

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.
- 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.
- 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-14 & S-15.
- 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.
- 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.

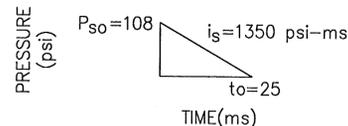
WIND LOADS:

NAVFAC DM-2.02, 132 MPH PEAK VELOCITY

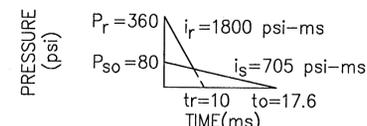
BLAST LOADS:

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 $2W \frac{1}{3}$ TO THE REAR OF THE ACCEPTOR MAGAZINE.
- B. HEADWALL: DONOR MAGAZINE LOCATED AT $2W \frac{1}{3}$ TO THE FRONT OF THE ACCEPTOR MAGAZINE.



ROOF LOADING



HEAD WALL LOADING

STANDARD DRAWING NOTE:
THIS DRAWING SET, NAVFAC DRAWING S 6448522 THRU 6448554, WAS APPROVED AS THE STANDARD 7-BAR EARTH COVERED MAGAZINE DESIGN FOR THE TYPE D BOX MAGAZINE 27 MAY 1997

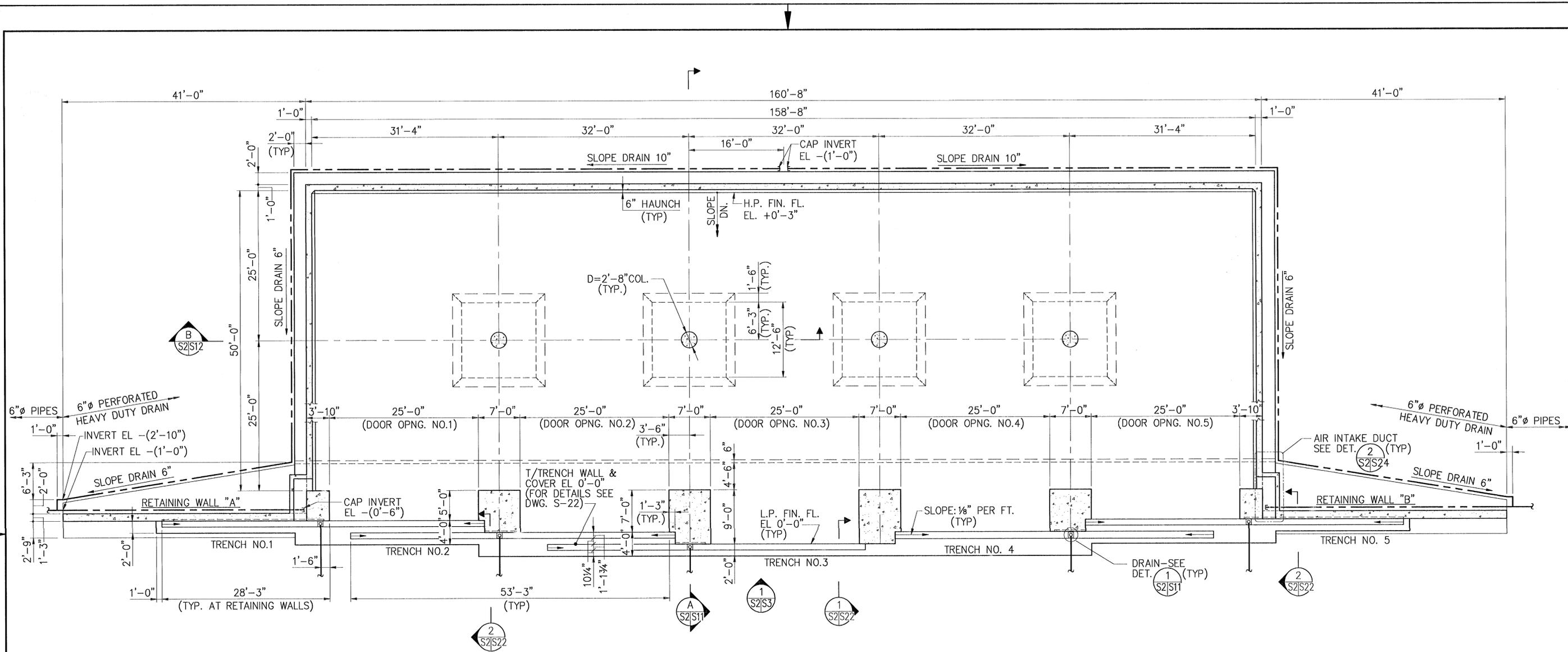
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

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 MORTON ST., NEW YORK, NY 10014 27/5/97 DATE						
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350						
NAVAL FACILITIES ENGINEERING COMMAND						
STANDARD DRAWING						
STANDARD BOX MAGAZINE TYPE 'D'						
GENERAL NOTES						
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	6,448,522		S-1	
SCALE	NONE	CONTRACT NO			SHEET 1 OF 33	
CATEGORY CODE		SPEC NO				



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

NOTES:

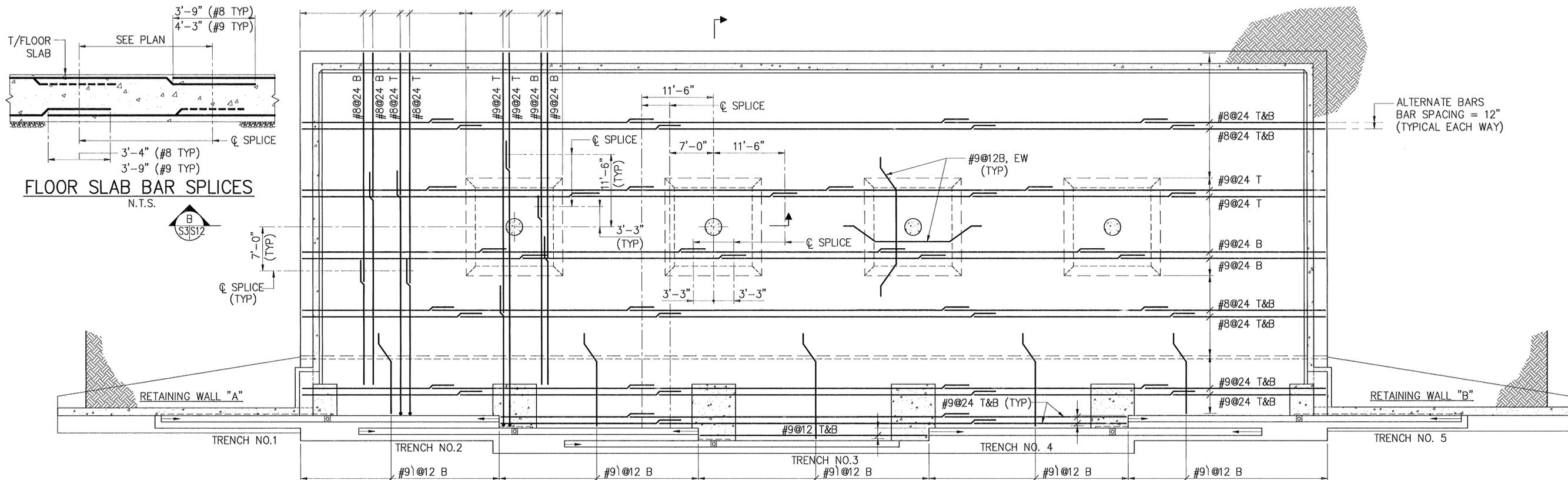
- DATUM ELEVATION 0'-0" TAKEN AS TOP OF TRENCH WALL AND TOP OF TRENCH COVER. FOR ACTUAL ELEVATION SEE CIVIL DRAWINGS.
- FOR CONTINUATION OF BUILDING DRAINS SEE CIVIL DRAWINGS.

