

GENERAL NOTES

- MATERIALS AND CONSTRUCTION**
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF $f'c = 4,000$ PSI AT 28 DAYS.
 - ALL REINFORCING BARS SHALL CONFORM TO THE SPECIFICATION FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A615, GRADE 60.
 - CONCRETE AGGREGATE SHALL HAVE A MAXIMUM SIZE OF 1 INCH.
 - ALL REINFORCING BARS SHALL BE CONTINUOUS IN ANY ONE DIRECTION EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS.
 - EXCEPT AS NOTED, ALL CONCRETE CONSTRUCTION AND DETAILING SHALL CONFORM TO THE LATEST STANDARDS OF THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315), AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318).
 - EXCEPT FOR WELDED WIRE FABRIC, NO WELDING OF REINFORCING BARS SHALL BE PERMITTED UNLESS INDICATED ON DRAWINGS.
 - ALL STRUCTURAL STEEL, METAL DOORS, EQUIPMENT, ETC. SHALL BE CONNECTED TO GROUND BUSES WITH #2 COPPER GROUND CABLE.
 - STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL CARBON STEEL, ASTM DESIGNATION A36.
 - ALL STRUCTURAL STEEL PLATES SHALL CONFORM TO THE SPECIFICATION FOR HOT-ROLLED CARBON STEEL SHEET AND STRIP, STRUCTURAL QUALITY, ASTM DESIGNATION A570.
 - METAL ROOFING, SIDING, AND FLASHINGS SHALL CONFORM TO THE SPECIFICATION FOR THE DESIGN OF LIGHT GAUGE COLD-FORMED STRUCTURAL STEEL MEMBERS, LATEST EDITION.
 - FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
 - WELDING FOR STRUCTURAL STEEL SHALL CONFORM TO THE STRUCTURAL WELDING CODE, AWS D1.1, LATEST EDITION.
 - BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE SPECIFICATION FOR LOW CARBON STEEL THREADED STANDARD FASTENERS, ASTM DESIGNATION A307, GRADE A, AND HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS, ASTM DESIGNATION A325. ALL BOLTS SHALL HAVE THREADS EXCLUDED FROM THE SHEAR PLANE.
 - ALL STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH THE PROCEDURES GIVEN IN NOTES ON SHEET 8-9.
 - TOP 12 INCHES OF SUBGRADE SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY, AND EARTH ABOVE STRUCTURE SHALL BE COMPACTED TO 85% OF MAXIMUM DENSITY, EACH IN ACCORDANCE WITH ASTM STANDARD D1557.
 - UNLESS NOTED ON DRAWINGS, SPLICE LENGTH OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 (LATEST EDITION) FOR CLASS C SPLICES.
 - FOR FILLET WELD SIZES NOT SHOWN ON DRAWINGS, PROVIDE MINIMUM SIZE FILLET WELDS IN ACCORDANCE WITH WELDING CODE AWS D1.1, LATEST EDITION.
 - UNLESS SHOWN OTHERWISE, ALL REINFORCING BAR HOOKS SHALL BE STANDARD HOOKS IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318, LATEST EDITION.
19. SECTION TAKEN ON THIS SHEET NO. 1/51/53 SECTION OR ELEV. MARKS ON THIS SHEET NO. 3/51/52 ELEV. SHOWN ON THIS SH. NO. ELEV. TAKEN ON THIS SH. NO.

SOIL DATA

A. ASSUMED SOIL BEARING PRESSURE	- 4,000 PSF
B. ASSUMED DYNAMIC RESPONSE FACTOR (SOIL BEARING)	- 2.5
C. ASSUMED LATERAL SOIL PRESSURE COEF.:	
MAGAZINE WALLS	- 0.5
WING WALLS	- 0.3
D. ASSUMED COEF. OF FRICTION (CONC. ON SOIL)	- 0.50

DESIGN LOADS

STATIC LOADS:

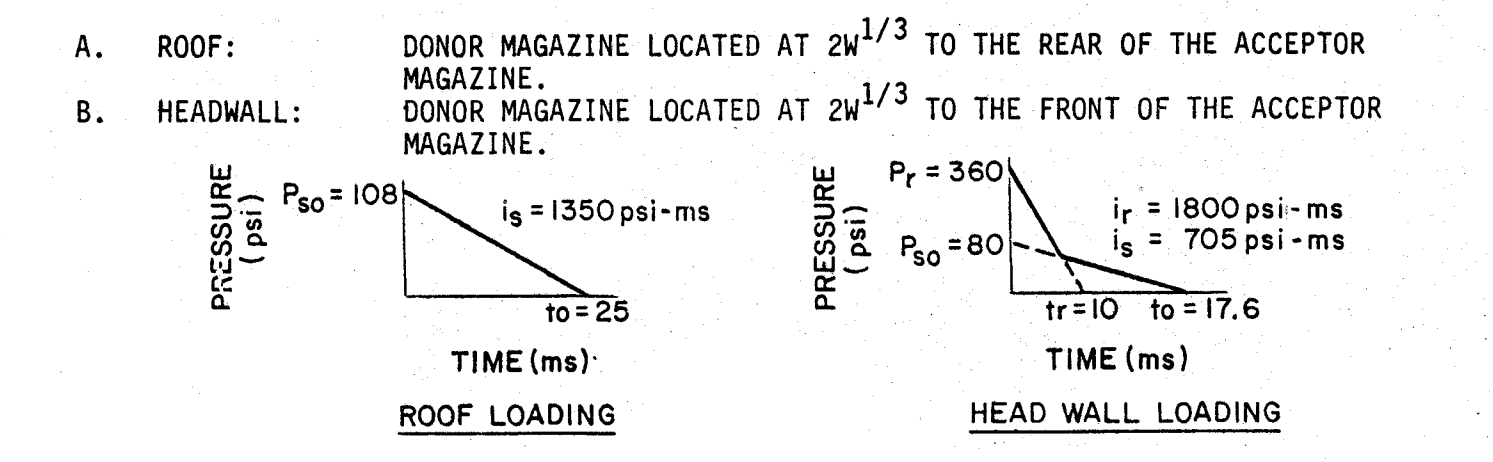
A. ROOF DEAD LOAD (1/2 FT. EARTH FILL + 6" GRAVEL)	- 200 PSF
B. FLOOR LIVE LOAD	- 2,000 PSF
C. PLATFORM AND RAMP LIVE LOAD	- 1,000 PSF
D. ROOF LIVE LOAD	- 100 PSF

SEISMIC LOAD:

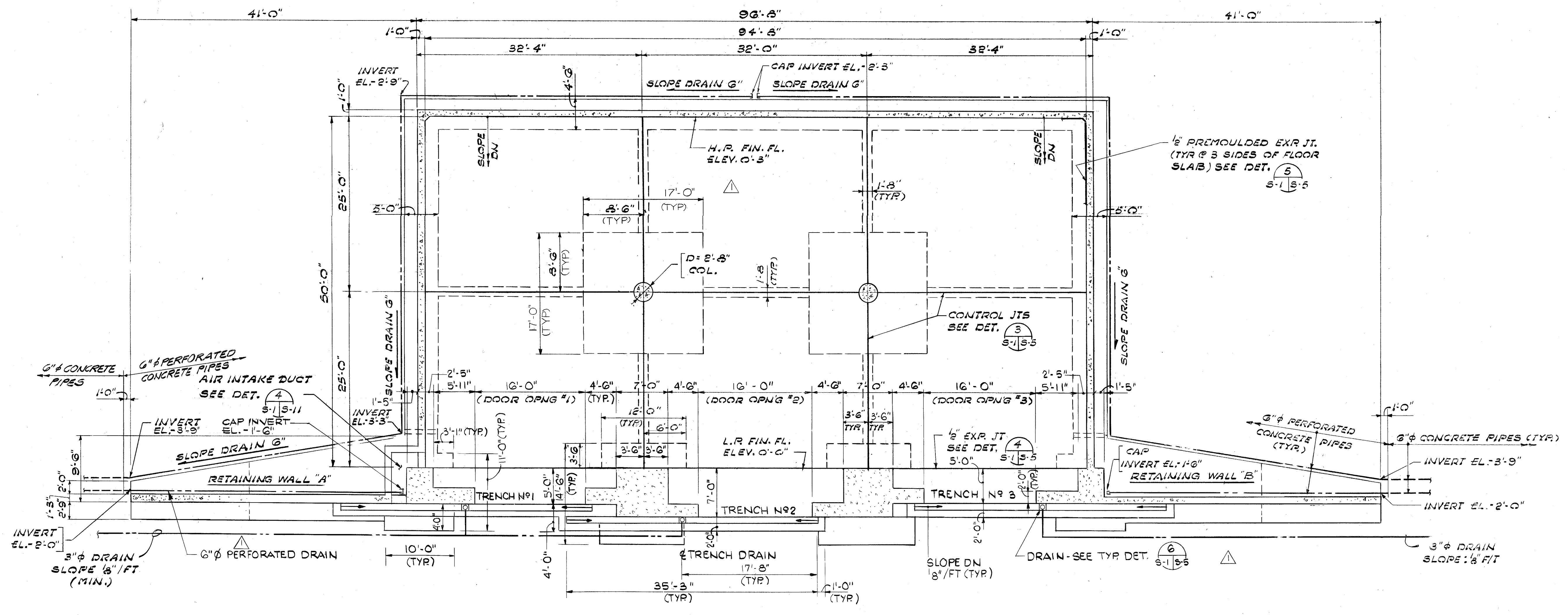
ADEQUATE FOR SEISMIC LOADS INDUCED BY EARTHQUAKE MOTIONS UP TO ZONE 4.

BLAST LOAD:

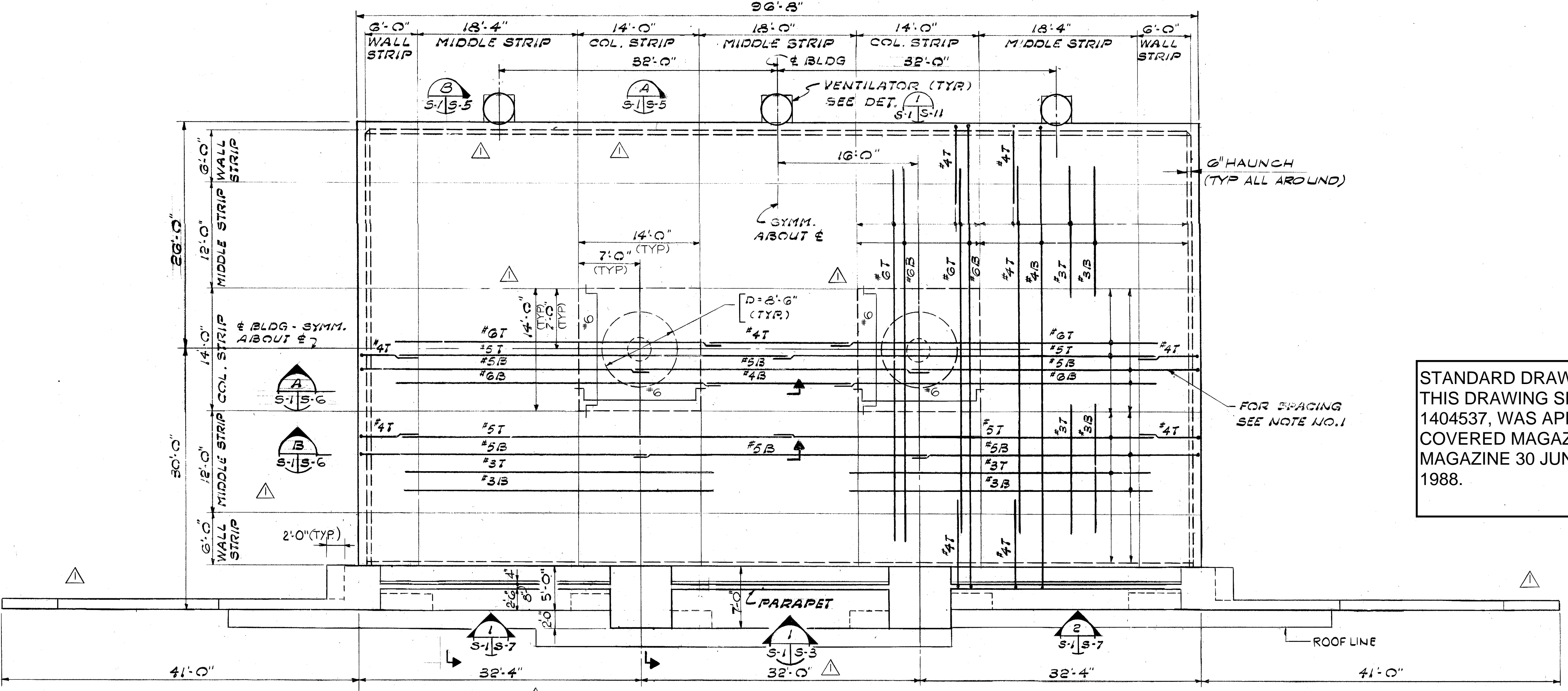
BASED ON INTERMAGAZINE SEPARATION DISTANCES FOR A QUANTITY (W) OF H.E. EQUAL TO 350,000 LBS AS FOLLOWS:



STANDARD DRAWING NOTE:
THIS DRAWING SET, NAVFAC DRAWINGS 14404523 THRU 14404537, WAS APPROVED AS THE STANDARD 7-BAR EARTH COVERED MAGAZINE DESIGN FOR THE TYPE E BOX MAGAZINE 30 JUNE 1987 WITH REVISIONS DATED 9 JUNE 1988.



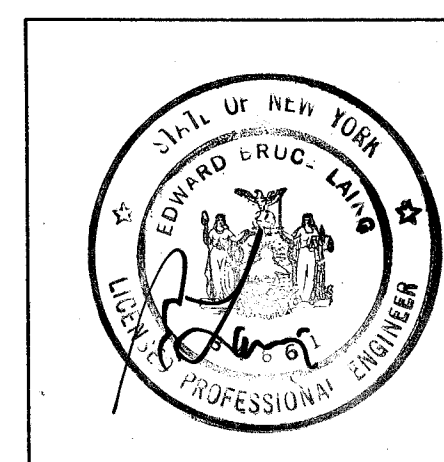
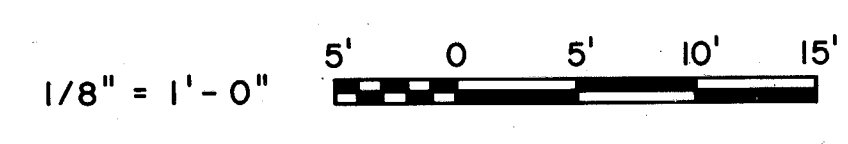
FLOOR PLAN
SCALE: 1/8" = 1'-0"



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

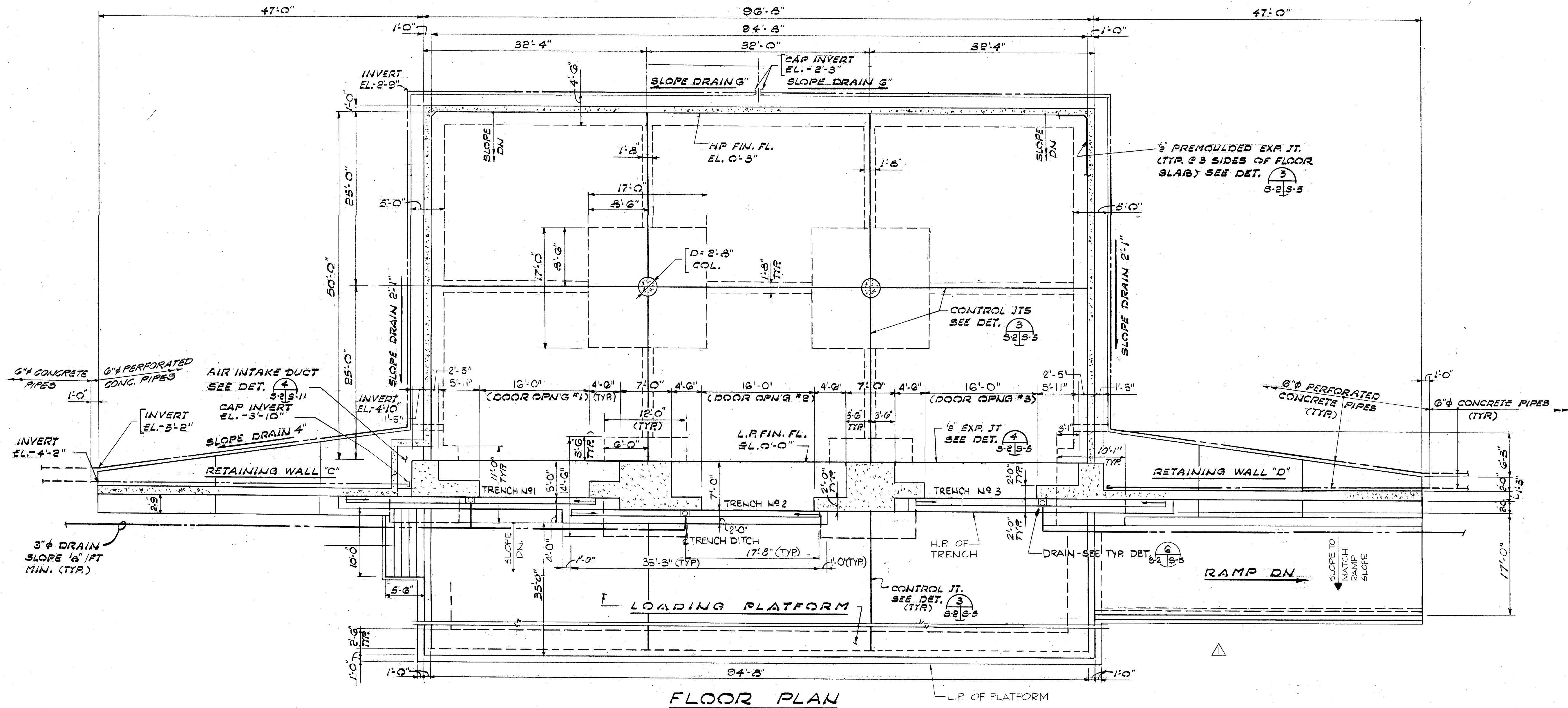
- NOTES:**
- ALL REINF. BARS SHALL BE SPACED @ 10" O.C. UNLESS NOTED OTHERWISE.
 - THE FOLLOWING ELEVATION, SECTIONS AND DETAILS SHALL BE USED FOR MAGAZINE WITH LOADING PLATFORM ONLY.
 - THE FOLLOWING ELEVATION & SECTIONS SHALL BE USED FOR MAGAZINE WITHOUT LOADING PLATFORM ONLY.
 - ALL OTHER ELEVATIONS, PLANS, SECTIONS AND DETAILS SHALL BE USED FOR MAGAZINE WITH OR WITHOUT LOADING PLATFORM UNLESS NOTED OTHERWISE.
- ELEVATIONS** 1/51/53, 2/51/53, 3/51/53, 4/51/53, 5/51/53, 6/51/53, 7/51/53, 8/51/53, 9/51/53, 10/51/53, 11/51/53, 12/51/53, 13/51/53, 14/51/53, 15/51/53, 16/51/53, 17/51/53, 18/51/53, 19/51/53, 20/51/53, 21/51/53, 22/51/53, 23/51/53, 24/51/53, 25/51/53, 26/51/53, 27/51/53, 28/51/53, 29/51/53, 30/51/53, 31/51/53, 32/51/53, 33/51/53, 34/51/53, 35/51/53, 36/51/53, 37/51/53, 38/51/53, 39/51/53, 40/51/53, 41/51/53, 42/51/53, 43/51/53, 44/51/53, 45/51/53, 46/51/53, 47/51/53, 48/51/53, 49/51/53, 50/51/53, 51/51/53, 52/51/53, 53/51/53, 54/51/53, 55/51/53, 56/51/53, 57/51/53, 58/51/53, 59/51/53, 60/51/53, 61/51/53, 62/51/53, 63/51/53, 64/51/53, 65/51/53, 66/51/53, 67/51/53, 68/51/53, 69/51/53, 70/51/53, 71/51/53, 72/51/53, 73/51/53, 74/51/53, 75/51/53, 76/51/53, 77/51/53, 78/51/53, 79/51/53, 80/51/53, 81/51/53, 82/51/53, 83/51/53, 84/51/53, 85/51/53, 86/51/53, 87/51/53, 88/51/53, 89/51/53, 90/51/53, 91/51/53, 92/51/53, 93/51/53, 94/51/53, 95/51/53, 96/51/53, 97/51/53, 98/51/53, 99/51/53, 100/51/53
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- DETAILS** 1/51/53, 2/51/53, 3/51/53, 4/51/53, 5/51/53, 6/51/53, 7/51/53, 8/51/53, 9/51/53, 10/51/53, 11/51/53, 12/51/53, 13/51/53, 14/51/53, 15/51/53, 16/51/53, 17/51/53, 18/51/53, 19/51/53, 20/51/53, 21/51/53, 22/51/53, 23/51/53, 24/51/53, 25/51/53, 26/51/53, 27/51/53, 28/51/53, 29/51/53, 30/51/53, 31/51/53, 32/51/53, 33/51/53, 34/51/53, 35/51/53, 36/51/53, 37/51/53, 38/51/53, 39/51/53, 40/51/53, 41/51/53, 42/51/53, 43/51/53, 44/51/53, 45/51/53, 46/51/53, 47/51/53, 48/51/53, 49/51/53, 50/51/53, 51/51/53, 52/51/53, 53/51/53, 54/51/53, 55/51/53, 56/51/53, 57/51/53, 58/51/53, 59/51/53, 60/51/53, 61/51/53, 62/51/53, 63/51/53, 64/51/53, 65/51/53, 66/51/53, 67/51/53, 68/51/53, 69/51/53, 70/51/53, 71/51/53, 72/51/53, 73/51/53, 74/51/53, 75/51/53, 76/51/53, 77/51/53, 78/51/53, 79/51/53, 80/51/53, 81/51/53, 82/51/53, 83/51/53, 84/51/53, 85/51/53, 86/51/53, 87/51/53, 88/51/53, 89/51/53, 90/51/53, 91/51/53, 92/51/53, 93/51/53, 94/51/53, 95/51/53, 96/51/53, 97/51/53, 98/51/53, 99/51/53, 100/51/53
5. FLOOR SLAB IN CHECKERBOARD PATTERN. (APPROX. SLAB DIM. 25' x 32')
6. GROUND COVER SHALL BE DETERMINED BY GENERAL SITE FILL MATERIAL AND CLIMATIC CONDITIONS. (GROUND COVER MUST BE MAINTAINED AT MAXIMUM 6" HEIGHT.)
7. IF THE DEPTH OF FOOTINGS (SIDEWALLS, BACKWALL, COLUMNS, PLATES & GRADE BEAMS) HAVE TO BE INCREASED EITHER BECAUSE OF THE DEPTH OF FROST OR TO OBTAIN SUITABLE SOIL BEARING CAPACITY AS SPECIFIED, THE VOLUME OF SOIL BETWEEN THE DEPTH OF THE FOOTING SHOWN ON THE DRAWINGS AND THE DEPTH REQUIRED SHALL BE REPLACED WITH CONCRETE. RETAINING WALLS, WHOSE FOOTING DEPTH MUST BE INCREASED FOR FROST SHALL BE REDESIGNED. IF THE SOIL BEARING CAPACITY IS LESS THAN THAT SPECIFIED THEN THE RETAINING WALL FOOTINGS MUST BE REDESIGNED.

IF THE DRAWING IS A REDUCTION, GRAPHIC SCALE MUST BE USED

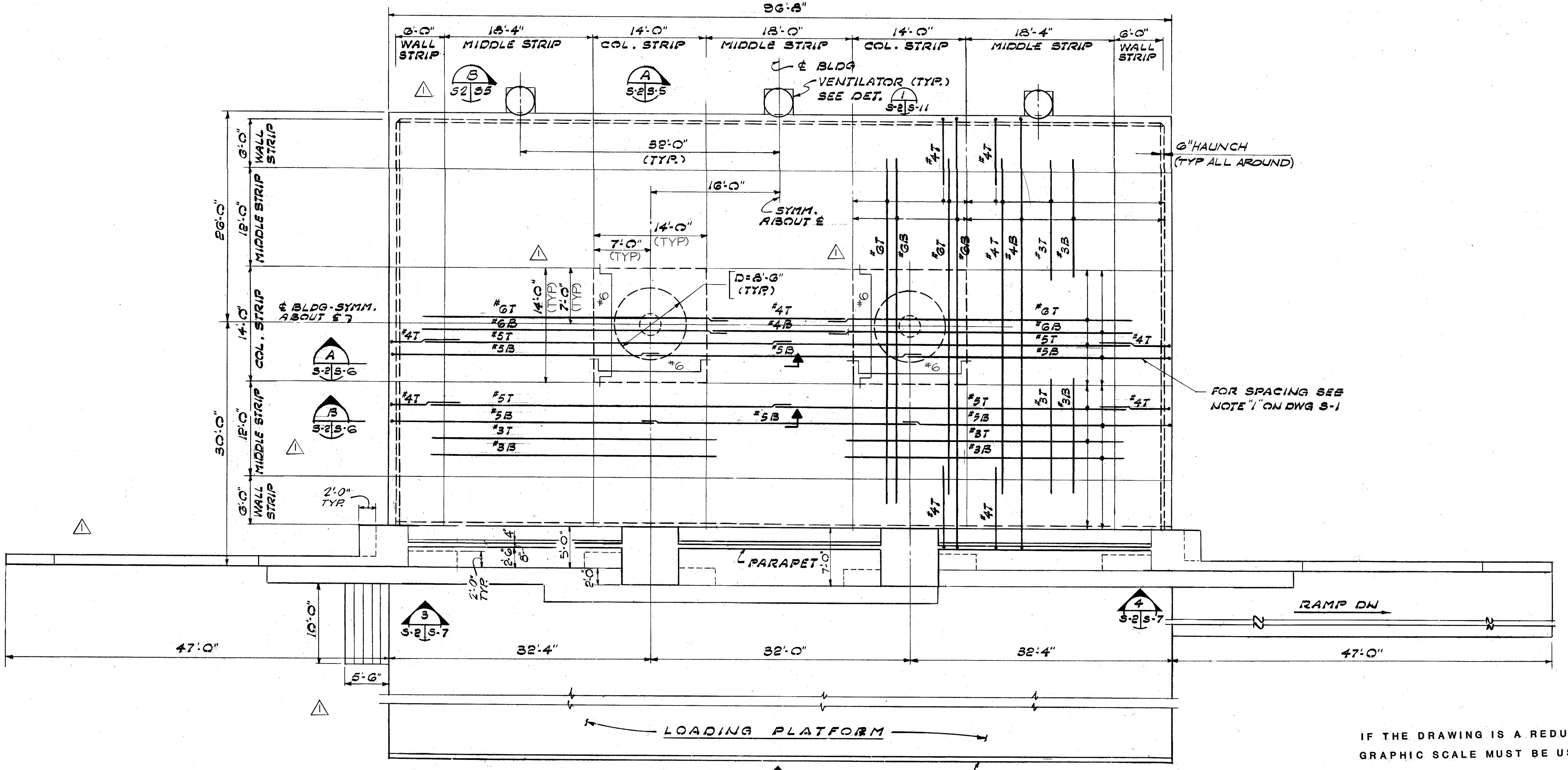


REVISIONS		DEPARTMENT OF THE NAVY		WASHINGTON, D.C. 20380	
SYMBOL	DESCRIPTION	PREPARED BY	DATE	APPROVED BY	ND
REVISIONS					
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST. N.Y., N.Y.		NAVAL FACILITIES ENGINEERING COMMAND			
E. LAING PRINCIPAL DATE: 4-23-87		STANDARD DRAWING			
NAVFACENCOM		BOX MAGAZINE TYPE E			
FLOOR PLAN & ROOF PLAN		(WITHOUT EXTERIOR PLATFORM)			
SIZE	CODE IDENT NO.	NAVFAC DRAWING NUMBER	1404523		
F	80091	SCALE AS NOTED	CONTRACT NO.	S-I	
CATEGORY CODE	421	SPEC NO.	NFSS-M44	SHEET 1 OF 15	

NOTE!
FOR GENERAL NOTES, SEE NAVFAC DWG. NO. 1404523

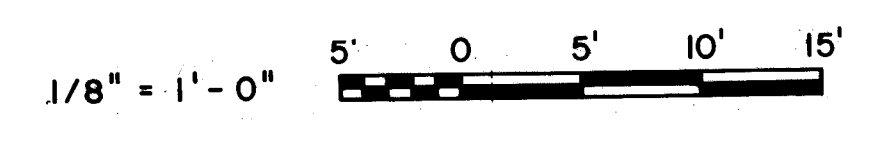


FLOOR PLAN
SCALE: 1/8" = 1'-0"



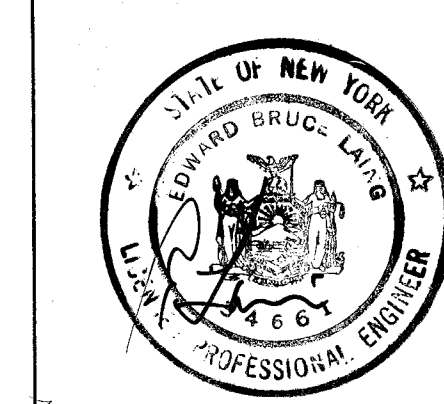
ROOF PLAN
SCALE: 1/8" = 1'-0"

IF THE DRAWING IS A REDUCTION,
GRAPHIC SCALE MUST BE USED

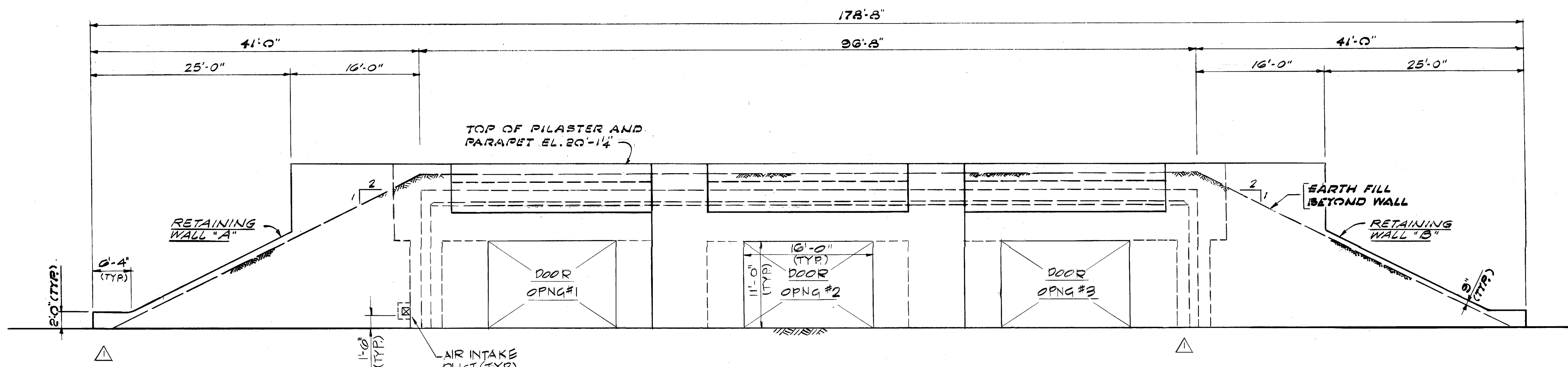


REVISIONS		PREPARED BY	DATE	APPROVED BY
REIN.		RA	6-9-88	ND

AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST. N.Y., N.Y.		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20380	
NAVAL FACILITIES ENGINEERING COMMAND			
STANDARD DRAWING			
BOX MAGAZINE TYPE E			
FLOOR PLAN & ROOF PLAN			
(WITH EXTERIOR PLATFORM)			
DATE	SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER
4-15-87	F	80091	1404524
SCALE AS NOTED		CONTRACT NO	SHEET 2
CATEGORY CODE 421		SPEC NO NFSS-M44	OF 15

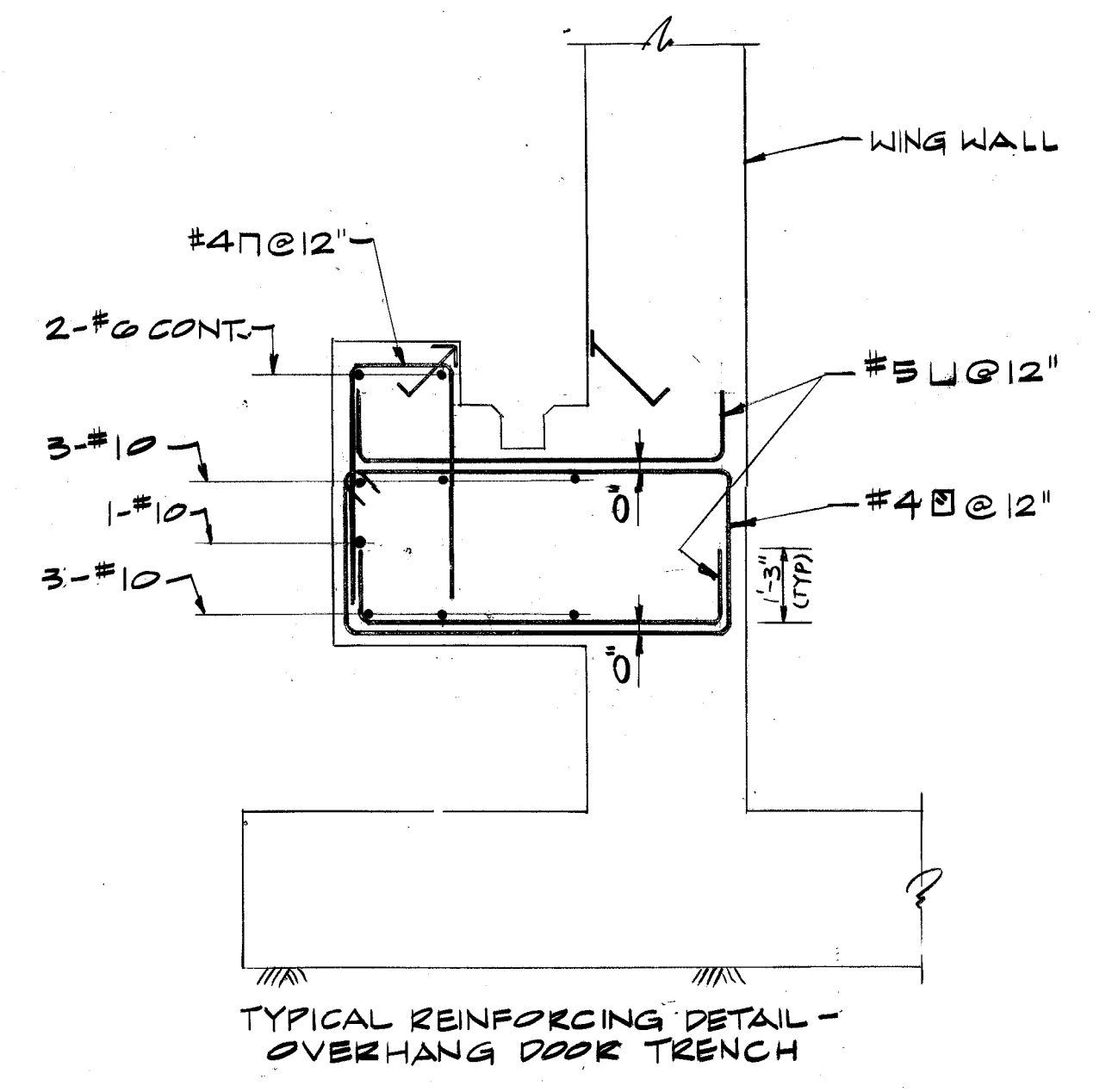


DATE 6/30/87
BY [Signature]

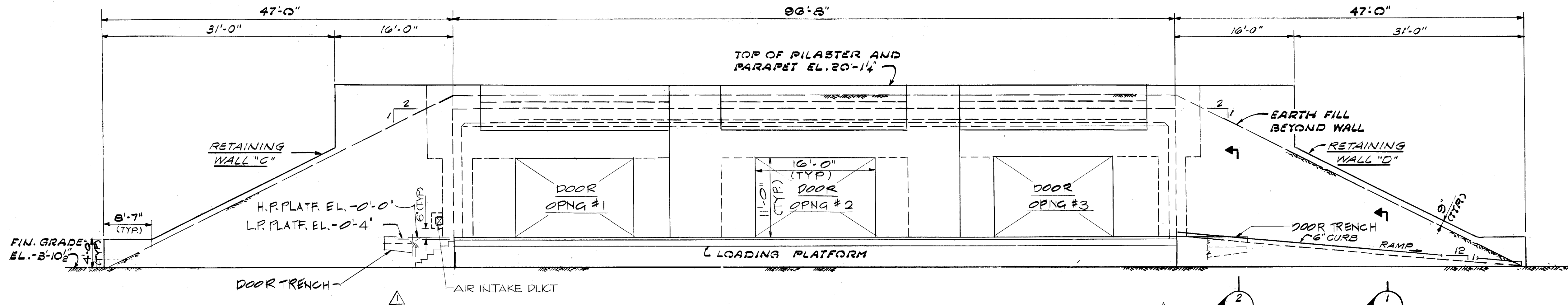


ELEVATION 1
SCALE: 1/8" = 1'-0"
S-4 S-3

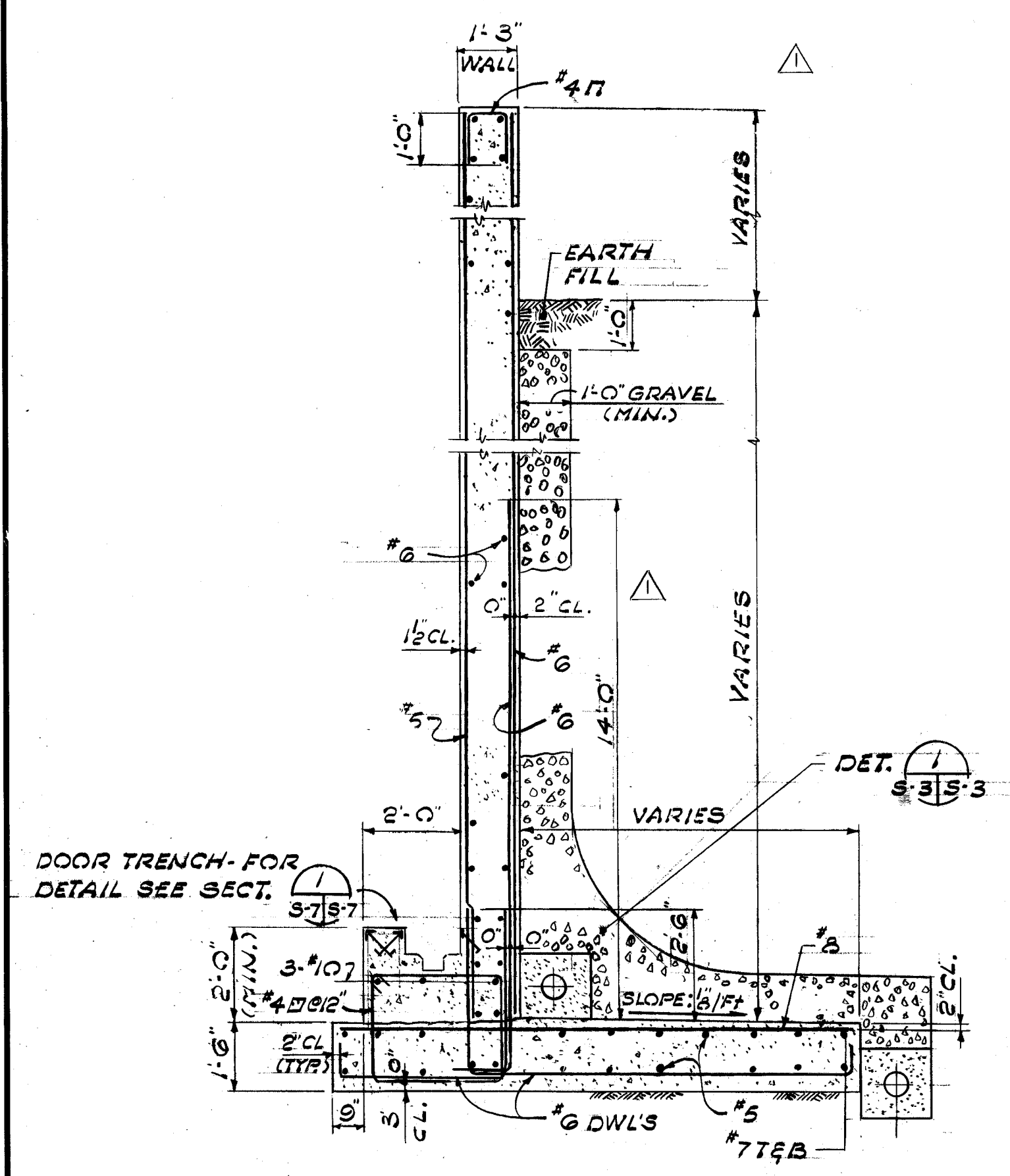
NOTE:
FOR "RETAINING WALL DETAILS"
SEE DWG. S-4.



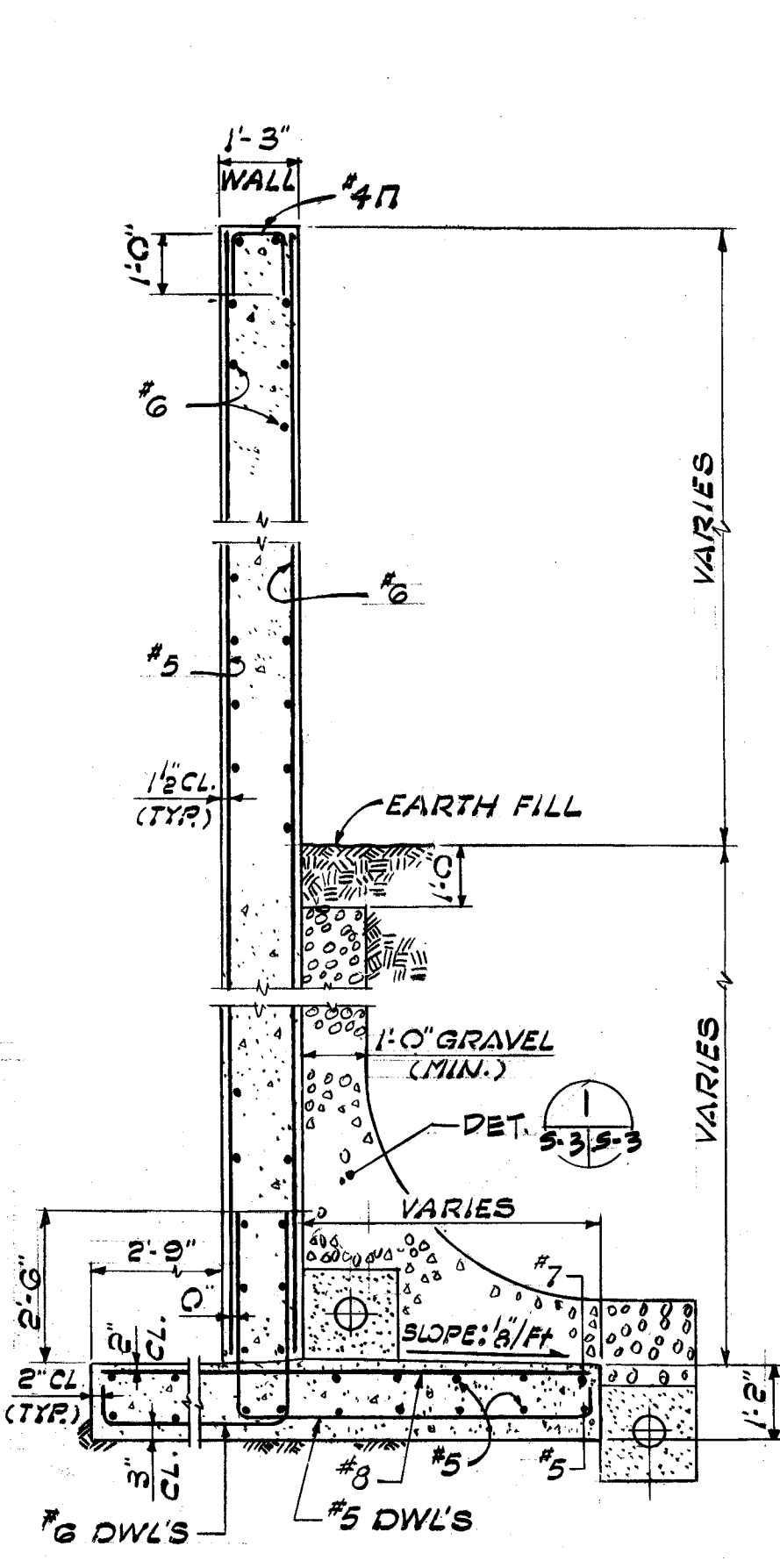
DETAIL 2
S-3 S-3



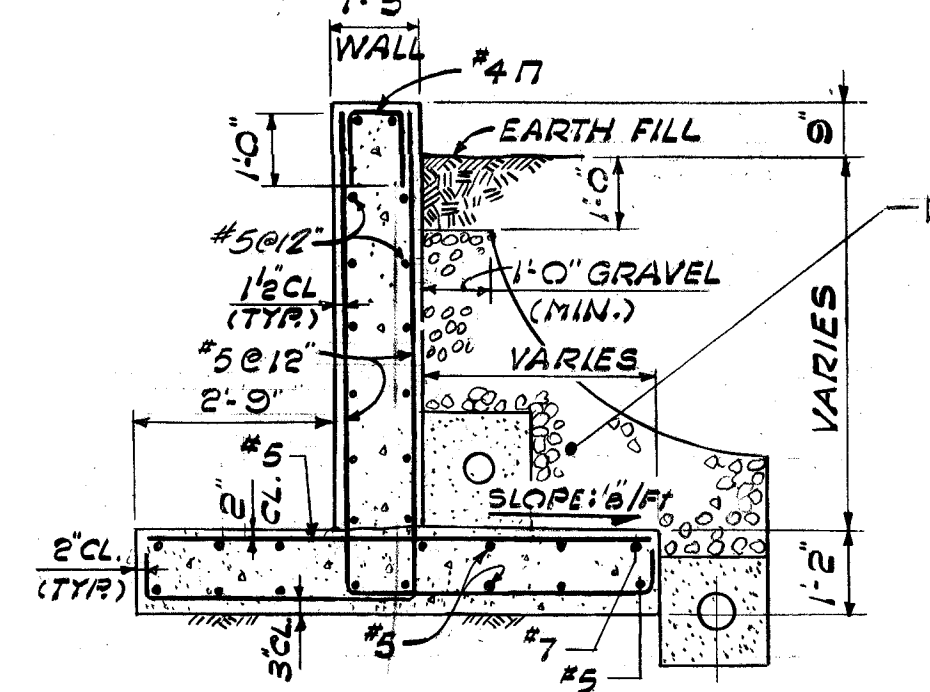
ELEVATION 2
LOADING PLATFORM
SCALE: 1/8" = 1'-0"
S-4 S-3



