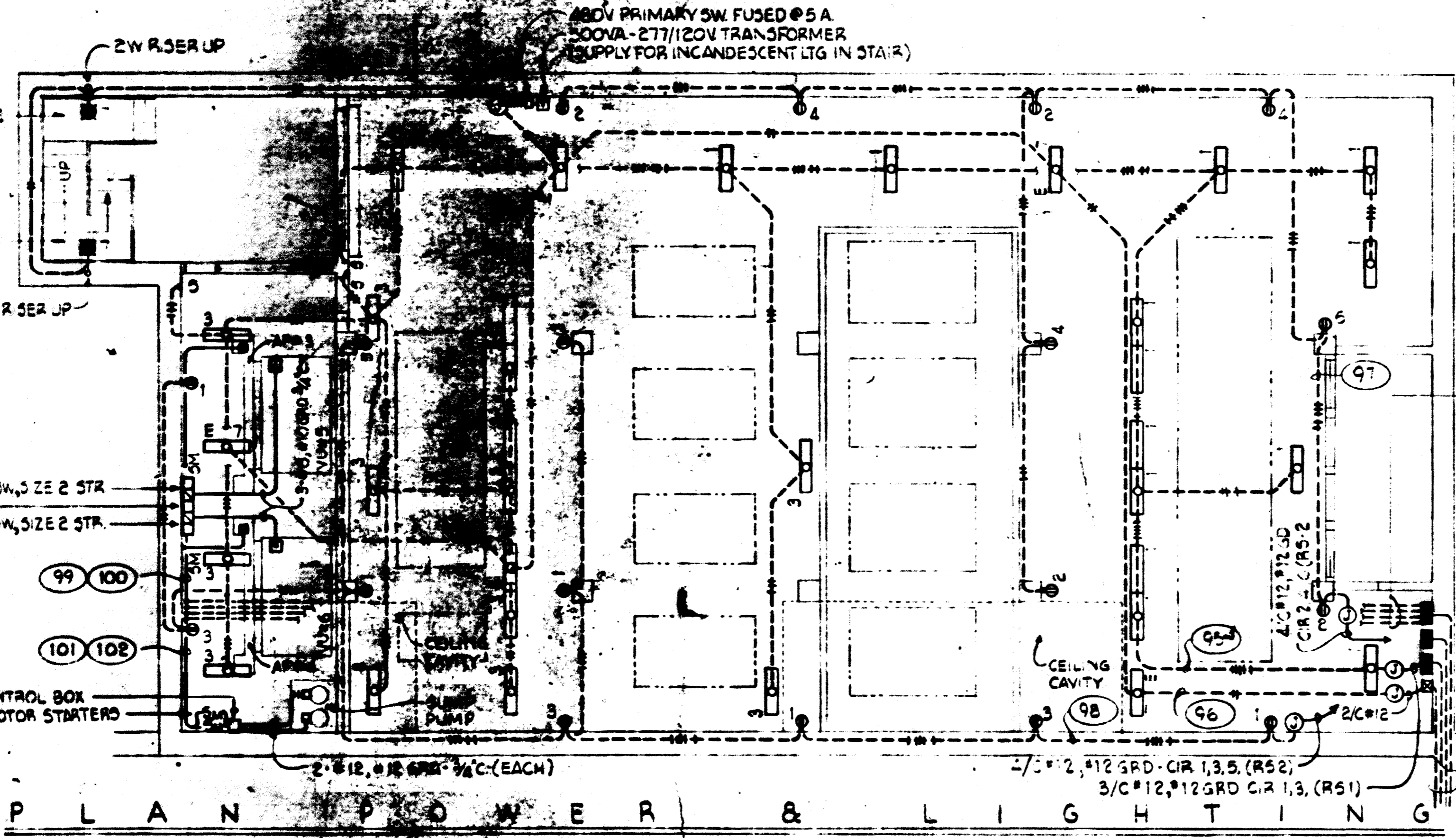
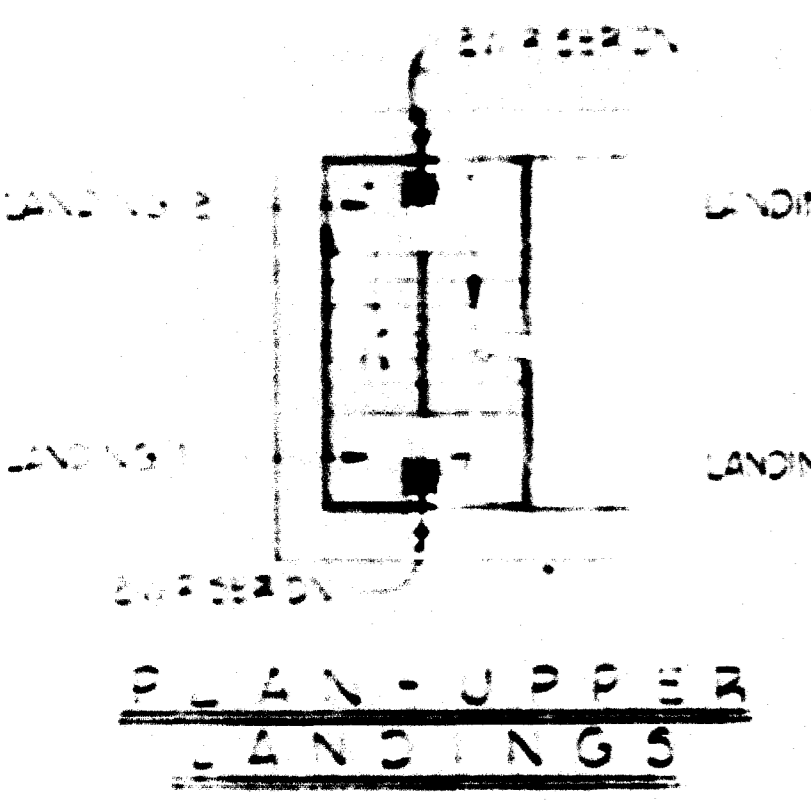


DESCRIPTION	CONNECTED LOAD KVA	CIRCUIT BREAKER	HP OR KVA	DESCRIPTION
LIGHTING				
SPACE				
BATTERY CHARGER (N.C.)	500, 500, 500			
SUB TOTALS	1,640 & 20 (S.D.)			
CONNECTED LOADS	A = 6.20 KVA = 23.1 AMPS B = 6.20 KVA = 23.1 AMPS C = 3.00 KVA = 11.2 AMPS TOTAL = 17.80 KVA			ESTIMATED DEMAND LIGHTING: 2.8 KVA @ 100% = 2.8 BATTERY CHARGER: 15.0 KVA @ 100% = 15.0 TOTAL = 17.80 KVA

DESCRIPTION	CONNECTED LOAD KVA	CIRCUIT BREAKER	HP OR KVA	DESCRIPTION
RECEPTACLES (S)	.50			
RECEPTACLES (A)	.72			
RECEPTACLES (T)	.18			
TRANSFORMER (1/2-1/2)	.50			
TRANSFORMER (1/2-1/2)	.50			
TRANSFORMER (N.C.)				
SUMP PUMP #2 (1/2-P)	1.13			
SPACE ONLY				
SUB TOTALS	2.55, 1.22, 2.18			
CONNECTED LOADS	A = 3.35 KVA = 27.9 AMPS B = 2.76 KVA = 18.8 AMPS C = 3.49 KVA = 29.1 AMPS TOTAL = 9.10 KVA			ESTIMATED DEMAND SUMP PUMPS: 2.26 KVA @ 100% = 2.26 TOTAL = 7.07

AS-BUILT
Contract No 12009C only
April 22-1983
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President
JACK STONE SIGN INC.

PLAN EQUIPMENT LAYOUT



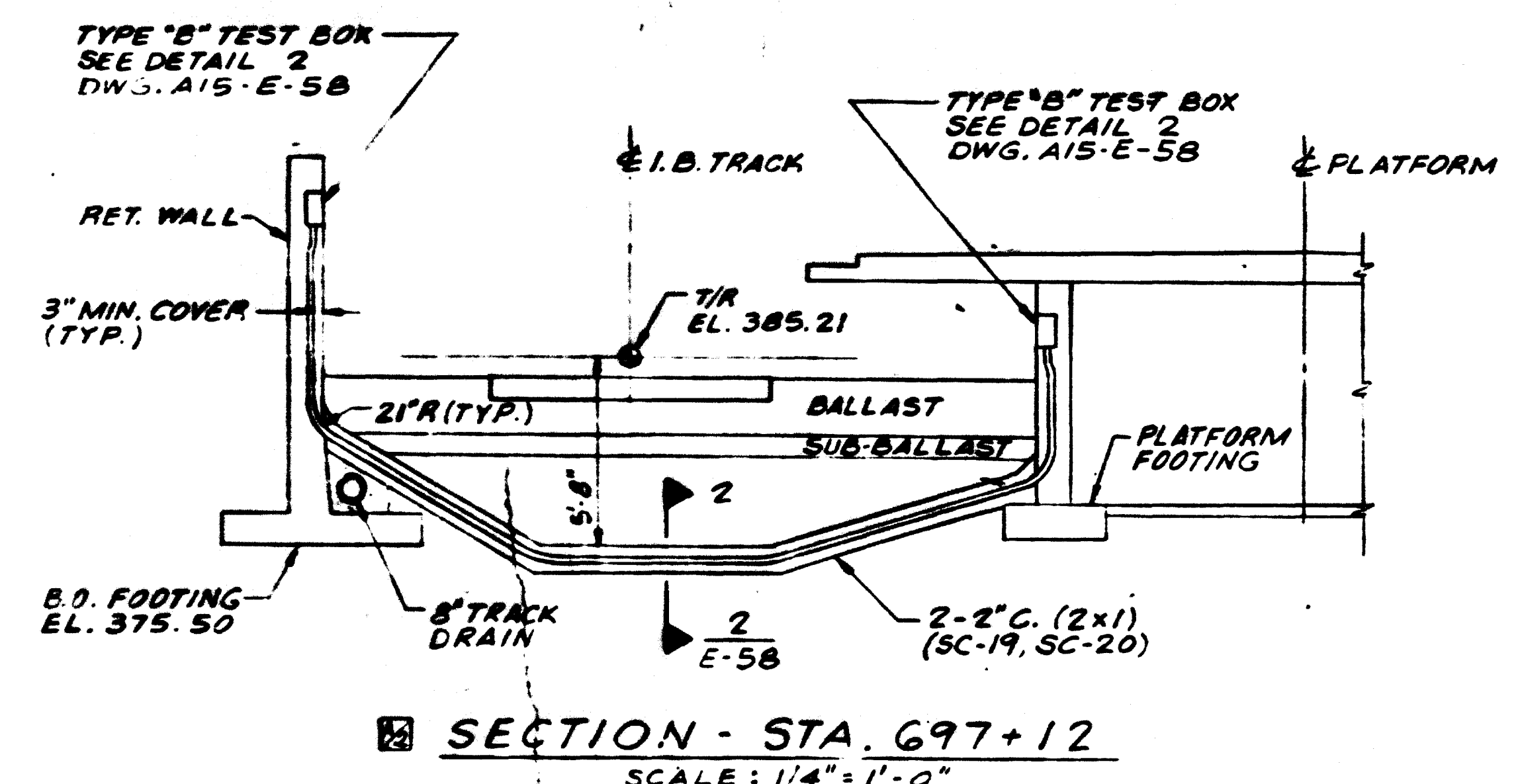
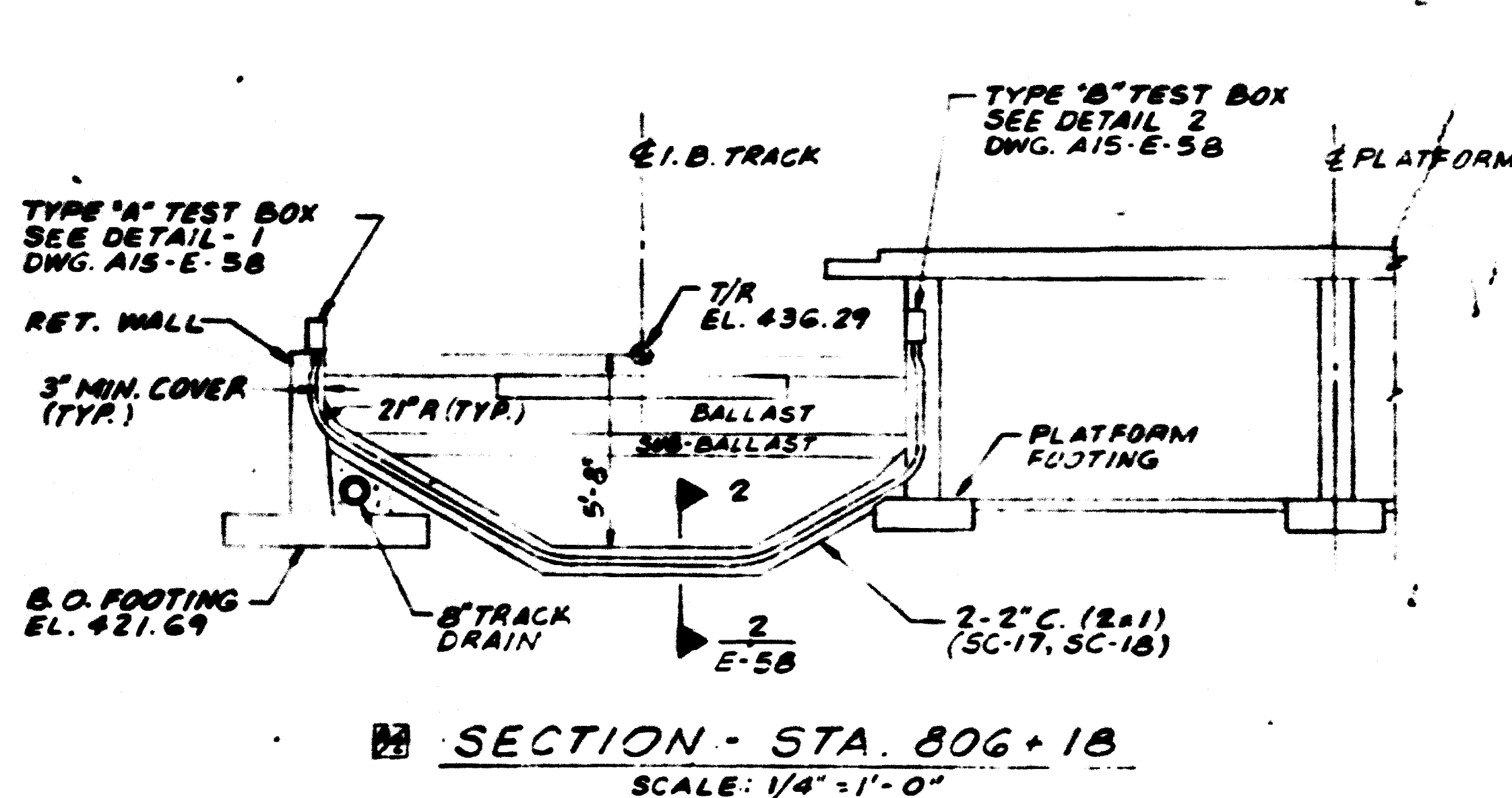
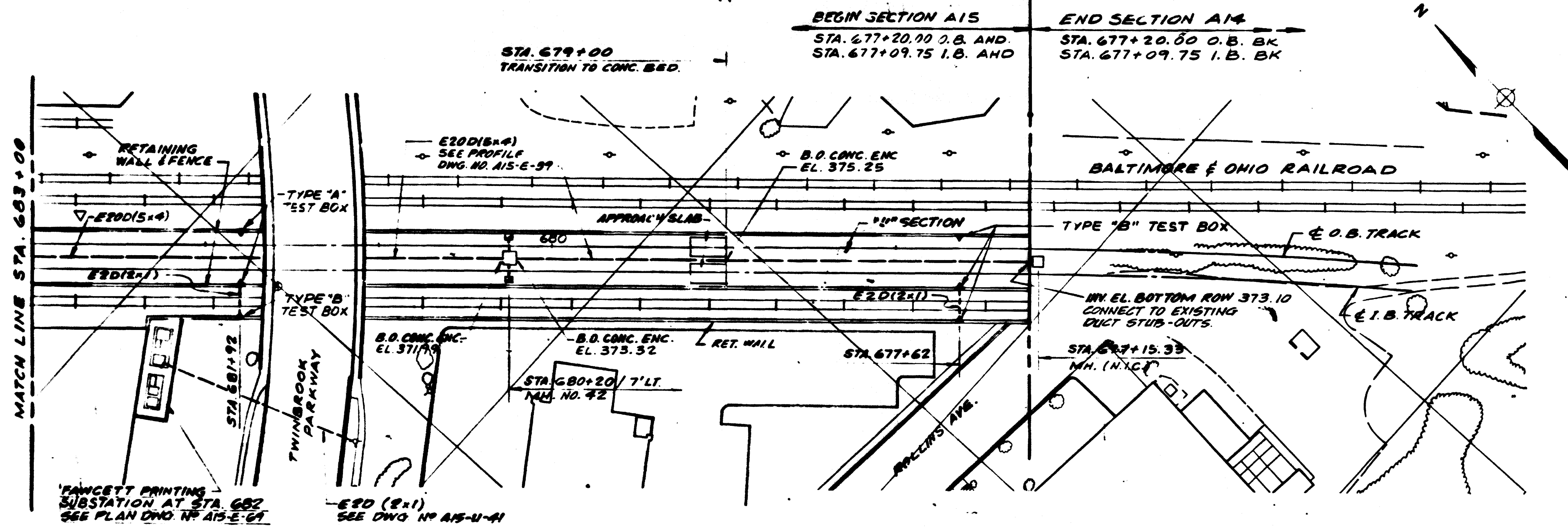
DESCRIPTION	CONNECTED LOAD KVA	CIRCUIT BREAKER	HP OR KVA	DESCRIPTION
VENTILATING UNIT V#5				
VENTILATING UNIT V#6				
SPACE ONLY				
CONNECTED LOADS	A = 14.34 KVA = 51.8 AMPS B = 14.34 KVA = 51.8 AMPS C = 14.34 KVA = 51.8 AMPS TOTAL = 43.02 KVA			ESTIMATED DEMAND VENTILATION: 43.0 KVA @ 100% = 43.0 KVA

- CONDUITS EMBEDDED IN FLOOR EXTEND TO PANEL AND EQUIPMENT
- 99 3-#8, #10 GRD CIR 1 (R53)
 - 100 3-#8, #10 GRD CIR 2 (R53)
 - 101 2-#10, #12 GRD CIR 2 (R52)
 - 102 2-#10, #12 GRD CIR 13 (R52)
- PANEL R53-480/277 V.
PANEL R52-208/120 V.
PANEL R51-480/277 V.
SP. 30A-480V SWITCH-EMERGENCY LIGHTING CIR 7 (PANEL SET)
- CONDUITS (P53, P54, P55, P56) FOR CONTINUATION SEE DWG FA2 E24 ADD CABLE SEALS AT DUCT TERMINATIONS

- NOTES**
- 1 - ALL ELECTRICAL EQUIPMENT ENCLOSURES TO BE NEMA TYPE 12 UNLESS NOTED OTHERWISE
 - 2 - ALL FLUORESCENT LIGHTING FIXTURE TO BE TYPE 1 (STD DWG SET-16) SURFACE MOUNTED, EXCEPT STEM MOUNTED TO IS-CW-ERE CEILING CAVITY OCCURS
 - 3 - ALL INCANDESCENT LIGHTING FIXTURES TO BE TYPE 6C (STD DWG SET-17)
 - 4 - CONNECT LIGHTING UNITS IN V#5 AND V#6 TO CIRCUIT 7 (R52) AND 9 (R52) RESPECTIVELY.

FOR INFORMATION ONLY
USE THIS DRAWING TO LOCATE TUNNEL GRAPHICS PER CONTRACT 12009C ONLY

DESIGNED: [Signature]	DATE: 9/22/77	REFERENCE DRAWINGS	REVISIONS	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY BAKER - WIBBERLEY & ASSOCIATES, INC. CONSULTING ENGINEERS SULTON - CAMPBELL & ASSOC ARCHITECTS McNEILL & BALDWIN, INC. MECHANICAL - ELECTRICAL ENGINEERS DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEISE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT		ROCKVILLE ROUTE TRACTION POWER SUBSTATION	
DRAWN: [Signature]	DATE: 9/22/77	NUMBER	DESCRIPTION			DATE	BY
CHECKED: [Signature]	DATE: 9/22/77	1	GROUNDING	6-13-80	M.C.B.	CHG O.A.C. TO SWITCH	DRAWING NO. FA14-E-8
APPROVED: [Signature]	DATE: 9/22/77	2	EMBEDDED CONDUIT - SOUTH SERVICE RMS				AS BUILT 75
		3	CONDUIT AND CONDUCTOR SCHEDULE SH#4				
		4	TRAC PWR SUBSTA - SOUTH SERV RMS MECH				
		5	TRAC PWR SUBSTA - MECH DETAILS				
		6	TRAC PWR SUBSTA - ARCHITECTURAL				



AS-BUILT
 Contract No 12009C only
 April 22-1983
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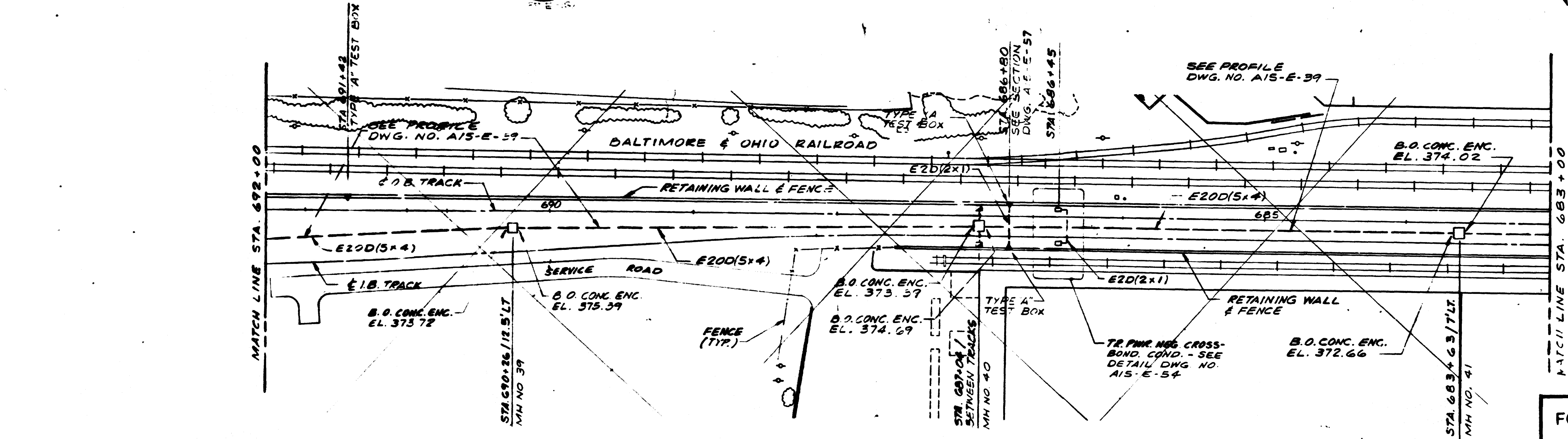
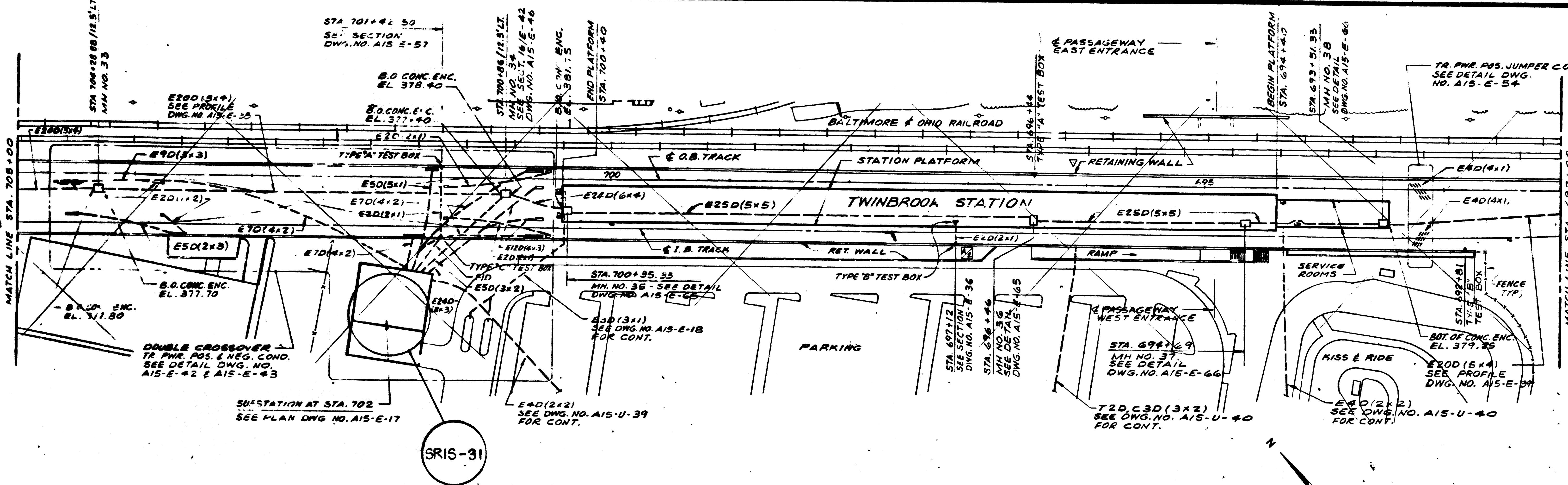
FOR INFORMATION ONLY
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 GRAPHICS PER CONTRACT 12009C ONLY

DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
GAF	1-11-77	A15-E-01	SYMBOLS, NOTES & ABBREVIATIONS	4-2-78	GAF	ADDED SECTIONS - AMENDMENT NO. 2
DRAWN	GAF	1-11-77	A15-U-12			
CHECKED	W.R.L.	8-29-77	A15-E-40			
APPROVED	V.C.P.	5-24-78	A15-E-58			



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 HENNINGSON, DURHAM & RICHARDSON OF MARYLAND, INC.
 SECTION DESIGNERS
 DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 SUBMITTED: *Robert Adams* DATE: 5/31/78
 APPROVED: *Robert Adams*

ROCKVILLE ROUTE
 UNDERGROUND DUCT SYSTEM
 STA. 683+00 TO STA. 677+20
 SCALE: 1" = 40'
 DRAWING NO. A15-E-36
 ME23-76



AS-BUILT
 Contract No 12009C only
 April 22-1983
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 GRAPHICS PER CONTRACT 12009C ONLY

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION
AIS-E-1	SYMBOLS, NOTES & ABBREVIATIONS
AIS-U-12	COMPOSITE UTILITY PLANS
AIS-E-19	PLATFORM LEVEL - O.B. & I.B. END PLANS
AIS-E-40	TYPICAL MANHOLE PLANS & SECTIONS
AIS-E-41	TYPICAL MANHOLE DETAILS
AIS-E-50	STRAY CURRENT TEST BOX DET. & SECT.