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

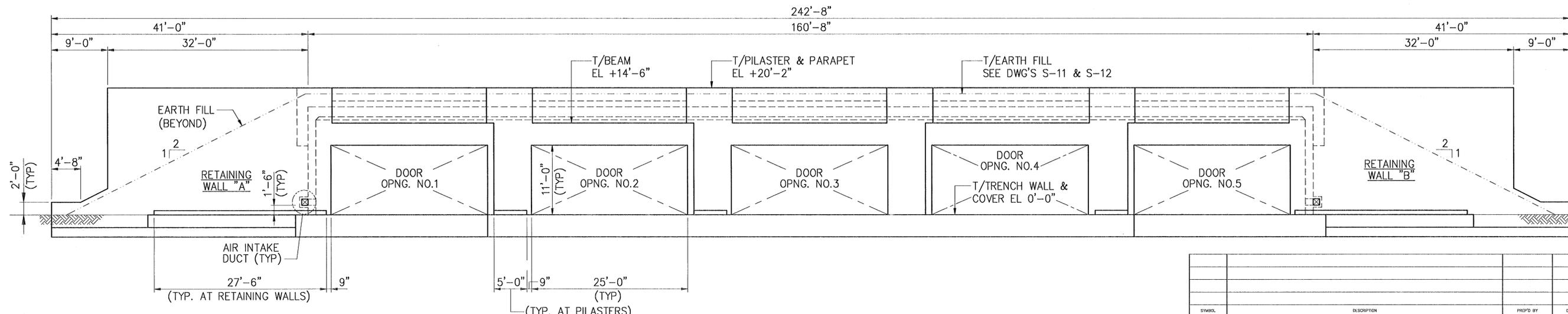
4' 0 10' 20'

1/8" = 1'-0"

SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 WORTON ST., NEW YORK, NY 10014 DATE: 27/5/97 PROJECT: (S2S22)						
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' FLOOR PLAN (W/O PLATFORM)						
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	SHEET 2 OF 33			
D	80091	6,448,523	S-2			
SCALE	AS NOTED	CONTRACT NO	SPEC NO			
CATEGORY CODE						

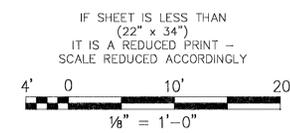


FLOOR PLAN
SCALE: 1/8" = 1'-0"

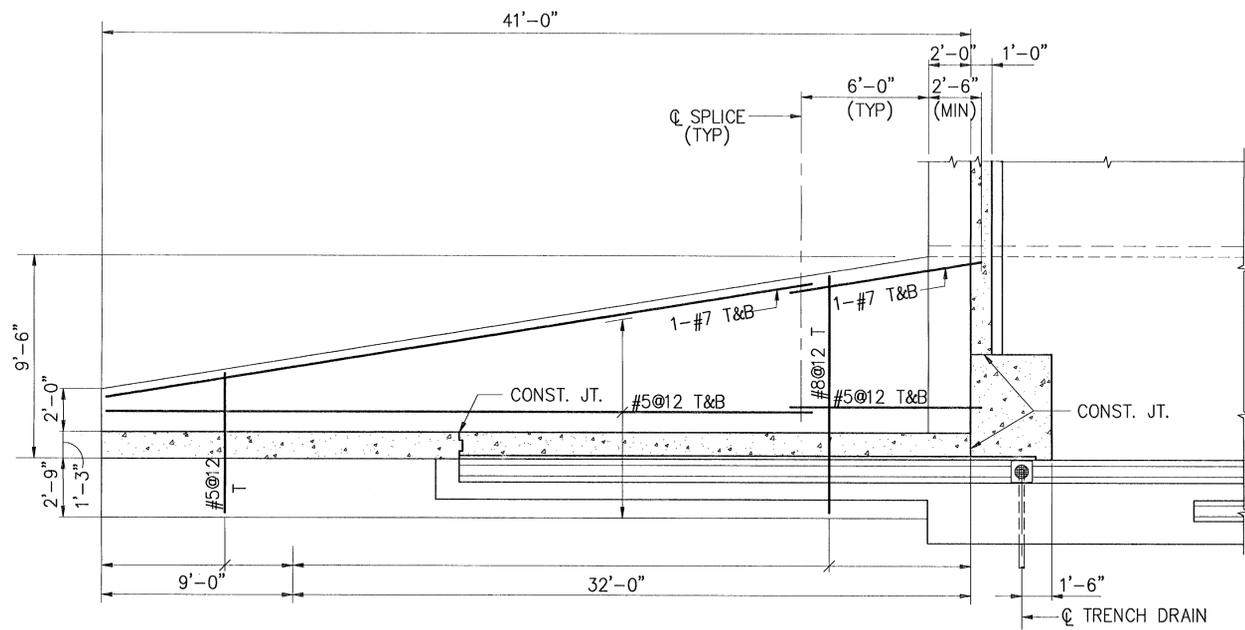


ELEVATION
SCALE: 1/8" = 1'-0"

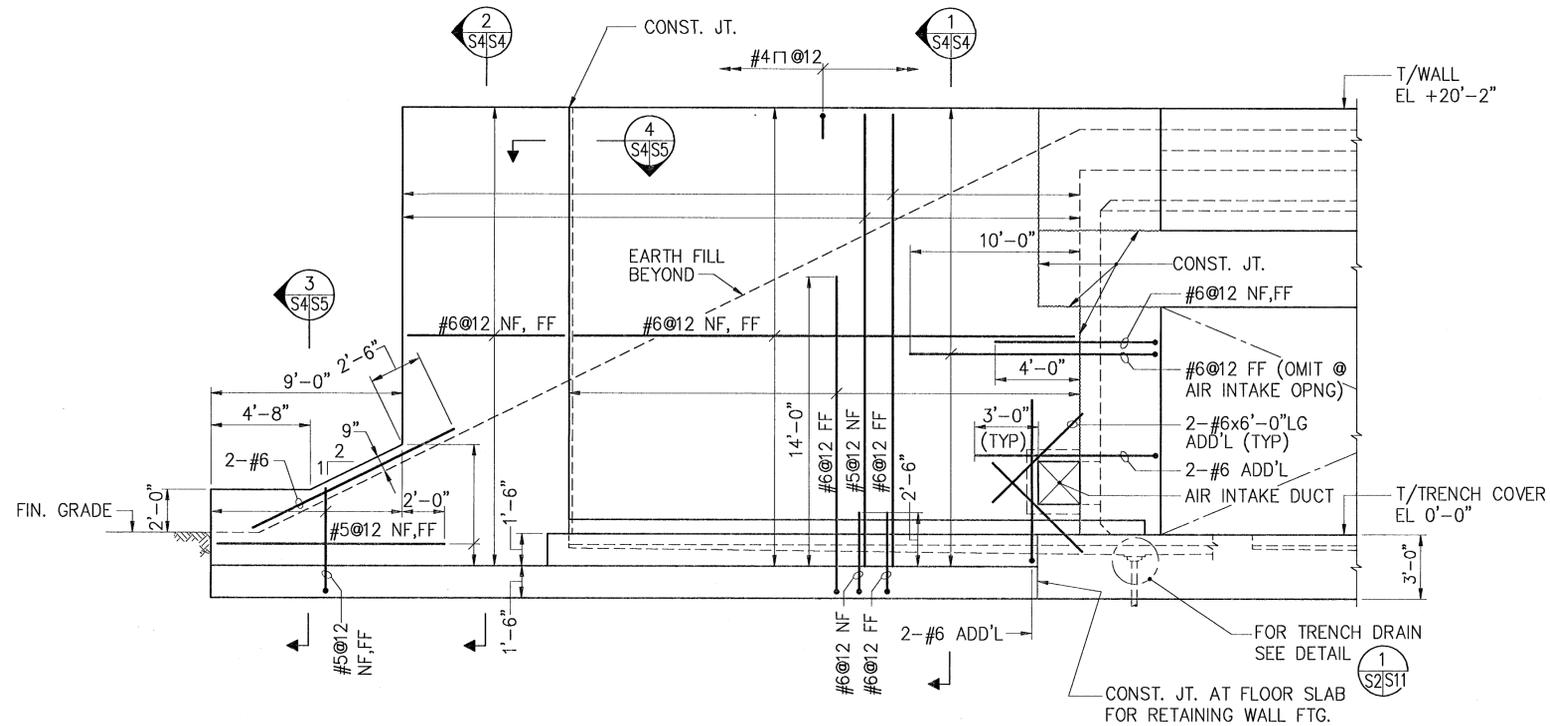
- NOTES:
- FOR "RETAINING WALL ELEVATION" SEE DWG. S-4.
 - FOR ADDITIONAL REINFORCING AT DOOR TRENCHES SEE DWG'S S-14 & S-15.
 - FOR STAGGERED SPLICES: BAR SPLICE INDICATED THUS  ALTERNATE BAR SPLICE INDICATED THUS  SEE SECTION "FLOOR SLAB BAR SPLICES" THIS DWG.