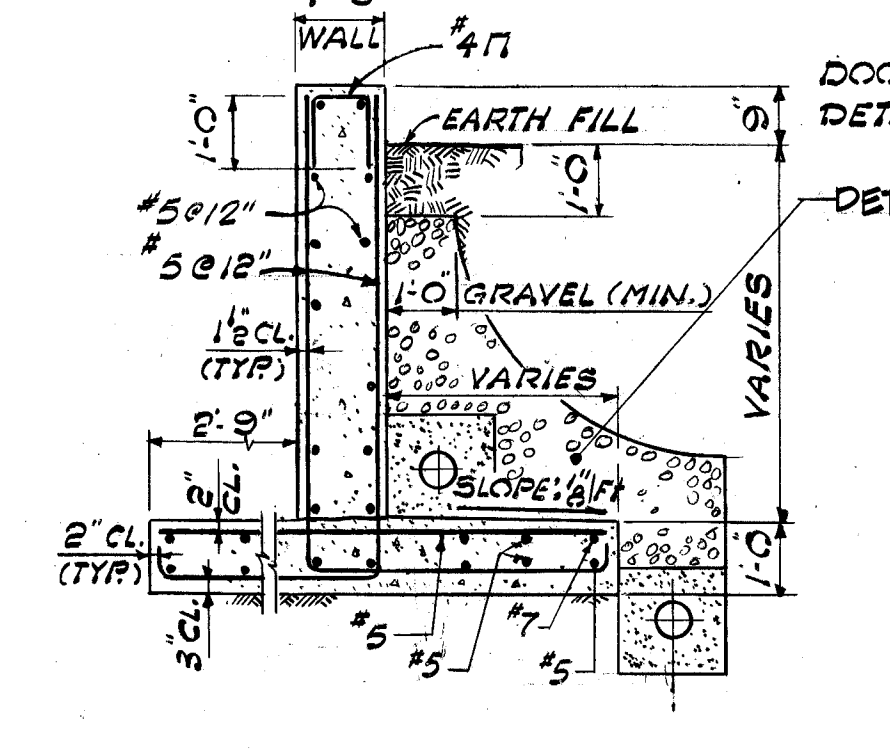
SECTION 1
SCALE: 3/8" = 1'-0"
S-4 S-3



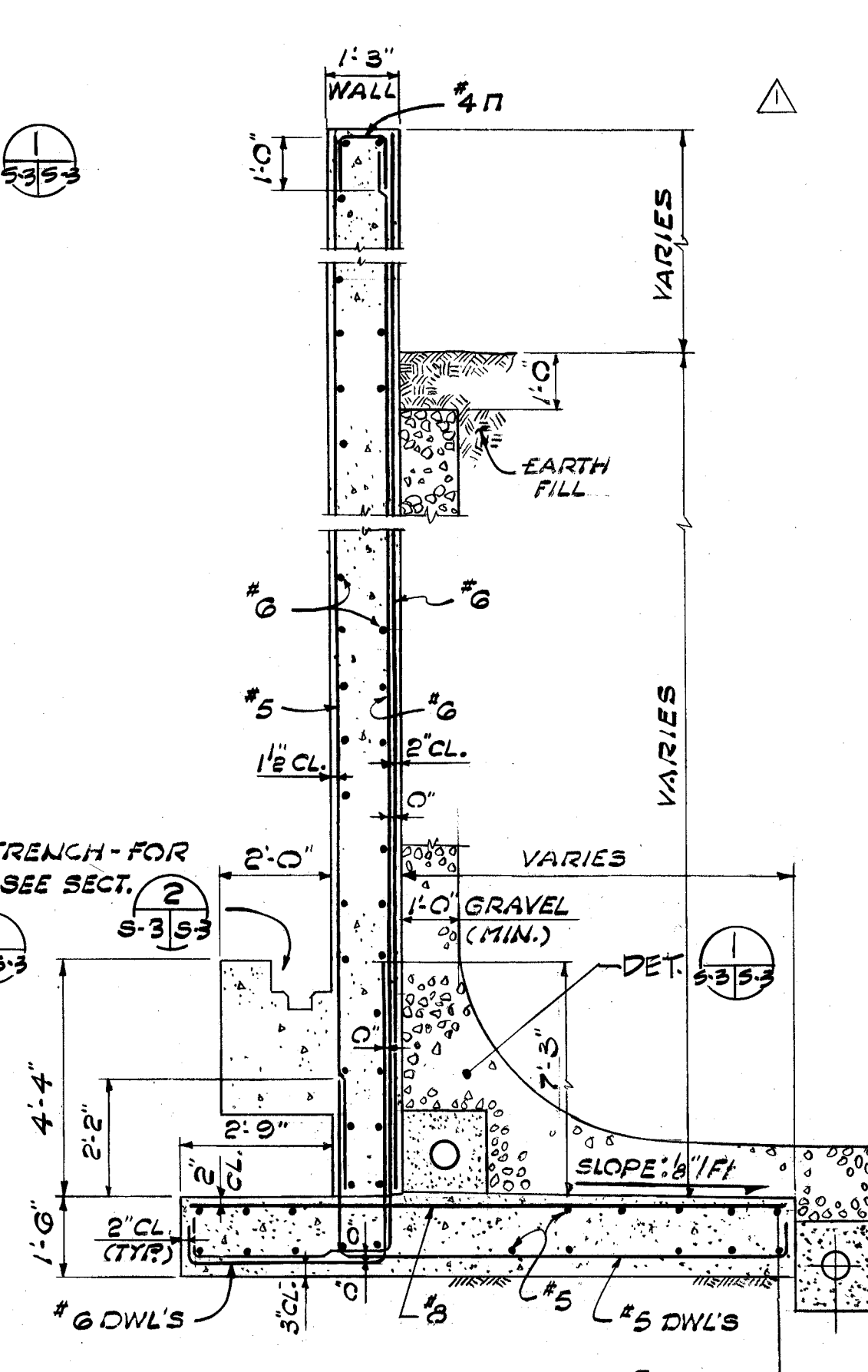
SECTION 2
SCALE: 3/8" = 1'-0"
S-4 S-3



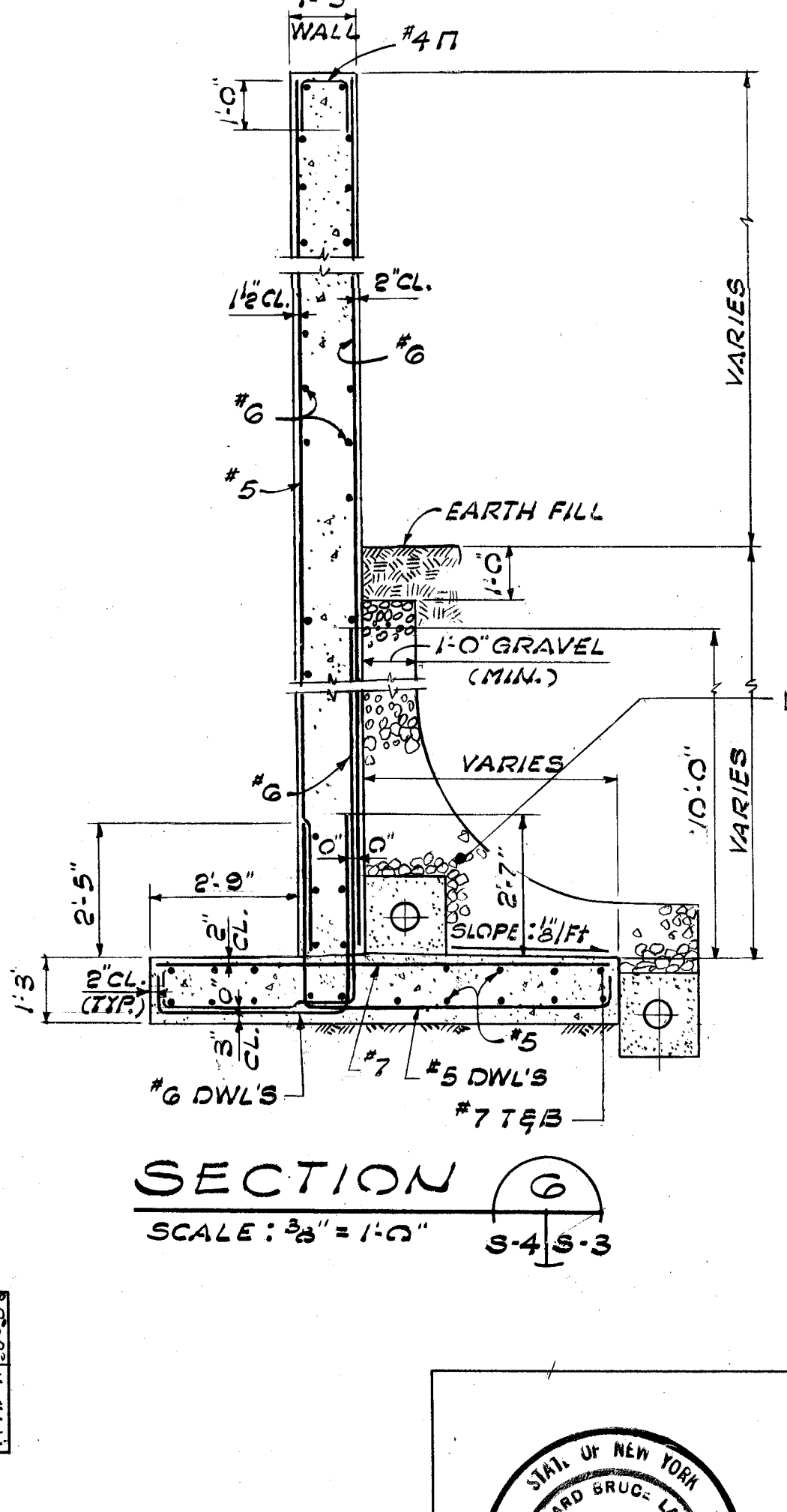
SECTION 3
SCALE: 3/8" = 1'-0"
S-4 S-3



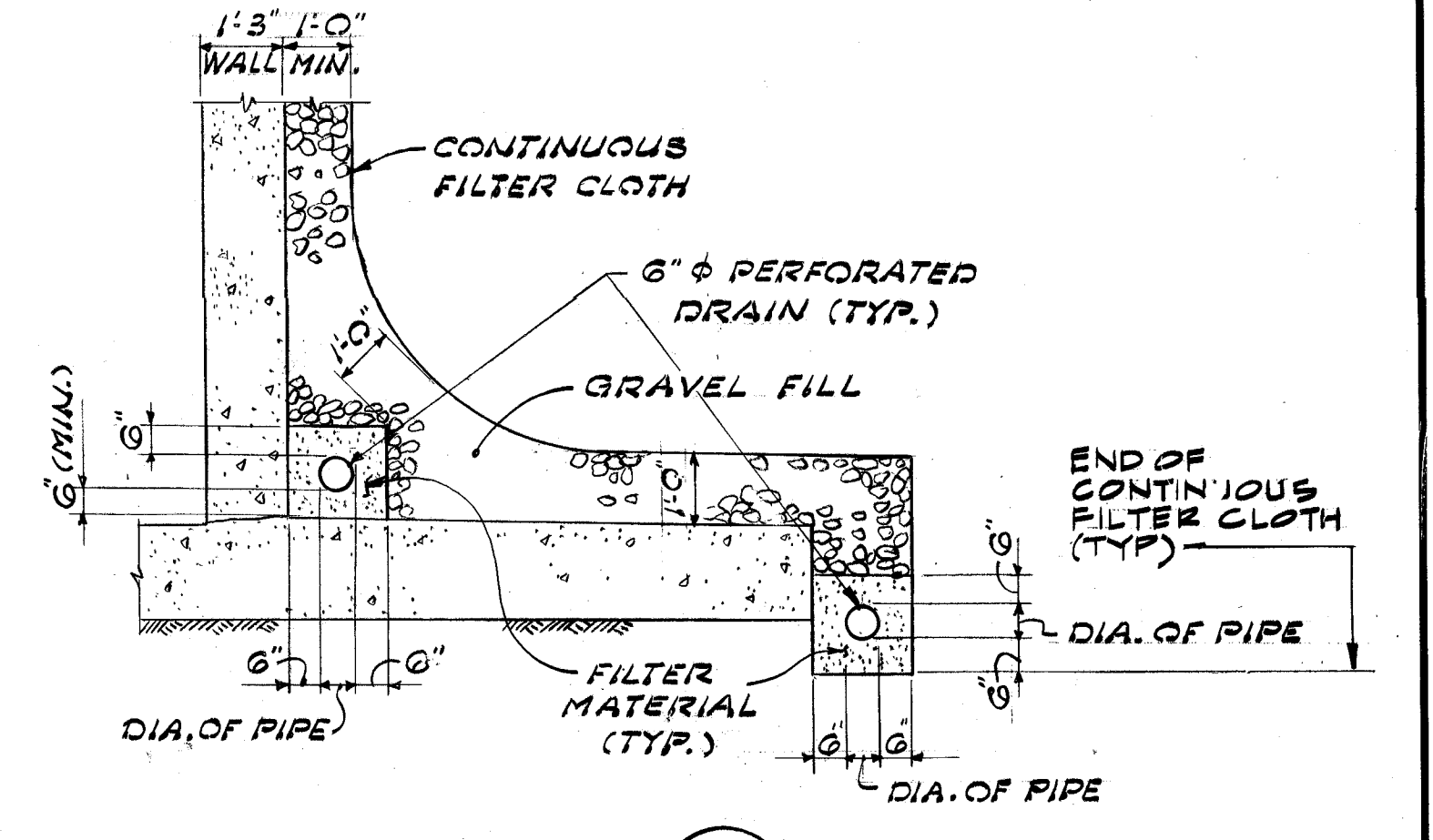
SECTION 4
SCALE: 3/8" = 1'-0"
S-4 S-3



SECTION 5
SCALE: 3/8" = 1'-0"
S-4 S-3



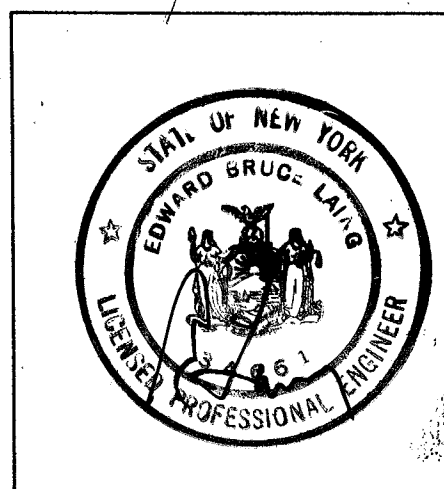
SECTION 6
SCALE: 3/8" = 1'-0"
S-4 S-3



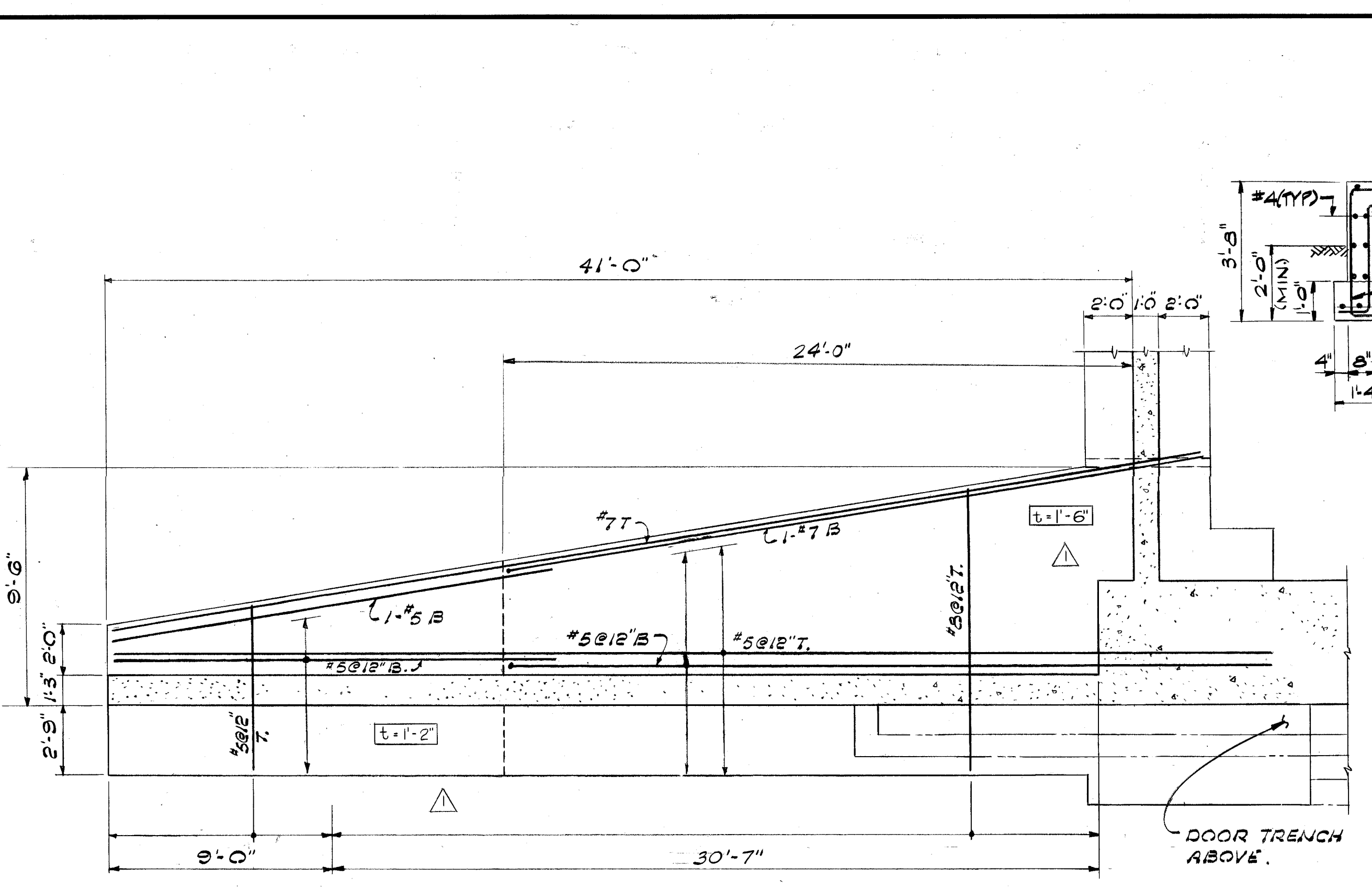
DETAIL 1
SCALE: 3/8" = 1'-0"
S-3 S-3
(TYPICAL 6" PERFORATED DRAIN)

1/8" = 1'-0" 0 5' 10' 15' 3/8" = 1'-0" 1' 0" 1' 2" 3" 4" 5" 6" 7'

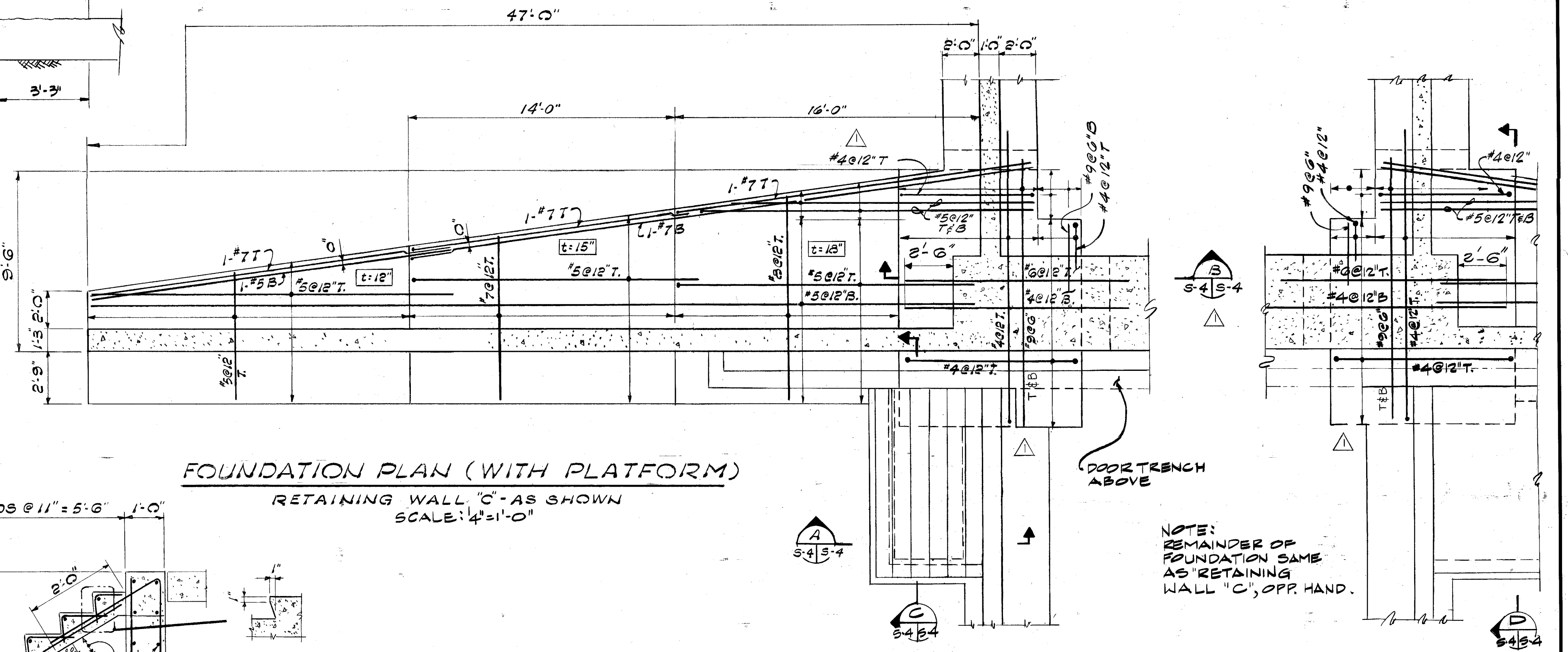
IF THE DRAWING IS A REDUCTION GRAPHIC SCALE MUST BE USED



DIMEN'S NOTES		RA	6-9-88	ND
SYMBOL	DESCRIPTION	PREPARED BY	DATE	APPROVED BY
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST. N.Y., N.Y.				
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20360				
NAVAL FACILITIES ENGINEERING COMMAND				
STANDARD DRAWING				
BOX MAGAZINE TYPE E				
FRONT ELEVATION & RETAINING WALL DETAILS				
PRINCIPAL E. LAING DATE 4-23-87	DATE 5/11/87	SIZE F	CODE IDENT NO. 80091	NAVY DRAWING NUMBER 1404525
ENGINEER IN CHARGE J. R. ROYCE DATE 5/11/87	DATE 5/11/87	SCALE AS NOTED	CONTRACT NO.	SHEET 3 OF 15
DATE 4/24/87	DATE 5/11/87	CATEGORY CODE 421	SPEC NO. NFSS-M44	

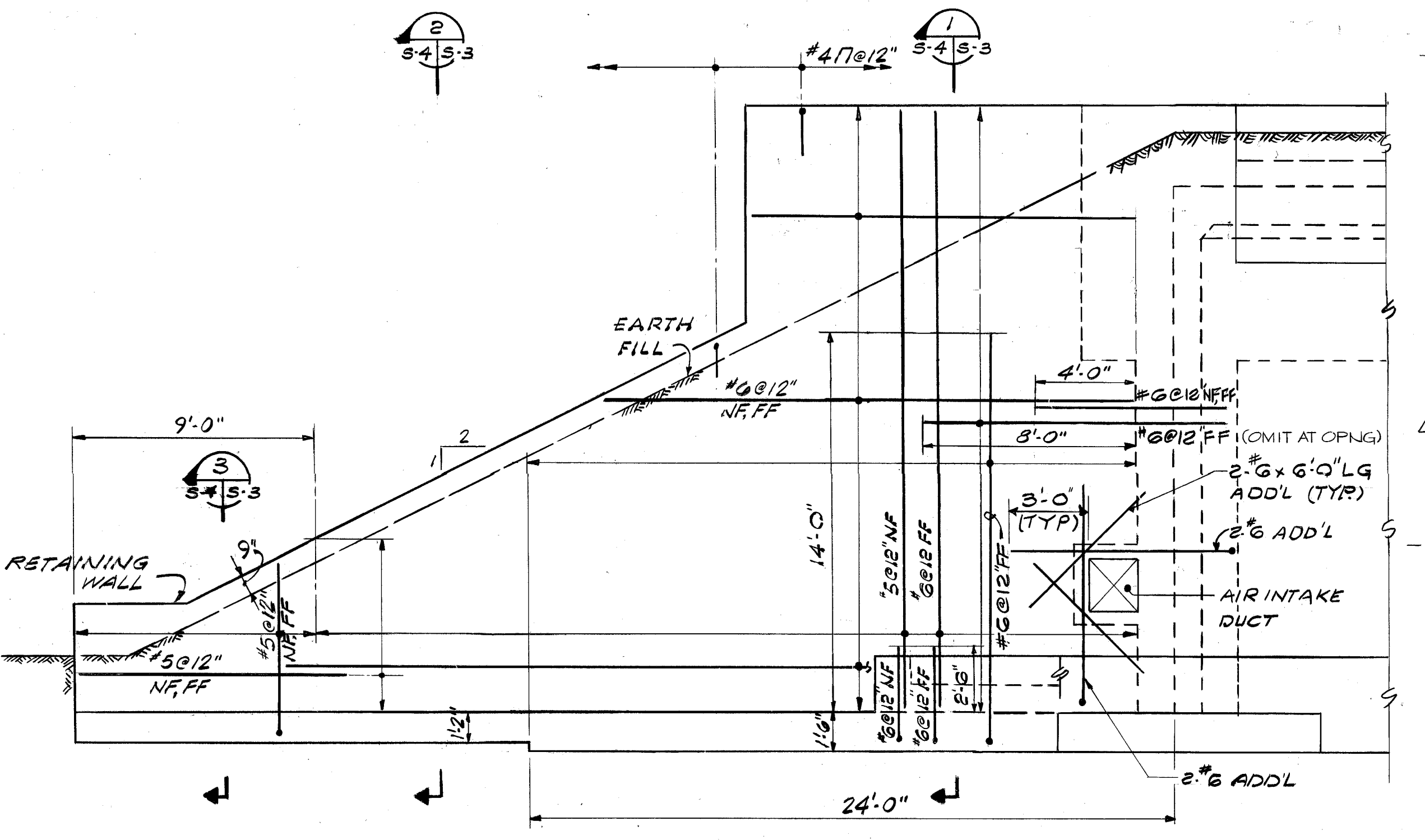


SECTION C
 SCALE: 3/8" = 1'-0" S-3 S-4

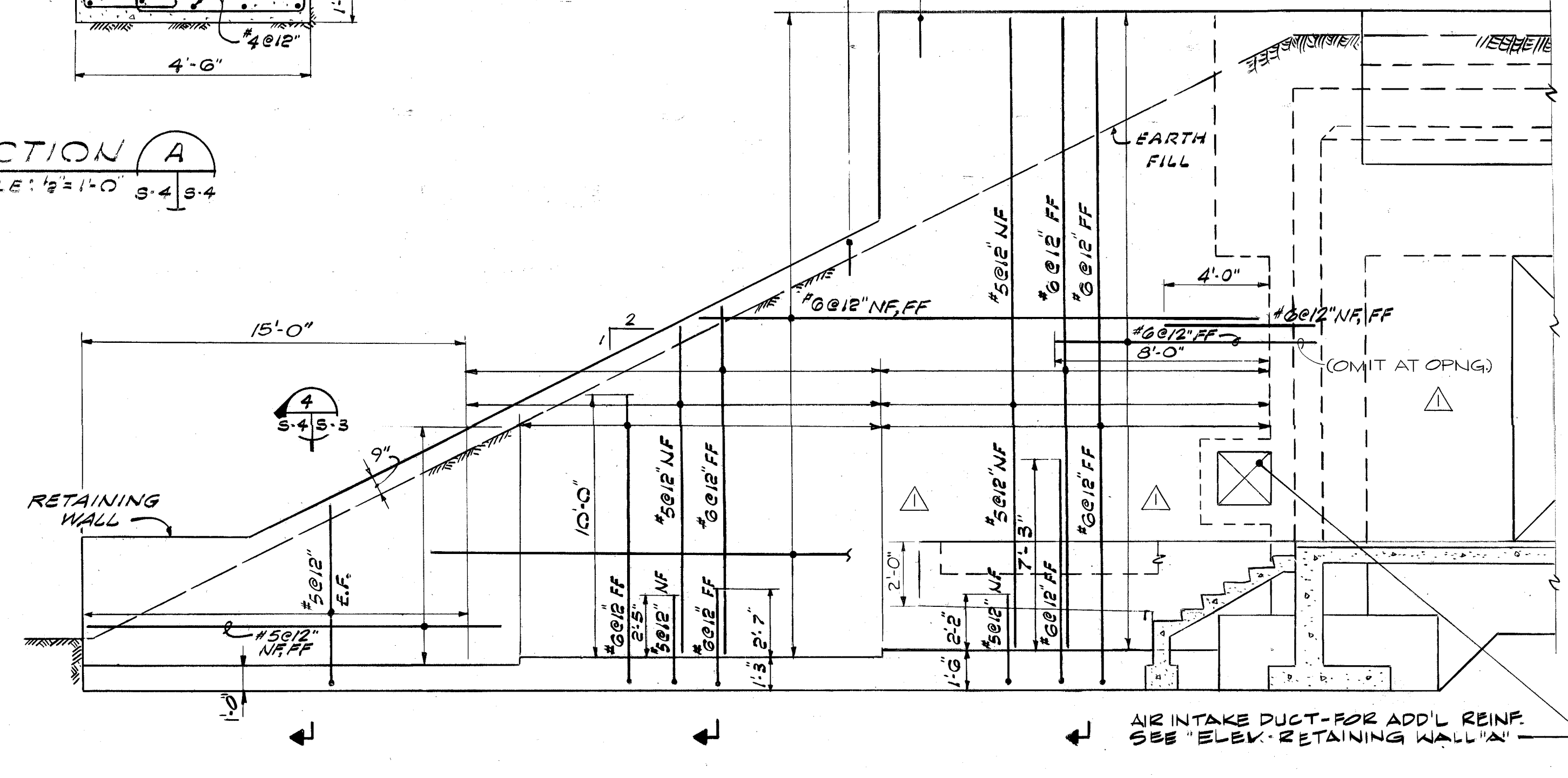


NOTE: REMAINDER OF FOUNDATION SAME AS RETAINING WALL "C", OPP. HAND.

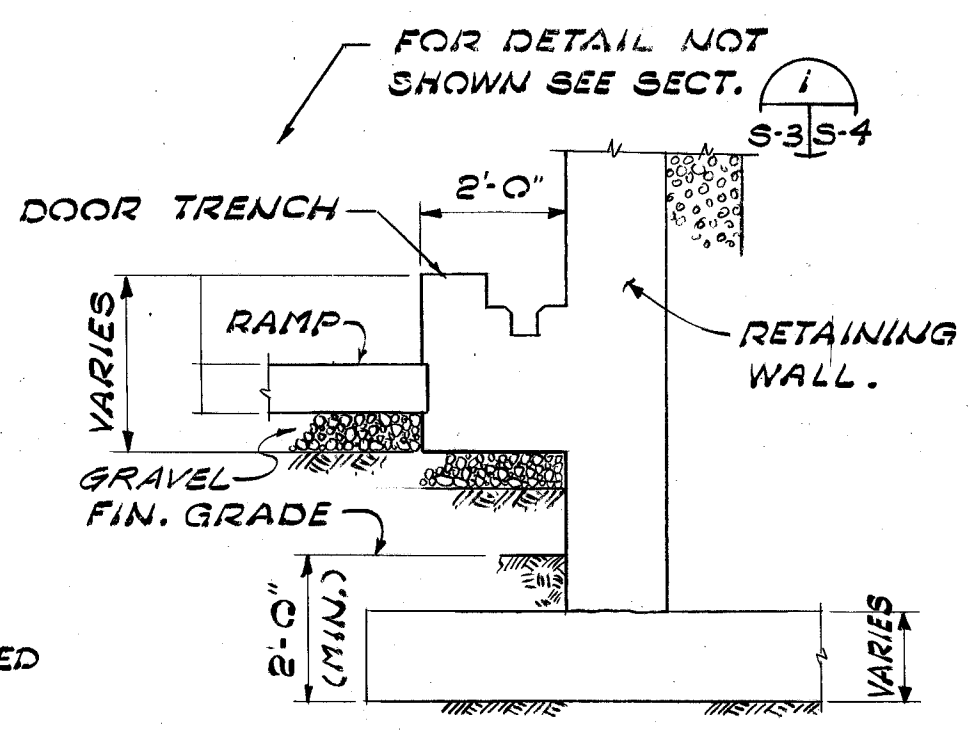
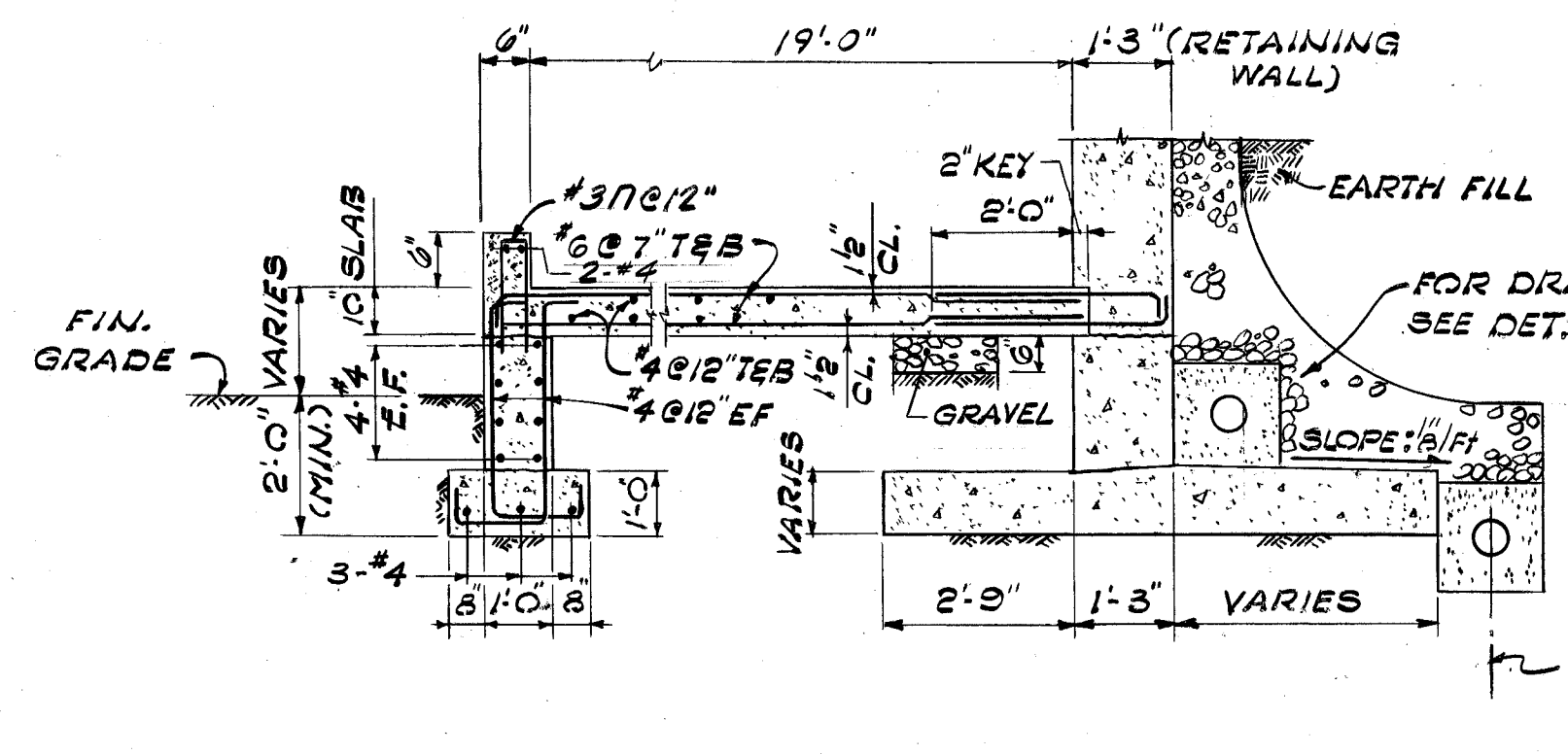
FOUNDATION PLAN (WITH PLATFORM)
 RETAINING WALL "D" AS SHOWN
 SCALE: 1/4" = 1'-0"



SECTION A
 SCALE: 3/8" = 1'-0" S-4 S-4

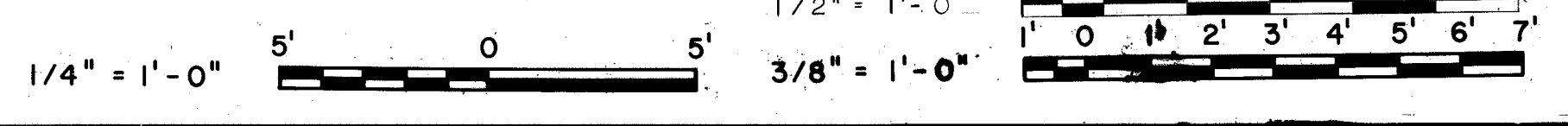


ELEVATION-RETAINING WALL "D" (WITH PLATFORM)
 SCALE: 1/4" = 1'-0"



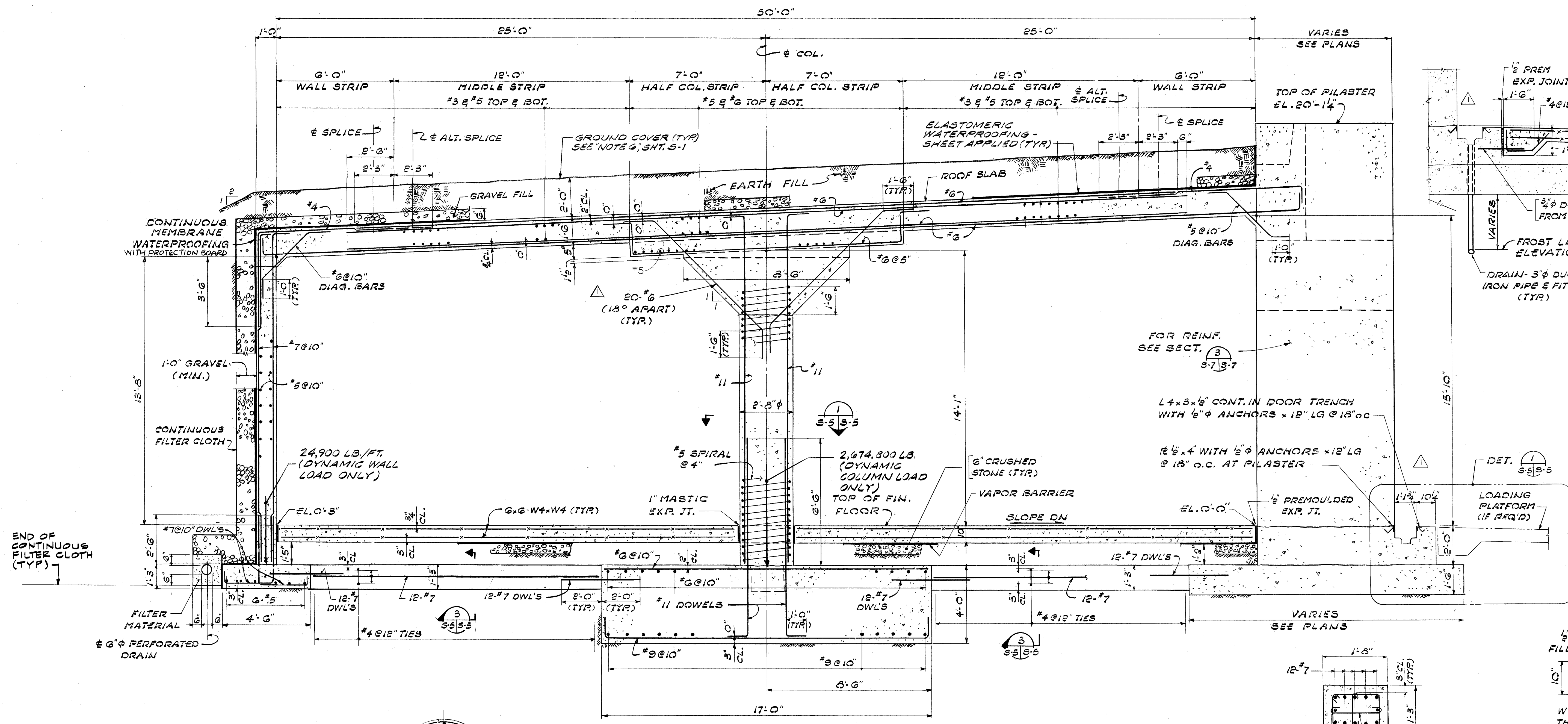
IF THE DRAWING IS A REDUCTION, GRAPHIC SCALE MUST BE USED

SECTION B
 SCALE: 3/8" = 1'-0" S-4 S-4

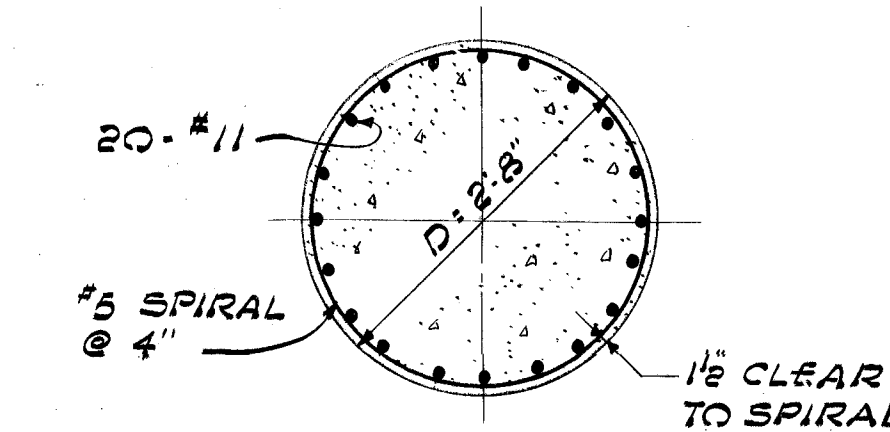


REVISIONS		PREPARED BY	DATE	APPROVED BY
RA	6-9-88	ND		

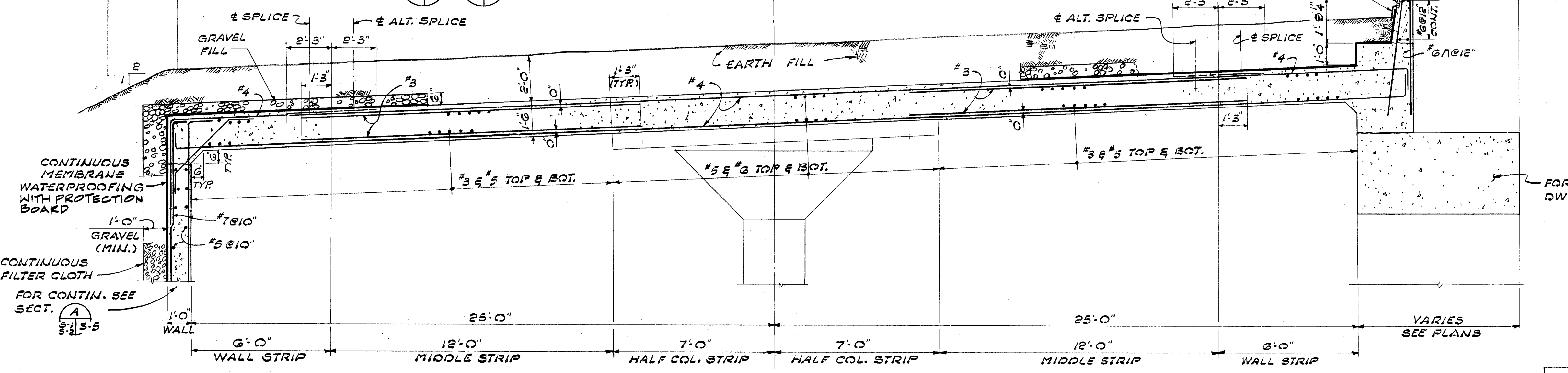
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST. N.Y., N.Y.		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350	
PRINCIPAL: E. LAING DATE: 4-23-87		NAVAL FACILITIES ENGINEERING COMMAND	
ENGINEER IN CHARGE: [Signature] BRANCH MANAGER: [Signature]		STANDARD DRAWING BOX MAGAZINE TYPE E	
SCALE AS NOTED		FRONT ELEVATION & RETAINING WALL DETAILS	
SIZE: F	CODE IDENT NO: 80091	NAVFAC DRAWING NUMBER: 1404526	SHEET: 4 OF 15
DATE: 4/20/87	SCALE: AS NOTED	CONTRACT NO: [Blank]	CATEGORY CODE: 421
SPEC NO: NFSS-M44			



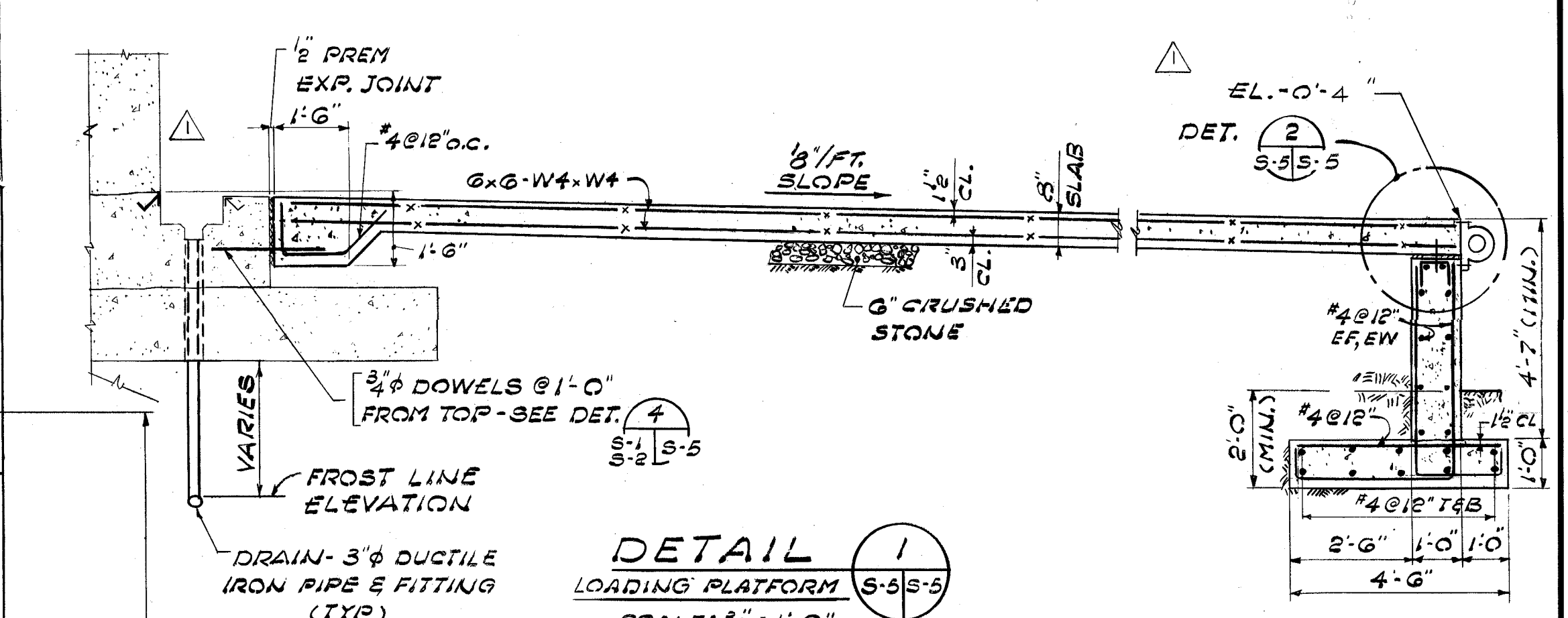
SECTION A
(COLUMN STRIP)
SCALE: 3/8" = 1'-0"



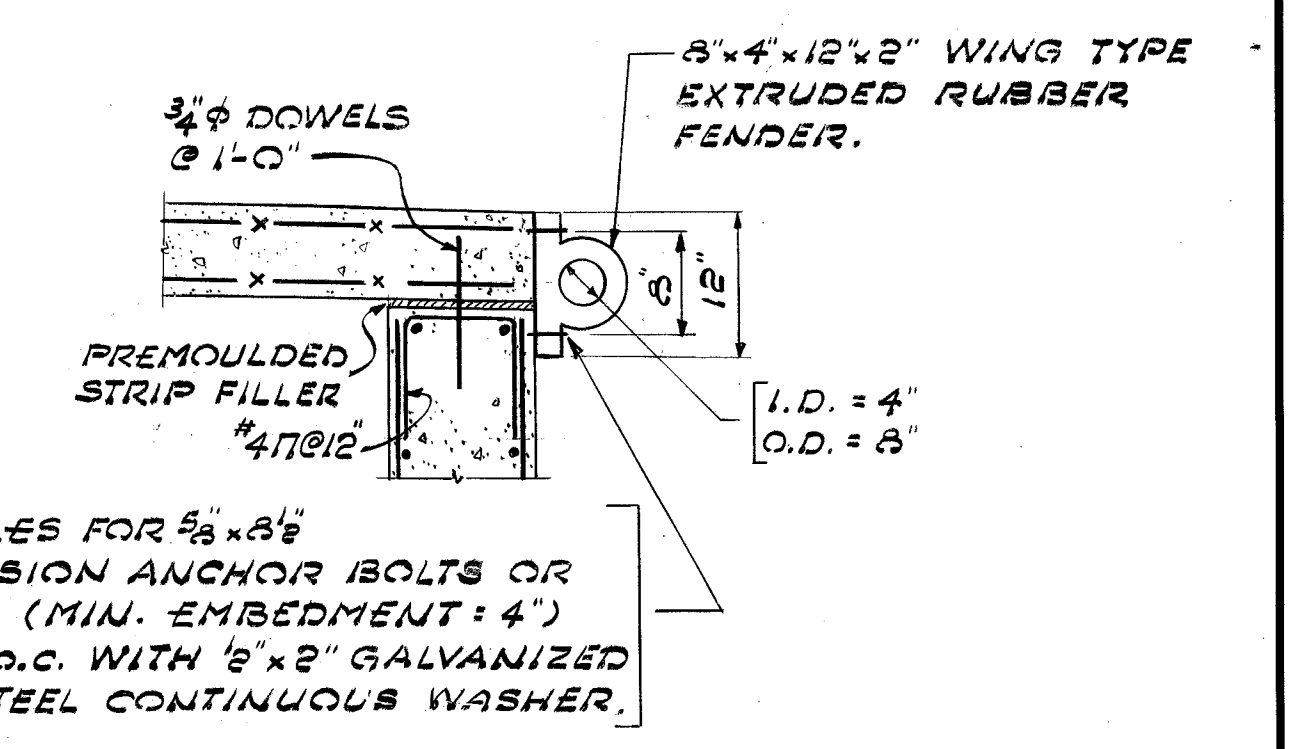
SECTION 1 2
SCALE: 3/4" = 1'-0"



