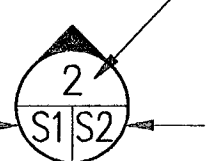

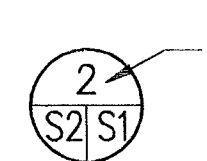


GENERAL NOTES:

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF $f'_c=4,000$ PSI AT 28 DAYS AND SHALL HAVE A MINIMUM DENSITY OF 145 PCF.
- ALL REINFORCING BARS SHALL CONFORM TO THE SPECIFICATION FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A615, GRADE 60, EXCEPT AS NOTED.
- CONCRETE AGGREGATE SHALL HAVE A MAXIMUM SIZE OF $\frac{3}{4}$ INCH.
- ALL REINFORCING BARS SHALL BE CONTINUOUS IN ANY ONE DIRECTION EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS.
- REINFORCING BARS USED AS WELDED REBAR ANCHORS SHALL CONFORM TO THE SPECIFICATION FOR LOW ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A 706, GRADE 60.
- 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, PLATES AND BARS SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL STEEL, ASTM DESIGNATION A36.
- METAL ROOFING AND SIDING SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL SHEET STEEL, ASTM A446.
- 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.
- UNLESS NOTED ON DRAWINGS, SPLICE LENGTH OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AC1 318 (LATEST EDITION) FOR CLASS B 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 AC1 318, LATEST EDITION.
- HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED EXCEPT AS SHOWN ON DRAWINGS S-4, S-5, S-6, S-7, S-8, S-9, S-11, S-12, S-13, S-15 & S-16.
- ALL TOPSOIL, ORGANIC MATERIAL AND OTHER UNSUITABLE MATERIALS BENEATH MAGAZINE STRUCTURE SHALL BE REMOVED TO SUITABLE BEARING STRATUM AND REPLACED WITH STRUCTURAL FILL TO THE REQUIRED ELEVATION.
- ALL STRUCTURAL FILL SHALL CONFORM TO ASTM C 33, SIZE 57 & SHALL BE COMPACTED IN ACCORDANCE WITH ASTM D 1557. THE TOP 12 INCHES OF STRUCTURAL FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 6 INCHES & EACH LIFT COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY. BENEATH THE TOP 12 INCHES, STRUCTURAL FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES & EACH LIFT COMPACTED TO 90 PERCENT OF MAXIMUM DENSITY.
- EQUIPMENT WEIGHING MORE THAN 3000 LBS SHALL NOT BE USED ON THE STRUCTURE ROOF NOR WITHIN TEN (10) FEET FROM THE EDGE OF THE FOUNDATIONS.

18. TAKEN ON THIS SHEET NO.  WALL SECT./ ELEV. MARK SHOWN ON THIS SHEET NO.  BLDG. SECT.  DETAIL

SOIL DATA

MAGAZINE:

- A. ALLOWABLE SOIL BEARING PRESSURE = 4,000 PSF
- B. ALLOWABLE DYNAMIC RESPONSE FACTOR (SOIL BEARING) = 2.5
- C. ALLOWABLE LATERAL SOIL PRESSURE COEFFICIENT
 - a) MAGAZINE WALLS = 0.5
 - b) WING WALLS = 0.3
- D. ALLOWABLE COEFFICIENT OF FRICTION (CONCRETE ON SOIL) = 0.50
- E. MODULUS OF SUBGRADE REACTION = 150 PCI - 250 PCI

DESIGN LOADS

STATIC LOADS:

- A. ROOF DEAD LOAD (1 1/2 FT. EARTH FILL + 6 IN. (GRAVEL)) = 200 PSF
- B. FLOOR LOADS
 - a) UNIFORM STORAGE LIVE LOAD = 2000 PSF
 - b) FORKLIFT WHEEL LOAD:
 - BASED ON DREXEL MODEL NO. SL-88-ESS = 8000 LB MAX LOAD
 - MAXIMUM WHEEL LOAD = 26,000 LBS
 - WHEEL CONTACT AREA = 65 SQ. IN.
- C. PLATFORM AND RAMP LIVE LOAD = 1000 PSF
- D. ROOF LIVE LOAD = 100 PSF

SEISMIC LOADS:

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

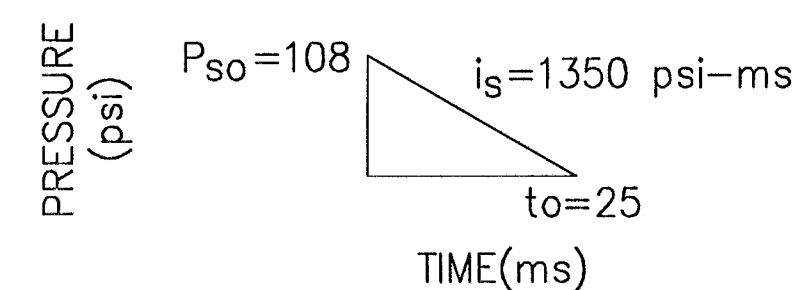
WIND LOADS:

NAVFAC DM-2.02, 132 MPH PEAK VELOCITY

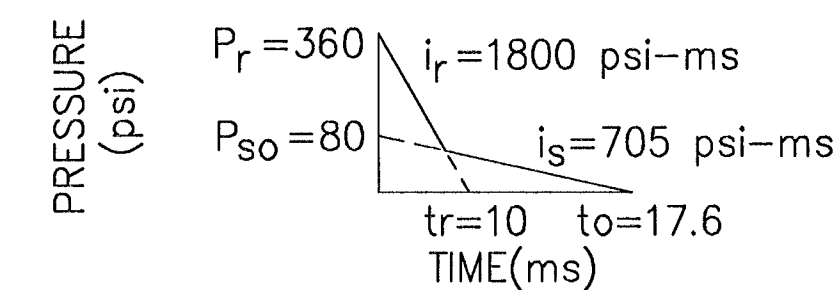
BLAST LOADS:

NAVSEA OP 5
BASED ON INTERMAGAZINE SEPARATION DISTANCES FOR A QUANTITY (W) OF H.E. EQUAL TO 350,000 LBS AS FOLLOWS:

- A. ROOF: DONOR MAGAZINE LOCATED AT $2W^{1/3}$ TO THE REAR OF THE ACCEPTOR MAGAZINE.
- B. HEADWALL: DONOR MAGAZINE LOCATED AT $2W^{1/3}$ TO THE FRONT OF THE ACCEPTOR MAGAZINE.



ROOF LOADING



HEAD WALL LOADING

STANDARD DRAWING NOTE:
THIS DRAWING SET, NAVFAC DRAWINGS 6448555 THRU 6448588, WAS APPROVED AS THE STANDARD 7-BAR EARTH COVERED MAGAZINE DESIGN FOR THE HSILS TYPE D BOX MAGAZINE 27 MAY 1997.

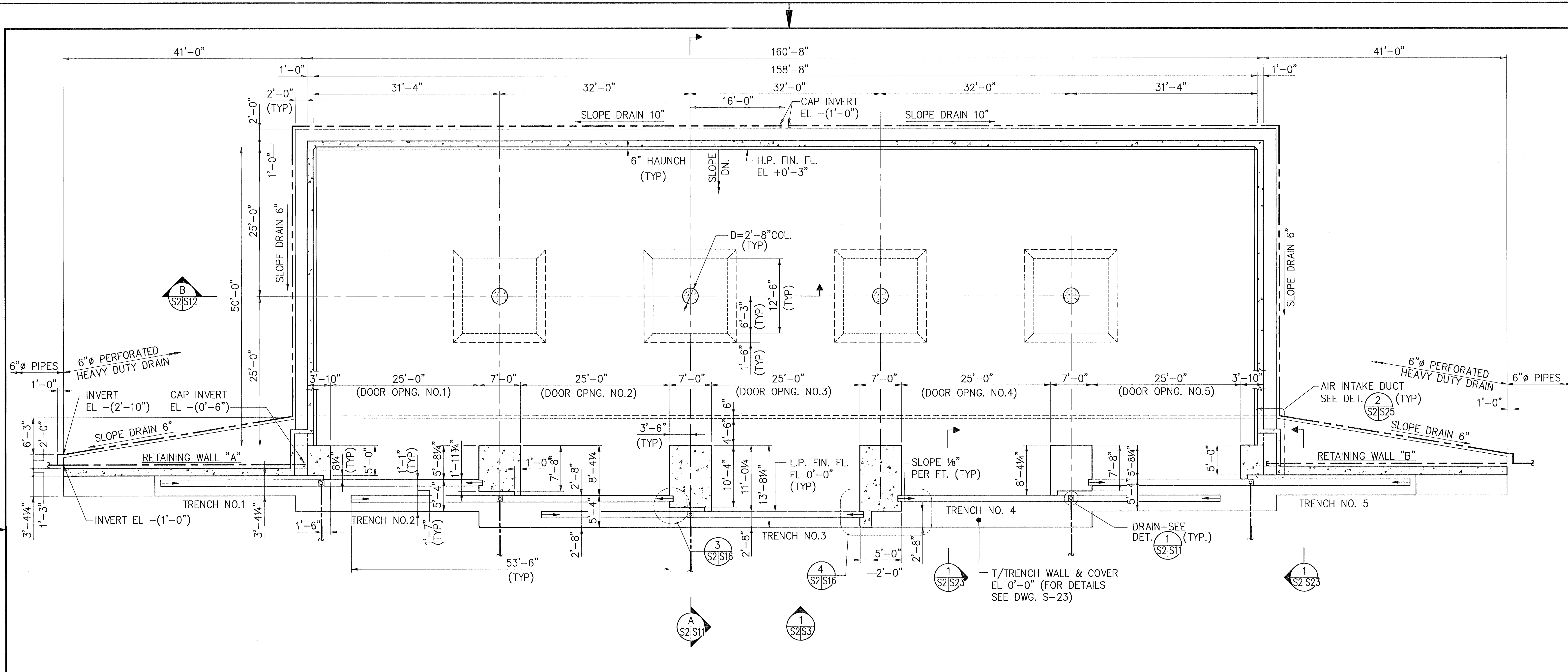
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

DEFLECTION CRITERIA

MAXIMUM SUPPORT ROTATIONS OR DUCTILITY RATIO:

- A. ROOF SLAB = 8°
- B. HEAD WALL = 6°
- C. HEADER BEAM = 2°
- D. PILASTERS X_M/X_E = 3.0
- E. BLAST DOORS = 12°

SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MADISON ST., NEW YORK, NY 10014		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350		
NAVAL FACILITIES ENGINEERING COMMAND		STANDARD DRAWING		
HSILS BOX MAGAZINE TYPE 'D'		GENERAL NOTES		
DATE	27/5/97	SIZE	CODE BENT NO.	NAVFAC DRAWING NUMBER
ENGINEER IN CHARGE	<i>Ron Brady</i>	D	80091	6,448,555
BRANCH MANAGER	<i>Ron Brady</i>	SCALE	CONTRACT NO.	SHEET 1 OF 34
CHECKER	<i>Ron Brady</i>	CATEGORY CODE	SPEC NO.	
APPROVED	<i>Ron Brady</i>	FOR COMMANDER NAVFACENCOM		



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

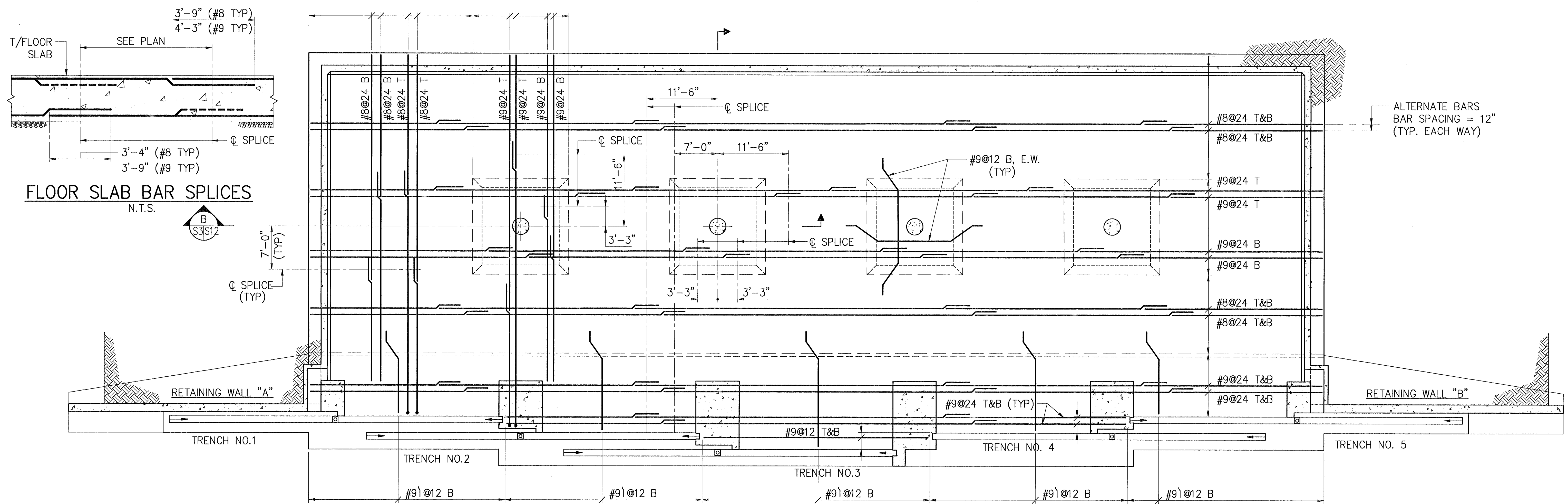
NOTES:

- DATUM ELEVATION 0'-0" TAKEN AS TOP OF TRENCH WALL AND TOP OF TRENCH COVER. FOR ACTUAL ELEVATION SEE CIVIL DRAWINGS.
- FOR CONTINUATION OF BUILDING DRAINS SEE CIVIL DRAWINGS.

IF SHEET IS LESS THAN
(22" x 34")
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY

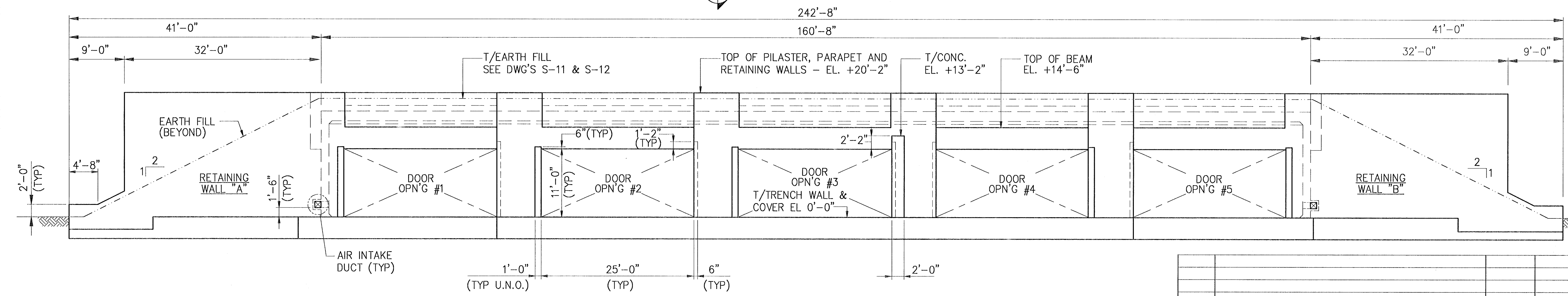
1/8" = 1'-0"

SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MADISON ST., NEW YORK, NY 10014				
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350				
NAVAL FACILITIES ENGINEERING COMMAND				
STANDARD DRAWING				
HSILS BOX MAGAZINE TYPE 'D'				
FLOOR PLAN (W/O PLATFORM)				
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	S-2	
D	80091	6,448,556		
SCALE	1/8" = 1'-0"	CONTRACT NO		
CATEGORY CODE		SPEC NO	OF 34	



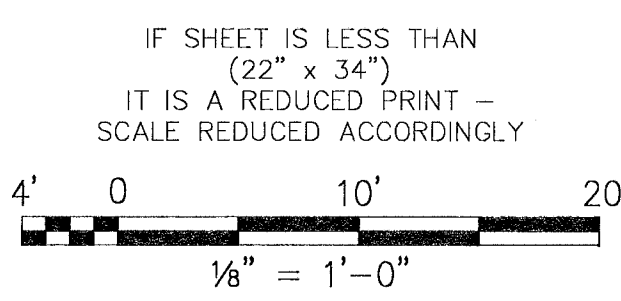
FLOOR SLAB BAR SPLICES
N.T.S.

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

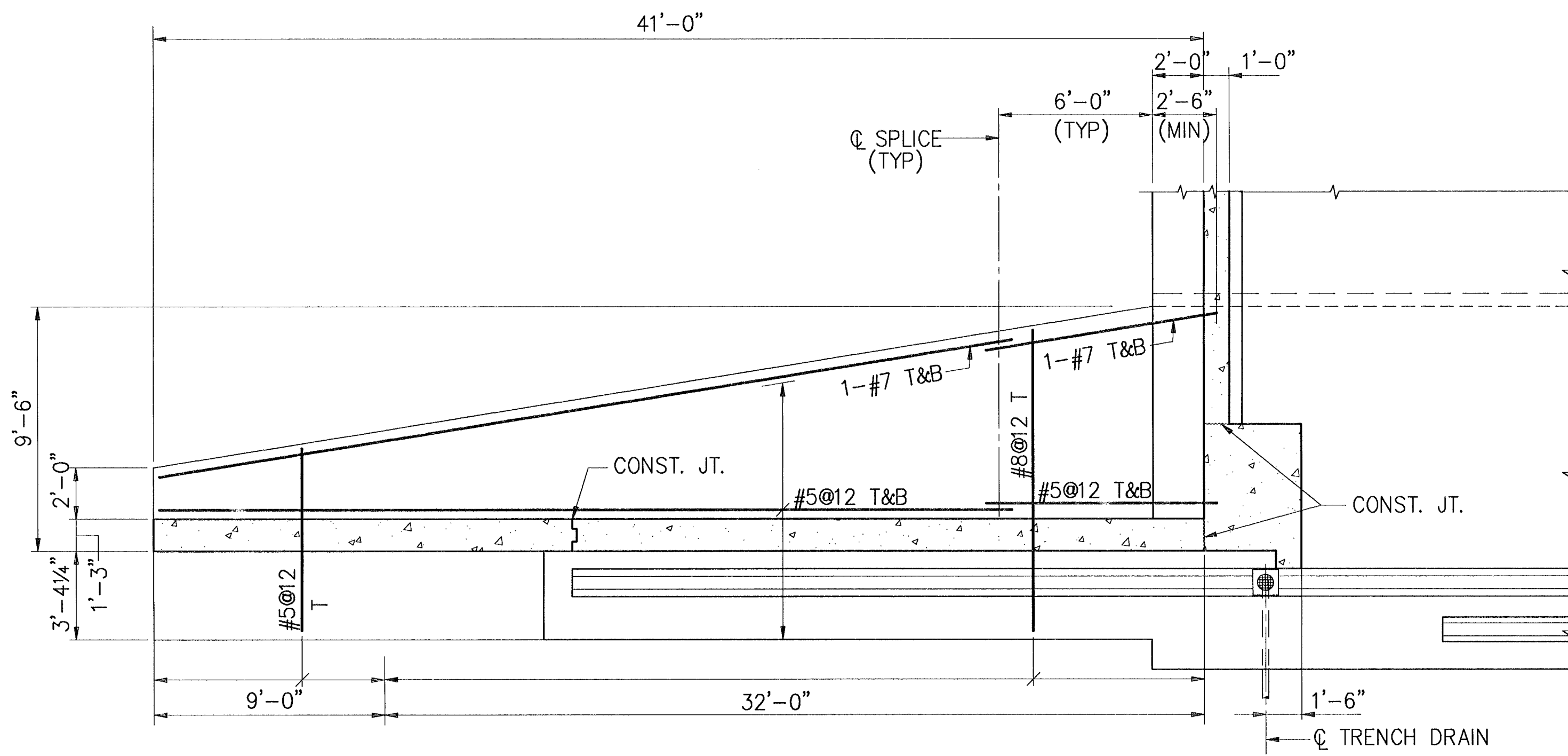


ELEVATION 1
SCALE: 1/8"=1'-0"

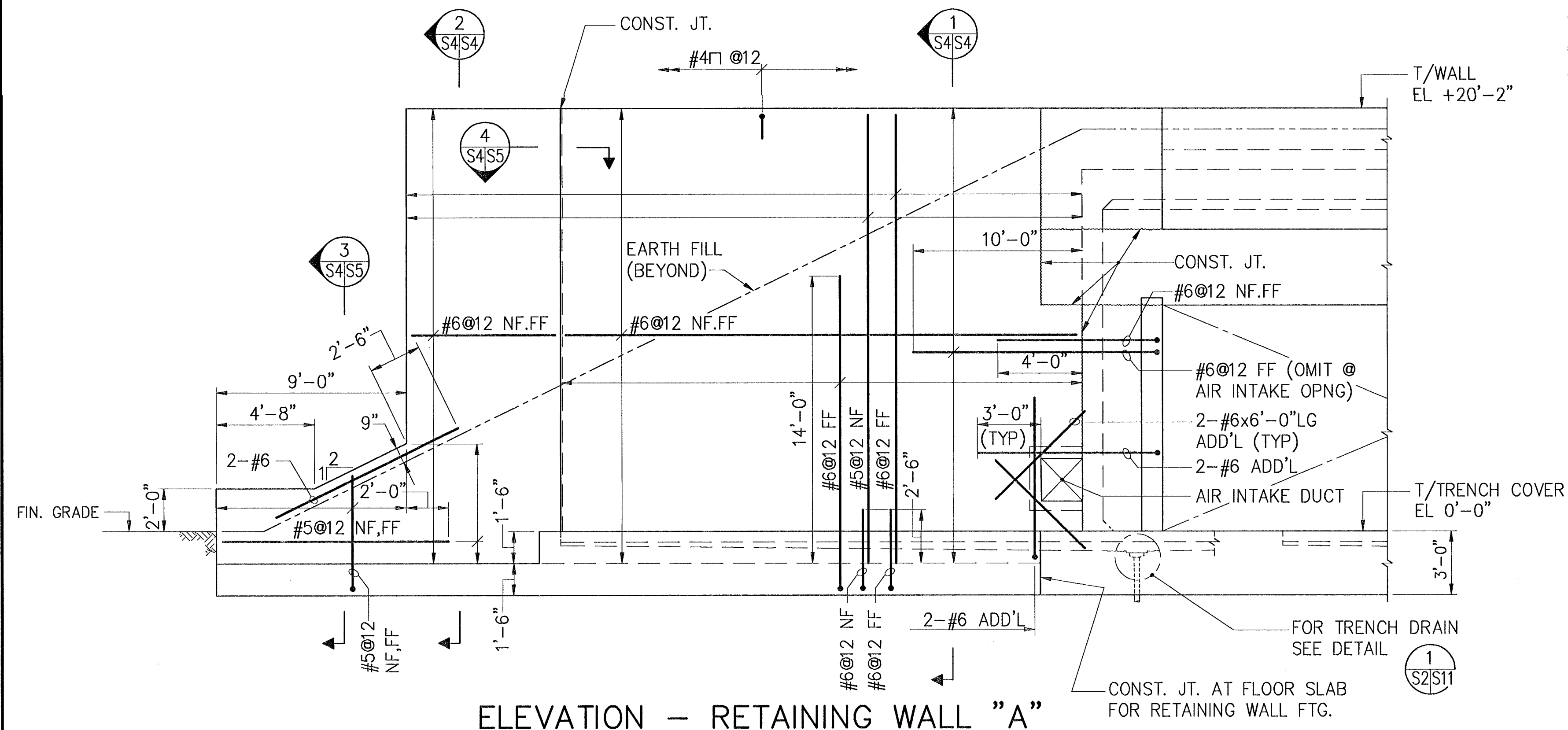
- NOTES:**
- FOR "RETAINING WALL ELEVATION" SEE DWG. S-4.
 - FOR ADDITIONAL REINFORCING AT DOOR TRENCHES SEE DWG'S S-14, S-15 & S-16.
 - FOR STAGGERED SPLICES: BAR SPLICE INDICATED THIS ALTERNATE BAR SPLICE INDICATED THIS SEE SECTION "FLOOR SLAB BAR SPLICES" THIS DWG.



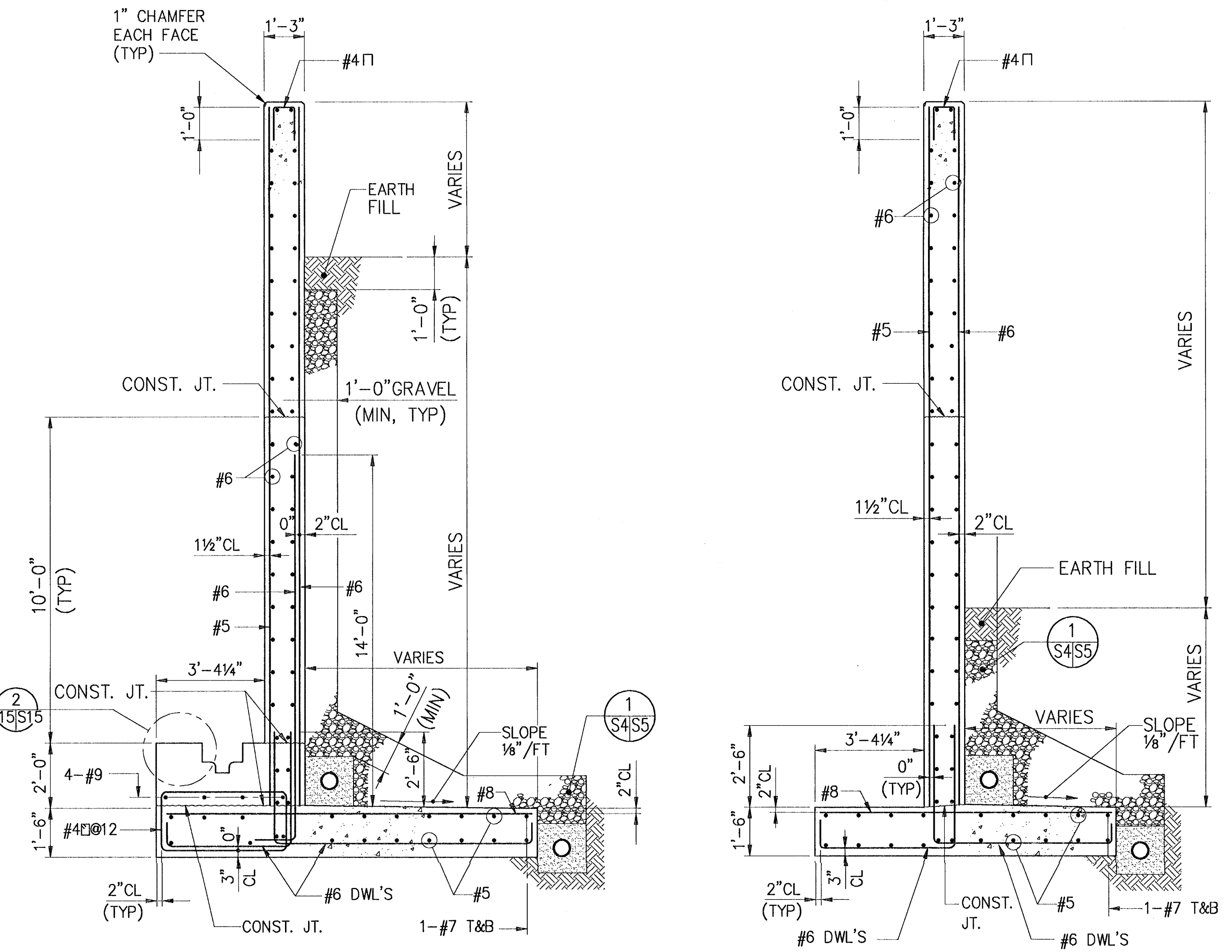
SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 95 HUDSON ST., NEW YORK, NY 10014						
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' FLOOR PLAN & HEADWALL ELEVATION (W/O PLATFORM)						
DATE	27/5/97	DATE		DATE		DATE
DESIGNED BY	R. Brody	BRANCH MANAGER	R. Brody	CHECKED BY	A. Hayden	DIVISION DIVISION
CRITERIA MANAGER		DATE		DATE		DATE
SCALE	1/8"=1'-0"	CONTRACT NO.	6,448,557	SHEET	3	OF
CATEGORY CODE		SPEC NO.				34



FOUNDATION PLAN
 (RETAINING WALL "A" AS SHOWN)
 (RETAINING WALL "B" OPP. HAND)
 SCALE: 1/4" = 1'-0"



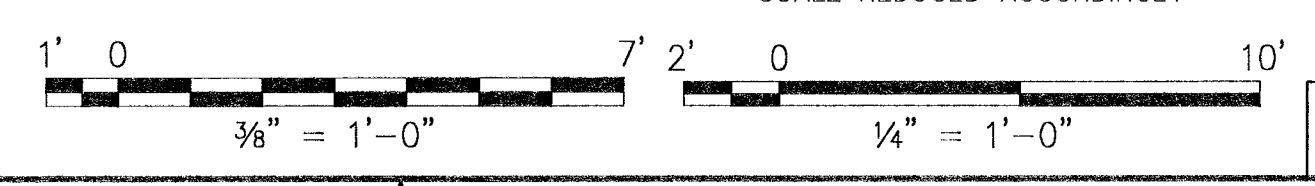
ELEVATION - RETAINING WALL "A"
 (RETAINING WALL "B" OPP. HAND)
 SCALE: 1/4" = 1'-0"



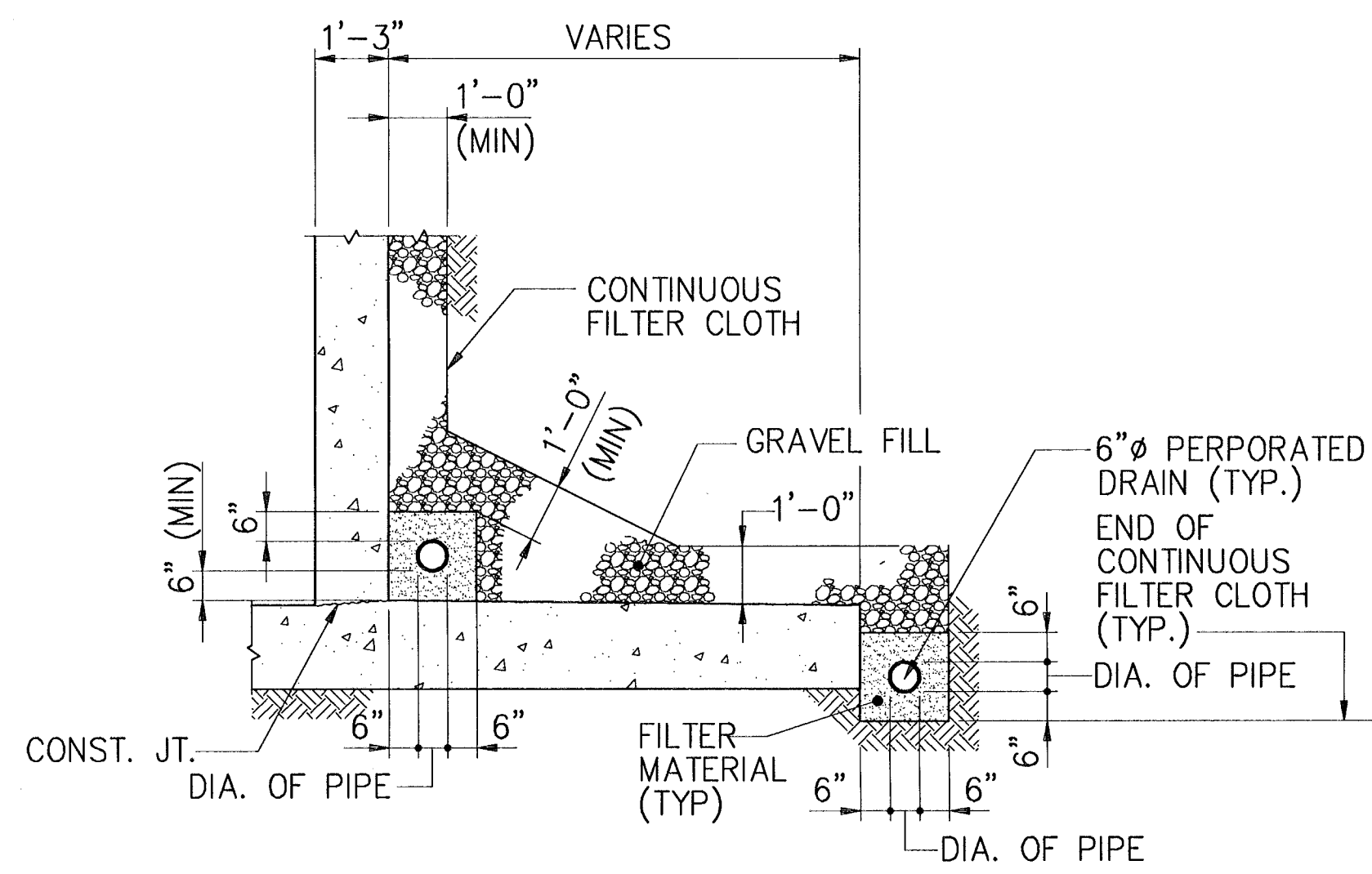
SECTION 1
 SCALE: 3/8" = 1'-0"

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

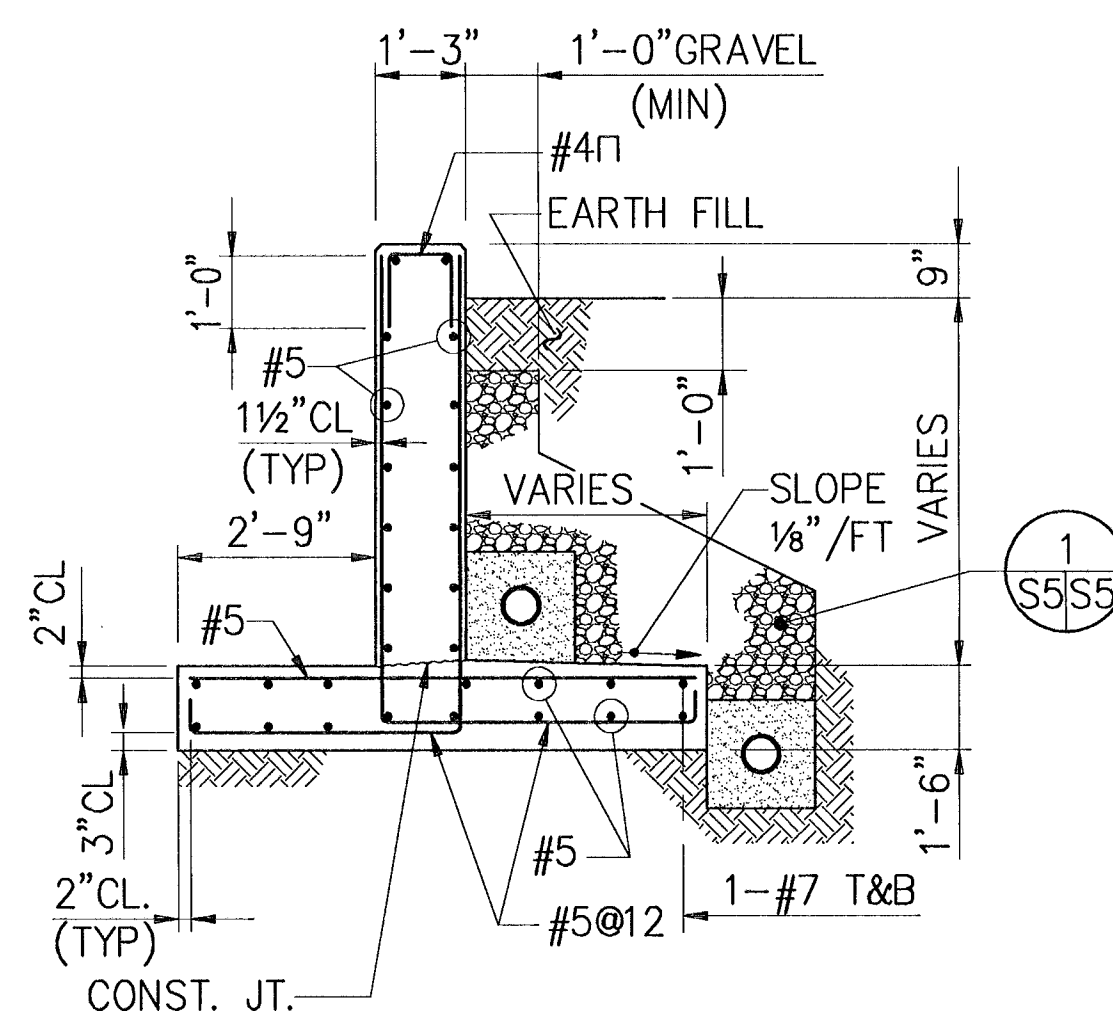
NOTE: FOR ALTERNATE EARTH FILL DRAINAGE SYSTEM SEE DWG. S-13.



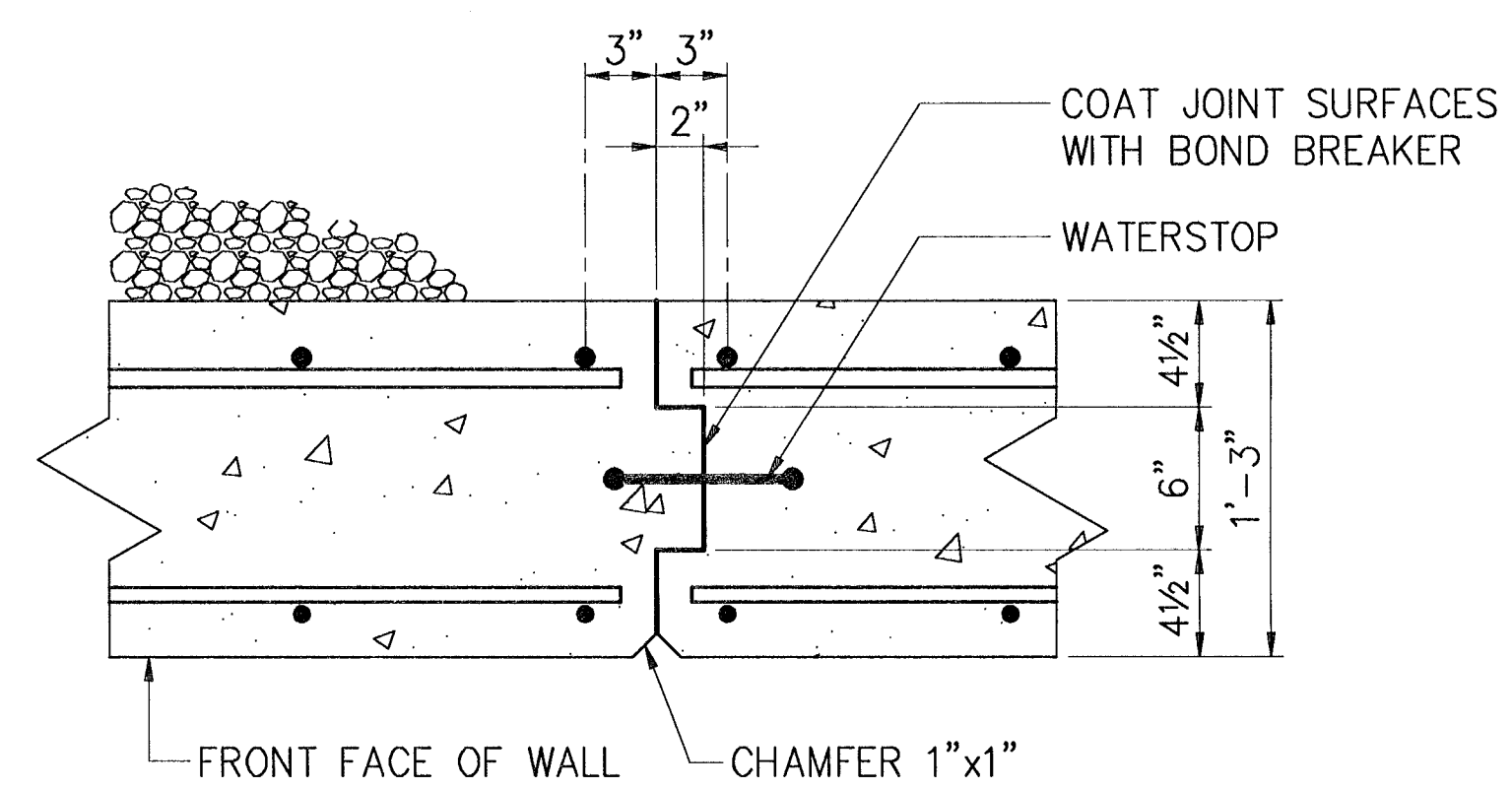
SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MARTIN ST., NEW YORK, NY 10014 DATE: 27/5/97						
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350						
NAVAL FACILITIES ENGINEERING COMMAND						
STANDARD DRAWING						
HSILS BOX MAGAZINE TYPE 'D'						
RETAINING WALL ELEVATION & SECTIONS (W/O PLATFORM)						
SIZE	CODE IDENT NO	NAFAC DRAWING NUMBER	6,448,558		S-4	
SCALE	1/4" = 1'-0"	CONTRACT NO			SHEET 4 OF 34	
CATEGORY CODE		SPEC NO				



DETAIL 1
SCALE: 3/8" = 1'-0" S5 S4 S5
(TYPICAL 6"Ø PERFORATED DRAIN)



SECTION 3
SCALE: 3/8" = 1'-0" S4 S5



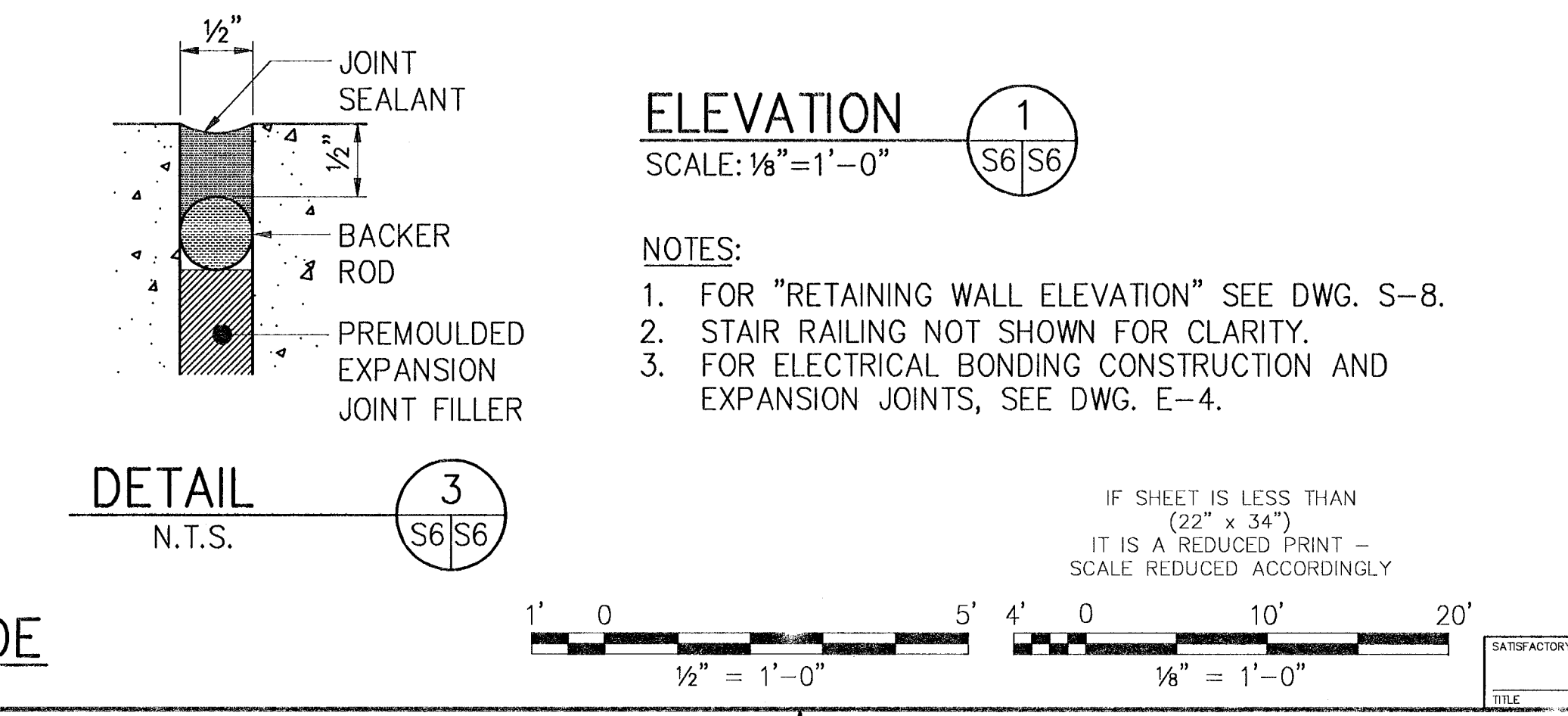
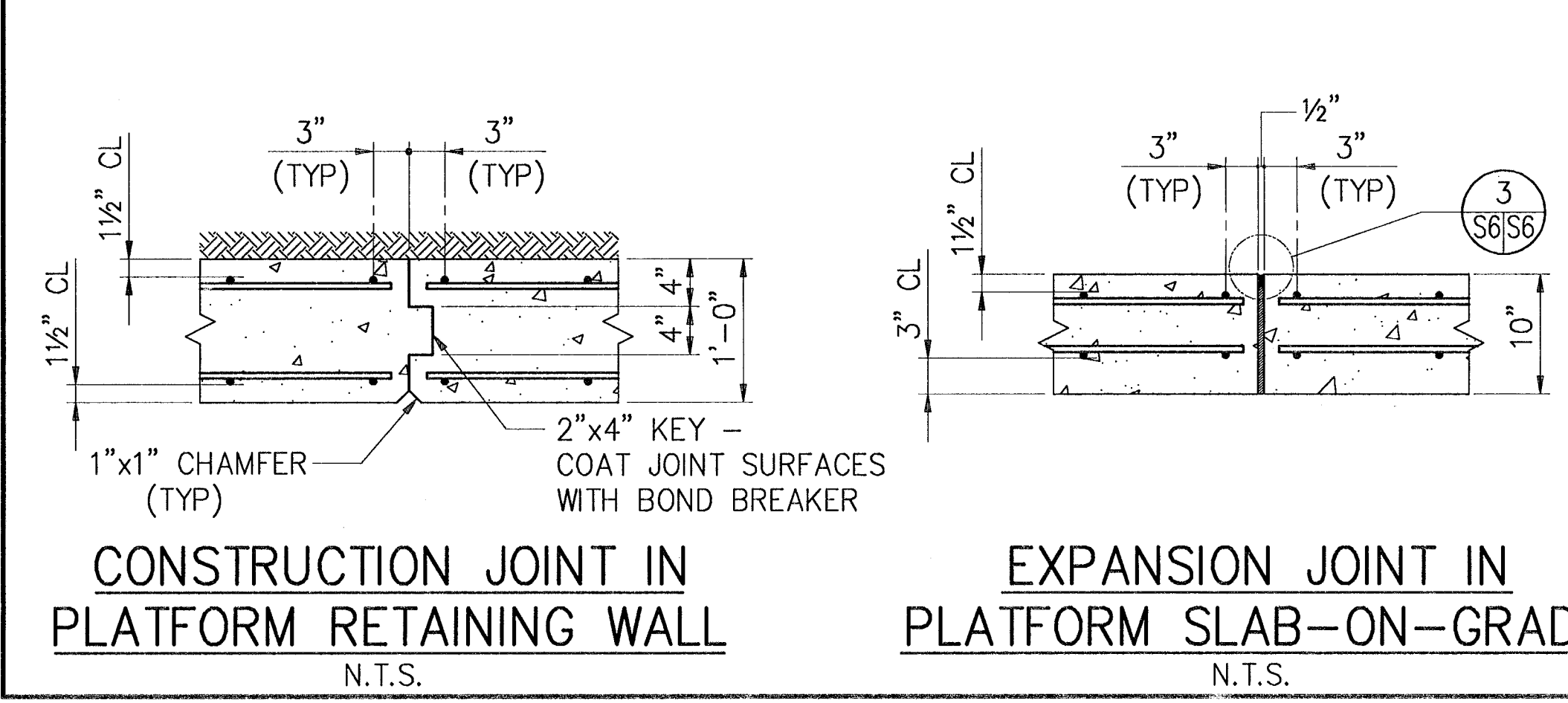
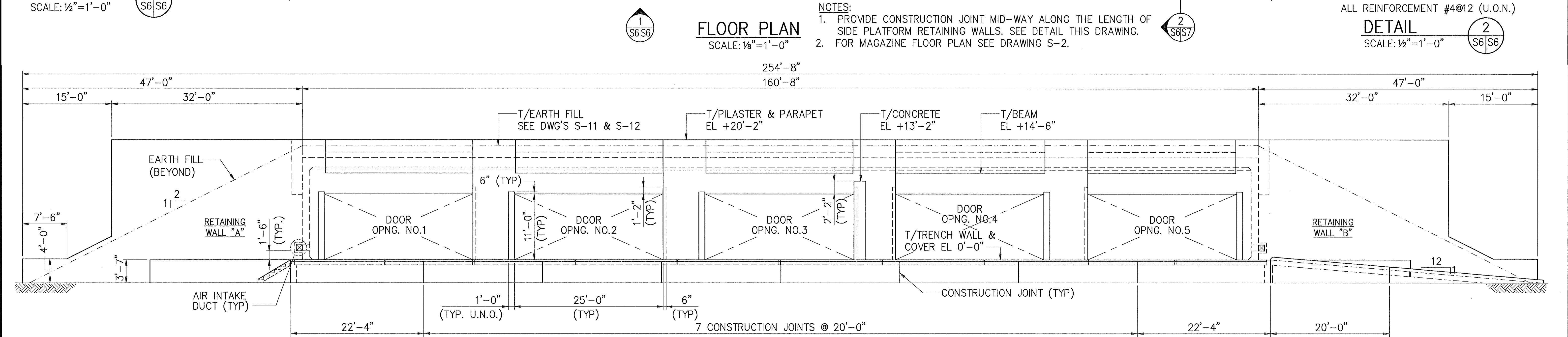
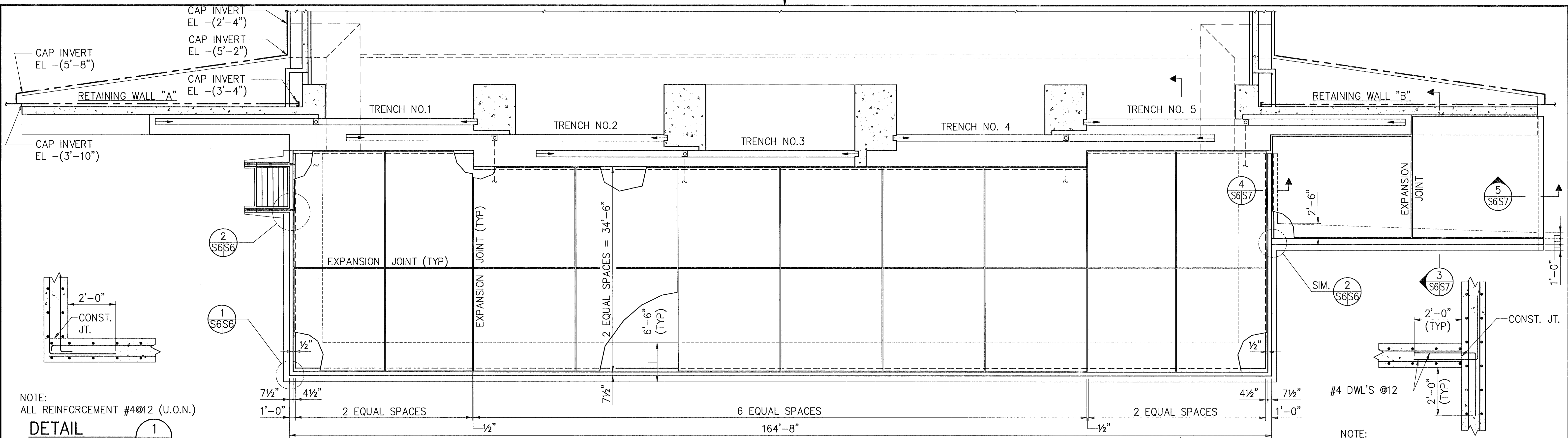
SECTION 4
SCALE: 1 1/2" = 1'-0" S4 S5

NOTE: FOR ALTERNATE EARTH FILL DRAINAGE SYSTEM SEE DWG. S-13.



IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 95 JERSEY ST., NEW YORK, NY 10014 DATE: 27/5/97 ENGINEER IN CHARGE: Ron Brady BRANCH MANAGER: R. Brady CRITERIA MANAGER: A. Graydon NAVFACINCDOM						
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' RETAINING WALL SECTIONS (W/O PLATFORM)						
SIZE: D	CODE IDENT NO: 80091	NAVFAC DRAWING NUMBER: 6,448,559	S-5			
SCALE: 3/8" = 1'-0"	CONTRACT NO:	SPEC NO:	SHEET 5 OF 34			



AMMANN & WHITNEY CONSULTING ENGINEERS
95 NORTON ST., NEW YORK, NY 10014

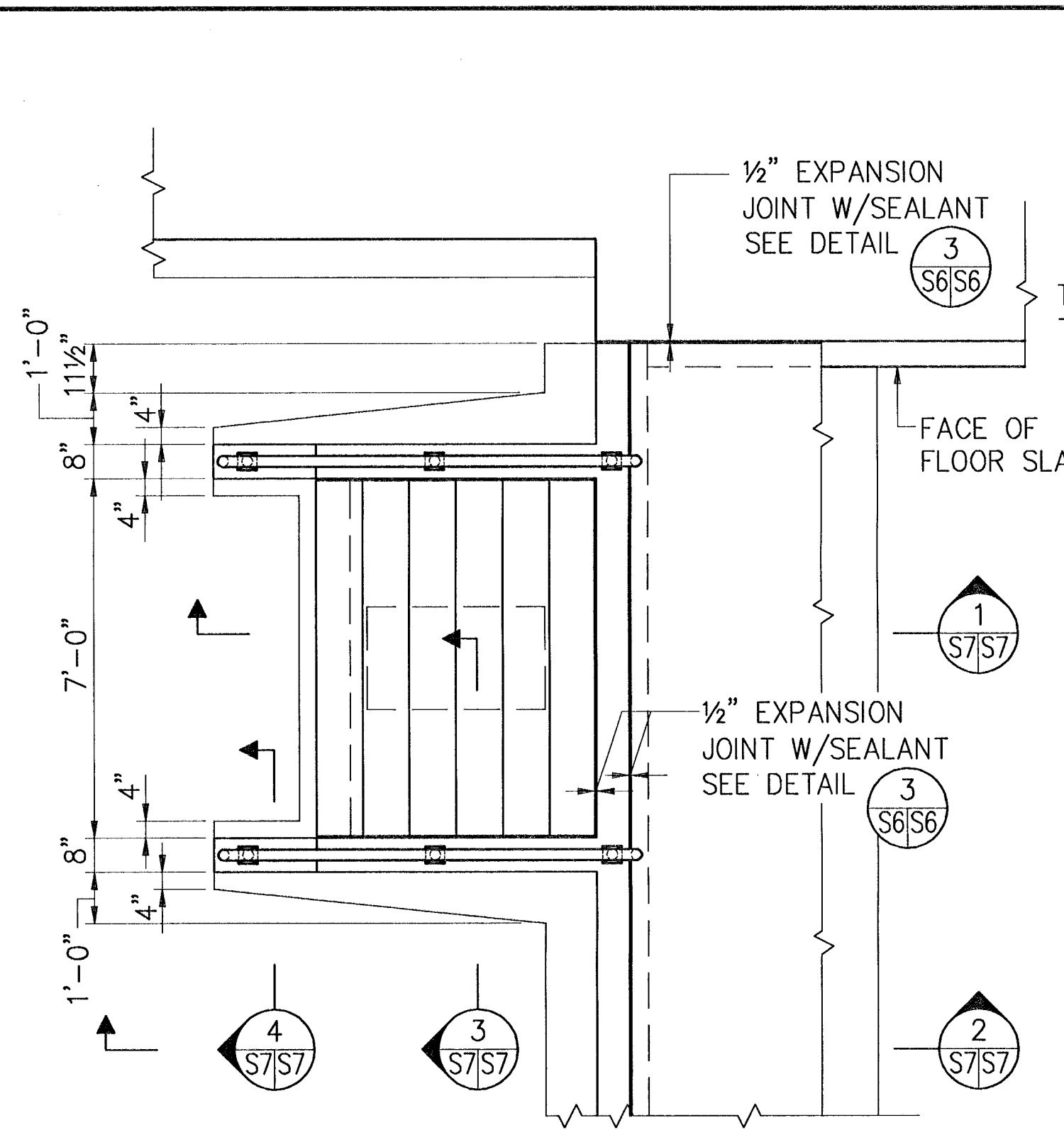
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
STANDARD DRAWING
HSILS BOX MAGAZINE TYPE 'D'
FLOOR PLAN & HEADWALL ELEVATION (W/PLATFORM)

DATE: 27/5/97

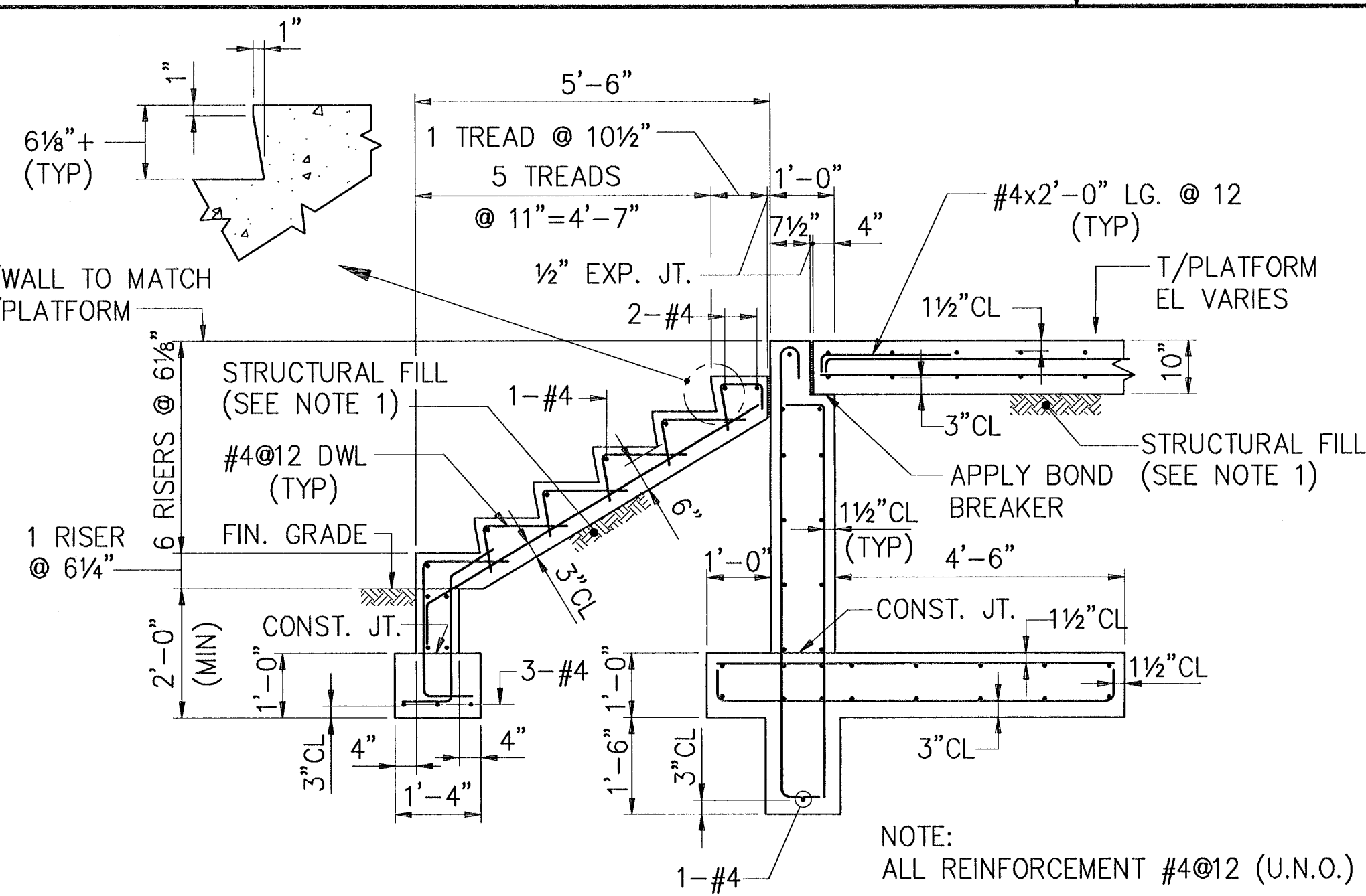
ENGINEER IN CHARGE: Ron Brady
BRANCH MANAGER: R. Brady
CRITERIA MANAGER: R. Brady
NAVFAECOM: R. Laydon

SIZE: D
CODE: 80091
NAVFAC DRAWING NUMBER: 6,448,560
SCALE: AS NOTED
CONTRACT NO.
CATEGORY CODE

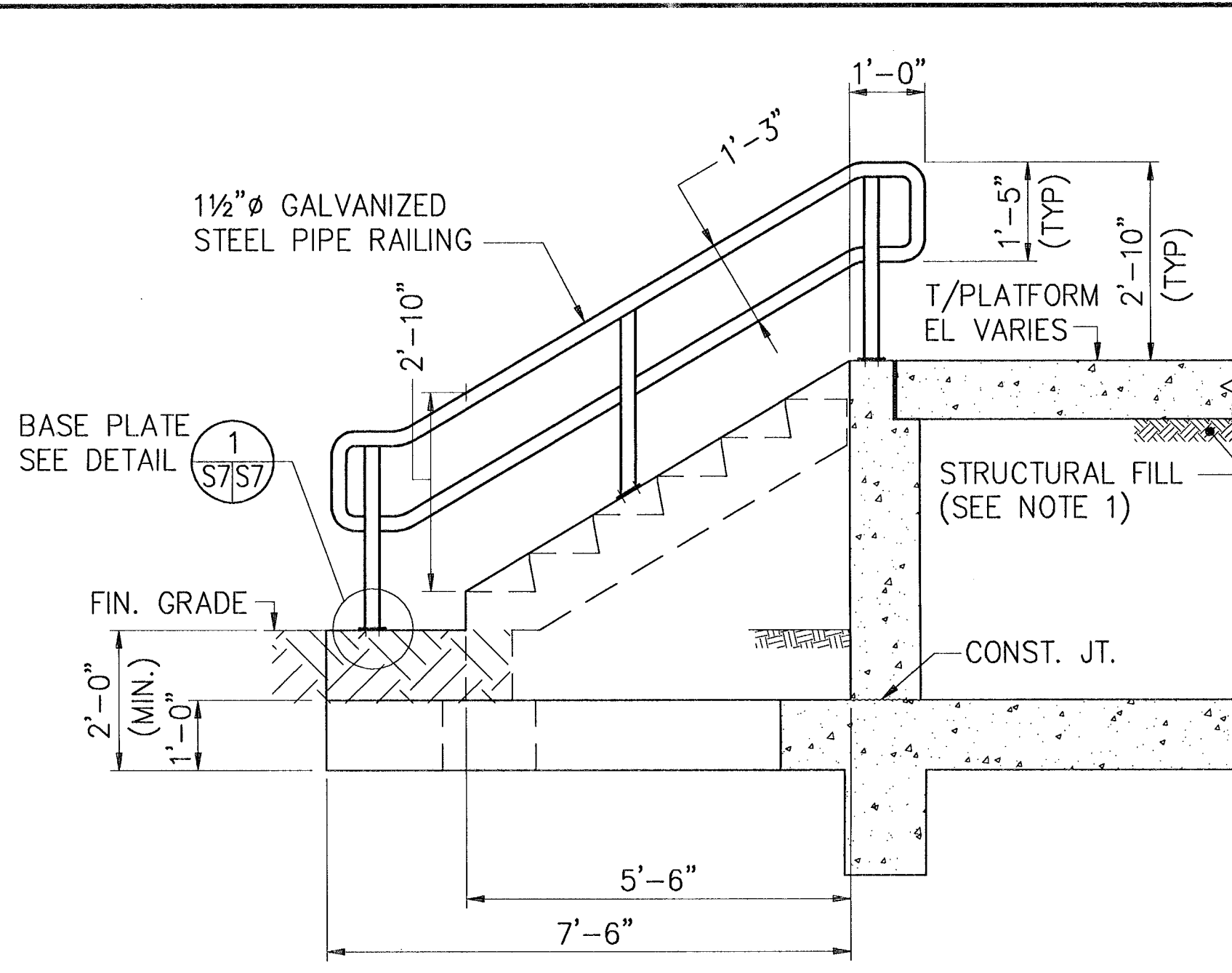
SHEET 6 OF 34



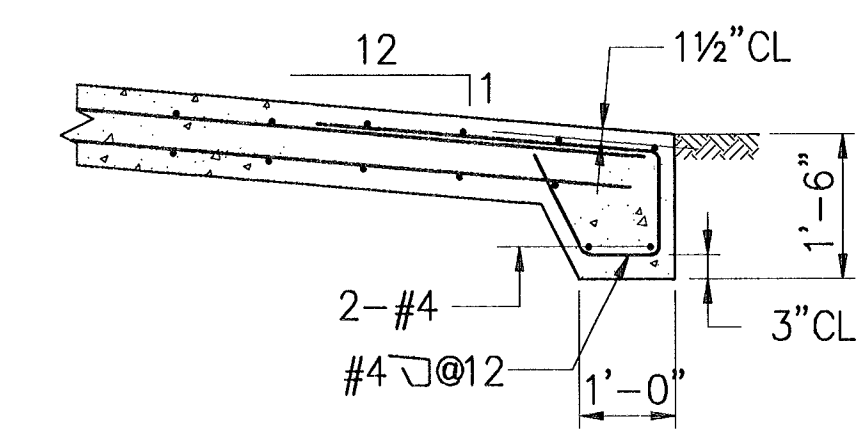
PARTIAL PLAN-STAIR
SCALE: 3/8"=1'-0"



