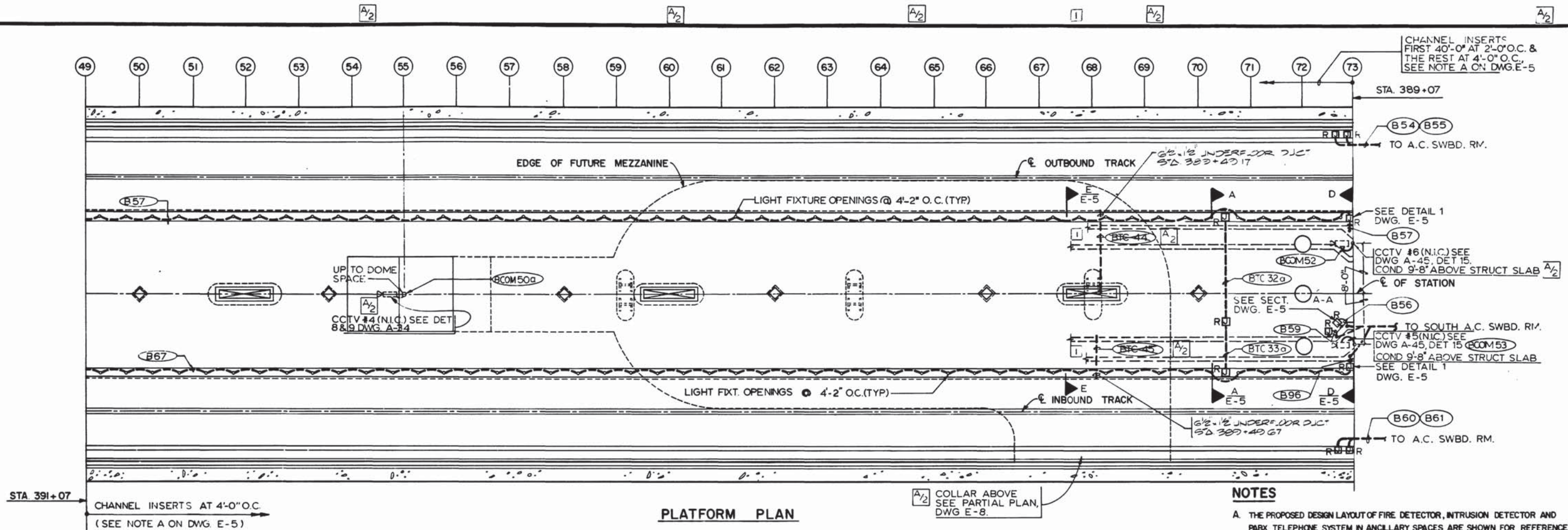
**ROCKVILLE ROUTE
BETHESDA STATION**

MEZZANINE PLAN - STA 394+58.33 TO STA 392+48.67

SCALE: 1/8" = 1'-0" AND AS NOTED

DRAWING NO. **A11b-E-8**

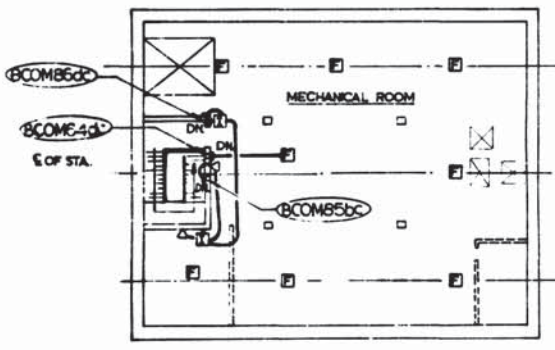
M276-236



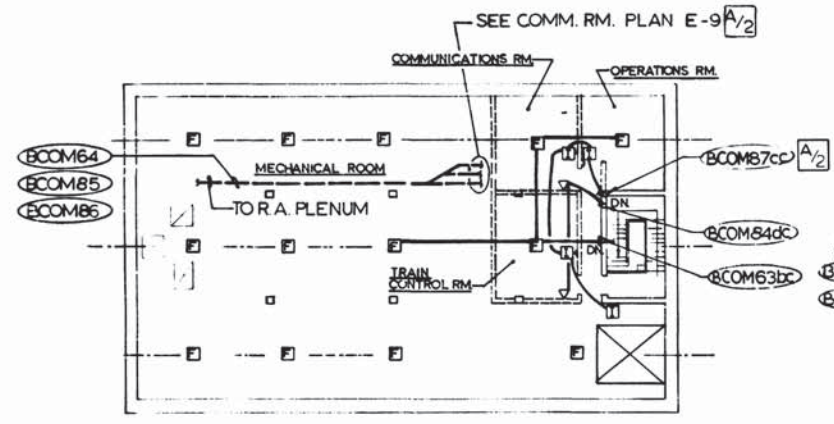
PLATFORM PLAN

NOTES

- A. THE PROPOSED DESIGN LAYOUT OF FIRE DETECTOR, INTRUSION DETECTOR AND PABX TELEPHONE SYSTEM IN ANCILLARY SPACES ARE SHOWN FOR REFERENCE ONLY. THE FURNISHED INSTALLATION AND CONNECTIONS OF THE SYSTEMS ARE NOT IN CONTRACT UNLESS OTHERWISE NOTED. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE NECESSARY CONDUITS AND SLEEVES WHICH ARE ENCASED IN CONCRETE AS DESIGNATED ON THE PLANS AND CONDUIT SCHEDULES.
- B. TERMINATE CONDUITS WITH COUPLINGS FLUSH TO SURFACE OF CONCRETE WALL OR SLAB AND PLUG. + 9'-0" A.F.F. OR AS NOTED.



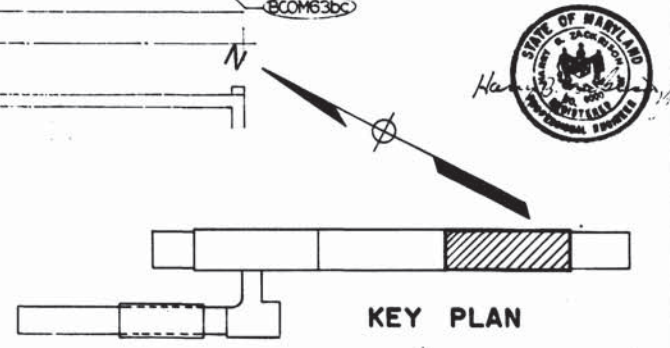
PLAN - MEZZANINE LEVEL
(SEE NOTES A & B THIS DWG.)



PLAN - PLATFORM LEVEL
(SEE NOTES A & B THIS DWG.)

PROPOSED DESIGN FOR FIRE & INTRUSION DETECTOR AND PABX-TELEPHONE SYS. - NORTH & SOUTH ANCIL. SPACES
SCALE: 1/16" = 1'-0" (E-3 & E-9)

- DENOTES FIRE DETECTOR OUTLET
- ◻ PABX TELEPHONE SYSTEM
- ◻ INTRUSION DETECTOR OUTLET



KEY PLAN

DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	BY	REVISIONS
P. S. CHU	8-12-74	5-147	PLATF. PLAN	7-8-77	H.Z.	GENERAL REVISION
E. ROCHA	9-4-74	A-26	PLATF. PLAN & SECT.			
P. S. CHU	3-22-77	M-40	PLATF. PLAN			
H. B. ZACKRISON	3-25-77					



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

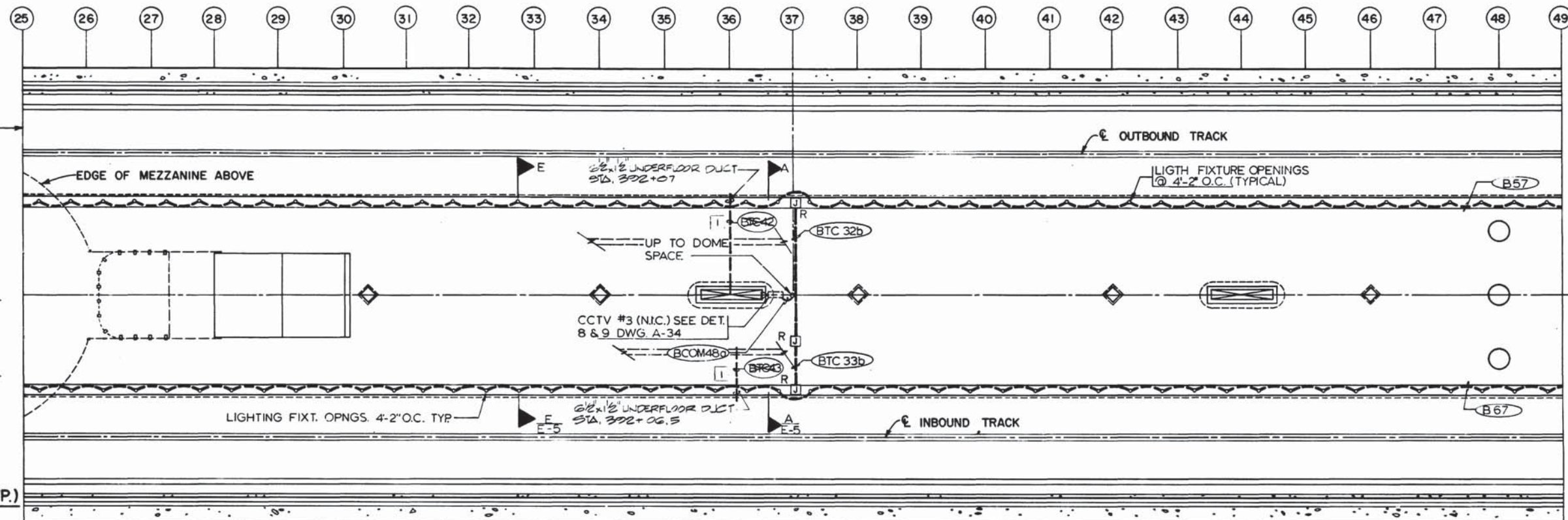
SUBMITTED: [Signature] DATE: 5/12/77 APPROVED: [Signature]

**ROCKVILLE ROUTE
BETHESDA STATION**

PLATFORM PLAN - STA 391+07 TO STA 389+07

SCALE: 1/8" = 1'-0" AND AS NOTED

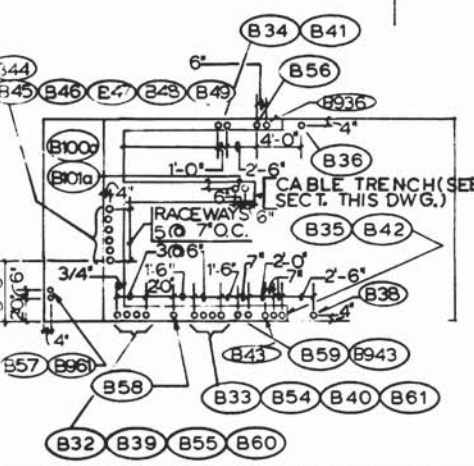
DRAWING NO. A11b-E-7 M276-235



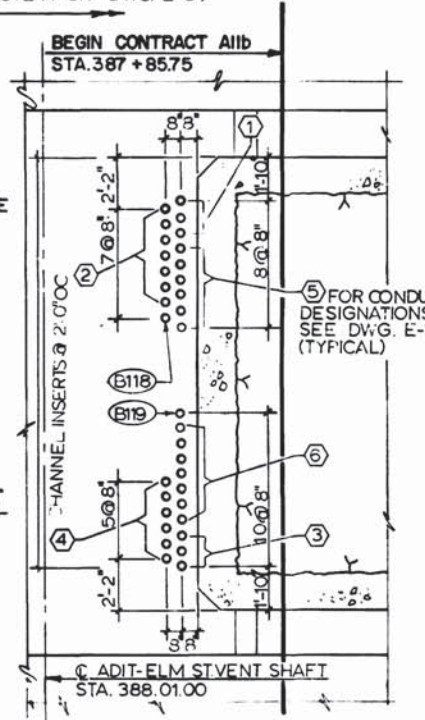
CABLE TRENCH SECT. (TYP.)
SCALE: 1/2" = 1'-0" (E-3)

CHANNEL INSERTS AT 4'-0" O.C.
(SEE NOTE A ON DWG E-5)

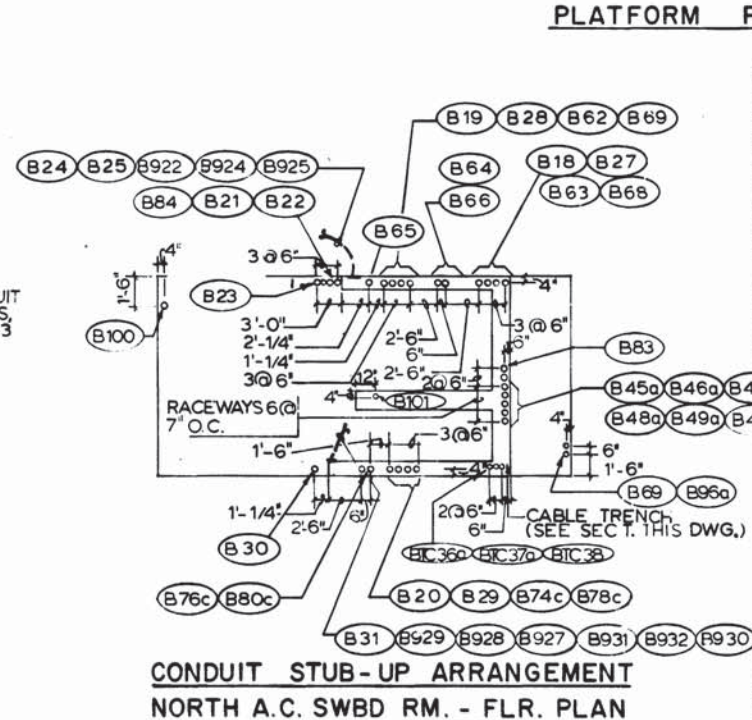
CHANNEL INSERTS AT 4'-0" O.C.
SEE NOTE A ON DWG E-5



CONDUIT STUB-UP ARRANGEMENT
SOUTH A.C. SWBD RM. - FLR. PLAN
(NOT TO SCALE)
NOTE:
DETAIL TAKEN FROM A.C. SWBD RM. ON DWG. E-3

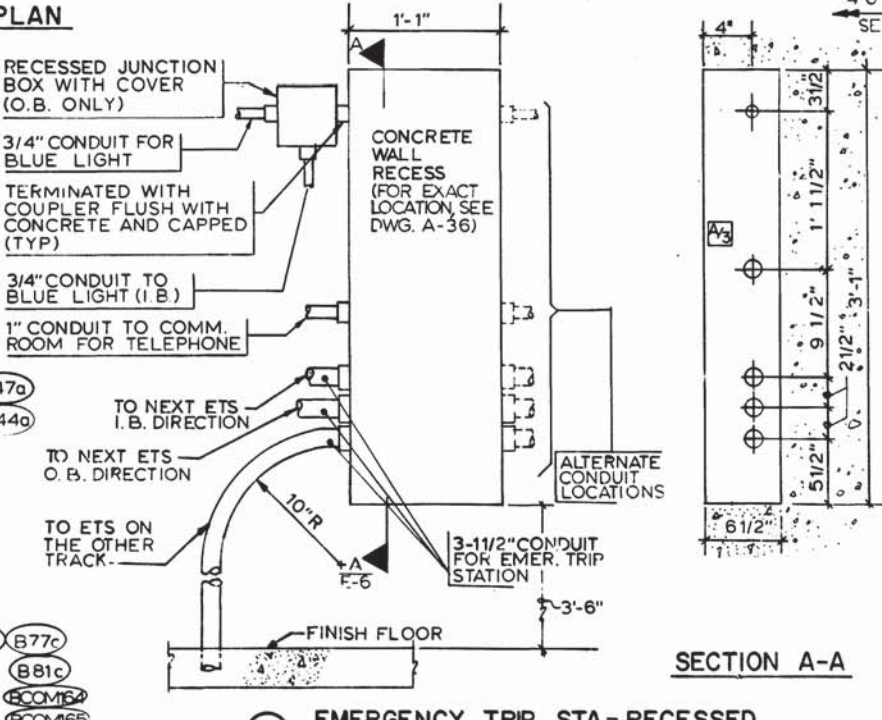


PARTIAL PLAN - STA. 388+01.00
SCALE: 1/4" = 1'-0" (E-3)

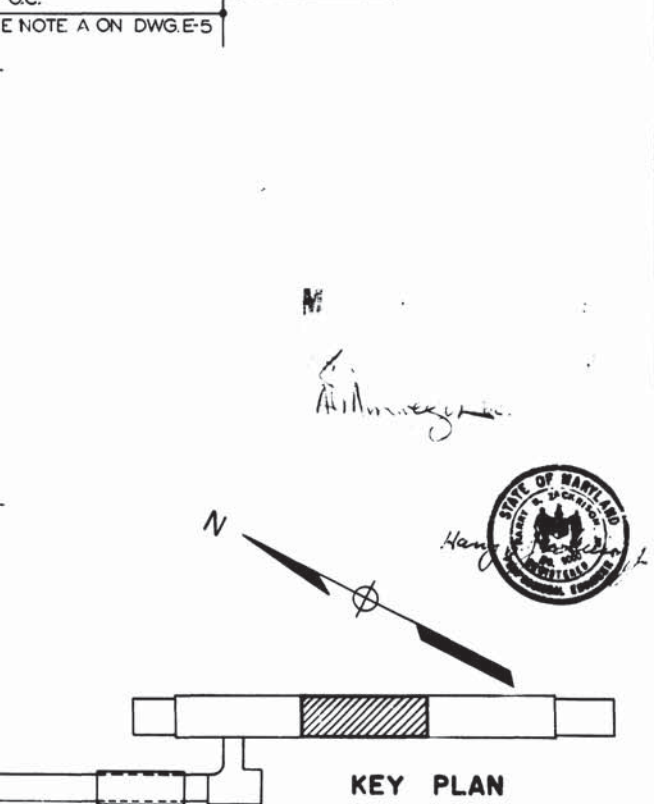


CONDUIT STUB-UP ARRANGEMENT
NORTH A.C. SWBD RM. - FLR. PLAN
(NOT TO SCALE)
NOTE:
DETAIL TAKEN FROM A.C. SWBD RM. ON DWG. E-3

PLATFORM PLAN



SECTION A-A
EMERGENCY TRIP STA. - RECESSED CONDUIT INSTALLATION DETAIL
SCALE: NONE (E-3)



KEY PLAN

DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	BY	REVISIONS
P. S. CHU	8-12-74	S-146	PLATF. PLAN	7-8-77	H.Z.	GENERAL REVISION
E. ROCHA	9-11-75	A-25	PLATF. PLAN & SECT.	10-12-77	A2	CHANGED DIMENSIONS FOR EMBEDDED CONDUITS TO E.T.S.
P. S. CHU	3-25-77	M-39	PLATF. PLAN			REVISED PER T.O.S.
H. B. ZACKRISON	3-25-77	A-34	VAULT OPENINGS & DETAILS			



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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ENGINEERS AND ARCHITECTS
SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

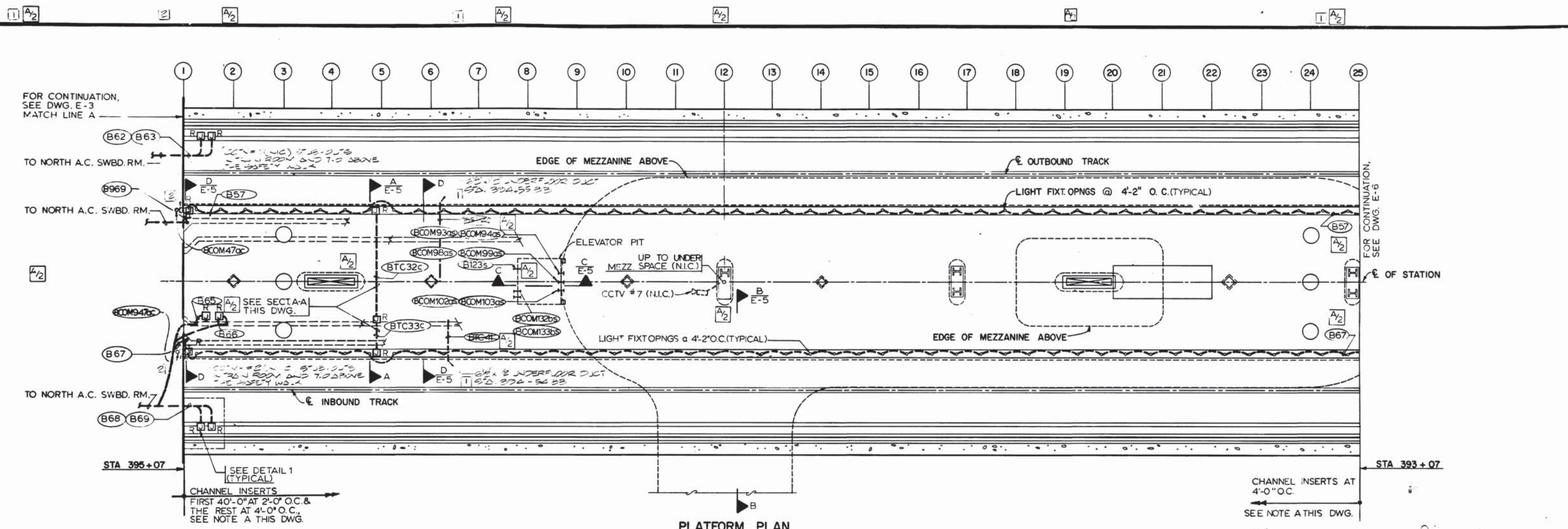
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 5/12/77 APPROVED *[Signature]*

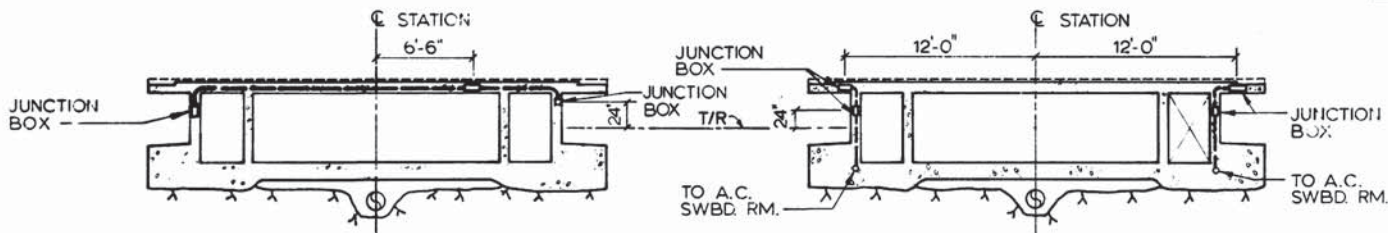
ROCKVILLE ROUTE
BETHESDA STATION
PLATFORM PLAN - STA 393+07 TO STA 391+07

SCALE: 1/8" = 1'-0" AND AS NOTED

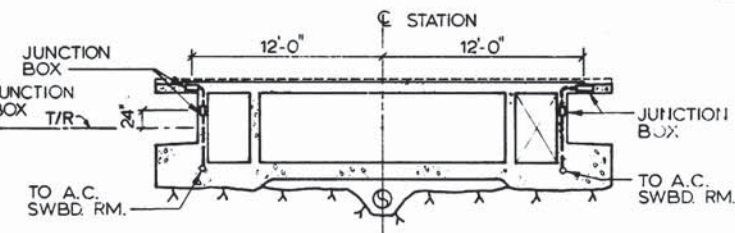
DRAWING NO. **A11b-E-6** M276-234



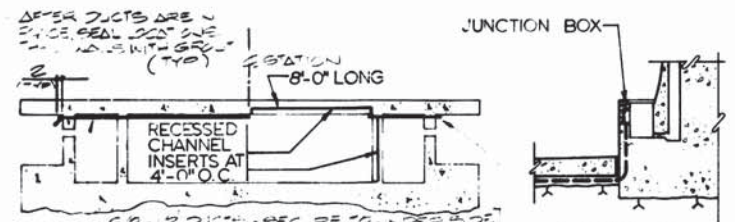
PLATFORM PLAN



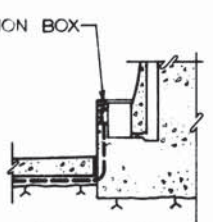
SECTION A-A (TYP)
SCALE: 3/16"=1'-0"
(E-5, -6, -7)



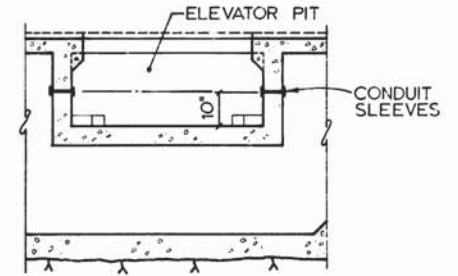
SECTION D-D (TYP)
SCALE: 3/16"=1'-0"
(E-5 & -7)



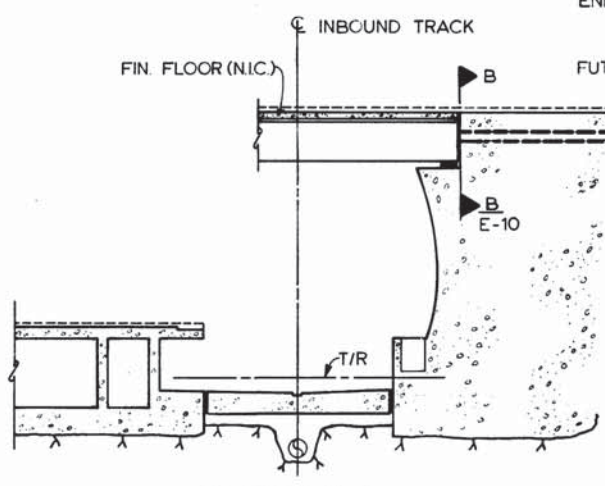
SECTION E-E (TYP)
SCALE: 3/16"=1'-0"
(E-5)



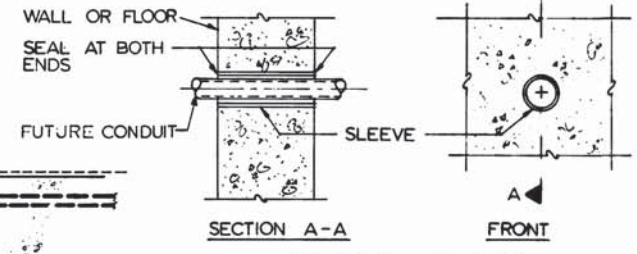
DETAIL 1
SCALE: 3/16"=1'-0"



SECTION C-C
SCALE: 1/4"=1'-0"
(E-5)



SECTION B-B
SCALE: 3/16"=1'-0"



SLEEVE DETAIL
NOT TO SCALE

FUTURE CONDUIT SIZE	SLEEVES		
	SIZE AS DESIGNATED	NOMINAL I.D. ①	COMMERCIAL COND. SIZE USED
1"	1"	2.315"	2-1/2"
1-1/4"	1-1/4"	2.66"	2-1/2"
1-1/2"	1-1/2"	2.90"	3"
2"	2"	3.376"	3-1/2"
2-1/2"	2-1/2"	3.875"	4"
3"	3"	4.50"	5"
3-1/2"	3-1/2"	5.00"	5"
4"	4"	5.50"	6"

① SLEEVE - NOMINAL I.D. = O.D. OF FUTURE CONDUIT + 1/8"

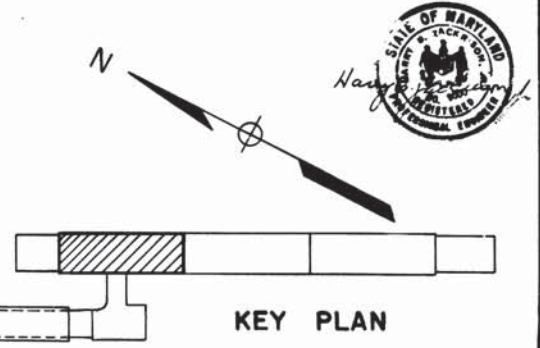
NOTES

A. PROVIDE CHANNEL INSERTS - 4'-0" O.C. AT LOCATIONS AS SHOWN IN SECTION E-E THIS DRAWING.

B. ALL TYP SECT. SEE COND. SCHEDULE FOR EXACT COND. NO.

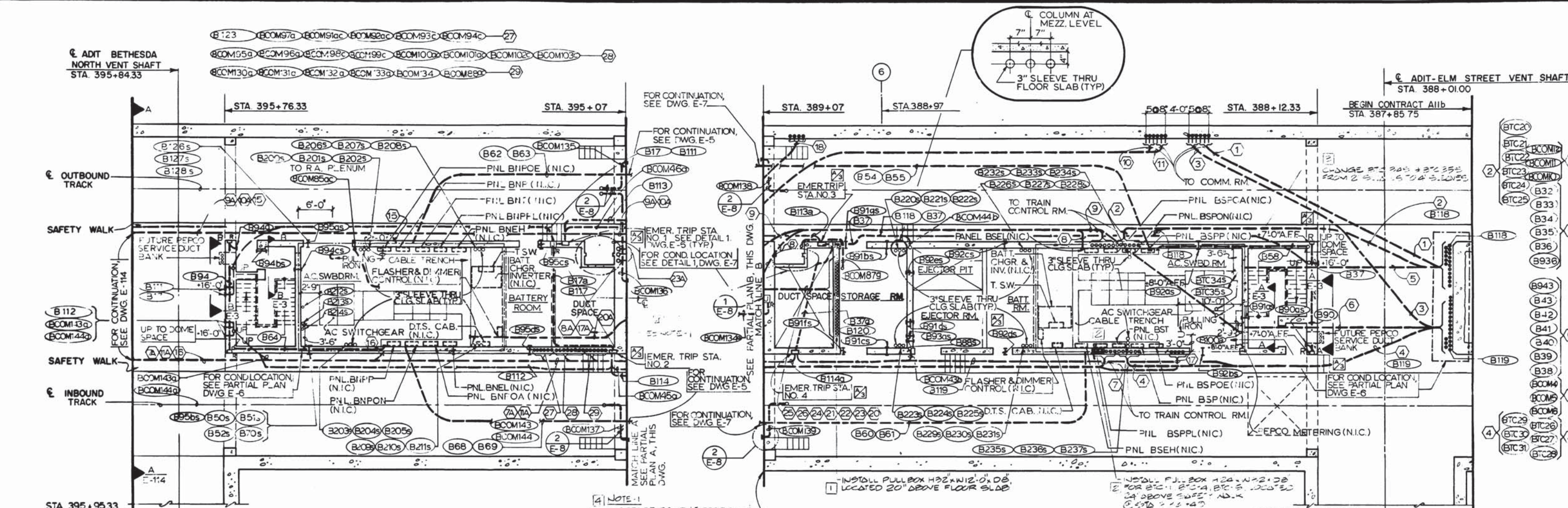
1) ALL DUCTS AT SIX LOCATIONS NEAR STATION (STATION 395+07 TO 393+07) - LOCATIONS AT PLATFORM ENDS TO BE AS CLOSE TO END AS POSSIBLE BUT AVOID MANHOLES ETC.

2) WHERE DUCTS ARE RUN ABOVE VEH. Δ U DUCT, LOCATE BET. EXACT RIBS OF Δ U DUCT.



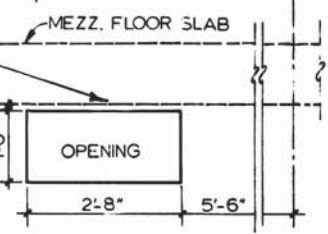
KEY PLAN

DESIGNED P. S. CHU 8-21-78 DATE DRAWN E. ROCHA 9-3-78 DATE CHECKED P. S. CHU 3-25-77 DATE APPROVED H. B. ZACKRISON 3-25-77 DATE	REFERENCE DRAWINGS <table border="1"> <tr> <th>NUMBER</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td>S-145</td> <td>PLATF. PLAN</td> <td>7-8-77</td> <td>H.Z.</td> </tr> <tr> <td>A-24</td> <td>PLATF. PLAN & SECT.</td> <td></td> <td></td> </tr> <tr> <td>M-38</td> <td>PLATF. PLAN</td> <td></td> <td></td> </tr> </table>	NUMBER	DESCRIPTION	DATE	BY	S-145	PLATF. PLAN	7-8-77	H.Z.	A-24	PLATF. PLAN & SECT.			M-38	PLATF. PLAN			REVISIONS <table border="1"> <tr> <th>NUMBER</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td>A₂</td> <td>GENERAL REVISION</td> <td></td> <td></td> </tr> </table>	NUMBER	DESCRIPTION	DATE	BY	A ₂	GENERAL REVISION			ANNUAL REGISTRATION NO. 3066-R STATE OF MARYLAND WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY MATHEWS • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER DE LEUW, CATHAR & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT SUBMITTED [Signature] DATE 5/12/77 APPROVED [Signature]	ROCKVILLE ROUTE BETHESDA STATION PLATFORM PLAN - STA 395+07 TO STA 393+07 SCALE 1/8"=1'-0" AND AS NOTED DRAWING NO. A11b-E-5 M276-233
NUMBER	DESCRIPTION	DATE	BY																									
S-145	PLATF. PLAN	7-8-77	H.Z.																									
A-24	PLATF. PLAN & SECT.																											
M-38	PLATF. PLAN																											
NUMBER	DESCRIPTION	DATE	BY																									
A ₂	GENERAL REVISION																											

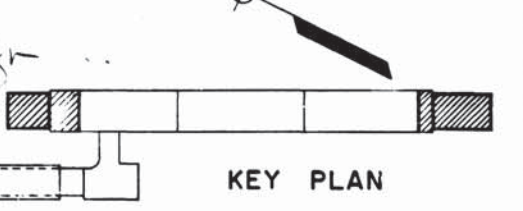
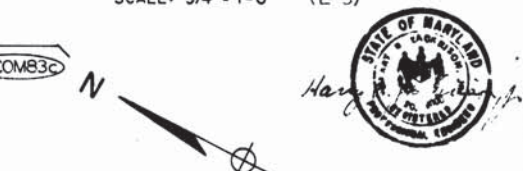


NOTE: 1
 INCREASE COND. LOC. BIC 36 A & B TO 17" FROM 2" TO 11" FROM THE NORTH TO THE SOUTH PLATFORM R.A. TO THE NORTH PLATFORM R.A. TO THE SOUTH PLATFORM R.A.

13'-0" CHANNEL INSERTS TO CEILING FOR FUTURE INCOMING POWER. SEE STRUCT. DWGS.



SECTION A-A & B-B
 SCALE: 3/4" = 1'-0" (E-3)



DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5-140	N SERVICE AREA PLANS & SECT.	7-8-77	H.Z.	GENERAL REVISION	7-8-77	H.Z.	GENERAL REVISION
5-168	S SERVICE AREA PLANS & SECT.	10-12-77	H.Z.	RELOCATED E.T.S., SOUTH AUX.	10-12-77	H.Z.	RELOCATED E.T.S., SOUTH AUX.
A-23	ANCL. SPACES - PLATF. LEVEL			BATTERY DOOR & STAIRS AT ELM. ST. ADIT			BATTERY DOOR & STAIRS AT ELM. ST. ADIT
M-37	N ANCL. SPACES - PLATF. LEVEL						
M-41	S ANCL. SPACES - PLATF. LEVEL						

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DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEISE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

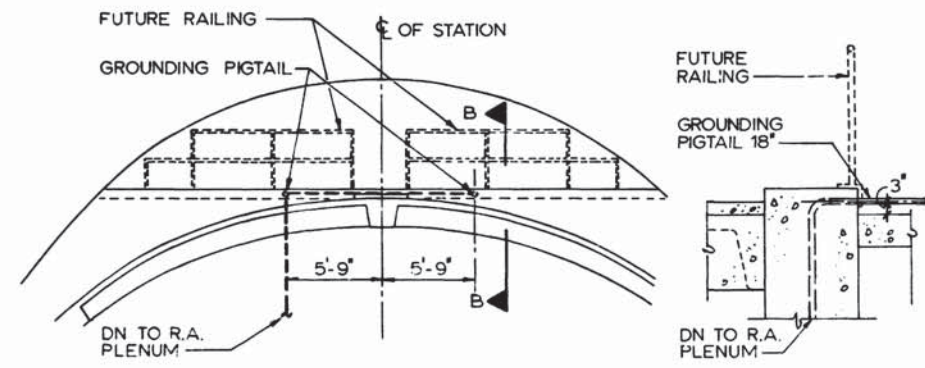
ROCKVILLE ROUTE
BETHESDA STATION
 NORTH & SOUTH ANCILLARY SPACES-PLATFORM LEVEL

SCALE: 1/8" = 1'-0" AND AS NOTED

DRAWING NO. A11b-E-3

STATE OF MARYLAND
 REGISTERED PROFESSIONAL ENGINEER

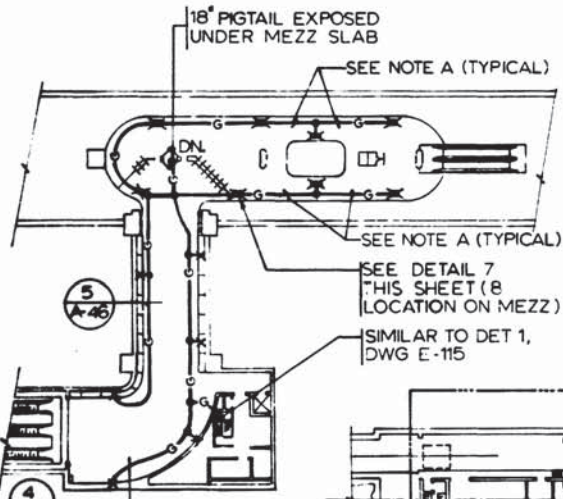
DATE: 5/12/77



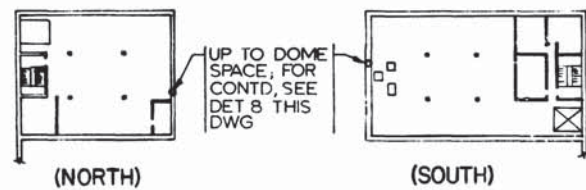
SECTION A-A

SECTION B-B

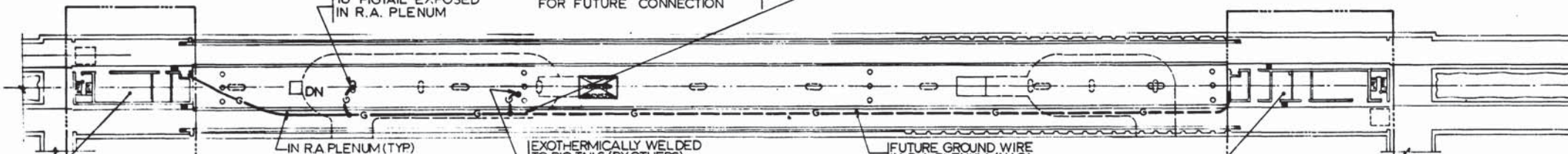
8 DOME SPACE HANDRAIL GROUNDING DETAIL
NOT TO SCALE



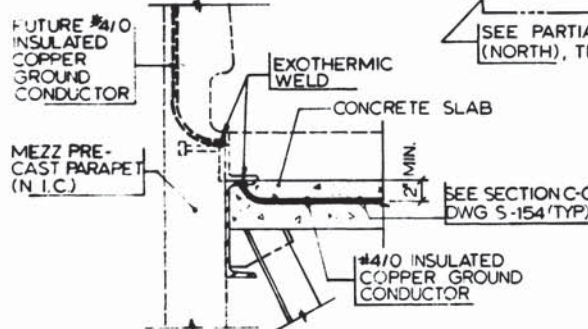
E PASSAGWAY & MEZZANINE
(E-8 & E-10)



D MEZZANINE LEVEL
(E-9)



C BETHESDA STATION - PLATFORM LEVEL
(E-5, E-6 & E-7)

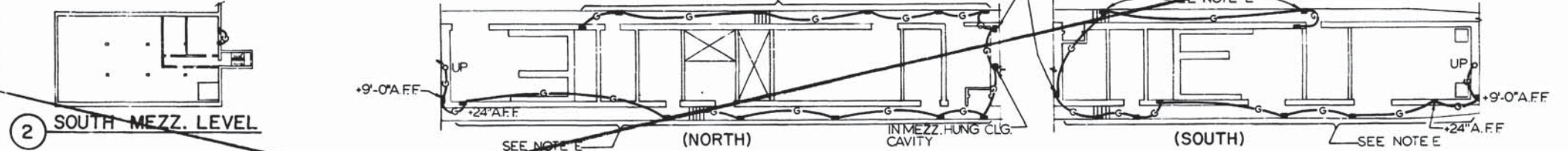


7 PARAPET GROUNDING DETAIL
NOT TO SCALE) E-47, E-8

LEGEND

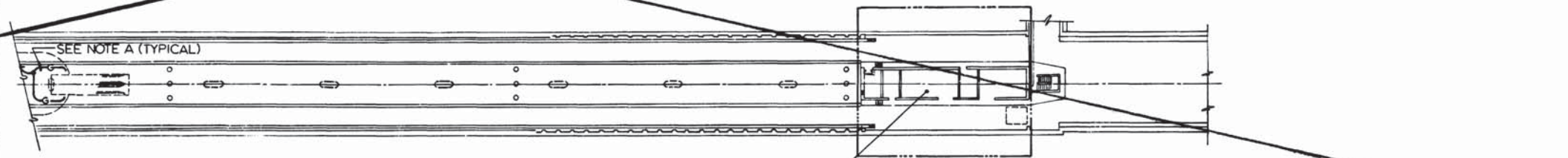
- SEE DETAIL 6
- SEE DETAIL 1 DWG E-115
- SEE DETAIL 2, DWG E-115 (SIMILAR)
- ✕ SEE DETAIL 7, THIS DWG
- SEE DETAILS 8 & 9, DWG A-46

NOT USED

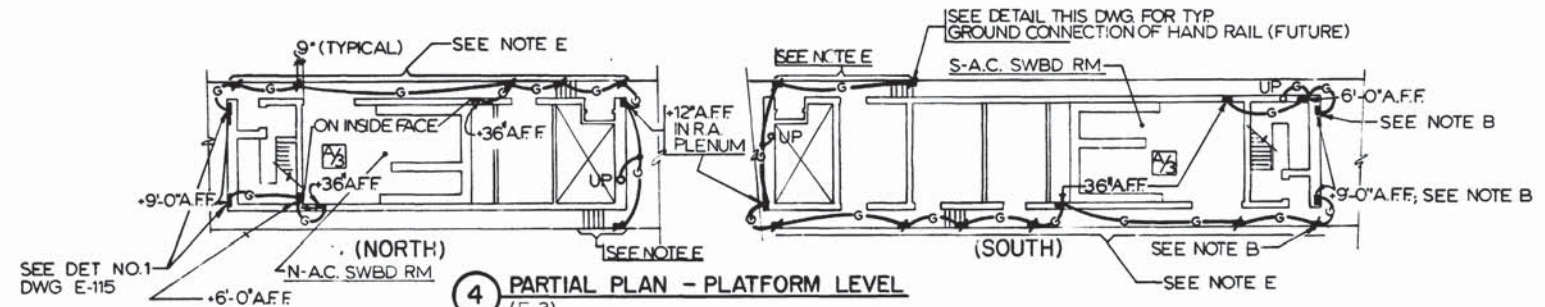


2 SOUTH MEZZ. LEVEL

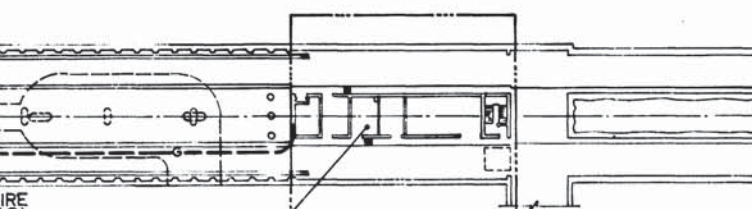
3 PARTIAL PLAN - PLATFORM LEVEL



A MEDICAL CENTER STATION - PLATFORM LEVEL



4 PARTIAL PLAN - PLATFORM LEVEL
(E-3)



6 HAND RAIL GROUNDING PIG TAIL (TYPICAL)
NOT TO SCALE) E-47

- NOTES:**
- A. FOR GROUNDING OF HANDRAILS, ETC. THE PIG TAILS SHALL BE EXOTHERMICALLY WELDED TO THE #4/0 INSULATED COPPER GROUNDING CONDUCTOR. ALL PIG TAILS BY OTHERS PIGTAILS FOR CONTINUOUS HANDRAILS AT NO MORE THAN 50'-0".
 - B. FOR GROUND CONNECTORS, SEE DETAIL 1 ON DWG E-115.
 - C. FOR EXACT LOCATION OF GROUND CONNECTORS FOR FUTURE HANDRAIL, SEE ARCHITECTURAL DWGS.
 - D. ALL GROUNDING CONDUCTORS AND GROUND CONNECTORS SHALL BE EMBEDDED IN CONCRETE (OR AS NOTED).
 - E. GROUNDING CONNECTORS FOR FUTURE HANDRAILS.



DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
P. S. CHU	2/27/76	S-140	NORTH SERVICE AREA PLANS AND SECTIONS	7/8/77	H.Z.	GENERAL REVISION
ELENA ROCHA	3/29/76	S-168	SOUTH SERVICE AREA PLANS AND SECTIONS	10/12/77	H.Z.	CHANGED GROUNDING PIG TAIL CONDUIT ELEVATION
P. S. CHU	3/25/77	A-23	ANCILLARY SPACES - PLATFORM LEVEL			
H. B. ZACKRISON	3/25/77	A-36	ANCILLARY ELEVATIONS			



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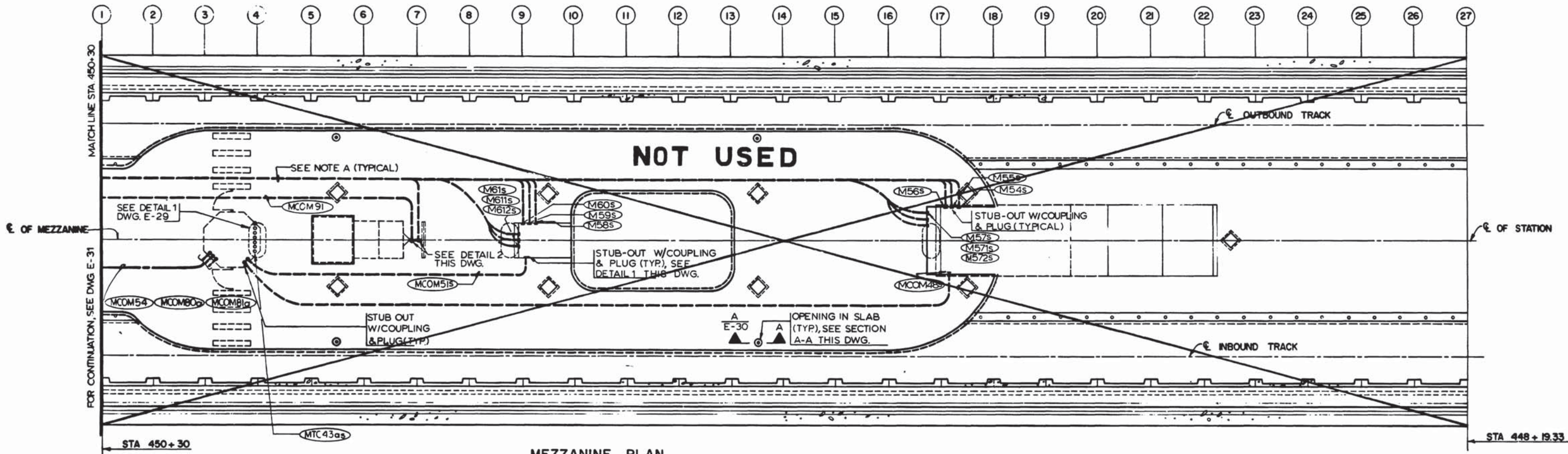
DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

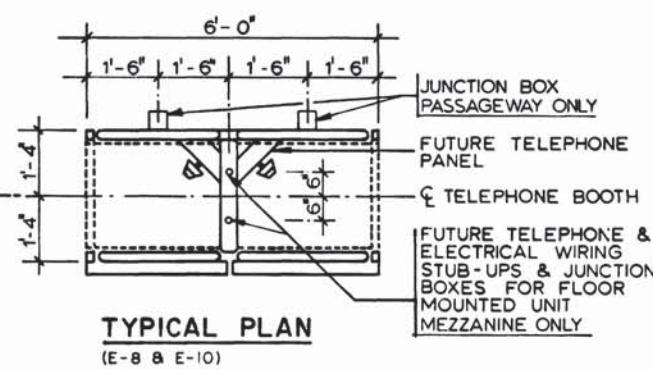
SUBMITTED *Ken Chatman* DATE 5/12/77 APPROVED *Robert Weese*

**ROCKVILLE ROUTE
BETHESDA STATION
GROUNDING ARRANGEMENT**

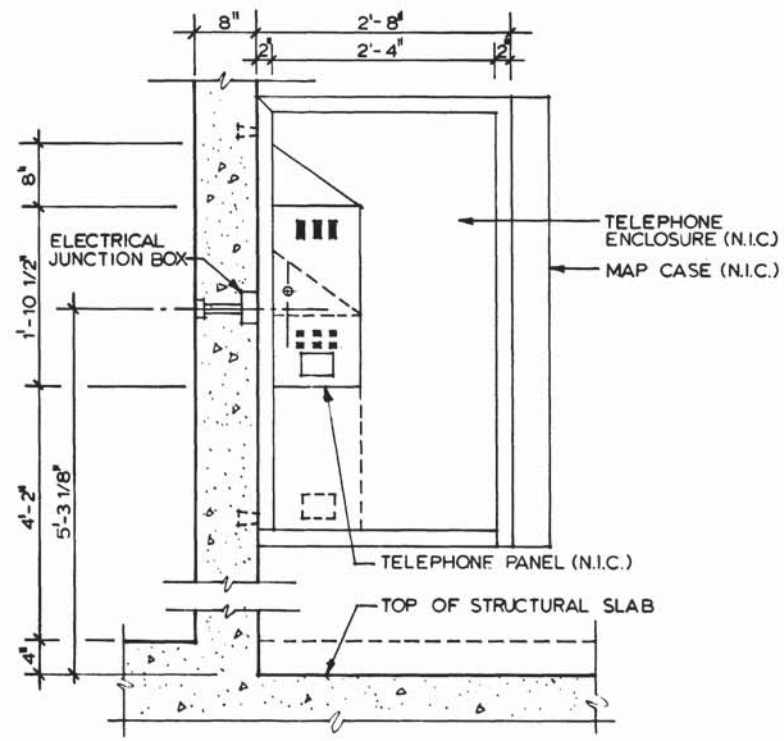
SCALE: NOT TO SCALE DRAWING NO. A11b-E-47 M276-231



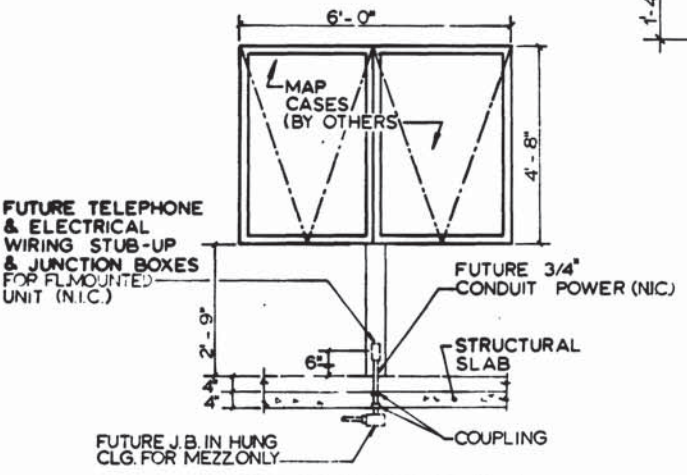
MEZZANINE PLAN



TYPICAL PLAN
(E-8 & E-10)



SIDE ELEVATION
PASSAGEWAY ONLY (E-8)



FRONT ELEVATION I
(E-10) MEZZANINE ONLY

2 TELEPHONE BOOTH & MAP CASE DETAIL
(NOT TO SCALE)



REVISION
K. Weisger

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
P. S. CHU	12-1-74	E-8	MEZZ. PLAN	7-8-77	H.Z.	GENERAL REVISIONS
E. ROCHA	12-1-75	E-10	PASS. - ANCIL. PLAN			
P. S. CHU	3-25-77	A-28	MEZZ. PLAN & SECTION			
H. B. ZACKRISON	3-25-77	A-29	PASS. - ANCIL. PLAN			



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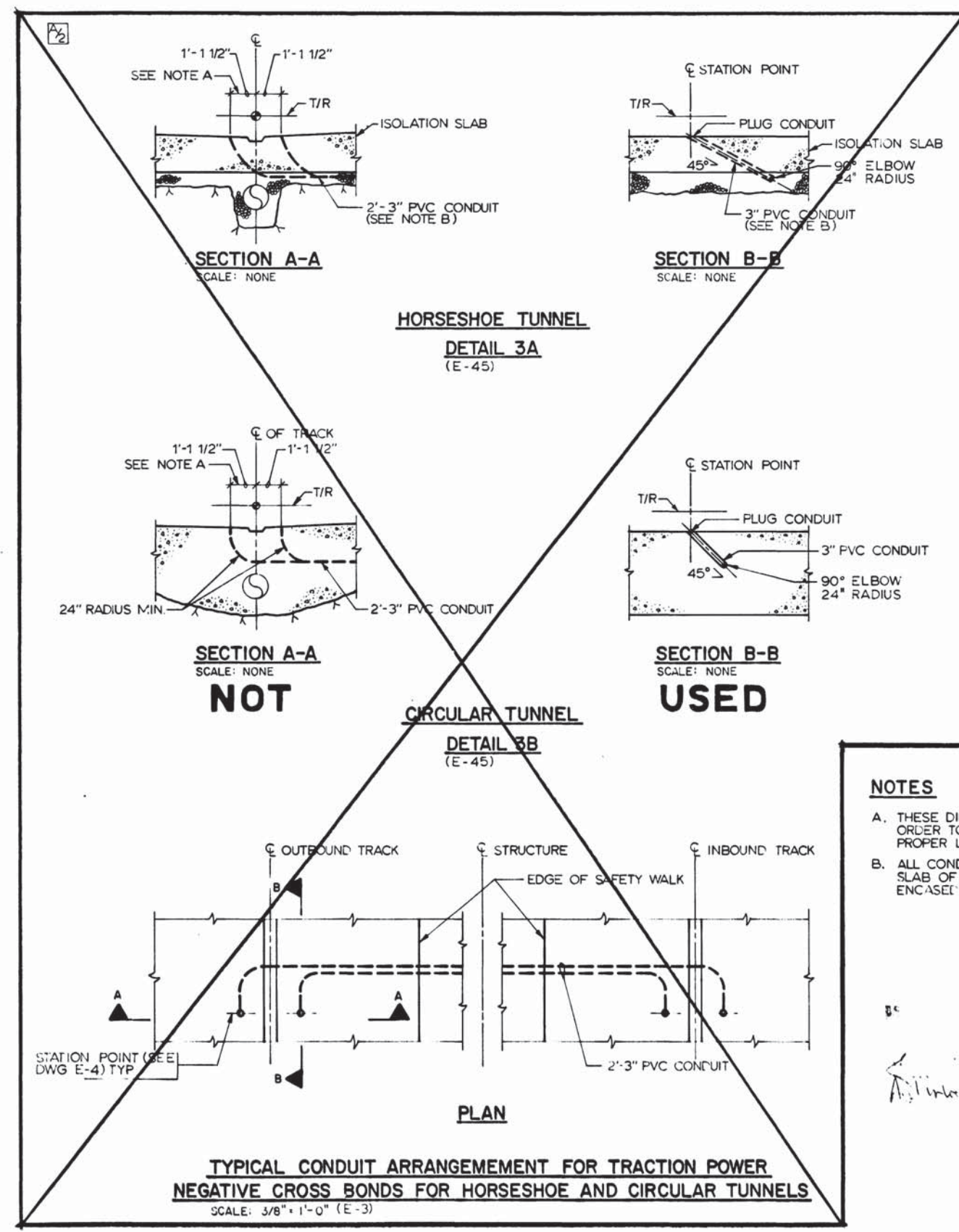
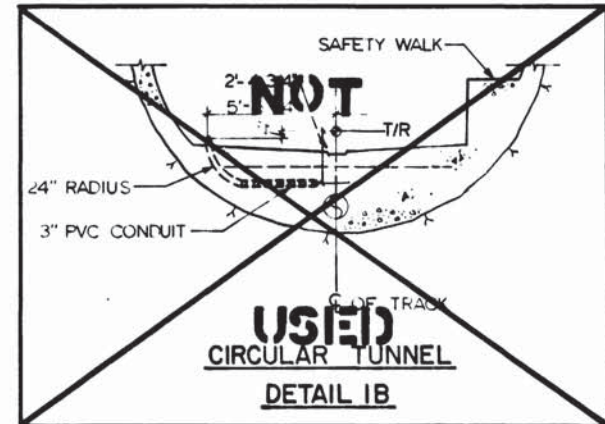
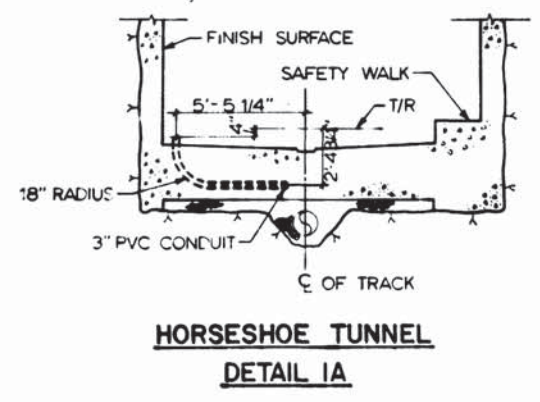
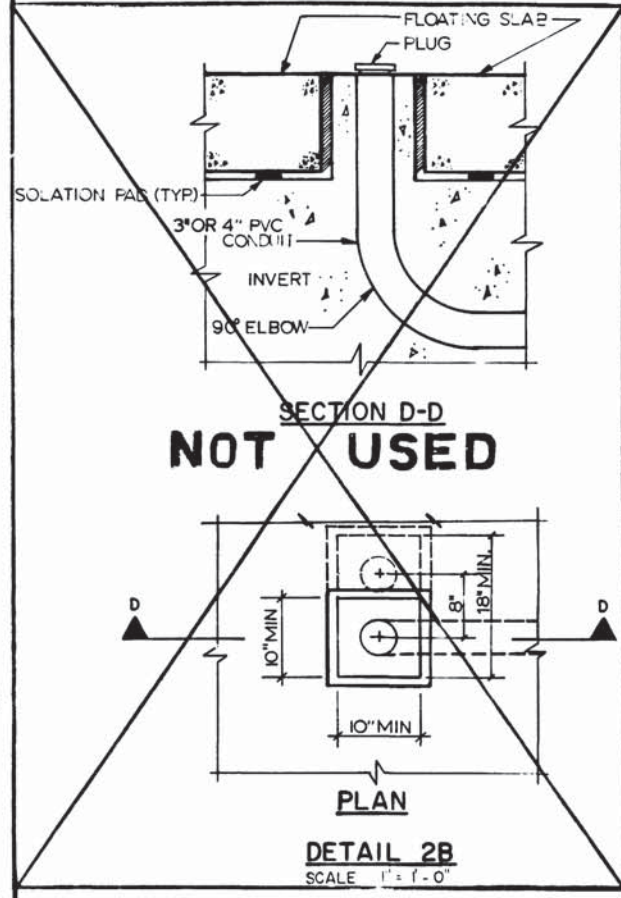
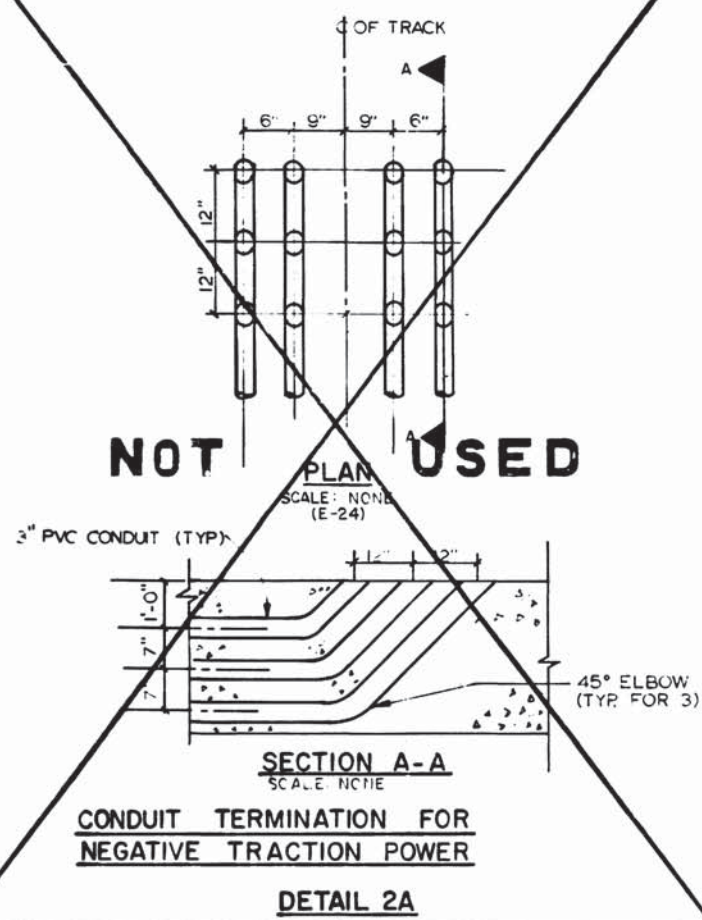
HARRY WEISS & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *Vera Chastain* DATE 5/12/77 APPROVED *Kate...*

ROCKVILLE ROUTE
BETHESDA STATION
TELEPHONE BOOTH & MAP CASE DETAIL

SCALE 1/8" = 1'-0" 1 2 4 8 16
 AND AS NOTED

PROJECT NO. A11b-E-30 DRAWING NO. M276-230



- NOTES**
- A. THESE DIMENSIONS MUST BE ADHERED TO IN ORDER TO PLACE FUTURE WORK IN THE PROPER LOCATION.
 - B. ALL CONDUITS EMBEDDED BELOW ISOLATION SLAB OF CONCRETE INVERTS SHALL BE ENCASED IN CONCRETE 2" MIN. THICKNESS.



DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1		3-17-75	P.S. CHU		7-8-77	H.Z.	SECTIONS & PLAN NOT USED
2		3-17-75	K. SAMPERTON				
3		3-25-77	P.S. CHU				
4		3-25-77	H.R. ZACKRISON				

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ENGINEERS AND ARCHITECTS
SECTION DESIGNER

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *Ken Johnston* DATE *5/12/77* APPROVED *Kenneth Weese*

**ROCKVILLE ROUTE
EMBEDDED ITEMS
DETAILS**

SCALE: AS NOTED

DRAWING NO. **A11b-E-45**

M276-229

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	CONDUIT RUN CONCEALED
	NUMBER AND LETTER INDICATES CONDUIT DESIGNATION
	CONDUIT TURNING UPWARD OR FORWARD
	CONDUIT TURNING DOWN OR AWAY
	CONDUIT CAPPED
	CONDUIT TERMINATED WITH COUPLING FLUSH WITH CONCRETE AND PLUGGED
	PULL BOX
	RECESS FOR LIGHTING FIXTURE
	SPEAKER ENCLOSURE - TYPE A EMBEDDED (DRAWING ST-TC-3)
	JUNCTION BOX MOUNTED IN CEILING
	JUNCTION BOX MOUNTED AT 18" A.F.F. UNLESS OTHERWISE NOTED - R DENOTES RECESSED
	GROUND CONDUCTOR; NO. 4/0 INSULATED WHEN CONCEALED IN CONCRETE AND BARE WHEN BURIED IN GROUND
	CLOSED CIRCUIT TELEVISION (CCTV) CAMERA OUTLET
	NUMBER AND/OR LETTER INDICATES CONDUIT GROUP
	DETAIL NUMBER SHEET NUMBER

ABBREVIATIONS

A. F. F.	ABOVE FINISH FLOOR	LTG.	LIGHTING
A. C. U.	AIR CONDITIONING UNIT	MACH.	MACHINE
A. H. U.	AIR HANDLING UNIT	MAINT.	MAINTENANCE
A. C.	ALTERNATING CURRENT	M. H.	MANHOLE
&	AND	MAX.	MAXIMUM
APPROX.	APPROXIMATELY	MECH.	MECHANICAL
A-C	ASBESTOS-CEMENT	MEZZ.	MEZZANINE
@	AT	MIN.	MINIMUM
BATT.	BATTERY	MISC.	MISCELLANEOUS
BKR.	BREAKER	MTR.	MOTOR
BLDG.	BUILDING	NEG.	NATIONAL ELECTRICAL CODE
CAB.	CABINET	NEMA.	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CLG.	CEILING	NEG.	NEGATIVE
CL	CENTER LINE	N.	NORTH
C. C.	CENTER TO CENTER	N.I.C.	NOT IN CONTRACT
CHGR.	CHARGER	N. T. S.	NOT TO SCALE
CKT	CIRCUIT	NO.	NUMBER
CCTV	CLOSED CIRCUIT TELEVISION	O.B.	OUTBOUND
COL.	COLUMN	OC.	ON CENTER
COMM.	COMMUNICATIONS	PASS.	PASSAGEWAY
COND	CONDUIT	PNL.	PANEL
CONTD	CONTINUED OR CONTINUATION	PLATF.	PLATFORM
CONTR.	CONTRACTION	PVC.	POLYVINYL CHLORIDE
CONV.	CONVENIENCE	POS.	POSITIVE
		PEPCO.	POTOMAC ELECTRIC POWER COMPANY
D. T. S.	DATA TRANSMISSION SYSTEM	PWR.	POWER
DET.	DETAIL	PABX.	PRIVATE AUTOMATIC BRANCH EXCHANGE
DIA.	DIAMETER	P. A.	PUBLIC ADDRESS
D. C.	DIRECT CURRENT		
DN.	DOWN	RECEPT	RECEPTACLE
DWG.	DRAWING	REF.	REFERENCE
		R. A.	RETURN AIR
EA.	EACH	RM.	ROOM
ELEC.	ELECTRIC OR ELECTRICAL	SCH.	SCHEDULE
EL.	ELEVATION	SERV.	SERVICE
ELEV.	ELEVATOR	S.	SOUTH
EMER.	EMERGENCY	STA.	STATION
EQUIP.	EQUIPMENT	S.S.	SUBSTATION
ESCAL.	ESCALATOR	STRUC.	STRUCTURE
E. P. R.	ETHYLENE PROPYLENE RUBBER	SYS.	SYSTEM
E. F.	EXHAUST FAN	SWBD.	SWITCHBOARD
E.T.S.	EMERGENCY TRIP STATION		
FDR.	FEEDER	TEL.	TELEPHONE
FIN.	FINISHED	TPSS	TRACTION POWER SUBSTATION
FA	FIRE ALARM	THRU.	THROUGH
F.E.	FIRE EQUIPMENT	T/R	TOP-OF-RAIL
FL.	FLOOR	TRANSF.	TRANSFORMER
FUT.	FUTURE	TYP.	TYPICAL
F.S.	FAN SHAFT		
		VENT.	VENTILATION
GALV.	GALVANIZED	V.S.	VENT SHAFT
GND.	GROUND		
GASR.	GALVANIZED ALLOY STEEL RIGID		
GSR.	GALVANIZED STEEL RIGID		
HTR.	HEATER		
I.B.	INBOUND		

GENERAL NOTES

- ALL CONDUITS EMBEDDED IN CONCRETE FLOOR SLAB OR INVERT SHALL BE STUB-UP WITH COUPLING FLUSH WITH CONCRETE AND PLUGGED EXCEPT STATED OR SHOWN OTHERWISE. (TRACTION POWER CONDUITS EXCLUDED).
- NOT USED.
- THE DESIGNATION OF TRACTION POWER CONDUIT GROUP NUMBERS AT TRACK LEVEL IN THIS CONTRACT SHALL BE THE SAME AS THOSE IN ALL CONTRACTS EXCEPT WITH A SUFFIX '1' ADDED, i.e. 20 IN ALL CONTRACTS SHALL BE CORRESPONDED TO 201 IN THIS CONTRACT. THE SUFFIX DENOTE THE SAME CONDUITS AT HIGH LEVEL (NEAR TRACTION POWER SUBSTATION) WITH SUFFIX 'S'.
- FOR EACH "LEFT IN PLACE" SOLDER PILE GROUPS (WHICH IS ELECTRICALLY BONDED BY OTHERS) THAT LOCATE ADJACENT TO THE TRACTION POWER SUBSTATION, PROVIDE ONE #4/0 INSULATION GROUNDING CONDUCTOR FROM THE SOLDER PILE GROUP TO TRACTION POWER SUBSTATION. ONE END OF THE GROUNDING CONDUCTOR SHALL BE THERMITE WELDED TO THE SOLDER PILE AND THE OTHER END SHALL FORM A 18" PIG TAIL FOR FUTURE CONNECTION. THE GROUNDING CONDUCTOR SHALL BE ENCLOSED IN A 2" PVC CONDUIT EMBEDDED IN CONCRETE FOR EACH "LEFT IN PLACE" SOLDER PILE GROUPS (ELECTRICALLY BONDED) THAT IS REMOTE FROM TRACTION POWER SUBSTATION, PROVIDE A #4/0 INSULATED GROUNDING CONDUCTOR INTERCONNECTING THE SOLDER PILE GROUP AND THE ADJACENT REINFORCING STEEL IN CONCRETE STRUCTURE WHICH IS ELECTRICALLY BONDED FOR DRAINAGE. THE GROUNDING CONDUCTOR SHALL BE EMBEDDED DIRECTLY IN CONCRETE OR ENCLOSED IN A 2" PVC CONDUIT ENCASED WITH CONCRETE ENVELOPE.
- FOR THE CONDUITS EMBEDDED IN THE FLOOR SLAB ON PLATFORM LEVEL OF BOTH NORTH AND SOUTH ANCILLARY AREAS, THE CONDUIT ROUTING SHOULD BE KEPT TO THE SHORTEST RUN AND WITH THE LEAST NUMBER OF BENDS AS PRACTICABLE SOME CONDUIT ROUTING MAY HAVE TO EMERGE FROM FLOOR SLAB AND RUN IN THE "COMPACTED BACKFILL" LAYER (UNDER SLAB) TO ACHIEVE SUCH REQUIREMENT. SUCH PORTION OF CONDUIT RUN SHALL BE ENCASED IN CONCRETE ENVELOPE OF NOT LESS THAN 2" CONCRETE COVERING.
- FOR SLEEVE SIZES SEE SLEEVE DETAIL AND SLEEVE CHART DWG E-5.
- THE MINIMUM BENDING RADIUS FOR CONDUITS IN PEPCO DUCTBANKS SHALL BE 48".



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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS
SECTION DESIGNER

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

SUBMITTED *Leann Chatell* DATE *5/12/77*

APPROVED *Robert J. [Signature]*

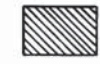
ROCKVILLE ROUTE
SYMBOLS, ABBREVIATIONS &
GENERAL NOTES

SCALE NONE DRAWING NO. A11b-E-2 M276-228

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
P. S. CHU	8-9-74			7-8-77	GENERAL REVISION
C. J. REID	8-21-74			10-12-77	REVISED GENERAL NOTES
P. S. CHU	3-25-77				
H. B. ZACKRISON	3-25-77				



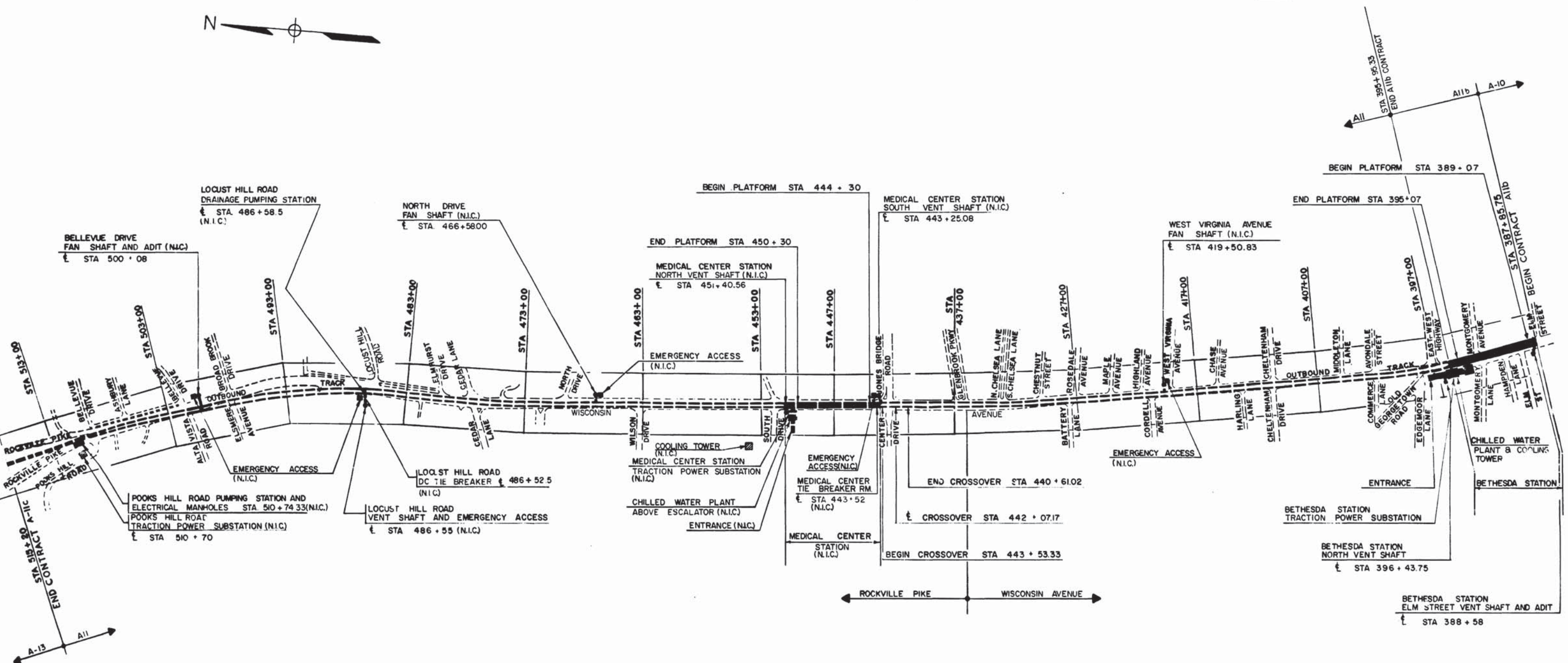
LEGEND



NOT IN CONTRACT

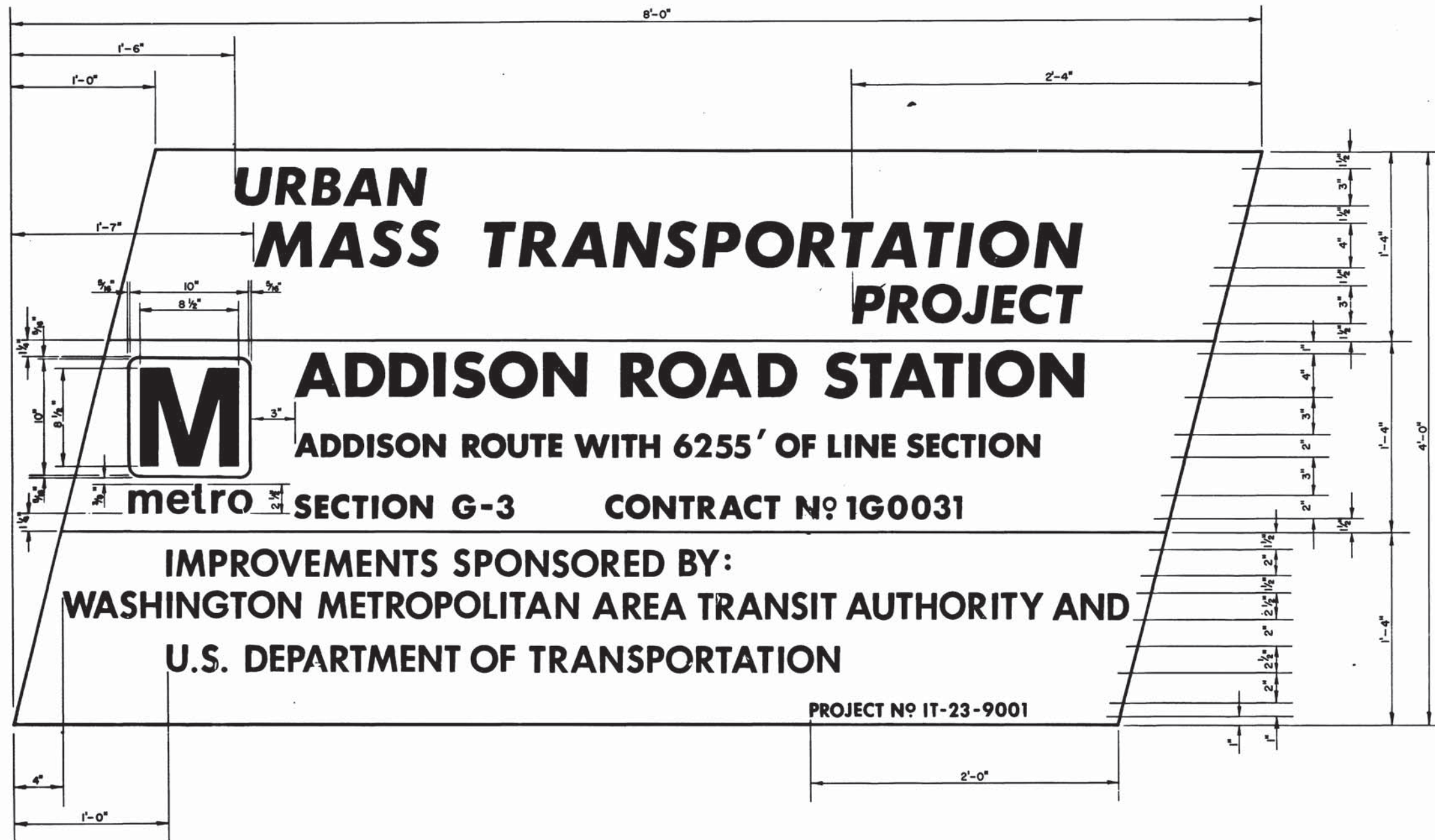


IN CONTRACT A-11b OR AS NOTED



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DESIGNED P. S. CHU DATE 7-19-74	7-19-74	REFERENCE DRAWINGS		REVISIONS			WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY MATHEWS • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER SUBMITTED <i>Jan Chastell</i> DATE 5/12/77	DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT	ROCKVILLE ROUTE KEY PLAN ELECTRICAL DRAWINGS SCALE 1" = 400' DRAWING NO. A11b-E-1	M276-227	
DRAWN C. REID DATE 7-21-74	7-21-74	NUMBER	DESCRIPTION	DATE	BY						DESCRIPTION
CHECKED P. S. CHU DATE 3-25-77	3-25-77	A-1	KEY PLAN OF STRUCT DWGS								
APPROVED H. B. ZACKRISON DATE 3-25-77	3-25-77	A-1	ABBREVIATIONS, GEN NOTES, LEGEND, KEY PLAN								
		M-1	KEY PLAN OF MECH DWGS								



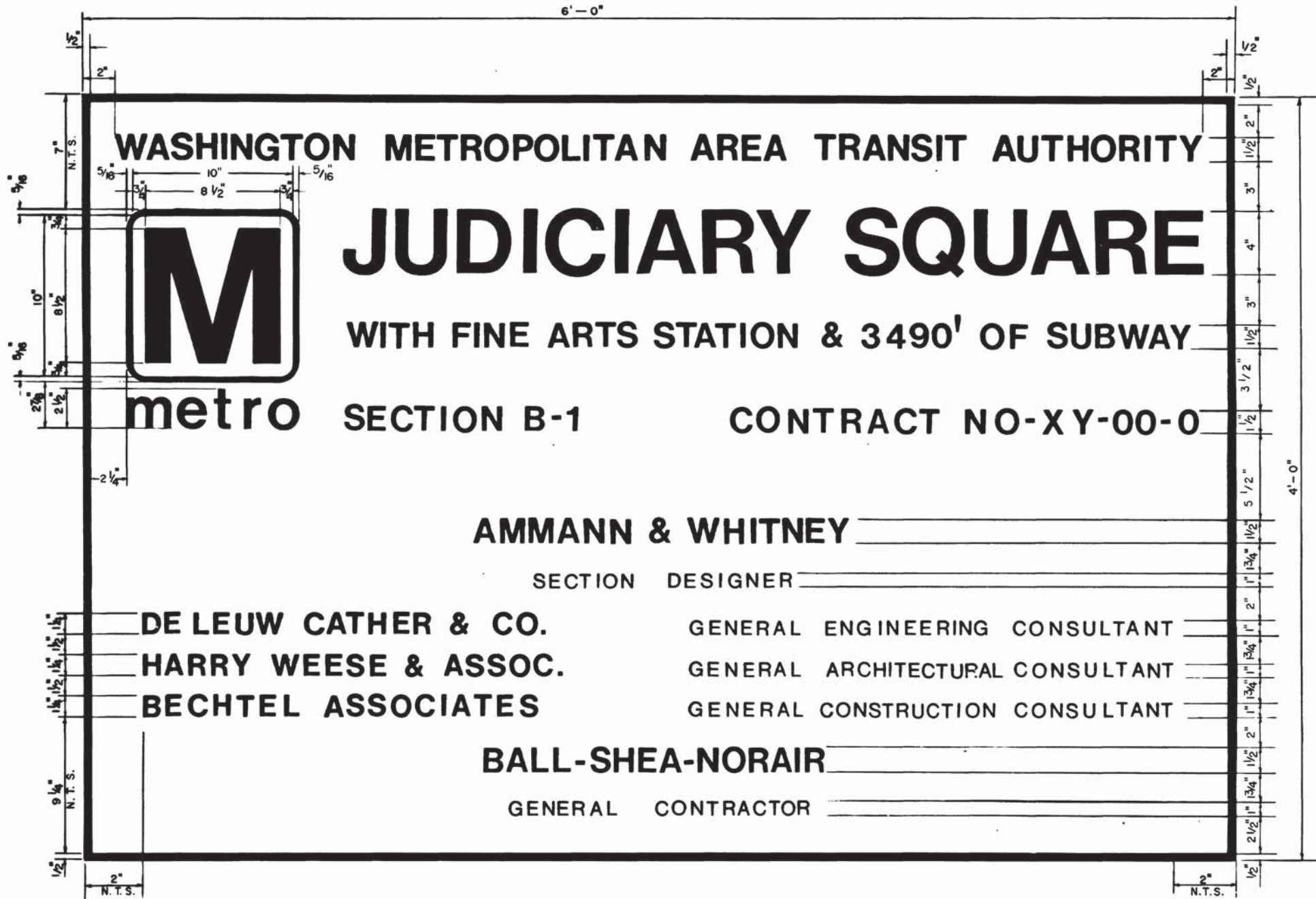
NOTES

1. The General Contractor shall provide two project signs per station structure or line section, and shall erect them in a location approved by the Authority.
2. Signs are to be cut from 3/4" standard 4' X 8' exterior grade plywood sheets.
3. Signs shall be tri-color and wording shall conform in general to the arrangement shown as follows:
 - A. Top panel shall be white lettering on red background. All lettering shall be Futura Bold Italic.
 - B. Center Panel shall be blue lettering on white background. All lettering shall be Futura Bold.
 - C. Bottom panel shall be white lettering on blue background. All lettering shall be Futura Demibold.
4. No information shall be included on the project signs except that stipulated in note 5.
5. Exact wording of project description, section number, contract number and USDOT project number shall be as follows:

Sign 1: Bethesda Station
Section A11b Contract 1A0112
Project No. IT-23-9003

Sign 2: Same as above

DESIGNED <u>HICKEY (WMATA)</u> 10/9/75 DATE	REFERENCE DRAWINGS	REVISIONS			WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY APPROVED <u>George W. Hayes</u> 10/17/75 ACTG DIRECTOR OF ENGINEERING WMATA APPROVED <u>Ronald D. Dwyer</u> 10/17/75 CHIEF OF DESIGN AND CONSTRUCTION DATE		DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT		UTILITY STANDARD DRAWING UMTA PROJECT IDENTIFICATION SIGN SECTION NO. A11b	
DRAWN <u>REID, LUCAS</u> 10/10/75 DATE	NUMBER DESCRIPTION	DATE BY DESCRIPTION								
CHECKED <u>RYNTIES</u> 10/10/75 DATE				NONE	ST-U-67	M276-15				
APPROVED <u>[Signature]</u> DATE										



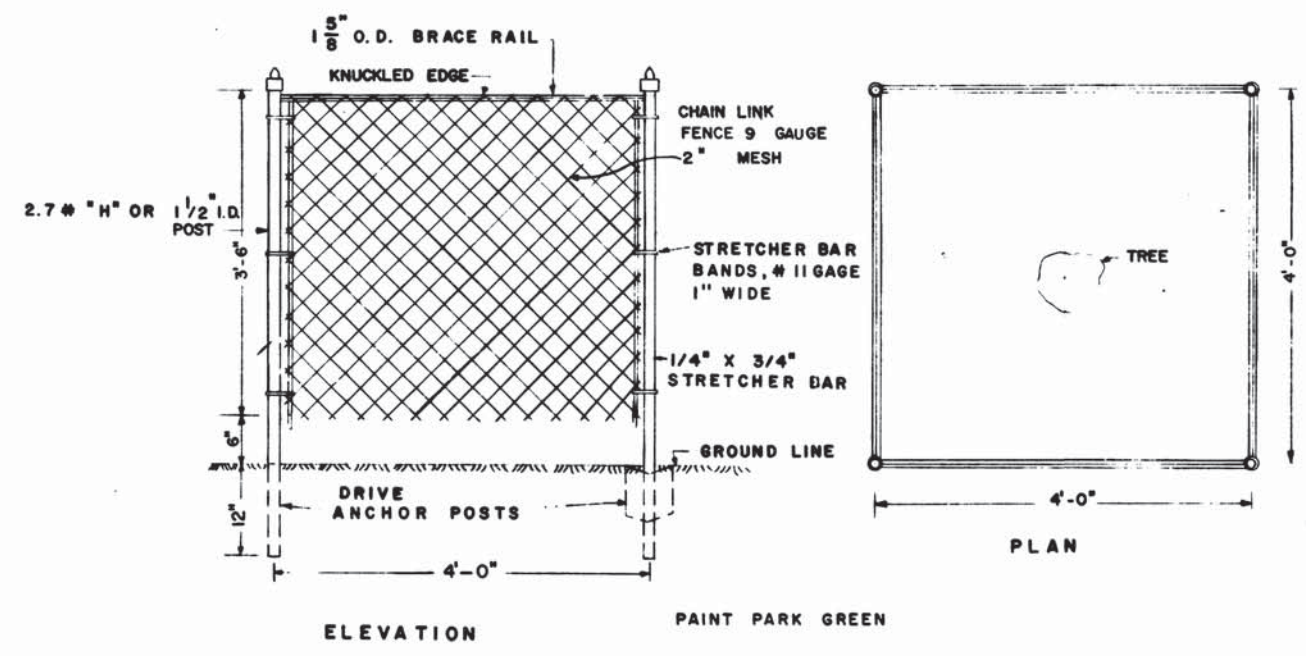
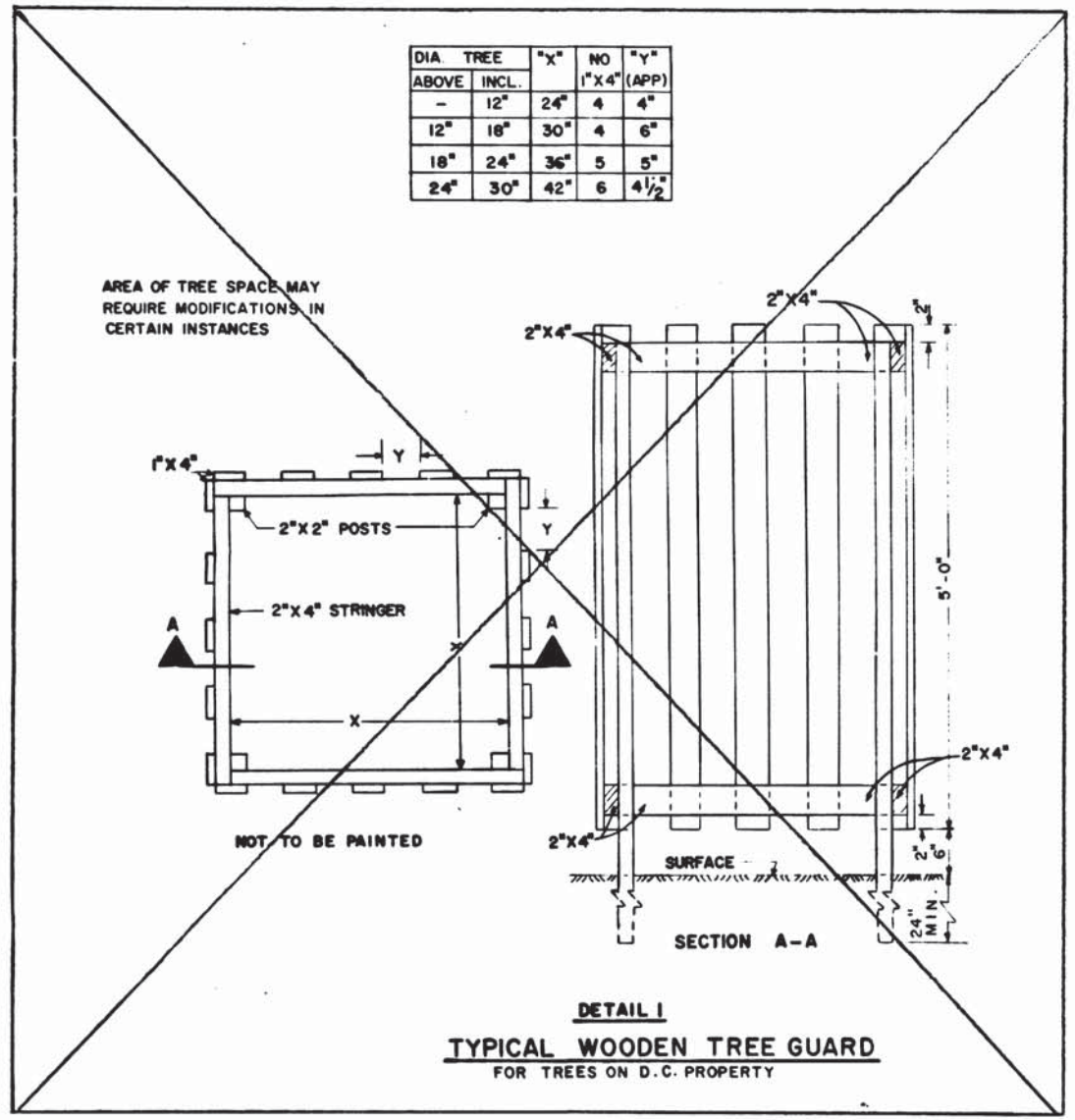
NOTES:

1. THE GENERAL CONTRACTOR SHALL PROVIDE TWO PROJECT SIGNS OF THE TYPE SHOWN AND SHALL ERECT THEM IN A LOCATION APPROVED BY THE AUTHORITY.
2. SIGN BACKING SHALL BE 3/4" PLYWOOD SUPPORTED ON 4" X 4" X 10'-0" POSTS SET 3'-0" IN GROUND OR IN AN APPROVED PLACE ON THE CONSTRUCTION FENCE.
3. SIGNS SHALL BE BLACK ON WHITE WITH BLACK BORDER. ALL LETTERING SHALL BE HELVETICA OR HELVETICA MEDIUM STYLE. WORDING SHALL CONFORM IN GENERAL TO THE ARRANGEMENT SHOWN.
4. EXACT WORDING OF PROJECT DESCRIPTION, SECTION NUMBER, CONTRACT NUMBER, AND SECTION DESIGNER'S NAME SHALL BE AS FOLLOWS:
 SIGN NO. 1 BETHESDA STATION
 SECTION A11 CONTRACT NO. 1A0112
 A. A. MATHEWS, INC.
 CHATELAIN, SAMPERTON AND CARCATERRA
 BEALL AND LEMAY

 SIGN NO. 2: SAME AS SIGN NO. 1

DESIGNED <u>E.R. BAUGHMAN</u> 7-8-59 DATE DRAWN <u>J.A. SOUZY</u> 7-8-59 DATE CHECKED <u>[Signature]</u> 7-12-64 DATE APPROVED <u>[Signature]</u> 7-12-64 DATE	REFERENCE DRAWINGS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NUMBER</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	NUMBER	DESCRIPTION			REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>12/27/11</td> <td><u>[Signature]</u></td> <td>REARRANGED TO ADD G.C.C. [1]</td> </tr> <tr> <td>10/4/72</td> <td><u>[Signature]</u></td> <td>CORRECTED SPELLING-ARCHITECTURAL [2]</td> </tr> <tr> <td>10/4/72</td> <td><u>[Signature]</u></td> <td>CHG. GEN. CONTRACTORS SAMPLE NAME [3]</td> </tr> <tr> <td>2/27/74</td> <td><u>[Signature]</u></td> <td>REVISED TO CONFORM WITH STANDARD SPECS [4]</td> </tr> </tbody> </table>	DATE	BY	DESCRIPTION	12/27/11	<u>[Signature]</u>	REARRANGED TO ADD G.C.C. [1]	10/4/72	<u>[Signature]</u>	CORRECTED SPELLING-ARCHITECTURAL [2]	10/4/72	<u>[Signature]</u>	CHG. GEN. CONTRACTORS SAMPLE NAME [3]	2/27/74	<u>[Signature]</u>	REVISED TO CONFORM WITH STANDARD SPECS [4]		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY APPROVED <u>[Signature]</u> 1-16-69	DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT APPROVED <u>[Signature]</u>	UTILITY STANDARD DRAWING PROJECT IDENTIFICATION SIGN SECTION NO. A11b SCALE 3" = 1'-0" DRAWING NO. ST-U-17 M276-14
NUMBER	DESCRIPTION																								
DATE	BY	DESCRIPTION																							
12/27/11	<u>[Signature]</u>	REARRANGED TO ADD G.C.C. [1]																							
10/4/72	<u>[Signature]</u>	CORRECTED SPELLING-ARCHITECTURAL [2]																							
10/4/72	<u>[Signature]</u>	CHG. GEN. CONTRACTORS SAMPLE NAME [3]																							
2/27/74	<u>[Signature]</u>	REVISED TO CONFORM WITH STANDARD SPECS [4]																							

DIA TREE ABOVE	"X" INCL.	"Y" NO	"Y" 1" X 4" (APP)
-	12"	24"	4 4"
12"	18"	30"	4 6"
18"	24"	36"	5 5"
24"	30"	42"	6 4 1/2"



DESIGNED T.F. O'CONNOR 11-8-67
DATE
DRAWN C.M. VAUGHAN 12-6-67
DATE
CHECKED [Signature] 12-5-67
DATE
APPROVED [Signature] 12-5-67
DATE

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
		10-6-69	[Signature]	CHANGED DIM. 5" TO 24", DETAIL 1 [1]
		7-8-70	[Signature]	CHANGED & ADDED MATERIAL FOR GUARDS [2]

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
		10-6-69	[Signature]	CHANGED DIM. 5" TO 24", DETAIL 1 [1]
		7-8-70	[Signature]	CHANGED & ADDED MATERIAL FOR GUARDS [2]



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED [Signature] 1-10-69

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

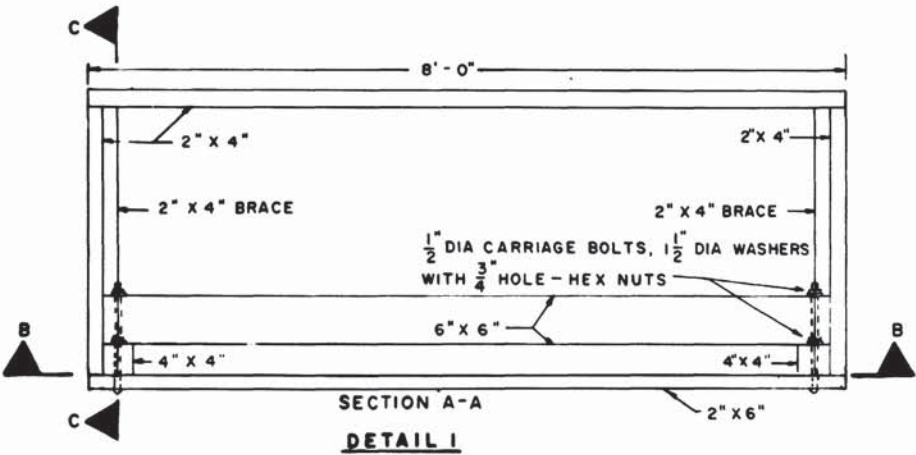
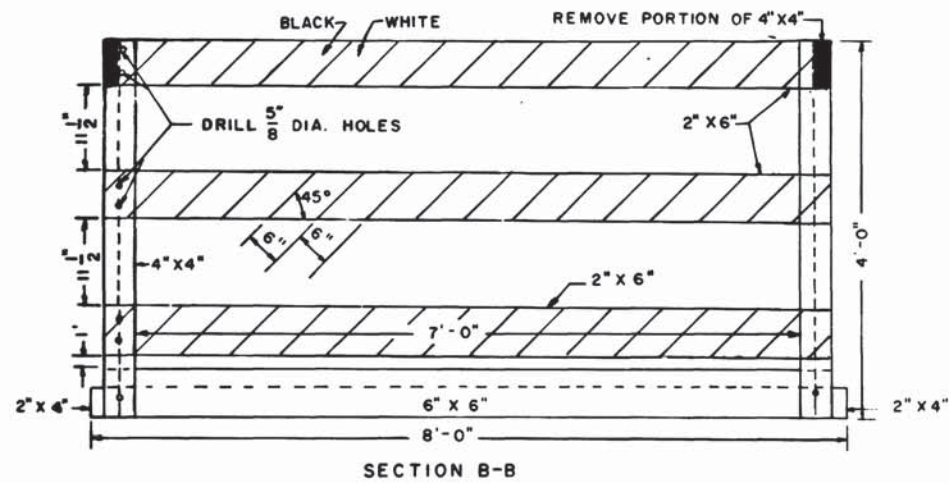
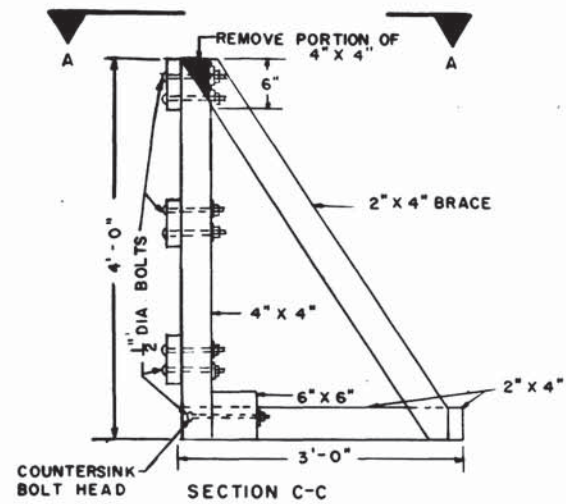
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UTILITY STANDARD DRAWING
TEMPORARY TREE GUARDS
SECTION NO. A11b

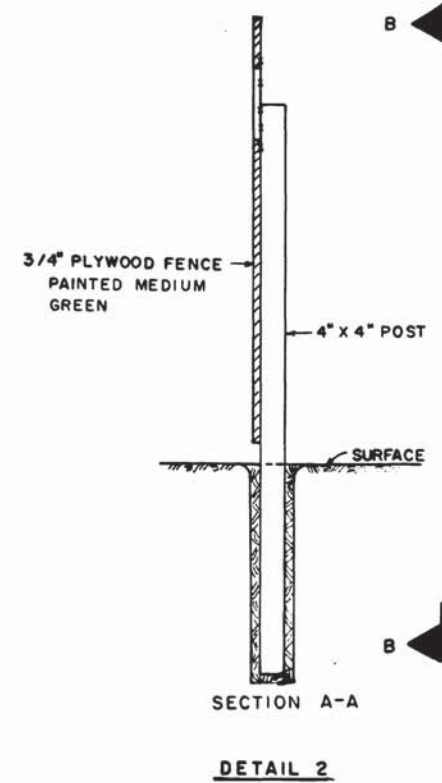
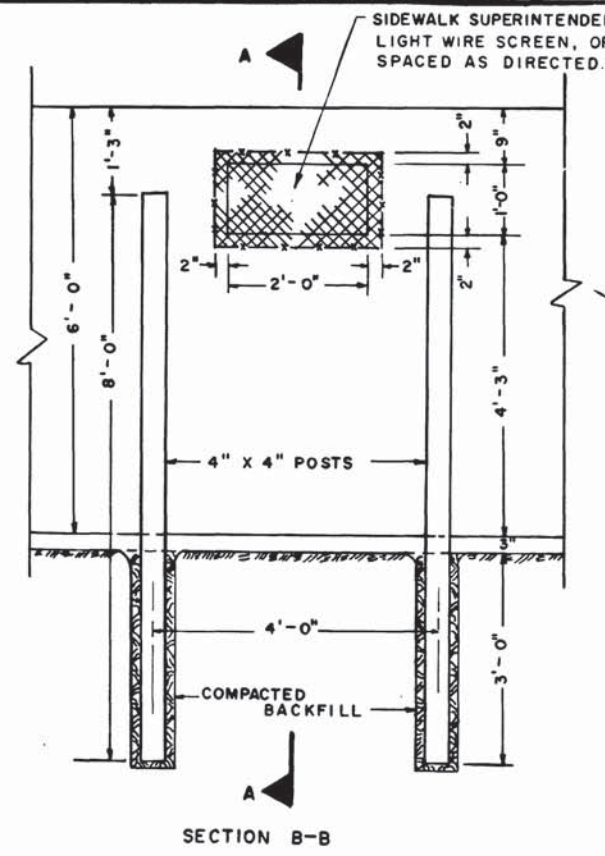
SCALE NOT TO SCALE

DRAWING NO. ST-U-16

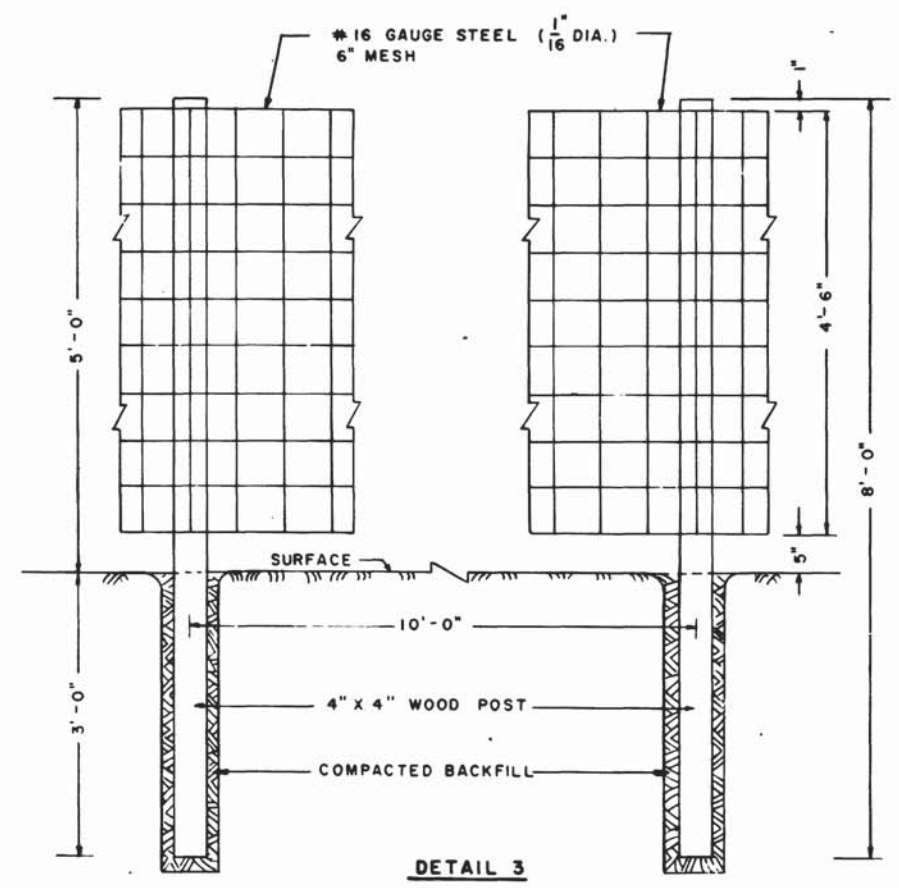
M276-13



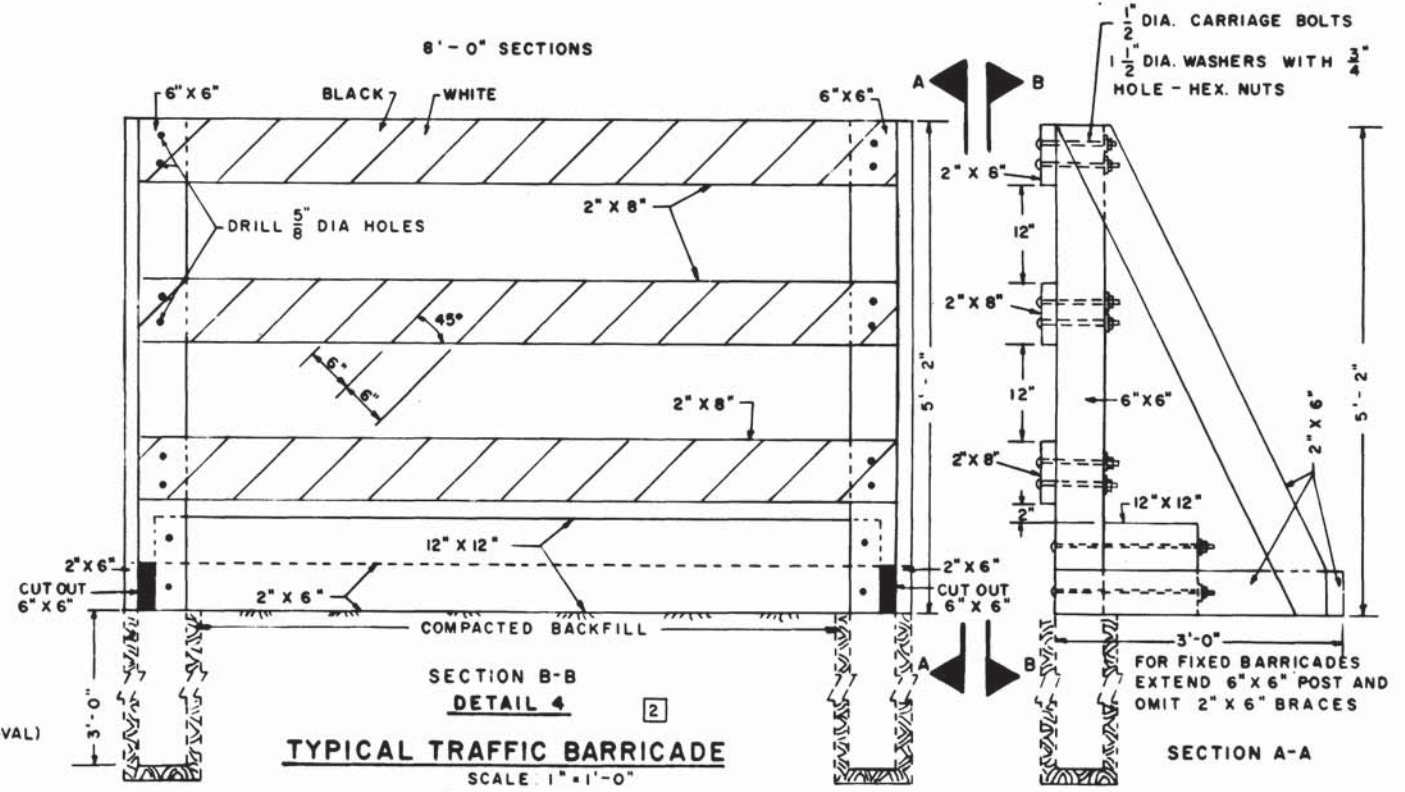
TYPICAL MOVABLE BARRICADE FOR PEDESTRIAN AREAS
SCALE: 1" = 1'-0"



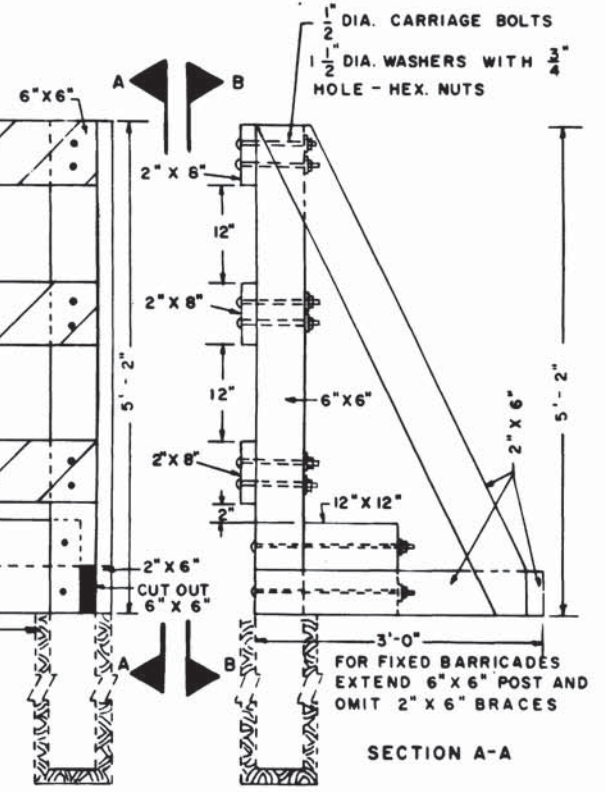
TYPICAL WORKING AREA WOODEN FENCE
(OTHER DESIGNS OF EQUAL STRENGTH MAY BE USED SUBJECT TO PRIOR APPROVAL)
SCALE 3/4" = 1'-0"



TYPICAL WORKING AREA WIRE FENCE
SCALE: 1" = 1'-0"



TYPICAL TRAFFIC BARRICADE
SCALE: 1" = 1'-0"



UTILITY STANDARD DRAWING
TEMPORARY BARRICADES AND FENCES
SECTION NO. A11B
SCALE AS NOTED
DRAWING NO. ST-U-13
M276-12

DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	BY	REVISIONS	DESCRIPTION
O'CONNOR	1-7-68			7-10-68	LEH	1	REDESIGNED DETAIL 2
HICKS	2-22-68			3-17-69	LEH	2	REDESIGNED DETAIL 2 & ADDED 6 BOLTS TO DETAIL 4
				7-15-69	WJ	3	REDESIGNED DETAIL 1



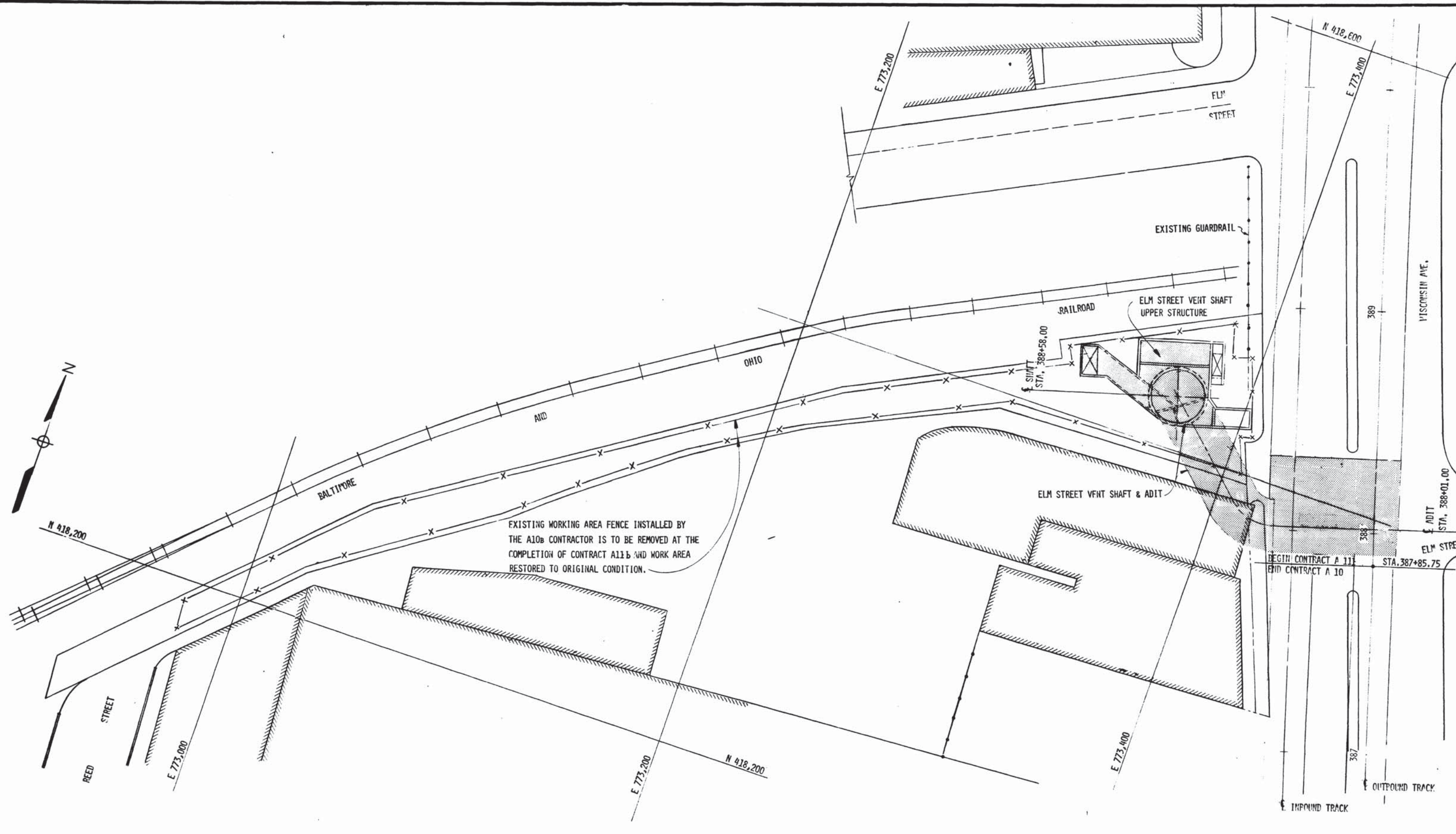
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED *Howard H. Lyman*

APPROVED *J. L. Conway* 1-10-69

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT



EXISTING WORKING AREA FENCE INSTALLED BY THE A10b CONTRACTOR IS TO BE REMOVED AT THE COMPLETION OF CONTRACT A11b AND WORK AREA RESTORED TO ORIGINAL CONDITION.