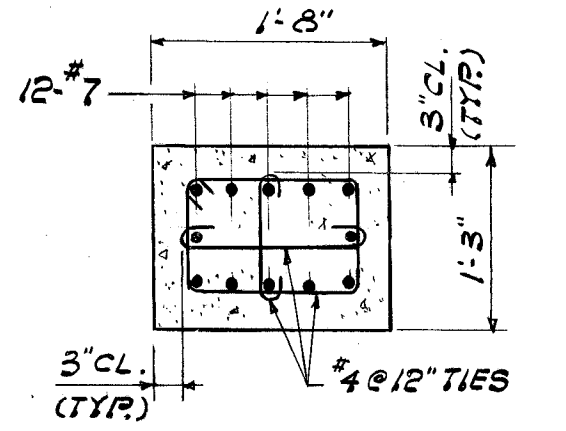
SECTION B
(TYP. FOR WALL & MIDDLE STRIPS)
SCALE: 3/8" = 1'-0"



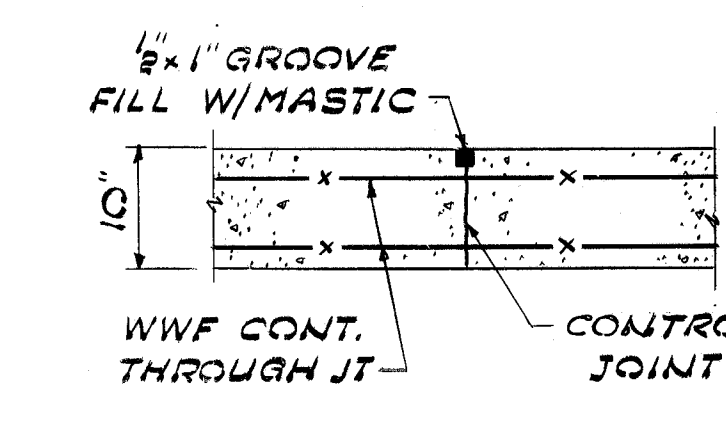
DETAIL 1
LOADING PLATFORM
SCALE: 3/8" = 1'-0"



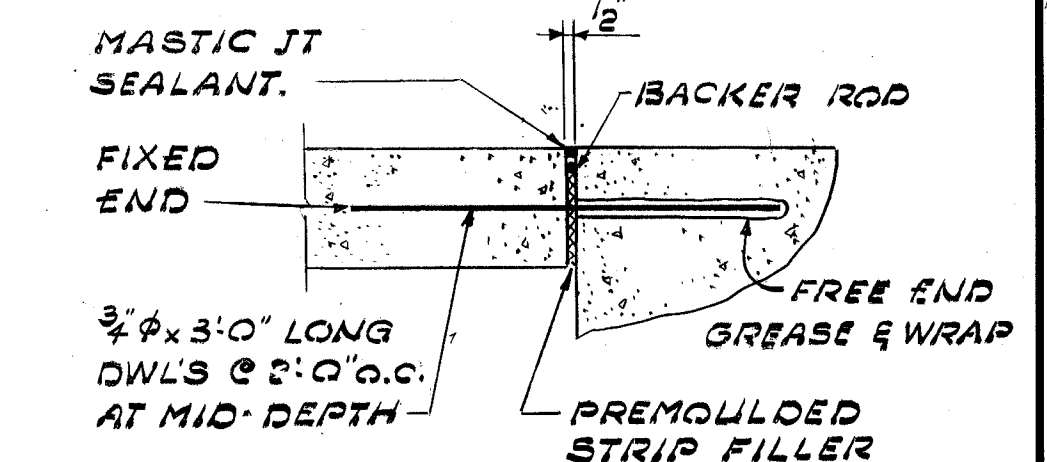
DETAIL 2
SCALE: 3/8" = 1'-0"



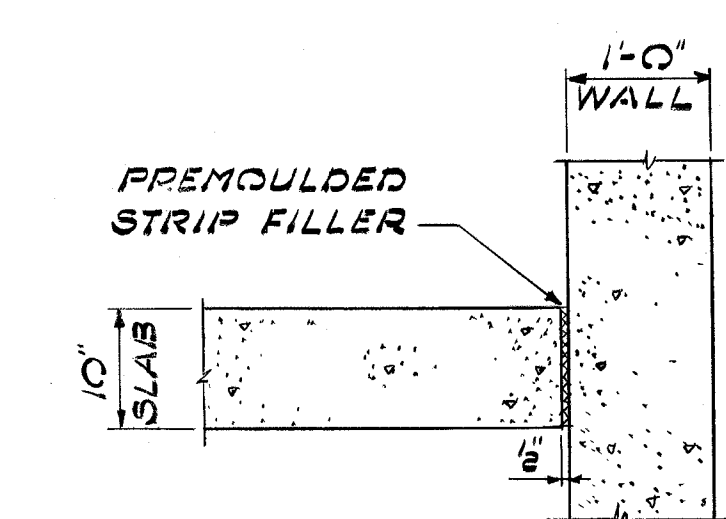
SECTION 3
SCALE: 3/4" = 1'-0"



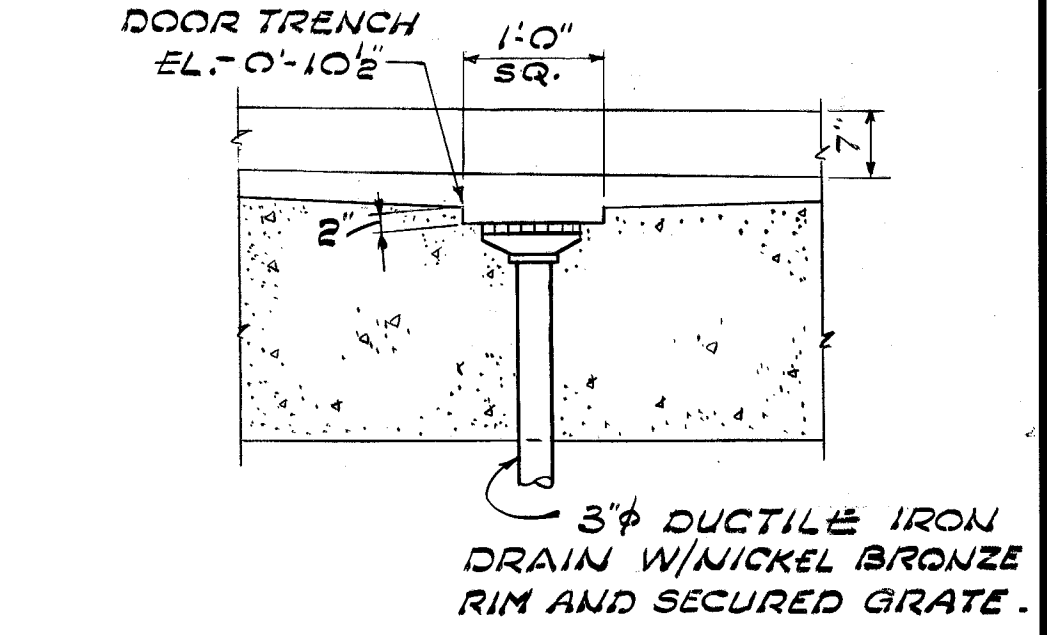
DETAIL 3
SCALE: 3/4" = 1'-0"



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



DETAIL 5
SCALE: 3/4" = 1'-0"



DETAIL 6
SCALE: 3/4" = 1'-0"

IF THE DRAWING IS A REDUCTION,
GRAPHIC SCALE MUST BE USED

3/8" = 1'-0"

3/4" = 1'-0"

SYMBOL	DESCRIPTION	PREPARED BY	DATE	APPROVED BY
REIN		RA	6-9-88	ND

REVISIONS

AMMANN & WHITNEY CONSULTING ENGINEERS
38 MORTON ST. N.Y.N.Y.

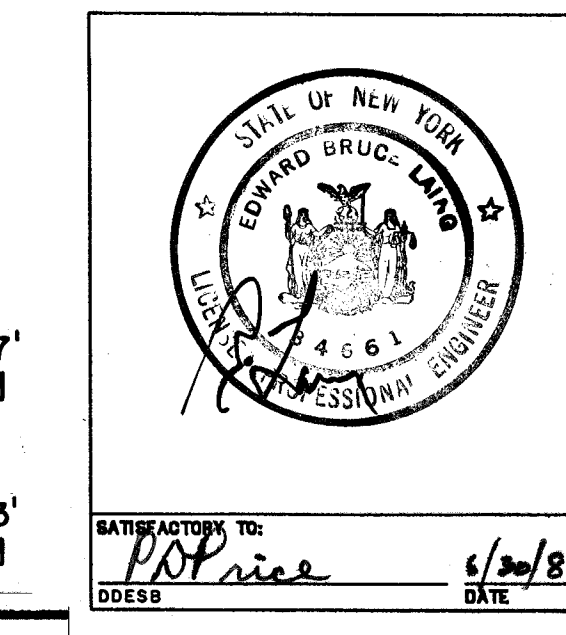
DEPARTMENT OF THE NAVY
WASHINGTON, D.C. 20390

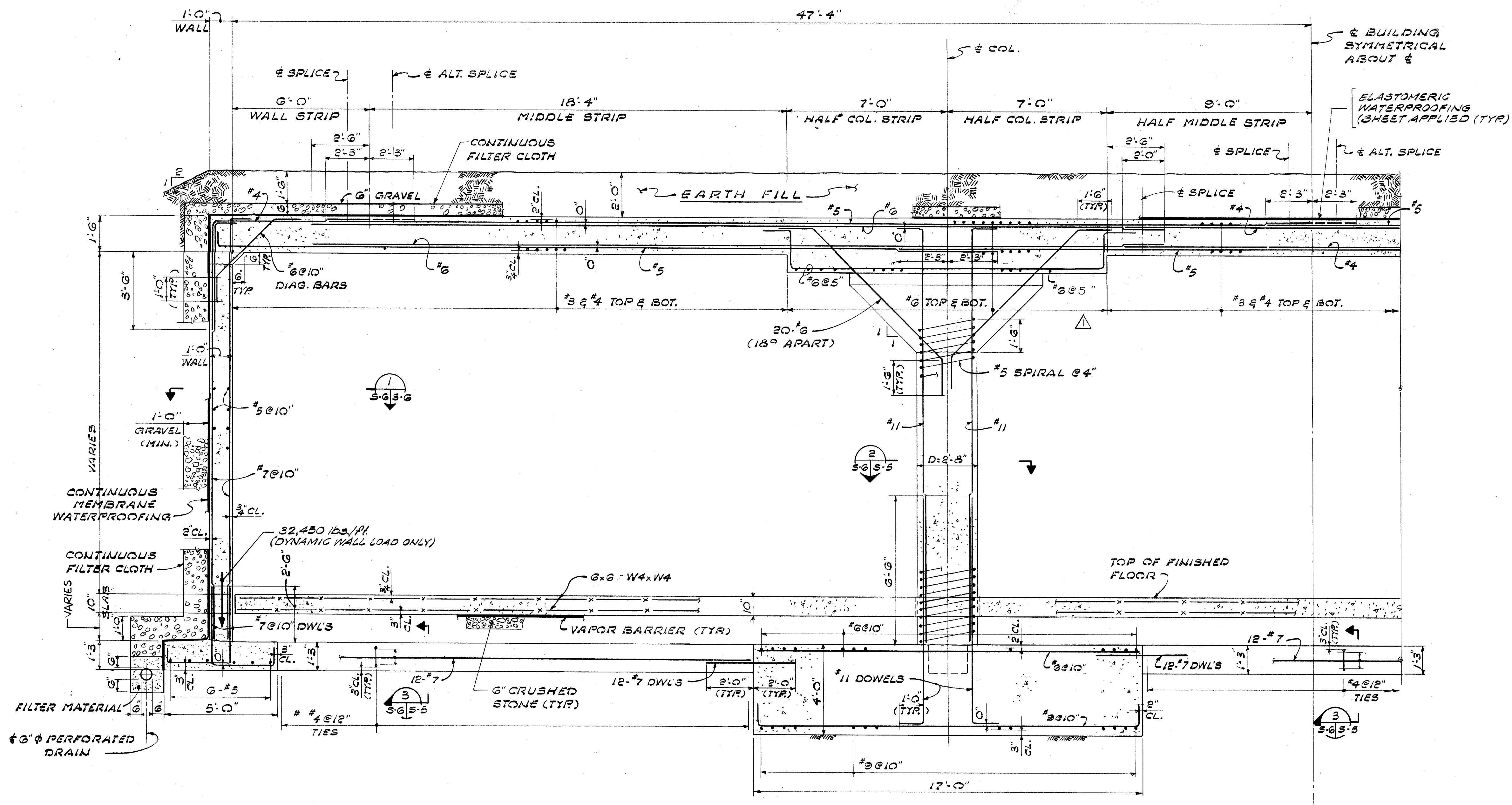
NAVAL FACILITIES ENGINEERING COMMAND
STANDARD DRAWING
BOX MAGAZINE TYPE E
SECTIONS & DETAILS

DATE: 4-23-87
PRINCIPAL: E. LANG
DESIGNED BY: R. R. RICE
CHECKED BY: R. R. RICE
APPROVED BY: R. R. RICE

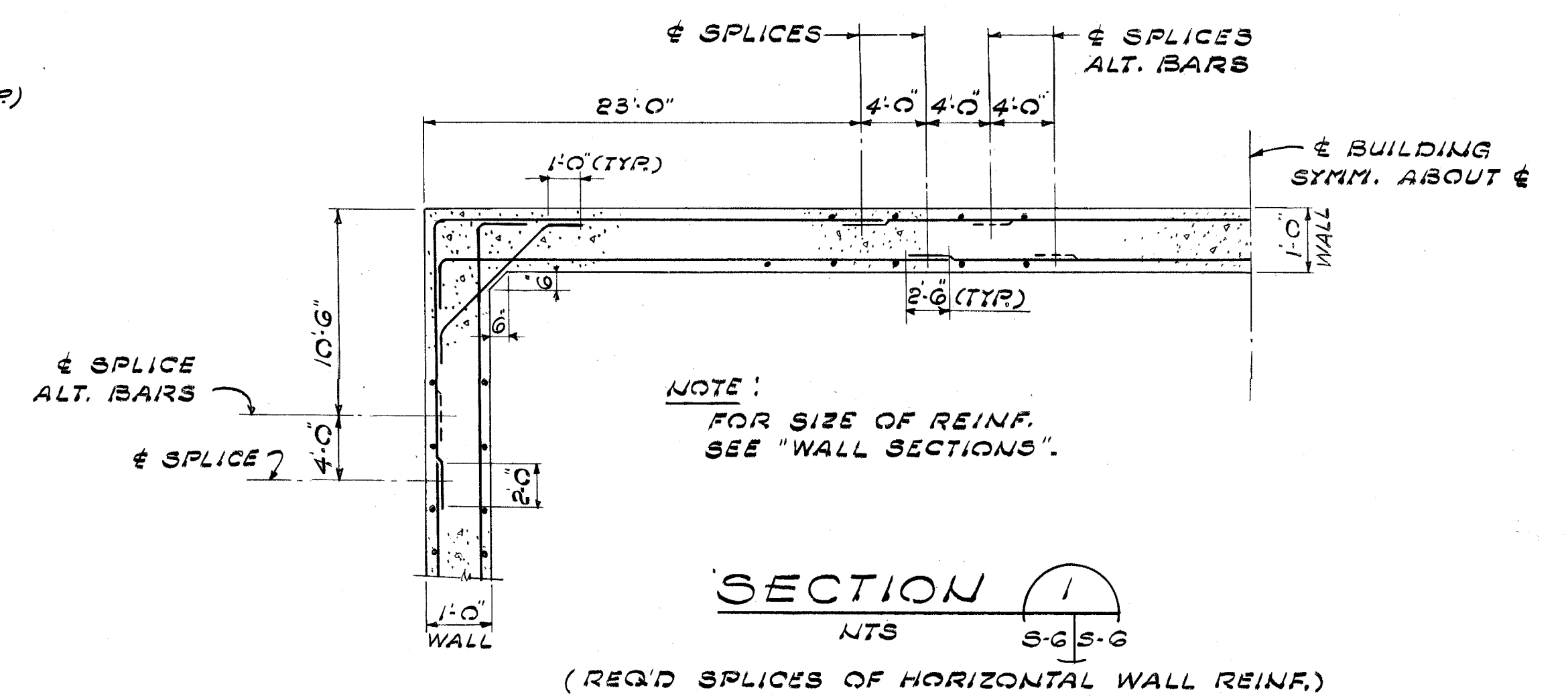
SCALE AS NOTED
CATEGORY CODE: 421

NAVY CODE IDENT NO: 80091
NAVFAC DRAWING NUMBER: 1404527
CONTRACT NO: S-5
SHEET 5 OF 15

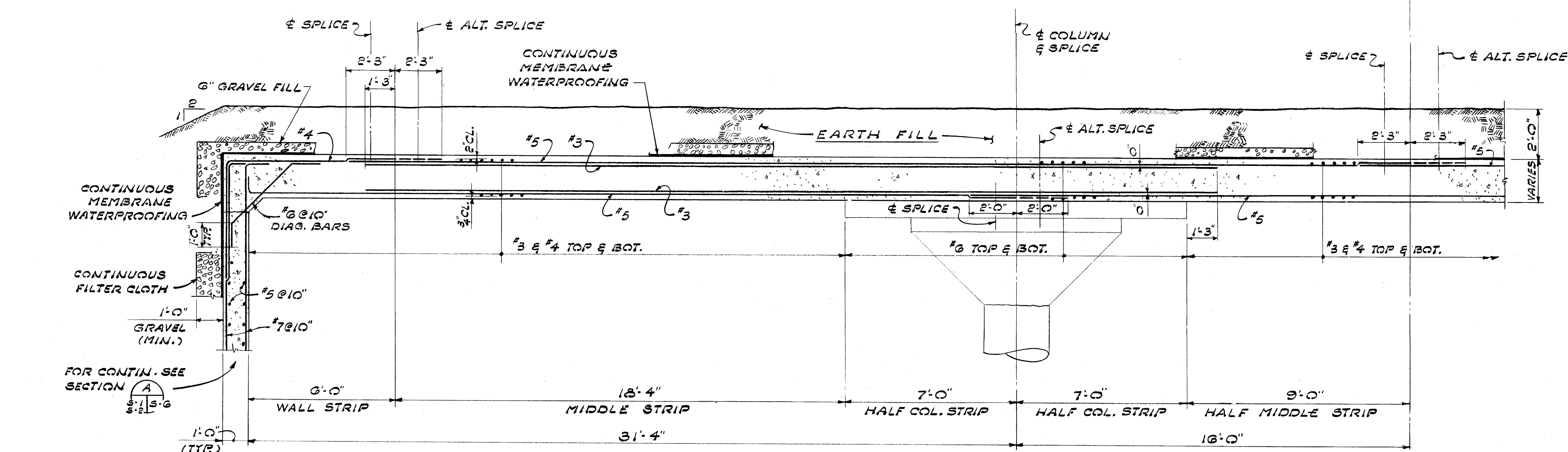




SECTION A
(COLUMN STRIP)
Scale: 3/8" = 1'-0"

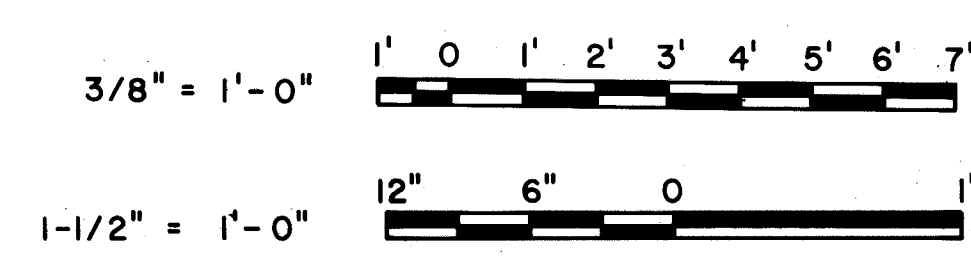


SECTION I
Scale: 3/8" = 1'-0"
(REQ'D SPLICES OF HORIZONTAL WALL REINF.)



SECTION B
(TYP. FOR WALL & MIDDLE STRIPS)
Scale: 3/8" = 1'-0"

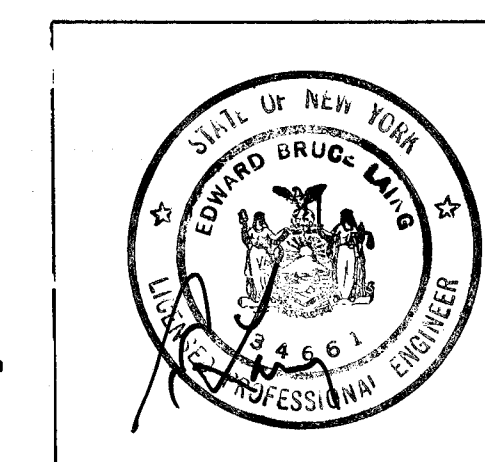
IF THE DRAWING IS A REDUCTION, GRAPHIC SCALE MUST BE USED

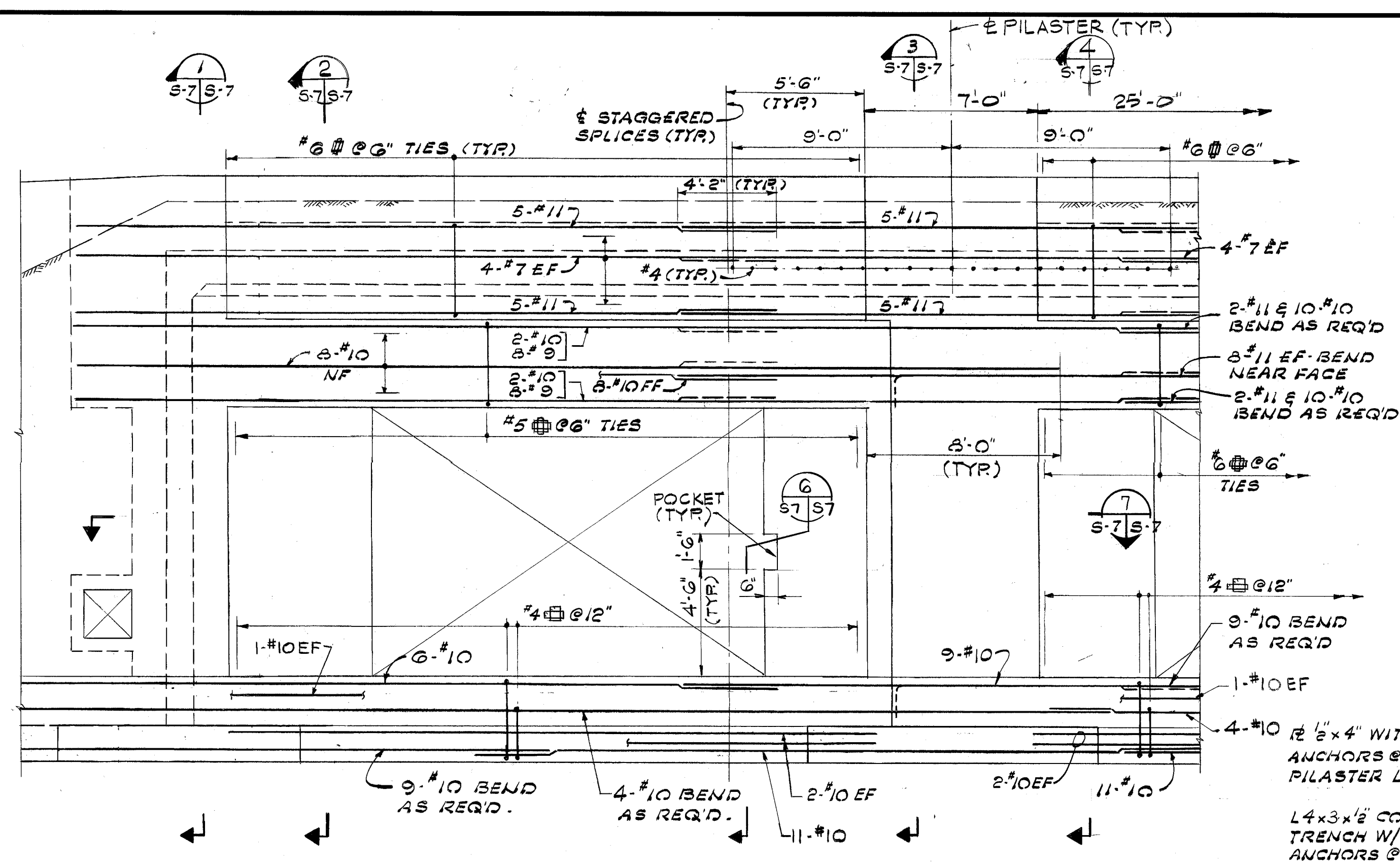


SYMBOL	DESCRIPTION	PREPARED BY	DATE	APPROVED BY
▲	REINF. SPACING SECT. "A"	RA	6-9-88	ND

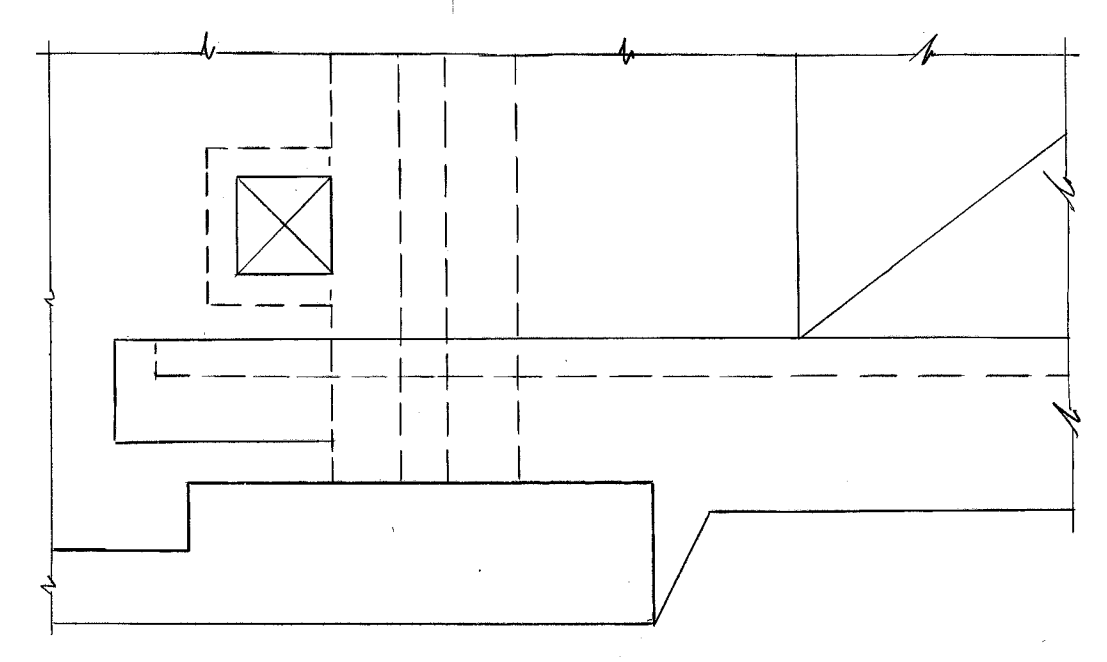
REVISIONS				
NO.	DESCRIPTION	DATE	BY	APP'D.

AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., N.Y., N.Y.		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20360	
E. LANG PRINCIPAL 4/29/87		NAVAL FACILITIES ENGINEERING COMMAND	
H. W. B. RUTHERFORD, P.E. ENGINEER IN CHARGE		STANDARD DRAWING BOX MAGAZINE TYPE E SECTIONS & DETAILS	
SIZE: F	CODE IDENT NO: 80091	NAVFAC DRAWING NUMBER: 1404528	SHEET: 6 OF 15
DATE: 6/30/87	SCALE AS NOTED	CONTRACT NO: NFSS-M44	CATEGORY CODE: 421

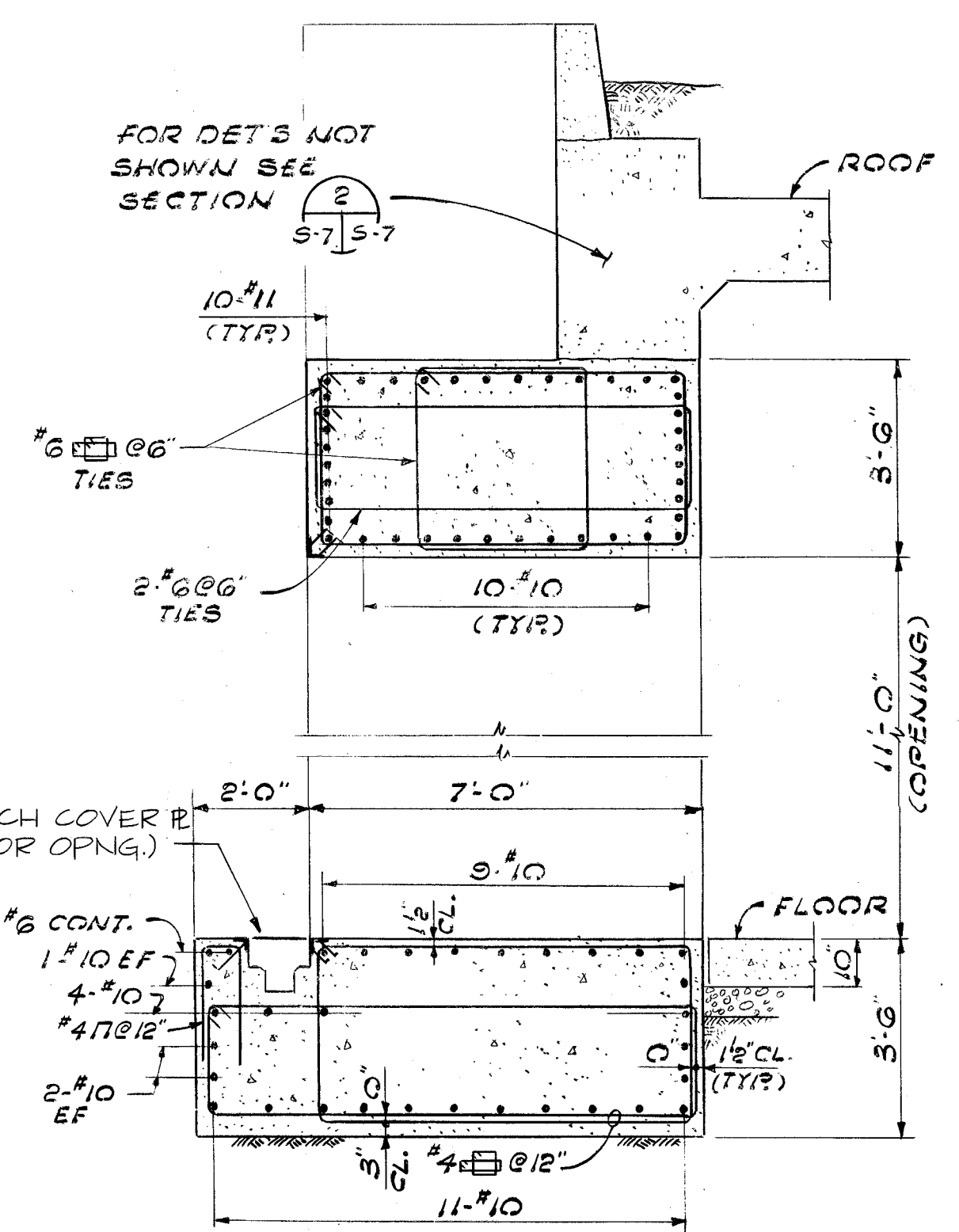




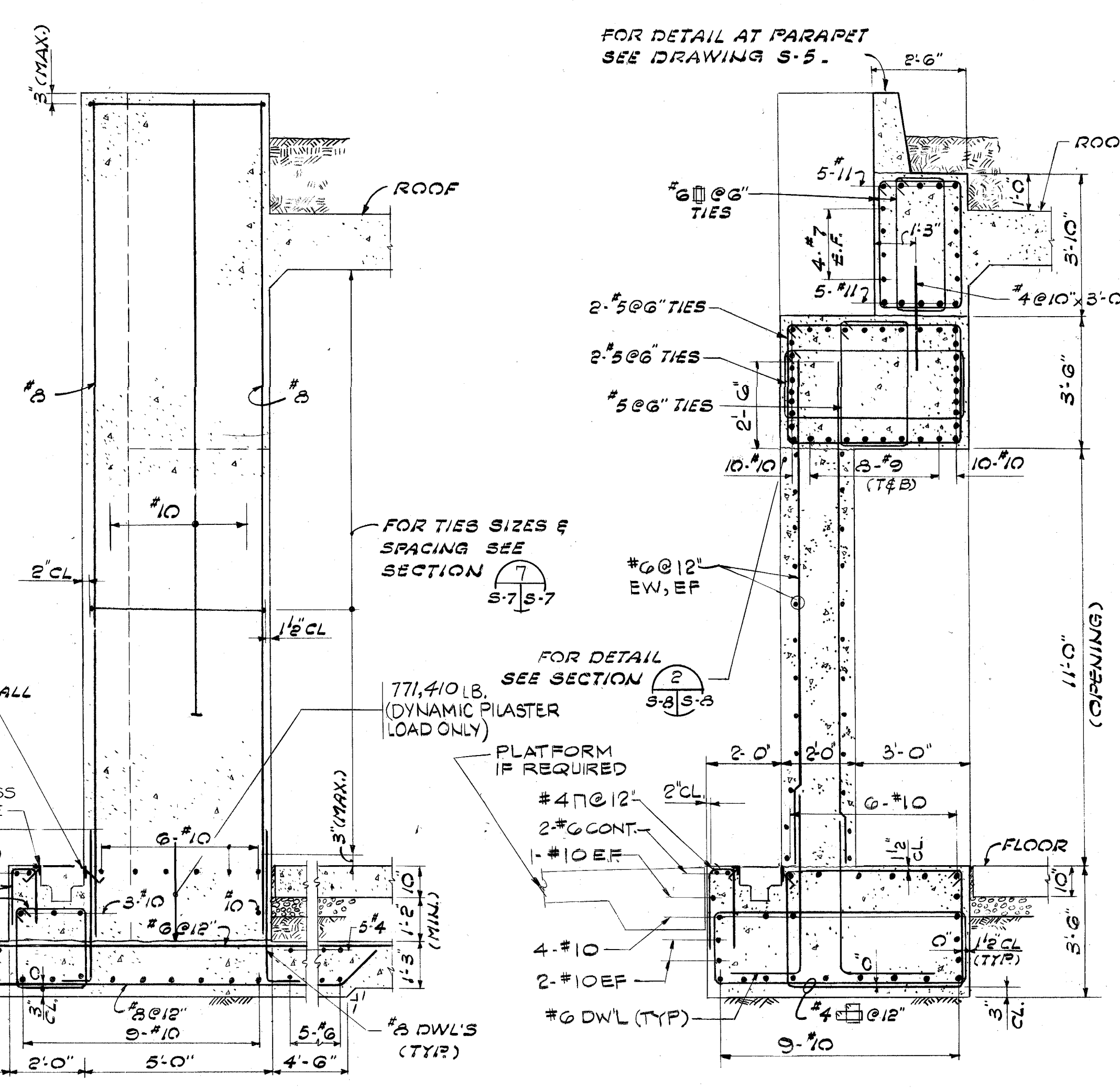
ELEVATION 1 SHOWN
SCALE: 1/4" = 1'-0"
ELEVATION 2 OPP. HAND



ELEVATION 3 SHOWN
SCALE: 1/4" = 1'-0"
ELEVATION 4 OPP. HAND



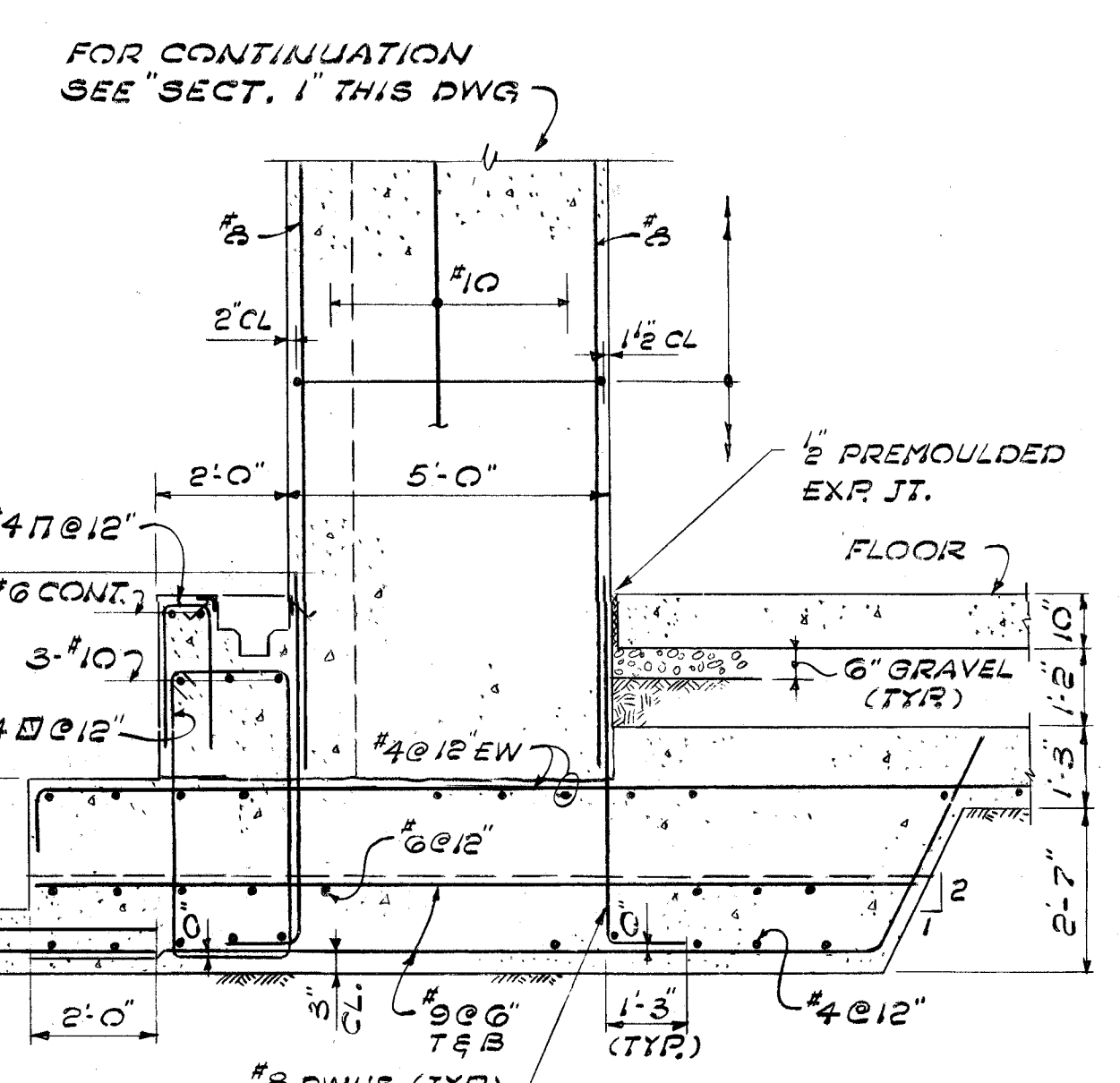
SECTION 4
SCALE: 3/8" = 1'-0"



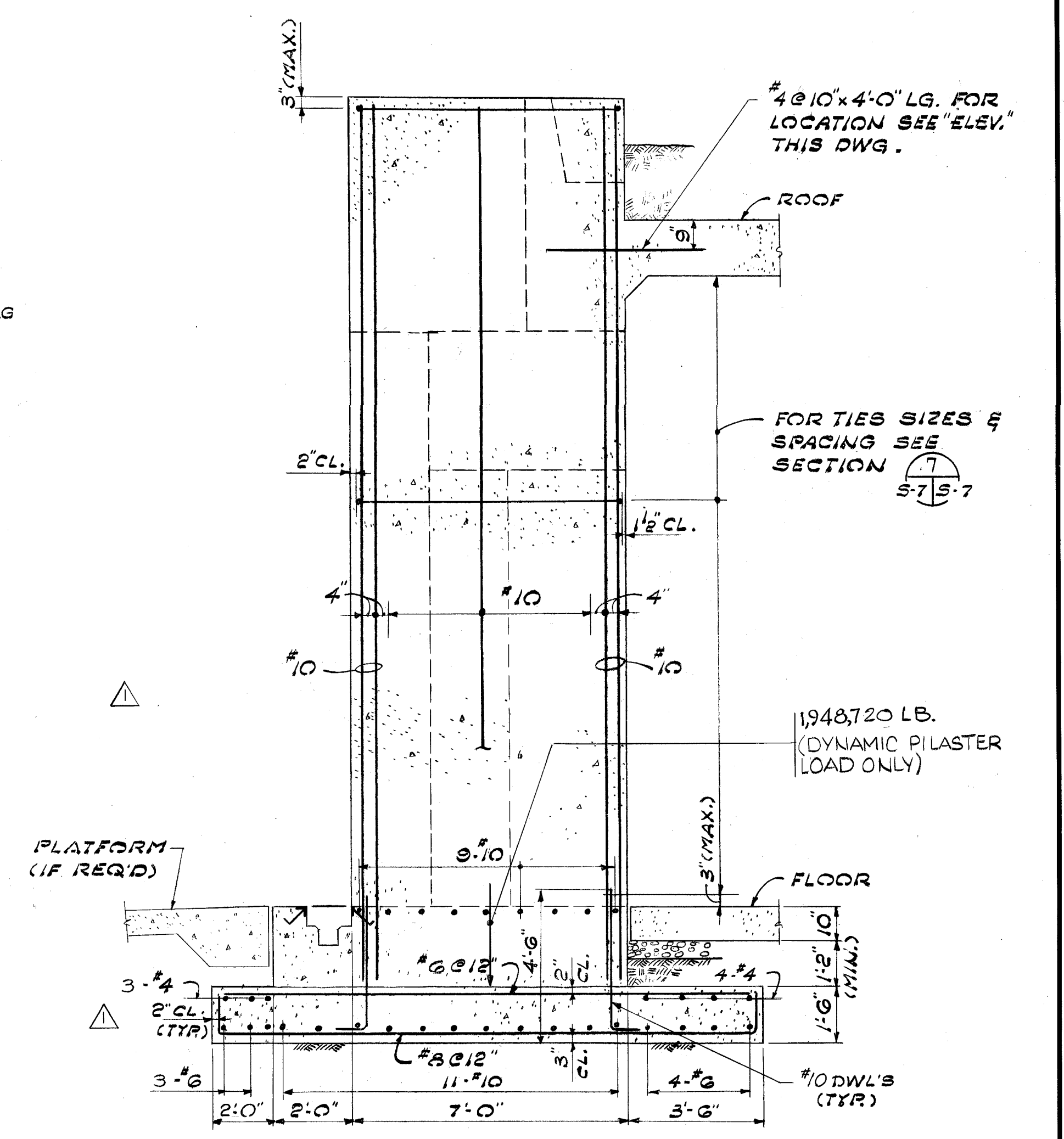
SECTION 1
SCALE: 3/8" = 1'-0"

SECTION 2
SCALE: 3/8" = 1'-0"

L4x3x1/2 CONT. IN DOOR TRENCH W/1/2"x12" LG. ANCHORS @ 18" O.C. DEPRESS ANGLE AT DOOR OPNG. SEE SECT. 5-7 S-7



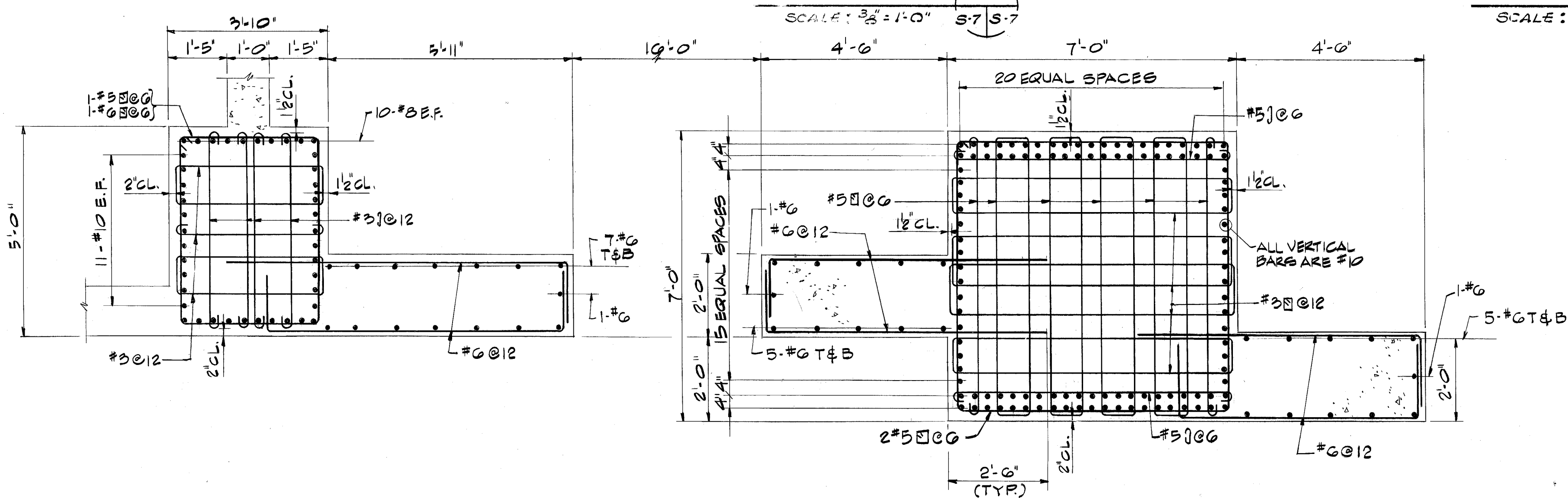
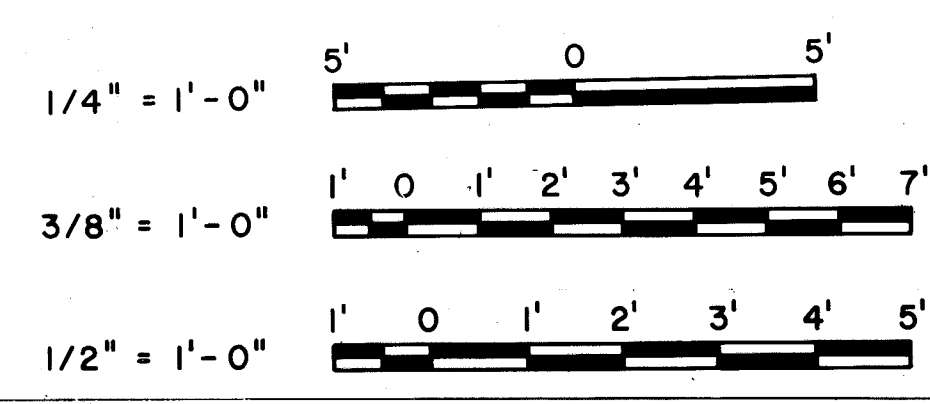
SECTION 5
SCALE: 3/8" = 1'-0"



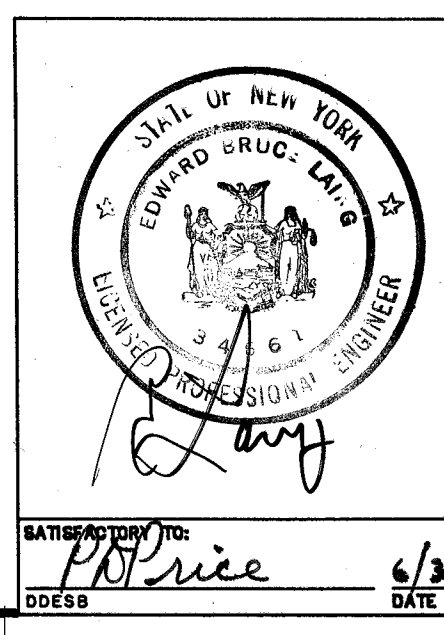
SECTION 3
SCALE: 3/8" = 1'-0"

- NOTE:
- ALL PLASTER SHALL BE PLUMB, ALLOWABLE DEVIATION FROM THE VERTICAL SHALL NOT EXCEED 1/4" PER 10'-0" VERTICAL HEIGHT.
 - PROVIDE DOWELS FOR ALL VERTICAL BARS IN PLASTER & WALLS.