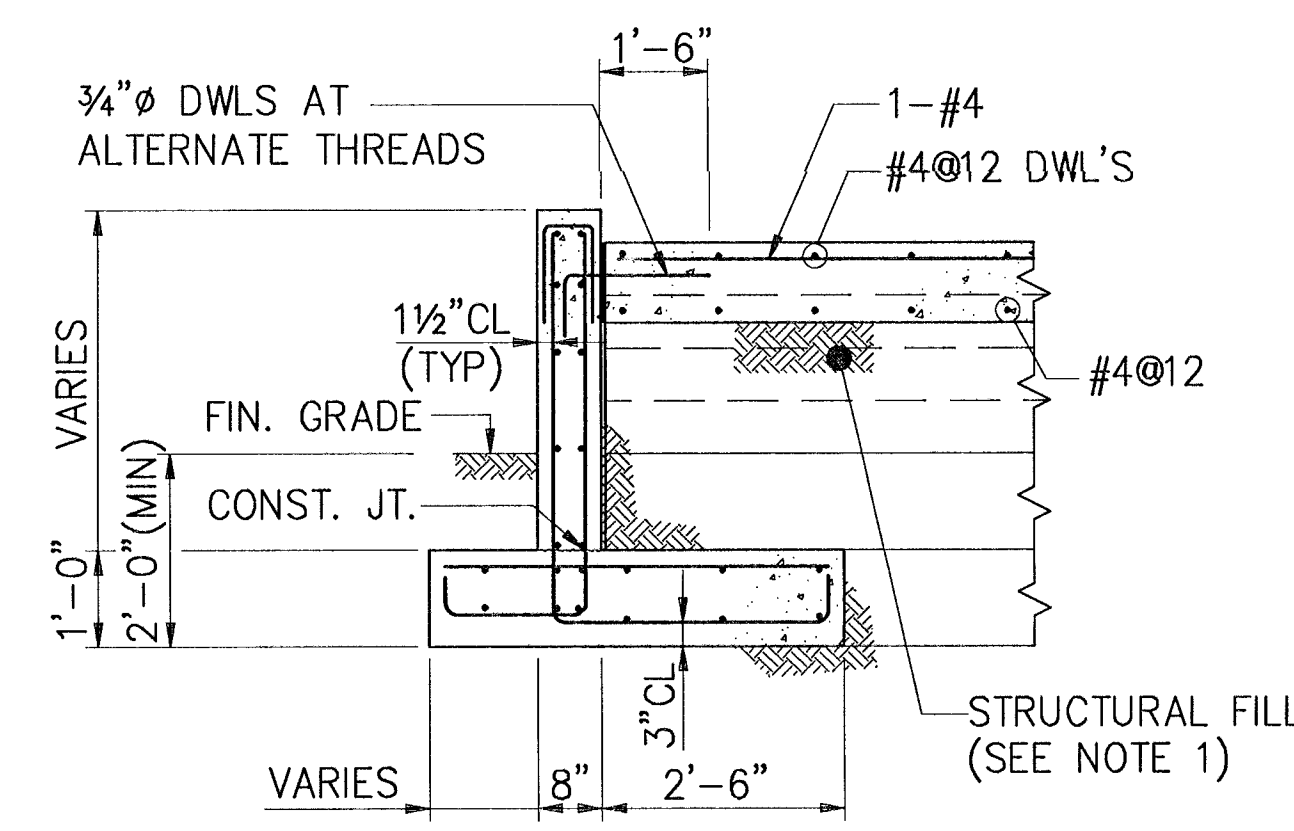
SECTION 1
SCALE: 1/2"=1'-0"



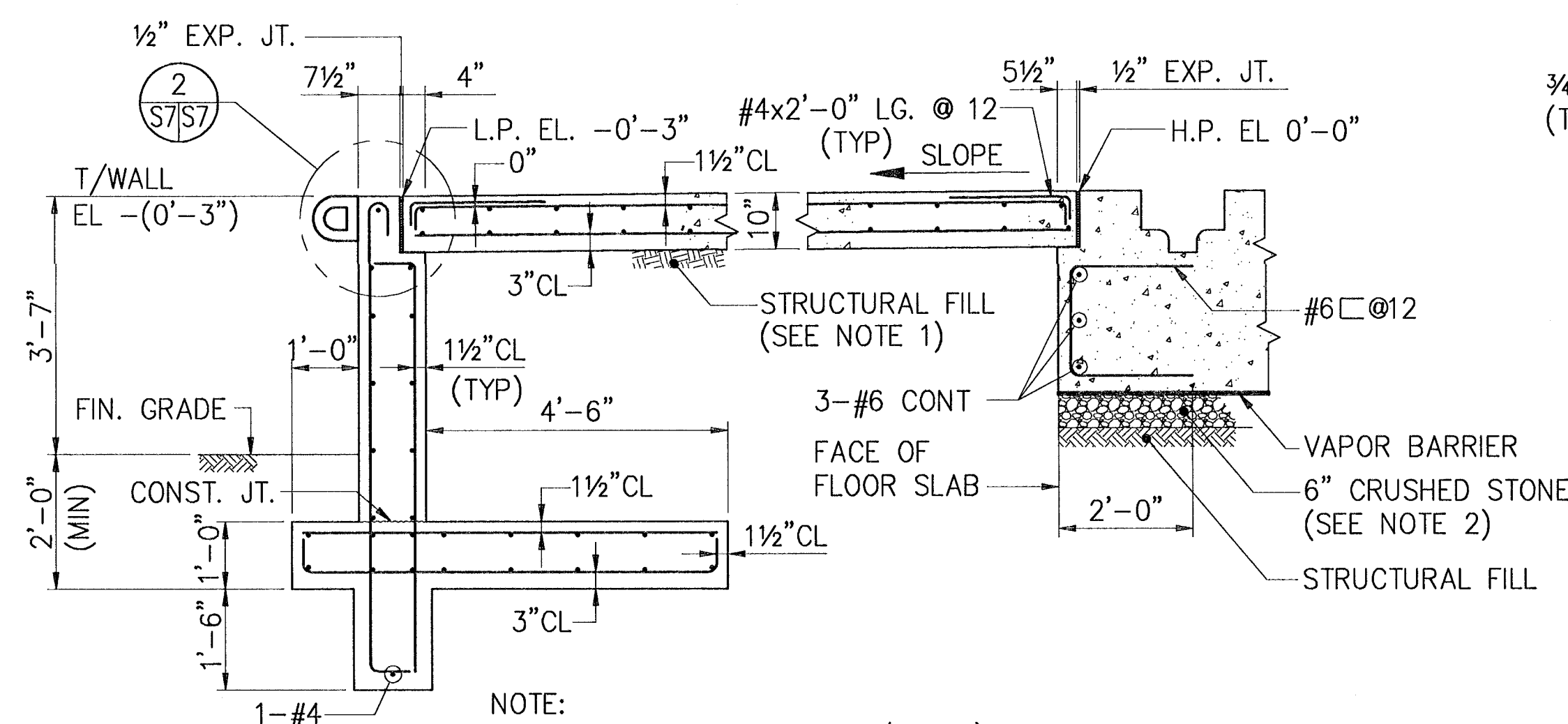
SECTION 2
SCALE: 1/2"=1'-0"



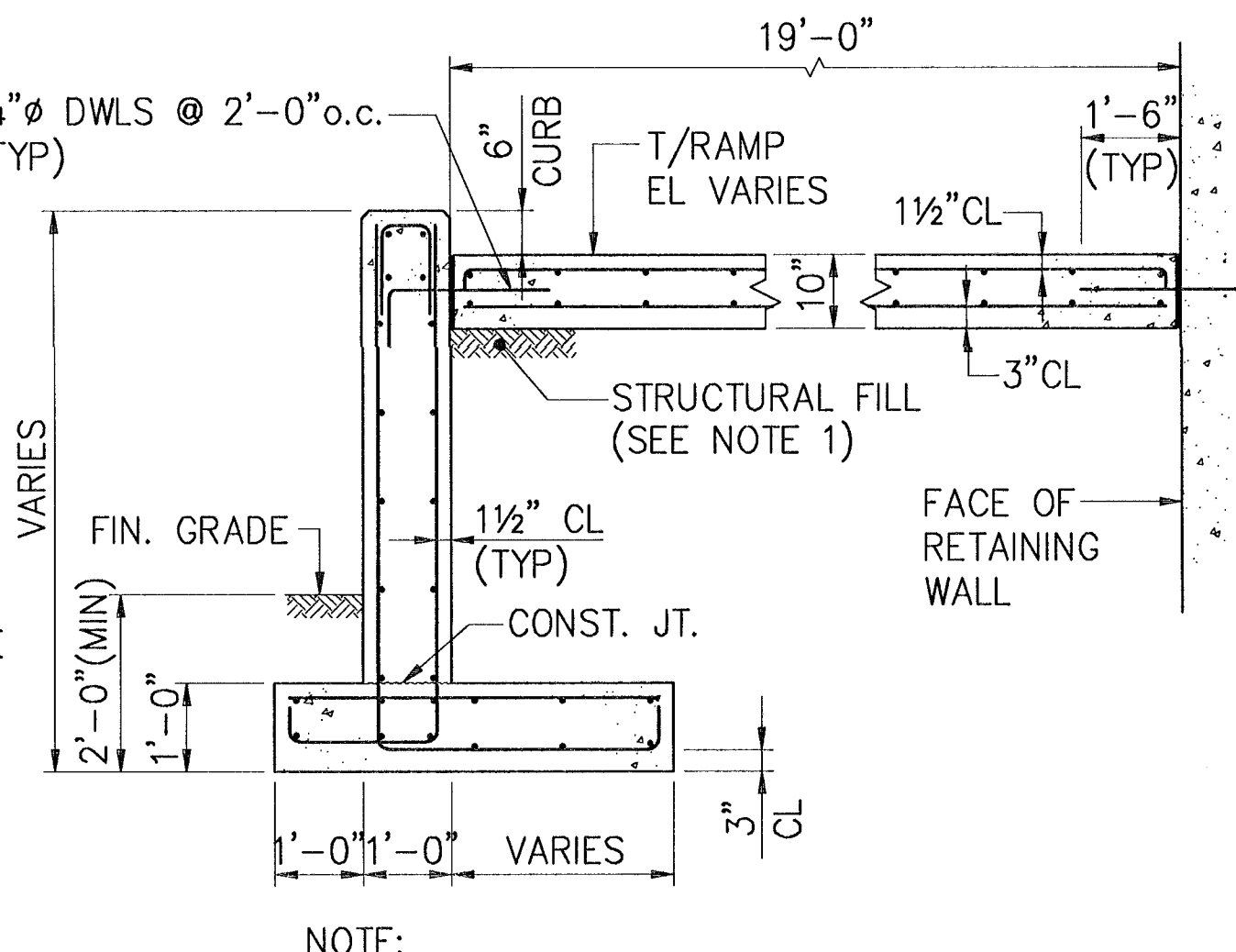
SECTION 5
SCALE: 1/2"=1'-0"



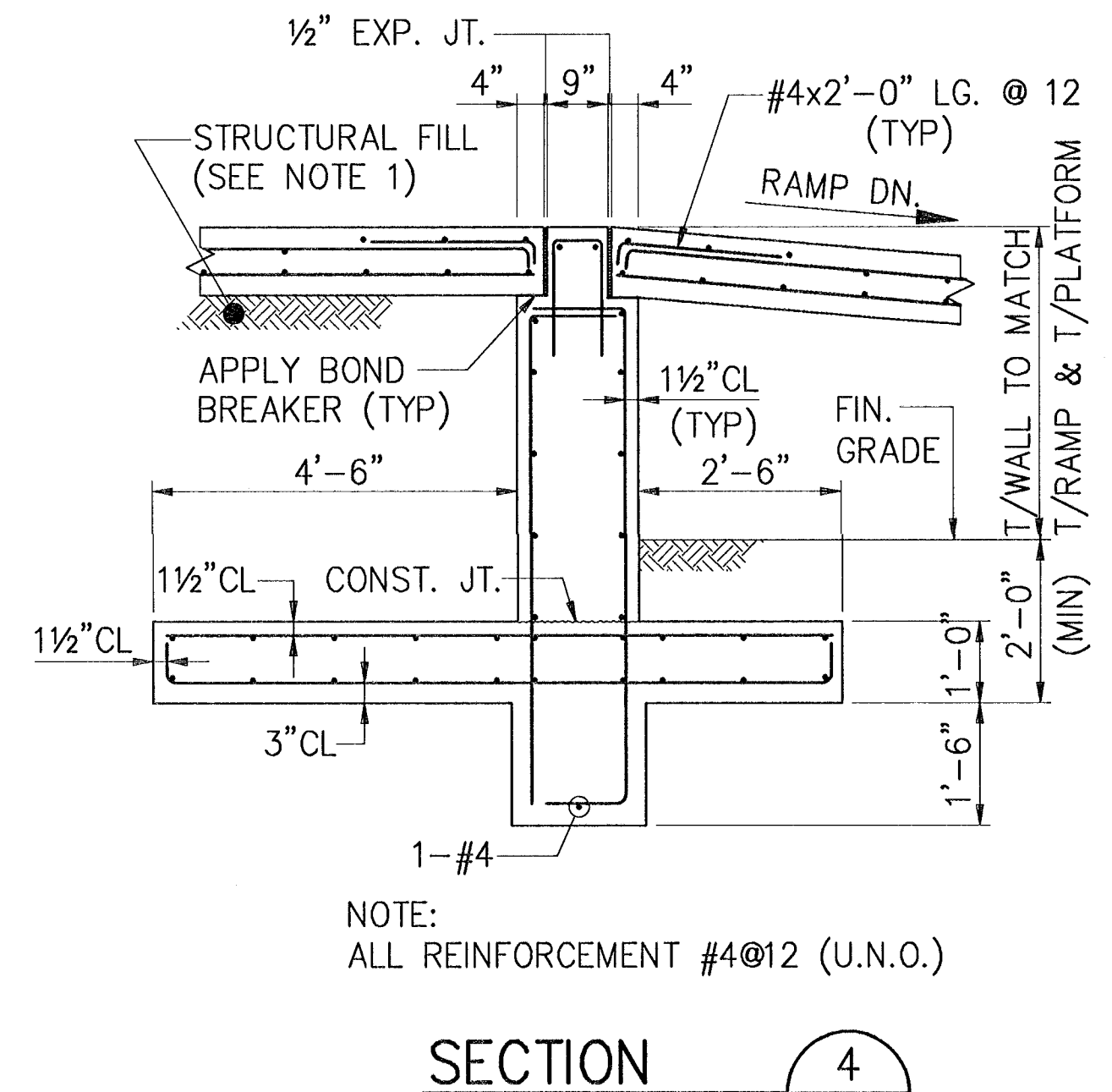
SECTION 3
SCALE: 1/2"=1'-0"



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

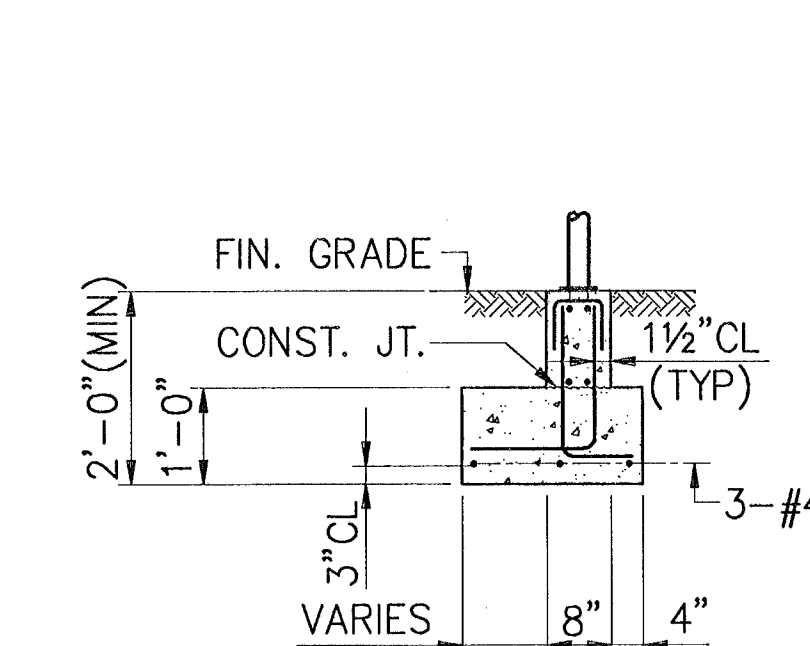


SECTION 3
SCALE: 1/2"=1'-0"

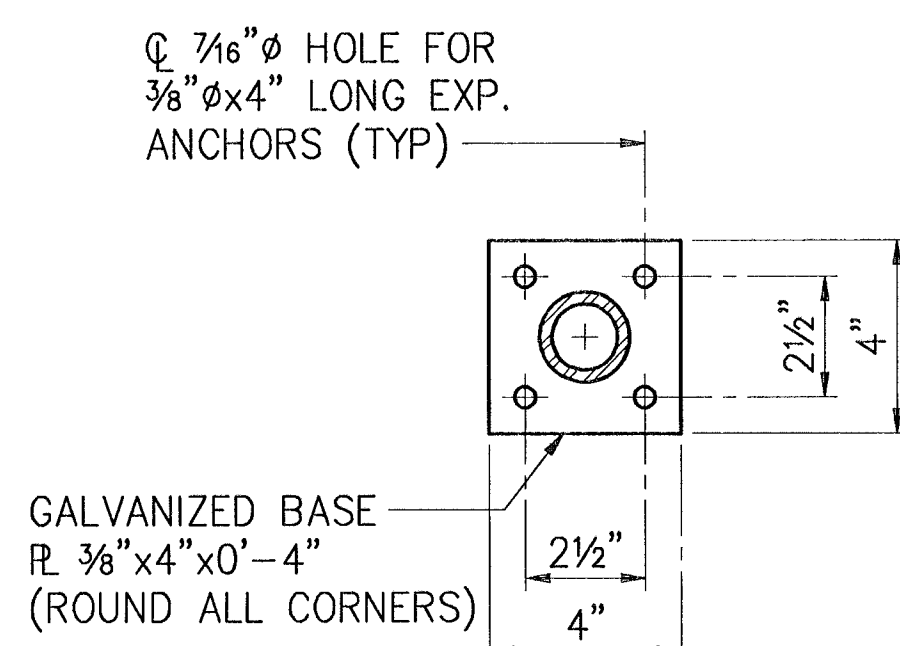


SECTION 4
SCALE: 1/2"=1'-0"

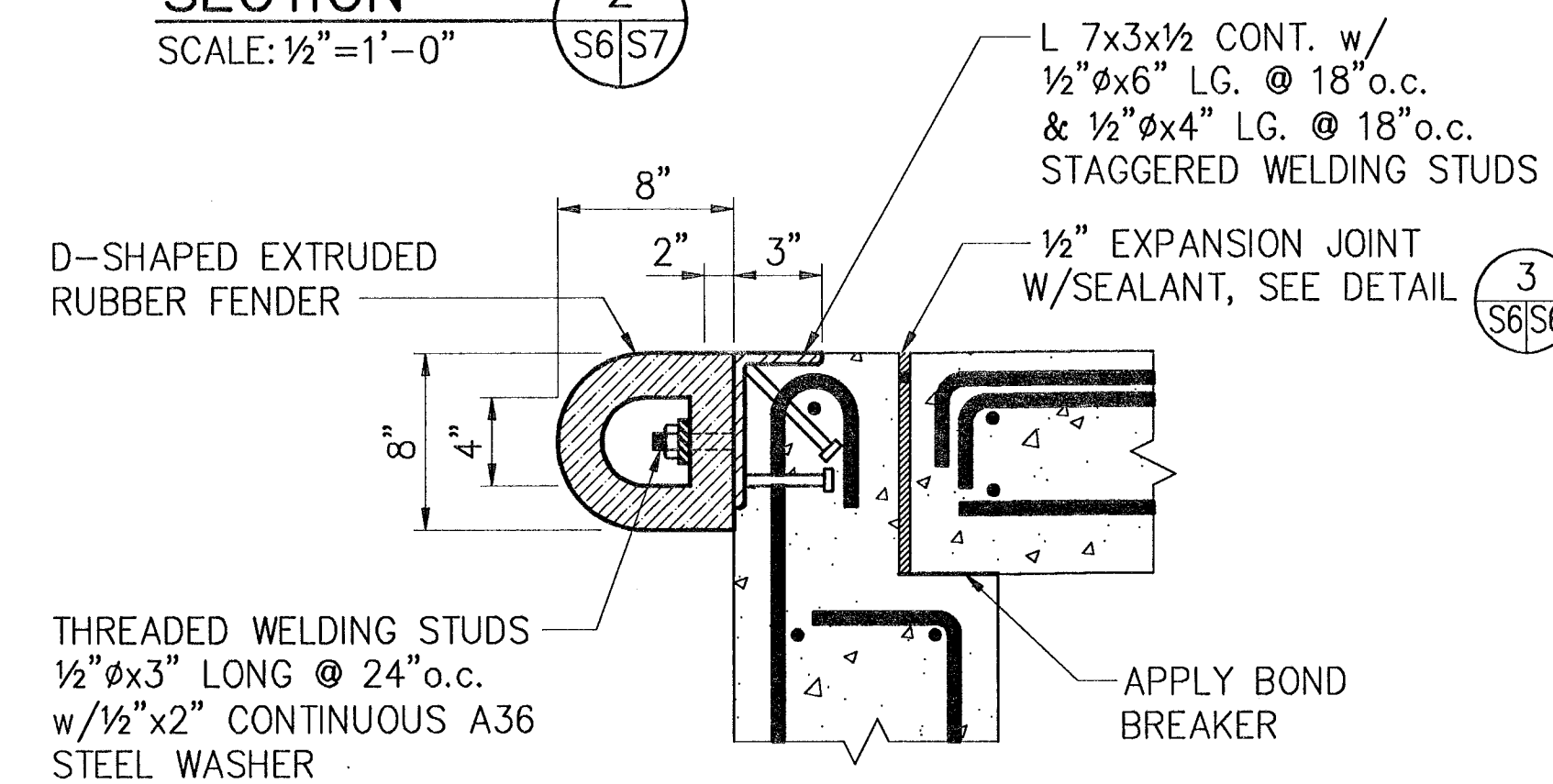
- NOTES:**
1. PROVIDE 6" CRUSHED STONE UNDER SLAB IF LESS THAN 2'-0" (MIN.) OF STRUCTURAL FILL IS PROVIDED.
 2. DELETE CRUSHED STONE WHEN A MINIMUM OF 2'-0" OF STRUCTURAL FILL IS PROVIDED.



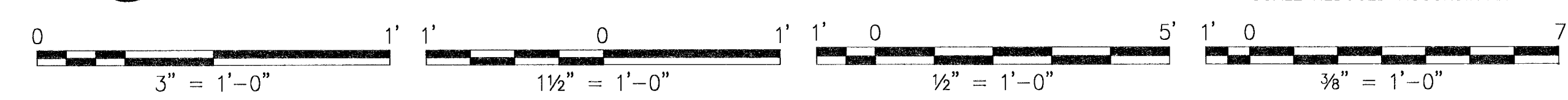
SECTION 4
SCALE: 1/2"=1'-0"



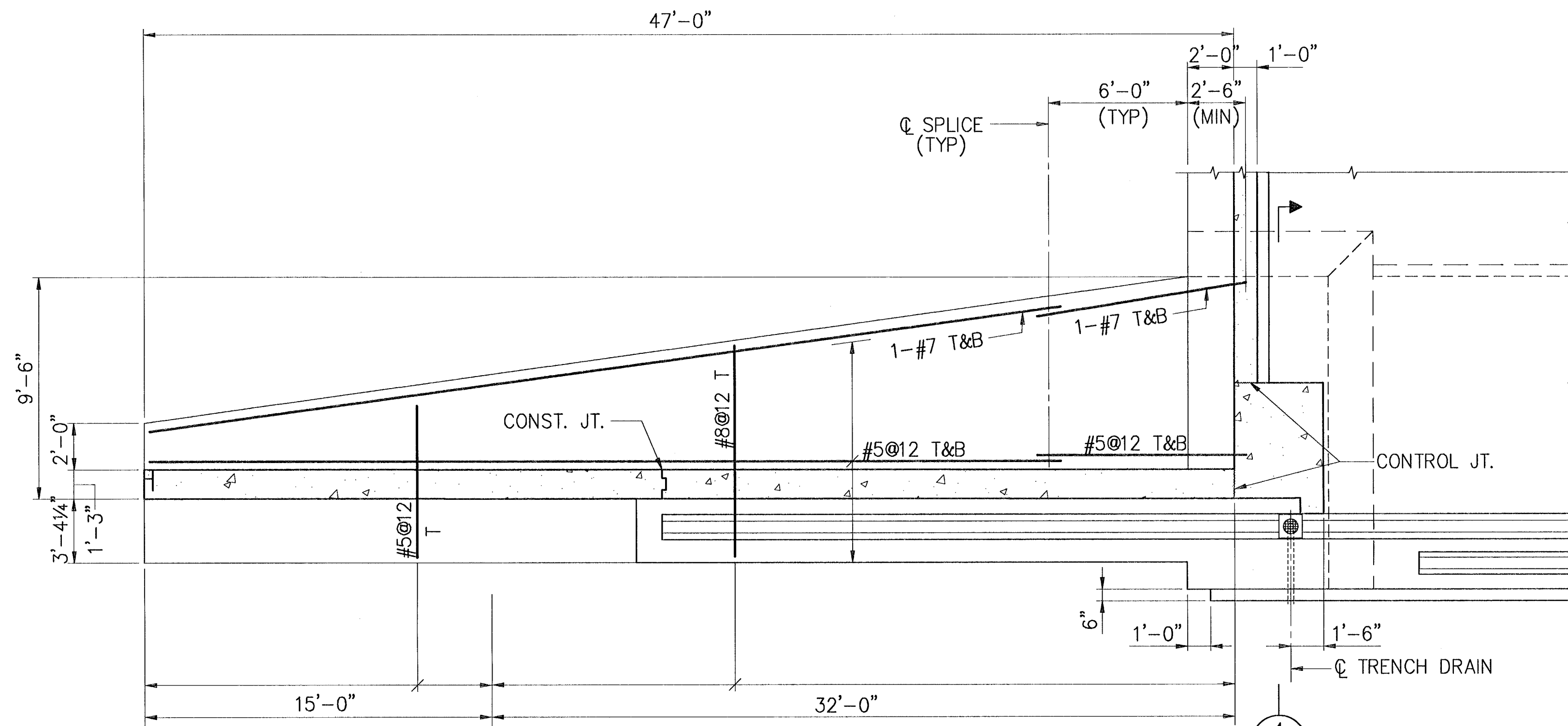
DETAIL 1
SCALE: 3"=1'-0"



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

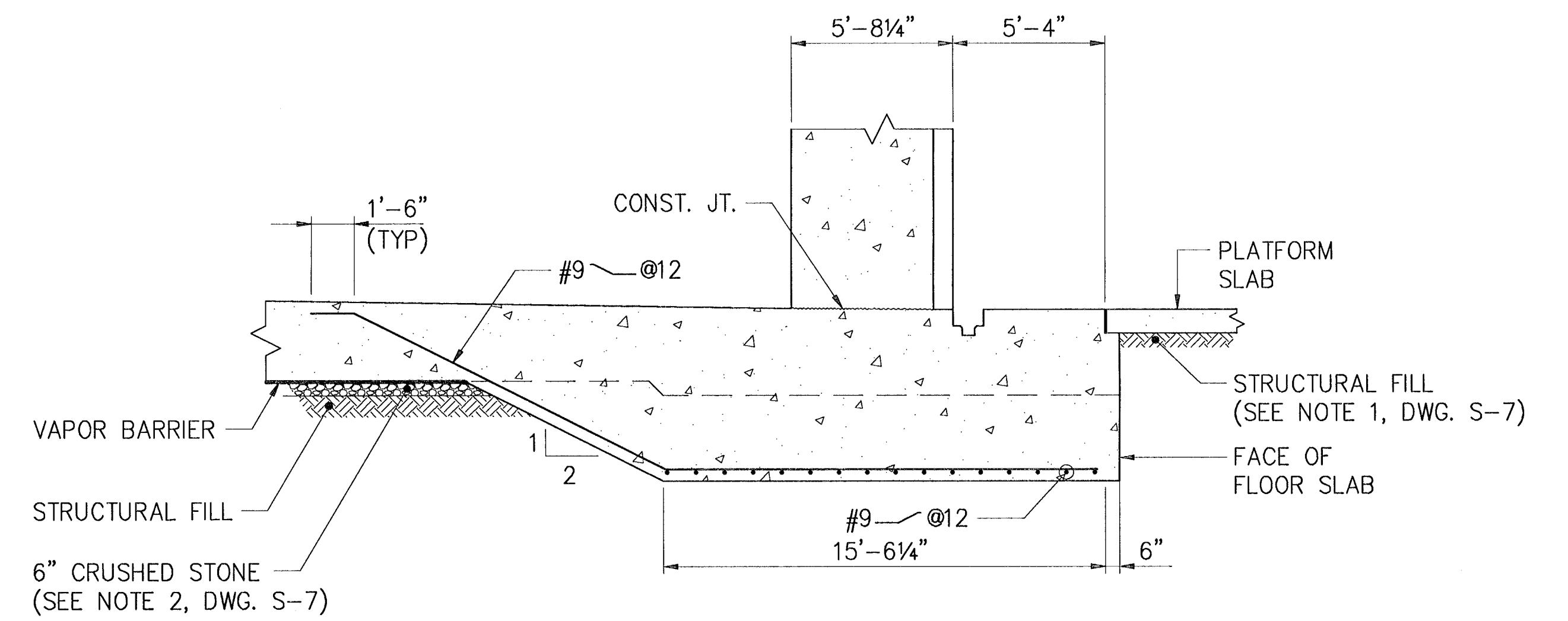


SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 GORTON ST., NEW YORK, NY 10014 DATE: 27/5/97				
NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' PLATFORM -- SECTIONS & DETAILS				
SIZE	CODE IDENT NO	NAVIC DRAWING NUMBER	S-7	
D	80091	6,448,561		
SCALE	AS NOTED	CONTRACT NO	SHEET 7 OF 34	
CATEGORY CODE		SPEC NO		



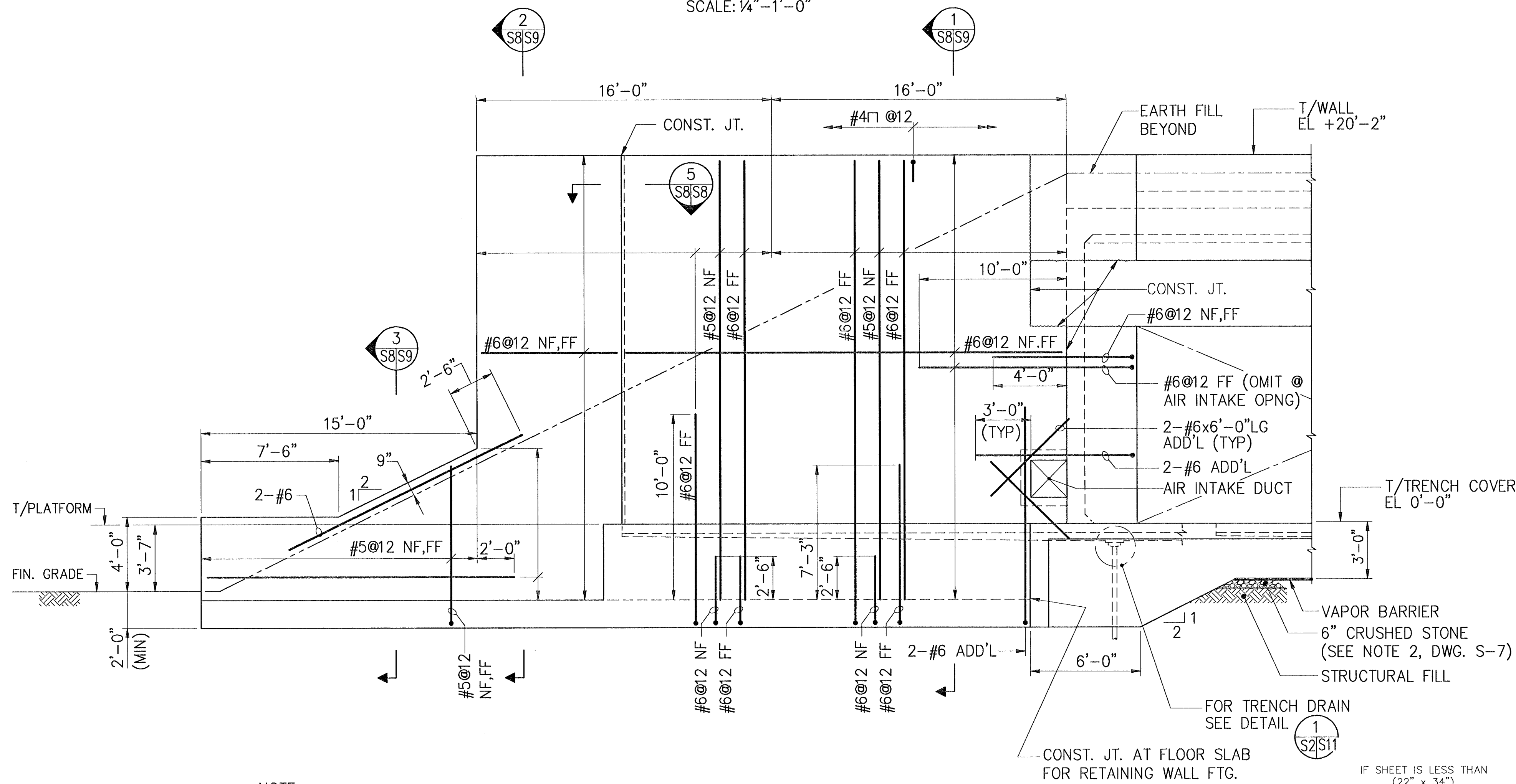
NOTE:
PLATFORM OMITTED FOR CLARITY.

FOUNDATION PLAN
(RETAINING WALL "A" AS SHOWN)
(RETAINING WALL "B" OPP. HAND)
SCALE: 1/4" = 1'-0"



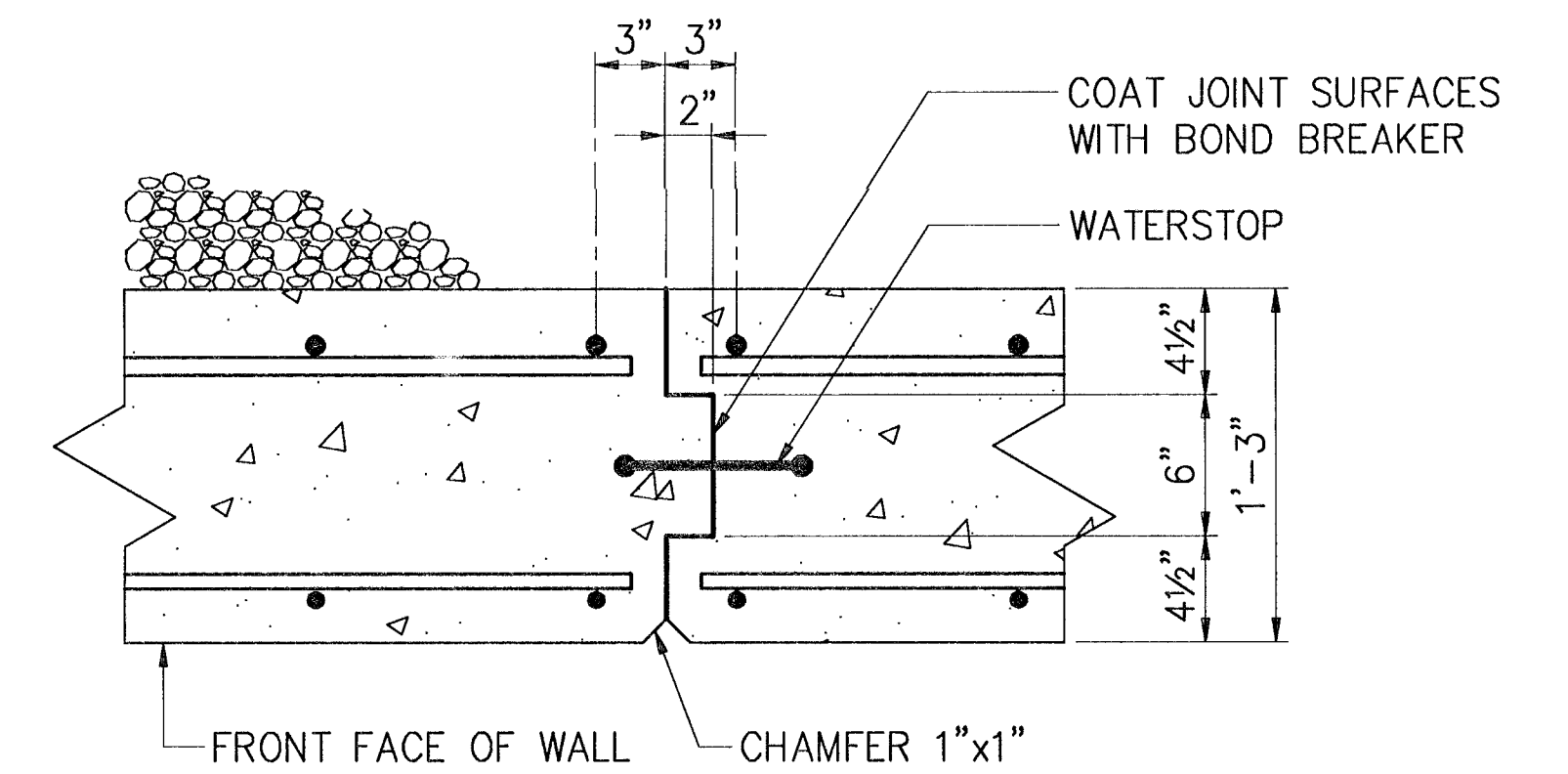
NOTE:
FOR REINFORCEMENT NOT SHOWN
SEE DWG'S S-7 & S-11.

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

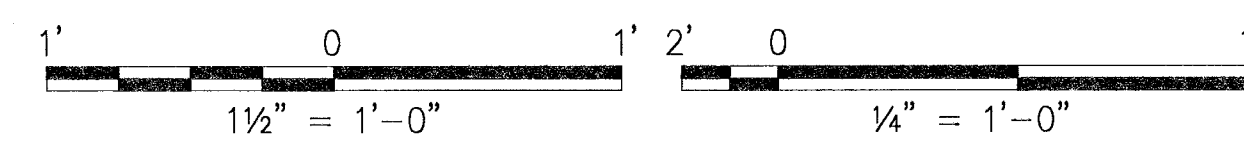


NOTE:
PLATFORM OMITTED FOR CLARITY.

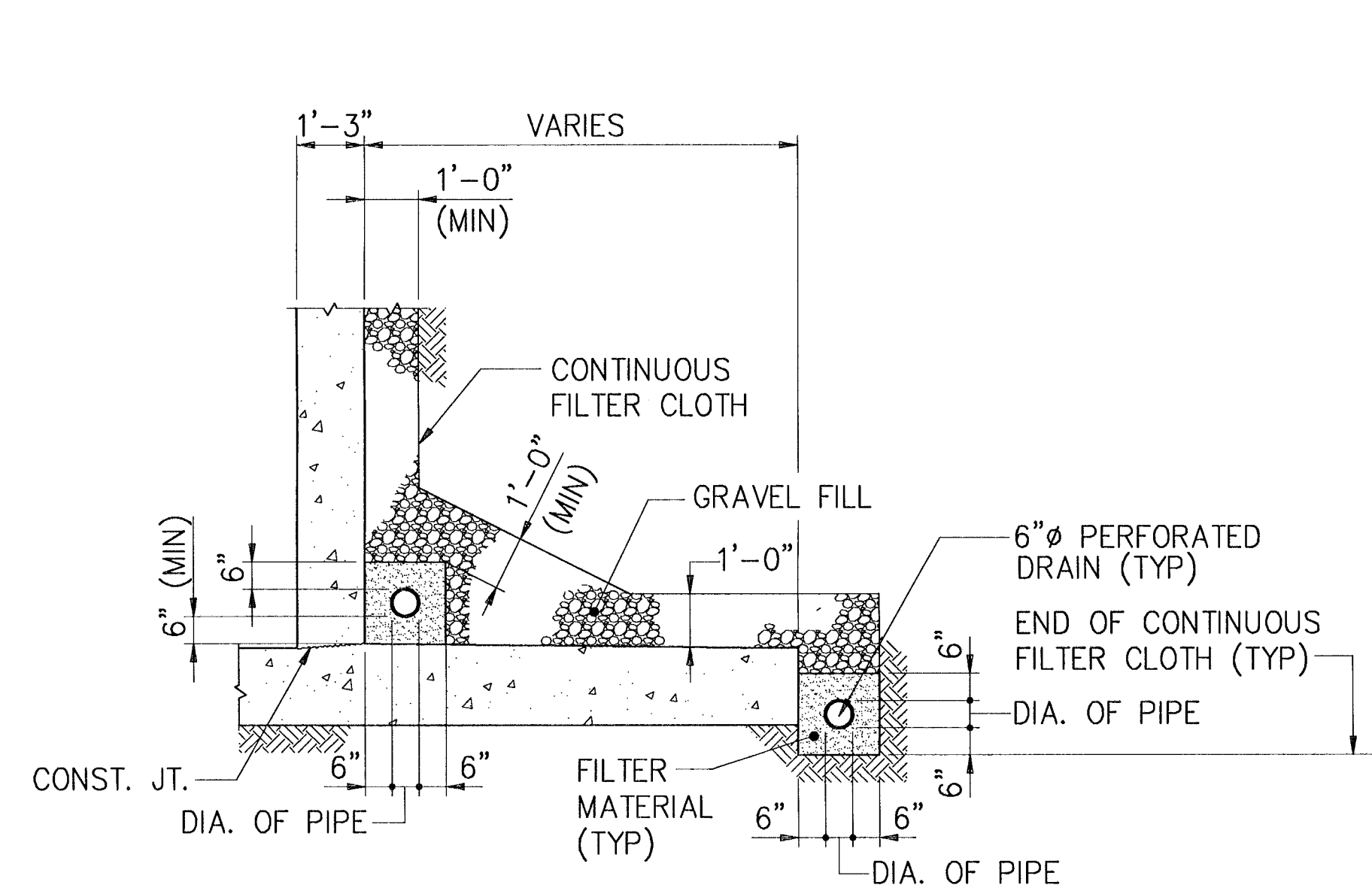
ELEVATION - RETAINING WALL "A"
(RETAINING WALL "B" OPP. HAND)
SCALE: 1/4" = 1'-0"



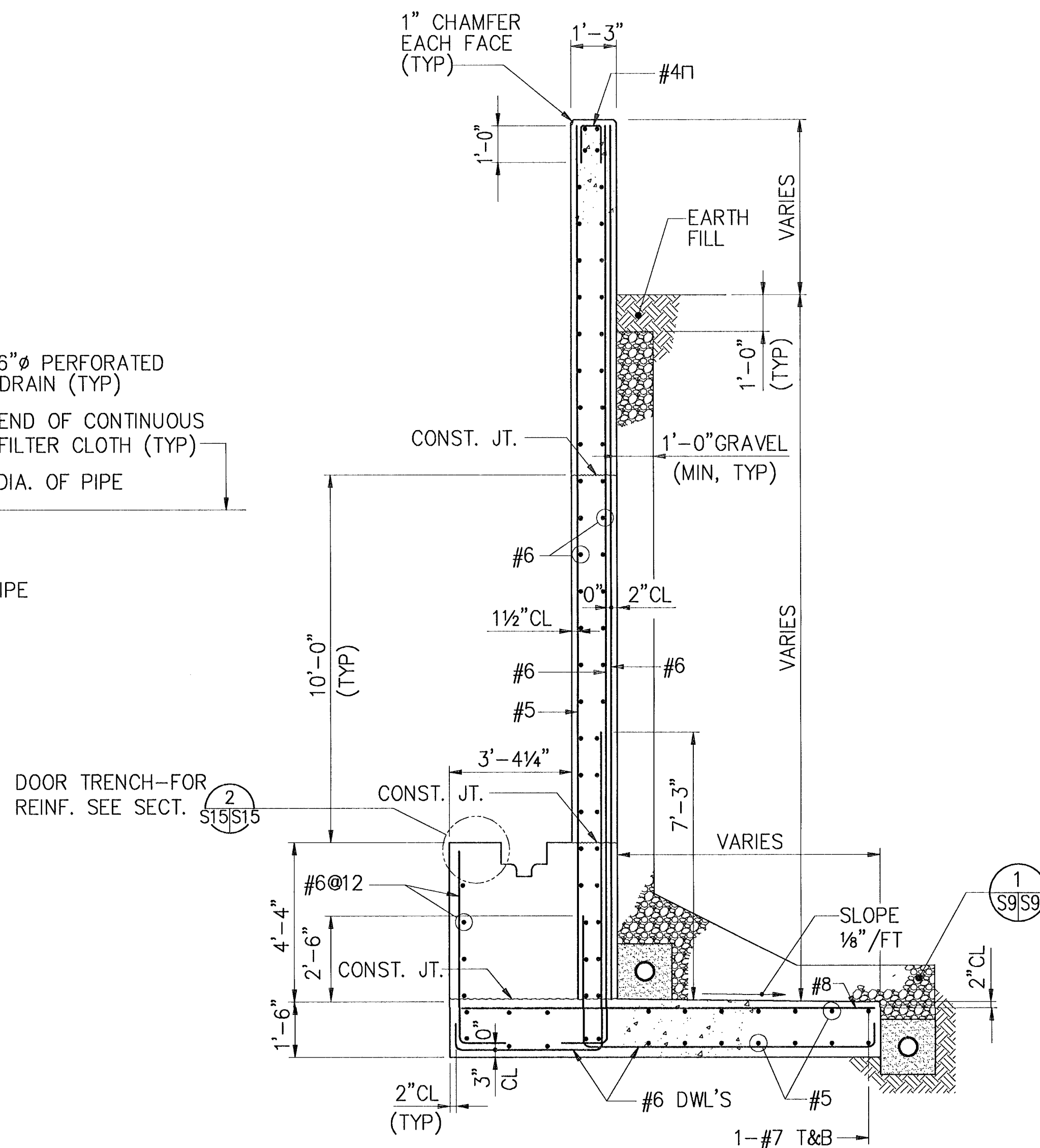
SECTION 5
SCALE: 1/2" = 1'-0"



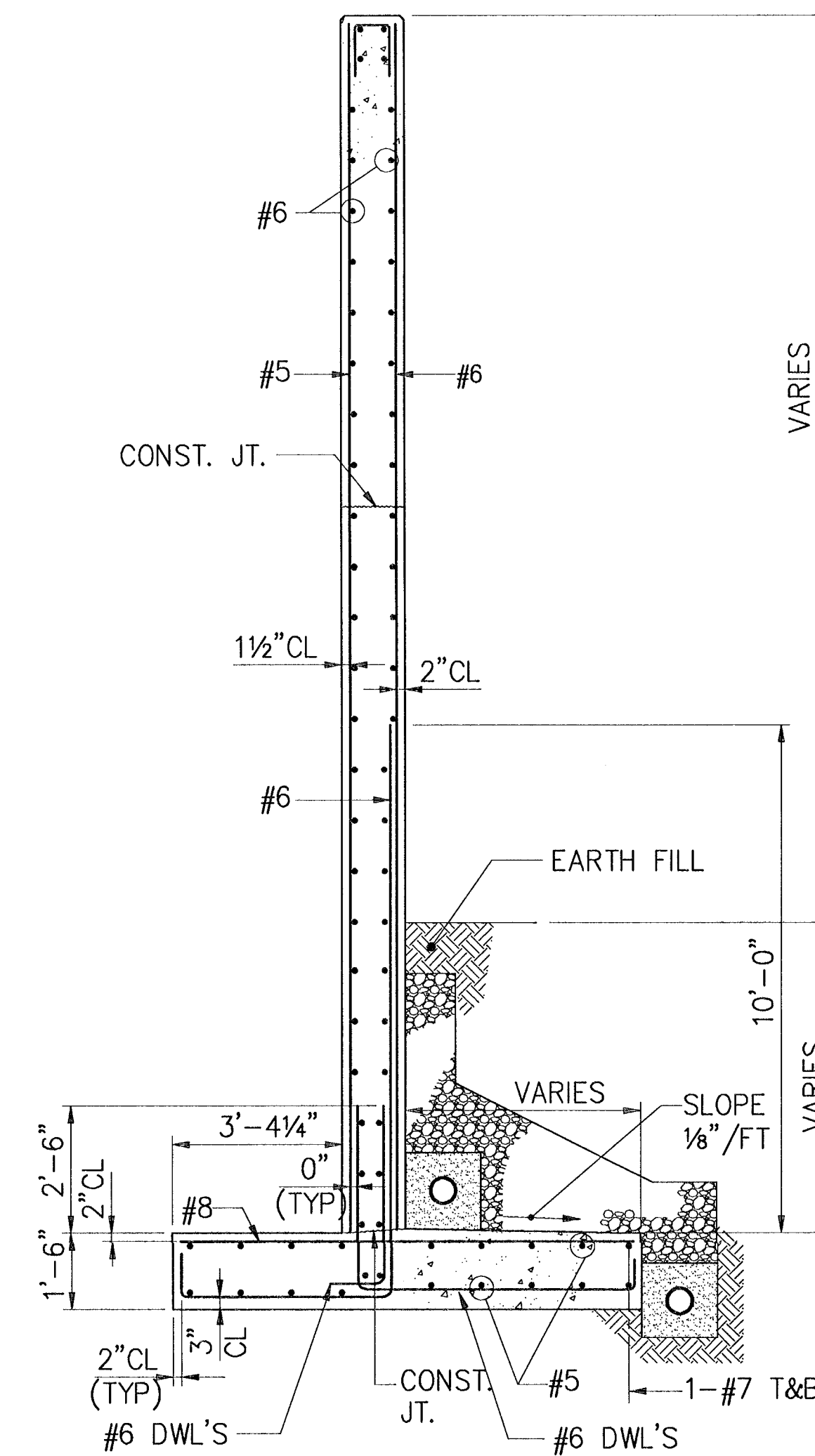
SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 WILSON ST., NEW YORK, NY 10014		DEPARTMENT OF THE NAVY		WASHINGTON, D.C. 20350		
Principal Engineer: <i>R. Brady</i> Engineer in Charge: <i>R. Brady</i> Criteria Manager: <i>R. Brady</i>		NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' RETAINING WALL ELEVATION & SECTIONS (W/PLATFORM)		27/5/97 DATE		
SIZE: D	CODE IDENT NO: 80091	NAVFAC DRAWING NUMBER: 6,448,562	S-8			
SCALE: AS NOTED	CONTRACT NO:	CATEGORY CODE:	SHEET 8	OF 34		



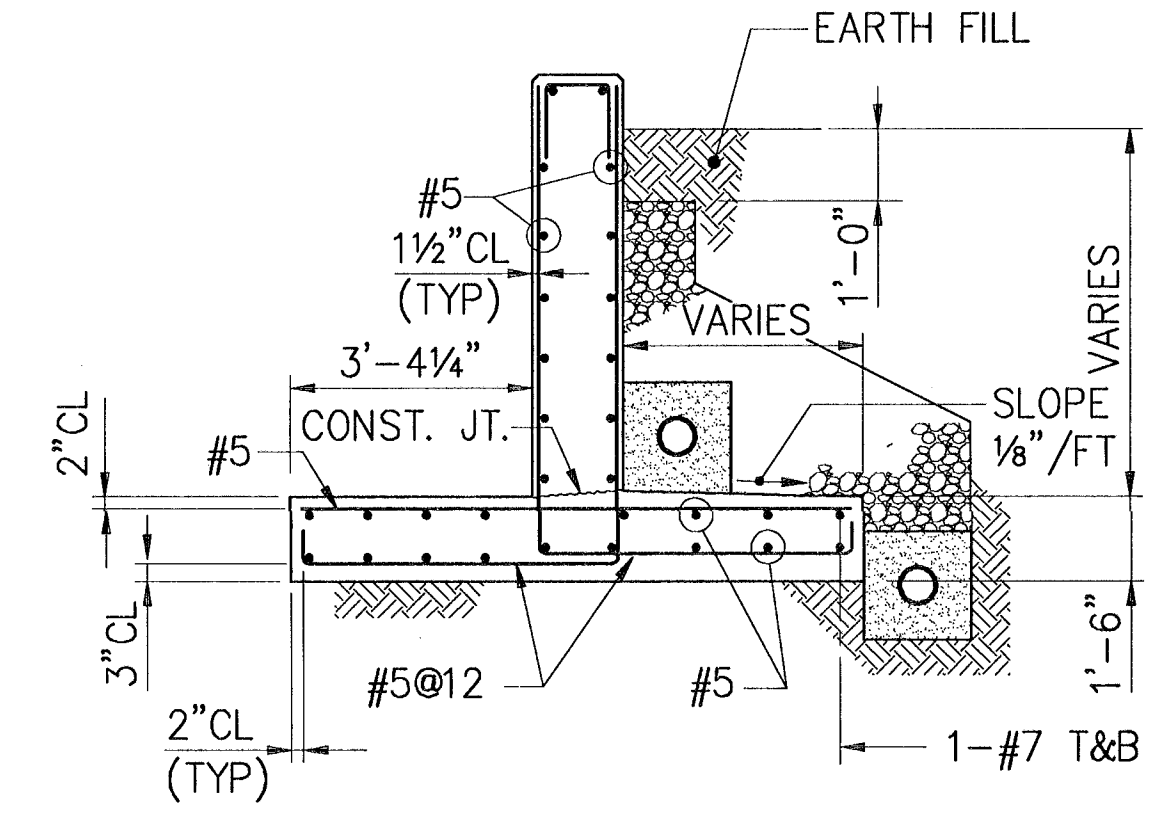
DETAIL 1
SCALE: 3/8" = 1'-0"
(TYPICAL 6"Ø PERFORATED DRAIN)



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



NOTE: FOR INFORMATION NOT SHOWN SEE SECTION 1
SECTION 2
SCALE: 3/8" = 1'-0"



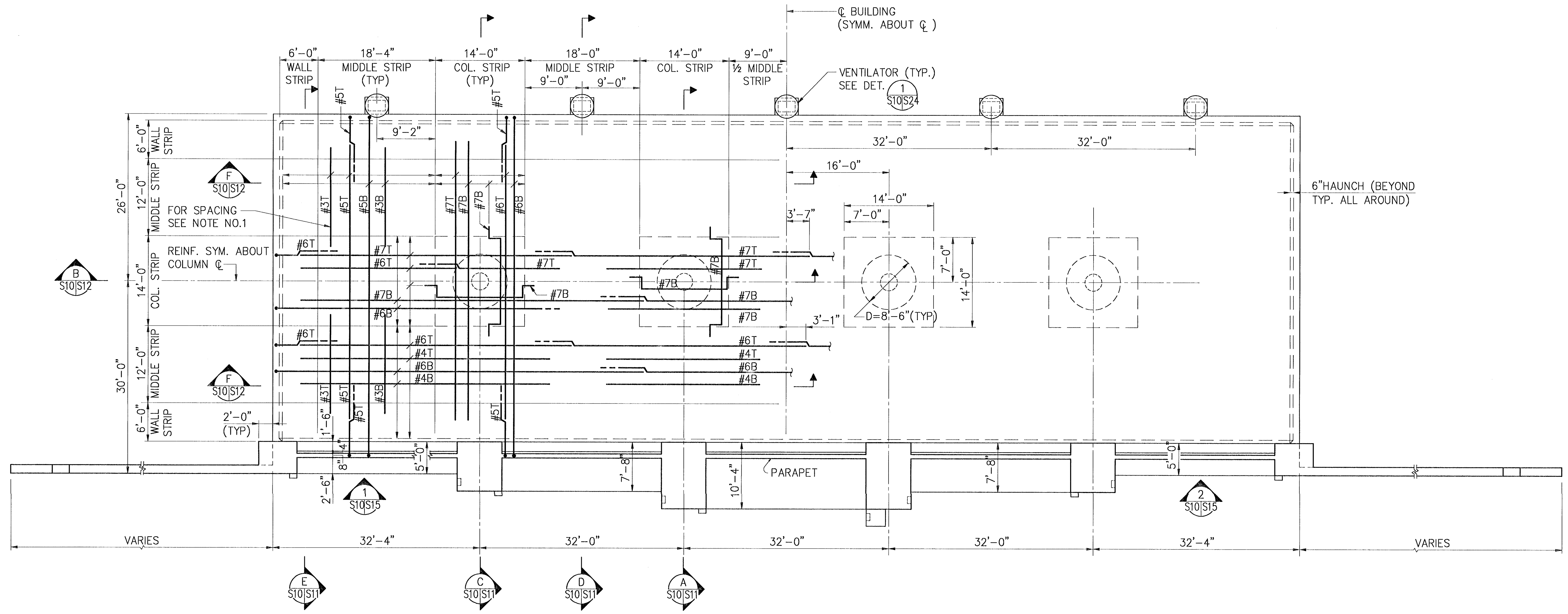
NOTE: FOR INFORMATION NOT SHOWN SEE SECTION 1
SECTION 3
SCALE: 3/8" = 1'-0"

NOTE: FOR ALTERNATE EARTH FILL DRAINAGE SYSTEM SEE DWG. S-13.

IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

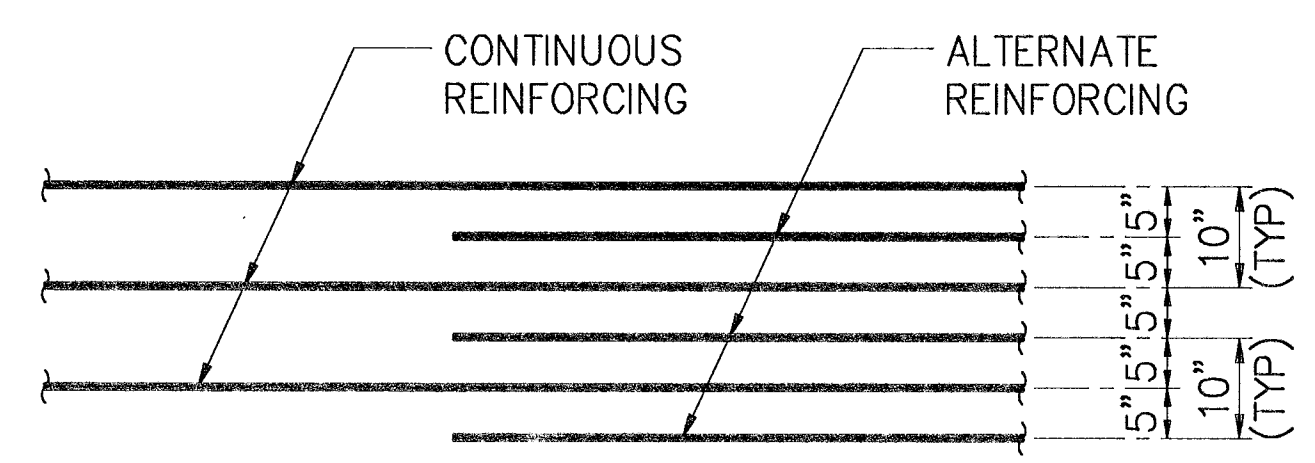
1" 0 7"
3/8" = 1'-0"

SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MADISON ST., NEW YORK, NY 10014				
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350				
NAVAL FACILITIES ENGINEERING COMMAND				
STANDARD DRAWING				
HSILS BOX MAGAZINE TYPE 'D'				
RETAINING WALL SECTIONS (W/PLATFORM)				
DATE	CODE IDENT NO	NAVFAC DRAWING NUMBER	S-9	
27/5/97	80091	6,448,563		
SCALE	AS NOTED	CONTRACT NO	SHEET 9 OF 34	
DATE		SPEC NO		
FOR COMMANDER NAFAFENGOOM				



ROOF PLAN

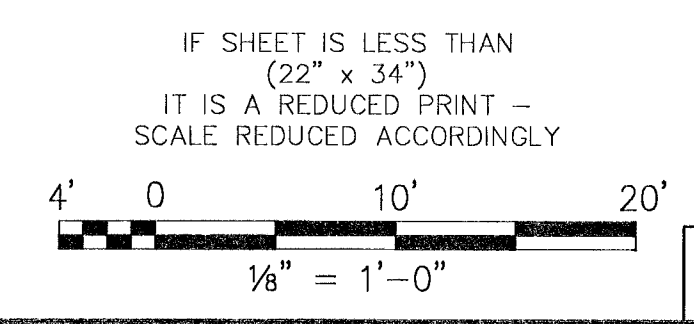
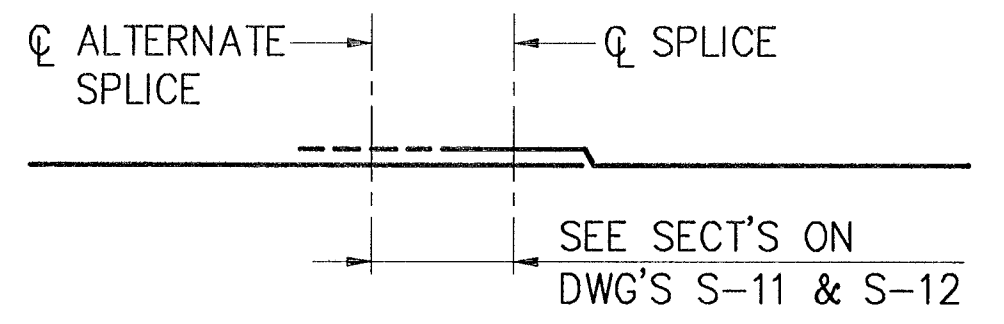
SCALE: 1/8" = 1'-0"



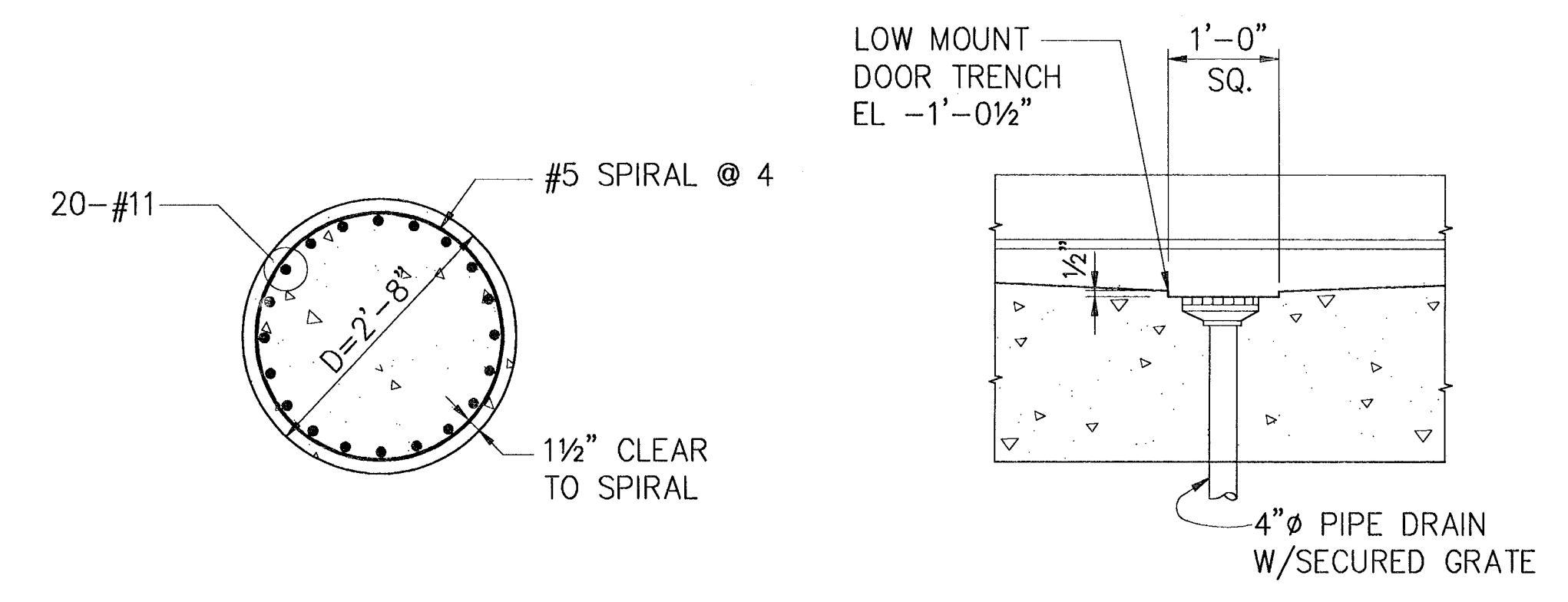
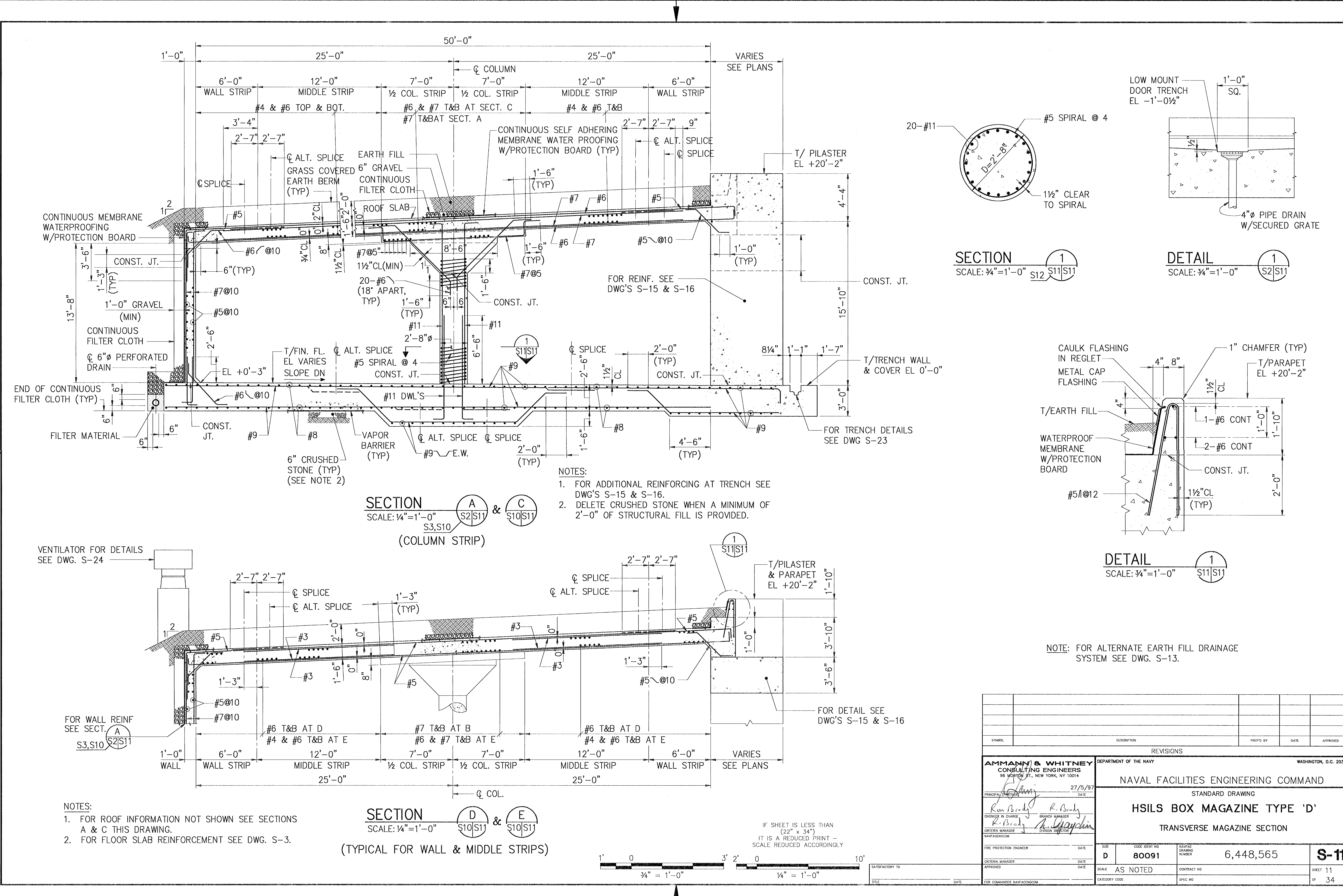
TYPICAL SPACING OF ROOF REINFORCEMENT
N.T.S.

NOTES:

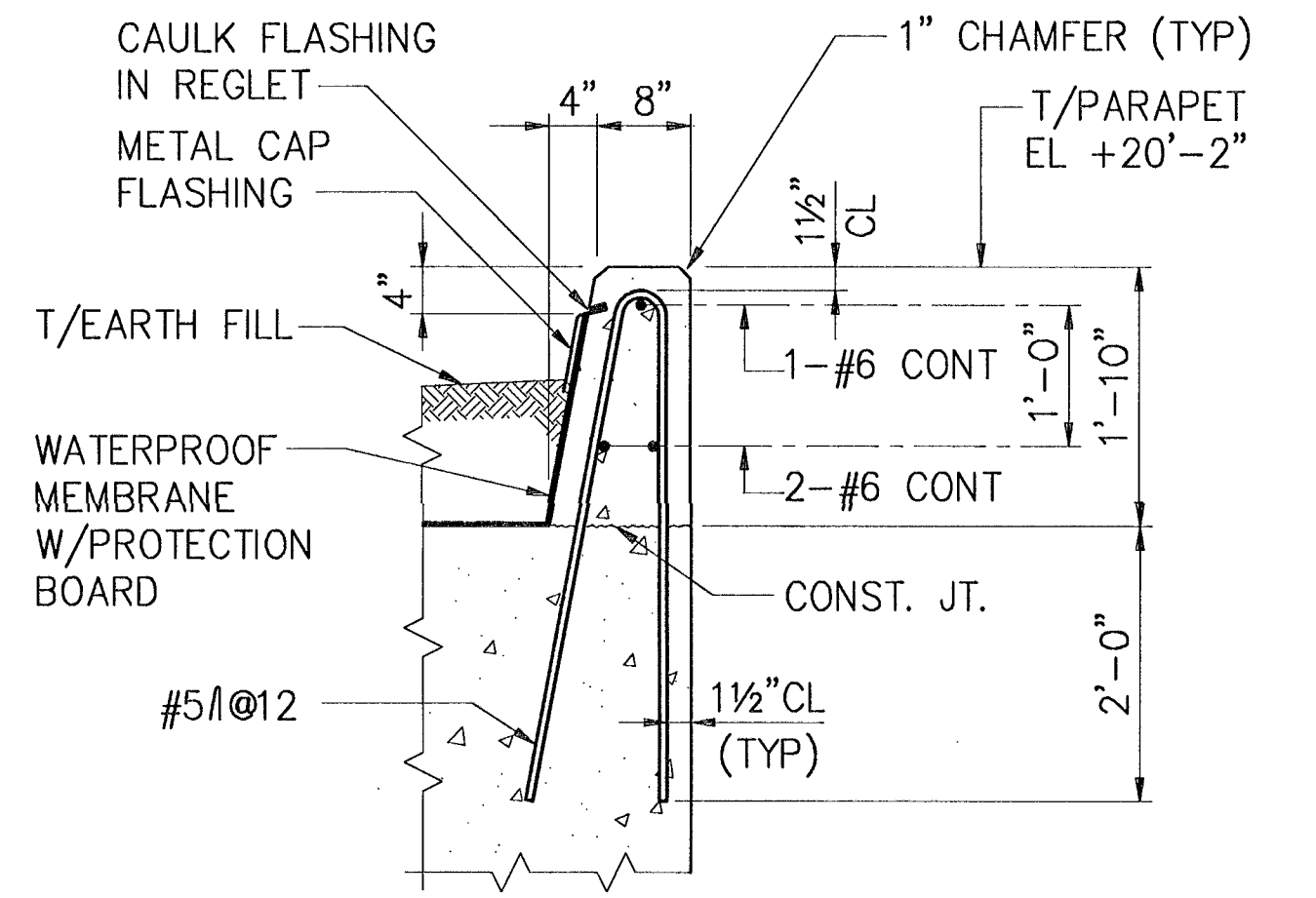
1. ALL REINFORCING BARS SHALL BE SPACED AT 10" o.c. UNLESS NOTED OTHERWISE. SEE "TYPICAL SPACING OF ROOF REINFORCEMENT" THIS DRAWING.
2. STAGGERED SPLICES SHOWN THUS



SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MARSH ST., NEW YORK, NY 10014		DEPARTMENT OF THE NAVY		WASHINGTON, D.C. 20350		
PRINCIPAL ENGINEER <i>R. Brody</i>		ENGINEER IN CHARGE <i>R. Brody</i>		DATE 27/5/97		
CRITERIA MANAGER <i>R. Brody</i>		DIVISION MANAGER <i>A. [Signature]</i>		NAVFACENCOM		
NAVFAC PROTECTION ENGINEER		DATE		DATE		
CRITERIA MANAGER		DATE		DATE		
APPROVED		DATE		DATE		
FOR COMMANDER NAVFACENCOM		DATE		DATE		
TITLE		DATE		DATE		
SHEET NO.		DRAWING NUMBER		SHEET NO.		
D		80091		S-10		
SCALE 1/8" = 1'-0"		CONTRACT NO.		SHEET 10		
CATEGORY CODE		SPEC NO.		OF 34		
		6,448,564				



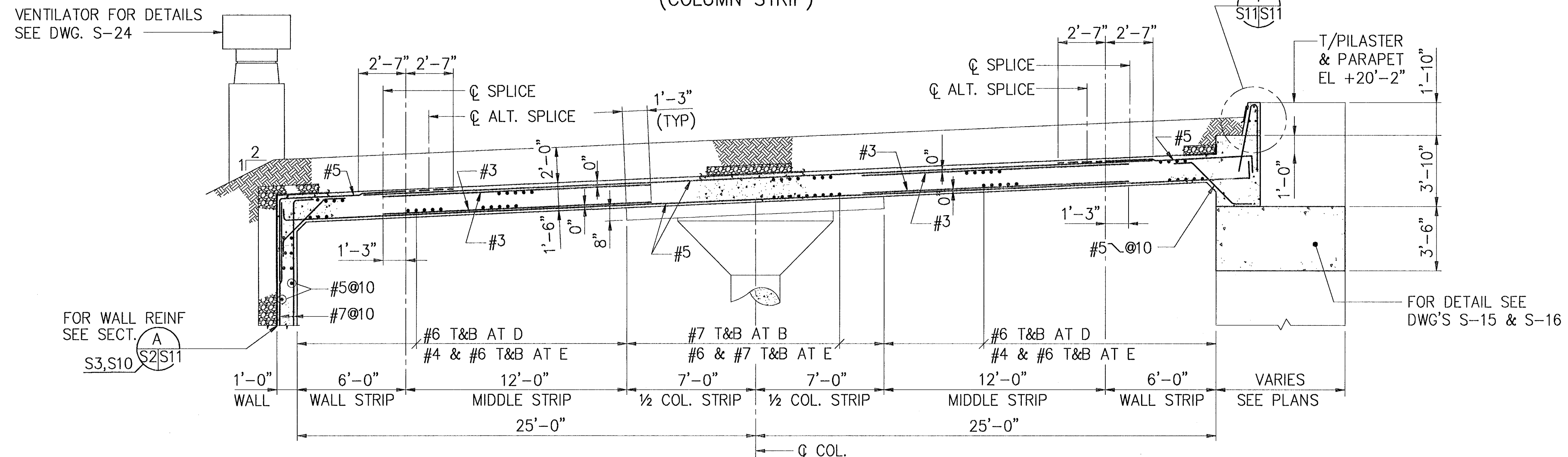
SECTION 1 SCALE: 3/4" = 1'-0" S12 S11 S11
 DETAIL 1 SCALE: 3/4" = 1'-0" S2 S11



DETAIL 1 SCALE: 3/4" = 1'-0" S11 S11

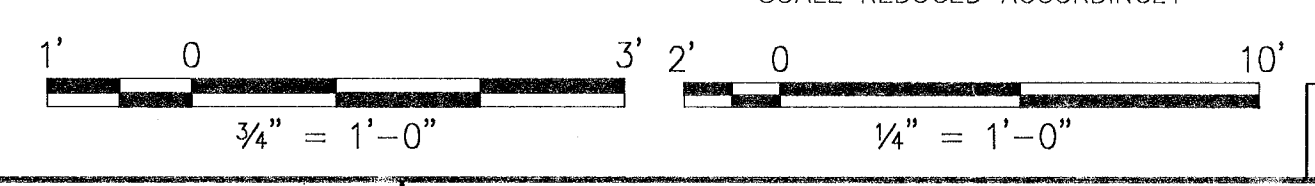
- NOTES:
1. FOR ADDITIONAL REINFORCING AT TRENCH SEE DWG'S S-15 & S-16.
 2. DELETE CRUSHED STONE WHEN A MINIMUM OF 2'-0" OF STRUCTURAL FILL IS PROVIDED.

SECTION A & C SCALE: 1/4" = 1'-0" S2 S10 S10
 (COLUMN STRIP)



- NOTES:
1. FOR ROOF INFORMATION NOT SHOWN SEE SECTIONS A & C THIS DRAWING.
 2. FOR FLOOR SLAB REINFORCEMENT SEE DWG. S-3.

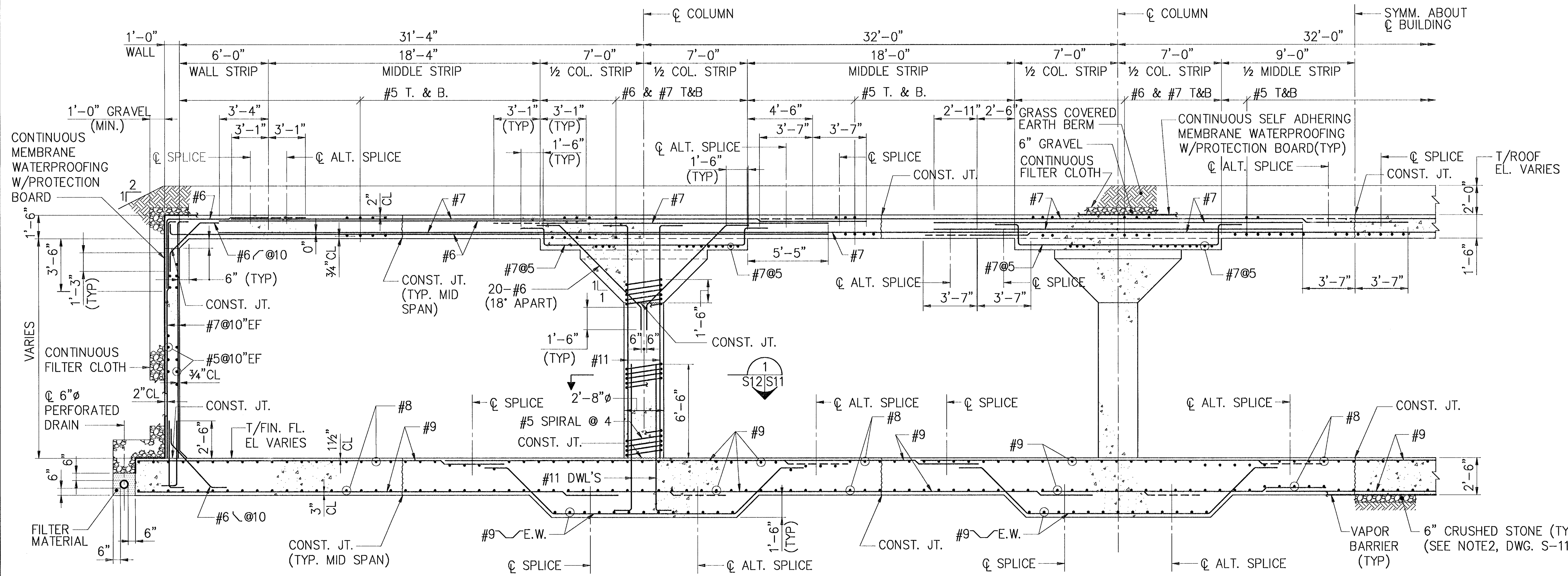
SECTION D & E SCALE: 1/4" = 1'-0" S10 S11 S10
 (TYPICAL FOR WALL & MIDDLE STRIPS)



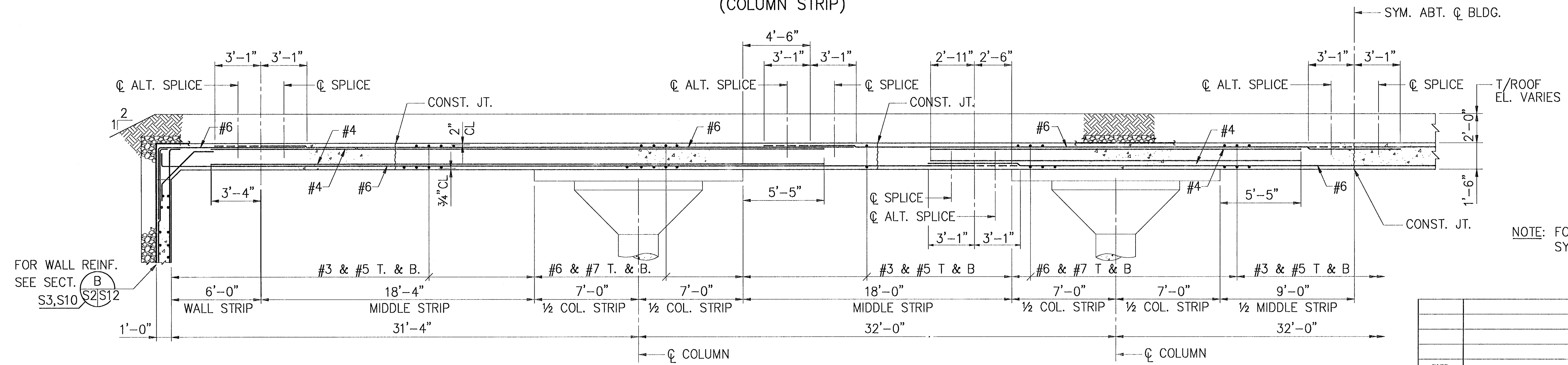
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

NOTE: FOR ALTERNATE EARTH FILL DRAINAGE SYSTEM SEE DWG. S-13.

SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014				
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' TRANSVERSE MAGAZINE SECTION				
DESIGNED BY	DATE	BRANCH MANAGER	DATE	NAVAC DRAWING NUMBER
CHECKED BY	DATE	CRITERIA MANAGER	DATE	6,448,565
APPROVED	DATE	NAVAC DRAWING NUMBER	DATE	S-11
FOR COMMANDER NAVFACENGINCOM				SHEET 11 OF 34



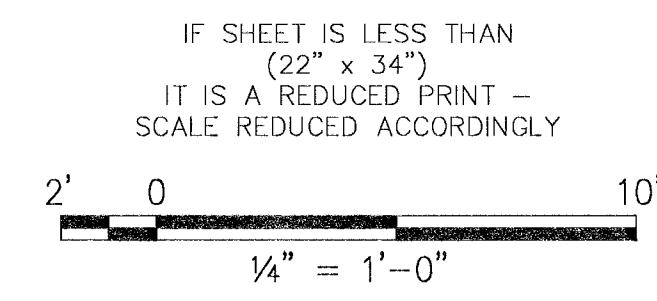
SECTION B
 SCALE: 1/4" = 1'-0"
 S3,S10
 (COLUMN STRIP)



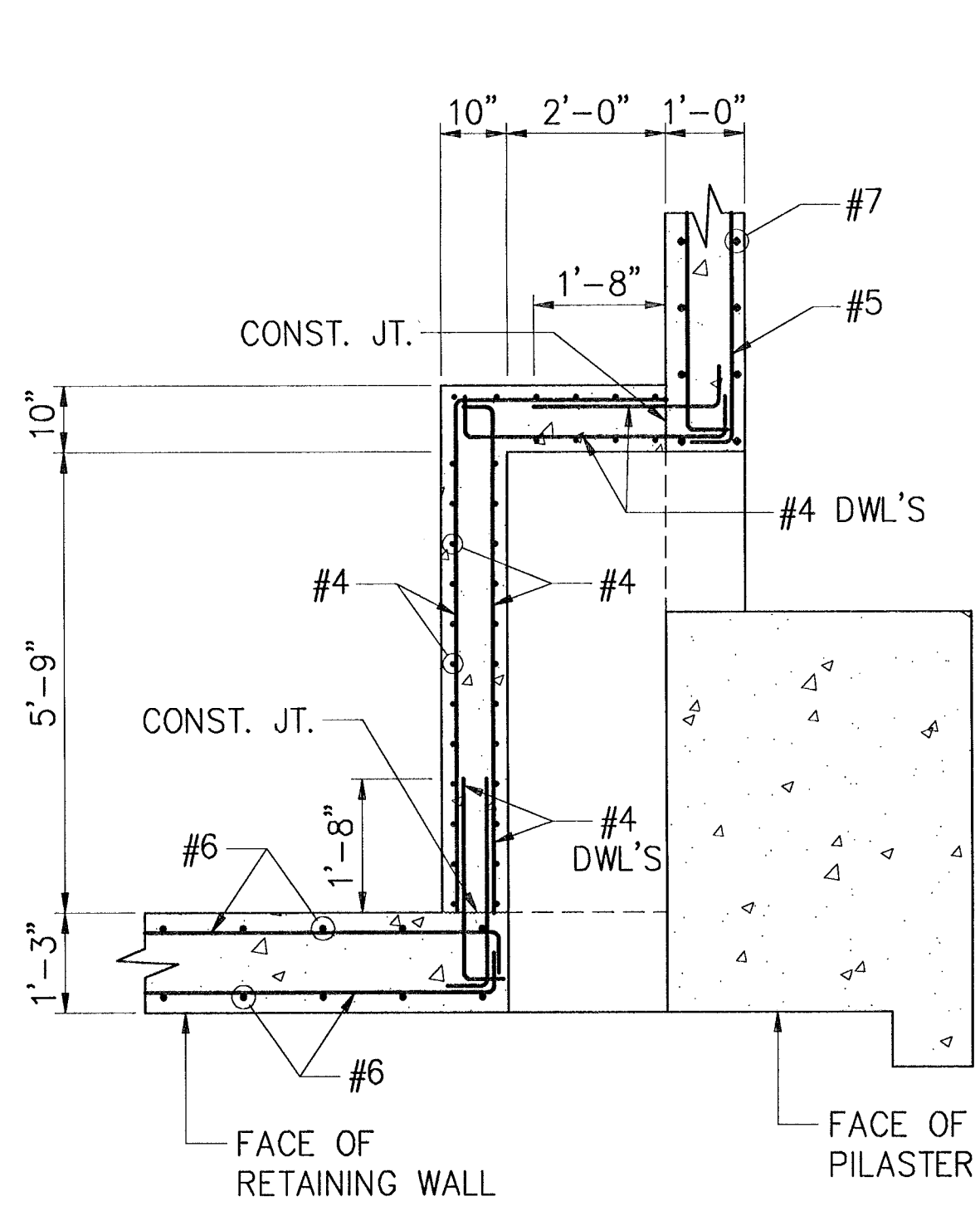
SECTION F
 SCALE: 1/4" = 1'-0"
 S10,S12
 (TYPICAL FOR WALL & MIDDLE STRIPS)

- NOTES:**
- FOR ROOF INFORMATION NOT SHOWN SEE SECTION B THIS DRAWING.
 - FOR FLOOR SLAB REINF. SEE DRAWING S-3.

NOTE: FOR ALTERNATE EARTH FILL DRAINAGE SYSTEM SEE DWG. S-13.



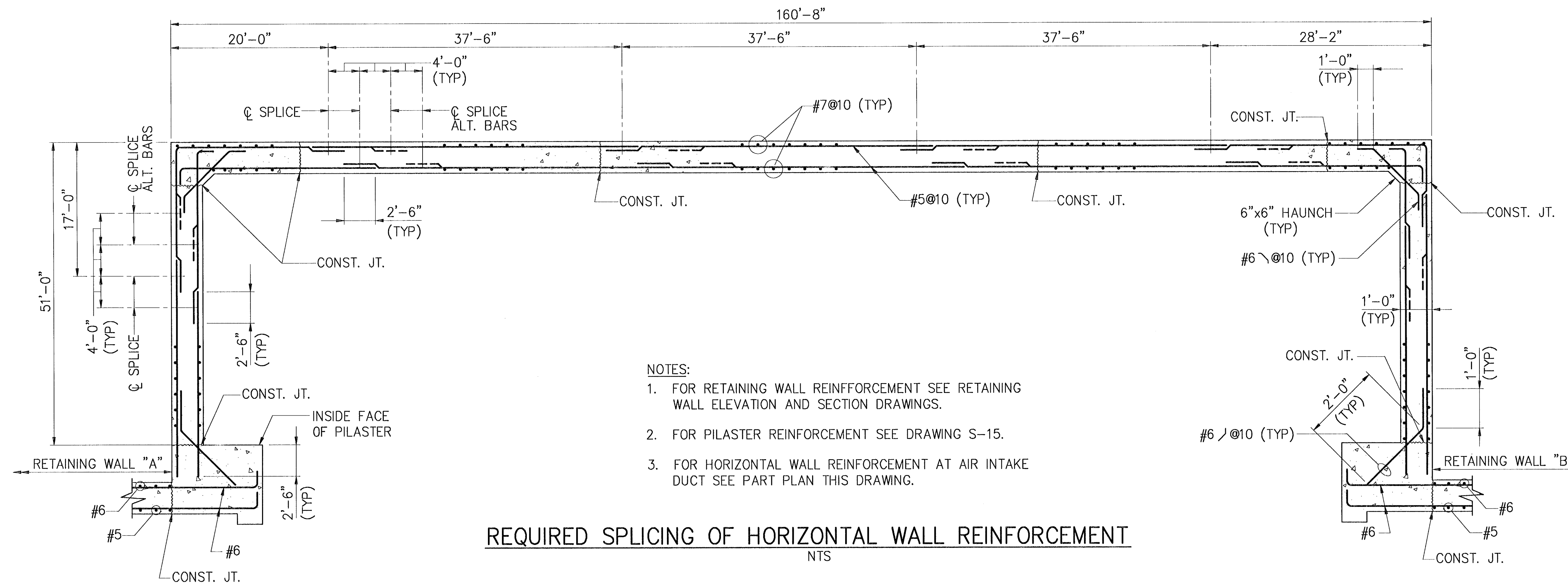
SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 WORTH ST., NEW YORK, NY 10014 DATE: 27/5/97				
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' LONGITUDINAL MAGAZINE SECTION				
SIZE	CODE (EIGHT NO)	NAVFAC DRAWING NUMBER	S-12	
D	80091	6,448,566		
SCALE	AS NOTED	CONTRACT NO	SHEET 12 OF 34	
CATEGORY CODE		SPEC NO		



PART PLAN AT AIR INTAKE DUCT

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

NOTE: FOR LOUVER & SECURITY GRILLE DETAILS SEE DWG S-25.

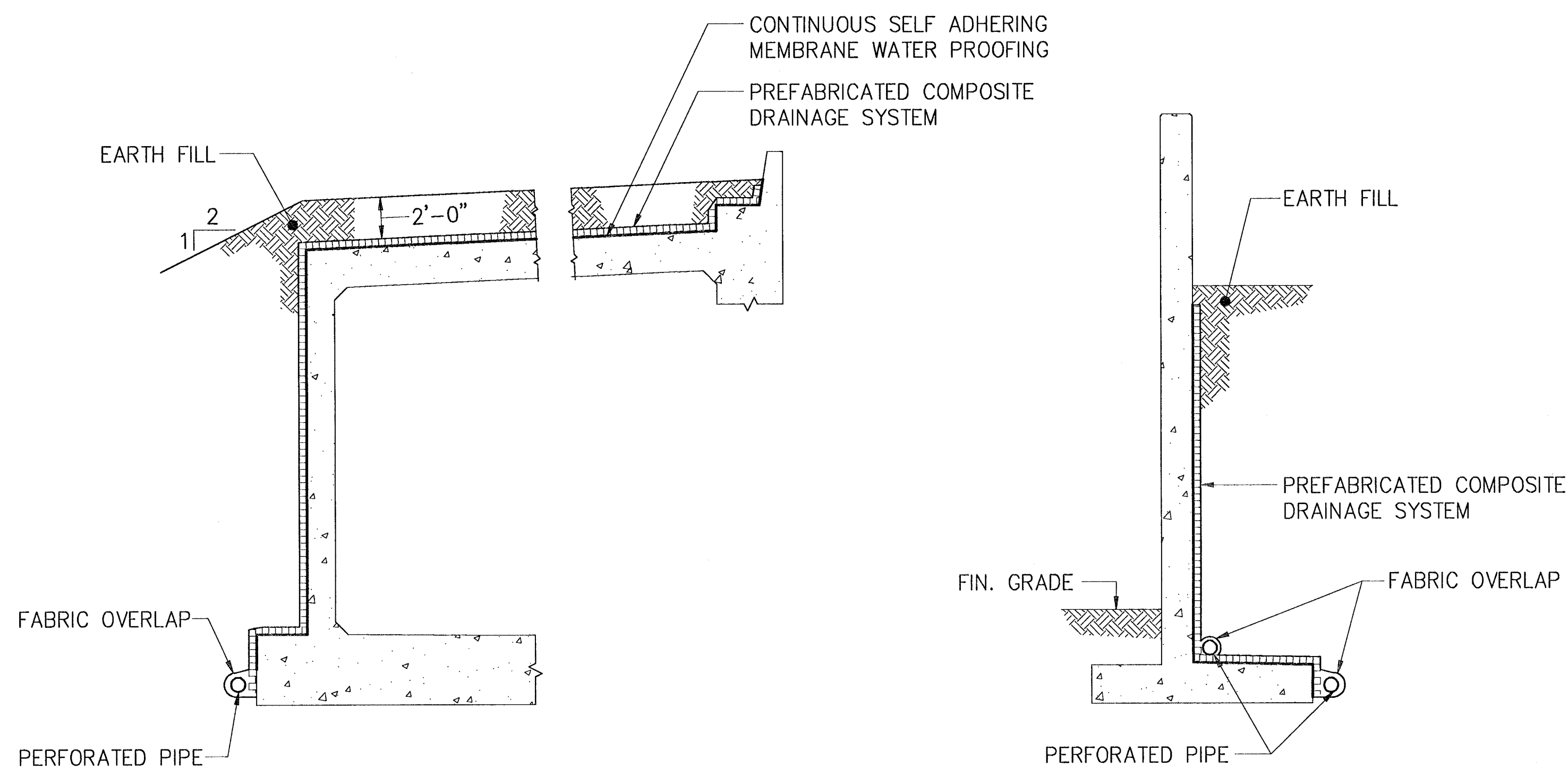


REQUIRED SPlicing OF HORIZONTAL WALL REINFORCEMENT

NTS

NOTES:

1. FOR RETAINING WALL REINFORCEMENT SEE RETAINING WALL ELEVATION AND SECTION DRAWINGS.
2. FOR PILASTER REINFORCEMENT SEE DRAWING S-15.
3. FOR HORIZONTAL WALL REINFORCEMENT AT AIR INTAKE DUCT SEE PART PLAN THIS DRAWING.



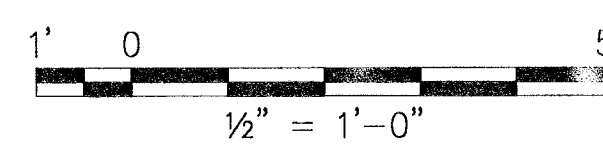
BUILDING ROOF & WALLS

RETAINING WALLS

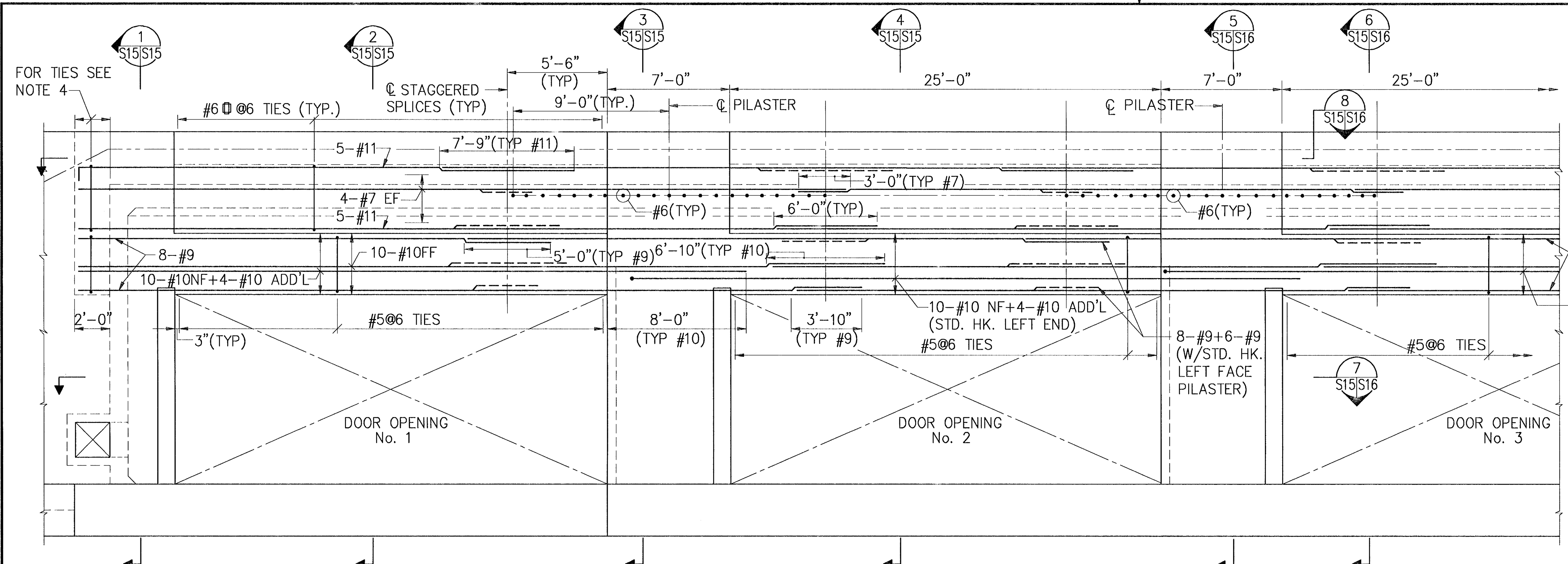
ALTERNATE EARTH FILL DRAINAGE SYSTEM

NTS

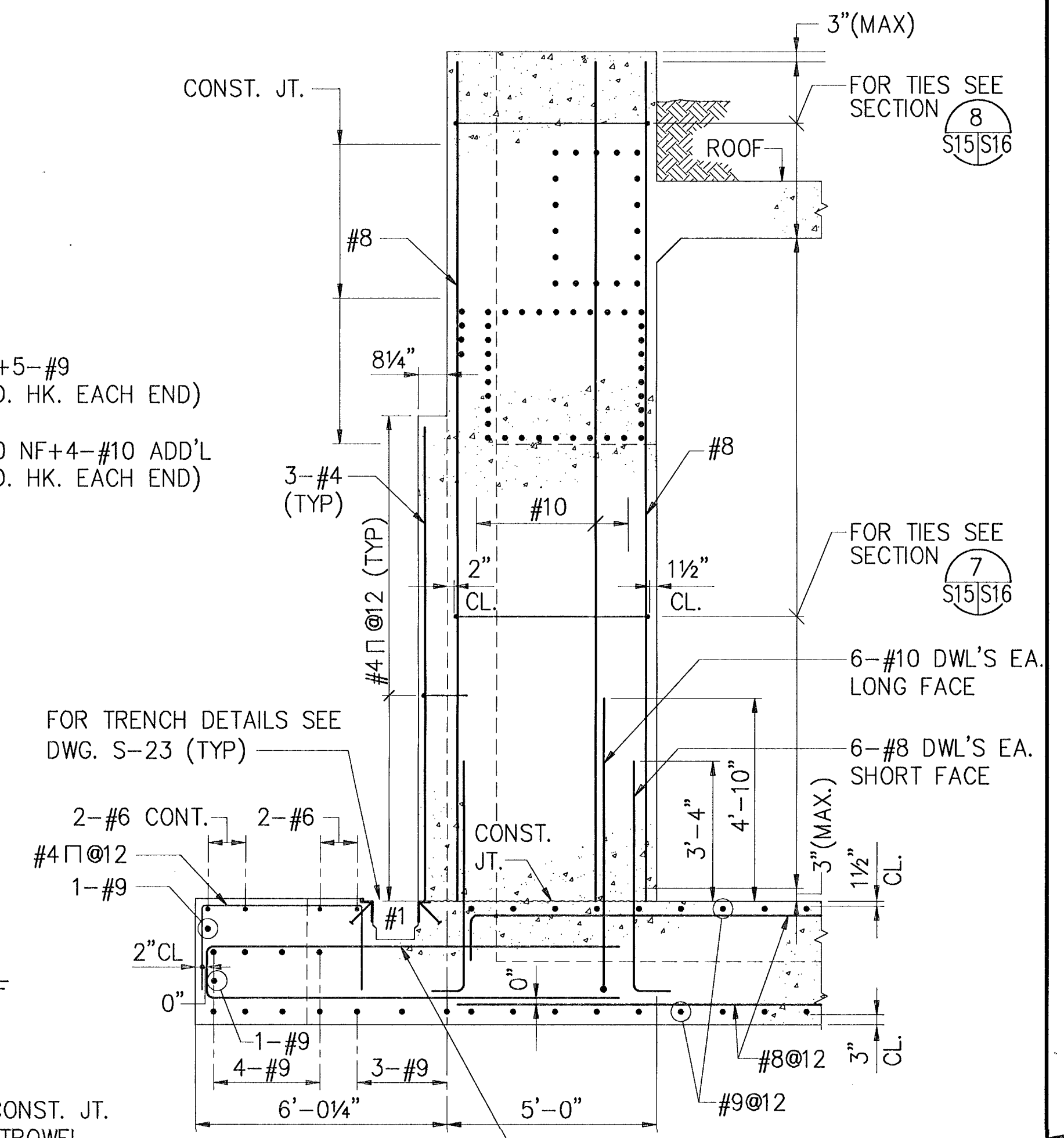
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY



SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 95 MORTON ST., NEW YORK, NY 10014 DATE: 27/5/97 PRINCIPAL ENGINEER: Ron Brady ENGINEER IN CHARGE: R. Brady CRITERIA MANAGER: R. Brady NAVFAC/ROOM:						
NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' HORIZONTAL MAGAZINE SECTION						
SIZE: D	CODE IDENT NO: 80091	NAVFAC DRAWING NUMBER: 6,448,567	S-13			
SCALE: AS NOTED	CONTRACT NO:	SHEET 13 OF 34				



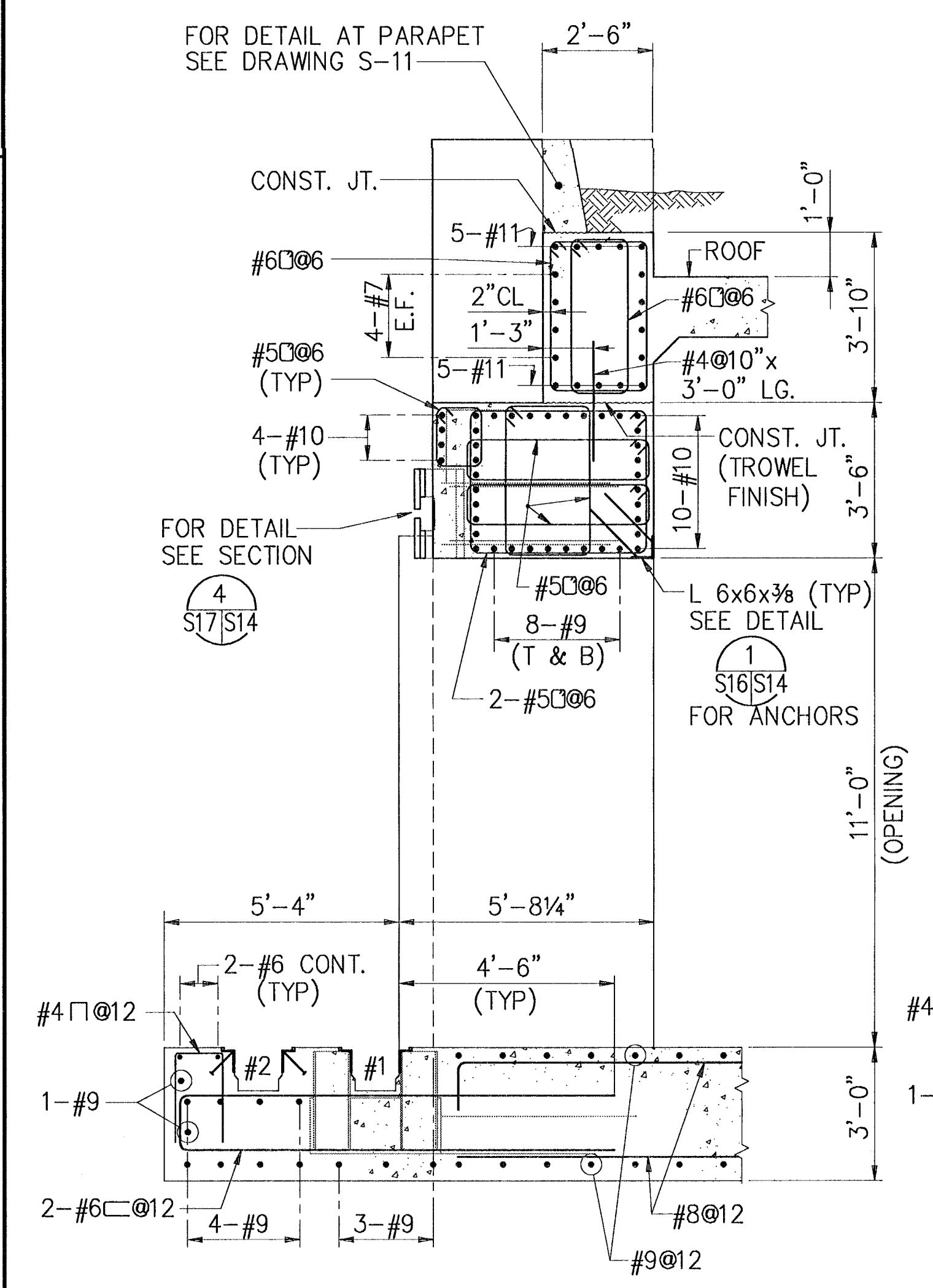
ELEVATION 1 AS SHOWN 2 OPP. HAND
SCALE: 1/4" = 1'-0"



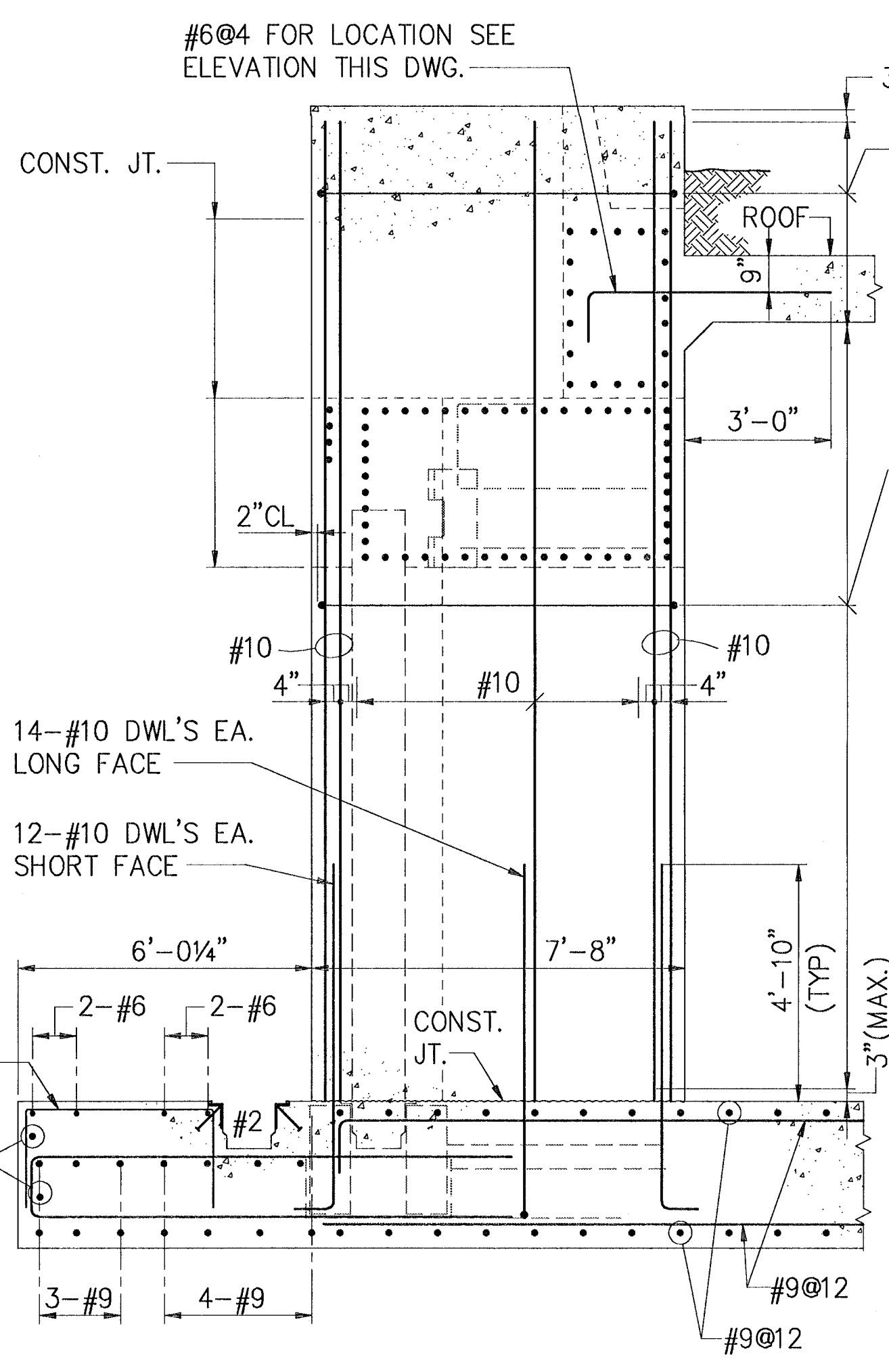
SECTION 1
SCALE: 3/8" = 1'-0"

NOTES:

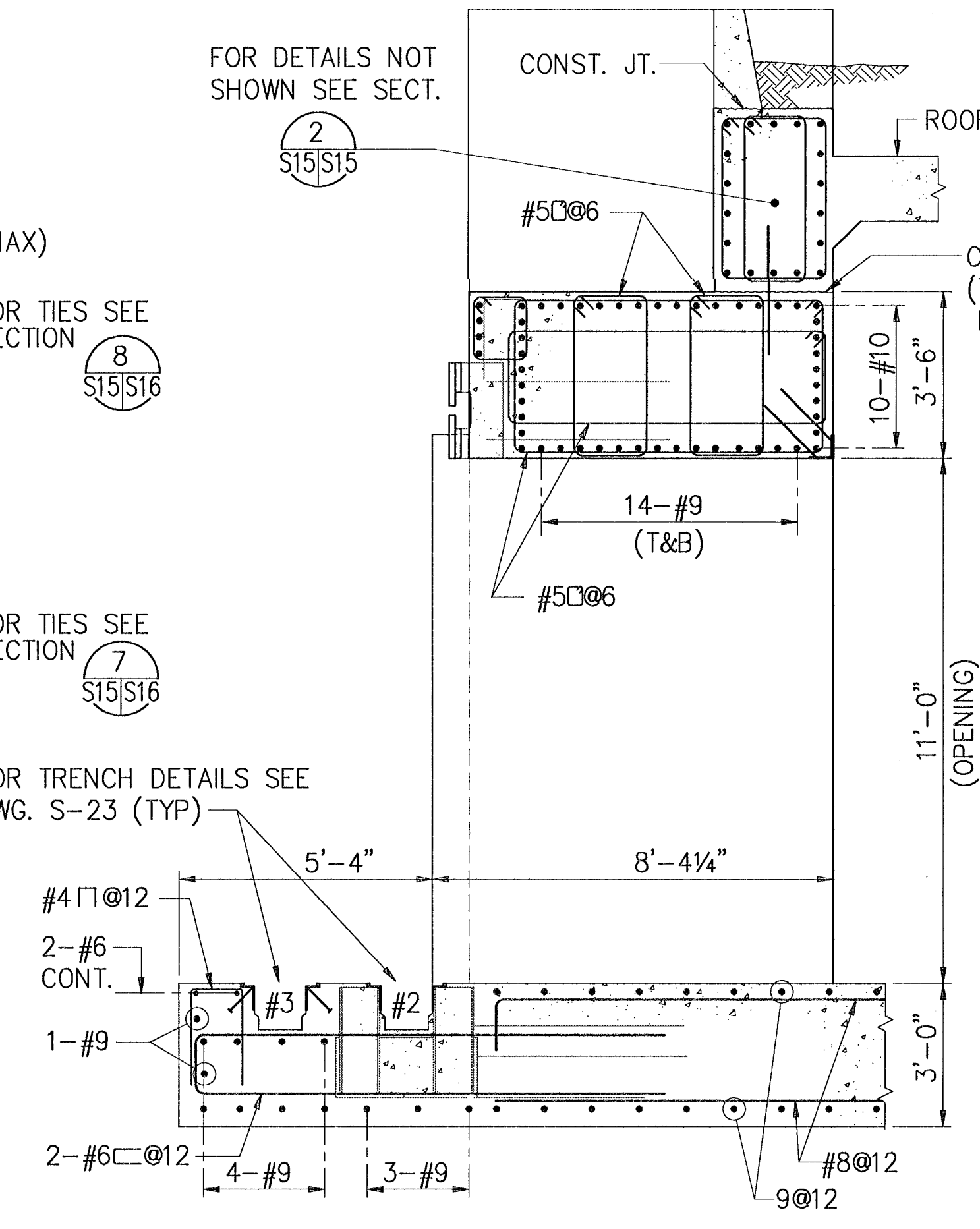
1. FOR RETAINING WALL REINFORCEMENT SEE RETAINING WALL ELEVATION AND SECTION DRAWINGS.
2. FOR STAGGERED SPLICES: BAR SPLICE INDICATED THUS ALTERNATE BAR SPLICE INDICATED THUS
3. ALL PILASTERS SHALL BE PLUMB, ALLOWABLE DEVIATION FROM THE VERTICAL SHALL NOT EXCEED 1/4" PER 10'-0" VERTICAL HEIGHT.
4. PROVIDE TIES SAME AS SECTION 2



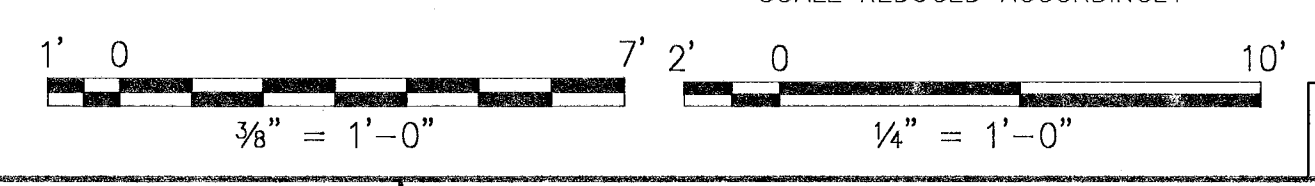
SECTION 2
SCALE: 3/8" = 1'-0"



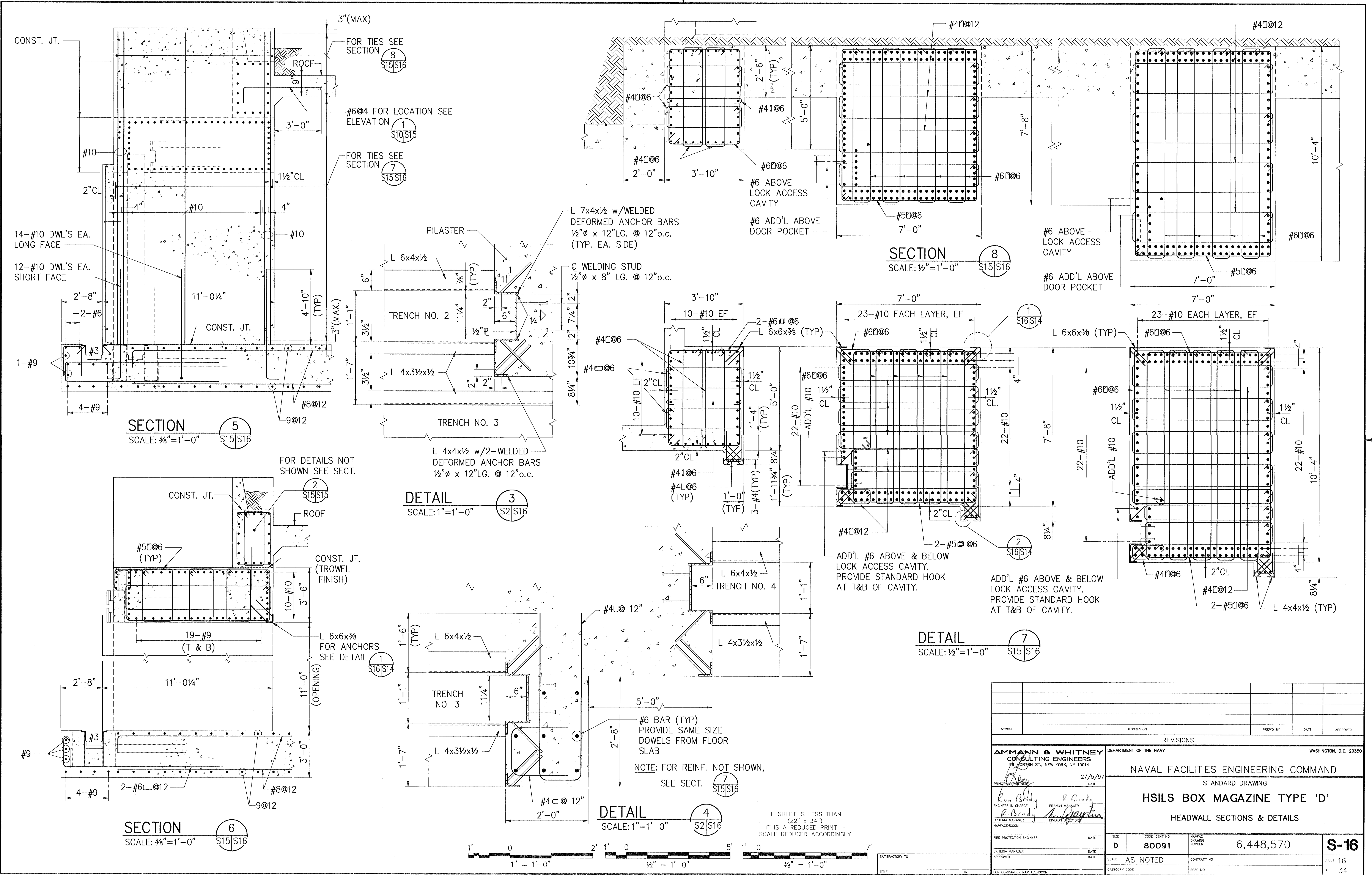
SECTION 3
SCALE: 3/8" = 1'-0"



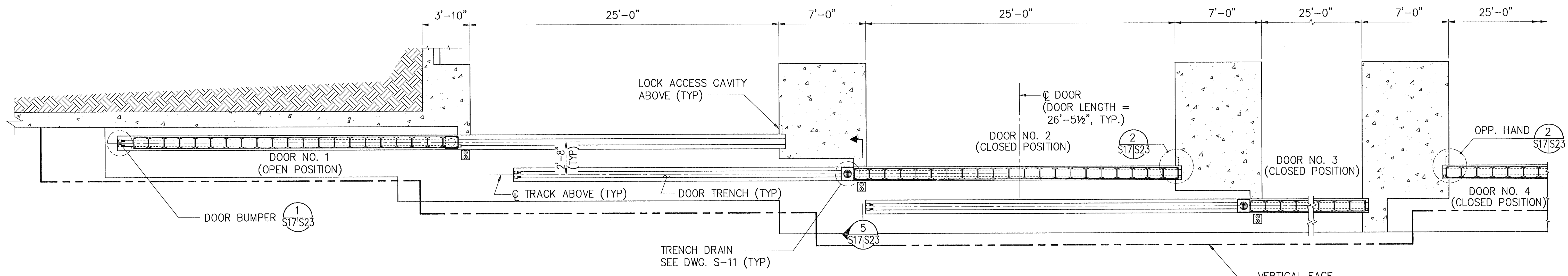
SECTION 4
SCALE: 3/8" = 1'-0"



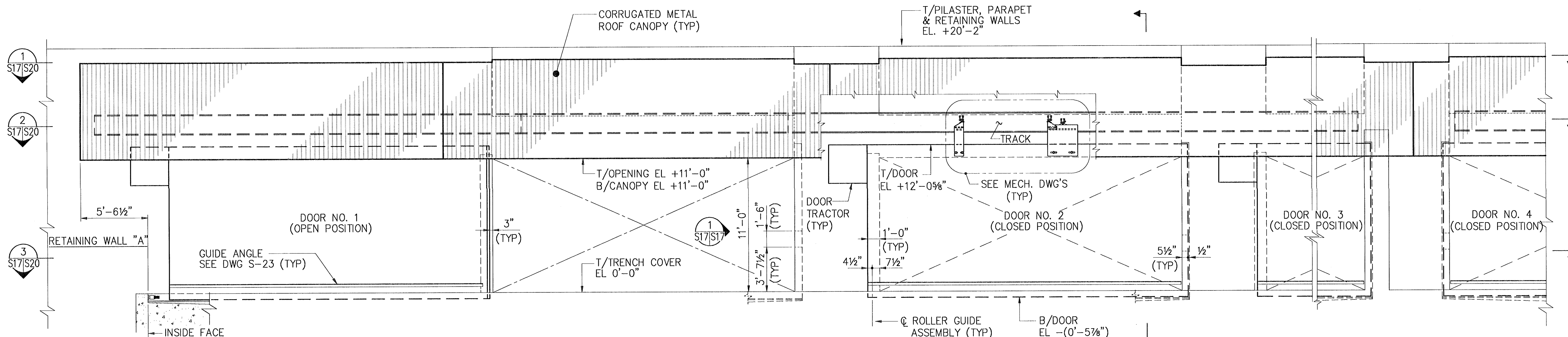
SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014						
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350						
NAVAL FACILITIES ENGINEERING COMMAND						
STANDARD DRAWING						
HSILS BOX MAGAZINE TYPE 'D'						
HEADWALL ELEVATION & SECTIONS						
DATE	DATE	DATE	DATE	DATE	DATE	DATE
27/5/97						
SIZE	CODE SENT NO	NAVFAC DRAWING NUMBER	CONTRACT NO	SHEET 15 OF 34		
D	80091	6,448,569		S-15		
SCALE	AS NOTED	CATEGORY CODE				



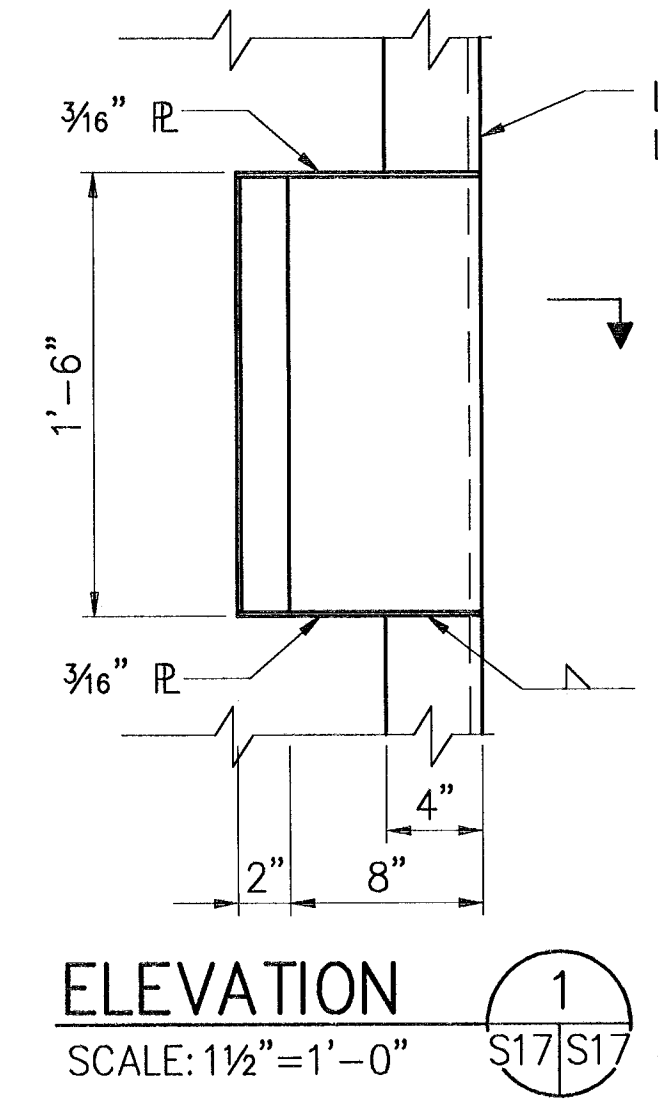
SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014						
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' HEADWALL SECTIONS & DETAILS						
ENGINEER IN CHARGE <i>R. Brady</i>	BRANCH MANAGER <i>R. Brady</i>	DATE 27/5/97				
CRITERIA MANAGER <i>R. Brady</i>	DIVISION DIRECTOR <i>A. Hayman</i>	DATE				
NAVFACDROOM						
SIZE D	CODE IDENT NO. 80091	NAVFAC DRAWING NUMBER 6,448,570	S-16			
SCALE AS NOTED	CONTRACT NO.	SHEET 16 OF 34				