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
J.R.V. DICKSON	8-12-74	SI-U-13		FENCE DETAILS			
F.L. AMOS	8-19-74	1-14		UTILITIES			
J.R.V. DICKSON	8-24-74	C-70		SHAFT & ADIT LINING			
		R-16		RIGHT OF WAY			
		LA-6		RESTORATION PLAN			
		S-212		SHAFT UPPER STRUCTURE			



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
 ENGINEERS AND ARCHITECTS
 SECTION DESIGNER

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 05-13-77 APPROVED *[Signature]*

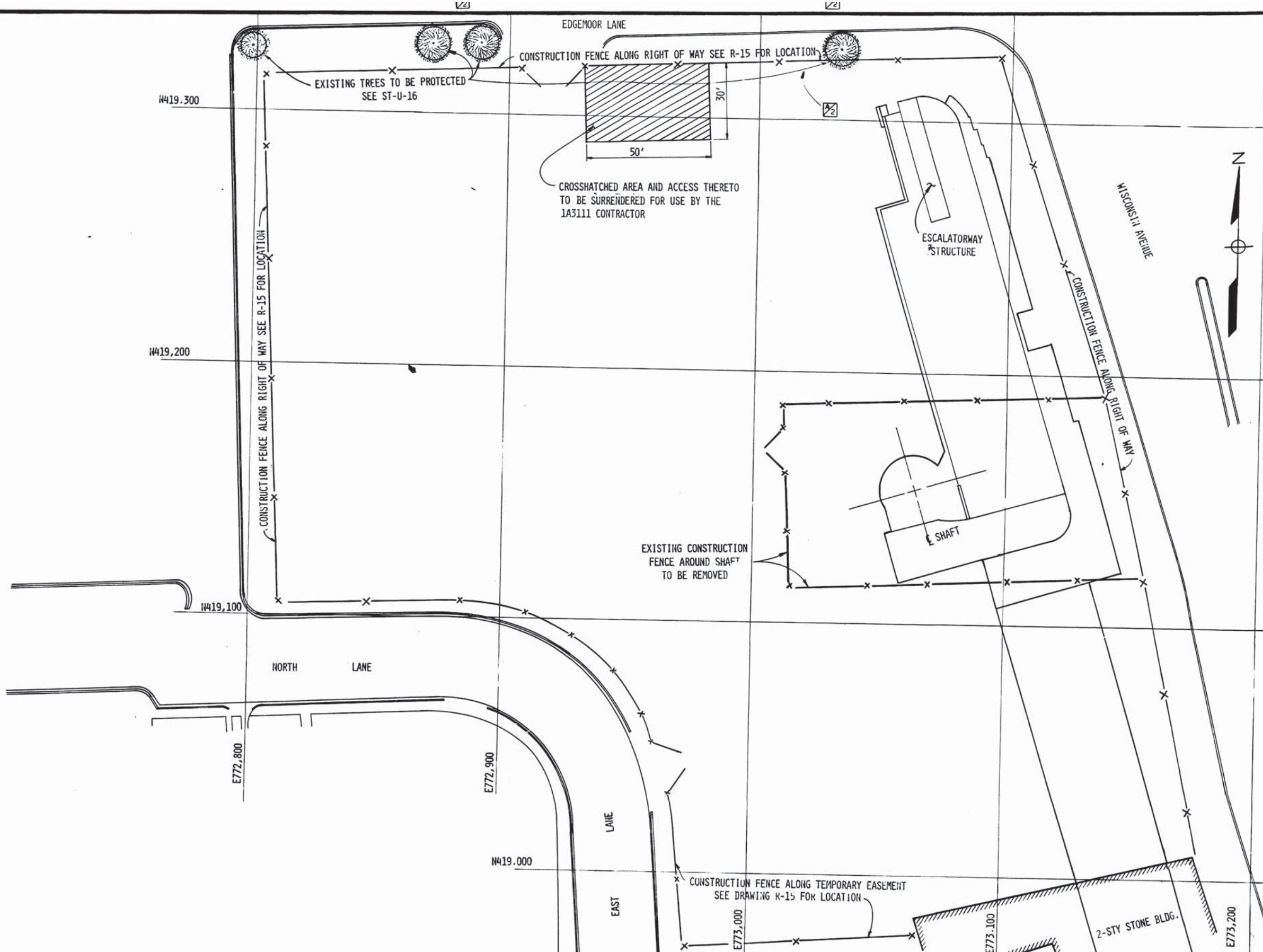
ROCKVILLE ROUTE

WORK AREA PLAN

ELM STREET VENT SHAFT

SCALE 1"=20'

DRAWING NO. **A11b-G-17** **M276-10**



DESIGNED		REFERENCE DRAWINGS		REVISIONS		
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION		
A.B. WIEGAND	3-14-77					
R-15	RIGHT OF WAY BETH. STA.	7/11/77	MFC	ADDED ARROWS TO TREE CALLOUT		
U-4	SEDIMENTATION CONTROL					
E.L. BURNETT	3-17-77					
A.B. WIEGAND	3-18-77					
	5-11-77					



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
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DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 05-13-77 APPROVED *[Signature]*

ROCKVILLE ROUTE
WORK AREA PLAN
BETHESDA STATION

SCALE 1" = 20'

DRAWING NO. A11b-G-9 M276-9

ABBREVIATIONS - GENERAL

AND.	AHEAD	Z	PERCENTAGE (RATE OF GRADE)
A.R.E.A.	AMERICAN RAILWAY ENGINEERING ASSOCIATION	P.S.	POINT OF SWITCH
ASPH.	ASPHALT	PROP.	PROPOSED
BACK.	BACK	R.O.W.	RIGHT OF WAY
B. & O.	BALTIMORE AND OHIO	RTE. OR RT.	ROUTE
B.	BASELINE OR BUILDING LINE	SECT.	SECTION
BASEMT.	BASEMENT	SPHP	STEEL PIPE, HIGH PRESSURE
B.M.	BENCHMARK	SPWHP	STEEL PIPE, WRAPPED, HIGH PRESSURE
BLK.	BLOCK	STD.	STANDARD
B.O.C.	BOTTOM OF CURVE	STA.	STATION
C.	CENTERLINE	STY.	STOPY
CONC.	CONCRETE	ST.	STREET
CONSTR.	CONSTRUCTION	TAN.	TANGENT
DIAMETER	DIAMETER	T.C.	TOP OF CURVE
ELEC.	ELECTRICAL	T/R	TOP OF RAIL
EL.	ELEVATION	TRK.	TRACK
EQV.	EQUATION	TYP.	TYPICAL
EXIST.	EXISTING	U.S.C. & G.S.	U.S. COAST & GEODETIC SURVEY
HEADWALL	HEADWALL	VERT.	VERTICAL
HORIZ.	HORIZONTAL	W.M.A.T.A.	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
IMP.	IMPED	W/O	WITHOUT
INVERT	INVERT		
L	LENGTH		
L.C.	LONG CHORD		
MARYLAND	MARYLAND		
MILES PER HOUR	MILES PER HOUR		
MODIFIED	MODIFIED		
MONUMENT	MONUMENT		
NOT IN CONTRACT	NOT IN CONTRACT		
OUTPOUND	OUTPOUND		
PAVEMENT	PAVEMENT		

ABBREVIATIONS AND SYMBOLS - HORIZONTAL ALIGNMENT

P.O.C.	POINT ON CIRCULAR CURVE	P.I.	POINT OF INTERSECTION OF MAIN TANGENTS
P.O.T.	POINT ON TANGENT	P.I.C.	POINT OF INTERSECTION OF CIRCULAR CURVE
I	TOTAL INTERSECTION ANGLE	P.I.S.	POINT OF INTERSECTION OF SPIRAL CURVE
	CENTRAL ANGLE OF CIRCULAR CURVE	P.C.	POINT OF CHANGE FROM TANGENT TO CIRCULAR CURVE
R	RADIUS OF CIRCULAR CURVE	P.T.	POINT OF CHANGE FROM CIRCULAR CURVE TO TANGENT
T	TANGENT LENGTH OF CIRCULAR CURVE	X	TANGENT DISTANCE AT S.C. OR C.S.
L	LENGTH OF CIRCULAR CURVE	Y	TANGENT OFFSET AT S.C. OR C.S.
E	EXTERNAL DISTANCE	Ts	TANGENT DISTANCE FROM T.S. OR S.T. TO MAIN P.I.
S.E.(EA)	SUPERELEVATION (ACTUAL)	P	OFFSET FROM THE INITIAL TANGENT TO THE P.C. OF THE SHIFTED CIRCLE
S.E.(EU)	SUPERELEVATION (UNBALANCED)	K	ABSCISSA OF THE SHIFTED P.C. REFERRED TO THE T.S.
Ls	TOTAL LENGTH OF SPIRAL	L.T.	LONG TANGENT
θs	CENTRAL ANGLE OF SPIRAL	S.T.	SHORT TANGENT
T.S.	POINT OF CHANGE FROM TANGENT TO SPIRAL	L.C.	LONG CHORD
S.C.	POINT OF CHANGE FROM SPIRAL TO CIRCULAR CURVE	Dc	DEGREE OF CURVE (ARC DEFINITION)
C.S.	POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL	P.C.C.	POINT OF COMPOUND CURVE
S.T.	POINT OF CHANGE FROM SPIRAL TO TANGENT	P.R.C.	POINT OF REVERSE CURVE
P.I.T.O.	POINT OF INTERSECTION OF TURNOUT		

SYMBOLS

	SYMBOL (LABEL SIGNS, MAILBOXES, ETC.)
	FENCE (LABEL TYPE)
	FENCE ON WALL
	PIPE RAIL FENCE
	GUARD RAILS WITH STEEL SIDES
	RETAINING WALL
	CURB LINE
	HEDGE
	TREE
	TREELINE
	CULVERT
	STREAM OR SHORELINE
	BUILDING OUTLINE
	POINT OF INTERSECTION - MAIN TANGENTS
	NUMBER - POINT OF INTERSECTION MAIN TANGENT
	HORIZONTAL AND VERTICAL CONTROL POINT
	ROCK LINE
	GROUND LINE
	EQUATION POINT

GENERAL NOTES

1. THE PROFILE OF THE INBOUND TRACK IS ADJUSTED UNIFORMLY TO ACCOMMODATE THE DIFFERENCE IN LENGTHS THROUGH HORIZONTAL CURVES.
2. TOP OF RAIL ELEVATIONS AS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY, TRACKWORK IS NOT PART OF THIS WORK.
3. FOR ADDITIONAL ABBREVIATIONS AND NOTES, SEE UTILITY STANDARD DWG. NO. ST-U-14 AND STRUCTURAL DWG. NO. S-102.
4. THE RELATIONSHIP BETWEEN U.S.C. & G.S. DATUM AND THE VARIOUS DATUM PLANE COMMON TO THE WASHINGTON, D. C. AREA ARE AS FOLLOWS:

	ELEVATION RELATIVE TO PROJECT DATUM (FEET)	
ABOVE PROJECT DATUM	0.94	WASHINGTON AQUEDUCT AND FILTRATION PLANTS (P.A.C.)
	0.70	DISTRICT OF COLUMBIA ENGINEERING DEPARTMENT POTOMAC ELECTRIC POWER COMPANY WASHINGTON GAS LIGHT COMPANY C & P TELEPHONE COMPANY D. C. ENGINEERING DEPARTMENT
	0.57	PENNSYLVANIA RAILROAD
	0.00	PROJECT DATUM - SEA LEVEL DATUM (1929 GENERAL ADJUSTMENT)
BELOW PROJECT DATUM		U.S. COAST AND GEODETIC SURVEY U.S. GEOLOGICAL SURVEY NAVAL RESEARCH LABORATORY (BELLEVUE) R.F. & P. RAILROAD B & O RAILROAD (ALEXANDRIA BRANCH) ARLINGTON COUNTY
	0.15	SEA LEVEL DATUM (1912 GENERAL ADJUSTMENT) WASHINGTON SUBURBAN SANITARY COMMISSION MONTGOMERY COUNTY
	1.41	LOW WATER DATUM - WASHINGTON HARBOR (L.W.D.) BALTIMORE DISTRICT, CORPS OF ENGINEERS (EXCEPT WASHINGTON AQUEDUCT) NATIONAL PARK SERVICE PUBLIC ROADS ADMINISTRATION WASHINGTON NATIONAL AIRPORT
	1.63	BOLLING AIR FORCE BASE
	4.50	NAVAL GUN FACTORY
	4.70	ANACOSTIA NAVAL AIR STATION

NOTE: THE WASHINGTON SUBURBAN SANITARY COMMISSION AND MONTGOMERY COUNTY ALSO USE SEA LEVEL DATUM (1929 GENERAL ADJUSTMENT) IN SOME AREAS.

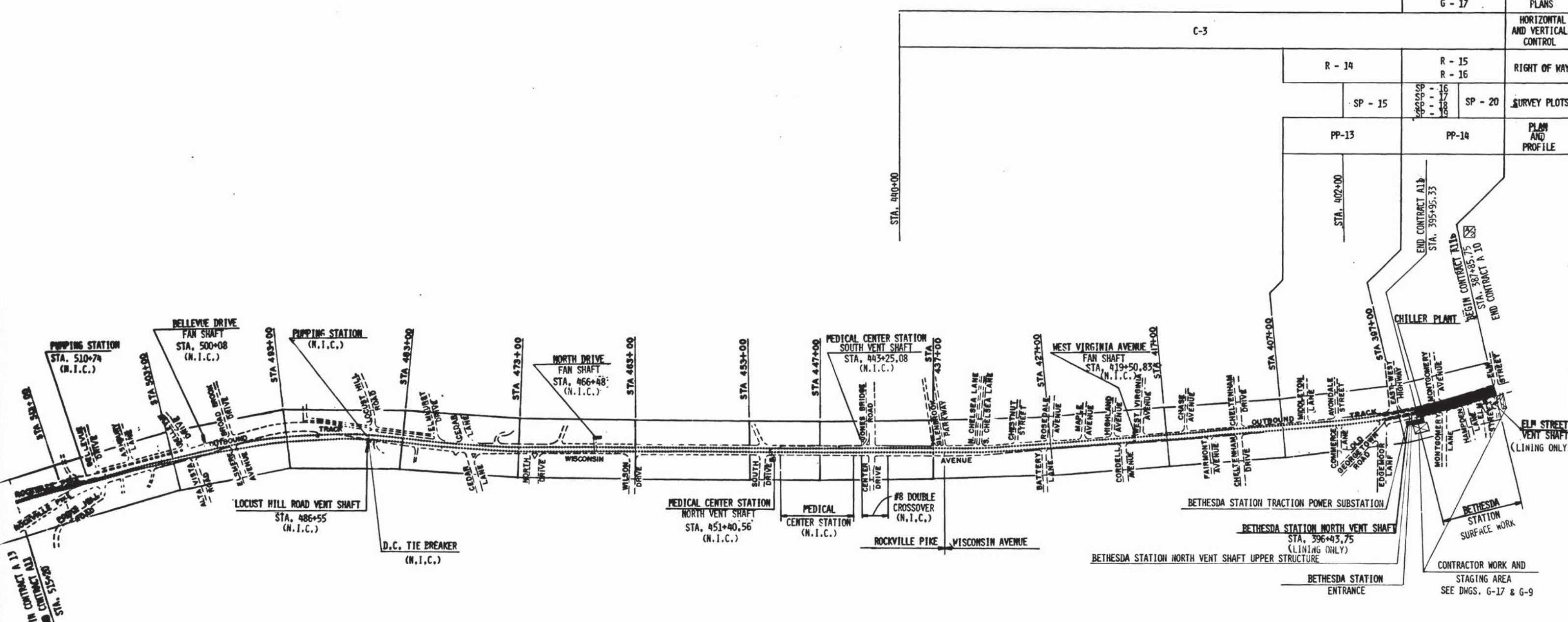
5. STATIONING SHOWN ON THE DRAWINGS ARE ALONG CENTER LINES OF OUTBOUND AND INBOUND TRACKS.

ABBREVIATIONS - VERTICAL ALIGNMENT

V.C.	VERTICAL CURVE LENGTH
P.V.C.	BEGINNING POINT OF VERTICAL CURVE
P.V.T.	END POINT OF VERTICAL CURVE
P.V.I.	POINT OF INTERSECTION OF VERTICAL TANGENTS
P.O.	MID ORDINATE

DESIGNED J.B.V. DIGSON 01-8-73 DRAWN J.A.D. KERLEY 01-10-73 CHECKED A.B. WESAND 01-10-73 APPROVED [Signature] 5-14-77	REFERENCE DRAWINGS NUMBER DESCRIPTION DATE BY DESCRIPTION	REVISIONS NUMBER DESCRIPTION DATE BY DESCRIPTION		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY MATHEWS • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER SUBMITTED [Signature] DATE 2-2-77	DE LEUW, CATHAR & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT APPROVED [Signature]	ROCKVILLE ROUTE GENERAL NOTES, ABBREVIATIONS AND SYMBOLS SCALE NOT TO SCALE DRAWING NO. A11b-G-8 M276-8
--	---	--	--	---	---	--

6-9	WORK AREA PLANS
6-17	HORIZONTAL AND VERTICAL CONTROL
R-14	RIGHT OF WAY
R-15	
R-16	
SP-15	SURVEY PLOTS
SP-16	
SP-17	
SP-18	
SP-20	
PP-13	PLAN AND PROFILE
PP-14	



LEGEND:
 ----- EXISTING STRUCTURES (N.I.C.)
 ■■■■■ STRUCTURES INCLUDED IN THIS CONTRACT

DESIGNED		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	
08-12-78	A.B. WIEGAND				
04-10-79	J.L. BISHOP	7/11/77	JLB	REVISED STATION AT BEGINNING OF CONTRACT	1
08-09-78	A.B. WIEGAND				
5-12-77	J.S. HANSEN				



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS
SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

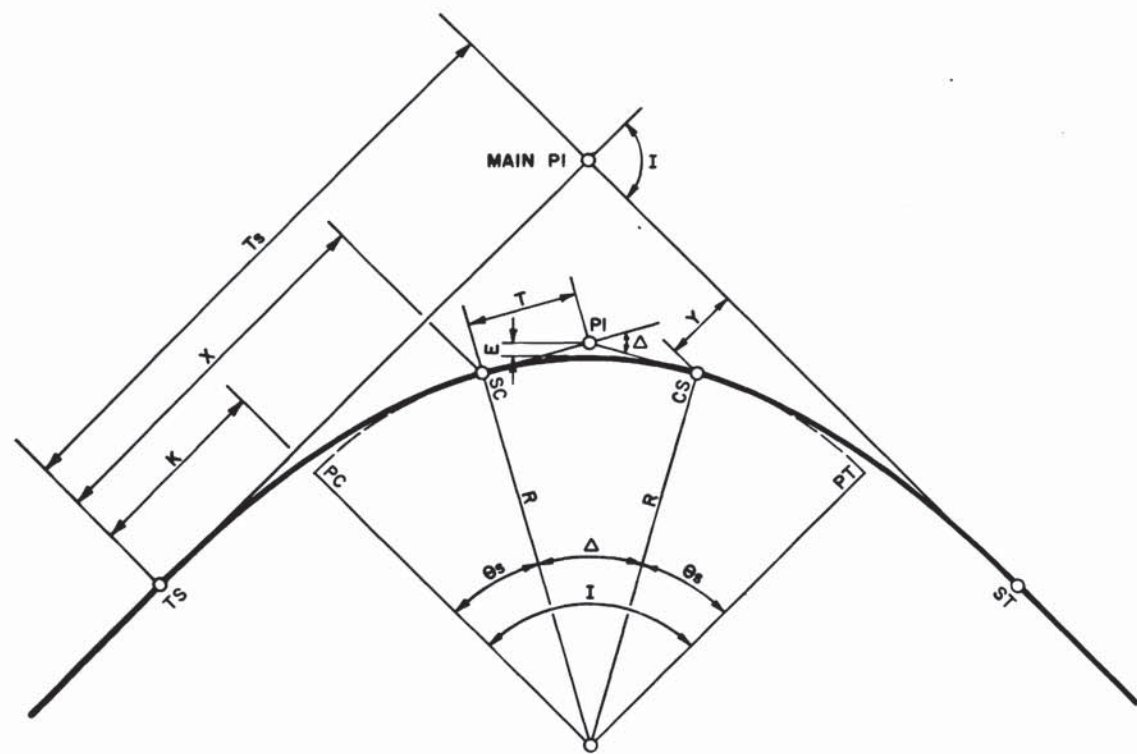
SUBMITTED *[Signature]* DATE 05-13-77 APPROVED *[Signature]*

ROCKVILLE ROUTE
KEY PLAN OF CIVIL DRAWINGS

SCALE: 1" = 400'

DRAWING NO. **A11b-G-7**

M276-7



SPIRAL TRANSITION CURVES

THE SPIRAL USED SHALL BE THE BARNETT SPIRAL.

SUPERELEVATION

E_a = ACTUAL SUPERELEVATION
 E_u = UNBALANCED SUPERELEVATION
 ACTUAL SUPERELEVATION (E_a) WILL BE ATTAINED AND REMOVED LINEARLY THROUGHOUT THE FULL LENGTH OF THE SPIRAL TRANSITION CURVE.

L_s = LENGTH OF SPIRAL

$$\theta_s = \frac{L_s D_c}{200}$$

$$X = L_s \left(1 - \frac{6s^2}{10} + \frac{6s^4}{216} - \frac{6s^6}{9360} + \frac{6s^8}{685440} - \frac{6s^{10}}{76204800} + \frac{6s^{12}}{11975040000} \right)$$

$$Y = L_s \left(\frac{6s}{3} - \frac{6s^3}{42} + \frac{6s^5}{1320} - \frac{6s^7}{75600} + \frac{6s^9}{6894720} - \frac{6s^{11}}{91808640} + \frac{6s^{13}}{168129561600} \right)$$

$$T_s = \text{TANGENT LENGTH FROM T.S. TO MAIN P.I.} = (R+P) \tan \frac{I}{2} + K$$

$$P = Y - R(1 - \cos \theta_s)$$

$$K = X - R \sin \theta_s$$

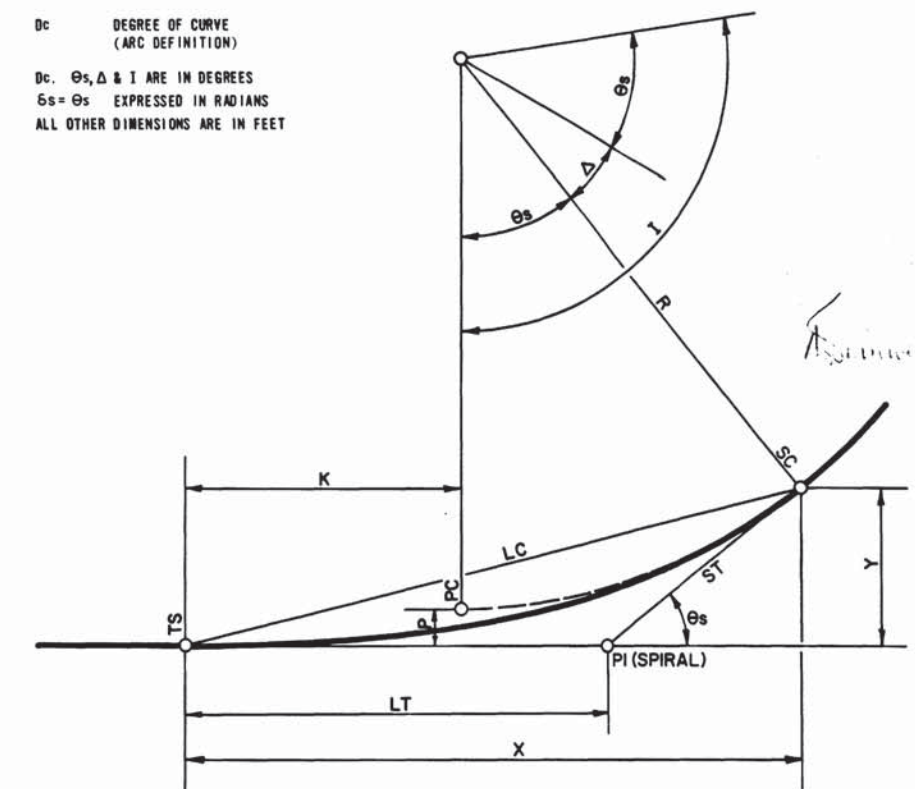
$$ST = Y / \sin \theta_s$$

$$LT = X - Y / \tan \theta_s$$

$$LC = \sqrt{X^2 + Y^2}$$

D_c = DEGREE OF CURVE (ARC DEFINITION)

D_c, θ_s, Δ & I ARE IN DEGREES
 $6s = \theta_s$ EXPRESSED IN RADIAN
 ALL OTHER DIMENSIONS ARE IN FEET



CIRCULAR CURVES

CIRCULAR CURVES ARE DEFINED BY THE ARC DEFINITION OF CURVATURE, AND SPECIFIED BY THEIR RADIUS.

- I TOTAL INTERSECTION ANGLE
- θ_s SPIRAL ANGLE = $\frac{L_s D_c}{200}$
- Δ CENTRAL ANGLE OF CIRCULAR CURVE = $I - 2\theta_s$
- R RADIUS OF CIRCULAR CURVE
- T TANGENT LENGTH OF CIRCULAR CURVE = $R \tan \frac{\Delta}{2}$
- L LENGTH OF CIRCULAR CURVE = $\frac{\Delta}{180} \pi R$
- E EXTERNAL DISTANCE = $R \text{ EXSEC } \frac{\Delta}{2}$
- P.C. POINT OF CURVE
- P.T. POINT OF TANGENCY
- T.S. TANGENT SPIRAL
- S.C. SPIRAL CURVE
- C.S. CURVE SPIRAL
- S.T. SPIRAL TANGENT
- P.I. POINT OF INTERSECTION

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
KAFKA	1/7/70			1-6-70		1] REVISED TITLE BLOCK
LUCAS DILLARD	1/20/71			7-19-71		2] REVISED SUPERELEVATION
Checked						
APPROVED						



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA

APPROVED: *[Signature]*
 ACTING DIRECTOR OF ENGINEERING

APPROVED: *[Signature]*
 CHIEF OF ENGINEERING AND OPERATIONS

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

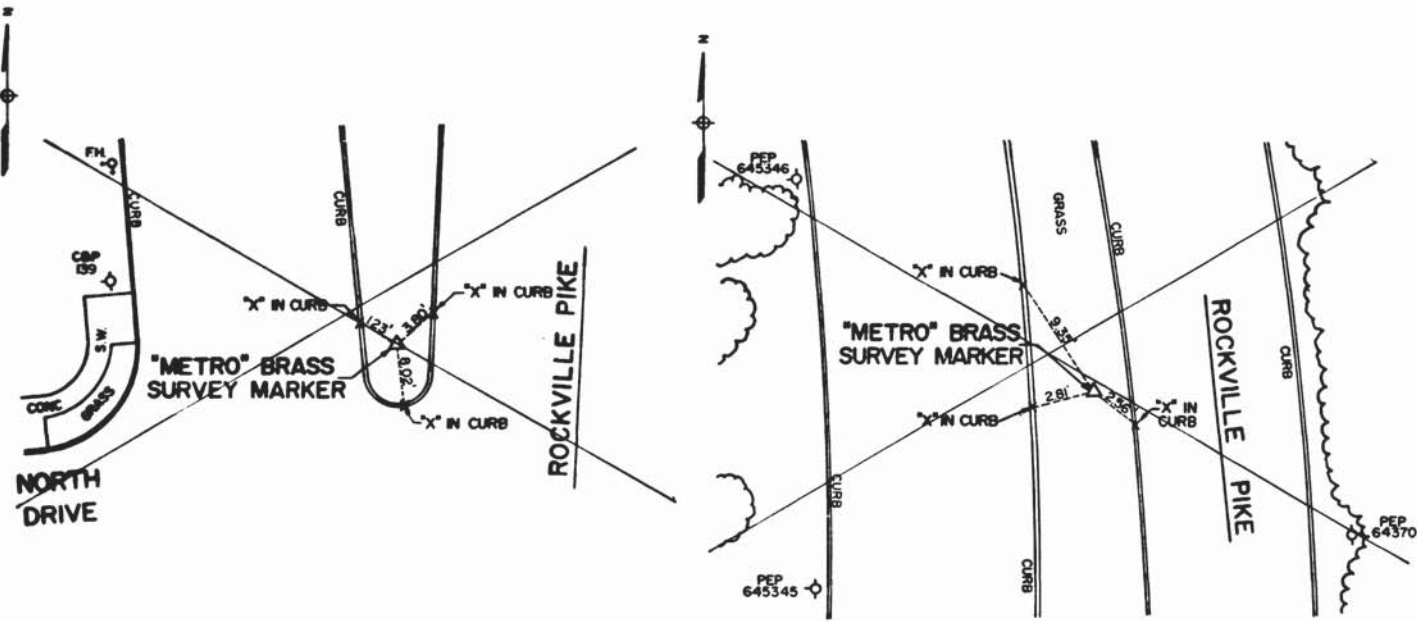
HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

METRO HORIZONTAL CURVES

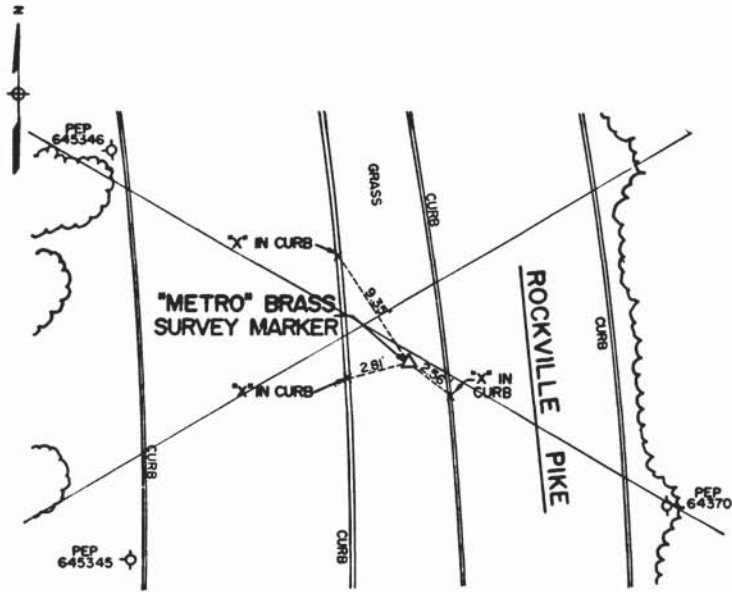
SCALE: NOT TO SCALE

DRAWING NO. ST-C-2

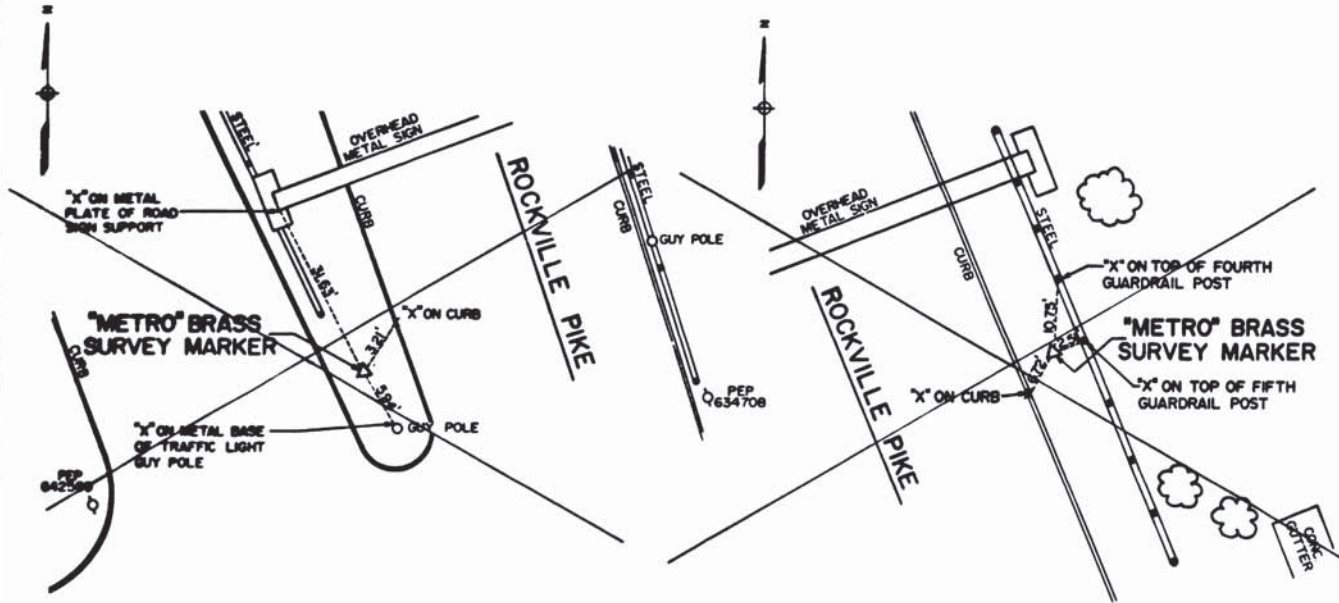
M276-19



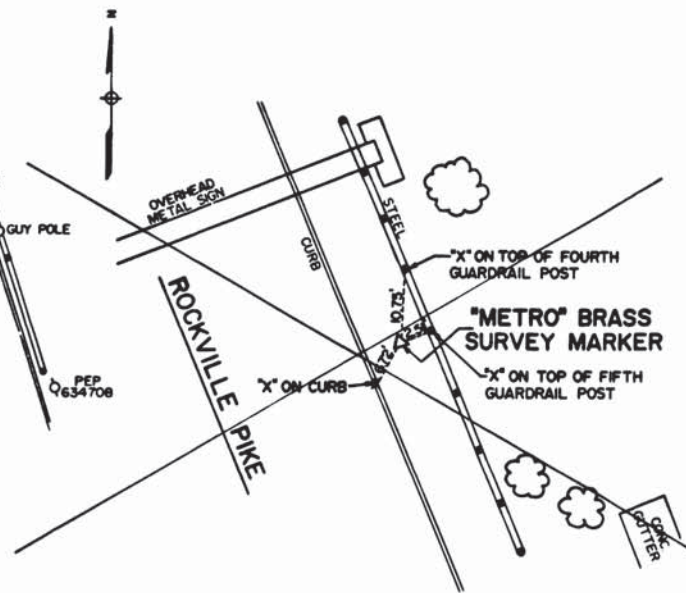
A-27



A-28



A-29



A-30

BENCH MARKS

NUMBER	ELEV	DESCRIPTION
A-19	341.300	BRASS SURVEY MARKER SET IN CONCRETE OF SOUTH MEDIAN ON WISCONSIN AVENUE AT THE INTERSECTION OF LELAND AVENUE.
A-20	349.822	BRASS SURVEY MARKER SET IN WEST CURB OF THE MEDIAN ON WISCONSIN AVENUE NEAR BUILDING NUMBER 7221.
A-21	352.077	BRASS SURVEY MARKER SET IN WEST CONCRETE MEDIAN ON OLD GEORGETOWN ROAD—AT THE INTERSECTION OF WISCONSIN AVENUE.
A-22	352.677	BRASS SURVEY MARKER SET IN THE CONCRETE SIDEWALK ON THE WEST SIDE OF WISCONSIN AVENUE NEAR THE RALPH BROWN BUICK SHOWROOM.
A-23	354.335	BRASS SURVEY MARKER SET IN THE CONCRETE SIDEWALK ON THE WEST SIDE OF WISCONSIN AVENUE NEAR BUILDING NUMBER 7942.
A-24	332.550	BRASS SURVEY MARKER SET IN THE CONCRETE SIDEWALK ON THE WEST SIDE OF WISCONSIN AVENUE NEAR THE GOVERNOR'S HOUSE MOTEL.
A-25	317.077	BRASS SURVEY MARKER SET IN THE SOUTH CONCRETE MEDIAN ON WISCONSIN AVENUE AT THE INTERSECTION OF JONES BRIDGE ROAD.
A-26	321.600	BRASS SURVEY MARKER SET IN THE NORTH CONCRETE MEDIAN ON WISCONSIN AVENUE AT THE INTERSECTION OF SOUTH DRIVE AND THE MAIN ENTRANCE TO THE BETHESDA NAVAL MEDICAL CENTER.
A-27	252.789	PLASTIC MONUMENT WITH BRASS SURVEY MARKER SET IN THE GRASS MEDIAN ON WISCONSIN AVENUE AT THE INTERSECTION OF NORTH DRIVE
A-28	281.921	PLASTIC MONUMENT WITH BRASS SURVEY MARKER SET IN THE GRASS MEDIAN ON WISCONSIN AVENUE NEAR PEPOR POLE NUMBER 645346.
A-29	235.348	PLASTIC MONUMENT WITH BRASS SURVEY MARKER SET IN THE GRASS MEDIAN ON WISCONSIN AVENUE AT THE INTERSECTION OF POKES HILL ROAD
A-30	242.936	PLASTIC MONUMENT WITH BRASS SURVEY MARKER SET IN THE GRASS ALONG THE EAST SIDE OF THE NORTHBOUND LANE OF ROCKVILLE PIKE NEAR THE INTERSECTION OF THE ACCESS RAMP FROM THE CAPITAL BELTWAY.

CONTROL POINT COORDINATES

POINT	COORDINATES	
	NORTH	EAST
A-19	417567.800	773779.039
A-20	418219.8210	773523.7236
A-21	419358.1243	773117.1309
A-22	420048.2914	772986.1416
A-23	421393.7537	772763.6941
A-24	422457.4605	772591.3709
A-25	423687.6849	772492.9356
A-26	424740.5241	772419.6415
A-27	426699.2383	772254.3779
A-28	428650.8522	772277.8696
A-29	430379.5745	771607.2926
A-30	431470.1684	771221.1751

N.I.C.

- NOTES**
- HORIZONTAL CONTROL: METRO PROJECT COORDINATES
 - ALL GRID COORDINATES AND HORIZONTAL CONTROL VALUES ARE BASED ON THE 1971 FIELD GEOGRAPHIC POSITIONS FOR U.S.C. & G.S. (NOW NATIONAL GEODETIC SURVEY) TRIANGULATION STATIONS "WASHINGTON 1969" AND "PAVILLION 1969". THE FINAL 1974 ADJUSTMENT SIGNIFICANTLY CHANGED THE COORDINATES OF THESE STATIONS. THIS ADJUSTMENT IS NOT REFLECTED ON THESE DRAWINGS
 - VERTICAL CONTROL: U.S.C. & G.S. MEAN SEA LEVEL (1929 ADJUSTMENT)
 - TO CONVERT PROJECT COORDINATES TO MARYLAND STATE PLANE COORDINATES MULTIPLY THE PROJECT COORDINATES BY THE CONVERSION FACTOR OF 0.9999430.



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS BUILT CONDITION
 BY: [Signature]
 DATE: []



DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
H. STORER	11-14-73			7/11/77	MFC	DELETED & ADDED BENCH MARKS & COORD.
P. STAMER	11-14-73			7/30/82	HN	REVISED PER FIELD CONDITION AS BUILT
J.B.V. JOHNSON	8-8-79					



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
 ENGINEERS AND ARCHITECTS
 SECTION DESIGNER

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

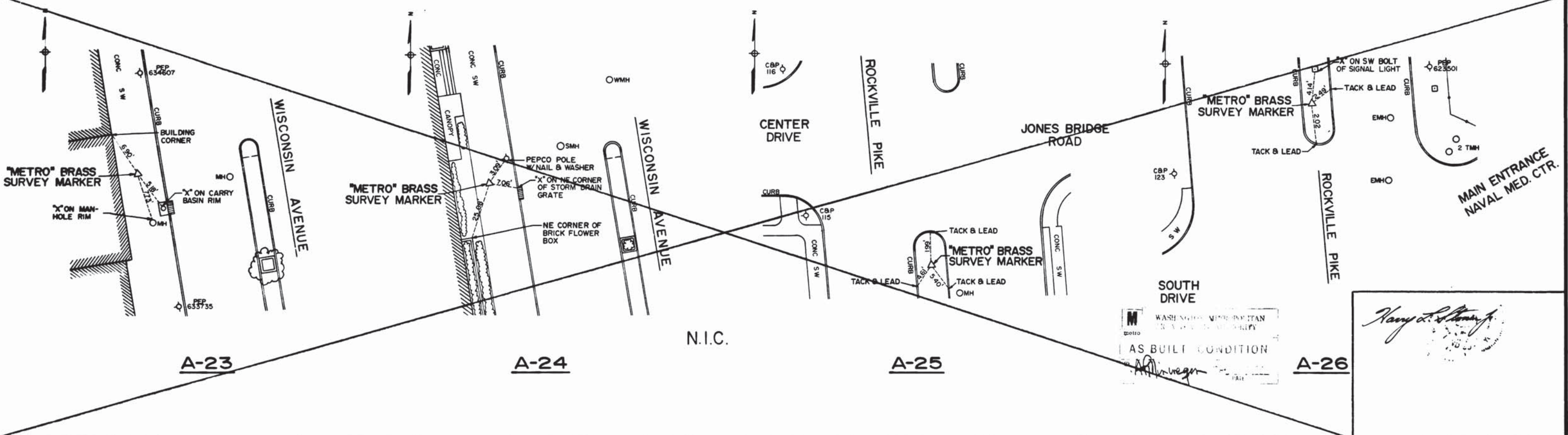
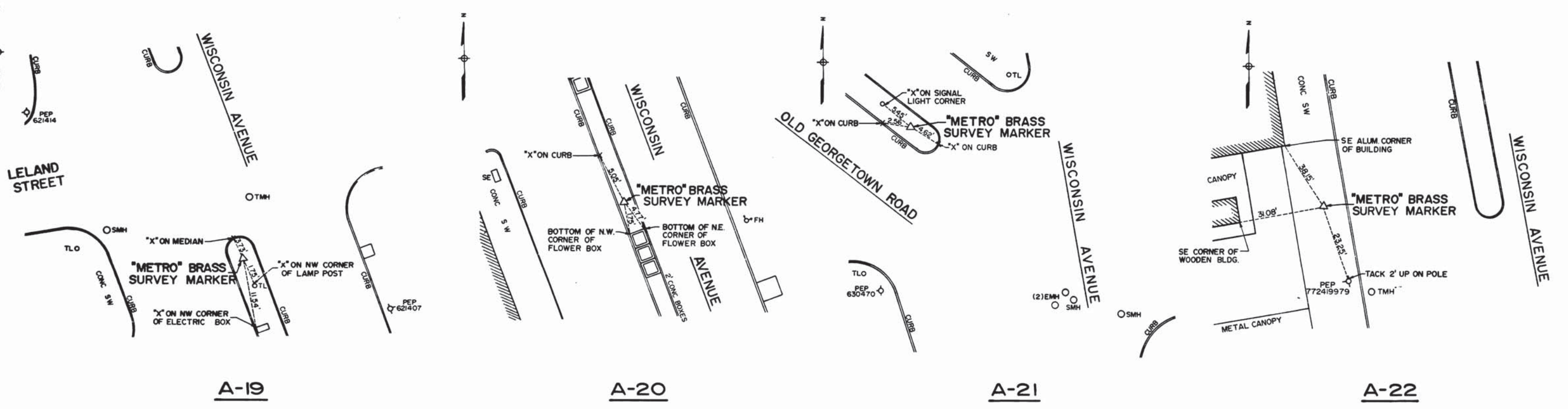
HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT


SUBMITTED: [Signature] DATE: 2-2-77 APPROVED: [Signature]

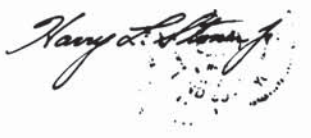
ROCKVILLE ROUTE HORIZONTAL AND VERTICAL CONTROL TIES TO HORIZONTAL CONTROL POINTS

NOT TO SCALE

DRAWING NO. A11b-C-5 M276-18




 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS BUILT CONDITION
 [Signature]

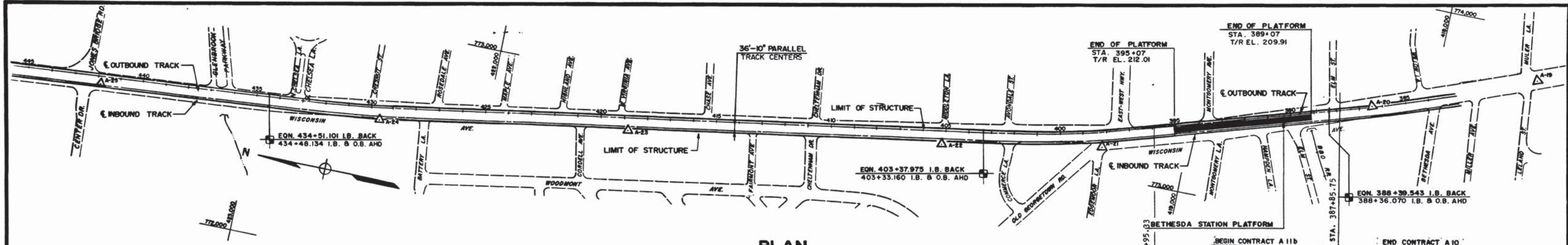

 Harry Weese
 REGISTERED PROFESSIONAL ENGINEER

DESIGNED		DATE		REFERENCE DRAWINGS				REVISIONS					
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1	H. STONER	11-14-73											
2	P. STANIER	11-14-73											
3	J.R.V. DICKSON	8-8-79											
4	[Signature]												

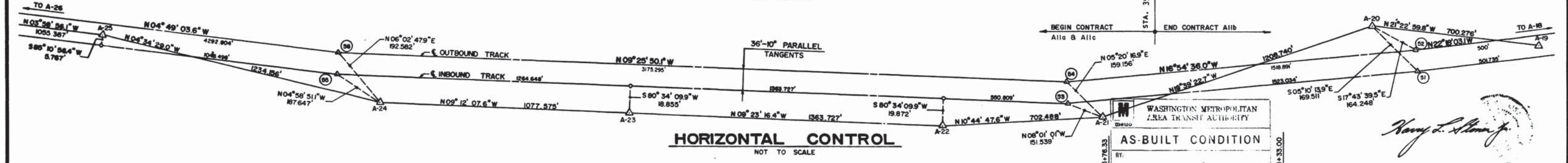


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 MATHEWS • CHATELAIN • BEALL
 ENGINEERS AND ARCHITECTS
 SECTION DESIGNER
 SUBMITTED: [Signature] DATE: 01-3-77
 APPROVED: [Signature]

ROCKVILLE ROUTE
 HORIZONTAL AND VERTICAL CONTROL
 TIES TO HORIZONTAL CONTROL POINTS
 SCALE: NOT TO SCALE
 DRAWING NO.: A11b-C-4
 M276-17



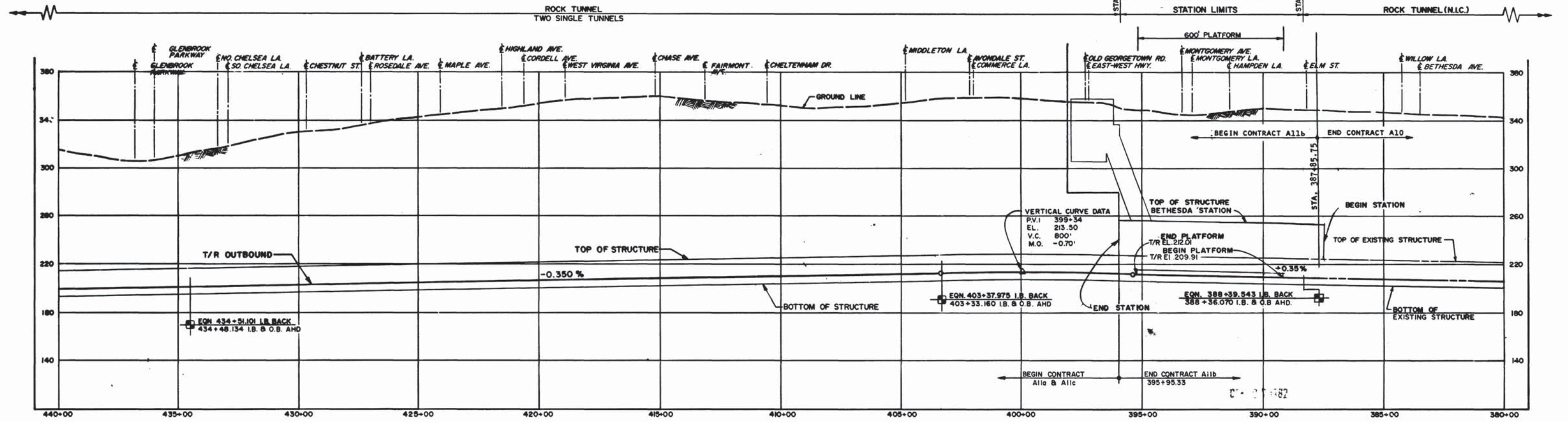
PLAN



HORIZONTAL CONTROL
NOT TO SCALE

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
AS-BUILT CONDITION
 BY: _____ DATE: _____
 RESIDENT ENGINEER

Nancy L. Stoner



PROFILE

DESIGNED	H. STONER	11-14-73
DRAWN	P. STANIER	11-14-73
CHECKED	J.R.V. DICKSON	9-8-74
APPROVED	<i>[Signature]</i>	5-14-82

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS		
DATE	BY	DESCRIPTION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
 ENGINEERS AND ARCHITECTS
 SECTION DESIGNER

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

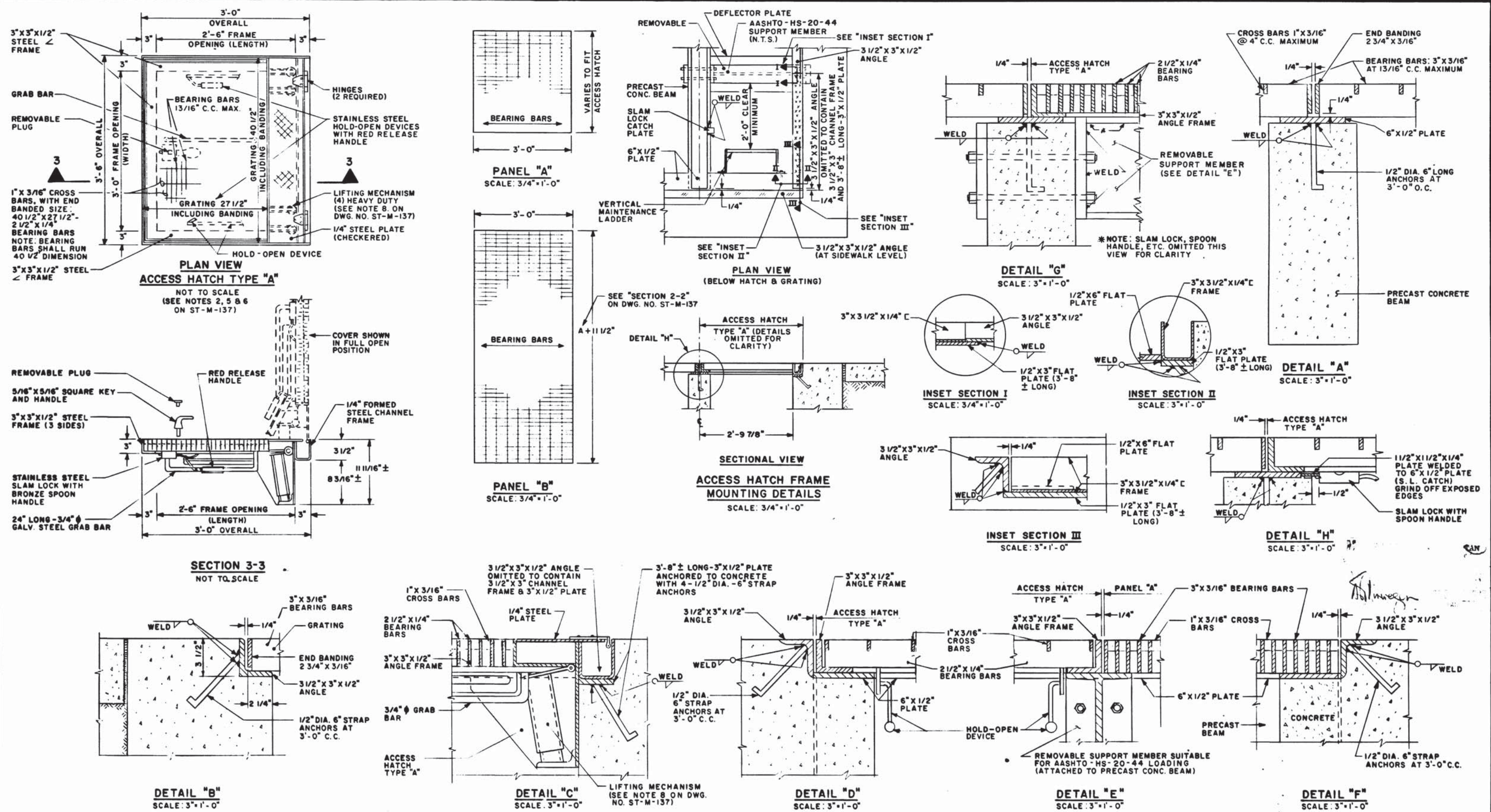
HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *[Signature]* DATE 07-12-77 APPROVED *[Signature]*

ROCKVILLE ROUTE
 HORIZONTAL AND VERTICAL CONTROL
 STA 440+00 TO STA 380+00

SCALE
 HORIZ. 1" = 200'
 VERT. 1" = 40'

DRAWING NO. A11b-C-3 M276-16



THIS DRAWING SUPERSEDES DRAWING NO. ST-M-9

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
ST-M-137	FRAMES AND GRATINGS	3/15/78	PEASLEY	ST-M-9	REDRAWN		
ST-S-4	DRAINAGE AND VENTILATION STRUCTURES						
	TYPICAL DETAILS AND REINFORCEMENT						



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED: *[Signature]* 10/28/76
 DIRECTOR OF ENGINEERING