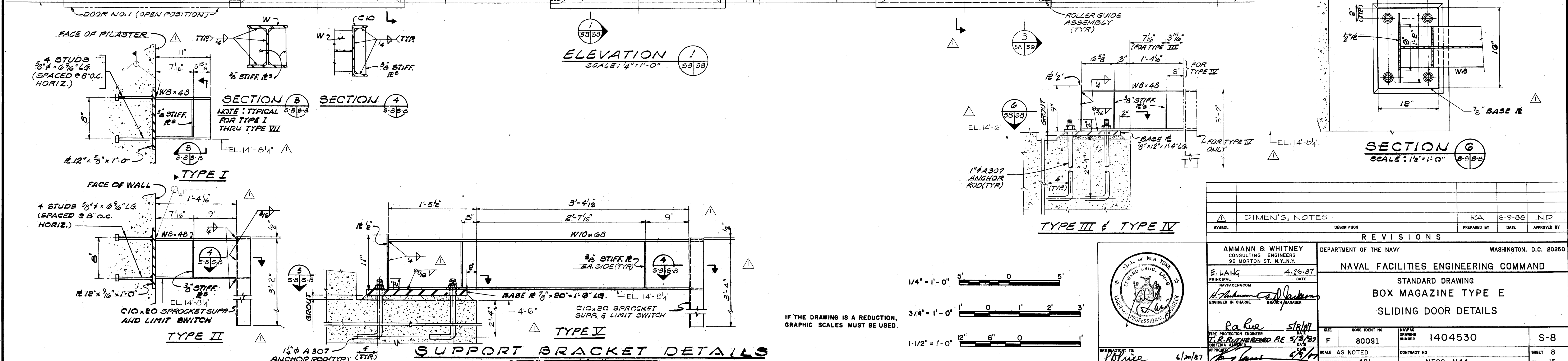
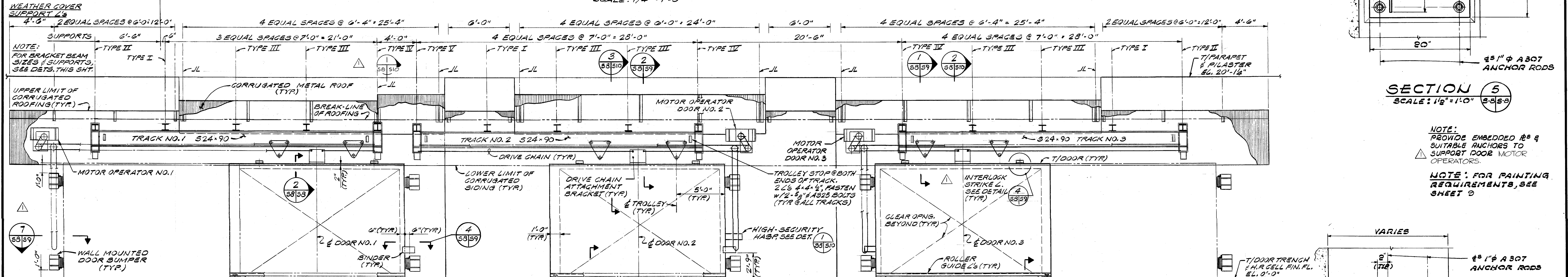
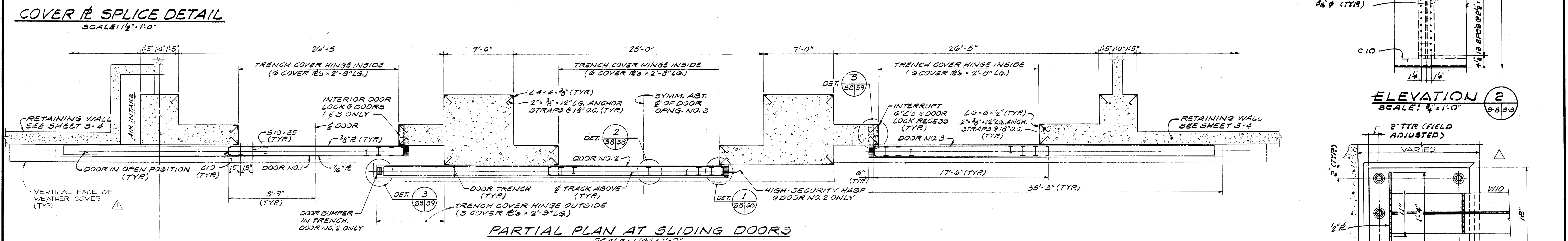
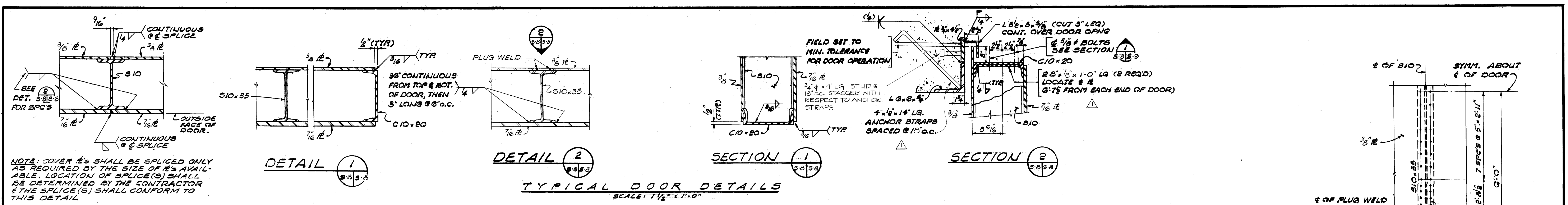
IF THE DRAWING IS A REDUCTION, GRAPHIC SCALE MUST BE USED



SECTION 7
SCALE: 1/2" = 1'-0"

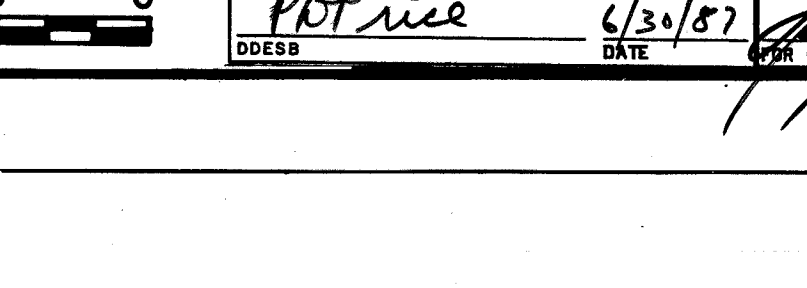
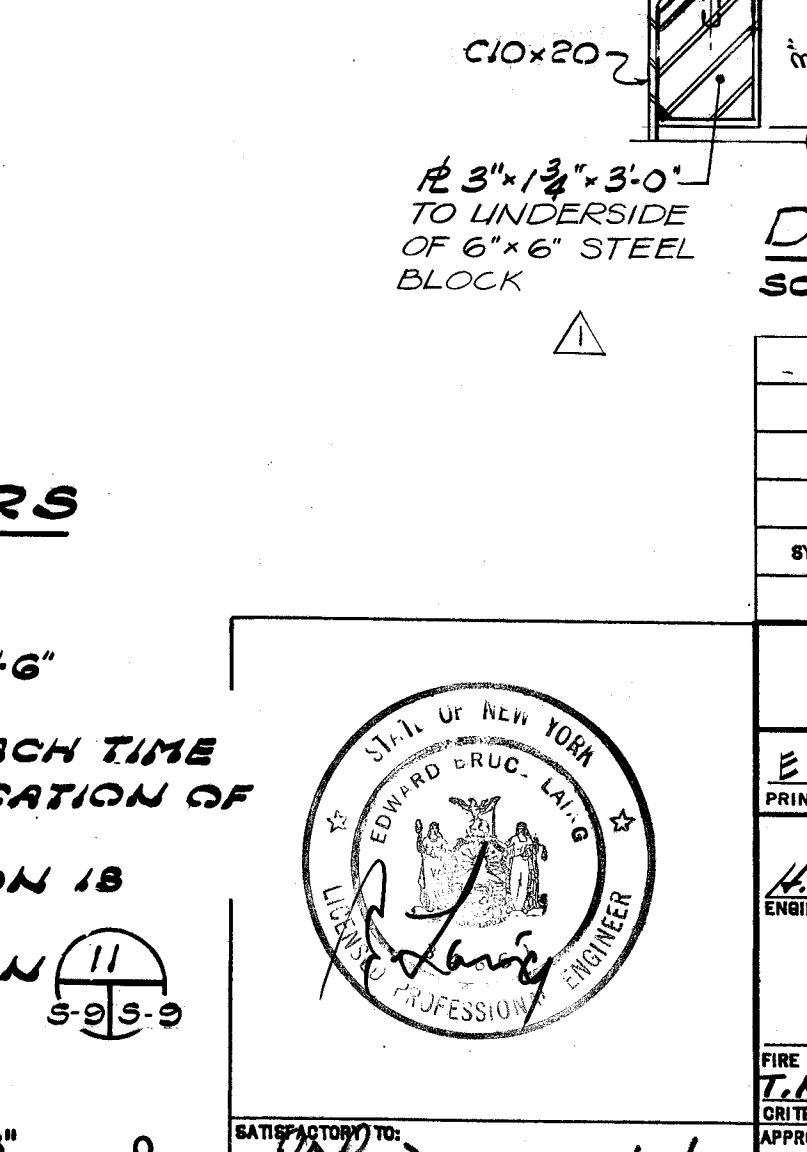
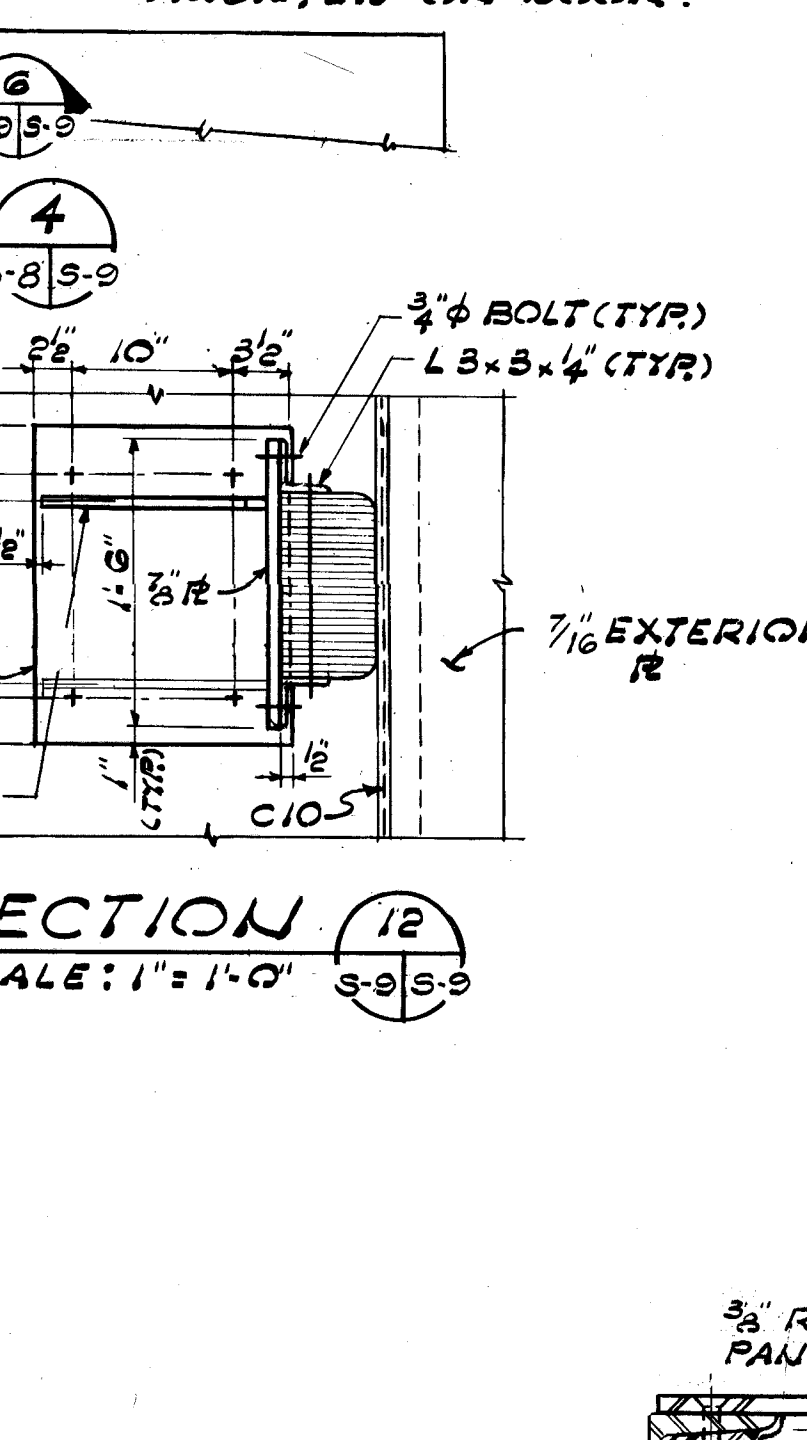
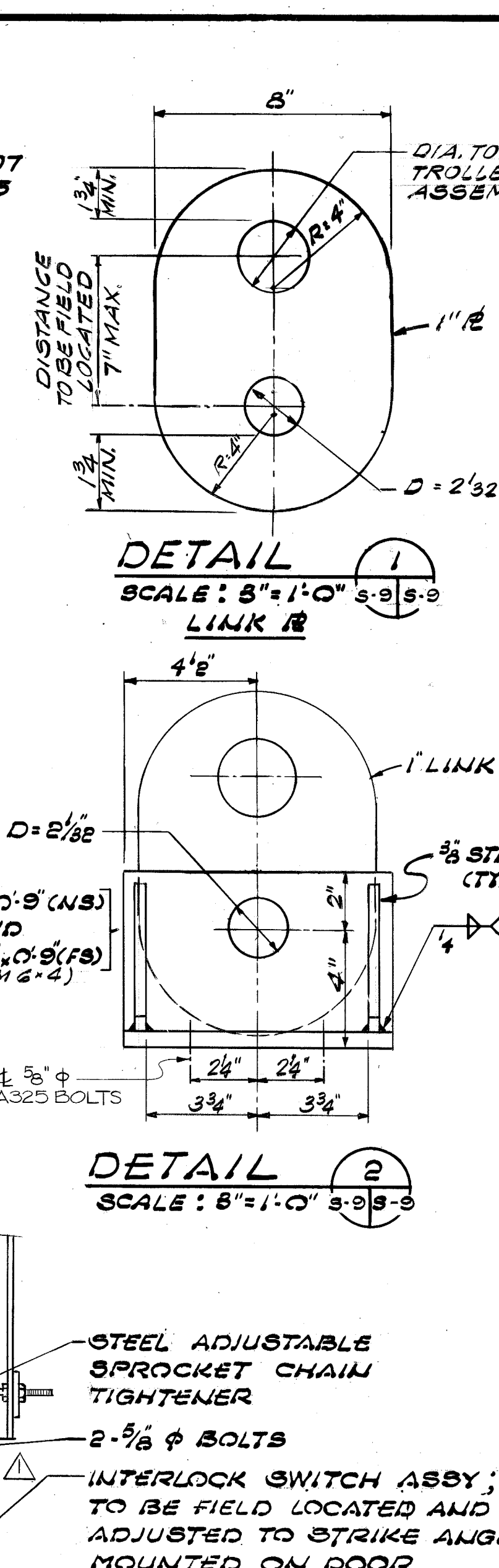
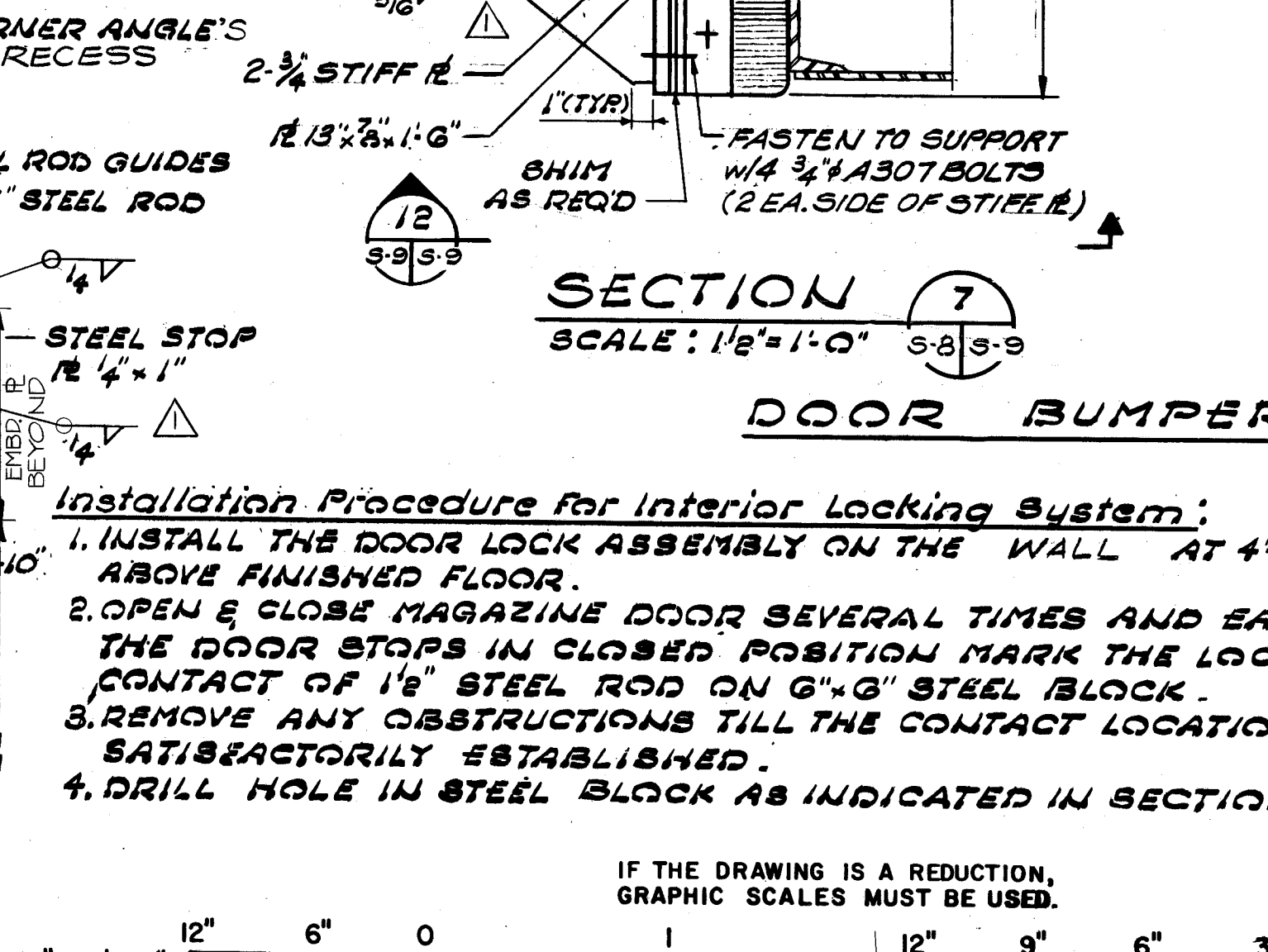
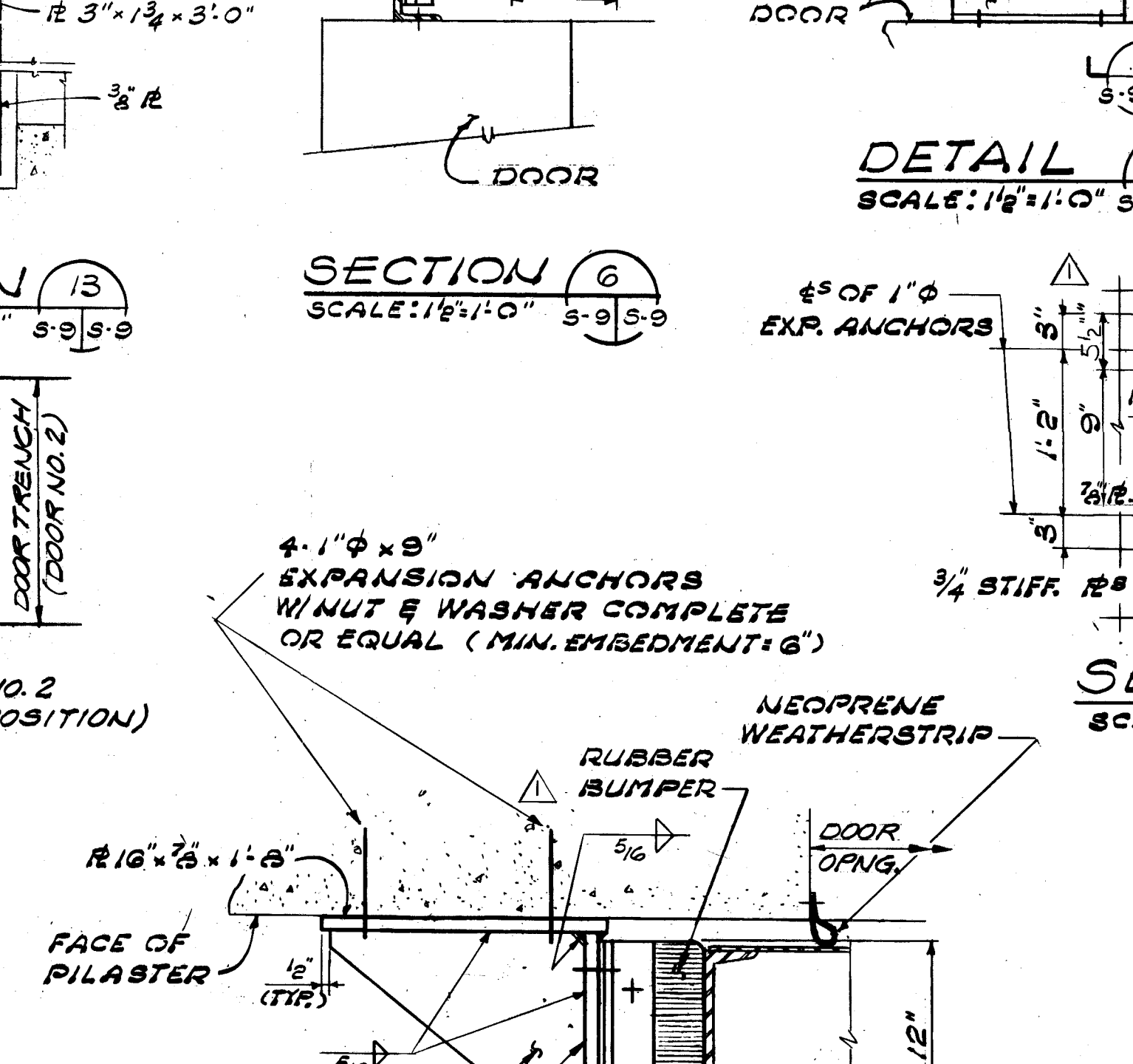
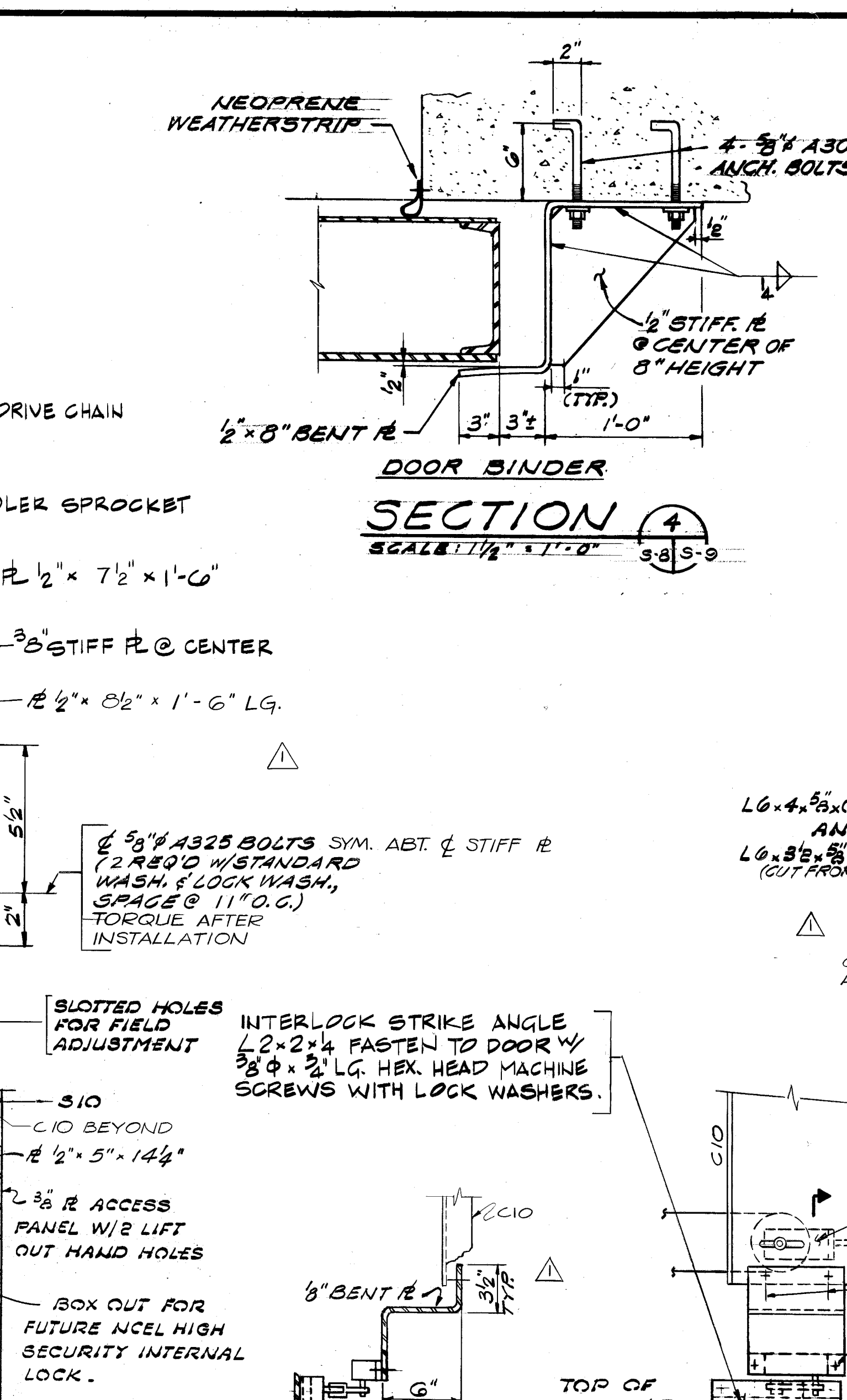
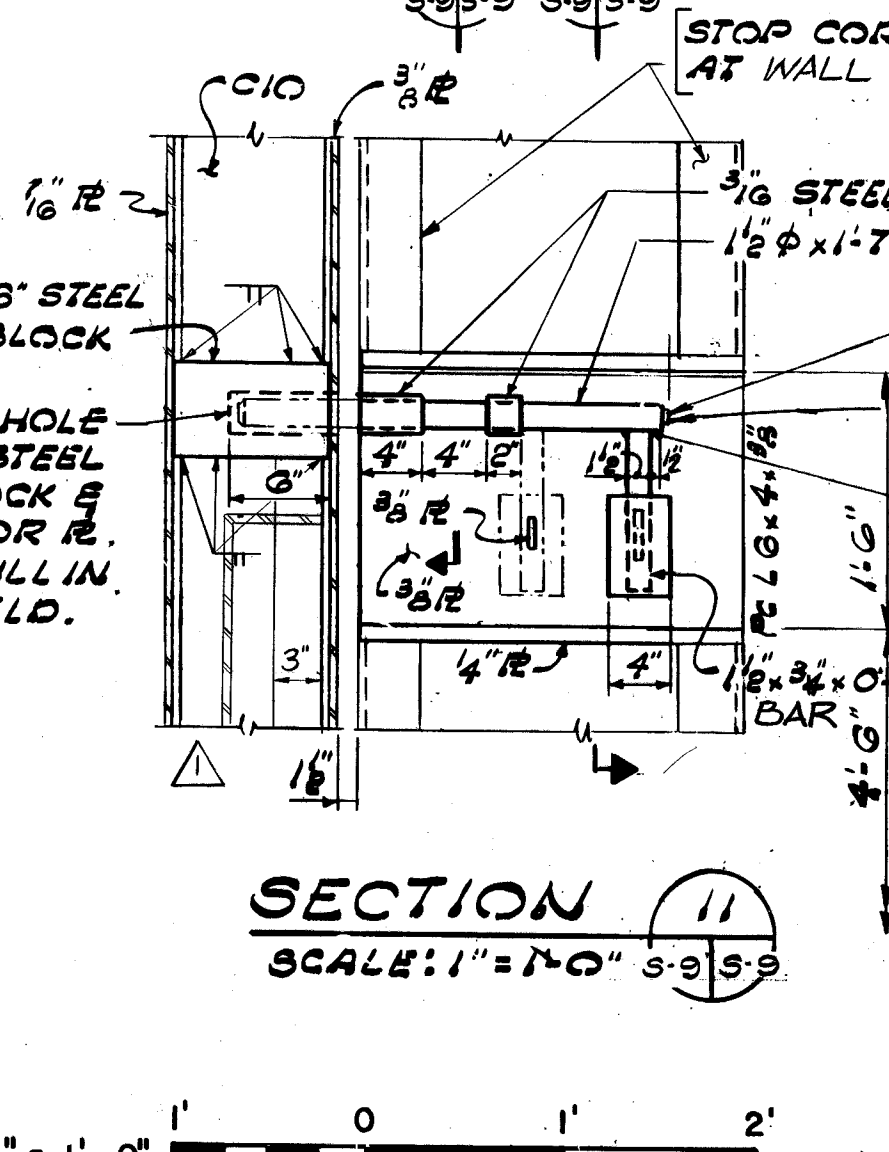
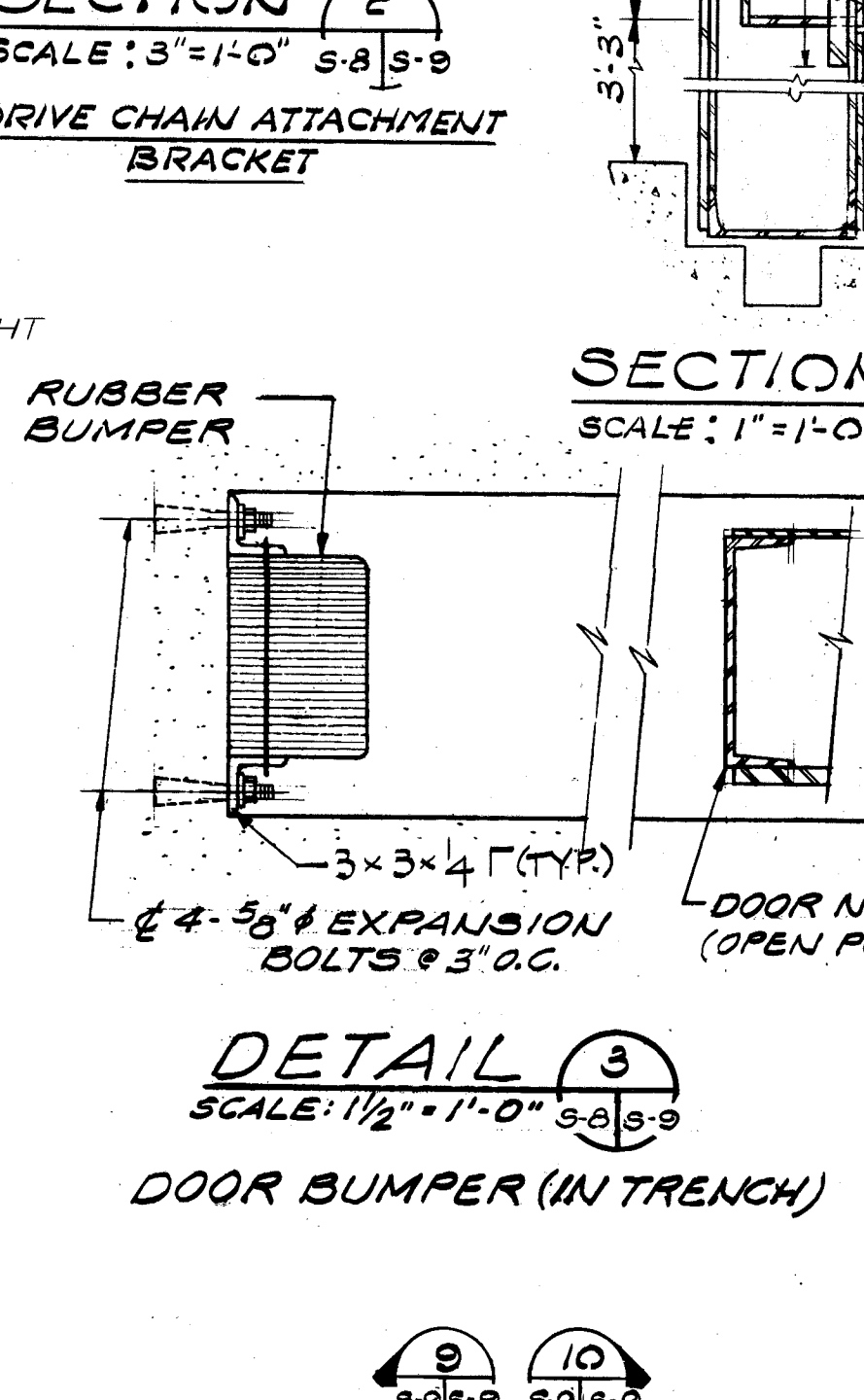
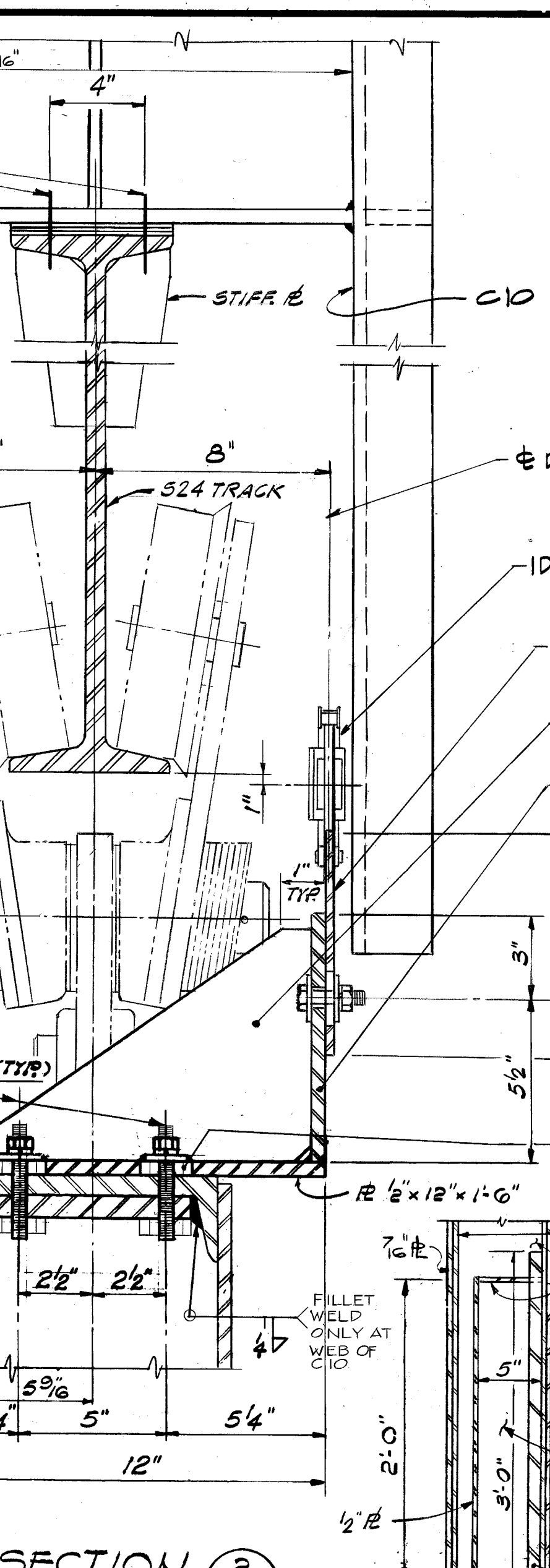
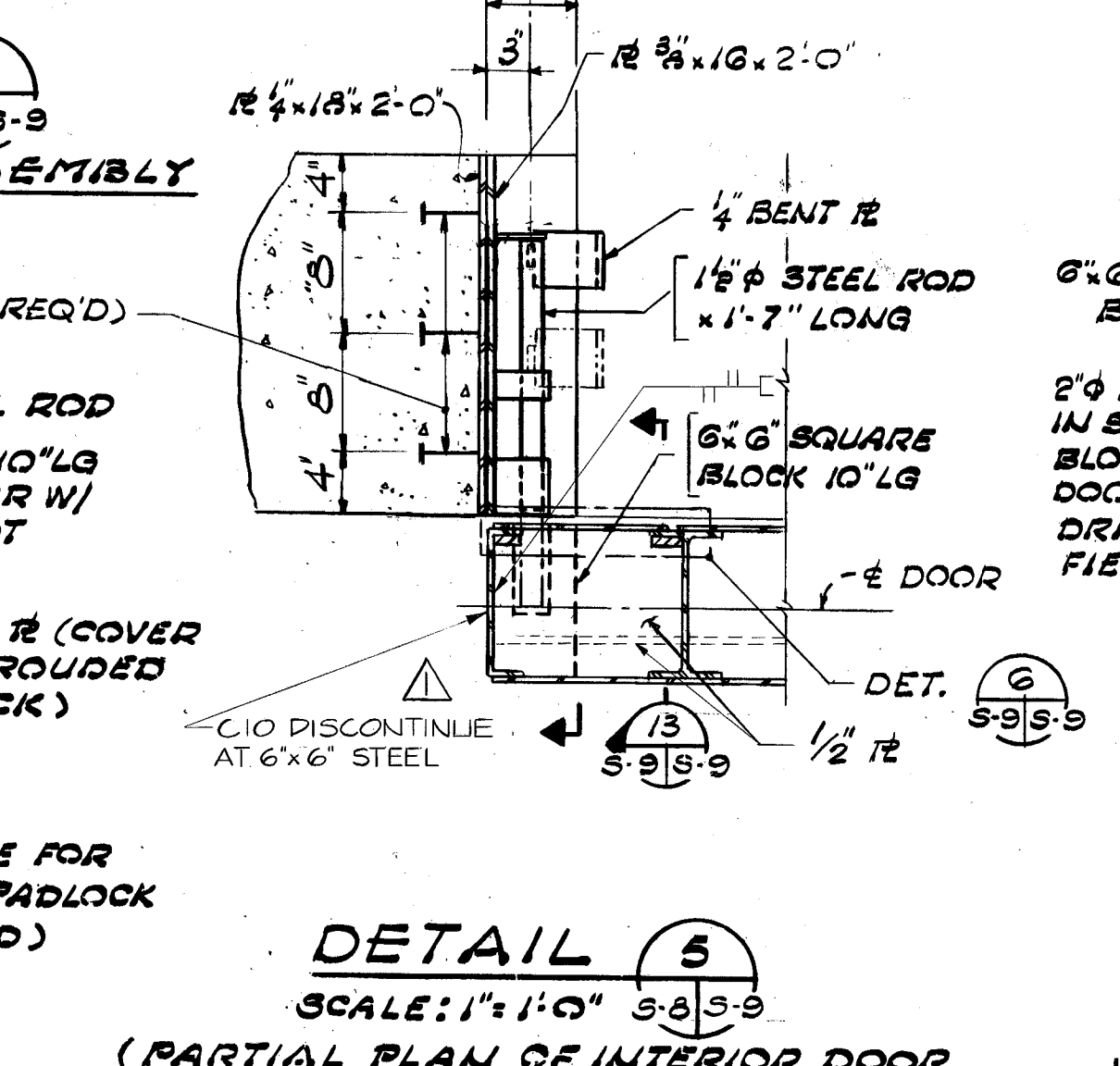
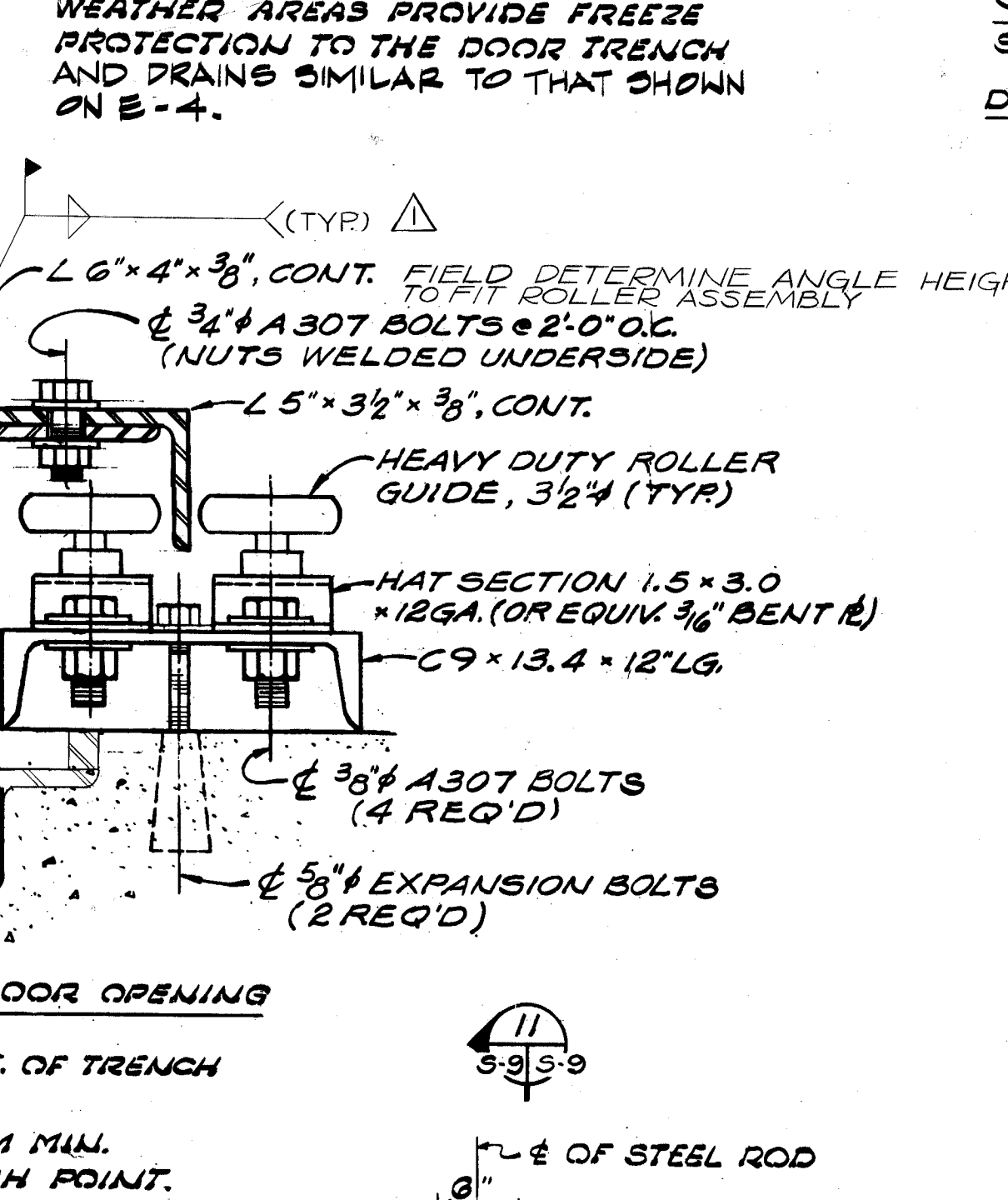
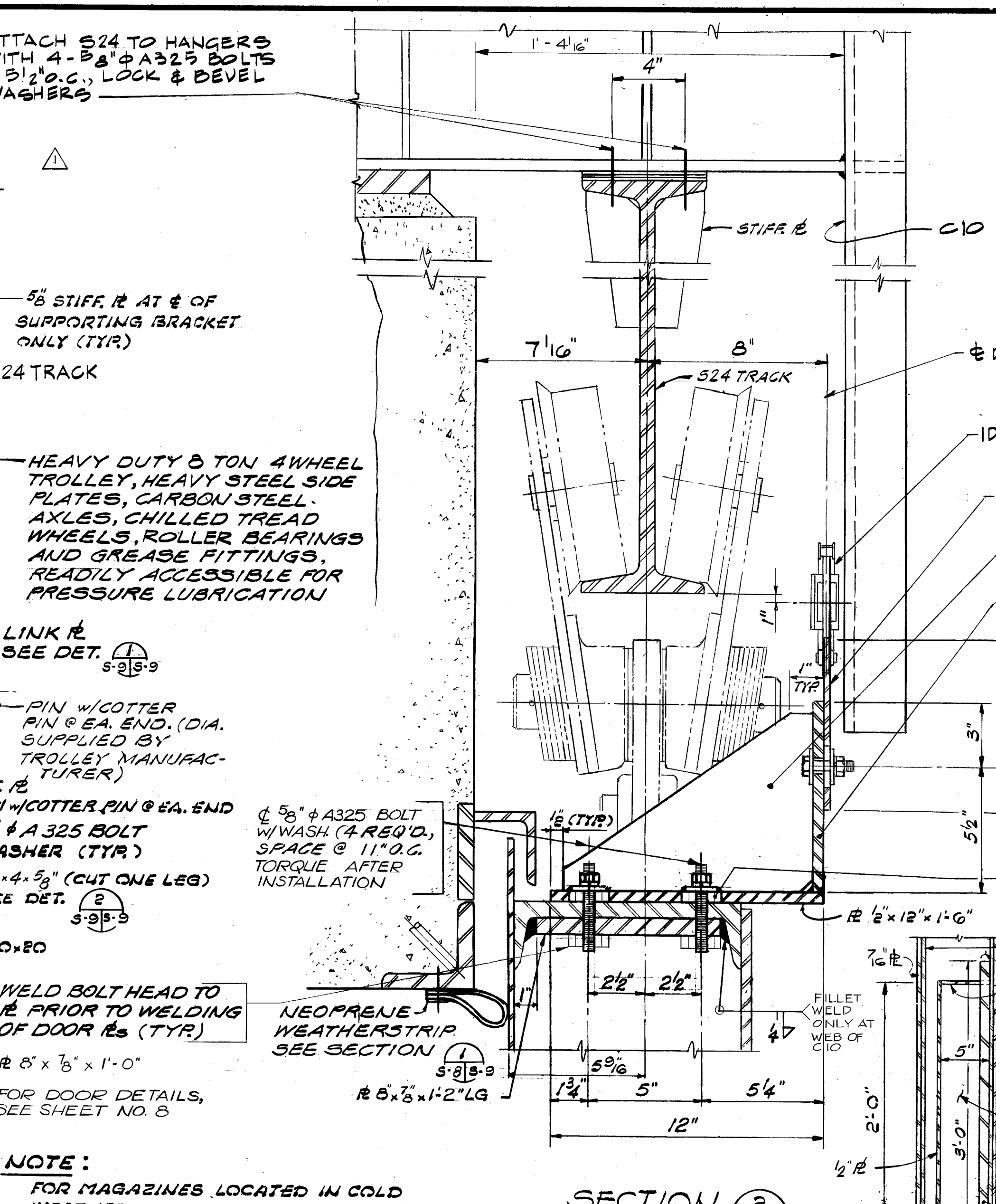
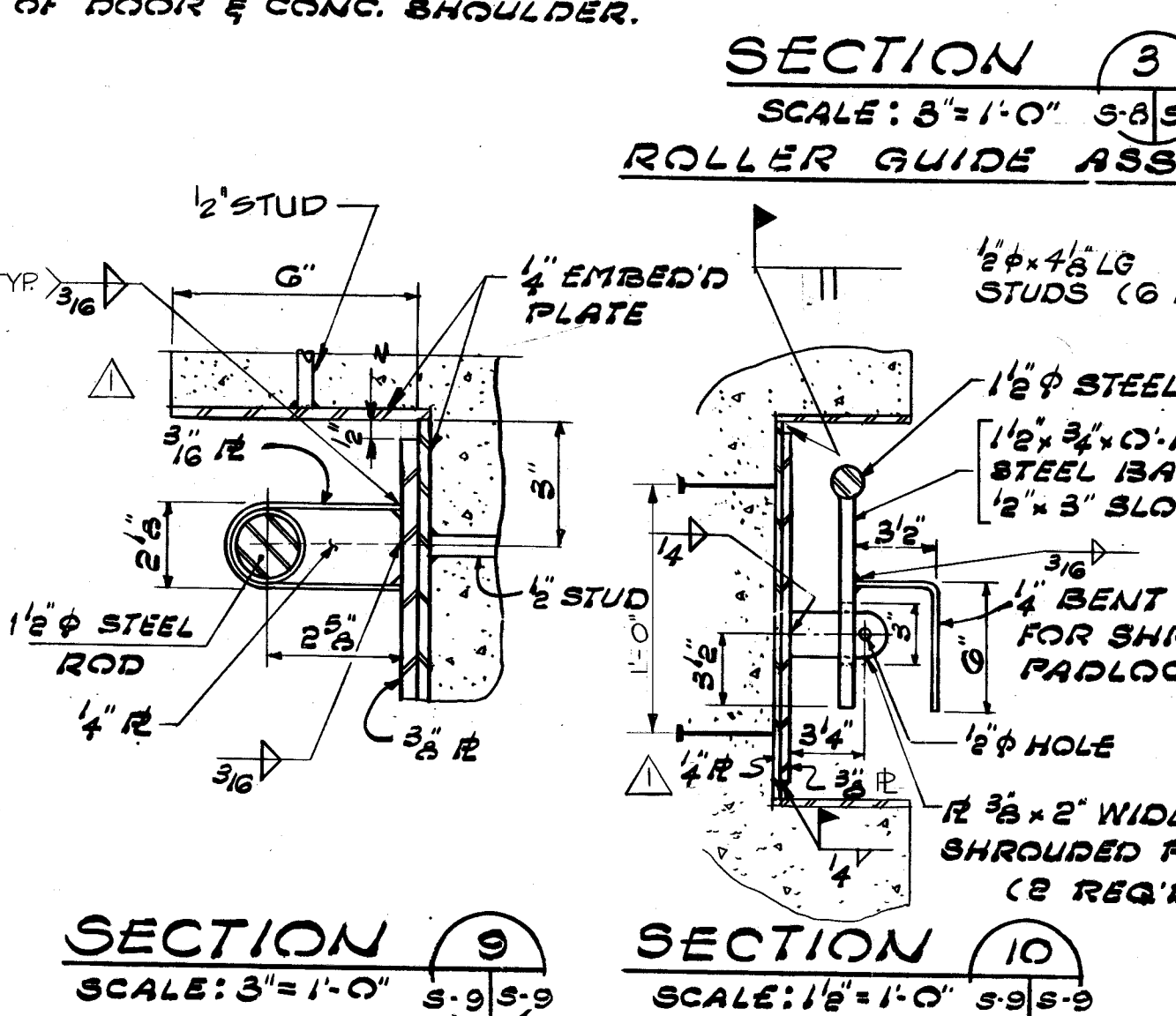
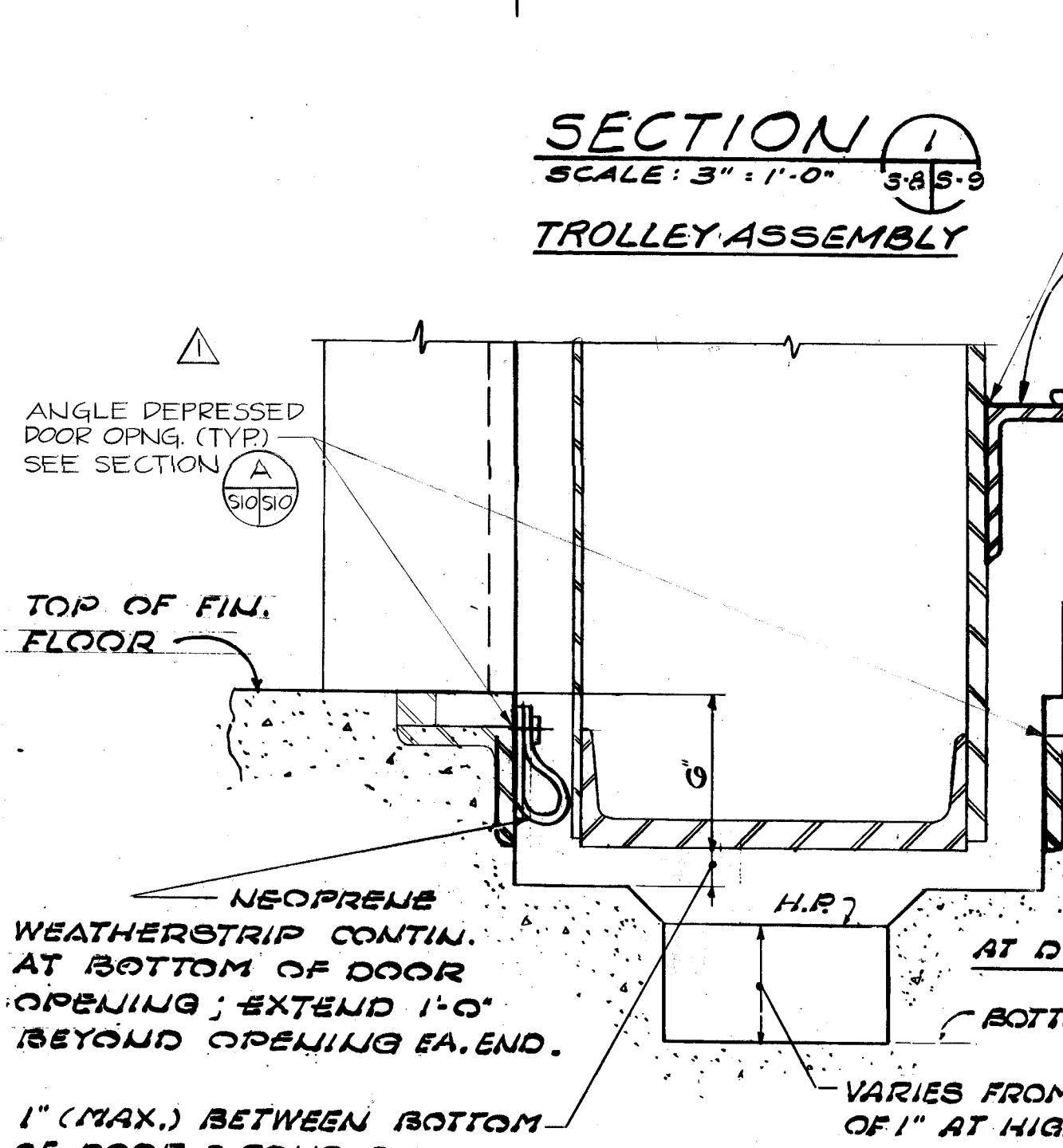
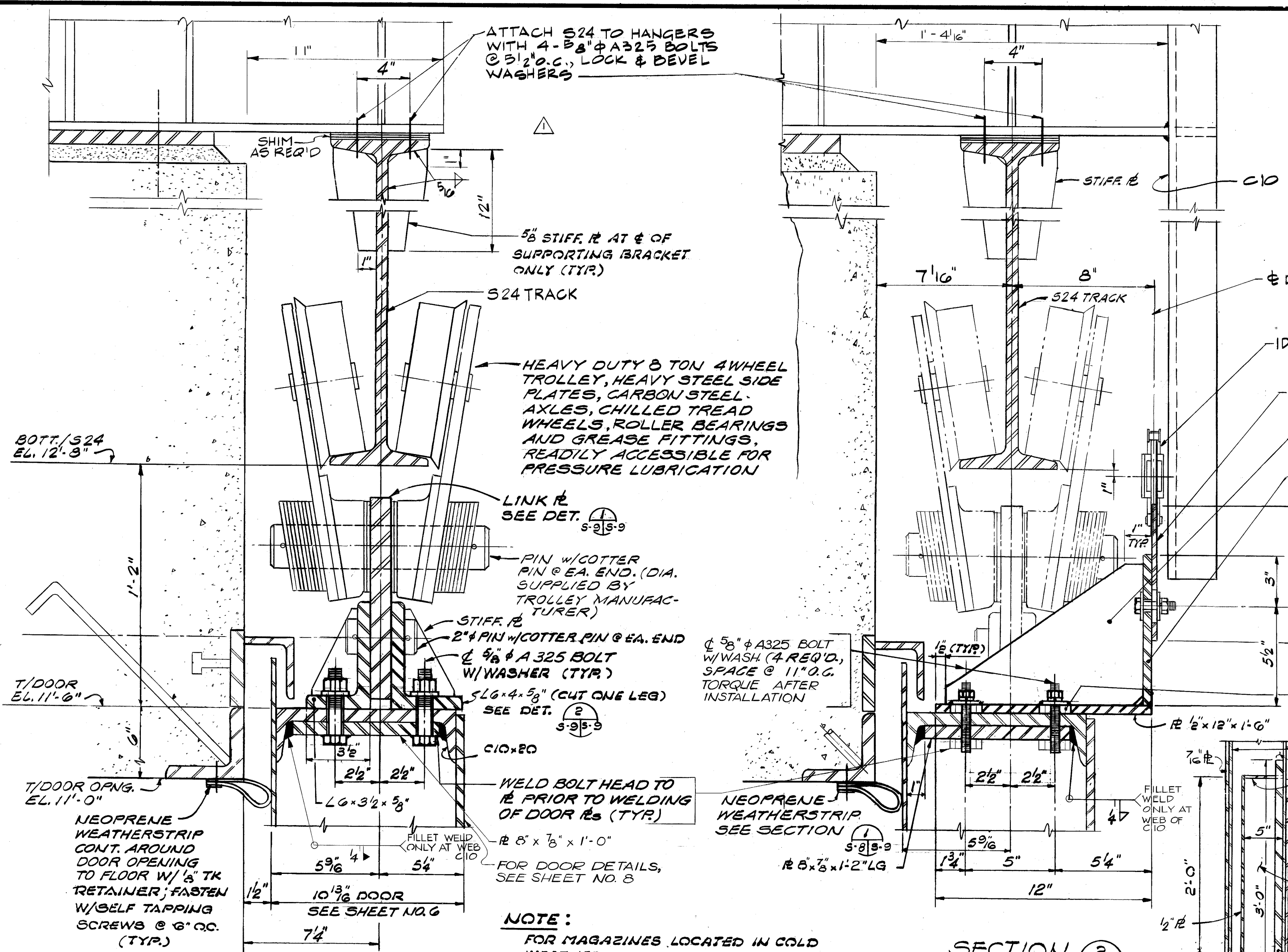