REVISIONS		
DATE	BY	DESCRIPTION
5-2-78	GAF	ADDED TYPE 'B' TEST BOX & E2D(2x1) DUCTBANK - AMENDMENT NO. 2

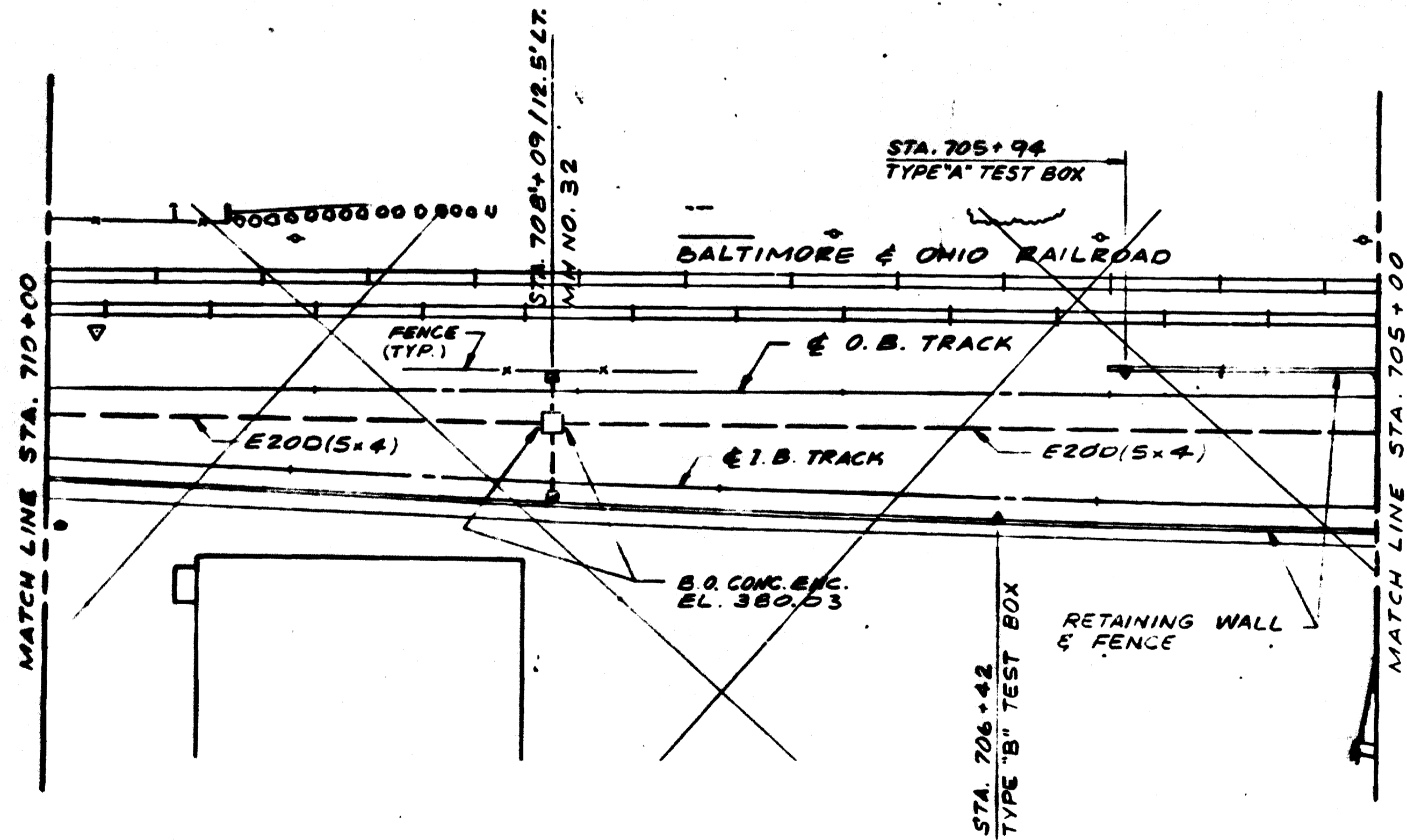
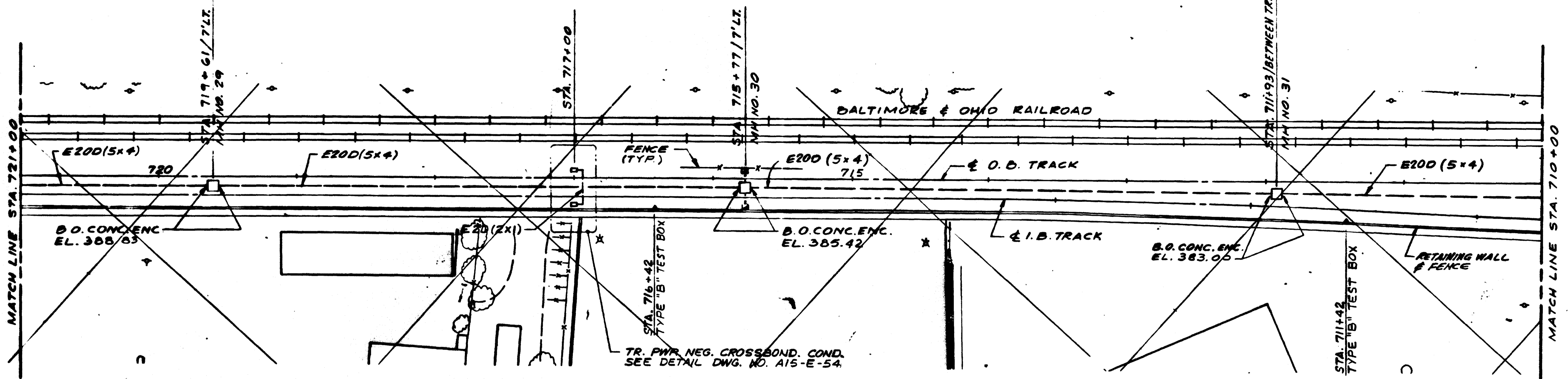


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 HENNINGSON, DURHAM & RICHARDSON OF MARYLAND, INC.
 SECTION DESIGNERS

DE LEUW, CATHAR & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: *Alvin A. Adams* DATE: 5/21/78 APPROVED: *Robert J. Kelly*



AS-BUILT
 Contract No 12009C only
 April 22-1983
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 President
JACK STONE SIGN INC.

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 GRAPHICS PER CONTRACT 12009C ONLY

DESIGNED		DRAWN		CHECKED		APPROVED	
GAF 1-7-77		GAF 1-7-77		W.A.L. 8-21-77		V.G.P. 3-24-78	
DATE		DATE		DATE		DATE	

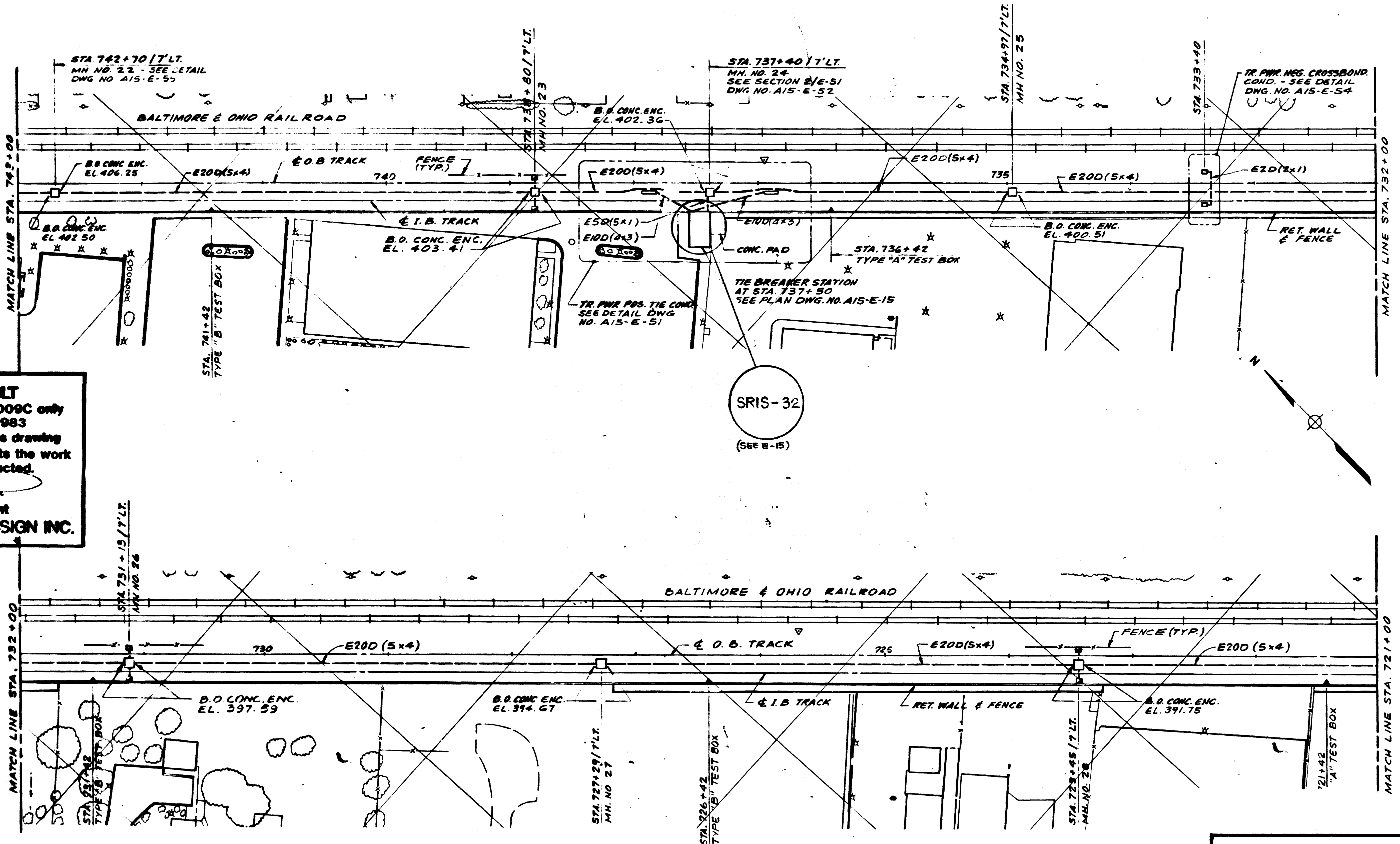
REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
AIS-E-1	SYMBOLS, NOTES & ABBREVIATIONS		
AIS-U-10	COMPOSITE UTILITY PLANS		
AIS-E-40	TYPICAL MANHOLE PLANS & SECTIONS		
AIS-E-41	TYPICAL MANHOLE DETAILS		
AIS-E-58	STRAY CURRENT TEST BOX DET. & SECT.		
AIS-E-56	EMERGENCY TRIP STATION MOUNTING DETAILS		



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 GENERAL ENGINEERING CONSULTANT
 HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 SUBMITTED *Algis Adomkus* DATE 5/31/78 APPROVED *Robert J. ...*

ROCKVILLE ROUTE
 UNDERGROUND DUCT SYSTEM
 STA. 721+00 TO STA. 705+00
 SCALE 1" = 40'
 DRAWING NO. A15-E-34 M523-78

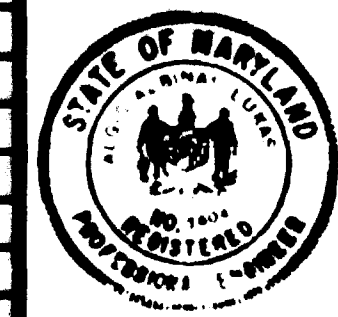
AS-BUILT
 Contract No 12009C only
 April 22-1983
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JACK STONE SIGN INC.



FOR INFORMATION ONLY
 USE THIS DRAWING TO LOCATE TUNNEL
 GRAPHICS PER CONTRACT 12009C ONLY

DESIGNED	DATE	BY	DESCRIPTION
GAF	1-5-77		AS-BUILT PAVING & RESTORATION
GAF	1-8-77		AS-BUILT PAVING & RESTORATION
W.R.L.	8-29-77		AS-BUILT PAVING & RESTORATION
V.C.P.	9-24-78		AS-BUILT PAVING & RESTORATION

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
A15-E-1	SYMBOLS, NOTES & ABBREVIATIONS			
A15-U-7	COMPOSITE UTILITY PLANS			
A15-E-40	TYPICAL MANHOLE PLANS & SECTIONS			
A15-E-41	TYPICAL MANHOLE DETAILS			
A15-E-56	STRAY CURRENT TEST BOX DET. & SECT.			
A15-E-91	TIE BREAKER STATION AT STA. 737+50			



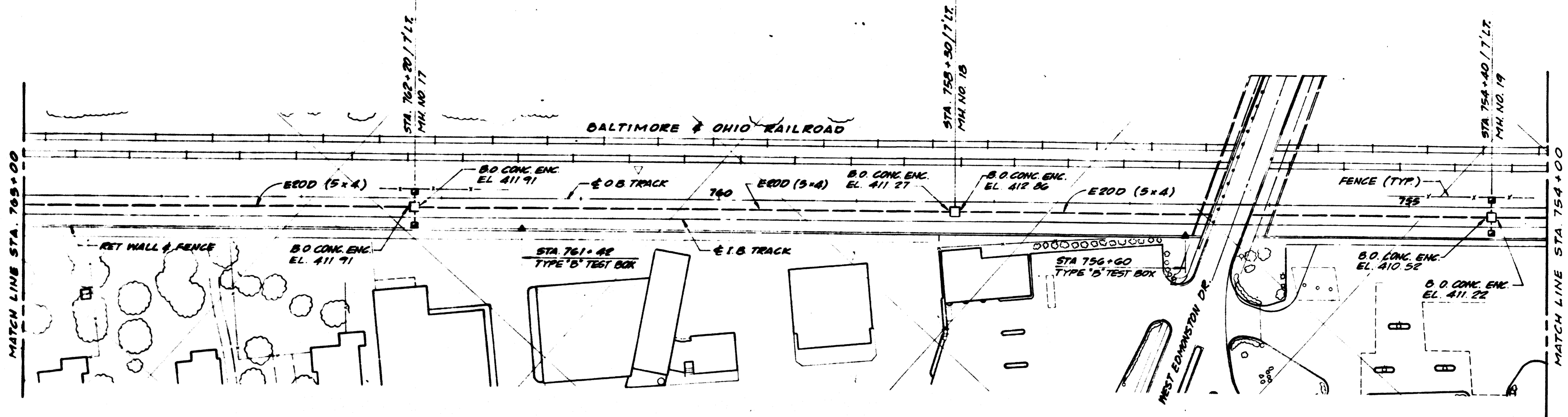
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

HENNINGSON, DURHAM & RICHARDSON OF MARYLAND, INC.
 SECTION DESIGNERS
 DE LEUW, CATHAR & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 SUBMITTED Algis A. Lukas DATE 5/31/78 APPROVED Robert J. [Signature]

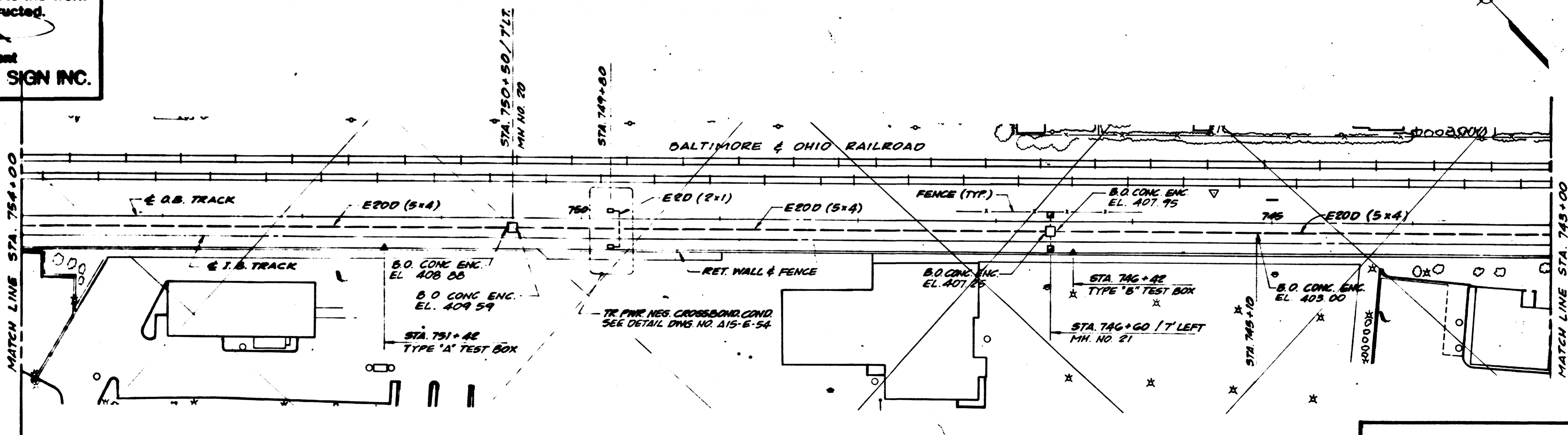
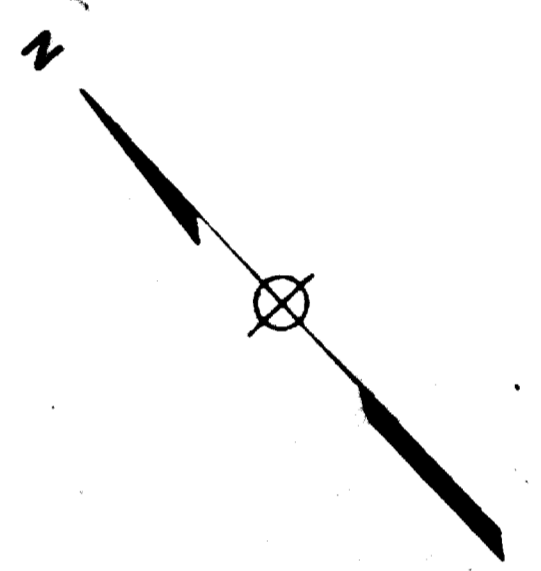
ROCKVILLE ROUTE
 UNDERGROUND DUCT SYSTEM
 STA. 743+00 TO STA. 721+00

SCALE: 1" = 40'

DRAWING NO. **A15-E-33** M528-79



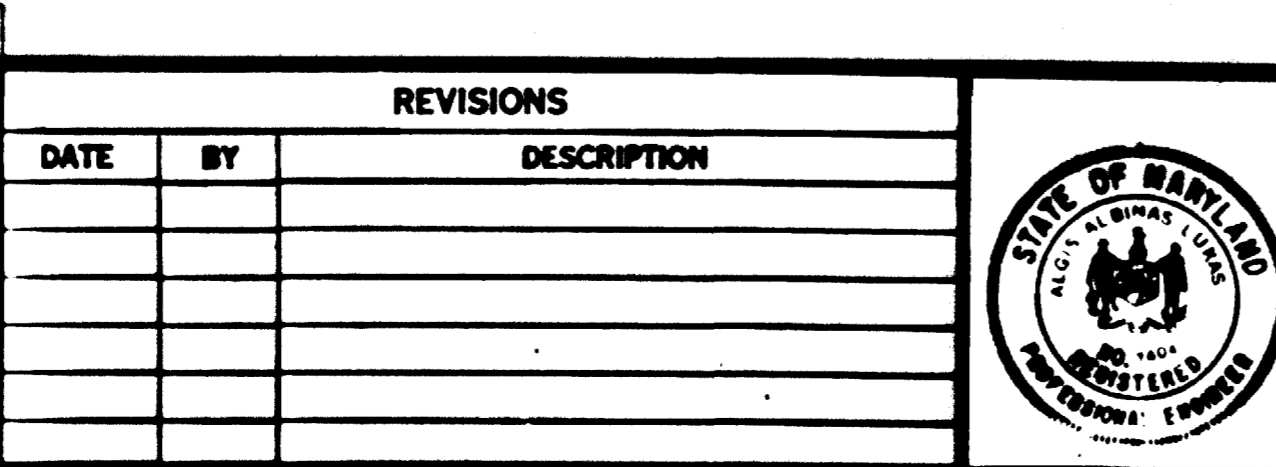
AS-BUILT
 Contract No 12009C only
 April 22-1983
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JACK STONE SIGN INC.



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 GRAPHICS PER CONTRACT 12009C ONLY

DESIGNED		DRAWN		CHECKED		APPROVED	
GAF	1-4-77	GAF	1-5-77	N.R.L.	8-29-77	V.C.P.	5-24-78
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY
A15-E-1	SYMBOLS, NOTES & ABBREVIATIONS		
A15-U-5.6	COMPOSITE UTILITY PLANS		
A15-E-40	TYPICAL MANHOLE PLANS & SECTIONS		
A15-E-41	TYPICAL MANHOLE DETAILS		
A15-E-50	STRAY CURRENT TEST BOX DET & SECT		
A15-P-5.6	PAVING & RESTORATION		



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 SECTION DESIGNERS

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

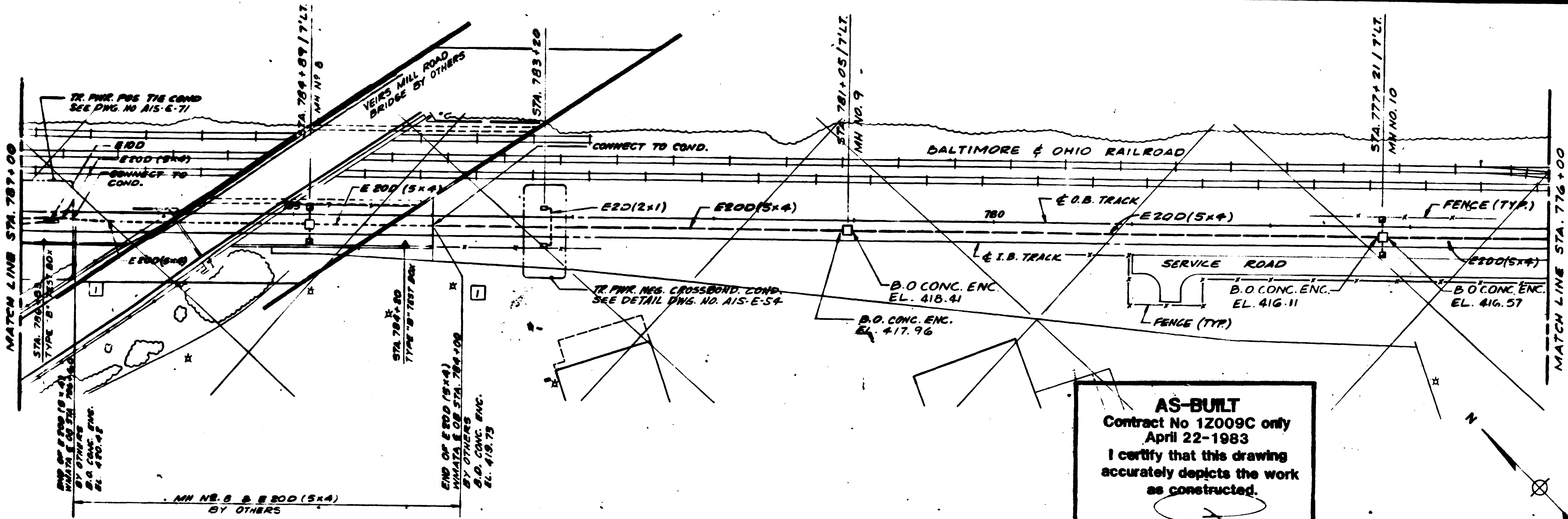
HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED *Robert J. Steele* DATE 5/31/78 APPROVED *Robert J. Steele*

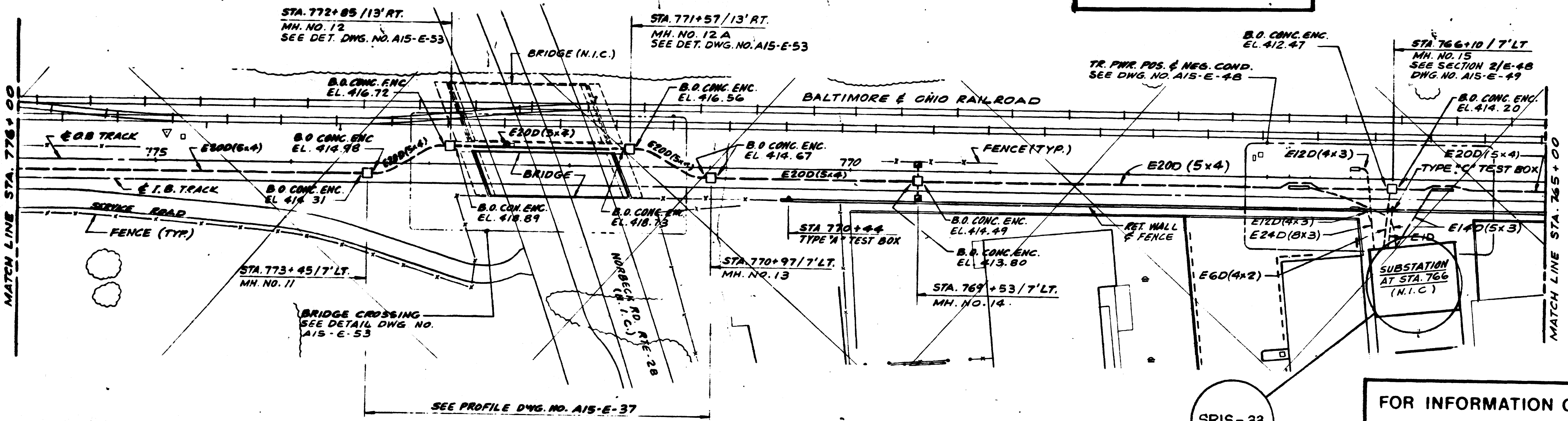
ROCKVILLE ROUTE
 UNDERGROUND DUCT SYSTEM
 STA. 765+00 TO STA. 743+00

SCALE 1" = 40'

DRAWING NO. A15-E-32



AS-BUILT
 Contract No 12009C only
 April 22-1983
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 President
JACK STONE SIGN INC.