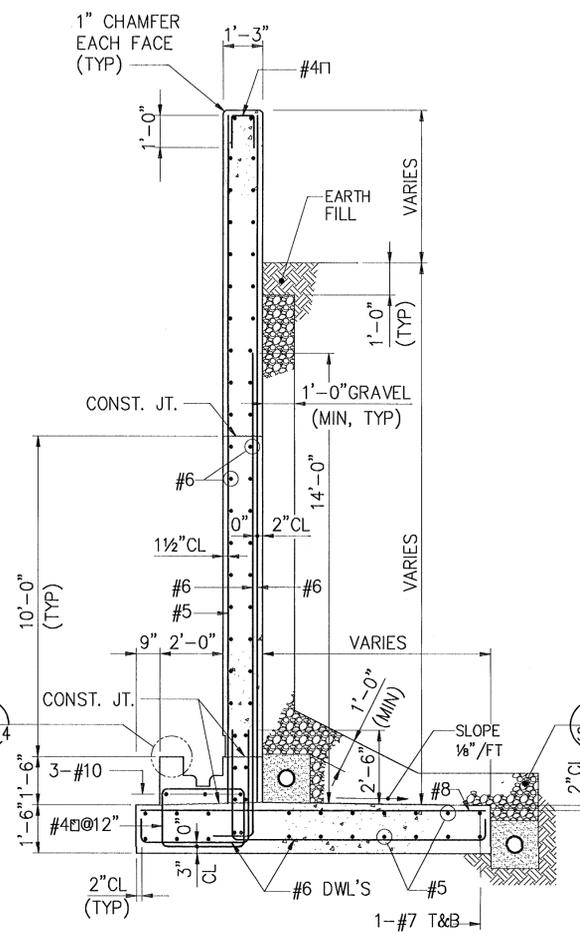
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REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 85 HUDSON ST., NEW YORK, NY 10014				
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND WASHINGTON, D.C. 20350				
STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' FLOOR PLAN & HEADWALL ELEVATION (W/O PLATFORM)				
DATE	27/5/97			
ENGINEER IN CHARGE	R. Brady	BRANCH MANAGER		
CHECKED	R. Brady	DIVISION DIRECTOR		
DATE		DATE		
APPROVED		DATE		
SHEET 3		OF 3.3		



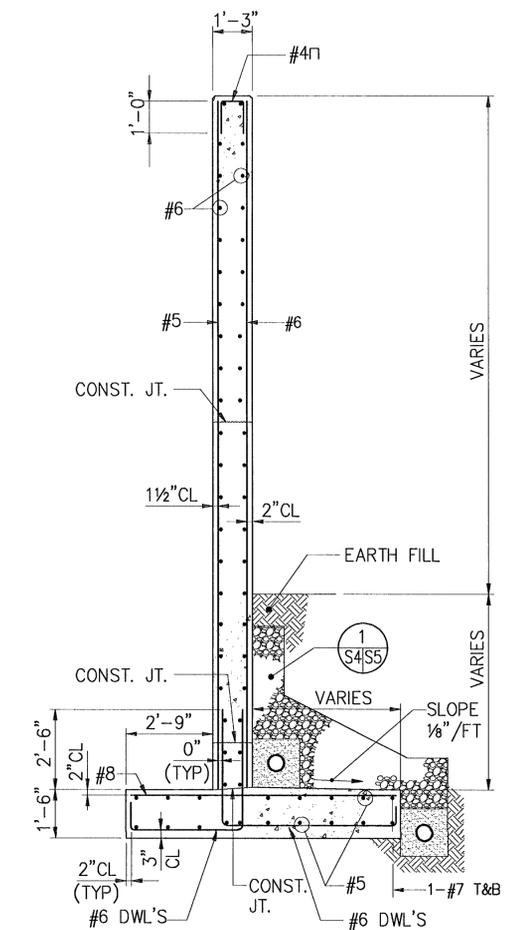
FOUNDATION PLAN
 (RETAINING WALL "A" AS SHOWN)
 (RETAINING WALL "B" OPP. HAND)
 SCALE: 1/4"=1'-0"



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

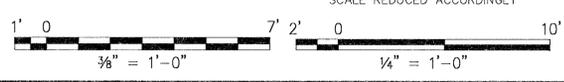


SECTION 1
 SCALE: 3/8"=1'-0"

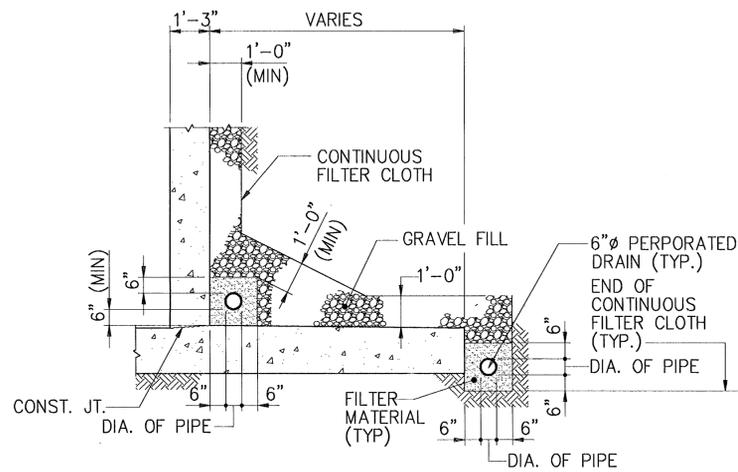


SECTION 2
 SCALE: 3/8"=1'-0"

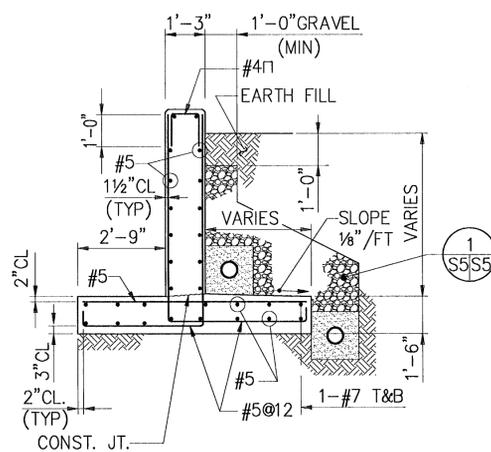
NOTE: FOR ALTERNATE EARTH FILL DRAINAGE SYSTEM SEE DWG. S-13.



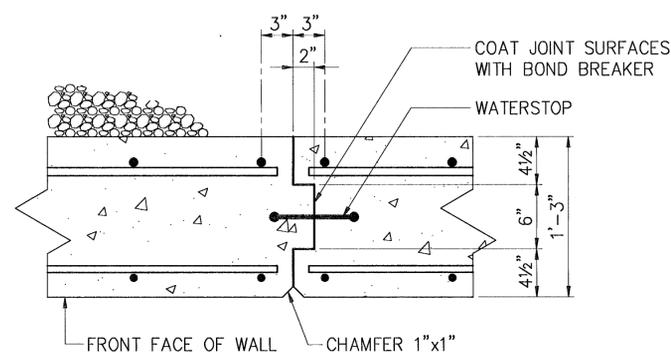
SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 98 MORTON ST., NEW YORK, NY 10014 DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350				
NAVAL FACILITIES ENGINEERING COMMAND				
STANDARD DRAWING				
STANDARD BOX MAGAZINE TYPE 'D'				
RETAINING WALL ELEVATION & SECTIONS (W/O PLATFORM)				
SIZE	CODE (CONT. NO.)	NAVFAC DRAWING NUMBER	S-4	
D	80091	6,448,525		
SCALE	AS NOTED	CONTRACT NO.	SHEET 4 OF 33	
CATEGORY CODE		SPEC NO.		



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



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



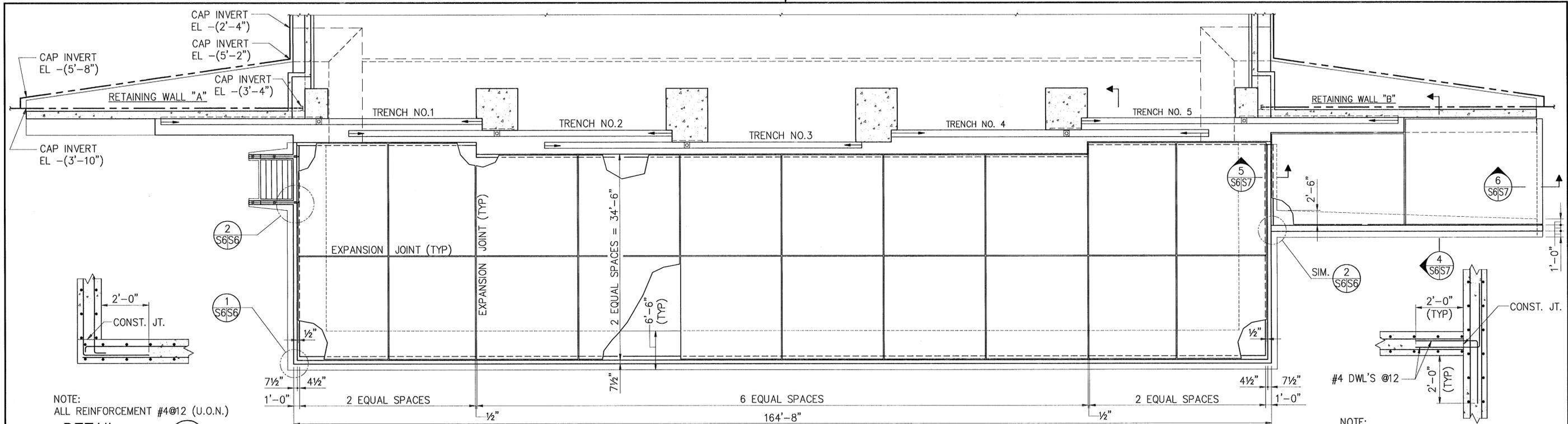
SECTION 4
 SCALE: 1 1/2" = 1'-0" S4/S5

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 96 WILTON ST., NEW YORK, NY 10014 DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350				
NAVAL FACILITIES ENGINEERING COMMAND				
STANDARD DRAWING				
STANDARD BOX MAGAZINE TYPE 'D'				
RETAINING WALL SECTIONS (W/O PLATFORM)				
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	S-5	
D	80091	6,448,526		
SCALE	AS NOTED	CONTRACT NO	SHEET 5	
CATEGORY CODE		SPEC NO	OF 33	



NOTE:
ALL REINFORCEMENT #4@12 (U.O.N.)