ADDED NOTE #2		REVISIONS	
SYMBOL	DESCRIPTION	PREPARED BY	DATE
△	ADDED NOTE #2	FJW	5-16-88
REVISIONS			
AMMANN & WHITNEY CONSULTING ENGINEERS 98 MORTON ST. N.Y., N.Y.		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350	
DRAWING DATE 4-29-87		NAVAL FACILITIES ENGINEERING COMMAND	
PRINCIPAL DATE		STANDARD DRAWING	
ENGINEER IN CHARGE DATE		BOX MAGAZINE TYPE E	
BRANCH MANAGER DATE		PILASTER & MISCELLANEOUS DETAILS	
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	
F	80091	1404529	S-7
SCALE AS NOTED	CONTRACT NO		SHEET 7
CATEGORY CODE 421	SPEC NO NFSS-M44		OF 15



DIMEN'S, NOTES		RA	6-9-88	ND
REVISIONS				
SYMBOL	DESCRIPTION	PREPARED BY	DATE	APPROVED BY

AMMANN & WHITNEY CONSULTING ENGINEERS 98 MORTON ST. N.Y., N.Y.		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20360		
E. LAING PRINCIPAL DATE 4-28-87		NAVAL FACILITIES ENGINEERING COMMAND		
R. R. RICE ENGINEER IN CHARGE DATE 6-11-87		STANDARD DRAWING BOX MAGAZINE TYPE E SLIDING DOOR DETAILS		
SCALE AS NOTED	CODE IDENT NO. 80091	NAVFAC DRAWING NUMBER 1404530	S-8	
DATE 6/28/87	CONTRACT NO.	OPNG NO. NFSS-M44	SHEET 8 OF 15	



NOTES:

DOOR REQUIREMENTS

- ALL DUST, DIRT, OIL, GREASE, WELD FLUX RESIDUE, SALTS, RUST SCALE, LOOSE PAINT & OTHER FOREIGN MATTER THAT MAY INHIBIT PAINT BOND TO STRUCTURAL STEEL SHALL BE REMOVED IN THE SHOP IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL (SSPC), SP-6.
- EXCEPT FOR CONTACT SURFACES OF MOVING PARTS ALL EXPOSED SURFACES OF STRUCTURAL STEEL SHALL RECEIVE ONE 1.5 MIL (DRY) COAT OF ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645. UNEXPOSED SURFACES SHALL RECEIVE 1.0 MIL (DRY) COAT OF ASPHALT VARNISH CONFORMING TO FEDERAL SPECIFICATION TT-V-51. ALL PRIMER COATING SHALL BE PERFORMED IN THE SHOP.
- ALL EXPOSED SURFACES OF STRUCTURAL STEEL SHALL RECEIVE TWO FIELD COATS OF PAINT WITH A MINIMUM THICKNESS OF 4.0 MIL (DRY) CONFORMING TO FEDERAL SPECIFICATION TT-P-102 OR TT-P-37.
- DOOR & HARDWARE SHALL BE SHOP ASSEMBLED TO INSURE PROPER CONTACT, CLEARANCES, ALIGNMENT & ENGAGEMENT OF THE DOORS & SMOOTH OPERATION OF LOCKING & DRIVE MECHANISMS. THIS ASSEMBLY WILL BE AT NO ADDITIONAL COST TO THE GOVERNMENT.
- ALL WEATHER STRIPPING SHALL BE CLOTH INSERTED NEOPRENE ONE-EIGHTH INCH (1/8") THICK, & CONFORMING TO THE FEDERAL SPECIFICATION HH-P-151.
- ALL PINS, BEARINGS, GEARS, SPROCKETS, SHAFTS AND SHEAVES SHALL BE DESIGNED FOR A DOOR LIFE OF 5000 HOURS OF OPERATION.

ELECTRICAL REQUIREMENTS

- ALL EQUIPMENT GROUNDING CONDUCTORS & STRAPS SHALL BE SIZED IN COMPLIANCE WITH THE NEC.
- GROUNDING CONDUCTORS SHALL BE PROVIDED WITH GREEN INSULATION EQUIVALENT TO THE INSULATION ON THE ASSOCIATED PHASE CONDUCTORS.
- FEEDER & BRANCH CIRCUIT GROUNDING CONDUCTORS SHALL BE SIZED TO THE GROUNDING BAR OR CONNECTED WITH APPROVED PRESSURE CONNECTORS.
- WIRING SHALL BE INSTALLED IN A RIGID CONDUIT.

DOOR OPERATOR REQUIREMENTS

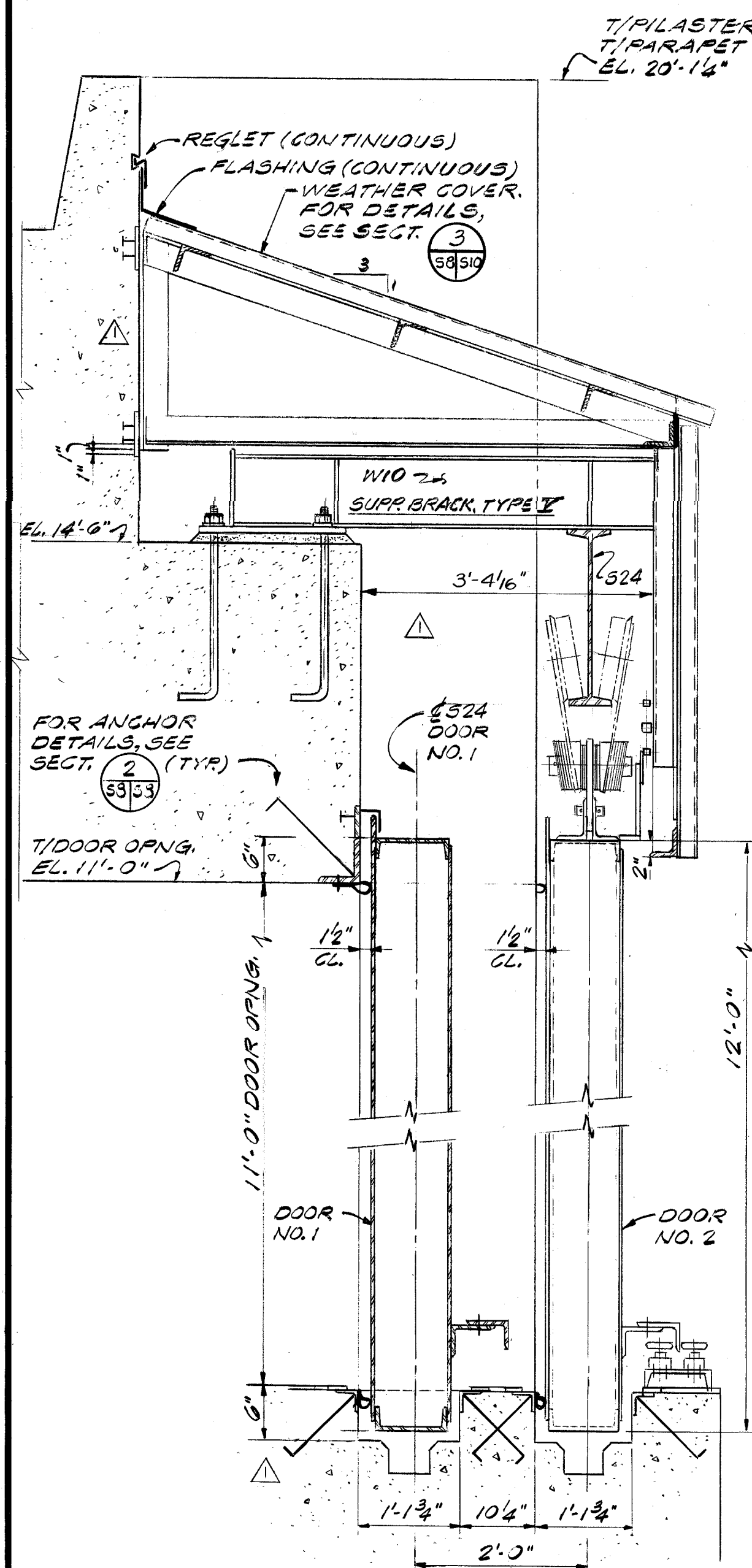
- DESIGN REQUIREMENTS - (a) OUTDOOR OPERATION (b) 80 PSF WIND LOAD, (c) 15 FPM VELOCITY FOR OPENING AND CLOSING DOORS.
- GEARS, SHAFTS AND SPROCKETS - ALL GEARS IN SPEED REDUCTION UNIT SHALL BE THE MACHINED TYPE. GEARS AND SHAFTS SHALL BE MOUNTED WITH LONG-LIFE BEARINGS, ENCLOSED IN OIL TIGHT HOUSING AND OPERATED AT ALL TIMES IN AN OIL BATH. ALL SPROCKETS SHALL BE FROM STEEL PLATES.
- CASTINGS - SHEAVES & OTHER CASTINGS SHALL BE CLOSE GRAINED ALLOYED GRAY CAST IRON.
- ROLLER CHAINS - ALL ROLLER CHAINS SHALL BE HEAVY DUTY, HIGH STRENGTH, PRECISION ASSEMBLED, AND DESIGNED FOR A SAFETY FACTOR OF 5.
- MOTOR - THE MOTOR SHALL OPERATE NORMALLY AT NO MORE THAN 75 PERCENT OF RATED CAPACITY.
- LIMIT SWITCHES - TYPE: MECHANICALLY ACTUATED. LIMIT SWITCH SHALL STOP THE DOOR AT END OF TRAVEL (OPEN AND CLOSED POSITIONS).
- PUSH BUTTON STATION - PUSH BUTTON UNIT SHALL BE A CONSTANT PRESSURE, HEAVY DUTY WEATHER PROOF CONTROL STATION.
- EMERGENCY OPERATION - PROVIDE A CHAIN-GEAR MECHANISM FOR MANUAL OPERATION OF THE DOOR IN THE EVENT OF AN ELECTRICAL FAILURE. A MOTOR DISCONNECT, USING A MECHANICAL DEVICE, SHALL BE PROVIDED FOR EMERGENCY OPERATION.

REVISIONS			
SYMBOL	DESCRIPTION	PREPARED BY	DATE
	REV DIM. FROM 7/4" TO 7/16" IN SECT. I	FJW	5/16/88

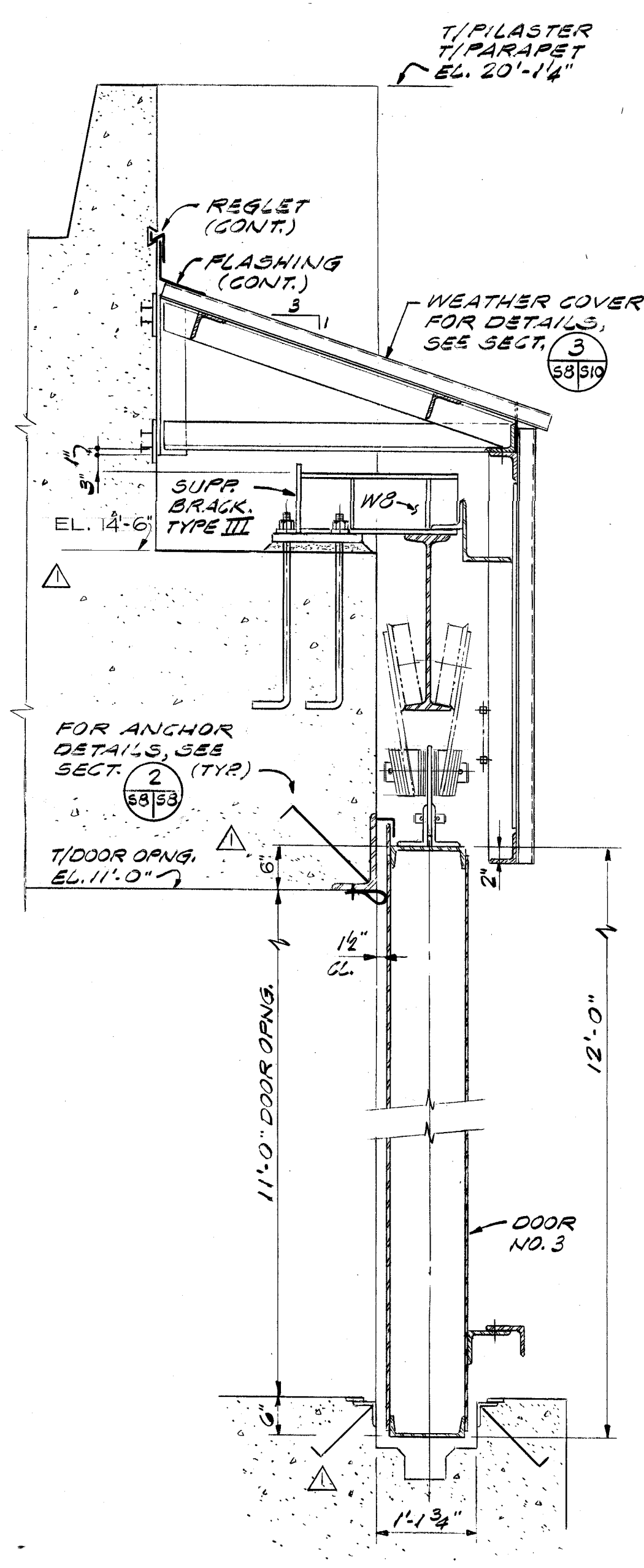
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST. N.Y.N.Y.		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20380	
E. LAING DATE: 4-22-87		NAVAL FACILITIES ENGINEERING COMMAND	
T.R. R. THORNTON DATE: 5/16/87		STANDARD DRAWING	
R. A. BROS DATE: 5/16/87		BOX-MAGAZINE TYPE E	
P. A. BROS DATE: 5/16/87		SLIDING DOOR DETAILS	
NO. 80091	DATE: 5/16/87	NO. 1404531	S-9
SCALE AS NOTED	CONTRACT NO.	CATEGORY CODE 421	SPIC NO NFSS-M44

Installation Procedure for Interior Locking System:

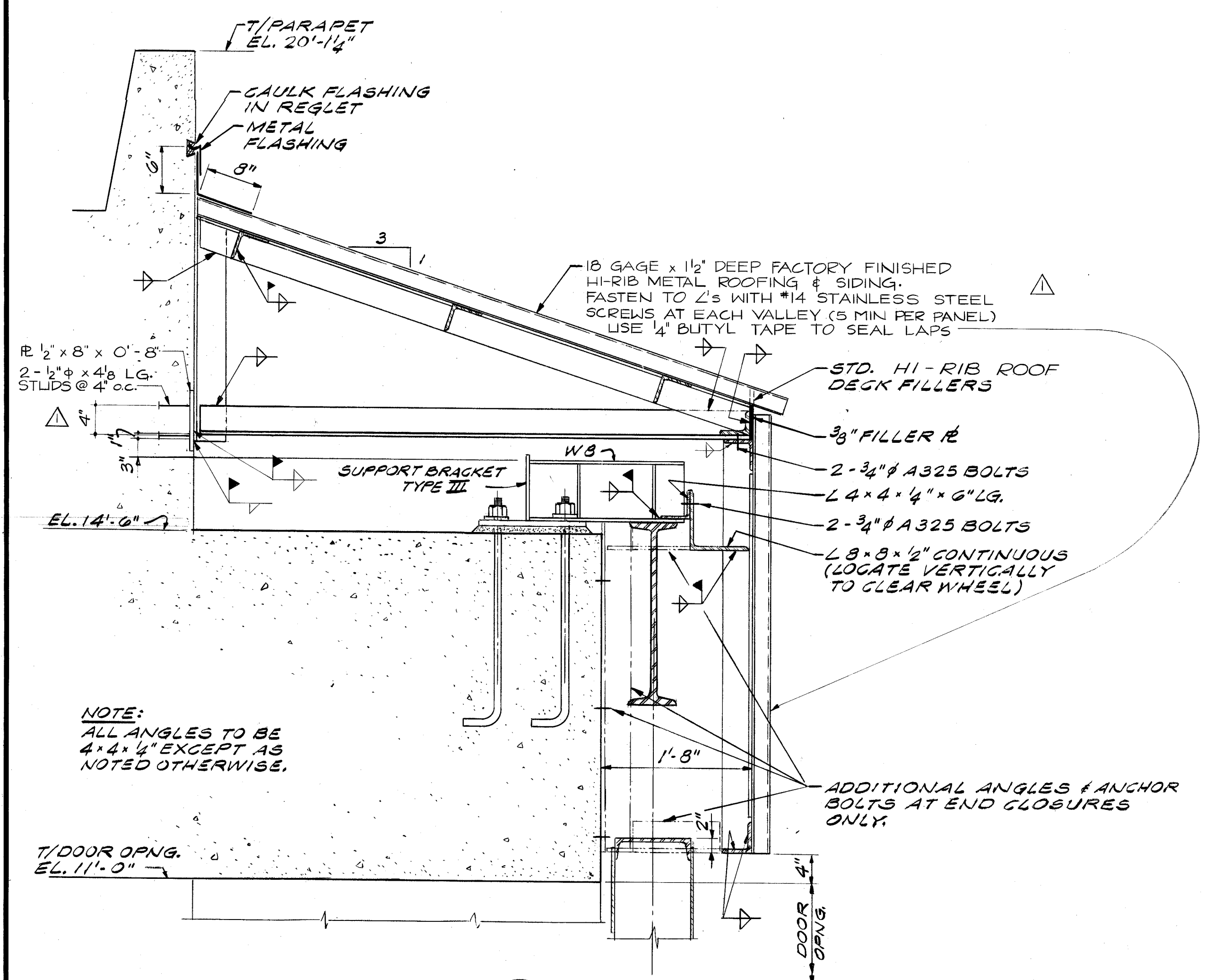
- INSTALL THE DOOR LOCK ASSEMBLY ON THE WALL AT 4'-6" ABOVE FINISHED FLOOR.
- OPEN & CLOSE MAGAZINE DOOR SEVERAL TIMES AND EACH TIME THE DOOR STOPS IN CLOSED POSITION MARK THE LOCATION OF CONTACT OF 1/2" STEEL ROD ON 6"x6" STEEL BLOCK.
- REMOVE ANY OBSTRUCTIONS TILL THE CONTACT LOCATION IS SATISFACTORILY ESTABLISHED.
- DRILL HOLE IN STEEL BLOCK AS INDICATED IN SECTION 11.



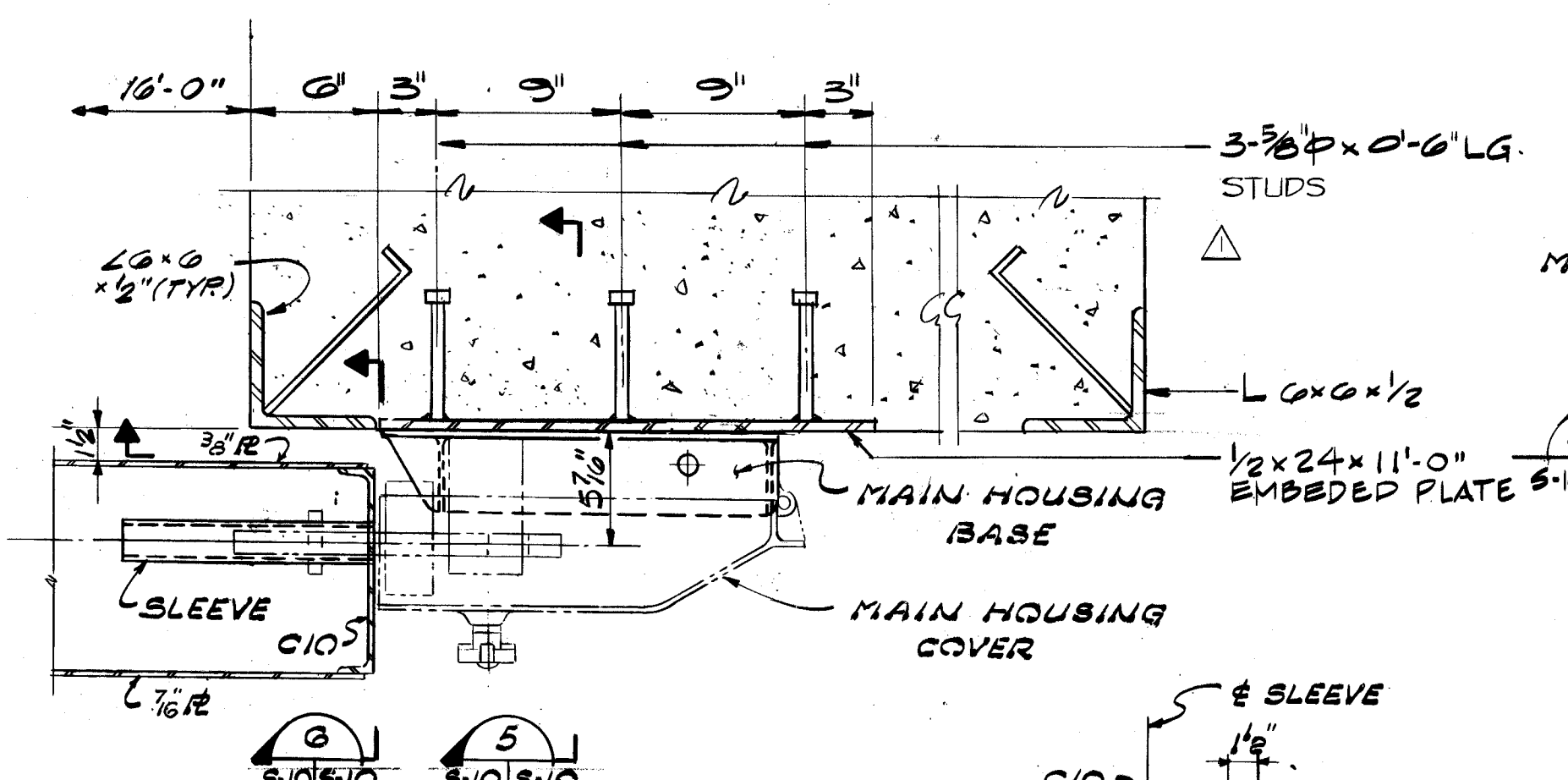
SECTION 1
SCALE: 3/4" = 1'-0"
53/510



SECTION 2
SCALE: 3/4" = 1'-0"
53/510

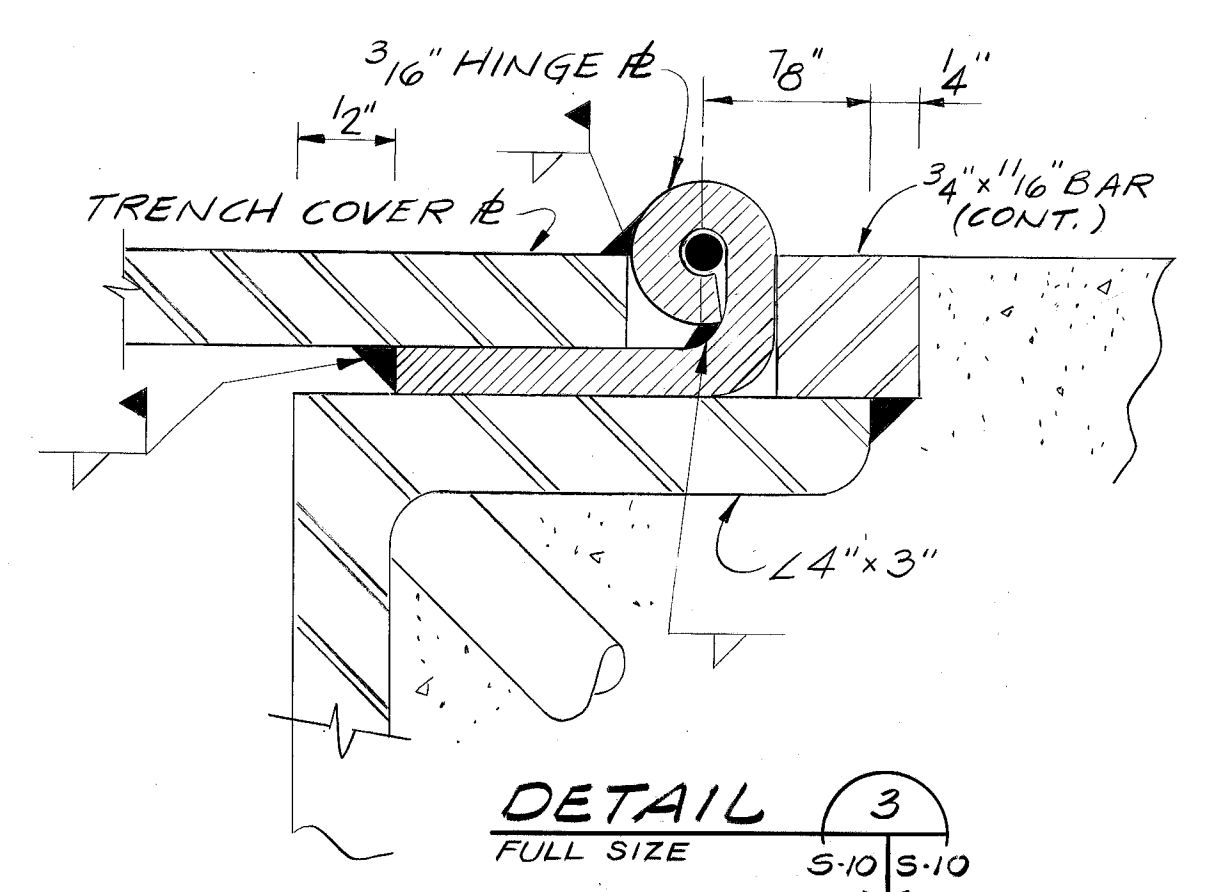


SECTION 3
SCALE: 1" = 1'-0"
53/510



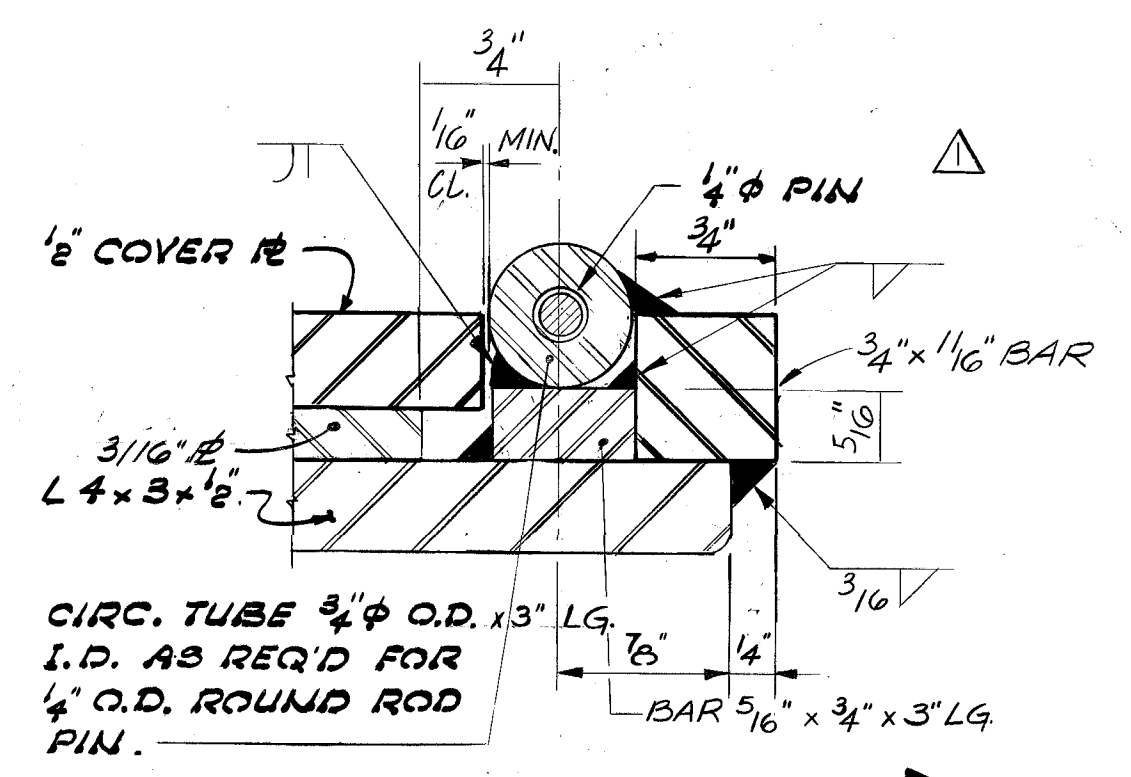
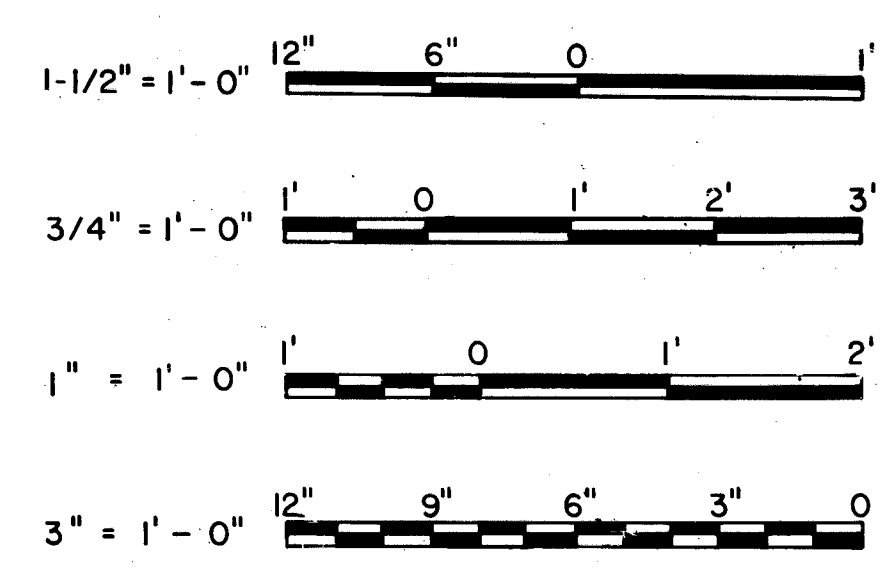
DETAIL 1
HIGH SECURITY HASP (NAPEC 1332)
SCALE: 1 1/2" = 1'-0"
5-10/5-10

SECTION 6
SCALE: 1 1/2" = 1'-0"
5-10/5-10

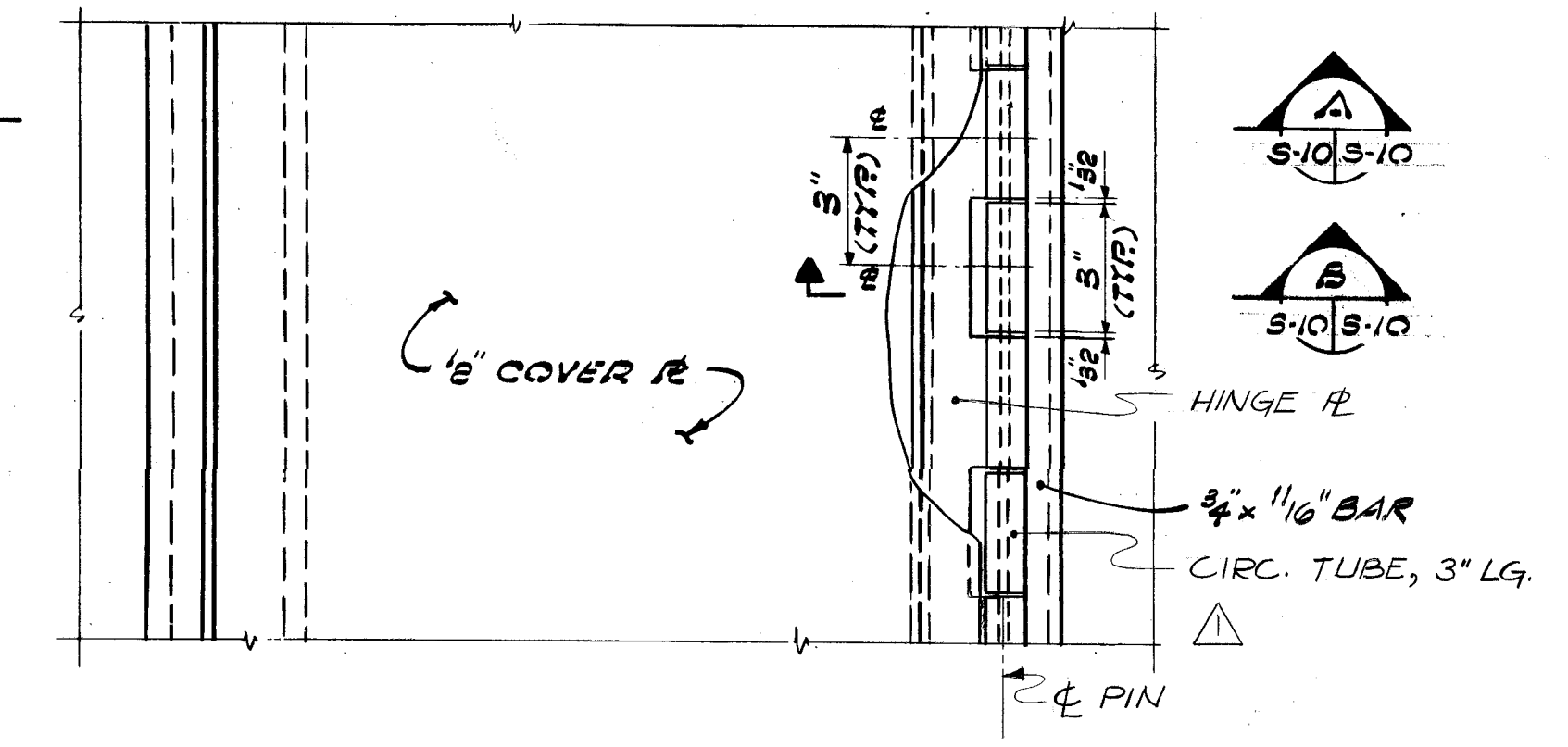


DETAIL 3
FULL SIZE
5-10/5-10

IF THE DRAWING IS A REDUCTION,
GRAPHIC SCALE MUST BE USED

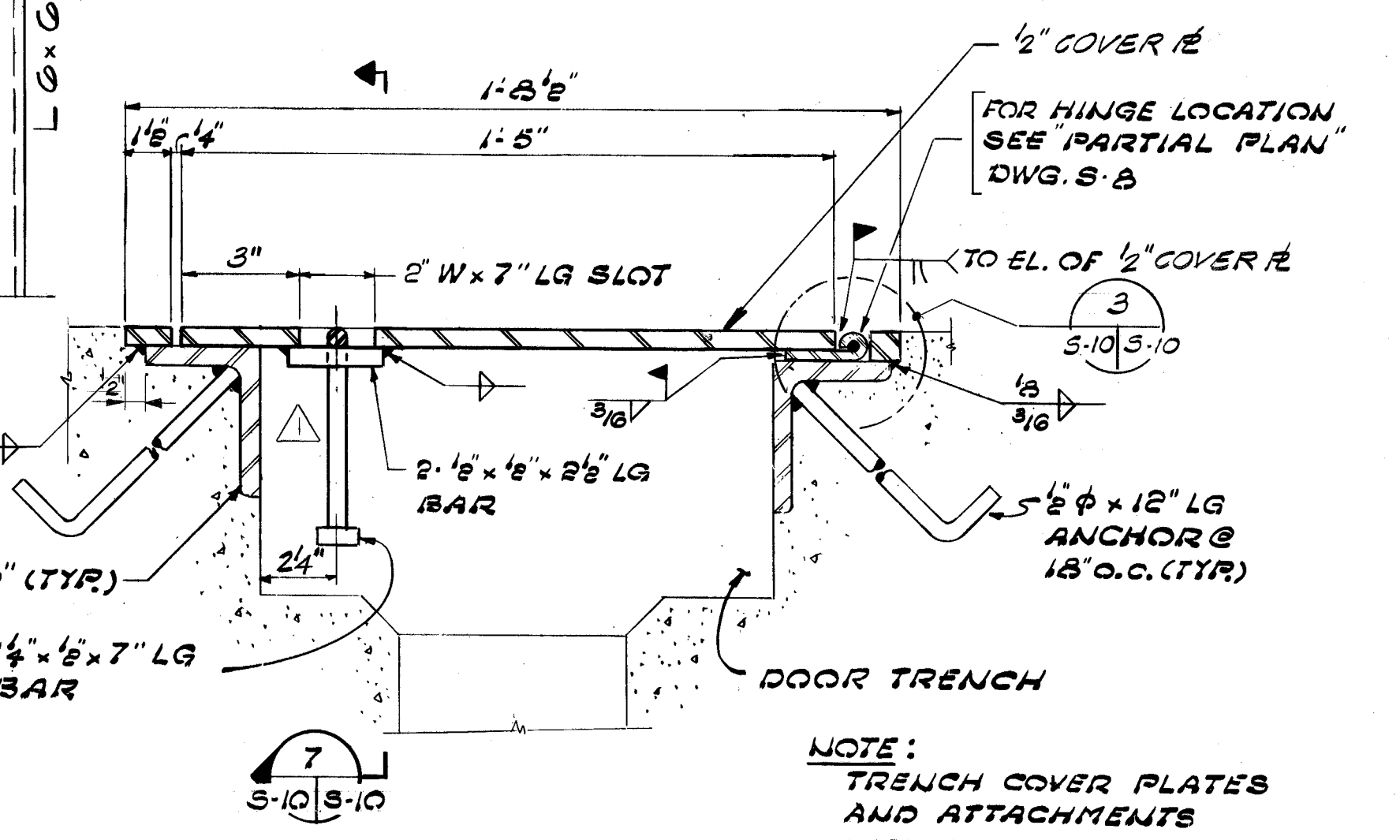


DETAIL 2
NTS
5-10/5-10

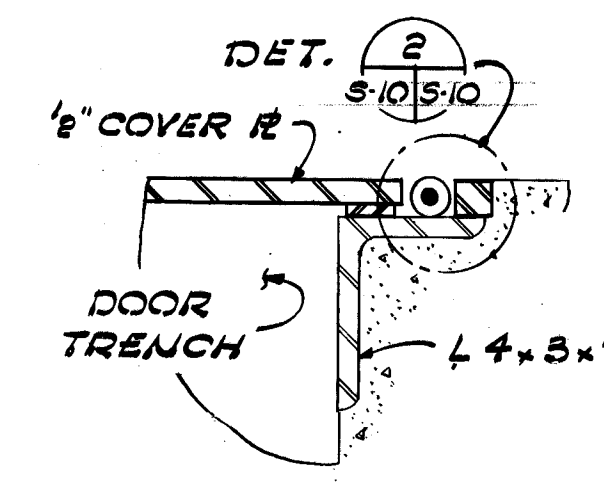


PARTIAL PLAN
(DOOR TRENCH COVER PLATES)
SCALE: 3" = 1'-0"

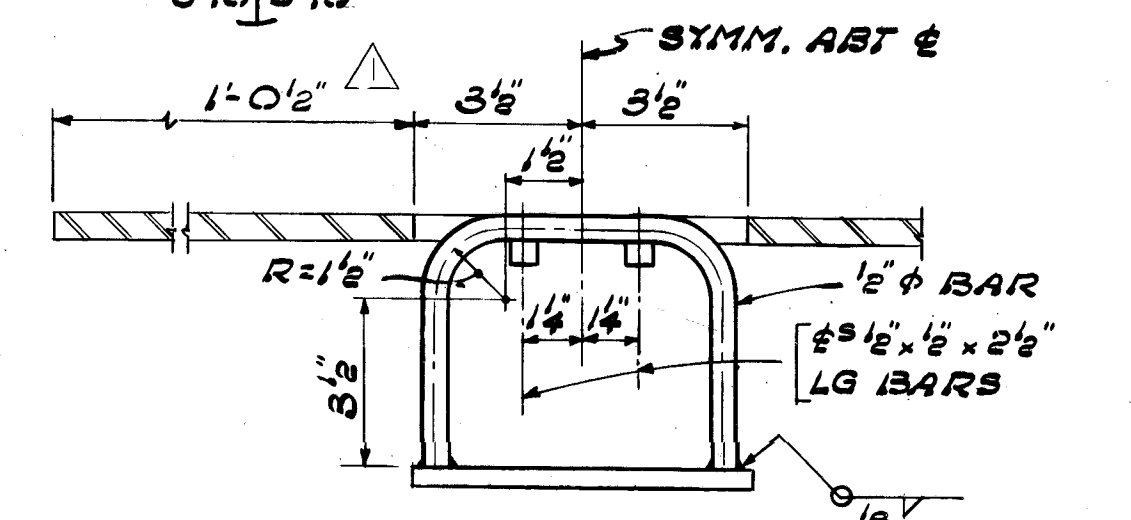
SECTION 4
SCALE: 1 1/2" = 1'-0"
5-10/5-10



SECTION A
SCALE: 3" = 1'-0"
5-10/5-10



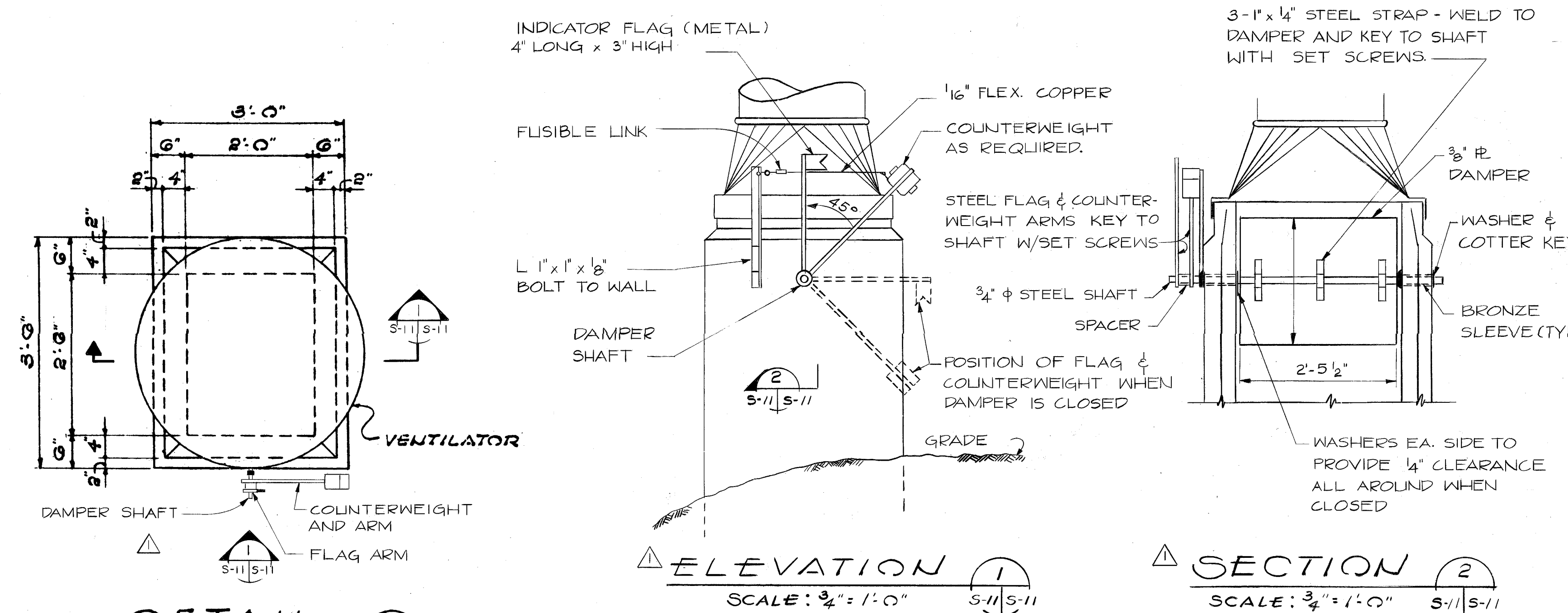
SECTION B
SCALE: 3" = 1'-0"
5-10/5-10



SECTION 7
SCALE: 3" = 1'-0"
5-10/5-10

NOTE:
HIGH SECURITY HASP ON DOOR #2 SHALL BE NAPEC 1332 UNIVERSAL HASP, GOVT FURNISHED & SHALL BE INSTALLED IN ACCORDANCE WITH NAVAMPROENGCEP PUBLICATION "STANDARD PLANS FOR HIGH SECURITY HASPS AND INTRUDER DETECTION SYSTEMS ABOARD" INSTALLATION PROCEDURE FOR THE HASP SHALL FOLLOW STEPS 1 THRU 8 LISTED ON NAPEC STANDARD DWGS 1446.