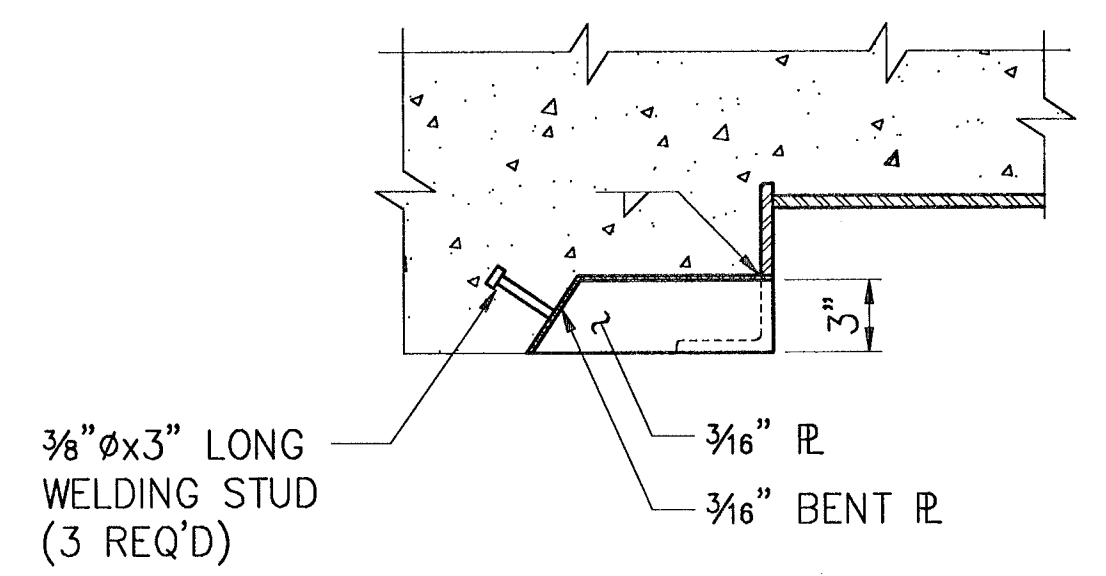
PARTIAL PLAN AT SLIDING DOORS
SCALE: 1/4" = 1'-0"



PARTIAL FRONT WALL ELEVATION
SCALE: 1/4" = 1'-0"



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



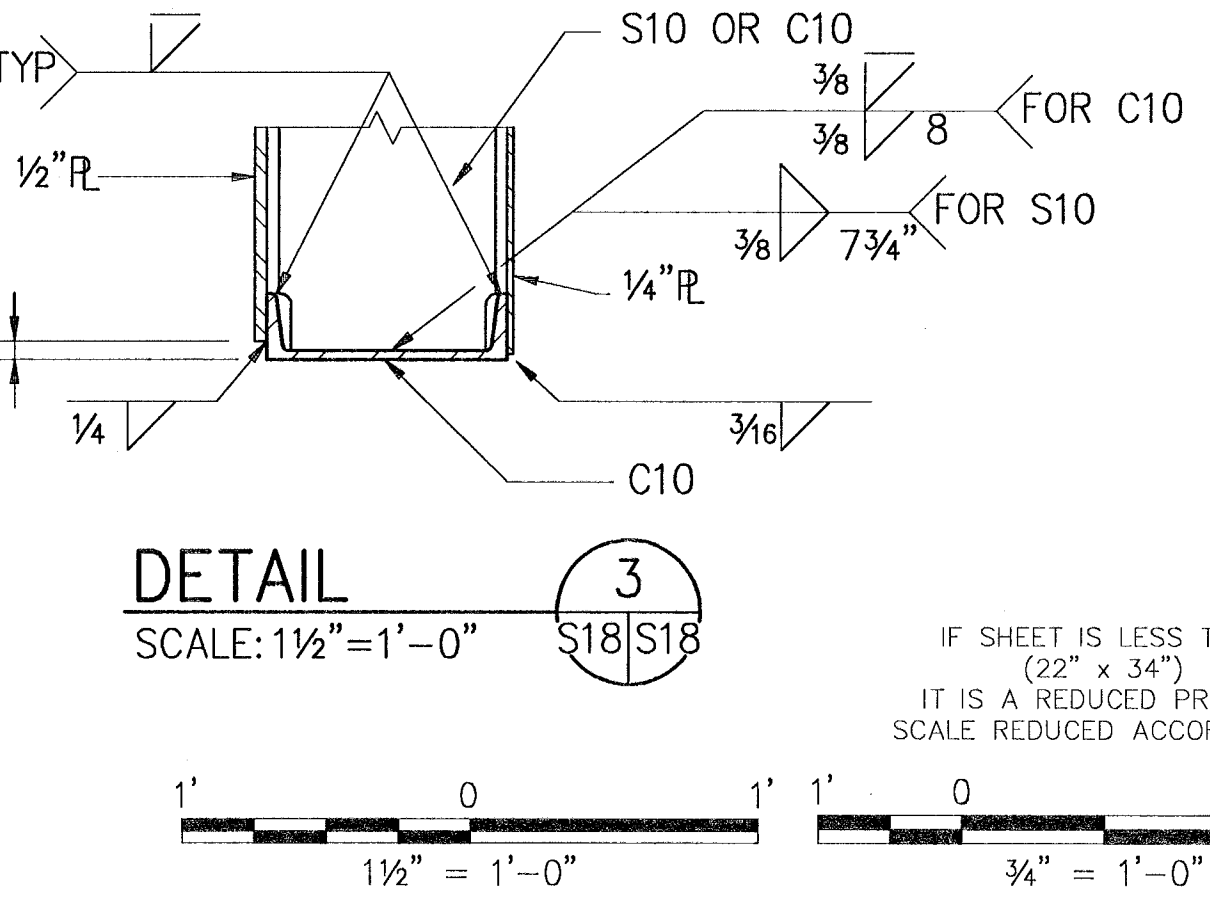
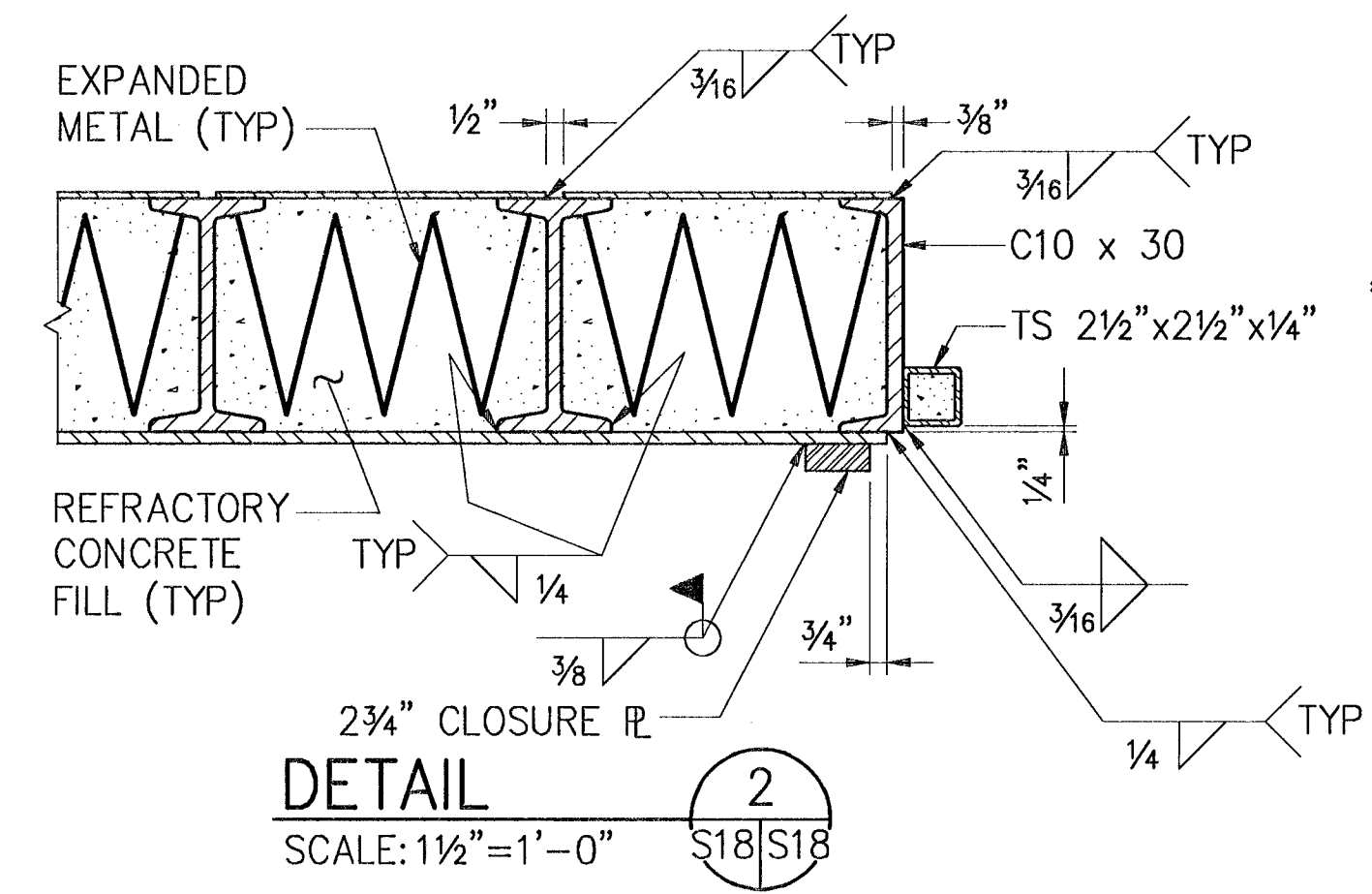
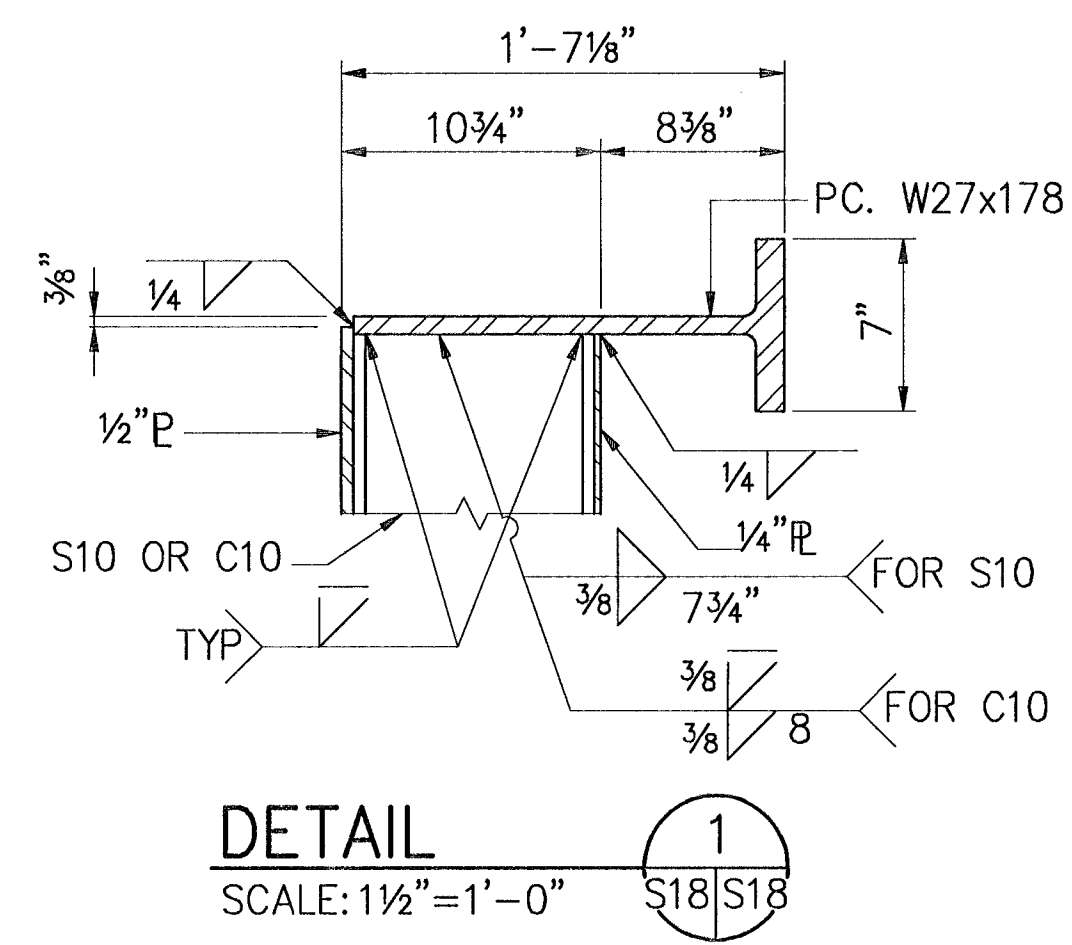
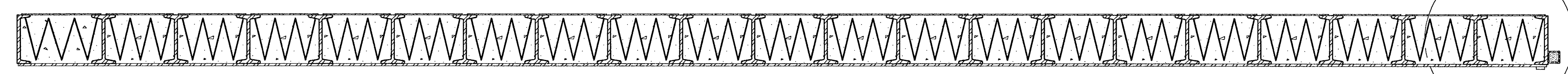
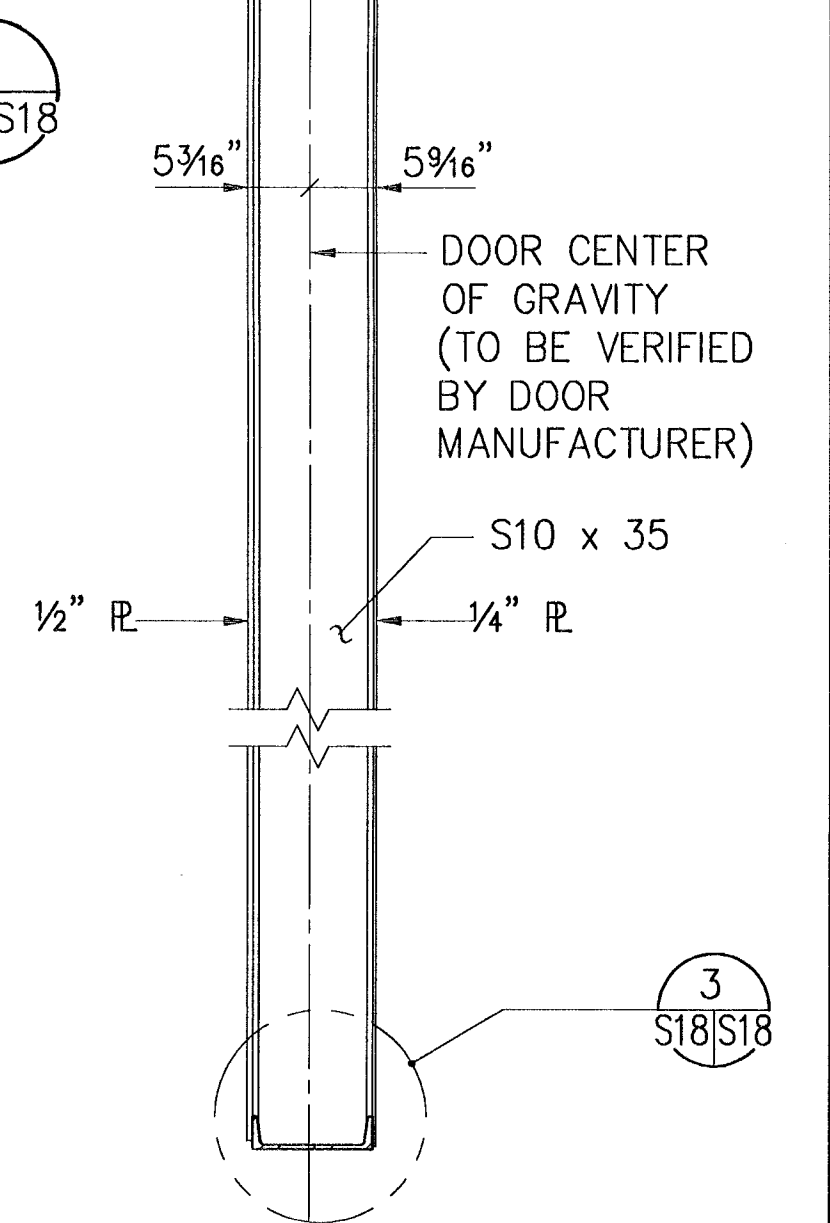
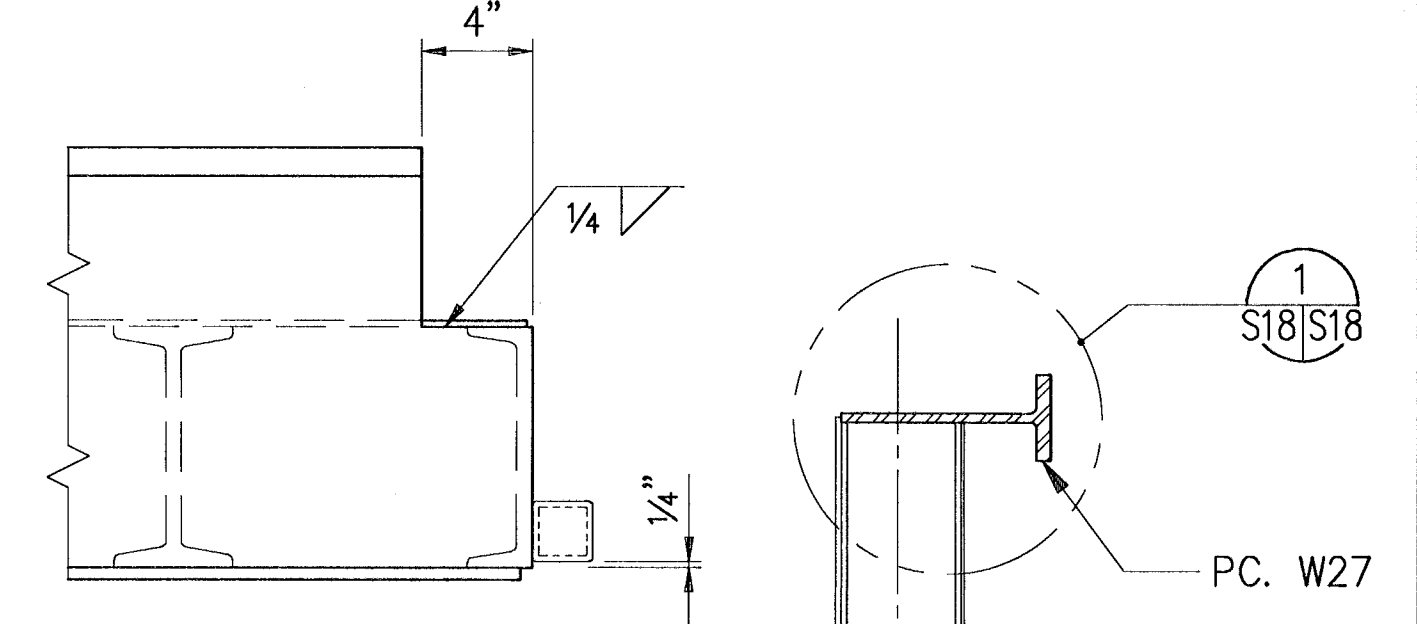
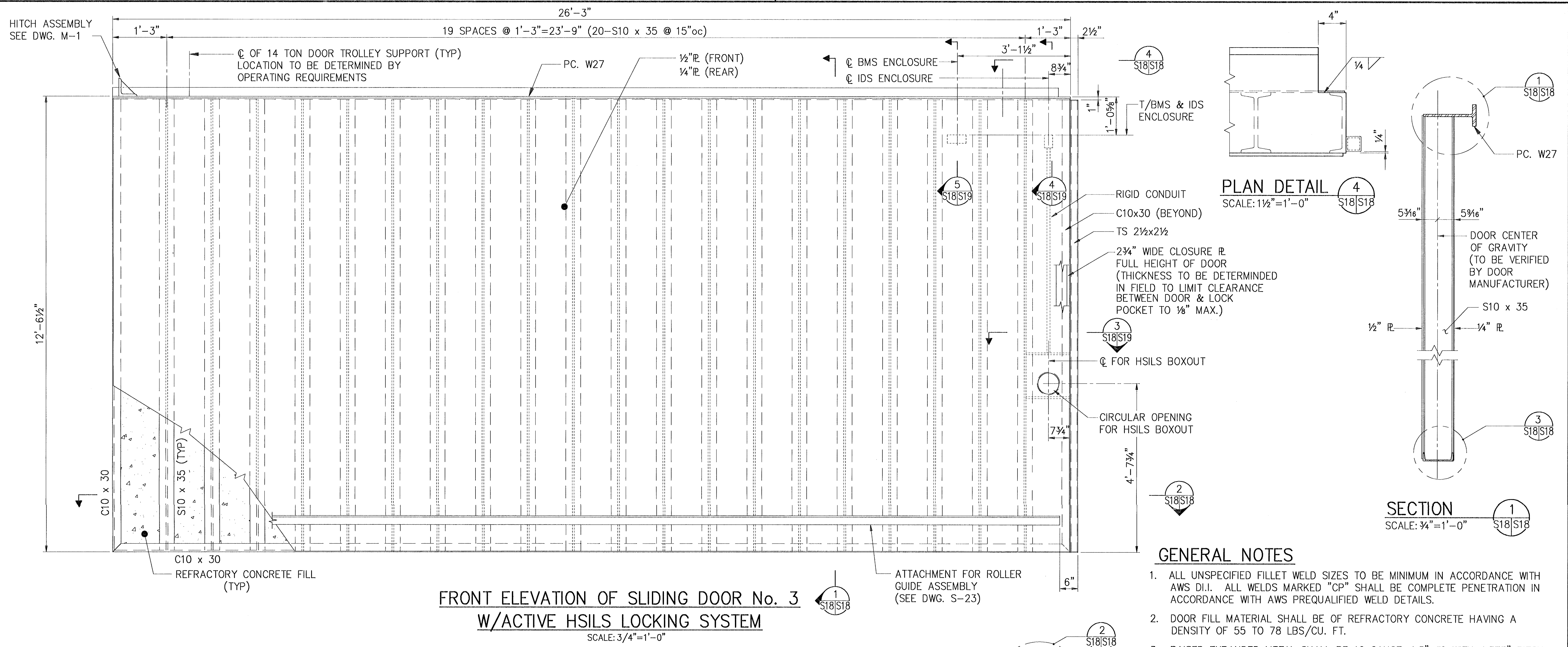
SECTION 6
SCALE: 1 1/2" = 1'-0"

- NOTES:**
1. DOOR #4 AND DOOR #5 ARE OPPOSITE HAND. SEE DWG. S-2 FOR ORIENTATION.
 2. ANGLES AROUND OPENINGS OMITTED FOR CLARITY.
 3. FOR DOOR DETAILS SEE DWG. S-18.
 4. FOR DOOR TRACTOR ASSEMBLY SEE DWG'S M-1, M-2 AND M-3.
 5. FOR DOOR SHOCK ABSORBERS OPERATING REQUIREMENTS SEE DWG. S-23.
 6. FOR BRUSH WEATHERSTRIP AROUND DOOR SEE SECTION 4.

IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

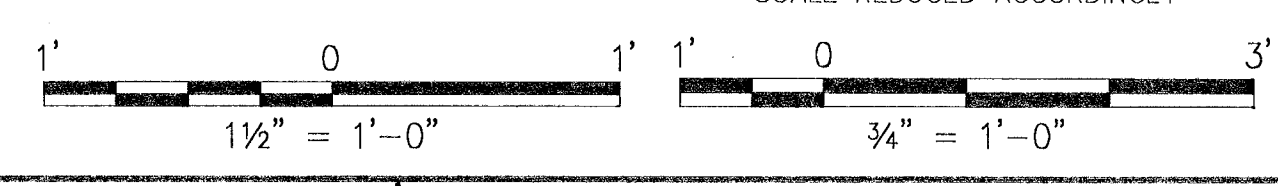
2' 0" 10'
1/4" = 1'-0"

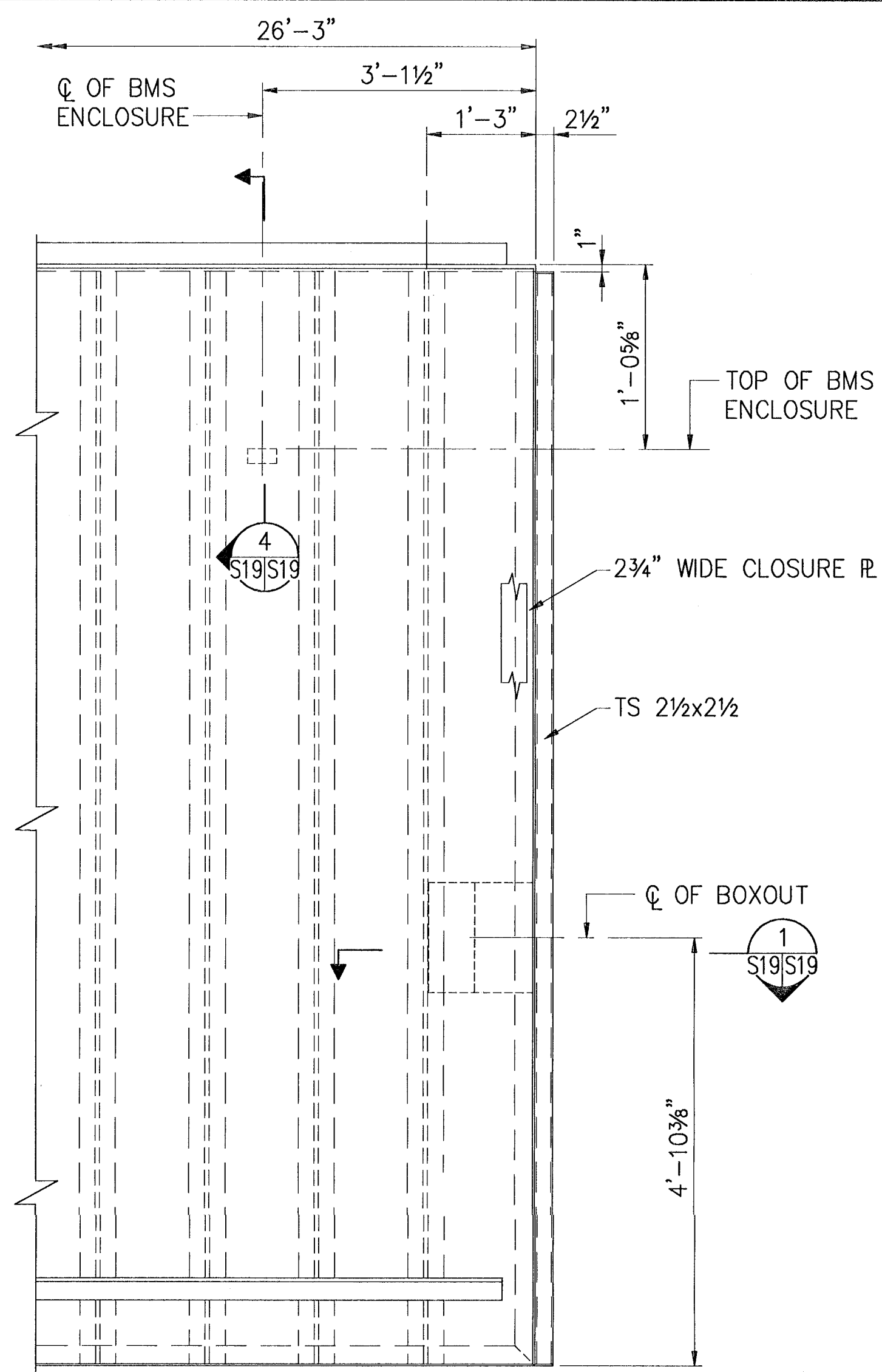
SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 WESTON ST., NEW YORK, NY 10014				
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350				
NAVAL FACILITIES ENGINEERING COMMAND				
STANDARD DRAWING				
HSILS BOX MAGAZINE TYPE 'D'				
SLIDING DOOR - PLAN & ELEVATION				
DATE	27/5/97			
ENGINEER IN CHARGE	R. Brody	BRANCH MANAGER		
CRITERIA MANAGER	R. Brody	DIVISION DIRECTOR		
FIRE PROTECTION ENGINEER		DATE	SIZE	CODE IDENT NO
CRITERIA MANAGER		DATE	D	80091
APPROVED		DATE	SCALE	AS NOTED
FOR COMMANDER NAVFACENGCNM		DATE	CATEGORY CODE	NAVFAC DRAWING NUMBER
			6,448,571	S-17
			SPEC NO	SHEET 17
				OF 34



- GENERAL NOTES**
- ALL UNSPECIFIED FILLET WELD SIZES TO BE MINIMUM IN ACCORDANCE WITH AWS D1.1. ALL WELDS MARKED "CP" SHALL BE COMPLETE PENETRATION IN ACCORDANCE WITH AWS PREQUALIFIED WELD DETAILS.
 - DOOR FILL MATERIAL SHALL BE OF REFRACTORY CONCRETE HAVING A DENSITY OF 55 TO 78 LBS/CU. FT.
 - RAISED EXPANDED METAL SHALL BE 10 GAUGE, 1.5" #9 WITH 4.375" PITCH, WELDED TO THE DOOR INTERIOR S10'S AT 6" O.C.
 - HIGH SECURITY INTERNAL LOCKING SYSTEM (HSILS), BALANCED MAGNETIC SWITCH (BMS) AND INTRUSION DETECTION SYSTEM (IDS) WILL BE GOVERNMENT FURNISHED AND GOVERNMENT INSTALLED EXCEPT HSILS LOCK BOXOUT AND BMS AND IDS ENCLOSURES WHICH SHALL BE CONTRACTOR INSTALLED.
 - COORDINATE INSTALLATION OF GOVERNMENT FURNISHED ITEMS PRIOR TO PLACEMENT OF REFRACTORY CONCRETE FILL.

SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 88 MORTON ST., NEW YORK, NY 10014 DATE: 27/5/97 ENGINEER IN CHARGE: R. Brody DESIGNER: R. Brody CHECKER: R. Brody DIVISION: DIVISION				
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' SLIDING DOOR - ELEVATION, SECTIONS & DETAILS				
SIZE: D	CODE IDENT NO: 80091	NAVFAC DRAWING NUMBER: 6,448,5772	S-18	
SCALE: AS NOTED	CONTRACT NO:	SHEET 18 OF 34		



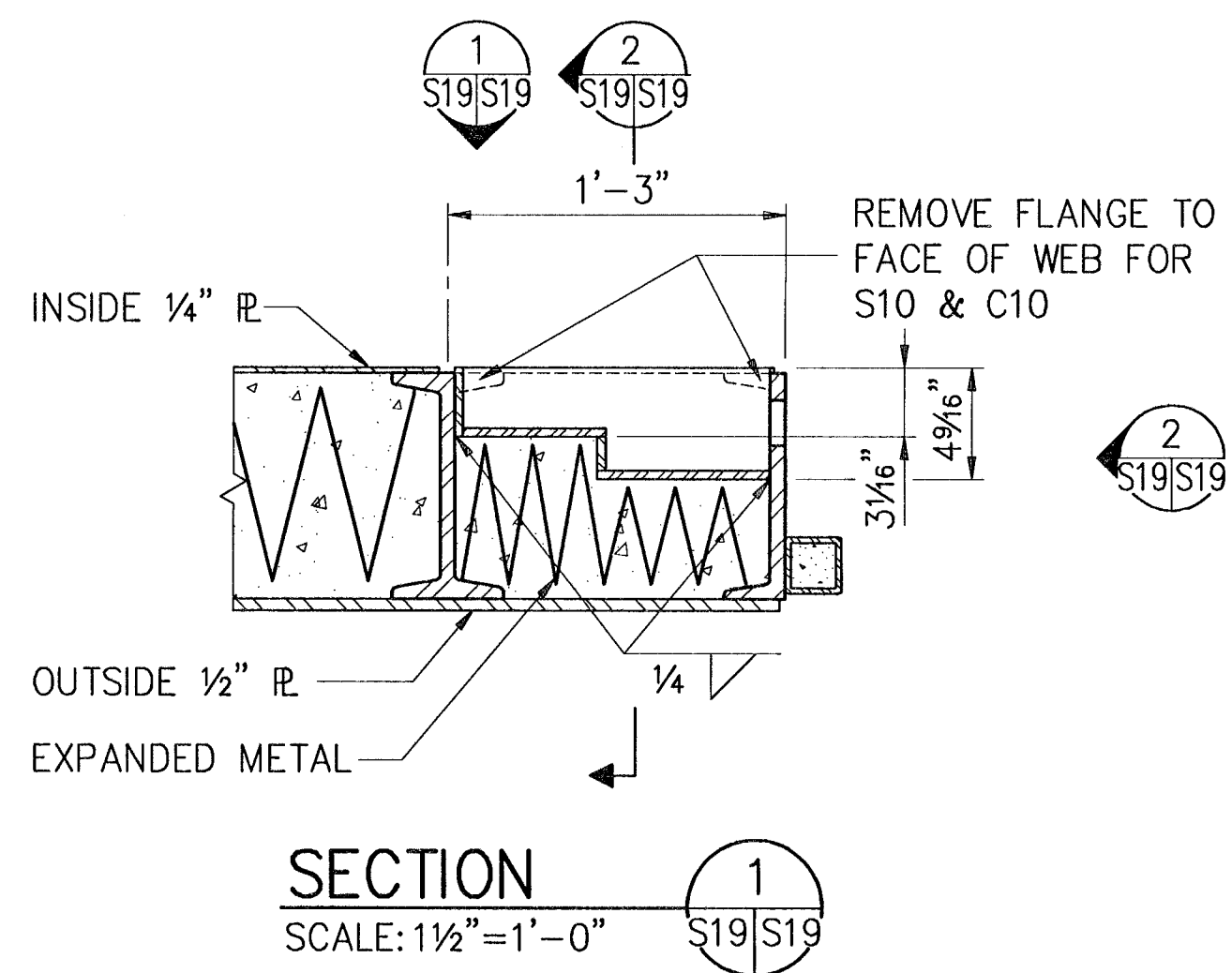


NOTE: FOR INFORMATION NOT SHOWN SEE DWG. S-18.

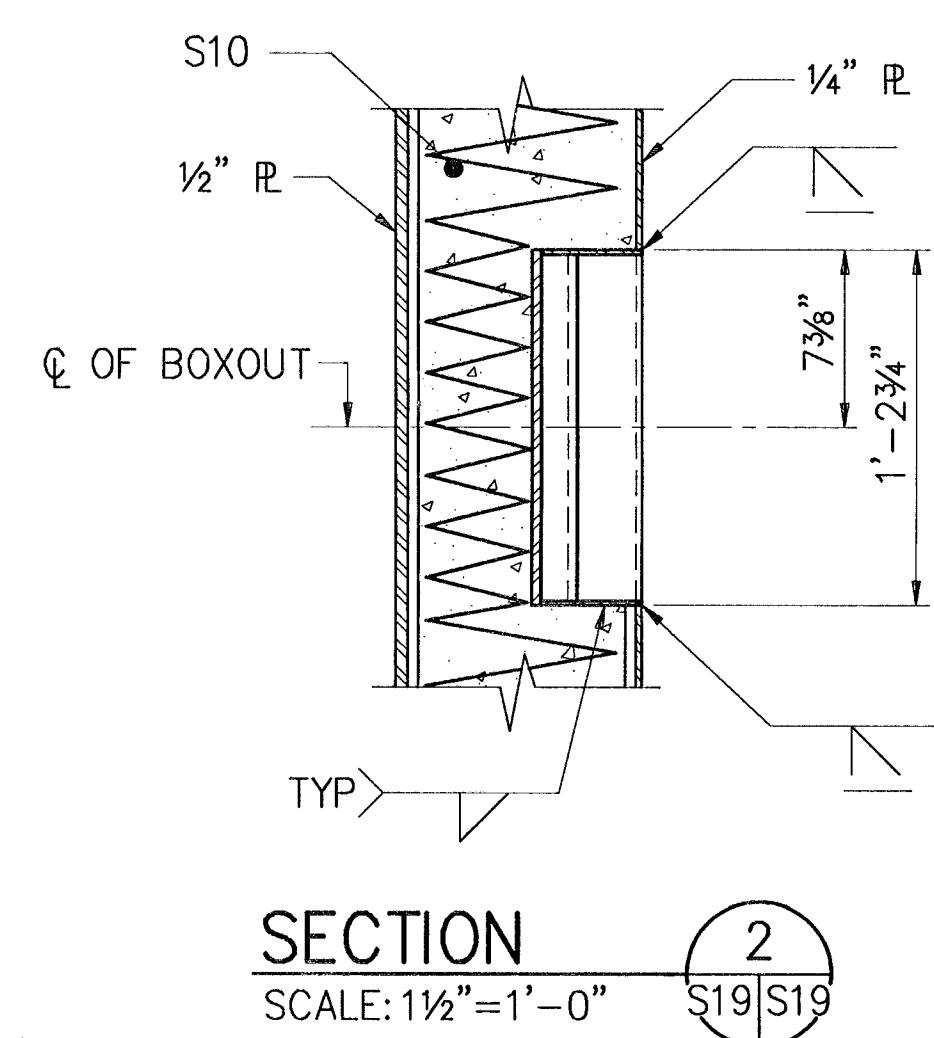
PARTIAL FRONT ELEVATION OF DOOR NOS. 1, 2, 4, & 5 W/INACTIVE HSILS LOCKING SYSTEM

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

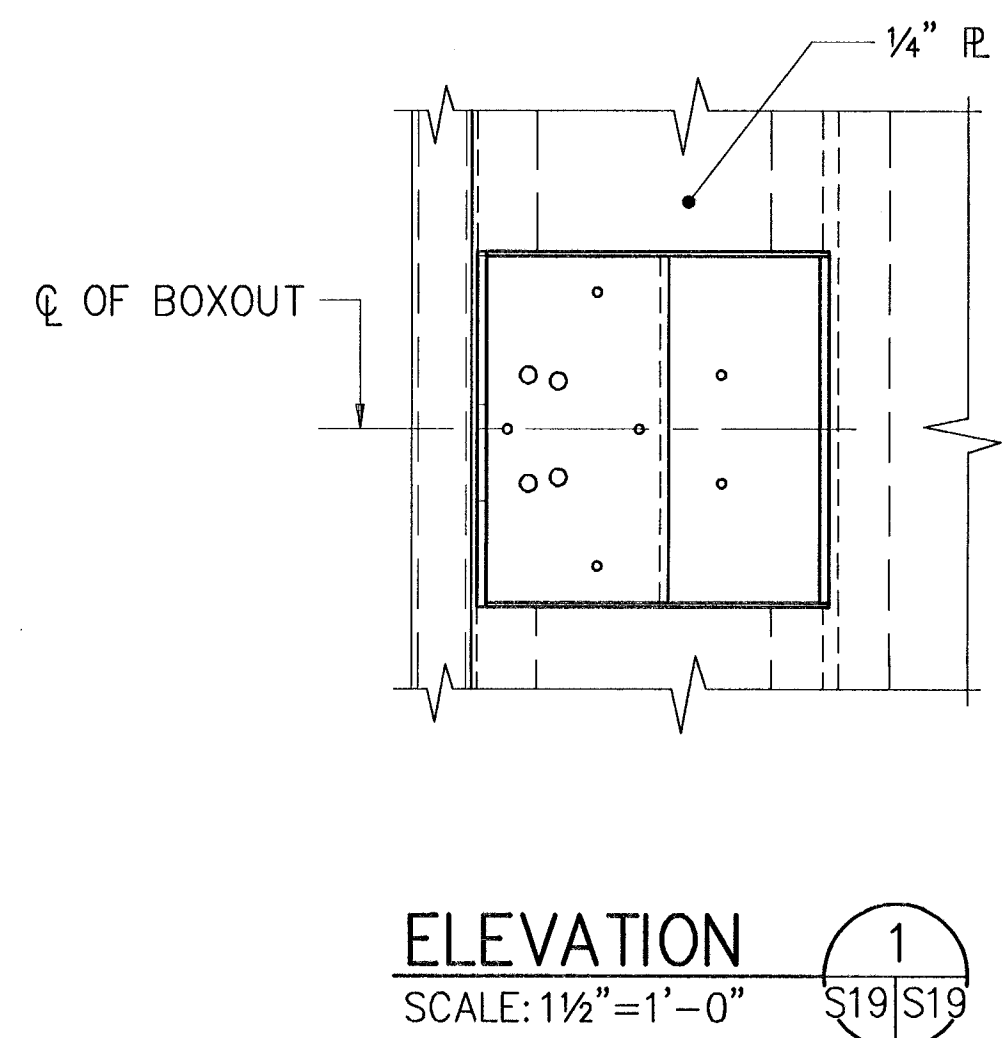
NOTE: DOOR NOS. 4 & 5 OPPOSITE HAND



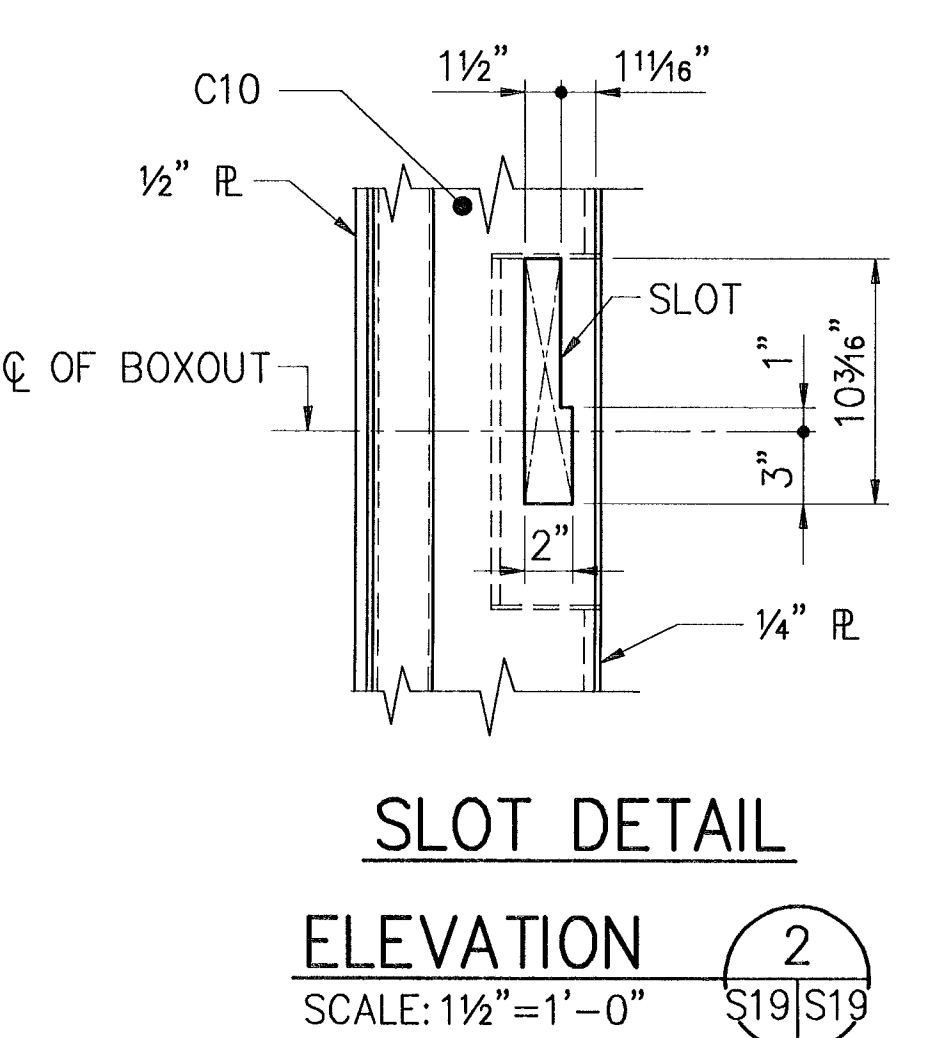
SECTION 1
SCALE: 1 1/2" = 1'-0"



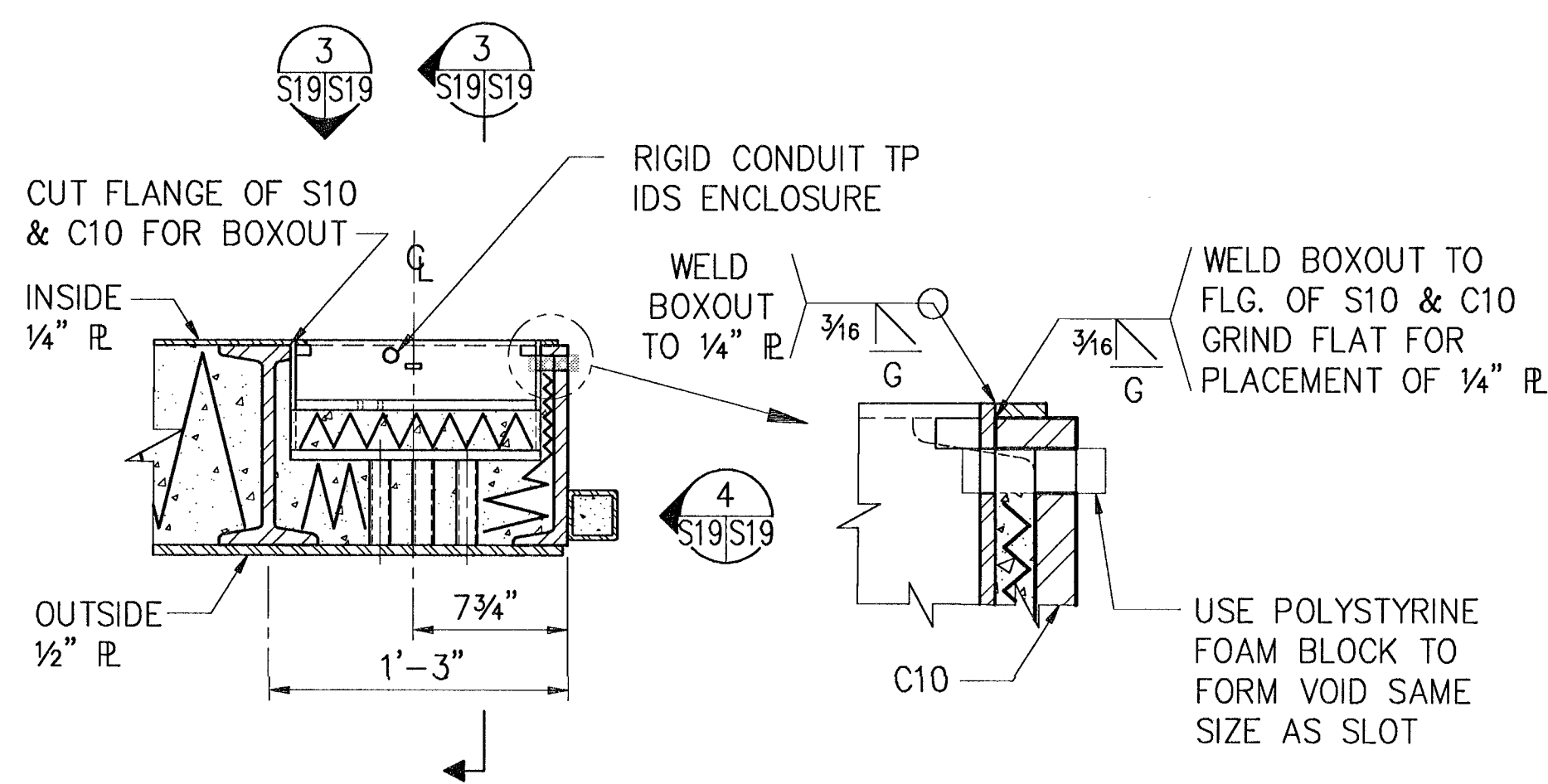
SECTION 2
SCALE: 1 1/2" = 1'-0"



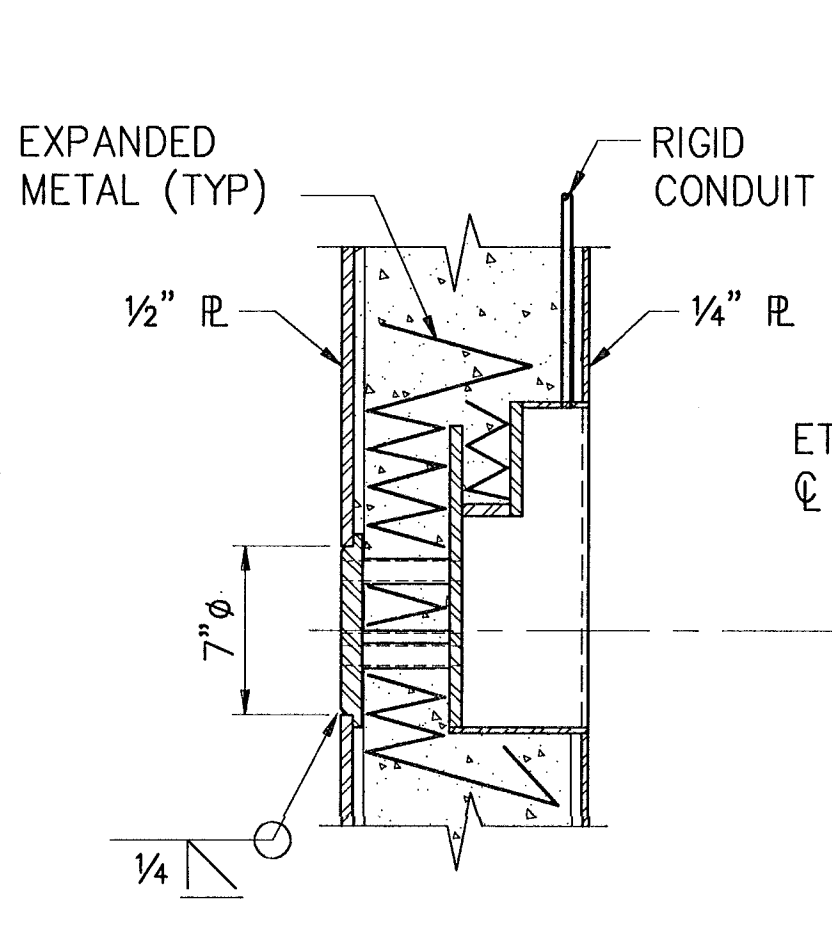
ELEVATION 1
SCALE: 1 1/2" = 1'-0"



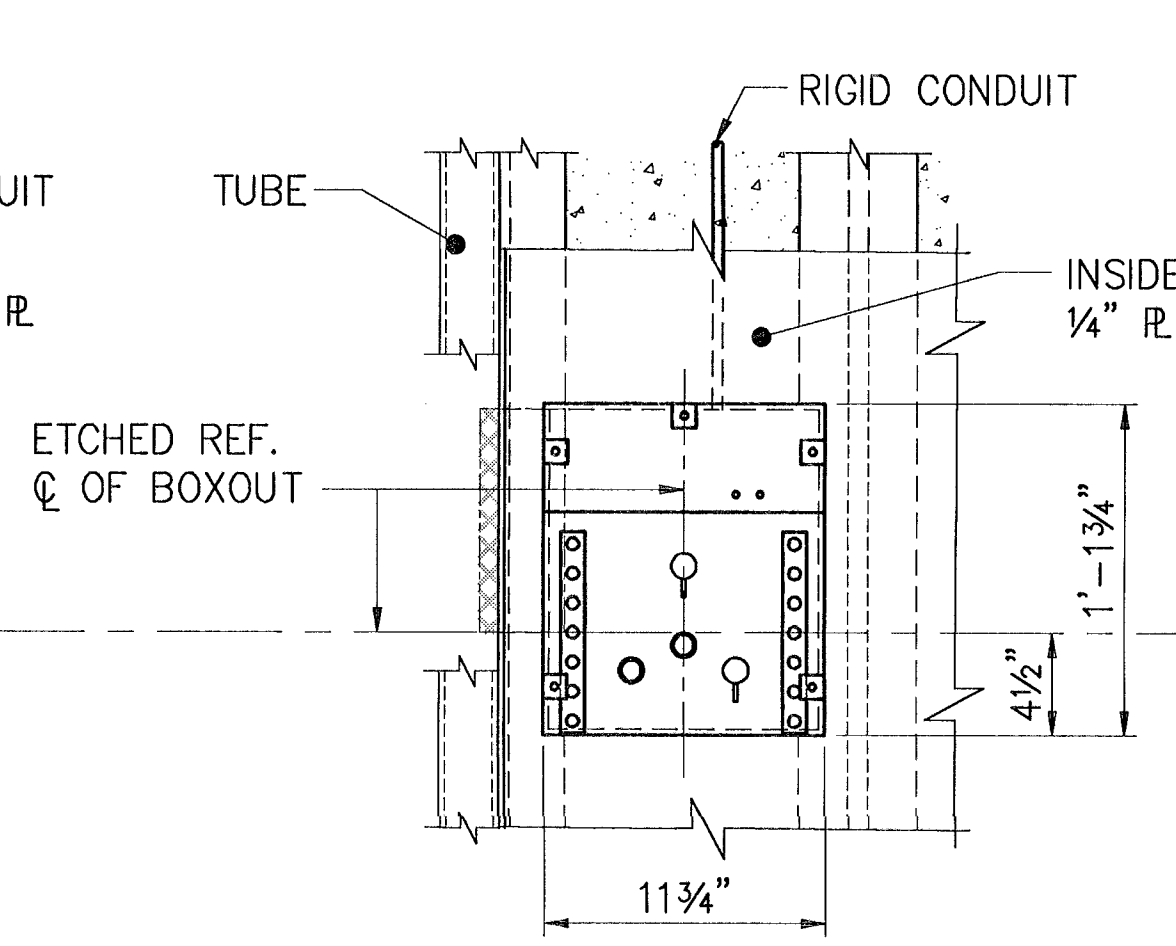
ELEVATION 2
SCALE: 1 1/2" = 1'-0"



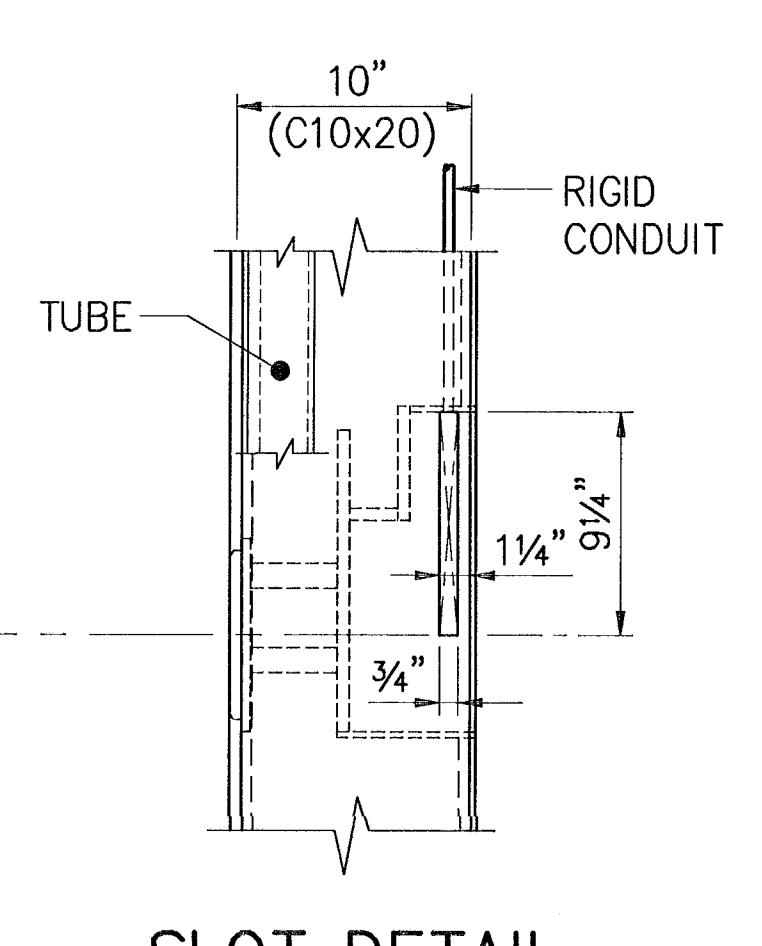
SECTION 3
SCALE: 1 1/2" = 1'-0"



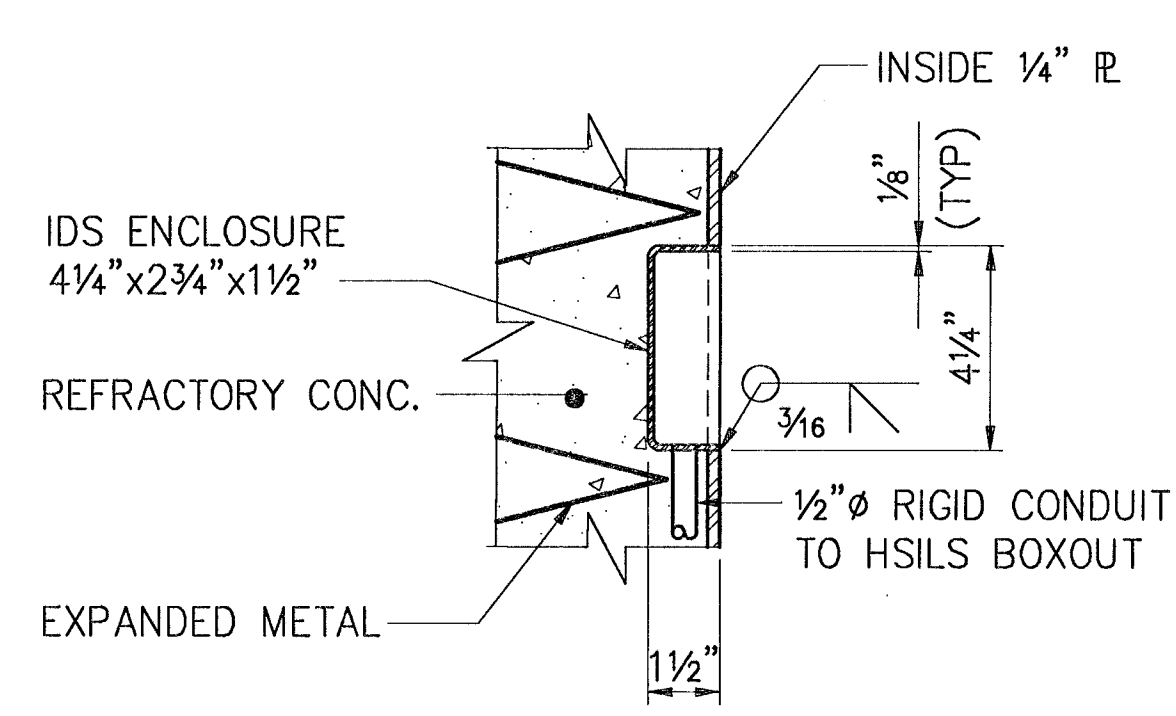
SECTION 3
SCALE: 1 1/2" = 1'-0"



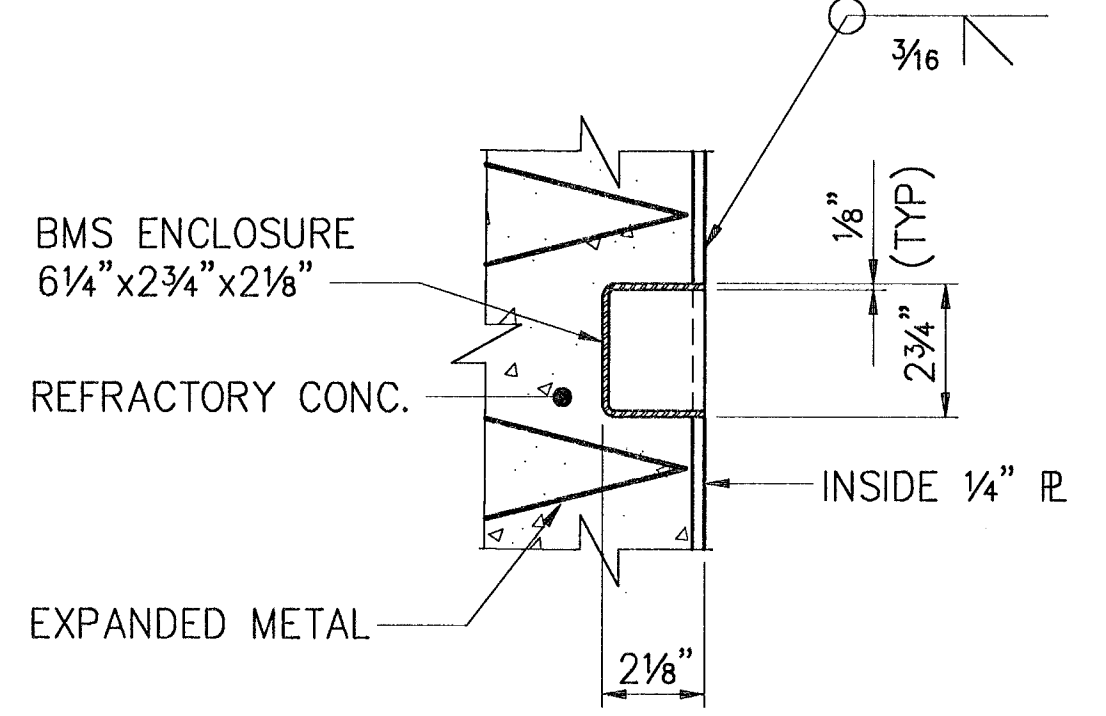
ELEVATION 3
SCALE: 1 1/2" = 1'-0"



ELEVATION 4
SCALE: 1 1/2" = 1'-0"

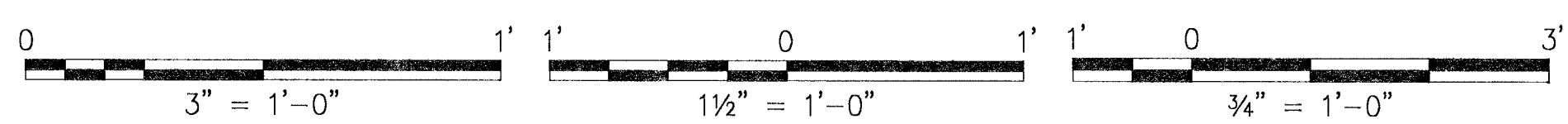


SECTION 4
SCALE: 3" = 1'-0"

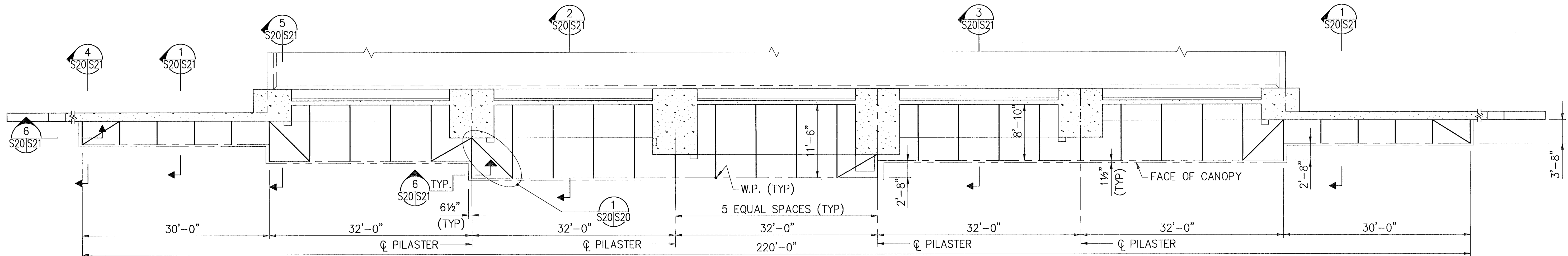


SECTION 5
SCALE: 3" = 1'-0"