APPROVED: *[Signature]* Nov 1, 1976
 CHIEF OF DESIGN AND CONSTRUCTION

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEISE & ASSOCIATES
 GENERAL ARCHITECTURE CONSULTANT

MECHANICAL STANDARD DRAWING

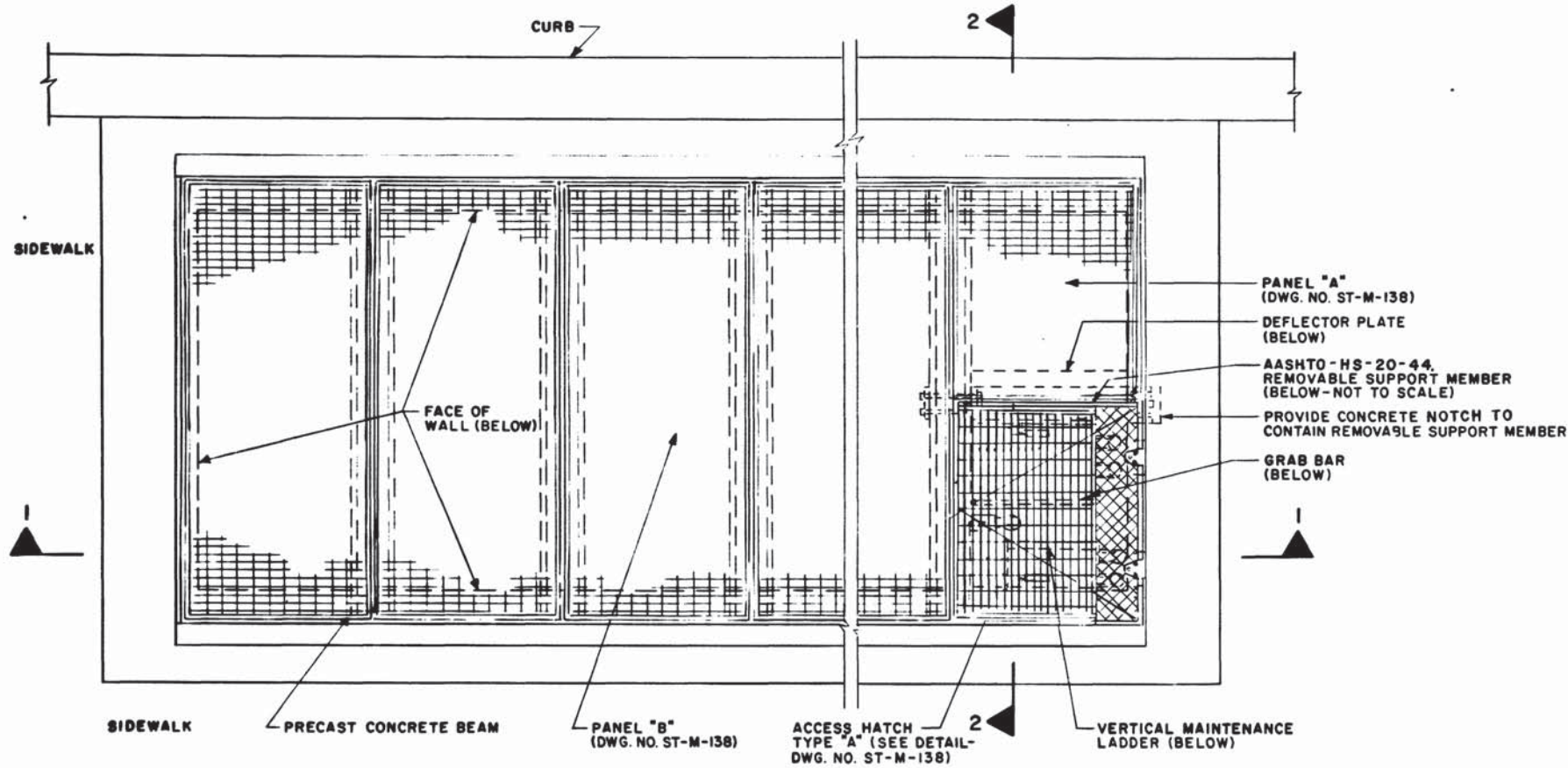
FRAMES AND GRATINGS SHT. 2

SECTION NO. A11b

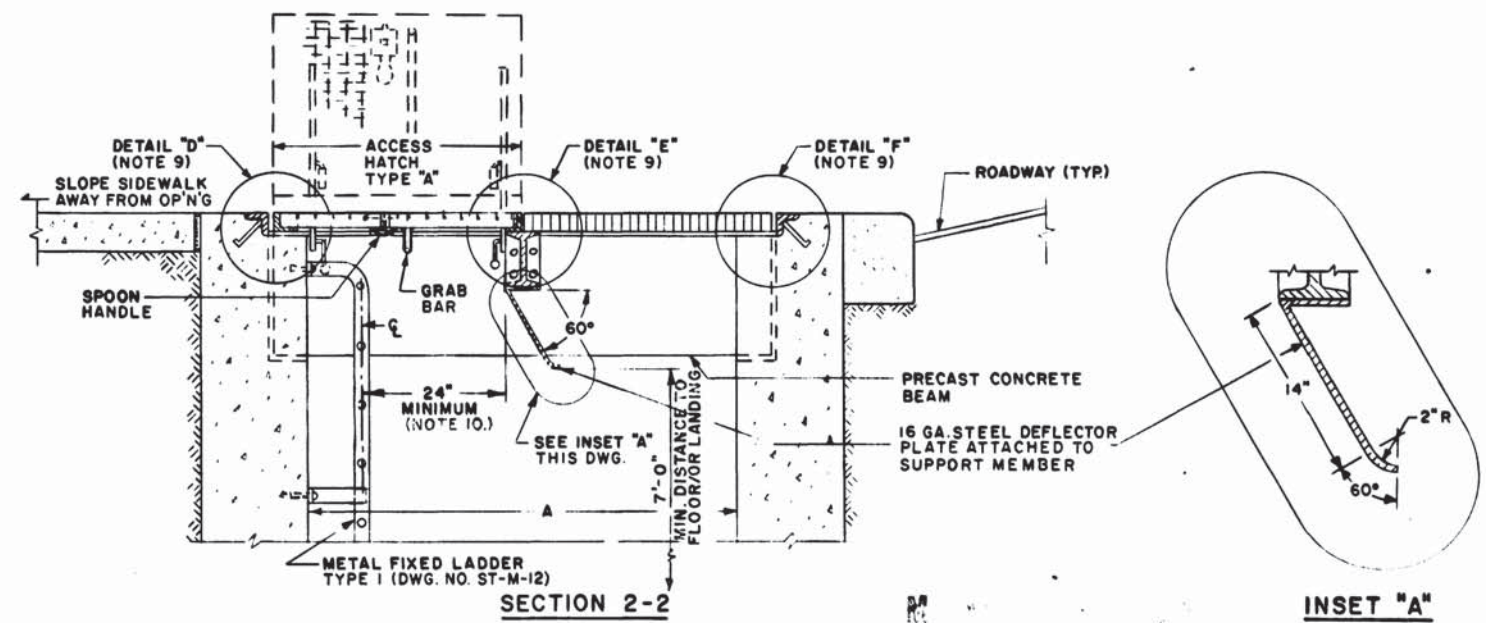
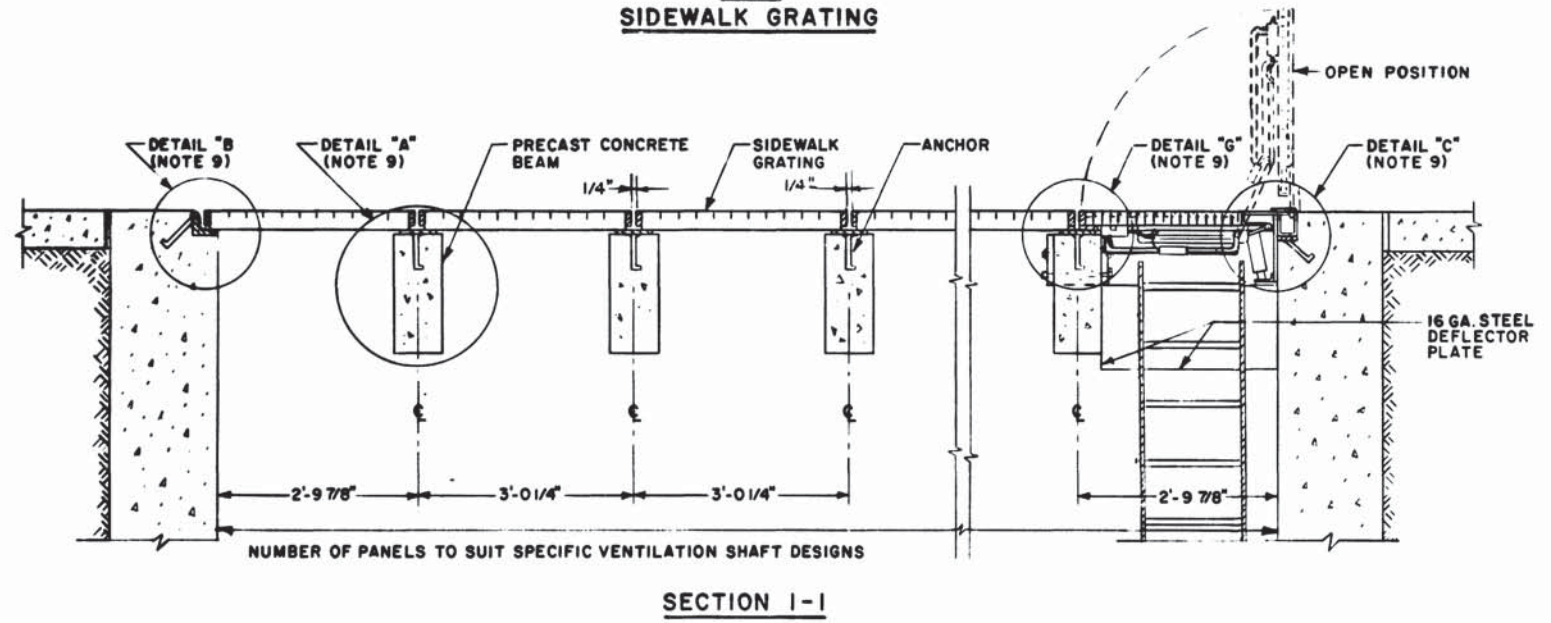
SCALE: AS NOTED

DRAWING NO. ST-M-138

M276-226



- GENERAL NOTES**
1. FOR ARRANGEMENT OF PANELS SEE SHAFT DRAWINGS.
 2. ALL PANELS (AND ACCESS HATCH TYPE "A") SHALL BE TACK WELDED WITH A MINIMUM OF 3'-1" LONG WELDS PER PANEL (OR HATCH).
 3. FOR DETAILS OF PRECAST CONCRETE BEAMS SEE STRUCTURAL DRAWING NO. ST-S-4.
 4. PRECAST BEAMS TO BE REMOVABLE FOR EQUIPMENT INSTALLATION.
 5. ACCESS HATCH TYPE "A" WITH 3'-6" X 3'-0" OPENING IS FOR MAINTENANCE ACCESS ONLY.
 6. INSTALLER NOTE: BE CAREFUL NOT TO RACK OR TWIST FRAME WHEN SETTING. CLOSE HATCH COVER AND BE SURE IT RESTS ON FRAME ALL AROUND. SHIM AS REQUIRED.
 7. SIAMESE FIRE DEPARTMENT CONNECTION NOT SHOWN DUE TO MANY VARIATIONS IN LOCATIONS AND ORIENTATION.
 8. NOTE FOR ACCESS HATCH TYPE "A": HARDWARE SHALL INCORPORATE HEAVY DUTY HELICAL SPRING OPERATORS AND HOUSINGS OF STAINLESS STEEL WHICH WILL PROVIDE CONSISTENT AND RELIABLE EASE OF OPENING AND CLOSING THROUGH THE ENTIRE ARC OF SWING, AND A CUSHIONING EFFECT WHILE RETARDING THE DOWNWARD MOTION OF THE DOORS. A VERTICAL FORCE OF LESS THAN 30 POUNDS SHALL START HATCH OPENING.
 9. FOR "DETAILS A THRU G" REFER TO DRAWING NO. ST-M-138.
 10. CONTRACTOR SHALL INSURE THAT NO FIRE LINES, INTRUSION ALARMS, ETC. ENCROACH ON THE 24" MINIMUM CLEARANCE SHOWN THIS DWG.
 11. STEEL TO BE A36 GALVANIZED OR HIGH-STRENGTH CORROSION-RESISTANT STEEL.



THIS DRAWING SUPERSEDES DRAWING NO. ST-M-9

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
ST-M-138	FRAMES AND GRATINGS SHT. 2	2/15/76	P. EASLEY	ST-M-9	REDRAWN		
ST-S-4	DRAINAGE AND VENTILATION STRUCTURES TYPICAL DETAILS AND REINFORCEMENT						
ST-M-12	STAIRS, LADDERS, & HANDRAILS						



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED: *Robert S. Grier* 1/28/76
DIRECTOR OF ENGINEERING

APPROVED: *Harold W. Lane* Nov 1, 1976
CHIEF OF DESIGN AND CONSTRUCTION

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

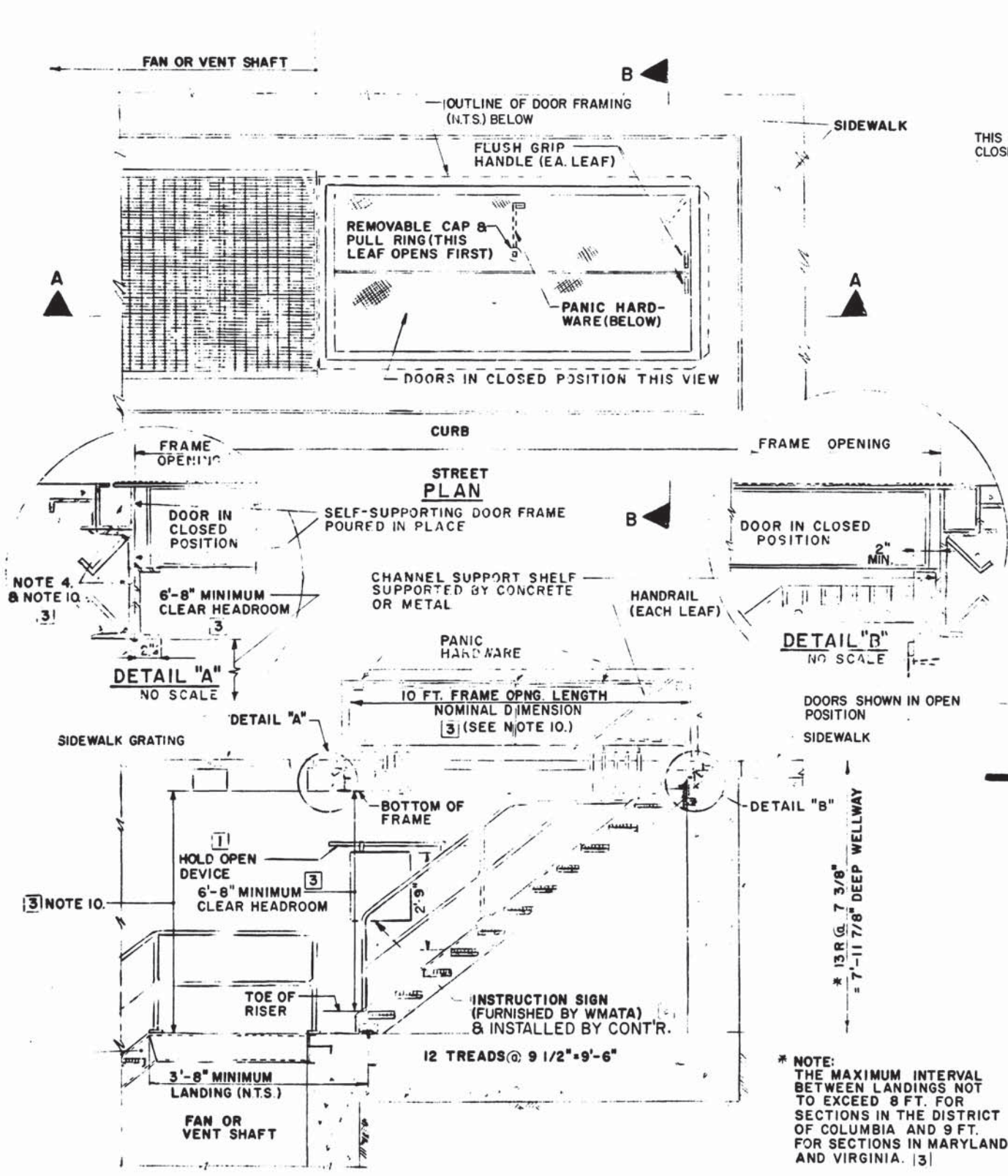
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

MECHANICAL STANDARD DRAWING

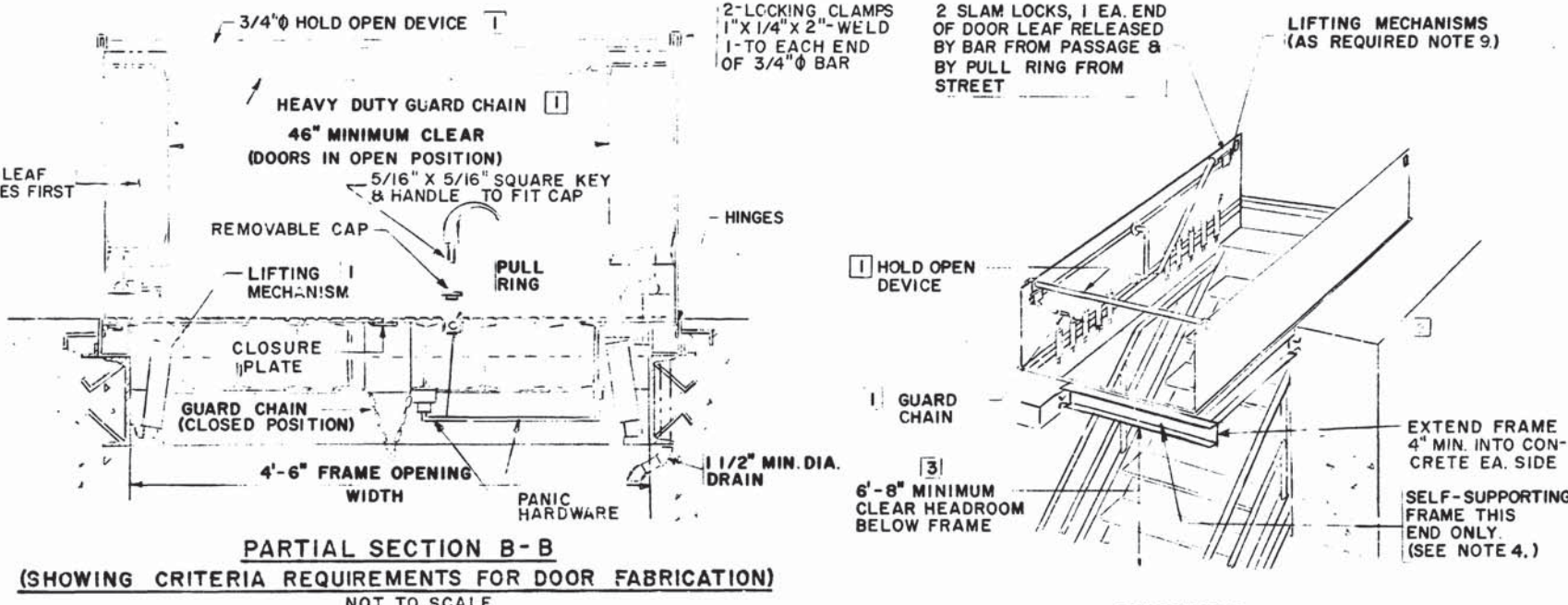
FRAMES AND GRATINGS SHT. 1
SECTION NO. A11b

SCALE: 3/4" = 1'-0"

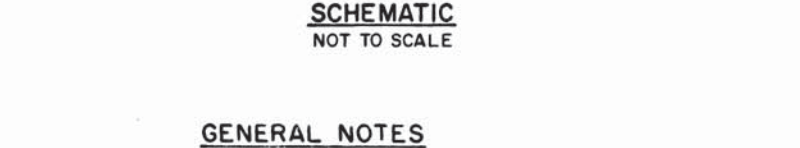
DRAWING NO. ST-M-137 M276-225



SECTION A-A



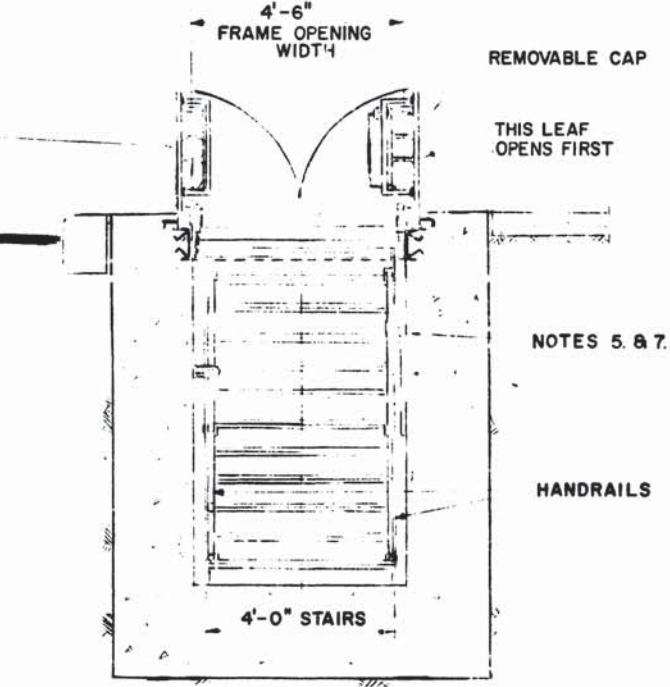
PARTIAL SECTION B-B
(SHOWING CRITERIA REQUIREMENTS FOR DOOR FABRICATION)
NOT TO SCALE



SCHEMATIC
NOT TO SCALE

GENERAL NOTES

1. DOOR FRAME SHALL BE FITTED WITHOUT WARPAGE.
2. DELETED
3. WHERE EMERGENCY ACCESS SHAFTS ARE SITUATED IN THE VICINITY OF CURB, STREET, AND SIDEWALK (ILLUSTRATED THIS DRAWING) DOOR REINFORCEMENT, HINGES, ETC. SHALL BE AS NECESSARY FOR AASHO HS-20-44 LOADING.
4. THE DOOR FRAME FOR THIS SIDE SHALL BE STRUCTURALLY SELF-SUPPORTING AS NECESSARY FOR AASHO HS-20-44 LOADING.
5. HOLD OPEN DEVICE SHALL BE PAINTED WITH WHITE ENAMEL WITH THE INSCRIPTION "Positive Locking Bar" PAINTED IN RED 72 PT. HELVETICA MEDIUM LETTERING ON 2 SIDES OF BAR.
6. DELETED
7. PROVIDE STORAGE FOR HOLD OPEN DEVICE AND INSTRUCTION SIGN IN A CONSPICUOUS AND WELL-ILLUMINATED POSITION.
8. SET UNIT WITH SLIGHT PITCH TOWARD DRAIN.
9. HARDWARE SHALL INCORPORATE HEAVY DUTY HELICAL SPRING OPERATORS AND HOUSINGS OF STAINLESS STEEL WHICH WILL PROVIDE CONSISTENT AND RELIABLE EASE OF OPENING AND CLOSING THROUGH THE ENTIRE ARC OF SWING, AND A CUSHIONING EFFECT WHILE RETURNING THE DOWNWARD MOTION OF THE DOORS. A VERTICAL FORCE OF LESS THAN 30 POUNDS SHALL START OPENING.
10. THE DEPTH OF SELF-SUPPORTING DOOR FRAME SHALL BE COORDINATED WITH THE DOOR LENGTH (10 FT. NOMINAL) AND THE RISE AND TREAD OF STAIRS TO MAINTAIN A MINIMUM HEADROOM OF 6'-8" THROUGHOUT ENTIRE PATH OF EGRESS.



SECTION B-B

DESIGNED M. D. SULLIVAN 5/5/72
DATE
DRAWN G. I. HARRISON 9/20/72
DATE
CHECKED [Signature] 4-13-72
DATE
APPROVED [Signature]

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
ST-M-12	STAIRS, LADDERS & HANDRAILS	1-20-72	[Signature]	TERMINOLOGY AGREE WITH STD. SPECS. (1)
ST-M-9	FRAMES AND GRATINGS	8-7-75	[Signature]	DELETED STANDPIPE I.D. PLATE (2)
		8-23-76	[Signature]	CLARIFIED HEADROOM & EXPANDED ON LANDING INTERVAL REQUIREMENTS, DELETED NOTE 2 (3)

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED _____ DIRECTOR OF ENGINEERING

APPROVED _____ CHIEF OF DESIGN AND CONSTRUCTION

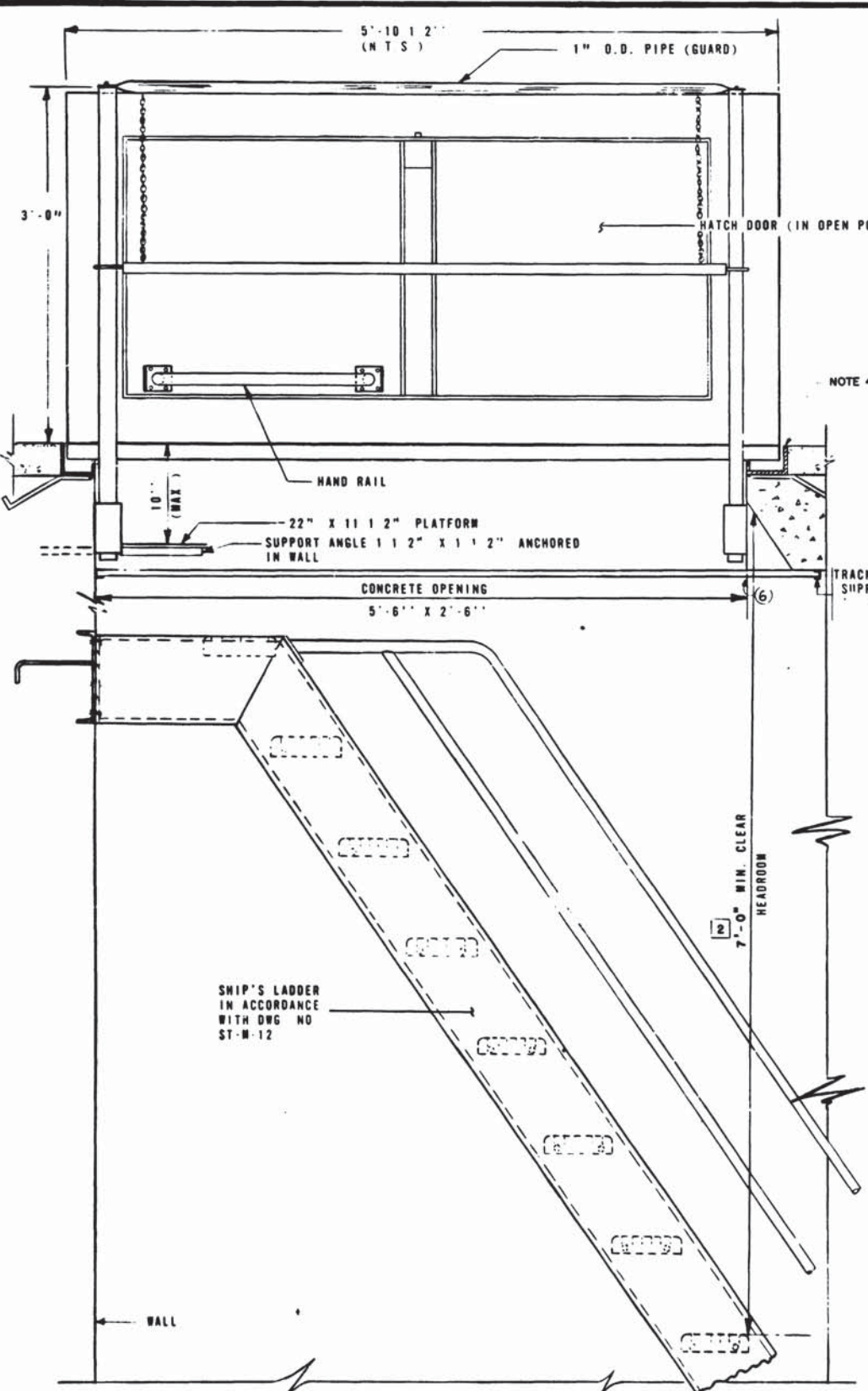
DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

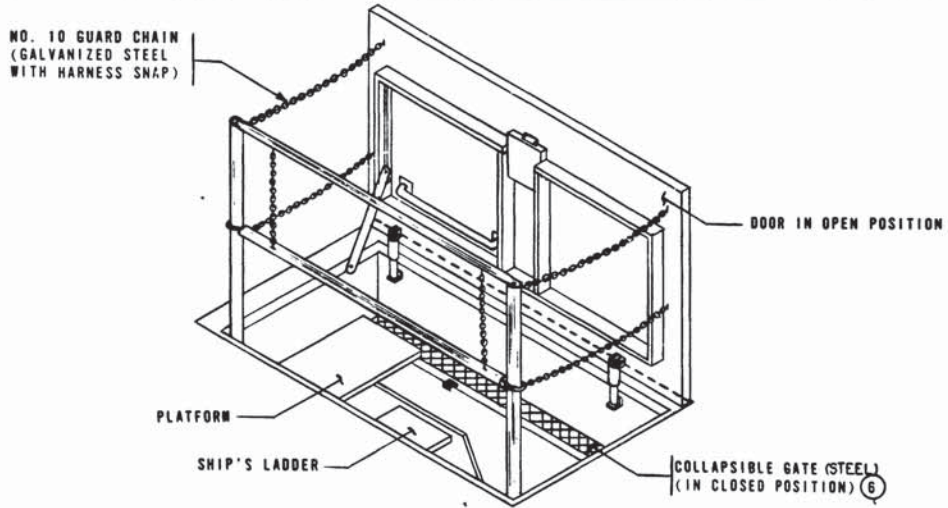
MECHANICAL STANDARD DRAWING
ACCESS DOOR AND STAIR ARRANGEMENT
FOR PASSENGER EMERGENCY EXIT
SECTION NO. A11b

SCALE 1/2" = 1'-0" AND AS NOTED

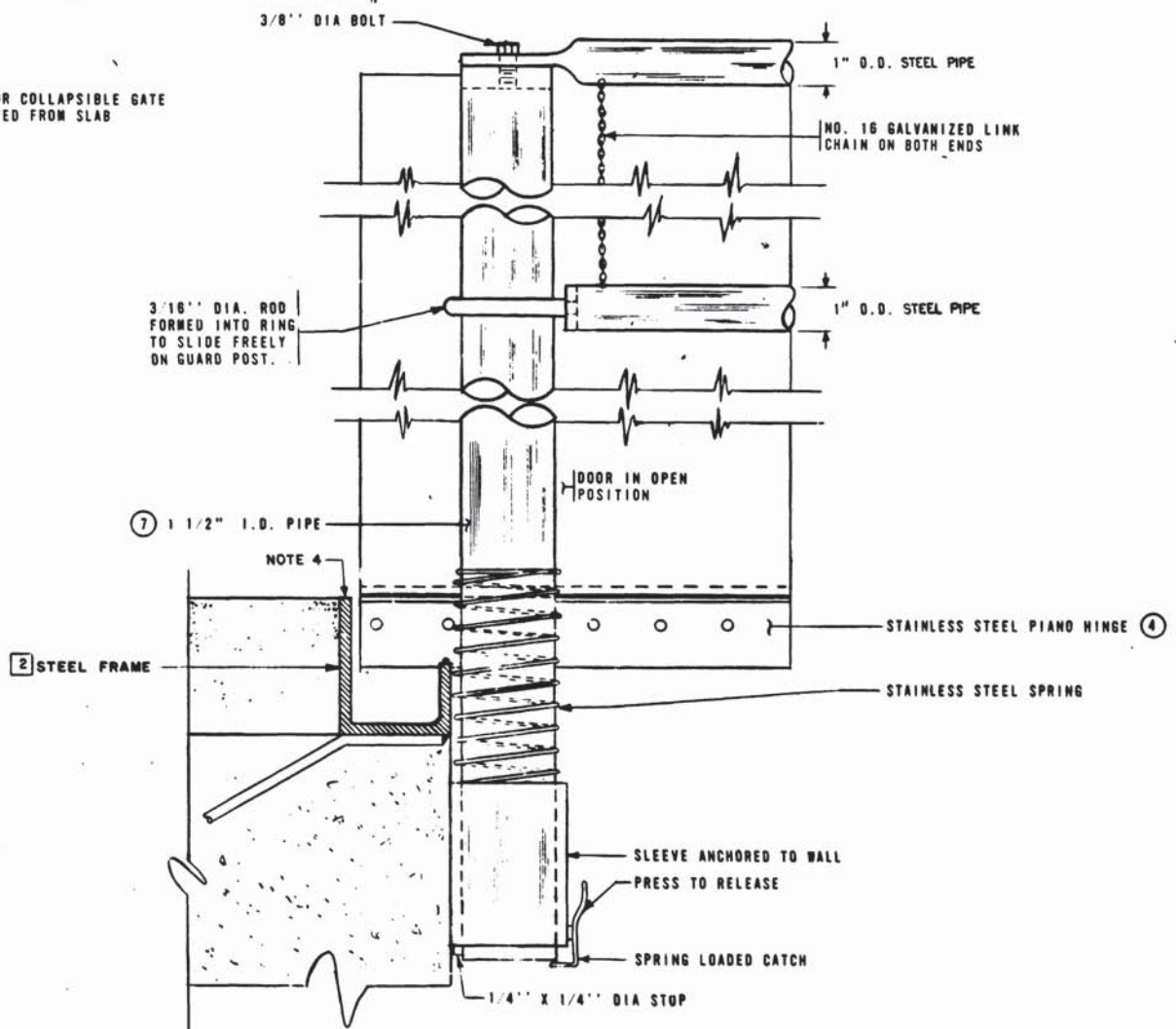
DRAWING NO. ST-M-106 M276-224



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



ISOMETRIC



DETAIL OF GUARD POST
SCALE HALF SIZE

SUPPLEMENTARY MATERIAL LIST:

- ① HEAVY DUTY AUTOMATIC HOLD-OPEN ARM WITH VINYL GRIP.
- ② 1/4" ALUMINUM COVER (REINFORCED FOR 300 LBS. PER SQ. FOOT LIVE LOAD).
- ② ③ 1/4" STEEL FRAME.
- ④ STAINLESS STEEL 1 1/2" PIANO HINGE WITH STAINLESS STEEL PINS.
- ⑤ COMPRESSION SPRING LIFTING MECHANISM. NUMBER AS REQUIRED.
- ⑥ COLLAPSIBLE GATE WITH AUTOMATIC LOCKING MECHANISM TO BE LOCKED AND UNLOCKED FROM INSIDE HATCH PIT WITH 3/8" X 3/8" SQUARE KEY.
- ⑦ 1-1/2" ID STEEL GUARD POST.
- ① ⑧ 5/16" X 5/16" SQUARE KEY AND HANDLE FOR UNLOCKING SLAM TYPE LOCK ON HATCH DOOR AND COLLAPSIBLE GATE.

NOTES

- 1. SUITABLE ARRANGEMENT TO BE MADE TO STORE GUARD CHAINS WHEN NOT IN USE.
- 2. COLLAPSIBLE GATE TO BE INSTALLED TO GIVE A MINIMUM HEAD CLEARANCE OF 7'-0" FROM TOP OF TREAD.
- 3. DOOR SERVES AS GUARD WHEN IN OPEN POSITION.
- ② 4. THE VISIBLE METAL SURFACES OF DOOR AND FRAME SHALL BE PAINTED. COLOR: FEDERAL STANDARD 595, COLOR 20040.

DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
A S GILL	12/2/71	ST-M-100	MECHANICAL STANDARD DRAWING MAINTENANCE HATCH FOR ESCALATOR MACHINE SHT.	4-6-73	[Signature]	ADJUSTED SHIP'S LADDER, DOOR DIMENSION AND CONCRETE OPENING
DRAWN	DATE	ST-M-12	STAIRS, LADDERS AND HANDRAILS	6-2-75	[Signature]	ADJUSTED DWG TITLE, HEADROOM NOT CHANGED FRAME MATERIAL TO STEEL, PROVIDED STEEL ANCHOR
CHECKED	DATE					
APPROVED	DATE					



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA

APPROVED [Signature] DIRECTOR OF ENGINEERING

APPROVED [Signature] CHIEF OF ENGINEERING

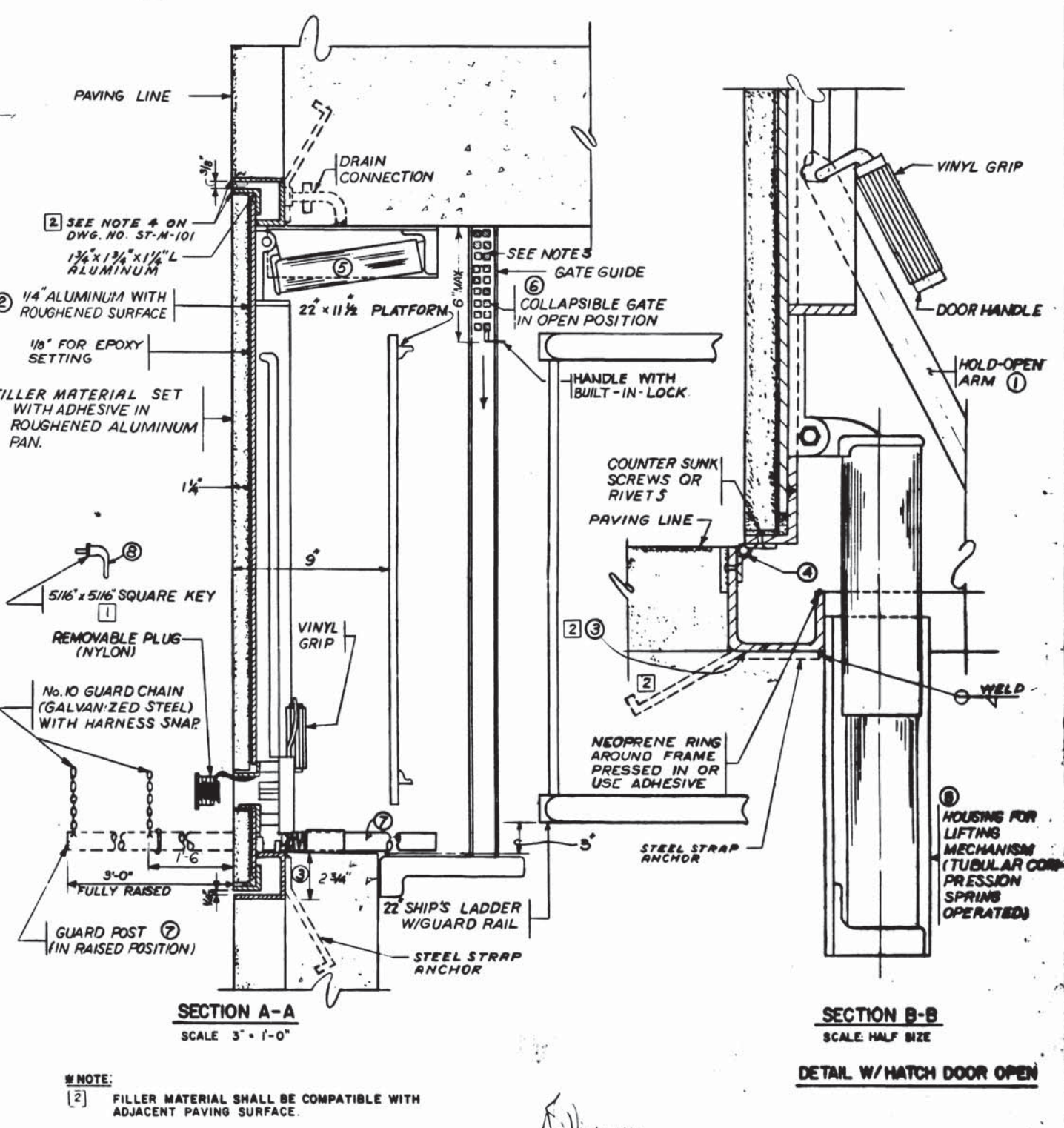
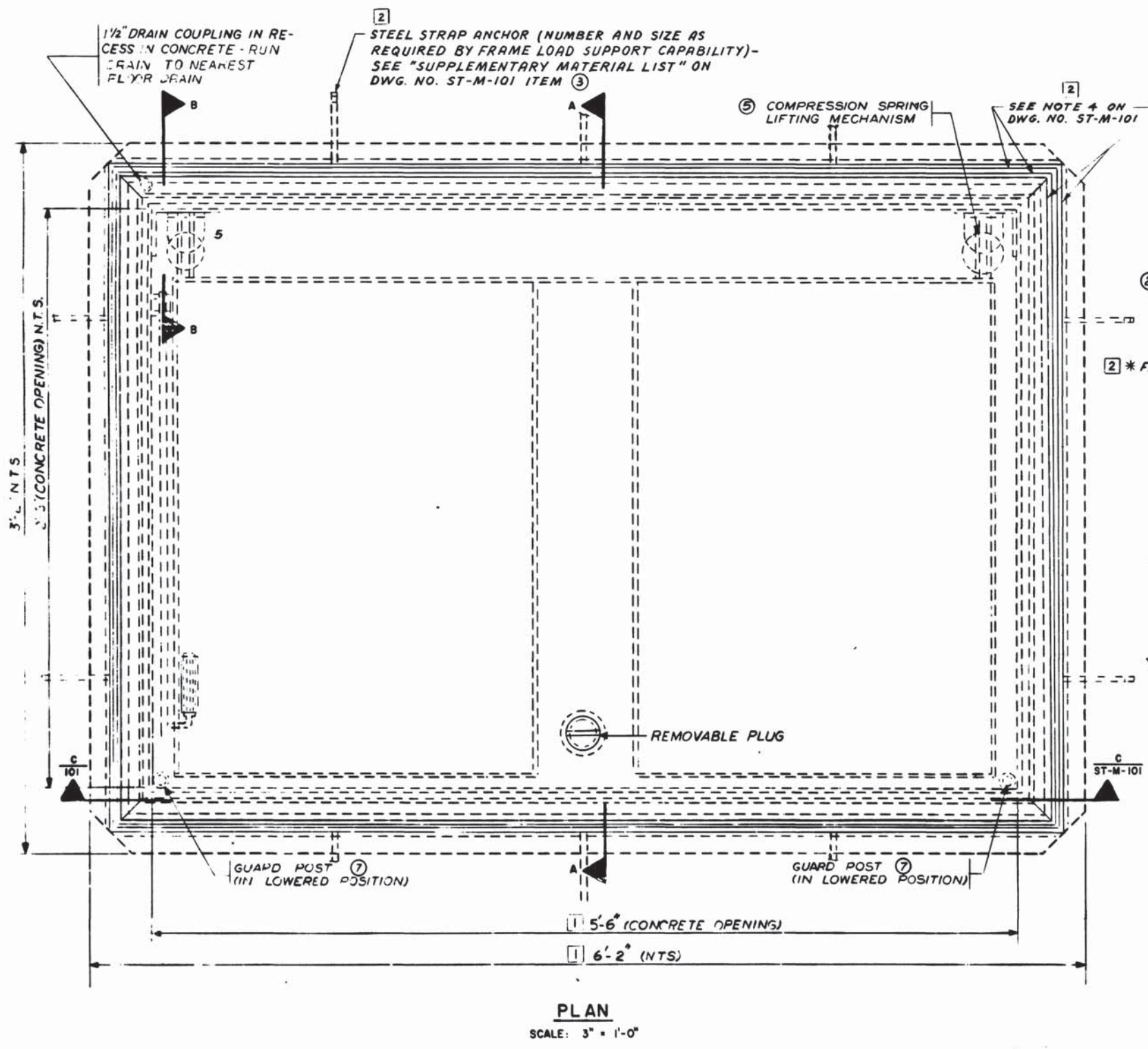
DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

MECHANICAL STANDARD DRAWING
MAINTENANCE HATCH FOR ESCALATOR AND ELEVATOR MACHINE ROOM SHT. 2
SECTION NO. A11b

SCALE: AS NOTED

101 M276-223

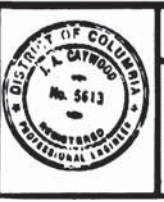


#NOTE:
 [2] FILLER MATERIAL SHALL BE COMPATIBLE WITH ADJACENT PAVING SURFACE.

DESIGNED A.S. GILL 11/17/71
 DATE
 DRAWN S.A. HOWARD 11/17/71
 DATE
 CHECKED [Signature] 11/17/71
 DATE
 APPROVED _____ DATE

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
ST-M-101	MECHANICAL STANDARD DRAWING MAINTENANCE HATCH FOR ESCALATOR MACHINE ROOM SHT. 2	4-6-73	[Signature]
		6-2-75	[Signature]

NO.	DATE	DESCRIPTION
1		ADJUSTED DIMENSIONS FOR LENGTH OF CONC. OPENING & DOOR
2		ADJUSTED DRAWING TITLE, FILLER MATERIAL, FRAME MATERIAL AND METHOD OF ANCHORING
3		NAME TO CONCRETE



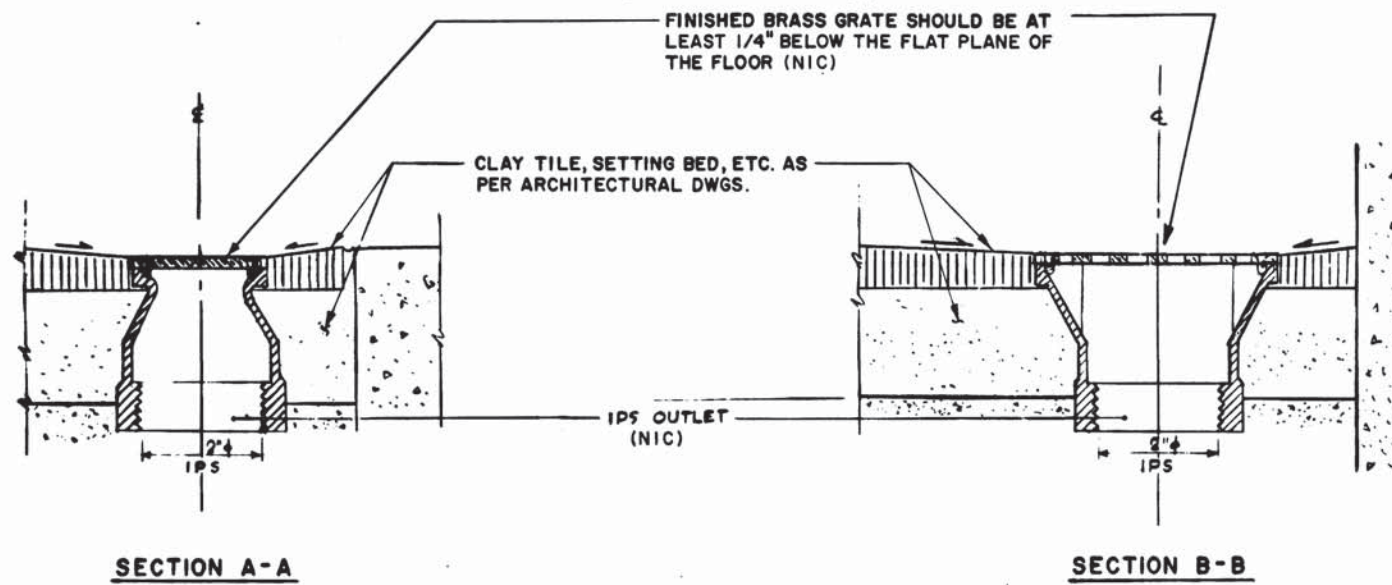
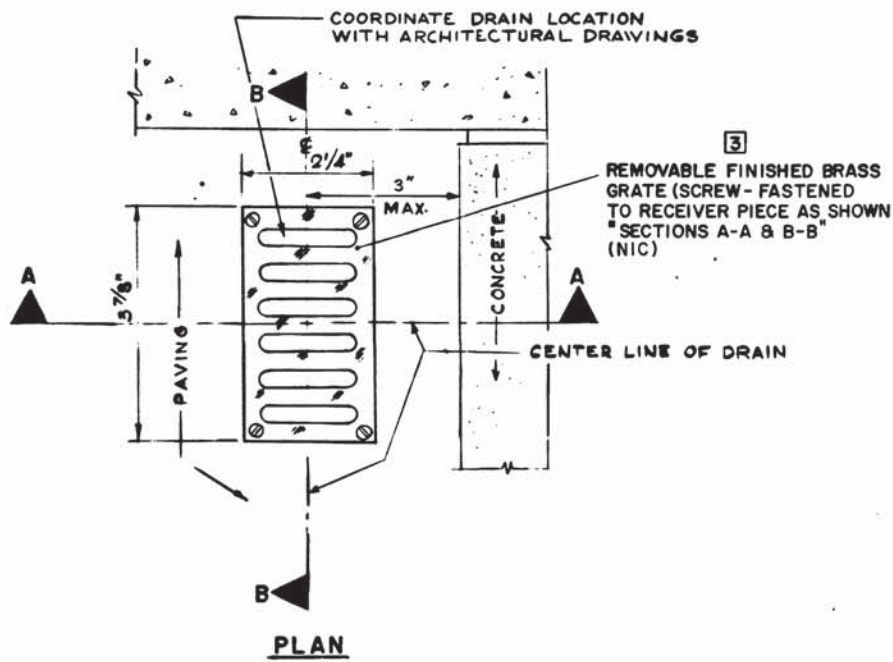
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA
 APPROVED [Signature] DIRECTOR OF ENGINEERING
 APPROVED [Signature] CHIEF OF ENGINEERING AND OPERATIONS

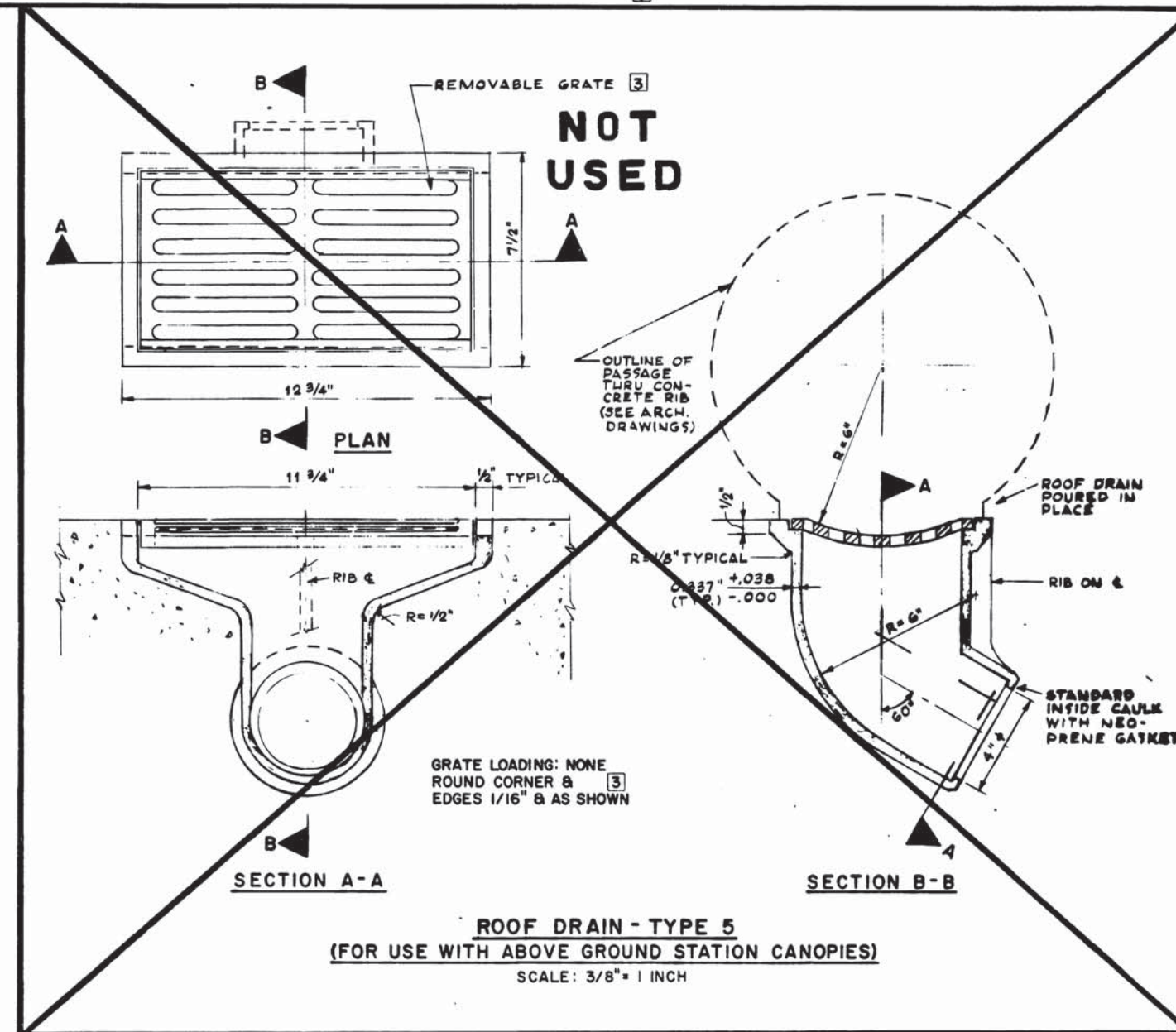
DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 APPROVED [Signature]

MECHANICAL STANDARD DRAWING
 MAINTENANCE HATCH FOR ESCALATOR AND ELEVATOR MACHINE ROOM SHT. 1
 SECTION NO. A11b

SCALE: AS NOTED
 DRAWING NO. ST-M-100
 M276-222



2 1 PASSAGEWAY FLOOR DRAIN 3
NOT TO SCALE
(FOR REFERENCE ONLY)



DESIGNED	J. M. SOLOMON	1/15/70
DATE		
DRAWN	P. E. EARLEY	1/22/70
DATE		
CHECKED	<i>[Signature]</i>	1/22/70
DATE		
APPROVED	<i>[Signature]</i>	1/22/70
DATE		

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS		
DATE	BY	DESCRIPTION
9/31/72		ADJUSTED PASSAGEWAY DRAIN
5-8-73		ADJUSTED STRAINER PLATE
1-20-78		TERMINOLOGY AGREE WITH STD. SPECS.