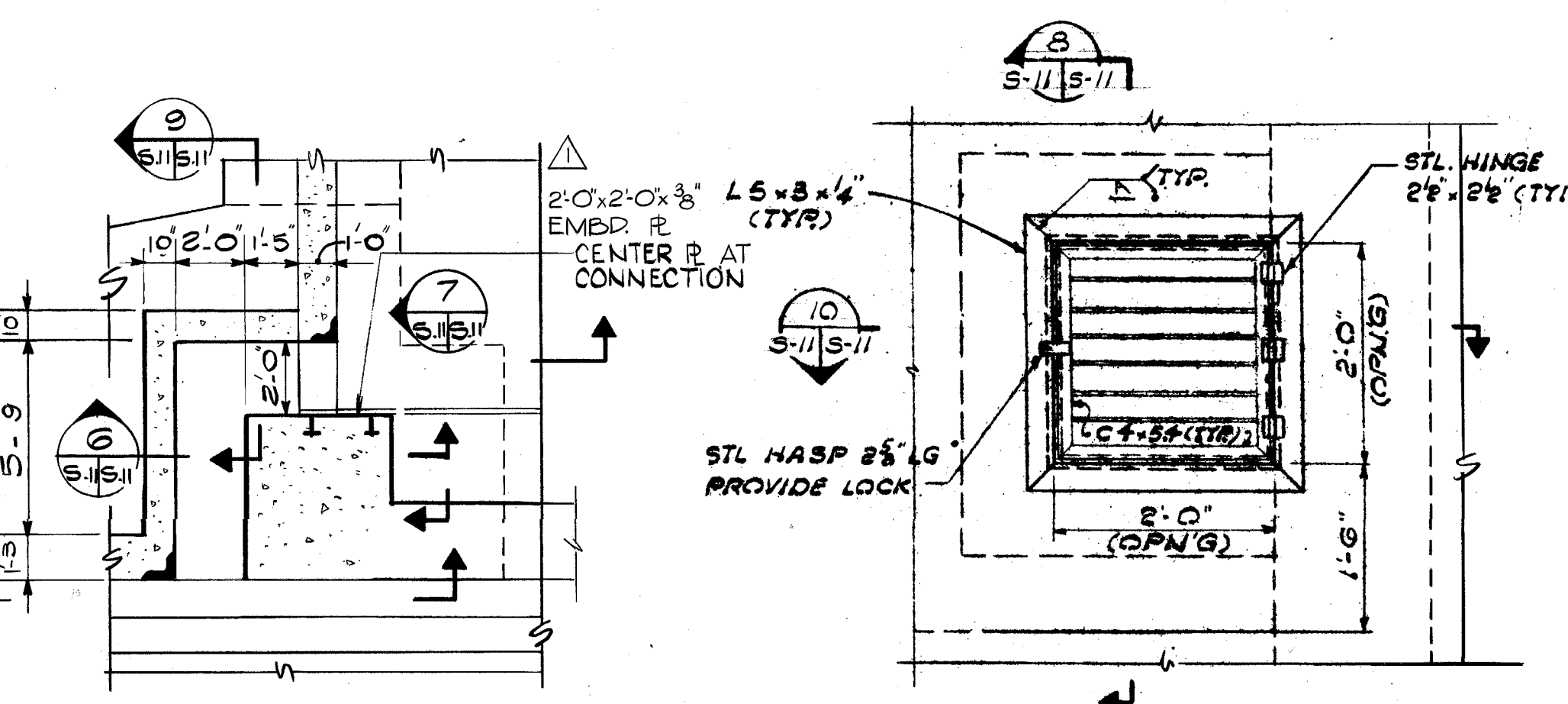
REVISIONS		DEPARTMENT OF THE NAVY		WASHINGTON, D.C. 20360	
SYMBOL	DESCRIPTION	PREPARED BY	DATE	APPROVED BY	
△	GENERAL REVISION	DGC	12-21-90		
REVISIONS					
AMMANN & WHITNEY CONSULTING ENGINEERS 36 MORTON ST., N.Y., N.Y.		NAVAL FACILITIES ENGINEERING COMMAND			
E. L. LING PRINCIPAL DATE: 4-19-87		STANDARD DRAWING			
NAVFACENGCOM ENGINEER IN CHARGE		BOX MAGAZINE TYPE E			
R. A. RICE FIRE PROTECTION ENGINEER DATE: 5/16/87		SLIDING DOOR DETAILS			
T. R. RUTHERFORD DATE: 6/21/87		SIZE: F	CODE IDENT NO: 80091	NAVFAC DRAWING NUMBER: 1404532	S-10
DATE: 6/21/87		SCALE: AS NOTED	CONTRACT NO:	SPEC NO: NFSS-M44	SHEET 10 OF 15
DATE: 6/21/87		CATEGORY CODE: 421			



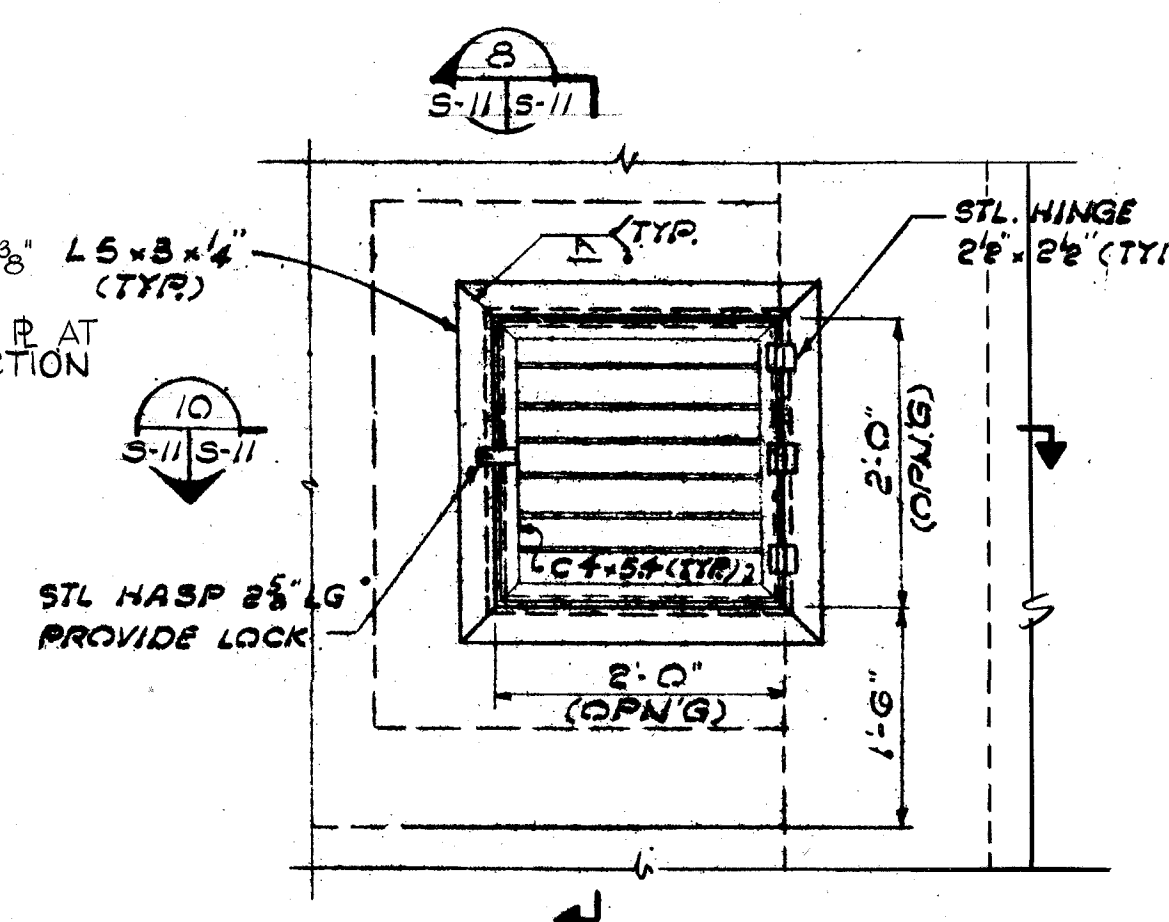
DETAIL 1
SCALE: 3/4" = 1'-0" S-11 S-11

ELEVATION 1
SCALE: 3/4" = 1'-0" S-11 S-11

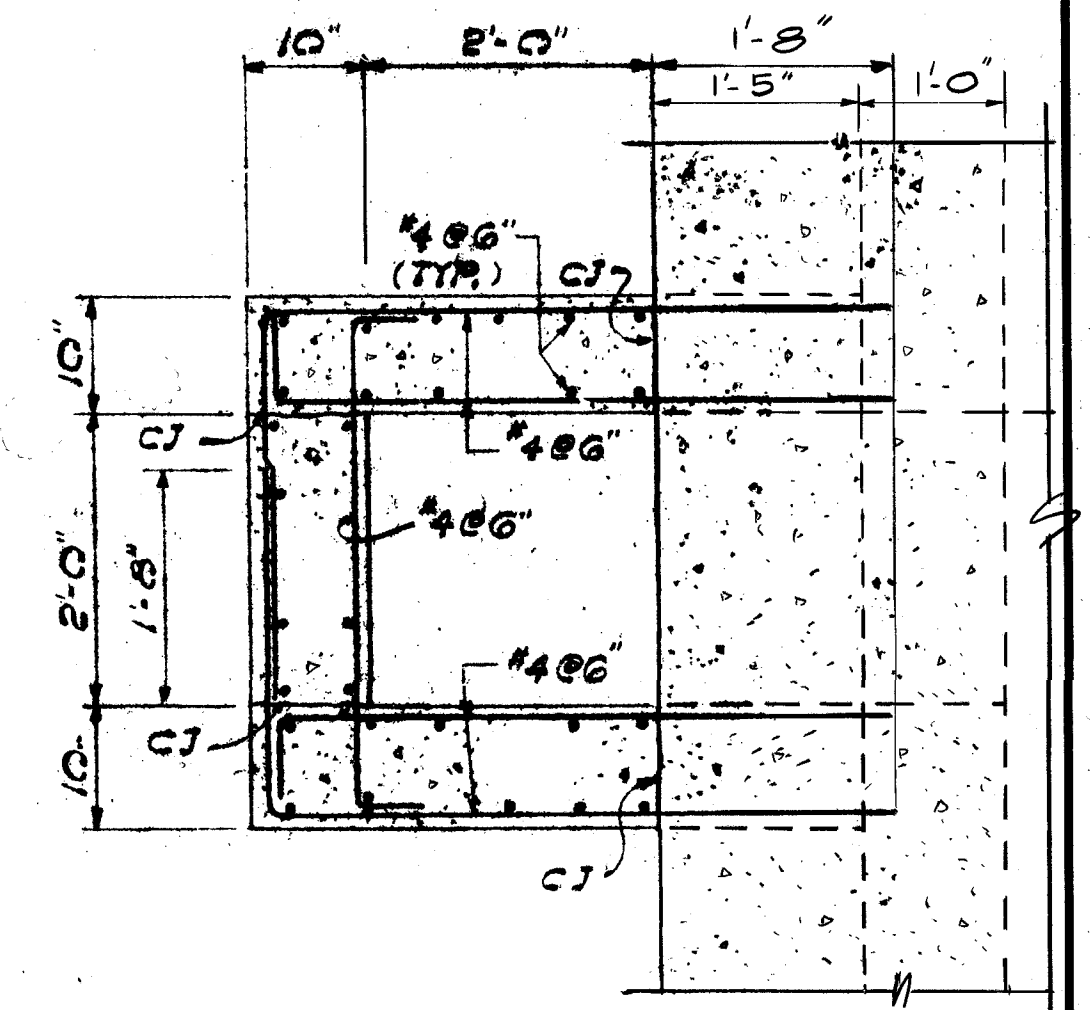
SECTION 2
SCALE: 3/4" = 1'-0" S-11 S-11



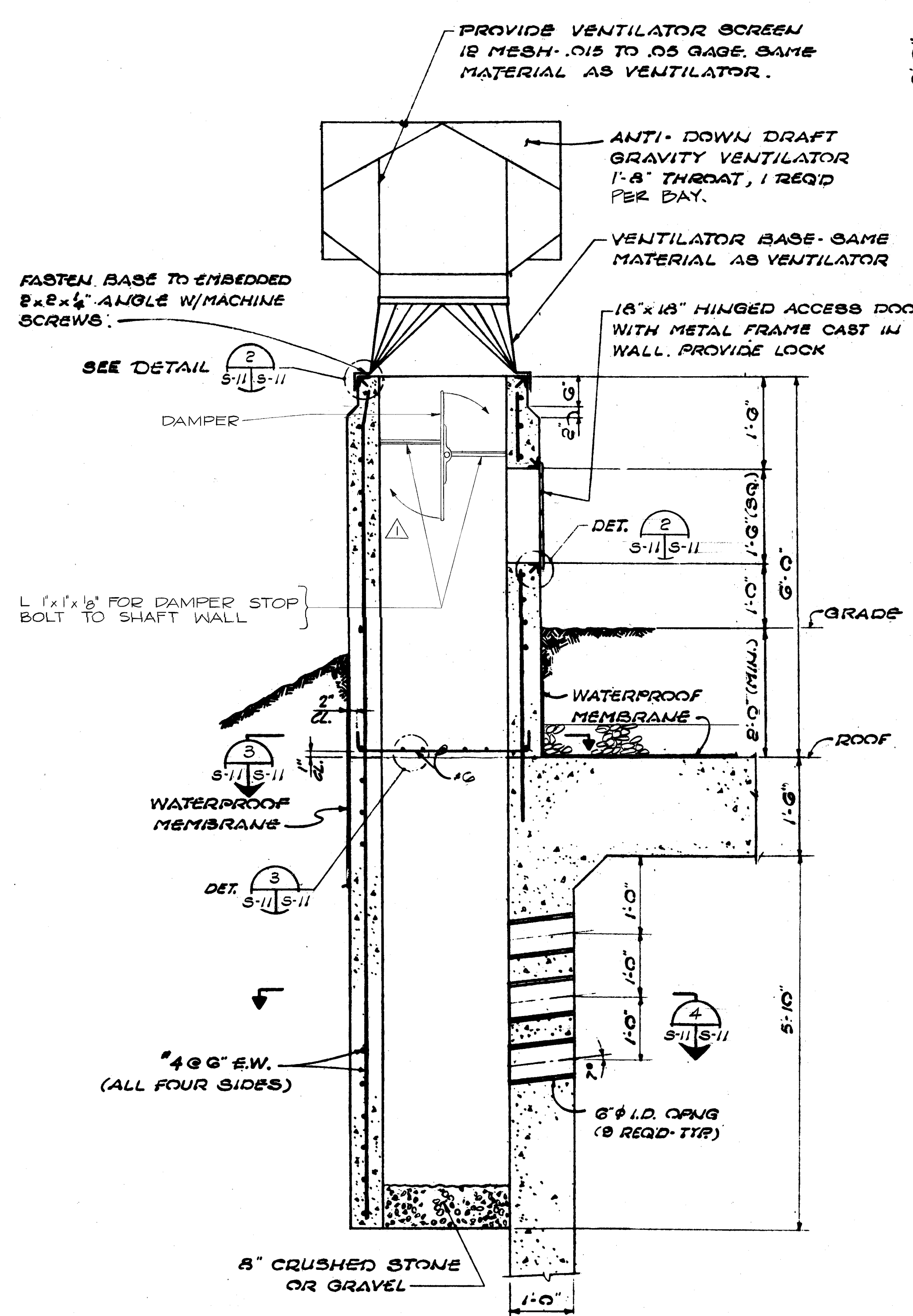
DETAIL 4
SCALE: 1/2" = 1'-0" S-11 S-11
DETAIL OF AIR INTAKE DUCT



SECTION 5
SCALE: 3/4" = 1'-0" S-11 S-11

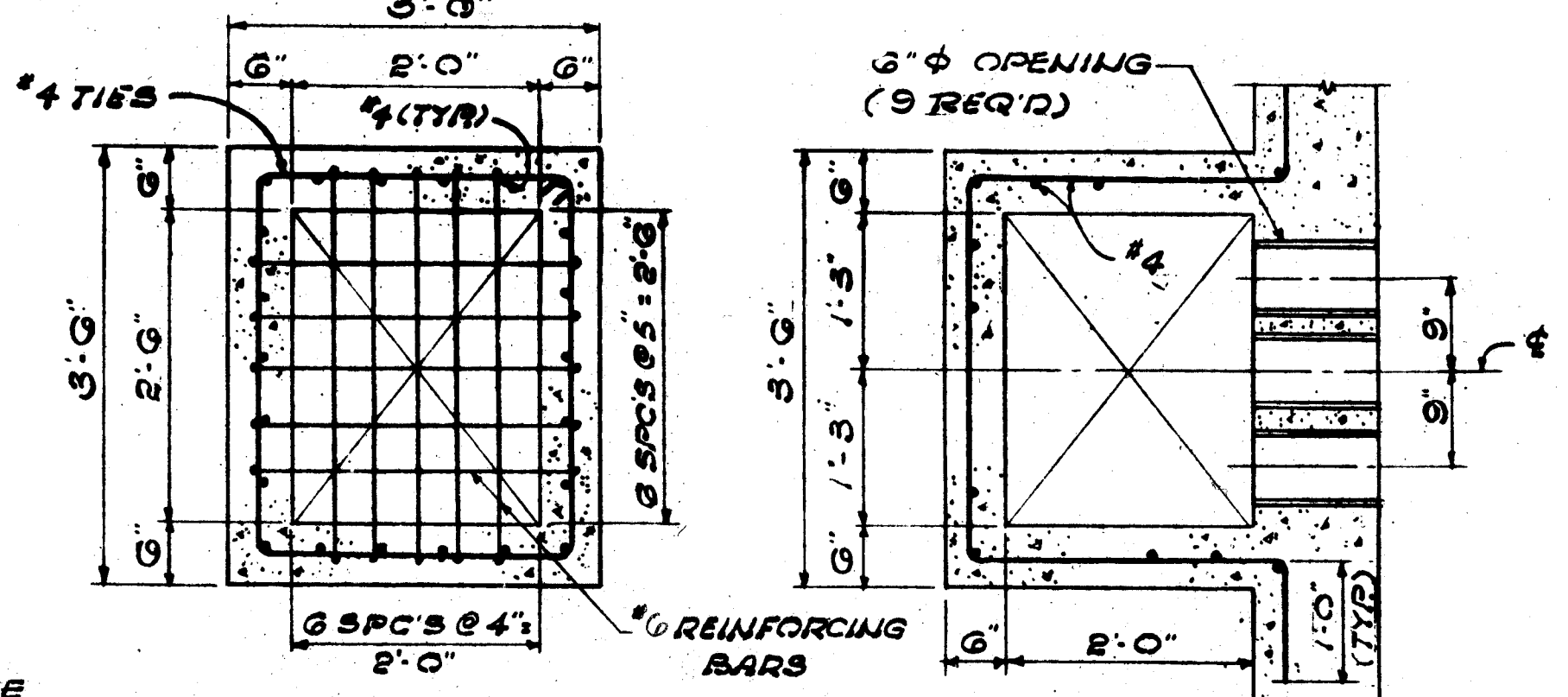


SECTION 6
SCALE: 3/4" = 1'-0" S-11 S-11

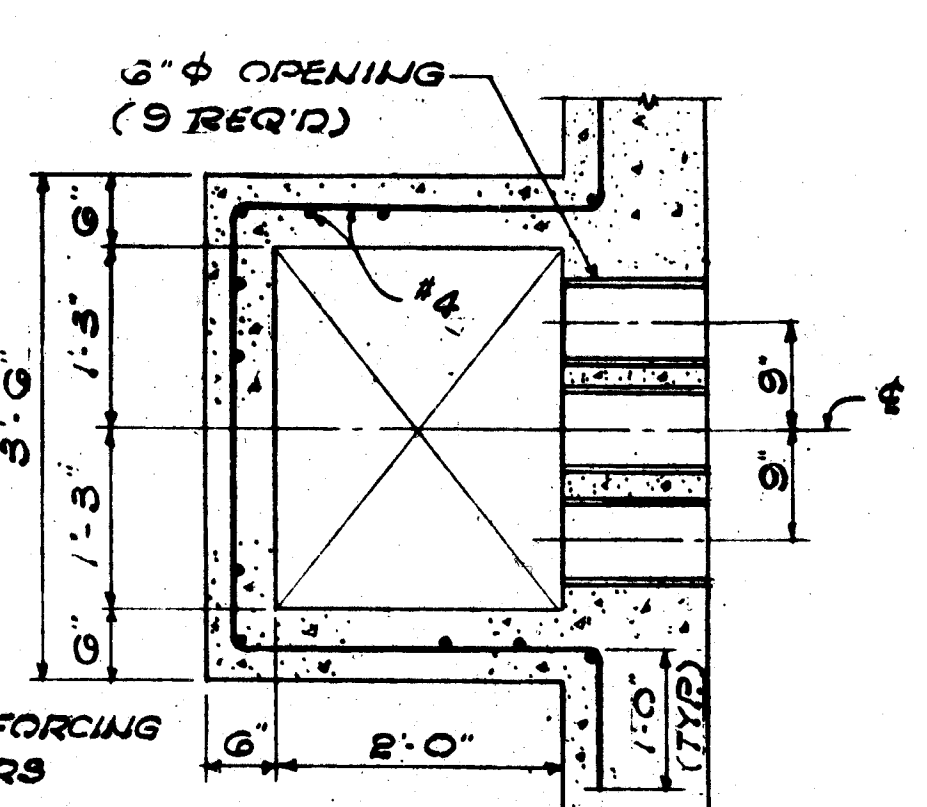


SECTION 1
SCALE: 3/4" = 1'-0" S-11 S-11

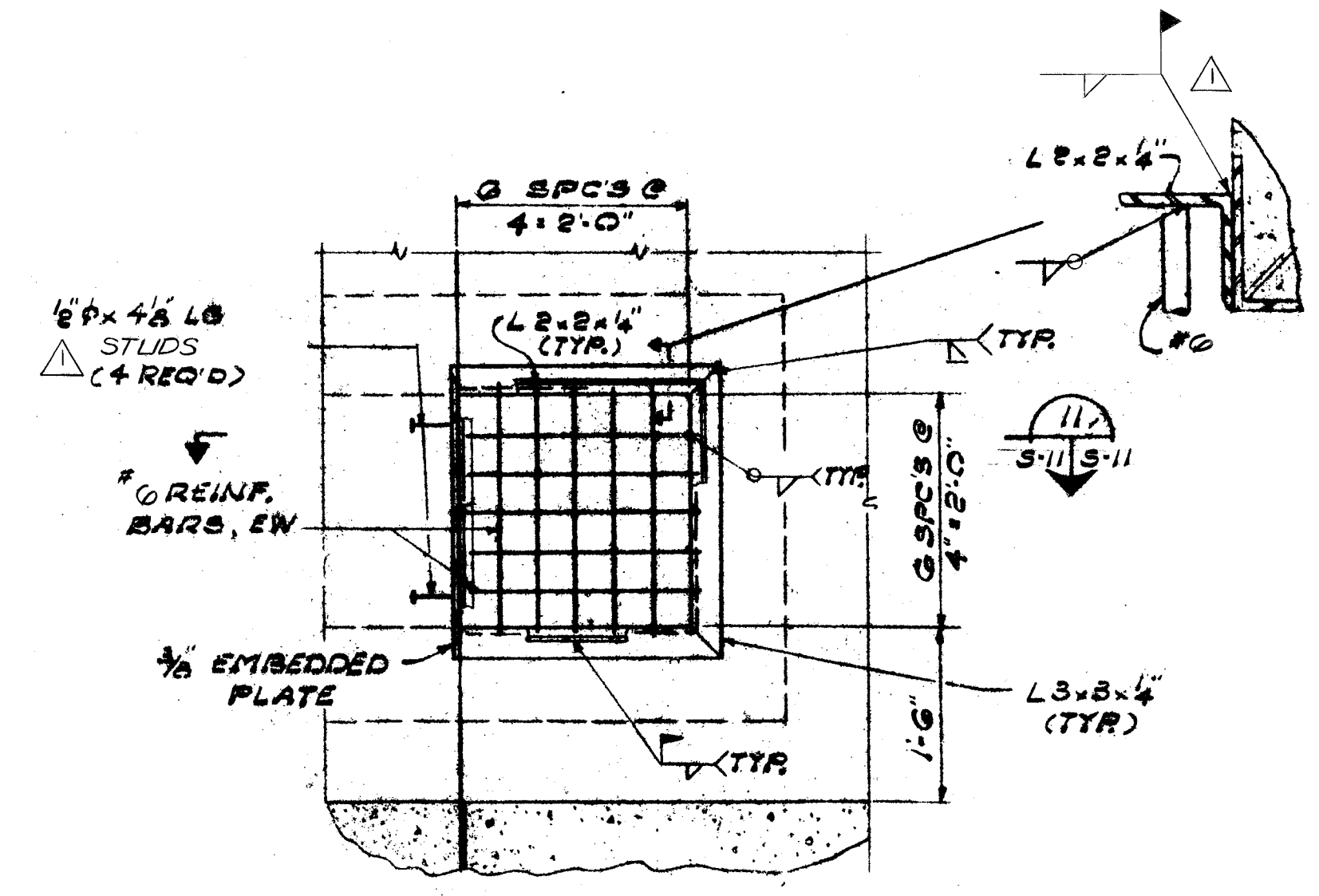
DETAILS OF VENTILATOR SHAFT



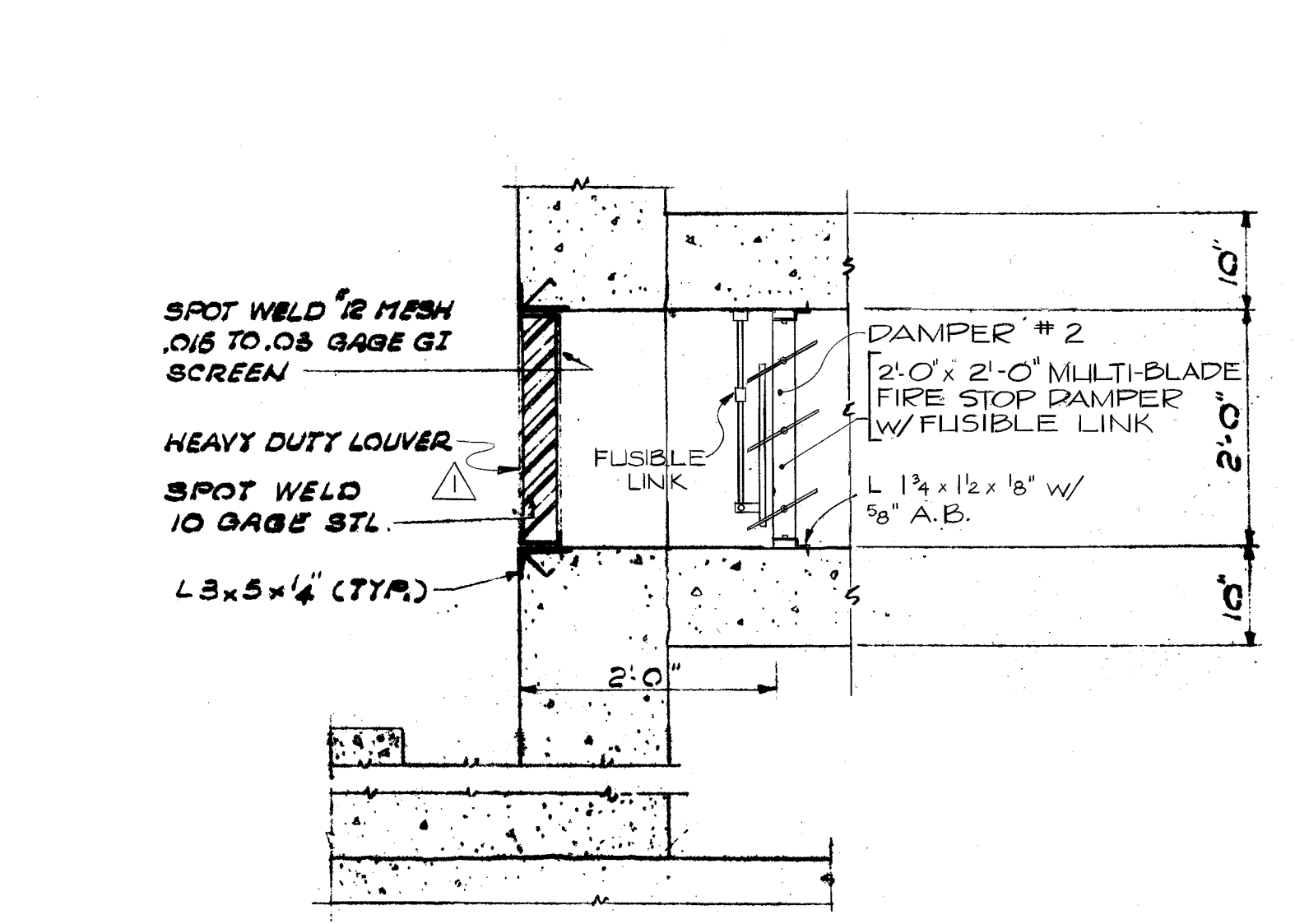
SECTION 3
SCALE: 3/4" = 1'-0" S-11 S-11



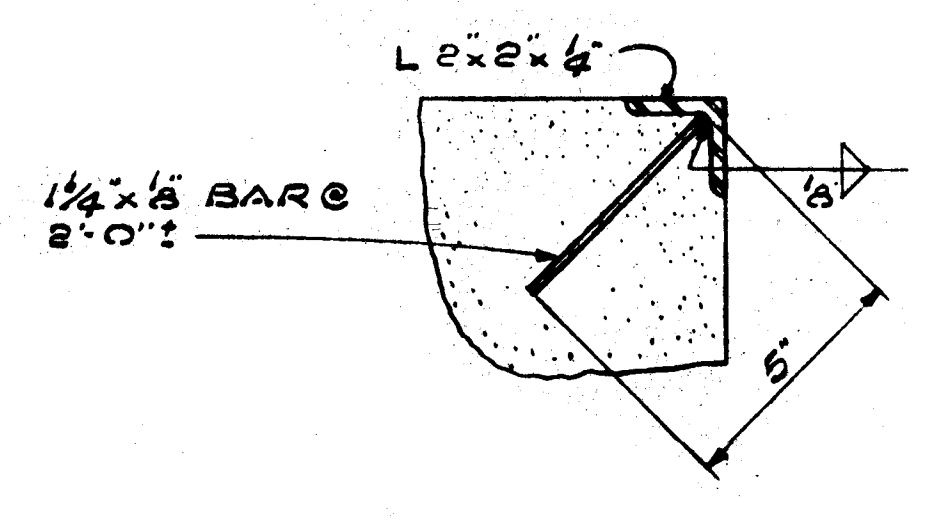
SECTION 4
SCALE: 3/4" = 1'-0" S-11 S-11



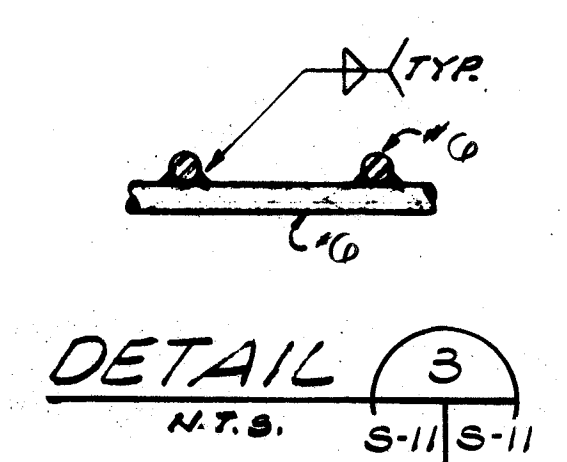
SECTION 7
SCALE: 3/4" = 1'-0" S-11 S-11



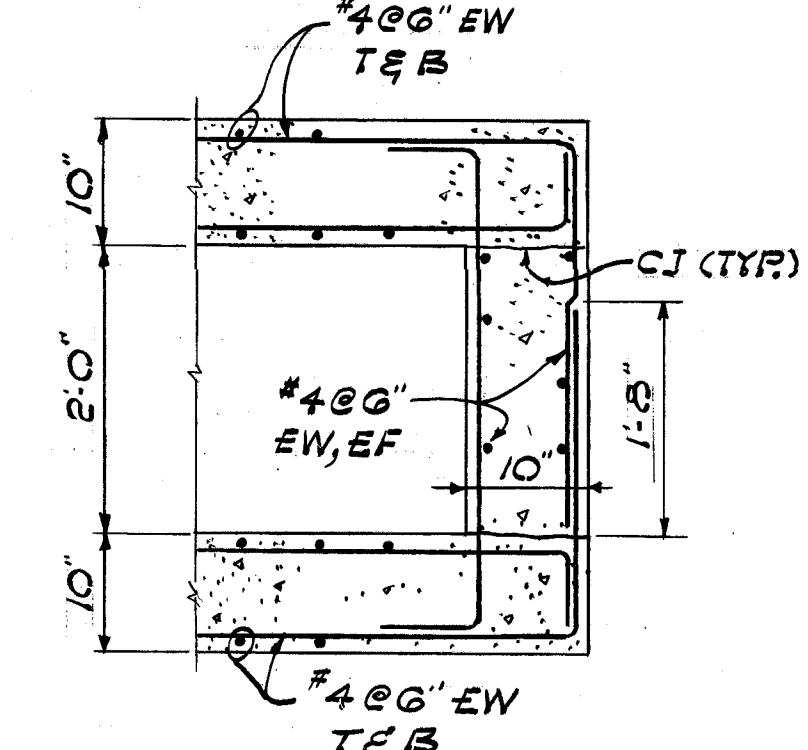
SECTION 8
SCALE: 3/4" = 1'-0" S-11 S-11



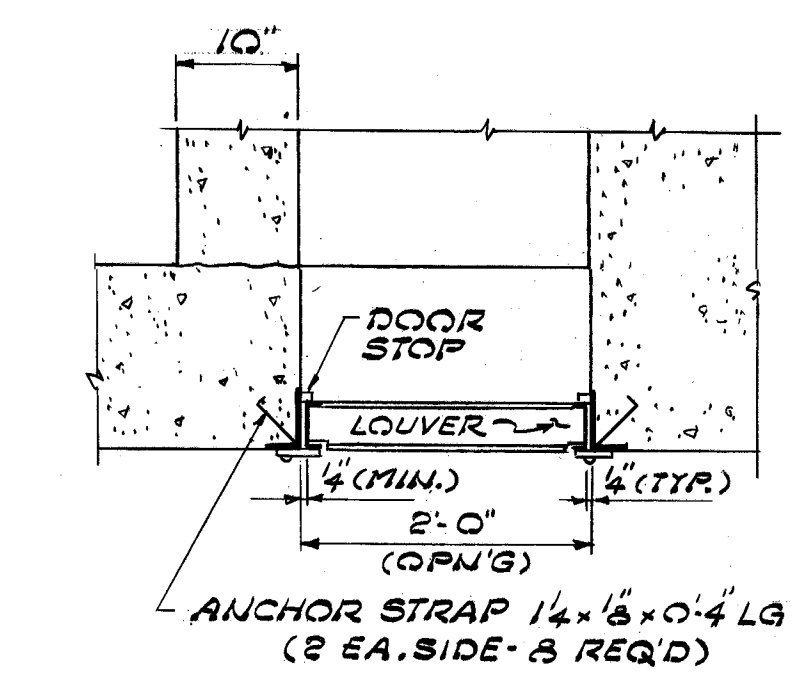
DETAIL 2
SCALE: 3" = 1'-0" S-11 S-11



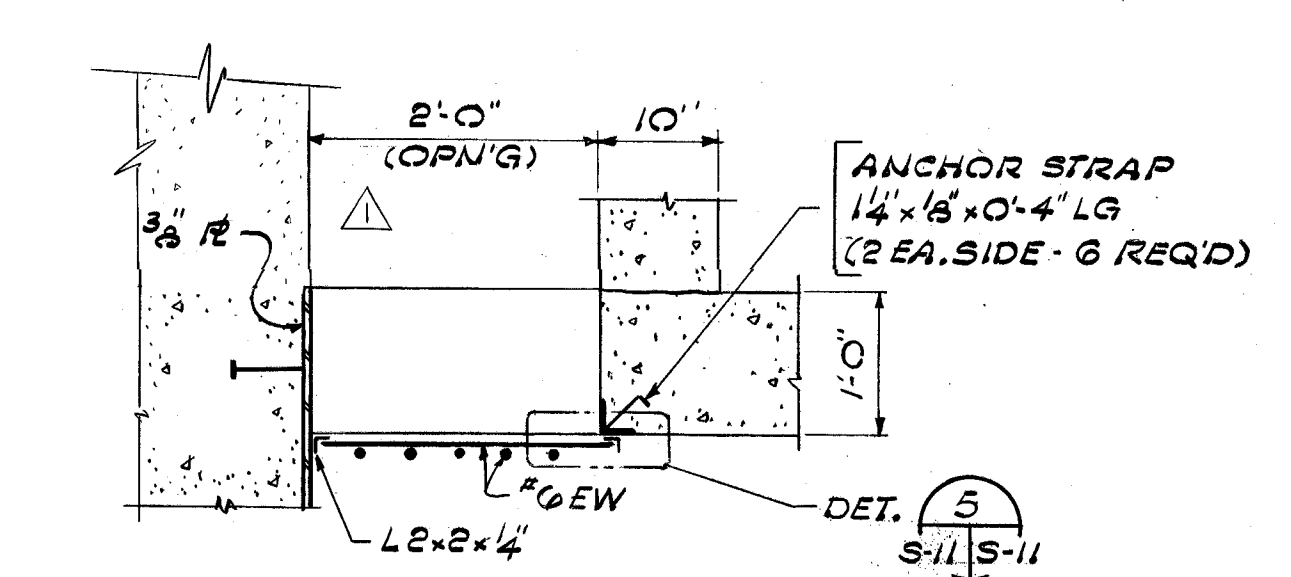
DETAIL 3
N.T.S. S-11 S-11



SECTION 9
SCALE: 3/4" = 1'-0" S-11 S-11

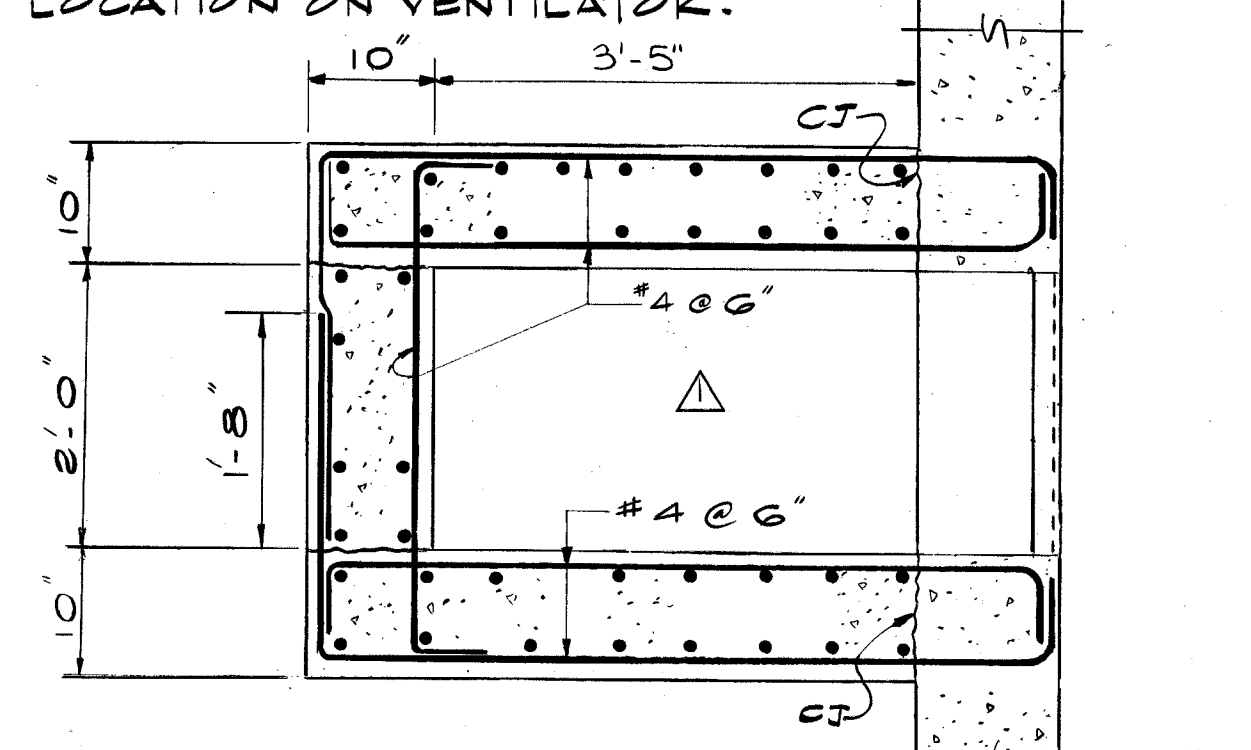


SECTION 10
SCALE: 3/4" = 1'-0" S-11 S-11

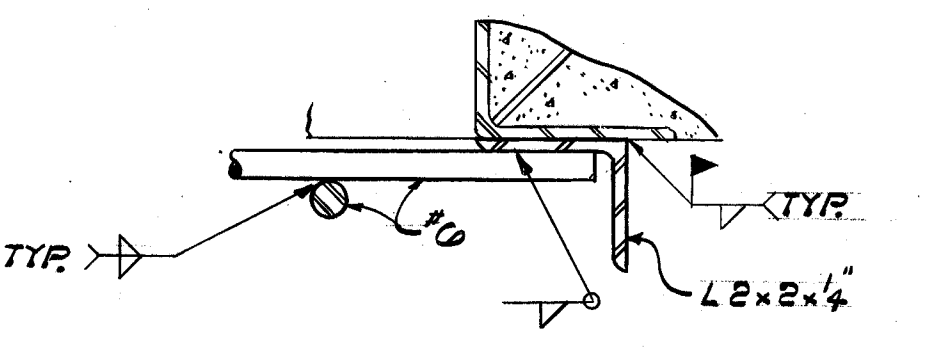


SECTION 11
SCALE: 3/4" = 1'-0" S-11 S-11

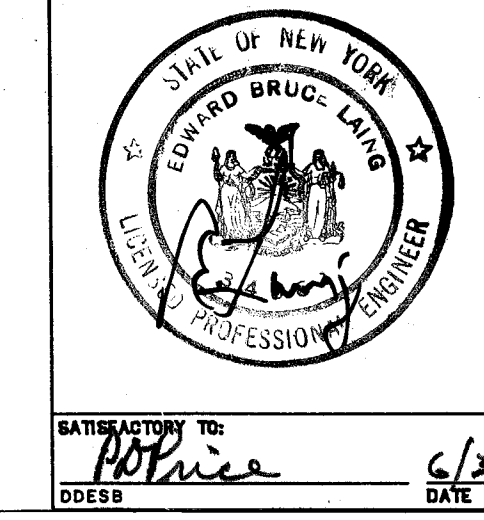
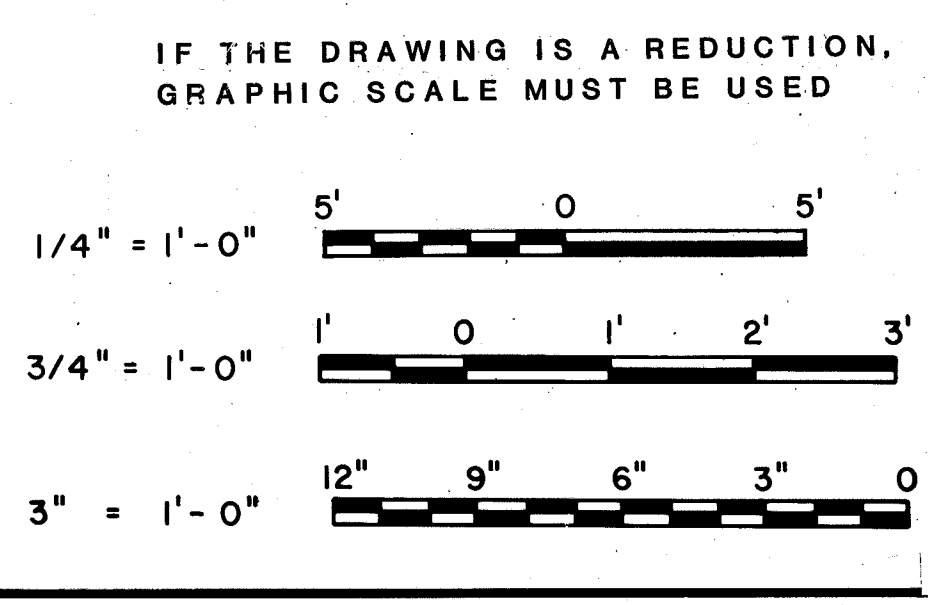
- NOTES:**
1. ALL SET SCREWS AND MACHINE SCREWS SHALL BE BRASS.
 2. DESIGN FOR VENTILATOR IS BASED ON A STEADY WIND SPEED OF 85 M.P.H.
 3. REFER TO DRAWING E-2 FOR LIGHTNING ROD LOCATION ON VENTILATOR.