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 GRAPHICS PER CONTRACT 12009C ONLY

SRIS-33
 (SEE E-48)

DESIGNED	GAF	1-4-77
DRAWN	GAF	1-6-77
CHECKED	N.A.L.	8-24-77
APPROVED	V.G.P.	5-24-78

NUMBER	DESCRIPTION	DATE	BY
A15-E-1	SYMBOLS, NOTES & ABBREVIATIONS	2-4-80	GAF
A15-E-2	COMPOSITE UTILITY PLANS		
A15-E-3	TYPICAL MANHOLE PLANS & SECTIONS		
A15-E-4	TYPICAL MANHOLE DETAILS		
A15-E-5	STBY CURRENT TEST BOX DET. & SECT.		
A15-E-6	SUBSTATION AT STA. 766		



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANTS

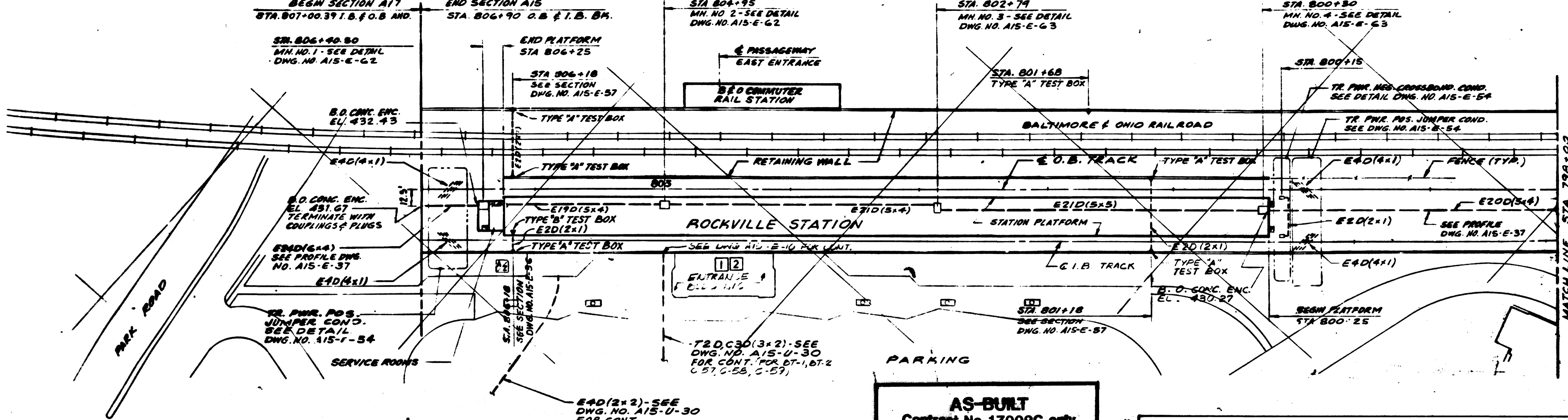
SUBMITTED *[Signature]* DATE 5/31/78 APPROVED *[Signature]*

ROCKVILLE ROUTE
 UNDERGROUND DUCT SYSTEM
 STA. 787+00 TO STA. 765+00

SCALE
 1" = 40'

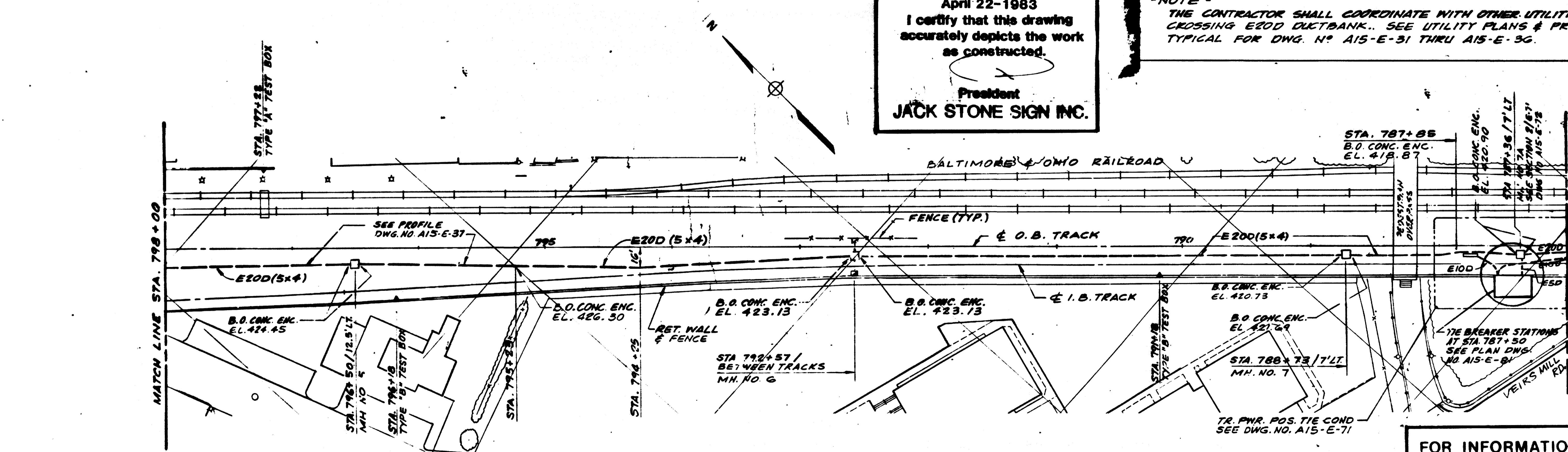
DRAWING NO.
A15-E-31

M523-B1



AS-BUILT
 Contract No 12009C only
 April 22-1983
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 as constructed.
 President
JACK STONE SIGN INC.

-NOTE-
 THE CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES
 CROSSING E20D DUCTBANK. SEE UTILITY PLANS & PROFILES.
 TYPICAL FOR DWG. NO. A15-E-31 THRU A15-E-36.



SRIS-34
 (SEE E-01)

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 USE THIS DRAWING TO LOCATE TUNNEL
 GRAPHICS PER CONTRACT 12009C ONLY

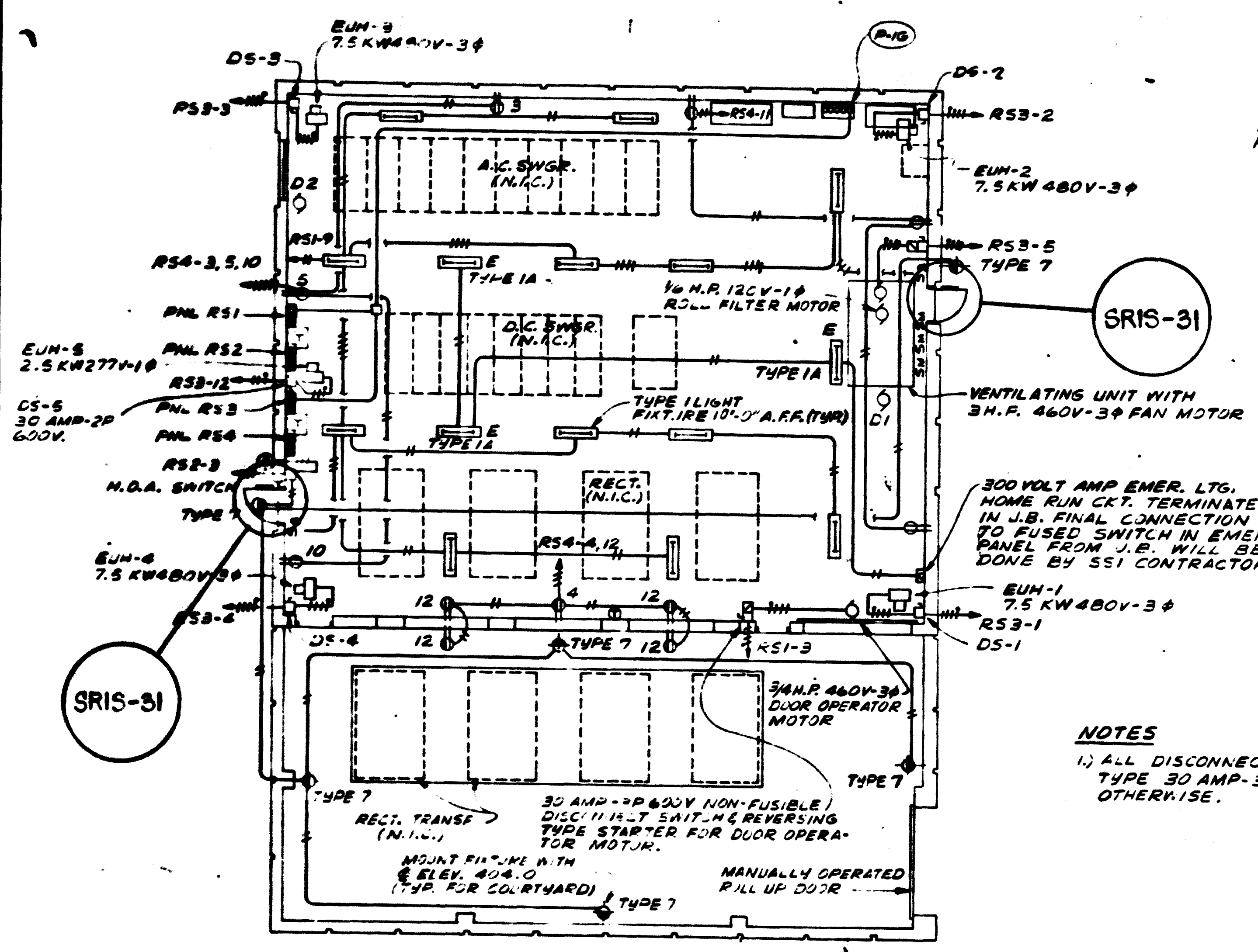
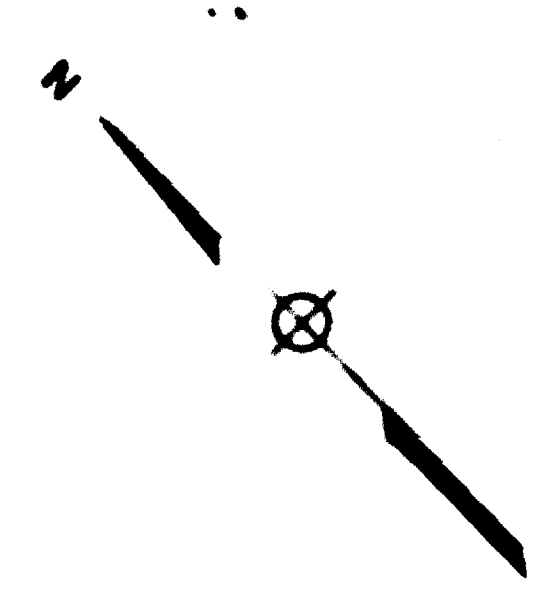
A15-F-1	PAVING & RESTORATION
A15-E-36	EMERGENCY TRIP STATION MOUNTING DETAILS
A15-E-71	TIE BREAKER STATION AT STA. 787+50

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
GAF	1-3-77	A15-E-1	SYMBOLS, NOTES & ABBREVIATIONS	8-2-78	GAF
GAF	1-5-77	A15-U-1, 2	COMPOSITE UTILITY PLANS		
W.R.L.	8-21-77	A15-F-9, 10	PLATFORM LEVEL, O.B. & I.B. END PLANS	10-23-79	JKL
V.C.P.	5-01-78	A15-E-40	TYPICAL MANHOLE PLANS & SECTIONS		
		A15-E-41	TYPICAL MANHOLE DETAILS	11-29-80	JKL
		A15-E-58	STRAY CURRENT TEST BOX DET. & SECT.		

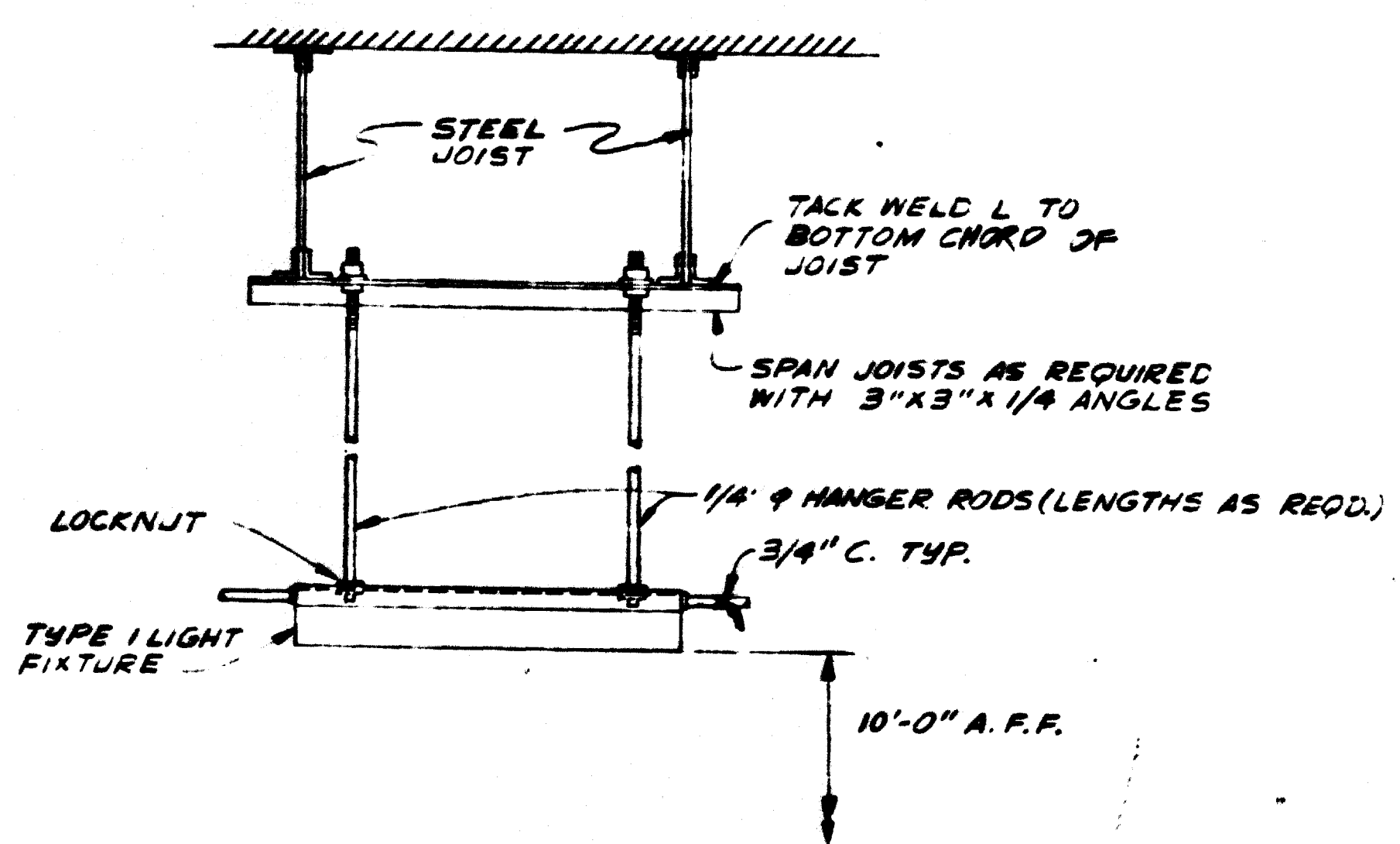


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 HENNINGSON, DURHAM & RICHARDSON OF MARYLAND, INC.
 SECTION DESIGNERS
 DE LEUW, CATHY & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT
 SUBMITTED: *Algis Holukas* DATE: 5/31/78 APPROVED: *Robert [Signature]*

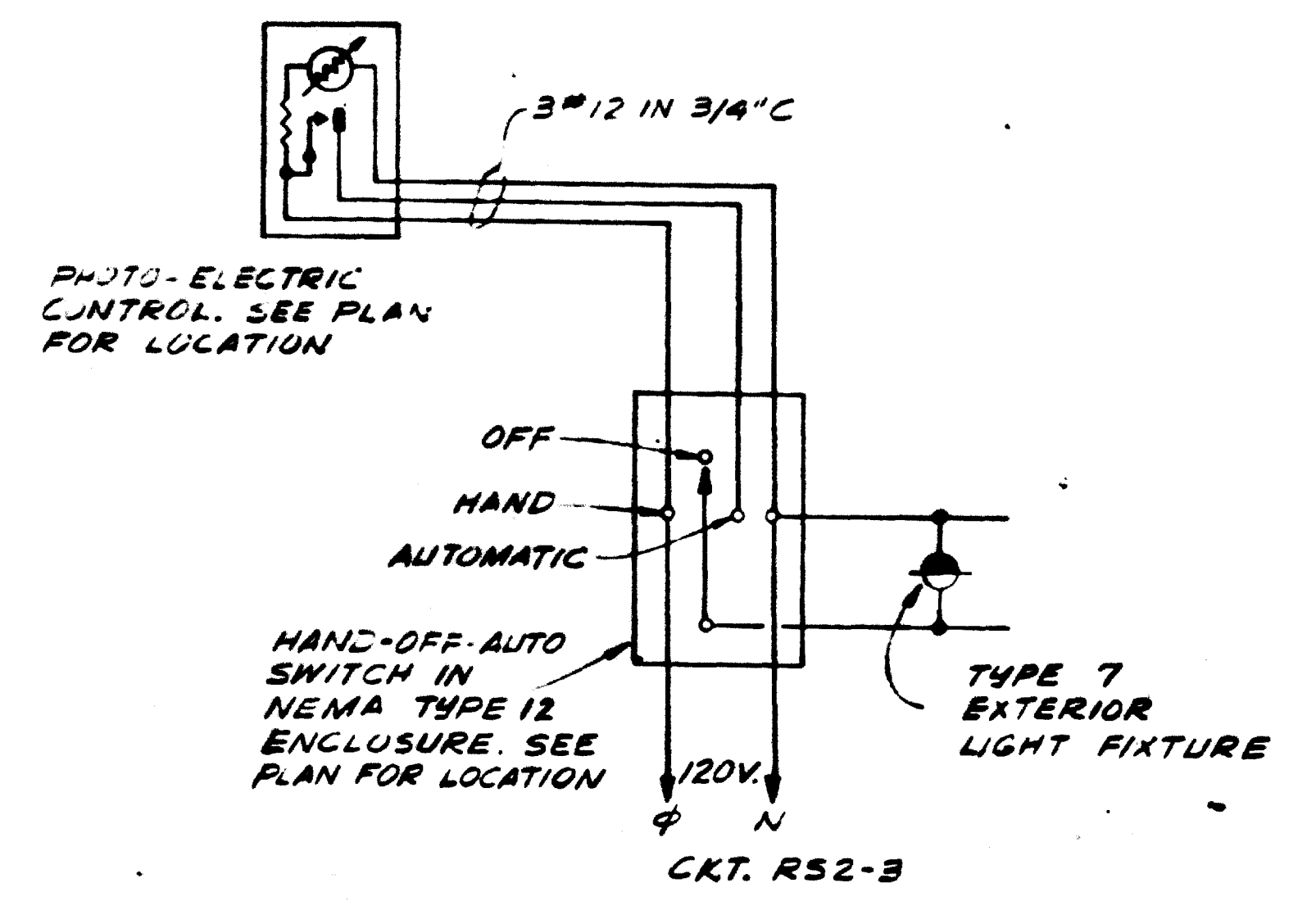
ROCKVILLE ROUTE
 UNDERGROUND DUCT SYSTEM
 STA. 806+00 TO STA. 787+00
 SCALE: 1" = 40'
 DRAWING NO. A15-E-30 M523-62



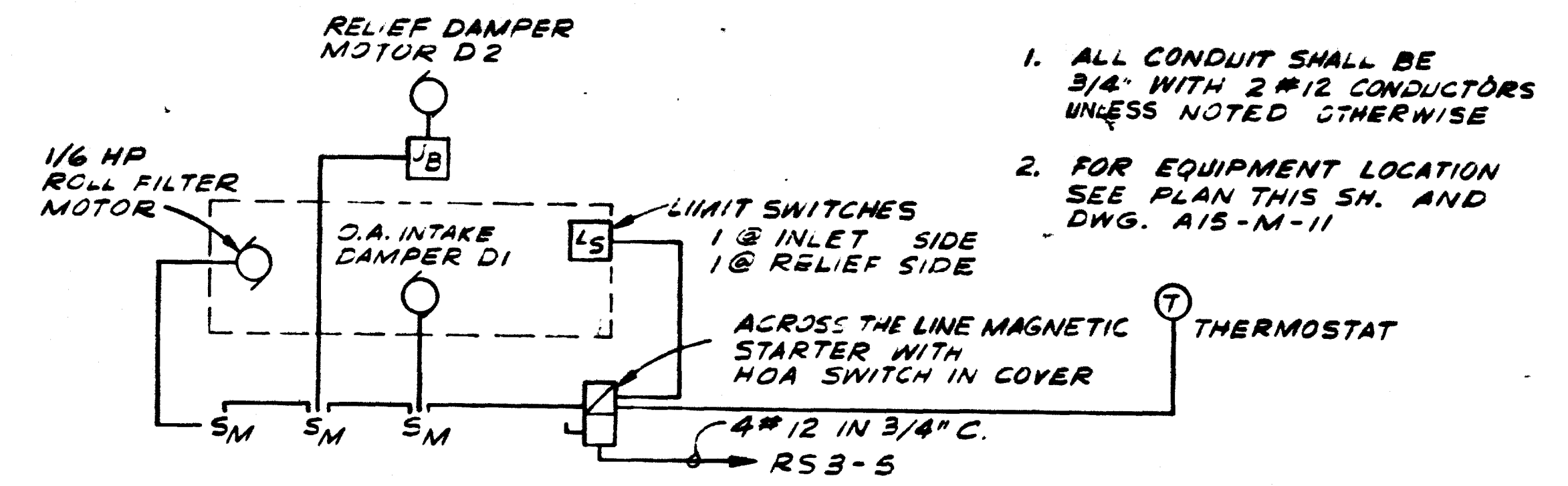
PLAN
SCALE 1/8" = 1'-0"



TYPICAL LIGHT FIXTURE MOUNTING DETAIL
NO SCALE



EXTERIOR LIGHTING WIRING DIAGRAM
NO SCALE



UNIT VENTILATOR CONTROL RISER DIAGRAM
NO SCALE

NOTES
1) ALL DISCONNECT SWITCHES SHALL BE NON FUSIBLE TYPE 30 AMP-3 POLE 600 VOLT RATING UNLESS NOTED OTHERWISE.

1. ALL CONDUIT SHALL BE 3/4" WITH 2 #12 CONDUCTORS UNLESS NOTED OTHERWISE
2. FOR EQUIPMENT LOCATION SEE PLAN THIS SH. AND DWG. A15-M-11

AS-BUILT
Contract No 12009C only
April 22-1983
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President
JACK STONE SIGN INC.

FOR INFORMATION ONLY
USE THIS DRAWING TO LOCATE TUNNEL GRAPHICS PER CONTRACT 12009C ONLY

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1-28-78	W.R.L.	1-28-78		SYMBOLS NOTES & ABBREVIATIONS			
2-6-78	D.B.B.	2-6-78		SUBSTATION AT STA 702			
2-10-78	G.A.F.	2-10-78		PANEL SCHEDULES & RISER DIAGRAM			
5-24-78	V.C.P.	5-24-78		GROUNDING PLANS			
				GROUNDING DETAILS			
				CONDUIT SCHEDULES			

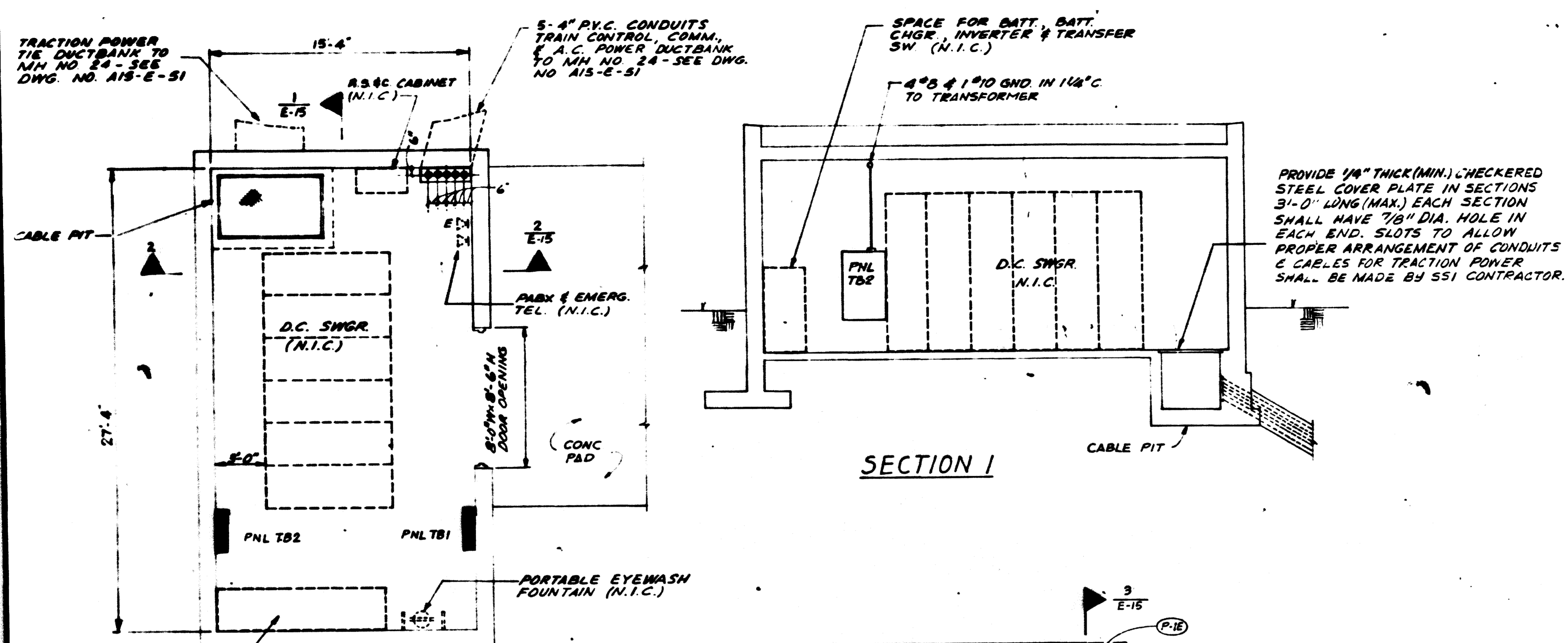


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
HENNINGSON, DURHAM & RICHARDSON, INC.
SECTION DESIGNER
Algis A. Lukas
SUBMITTED DATE 5/31/78

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

ROCKVILLE ROUTE
TWINBROOK STATION TRACTION POWER SUBSTATION
SUBSTATION AT STATION 702
ELECTRICAL PLAN

SCALE 1" = 1'-0" 1 2 4 5 8 10
DRAWING NO. A15-E-16 M523-83



PANEL NO.: TB1 ESSENTIAL
TYPE: LIGHTING 277/480V-3 ϕ 4W.