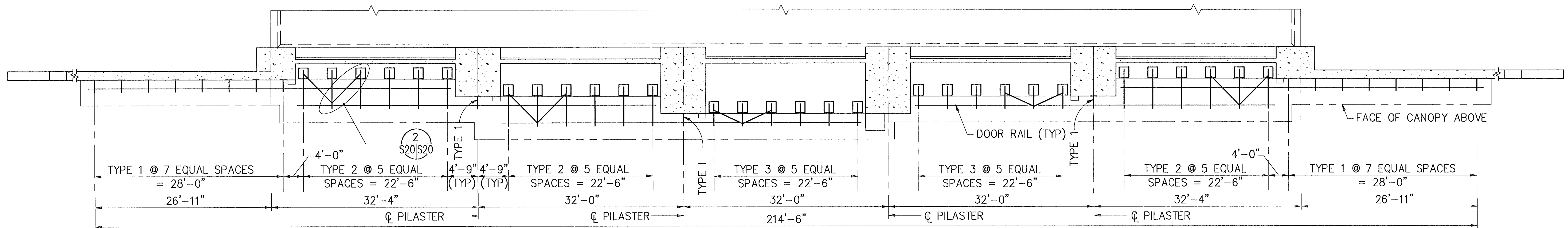
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY



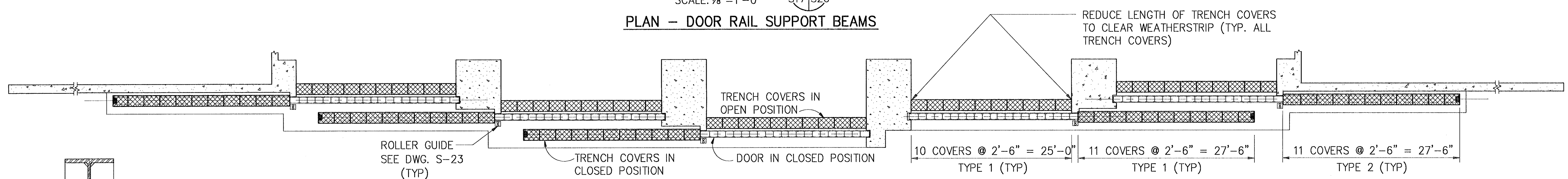
SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 85 BARTON ST., NEW YORK, NY 10014 DATE: 27/5/97 PROJECT (AGENCY): ENGINEER IN CHARGE: R. Brady DESIGN MANAGER: R. Brady CRITERIA MANAGER: R. Brady NAVFACENSGOM:				
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' LOCK DETAILS				
FIRE PROTECTION ENGINEER	DATE	SHEET NO.	CONTRACT NO.	S-19
CRITERIA MANAGER	DATE	6,448,573		
APPROVED	DATE	SCALE: AS NOTED	SPEC NO.	SHEET 19 OF 34
FOR COMMANDER NAVFACENSGOM				



SECTION 1
SCALE: 1/8" = 1'-0"
PLAN - CANOPY SUPPORT FRAMES

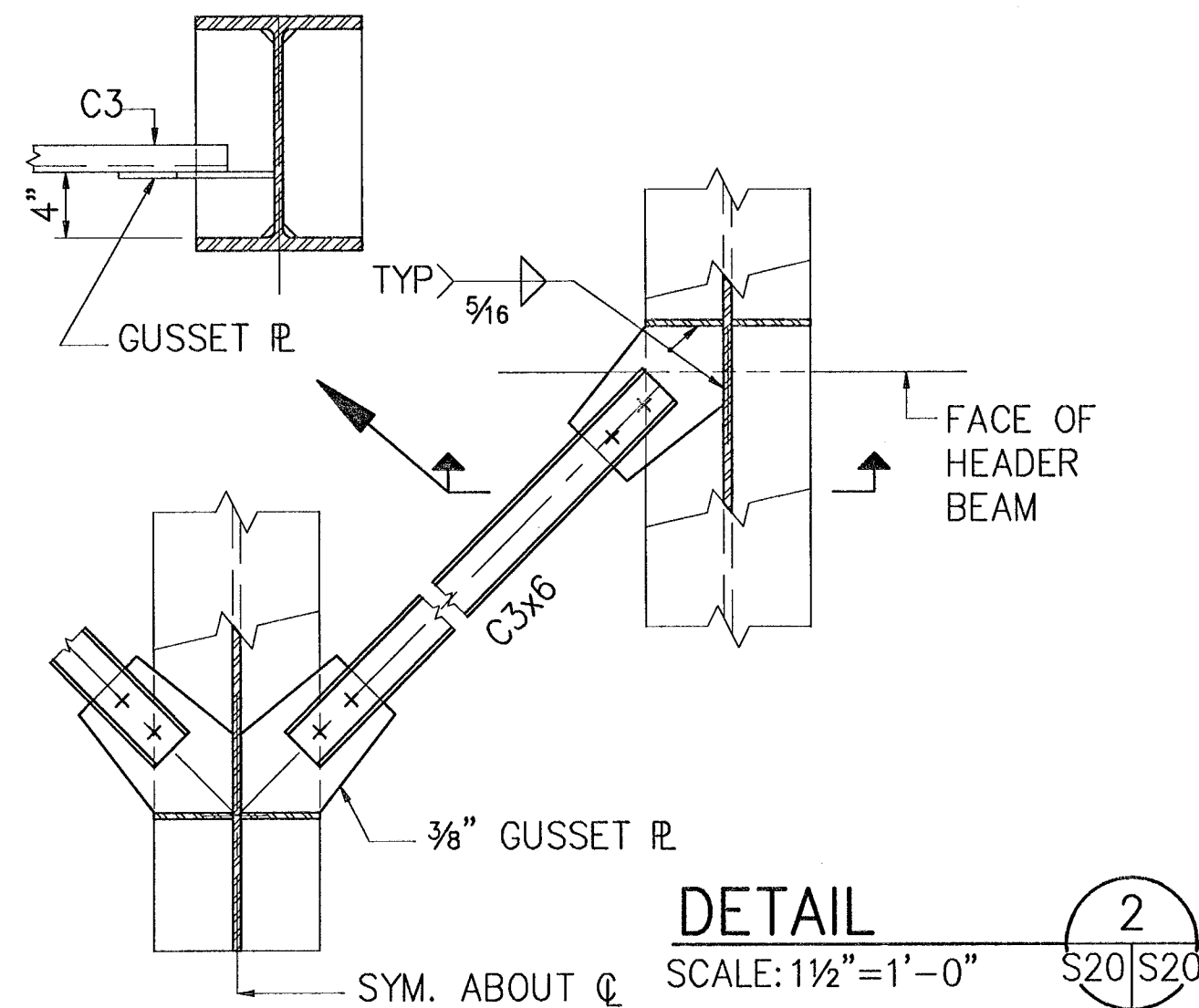


SECTION 2
SCALE: 1/8" = 1'-0"
PLAN - DOOR RAIL SUPPORT BEAMS

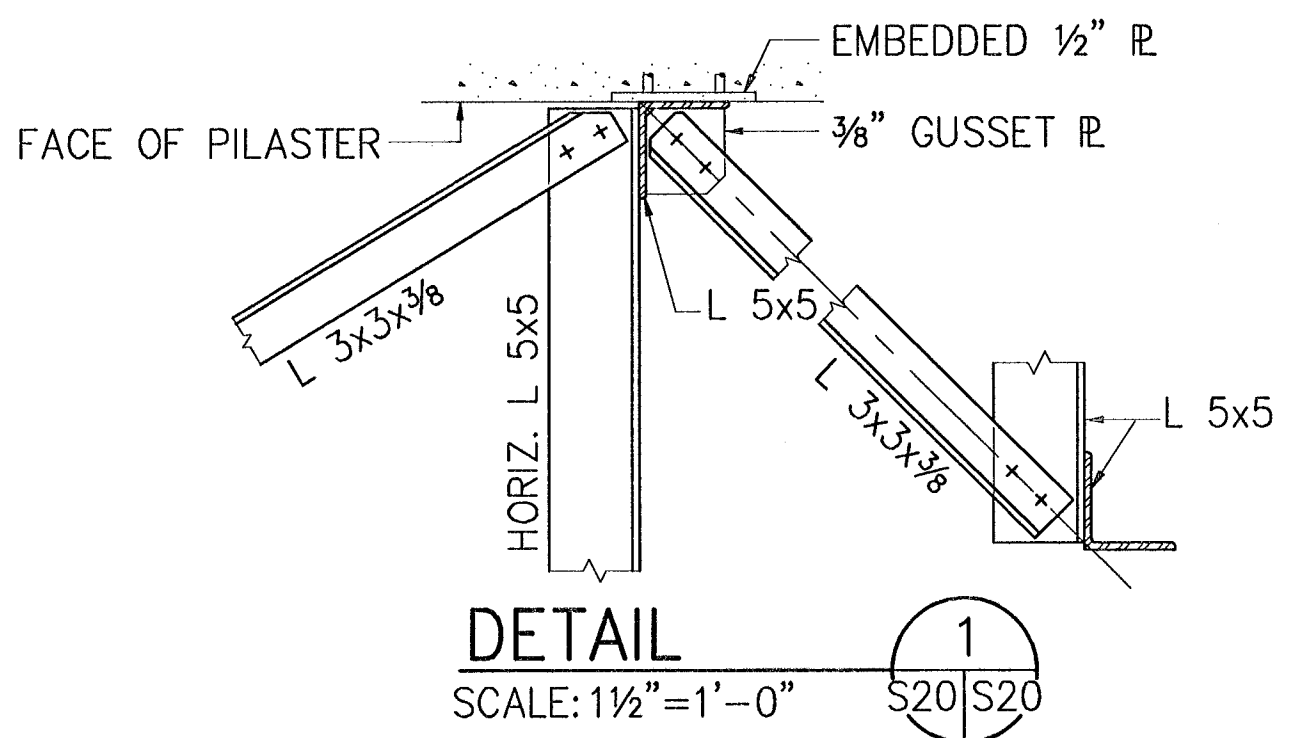


SECTION 3
SCALE: 1/8" = 1'-0"
PLAN - TRENCH COVERS

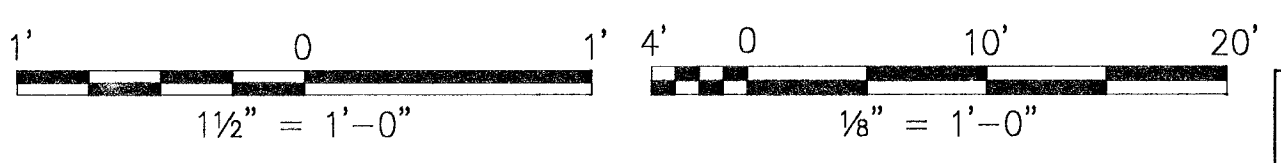
- NOTES:
1. FOR CANOPY SUPPORT FRAMES SEE DWG. S-21.
2. FOR DOOR RAIL SUPPORT BEAMS SEE DWG. S-22.
3. FOR TRENCH COVER AND ROLLER GUIDE SEE DWG. S-23.



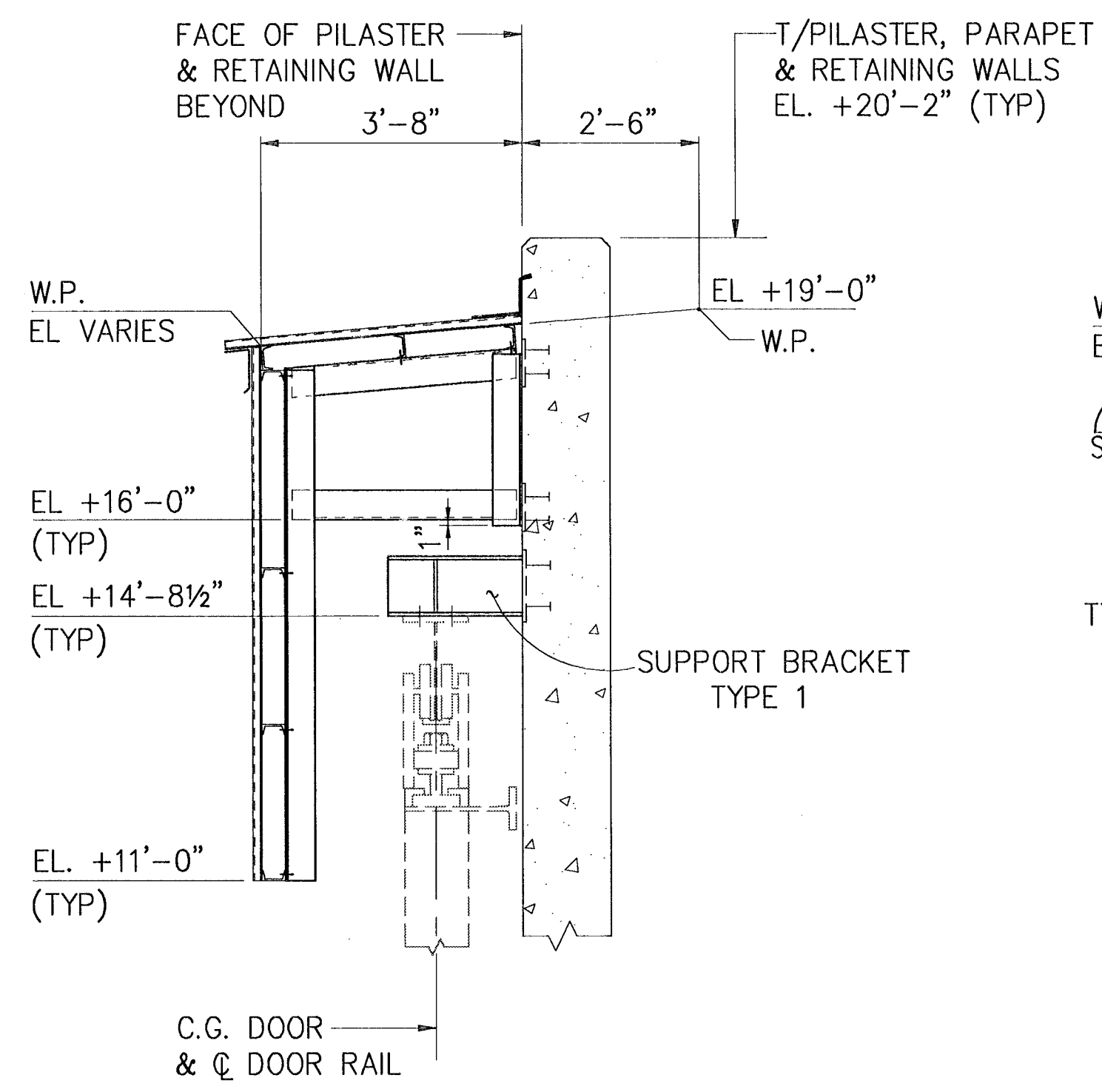
DETAIL 2
SCALE: 1 1/2" = 1'-0"



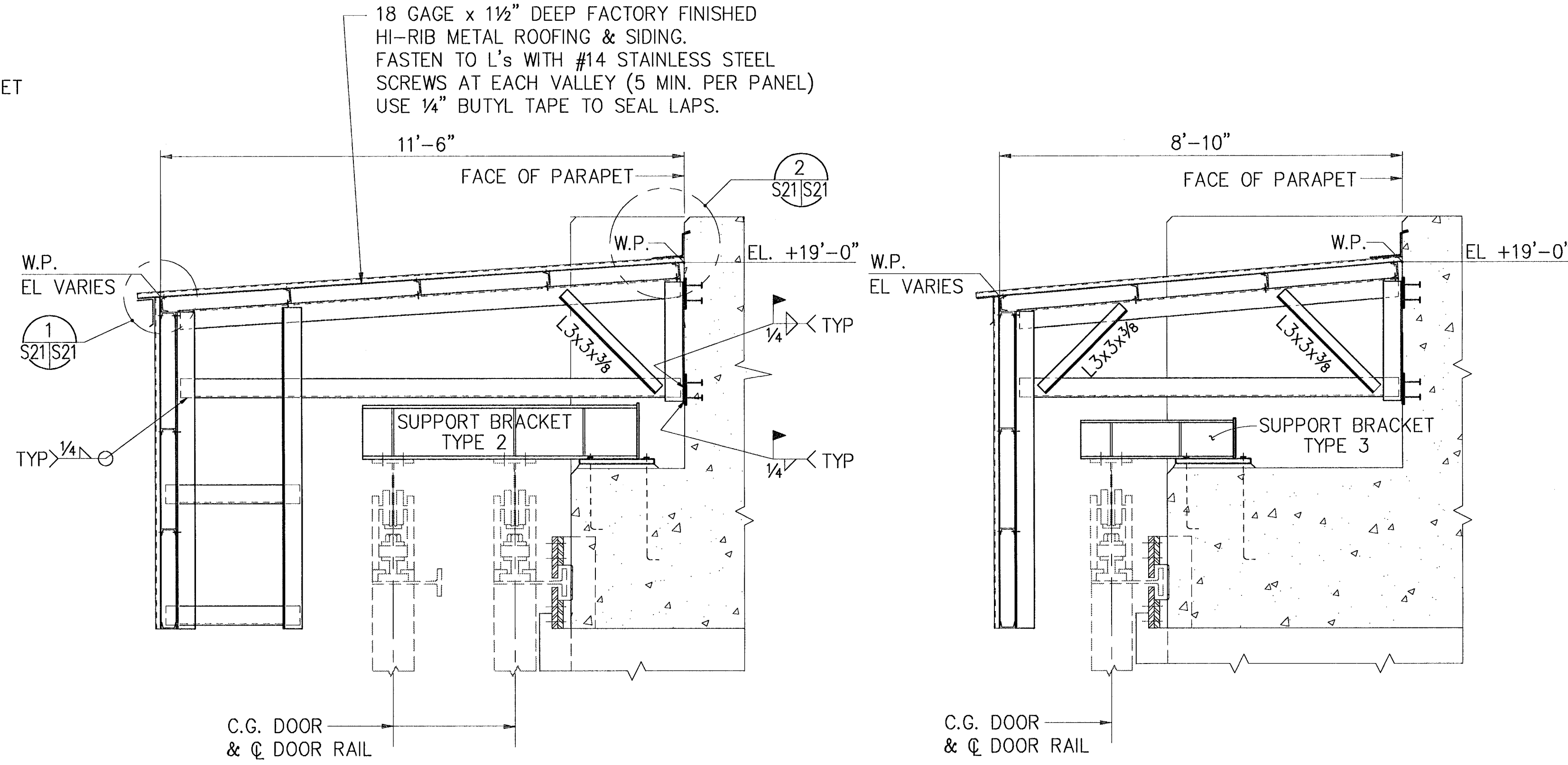
DETAIL 1
SCALE: 1 1/2" = 1'-0"



SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 36 MORTON ST., NEW YORK, NY 10014						
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND WASHINGTON, D.C. 20350						
STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' PLANS - CANOPY, RAIL SUPPORTS, TRENCH COVERS						
ENGINEER IN CHARGE <i>R. Brody</i>	DATE 27/5/97	BRANCH MANAGER <i>R. Brody</i>	CONTRACT NO.	6,448,574	SHEET 20	OF 34
CENTRAL MANAGER <i>R. Brody</i>	DATE	DIVISION DIRECTOR <i>R. Brody</i>	SCALE	AS NOTED	SPEC NO.	
FIRE PROTECTION ENGINEER			FOR COMMANDER NAVAL FACINCOM			

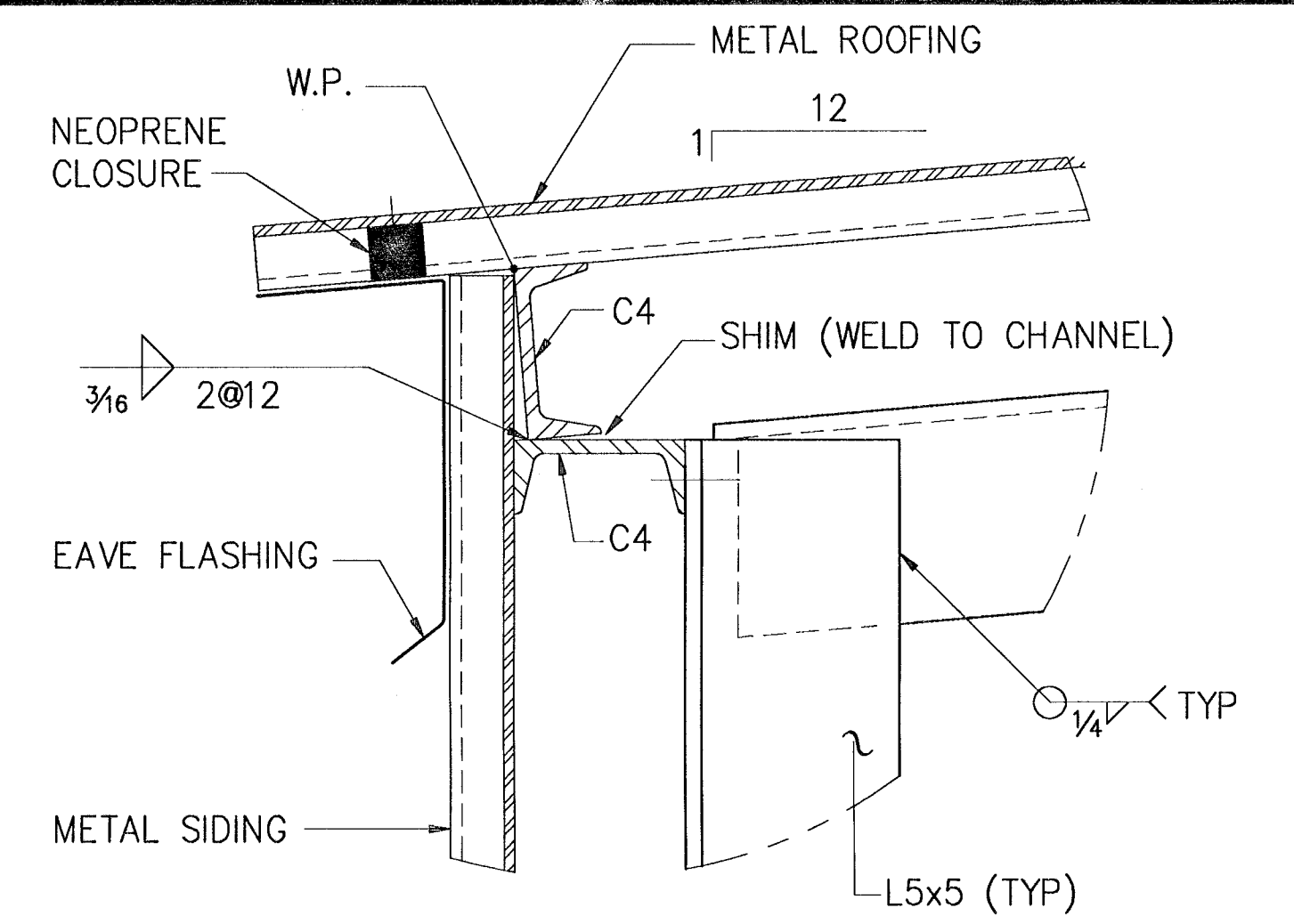


SECTION 1
SCALE: 1/2" = 1'-0"

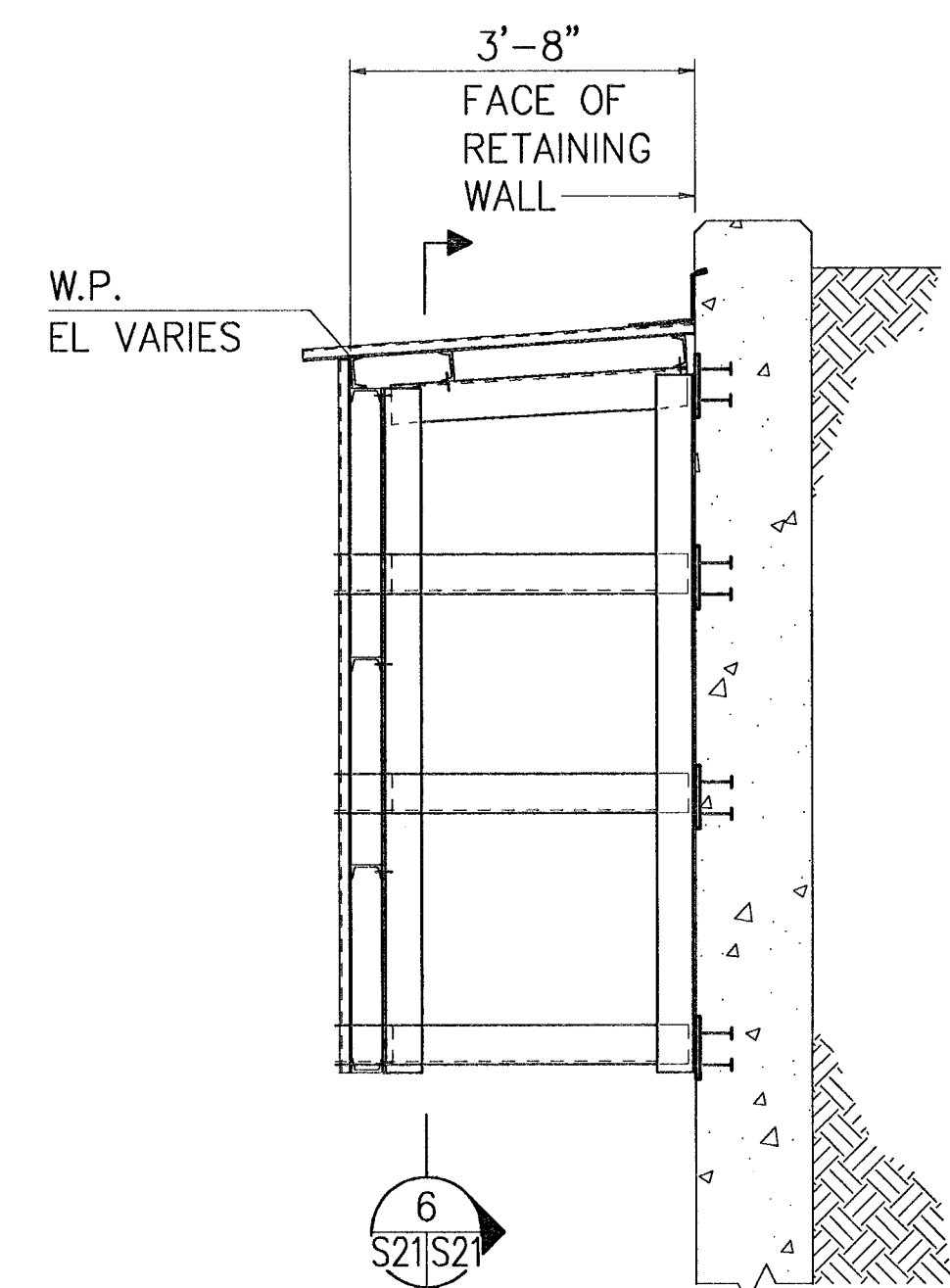


SECTION 2
SCALE: 1/2" = 1'-0"

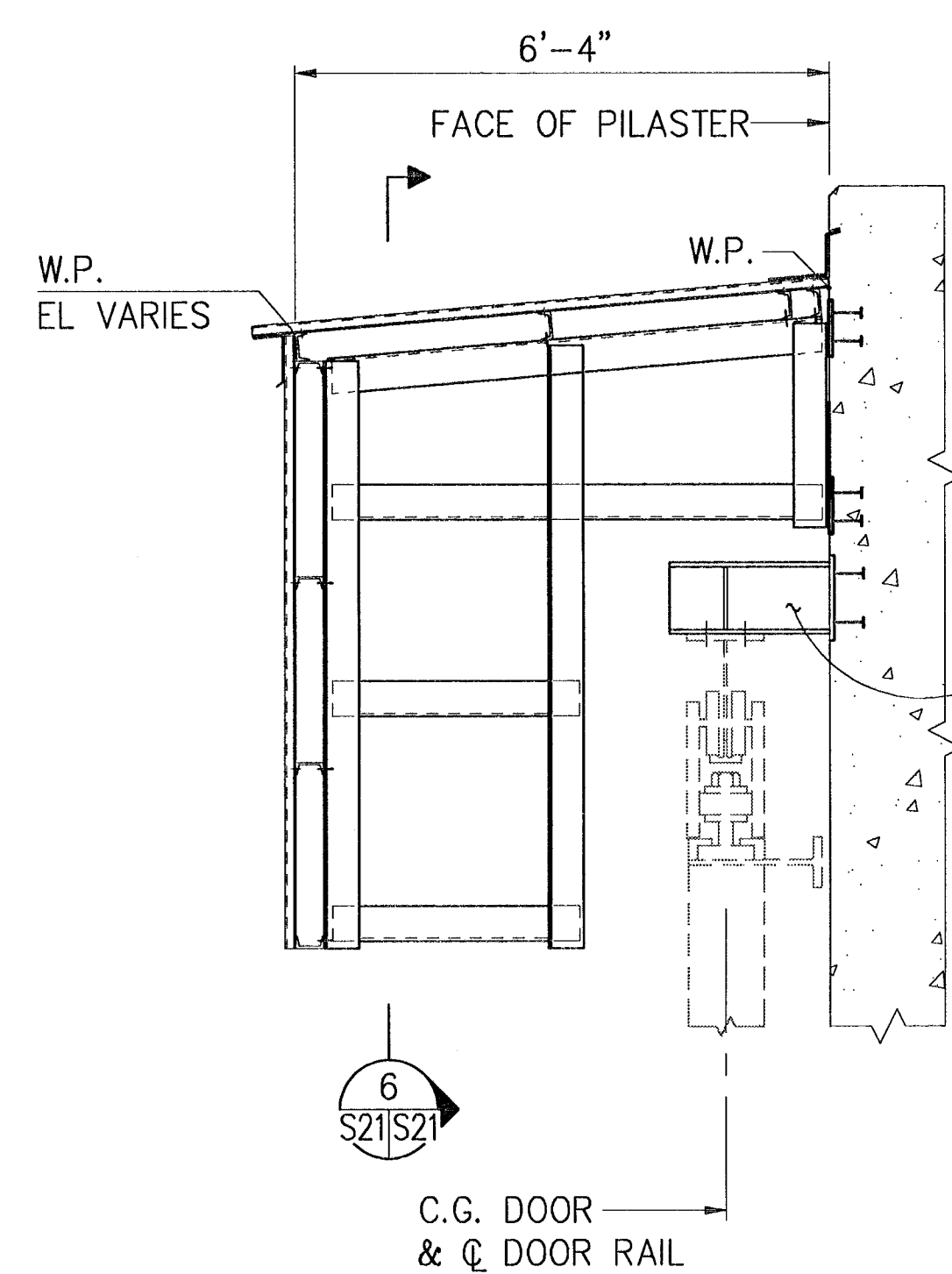
SECTION 3
SCALE: 1/2" = 1'-0"



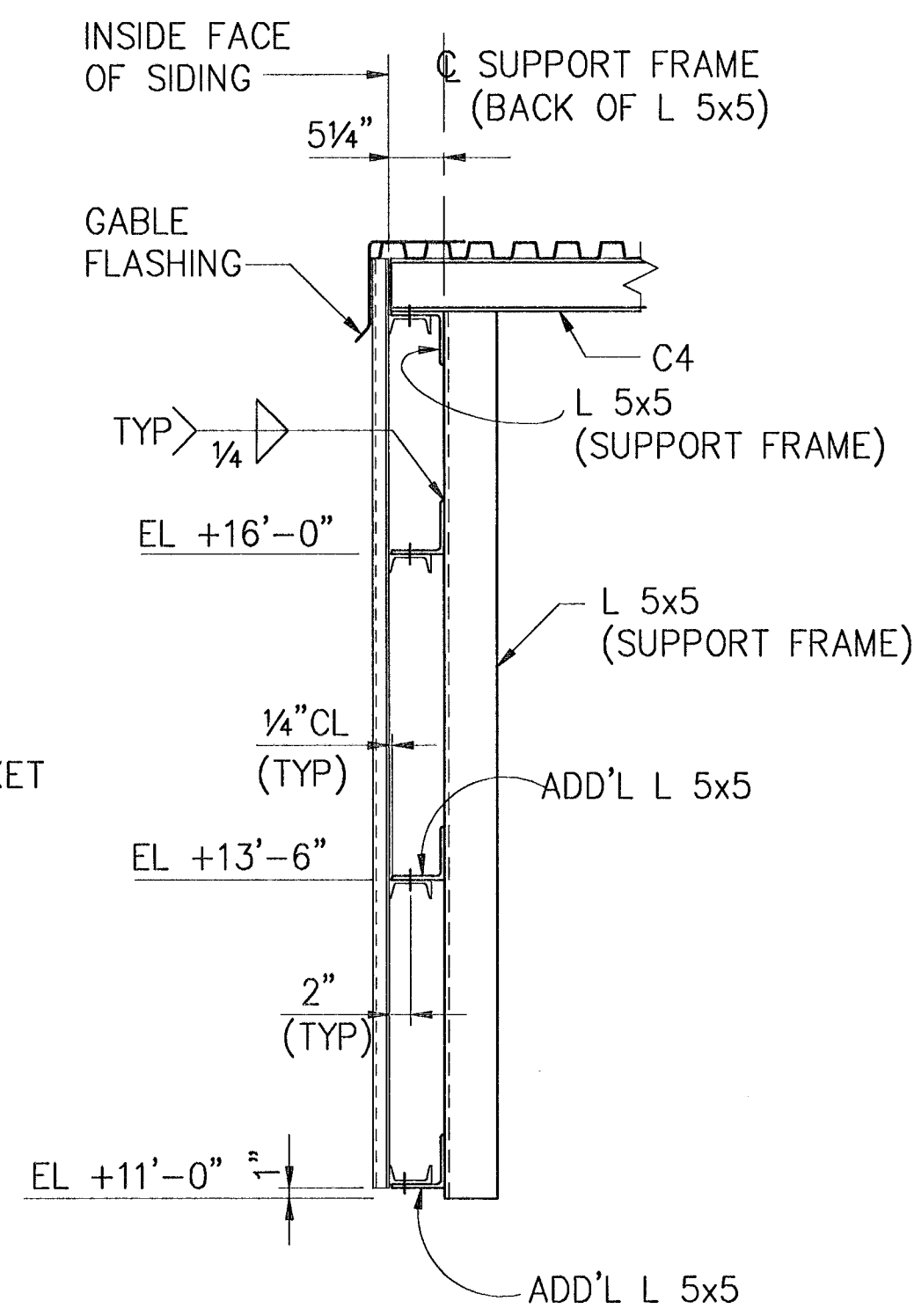
DETAIL 1
SCALE: 3" = 1'-0"



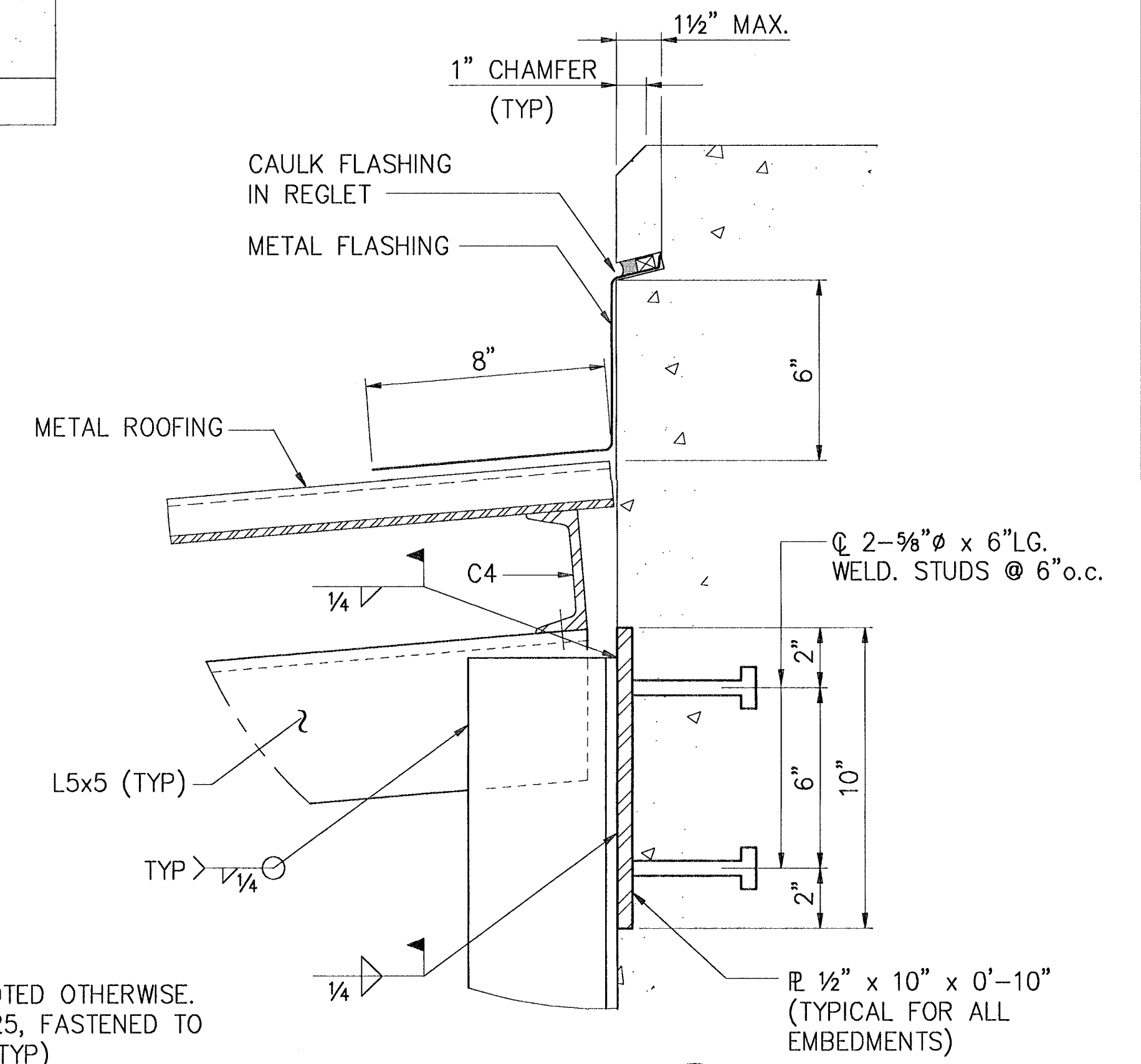
SECTION 4
SCALE: 1/2" = 1'-0"



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

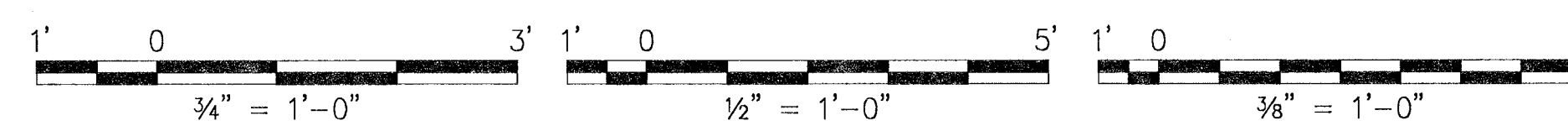


SECTION 6
SCALE: 3/4" = 1'-0"

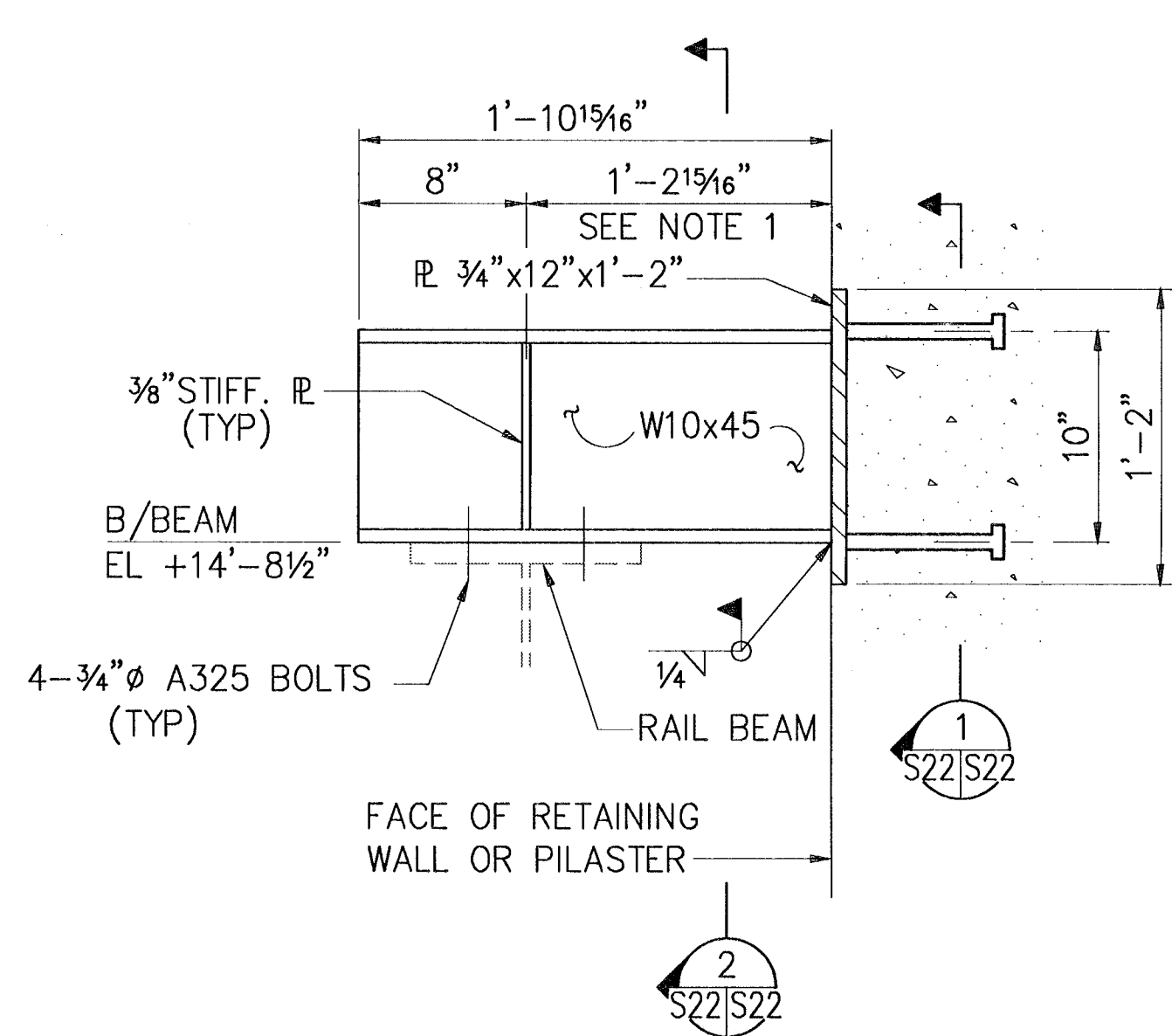


DETAIL 2
SCALE: 3" = 1'-0"

- NOTES:
1. ALL ANGLES TO BE 5x5x3/8 UNLESS NOTED OTHERWISE.
 2. ALL PURLINS AND GIRTS TO BE C4x7.25, FASTENED TO ANGLES WITH TWO 5/16" phi A325 BOLTS (TYP)
 3. FOR SUPPORT BRACKET DETAILS SEE DWG. S-22.

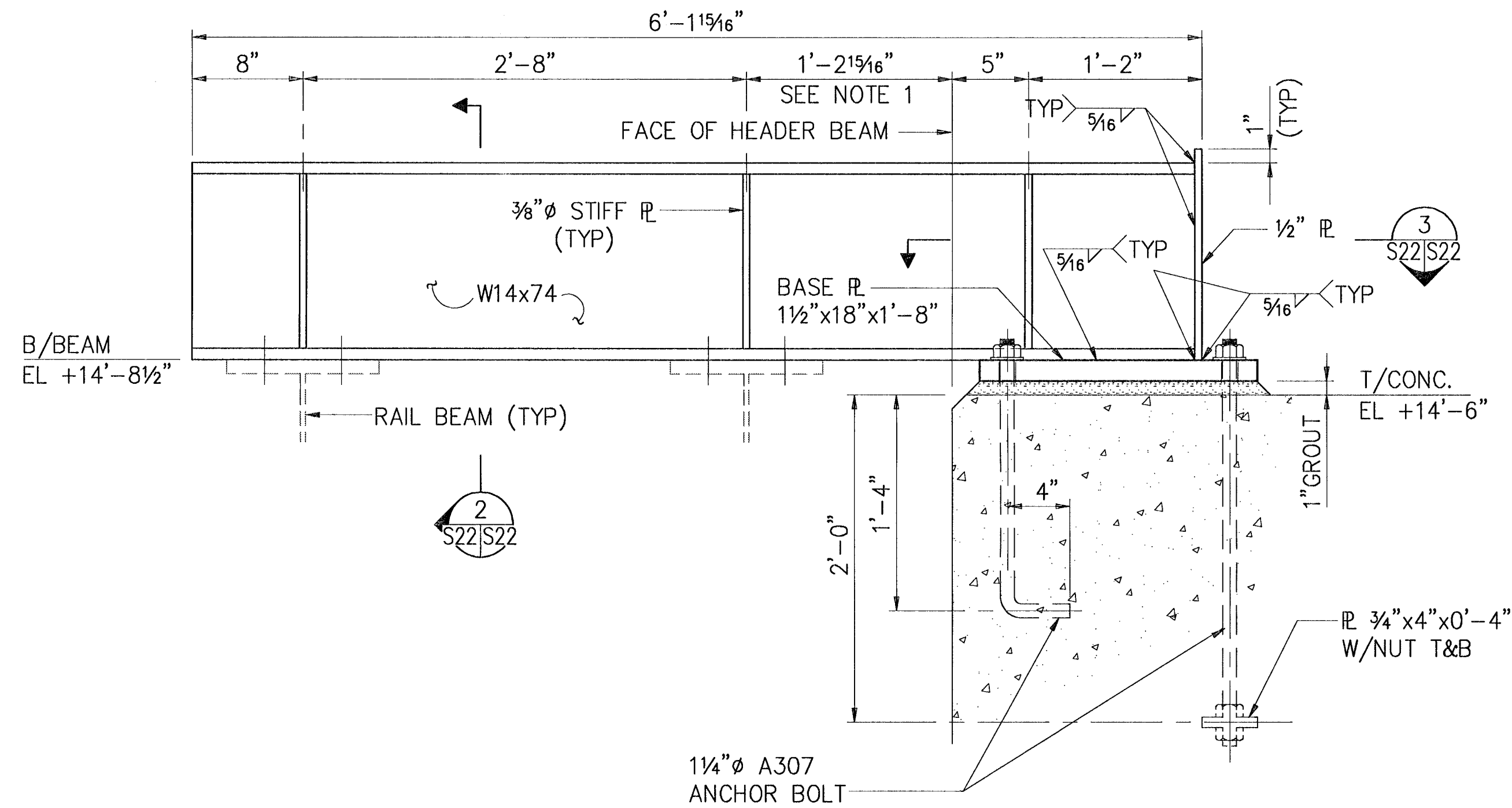


SYMBOL		DESCRIPTION		PREP BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014 DATE: 27/5/97						
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' CANOPY DETAILS						
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	SHEET 21 OF 34			
D	80091	6,448,575	S-21			
SCALE	AS NOTED	CONTRACT NO	SHEET 21 OF 34			
CATEGORY CODE		SPEC NO				

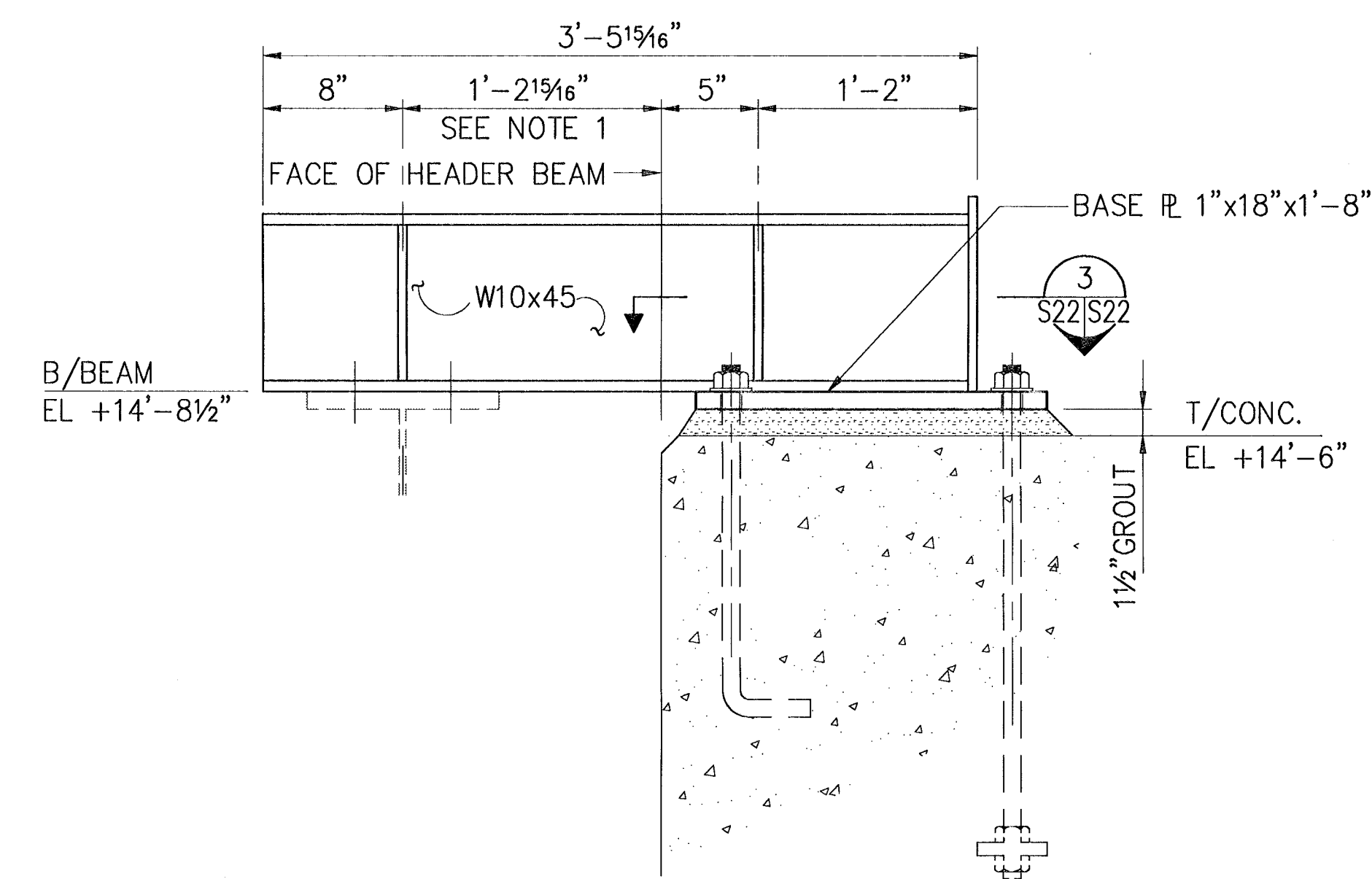


NOTE 1: LOCATION OF RAIL BEAM TO BE VERIFIED BY DOOR MANUF.

TYPE 1



TYPE 2

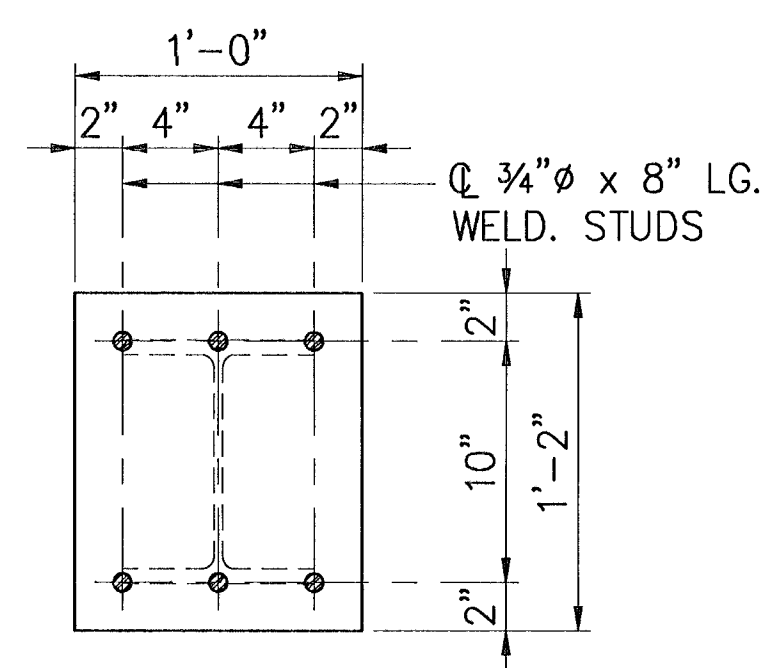


TYPE 3

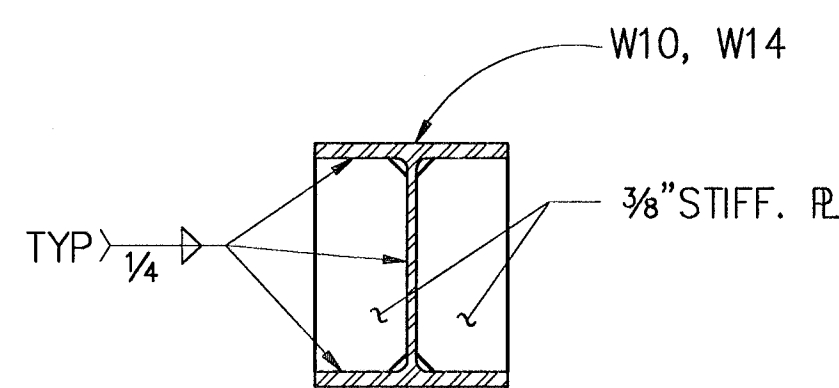
NOTE: FOR DETAILS NOT SHOWN SEE TYPE 2 SUPPORT BEAM.

DOOR RAIL SUPPORT BEAM DETAILS

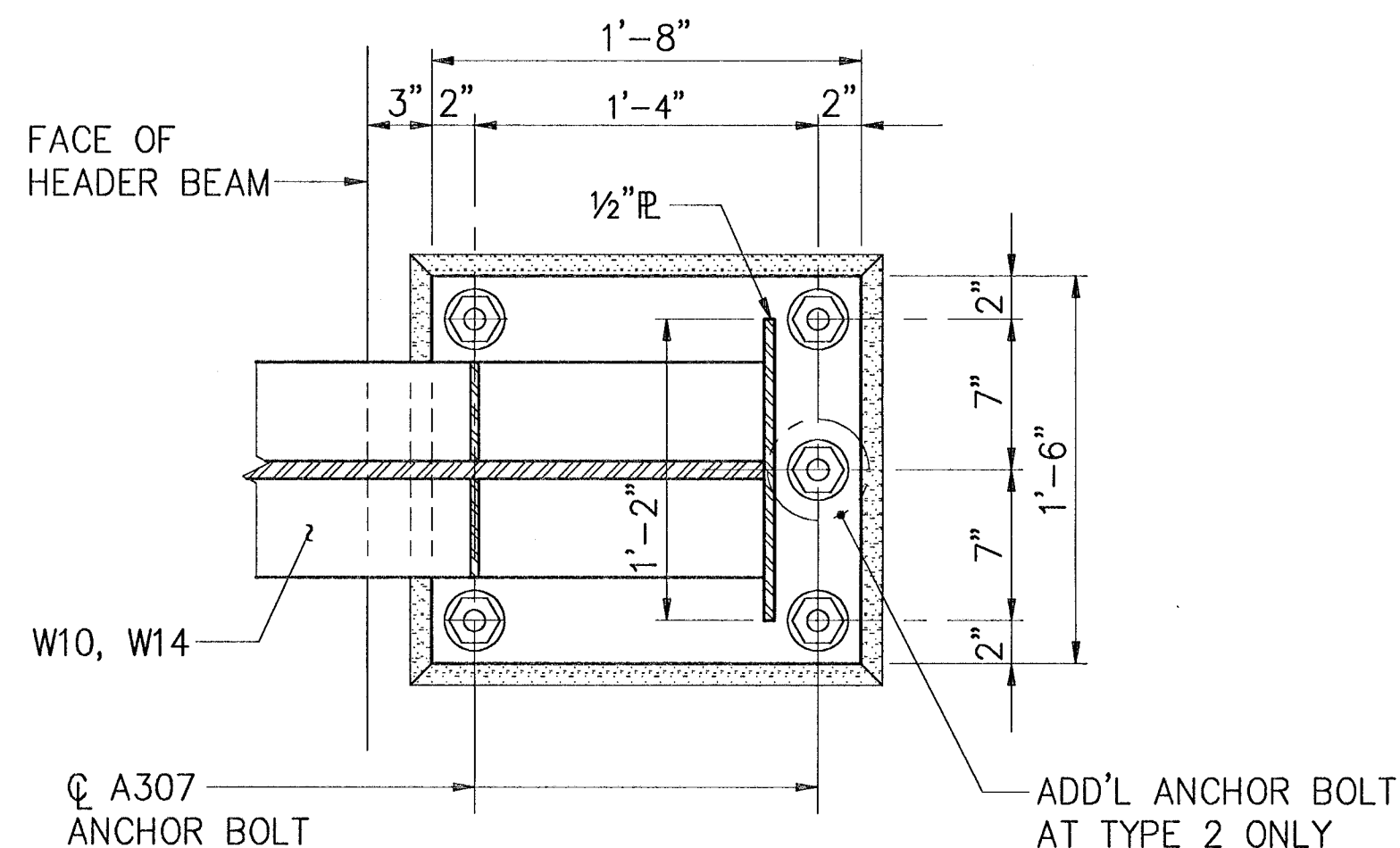
SCALE: 1 1/2" = 1'-0"



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

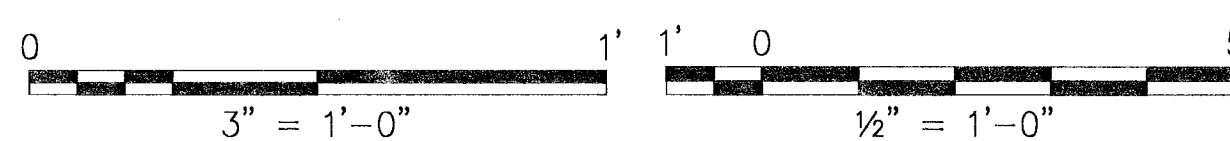


SECTION 2
SCALE: 1 1/2" = 1'-0"

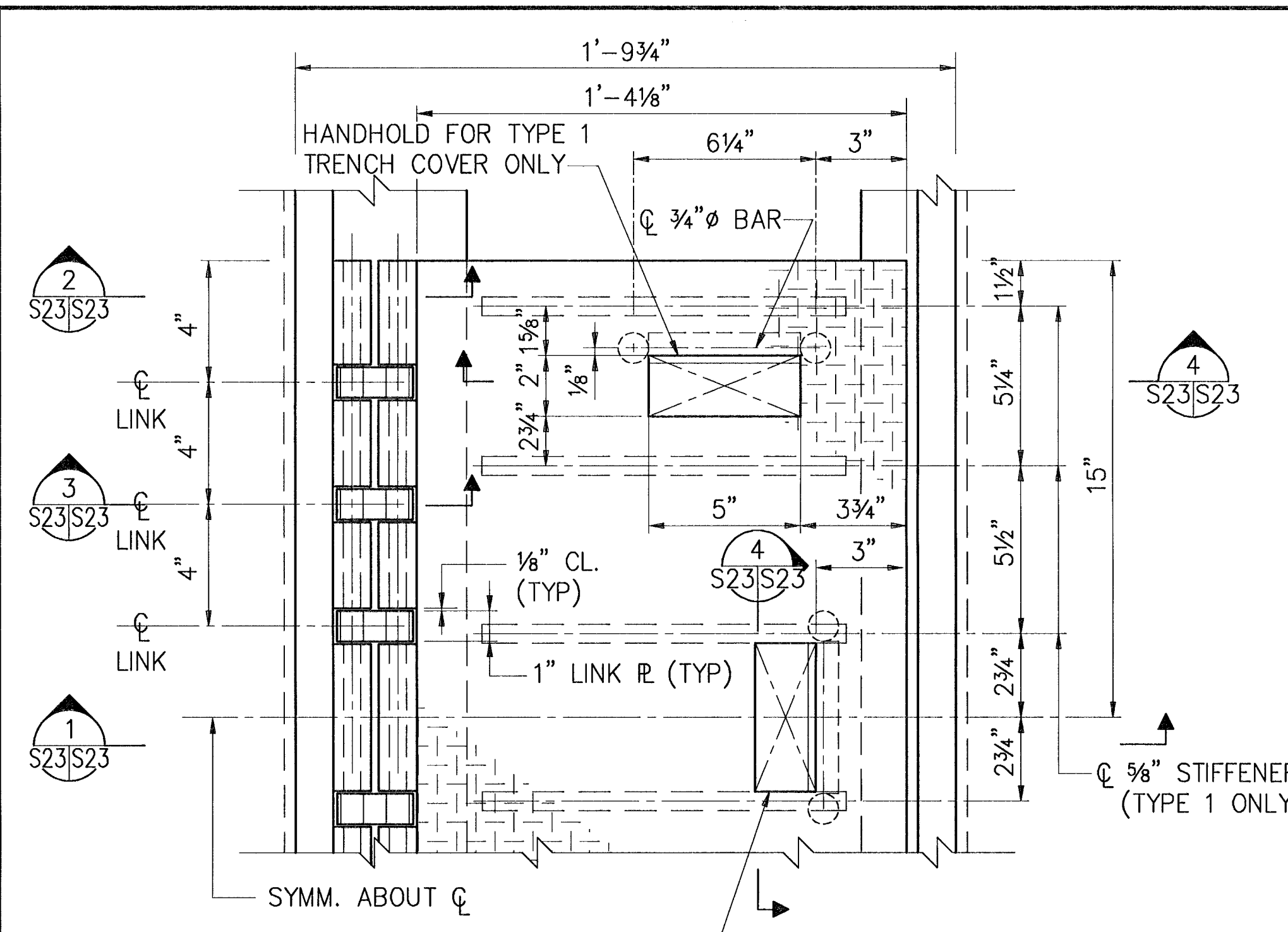


SECTION 3
SCALE: 1 1/2" = 1'-0"

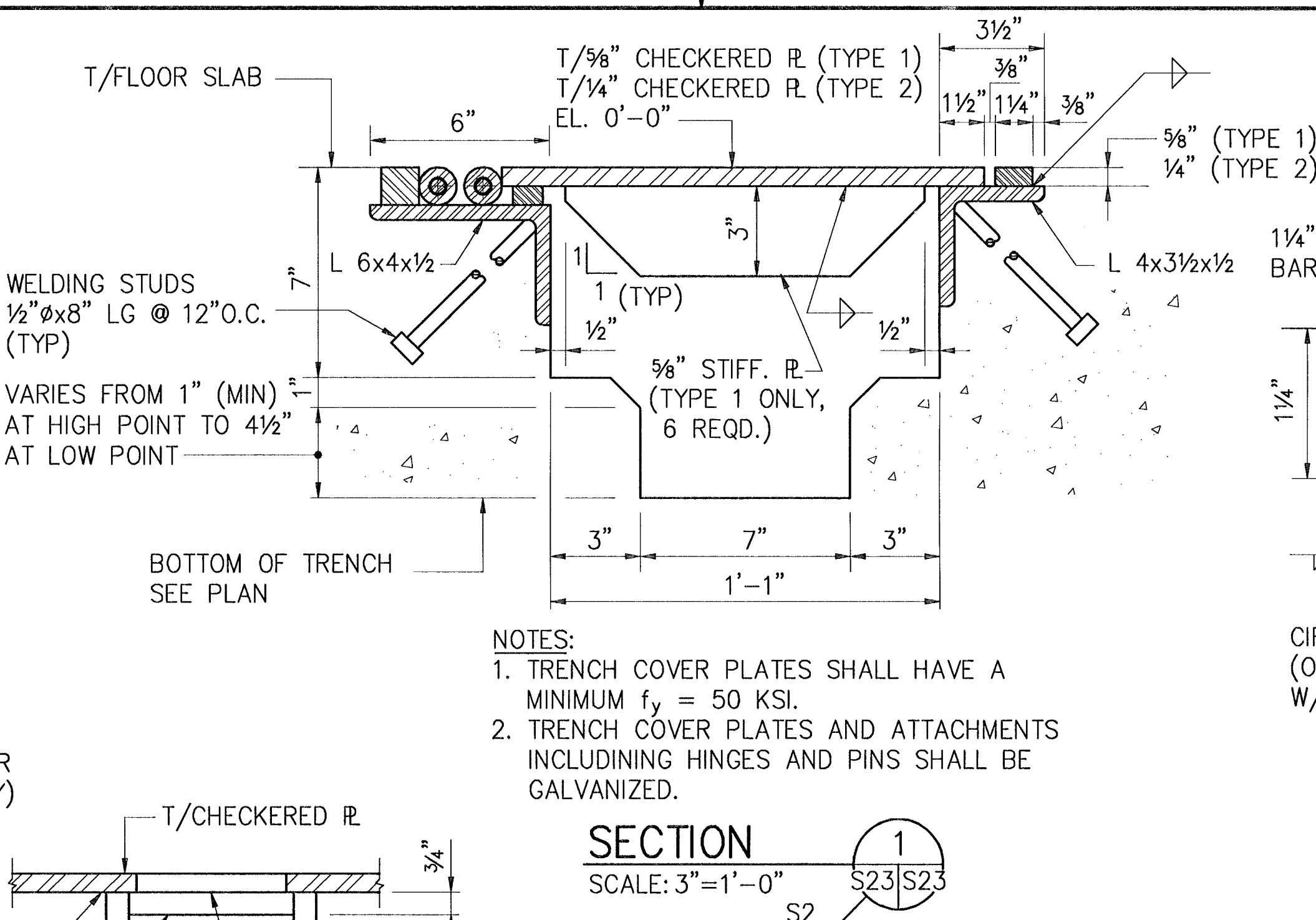
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY



SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 99 WASHINGTON ST., NEW YORK, NY 10014		DEPARTMENT OF THE NAVY		WASHINGTON, D.C. 20350		
PRINCIPAL ENGINEER <i>[Signature]</i>		DATE 27/5/97		NAVAL FACILITIES ENGINEERING COMMAND		
ENGINEER IN CHARGE <i>[Signature]</i>		BRANCH MANAGER <i>[Signature]</i>		STANDARD DRAWING		
CRITERIA MANAGER <i>[Signature]</i>		DIVISION DIRECTOR <i>[Signature]</i>		HSILS BOX MAGAZINE TYPE 'D'		
NAVFAC/NSCOM				RAIL SUPPORT BEAM DETAILS		
FIRE PROTECTION ENGINEER	DATE	SIZE	CODE GOVT NO	NAVFAC DRAWING NUMBER	S-22	
		D	80091	6,448,576		
APPROVED	DATE	SCALE	AS NOTED	CONTRACT NO	SHEET 22 OF 34	
SATISFACTORY TO		DATE		FOR COMMANDER NAVFACENCOM		

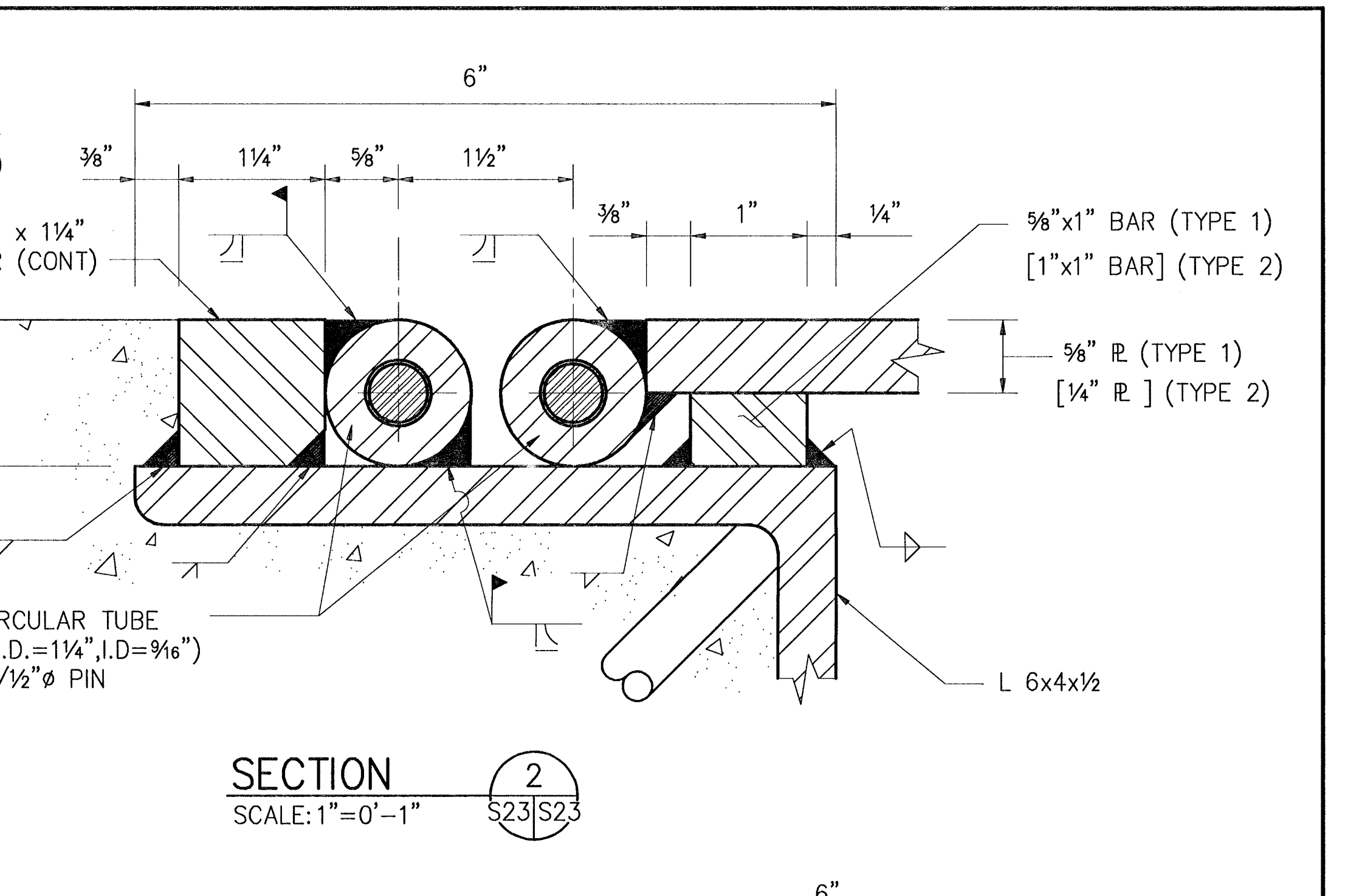


NOTE: ALL EDGES OF THE TRENCH COVER PLATE SHALL BE GROUND SMOOTH.
PARTIAL PLAN
 SCALE: 3"=1'-0"
 (DOOR TRENCH COVER PLATE TYPE 1 & TYPE 2)

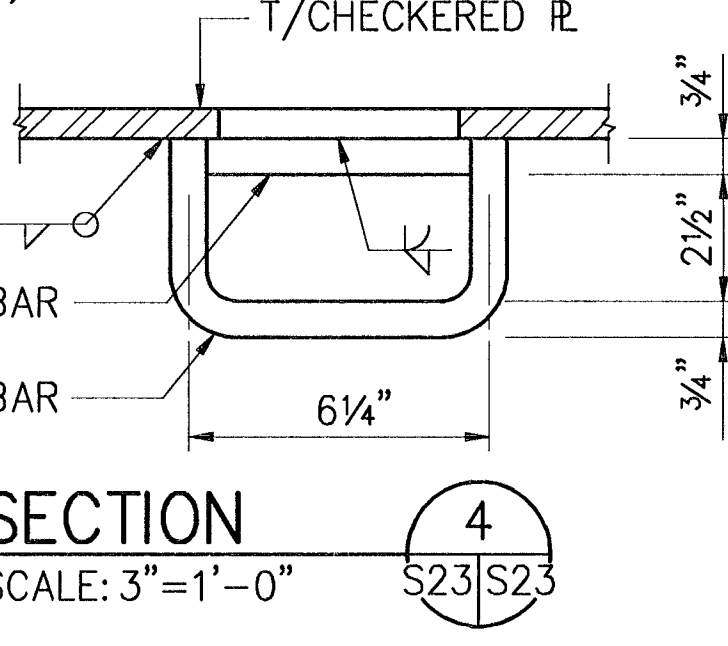


- NOTES:
 1. TRENCH COVER PLATES SHALL HAVE A MINIMUM $f_y = 50$ KSI.
 2. TRENCH COVER PLATES AND ATTACHMENTS INCLUDING HINGES AND PINS SHALL BE GALVANIZED.