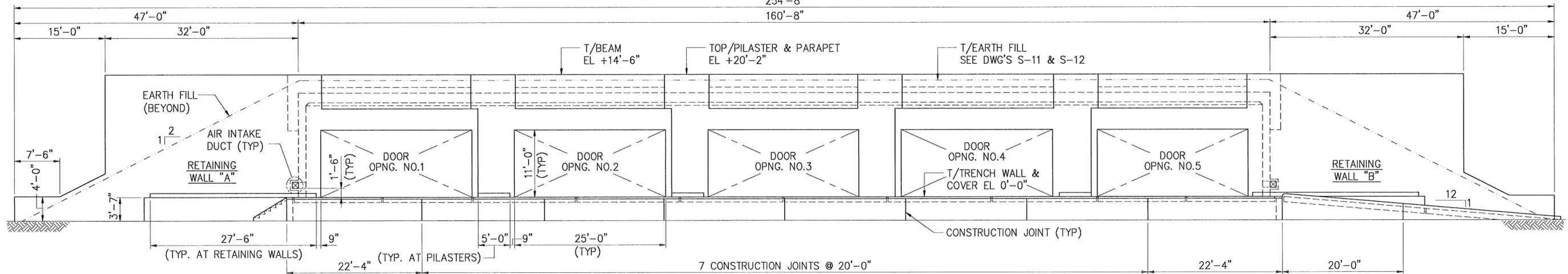
DETAIL 1
SCALE: 1/2"=1'-0"
S6/S6

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

- NOTES:
1. PROVIDE CONSTRUCTION JOINT MID-WAY ALONG THE LENGTH OF SIDE PLATFORM RETAINING WALLS SEE DETAIL THIS DRAWING.
 2. FOR MAGAZINE FLOOR PLAN SEE DRAWING S-2.

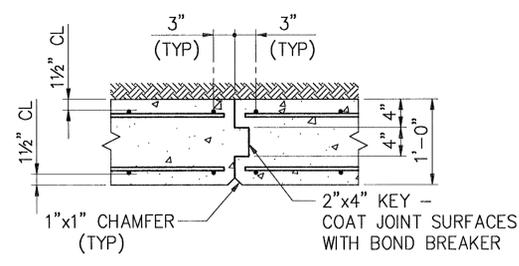
NOTE:
ALL REINFORCEMENT #4@12 (U.O.N.)

DETAIL 2
SCALE: 1/2"=1'-0"
S6/S6

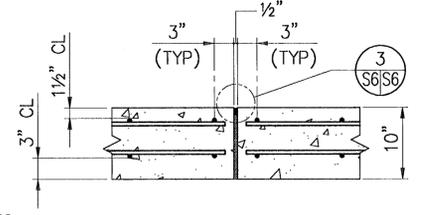


ELEVATION 1
SCALE: 1/8"=1'-0"
S6/S6

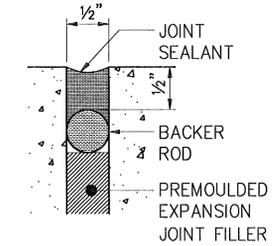
- NOTES:
1. FOR "RETAINING WALL ELEVATION" SEE DWG. S-8.
 2. STAIR RAILING NOT SHOWN FOR CLARITY.
 3. FOR ELECTRICAL BONDING CONSTRUCTION AND EXPANSION JOINTS, SEE DWG. E-4.



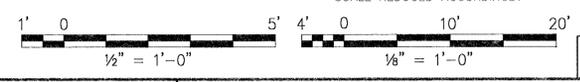
CONSTRUCTION JOINT IN PLATFORM RETAINING WALL
N.T.S.



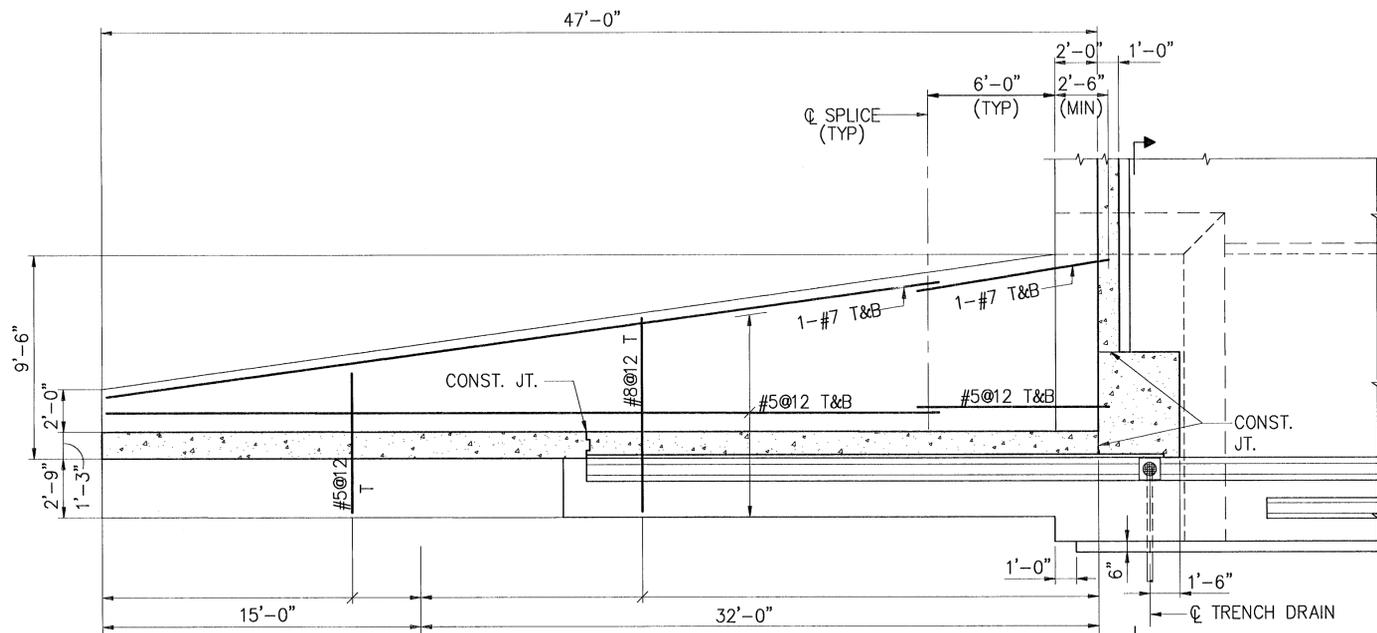
EXPANSION JOINT IN PLATFORM SLAB-ON-GRADE
N.T.S.



DETAIL 3
N.T.S.
S6/S6



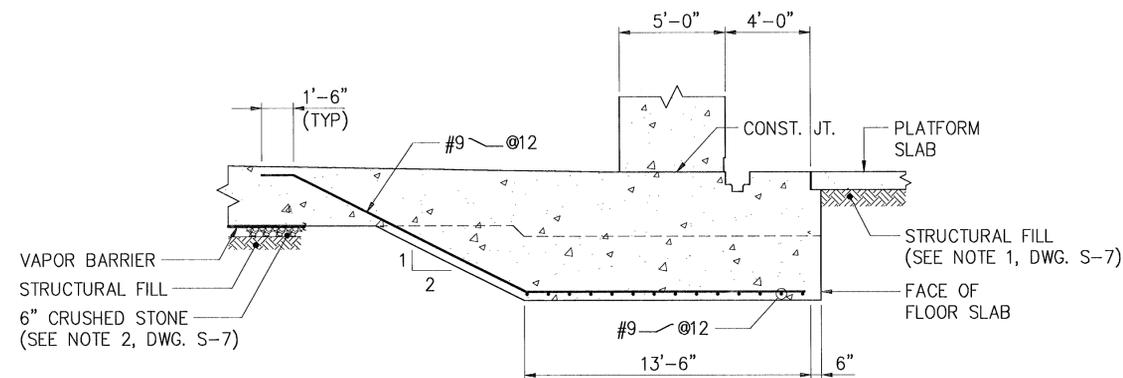
SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014						
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND WASHINGTON, D.C. 20350						
STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' FLOOR PLAN & HEADWALL ELEVATION (W/PLATFORM)						
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER				
D	80091	6,448,527				
SCALE	AS NOTED	CONTRACT NO				
		SPIC NO				
SHEET 6 OF 33						



NOTE:
PLATFORM OMITTED FOR CLARITY.