DESCRIPTION	CONNECTED LOAD (KVA)			CIRCUIT BREAKER		CKT. NO.	CIRCUIT BREAKER	CONNECTED LOAD (KVA)			DESCRIPTION
	A ϕ	B ϕ	C ϕ	FRAME	TRIP			AIC	A ϕ	B ϕ	
PNL TB2	3			100	15	10,000	1				UNIT HTR
PNL TB2		3								2.6	UNIT HTR
PNL TB2			3							2.6	UNIT HTR
BATT. CHGR.	1			100	20	10,000	3			.5	LIGHTS
BATT. CHGR.		1									SPARE
BUSSED SPACE											SPARE
BUSSED SPACE											SPARE
BUSSED SPACE											SPARE
BUSSED SPACE											SPARE
SUB-TOTAL	4	4	4							3.1 2.6 2.6	SUB-TOTAL

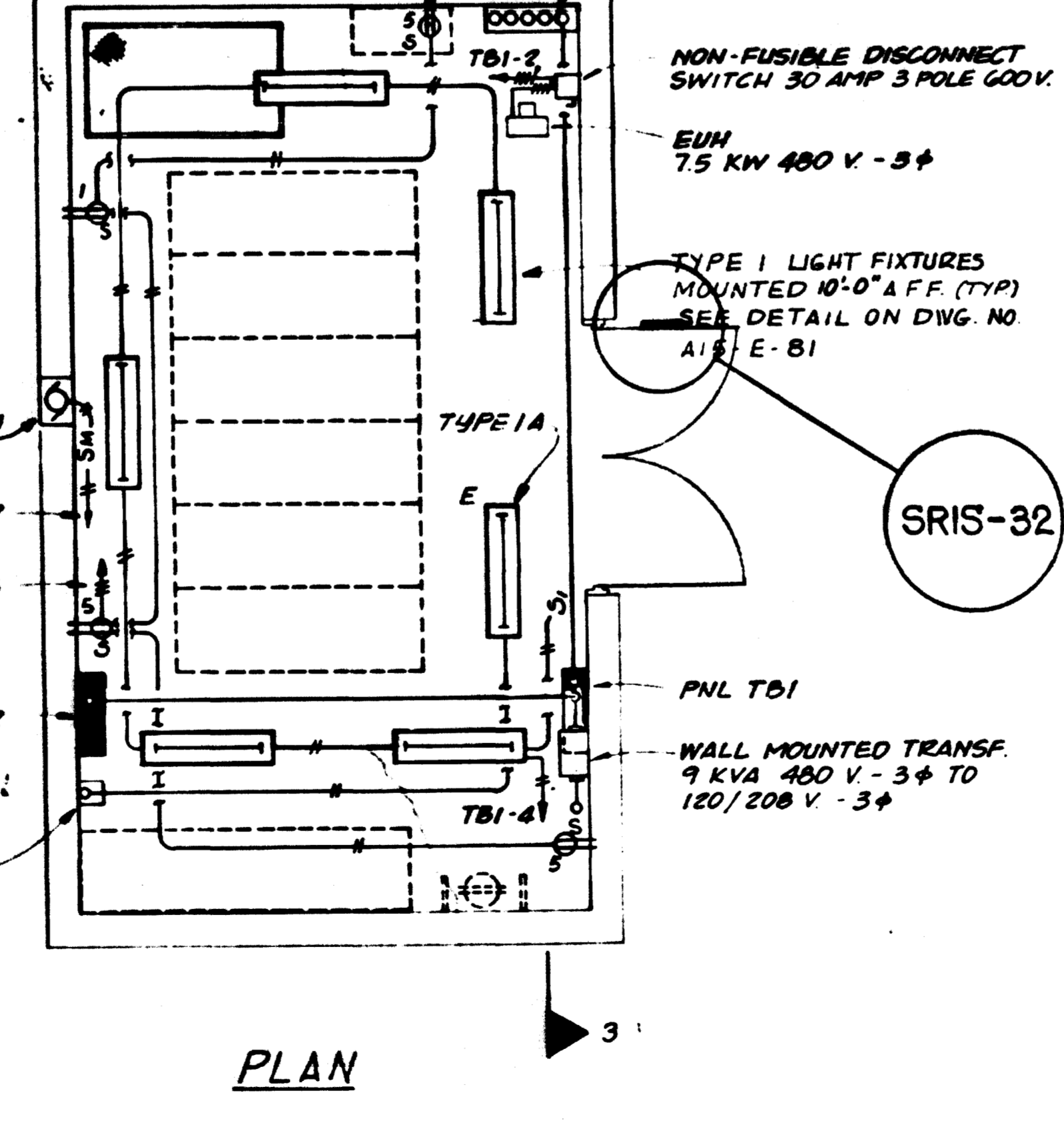
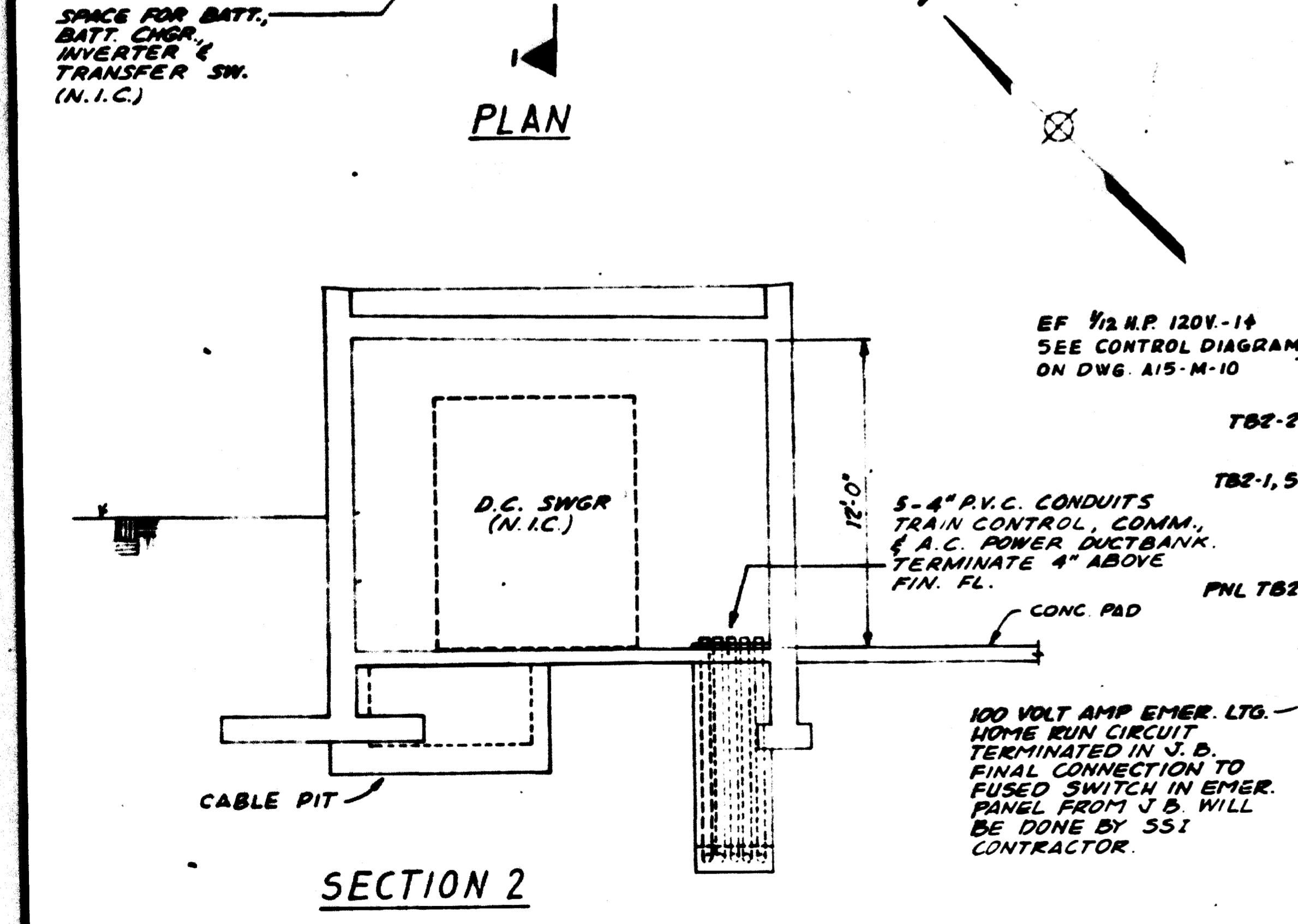
CONNECTED LOAD: A ϕ 7.1 KVA = 25.6 AMPS, B ϕ 6.6 KVA = 23.8 AMPS, C ϕ 6.6 KVA = 23.8 AMPS
TOTALS 20.3 KVA (20% SPARES = 4 KVA)
SUMMER DEMAND = 7.54 KVA, WINTER DEMAND = 12.79 KVA

PNL TB1 SHALL BE SUITABLE FOR SERVICE ENTRANCE.

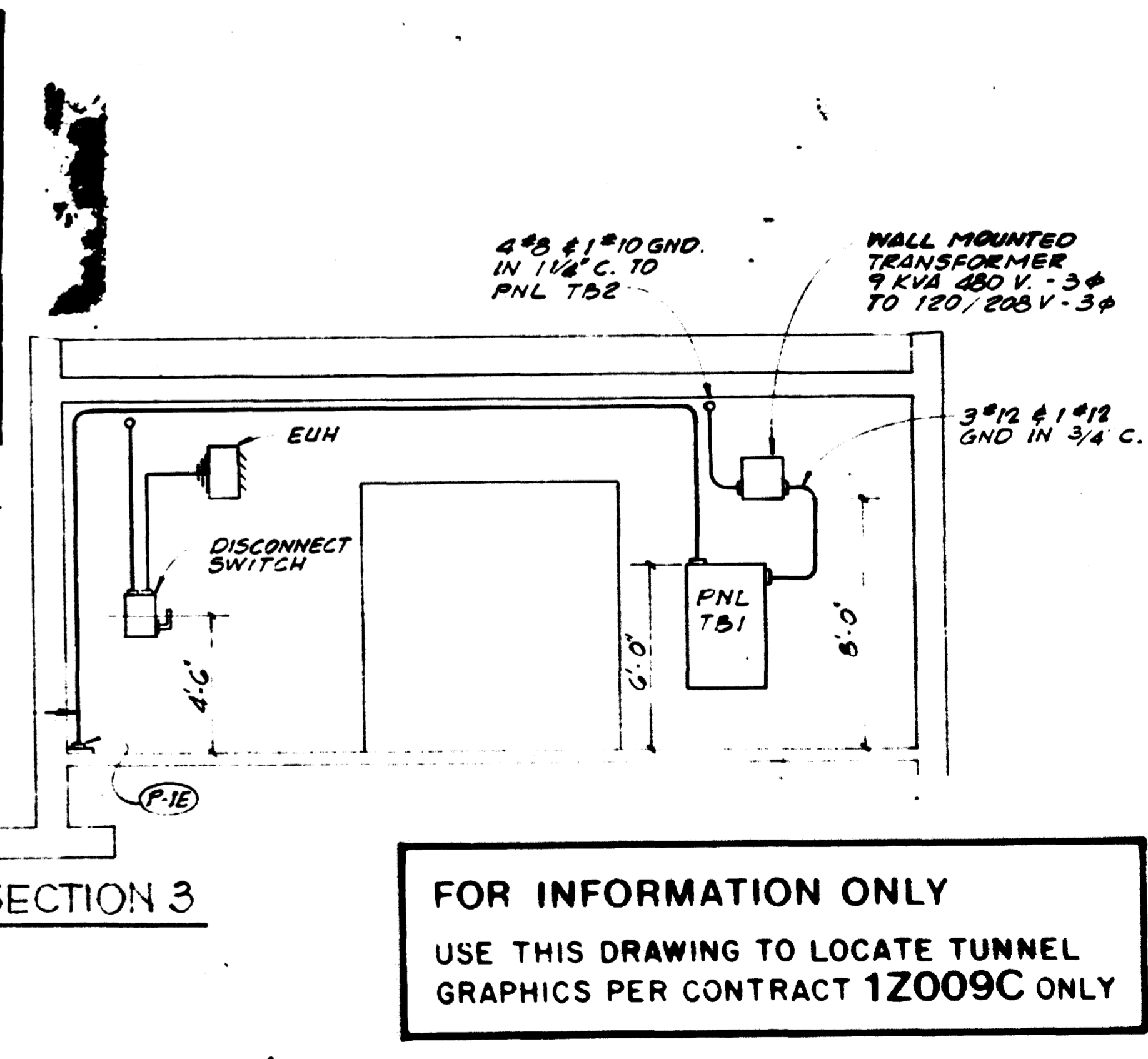
PANEL NO.: TB2 ESSENTIAL
TYPE: POWER 120/208V-3 ϕ 4W.

DESCRIPTION	CONNECTED LOAD (KVA)			CIRCUIT BREAKER		CKT. NO.	CIRCUIT BREAKER	CONNECTED LOAD (KVA)			DESCRIPTION
	A ϕ	B ϕ	C ϕ	FRAME	TRIP			AIC	A ϕ	B ϕ	
RECEPTACLE	1.2			100	20	10,000	1			.5	EXH. FAN
SWGR. SPACE HTR		3		100	40		3				SPARE
RECEPTACLES			.54	100	20		5				1.8 U.F.S. BYPASS SV
BUSSED SPACE											SPARE
BUSSED SPACE											SPARE
BUSSED SPACE											SPARE
BUSSED SPACE											SPARE
SUB-TOTAL	1.2	3	.54							.5 - 1.8	SUB-TOTAL

CONNECTED LOAD: A ϕ 1.7 KVA = 4.2 AMPS, B ϕ 3.0 KVA = 25.0 AMPS, C ϕ 2.4 KVA = 20.0 AMPS
TOTALS 7.1 KVA (20% SPARE = 1.4 KVA)
SUMMER DEMAND = 4.04 KVA, WINTER DEMAND = 5.54 KVA

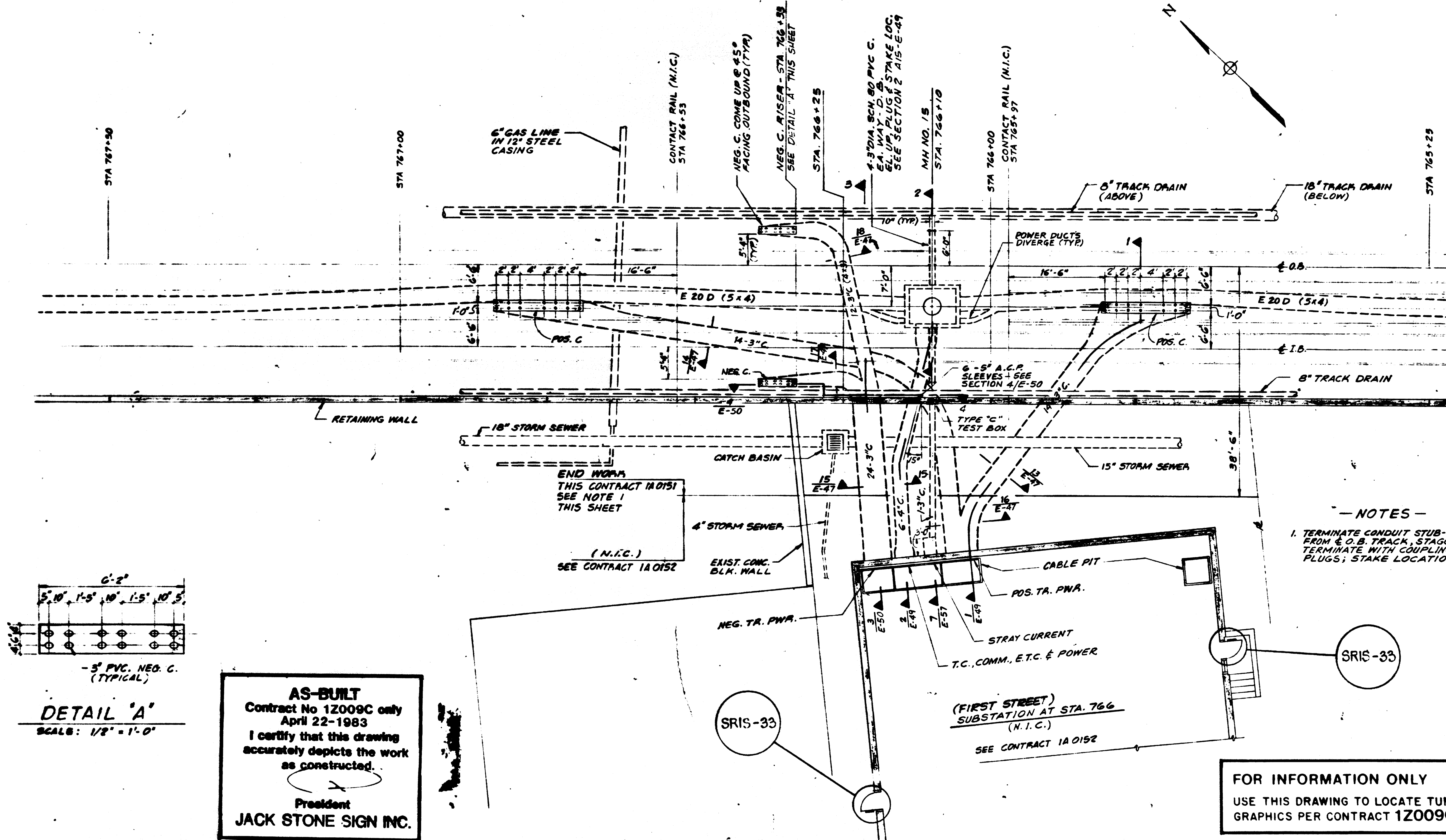
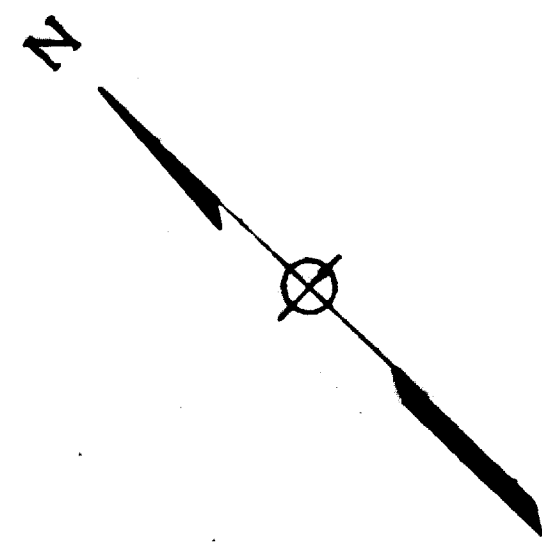


AS-BUILT
Contract No 12009C only
April 22-1983
I certify that this drawing accurately depicts the work as constructed.
President
JACK STONE SIGN INC.



FOR INFORMATION ONLY
USE THIS DRAWING TO LOCATE TUNNEL GRAPHICS PER CONTRACT 12009C ONLY

DESIGNED IVRL 6-4-77	REFERENCE DRAWINGS	REVISIONS	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY			ROCKVILLE ROUTE	
DRAWN NRL 6-10-77	NUMBER DESCRIPTION	DATE BY DESCRIPTION	HENNINGSON, DURHAM & RICHARDSON OF MARYLAND, INC. SECTION DESIGNERS			HIGHWOOD ROAD TIE BREAKER STATION	
CHECKED GAF 7-11-77	E-51 TIE BREAKER STATION AT STA. 737+50		DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT			TIE-BREAKER STATION AT STA. 737+50	
APPROVED VCP 5-24-78	E-29 GROUNDING PLANS		HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT			ELECTRICAL & TRAIN CONTROL PLANS & SECTIONS	
	E-61 CONDUIT SCHEDULES		SUBMITTED <i>Algis A. Antkowiak</i> DATE 5/31/78			SCALE 1/4" = 1'-0"	
	E-81 TIE BREAKER STATION AT STA. 737+50		APPROVED <i>Robert J. [Signature]</i>			DRAWING NO. A15-E-15	
	M-10 TIE BREAKER STATION AT STA. 737+50					ME22-34	



DESIGNED	D. J. D.	1-22-77	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	D. J. D.	1-25-77	DATE	A15-E-1	SYMBOLS, NOTES & ABBREVIATIONS			
CHECKED	G. A. P.	8-1-77	DATE	A15-E-31	UNDERGND. DUCT SYST. 767+00 TO 765+00			
APPROVED	V. C. P.	8-24-77	DATE	A15-U-4	COMPOSITE UTILITY PLAN			
				A15-S-122	RETAINING WALLS STA. 770+50 TO 759+50			
				A15-E-60	CONDUIT SCHEDULES			



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

HENNINGSON, DURHAM & RICHARDSON OF MARYLAND, INC.
SECTION DESIGNERS

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESSE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

Submitted by *Algis A. Lukas* DATE 5/31/78

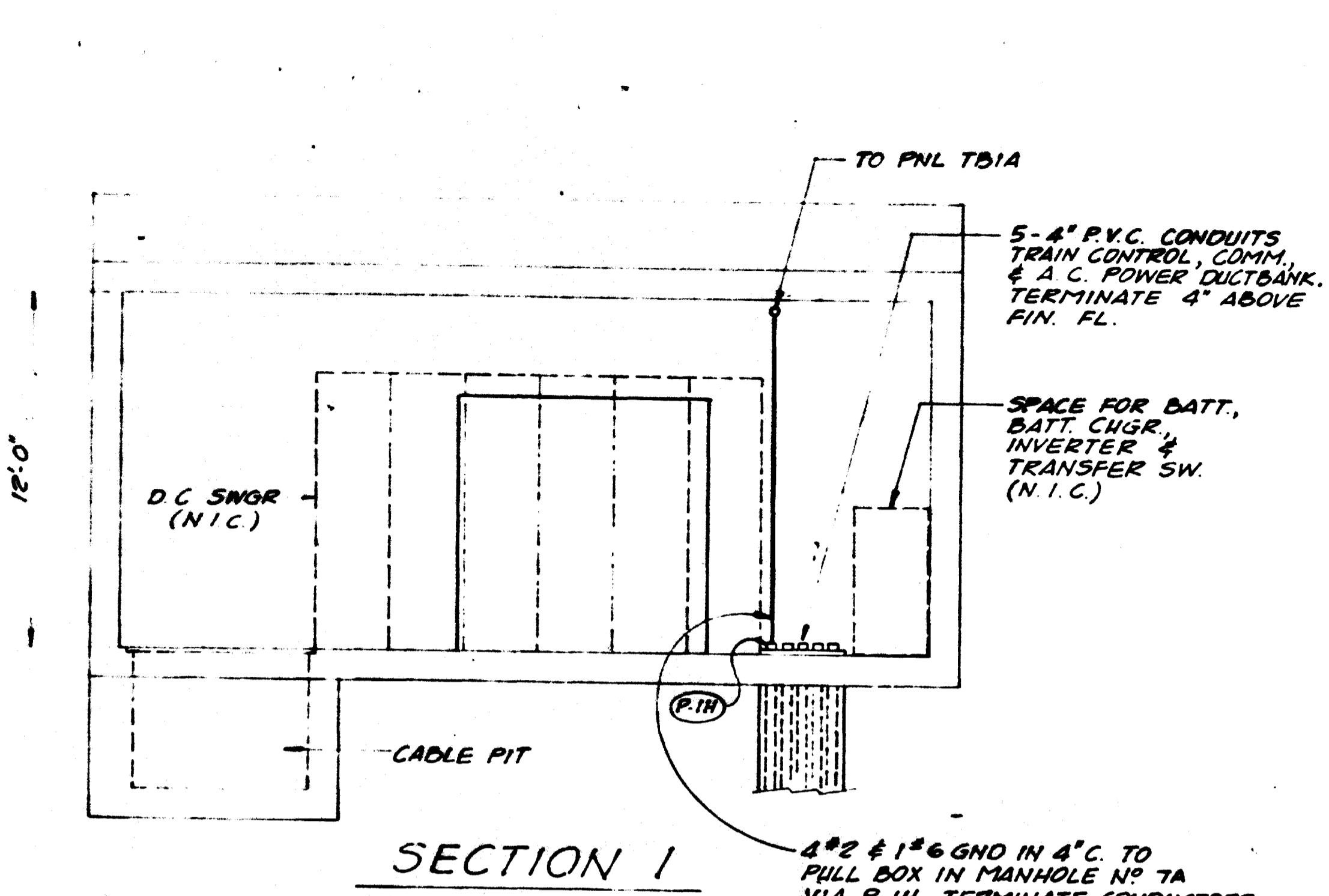
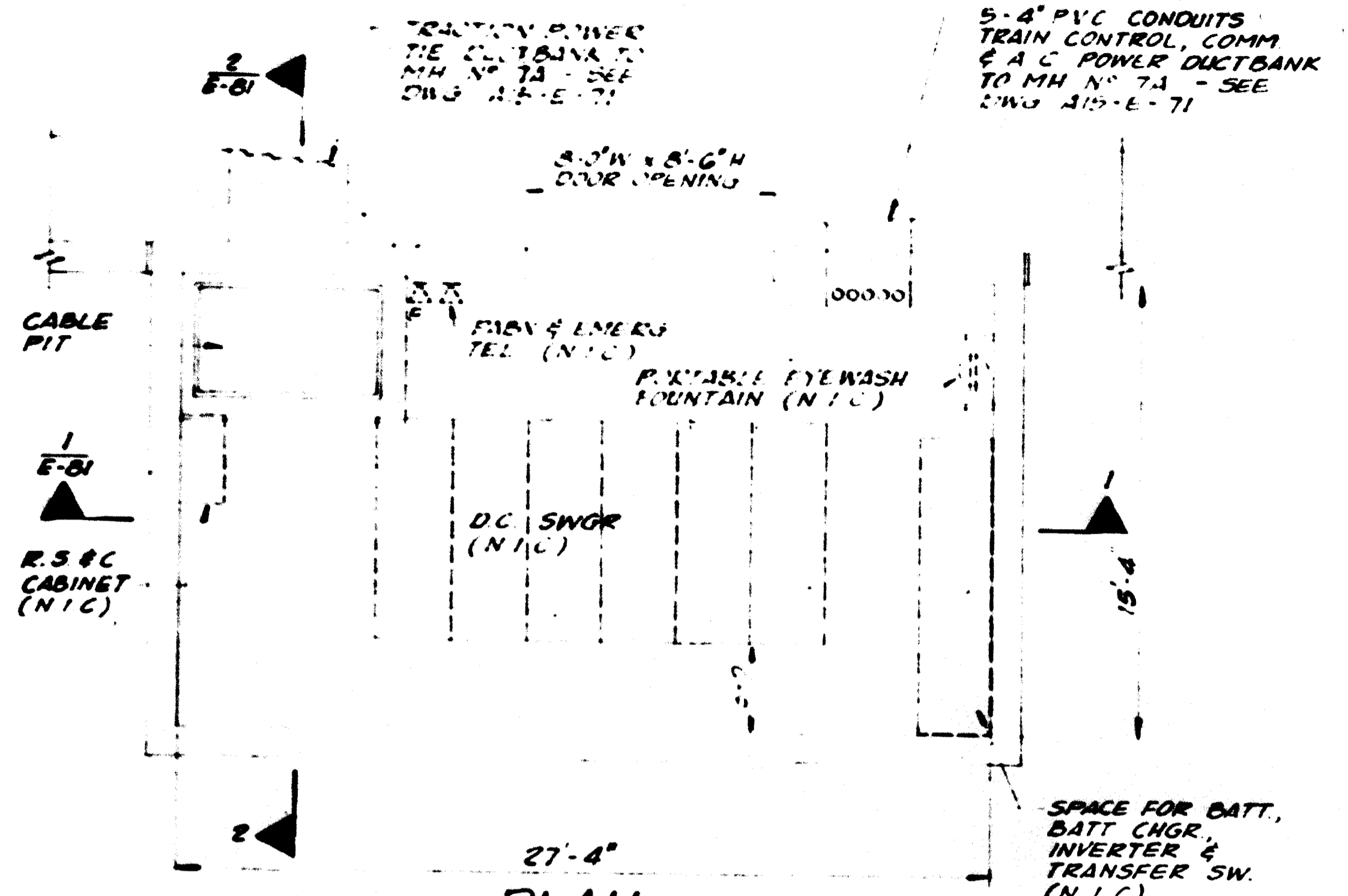
Approved by *Kolbert*