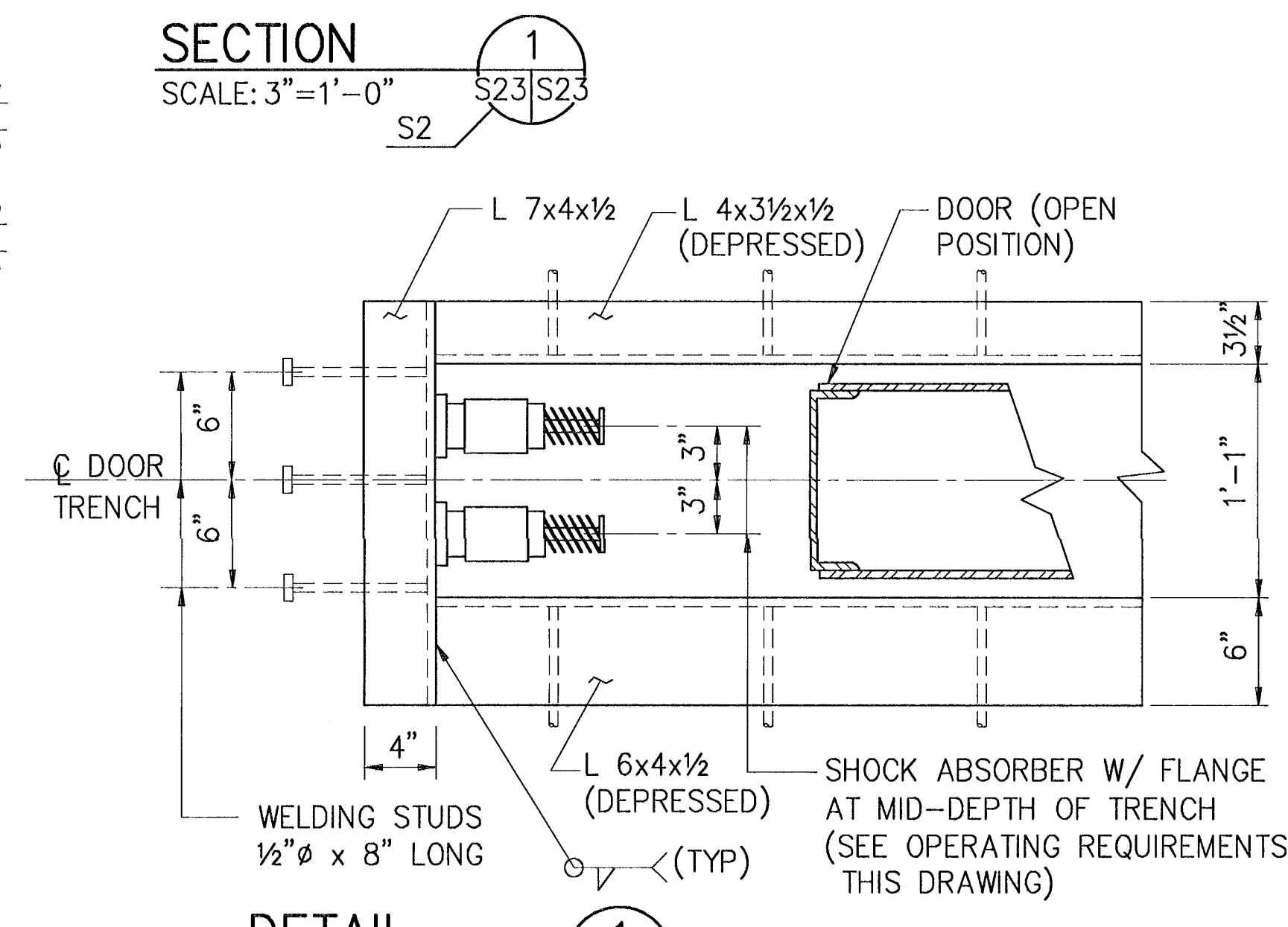
SECTION 1
 SCALE: 3"=1'-0"
 S23/S23
 S2



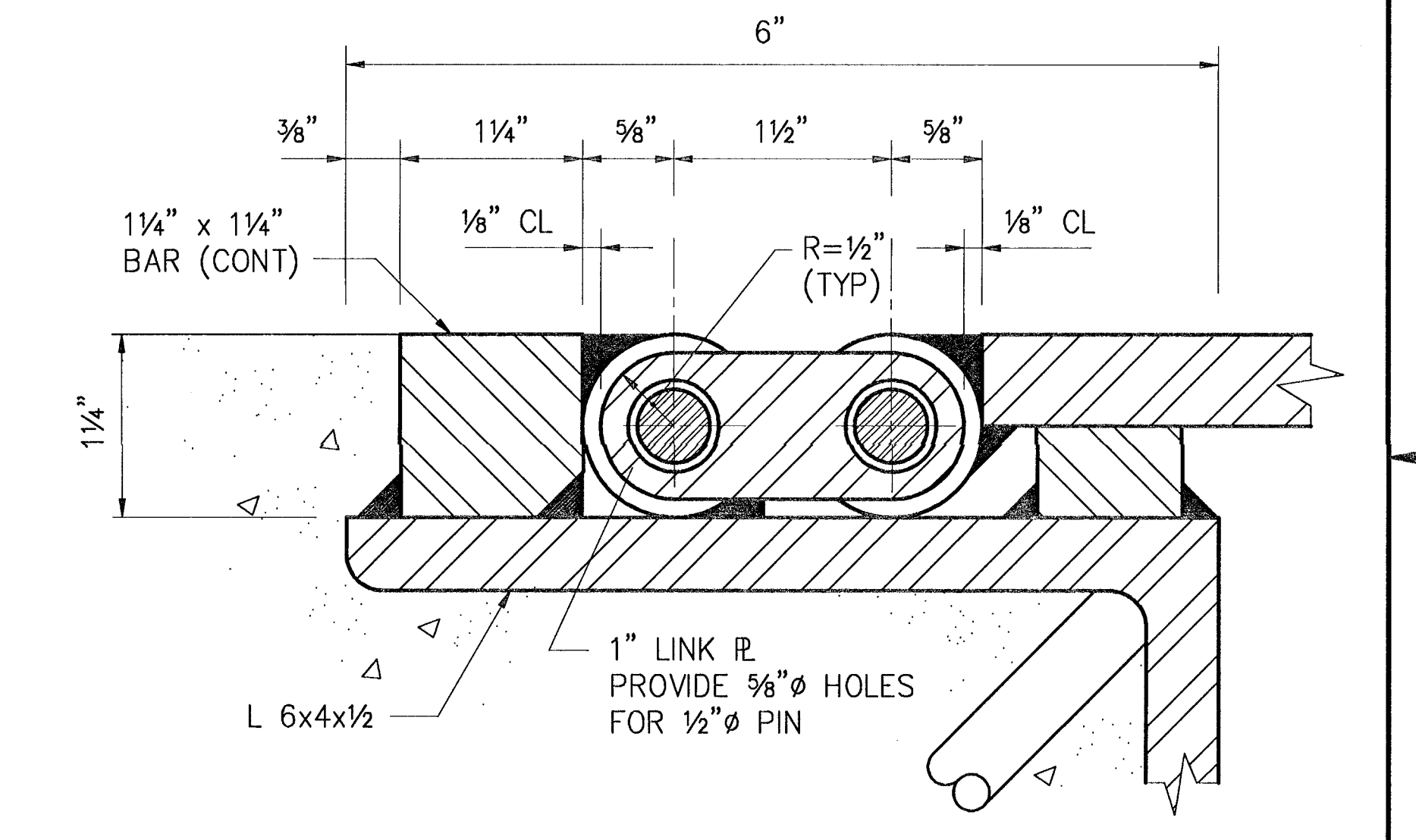
SECTION 2
 SCALE: 1"=0'-1"
 S23/S23



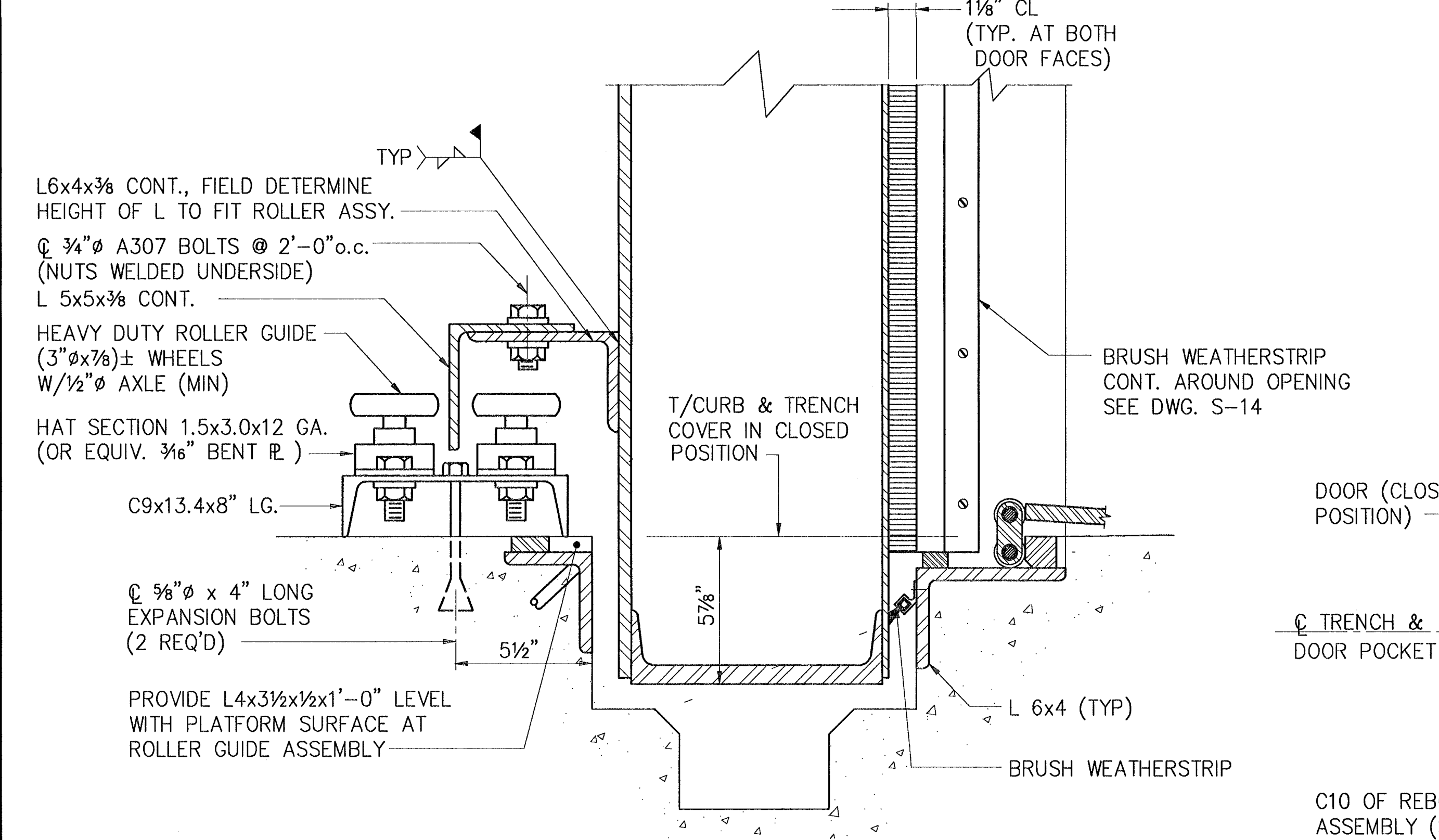
SECTION 4
 SCALE: 3"=1'-0"
 S23/S23



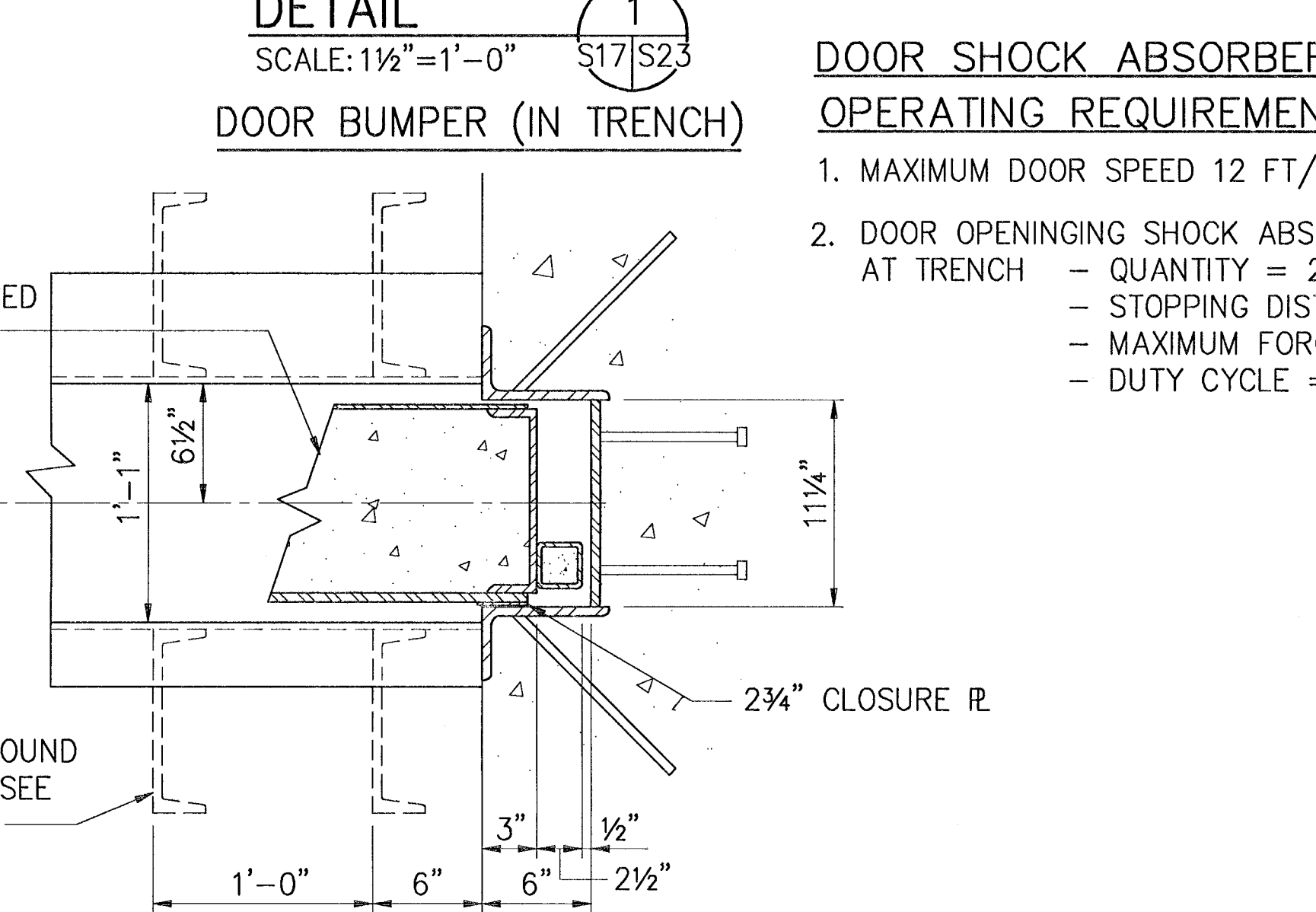
DETAIL 1
 SCALE: 1 1/2"=1'-0"
 S17/S23



- NOTE: FOR INFORMATION NOT SHOWN SEE SECTION 2
SECTION 3
 SCALE: 1"=0'-1"
 S23/S23



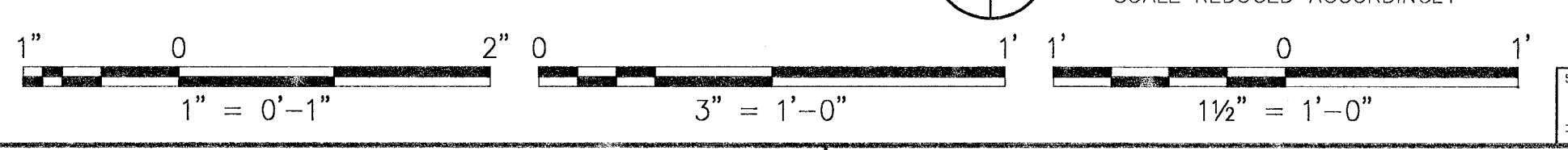
SECTION 5
 SCALE: 3"=1'-0"
 S17/S23
ROLLER GUIDE ASSEMBLY



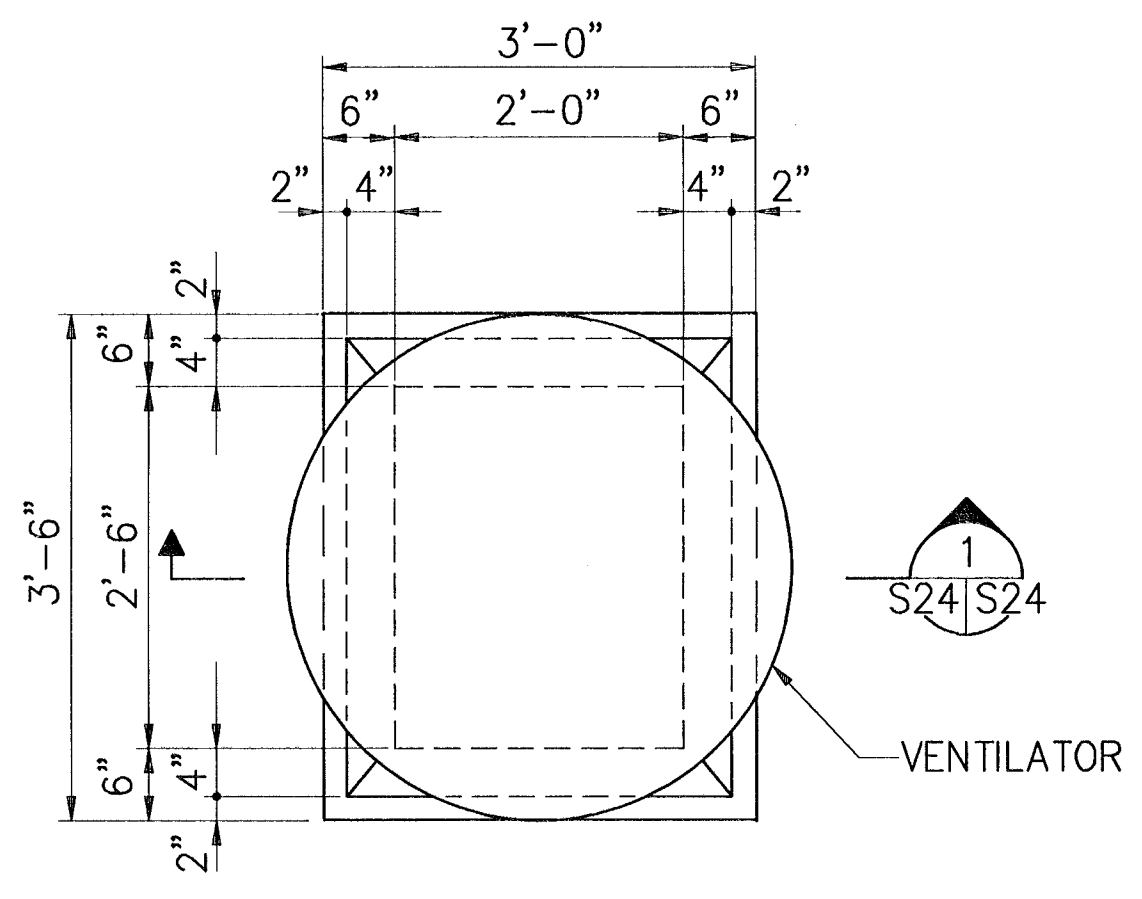
DETAIL 2
 SCALE: 1 1/2"=1'-0"
 S17/S23
 IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

DOOR SHOCK ABSORBERS-- OPERATING REQUIREMENTS

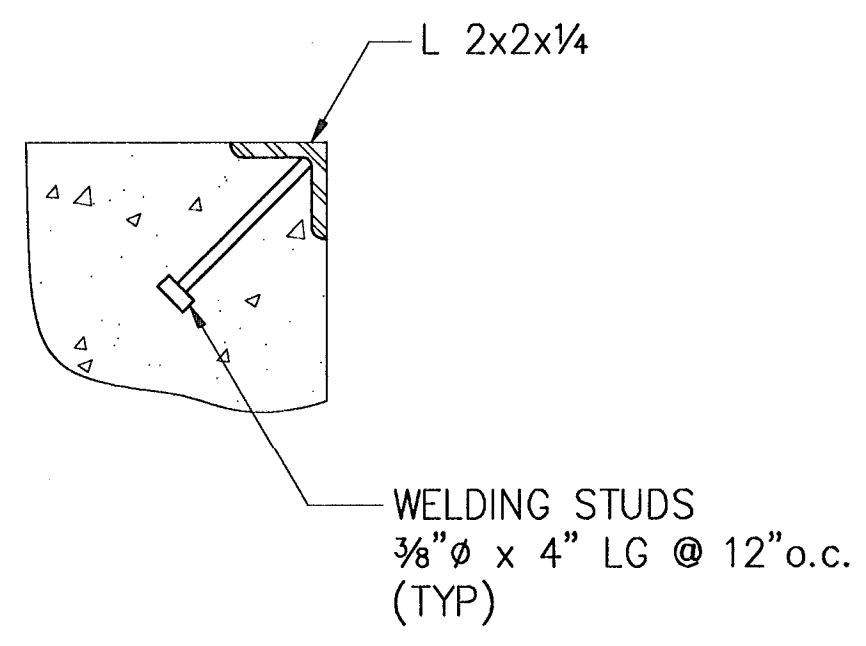
- MAXIMUM DOOR SPEED 12 FT/MIN OPENING/CLOSING.
- DOOR OPENING SHOCK ABSORBER: AT TRENCH
 - QUANTITY = 2
 - STOPPING DISTANCE = 2 INCHES
 - MAXIMUM FORCE PER SHOCK ABSORBER = 5,000 LBS
 - DUTY CYCLE = 10 DEFLECTIONS/HOUR



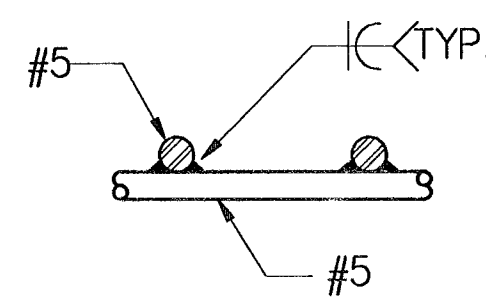
SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
<p>AMMANN & WHITNEY CONSULTING ENGINEERS 85 WEST 28TH ST., NEW YORK, NY 10014</p> <p>27/5/97 R. Brady (ENGINEER IN CHARGE) R. Brady (BRANCH MANAGER) R. Brady (DISTRICT MANAGER) A. Whitten (DIVISION DIRECTOR)</p>						
<p>REVISIONS</p>			<p>DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350</p> <p>NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING</p> <p>HSILS BOX MAGAZINE TYPE 'D' TRENCH COVERS, BUMPERS, DOOR GUIDE - DETAILS</p>			
SIZE	CODE IDENT NO	NAVIC DRAWING NUMBER	SHEET 23 OF 34		S-23	
D	80091	6,448,577				
SCALE	AS NOTED	CONTRACT NO				
CATEGORY CODE		SPEC. NO				



DETAIL 1
SCALE: 3/4" = 1'-0"
S24|S24



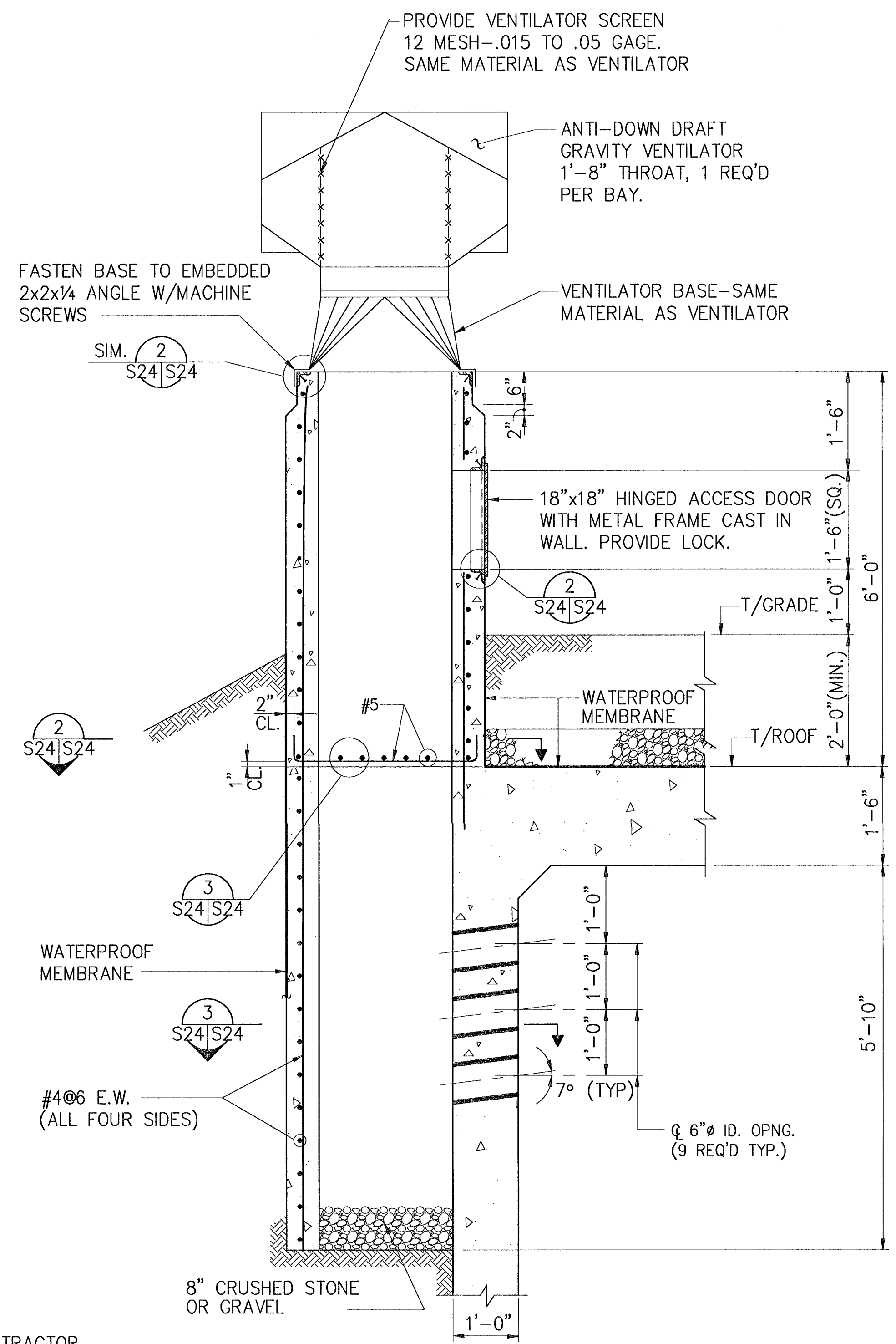
DETAIL 2
SCALE: 3" = 1'-0"
S24|S24



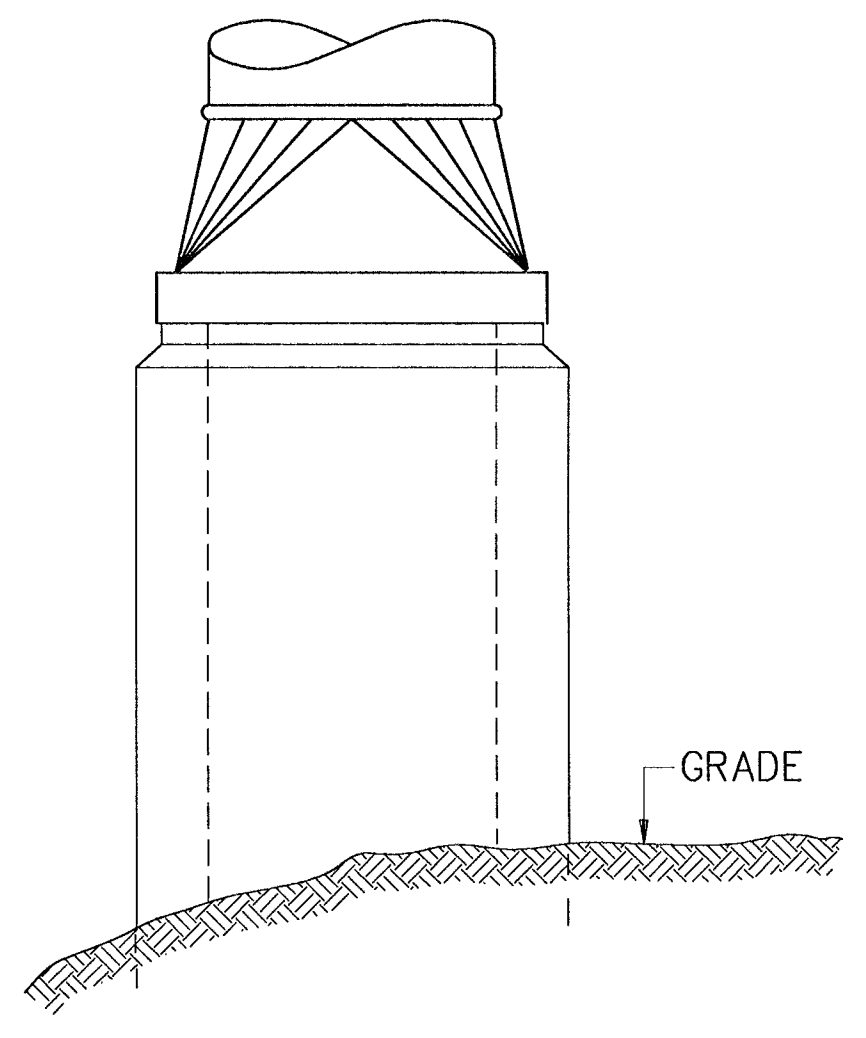
DETAIL 3
N.T.S.
S24|S24

NOTES:

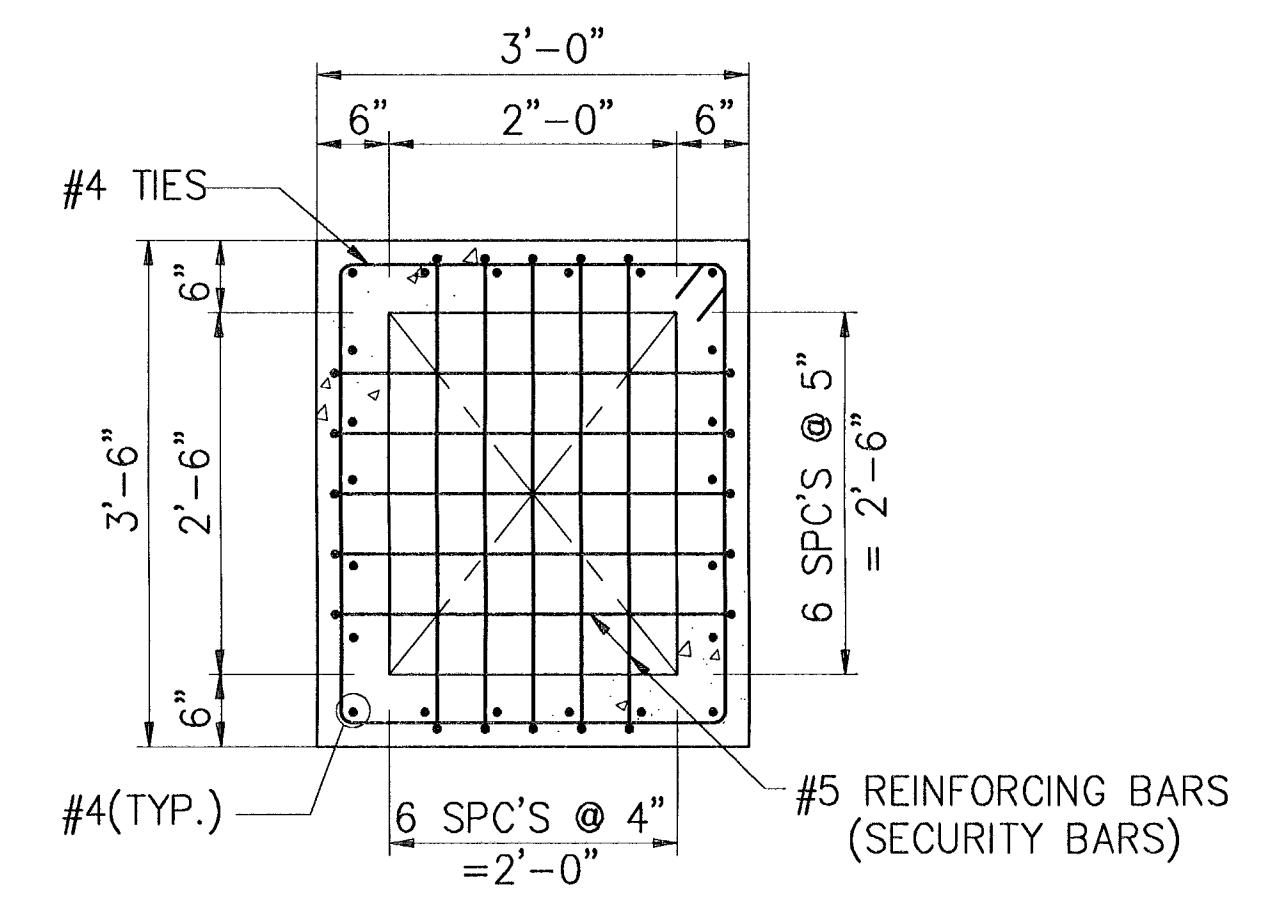
1. VENTILATOR SHALL BE DESIGNED BY THE CONTRACTOR FOR A SUSTAINED WIND SPEED OF 132 M.P.H.
2. REFER TO DRAWING E-5 FOR LIGHTNING ROD LOCATION ON VENTILATOR.
3. ALL MOVING PARTS SHALL BE NON-SPARKING TYPE.
4. GRAVITY VENTILATOR SHALL BE INTRINSICALLY SAFE.



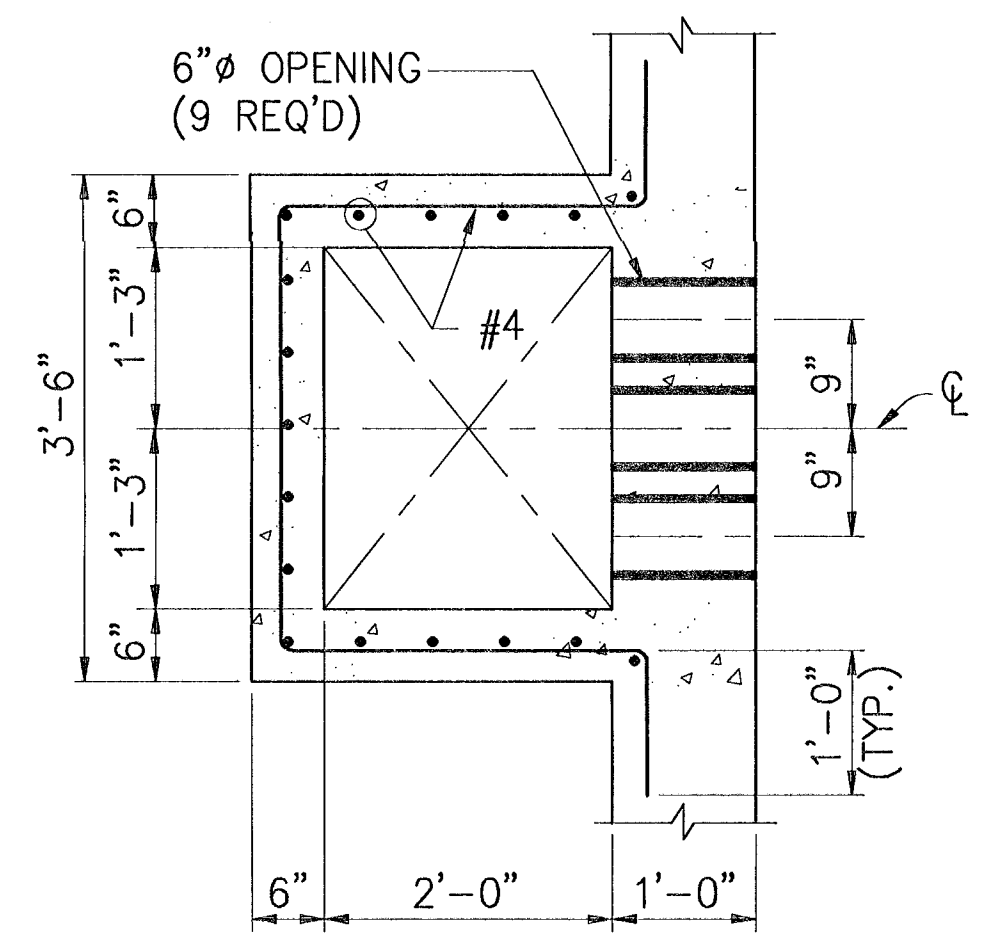
SECTION 1
SCALE: 3/4" = 1'-0"
S24|S24
DETAILS OF VENTILATOR SHAFT



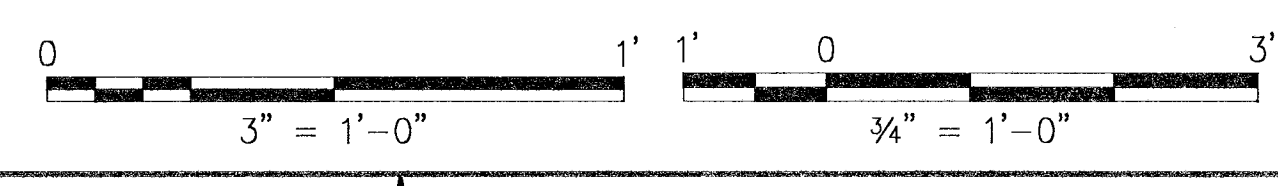
ELEVATION 1
SCALE: 3/4" = 1'-0"
S24|S24



SECTION 2
SCALE: 3/4" = 1'-0"
S24|S24

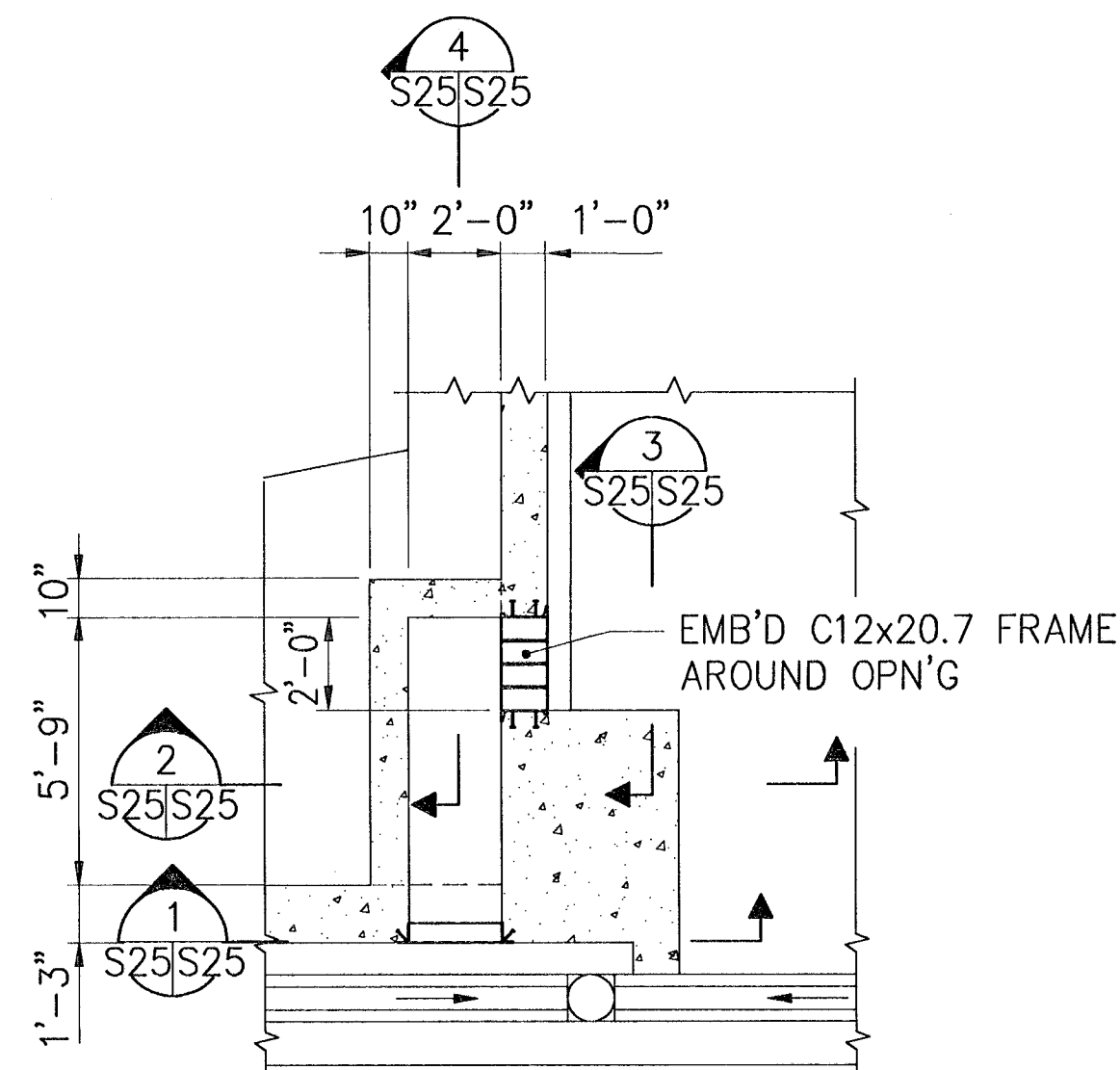


SECTION 3
SCALE: 3/4" = 1'-0"
S24|S24



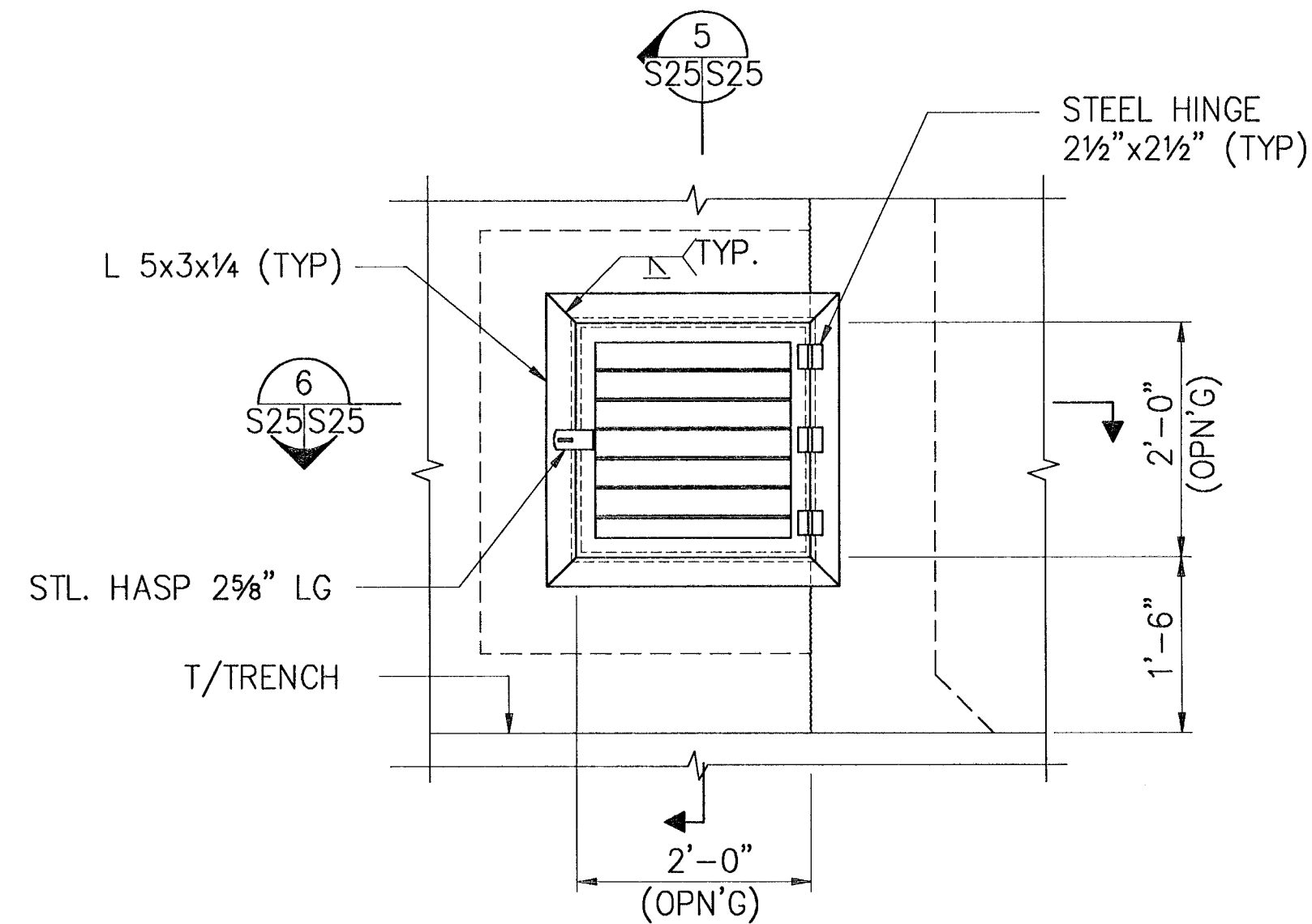
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 BOSTON ST., NEW YORK, NY 10014 DATE: 27/5/97 PRINCIPAL ENGINEER: Ron Brody ENGINEER IN CHARGE: R. Brody CRITERIA MANAGER: E. Brady DIVISION DIRECTOR: S. Mayhew NAVFACENSGOM						
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' VENTILATOR DETAILS				WASHINGTON, D.C. 20350 6,448,578 S-24		
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	CONTRACT NO		SHEET 24 OF 34	
D	80091	6,448,578	AS NOTED		SPEC NO	
SCALE	CATEGORY CODE		DATE		FOR COMMANDER NAVFACENSGOM	

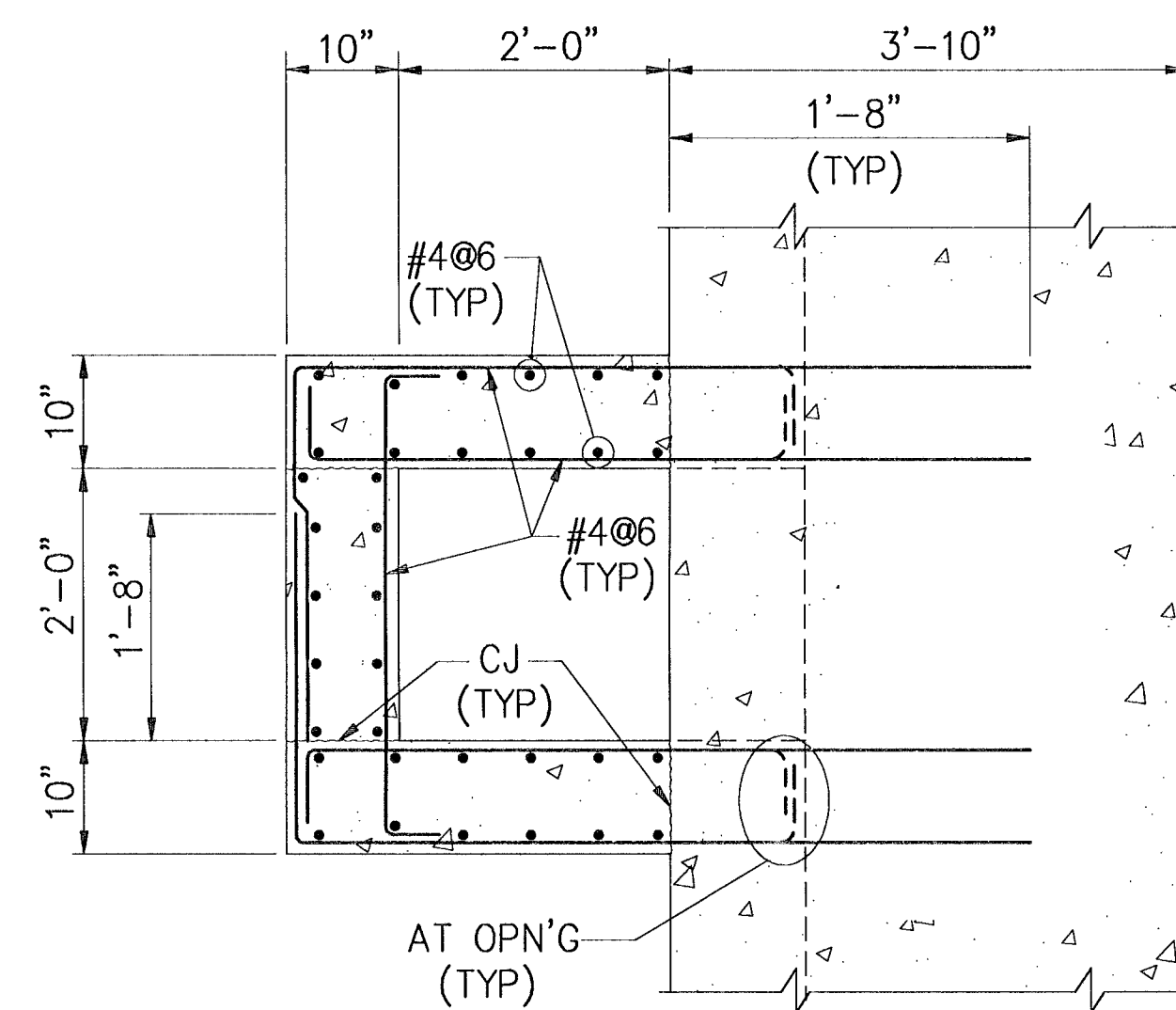


DETAIL 2
SCALE: 1/4" = 1'-0"

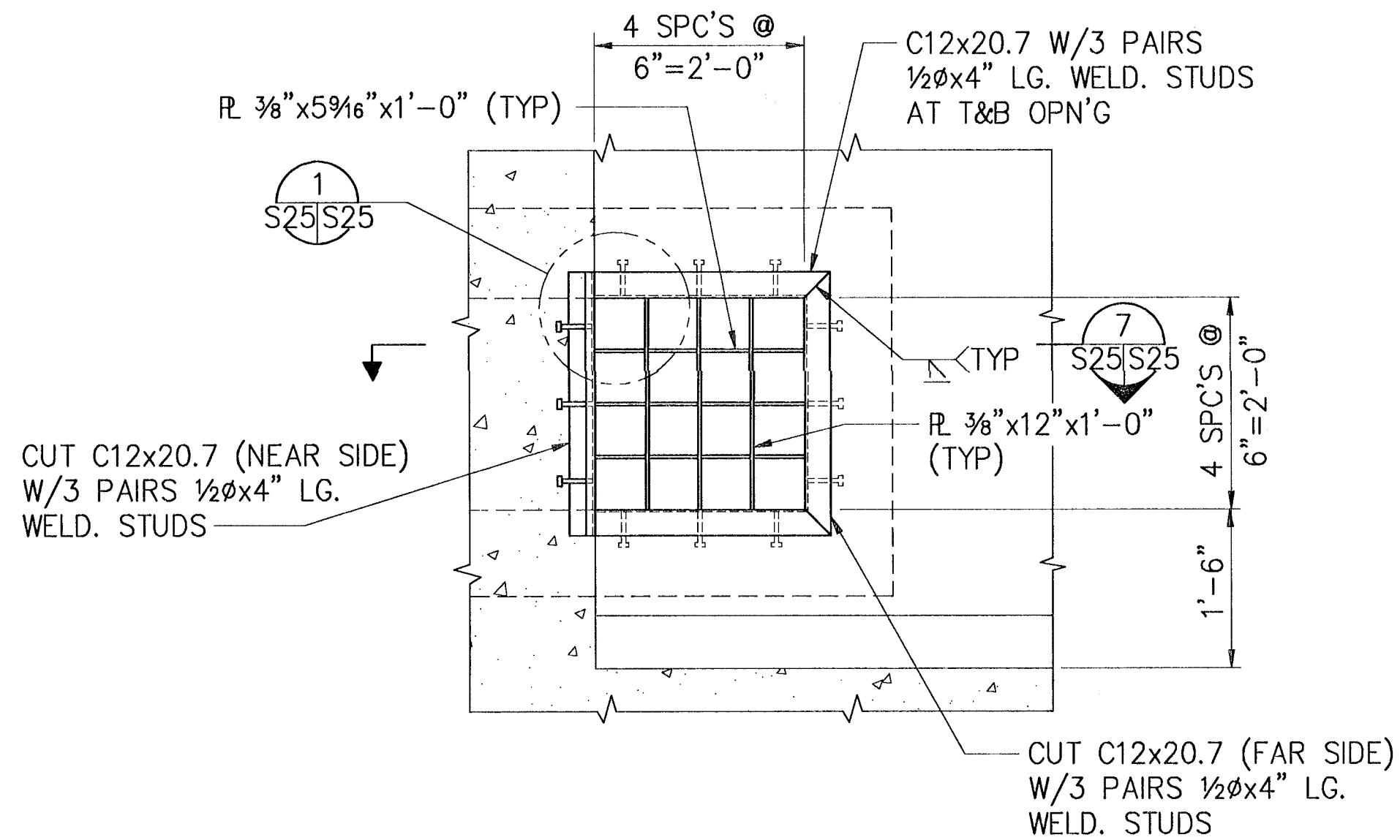
DETAIL OF AIR INTAKE DUCT



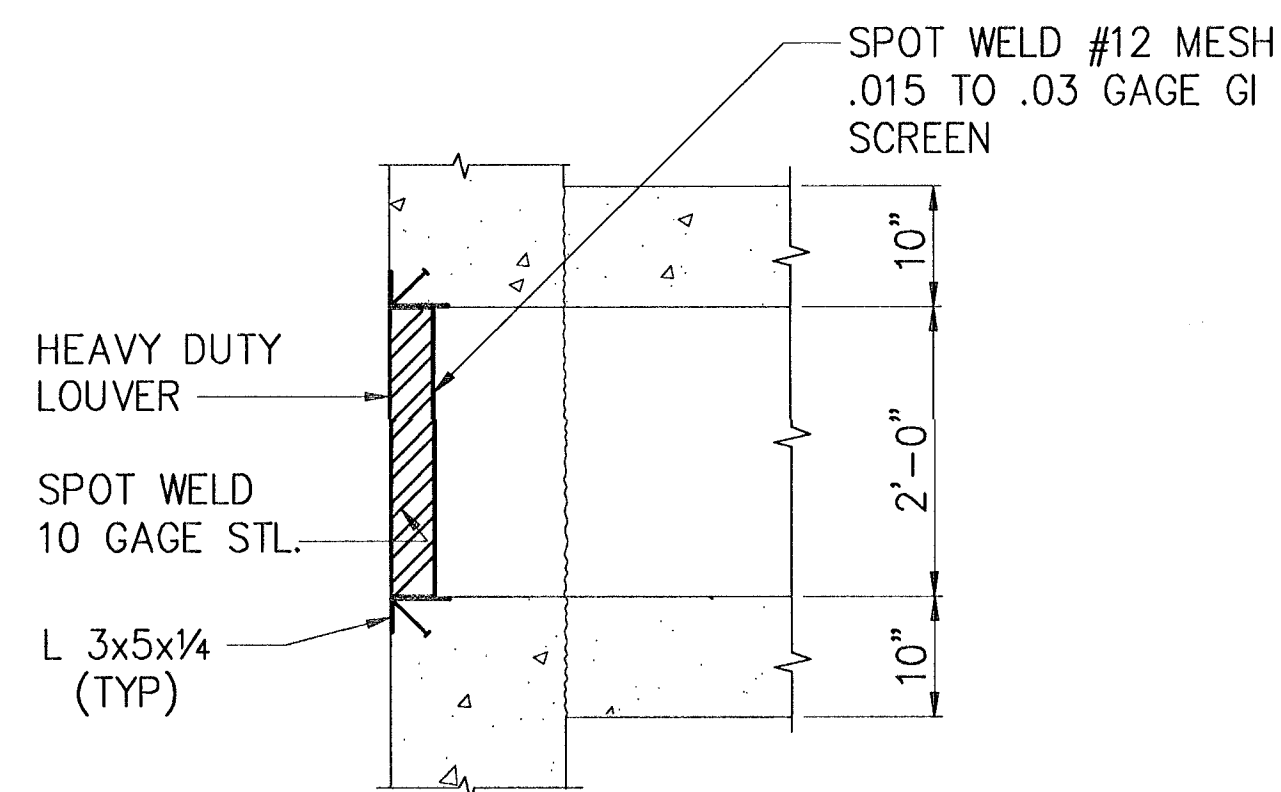
SECTION 1
SCALE: 3/4" = 1'-0"