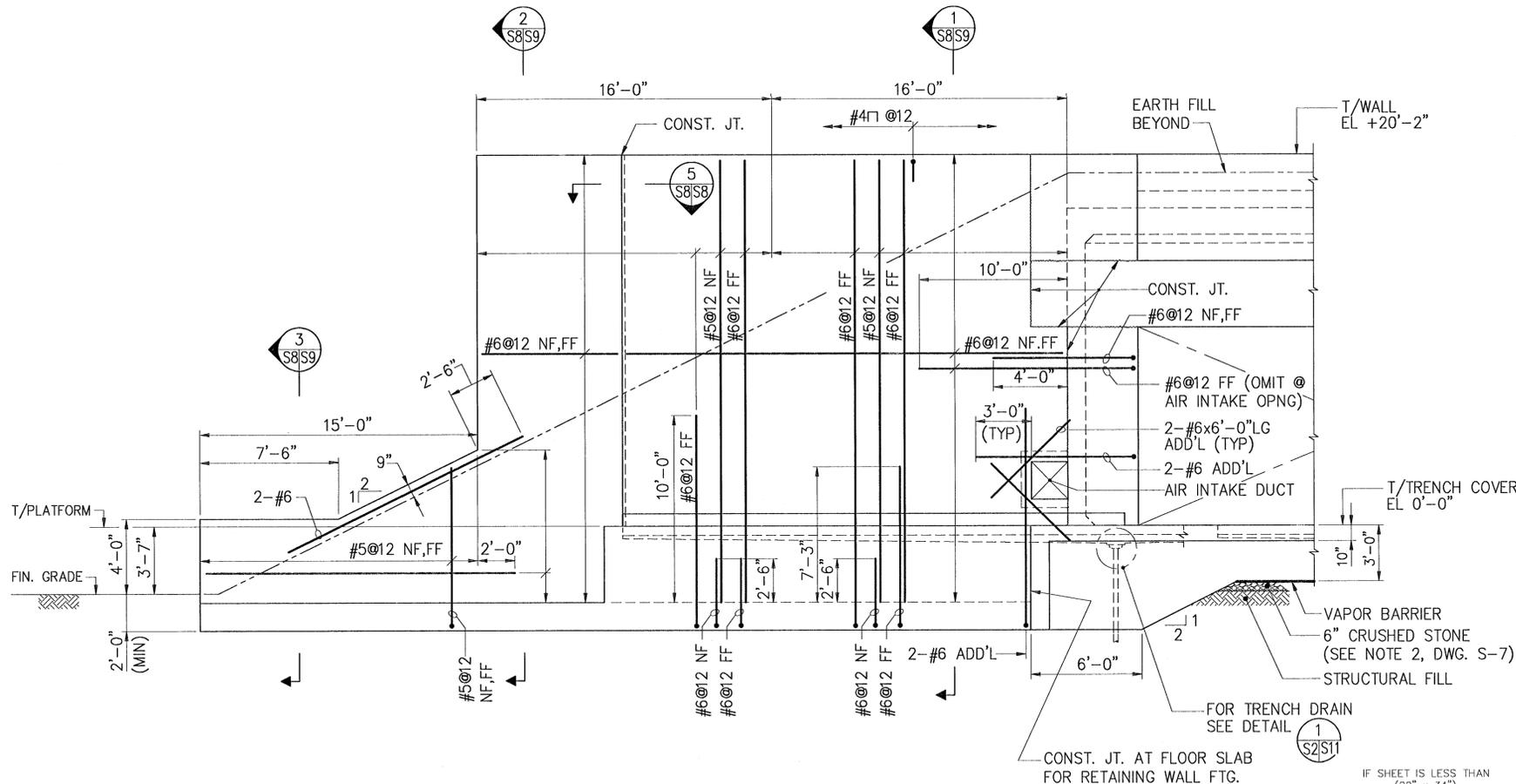
FOUNDATION PLAN

(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.

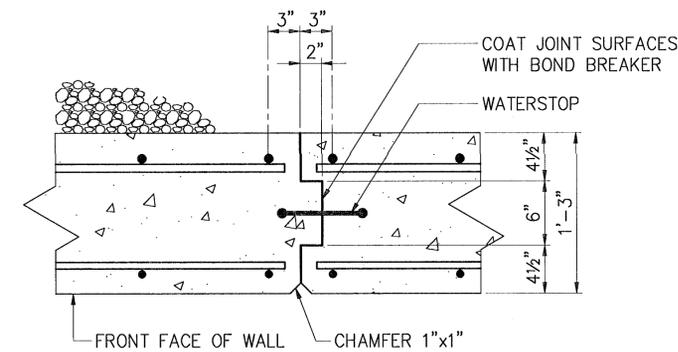
SECTION 4
SCALE: 1/4" = 1'-0"



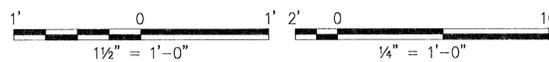
NOTE:
PLATFORM OMITTED FOR CLARITY.

ELEVATION - RETAINING WALL "A"

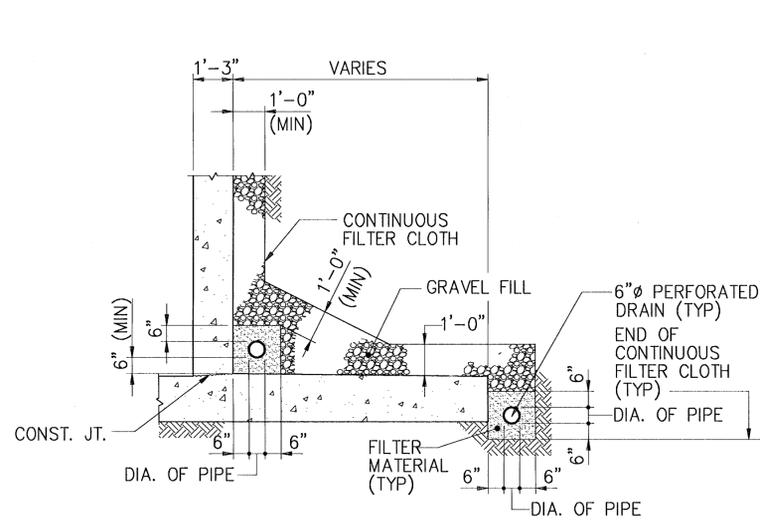
(RETAINING WALL "B" OPP. HAND)
SCALE: 1/4" = 1'-0"



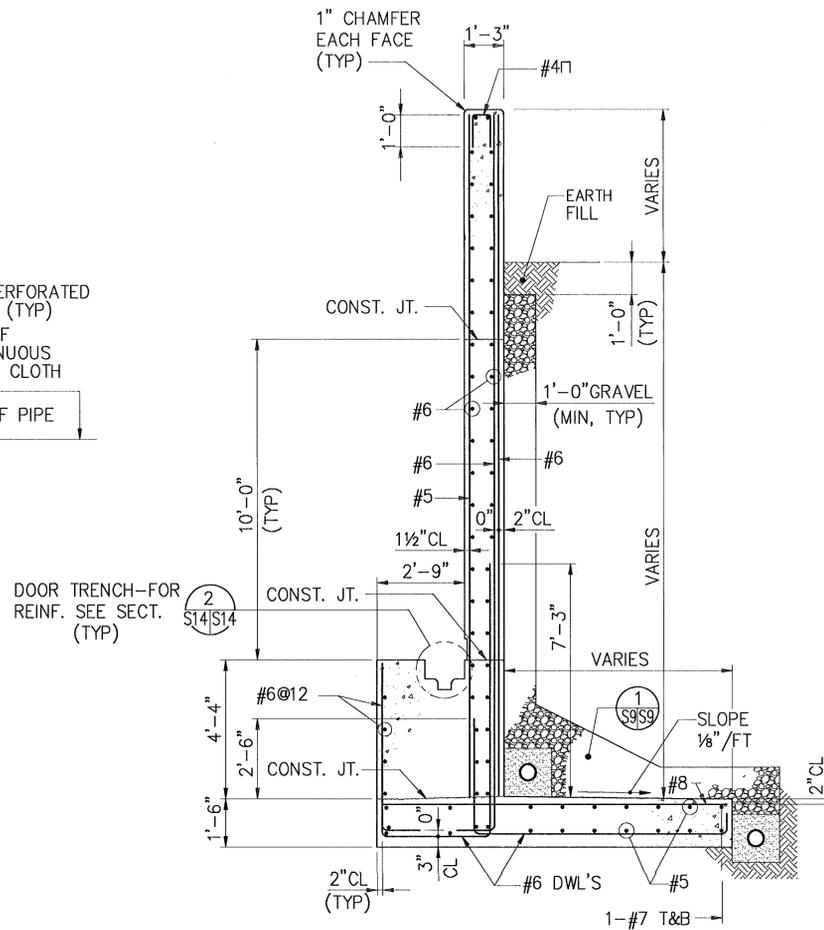
SECTION 5
SCALE: 1 1/2" = 1'-0"