SECTION 12
SCALE: 3/4" = 1'-0" S-11 S-11

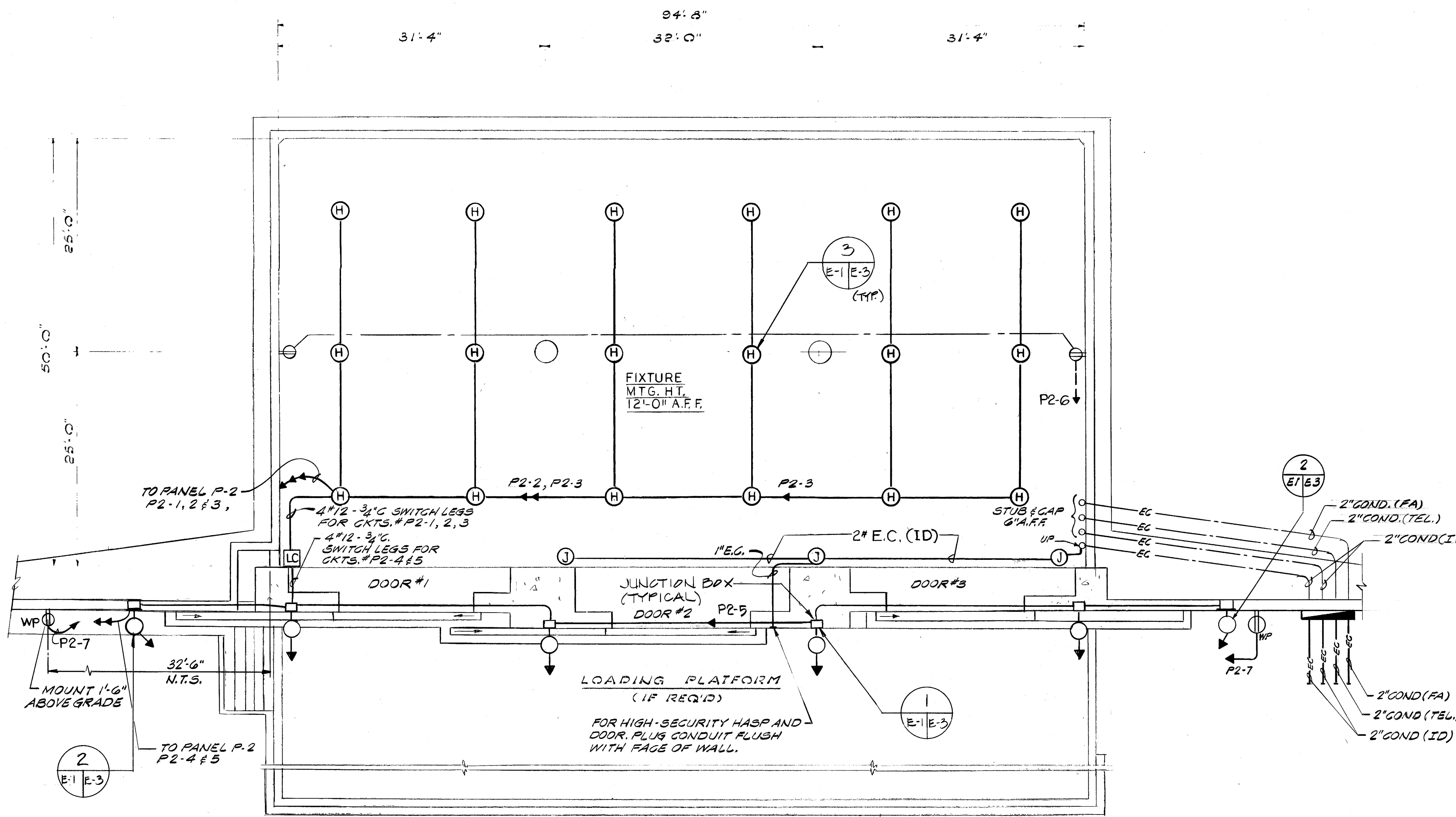


DETAIL 5
N.T.S. S-11 S-11

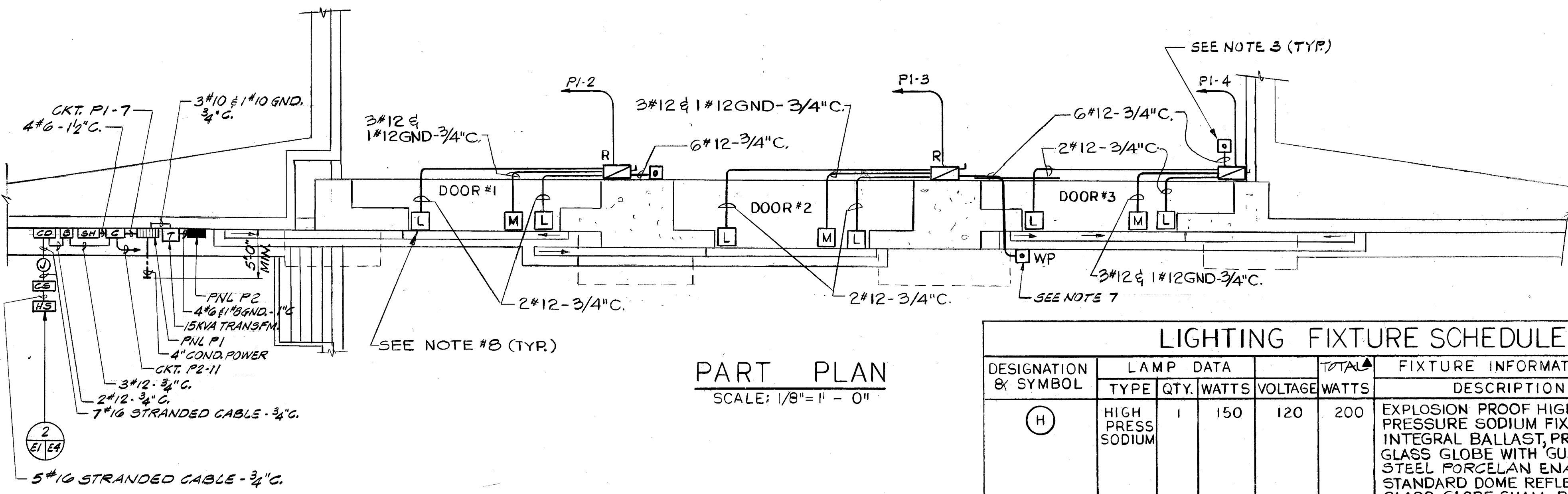


GENERAL REVISION		REVISIONS	
SYMBOL	DESCRIPTION	PREPARED BY	DATE
		DAC	1-3-91

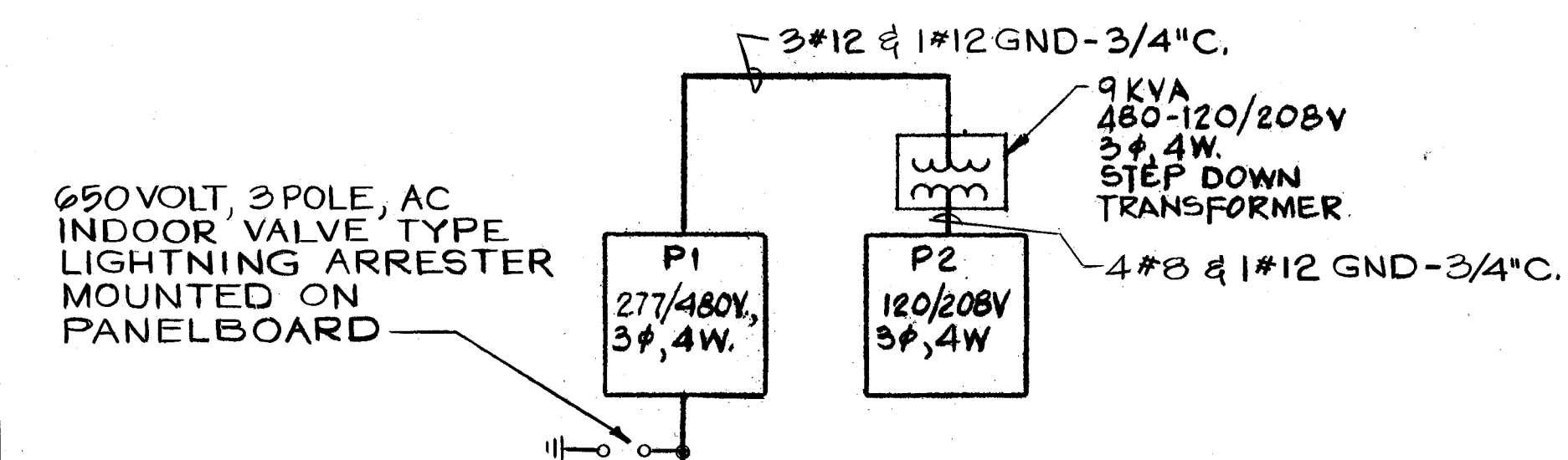
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST. N.Y., N.Y.		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20360	
E. LANG PRINCIPAL DATE: 4-23-87		NAVAL FACILITIES ENGINEERING COMMAND	
R.A. Roe ENGINEER IN CHARGE		STANDARD DRAWING BOX MAGAZINE TYPE E VENTILATOR DETAILS	
SCALE: AS NOTED	CODE IDENT NO: 80091	NAVAL DRAWING NUMBER: 1404533	SHEET: 11 OF 15
DATE: 4/20/87	CATEGORY CODE: 421	SPEC NO: NFSS-M44	



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



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



POWER SUPPLY DIAGRAM

LIGHTING FIXTURE SCHEDULE					
DESIGNATION & SYMBOL	LAMP DATA	TOTAL WATTS	FIXTURE INFORMATION		
	TYPE QTY. WATTS VOLTAGE		DESCRIPTION	MTG.	
(H)	HIGH PRESS SODIUM 1 150 120 200	200	EXPLOSION PROOF HIGH PRESSURE SODIUM FIXTURE WITH INTEGRAL BALLAST, PRISMATIC GLASS GLOBE WITH GUARD AND STEEL PORCELAIN ENAMEL STANDARD DOME REFLECTOR. GLASS GLOBE SHALL BE OF THE HEAT AND IMPACT RESISTANT	PENDANT WITH FLEXIBLE CUSHION HANGER	
(W)	HIGH PRESS SODIUM 1 250 120 300	300	MARINE FLOODLIGHT IN ACCORDANCE WITH UL 595 SHALL BE CORROSION RESISTANT AND HAVE AN INTEGRAL BALLAST. THE LENS DOOR SHALL CONTAIN A HEAT AND IMPACT RESISTANT GLASS AND BE WEATHERPROOF SEALED. THE LAMP HOLDER SHALL BE SHOCK RESISTANT. FIXTURE SHALL HAVE INTEGRALLY MOUNTED PHOTO ELECTRIC CONTROL. FIXTURE SHALL BE CAPABLE OF BEING AIMED 90° IN BOTH DIRECTIONS FROM THE HORIZONTAL PLANES. FIXTURE SHALL HAVE A QUARTZ AUXILIARY LAMP *	TRUNNION TYPE	

* INCLUDES BALLAST WATTAGE

PANEL SCHEDULE							
PANEL	CKT. NO.	BREAKER POLES	AMPS	WIRE NO.	COND. SIZE AWG.	LOAD IN KVA	EQUIPMENT
P1 277/480V. 3Ø, 4W.	-	3	60	-	-	39.1	MAIN BREAKER
	1	3	20	3	12 3/4"	9.0	TRANSFORMER
	2	3	20	3	12 3/4"	1.0	DOOR #1
	3	3	20	3	12 3/4"	1.0	DOOR #2
	4	3	20	3	12 3/4"	1.0	DOOR #3
	5	3	40	4	8 3/4"	25.1	HEAT TRACING CONTACTOR
	6	3	20	-	-	-	1.0

TOTAL CONNECTED LOAD 39.1 KVA.

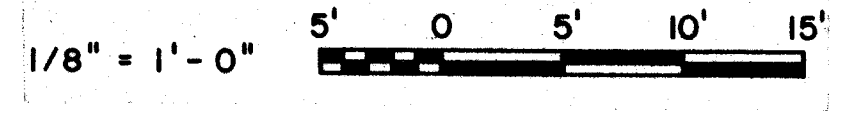
12. ALL ELECTRICAL SERVICES MUST BE UNDERGROUND WITHIN 50 FEET OF THE MAGAZINE.

PANEL SCHEDULE								
PANEL	CKT. NO.	BREAKER POLES	AMPS	WIRE NO.	COND. SIZE AWG.	LOAD IN KVA	EQUIPMENT	
P2 120/208V. 3Ø, 4W.	-	3	30	-	-	7.0	MAIN BREAKER	
	1	1	20	2	12 3/4"	1.2	MAGAZINE LTG.	
	2	1	20	2	12 3/4"	1.2		
	3	1	20	2	12 3/4"	1.2		
	4	1	20	2	12 3/4"	.9	EXTERIOR LTG.	
	5	1	20	2	12 3/4"	.9		
	6	1	20	2	12 3/4"	.4	RECEPTACLES	
	7	1	20	2	12 3/4"	.4	RECEPTACLES	
	8	1	20	2	12 3/4"	.1	HEAT TRACING CONTROL	
	9	1	20	-	-	-	-	SPARE
	10	1	20	-	-	-	-	
	11	1	20	-	-	-	-	

TOTAL CONNECTED LOAD 7KVA

- SYMBOLS (CONTINUED)**
- (SD) SNOW DETECTOR AND TEMPERATURE CONTROLLER IN NEMA 4 ENCLOSURE, SEE DWG. E-4 AND PART PLAN, THIS SHEET.
 - (SM) SNOW MELTING POWER PANEL 277/480V, 3Ø, 4W, IN NEMA 4 ENCLOSURE, SEE DWG. E-4 AND PART PLAN, THIS SHEET.
 - (C) 60A, 3Ø, CONTACTOR WITH 120 V. CONTROL COIL IN NEMA 4 ENCLOSURE, SEE DWG. E-4 AND PART PLAN, THIS SHEET.
 - (B) BY-PASS SWITCH, 2Ø, 125V, DOUBLE-THROW SWITCH WITH GREEN INDICATING LAMP FOR OVER-RIDE INDICATION, IN NEMA 4 ENCLOSURE, SEE DWG. E-4 AND PART PLAN, THIS SHEET.
 - (HS) HEATED SENSOR EMBEDDED IN PAVEMENT, SEE DWG. E-4, AND PART PLAN, THIS SHEET.
 - (GS) GOLD SENSOR EMBEDDED IN PAVEMENT, SEE DWG. E-4 AND PART PLAN, THIS SHEET.
 - (D) DOOR LIMIT SWITCH
 - (GFI) CIRCUIT BREAKER WITH GROUND FAULT INTERRUPTER
 - (TEL) TELEPHONE
 - (E.C.) EMPTY CONDUIT
 - (FA) FIRE ALARM
 - (ID) INTRUSION DETECTION
 - (J) JUNCTION BOX
 - (N.T.S.) NOT TO SCALE
 - (-|-|-) LIGHTNING ARRESTER

IF THE DRAWING IS A REDUCTION, GRAPHIC SCALE MUST BE USED



* THE INCLUSION OF A QUARTZ AUXILIARY LAMP AND/OR PHOTO ELECTRIC CONTROL SHALL BE DETERMINED BY THE JURISDICTION AT EACH SITE.

GENERAL NOTES:

1. FOR INFORMATION NOT INDICATED ON DRAWINGS SEE SPECIFICATION
2. MINIMUM SIZE WIRE SHALL BE #12 AWG, 90°C RATED TYPE THHN MINIMUM SIZE CONDUIT SHALL BE 3/4" RIGID GALVANIZED STEEL.
3. ALL ELECTRICAL EQUIPMENT AND INSTALLATION INSIDE THE MAGAZINE SHALL BE IN ACCORDANCE WITH THE N.E.C. NFPA 70 REQUIREMENTS FOR HAZARDOUS LOCATIONS CLASS I, DIVISION II GROUP D, AND CLASS II, DIVISION II, GROUP G.
4. ALL EXPLOSIONPROOF RECEPTACLES SHALL BE PROVIDED WITH A MATING EXPLOSIONPROOF PLUG.
5. LIGHTING CONTROL CENTER SHALL CONTAIN THE REQUIRED AMOUNT OF SINGLE POLE, 20A, 125V SWITCHES TO CONTROL THE MAGAZINE INTERIOR LIGHTS AND THE OUTSIDE FLOODLIGHTS. THE LIGHTING CONTROL CENTER SHALL HAVE A NEMA 7 TYPE ENCLOSURE.
6. FOR DOOR WIRING DIAGRAMS SEE SCHEMATIC DIAGRAMS ON DRAWING E-3.
7. DOOR CONTROL PUSHBUTTON STATION SHALL BE MOUNTED 4'-0" ABOVE PLATFORM.
8. THE EXACT LOCATION OF DOOR OPERATOR AND DOOR SWITCHES SHALL BE IN ACCORDANCE WITH DOOR MANUFACTURERS REQUIREMENTS.
9. FOR HEAT TRACING SEE DWG. E-4 CIRCUIT P2-8 IS REQUIRED ONLY WHEN HEAT TRACING IS PROVIDED AT SITE. IF HEAT TRACING IS NOT INSTALLED THEN CKT. P2-8 SHALL REMAIN A SPARE.
10. ALL ARCHITECT/ENGINEERS USING THESE DRAWINGS AS STANDARDS SHALL INCLUDE THE INTERCEPTING CURRENTS OF ALL ELECTRICAL ITEMS ON THEIR DRAWINGS.
11. ALL LIGHTING FIXTURES, RECEPTACLES, DEVICES, MOTORS, AND ENCLOSURES SHALL BE GROUNDLED WITH A SEPARATE GROUND WIRE PROVIDED IN EACH CONDUIT.

SYMBOLS (THIS DRAWING ONLY)

- (H) CEILING MOUNTED 150W. H.P.S. LTG. FIXTURE WITH STANDARD DOME REFLECTOR.
- (W) WALL MOUNTED 250W HIGH PRESSURE SODIUM MARINE TYPE FLOODLIGHT. ARROW INDICATES AIMING DIRECTION OF LUMINAIRE.
- (D) DUPLEX RECEPTACLE, 20A, 125V, 2Ø, 3W, GROUNDING TYPE
- (T) TEL/FA/ID TERMINAL CABINET, 30"W x 36"H x 6"D, IN NEMA 4 ENCLOSURE, WITH TAMPER SWITCH
- (P-1) 277/480V, 3Ø, 4W PANEL P-1.
- (T) 480V-120/208V, 3Ø, 4W, DRY-TYPE TRANSFORMER IN NEMA 4, ENCLOSURE, WALL MOUNTED
- (P-2) 120/208V, 3Ø, 4W LIGHTING PANEL
- (-|-|-) WIRES IN RIGID STEEL CONDUIT CONCEALED IN CEILING OR WALL
- (-|-|-) WIRES IN RIGID STEEL CONDUIT CONCEALED IN FLOOR
- (-|-|-) WIRES IN RIGID STEEL CONDUIT EXPOSED
- (E.C.) EMPTY RIGID STEEL CONDUIT RUN UNDERGROUND ENCASED IN CONCRETE ENVELOPE WITH MINIMUM 3" COVER CONDUIT
- (COND. C) CONDUIT
- (WP) WEATHERPROOF
- (P2-1) CKT. TO PNL (CKT. #1 TO PNL P2)
- (LC) LIGHTING CONTROL CENTER
- (M) DOOR OPERATOR INCLUDING MOTOR & BRAKE
- (L) 480V, 3Ø, COMBINATION REVERSING STARTER WITH 120V FUSED DISCONNECT SWITCH AND 120V CONTROL TRANSFORMER STARTER SHALL BE U.S.M.A. SIZE 1, RATED AT 10 HP WITH 30A FUSE CLIP IN A NEMA 9 ENCLOSURE
- (D) DOOR CONTROL PUSHBUTTON STATION WITH KEY OPERATOR SWITCH AND "OPEN", "CLOSE", "STOP" MOMENTARY PUSHBUTTONS. PUSHBUTTONS SHALL BE OILTIGHT.
- (D) DOOR LIMIT SWITCH
- (GFI) CIRCUIT BREAKER WITH GROUND FAULT INTERRUPTER
- (TEL) TELEPHONE
- (E.C.) EMPTY CONDUIT
- (FA) FIRE ALARM
- (ID) INTRUSION DETECTION
- (J) JUNCTION BOX
- (N.T.S.) NOT TO SCALE
- (-|-|-) LIGHTNING ARRESTER

REVISIONS		PREPARED BY	DATE	APPROVED BY

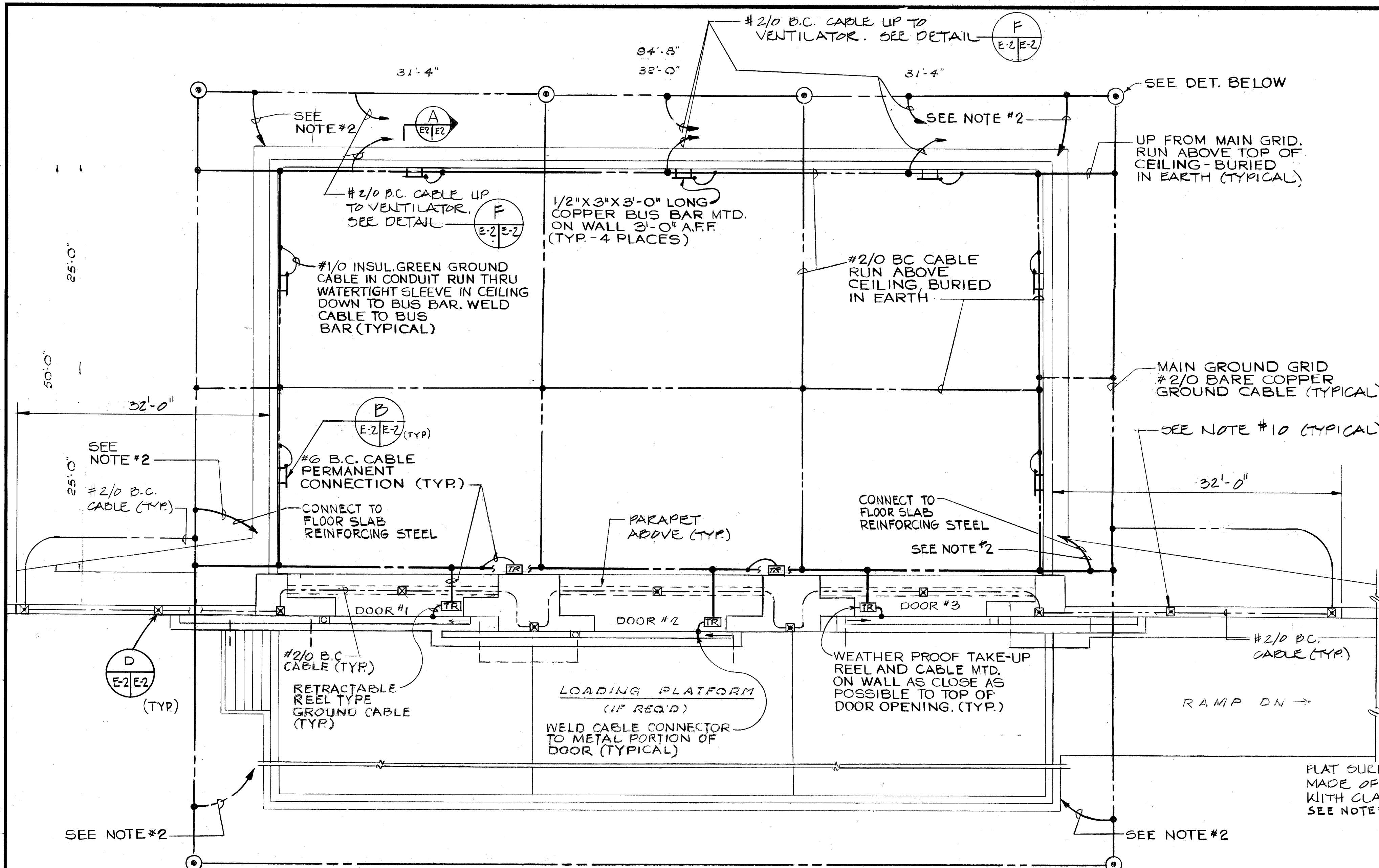
AMMANN & WHITNEY CONSULTING ENGINEERS
96 MORTON ST. N.Y., N.Y.

DEPARTMENT OF THE NAVY
WASHINGTON, D.C. 20380

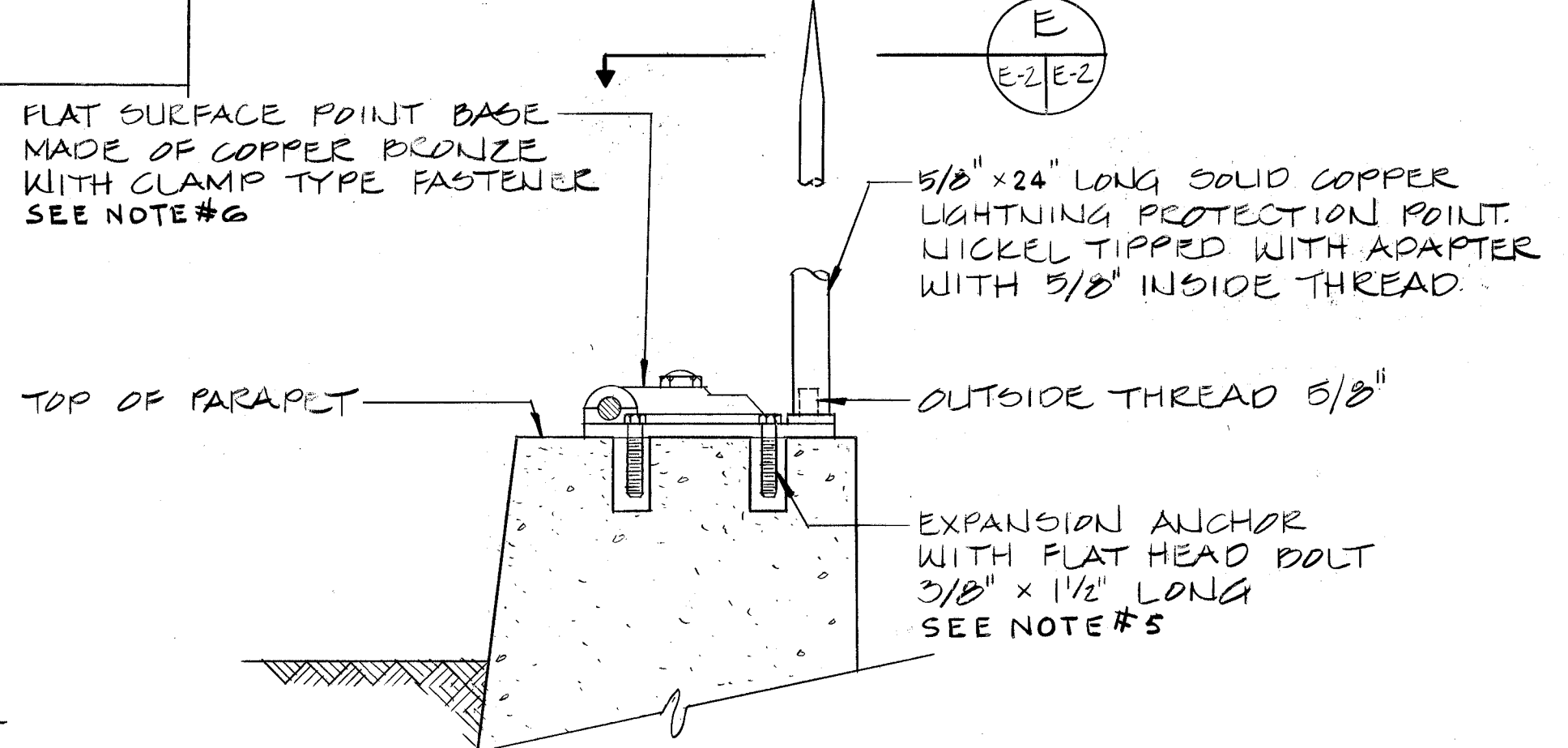
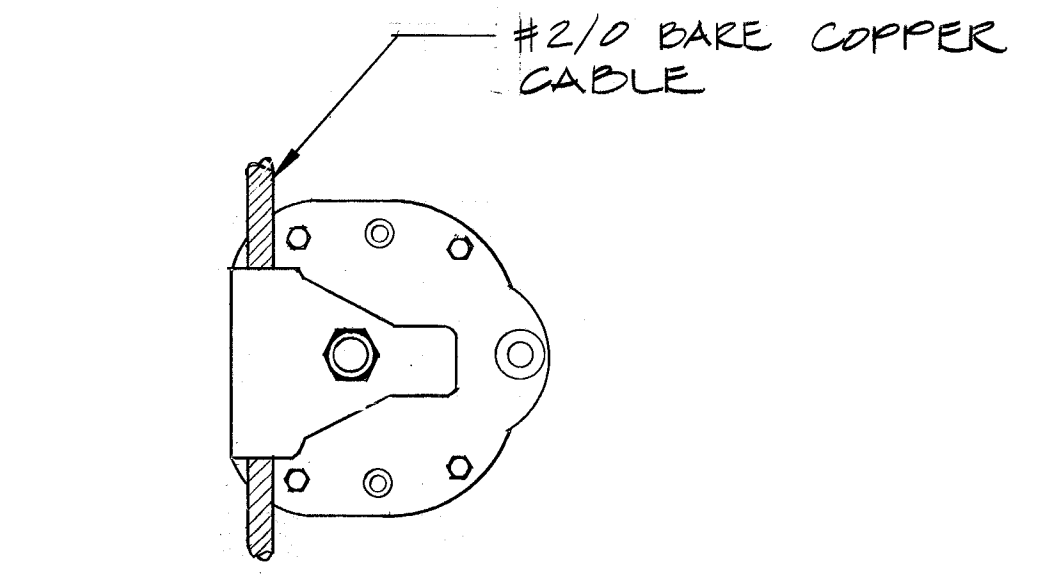
NAVAL FACILITIES ENGINEERING COMMAND
STANDARD DRAWING
BOX MAGAZINE TYPE E
LIGHTING AND POWER PLAN

DATE: 4-22-87
DRAWN BY: E. LANG
CHECKED BY: R. A. RICE
APPROVED BY: R. A. RICE
DATE: 5/6/87

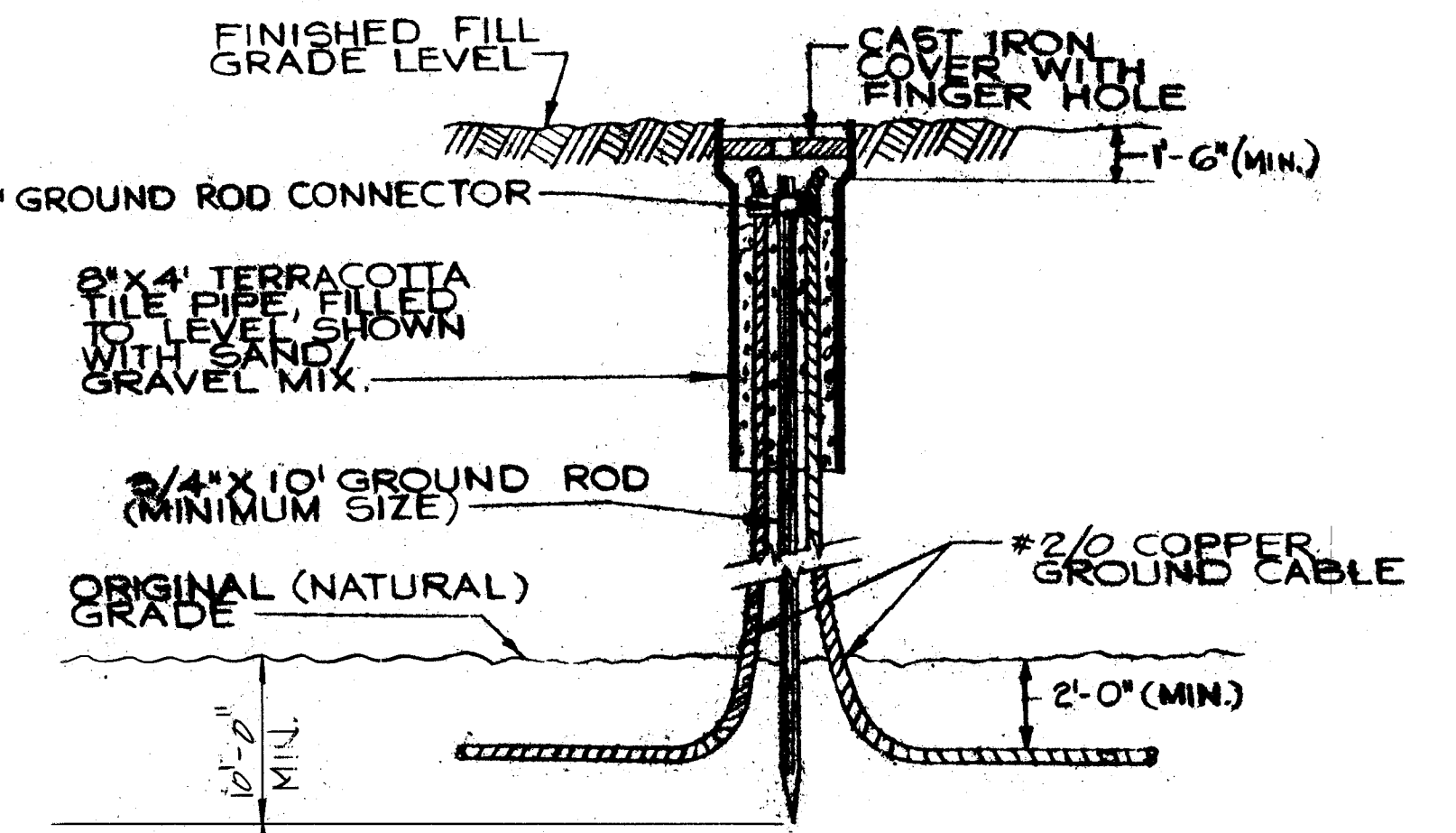
SIZE: F
CODE IDENT NO: 80091
NAVAL DRAWING NUMBER: 1404534
SCALE: AS NOTED
CATEGORY CODE: 421
SPEC NO: NFSS-M44
SHEET: 12 OF 15



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



DETAIL D
NOT TO SCALE

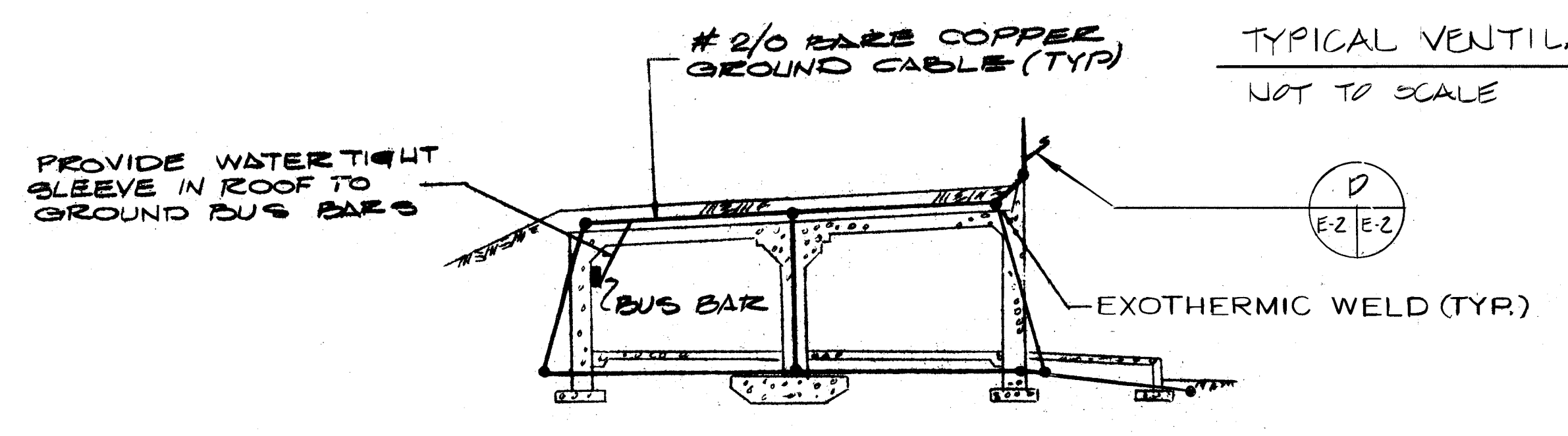
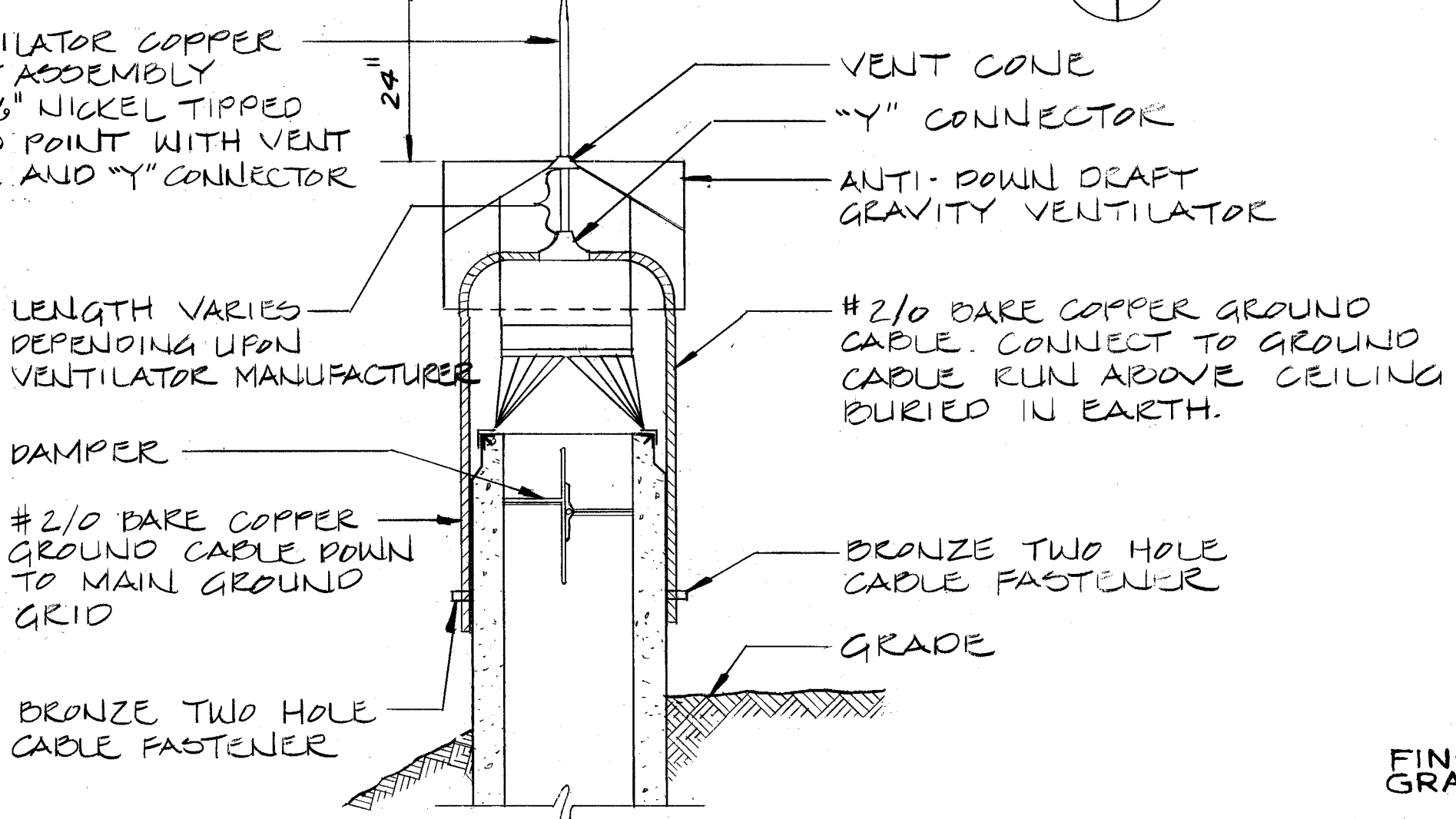
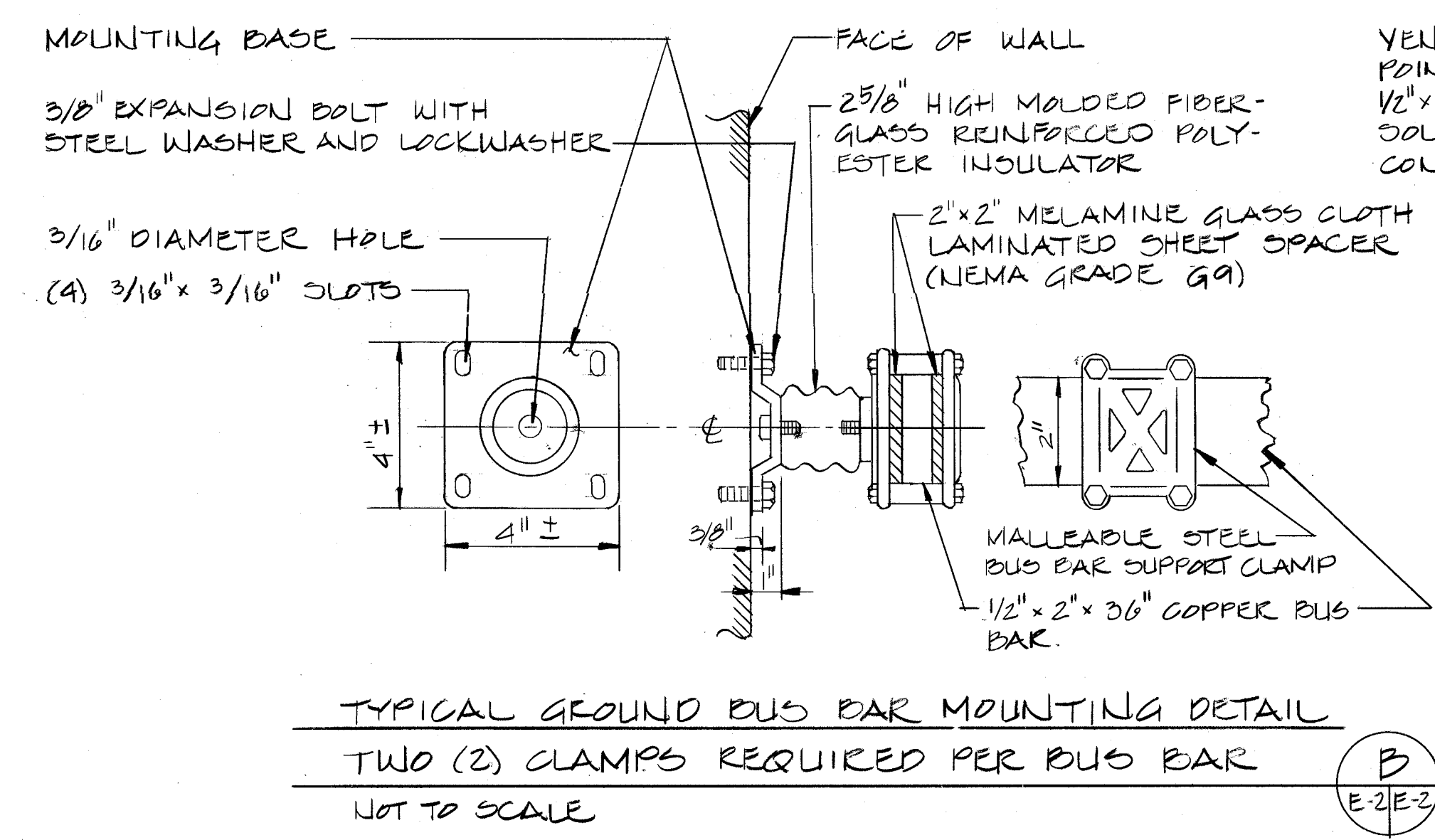


NOTES:

- GROUND RODS SHALL BE COPPER-CLAD STEEL 3/4" X 10' LONG MIN.
- ALL REINFORCING STEEL IN BUILDING AND PLATFORM IN FRONT OF BUILDING SHALL BE BONDED TO BUILDING GROUND BUS.
- ALL METAL EQUIPMENT AND PARTS IN THE BUILDING SHALL BE BONDED TO GROUND BUS.
- ALL BONDING CONNECTIONS SHALL BE MADE WITH #6 AWG BARE COPPER GROUND CABLE MINIMUM.
- SETTING SHOWN, IS SUGGESTED ANCHOR BOLT MOUNTING FOR LIGHTNING PROTECTION POINTS.
- GROUND CONNECTIONS SHOWN, ARE TYPICAL FOR ALL LIGHTNING PROTECTION POINTS.
- FOR GENERAL GROUNDING & LIGHTNING PROTECTION REQUIREMENTS REFER TO NAVFAC STANDARD SPECIFICATION M-43, SECTION 10601 AND DM 4.6.
- LIGHTNING PROTECTION SHOWN IS FOR ONE (1) THREE BAY STRUCTURE ONLY. LIGHTNING PROTECTION FOR MULTIPLE OR CLUSTERED STRUCTURES MUST BE SITE ADAPTED.
- FOR GENERAL NOTES SEE DWG. E-1.
- LIGHTNING PROTECTION POINTS SHALL BE LOCATED AS SHOWN ON THE PLAN. THE MAXIMUM SPACING SHALL BE 161'-0".

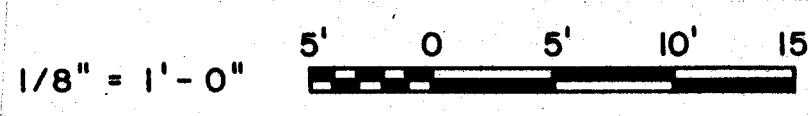
SYMBOLS (THIS DRAWING ONLY)

- BARE COPPER GROUND CABLE.
- ⊙ GROUND ROD 3/4" X 10' LG.
- COPPER GROUND BUS BAR 1/2" X 2" X 3' LG.
- MTD MOUNTED
- GROUND CABLE TAKE-UP REEL (WALL MTD)
- EXOTHERMIC WELD.
- BC BARE COPPER
- ⊠ LIGHTNING PROTECTION POINT 5/8" Ø X 24" LONG SOLID COPPER NICKEL TIPPED WITH ADAPTER WITH 3/8" INSIDE THREAD.