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA

APPROVED *[Signature]*
DIRECTOR OF ENGINEERING

APPROVED *[Signature]*
CHIEF OF ENGINEERING AND OPERATIONS

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

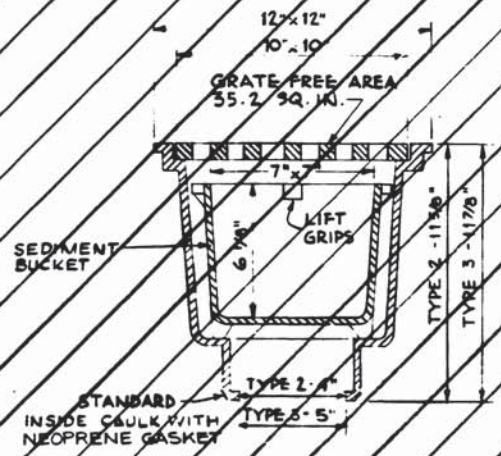
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

MECHANICAL STANDARD DRAWING
DRAINAGE DETAILS AND CASTINGS SHT. 4
SECTION NO. A11b

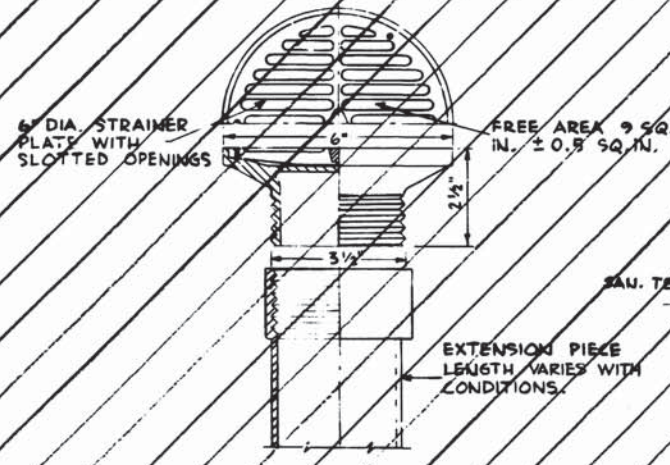
SCALE AS NOTED

DRAWING NO. ST-M-53

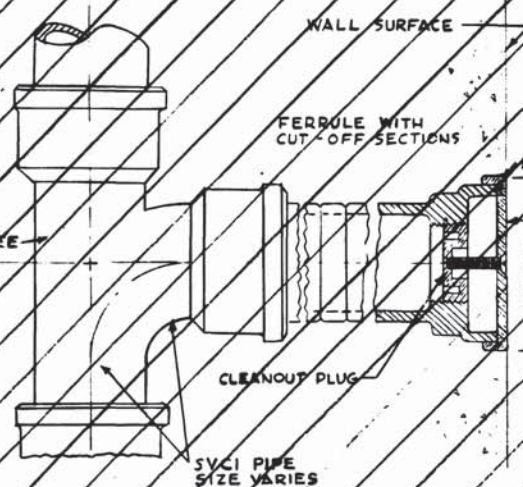
M276-221



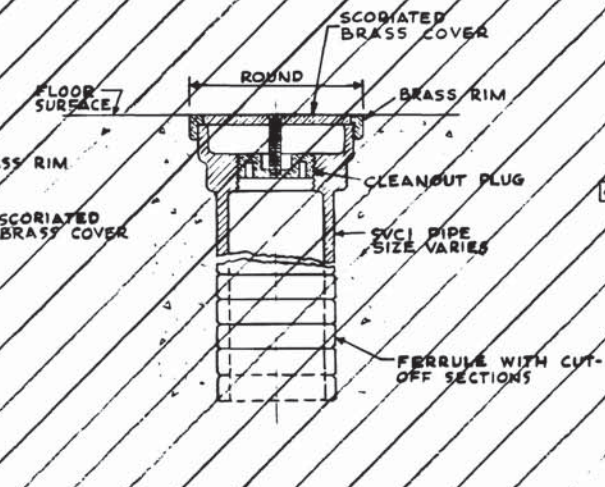
2 2 DRAIN INLET - TYPES 2 & 3
NOT TO SCALE



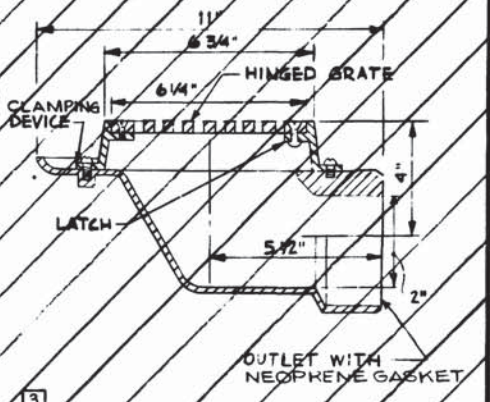
DRAIN INLET - TYPE 4
NOT TO SCALE



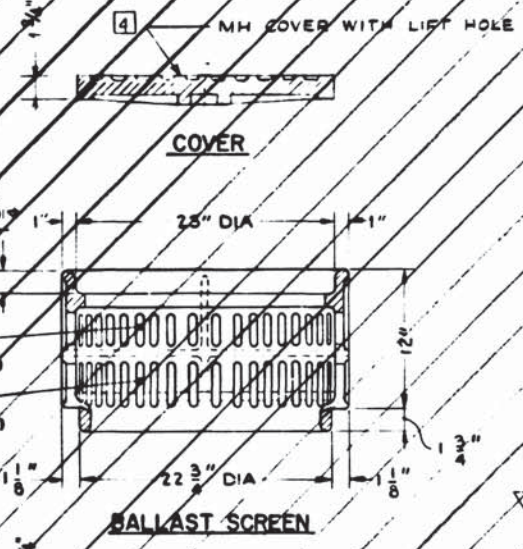
1 CLEANOUT - TYPE 2
NOT TO SCALE



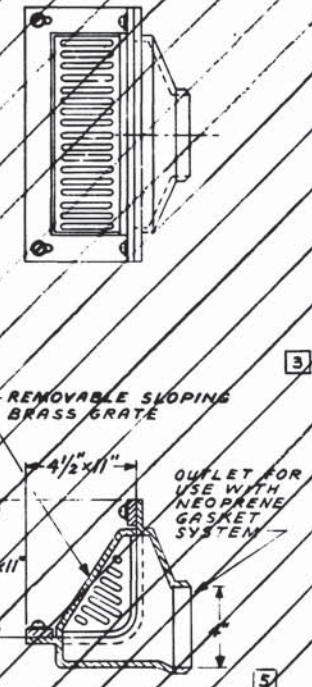
1 CLEANOUT - TYPE 3
NOT TO SCALE



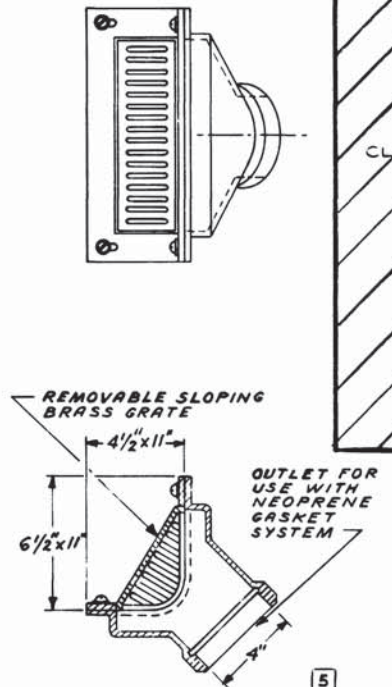
2 FLOOR DRAIN - TYPE 2
NOT TO SCALE



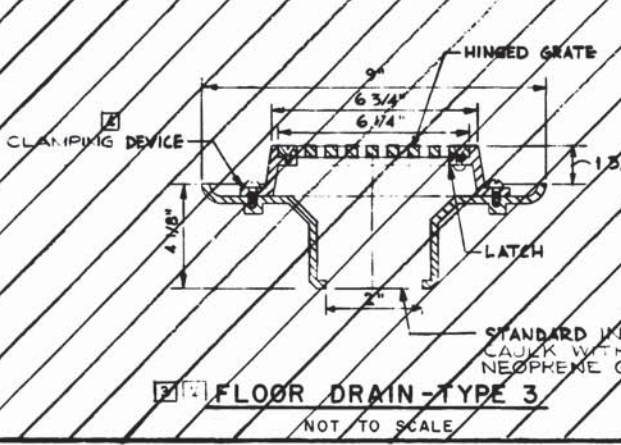
3 BALLAST SCREEN, FRAME & COVER
NOT TO SCALE



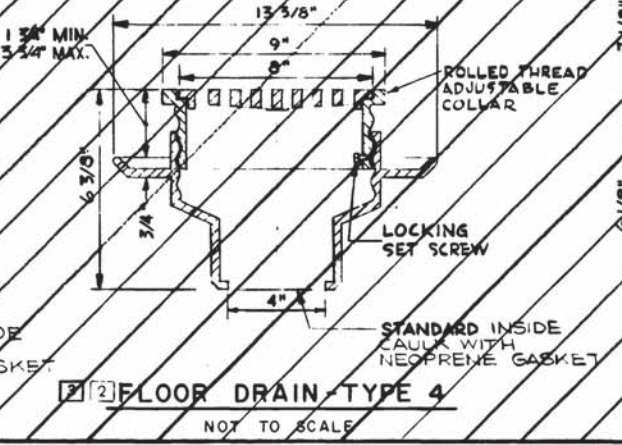
SCUPPER DRAIN - TYPE 3
NOT TO SCALE



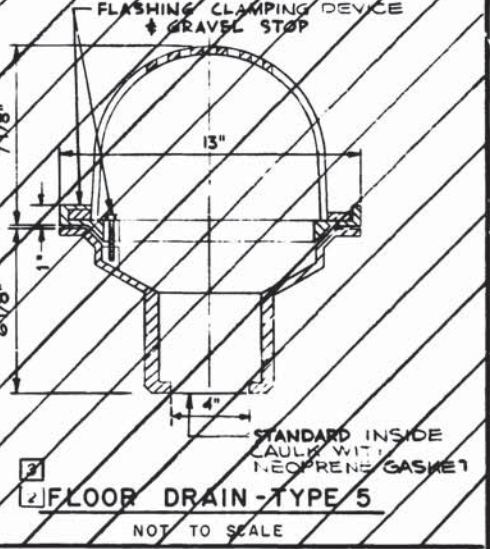
SCUPPER DRAIN - TYPE 4
NOT TO SCALE



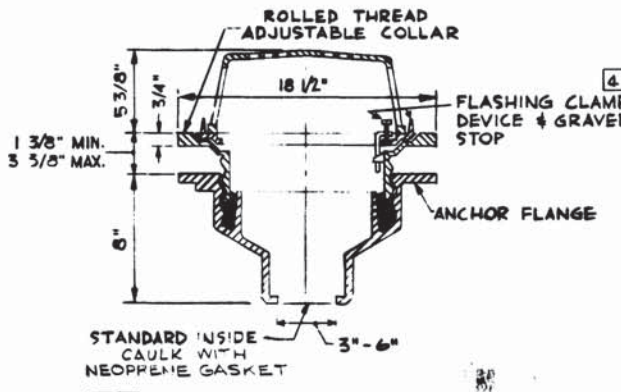
2 FLOOR DRAIN - TYPE 3
NOT TO SCALE



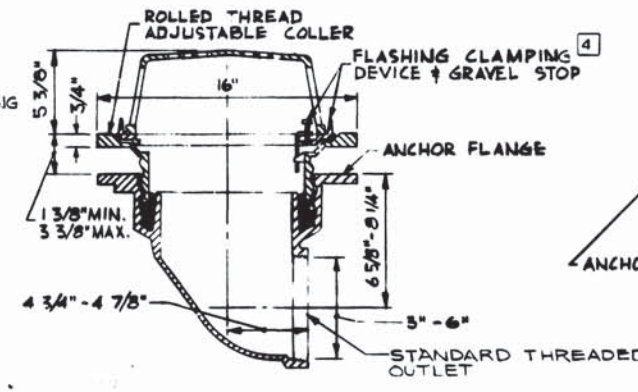
2 FLOOR DRAIN - TYPE 4
NOT TO SCALE



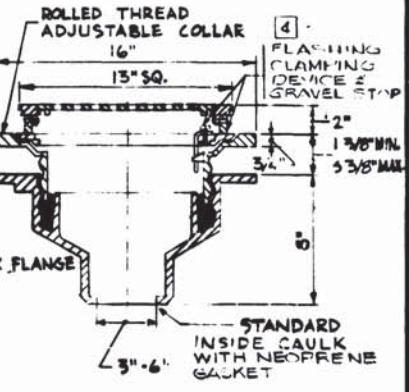
2 FLOOR DRAIN - TYPE 5
NOT TO SCALE



2 ROOF DRAIN - TYPE 1
NOT TO SCALE



ROOF DRAIN - TYPE 2
NOT TO SCALE



2 ROOF DRAIN - TYPE 3
NOT TO SCALE

NOTE:
NO OAKUM AND LEAD CAULKING - ALL CASTINGS TO BE USED WITH NEOPRENE GASKET SYSTEM UNLESS OTHERWISE NOTED. NEOPRENE GASKETS SHALL BE DESIGNED EXCLUSIVELY FOR USE WITH FLOOR AND ROOF DRAINS.

DATE	BY	DESCRIPTION
9-21-76		ADDED SCUPPER DRAINS - TYPES 3 & 4
1-20-75		TERMINOLOGY AGREE WITH STD. SPECS.

NUMBER	DESCRIPTION
ST-M-1	DRAINAGE DETAILS AND CASTINGS SHT. 1
ST-M-40	DRAINAGE DETAILS AND CASTINGS SHT. 3

DESIGNED	I. M. SOLOMON	6-28-68
DRAWN	E. A. COX	6-28-68
CHECKED		
APPROVED		1-28-69

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DE LEUW, CATHCOT & COMPANY
GENERAL ENGINEERING CONSULTANT

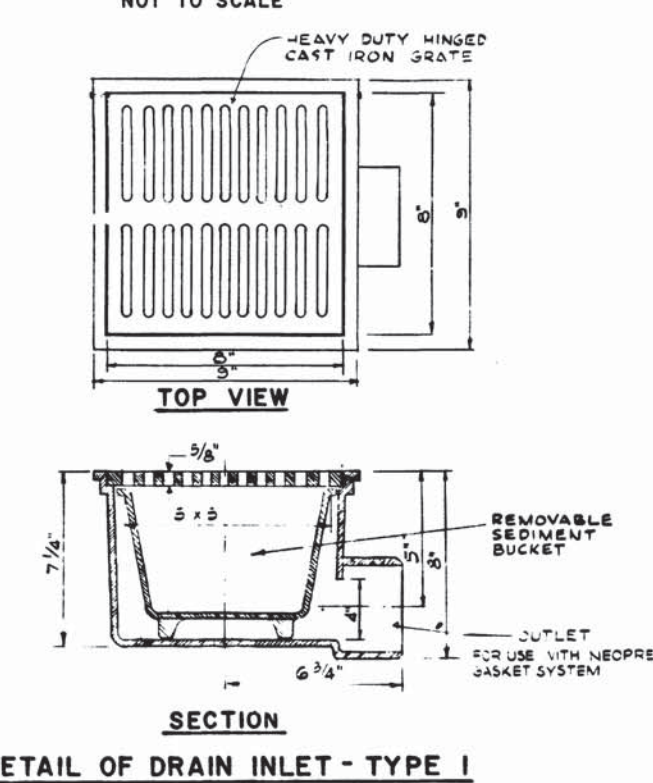
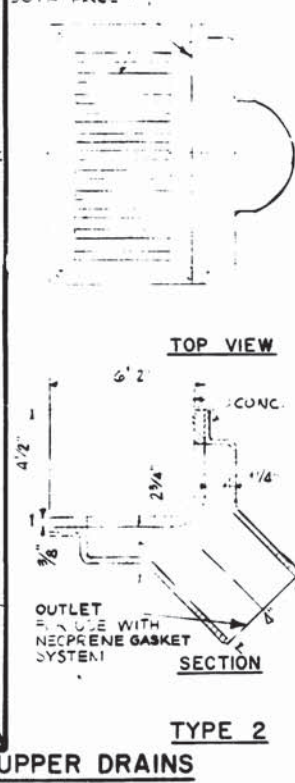
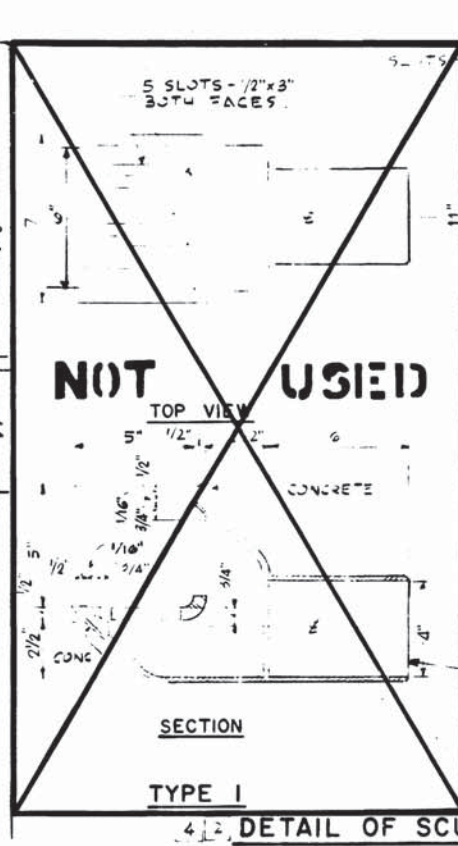
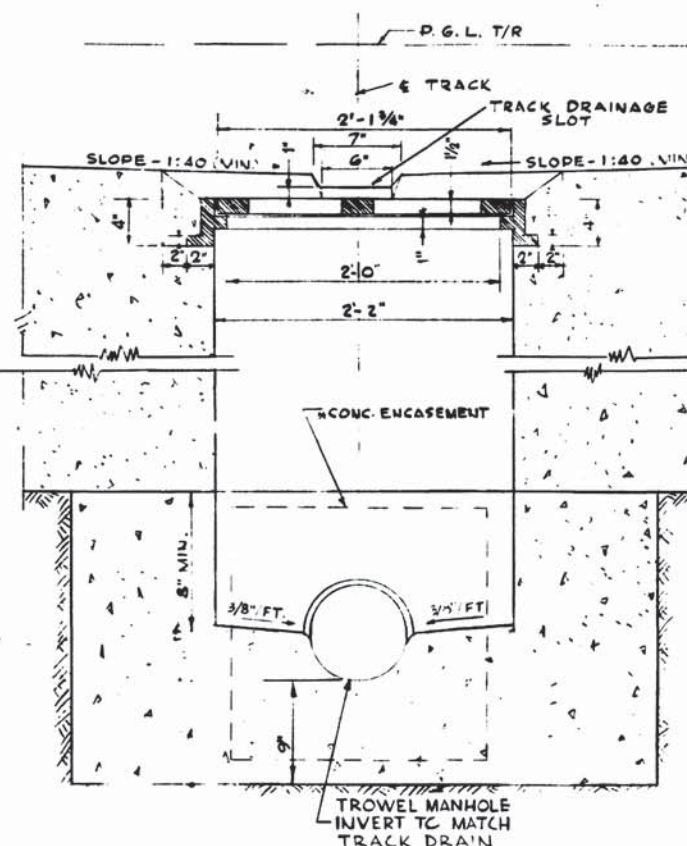
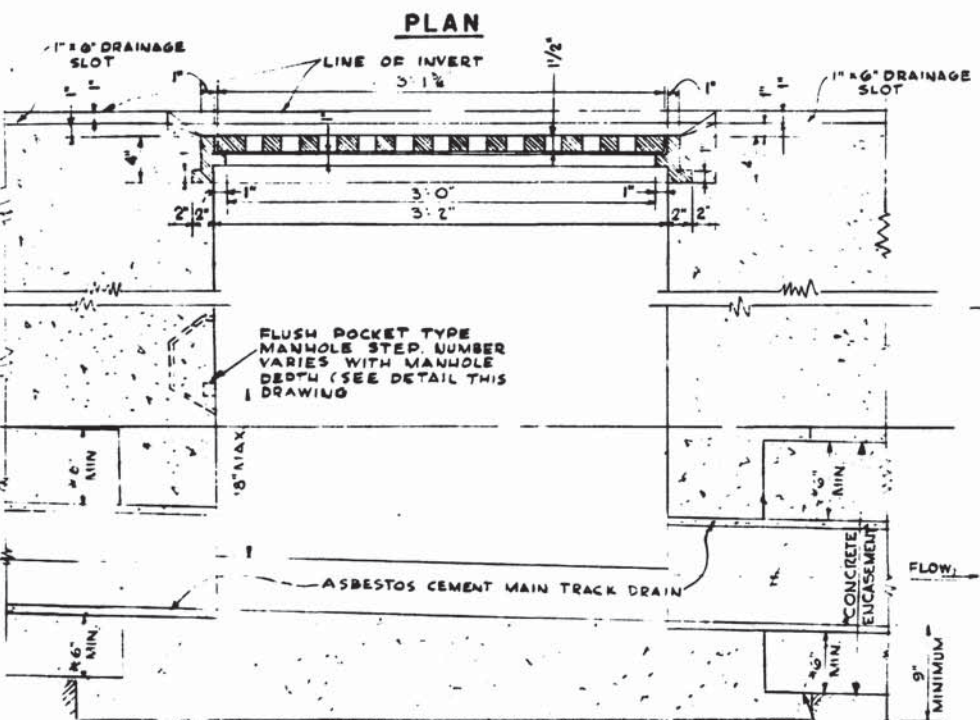
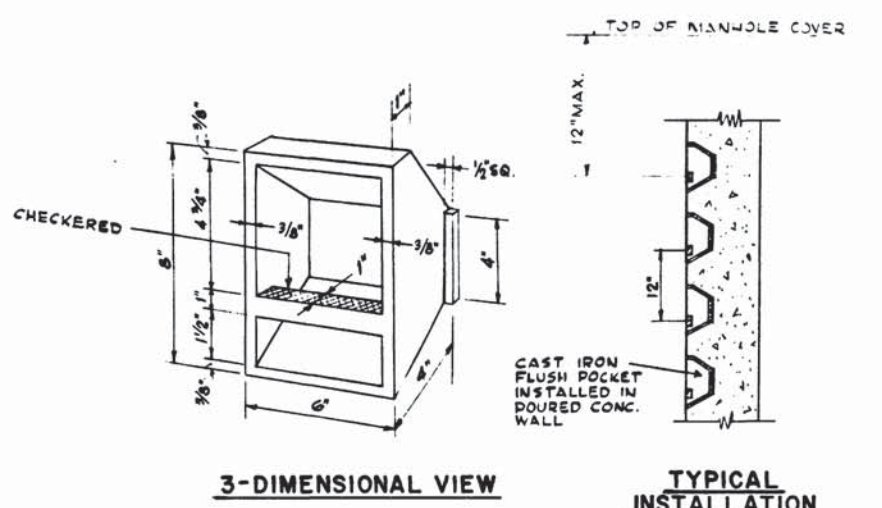
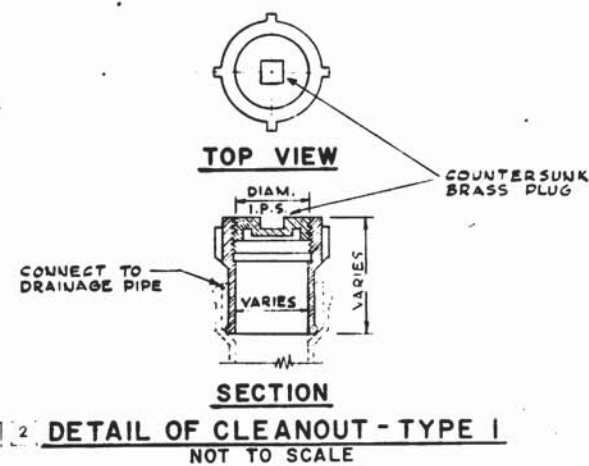
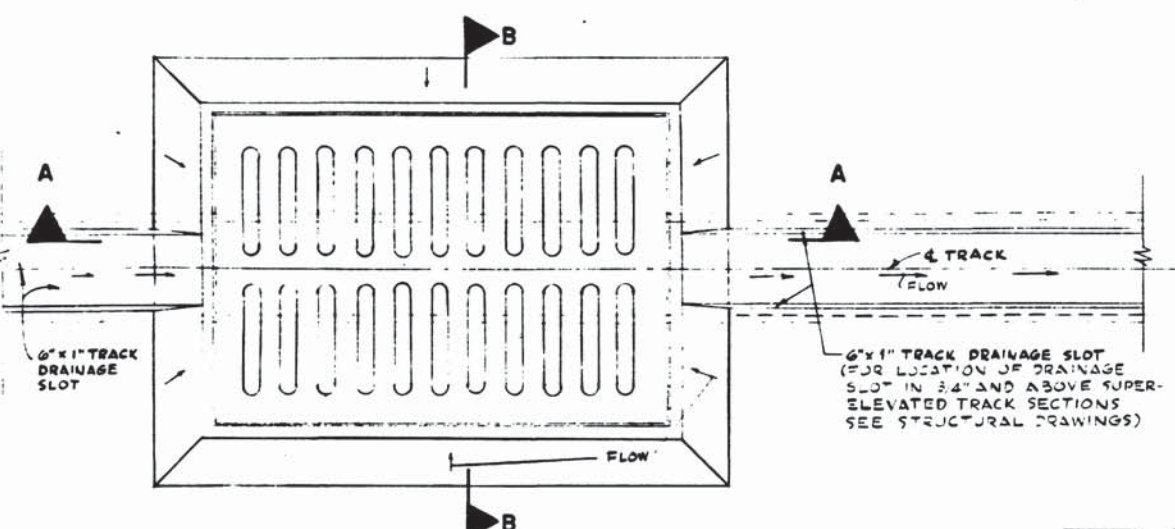
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED BY: _____

MECHANICAL STANDARD DRAWING
DRAINAGE DETAILS AND CASTINGS SHT. 2
SECTION NO. A11B

SCALE: AS NOTED

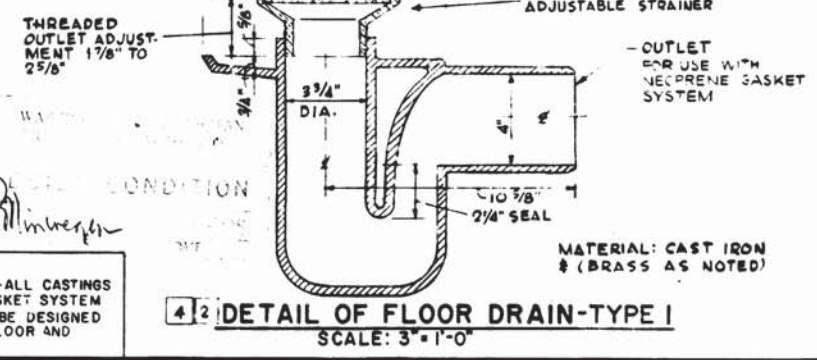
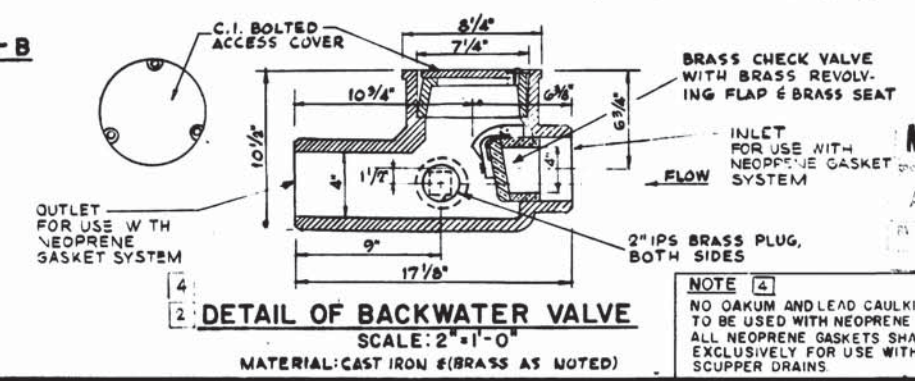
DRAWING NO.: ST-M-26 M276-219



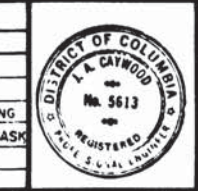
1 SECTION A-A

2 DETAIL OF MANHOLE - TYPE I

- NOTES:
- 1 PROVIDE MANHOLES - TYPE I FOR ACCESS TO MAIN TRACK DRAIN WHERE INDICATED. WEIGHT OF GRATE AND FRAME: 325 #
 - 2 FOR STRUCTURAL DIMENSIONS AND REINFORCING SEE STRUCTURAL CONTRACT DRAWINGS
 - 3 CONCRETE ENCASEMENT IS NOT REQUIRED FOR PERFORATED PIPES AS INDICATED FOR ROCK TUNNEL



DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
C. M. BISHOP	7/8/66						
P. E. EASLEY	7/11/66						
C. M. BISHOP	7/13/66						



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

APPROVED _____

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

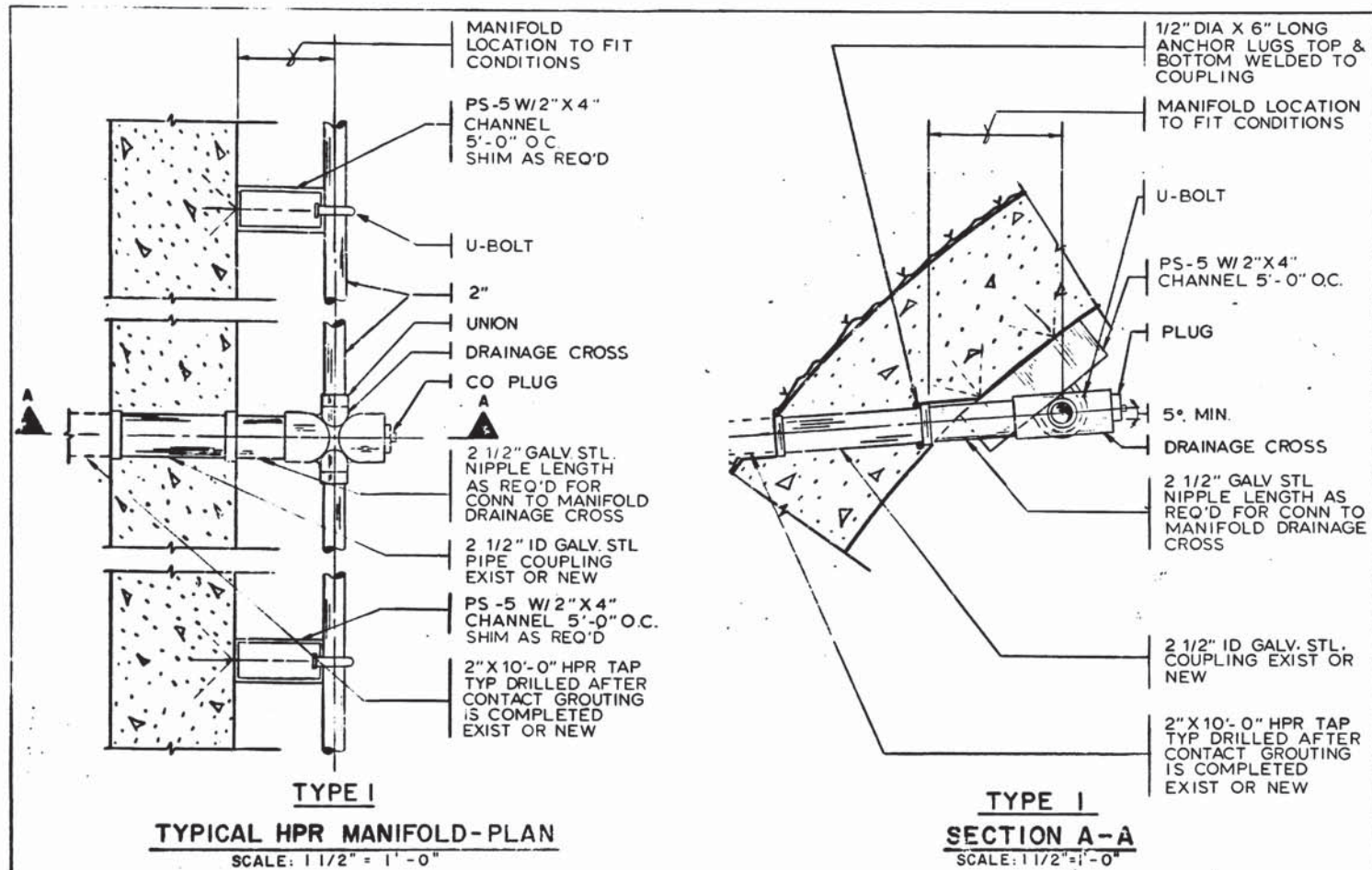
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED _____

MECHANICAL STANDARD DRAWING
DRAINAGE DETAILS AND CASTINGS SHT. 1
SECTION NO. A11b

SCALE: 1-1/2"=1'-0" 3" 6" 9" 12" AND AS NOTED

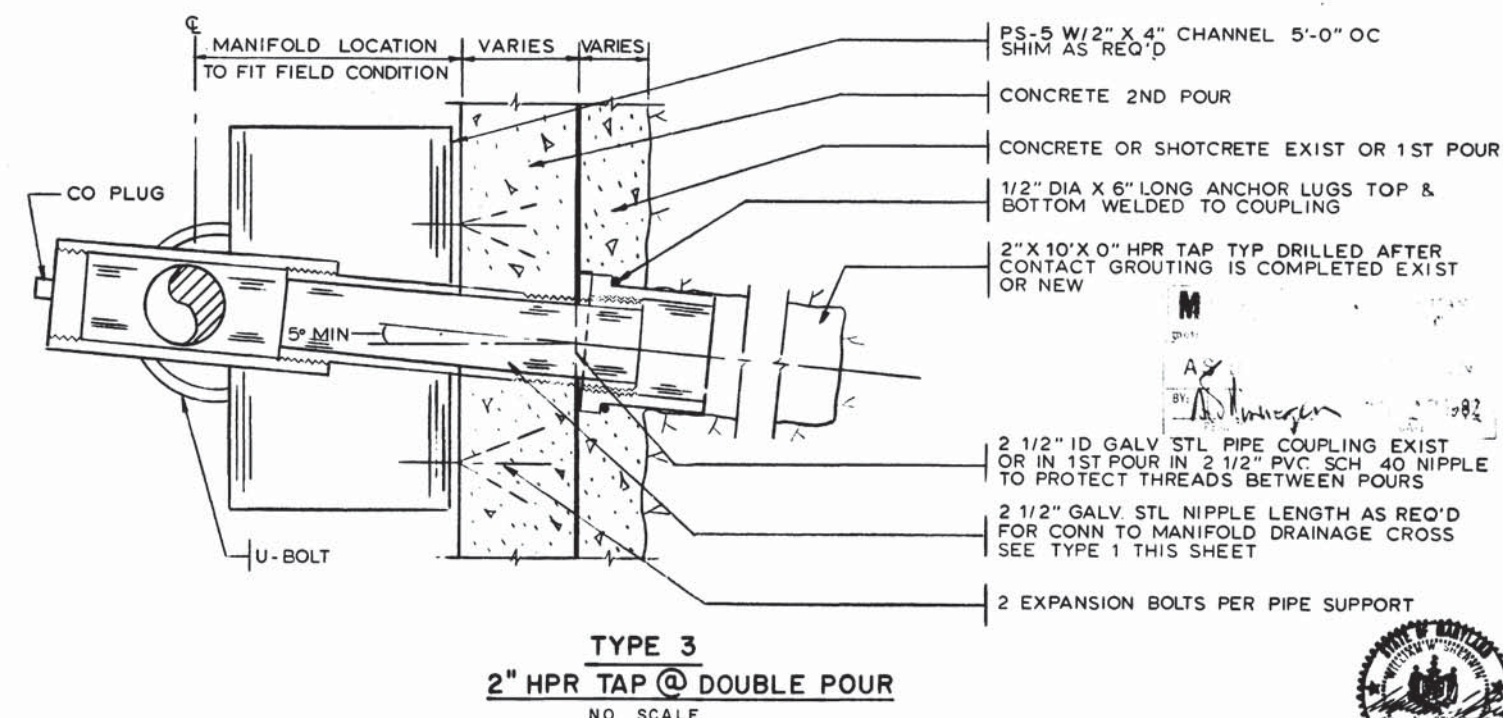
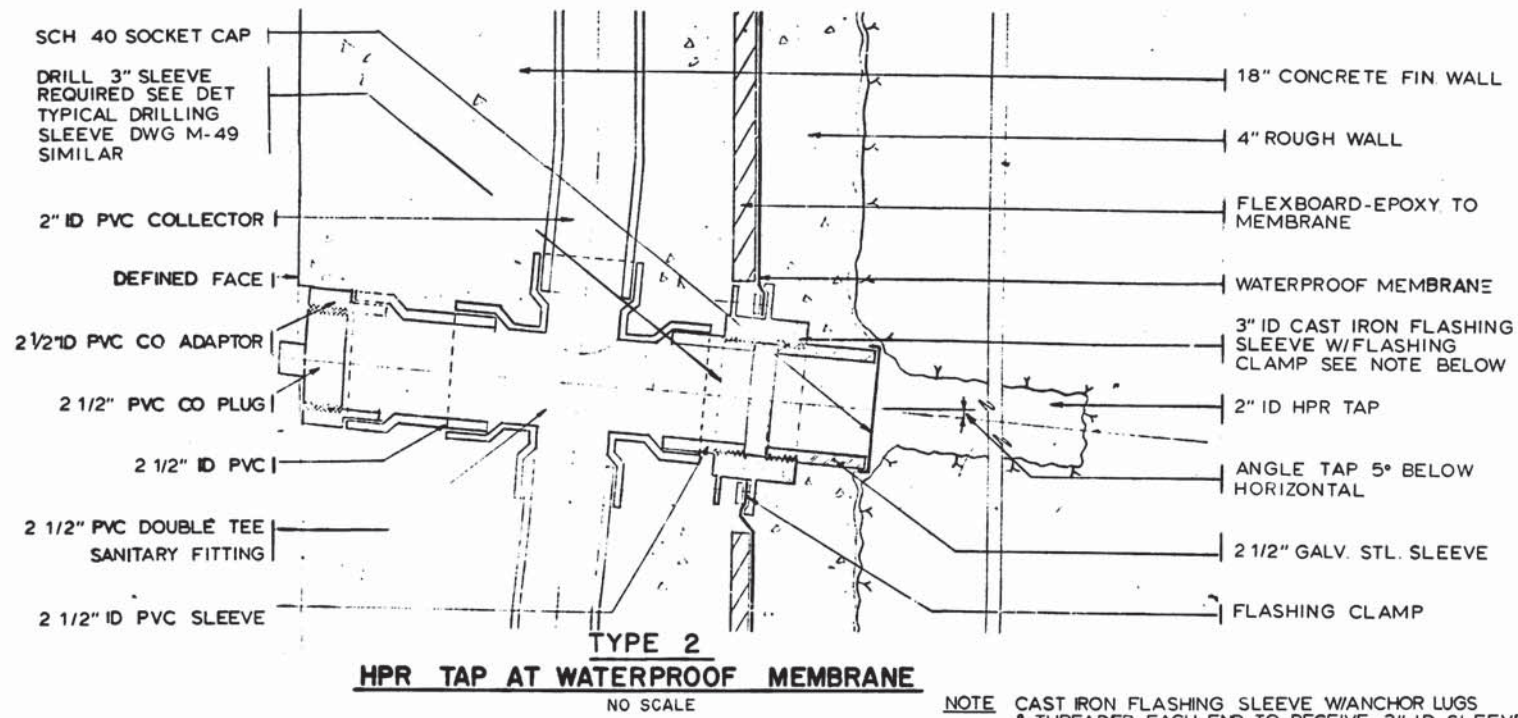
DRAWING NO. ST-M-1 M276-218



VARIES (A) FROM 4'-6" TO 3'-6"
VARIES (B) FROM 4'-5" TO 4'-2"
VARIES (C) FROM 3'-0" TO 3'-6"

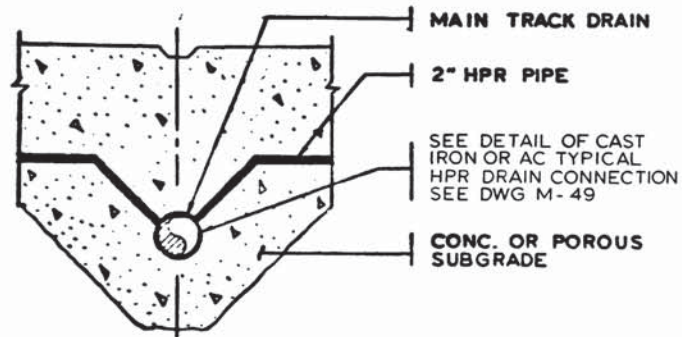
TABLE 1				
MAIN TRACK DRAIN - INVERT DEPTH & PIPE SIZE				
STATIONS (SEE NOTE BELOW)		DEPTH BELOW T/R		PIPE DIA (INCHES)
FROM	TO	CIRCULAR TUNNEL	HORSESHOE TUNNEL	
512+22	510+94.83	3'-6" BOX	3'-6" BOX	8
510+94.83	510+50	NO PIPE	NO PIPE	8
510+50	502+50	4'-6" BOX	4'-6" BOX	8
502+50 OB	499+20 OB	4'-6"	4'-6"	8
502+50 IB	499+00 IB	4'-6"	4'-6"	8
499+20 OB	497+49 OB	VARIES (A)	VARIES (A)	8
499+20 IB	487+49 IB	VARIES (A)	VARIES (A)	8
497+49	489+66	3'-6"	3'-6"	8
489+66	487+05.66	3'-6"	3'-6"	10
487+05.66 OB	485+61.25 OB	VARIES (B)	VARIES (B)	12
487+05.66 IB	486+55 IB	VARIES (C)	VARIES (C)	12
485+61.25 OB	457+71 OB	3'-6"	3'-6"	12
485+55 IB	457+71 IB	3'-6"	3'-6"	12
457+71	454+69	VARIES (A)	VARIES (A)	12
454+68	451+70.42	4'-6"	4'-6"	12
451+70.42	442+96.08	4'-6"	4'-6"	12
442+96.08	439+94	4'-6"	4'-6"	12
439+94	395+92.33	3'-6"	3'-6"	12
395+95.33	387+85.75	3'-6"	4'-6"	12

NOTE:
1. ALL STATIONS GIVEN ARE REFERENCED TO THE OUTBOUND TRACK UNLESS INDICATED OTHERWISE.
2. ALL MAIN TRACK DRAINS TO BE AC PIPE IN CONCRETE AND ACPD PIPE IN POROUS SUBGRADE.

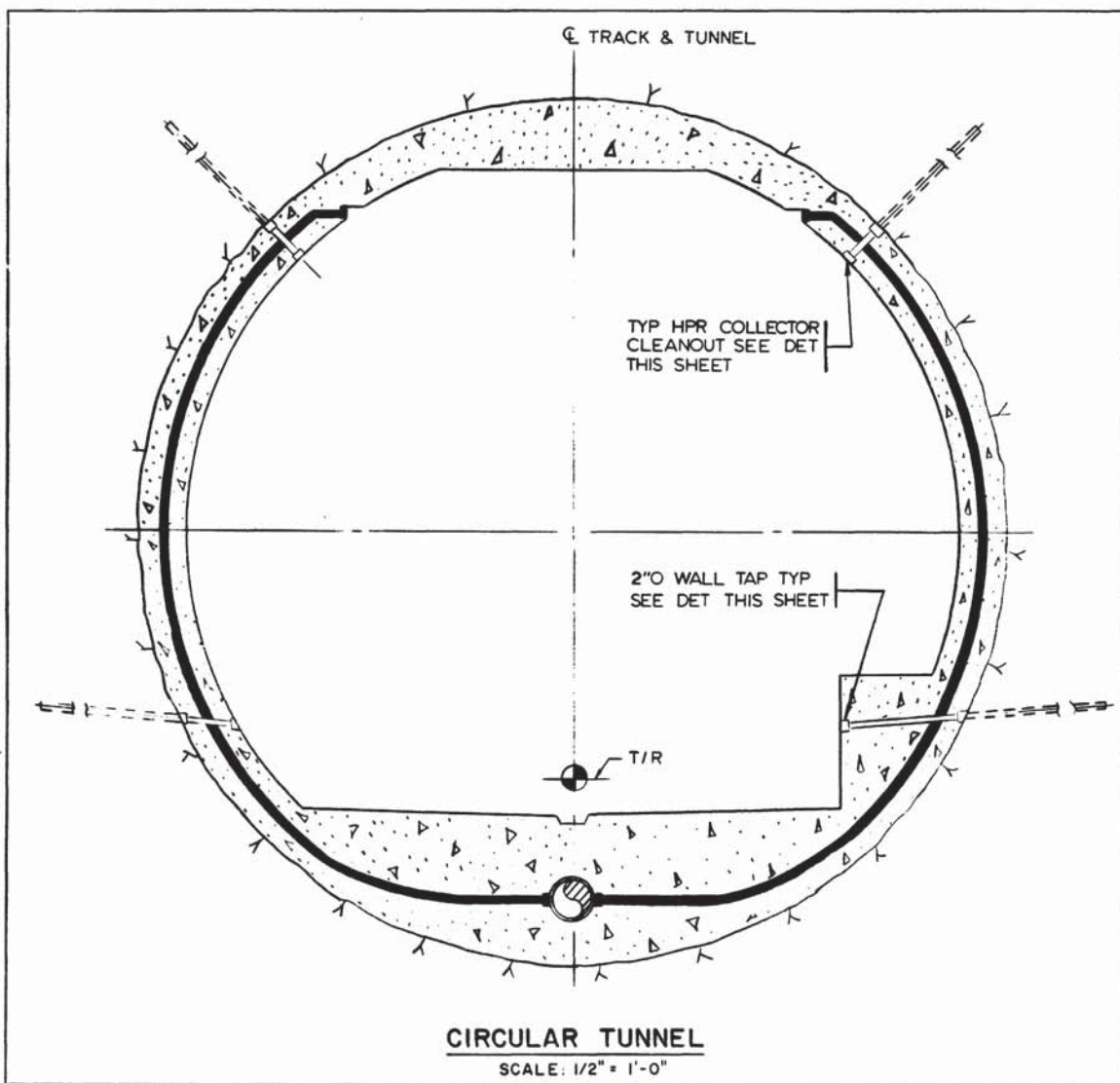


DESIGNED M. MAHAN 3-20-76 DATE	REFERENCE DRAWINGS	REVISIONS	<p>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</p> <p>MATHEWS • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER</p> <p>DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT</p> <p>HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANTS</p>	<p>ROCKVILLE ROUTE HYDROSTATIC PRESSURE RELIEF SYSTEM</p> <p>SCALE AS NOTED</p> <p>DRAWING NO. A11b-M-51 M276-216</p>
DRAWN G. GRAYTON 3-20-76 DATE	NUMBER DESCRIPTION	DATE BY DESCRIPTION		
CHECKED M. MAHAN 3-25-77 DATE				
APPROVED S. MICHAELIS 3-25-77 DATE				

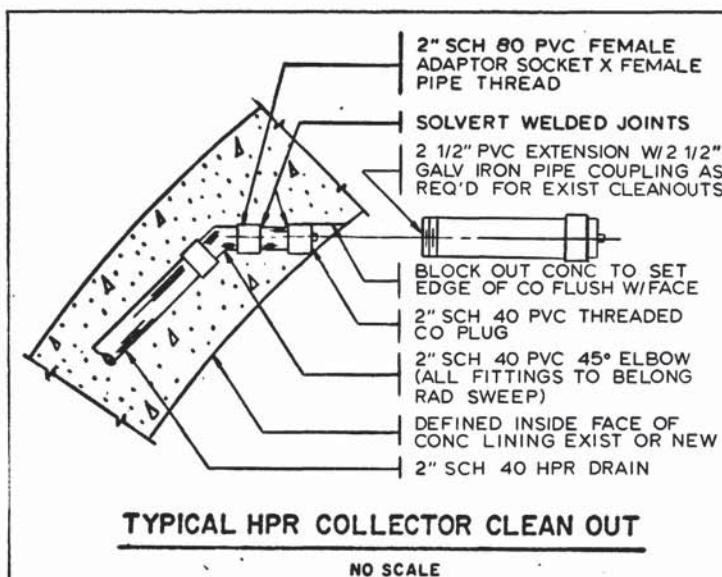
SUBMITTED *[Signature]* DATE 5/12/77 APPROVED *[Signature]*



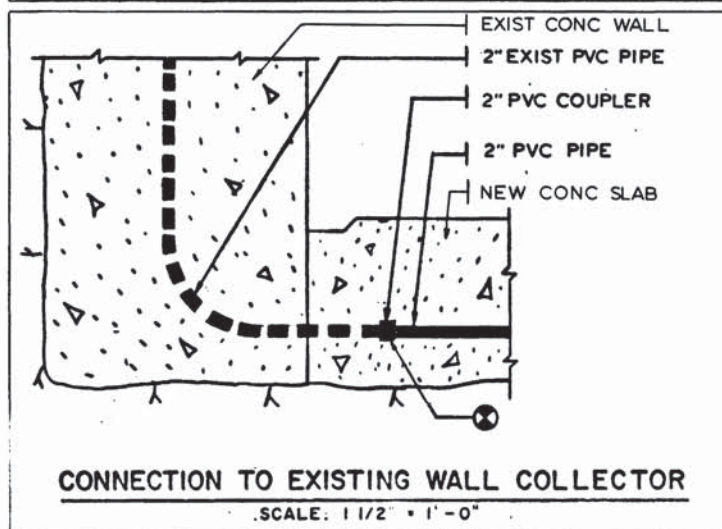
TYPICAL HPR DRAIN CONNECTION
NO SCALE



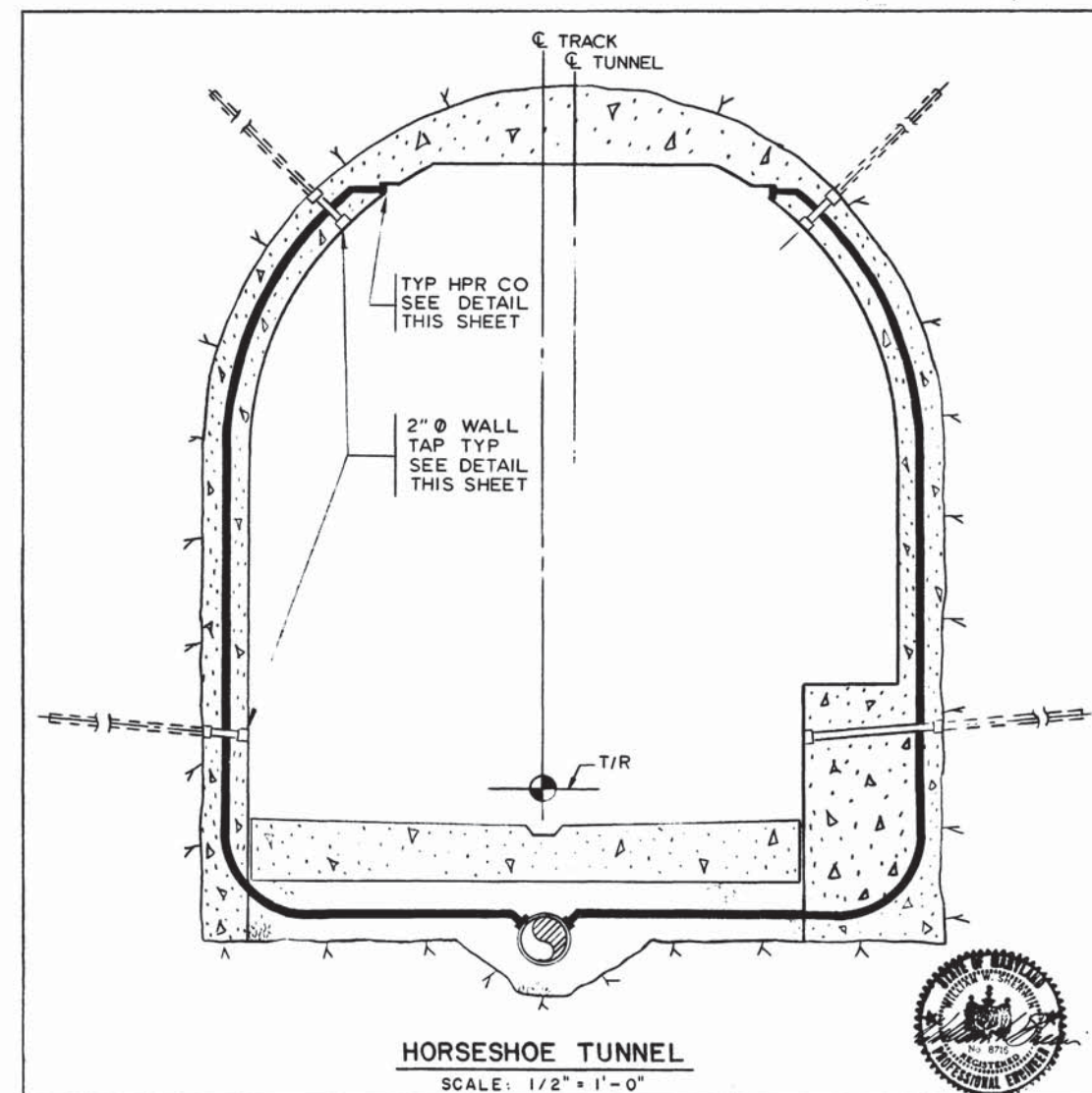
CIRCULAR TUNNEL
SCALE: 1/2" = 1'-0"



TYPICAL HPR COLLECTOR CLEAN OUT
NO SCALE



CONNECTION TO EXISTING WALL COLLECTOR
SCALE: 1 1/2" = 1'-0"



HORSESHOE TUNNEL
SCALE: 1/2" = 1'-0"



DESIGNED	M. MAHAN	2-17-76	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	G. GRAYTON	2-25-76	DATE	S-12	FLOATING SLAB TYPES 2AH & 2AC PLAN & SECTION			
CHECKED	M. MAHAN	3-25-77	DATE	S-13	SINGLE TRACK TUNNELS TYPE CH & CC			
APPROVED	S. MICHAELIS	3-25-77	DATE	E-45	EMBEDDED ITEMS DETAILS			



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS

SECTION DESIGNER
Wm Chat M

SUBMITTED DATE 5/12/77

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

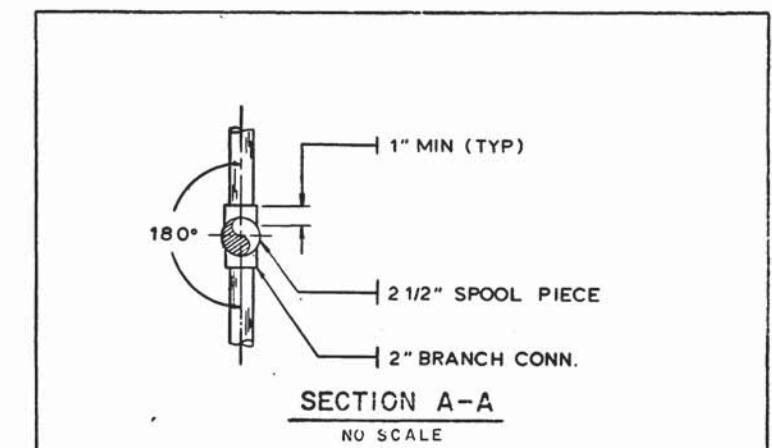
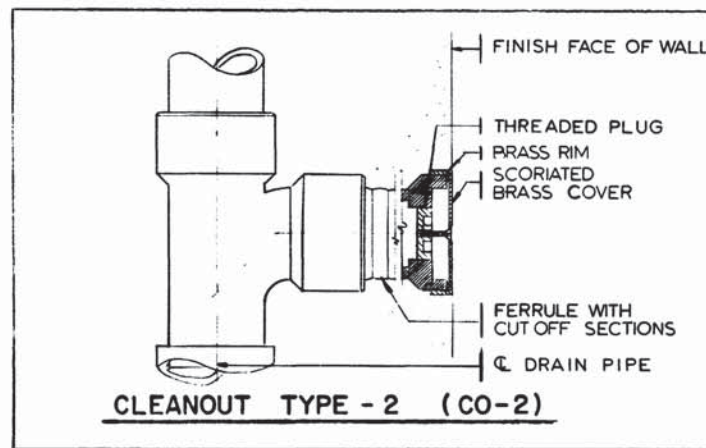
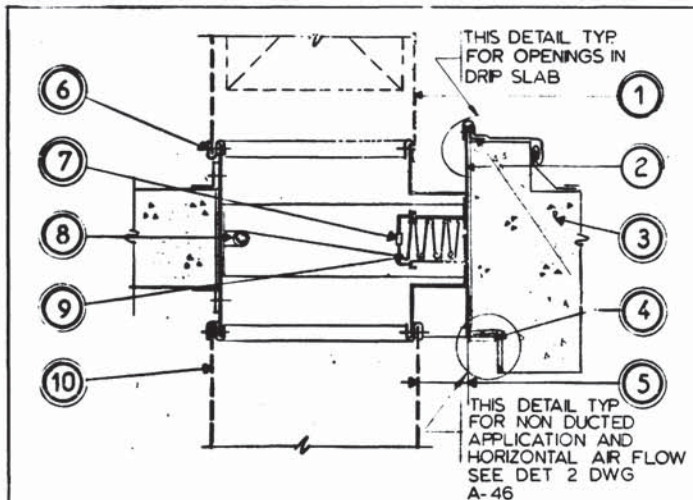
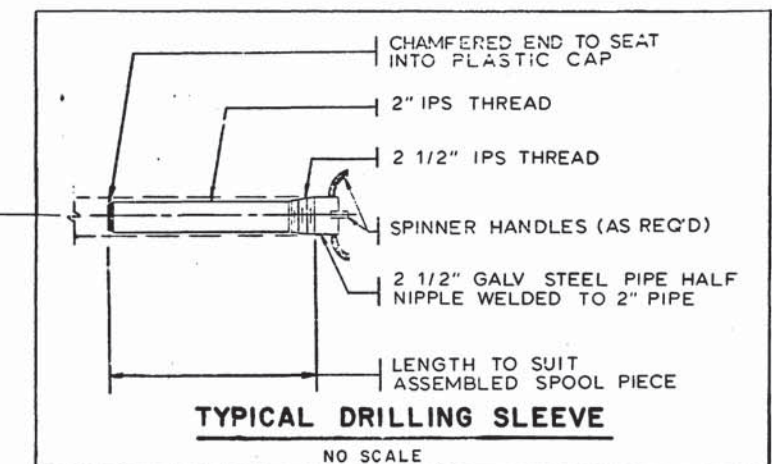
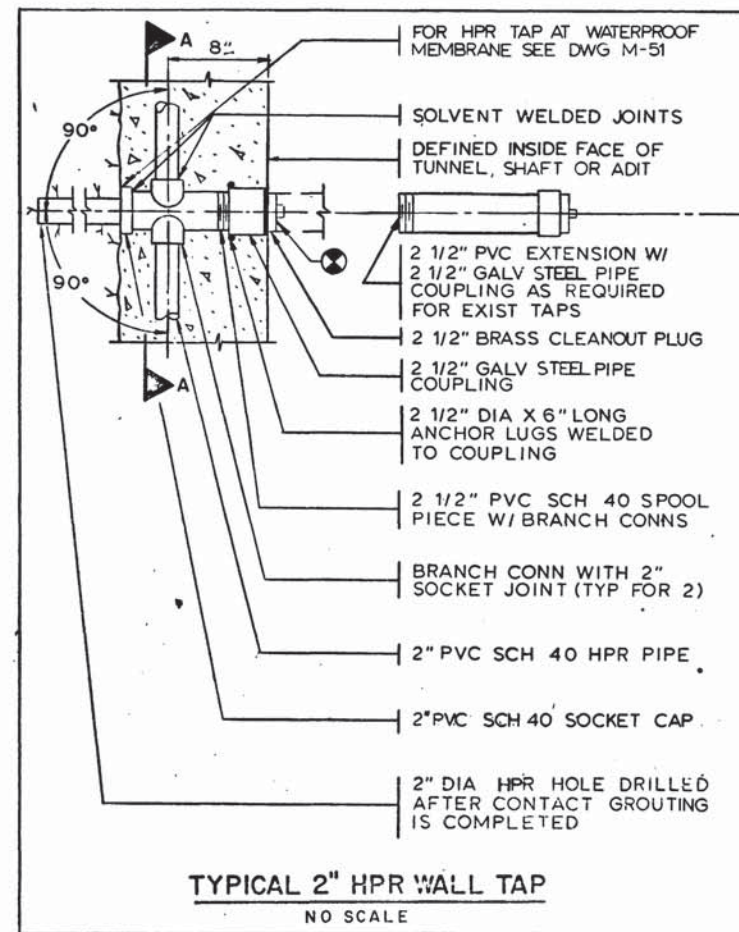
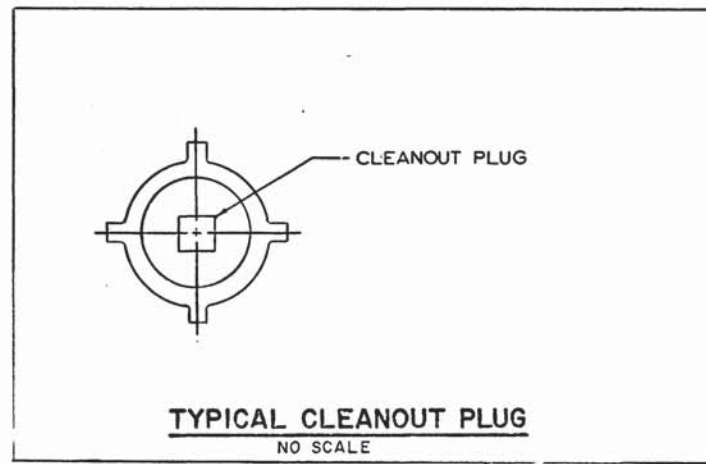
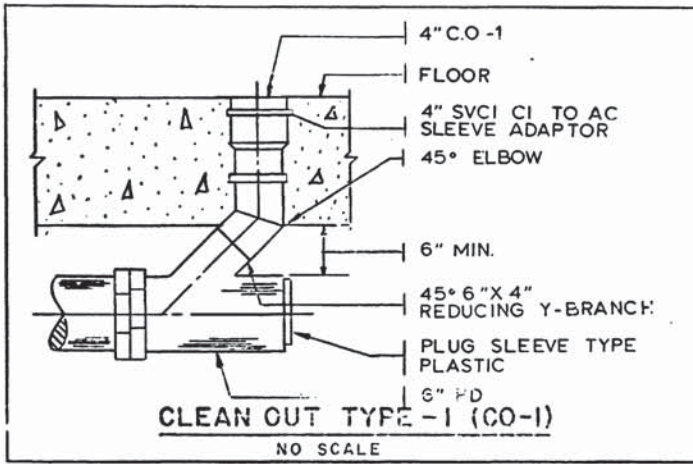
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED *Robert Weese*

ROCKVILLE ROUTE
HYDROSTATIC PRESSURE RELIEF SYSTEM
SECTIONS AND DETAILS

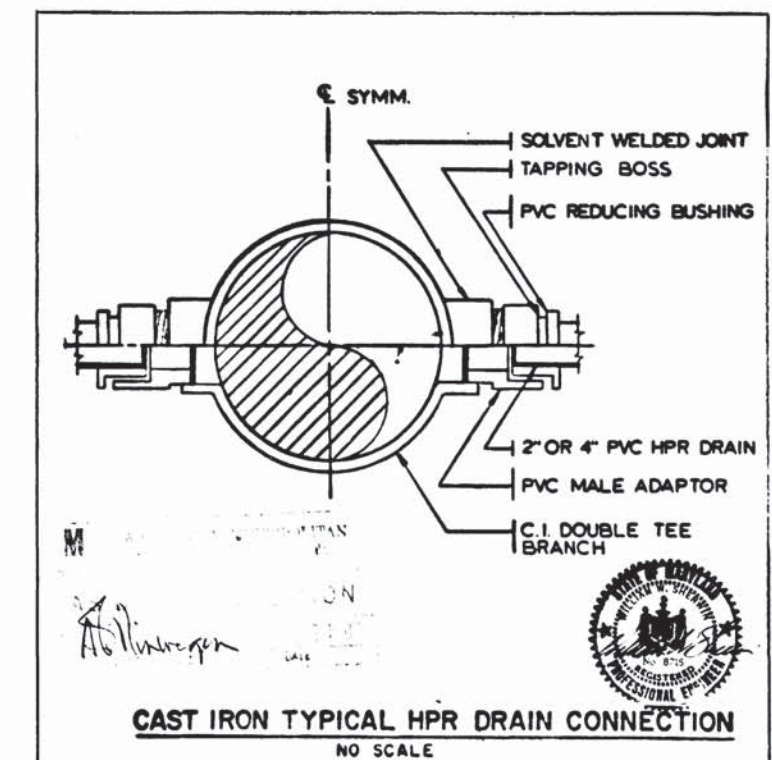
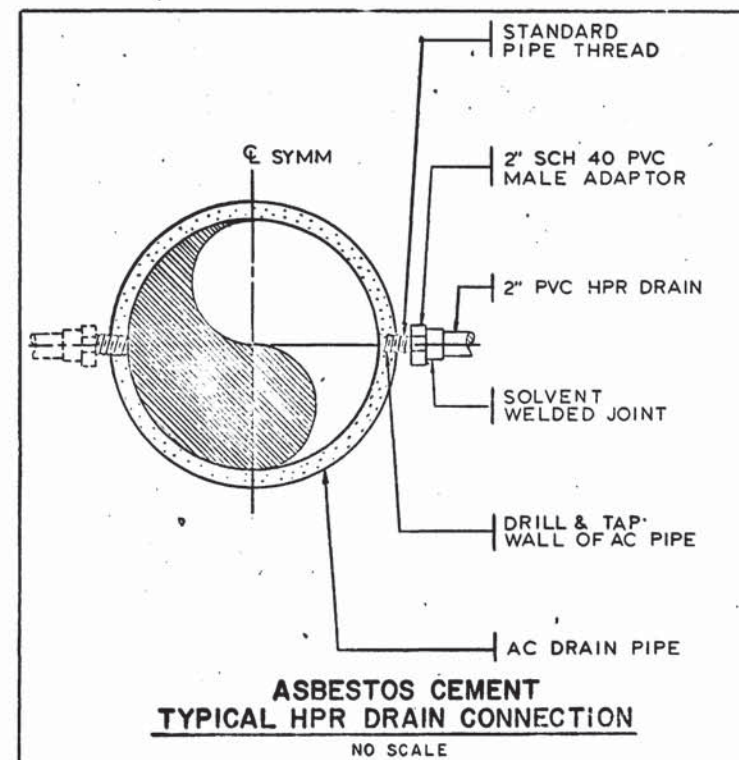
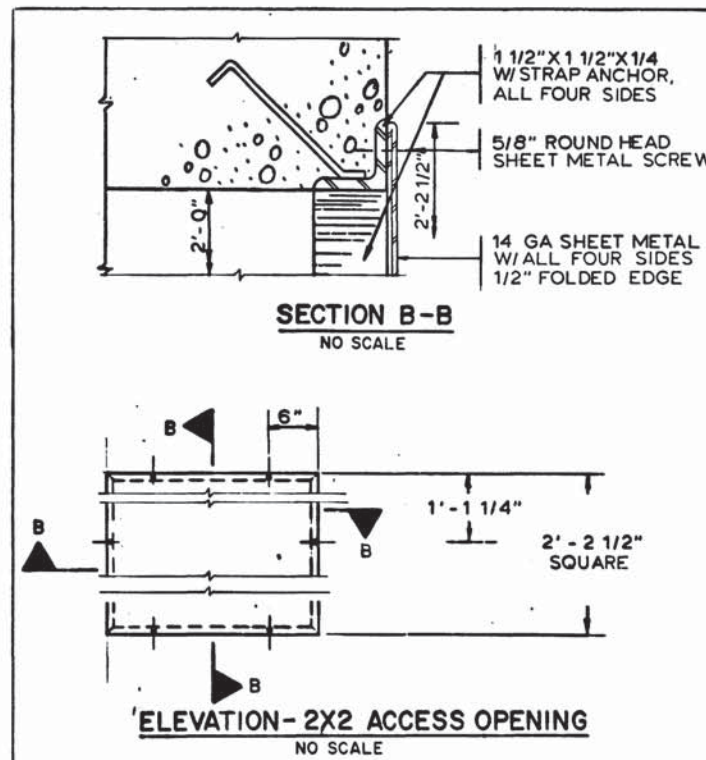
SCALE: AS NOTED

DRAWING NO. A11b-M-50 M276-215

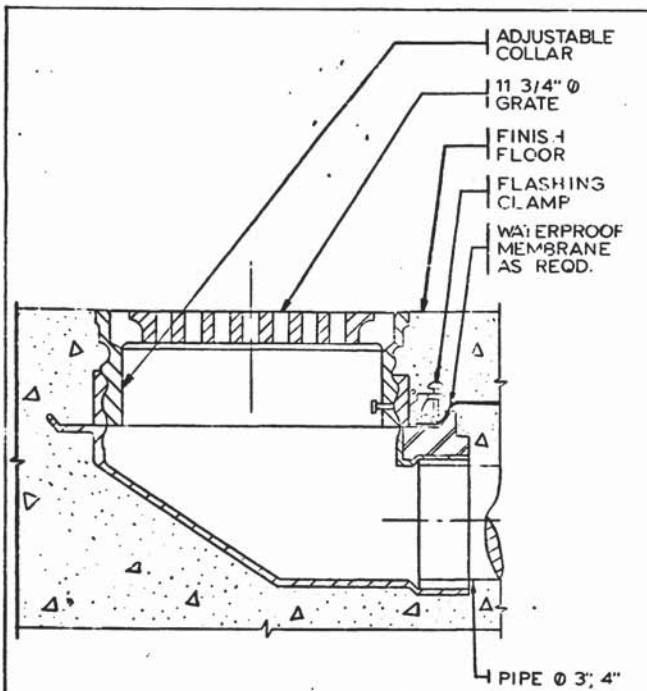


FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS TO MEET UL REQUIREMENTS.