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						
STANDARD BOX MAGAZINE TYPE 'D'						
RETAINING WALL ELEVATION & SECTIONS (W/PLATFORM)						
SIZE	CODE BENT NO	NAVFAC DRAWING NUMBER			S-8	
D	80091	6,448,529			SHEET 8 OF 33	
SCALE	AS NOTED	CONTRACT NO				
CATEGORY CODE		SPEC NO				

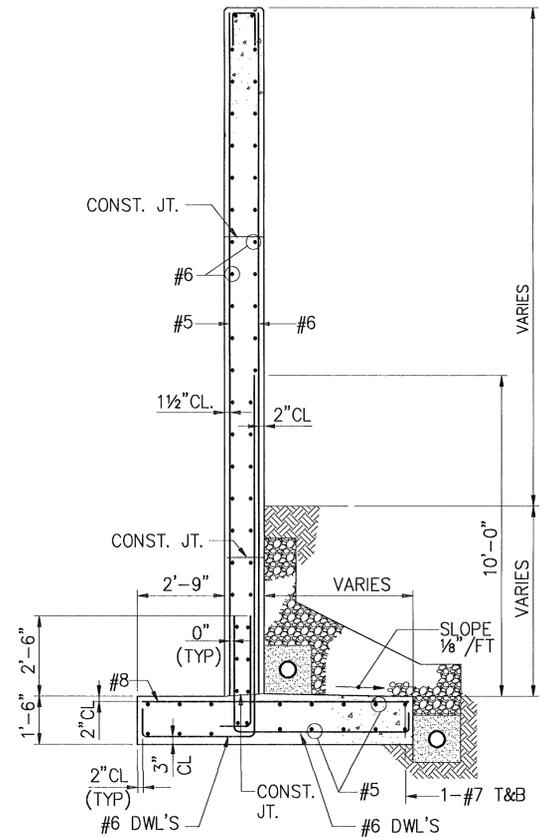


DETAIL 1
SCALE: 3/8" = 1'-0"
(TYPICAL 6"Ø PERFORATED DRAIN)

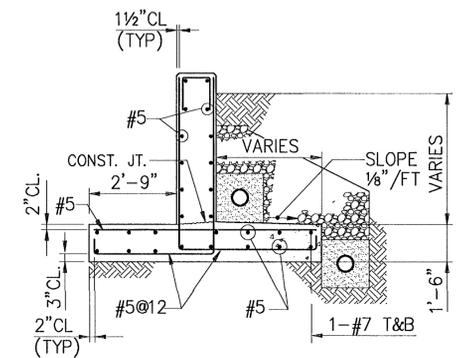


SECTION 1
DOOR TRENCH-FOR REINF. SEE SECT. (TYP.)

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



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



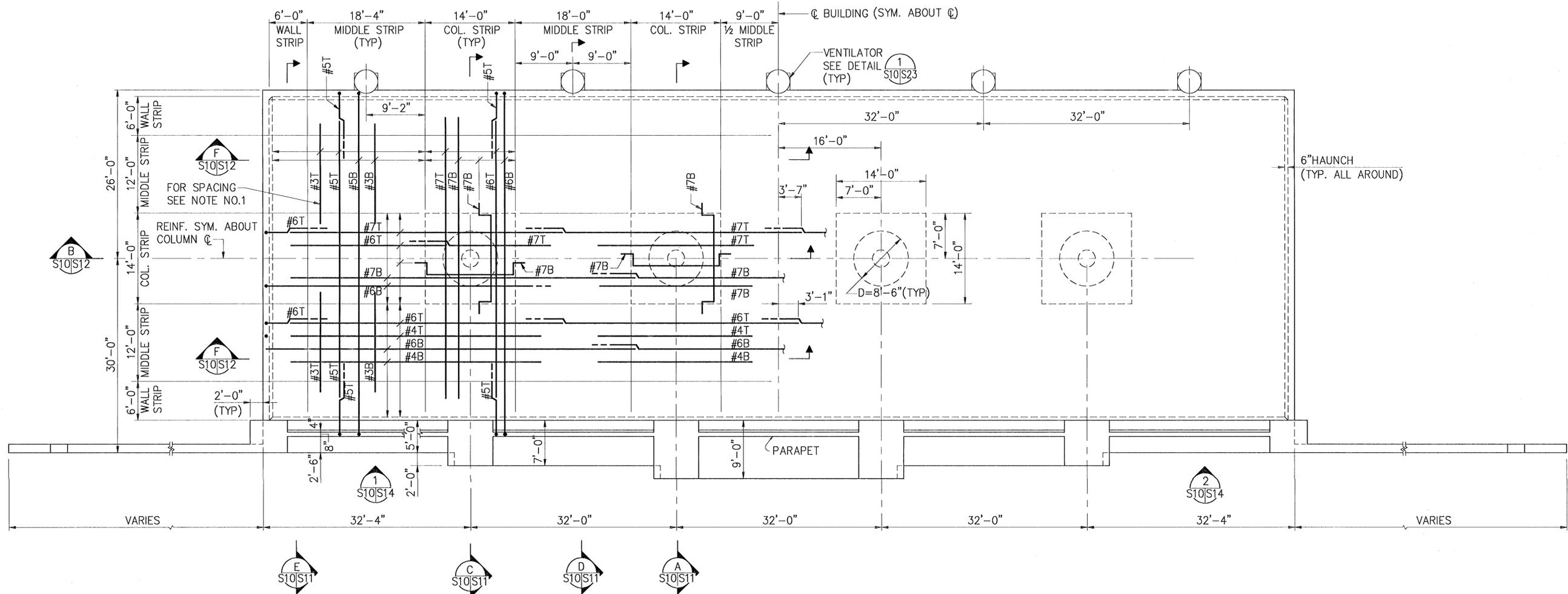
SECTION 4
SCALE: 3/8" = 1'-0"

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

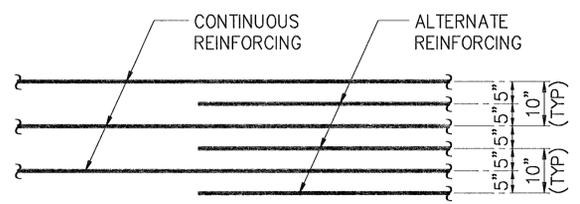
1' 0" 7'
3/8" = 1'-0"

SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 86 MORTON ST., NEW YORK, NY 10014 DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' RETAINING WALL SECTIONS (W/PLATFORM)				
SIZE	CODE IDENT NO	NAVAAC DRAWING NUMBER	S-9	
D	80091	6,448,530		
SCALE	AS NOTED	CONTRACT NO	SHEET 9 OF 33	
CATEGORY CODE		SPEC NO		



ROOF PLAN

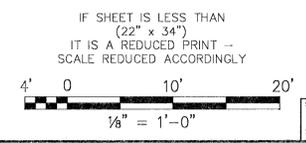
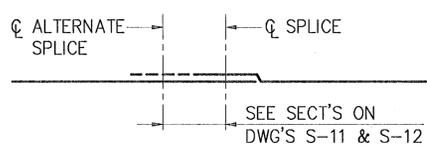
SCALE: 1/8" = 1'-0"