ROCKVILLE ROUTE
UNDERGROUND DUCT PLAN
SUBSTATION AT STA. 766

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

DRAWING NO. A15-E-48

DATE: 8-24-78



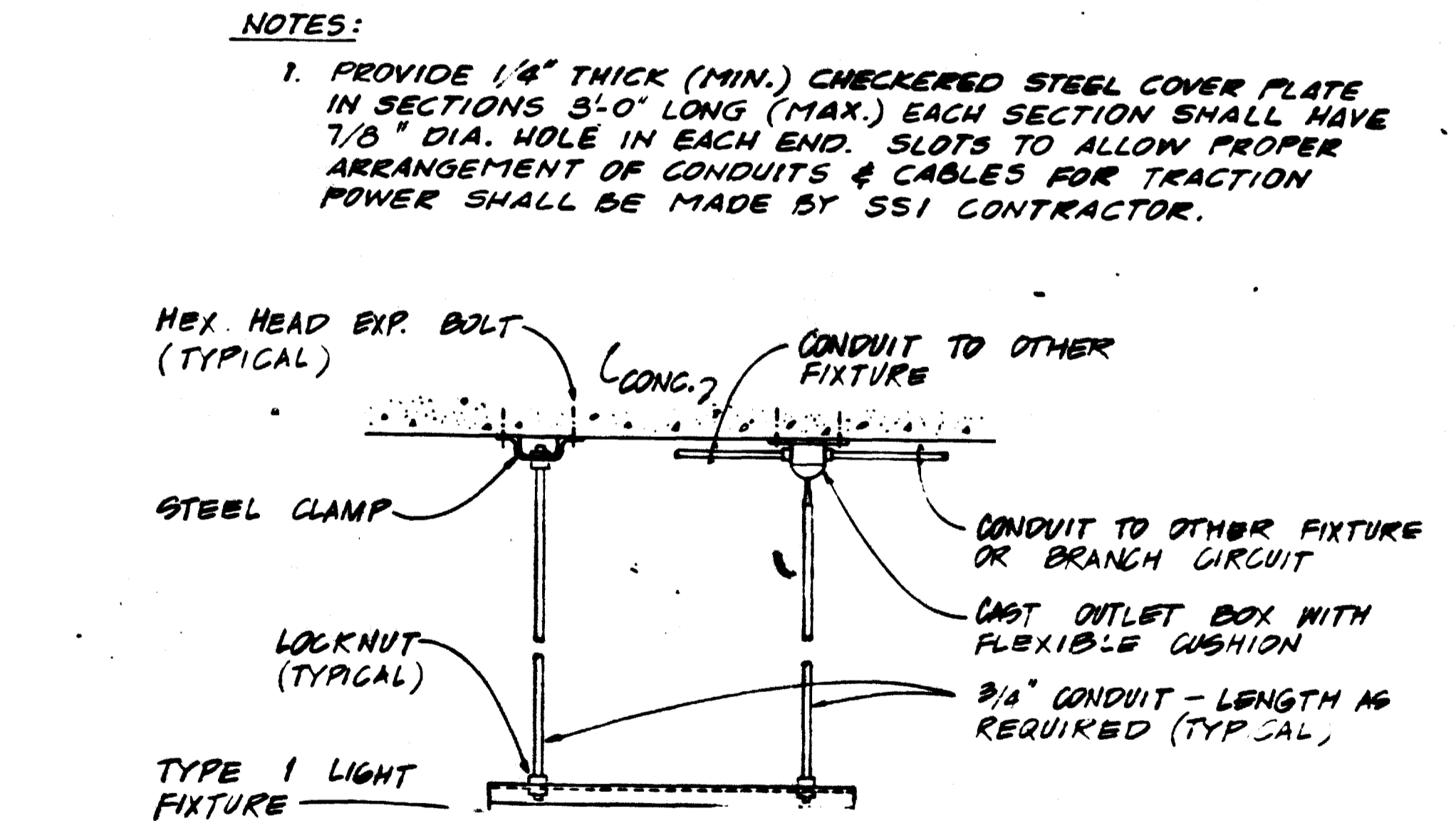
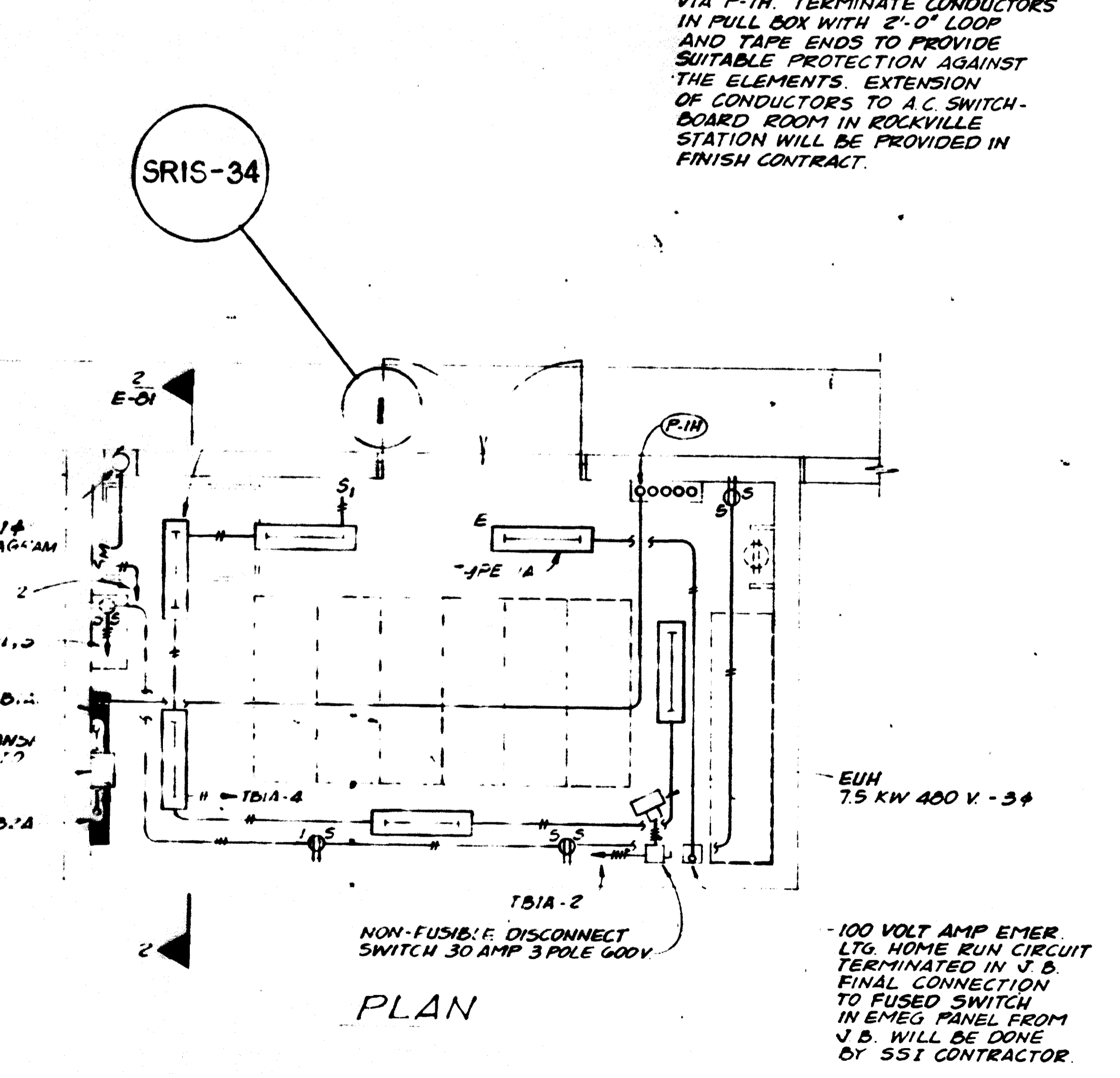
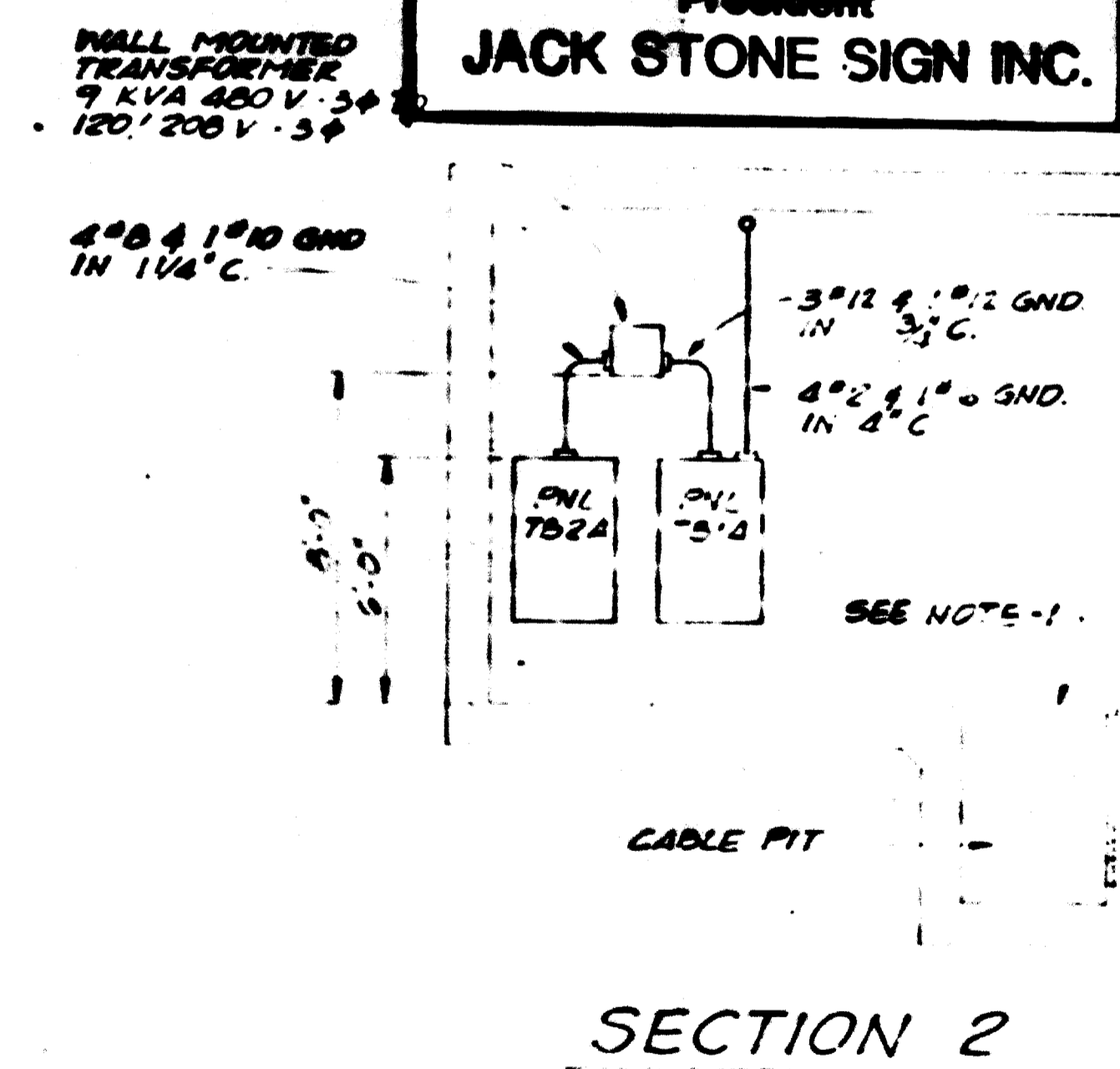
PANEL NO TB1A ESSENTIAL				LOCATION: TIE-BREAKER STATION			
TYPE: LIGHTING 277/480 V - 3Ø 4 W.				MAIN: 100 A.F. 40 A.T. 14,000 A.I.C.			
PANEL MOUNTING: SURFACE				PANEL MOUNTING: SURFACE			
DESCRIPTION	CONNECTED LOAD (KVA)	CIRCUIT BREAKER		CKT NO	DESCRIPTION	CONNECTED LOAD (KVA)	DESCRIPTION
		AØ BØ CØ	FRAME TRIP AIC				
PNL TB2A	3			1	UNIT HTR.	2.6	
PNL TB2A	3	100	15	1,000	UNIT HTR.	2.6	
PNL TB2A	3			2	UNIT HTR.	2.6	
BATT. CHGR.	1			3	LIGHTS		
BATT. CHGR.	1	100	20	1,000	SPARE		
BATT. CHGR.	1			4	SPARE		
BUSSED SPACE	-			5	SPARE		
BUSSED SPACE	-			6	SPARE		
BUSSED SPACE	-			7	SPARE		
BUSSED SPACE	-			8	SPARE		
BUSSED SPACE	-			9	SPARE		
BUSSED SPACE	-			10	SPARE		
BUSSED SPACE	-			11	SPARE		
BUSSED SPACE	-			12	SPARE		
SUB-TOTAL	4.4				SUB-TOTAL	3.1	2.6

CONNECTED LOAD: AØ 7.1 KVA = 25.6 AMPS, BØ 6.6 KVA = 23.8 AMPS, CØ 6.6 KVA = 23.8 AMPS. TOTALS 20.3 KVA (20% SPARES = 4 KVA).
SUMMER DEMAND = 7.54 KVA, WINTER DEMAND = 12.79 KVA.

PANEL NO TB2A ESSENTIAL				LOCATION: TIE-BREAKER STATION			
TYPE: POWER 102/208 V - 3Ø 4 W.				MAIN: 100 A.F. 40 A.T. 10,000 A.I.C.			
PANEL MOUNTING: SURFACE				PANEL MOUNTING: SURFACE			
DESCRIPTION	CONNECTED LOAD (KVA)	CIRCUIT BREAKER		CKT NO	DESCRIPTION	CONNECTED LOAD (KVA)	DESCRIPTION
		AØ BØ CØ	FRAME TRIP AIC				
RECEPTACLE	1.2	100	20	10,000	EXH. FAN		
SWGR SPACE HTR	3	100	40	10,000	SPARE		
RECEPTACLES	.54	100	20	5	SPARE		
BUSSED SPACE	-			6	SPARE		
BUSSED SPACE	-			7	SPARE		
BUSSED SPACE	-			8	SPARE		
BUSSED SPACE	-			9	SPARE		
BUSSED SPACE	-			10	SPARE		
BUSSED SPACE	-			11	SPARE		
BUSSED SPACE	-			12	SPARE		
SUB-TOTAL	1.2	3.54			SUB-TOTAL	.5	1.8

CONNECTED LOAD: AØ 1.7 KVA = 14.2 AMPS, BØ 3.0 KVA = 25.0 AMPS, CØ 2.4 KVA = 20.0 AMPS. TOTALS 7.1 KVA (20% SPARES = 1.4 KVA).
SUMMER DEMAND = 4.04 KVA, WINTER DEMAND = 5.54 KVA.

AS-BUILT
Contract No 12009C only
April 22-1983
I certify that this drawing accurately depicts the work as constructed.
President
JACK STONE SIGN INC.



NOTES:
1. PROVIDE 1/4\"/>

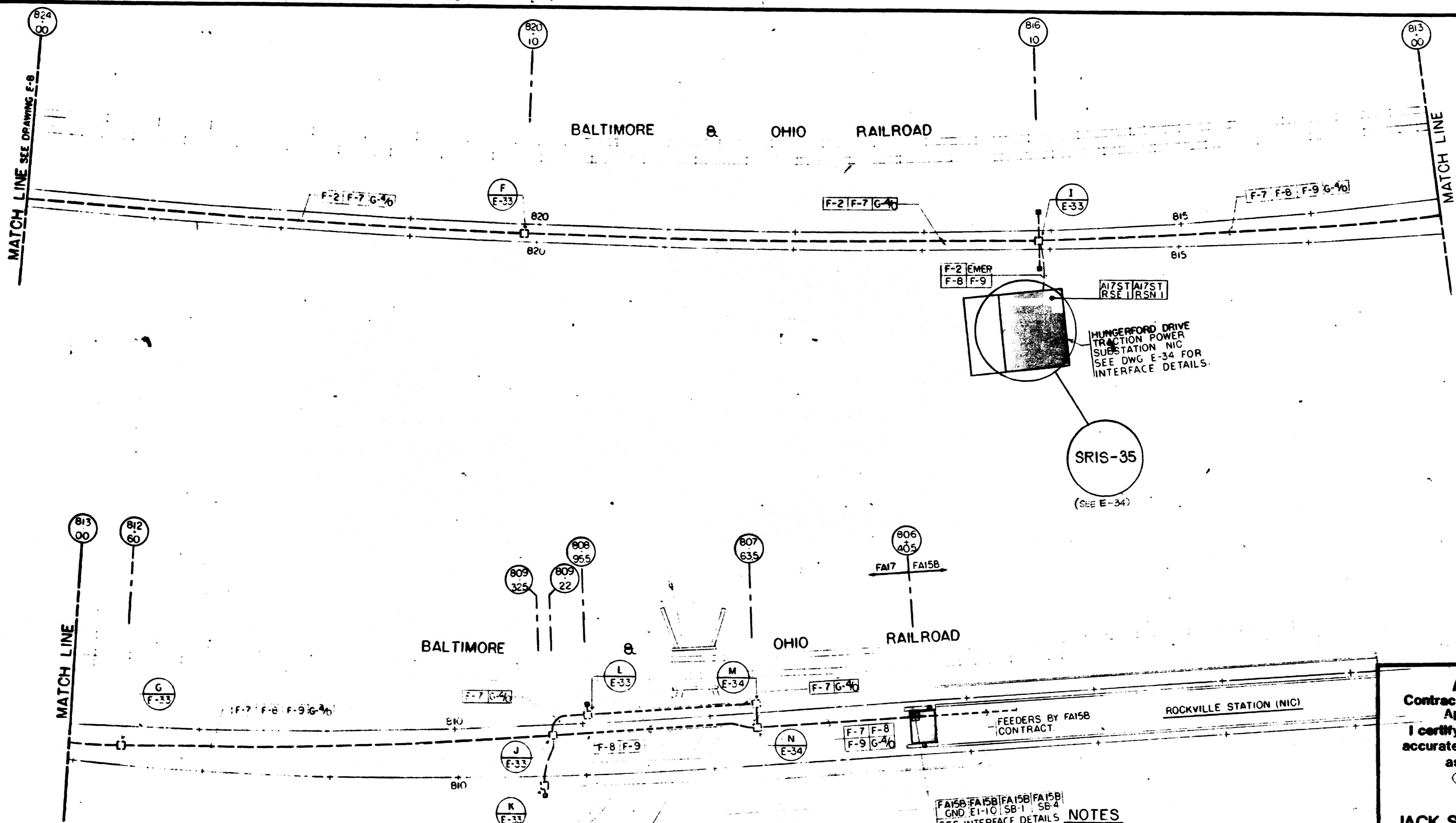
FOR INFORMATION ONLY
USE THIS DRAWING TO LOCATE TUNNEL GRAPHICS PER CONTRACT 12009C ONLY

DESIGNED	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
WRL	2-2-78	E-1	SYMBOLS, NOTES & ABBREVIATIONS			
MJV	2-6-78	E-71	TIE-BREAKER STATION AT STA 787+50			
GAF	2-10-78	E-29	GROUNDING PLANS			
VCP	5-24-78	M-10	TIE-BREAKER STATION AT STA 787+50			

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
HENNINGSON, DURHAM & RICHARDSON, INC. SECTION DESIGNER
DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT
MARRY WESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT

ROCKVILLE ROUTE
VIERS MILLS ROAD TIE BREAKER STATION
TIE-BREAKER STATION AT STA. 787+50
ELECTRICAL & TRAIN CONTROL PLANS & SECTIONS

SCALE: 1" = 1'-0" DRAWING NO: A15-E-81 M523-86



AS-BUILT
 Contract No 1Z009C only
 April 22-1983
 I certify that this drawing
 accurately depicts the work
 as constructed.
 President
JACK STONE SIGN INC.

- NOTES**
1. FOR EMERGENCY TRIP STATION CONNECTION, SEE DETAIL ON DRAWING E 41 AND DWG. F-36
 2. MANHOLES, DUCTS, CONDUITS AND EMERGENCY TRIP STATIONS ARE NIC

FOR INFORMATION ONLY
 USE THIS DRAWING TO LOCATE TUNNEL
 GRAPHICS PER CONTRACT 1Z009C ONLY

DESIGNED		DATE		NUMBER		DESCRIPTION		DATE		BY		DESCRIPTION	
GRW	-2/77												
MAN	2/77												
ARP	10/73												
ARP	10/73												

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

RUMMEL, KLEPPER & KAHL — CONSULTING ENGINEERS
 SECTION DESIGNERS
 A R PEREZ & ASSOCIATES — CONSULTING ENGINEERS
 ELECTRICAL CONSULTANT

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

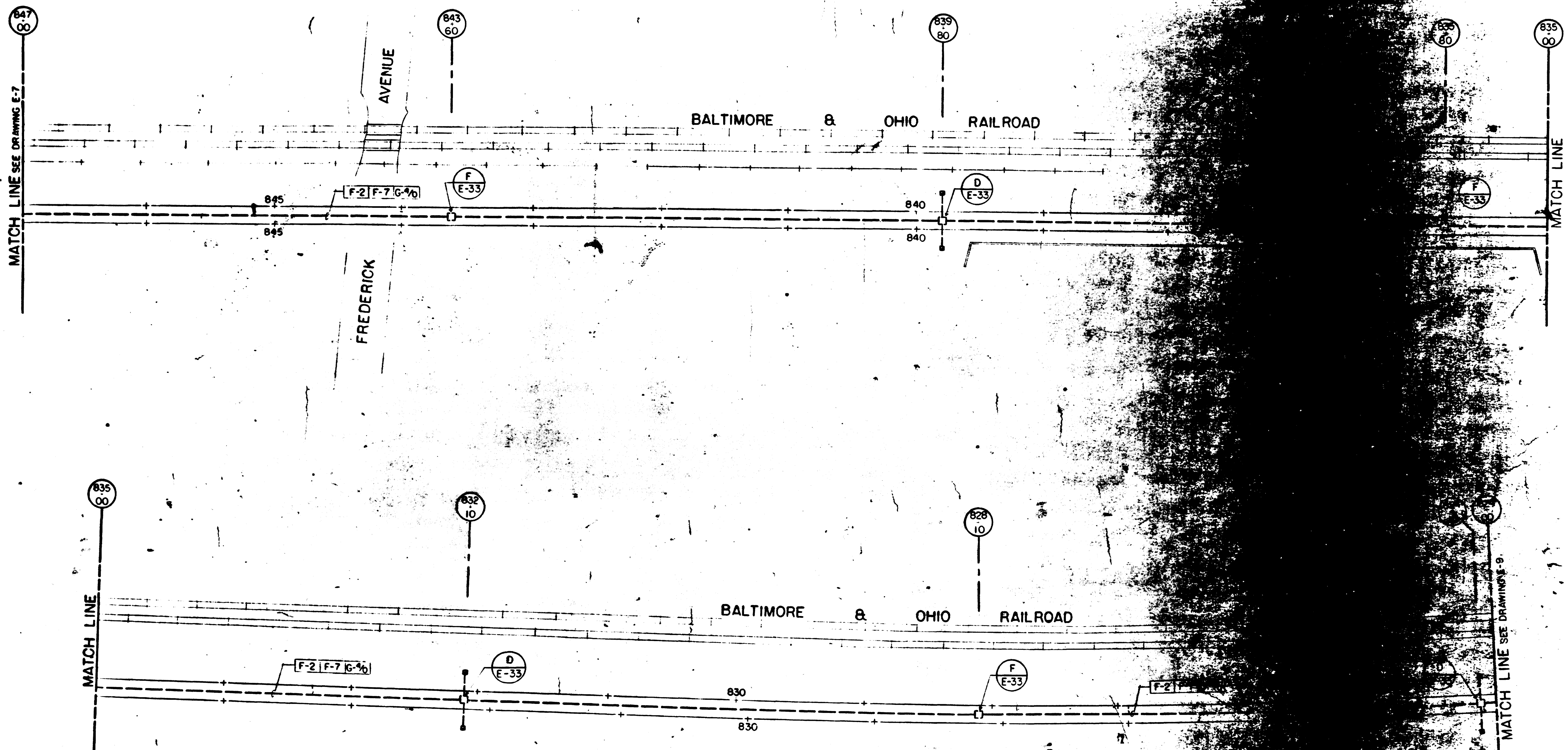
HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED: _____ APPROVED: _____

ROCKVILLE ROUTE
 ELECTRICAL PLAN
 STA 824+00 TO STA 806+40±

SCALE: 1" = 40'

DRAWING NO. FA17-E-9

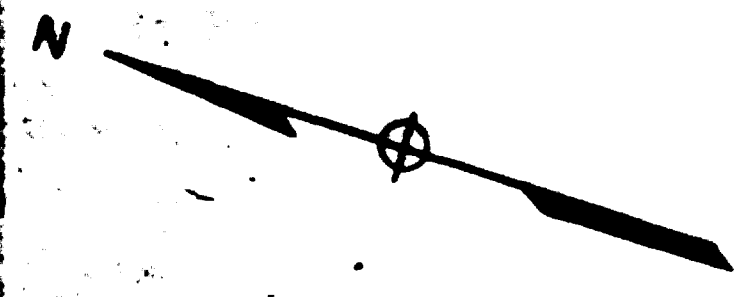


AS-BUILT
 Contract No 12009C only
 April 22-1983
 I certify that this drawing
 accurately depicts the work
 as constructed.
 President
JACK STONE SIGN INC.

NOTES

1. FOR EMERGENCY REPAIRS
 SEE DETAIL ON DWG. E-8
2. MANHOLES, DUCTS, CONDUITS,
 TRIP STATIONS ARE NOT TO BE
 COVERED.

FOR INFORMATION
 USE THIS DRAWING FOR
 GRAPHICS PER CONTRACT



DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
GRW		2/77					
MAN		2/77					
ARP		10/79					
ARP		10/79					

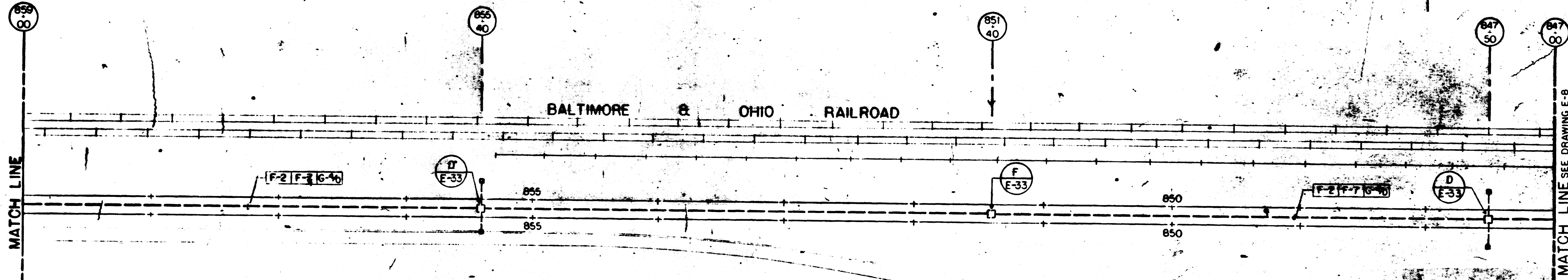
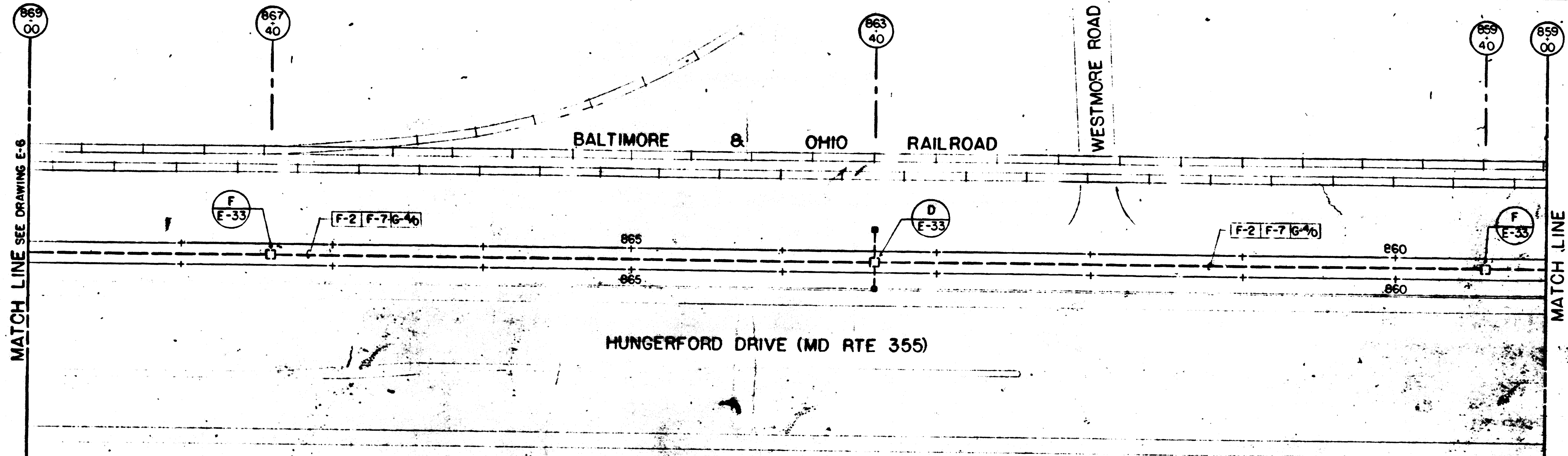
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

RUMMEL, KLEPPER & KAHL — CONSULTING ENGINEERS SECTION DESIGNERS A R PEREZ & ASSOCIATES — CONSULTING ENGINEERS ELECTRICAL CONSULTANT	DE LEUW, CATHAR & COMPANY GENERAL ENGINEERING CONSULTANT <input checked="" type="checkbox"/>
	HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT <input type="checkbox"/>

SUBMITTED _____ APPROVED _____

ROCKVILLE ROUTE
ELECTRICAL PLAN
 STA 847+00 TO STA 824+00

SCALE _____ DRAWING NO. FA17-E-8 M52 88



NOTES

1. FOR EMERGENCY TRIP STATION CONNECTION, SEE DETAIL ON DWG. E-41 AND DWG. E-36.
2. MANHOLES DUCTS CONDUITS AND EMERGENCY TRIP STATIONS ARE NIC.

NOT TO BE BUILT
 CONTRACT NO. 12009C only
 DATE 10-1983
 THIS DRAWING
 PICTURES THE WORK
 TO BE CONSTRUCTED.
JACK STONE SIGN INC.