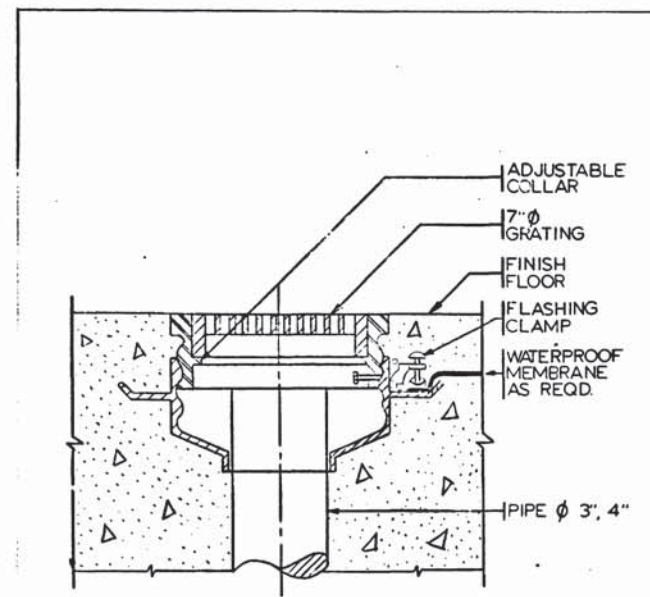
- 1 ACCESS PANEL & DUCTWORK (NIC)
- 2 IIGA SLEEVE SECURE RETAINING ANGLES TO SLEEVE AS RECOMMENDED BY THE MANUFACTURER W/SIZE & SPACING OF FASTENERS TO MEET UL REQUIREMENTS. SLEEVE SHALL EXTEND MIN 2" BEYOND WALL FOR DUCT CONNECTION.
- 3 MASONRY OPENING SHALL BE 3/8" LARGER THAN FD SLEEVE.
- 4 2X1X14 GA RETAINING ANGLE SECURED TO FD SLEEVE ALL FOUR SIDES. DO NOT WELD RETAINING ANGLES AT THEIR CORNER JOINTS OR SECURE TO WALL.
- 5 DEPTH OF NESTED DAMPER ASSEMBLY.
- 6 SLIP JOINT ALL FOUR SIDES. 2 SHEET METAL SCREWS EACH SIDE.
- 7 FUSIBLE LINK
- 8 STEEL CLOSURE SPRING FOR VERTICAL AIR FLOW.
- 9 CURTAIN TYPE FD AS SPECIFIED FOR HORIZONTAL AIR FLOW. SECURE FD TO SLEEVE BY SPOT WELDING.
- 10 CONNECTING DUCTWORK (NIC)
- 11 COORDINATE EXACT WALL OPENING W/MODEL FIRE DAMPER FURNISHED. SEE GENERAL NOTE #12.



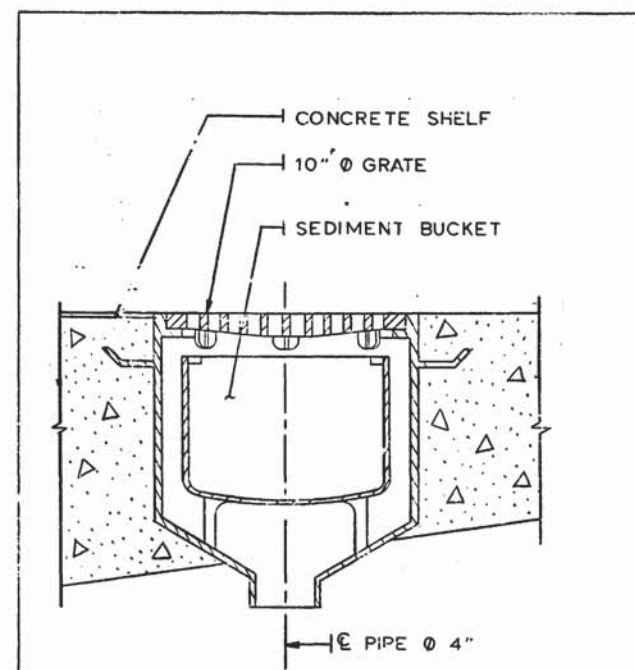
DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS		ARCHITECTURAL REGISTRATION BOARD STATE OF MARYLAND	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY		ROCKVILLE ROUTE DRAINAGE DETAILS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		SCALE	DRAWING NO.	DATE	APPROVED
2-9-76	M. MAHAN	2-9-76	G. GRAYTON	2-9-76	3-25-77	3-25-77	3-25-77		MATHews • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER		DE LEUW, CATHAR & COMPANY GENERAL ENGINEERING CONSULTANT	
									HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT		HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT	
									SUBMITTED <i>Wm Chatman</i> DATE <i>5/14/77</i>		APPROVED <i>Robert M. Weese</i>	
									SCALE AS NOTED		DRAWING NO. A11b-M-49 M276-214	



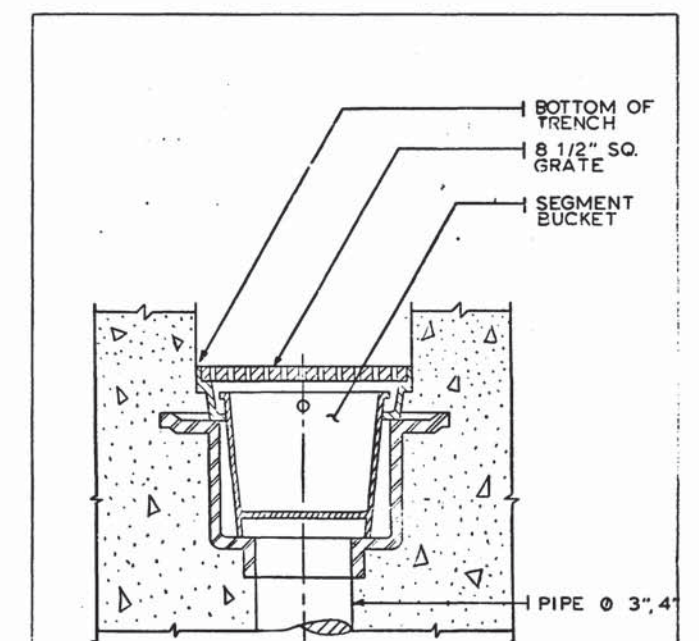
FLOOR DRAIN-1 (FD-1)
SCALE: 3" = 1'-0"



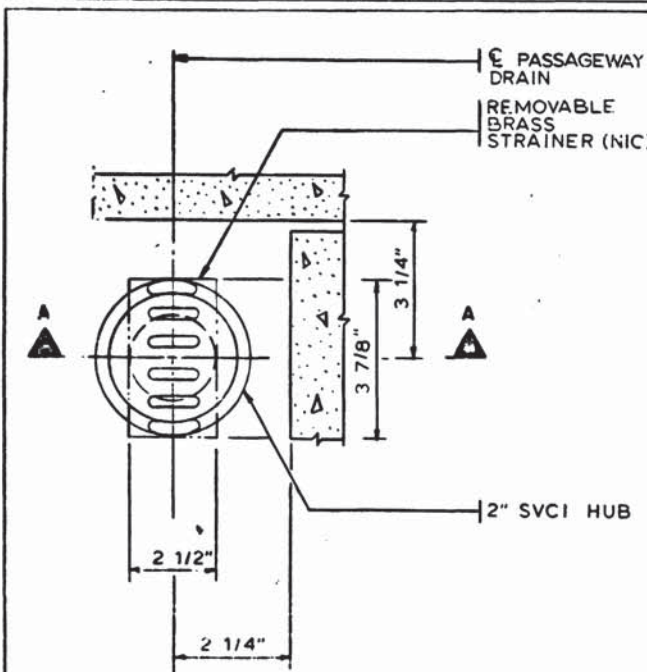
FLOOR DRAIN-2 (FD-2)
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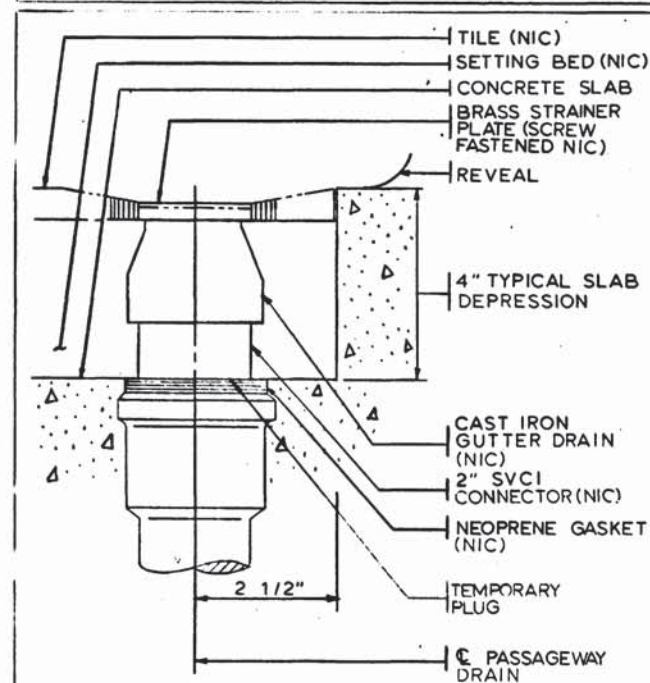
FLOOR DRAIN-3 (FD-3)
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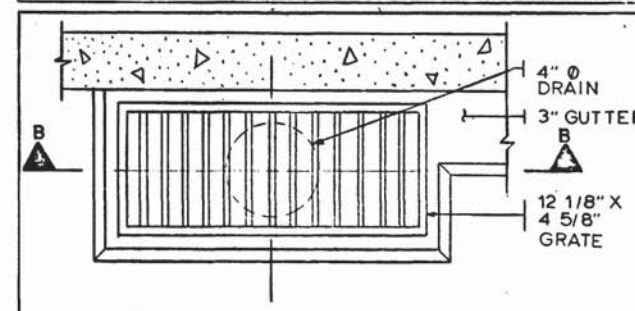
FLOOR DRAIN-4 (FD-4)
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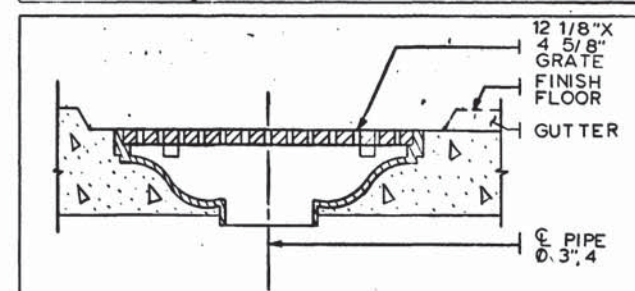
PASSAGEWAY DRAIN DETAIL-PLAN (FD-5)
NO SCALE



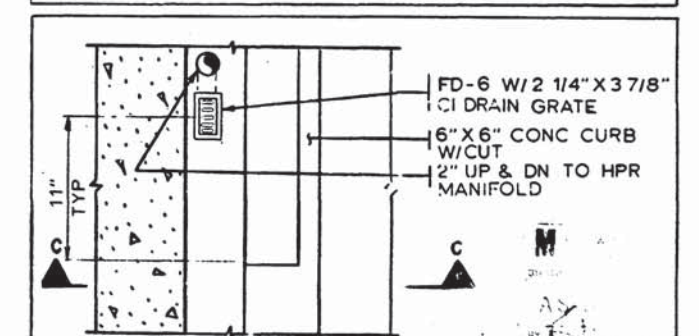
(FD-5) SECTION A-A
NO SCALE



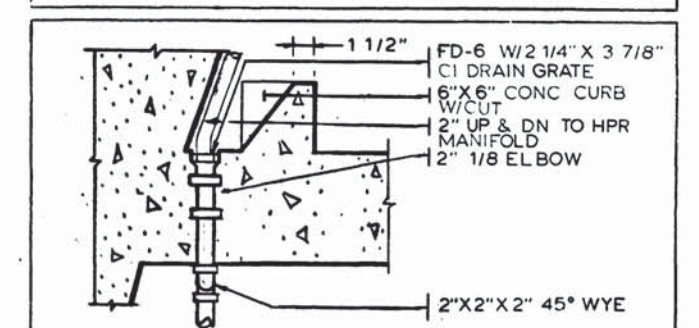
DRAIN INLET-8 PLAN (DI-8)
SCALE: 3" = 1'-0"



(DI-8) SECTION B-B
SCALE: 3" = 1'-0"



GUTTER DRAIN PLAN (FD-6)
SCALE: 1 1/2" = 1'-0"



(FD-6) SECTION C-C
SCALE: 1 1/2" = 1'-0"



DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
M. MAHAN	2-9-76					
G. GRAYTON	2-9-76					
M. MAHAN	3-25-77					
S. MICHAELIS	3-25-77					



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS

SECTION DESIGNER
Jim Chat M

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED *Robert Weese*

DATE *3/26/77*

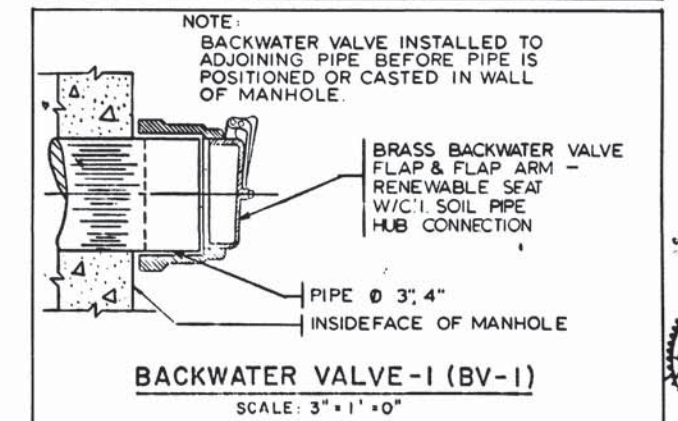
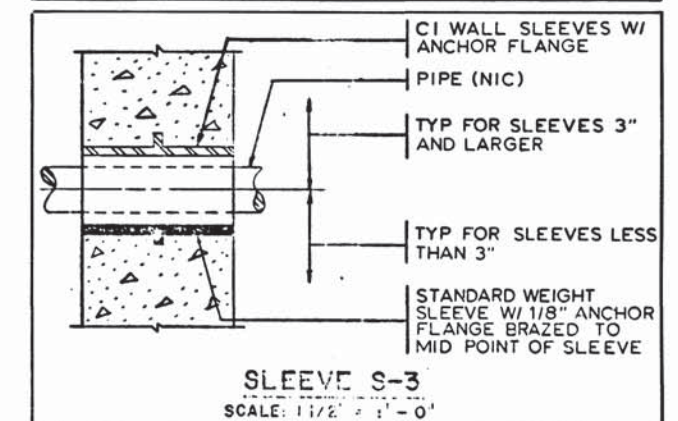
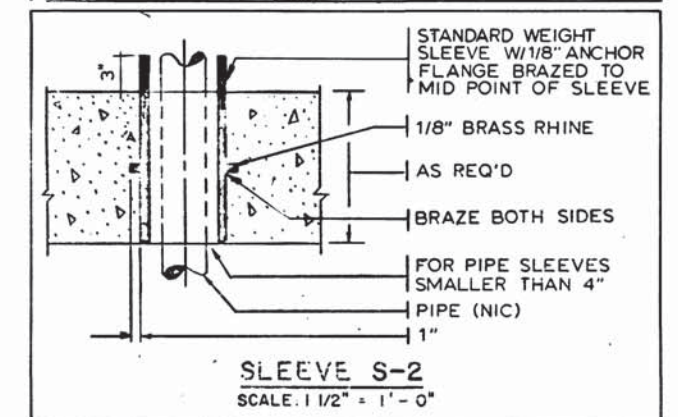
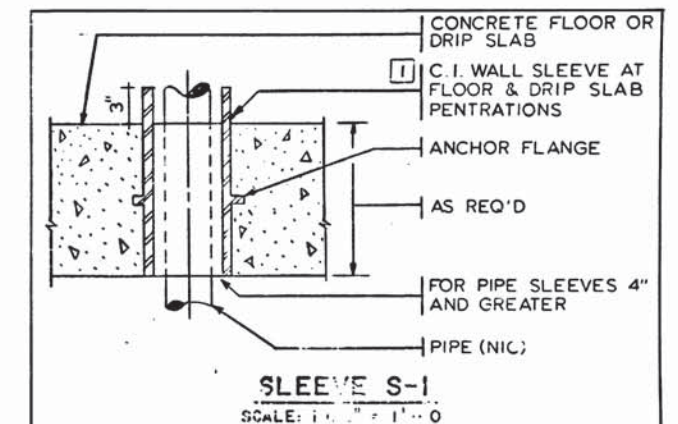
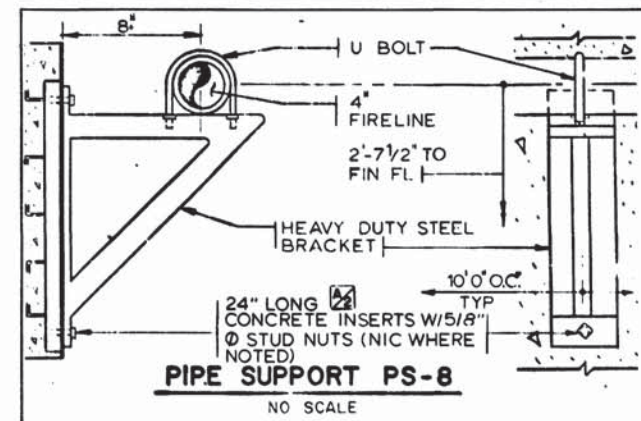
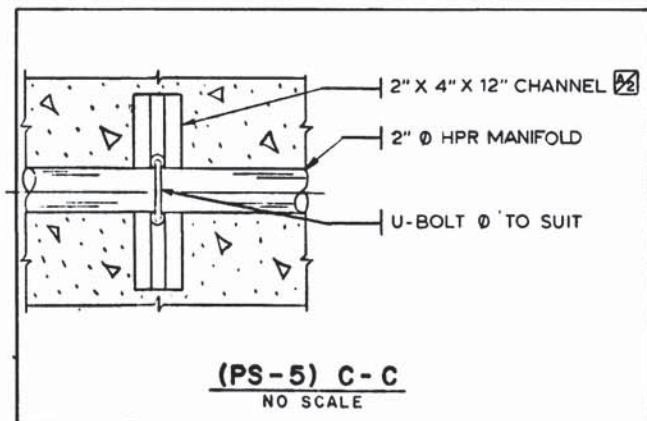
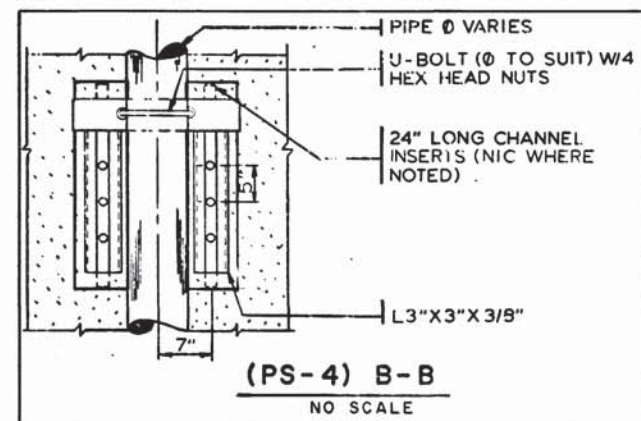
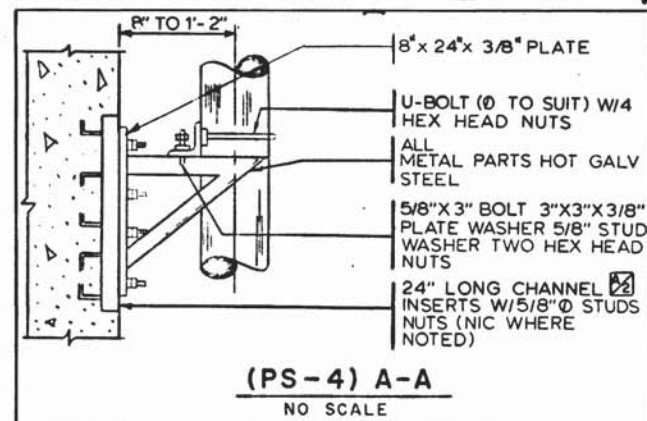
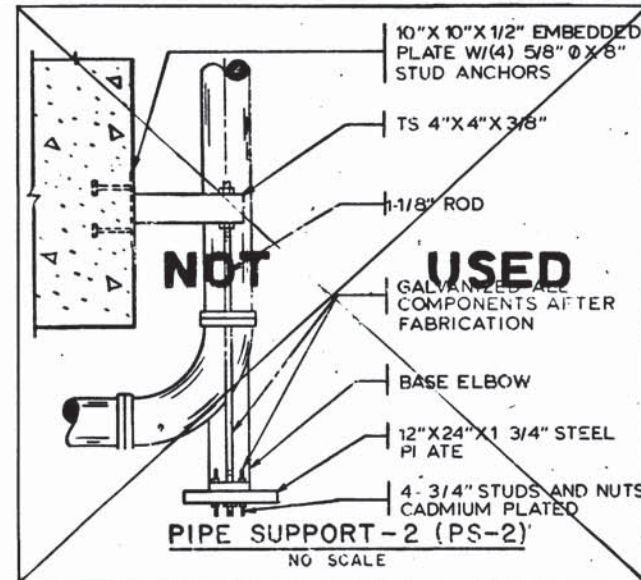
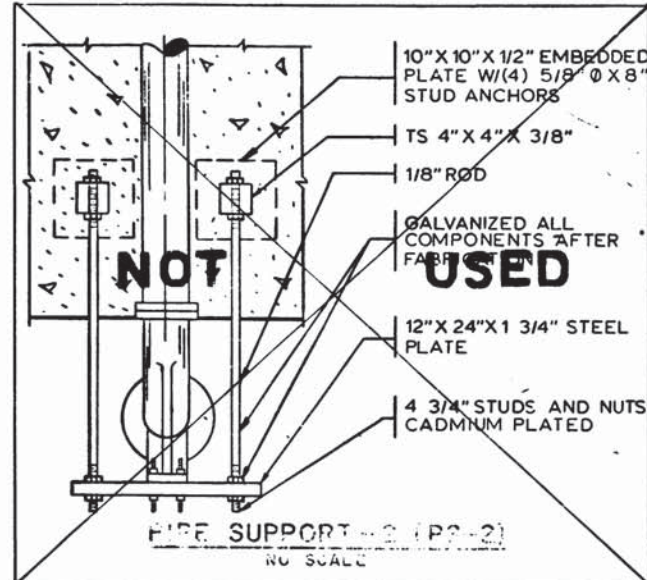
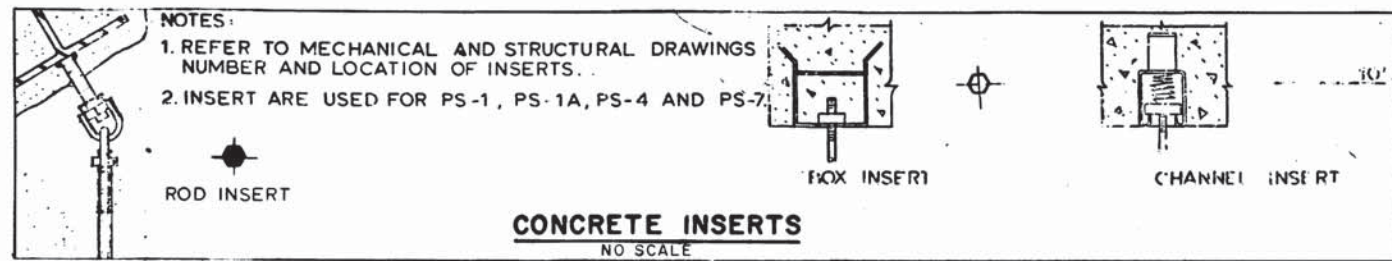
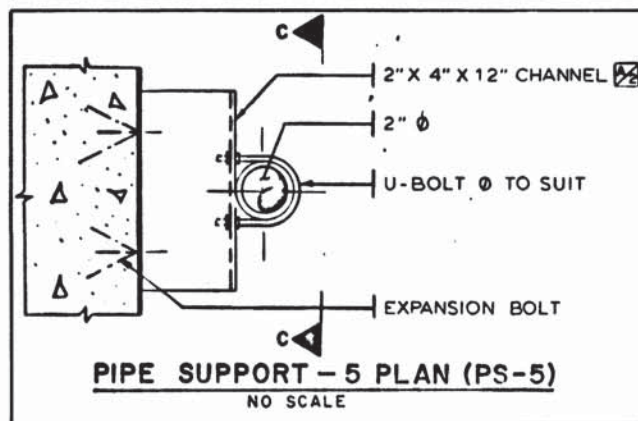
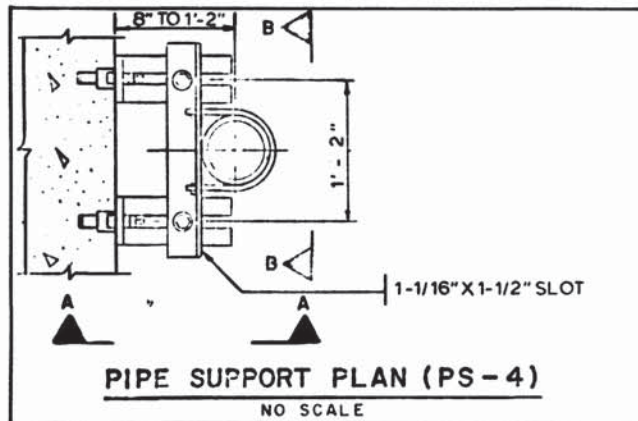
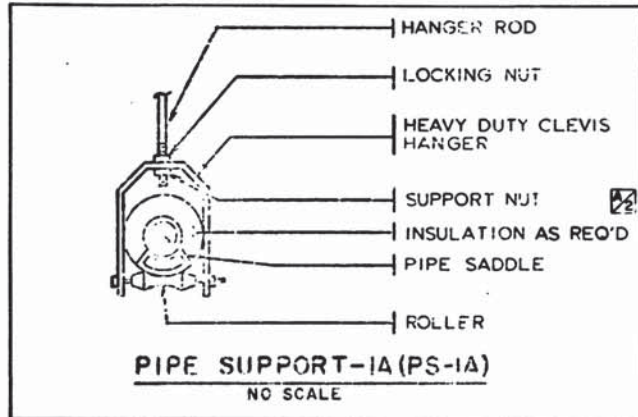
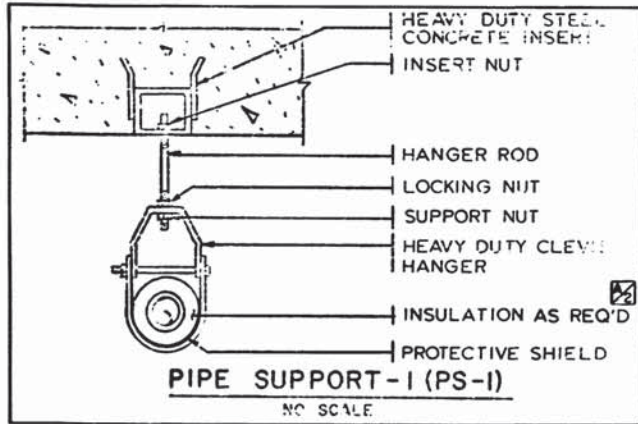
ROCKVILLE ROUTE

DRAINAGE
DETAILS

SCALE: AS NOTED

DRAWING NO. **A11b-M-48**

M276-213



DESIGNED	M. MAHAN	3-20-76
DRAWN	G. GRAYTON	3-20-76
CHECKED	M. MAHAN	3-25-77
APPROVED	S. MICHAELIS	3-25-77

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
1	REVISED PER RFD	3-22-77	MD	



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS

SECTION DESIGNER
Cam Chalmers

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED *Robert A. Weese*

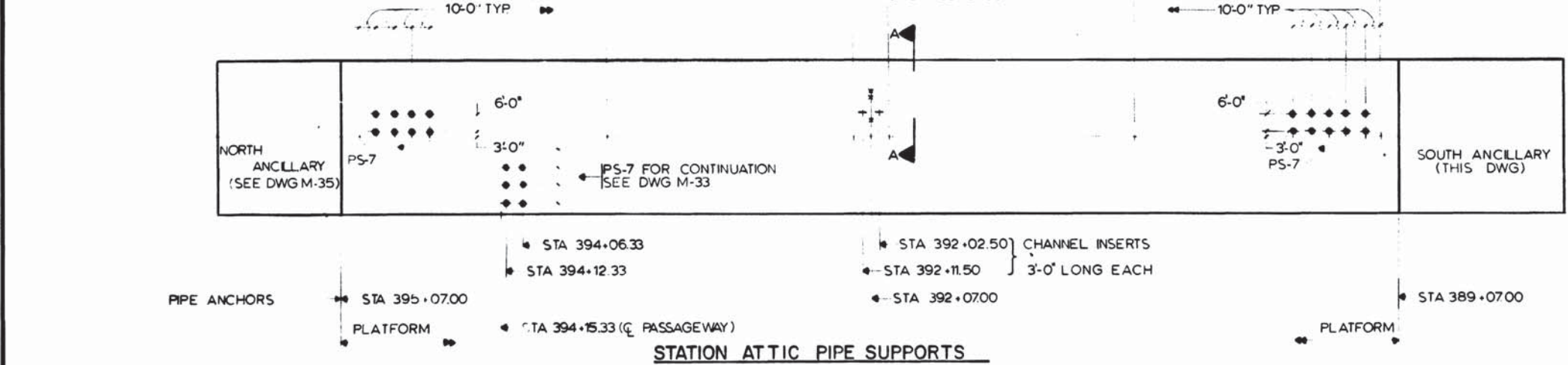
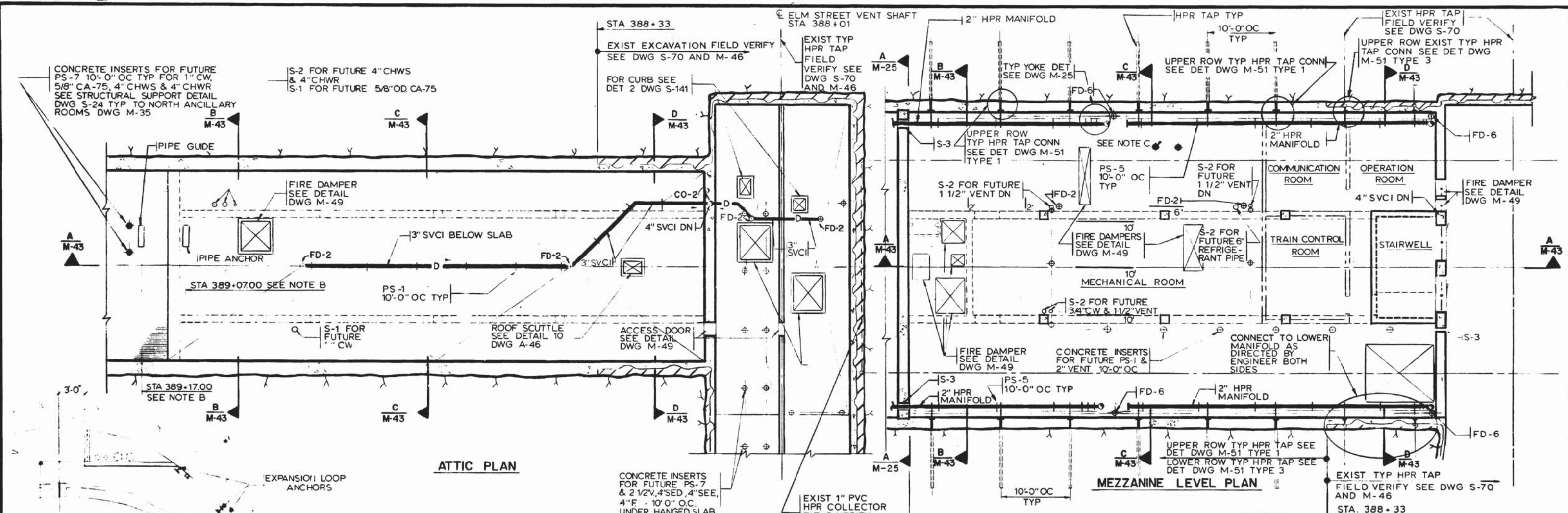
SUBMITTED *Cam Chalmers* DATE 5/12/77

ROCKVILLE ROUTE

PIPE SUPPORT AND SLEEVE DETAILS

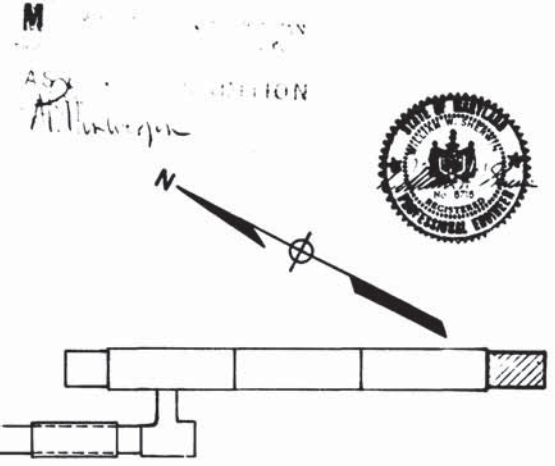
SCALE: AS NOTED

DRAWING NO. A11b-M-47 M276-212



PIPE SUPPORTS MOUNTING HEIGHTS ABOVE TOP OF RAIL	
PIPE GUIDES	33.94'
END STATION PIPE ANCHORS	34.58'
PS-7 EXCEPT PASSAGE WAY	33.96'

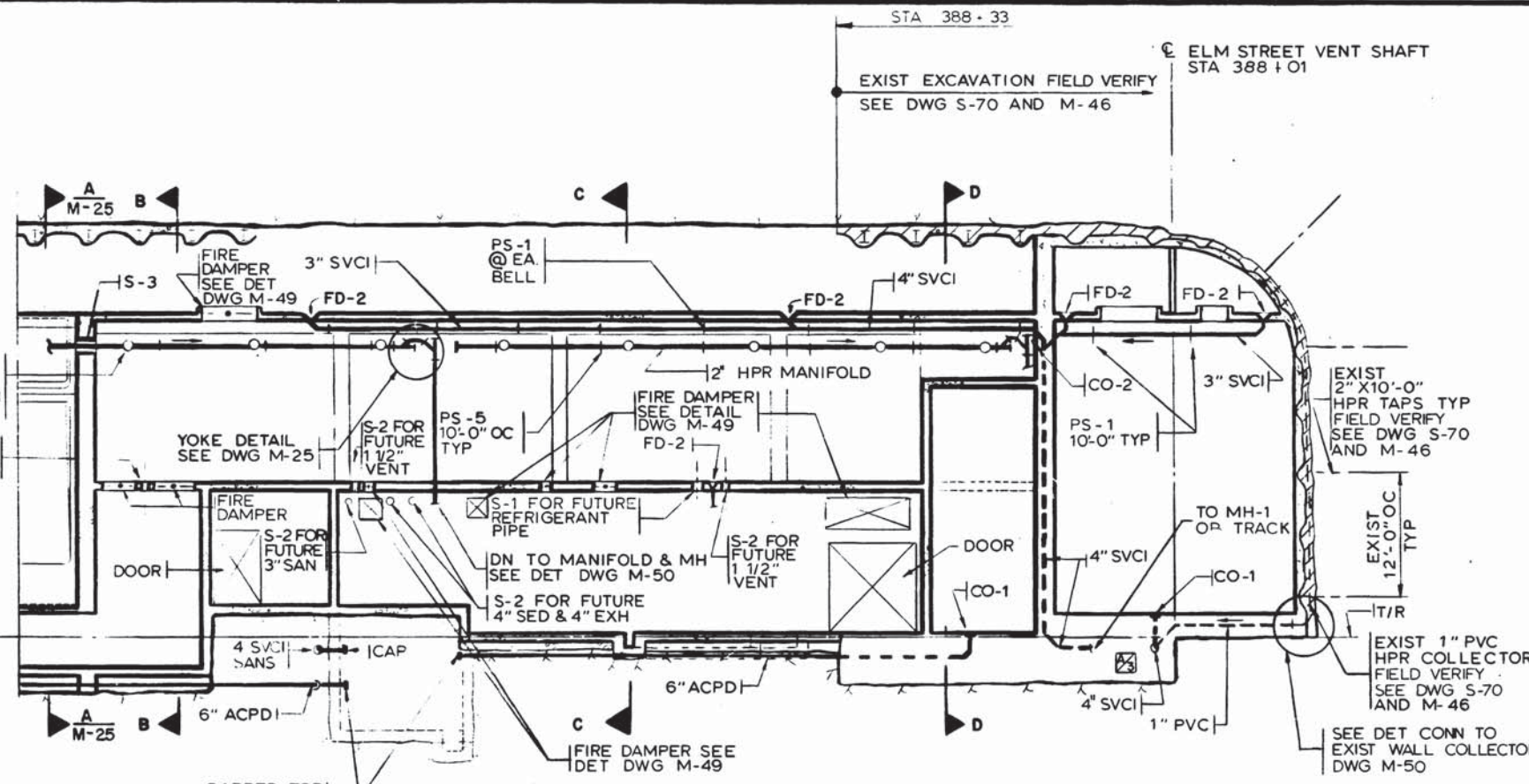
- NOTES**
- A. SEE DRAWINGS M-25 & M-51 FOR STATION HPR DETAILS.
 - B. PIPE ANCHOR, PIPE GUIDES AND PS-7 SHALL BE AS DETAILED ON DWG A11b-S-24 THE STATION POINTS INDICATED ON THIS DRAWING IN REFERENCE TO THE LOCATION OF SAID ANCHORS AND GUIDES SHALL BE TO THE CLOSEST RIB.
 - C. 12" LONG 1/2" Ø THREADED ROD WELDED TO W14x61 10'-0" ABV FIN FLR - PROTECT THREAD



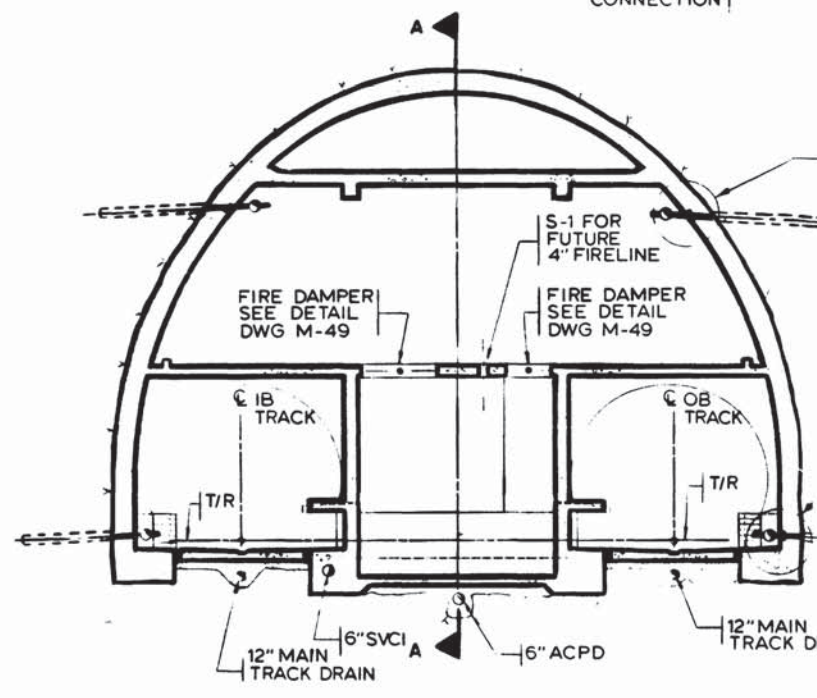
DESIGNED M MAHAN 12-18-74 DRAWN H HAN 12-21-74 CHECKED M MAHAN 3-25-77 APPROVED S MICHAELIS 3-25-77	REFERENCE DRAWINGS <table border="1"> <thead> <tr> <th>NUMBER</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>REVISIONS</th> </tr> </thead> <tbody> <tr> <td>S-168</td> <td>SOUTH SERVICE AREA PLANS & SECTIONS</td> <td>12-22-74</td> <td>MD</td> <td>REVISED PER SACS</td> </tr> <tr> <td>A-27</td> <td>ANCILLARY SPACES-MEZZANINE LEVEL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>E-9</td> <td>NORTH & SOUTH ANCILLARY SPACES-MEZZ LEVEL</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NUMBER	DESCRIPTION	DATE	BY	REVISIONS	S-168	SOUTH SERVICE AREA PLANS & SECTIONS	12-22-74	MD	REVISED PER SACS	A-27	ANCILLARY SPACES-MEZZANINE LEVEL				E-9	NORTH & SOUTH ANCILLARY SPACES-MEZZ LEVEL				REVISIONS <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>12-22-74</td> <td>MD</td> <td>REVISED PER SACS</td> </tr> </tbody> </table>	DATE	BY	DESCRIPTION	12-22-74	MD	REVISED PER SACS	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY MATHEWS • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT	ROCKVILLE ROUTE BETHESDA STATION SOUTH ANCILLARY SPACES MEZZANINE LEVEL SCALE 1/8" = 1'-0" DRAWING NO. A11b-M-44 M276-210
NUMBER	DESCRIPTION	DATE	BY	REVISIONS																										
S-168	SOUTH SERVICE AREA PLANS & SECTIONS	12-22-74	MD	REVISED PER SACS																										
A-27	ANCILLARY SPACES-MEZZANINE LEVEL																													
E-9	NORTH & SOUTH ANCILLARY SPACES-MEZZ LEVEL																													
DATE	BY	DESCRIPTION																												
12-22-74	MD	REVISED PER SACS																												

NOTES

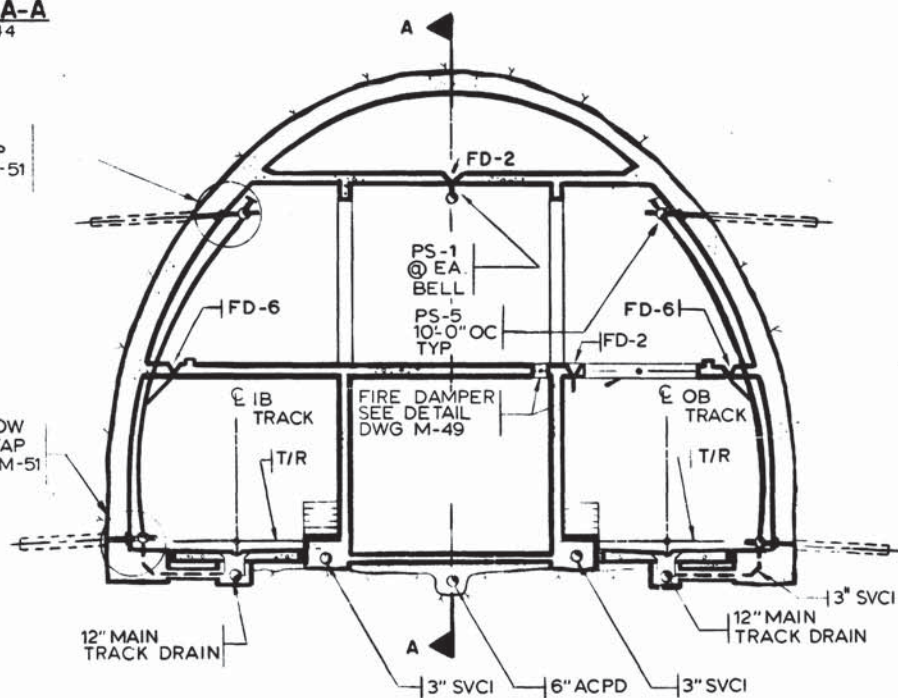
A. SEE DRAWINGS M-25 AND M-51 FOR STATION HPR DETAILS.