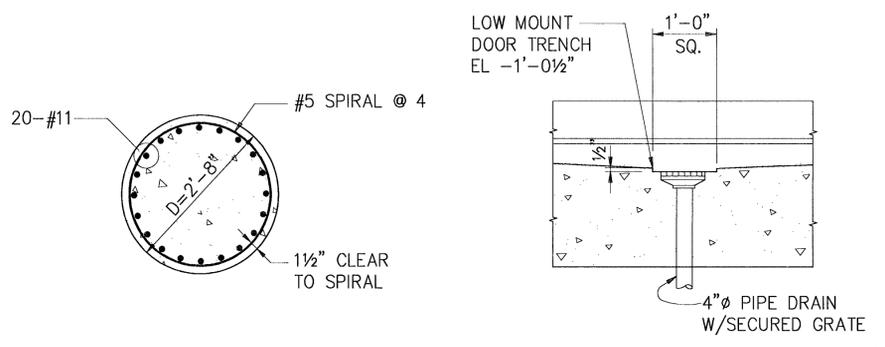
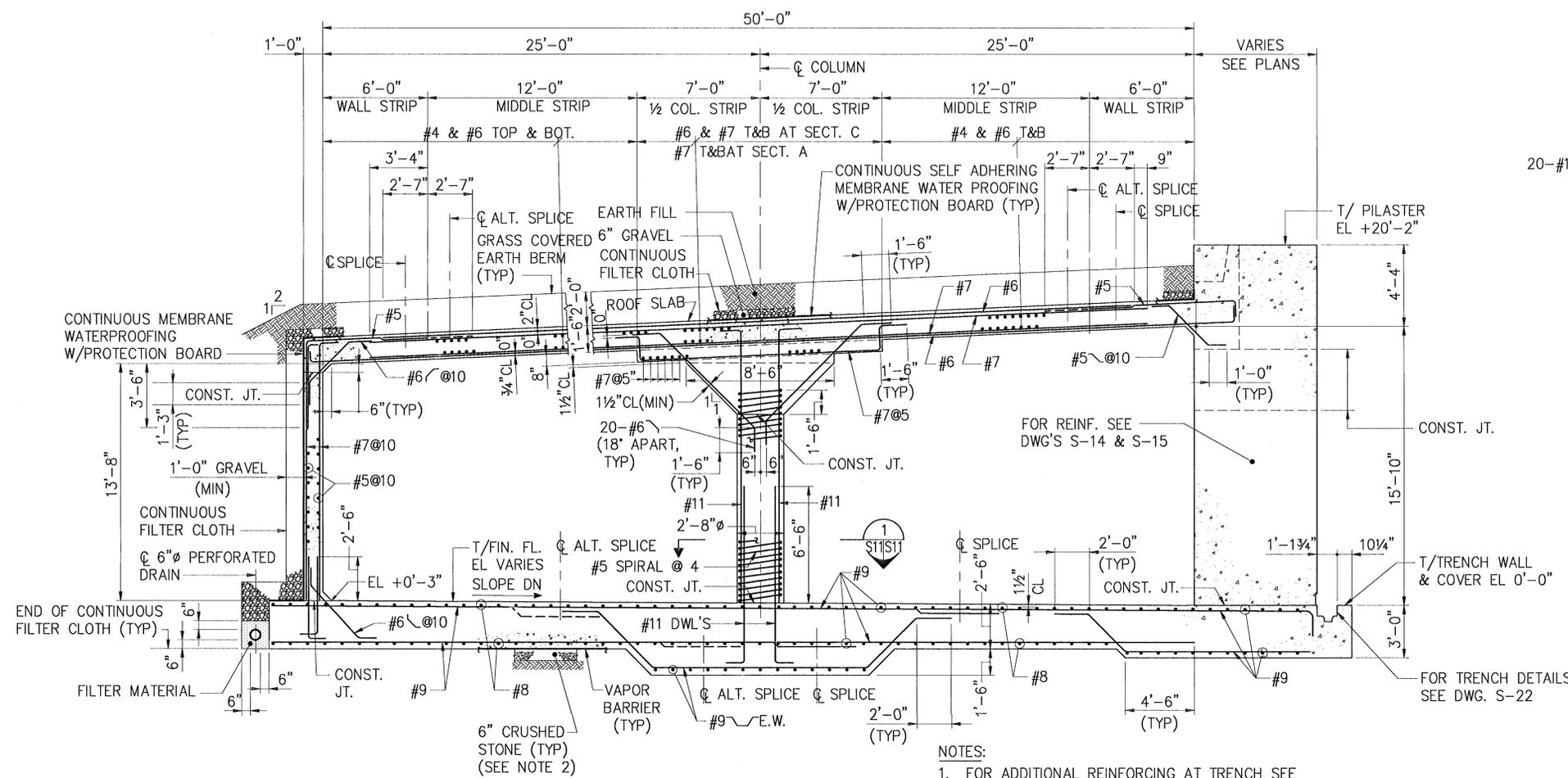
TYPICAL SPACING OF ROOF REINFORCEMENT
N.T.S.

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 WESTERN ST., NEW YORK, NY 10014		DEPARTMENT OF THE NAVY		WASHINGTON, D.C. 20350		
PRINCIPAL ENGINEER <i>R. Brandy</i>		NAVAL FACILITIES ENGINEERING COMMAND		STANDARD DRAWING		
ENGINEER IN CHARGE <i>R. Brandy</i>		STANDARD BOX MAGAZINE TYPE 'D'		ROOF PLAN		
BRANCH MANAGER <i>R. Brandy</i>		DIVISION DIRECTOR <i>R. Brandy</i>		NAVFACDINCOM		
FIRE PROTECTION ENGINEER		DATE	REV	CODE (BENT NO)	NAVFAC DRAWING NUMBER	
DISTRIBUTION MANAGER		DATE	D	80091	6,448,531	S-10
APPROVED		DATE	SCALE	1/8" = 1'-0"	CONTRACT NO	SHEET 10 OF 33
SATISFACTORY TO		DATE	CATEGORY CODE		SPEC NO	
TITLE		DATE	FOR COMMANDER NAVFACENCOM			

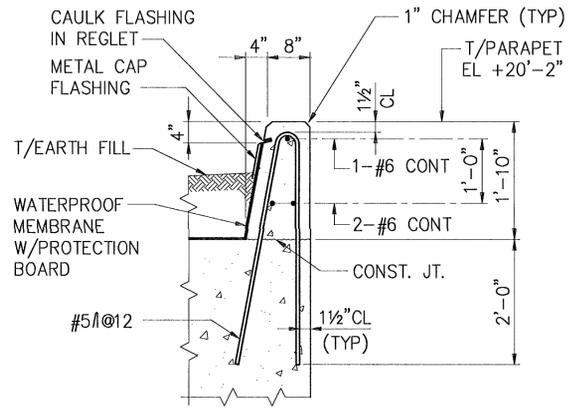


SECTION 1
SCALE: 3/4" = 1'-0" S12 S11/S11

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

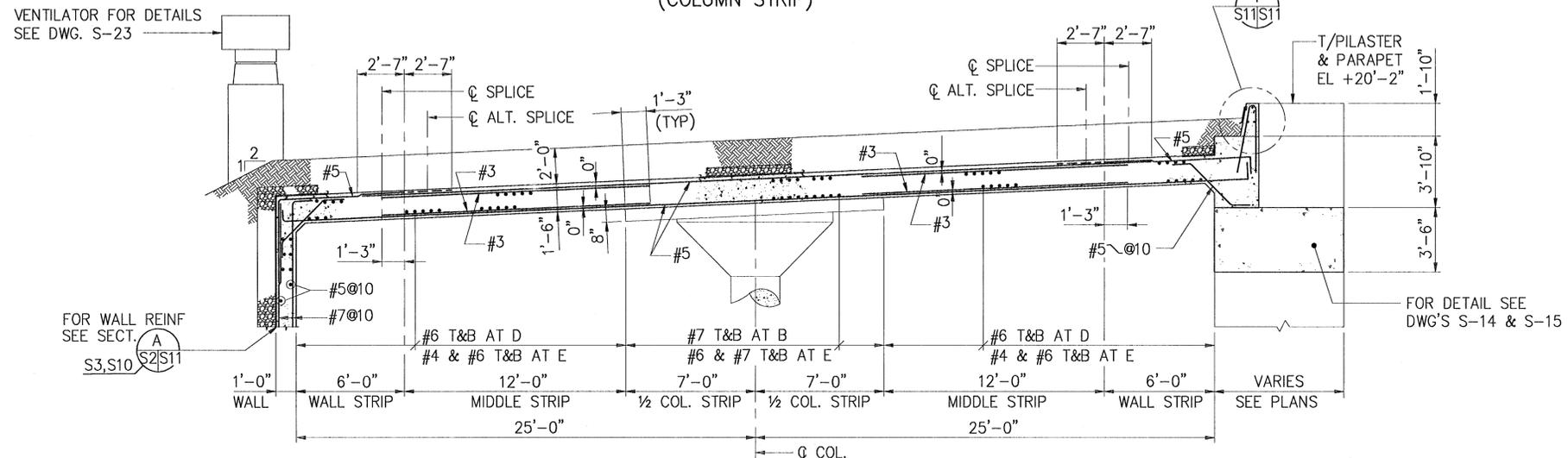
SECTION A & C
SCALE: 1/4" = 1'-0" S3, S10
(COLUMN STRIP)

- NOTES:
1. FOR ADDITIONAL REINFORCING AT TRENCH SEE DWG'S S-14 & S-15.
 2. DELETE CRUSHED STONE WHEN A MINIMUM OF 2'-0" OF STRUCTURAL FILL IS PROVIDED.