FOR INFORMATION ONLY
 USE THIS DRAWING TO LOCATE TUNNEL
 GRAPHICS PER CONTRACT 12009C ONLY

	DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	DESCRIPTION
	GRW	2/77				
	MAN	2/77				
	ARP	10/79				
	ARP	10/79				

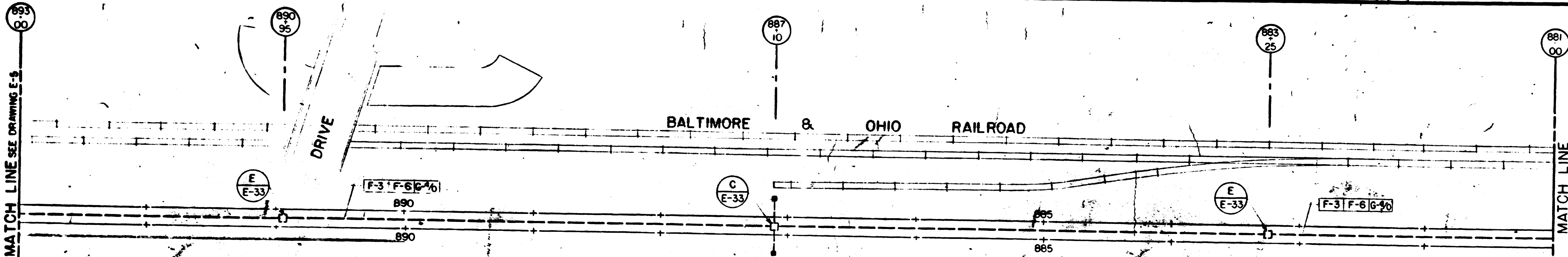
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

RUMMEL, KLEPPER & KAHL — CONSULTING ENGINEERS SECTION DESIGNERS A R PEREZ & ASSOCIATES — CONSULTING ENGINEERS ELECTRICAL CONSULTANT	DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT
SUBMITTED	APPROVED

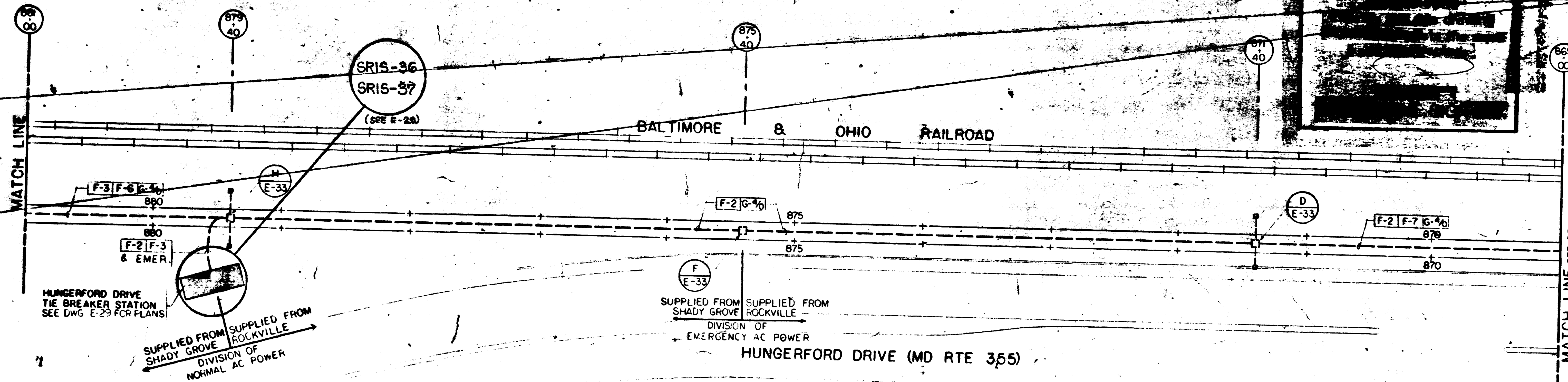
ROCKVILLE ROUTE
 ELECTRICAL PLAN
 STA 869+00 TO STA 847+00

SCALE: 1" = 40'

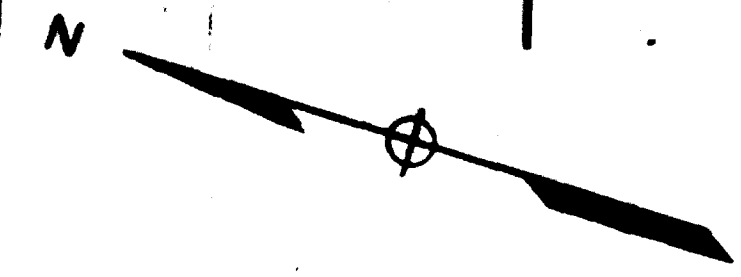
DRAWING NO. FA17-E-7



NOTES
 1. FOR EMERGENCY TRIP STATION CONNECTION, DETAIL ON DWG E-41 AND DWG E-36.
 2. MANHOLES, DUCTS CONDUITS AND EMERGENCY TRIP STATIONS ARE N.I.C.



FOR INFORMATION ONLY
 USE THIS DRAWING TO LOCATE TUNNEL GRAPHICS PER CONTRACT 1Z009C ONLY



DESIGNED		DATE		NUMBER		DESCRIPTION		DATE		BY		REVISIONS		DESCRIPTION	
DESIGNED	GRW	2/77													
DRAWN	MAN	2/77													
CHECKED	ARP	9/73													
APPROVED	ARP	9/73													

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

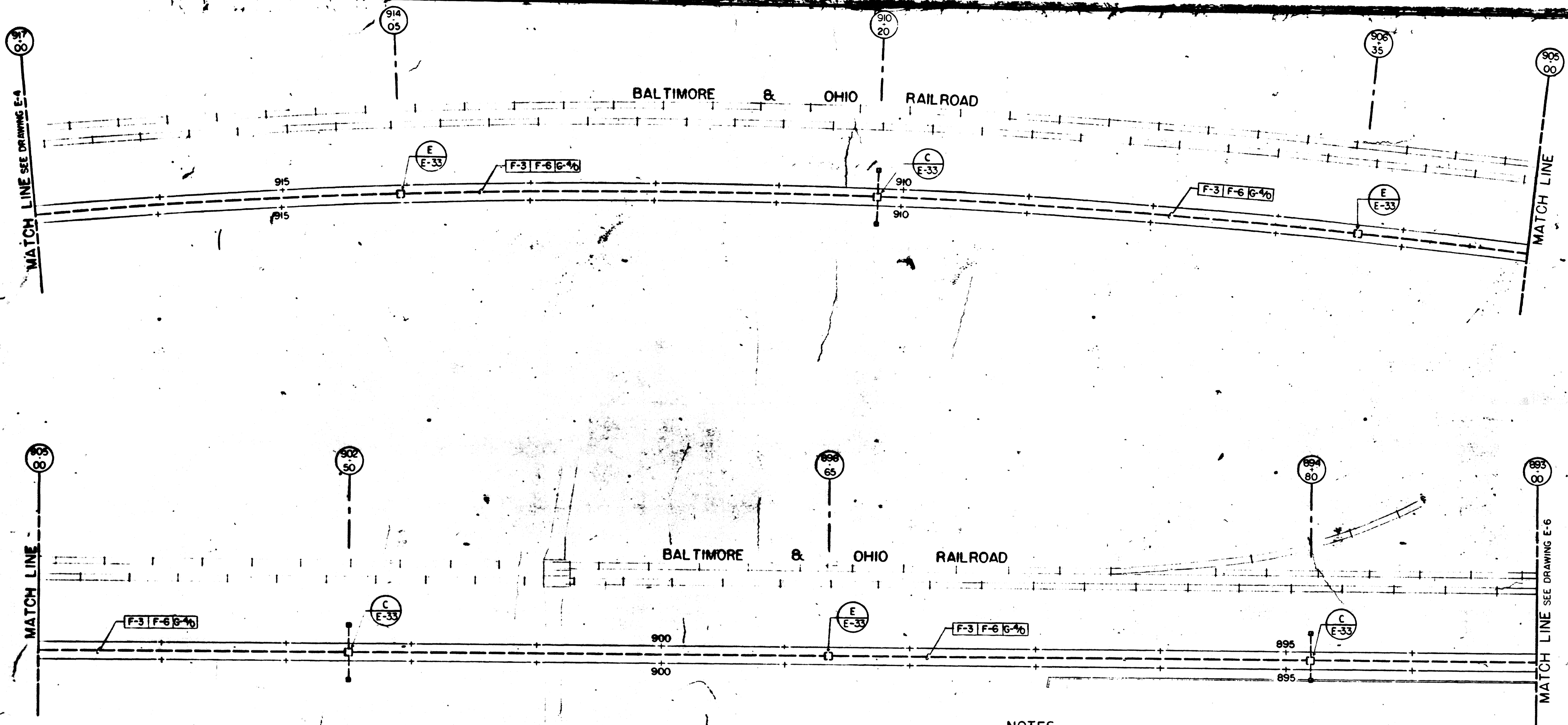
RUMMEL, KLEPPER & KAHL — CONSULTING ENGINEERS
 SECTION DESIGNERS
 A R PEREZ & ASSOCIATES — CONSULTING ENGINEERS
 ELECTRICAL CONSULTANT

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

ROCKVILLE ROUTE
 ELECTRICAL PLAN
 STA 893+00 TO STA 869+00

SCALE 1" = 40'

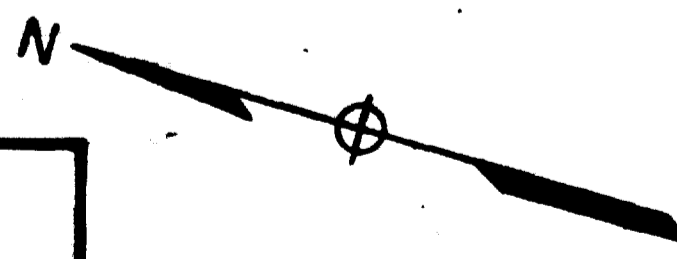
DRAWING NO. FA17-E-6 M523-90



- NOTES**
1. FOR EMERGENCY TRIP STATION CONNECTION DETAILS, SEE DETAILS ON DWG E-41 AND DWG E-36.
 2. MANHOLES, DUCTS, AND EMERGENCY TRIP STATIONS ARE NIC

AS-BUILT
 Contract No 1Z009C only
 April 22-1983
 I certify that this drawing
 accurately depicts the work
 as constructed.
 President
JACK STONE SIGN INC.

FOR INFORMATION ONLY
 USE THIS DRAWING TO LOCATE TUNNEL
 GRAPHICS PER CONTRACT 1Z009C ONLY



DESIGNED		DATE		NUMBER		DESCRIPTION		DATE		BY		REVISIONS		DESCRIPTION	
GRW	2/77														
MAN	2/77														
ARP	9/79														
ARP	9/79														

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

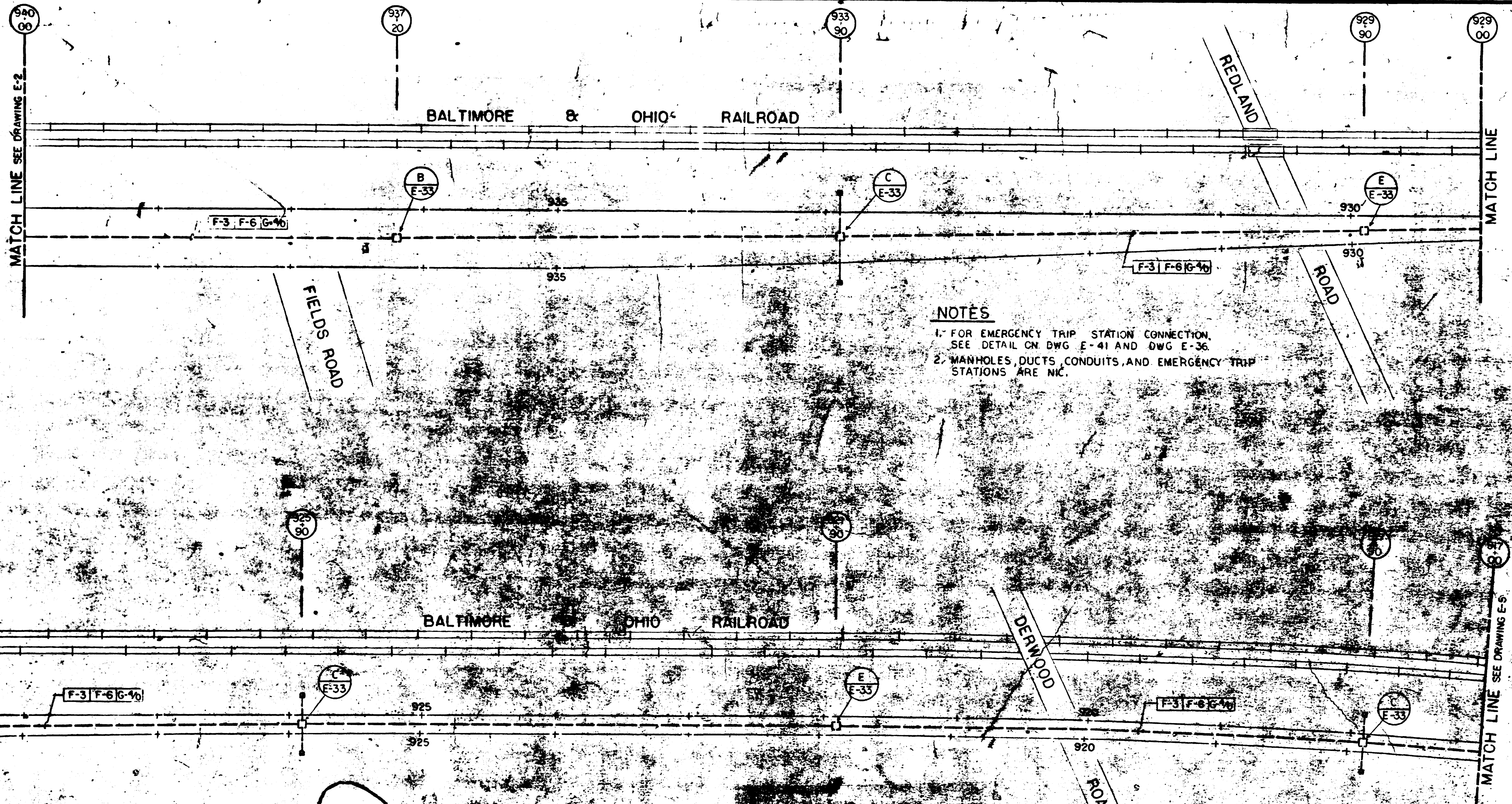
RUMMEL, KLEPPER & KAHL — CONSULTING ENGINEERS SECTION DESIGNERS	DE LEUW, CATHER & COMPANY GENERAL ENGINEERING CONSULTANT
A R PEREZ & ASSOCIATES — CONSULTING ENGINEERS ELECTRICAL CONSULTANT	HARRY WEESE & ASSOCIATES GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED _____ APPROVED _____

ROCKVILLE ROUTE
 ELECTRICAL PLAN
 STA 917+00 TO STA 893+00

SCALE 1" = 40'

DRAWING NO. FA17-E-5 M526-91



NOTES

1. FOR EMERGENCY TRIP STATION CONNECTION, SEE DETAIL ON DWG E-41 AND DWG E-36.
2. MANHOLES, DUCTS, CONDUITS, AND EMERGENCY TRIP STATIONS ARE NIC.

I hereby certify that this drawing
 depicts the work
 as constructed.
 President
STONE SIGN INC.

FOR INFORMATION ONLY
 USE THIS DRAWING TO LOCATE TUNNEL
 GRAPHICS PER CONTRACT 1Z009C ONLY



DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
GRW	2/77					
DRAWN	2/77					
CHECKED	9/79					
APPROVED	9/79					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

RUMMEL, KLEPPER & KAHL — CONSULTING ENGINEERS
 SECTION DESIGNERS
 A R PEREZ & ASSOCIATES — CONSULTING ENGINEERS
 ELECTRICAL CONSULTANT

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

ROCKVILLE ROUTE
 ELECTRICAL PLAN
 STA 940+00 TO STA 917+00

SCALE 1" = 40'

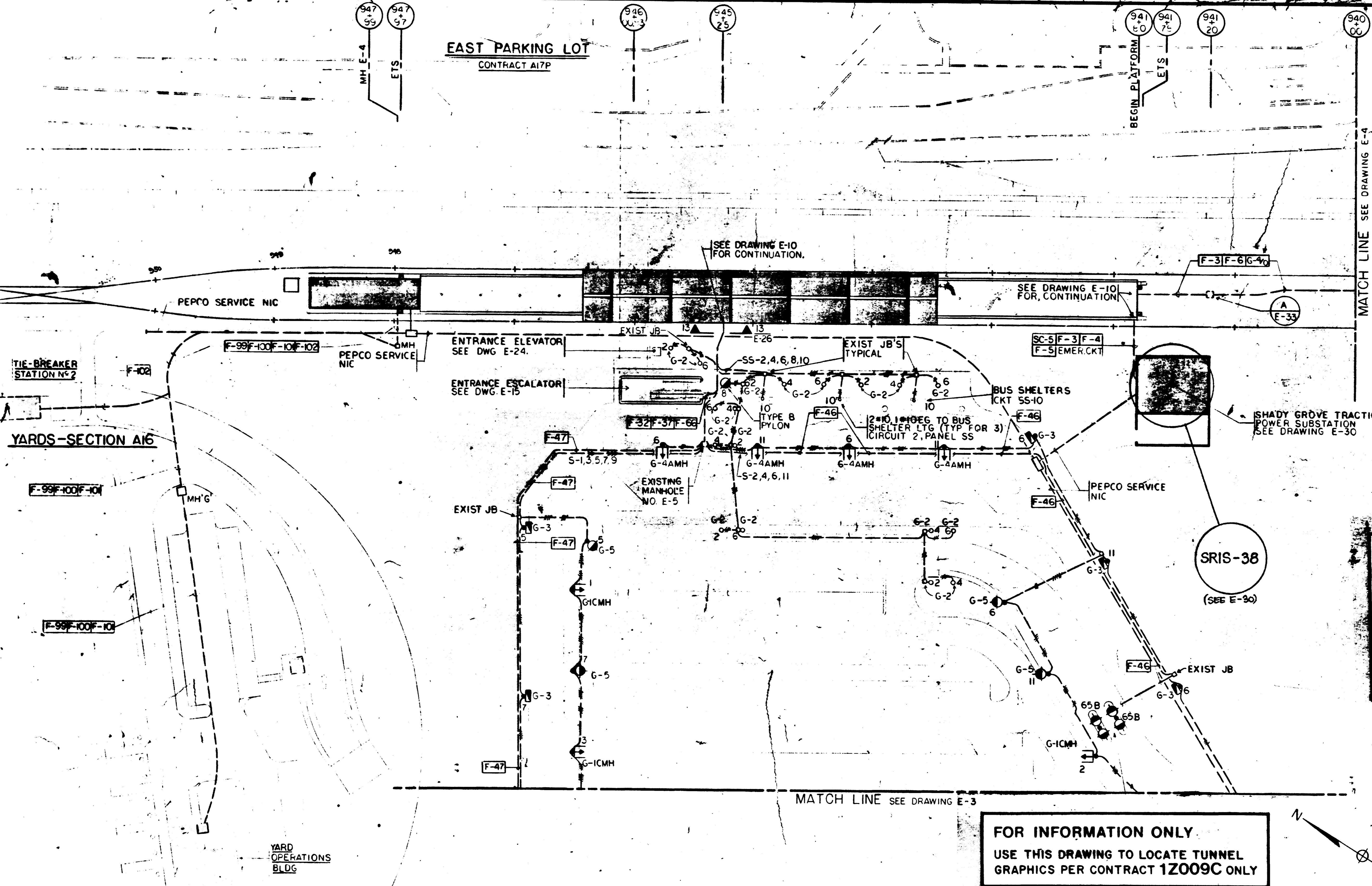
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EAST PARKING LOT

CONTRACT A17P

NOTE:

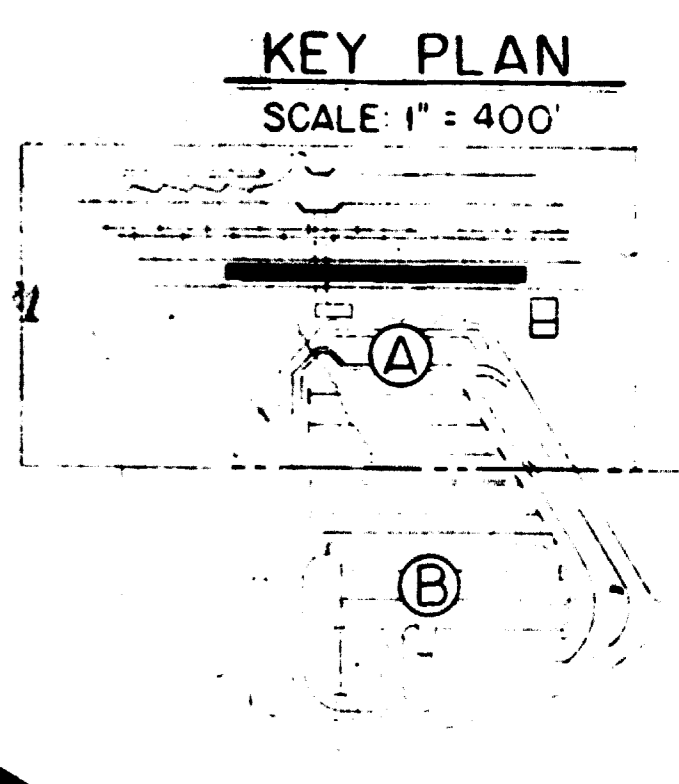
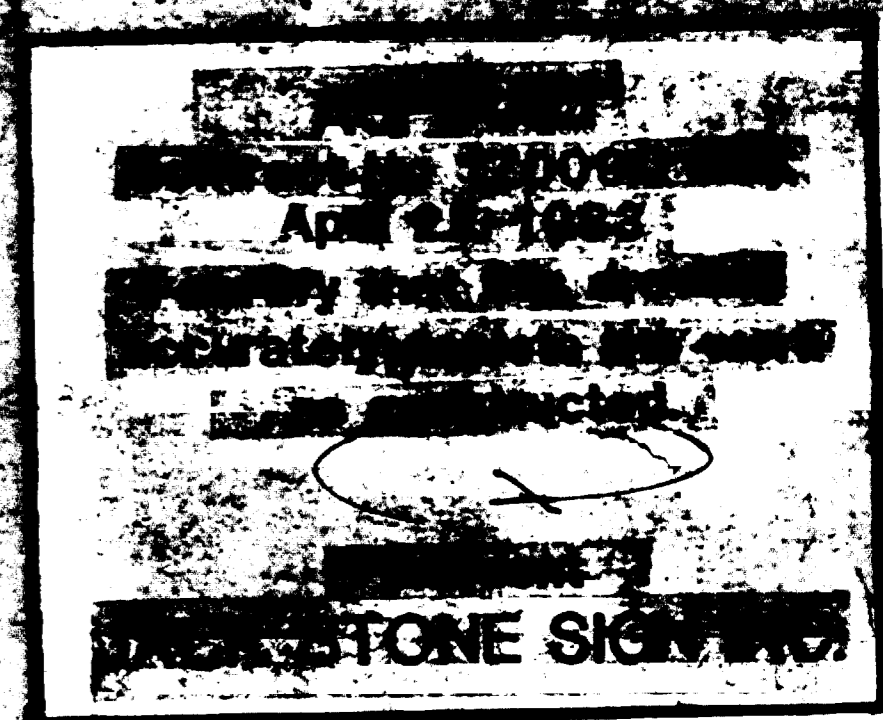
- LIGHTING CIRCUITS THIS SHEET NO. 10 WIRING IN EXIST. CONDUITS AS FOLLOWS:
 CKTS S-1,3,5,7,9 --- (P)
 CKTS S-2,4,6,11 --- (P)
 CKTS SS-2,4,6,8,10 --- (P)
- RACEWAY SYSTEM IS EXISTING. INCLUDES CONDUITS, DUCTS, MANHOLE, JUNCTION AND PULL BOXES AND LIGHTING FIXTURE BASES.
- FOR LIGHTING FIXTURES AND BASE DETAILS SEE REFERENCED STANDARD DWGS. AND E-32



MATCH LINE SEE DRAWING E-4

MATCH LINE SEE DRAWING E-3

FOR INFORMATION ONLY
 USE THIS DRAWING TO LOCATE TUNNEL GRAPHICS PER CONTRACT 1Z009C ONLY



DESIGNED	GRW	2/77	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	MAN	2/77	ST-A-14	EXTERIOR LIGHTING FIXTURES		
CHECKED	ARP	9/79	ST-A-24	PYLON BASE DETAILS		
APPROVED	ARP	9/79	ST-A-40	EXTERIOR LIGHTING FIXTURES		

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

RUMMEL, KLEPPER & KAHL—CONSULTING ENGINEERS
 SECTION DESIGNERS

A R PEREZ'S ASSOCIATES—CONSULTING ENGINEERS
 ELECTRICAL CONSULTANT

DE LEUW, CATHER & COMPANY
 GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED _____ APPROVED _____