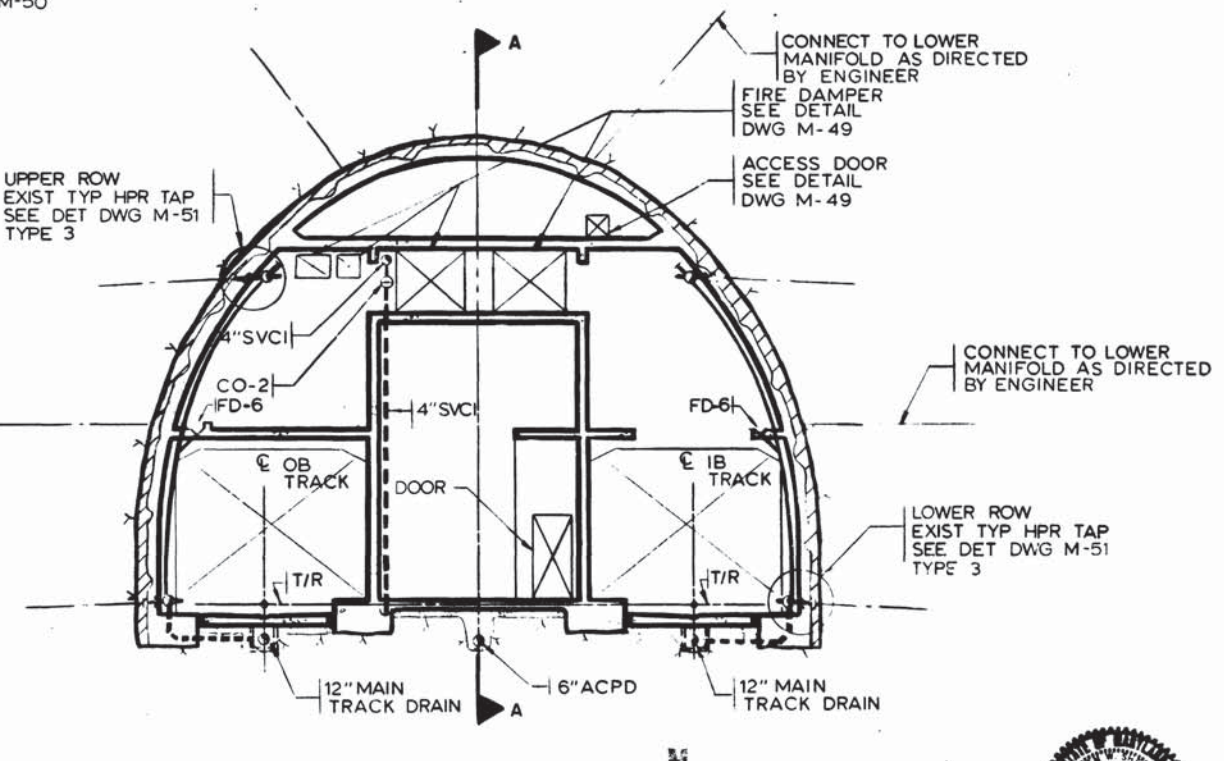
SECTION A-A
M-41, M-44



SECTION B-B
M-41, M-44



SECTION C-C
M-41, M-44



SECTION D-D
M-41, M-44

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
S-169	SOUTH SERVICE AREA SECTION A-A & DETAILS	10-12-77	S.M.	REVISED PLUMBING LAYOUT IN ADIT			
S-170	SOUTH SERVICE AREA SECTION B-B & DETAILS						
S-171	SOUTH SERVICE AREA SECTION C-C & DETAILS						
S-172	SOUTH SERVICE AREA SECTION D-D & DETAILS						
A-33	ANCILLARY SPACES - DRIP SLAB						

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS

SECTION DESIGNER
Cam Chatman

SUBMITTED DATE 5/12/77

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

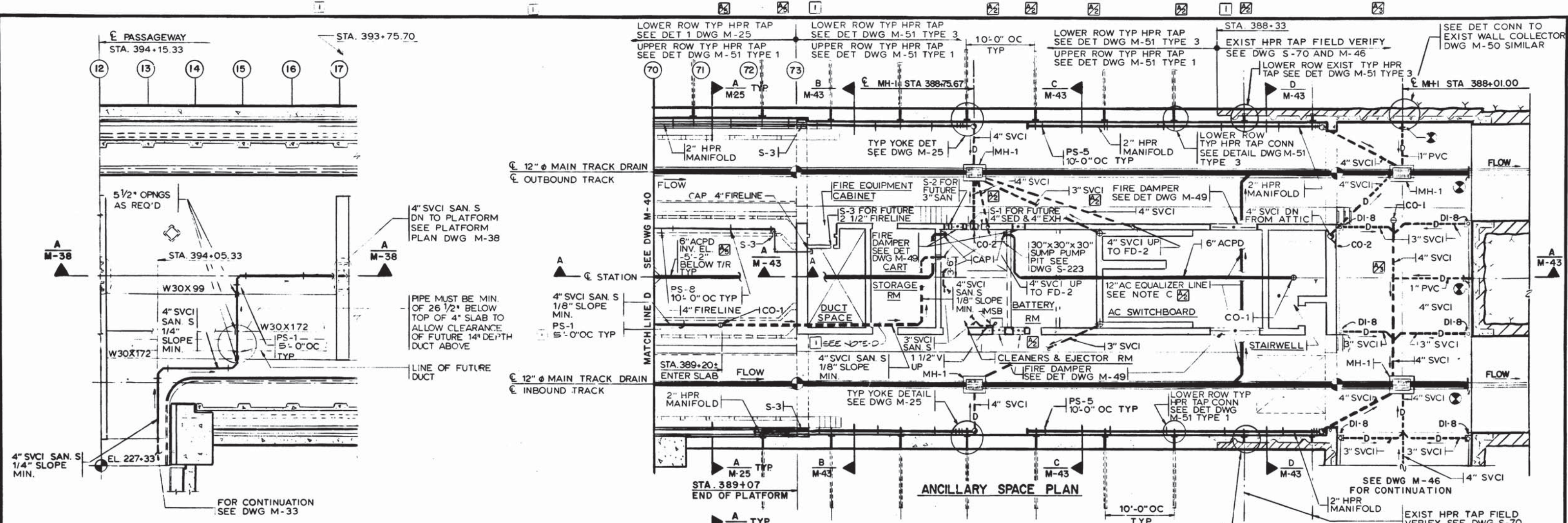
APPROVED *Robert M. Mathews*

**ROCKVILLE ROUTE
BETHESDA STATION**

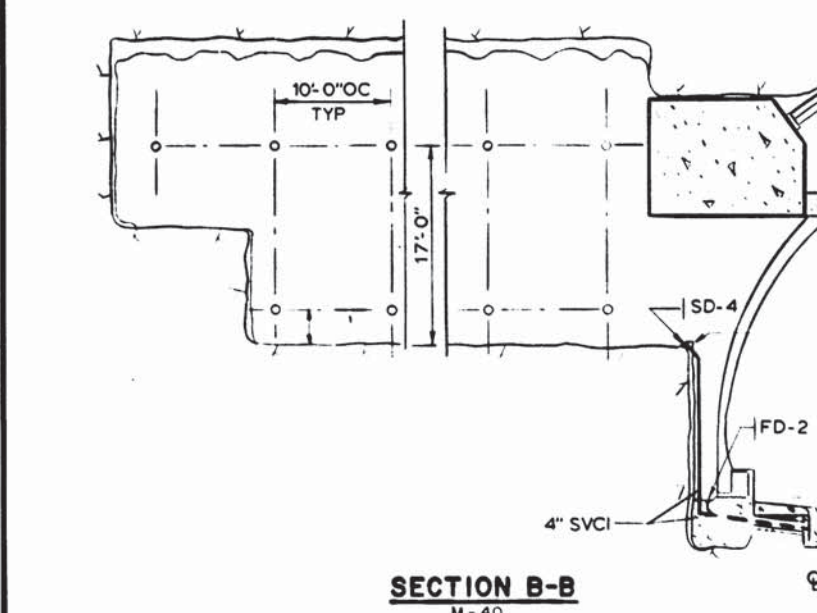
SOUTH ANCILLARY SPACE SECTION

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

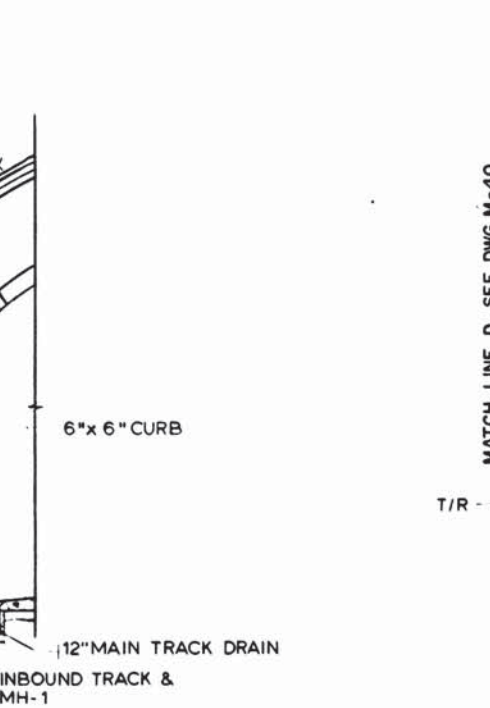
DRAWING NO. A11b-M-43 M276-209



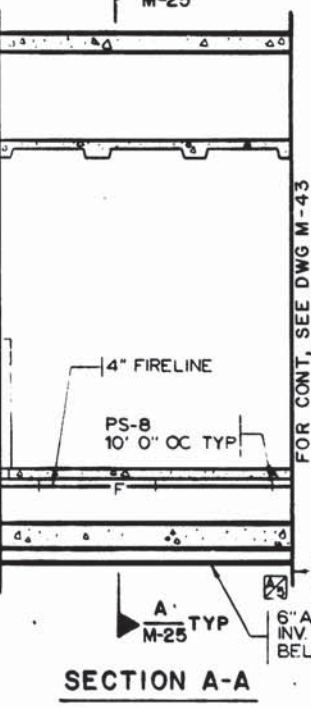
PARTIAL MEZZANINE PLAN ABOVE PLATFORM
SEE STRUCTURAL DWG S-152 M-38



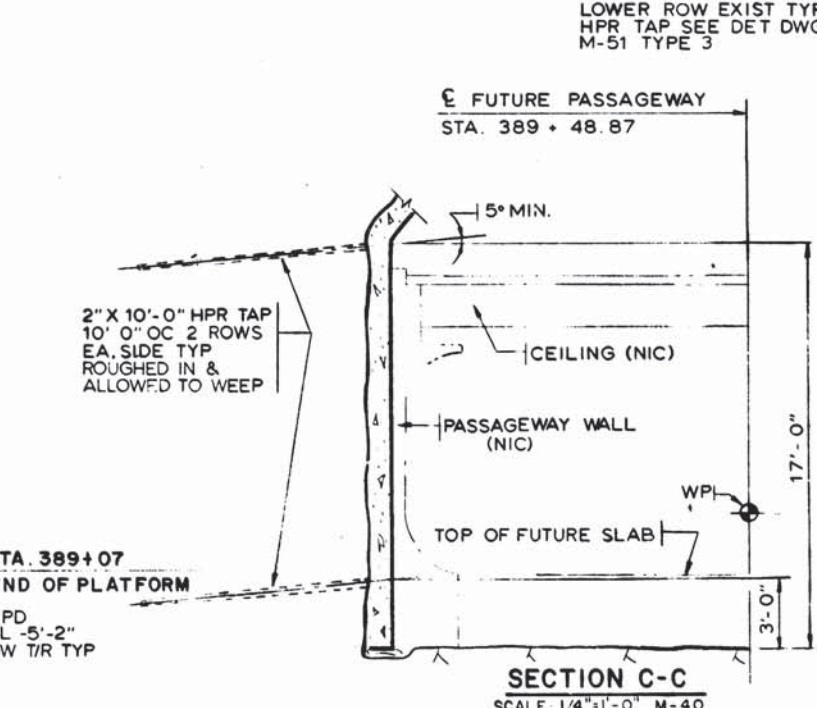
DESIGNED		DRAWN		CHECKED		APPROVED	
M. MAHAN	12-15-74	H. HAN	12-15-74	M. MAHAN	3-25-77	S. MICHAELIS	3-25-77



REFERENCE DRAWINGS		REVISIONS	
S-147	PLATFORM PLAN STA 391+07 TO STA 389+07	7-8-77	S.M. EQUALIZER LINE - 2-4" SVCI FROM MH-1 & BATTERY ROOM OPENINGS CHANGED
S-168	SOUTH SERVICE AREA PLANS AND SECTIONS	10-12-77	S.M. REVISED PLUMBING LAYOUT IN ADIT
A-26	PLATFORM PLAN AND SECTION	11-28-77	S.M. INDICATED UNDER PLATFORM DRAIN
A-27	ANCILLARY SPACES - MEZZANINE LEVEL		
E-7	PLATFORM PLAN STA 391+07 TO STA 389+07		
E-9	NORTH & SOUTH ANCILLARY SPACES - MEZZ LEVEL		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY	
MATHEWS • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER <i>Cam Chatman</i>	DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT <i>Robert W. Weese</i>



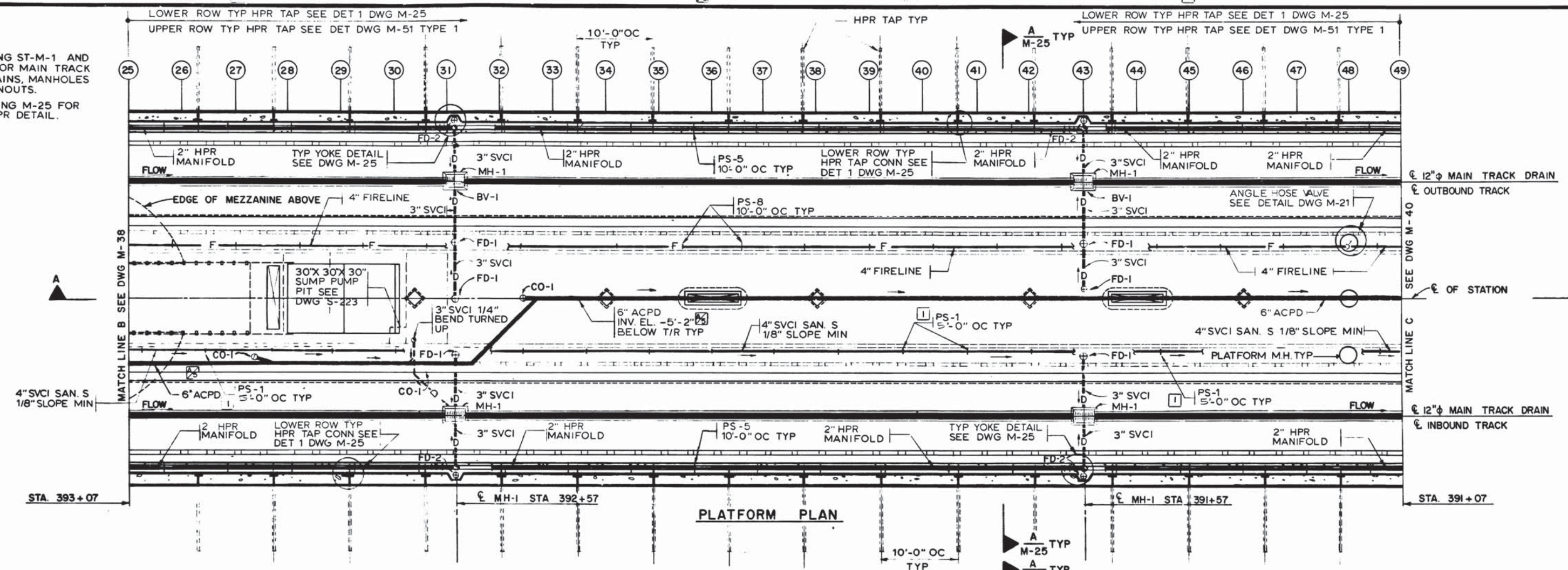
- NOTES**
- SEE DRAWINGS ST-M-1 AND ST-M-91 FOR MAIN TRACK DRAINS, MANHOLES AND CLEANOUTS.
 - SEE DRAWINGS M-25 AND M-51 FOR STATION HPR DETAILS.
 - CONTRACTOR SHALL VERIFY EXISTING MAIN TRACK DRAIN INVERTS FOR INBOUND AND OUTBOUND TRACKS OF A-10 CONTRACT BEFORE INSTALLATION OF A11B CONTRACT MAIN TRACK DRAINS. ANY INVERT ADJUSTMENT SHALL BE MADE FROM STA. 389+57 SOUTHWARD AS APPROVED BY THE ENGINEER. USE ALTERNATE EQUALIZER LINE LOCATED AT STA. 380+57 WHEN MINIMUM SLOPE OF 35% CANNOT BE HELD OR AS DIRECTED BY THE ENGINEER.
 - WRAP THE ENTIRE EMBEDDED LENGTH WITH 1" BLANKET FIBERGLASS INSULATION AND ALUMINUM OR GALVANIZED STEEL ACE.



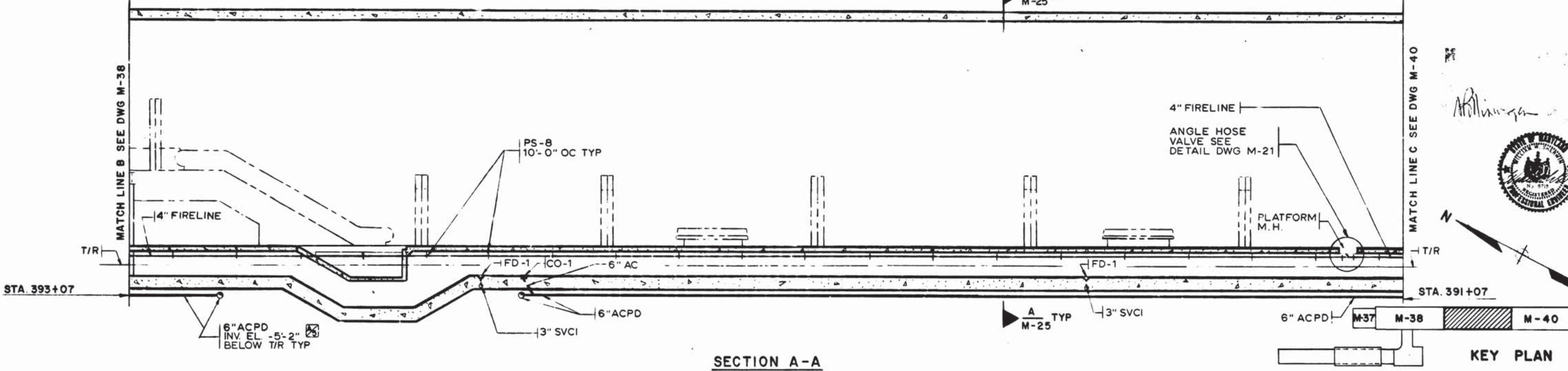
SCALE 1/4" = 1'-0"	DRAWING NO. A11b-M-41	M276-208
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NOTES

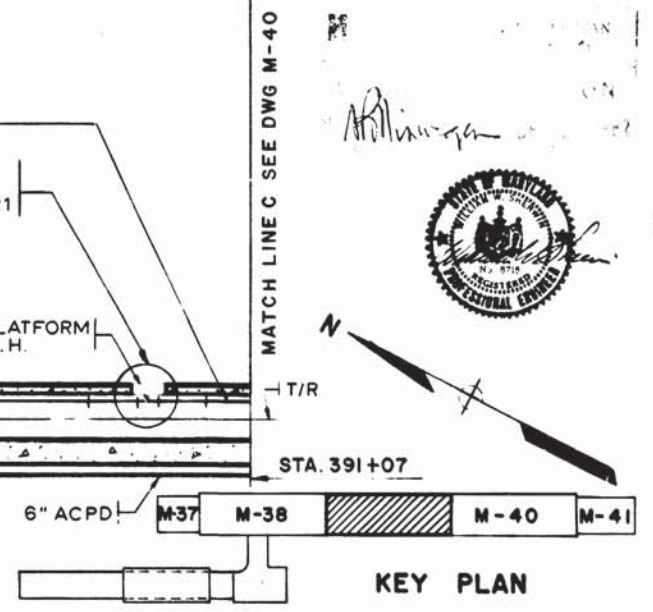
- A. SEE DRAWING ST-M-1 AND ST-M-91 FOR MAIN TRACK DRAINS, MANHOLES AND CLEANOUTS.
- B. SEE DRAWING M-25 FOR STATION HPR DETAIL.



PLATFORM PLAN



SECTION A-A



KEY PLAN

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	NUMBER	DESCRIPTION	DATE	BY
M-146	PLATFORM PLAN STA 393+07 TO STA 391+07	11-28-77	S.M.	A-25	PLATFORM PLAN AND SECTION		
E-6	PLATFORM PLAN STA 393+07 TO STA 391+07						



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS
SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *Jim Hartman* DATE *2/12/78* APPROVED *Robert [Signature]*

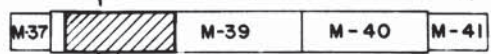
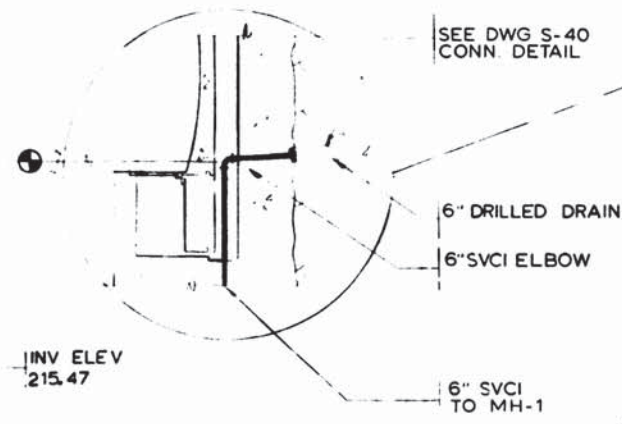
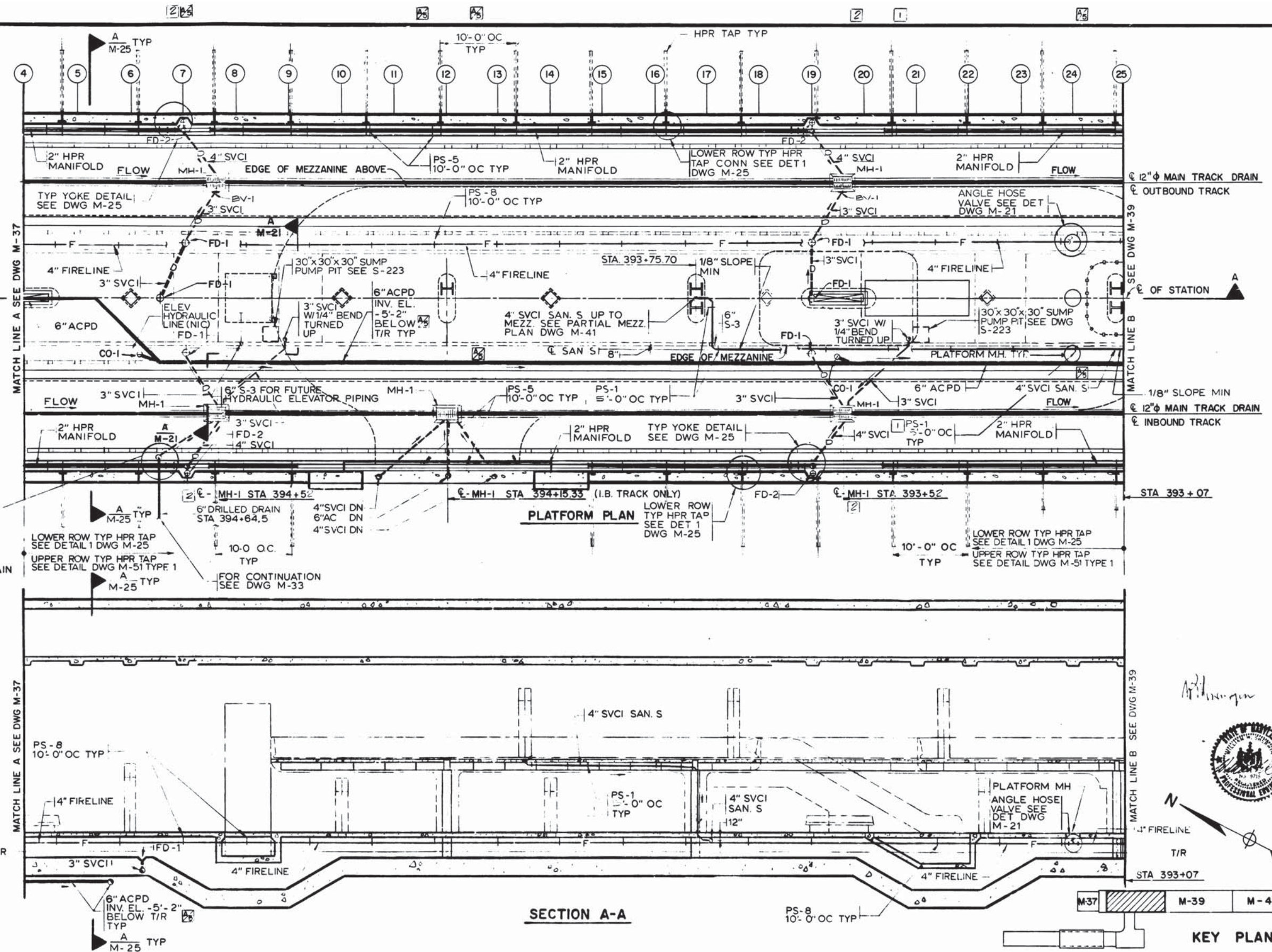
ROCKVILLE ROUTE
BETHESDA STATION
PLATFORM PLAN

SCALE: 1/8" = 1'-0" AND AS NOTED

DRAWING NO. **A11b-M-39** M276-206

NOTES:

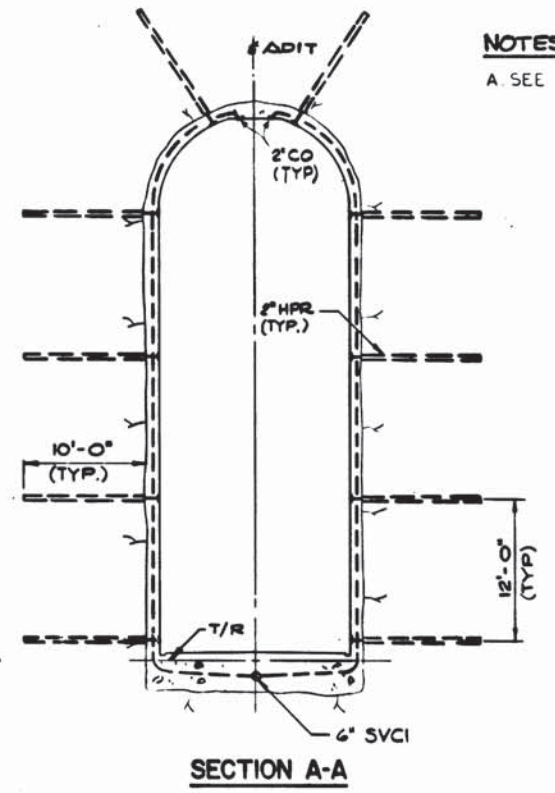
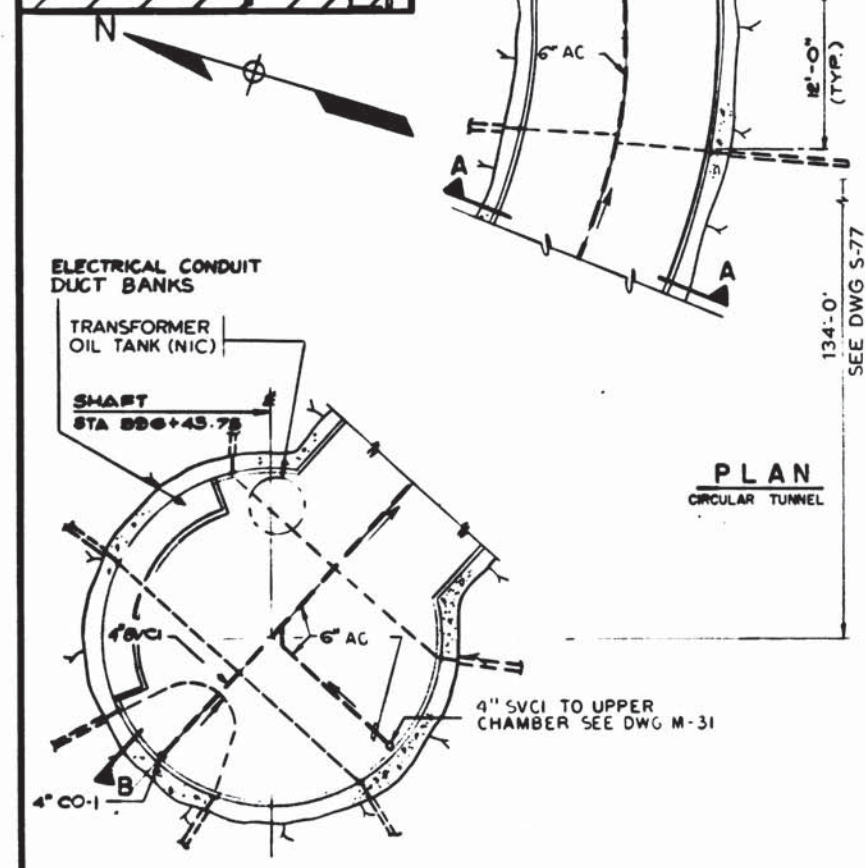
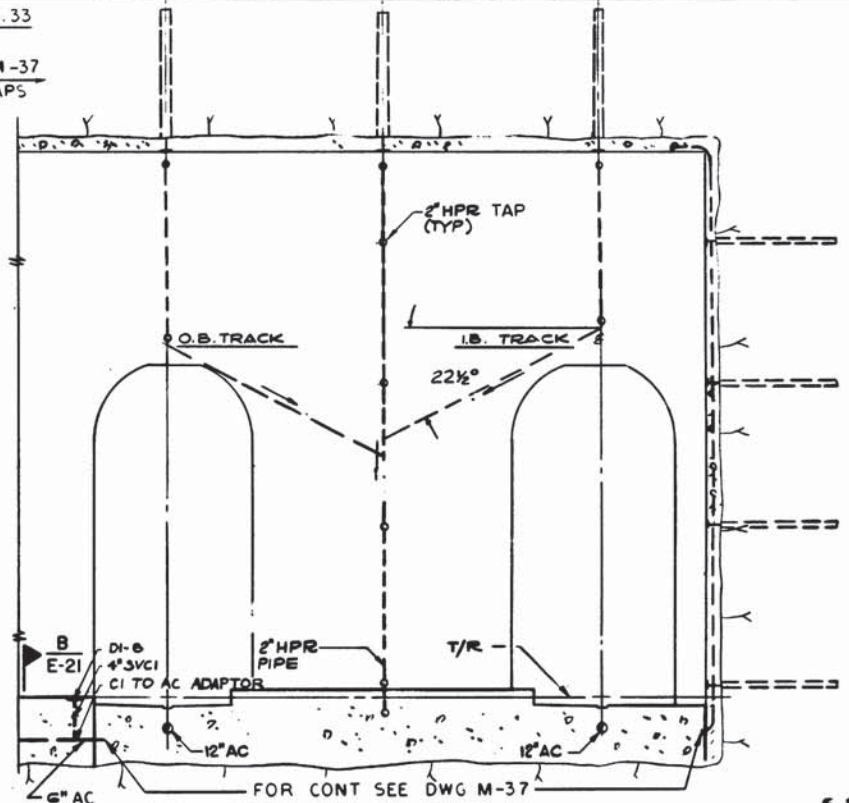
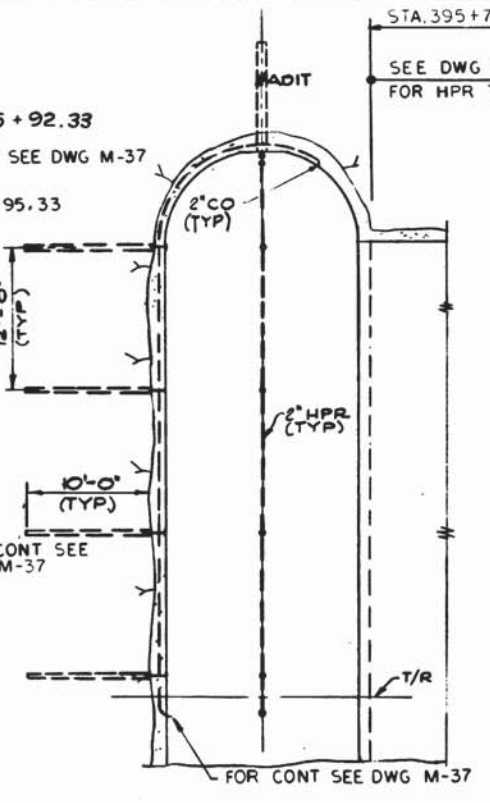
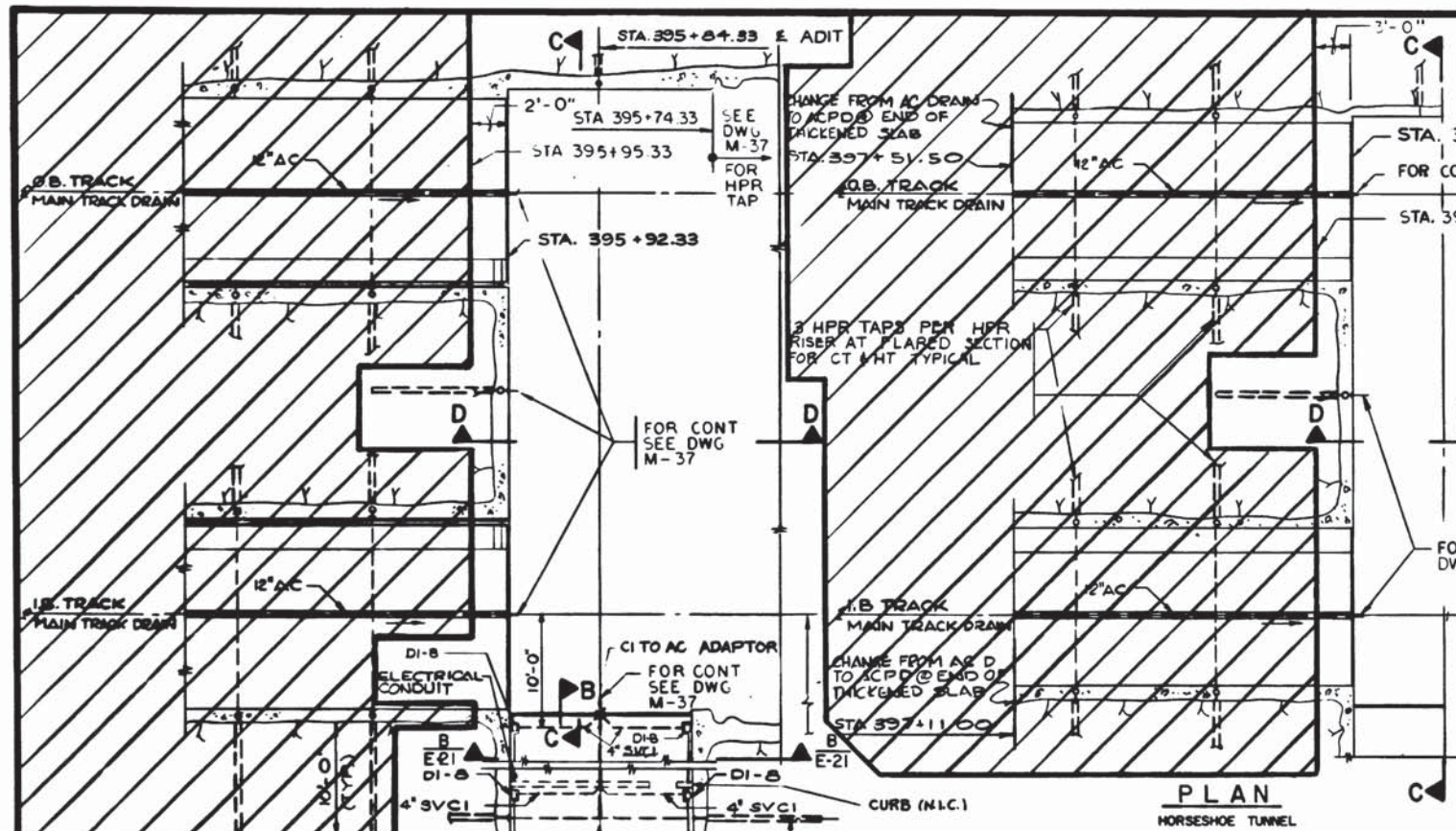
- A. SEE DRAWINGS ST-M-1 AND ST-M-91 FOR MAIN TRACK DRAINS, MANHOLES AND CLEANOUTS.
- B. SEE DRAWING M-25 FOR STATION HPR DETAILS.



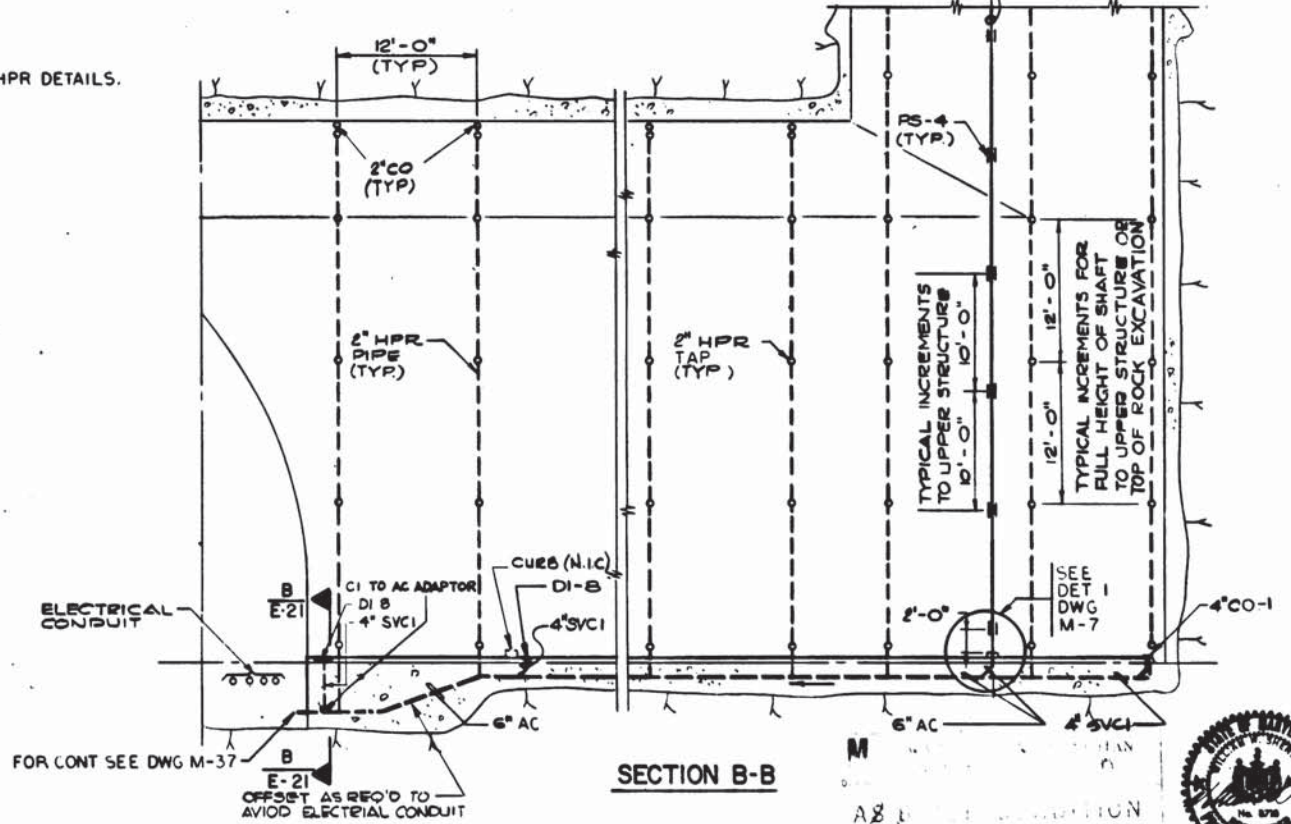
SECTION A-A

KEY PLAN

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY			ROCKVILLE ROUTE	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	MATHews • CHATELAIN • BEALL			BETHESDA STATION	
M-141		2-14-75		S-14*	11-28-77	S.M.	RELOCATED 6" UNDER PLATFORM DRAIN AND INDICATED INVERT	DE LEUW, CATHER & COMPANY			STATION	
L. HUNT		2-14-75		A-24				GENERAL ENGINEERING CONSULTANT			PLATFORM PLAN	
M. MAHAN		3-25-77		E-5				HARRY WEESE & ASSOCIATES			DRAWING NO.	
S. MICHAELIS		3-25-77						GENERAL ARCHITECTURAL CONSULTANT			A11b-M-38	
								SUBMITTED			M276-205	



NOTES
 A. SEE DRAWINGS M-49 & M-50 FOR HPR DETAILS.



DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5-77	NORTH VENT SHAFT CONCRETE LINING						
E-214	TRACTION POWER CONDUIT STA. 395+84.33						



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
 ENGINEERS AND ARCHITECTS
 SECTION DESIGNER

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

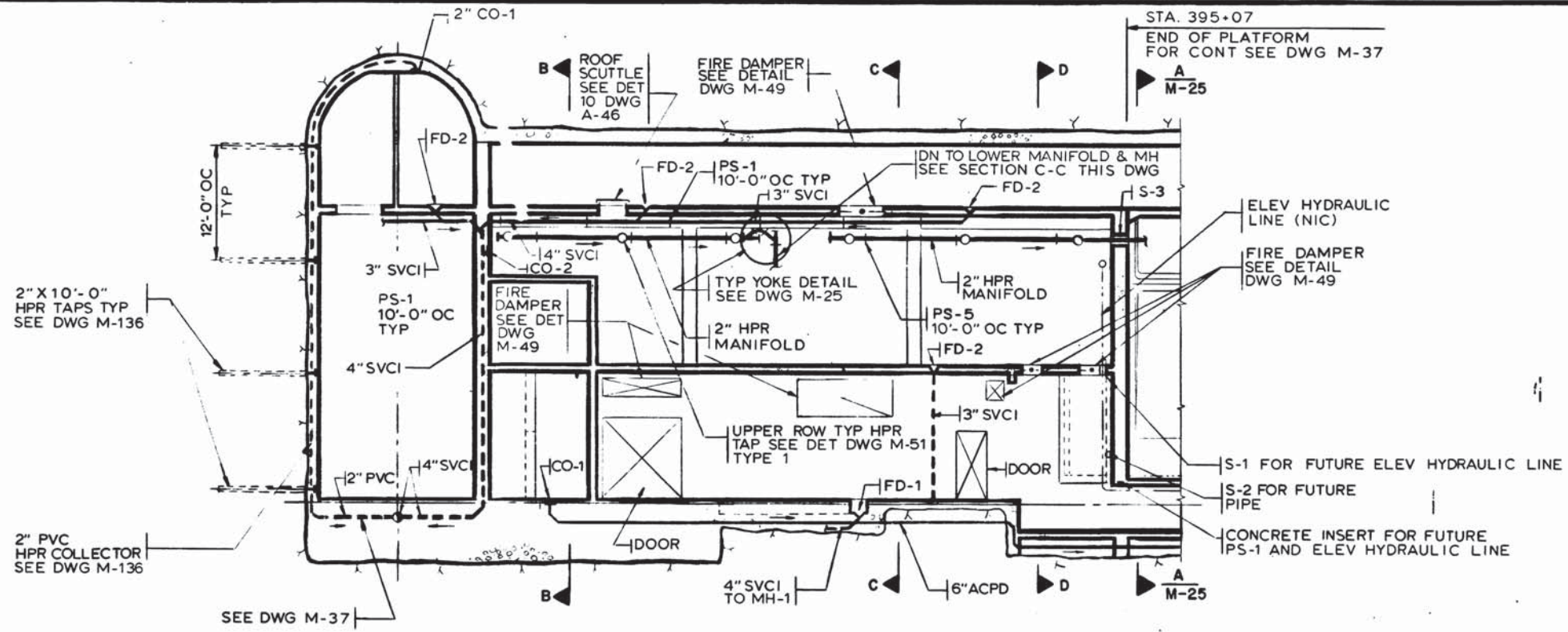
DATE: 2-10-75

ROCKVILLE ROUTE
 BETHESDA STATION NORTH VENT SHAFT
 LOWER LEVEL PLAN AND SECTION

SCALE: 1" = 1'-0" AND AS NOTED

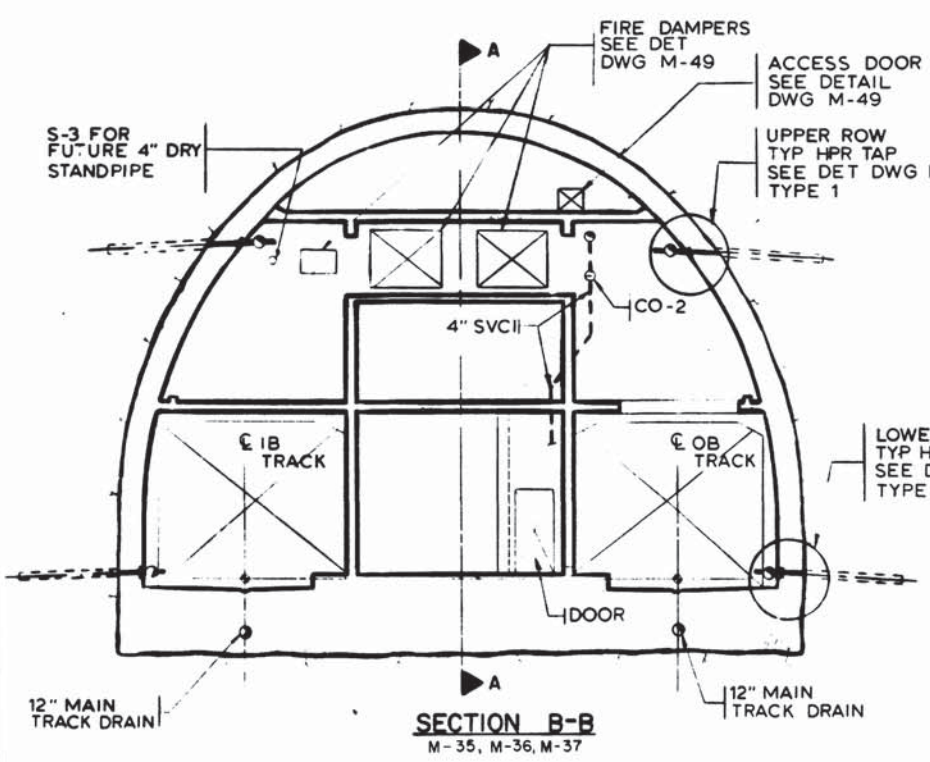
DRAWING NO. A11b-M-136 M276-203

DATE: DEC 27 1982

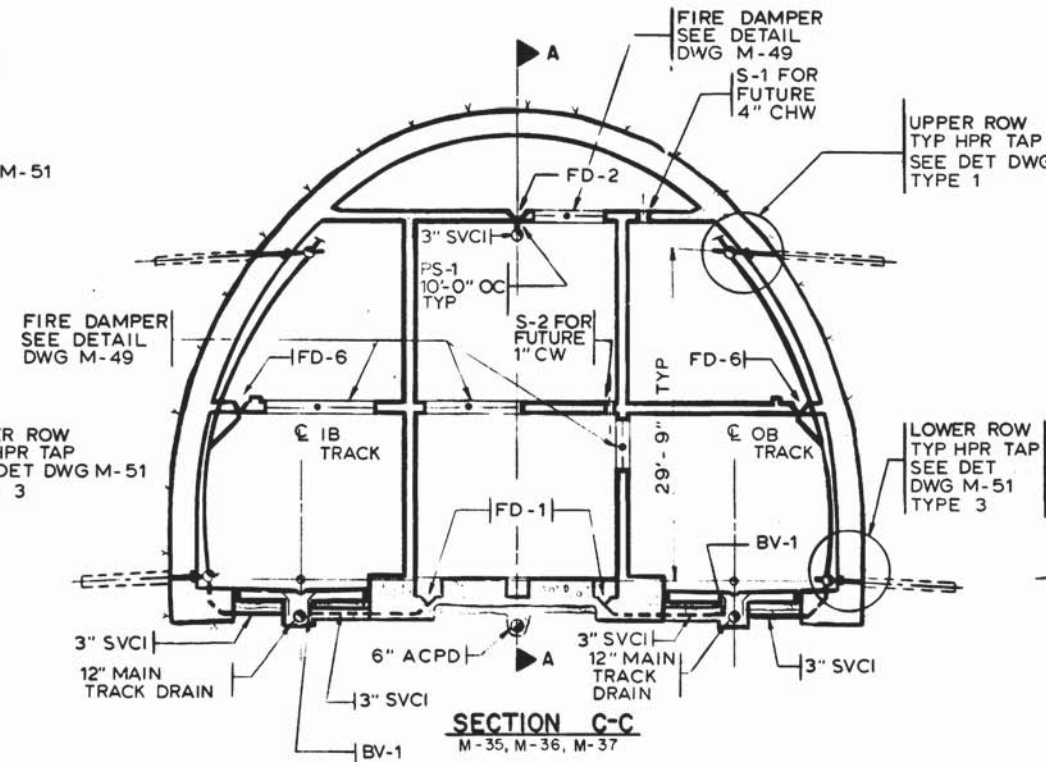


SECTION A-A
M-35, M-36, M-37

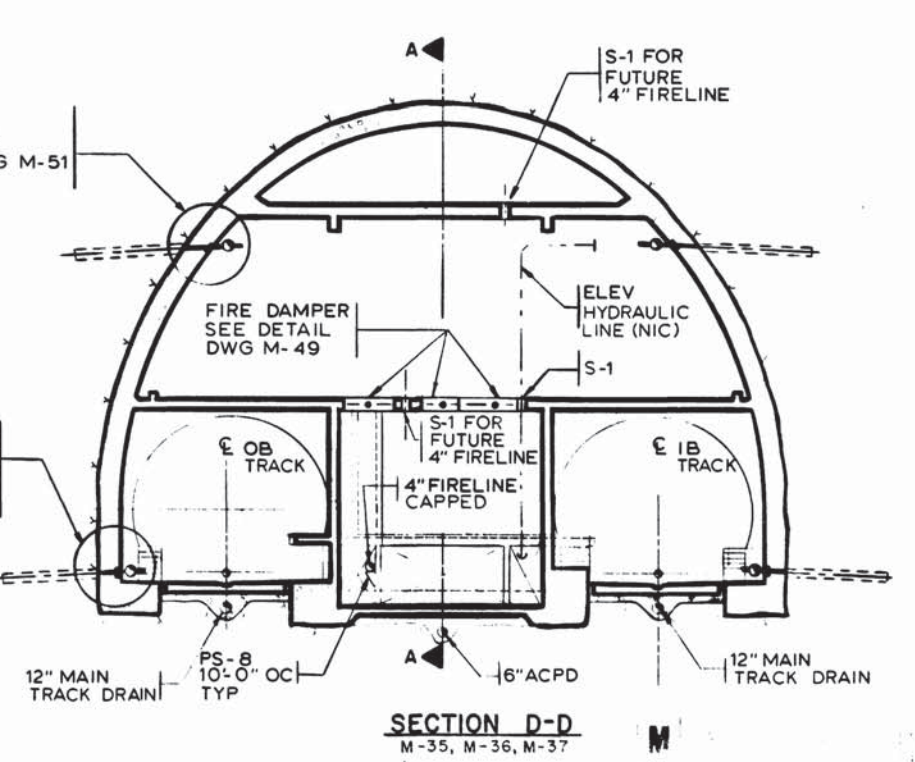
NOTES
A. SEE DRAWINGS M-51 FOR STATION HPR DETAILS.



SECTION B-B
M-35, M-36, M-37



SECTION C-C
M-35, M-36, M-37



SECTION D-D
M-35, M-36, M-37



DESIGNED	M MAHAN	10 19 76	DATE	REFERENCE DRAWINGS		REVISIONS	
DRAWN	L HUNT	3 7 75	DATE	NUMBER	DESCRIPTION	DATE	BY
CHECKED	M MAHAN	3-25-77	DATE	S-141	NORTH SERVICE AREA SECTION A-A & DETAILS		
APPROVED	S MICHAELIS	3-25-77	DATE	S-142	NORTH SERVICE AREA SECTION B-B & DETAILS		
				S-143	NORTH SERVICE AREA SECTION C-C & DETAILS		
				S-144	NORTH SERVICE AREA SECTION D-D & DETAILS		
				A-33	ANCILLARY SPACES - DRIP SLAB		



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ENGINEERS AND ARCHITECTS
SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

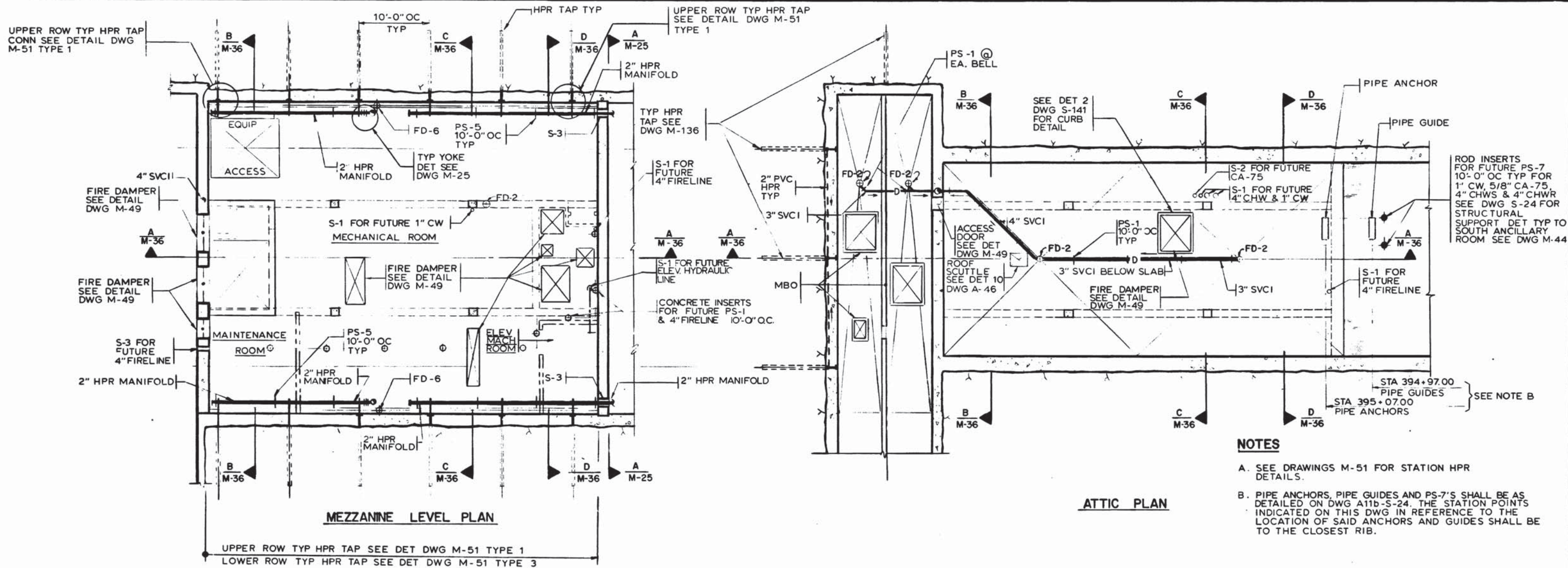
HARRY WEESE ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *Len Chat* DATE *5/2/77* APPROVED *Robert Weese*

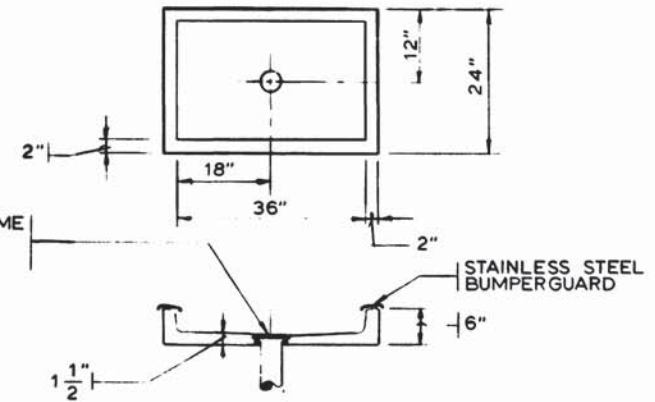
**ROCKVILLE ROUTE
BETHESDA STATION
NORTH ANCILLARY SPACE SECTION**

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

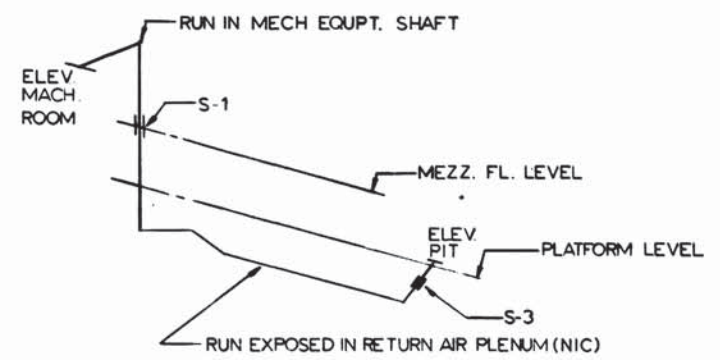
DRAWING NO. **A11b-M-36** M276-202



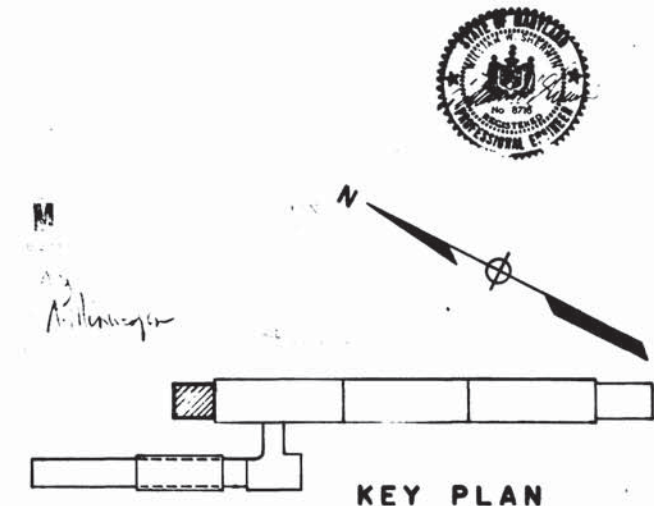
- NOTES**
- A. SEE DRAWINGS M-51 FOR STATION HPR DETAILS.
 - B. PIPE ANCHORS, PIPE GUIDES AND PS-7'S SHALL BE AS DETAILED ON DWG A11b-S-24. THE STATION POINTS INDICATED ON THIS DWG IN REFERENCE TO THE LOCATION OF SAID ANCHORS AND GUIDES SHALL BE TO THE CLOSEST RIB.



MOP SINK BASIN
SCALE: 3/4"=1'-0" M-32, M-41



HYDRAULIC ELEVATOR HYDRAULIC LINE SCHEMATIC
NO SCALE



KEY PLAN

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
M. MAHAN	10-18-74	S-140	NORTH SERVICE AREA PLANS AND SECTION		
H. HAN	12-13-74	1-27	ANCILLARY SPACES - MEZZANINE LEVEL		
M. MAHAN	3-25-77	E-9	NORTH & SOUTH ANCILLARY SPACES - MEZZ LEVEL		
S. MICHAELIS	3-25-77				



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

DATE: 5/2/77

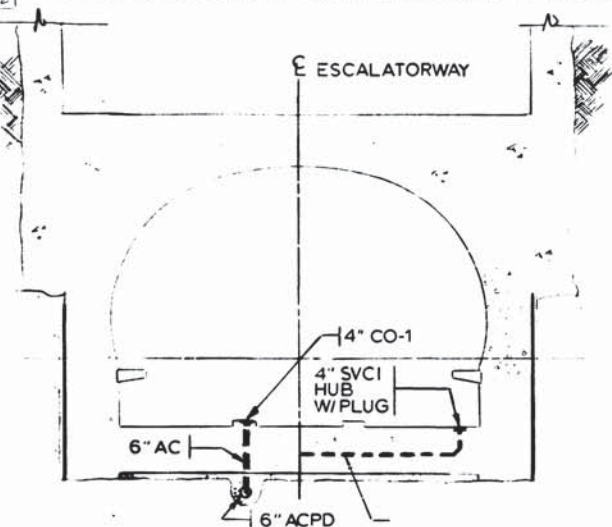
**ROCKVILLE ROUTE
BETHESDA STATION
NORTH ANCILLARY SPACES MEZZANINE LEVEL**

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

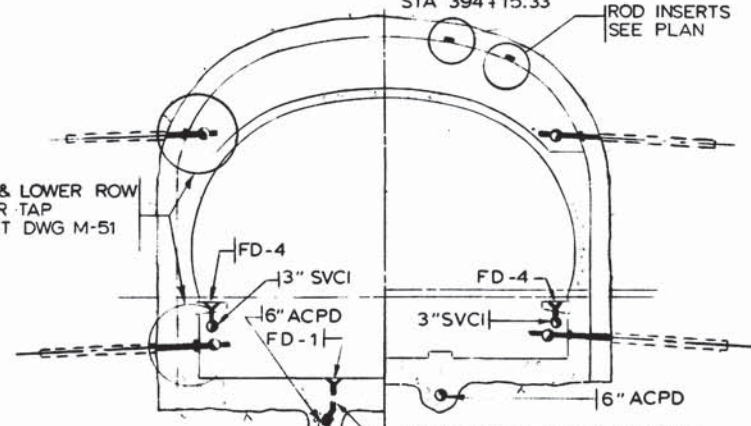
DRAWING NO. A11b-M-35 M276-201

NOTES

- A. FOR ELEVATOR SHAFT HPR TAP SEE DETAIL DRAWING M-51 TYPE 2.
- B. FOR PASSAGeway AND ESCALATORWAY DETAILS SEE DRAWINGS M-25 AND M-51.
- C. PROVIDE P-TRAPS FOR DRAINS AND MOP SINK BASIN PROVIDED IN THIS CONTRACT THAT ARE EMBEDDED AND CONNECTED TO SANITARY SYSTEM.
- D. WRAP THE ENTIRE EMBEDDED LENGTH WITH 1" BULKET FIBERGLASS INSULATION AND 3/4" MIN OR EQUIVALENT STEEL JACKET.