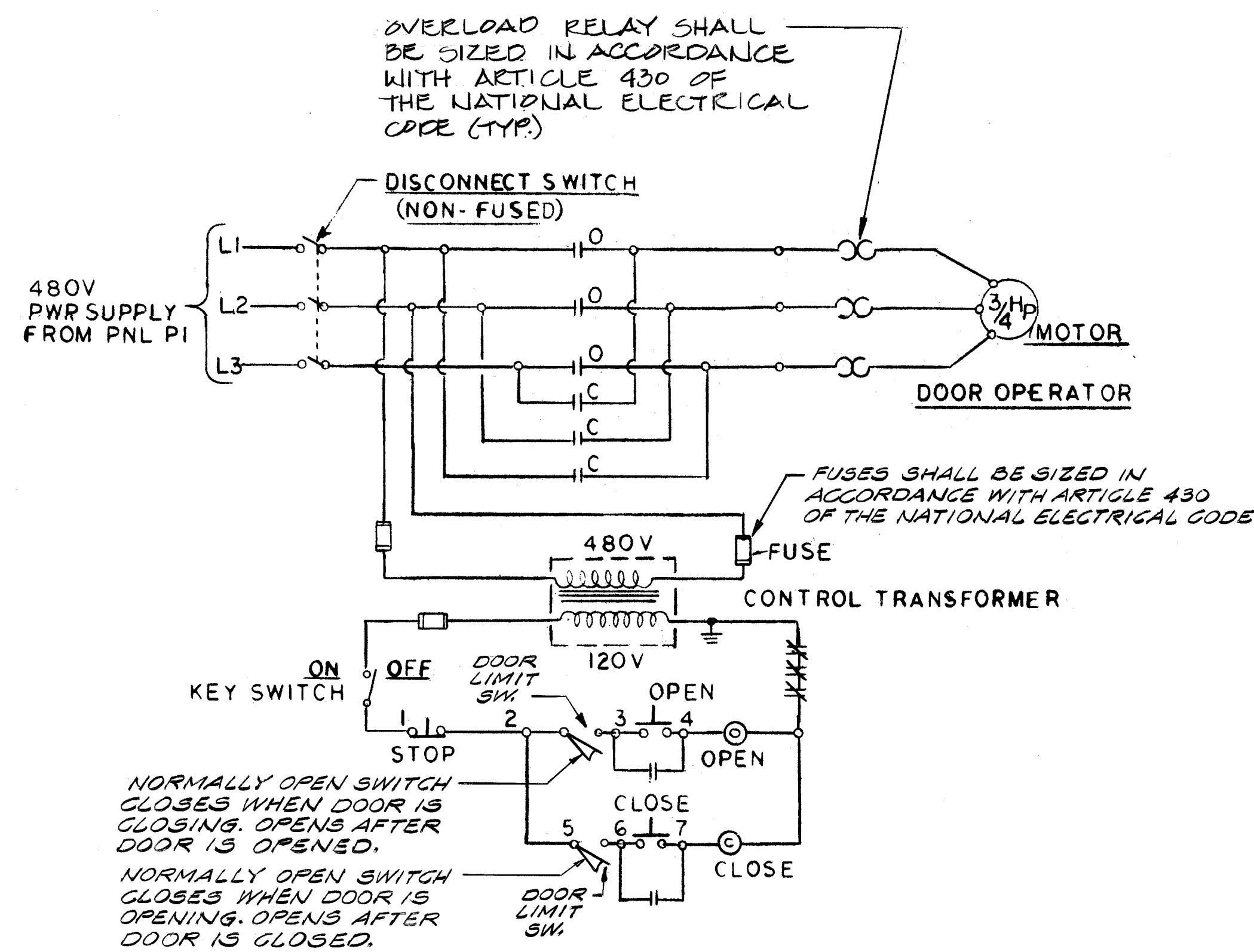
THE DEPTH OF GROUND ROD BELOW NATURAL GRADE SHALL BE SITE ADAPTED TO SUIT LOCAL SOIL CONDITION. AT NO TIME SHALL THE MINIMUM DEPTH BE LESS THAN 10'-0"

IF THE DRAWING IS A REDUCTION GRAPHIC SCALE MUST BE USED

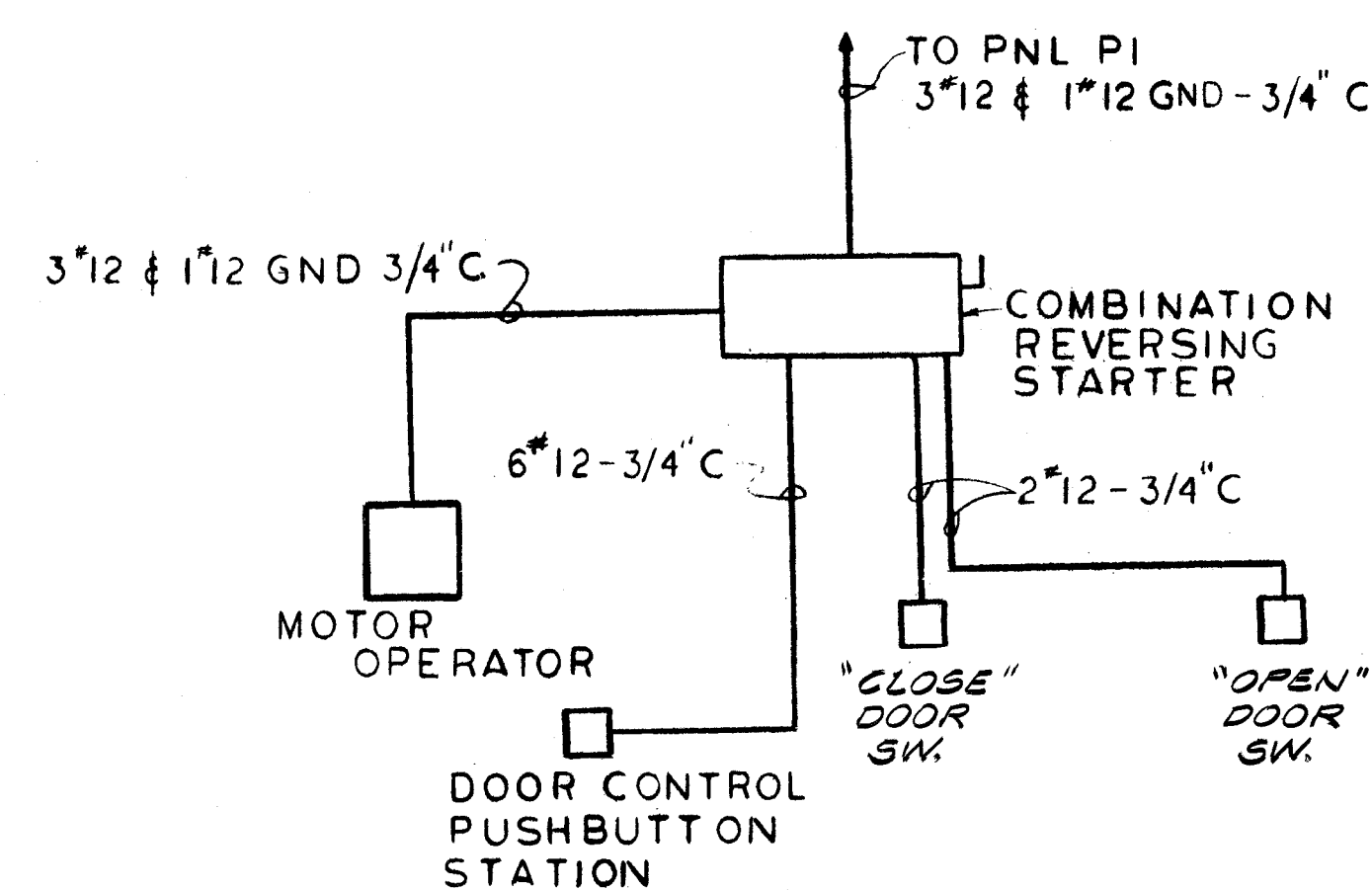


REVISIONS		APPROVED BY	
SYMBOL	DESCRIPTION	PREPARED BY	DATE

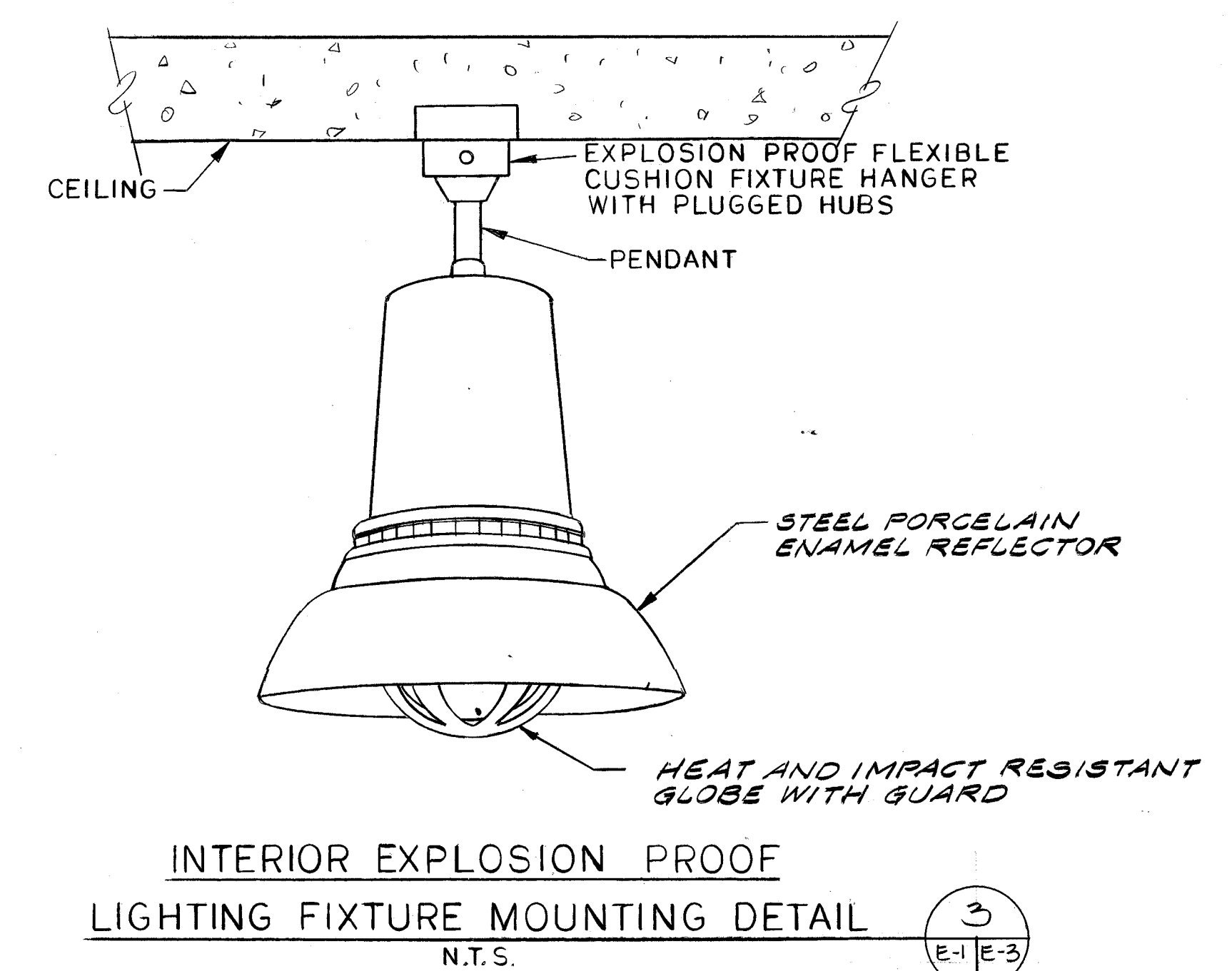
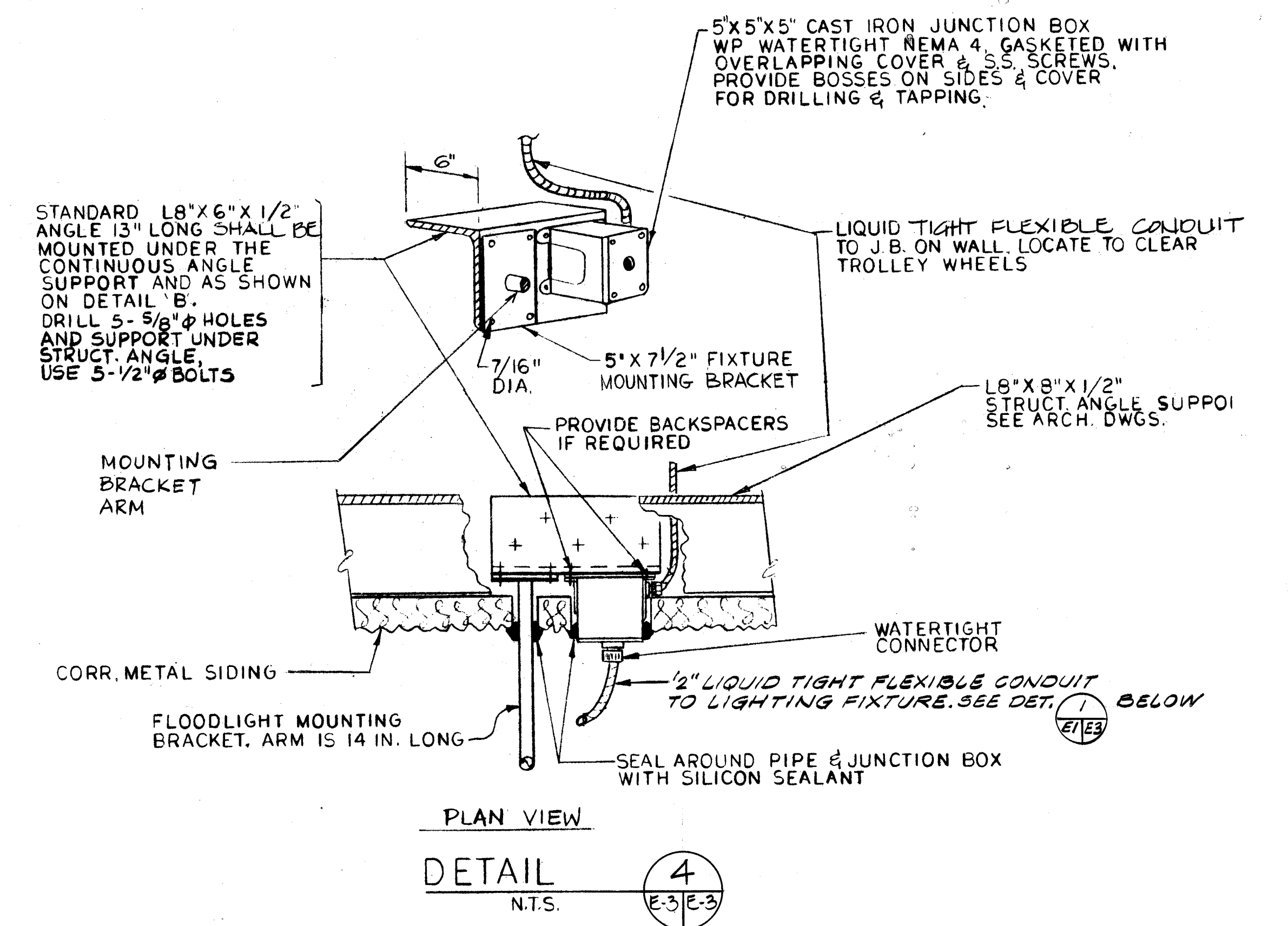
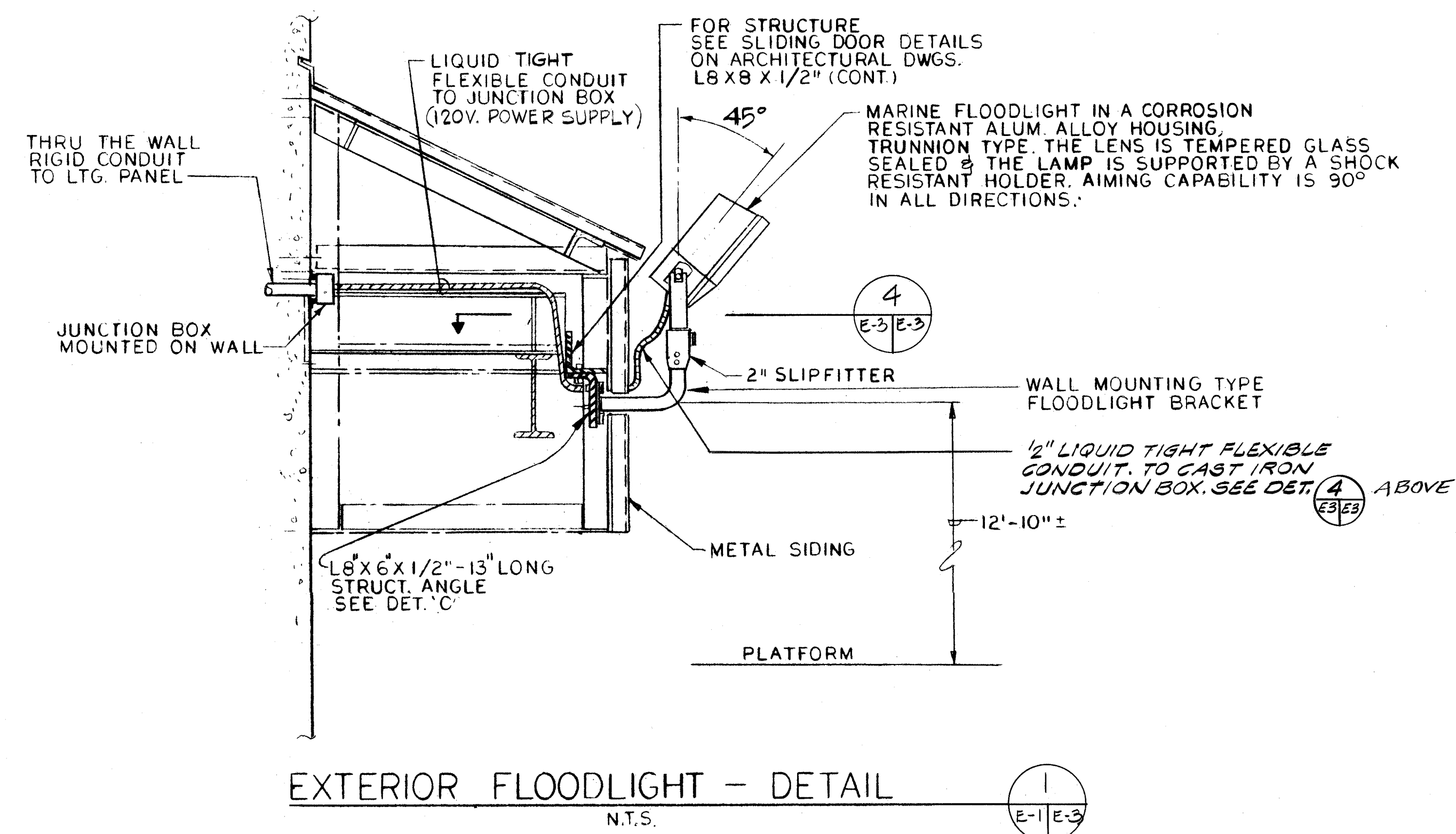
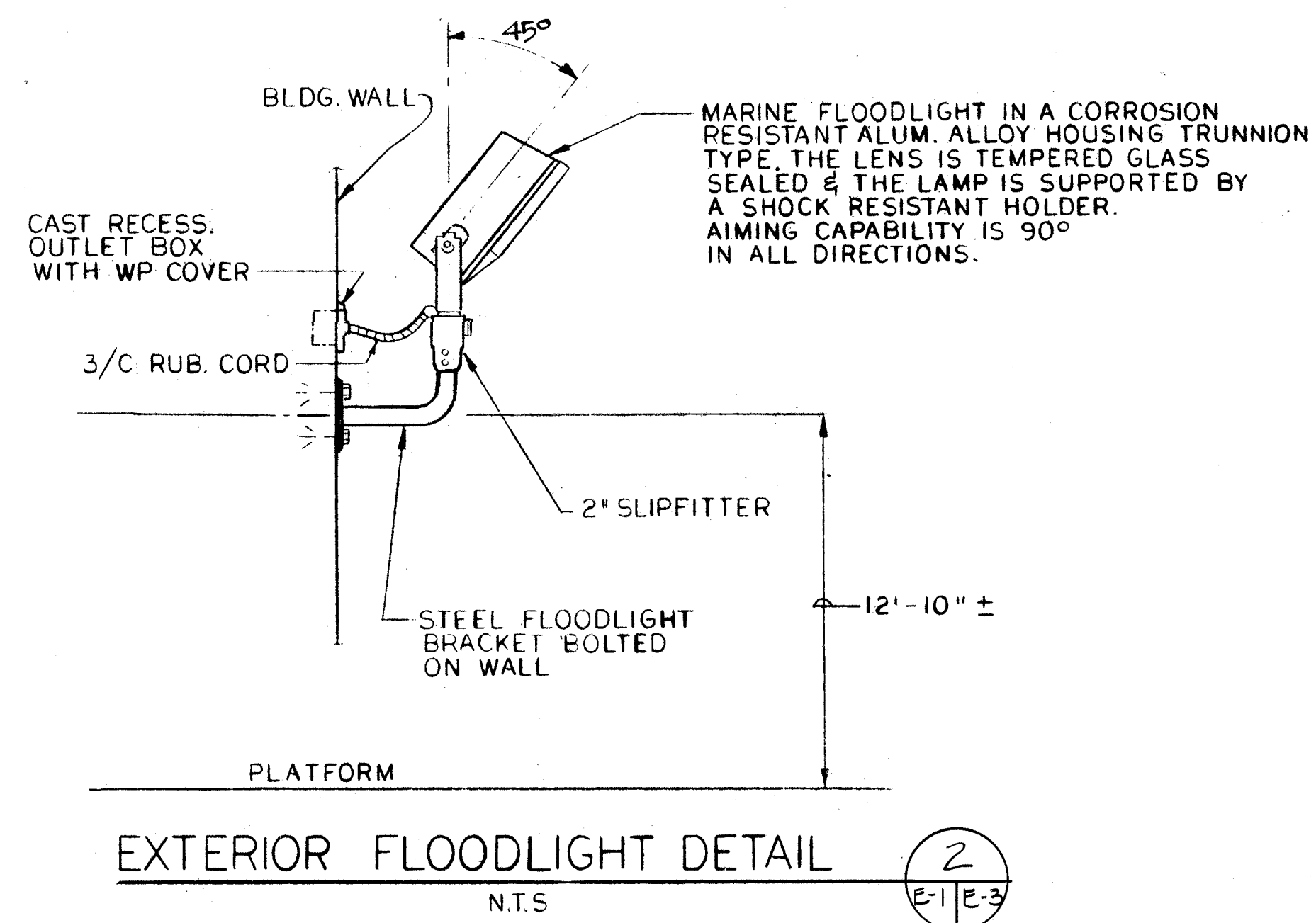
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST. N.Y., N.Y.		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20360	
E. LANG PRINCIPAL DATE 4-29-57		NAVAL FACILITIES ENGINEERING COMMAND	
W. J. WILSON ENGINEER IN CHARGE		STANDARD DRAWING BOX MAGAZINE TYPE E GROUNDING PLAN AND DETAILS	
R. A. BA... DATE 5/1/57		SIZE F	CODE IDENT NO 80091
DATE 6/30/57		NAVAC DRAWING NUMBER 1404535	E-2
DATE 6/30/57		SCALE AS NOTED	SHEET 13
DATE 6/30/57		CONTRACT NO	OF 15
DATE 6/30/57		DRAWING CODE 421	WFE NO NFSS-M44



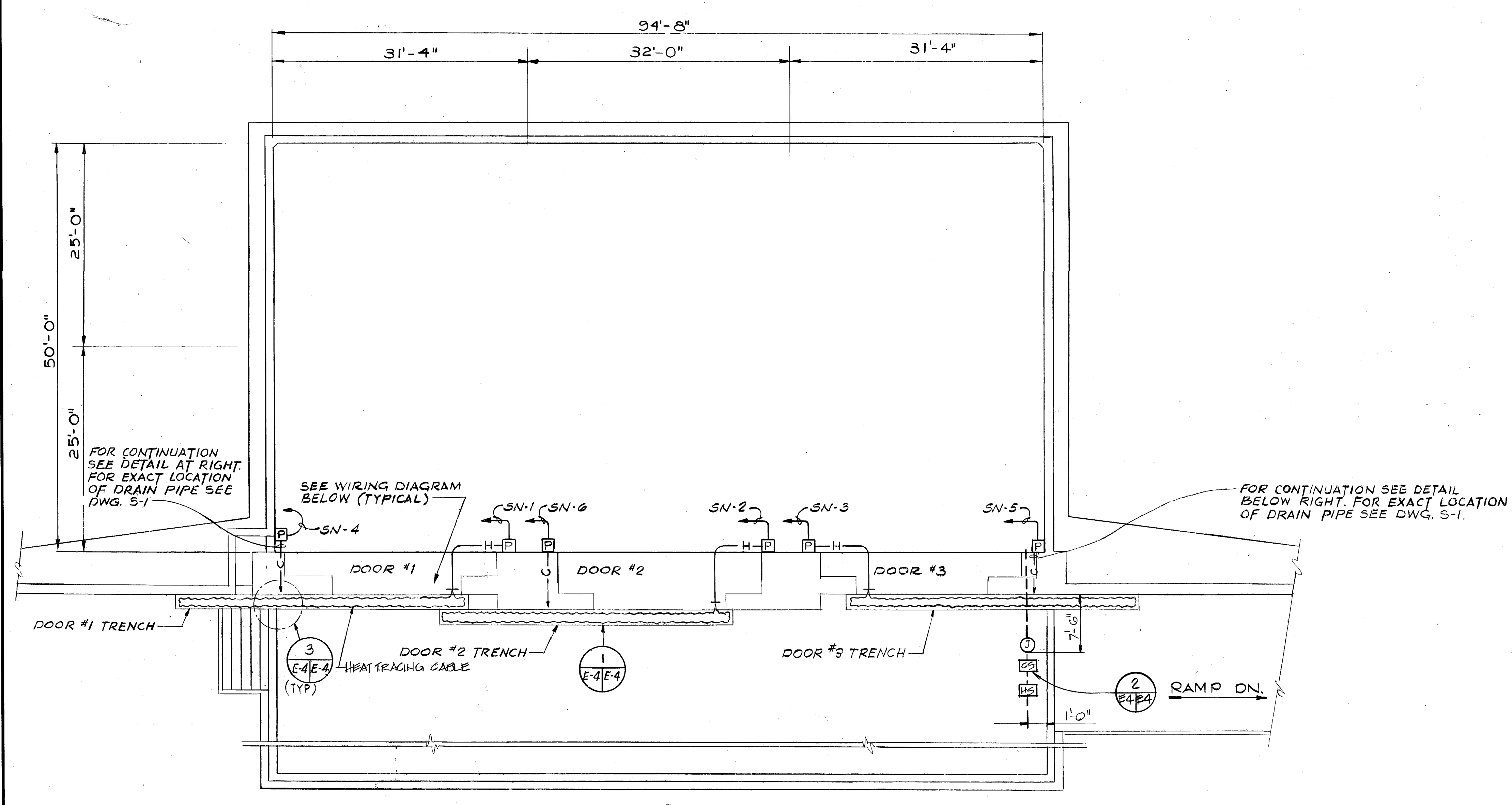
SLIDING DOOR SCHEMATIC DIAGRAM
TYPICAL FOR DOOR #1, DOOR #2 AND DOOR #3



SLIDING DOOR WIRING INSTALLATION DIAGRAM
TYPICAL FOR DOOR #1, DOOR #2 AND DOOR #3



SYMBOL	DESCRIPTION	PREPARED BY	DATE	APPROVED BY
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST. N.Y., N.Y.		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20360		
E. LAING PRINCIPAL DATE: 4-23-87		NAVAL FACILITIES ENGINEERING COMMAND		
R. R. ... ENGINEER IN CHARGE		STANDARD DRAWING BOX MAGAZINE TYPE E SCHEMATIC DIAGRAMS AND DETAILS		
R. R. ... DATE: 5/18/87		SIZE: F	CODE IDENT NO: 80091	NAVFAC DRAWING NUMBER: 1404536
DATE: 5/20/87		SCALE: AS NOTED	CONTRACT NO:	SHEET 14 OF 15
DATE: 5/20/87		CATEGORY CODE: 421	SPEC NO: NFSS - M44	



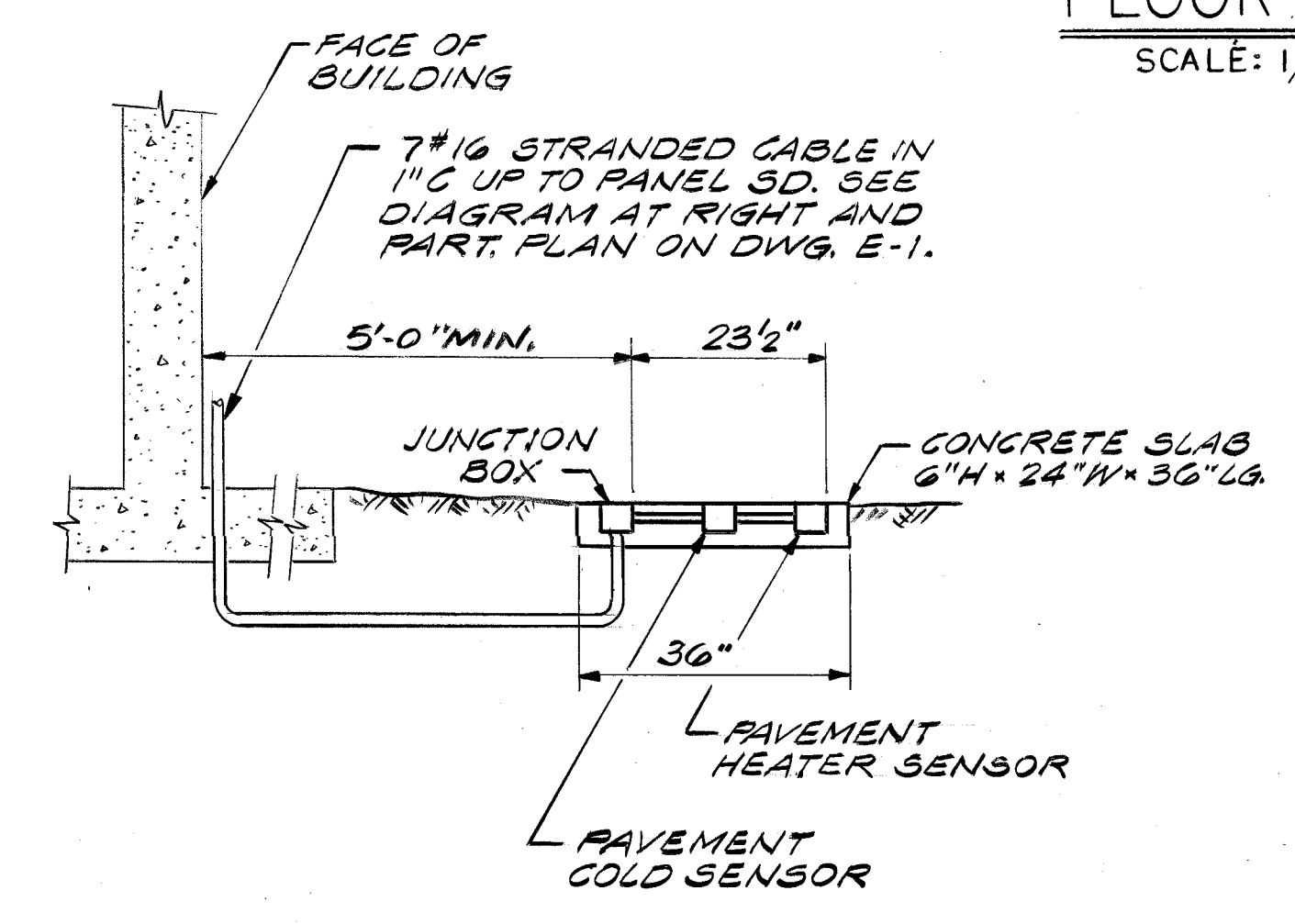
- NOTE:**
1. FOR GENERAL NOTES SEE DWG. E-1
 2. FOR PANEL SCHEDULE SEE DWG. E-1
 3. THE BASIS OF DESIGN FOR THE SNOW MELTING SYSTEM ON THIS DRAWING IS A HEAT DENSITY OF 60 W/FT.² AS PER ASHRAE. ALL A/E'S SITE ADAPTING EACH BUILDING WHERE SNOW MELTING IS TO BE INSTALLED SHALL USE THE PROPER HEAT DENSITY FOR THAT PARTICULAR GEOGRAPHIC AREA AS PER THE ASHRAE SYSTEMS HANDBOOK, CHAPTER "SNOW MELTING", CLASS III.
 4. FOR LOCATION OF SNOW MELTING PANEL SN, PANEL SD, CONTACTOR, BY-PASS SWITCH AND SENSORS, SEE DWG. E-1.

PANEL SCHEDULE (SEE NOTE #3)

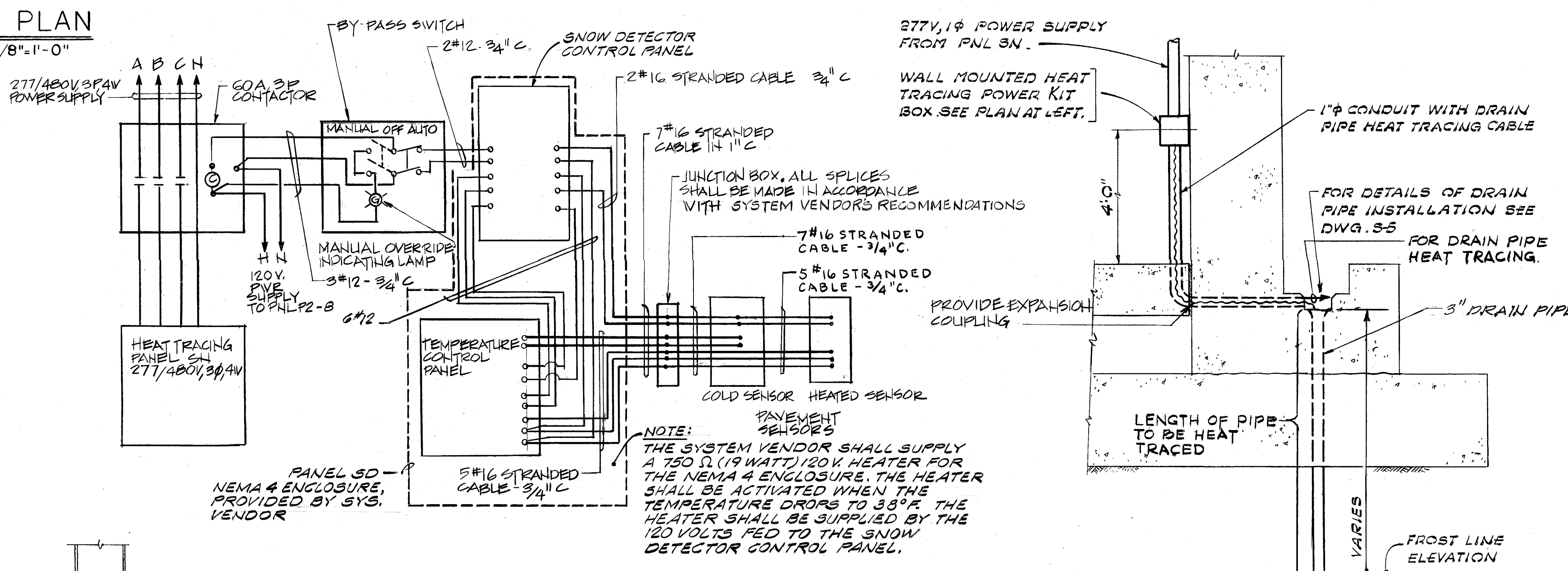
PANEL	CKT NO.	BREAKER POLES	AMPS	WIRE NO.	AWG	COND SIZE	LOAD IN KVA	EQUIPMENT
PANEL SN	1	1	20	2	12	3/4	4.4	DOOR #1 HEAT TRACING
	2	1	20	2	12	3/4	4.4	DOOR #2 HEAT TRACING
	3	1	20	2	12	3/4	4.4	DOOR #3 HEAT TRACING
	4	1	15	2	12	3/4	3.3	DRAIN PIPE HEAT TRACING
	5	1	15	2	12	3/4	3.3	DRAIN PIPE HEAT TRACING
	6	1	15	2	12	3/4	3.3	DRAIN PIPE HEAT TRACING
	7	1	20	-	-	-	1.0	SPARE
	8	1	15	-	-	-	1.0	SPARE

TOTAL CONNECTED LOAD 25.1

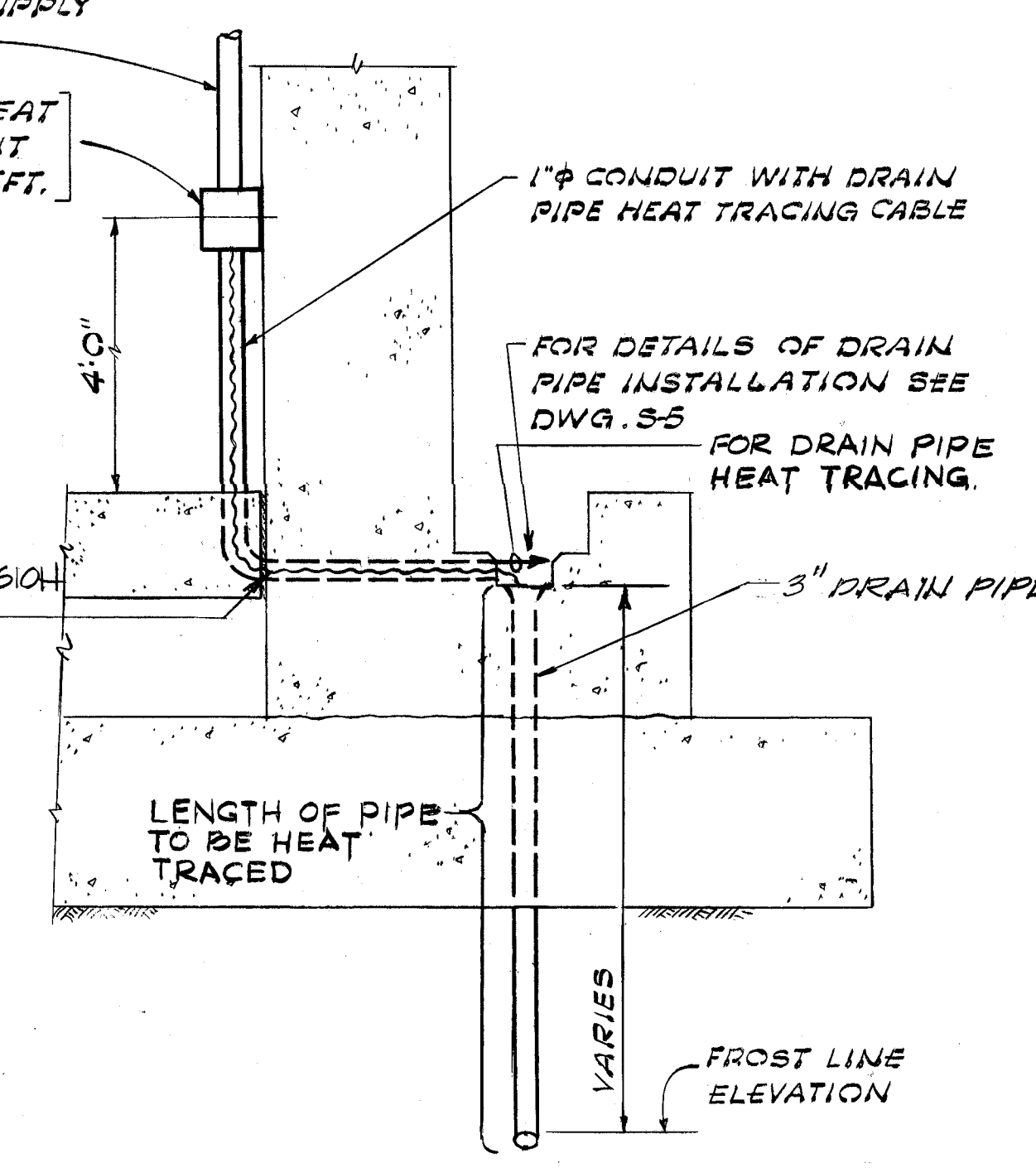
FLOOR PLAN
SCALE: 1/8"=1'-0"



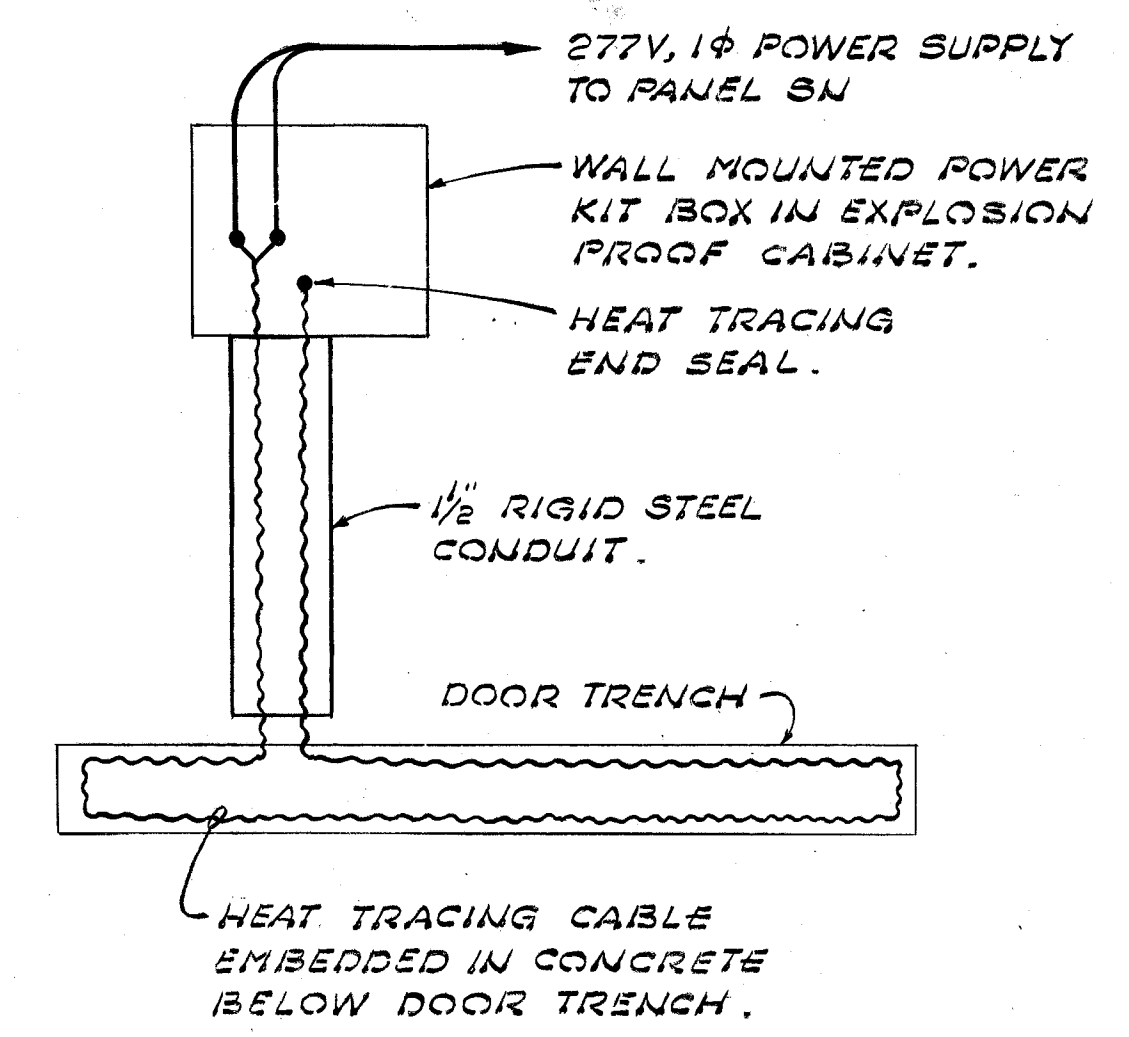
SNOW SENSORS LOCATION DETAIL (2)
N.T.S.



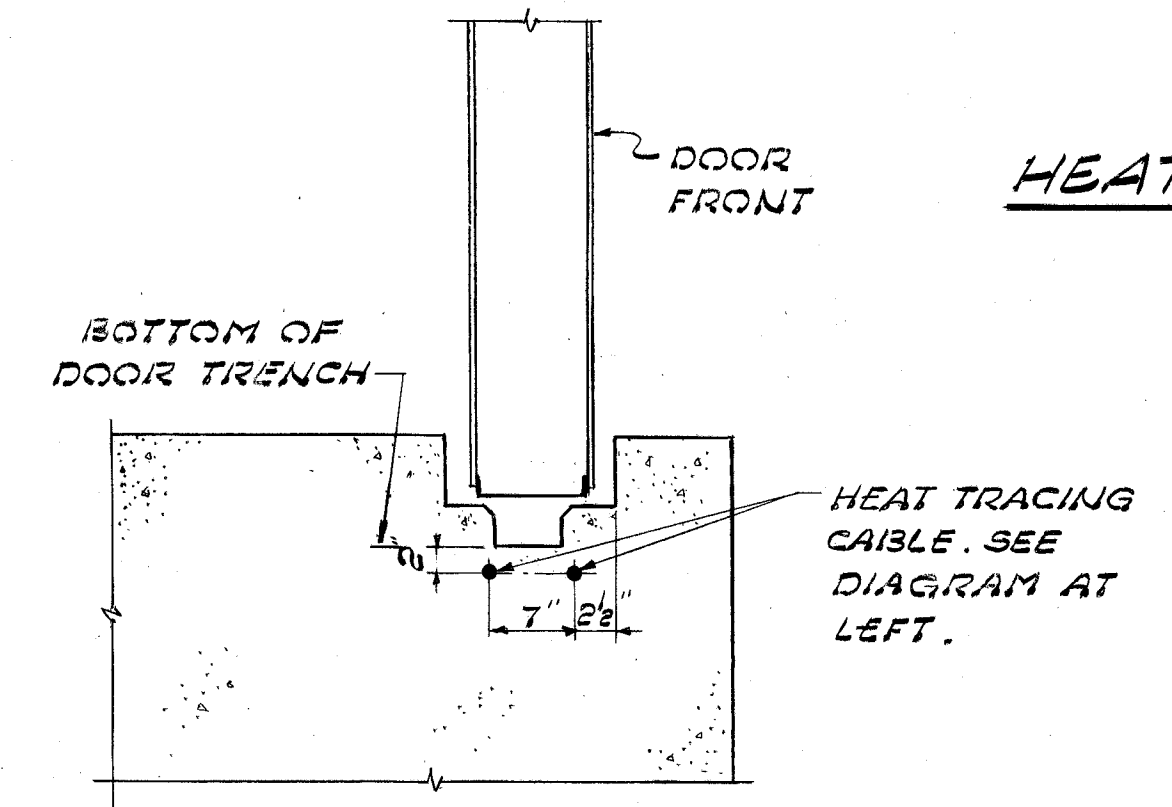
HEAT TRACING WIRING DIAGRAM
N.T.S.



DRAIN PIPE HEAT TRACING DETAIL (3)
NOT TO SCALE



TYPICAL DOOR TRENCH HEAT TRACING WIRING DIAGRAM
NOT TO SCALE

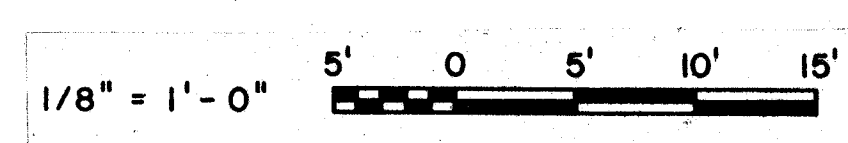


HEAT TRACING CABLE DETAIL (1)
NOT TO SCALE

SYMBOLS (THIS DRAWING ONLY)

- RIGID STEEL CONDUIT RUN UNDERGROUND ENCASED IN CONCRETE WITH A MIN 3" COVER
- [P] HEAT TRACING POWER KIT BOX IN EXPLOSION PROOF ENCLOSURE.
- H- 1/2" RIGID STEEL CONDUIT WITH HEAT TRACING CABLE. CONDUIT CONCEALED IN CONCRETE FLOOR.
- ~ HEAT TRACING CABLE - 277V, 1φ
- C- 1" RIGID STEEL CONDUIT WITH DRAIN PIPE HEAT TRACING CABLE. CONDUIT EMBEDDED IN CONCRETE.
- [C] CONTACTOR COIL 120 V
- [J] JUNCTION BOX

IF THE DRAWING IS A REDUCTION GRAPHIC SCALE MUST BE USED



REVISIONS		PREPARED BY	DATE	APPROVED BY

AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST. N.Y., N.Y.		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20360	
ELIANG PRINCIPAL DATE: 4-23-57		NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING BOX MAGAZINE TYPE E HEAT TRACING	
SIZE: F CODE IDENT NO: 80091	DRAWING NUMBER: 1404537	SHEET: E-4	OF: 15
SCALE: AS NOTED		CONTRACT NO:	SHEET: 15
CATEGORY CODE: 421		SPEC NO: NFSS-M44	OF: 15