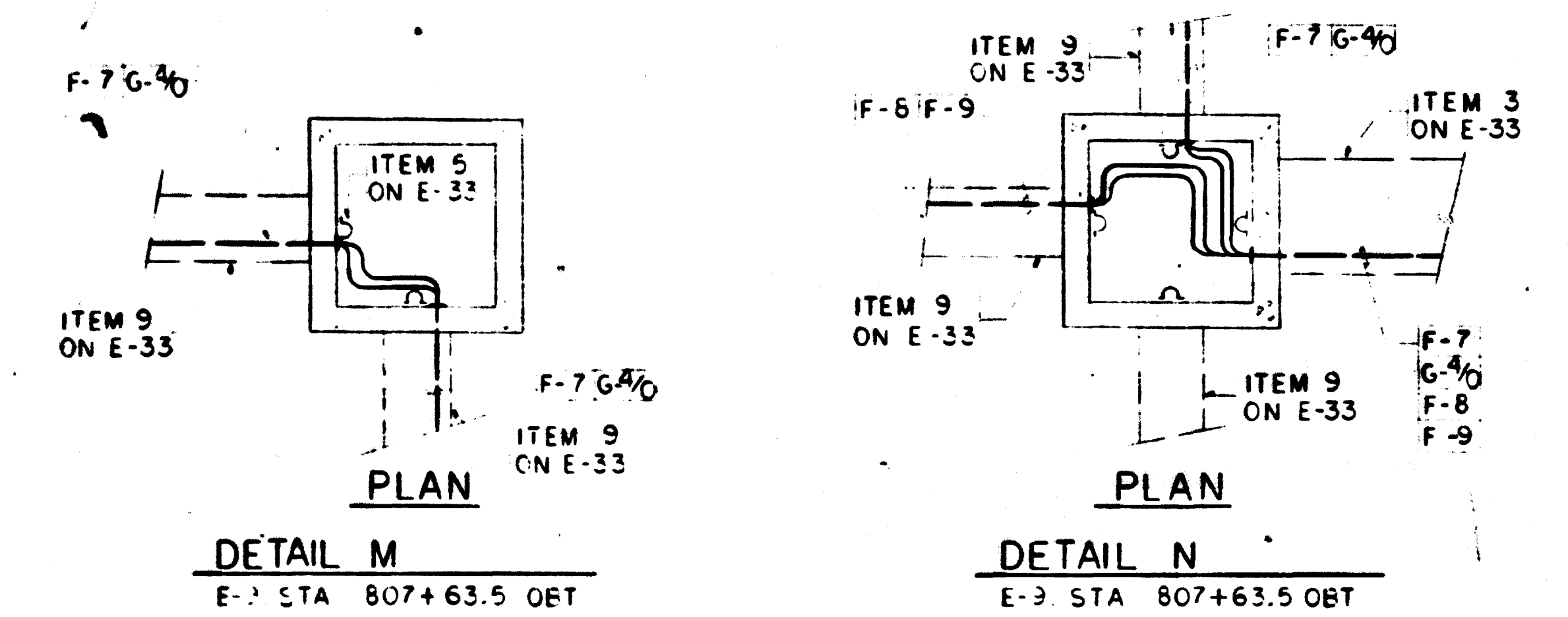
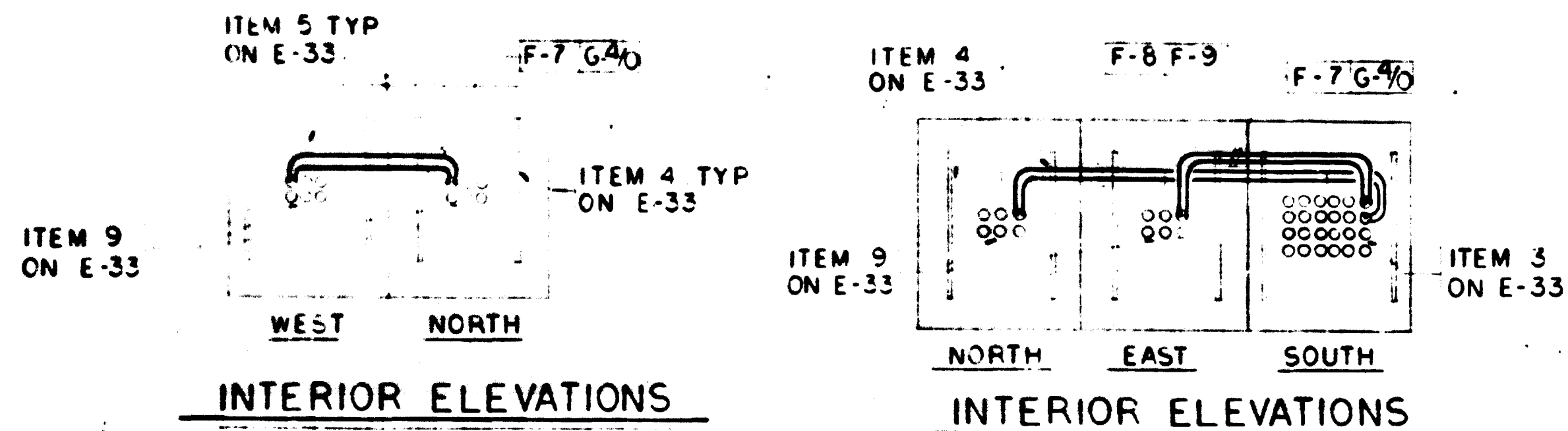
ROCKVILLE ROUTE

ELECTRICAL PLAN STA. 950+18.04 TO STA. 940+00

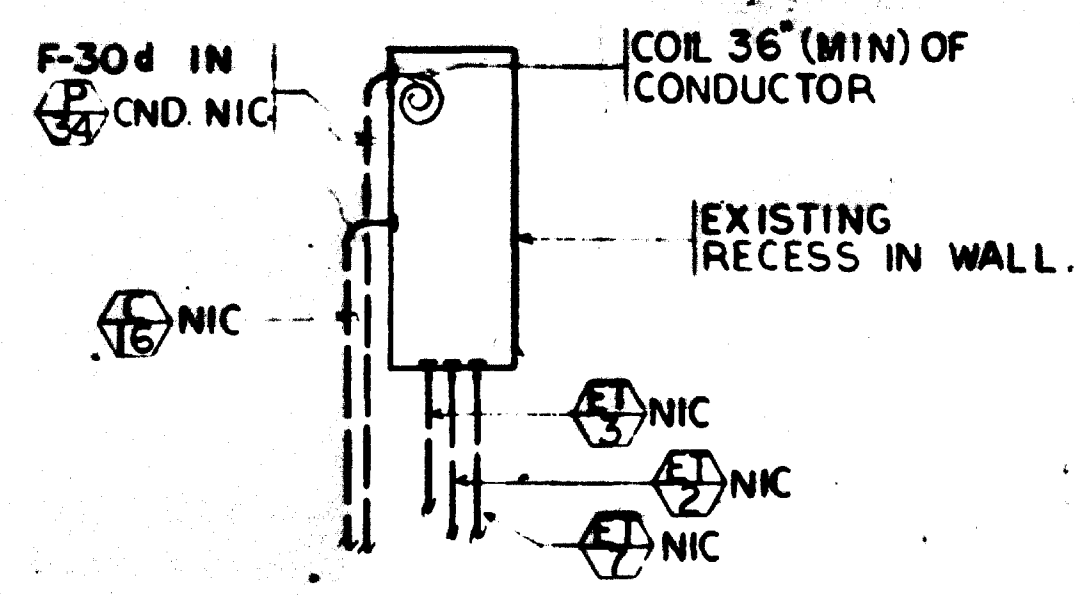
SHADY GROVE STATION - PART A

SCALE: 1" = 40'

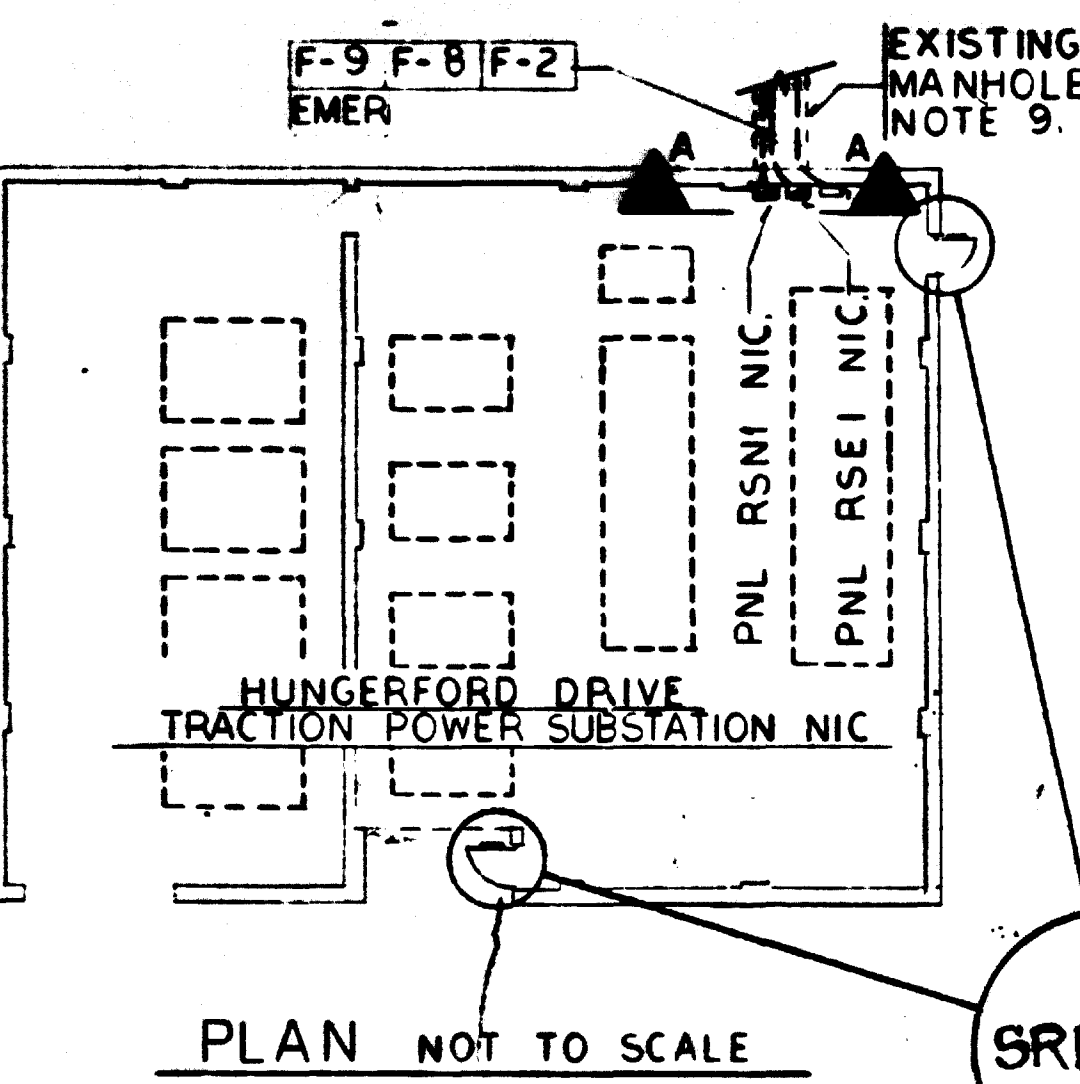
DRAWING NO. FA17-E-2 M523-93



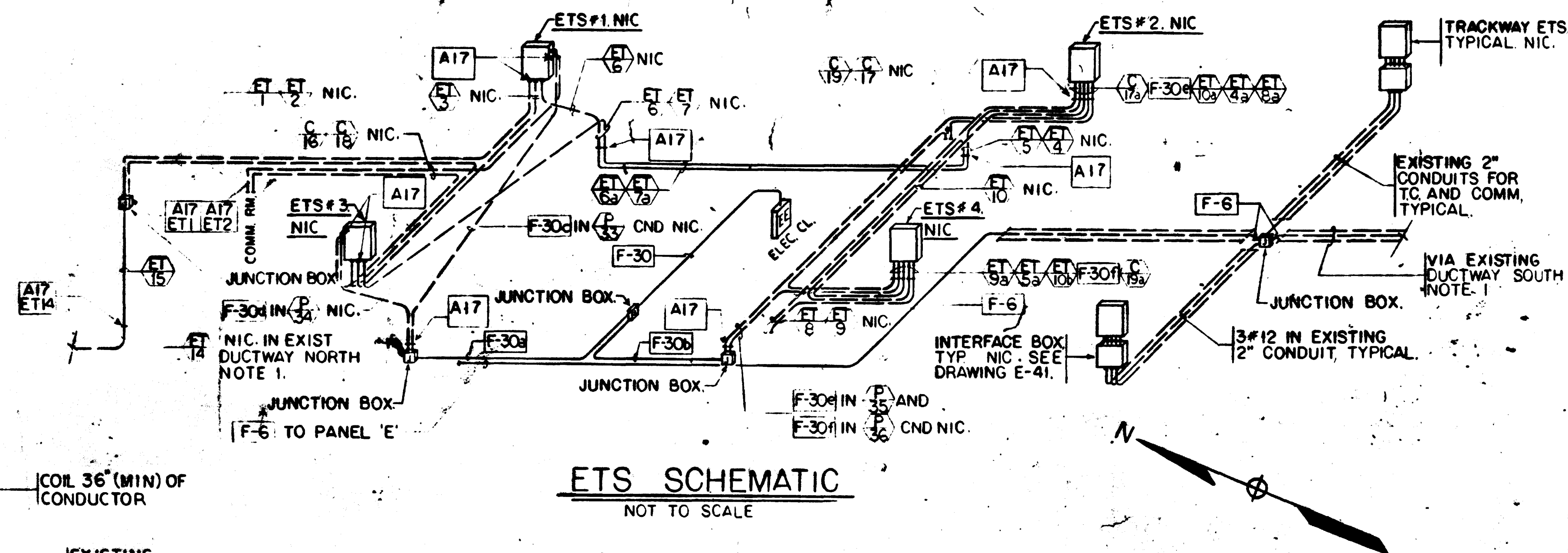
MANHOLES DETAILS NOT TO SCALE



DETAIL O-EXISTING RECESS FOR ETS #3.(ETS #1 SIMILAR) NOT TO SCALE

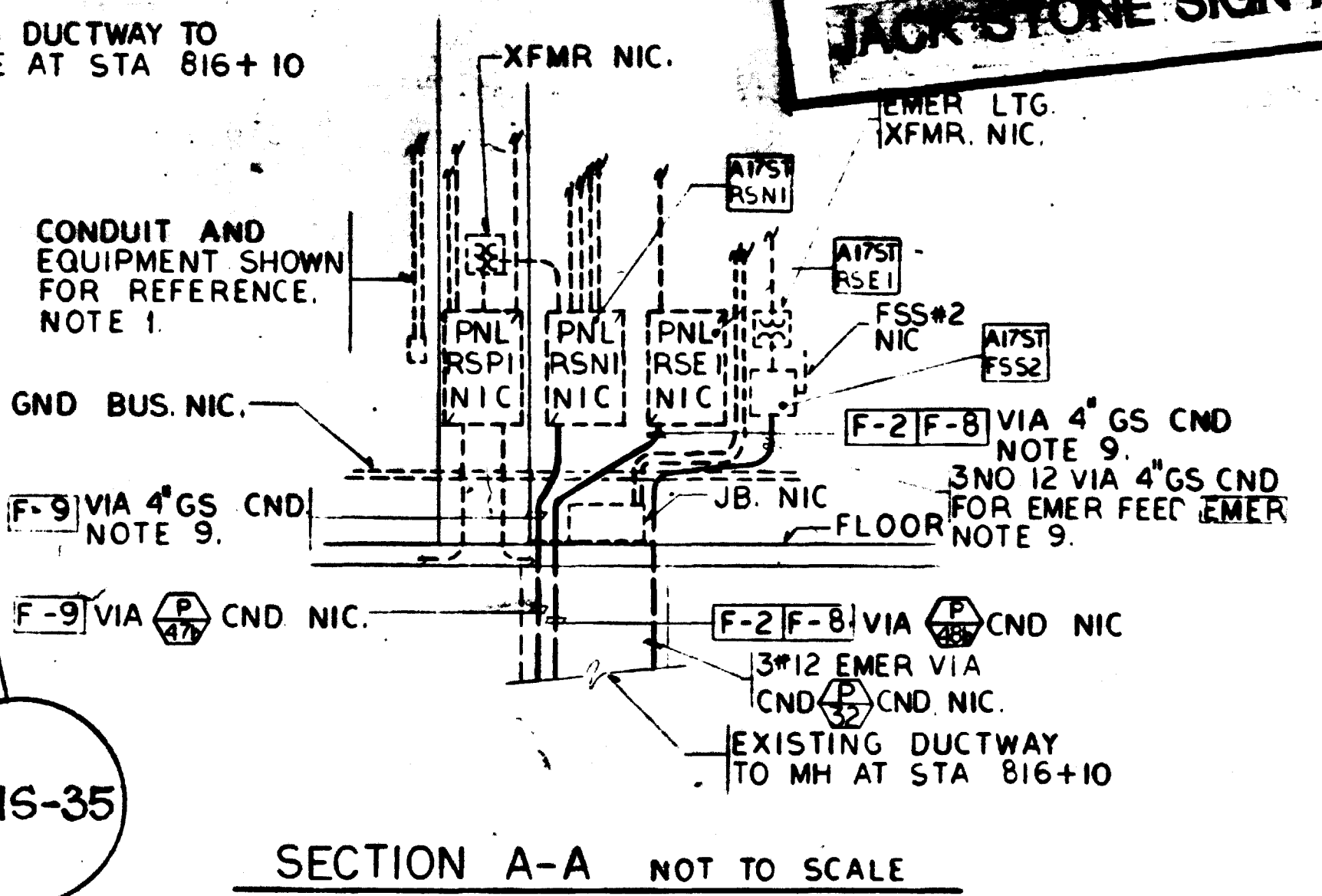
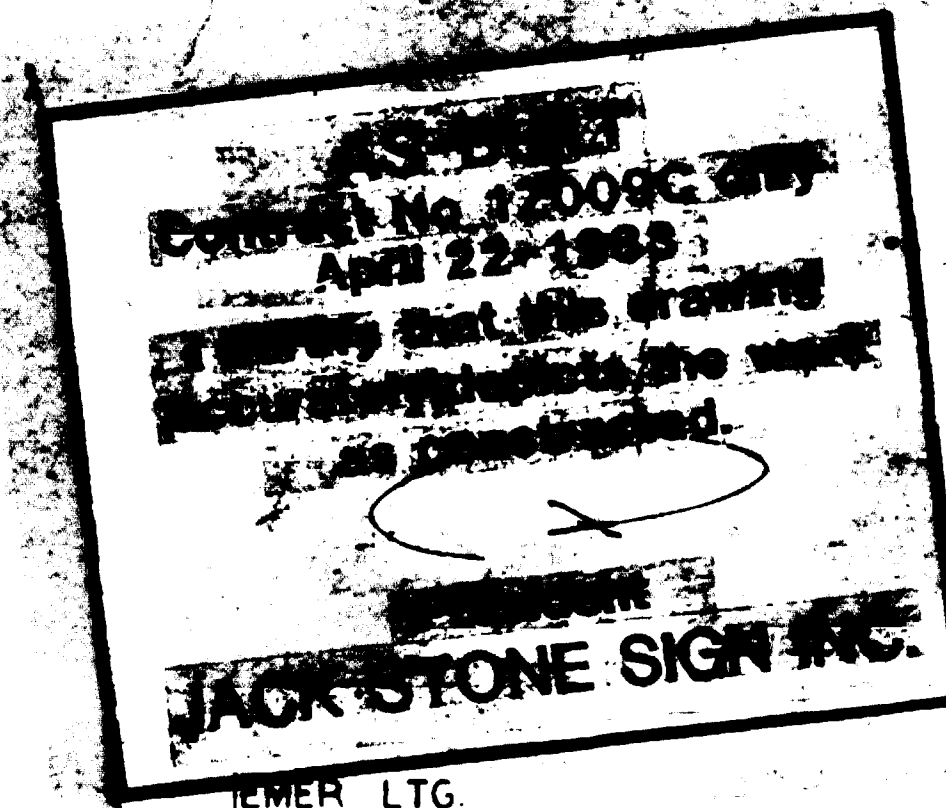


INTERFACE DETAILS - CONTRACT A15B E-9 STA 806+40.5



ETS SCHEMATIC NOT TO SCALE

- NOTES**
1. DUCTS AND CONDUITS LABELED EXISTING AND NIC ARE EMBEDDED ITEMS PROVIDED BY ADJOINING CONTRACTS.
 2. DASHED CONDUITS ARE EXISTING, EMBEDDED CONDUITS. SEE NOTE 1.
 3. FOR FURTHER INFORMATION ON ETS, SEE DWGS E-36, AND E-41.
 4. INSTALL CABLE SEALS AT ALL CONDUIT PENETRATIONS IN STRUCTURES IN WHICH CONDUCTORS ARE INSTALLED AT BOTH ENDS OF CONDUIT.
 5. CABLE SEAL IS TO BE CAPABLE OF PROVIDING A SEAL AROUND SINGLE AND MULTIPLE CONDUCTOR CABLES.
 6. CABLE SEAL IS TO BE CAPABLE OF WITHSTANDING A FLUID PRESSURE OF 100 PSIG.
 7. AT A15B INTERFACE, MANHOLE, DUCTS, CONDUITS, & PULL BOX ARE NIC. COORDINATE INSTALLATION WITH CONTRACT A15B.
 8. AT A15B INTERFACE, SPLICE CONDUCTORS IN EXISTING PULL BOX TO FEEDERS BY A15B CONTRACT. SEE E-36 FOR ADDITIONAL INFORMATION.
 9. AT A17ST INTERFACE, PROVIDE ADEQUATE PIGTAILS (24" MIN) INSIDE PNLs FOR CONNECTION BY OTHERS. PROVIDE RACEWAY BETWEEN PNLs AND EXIST DUCTWAY. SEE DWG. E-36 FOR ADDITIONAL INFORMATION.



SECTION A-A NOT TO SCALE

INTERFACE DETAILS - CONTRACT A17ST E-9: HUNGERFORD DRIVE TRACTION POWER SUBSTATION

FOR INFORMATION ONLY
USE THIS DRAWING TO LOCATE TUNNEL GRAPHICS PER CONTRACT 12009C ONLY

DESIGNED	GRW	10/78	REFERENCE DRAWINGS		REVISIONS			
			NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	
DRAWN	MAN	10/78						
CHECKED	ARP	9/79						
APPROVED	ARP	9/79						

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

RUMMEL, KLEPPER & KAHL — CONSULTING ENGINEERS
SECTION DESIGNERS

A R PEREZ & ASSOCIATES — CONSULTING ENGINEERS
ELECTRICAL CONSULTANT

DE LEUW, CATHER & COMPANY
GENERAL ENGINEERING CONSULTANT

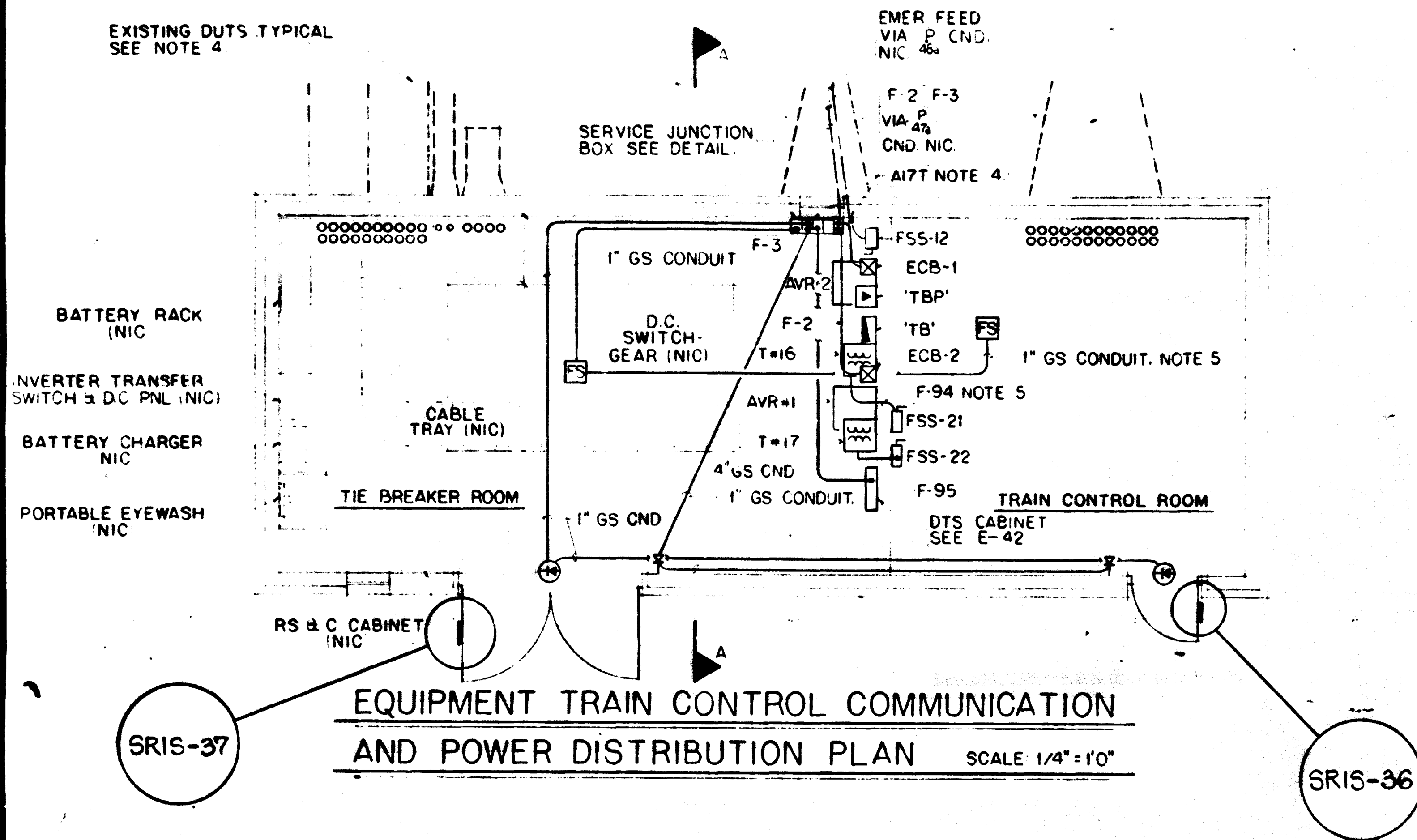
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