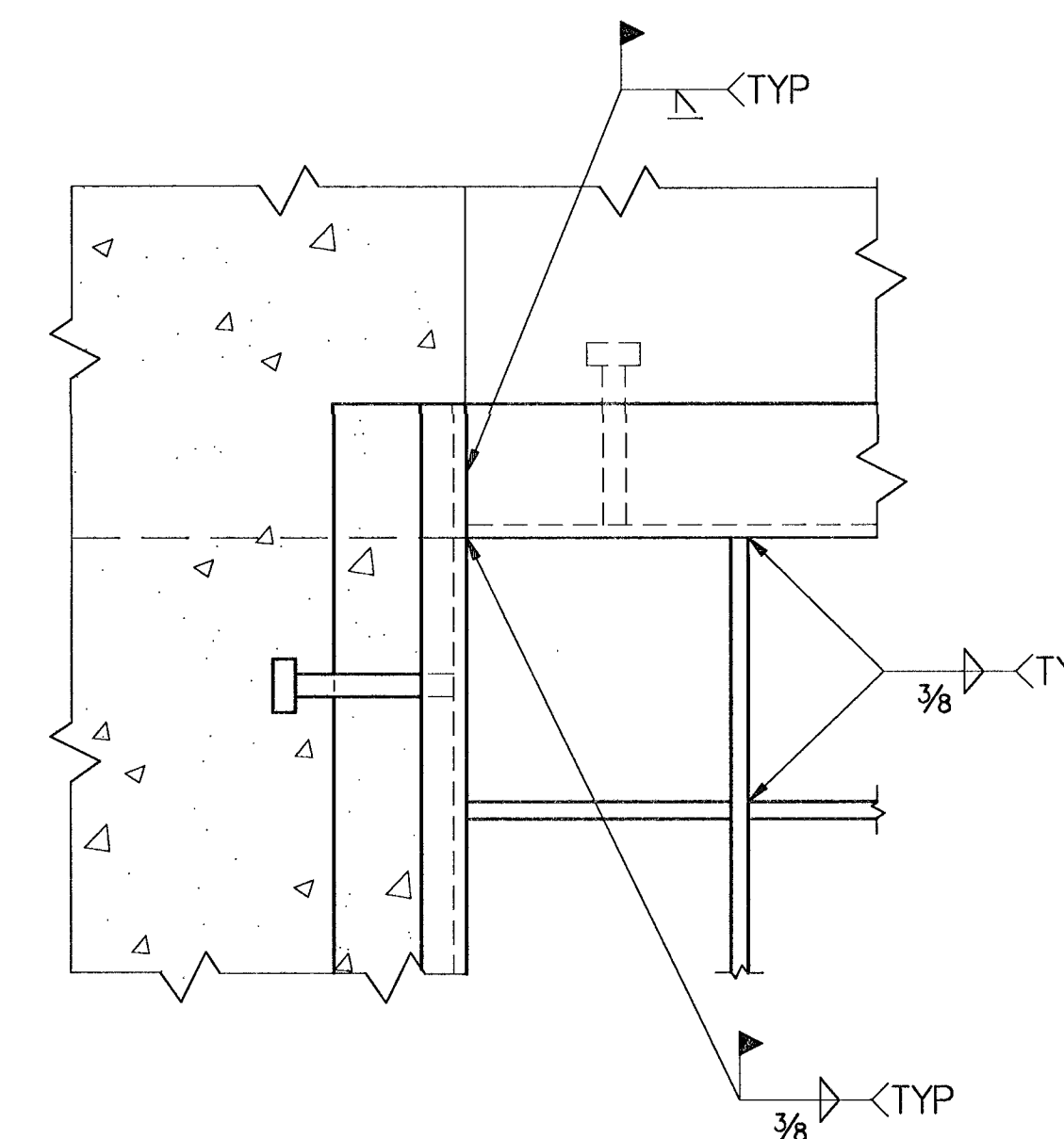
SECTION 2
SCALE: 3/4" = 1'-0"



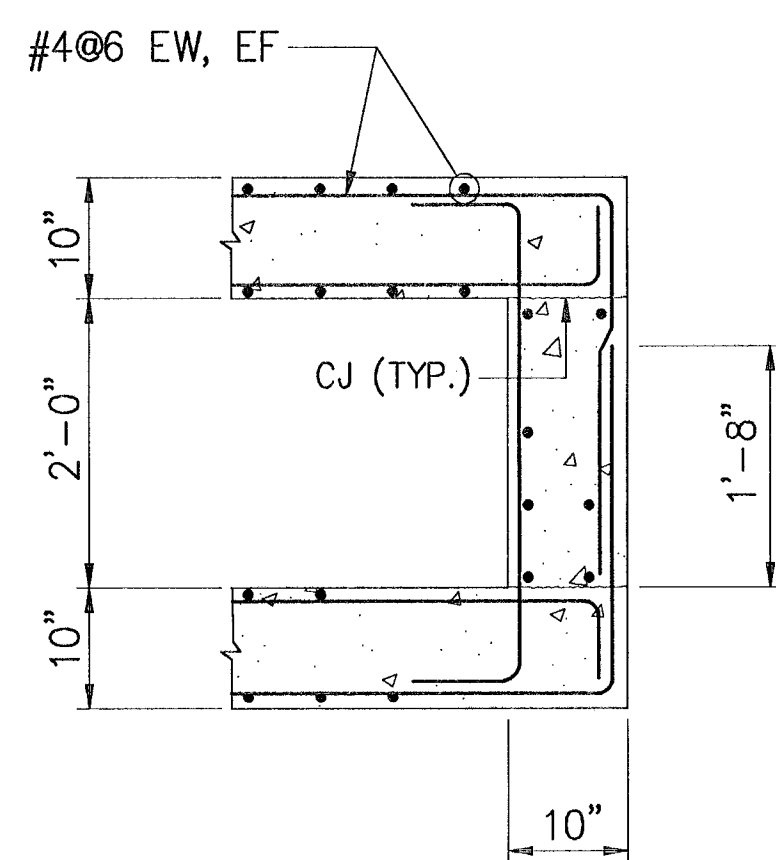
SECTION 3
SCALE: 3/4" = 1'-0"



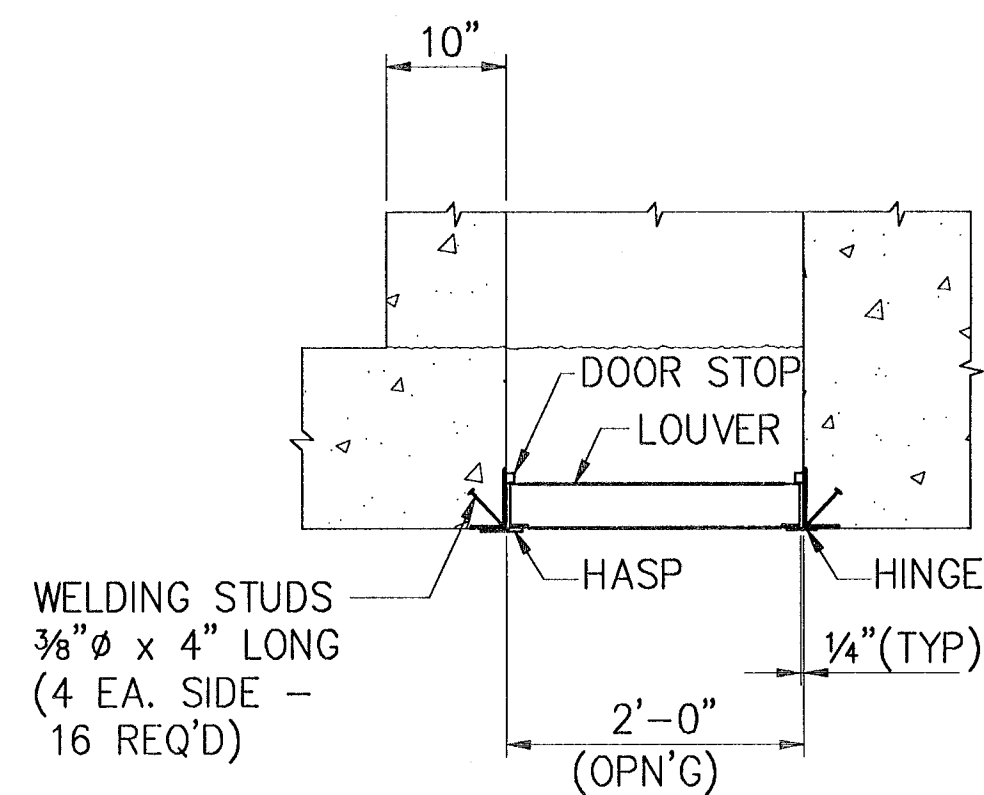
SECTION 5
SCALE: 3/4" = 1'-0"



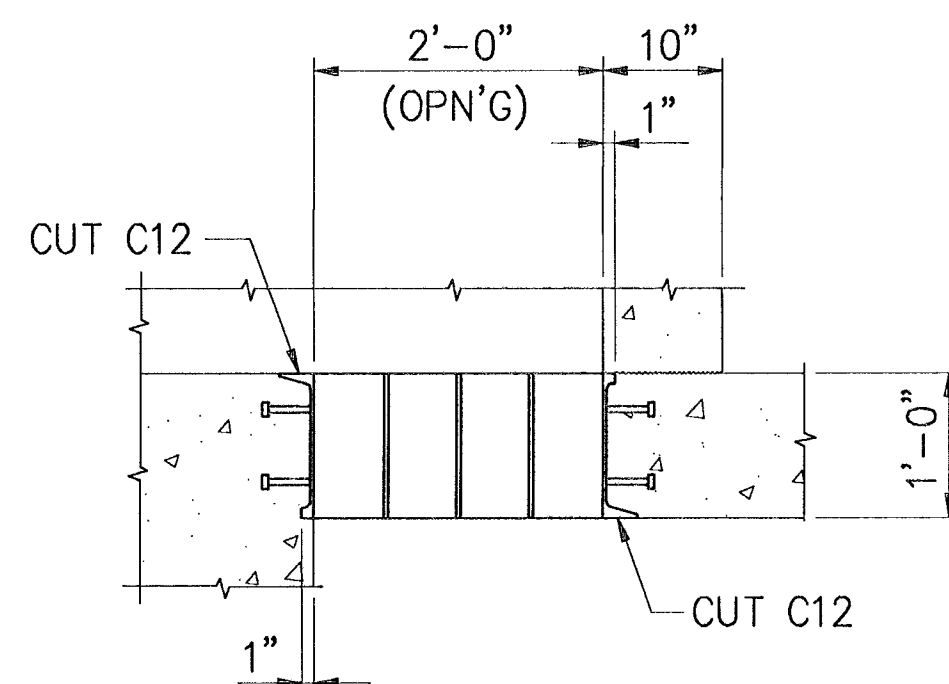
DETAIL 1
SCALE: 3" = 1'-0"



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

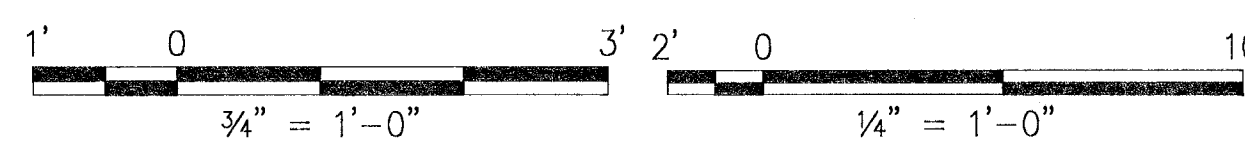


SECTION 6
SCALE: 3/4" = 1'-0"

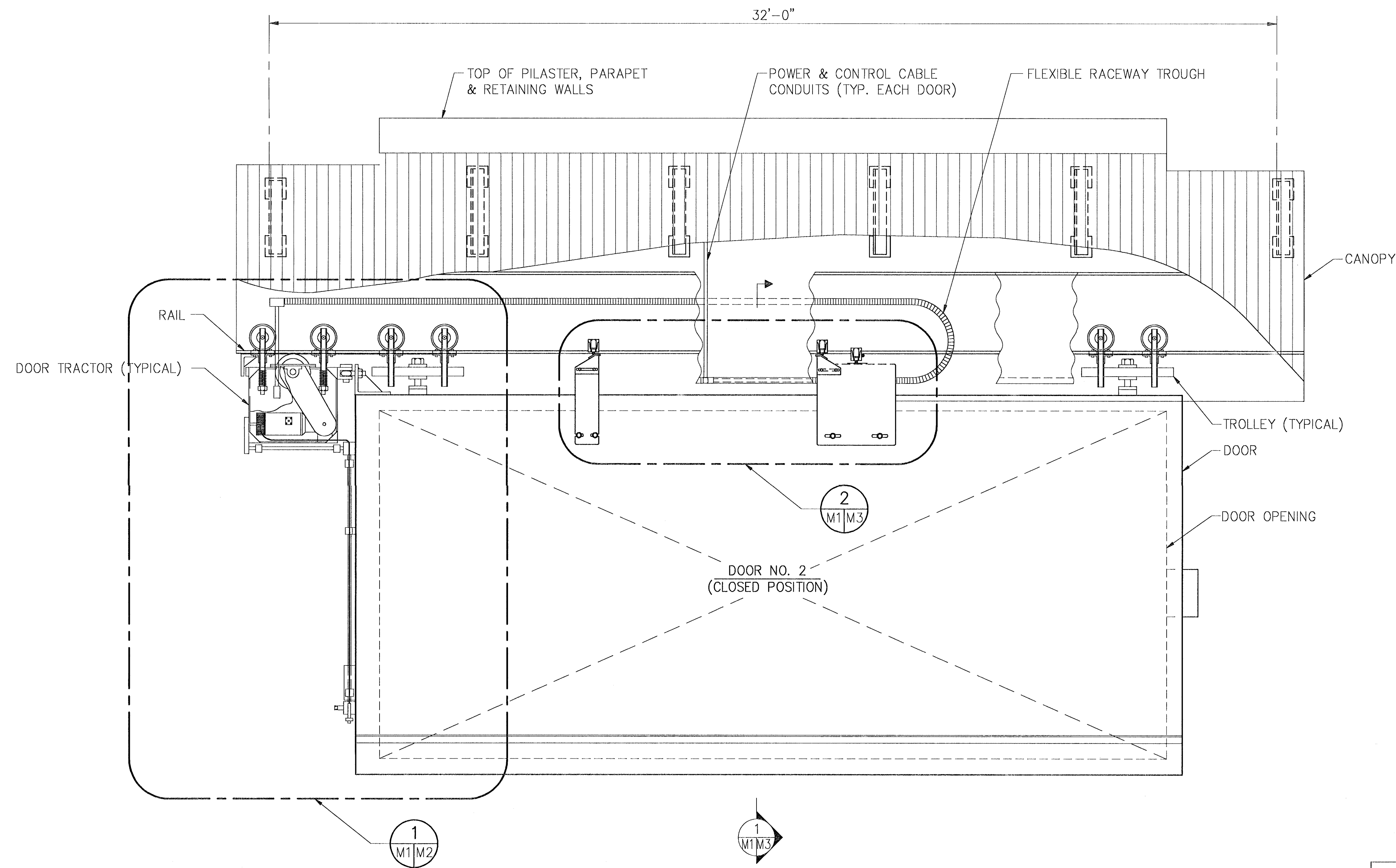


SECTION 7
SCALE: 3/4" = 1'-0"

IF SHEET IS LESS THAN
(22" x 34")
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY



SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014 DATE: 27/5/97 PRINCIPAL ENGINEER: Ron Brady ENGINEER IN CHARGE: R. Brady CRITERIA MANAGER: R. Brady NAVFAC/ENCOM						
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' AIR INTAKE DETAILS						
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER			S-25	
D	80091	6,448,579			SHEET 25 OF 34	
SCALE	AS NOTED	CONTRACT NO				
CATEGORY CODE		SPEC NO				

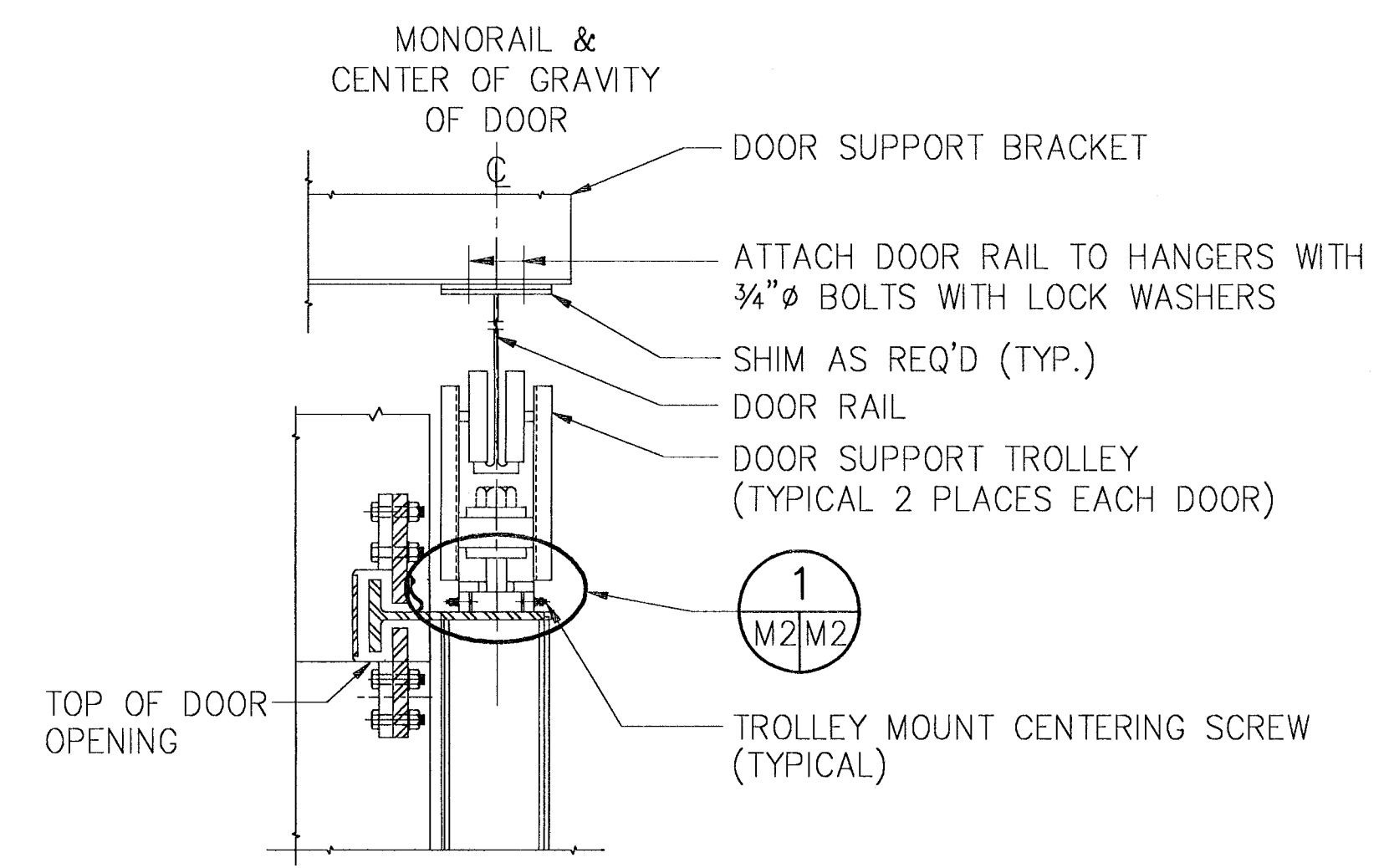
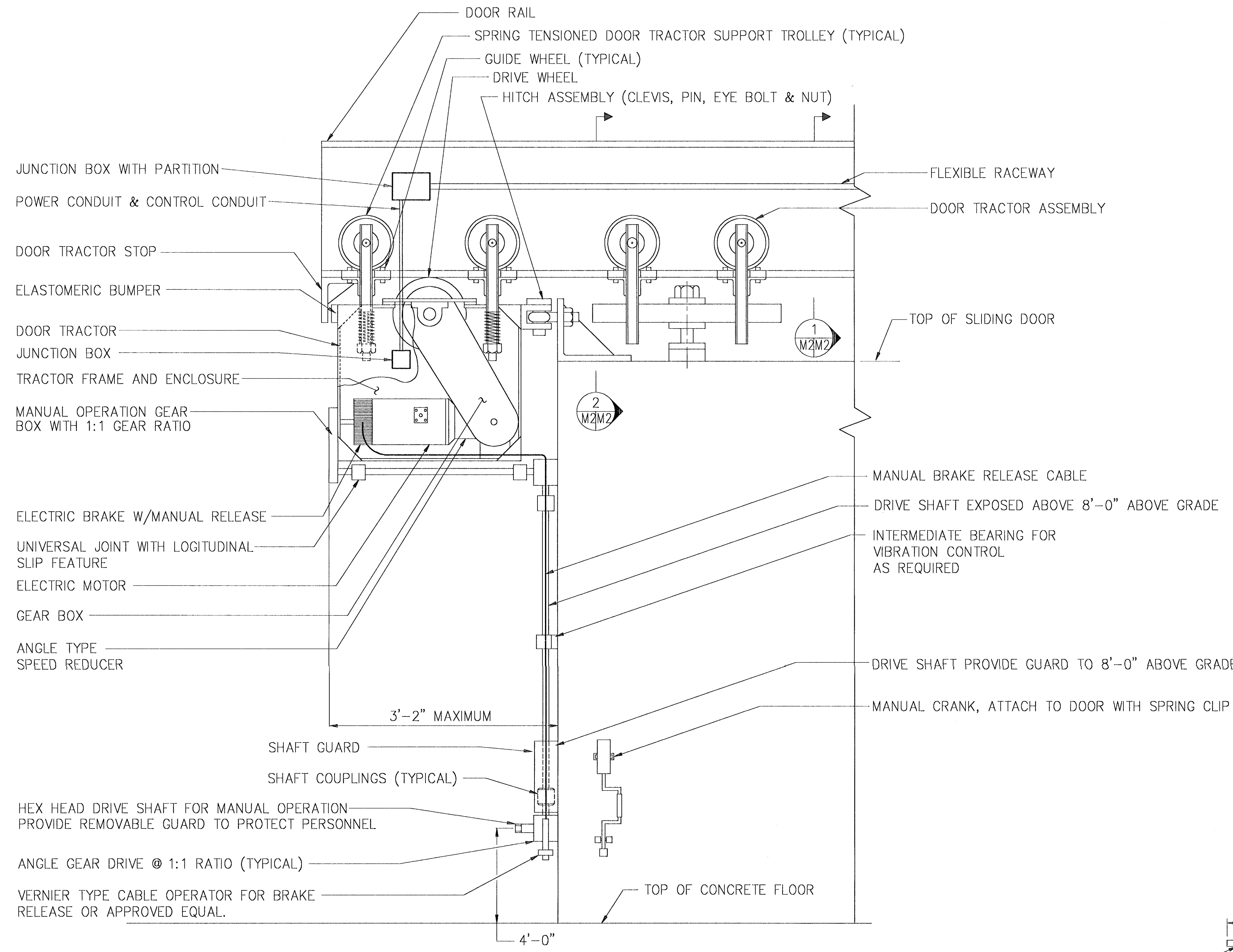


FRONT ELEVATION OF SLIDING DOOR

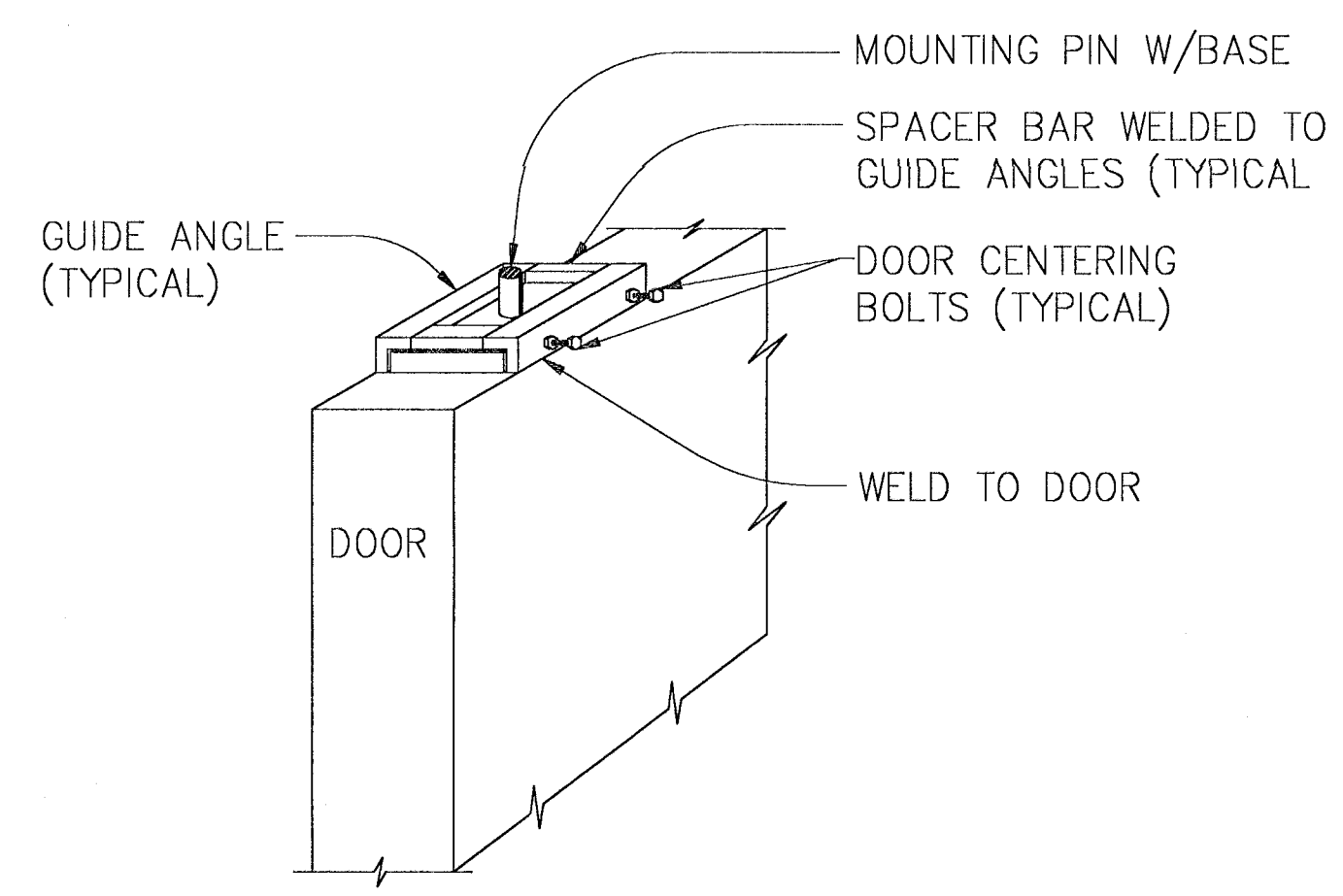
SCALE: NTS

IF SHEET IS LESS THAN
(22" x 34")
IT IS A REDUCED PRINT --
SCALE REDUCED ACCORDINGLY

SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 WORTON ST., NEW YORK, NY 10014 DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350				
NAVAL FACILITIES ENGINEERING COMMAND				
STANDARD DRAWING				
HSILS BOX MAGAZINE TYPE 'D'				
ELEVATION OF SLIDING DOOR OPERATOR				
ENGINEER IN CHARGE <i>R. Brady</i>	DATE 27/5/97	BRANCH MANAGER <i>K. K... ..</i>		
CRITERIA MANAGER <i>R. Brady</i>	DATE	DIVISION DIRECTOR <i>A.</i>		
NAVFACENCOM				
FIRE PROTECTION ENGINEER	DATE	SIZE D	CODE/DRAWING NO. 80091	NAVFAC DRAWING NUMBER 6,448,580
CRITERIA MANAGER	DATE	SCALE 1/8" = 1'-0"	CONTRACT NO.	M-1
APPROVED	DATE	CATEGORY CODE	SPEC NO.	SHEET 26 OF 34
SATISFACTORY TO		FOR COMMANDER NAVFACENCOM		
TITLE	DATE			

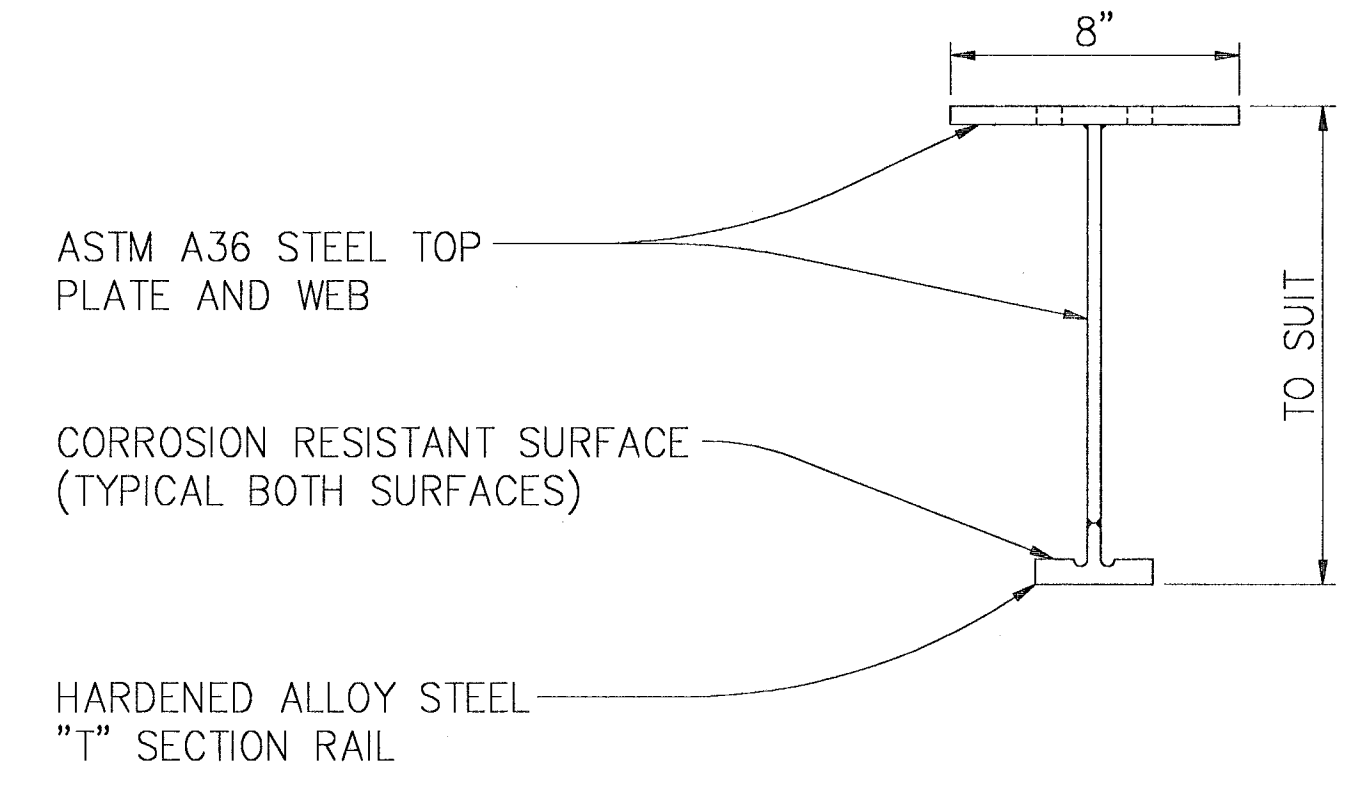


SECTION 2
SCALE: NTS



DETAIL 1
SCALE: NTS

DETAIL 1
SCALE: NTS

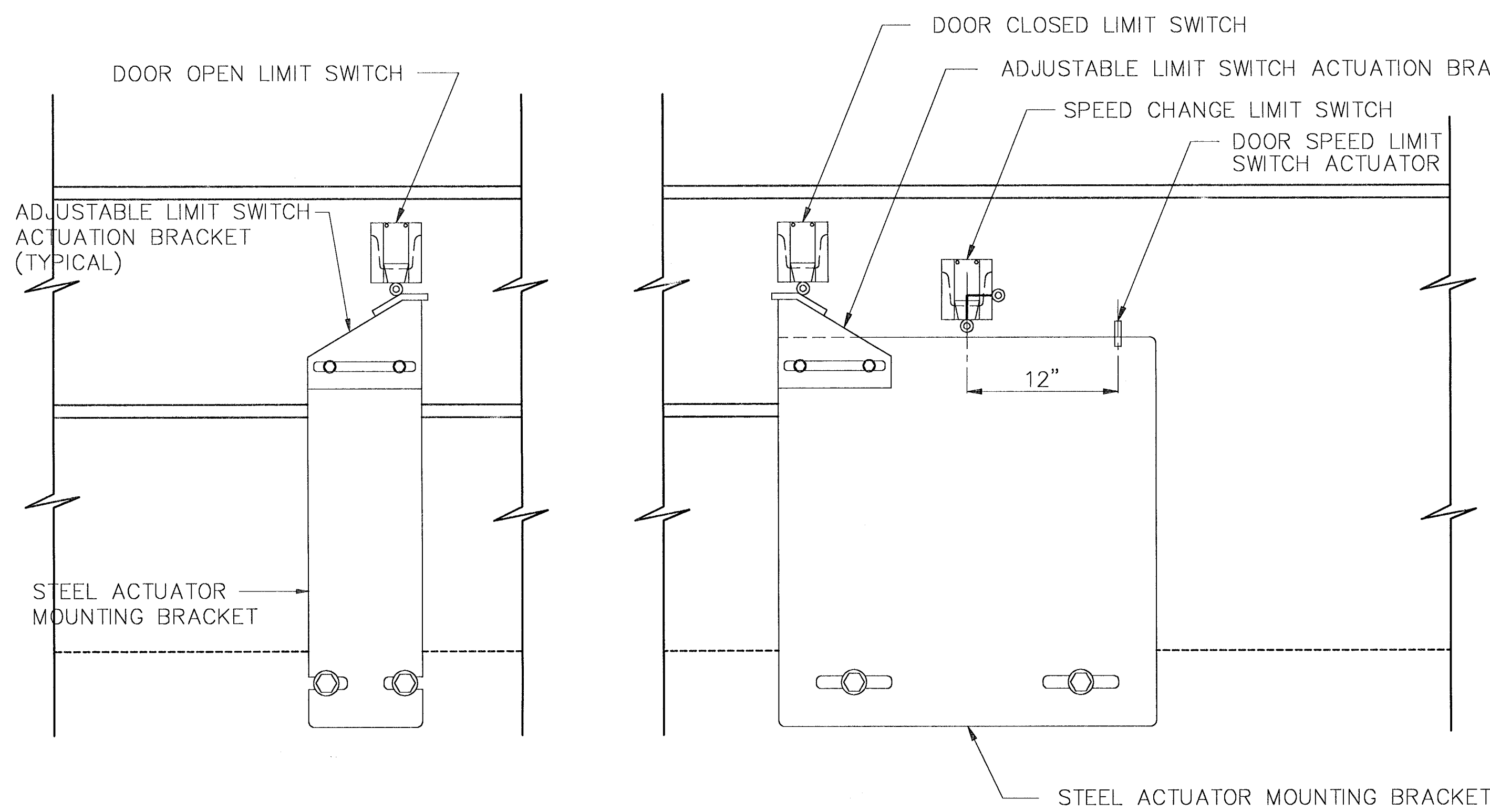


SECTION 1
SCALE: NTS

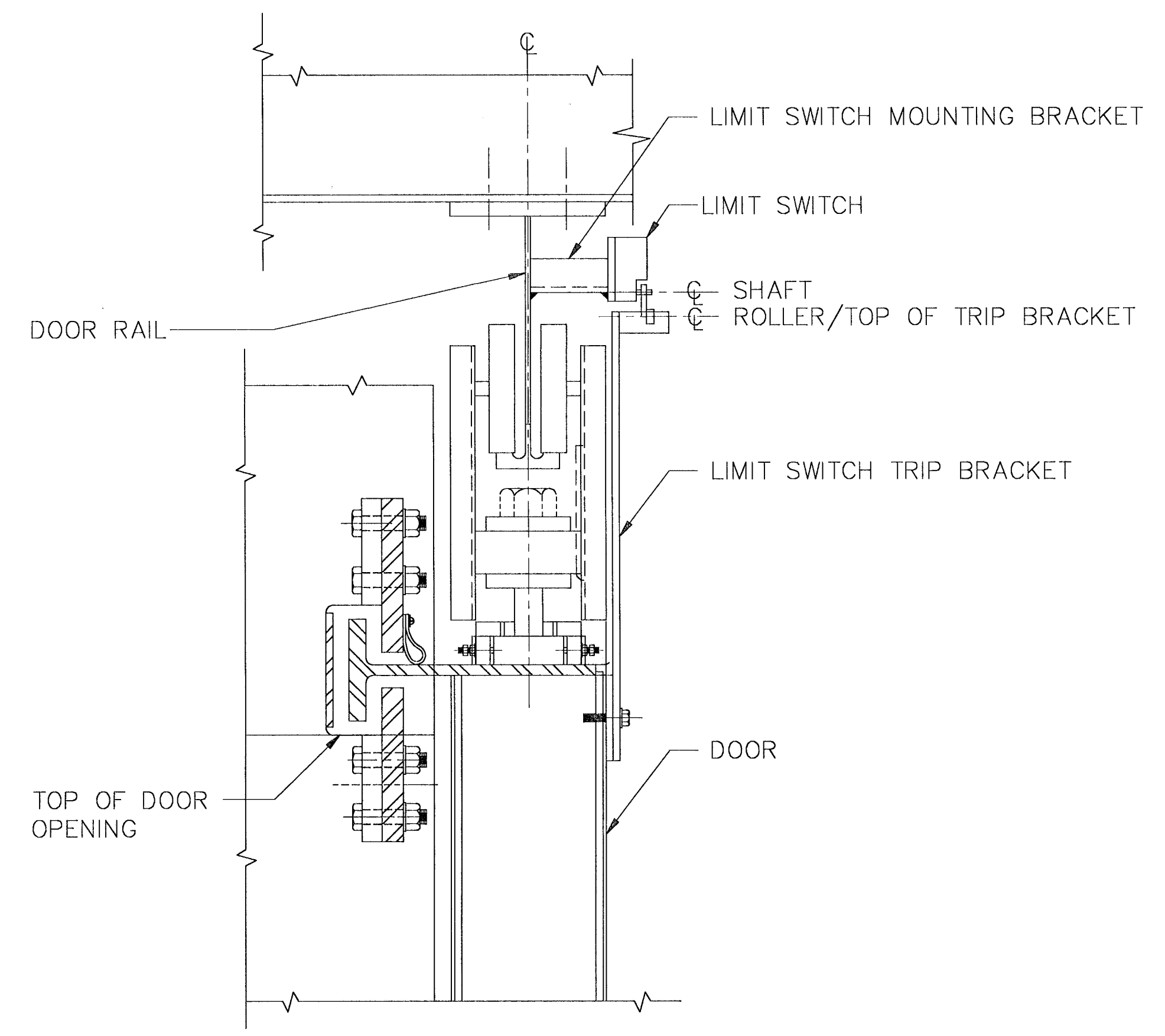
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

- NOTES:**
1. USE DOOR CENTERING BOLTS TO POSITION THE TROLLEY PIN & BASE FOR A BALANCED DOOR.
 2. WELD TROLLEY MOUNTING BASE TO GUIDE ANGLES AND SPACER BARS AFTER BALANCING DOOR.
 3. CONTRACTOR MAY SUBMIT ALTERNATE TROLLEYS & MOUNTS FOR APPROVAL.

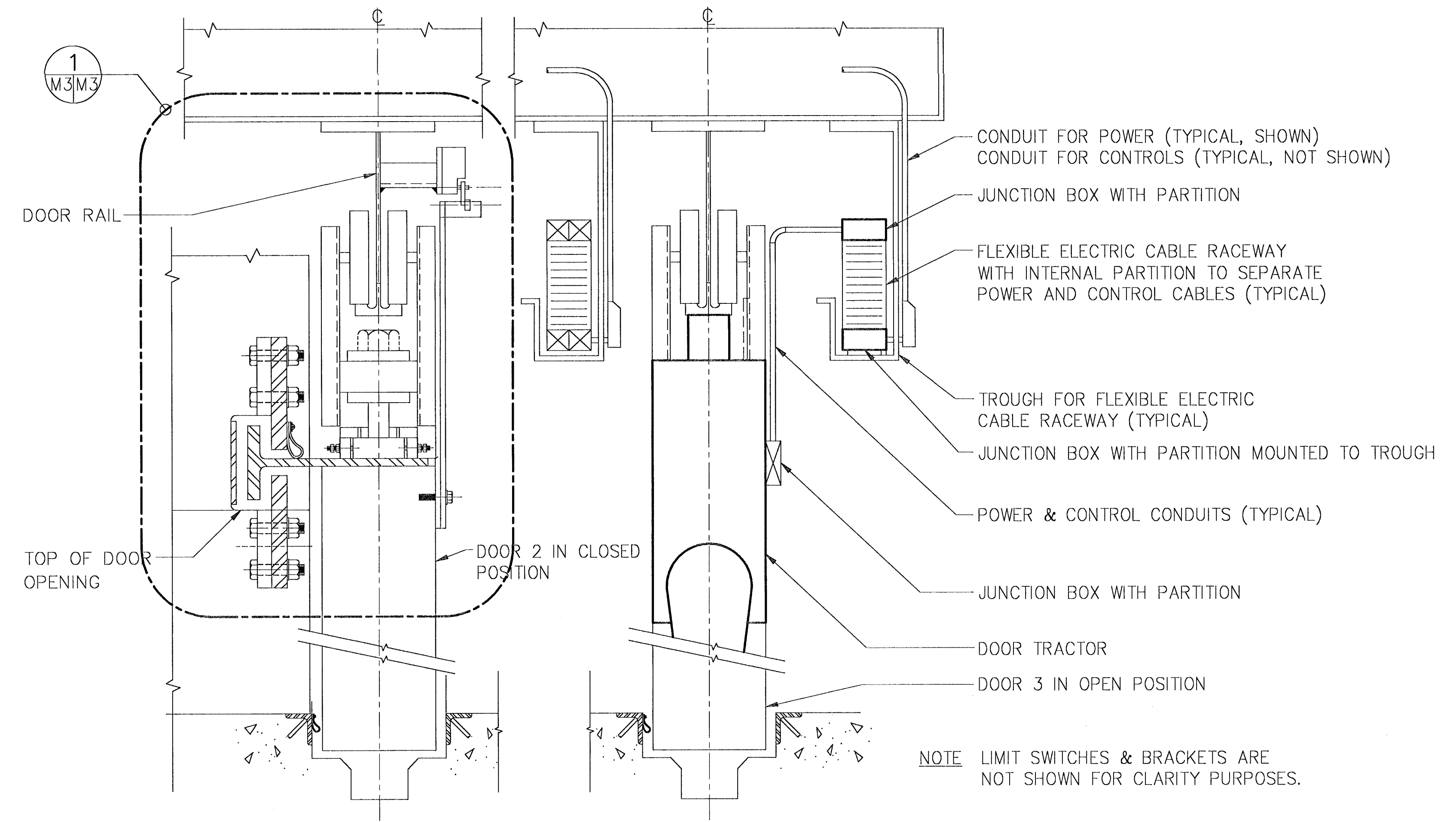
SYMBOL		DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS					
<p>AMMANN & WHITNEY CONSULTING ENGINEERS 95 MARION ST., NEW YORK, NY 10014</p> <p>27/5/97</p> <p>Principal Engineer: <i>Ron Brady</i> Engineer in Charge: <i>R. Brady</i> Criteria Manager: <i>R. Brady</i> Navfac/NSGOM</p> <p>DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350</p> <p>NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' SLIDING DOOR TRACTOR AND DOOR MOUNTING DETAILS</p>					
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	M-2		
D	80091	6,448,581			
SCALE	CONTRACT NO	SHEET	27		
1/8" = 1'-0"		OF	34		
SATISFACTORY TO	DATE	FOR COMMANDER NAVFACNSGOM			
TITLE	DATE	CATEGORY CODE			



DETAIL
SCALE: NTS
②
M3/M3



DETAIL
SCALE: NTS
①
M3/M3



SECTION
SCALE: NTS
①
M1/M3

NOTE LIMIT SWITCHES & BRACKETS ARE NOT SHOWN FOR CLARITY PURPOSES.

IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

SYMBOL		DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS					
AMMANN & WHITNEY CONSULTING ENGINEERS 95-MORTON ST., NEW YORK, NY 10014 DATE: 27/5/97 ENGINEER IN CHARGE: <i>R. Brody</i> BRANCH MANAGER: <i>R. Brody</i> CRITERIA MANAGER: <i>R. Brody</i> NAVFACENSGOM DIVISION DIRECTOR: <i>R. Graydon</i>					
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' SLIDING DOOR POWER AND CONTROL EQUIPMENT DETAILS					
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	6,448,582		
D	80091				M-3
SCALE	1/8" = 1'-0"		CONTRACT NO	SHEET 28 OF 34	
SATISFACTORY TO	DATE	TITLE	DATE	FOR COMMANDER NAVFACENSGOM	

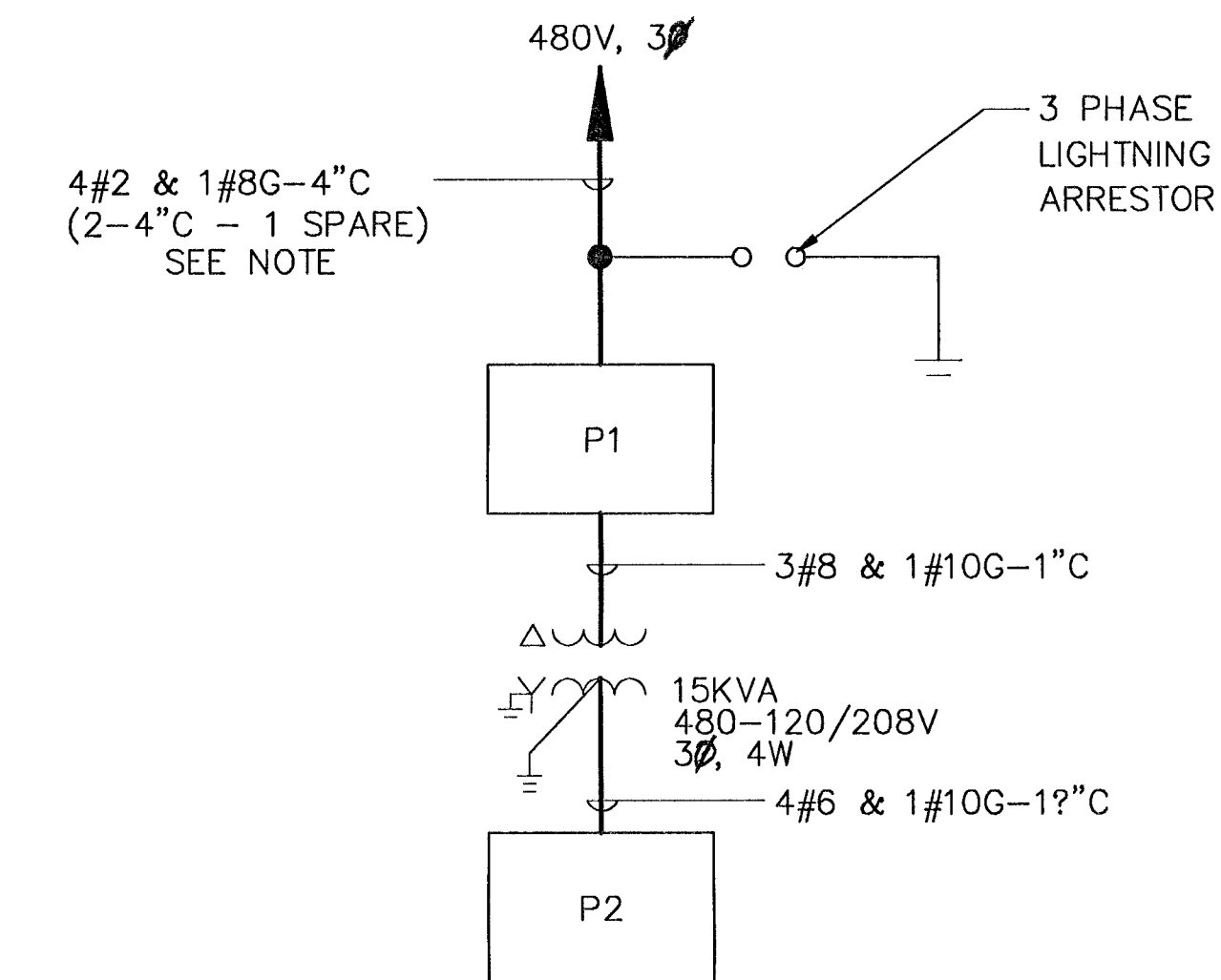
ELECTRICAL LEGEND AND ABBREVIATIONS

ELECTRICAL LEGEND:

<p>A 100W FLUORESCENT LIGHT FIXTURE FOR HAZADOUS LOCATIONS (SURFACE MOUNTED)</p> <p>→○B 250W HPS OUTDOOR LIGHT FIXTURE (WALL MOUNTED FLOODLIGHT)</p> <p>⊖ 20A, 125V, 2P, 3W GROUNDING TYPE DUPLEX RECEPTACLE MTD 1'-6" AFF</p> <p>▭ MAIN TELEPHONE ID, FA TERMINAL CABINET IN A NEMA 4X ENCLOSURE</p> <p>▭ 277/480V, 3φ, 4W POWER PANEL IN A NEMA 4X ENCLOSURE</p> <p>▭ 120/208V, 3φ, 4W LIGHTING PANEL IN A NEMA 4X ENCLOSURE</p> <p>T 15KVA, 480-120/208V, 3φ, 4W STEP DOWN TRANSFORMER IN A NEMA 4X ENCLOSURE</p> <p>--- EXPOSED GALVANIZED RIGID STEEL CONDUIT-3/4" C MINIMUM. HASH MARKS INDICATE # OF WIRES. LONG HASH INDICATES NEUTRAL. #12 AWG WIRE MINIMUM.</p> <p>--- BURIED IN EARTH OR CONCEALED IN CONCRETE -- GALVANIZED RIGID STEEL CONDUIT (3/4" C MINIMUM)</p> <p>→ HOMERUN TO PANEL (3/4" C MINIMUM)</p> <p>S 20A, 125V 1P LIGHT SWITCH FOR HAZADOUS LOCATION MTD. 3'-6" AFF.</p> <p>M DOOR OPERATOR TYPE AND LOCATION AS REQUIRED BY DOOR MANUFACTURER</p> <p>□ 600V, 30A, 3P SAFETY DISCONNECT SWITCH</p> <p>● EXP DOOR CONTROL PUSHBUTTON STATION FOR HAZADOUS LOCATION MTD +4'-0"</p> <p>● DOOR CONTROL PUSHBUTTON STATION-NEMA 4X ENCLOSURE MTD 4'-0"</p> <p>L LIMIT SWITCH, TYPE AND LOCATION AS REQUIRED BY DOOR MANUFACTURER</p> <p>▽ SURFACE MOUNTED TELEPHONE OUTLET BOX WITH GASKETED COVER MTD. 1'-6" AFF.</p> <p>▭ COPPER GROUND BUS - 3" WIDE X 3'-0" LONG X 1/2" DEEP</p> <p>⊙ JUNCTION BOX.</p> <p>⊗ COPPER AIR TERMINAL 5/8" X 24" LONG</p> <p>⊙ COPPER WELD SECTIONAL GROUND ROD 3/4" DIAMETER X 10'x0" LONG.</p> <p>● EXOTHERMIC WELD</p> <p>--- BARE COPPER GROUND CABLE #2/0 AWG</p> <p>⊖ GROUND REEL-SPRING DRIVEN AUTOMATIC RETRIEVAL WITH 50' 1/C #2AWG COPPER CABLE</p>	<h3>ABBREVIATIONS:</h3> <p>AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AWG AMERICAN WIRE GAGE AF AMP FRAME OR AMP FUSE AT AMP TRIP ATS AUTOMATIC TRANSFER SWITCH AMP OR A(S) AMPERE(S) AS AMP SWITCH APPROX APPROXIMATELY BLDG. BUILDING C.B. CIRCUIT BREAKER C CONDUIT CKT OR CIR. CIRCUIT COMM COMMUNICATION ⊕ CENTERLINE D DEEP DIST. DISTRIBUTION DWG. DRAWING E EMERGENCY EC EMPTY CONDUIT ELECT. ELECTRICAL EMERG. EMERGENCY EWC ELECTRIC WATER COOLER E & S EYE WASH & SHOWER EXH EXHAUST EXIST. EXISTING EXP EXPLOSION-PROOF FOR HAZADOUS LOCATION FACP FIRE ALARM CONTROL PANEL FDR(S) FEEDER(S) FLUOR. FLUORESCENT F.A. FIRE ALARM GFP GROUND FAULT PROTECTION GRS GALVANIZED RIGID STEEL GFI GROUND FAULT INTERRUPTER HOA HAND-OFF-AUTOMATIC HT. HEIGHT HZ HERTZ HID HIGH INTENSITY DISCHARGE H.P.S. HIGH PRESSURE SODIUM H HIGH HP HORSEPOWER ID INTRUSION DETECTION INCAND. INCANDESCENT JB JUNCTION BOX KW KILOWATT KWH KILOWATT-HOUR KV KILOVOLT KVA KILOVOLT AMPERE LTC. LIGHTING LP LIGHTING PANEL</p> <p>MAX MAXIMUM MECH. MECHANICAL MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MTD MOUNTED MG OR M/G MOTOR/GENERATOR SET MIN MINIMUM MTG MOUNTING NEC NATIONAL ELECTRICAL CODE N NORMAL NON-AUTO NON-AUTOMATIC NF NON-FUSED NC OR N.C. NORMALLY CLOSED NO OR N.O. NORMALLY OPEN NIC NOT IN CONTRACT N.T.S. NOT TO SCALE O.C. ON CENTER PNL PANEL ? PHASE OR DIAMETER PLATF. PLATFORM P POLE PVC POLY VINYL CHLORIDE PWR POWER PP POWER PANEL PB PULLBOX QTY. QUANTITY RMS ROOT MEAN SQUARED RP RECEPTACLE PANEL R.C. REMOTE CONTROL S.C. SHORT CIRCUIT SUBSTA. SUBSTATION SW. SWITCH SWBD SWITCHBOARD SWGR SWITCHGEAR SYM SYMMETRICAL TRANSF. TRANSFORMER TEL TELEPHONE TYP. TYPICAL UL UNDERWRITERS LABORATORY UON UNLESS OTHERWISE NOTED VENT VENTILATION V VOLT WM WATTMISER WTR WATER WTR HTR WATER HEATER WP WEATHERPROOF W WATT, WIRE OR WIDE</p>
---	--

GENERAL NOTES:

- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
- ALL INTERIOR ELECTRICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH THE N.E.C. NFPA 70 REQUIREMENTS FOR HAZADOUS LOCATIONS. EXACT TYPE OF CLASSIFICATION SHALL BE DETERMINED FOR EACH SITE.
- PROVIDE SEAL FITTINGS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- FOR DOOR CONTROLS SEE PERFORMANCE SPECIFICATIONS.
- THE EXACT LOCATION AND TYPE OF DOOR OPERATOR, CONTROL STATION AND LIMIT SWITCHES SHALL BE ACCORDANCE WITH DOOR MANUFACTURERS REQUIREMENTS & DRAWINGS M-1, M-2 & M-3.
- ALL ARCHITECT/ENGINEERS USING THESE DRAWINGS AS STANDARDS SHALL INCLUDE THE INTERRUPTING CURRENTS OF ALL ELECTRICAL ITEMS ON THEIR DRAWINGS.



SINGLE LINE DIAGRAM

N.T.S.

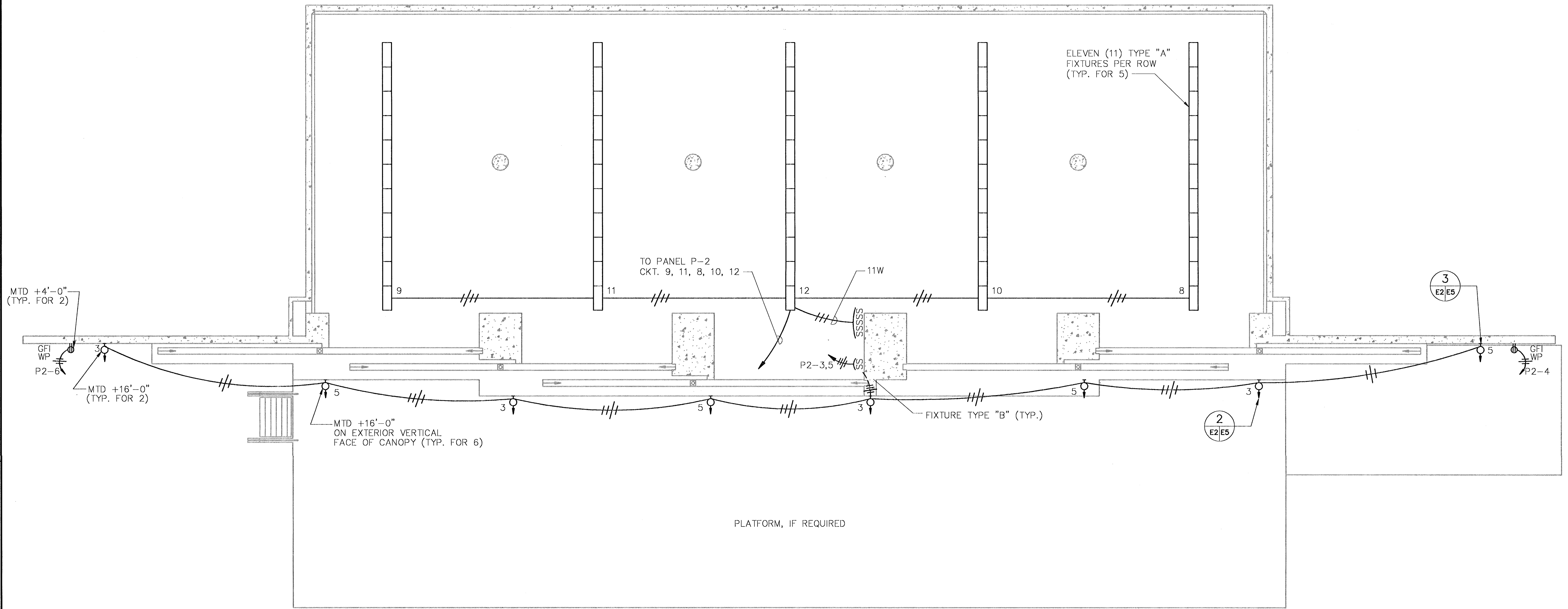
NOTE-A/E TO VERIFY INCOMING POWER VOLTAGE AND CABLE SIZES. VOLTAGE DROP CALCULATIONS SHALL BE PERFORMED BASED ON SITE ADAPTED LENGTH OF CABLE RUN.