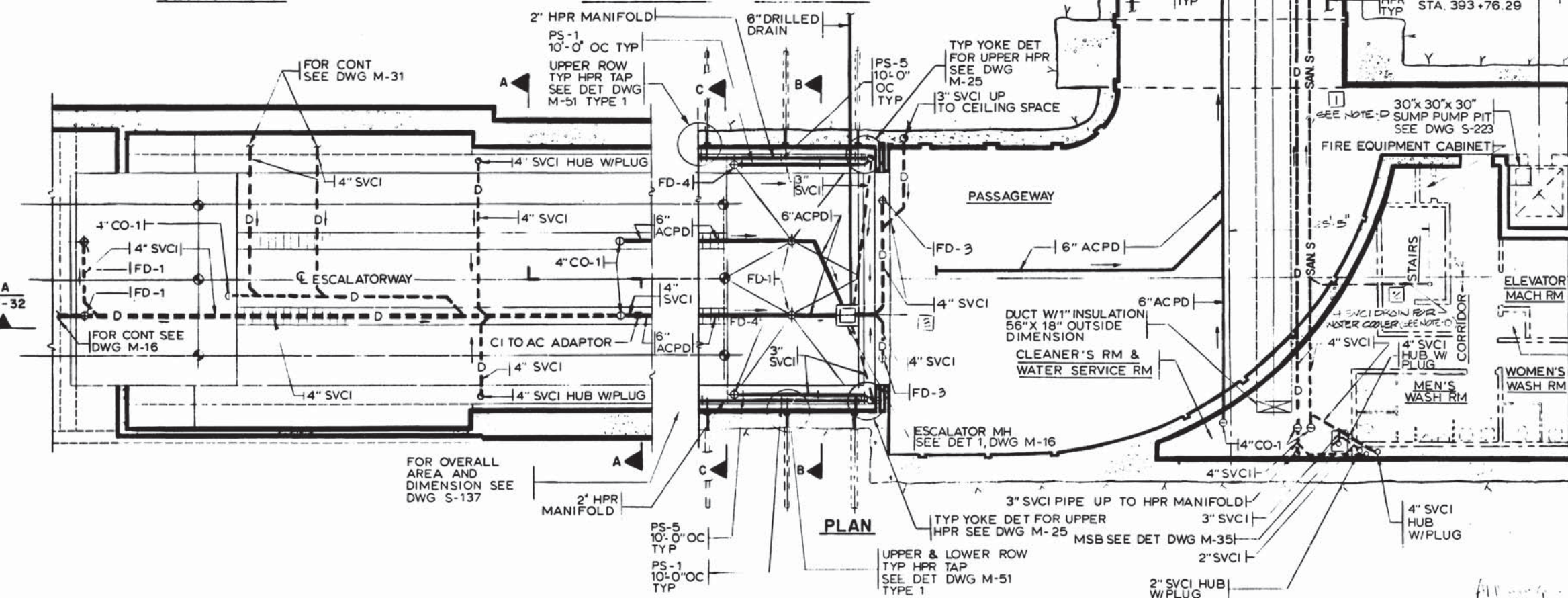


SECTION A-A

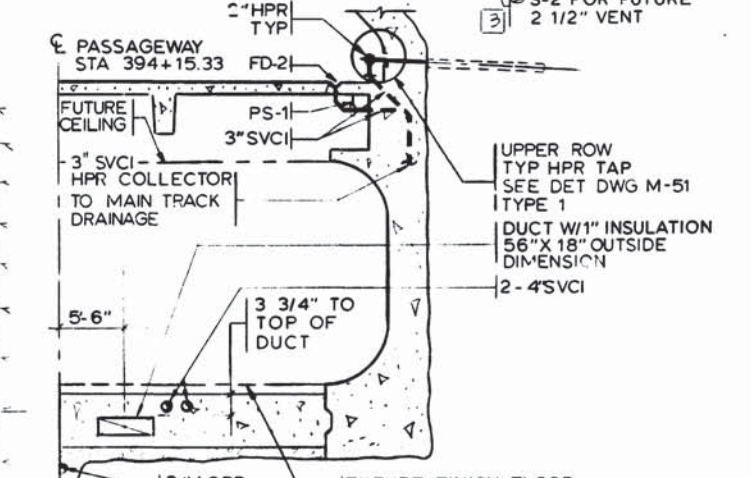


SECTION B-B

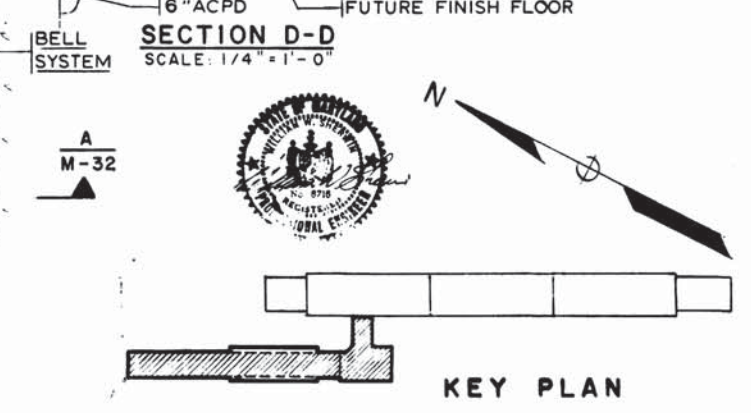
SECTION C-C



PLAN



ATTIC PLAN



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

KEY PLAN

DESIGNED	M. MAHAN	10-16-74
DRAWN	L. KENT	1-10-75
CHECKED	M. MAHAN	3-25-77
APPROVED	S. MICHAELIS	3-25-77

NUMBER	DESCRIPTION	DATE	BY
S-137	ESCALATOR PLAN AND DETAILS	7-8-77	S.M.
S-126	ESCALATOR SECTIONS & DETAILS		
A-29	PASSAGeway ANCILLARY PLAN		
E-10	PASSAGeway ANCILLARY PLAN		
E-11	ESCALATORWAY PLAN & SECTION		

REVISIONS	DESCRIPTION
1	ADDED NOTE C, IDENTIFIED SLEEVES
2	REVISED PER REVISED SPEC
3	REVISED PER REVISED SPEC



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHews • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS
SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANTS

APPROVED: *[Signature]* DATE: 5/12/77

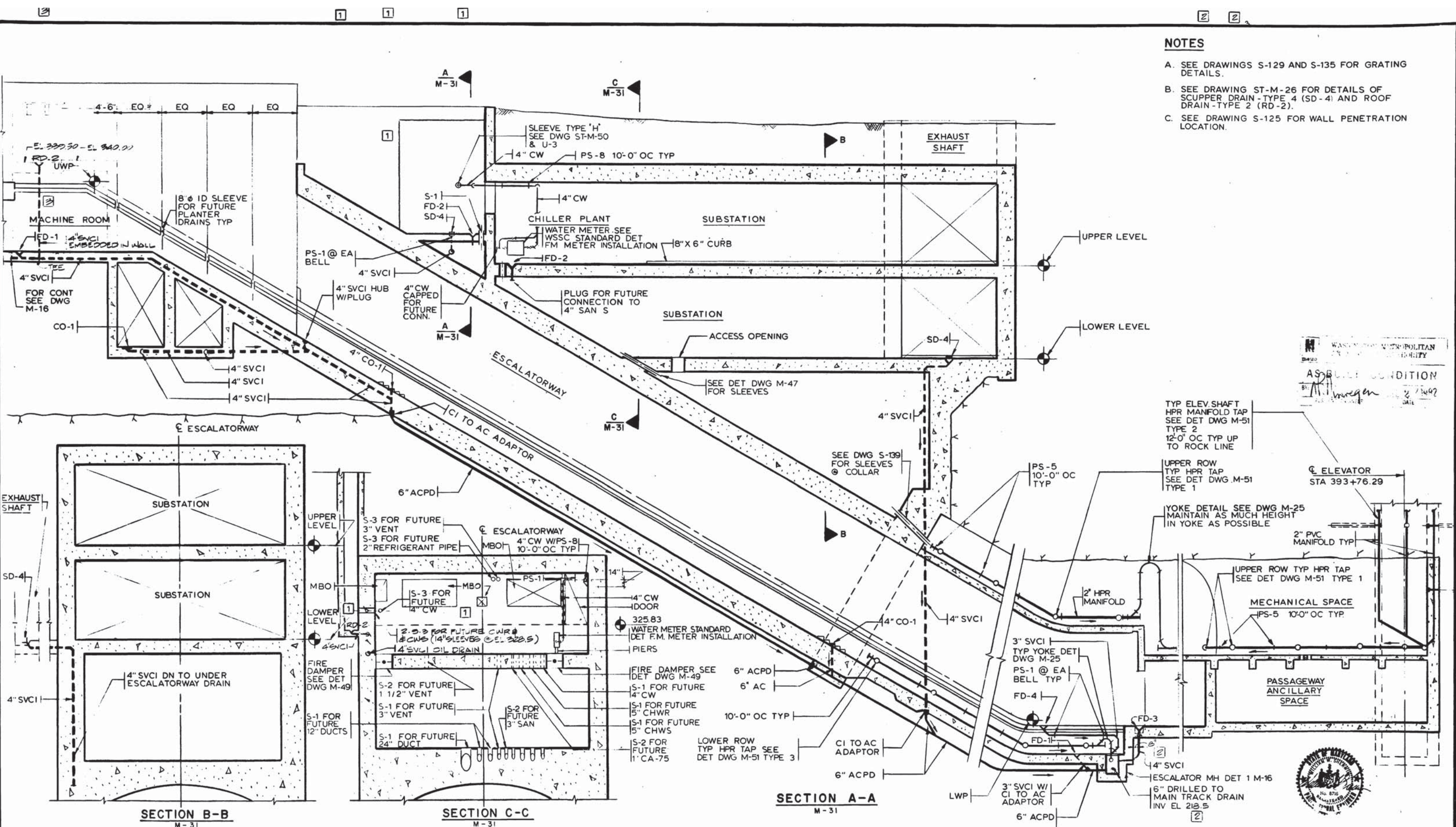
ROCKVILLE ROUTE
BETHESDA STATION
ENTRANCE ANCILLARY SPACES PLAN AND SECTION

SCALE: 1/4" = 1'-0" AND AS NOTED

DRAWING NO. A11b-M-33 M276-200

NOTES

- A. SEE DRAWINGS S-129 AND S-135 FOR GRATING DETAILS.
- B. SEE DRAWING ST-M-26 FOR DETAILS OF SCUPPER DRAIN - TYPE 4 (SD-4) AND ROOF DRAIN - TYPE 2 (RD-2).
- C. SEE DRAWING S-125 FOR WALL PENETRATION LOCATION.



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 AS-BUILT CONDITION
 BY: M. Mahan
 DATE: 5/1/77

TYP ELEV. SHAFT HPR MANIFOLD TAP SEE DET DWG M-51 TYPE 2 12'-0" OC TYP UP TO ROCK LINE
 UPPER ROW TYP HPR TAP SEE DET DWG M-51 TYPE 1
 YOKE DETAIL SEE DWG M-25 MAINTAIN AS MUCH HEIGHT IN YOKE AS POSSIBLE
 2" PVC MANIFOLD TYP
 UPPER ROW TYP HPR TAP SEE DET DWG M-51 TYPE 1
 MECHANICAL SPACE
 PS-5 10'-0" OC TYP
 PASSAGEWAY ANCILLARY SPACE

SECTION B-B
M-31

SECTION C-C
M-31

SECTION A-A
M-31

DESIGNED		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	
M-31	BETHESDA STATION ESCALATORWAY SECTIONS	8-7-80	S.M.	REVISE TO ACCOMMODATE PLAZA DEVELOPMENT - PCO #16	1
S-41	BETHESDA STATION PASSAGEWAY SECTIONS				
A-32	BETHESDA STATION ESCALATORWAY SECTION			2 REVISED PER P.E.D. 3/27/77	
E-11	BETHESDA STATION ESCALATORWAY PLAN & SECT			3 REVISED PER P.E.D. 05-BUILT	



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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 ENGINEERS AND ARCHITECTS
 SECTION DESIGNER

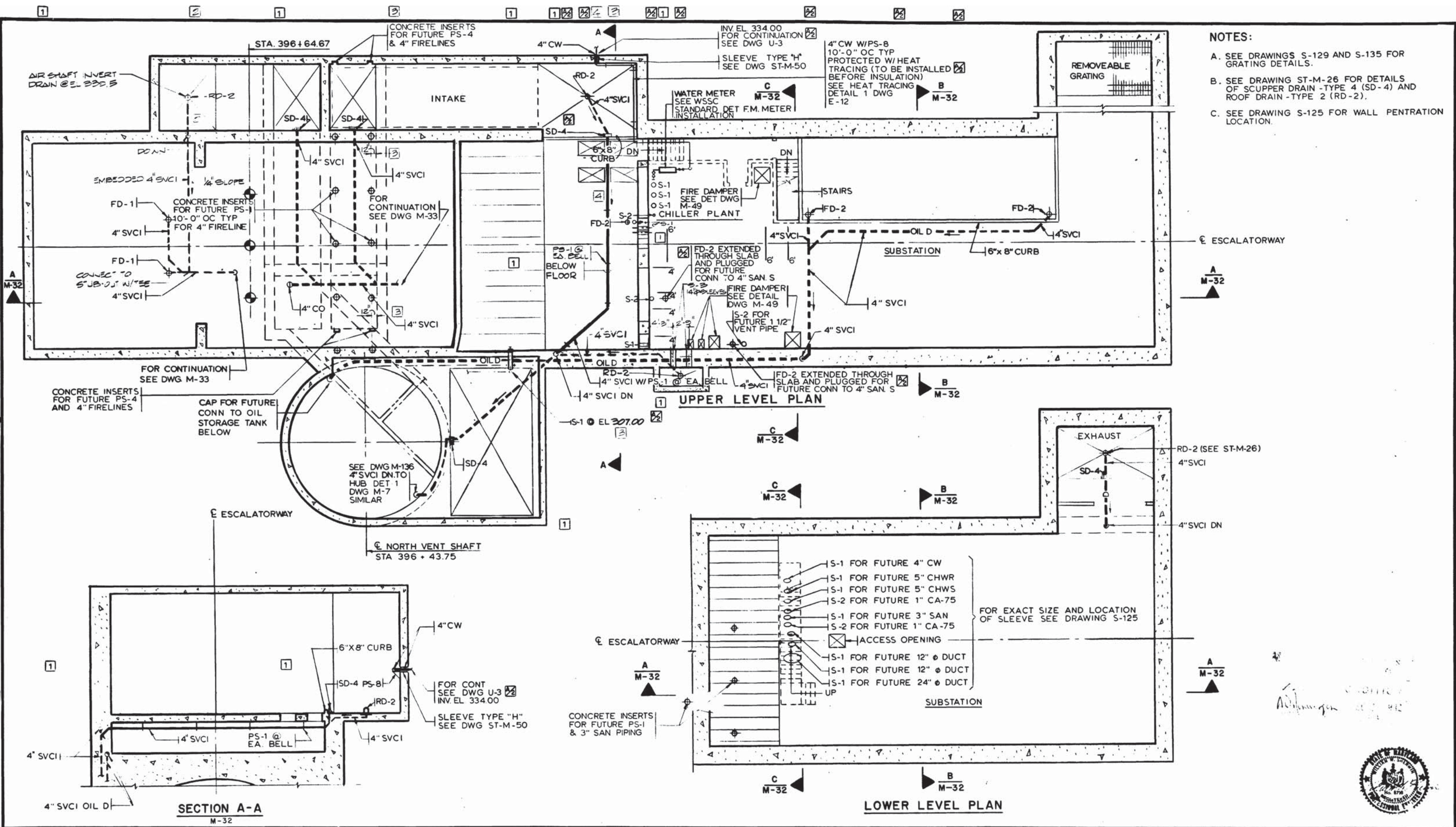
DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: *Ken Chatman* DATE: 5/1/77 APPROVED: *Robert Weese*

**ROCKVILLE ROUTE
 BETHESDA STATION
 ENTRANCE SECTION**

SCALE: 1/8" = 1'-0" 10 2 4 6 8 10
 DRAWING NO. A11b-M-32
 M276-199



- NOTES:**
- A. SEE DRAWINGS S-129 AND S-135 FOR GRATING DETAILS.
 - B. SEE DRAWING ST-M-26 FOR DETAILS OF SCUPPER DRAIN -TYPE 4 (SD-4) AND ROOF DRAIN -TYPE 2 (RD-2).
 - C. SEE DRAWING S-125 FOR WALL PENTRATION LOCATION.

UPPER LEVEL PLAN

LOWER LEVEL PLAN

SECTION A-A
M-32

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
M MAHAN	8-76	S-129	BETH STA. ENT-ESCAL, RETAIN WALL & VENT SHAFT	7-8-77	S.M.
G. A. GRAYTON	8-76	A-30	BETHESDA STATION ENTRANCE PLAN	8-7-80	S.M.
M MAHAN	3-25-77	E-12	BETHESDA STATION ENTRANCE AND SECTION		
S MICHAELIS	3-25-77	E-13	BETH STA TRACTION POWER SUBSTA & CHILL PLANT		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

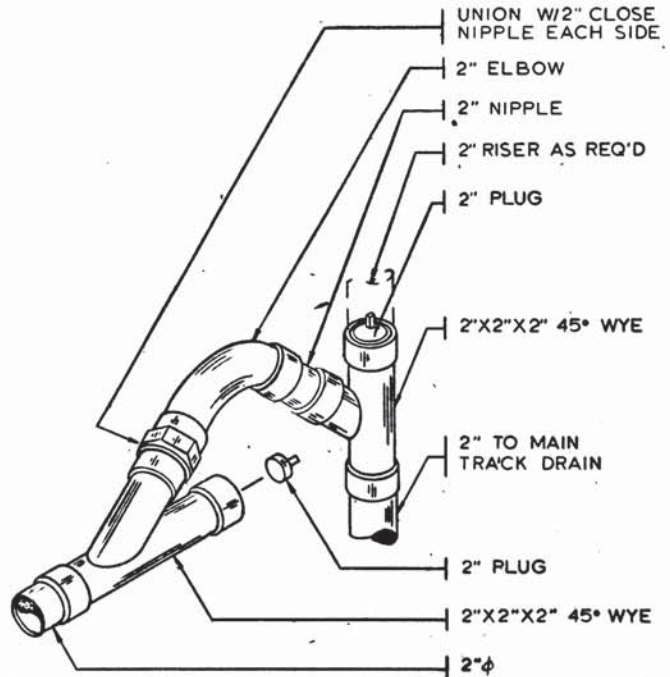
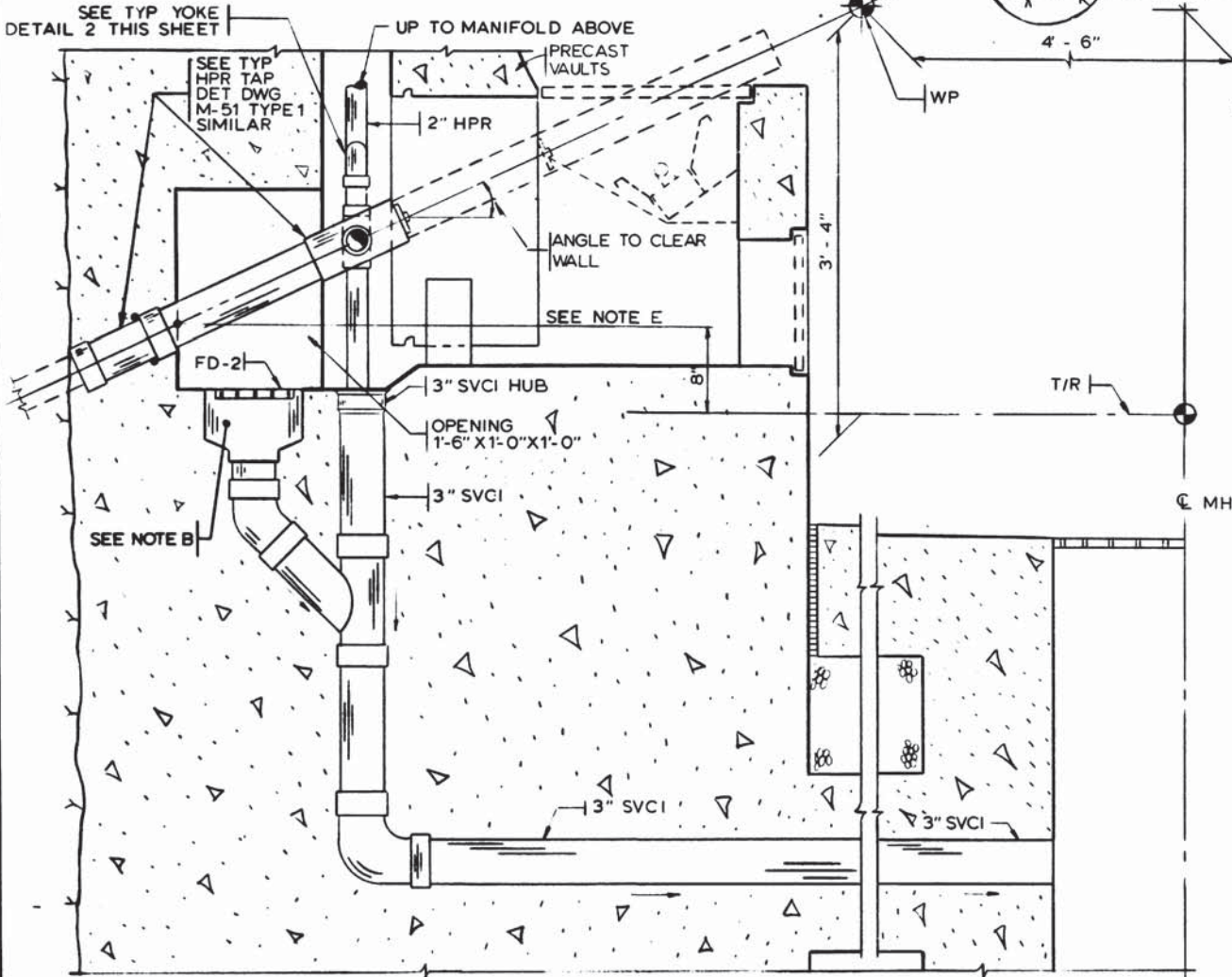
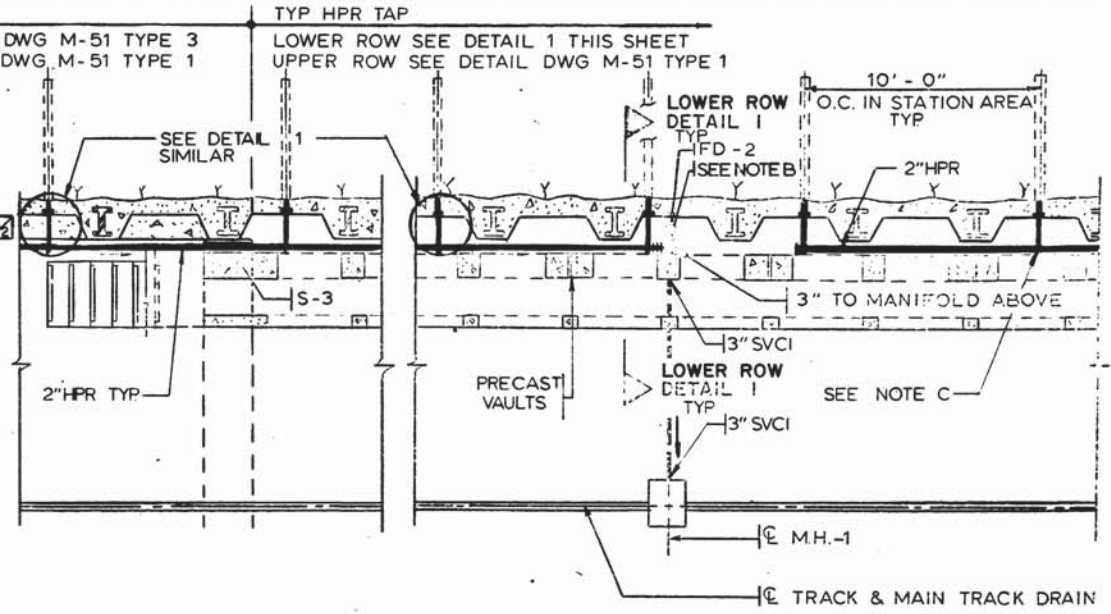
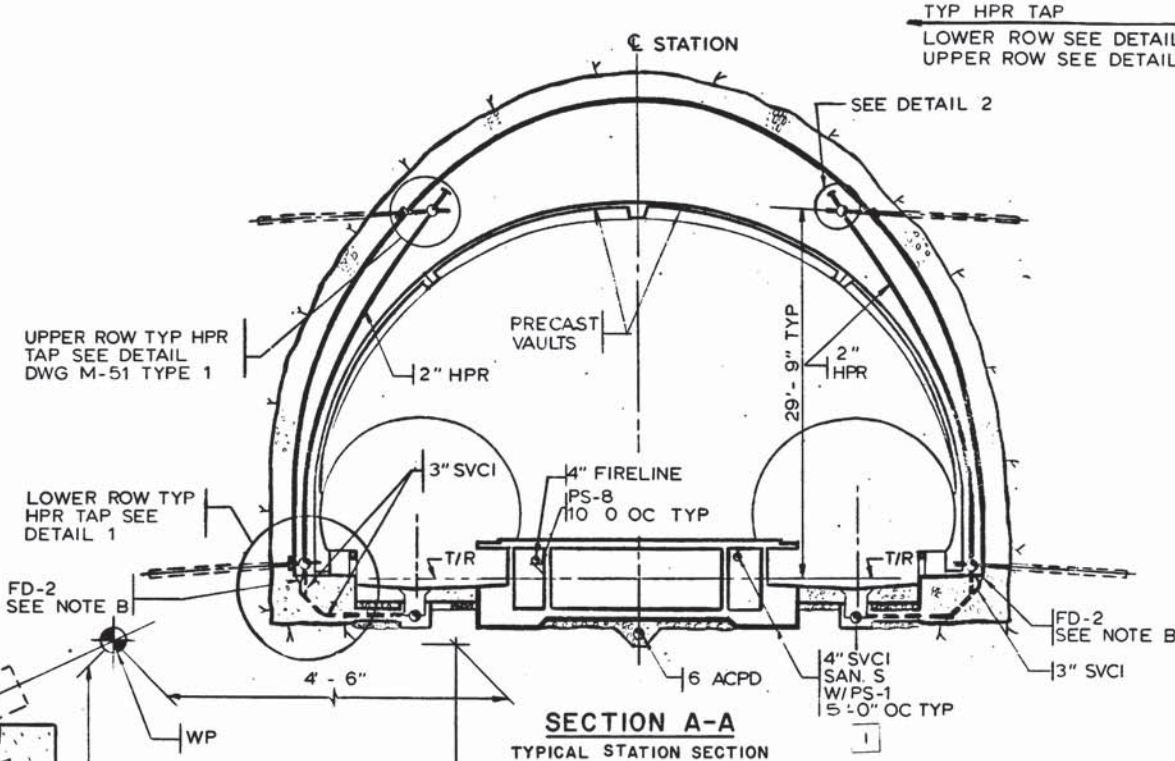
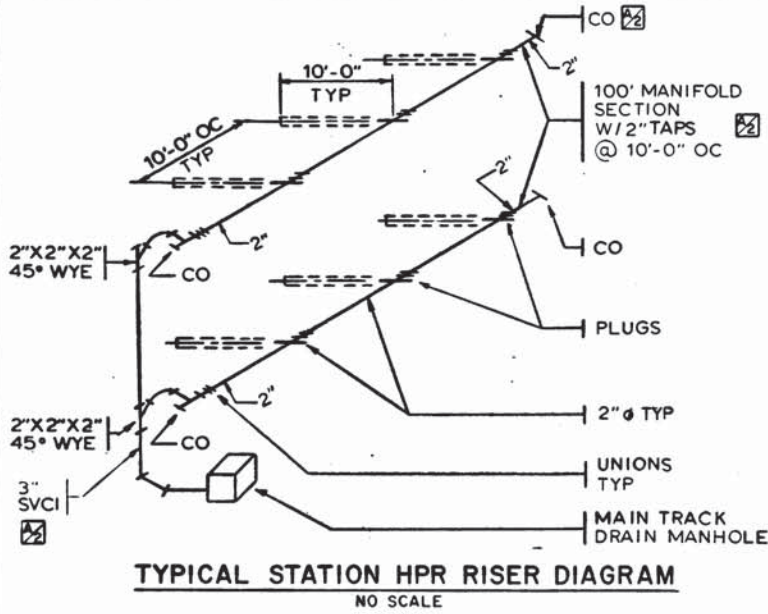
SUBMITTED *Leon Chastain* DATE 5/12/77 APPROVED *Robert M. Weese*

**ROCKVILLE ROUTE
BETHESDA STATION**

SUBSTATION-CHILLER PLANT PLAN AND SECTION

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

DRAWING NO. **Al1b-M-31** M276-198



- NOTES:**
- A. COORDINATE ALL HPR INSTALLATION IN STATION VAULT AREA W/ PRECAST CONCRETE DETAILS.
 - B. FLOOR DRAINS BEHIND PRECAST VAULT ARE TO BE CENTERED BETWEEN THE SET OF RIBS CLOSEST TO EACH STATION MANHOLE ON OUTBOUND AND INBOUND TRACK.
 - C. LOWER ROW STATION HPR TAPS BEHIND PRECAST VAULTS SHALL BE CENTERED ON THE ACCESS OPENINGS AT THE BOTTOM OF THE PRECAST VAULTS.
 - D. ALL HPR PIPING EMBEDDED IN CONCRETE SHALL BE PVC. ALL EXPOSED HPR PIPING SHALL BE GALV. STEEL.
 - E. ALL HPR TAPS IN STATION AREA ARE TO BE 29'-9" ABOVE T/R FOR UPPER ROW AND 8" ABOVE T/R FOR LOWER ROW FROM STA 395+07 TO STA 389+07. SEE DRAWING S-148 FOR REFERENCE.
 - F. ALL HPR TAPS ARE TYPICAL FOR INBOUND AND OUTBOUND SIDES OF THE TUNNEL.

DESIGNED	M. MAHAN	2-14-75
DRAWN	G. GRAYTON	3-12-75
CHECKED	M. MAHAN	3-25-77
APPROVED	S. MICHAELIS	3-25-77

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
S 148	PRECAST VAULT AND PLATFORM DETAILS	7-8-77	S. M.	GENERAL REVISIONS
A-41	VAULT TRANSVERSE SECTION AND GEOMETRY			

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
S 148	PRECAST VAULT AND PLATFORM DETAILS	7-8-77	S. M.	GENERAL REVISIONS
A-41	VAULT TRANSVERSE SECTION AND GEOMETRY			



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS
SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

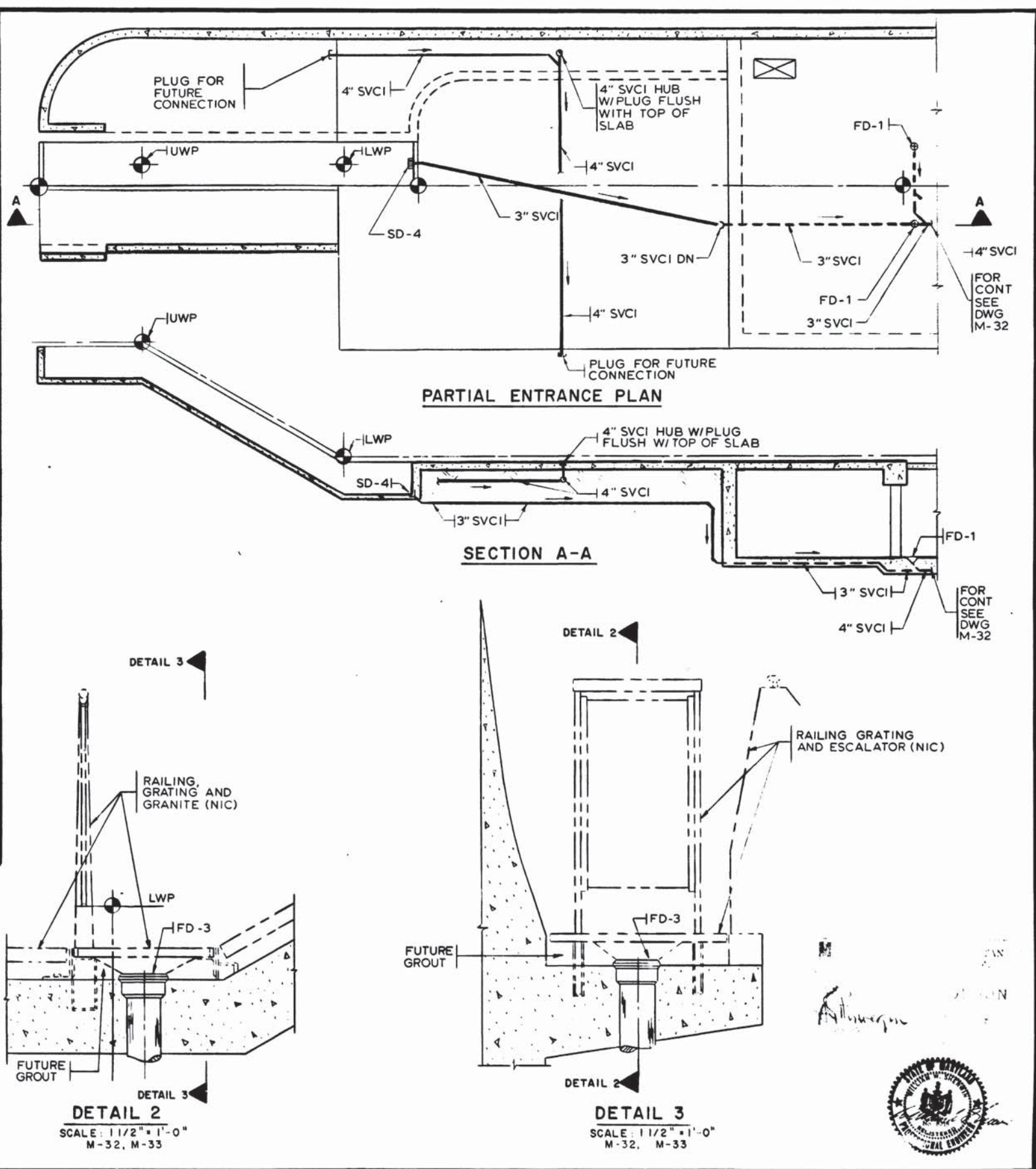
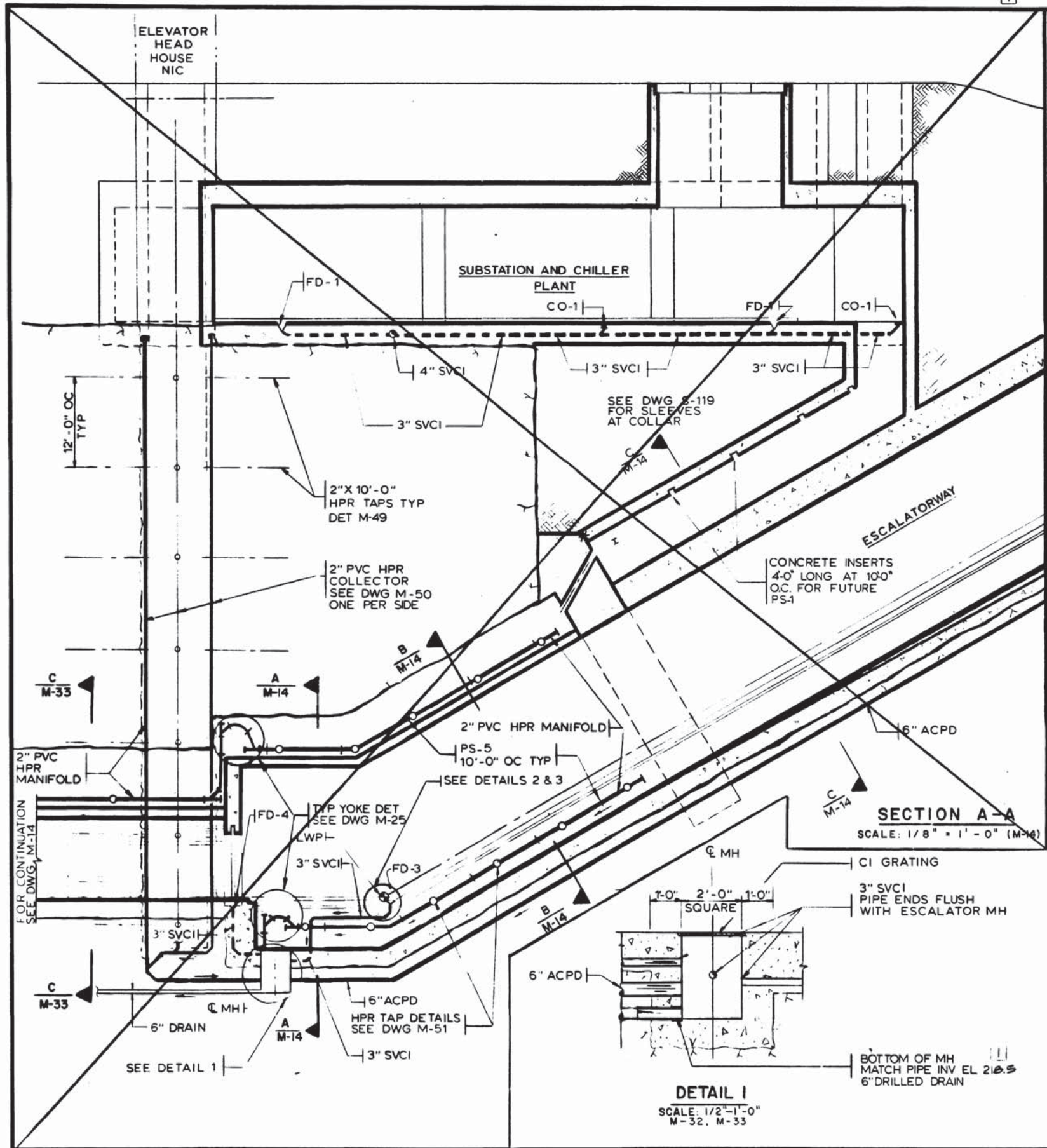
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: *Wm Grayton* DATE: *dlr/n* APPROVED: *Robert Weese*

**ROCKVILLE ROUTE
BETHESDA STATION
STATION SECTION**

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

DRAWING NO. **A11b-M-25** M276-197



DESIGNED	M. MAHAN	DATE	10-19-76
DRAWN	L. HUNT	DATE	2-14-75
CHECKED	M. MAHAN	DATE	3-25-77
APPROVED	S. MICHAELIS	DATE	3-25-77

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
5-19	ESCALATOR SECTION		
4-14	ESCALATORWAY SECTION		
5-32	ESCALATORWAY PLAN & SECTION		

ARCHITECTURAL REGISTRATION
3066-2
STATE OF MARYLAND

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

MATHEWS • CHATELAIN • BEALL
ENGINEERS AND ARCHITECTS
SECTION DESIGNER

SUBMITTED *Wm Chast M* DATE *5/16/77*

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

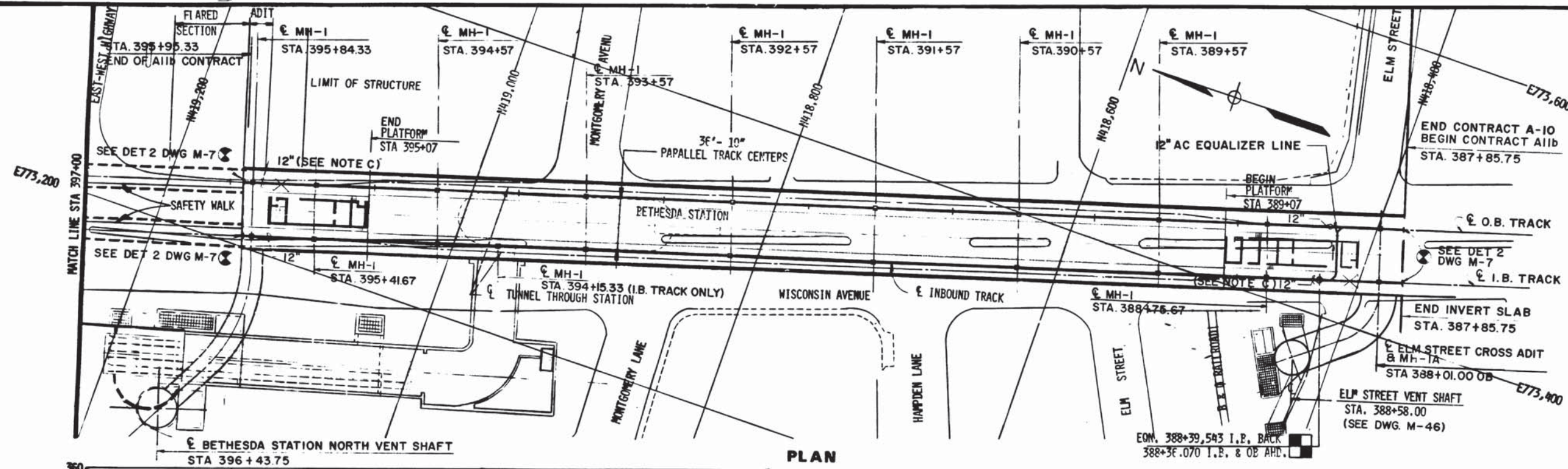
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED *Robert M...*

**ROCKVILLE ROUTE
BETHESDA STATION
ENTRANCE DETAILS**

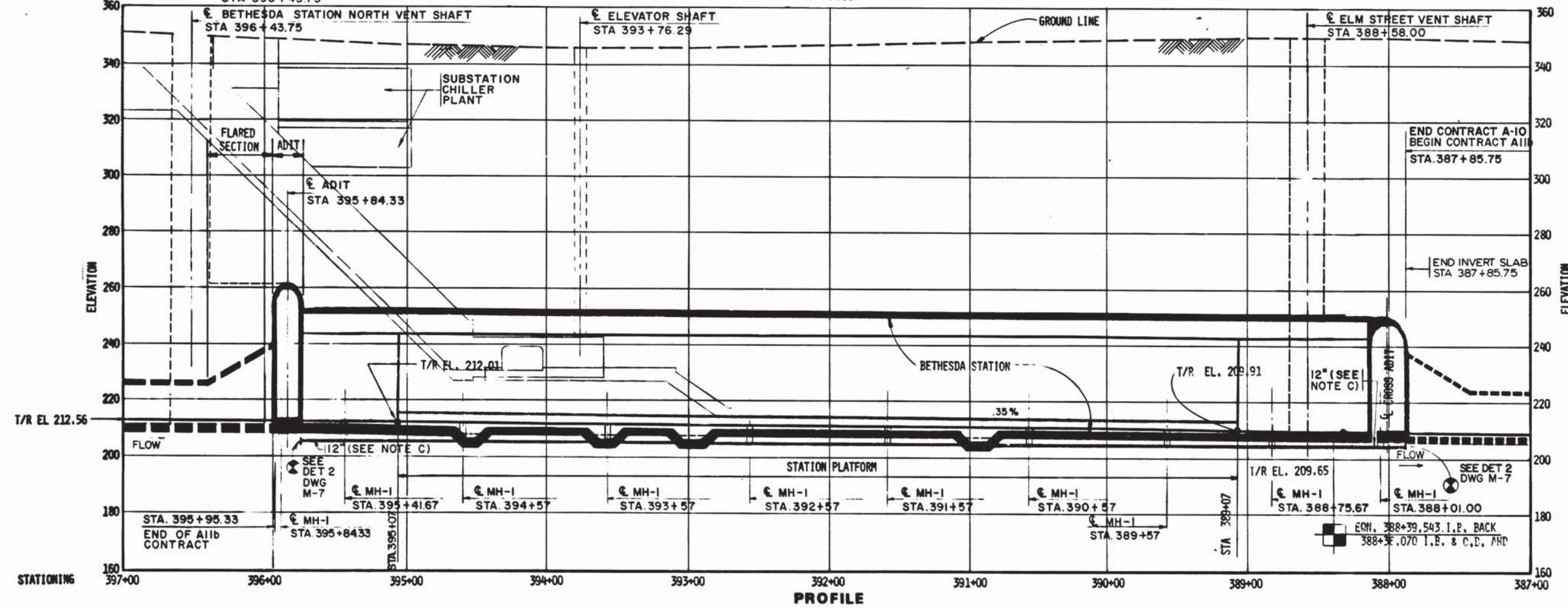
SCALE: 1/8" = 1'-0" 10 2 + 6 10

DRAWING NO. A11b-M-16 M276-195



- NOTES:**
- A. SEE DRAWINGS ST-M-1 AND ST-M-91 FOR MAIN TRACK DRAIN, MANHOLES AND CLEANOUTS.
 - B. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF INTERIM SUBMERSIBLE PUMPS IN AREAS WHERE NEW INVERT SLABS ARE BEING POURED.
 - C. USE ACPD PIPE FOR MAIN TRACK DRAINS WHERE THERE IS POROUS SUBGRADE. USE AC PIPE FOR MAIN TRACK DRAINS WHERE EMBEDDED IN CONCRETE. SEE DETAIL 2 DRAWING M-7.

PLAN



PROFILE

Handwritten notes and signatures, including a circular seal of the Washington Metropolitan Area Transit Authority.

DESIGNED	M. MAHAN	10-12-73
DRAWN	B. MUTH	7-19-74
CHECKED	M. MAHAN	3-25-77
APPROVED	S. MICHAELIS	3-25-77

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION
S-10	KEY PLAN AND PROFILE BETHESDA STATION
E-4	ELEC KEY PLAN BE TH STA, MED GEN & BELL DR

REVISIONS		
DATE	BY	DESCRIPTION



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: *Wm Chatelain* DATE: *5/12/77* APPROVED: *Kobert Weese*

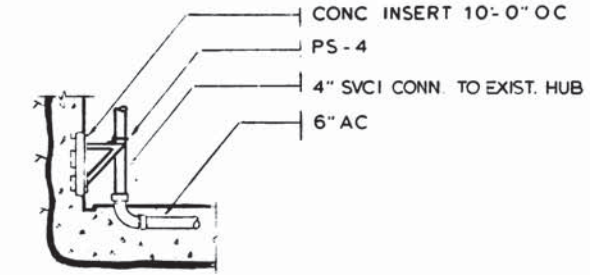
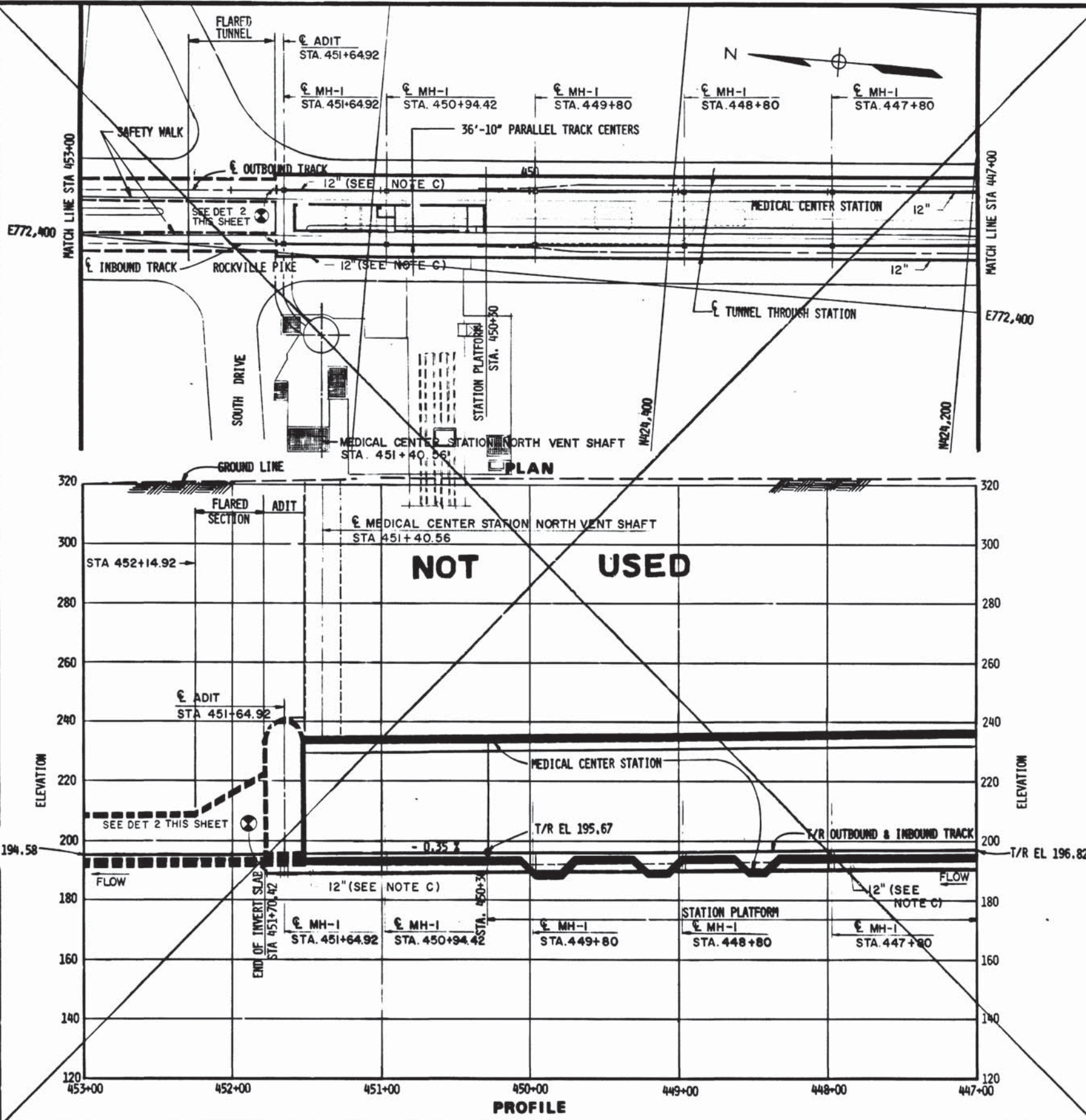
ROCKVILLE ROUTE
KEY PLAN AND PROFILE
STA 397+00 TO STA 387+00

SCALE: HORIZ. 1"=40' VERT. 1"=20'

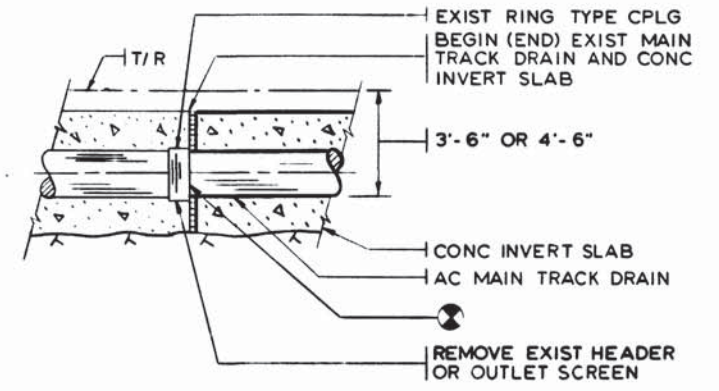
DRAWING NO. **A11b-M-11** M276-194

NOTES

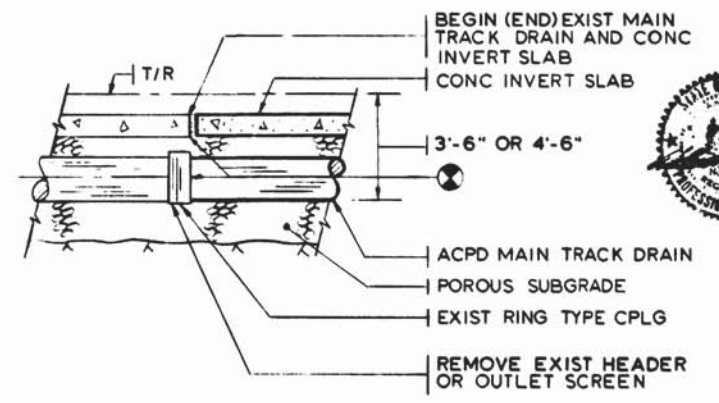
- A. SEE DRAWING ST-M-7 AND ST-M-91 FOR MAIN TRACK DRAINS, MANHOLES, AND CLEANOUTS.
- B. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF INTERIM SUBMERSIBLE PUMPS IN AREAS WHERE NEW INVERT SLABS ARE BEING POURED.
- C. USE ACPD PIPE FOR MAIN TRACK DRAINS WHERE THERE IS POROUS SUBGRADE. USE AC PIPE FOR MAIN TRACK DRAINS EMBEDDED IN CONCRETE. SEE DETAIL 2 THIS SHEET.



DETAIL 1 - STORM DRAIN CONN
NO SCALE M-136, M-46



AC PIPE IN CONCRETE SLAB



ACPD PIPE IN POROUS SUBGRADE

DETAIL 2 FOR CONNECTION TO EXIST DRAINS
SCALE: 1/4" = 1'-0" M-11



DESIGNED		DATE		NUMBER		DESCRIPTION		DATE		BY		REVISIONS	
M. MAHAN		10-12-73		S-7		KEY PLAN & PROFILE MED CEN NORTH VENT SHAFT							
B. MUTH		7-19-74		E-4		ELEC KEY PLAN BETH STA, MED CEN & BELL DR							
M. MAHAN		3-25-77											
S. MICHAELIS		3-25-77											



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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ENGINEERS AND ARCHITECTS
SECTION DESIGNER

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *Jim Chat M* DATE *2/12/77* APPROVED *Robert J. Weese*

ROCKVILLE ROUTE
KEY PLAN AND PROFILE
STA 453+00 TO STA 447+00

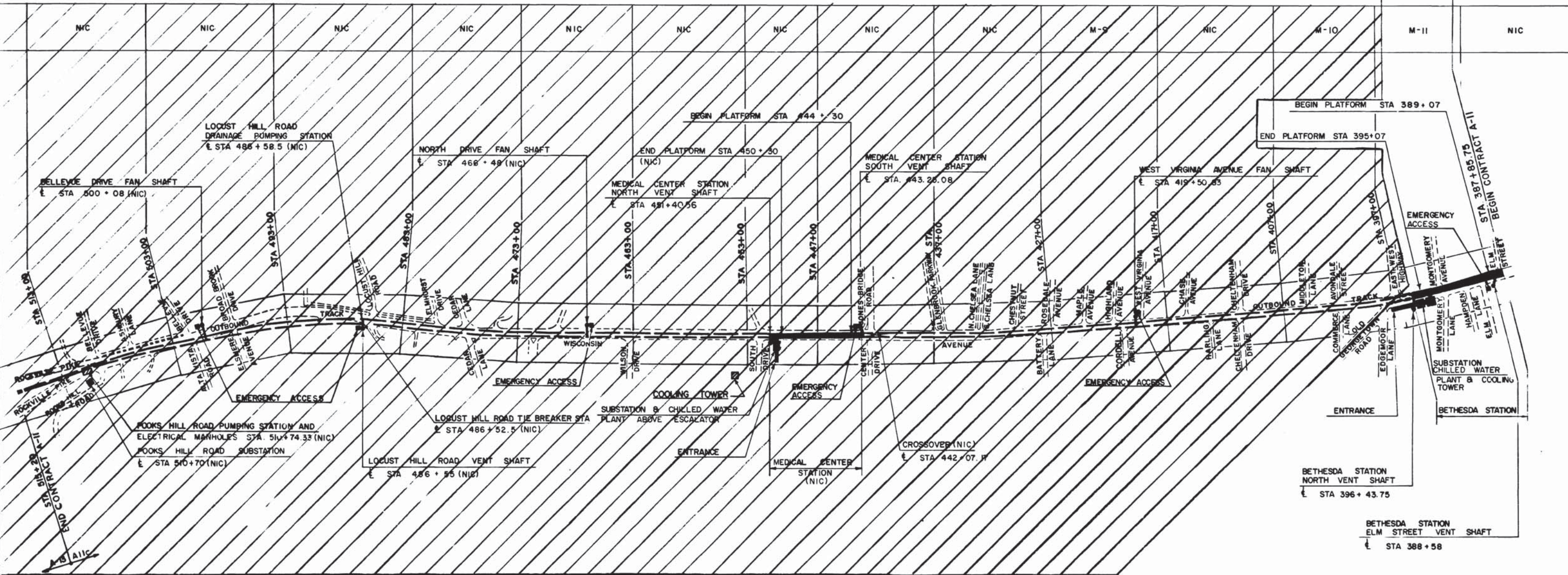
SCALE: HORIZ. 1" = 40' VERT. 1" = 80'

DRAWING NO. **A11b-M-7** M-11

M276-193



All A1b A-10
 STA. 395+95.33 END A1b CONTRACT
 STA. 387+87.75 BEGIN A1b CONTRACT



LEGEND
 [Hatched Box] IN CONTRACT A-11b
 [Unhatched Box] NOT IN CONTRACT



Handwritten signature: M. Mahan

DESIGNED M MAHAN 11-16-73 DATE	REFERENCE DRAWINGS	REVISIONS	 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY MATHEWS • CHATELAIN • BEALL ENGINEERS AND ARCHITECTS SECTION DESIGNER DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT SUBMITTED <i>Tom Smith</i> DATE <i>5/12/77</i> APPROVED <i>Ron F. [Signature]</i>	ROCKVILLE ROUTE KEY PLAN OF MECHANICAL DRAWINGS SCALE 1" = 400' 0 200 400 DRAWING NO. A11b-M-2 M276-192
DRAWN C J REID 1-10-74 DATE	NUMBER DESCRIPTION	DATE BY DESCRIPTION		
CHECKED M MAHAN 3-25-77 DATE	S-1 KEY PLAN OF STRUCTURAL DRAWINGS			
APPROVED S MICHAELIS 3-25-77 DATE	A-1 ABBREVIATES, GEN NOTES, LEG SYMBOLS, KEY PLAN			
	E-1 KEY PLAN OF ELECTRICAL DRAWINGS			