SUBMITTED

APPROVED

ROCKVILLE ROUTE	
DETAILS AND ETS SCHEMATIC	
SCALE	NONE
DRAWING NO.	FA17-E-34
	M523-94

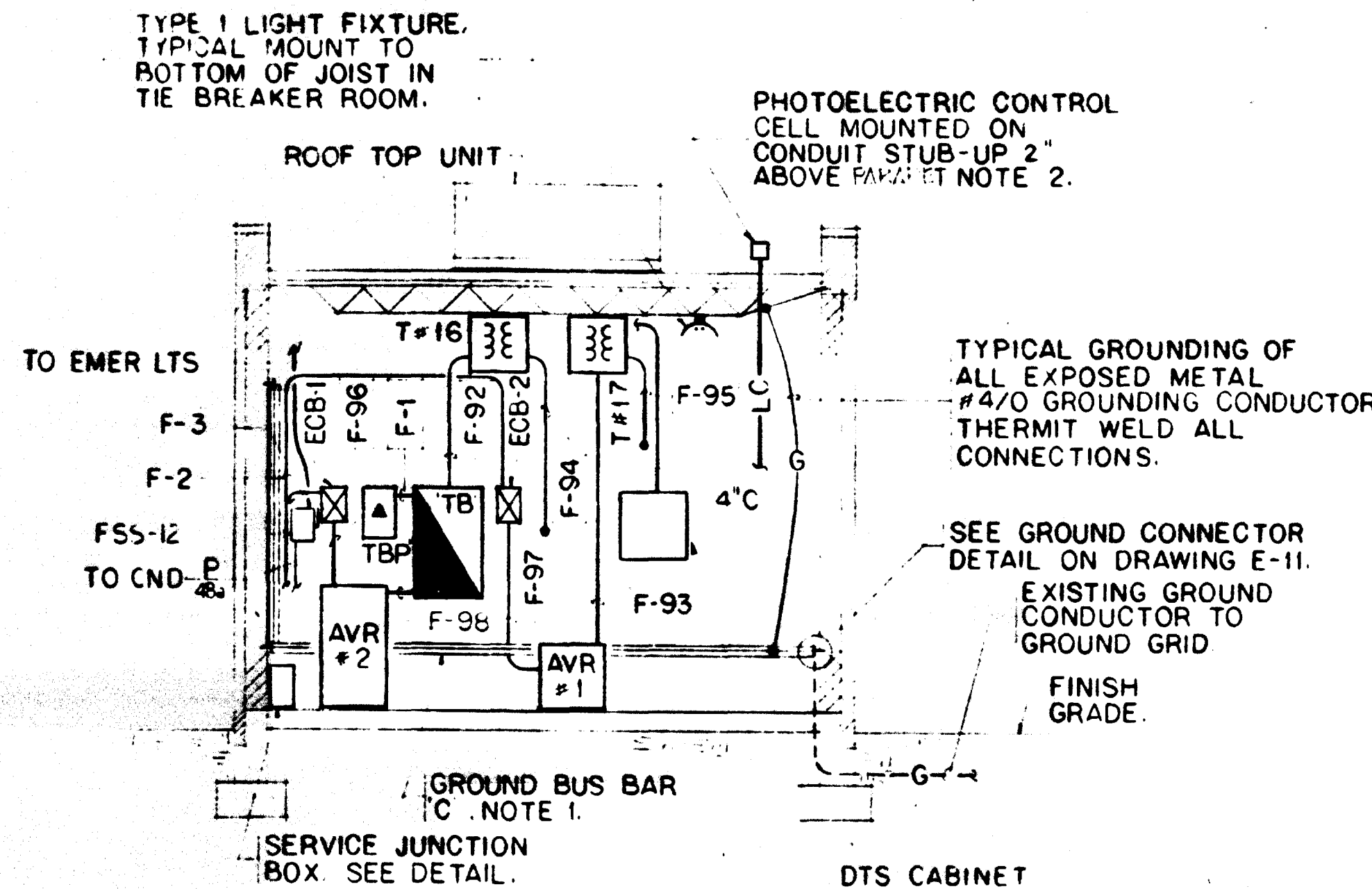
EXISTING DUCTS TYPICAL
SEE NOTE 4



**EQUIPMENT TRAIN CONTROL COMMUNICATION
AND POWER DISTRIBUTION PLAN**
SCALE 1/4" = 1'0"

NOTES

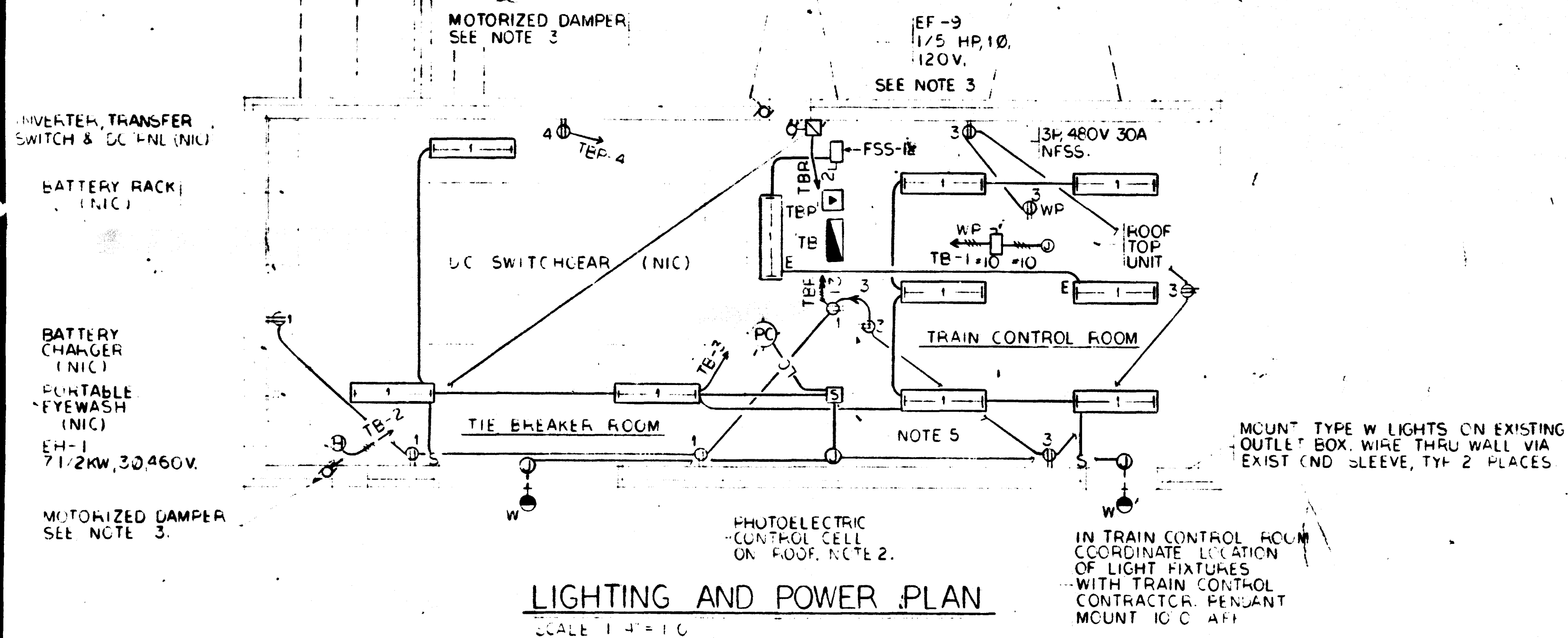
1. SEE DWGS E-11 & E-36 FOR GROUNDING SYSTEM. SEE DWG E-36 FOR A.C. POWER SCHEMATIC.
2. SEE DRAWING E-30 FOR LIGHTING CONTROL DIAGRAM.
3. PROVIDE ACROSS THE LINE STARTER (NEMA SIZE 0, 120 VOLT, 1 PHASE) WITH 3 NORMALLY OPEN AUXILIARY CONTACTS IN NEMA 12 ENCLOSURE. CONTROL CONTRACTOR TO OBTAIN POWER SUPPLY FOR DAMPERS BY CONNECTING TO LINE SIDE OF STARTER, SEE MECHANICAL DRAWINGS.
4. STRUCTURE AND EMBEDDED DUCTS ARE EXISTING. ITEMS PROVIDED BY A17 AND A17T CONTRACTS.
5. FOR CONDUIT PENETRATIONS THRU EXISTING WALLS, DRILL AND PATCH AS REQUIRED AND SPECIFIED.



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

JACK STONE SIGN INC.
President
as constructed
I certify that this drawing
accurately depicts the work
April 22-1983
Contract No 12009C only
AS-BUILT

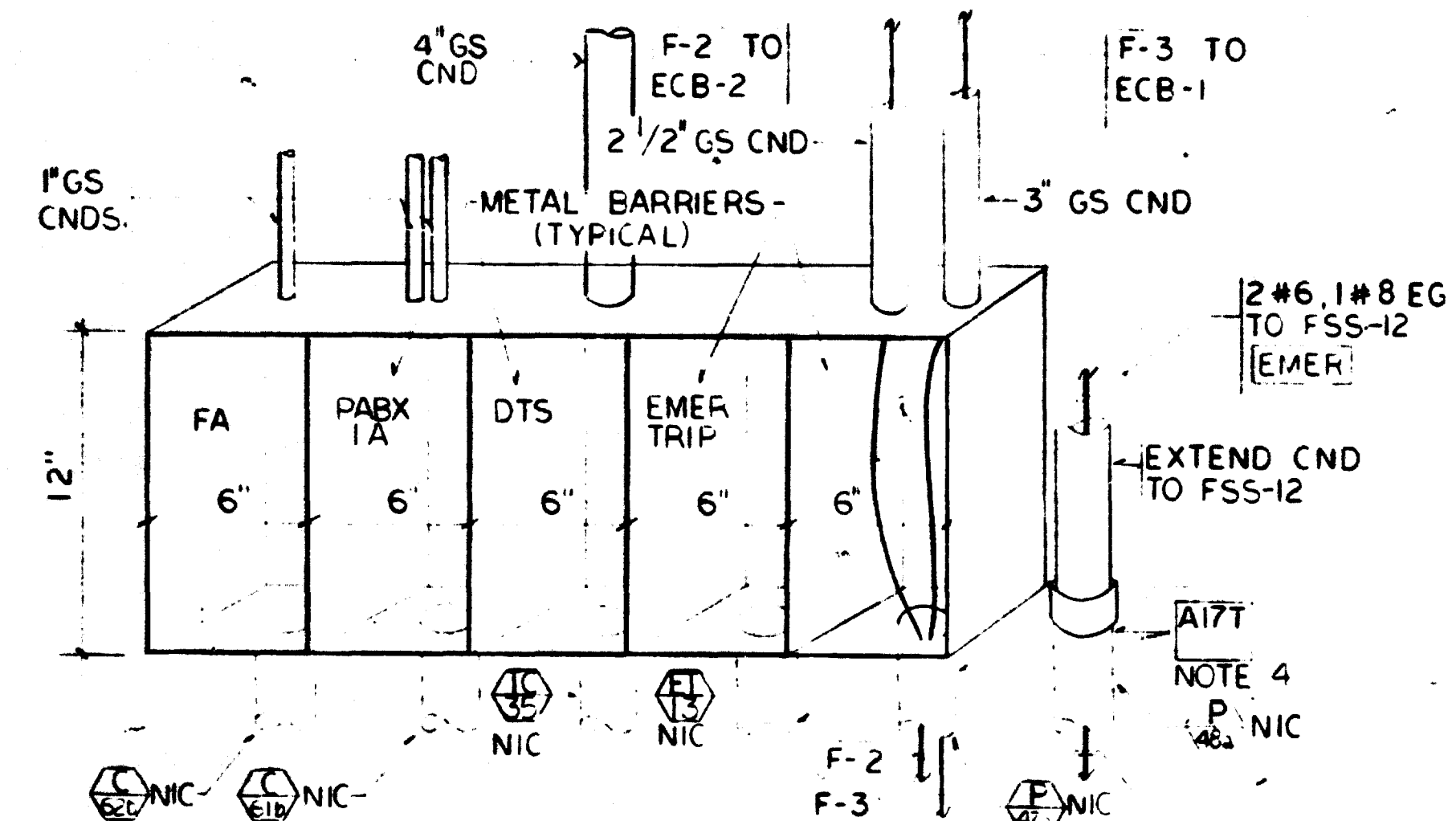
EXISTING DUCTS, TYPICAL
SEE NOTE 4.



LIGHTING AND POWER PLAN
SCALE 1/4" = 1'0"

MOUNT TYPE W LIGHTS ON EXISTING
OUTLET BOX. WIRE THRU WALL VIA
EXIST CONDUIT SLEEVE, TYP 2 PLACES

IN TRAIN CONTROL ROOM
COORDINATE LOCATION
OF LIGHT FIXTURES
WITH TRAIN CONTROL
CONTRACTOR. PENDANT
MOUNT TO C. AFF.



FOR INFORMATION ONLY
USE THIS DRAWING TO LOCATE TUNNEL
GRAPHICS PER CONTRACT 12009C ONLY

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
GRW	11/73				
MAN/SA	11/73				
ARP	11/73				
ARP	11/73				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

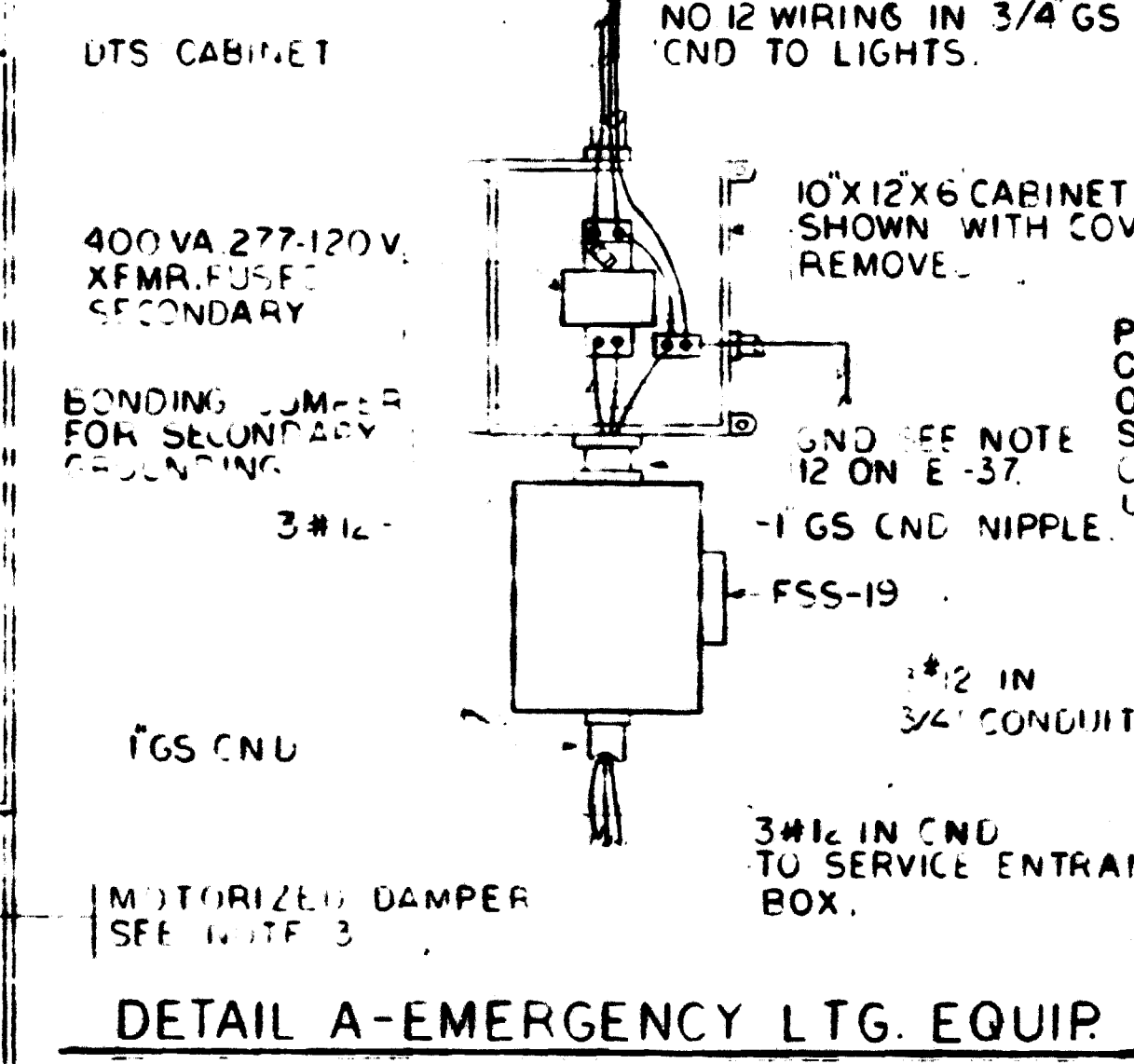
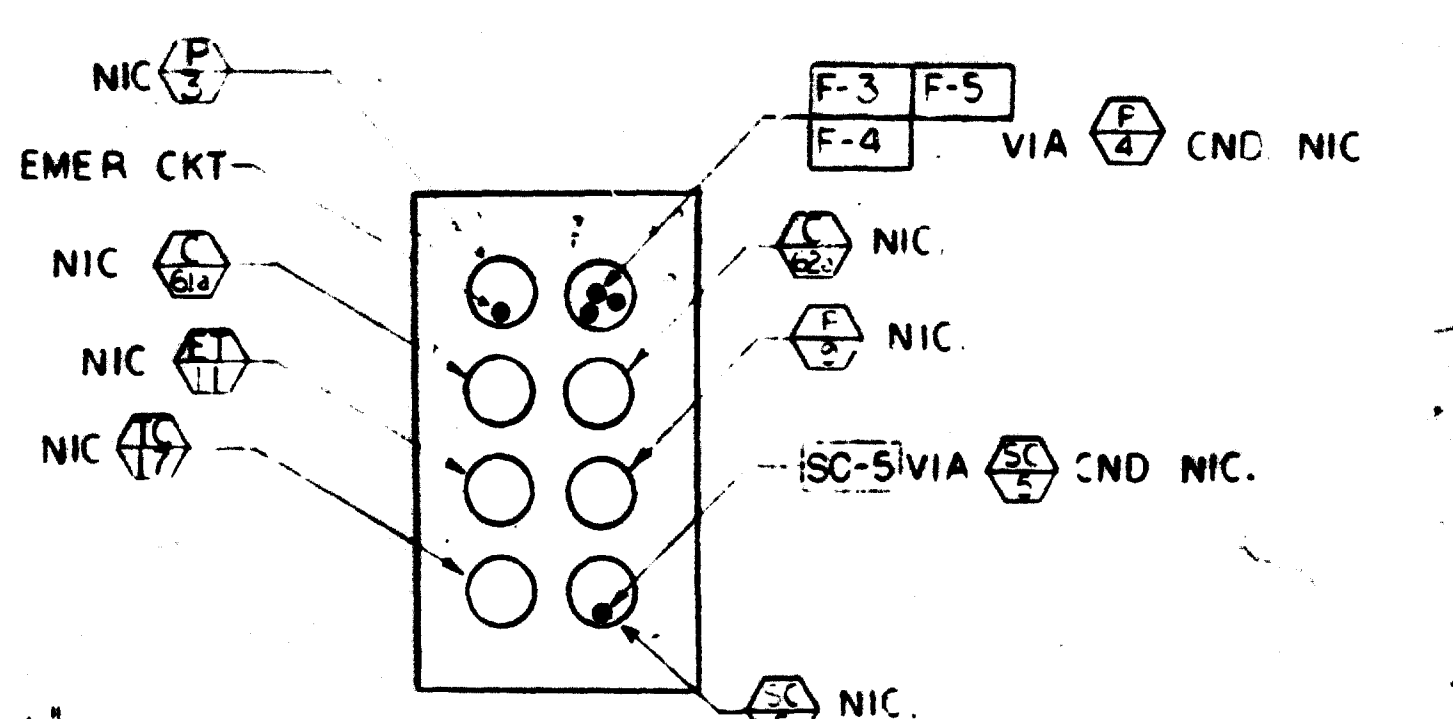
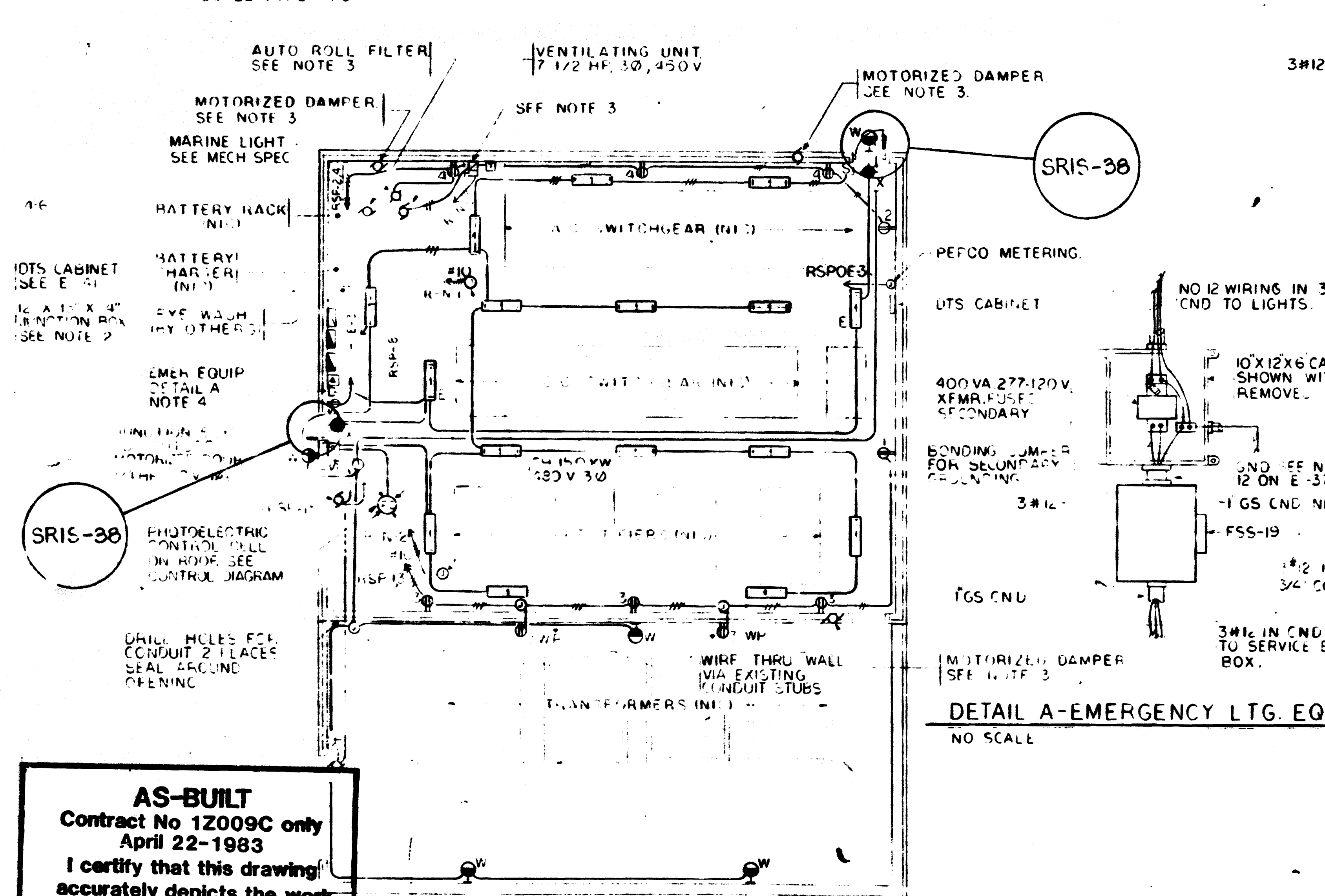
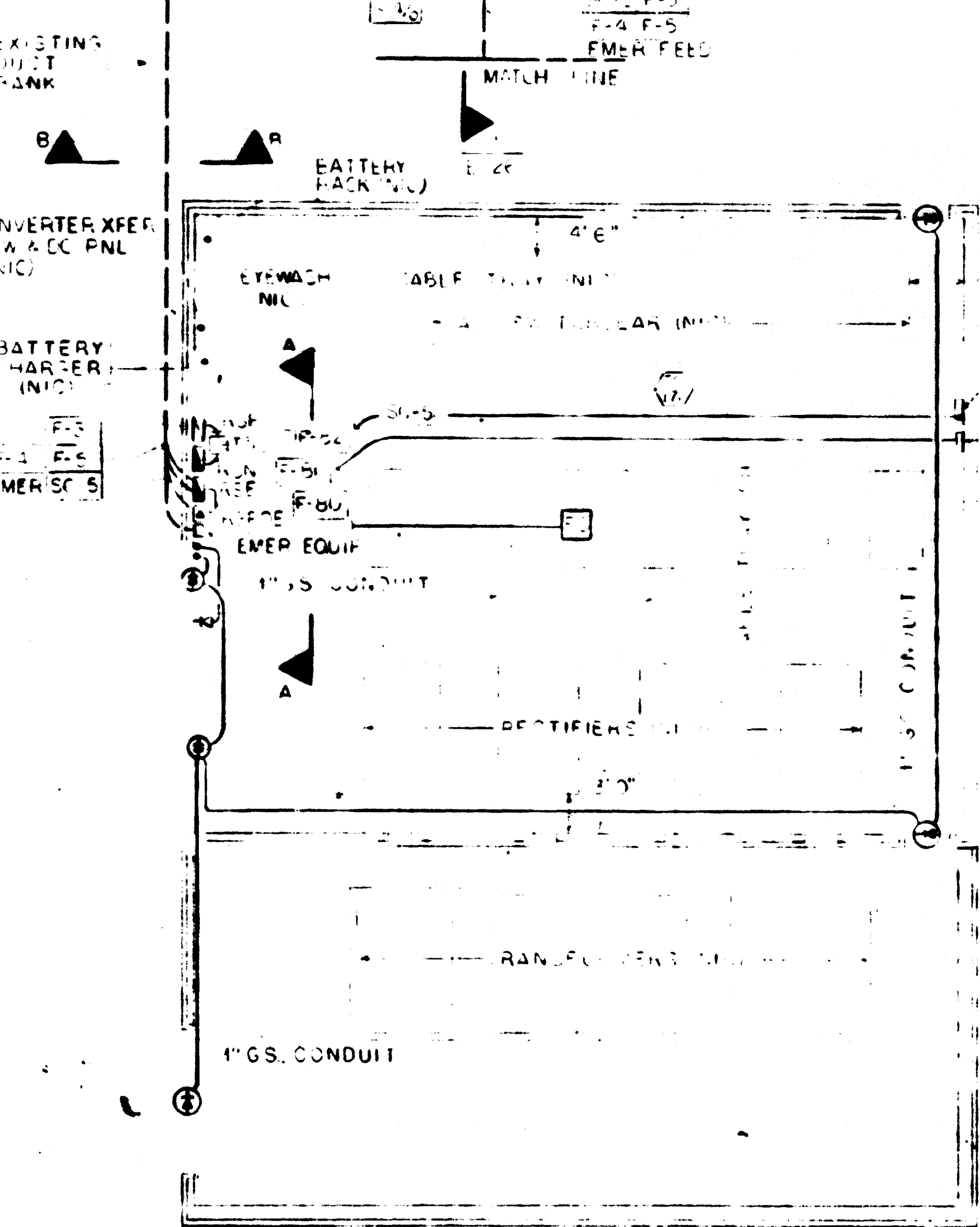
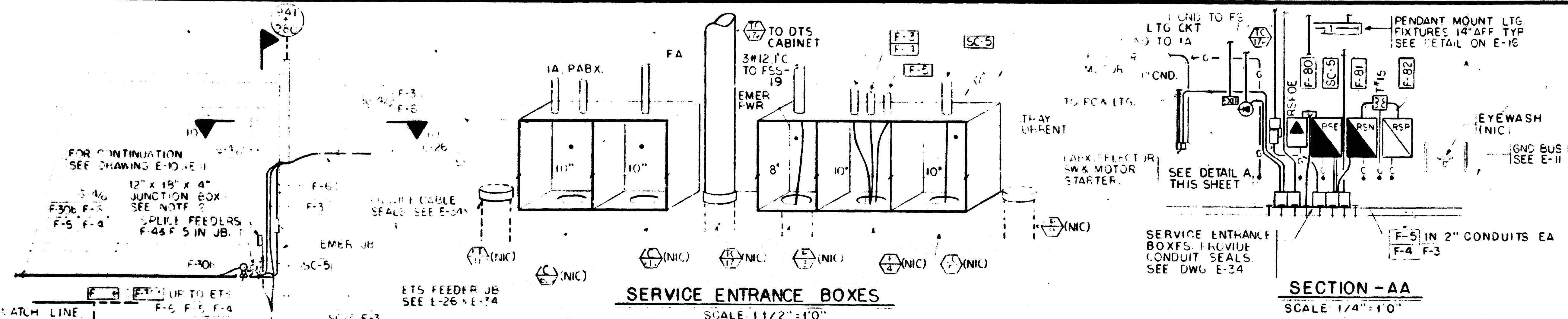
RUMMEL, KLEPPER & KAHL—CONSULTING ENGINEERS
SECTION DESIGNERS
A. R. PEREZ & ASSOCIATES—CONSULTING ENGINEERS
ELECTRICAL CONSULTANT

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

ROCKVILLE ROUTE
HUNGERFORD DRIVE
TIE BREAKER STATION

NOTES

- SEE DRAWING E-11 FOR GROUNDING SYSTEM AND DETAILS.
- TAG AND COIL 20' (MINIMUM) 1C-250 MCM CLAS 6 STRANDED BARE CONDUCTOR IN JUNCTION BOX
- NON-REVERSING 3Ø, 480V. STARTER NEMA SIZE 1 WITH CONTROL TRANSFORMER (480V. 1Ø FUSED PRIMARY 120V SECONDARY) WITH 3 NORMALLY OPEN AUXILIARY CONTACTS IN NEMA 1 ENCLOSURE (TRANSFORMER VOLT-AMPERES TO BE DETERMINED BY ELECTRICAL CONTRACTOR TO INCLUDE LIGHT MOTORIZED DAMPERS, FILTER) CONNECT TO LOAD SIDE OF DISCONNECT SWITCH. SEE MECHANICAL DWG. M-14 FOR ADDITIONAL INFORMATION.
- FOR EMERGENCY LIGHTS INSTALL CABINET, XFMR, FSS #19 AS INDICATED IN DETAIL A. INSTALL TYPE 1 LIGHTS WITH 120V. BALLAST.
- CONDUITS LABELED NIC ARE EXISTING EMBEDDED CONDUITS PROVIDED BY A17 CONTRACT.



AS-BUILT
Contract No 12009C only
April 22-1983
I certify that this drawing accurately depicts the work as constructed.
President
JACK STONE SIGN INC.

FOR INFORMATION ONLY
USE THIS DRAWING TO LOCATE TUNNEL GRAPHICS PER CONTRACT 12009C ONLY

KEY PLAN SCALE 1" = 200'

DESIGNED	GRW	2/77	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	MAN	2/77	E-11	FLOURESCENT FIXTURES, SERVICE PM		
CHECKED	ARP	10/73				
APPROVED	ARP	10/73				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

RUMMEL, KLEPPER & KAHL -- CONSULTING ENGINEERS
SECTION DESIGNERS

A R PEREZ & ASSOCIATES -- CONSULTING ENGINEERS
ELECTRICAL CONSULTANT

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT

HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

APPROVED

ROCKVILLE ROUTE
SHADY GROVE
TRACTION POWER SUBSTATION

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

DRAWING NO. FA17-E-30 M529-96