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	LAMP TYPE	DATA			MTG.	REMARKS
		QUANTITY	WATTS	VOLTAGE		
A	FLUORESCENT	AS REQUIRED	100	120	SURFACE	REFER TO DRAWING E-5
→○B	HIGH PRESSURE SODIUM	AS REQUIRED	250	120	WALL SURFACE	REFER TO DRAWING E-5

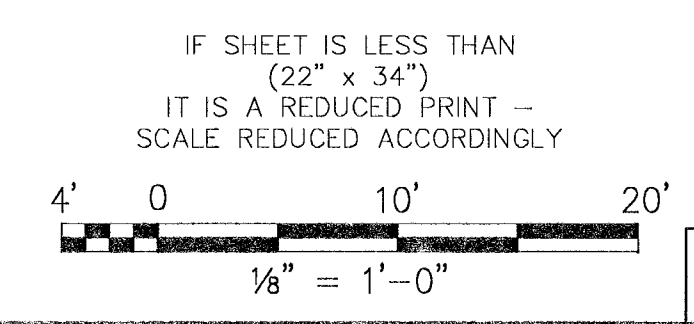
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 961 MORTON ST., NEW YORK, NY 10014 PROJECT MANAGER: <i>[Signature]</i> DATE: 27/5/97 ENGINEER IN CHARGE: <i>[Signature]</i> CENTER MANAGER: <i>[Signature]</i> DIVISION DIRECTOR: <i>[Signature]</i> NAVFACENSGOON		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' LEGEND, NOTES, ABBREVIATIONS, SINGLE LINE DIAGRAM				
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	6,448,583		E-1	
SATISFACTORY TO	DATE	APPROVED	DATE	SCALE	CONTRACT NO	SHEET 29 OF 34
TITLE	DATE	FOR COMMANDER NAVFACENSGOON		CATEGORY CODE	SPEC NO	

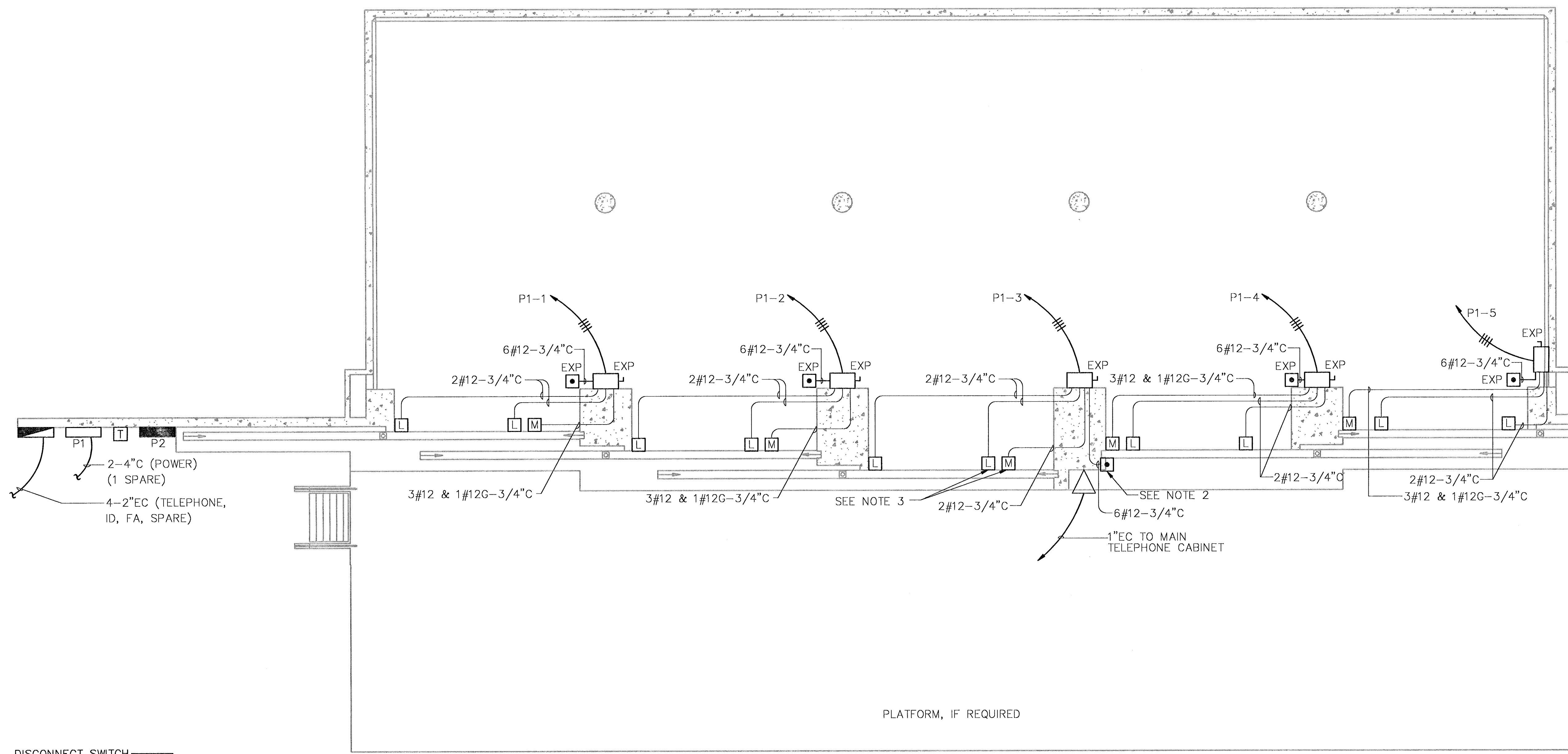


FLOOR PLAN
SCALE: 1/8" = 1'-0"

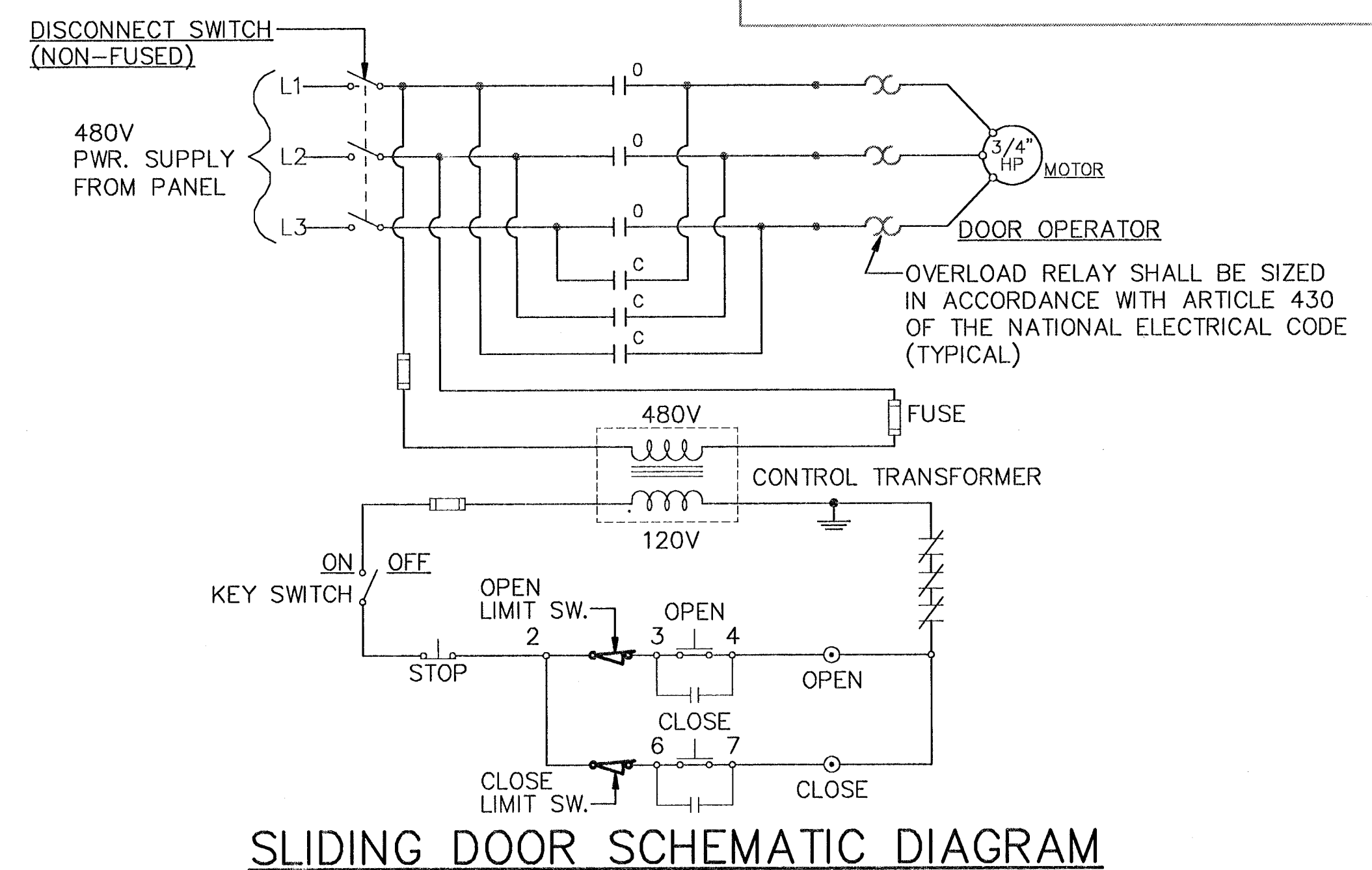
NOTE:
ALL INTERIOR ELECTRICAL EQUIPMENT AND SYSTEMS
SHALL BE FOR HAZADOUS LOCATIONS.



SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014				
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350				
NAVAL FACILITIES ENGINEERING COMMAND				
STANDARD DRAWING				
HSILS BOX MAGAZINE TYPE 'D'				
LIGHTING AND RECEPTACLES PLAN				
DATE	27/5/97			
ENGINEER IN CHARGE	ROA Brody	BRANCH MANAGER		
CUSTOMER MANAGER	R. Brody	DIVISION DIRECTOR		
NAVY/NAVCOM				
FIRE PROTECTION ENGINEER		DATE		
CUSTOMER MANAGER		DATE		
APPROVED		DATE		
TITLE		DATE		
SIZE	D	CODE IDENT NO	80091	MANUF. DRAWING NUMBER
SCALE	AS NOTED	CONTRACT NO	6,448,584	
CATEGORY CODE		SPEC NO		
			SHEET	30
			OF	34

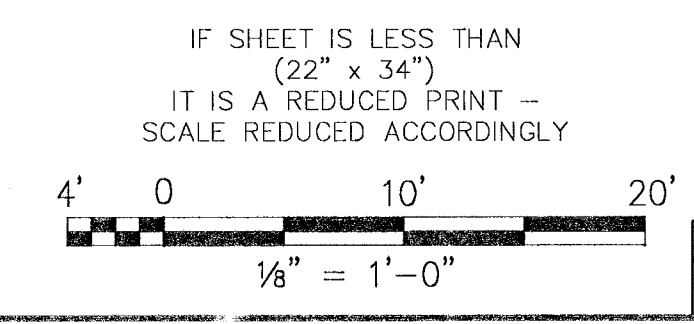


- NOTES:
1. FOR DOOR WIRING DIAGRAMS SEE SCHEMATIC DIAGRAM.
 2. DOOR CONTROL PUSHBUTTON STATION SHALL BE MOUNTED 4'-0" ABOVE PLATFORM.
 3. THE EXACT LOCATION AND TYPE OF DOOR OPERATOR AND LIMIT SWITCHES SHALL BE IN ACCORDANCE WITH DOOR MANUFACTURERS REQUIREMENTS.

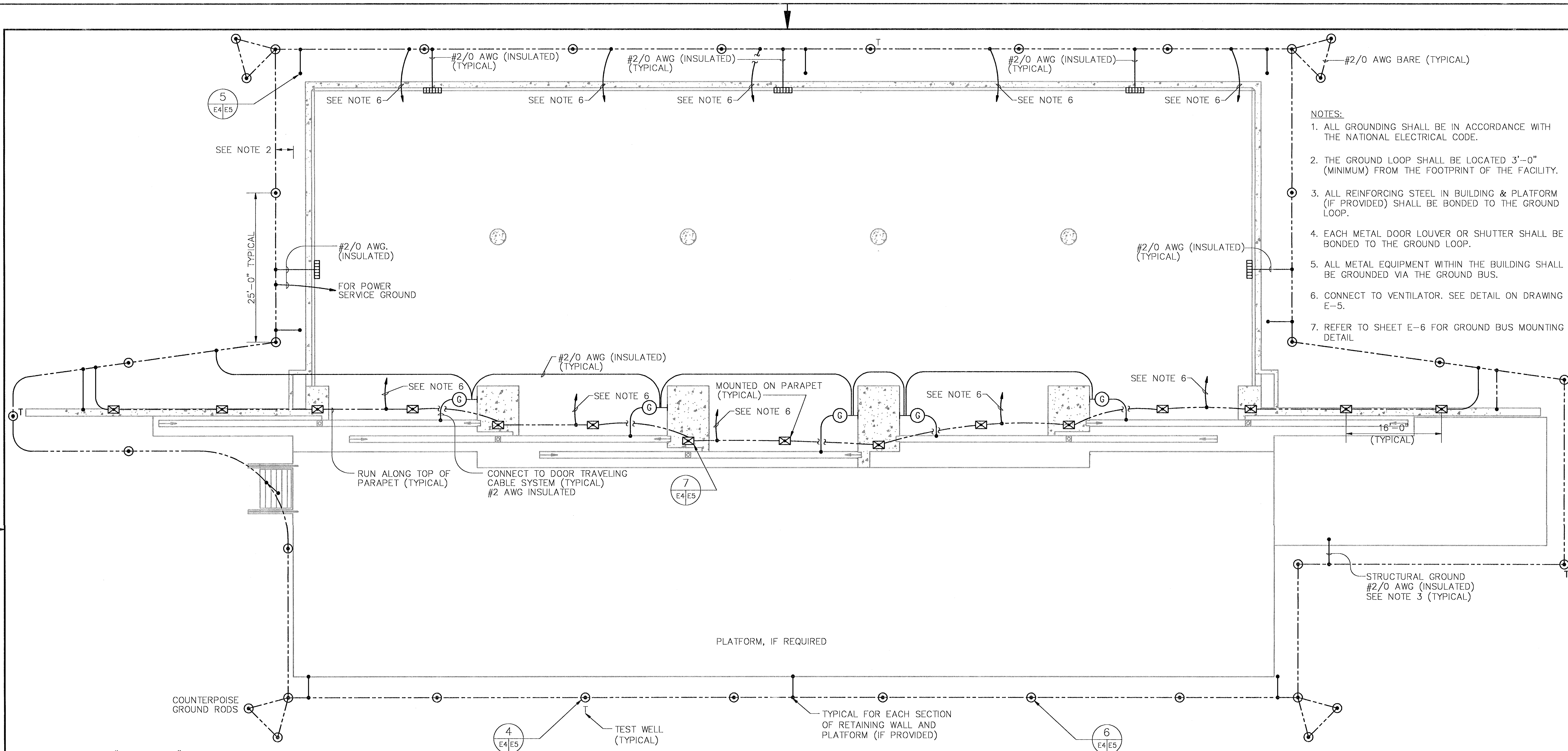


SLIDING DOOR SCHEMATIC DIAGRAM
 ACTUAL INSTALLATION SHALL BE SITE ADAPTED AND COORDINATED WITH MANUFACTURER AND SHOP DRAWINGS.

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

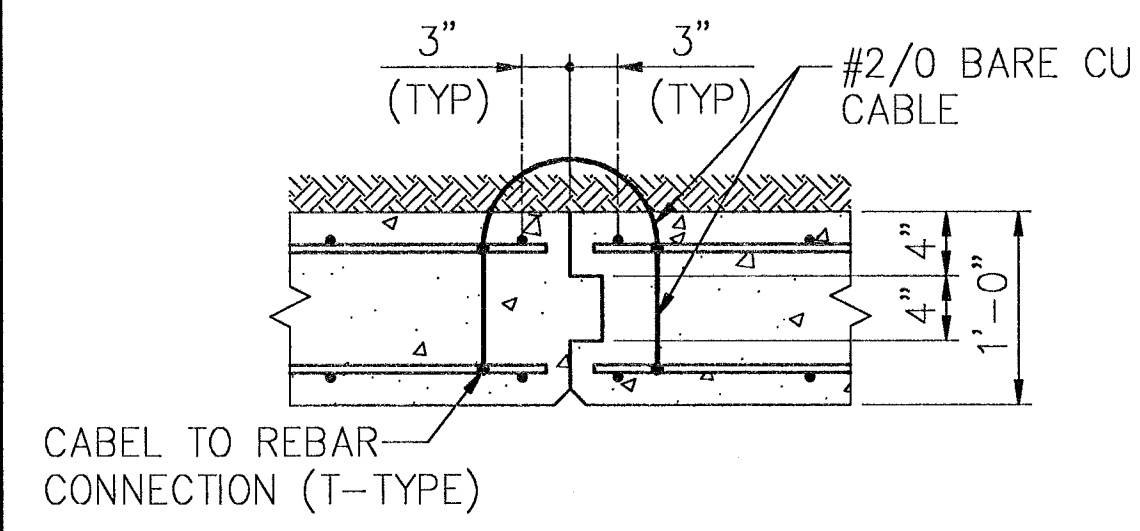


SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014 DATE: 27/5/97 PRINCIPAL ENGINEER: <i>R. Brady</i> ENGINEER IN CHARGE: <i>R. Brady</i> CRITERIA MANAGER: <i>R. Brady</i> NAVFACENSGCOM DIVISION DIRECTOR: <i>R. Brady</i>						
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' POWER AND AUXILIARY SYSTEM PLAN						
SIZE	CODE IDENT NO	NAVAL DRAWING NUMBER	6,448,585		E-3	
SCALE	AS NOTED	CONTRACT NO			SHEET 31 OF 34	
CATEGORY CODE		SPEC NO				

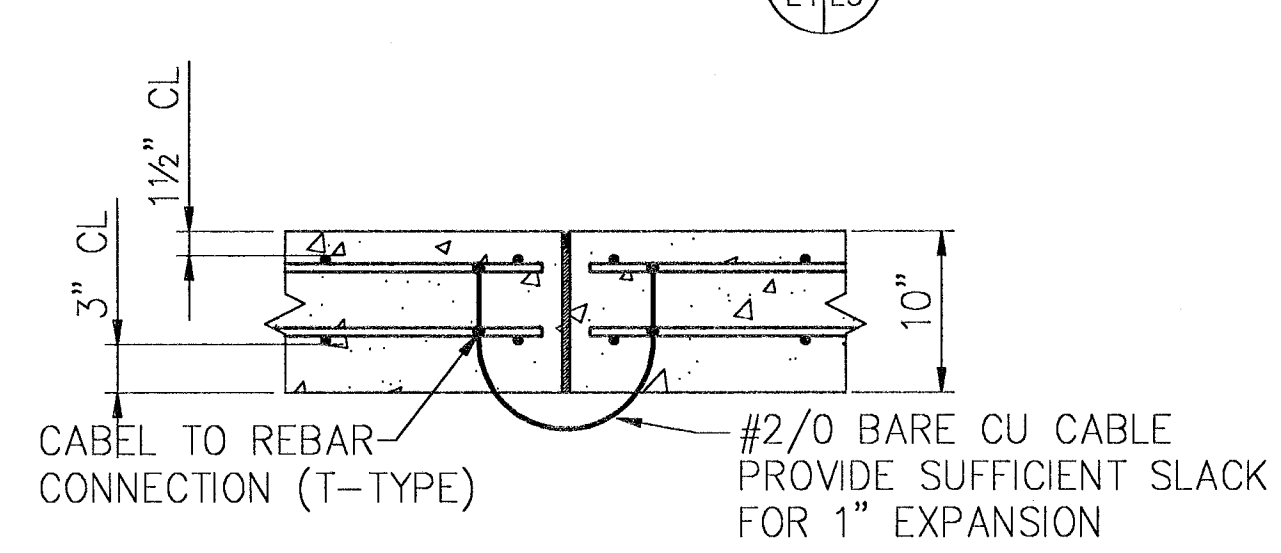


- NOTES:
1. ALL GROUNDING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
 2. THE GROUND LOOP SHALL BE LOCATED 3'-0" (MINIMUM) FROM THE FOOTPRINT OF THE FACILITY.
 3. ALL REINFORCING STEEL IN BUILDING & PLATFORM (IF PROVIDED) SHALL BE BONDED TO THE GROUND LOOP.
 4. EACH METAL DOOR LOUVER OR SHUTTER SHALL BE BONDED TO THE GROUND LOOP.
 5. ALL METAL EQUIPMENT WITHIN THE BUILDING SHALL BE GROUNDING VIA THE GROUND BUS.
 6. CONNECT TO VENTILATOR. SEE DETAIL ON DRAWING E-5.
 7. REFER TO SHEET E-6 FOR GROUND BUS MOUNTING DETAIL.

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

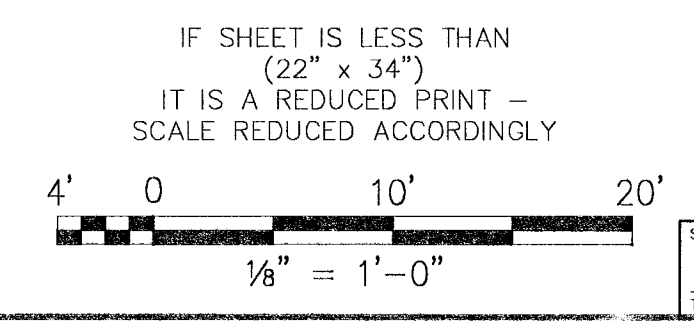


TYPICAL AT EACH CONSTRUCTION JOINT IN PLATFORM RETAINING WALL
N.T.S.



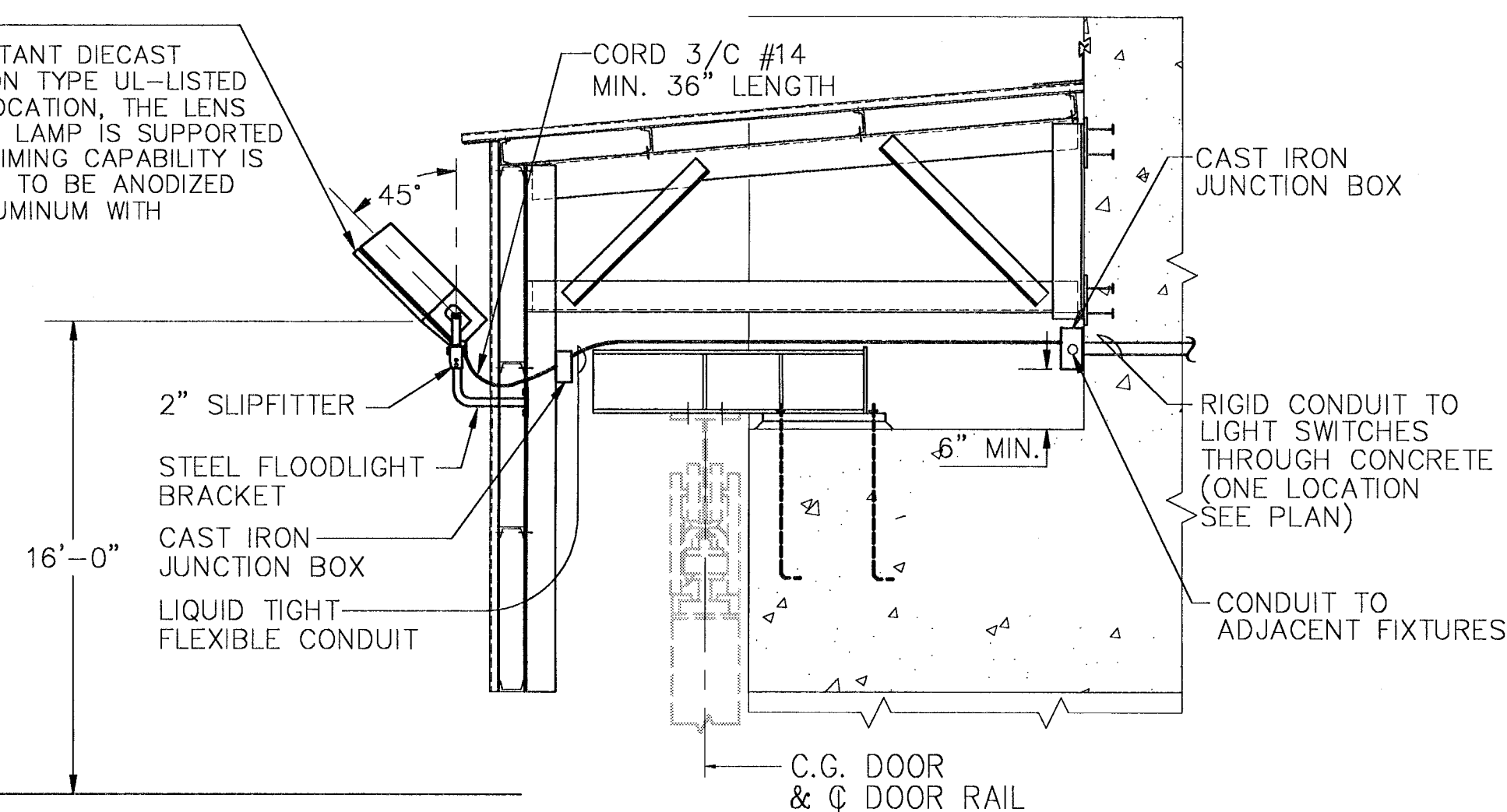
TYPICAL AT EACH EXPANSION JOINT IN PLATFORM SLAB-ON-GRADE
N.T.S.

EACH PLATFORM (WHERE PROVIDED) PANEL ALONG EXTERIOR BLDG WALL SHALL BE BONDED TO PANEL (10) ALONG PLATFORM EDGE. ADJACENT EDGE PANELS SHALL BE BONDED AND EVERY SECOND PANEL (10 TOTAL) SHALL BE BONDED TO GROUND LOOP. ADJACENT RETAINING WALL SECTION SHALL BE BONDED ACROSS CONSTRUCTION JOINT AND EVERY SECOND PANEL SHALL BE BONDED TO GROUND LOOP.



SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 95 WASHINGTON ST., NEW YORK, NY 10014 DATE: 27/5/97				
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' LIGHTNING PROTECTION AND GROUNDING PLAN				
ENGINEER IN CHARGE R. Brady	BRANCH MANAGER M. ...	DATE	NO. 80091	6,448,586
CRITERIA MANAGER R. Brady	DIVISION DIRECTOR A. ...	DATE	SCALE AS NOTED	CONTRACT NO.
FIRE PROTECTION ENGINEER	DATE	SIZE	CODE IDENT NO.	NAVJAC DRAWING NUMBER
CRITERIA MANAGER	DATE	SCALE	AS NOTED	CONTRACT NO.
APPROVED	DATE	SCALE	AS NOTED	CONTRACT NO.
SHEET 32 OF 34		E-4		

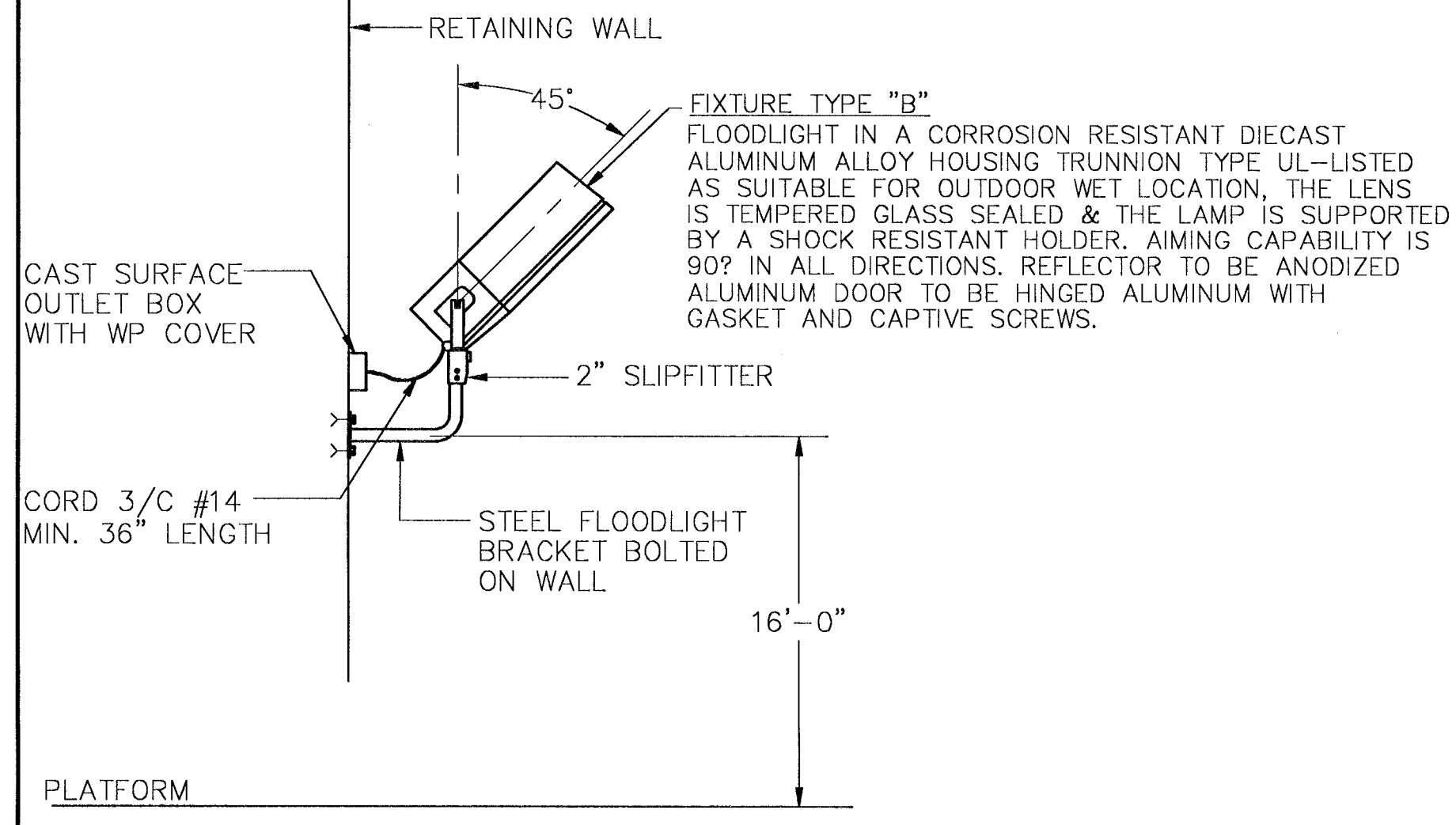
FIXTURE TYPE "B"
 FLOODLIGHT IN A CORROSION RESISTANT DIECAST ALUMINUM HOUSING TRUNNION TYPE UL-LISTED AS SUITABLE FOR OUTDOOR WET LOCATION, THE LENS IS TEMPERED GLASS SEALED & THE LAMP IS SUPPORTED BY A SHOCK RESISTANT HOLDER. AIMING CAPABILITY IS 90° IN ALL DIRECTIONS. REFLECTOR TO BE ANODIZED ALUMINUM DOOR TO BE HINGED ALUMINUM WITH GASKET AND CAPTIVE SCREWS.



EXTERIOR FLOODLIGHT DETAIL

DETAIL 2
 SCALE: N.T.S. E2|E5

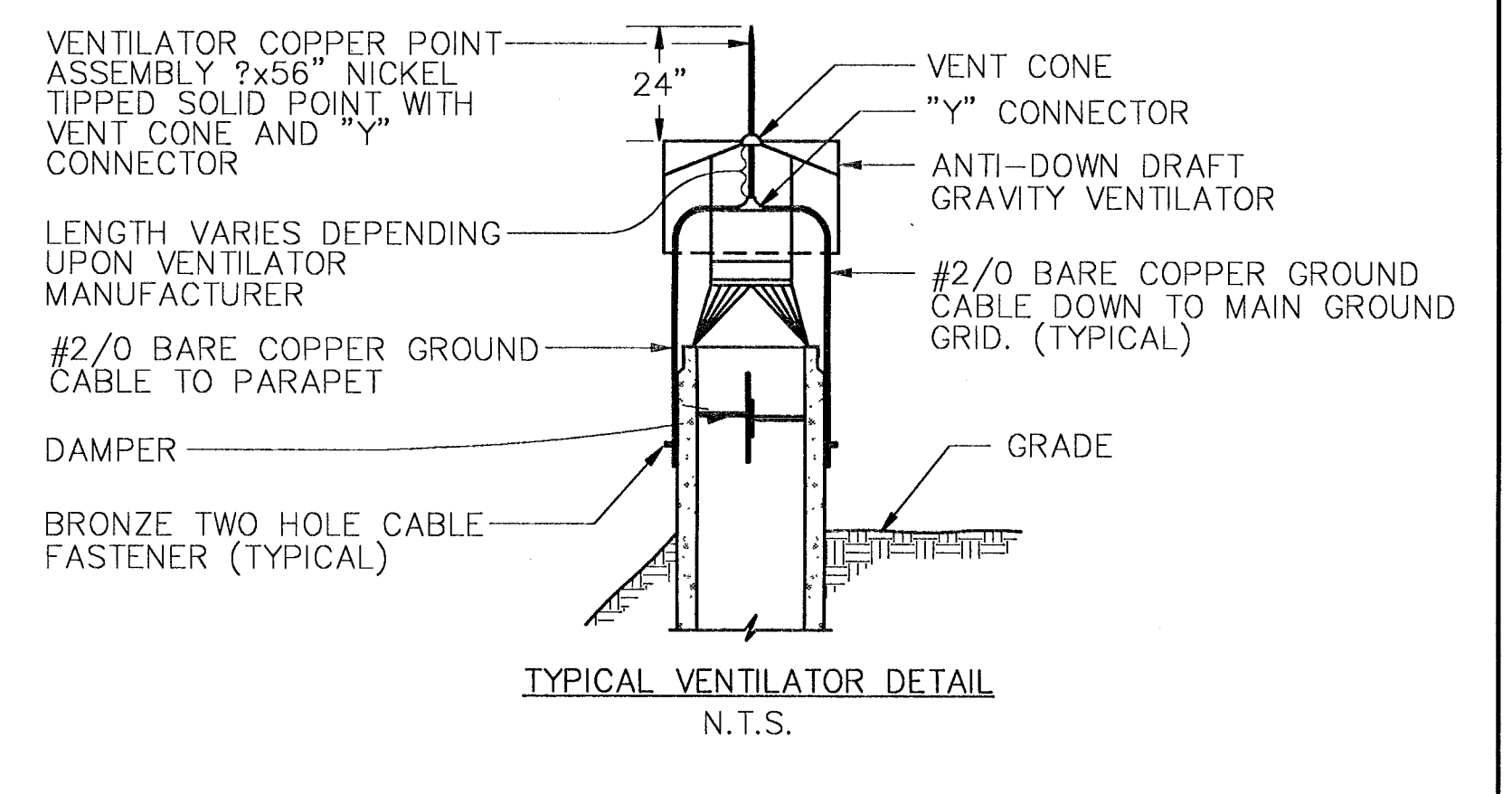
FIXTURE TYPE "B"
 FLOODLIGHT IN A CORROSION RESISTANT DIECAST ALUMINUM HOUSING TRUNNION TYPE UL-LISTED AS SUITABLE FOR OUTDOOR WET LOCATION, THE LENS IS TEMPERED GLASS SEALED & THE LAMP IS SUPPORTED BY A SHOCK RESISTANT HOLDER. AIMING CAPABILITY IS 90° IN ALL DIRECTIONS. REFLECTOR TO BE ANODIZED ALUMINUM DOOR TO BE HINGED ALUMINUM WITH GASKET AND CAPTIVE SCREWS.



EXTERIOR FLOODLIGHT DETAIL

DETAIL 3
 SCALE: N.T.S. E2|E5

VENTILATOR COPPER POINT ASSEMBLY 2x56" NICKEL TIPPED SOLID POINT WITH VENT CONE AND "Y" CONNECTOR
 LENGTH VARIES DEPENDING UPON VENTILATOR MANUFACTURER
 #2/0 BARE COPPER GROUND CABLE TO PARAPET
 DAMPER
 BRONZE TWO HOLE CABLE FASTENER (TYPICAL)



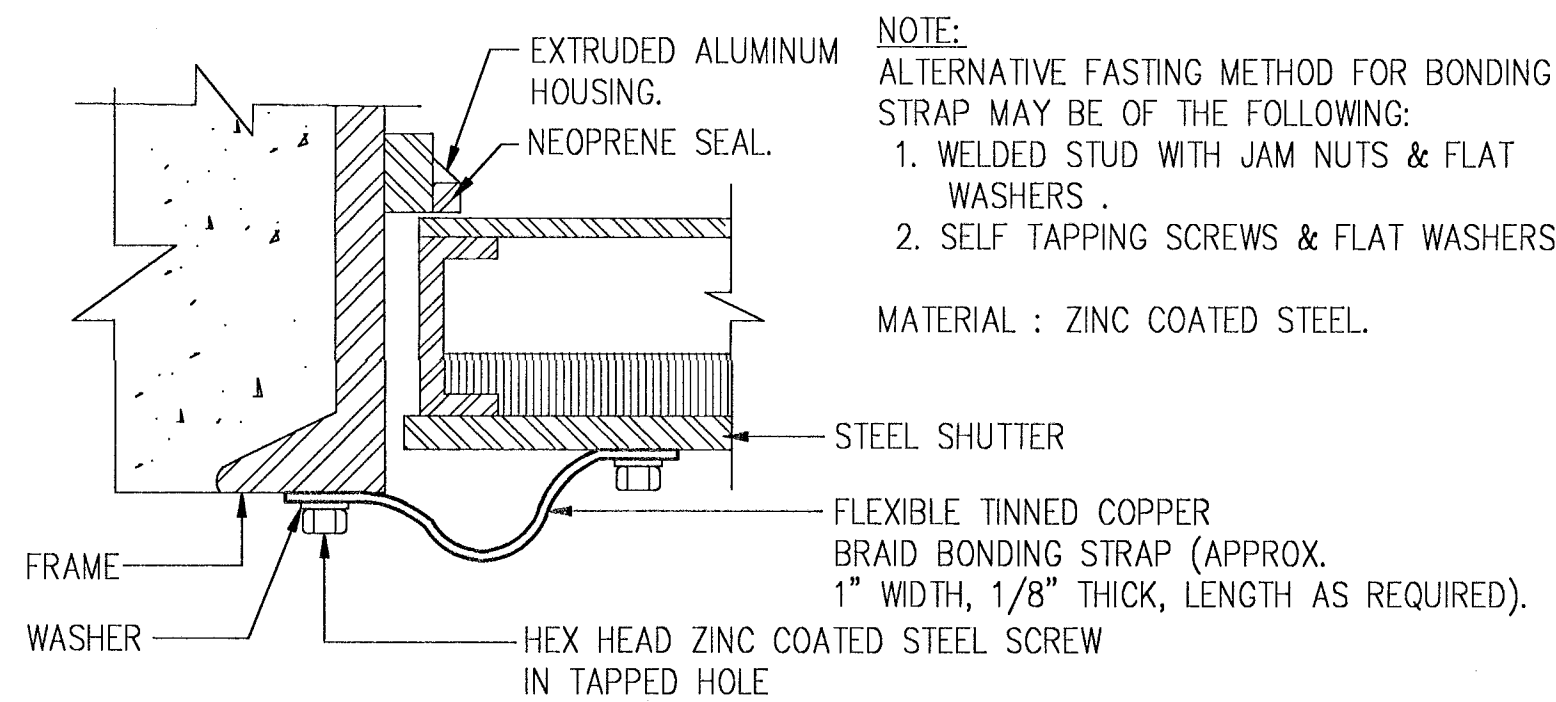
TYPICAL VENTILATOR DETAIL N.T.S.

CEILING
 4 FEET LONG SURFACE MOUNTED FLOURESCENT FIXTURE FOR HAZADOUS LOCATIONS.

- NOTES:
 1. LUMINARE SHALL MEET UL844 OR FACTORY MUTUAL STANDARD FOR HAZADOUS LOCATIONS.
 2. LUMINARE SHALL HAVE
 a) LOW TEMPERATURE BALLASTS, 34 WATT LAMPS AND 120V OPERATING VOLTAGE.
 b) TWO HEAVY DUTY IMPACT RESISTANT GLASS LAMP TUBES.
 c) FACTORY WIRED, ASSEMBLED AND SEALED.
 d) STAINLESS STEEL WIRE GUARD.
 e) HIGH STRENGTH COPPER FREE ALUMINIUM ALLOY CASTING.
 f) EXTRUDED ALUMINUM REFLECTOR WITH WHITE ACRYLIC FINISH.

INTERIOR LIGHTING FIXTURE TYPE "A"

DETAIL 1
 SCALE: N.T.S. E2|E5

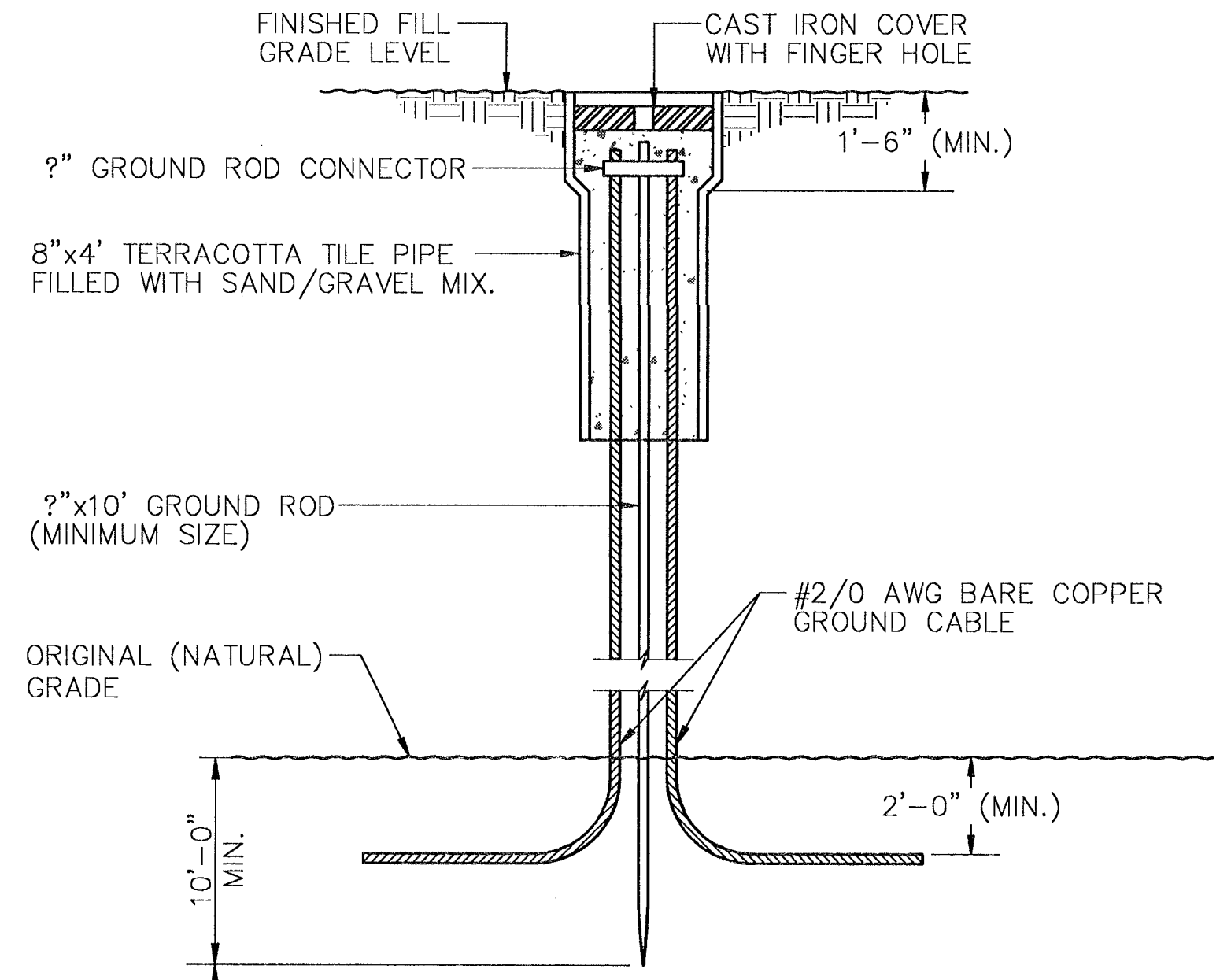


METHOD FOR BONDING SHUTTER TO FRAME

N.T.S.

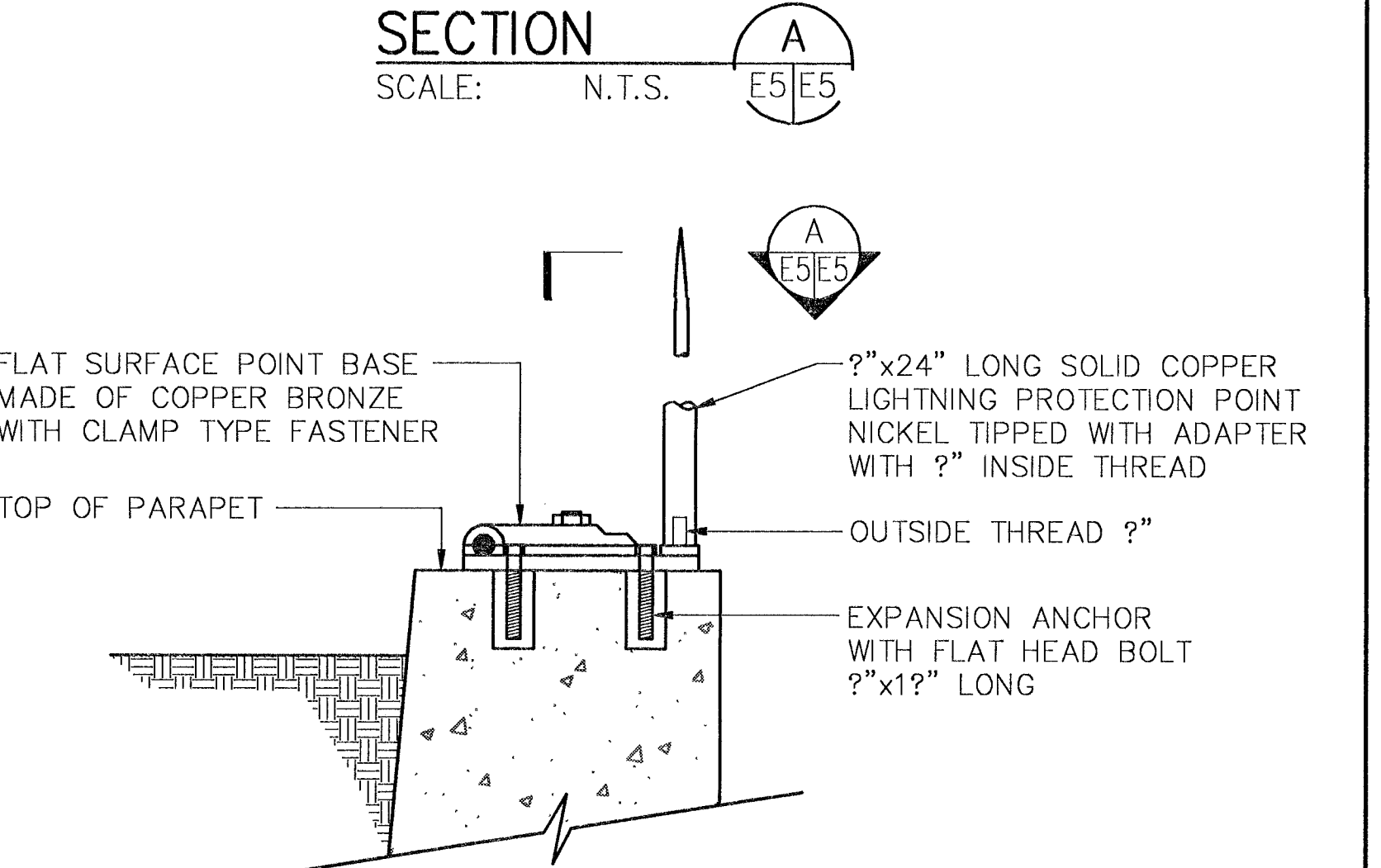
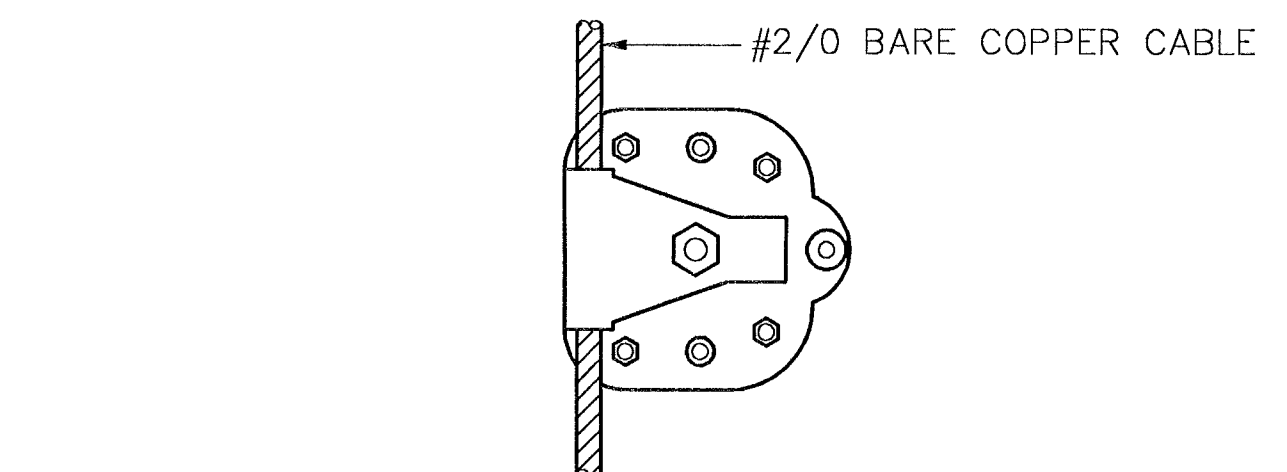
NOTE:
 ALTERNATIVE FASTING METHOD FOR BONDING STRAP MAY BE OF THE FOLLOWING:
 1. WELDED STUD WITH JAM NUTS & FLAT WASHERS.
 2. SELF TAPPING SCREWS & FLAT WASHERS.

MATERIAL: ZINC COATED STEEL.

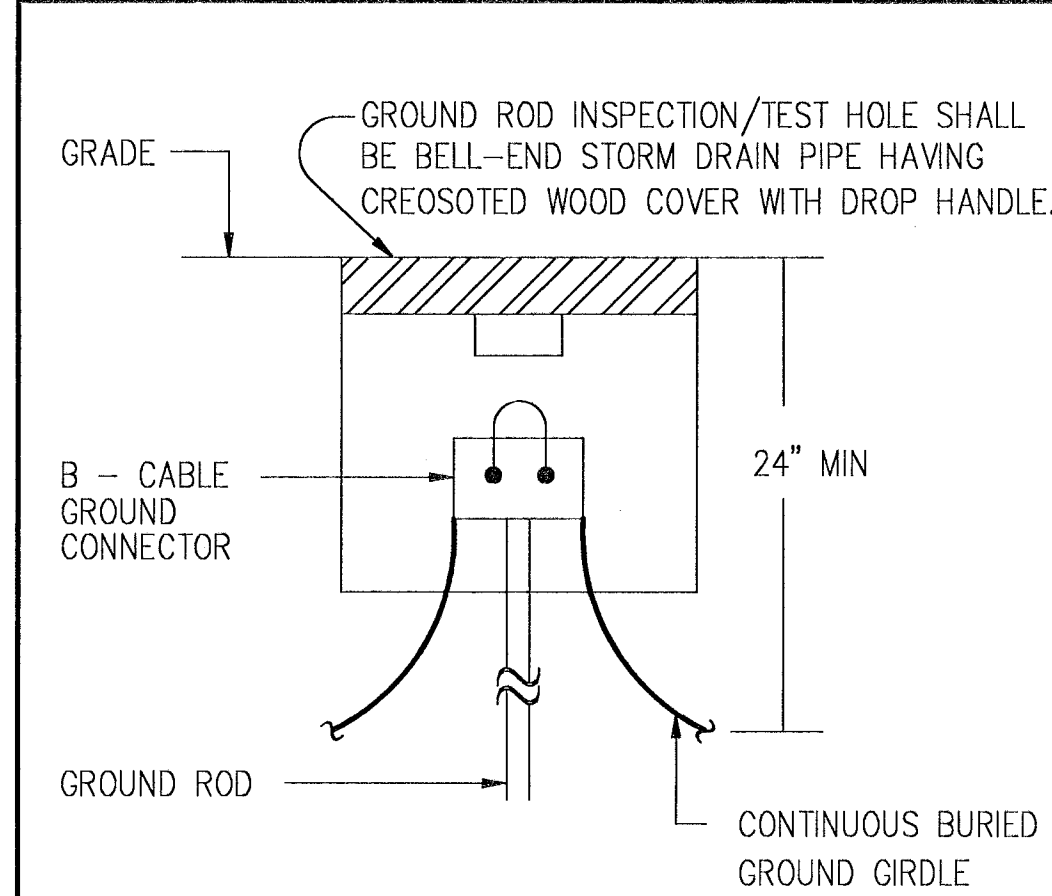


GROUND ROD INSTALLATION IN EARTH FILL

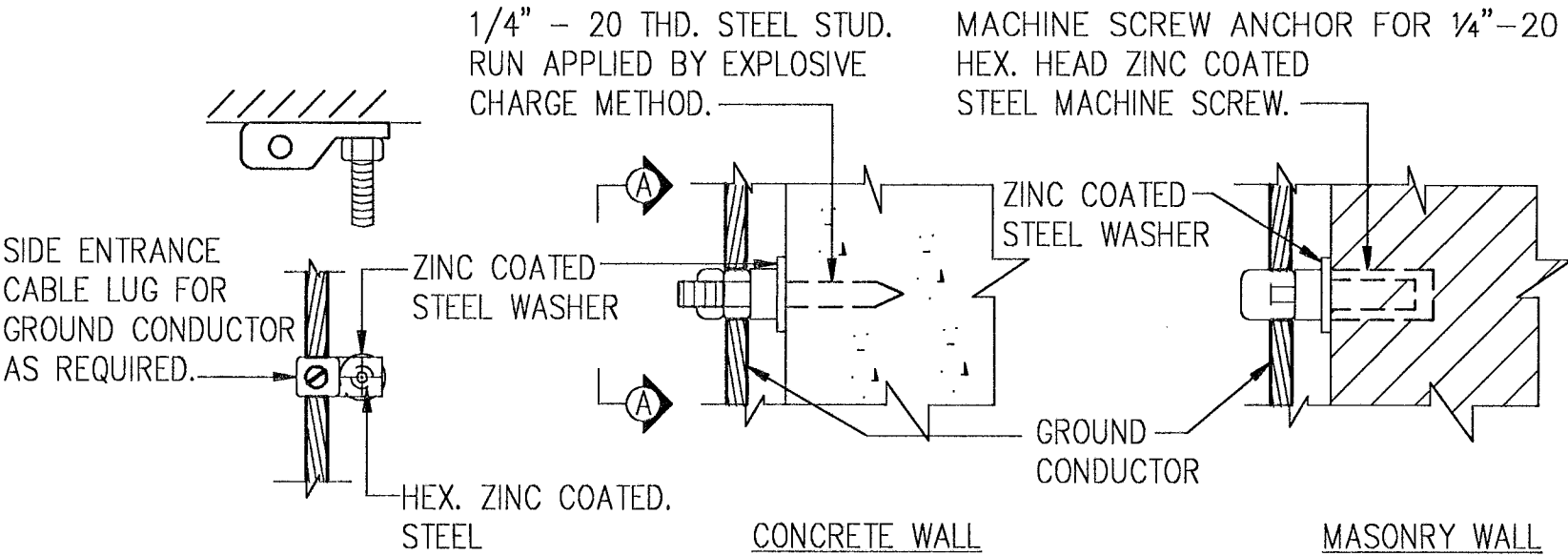
DETAIL 6
 SCALE: N.T.S. E4|E5



DETAIL 7
 SCALE: N.T.S. E4|E5

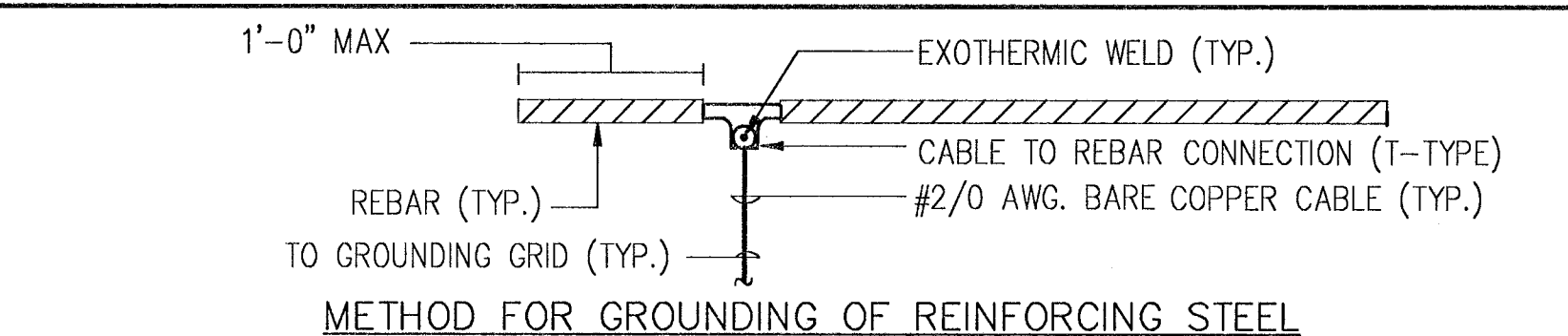


DETAIL 4
 SCALE: N.T.S. E4|E5



METHOD FOR SUPPORTING GROUND CONDUCTORS ON WALLS

N.T.S.



DETAIL 5
 SCALE: N.T.S. E4|E5

IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014 DATE: 27/5/97				
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350				
NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' ELECTRICAL DETAILS				
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	E-5	
D	80091	6,448,587		
SCALE	AS NOTED	CONTRACT NO	SHEET 33 OF 34	
CATEGORY CODE		SPEC NO		

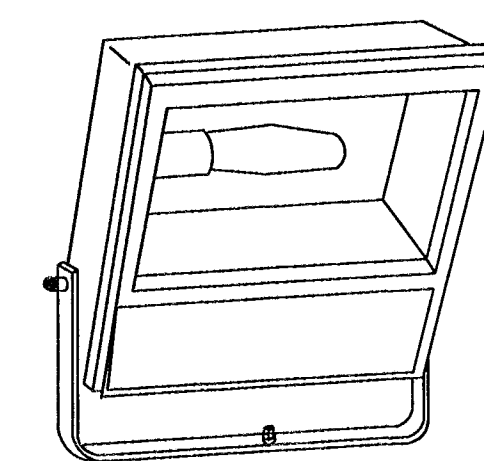
PROVIDE 90A, MCB.

POWER PANEL P1 SCHEDULE

277/480_VOLT_3_PHASE_4_WIRE SN. 100_A.BUS AND ___GND. BUS

LUG LOCATION ___CABINET ___MIN. S.C. ___A.SYM.

CIR. NO.	DESCRIPTION OF LOAD	AMPS	KW.	H.P.	CIRCUIT BREAKER			REMARKS
					FRAME SIZE	TRIP SIZE	POLES	
1	DOOR #1	4.8		3	100	20	3	
2	DOOR #2	4.8		3	100	20	3	
3	DOOR #3	4.8		3	100	20	3	
4	DOOR #4	4.8		3	100	20	3	
5	DOOR #5	4.8		3	100	20	3	
6	15 KVA XFMR.	18.1	15		100	25	3	
7	SPARE				100	20	3	
8	SPARE				100	20	3	
9	SPARE				100	20	3	
10	SPARE				100	20	3	

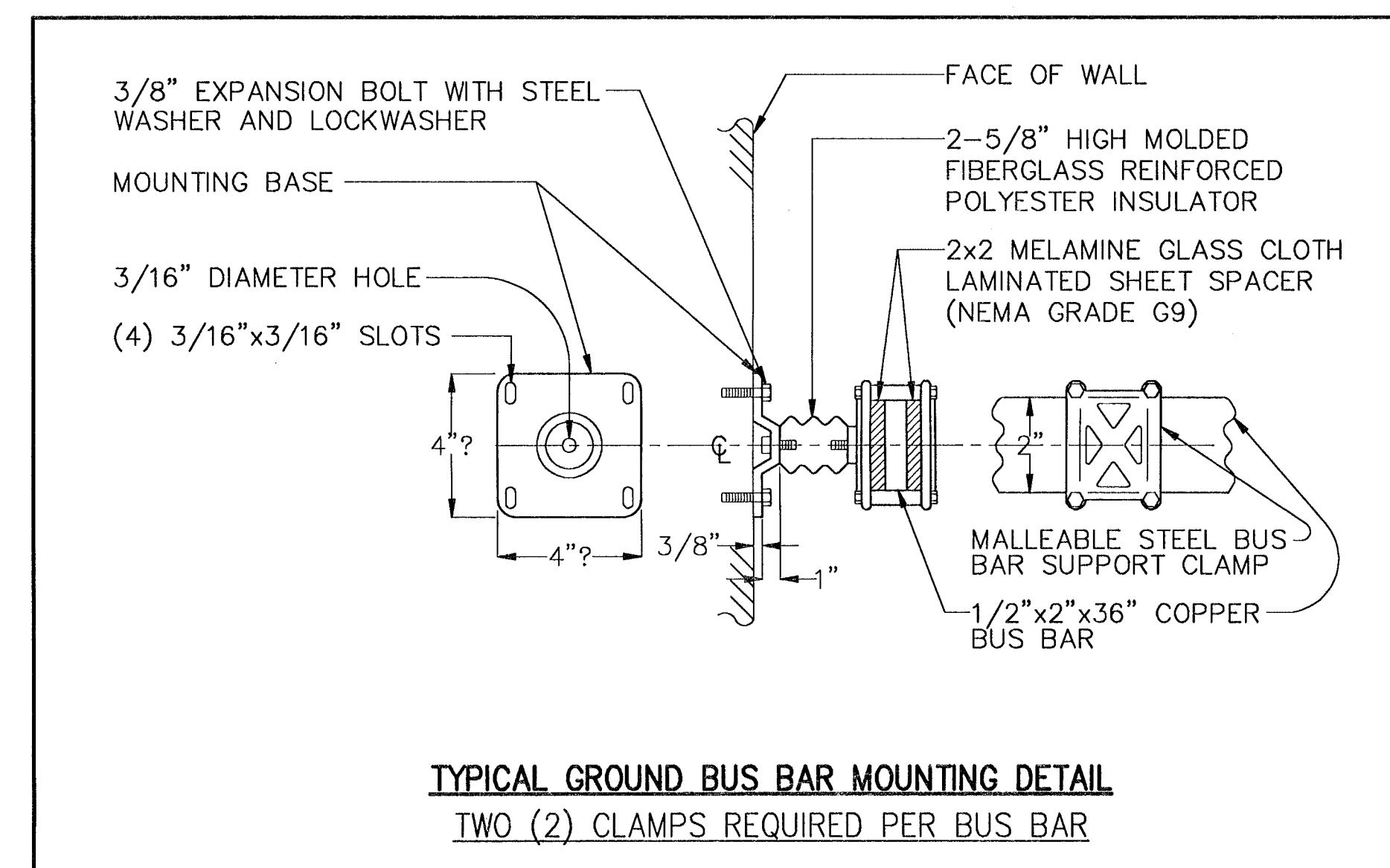


NOTE:
NEMA BEAM SPREAD CONFIGURATION SHALL BE AS SPECIFIED AND SHALL BE IN ACCORDANCE WITH I.E.S. DEFINITIONS.

LUMINAIRE REQUIREMENTS

1. HOUSING - DIE CAST ALUMINUM.
2. REFLECTOR - ANODIZED OR ALZAK ALUMINUM.
3. DOOR - HINGED ALUMINUM, WITH GASKET AND CAPTIVE SCREWS.
4. INTEGRAL MULTI-TAP BALLAST.
5. STAINLESS STEEL OR NONCORROSIVE HARDWARE.
6. PORCELAIN SOCKET.
7. MINIMUM 36" 3/C #14 "SO" CORD.
8. UL "WET LABEL"

**FIXTURE TYPE "B"
FLOODLIGHT DETAIL**



LIGHTING PANEL NO. P2 120/208_V. 3ø_4_W + GRD ___A. SYM.I.C.

MAINS 100_AMP. MAINBREAKER 100_AMP.

LOCATION OR DESCRIPTION	LOAD IN WATTS	CKT BKR AMP	CKT NO.	CKT NO.	CKT BKR AMP	LOAD IN WATTS	LOCATION OR DESCRIPTION
SPARE		20	1	2	20		SPARE
EXT. LIGHTING	1200	20	3	4	20	200	EXT. RECEP.TS.
EXT. LIGHTING	1200	20	5	6	20	200	EXT. RECEP.TS.
SPARE		20	7	8	20	1100	INT. LIGHTING
INT. LIGHTING	1100	20	9	10	20	1100	INT. LIGHTING
INT. LIGHTING	1100	20	11	12	20	1100	INT. LIGHTING

IF SHEET IS LESS THAN
(22" x 34")
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY

SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014 DATE: 27/5/97 PRINCIPAL ENGINEER: <i>R. Brady</i> ENGINEER IN CHARGE: <i>R. Brady</i> BRANCH MANAGER: <i>M. Mansour</i> DIVISION DIRECTOR: <i>R. Brady</i>		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING HSILS BOX MAGAZINE TYPE 'D' PANEL SCHEDULES & DETAIL		
FIRE PROTECTION ENGINEER	DATE	SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER
CRITERIA MANAGER	DATE	D	80091	6,448,588
APPROVED	DATE	SCALE	AS NOTED	CONTRACT NO
TITLE	DATE	CATEGORY CODE	FOR COMMANDER NAVFACENCOM	SPEC NO
				SHEET 34 OF 34