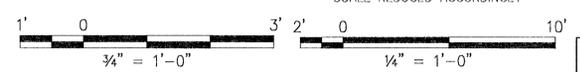
DETAIL 1
SCALE: 3/4" = 1'-0" S11/S11

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



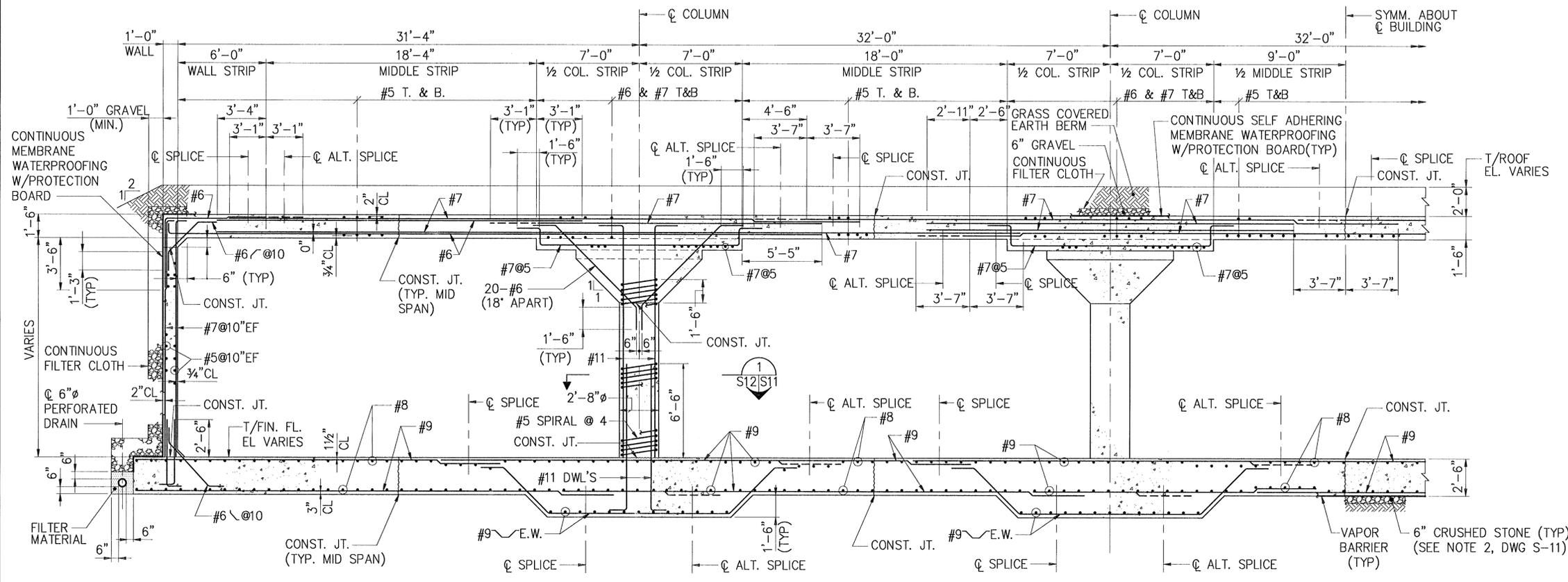
SECTION D & E
SCALE: 1/4" = 1'-0" S10/S11
(TYPICAL FOR WALL & MIDDLE STRIPS)

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

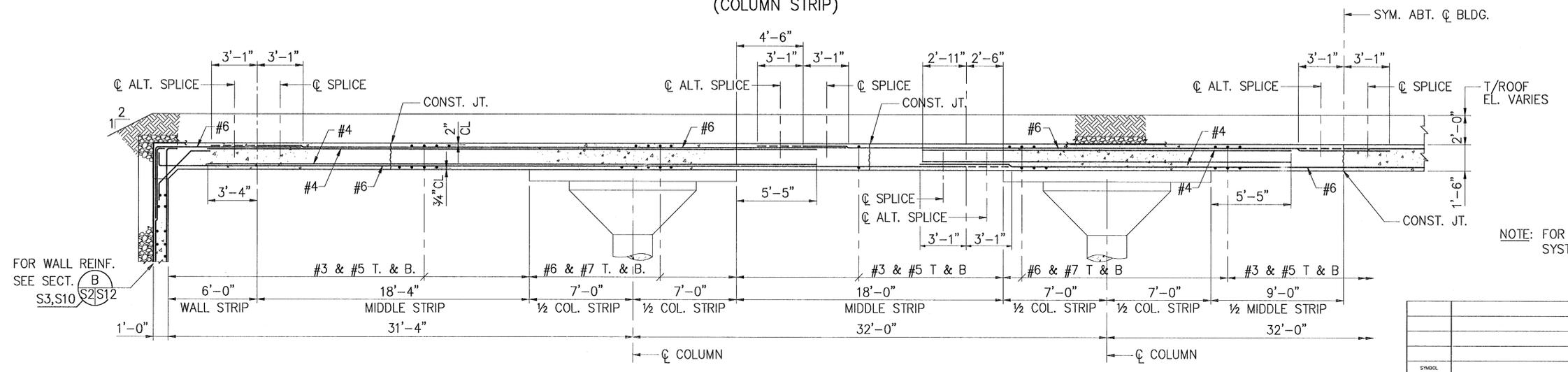


IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY.

SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MADISON ST., NEW YORK, NY 10014						
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350						
NAVAL FACILITIES ENGINEERING COMMAND						
STANDARD DRAWING						
STANDARD BOX MAGAZINE TYPE 'D'						
TRANSVERSE MAGAZINE SECTION						
SIZE	CODE	NAVAFAC DRAWING NUMBER				
D	80091	6,448,532	S-11			
SCALE	AS NOTED	CONTRACT NO.	SHEET 11 OF 33			
APPROVED	DATE	CATEGORY CODE	SPEC NO.			
FOR COMMANDER NAVFACENCOM						



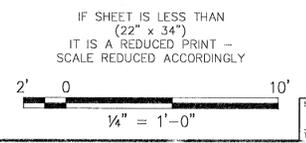
SECTION B
SCALE: 1/4" = 1'-0"
S3,S10 S2,S12
(COLUMN STRIP)



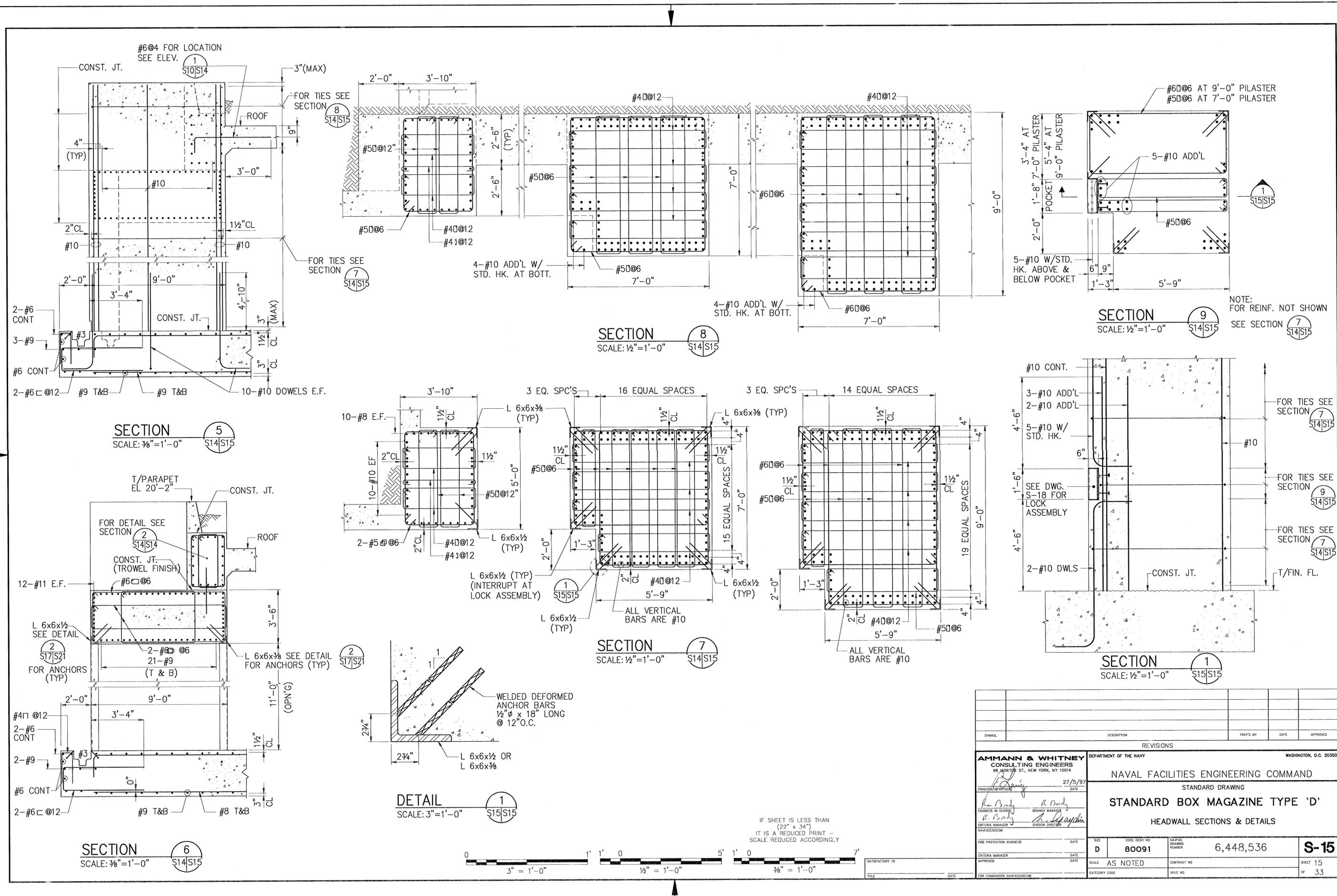
SECTION F
SCALE: 1/4" = 1'-0"
S10,S12
(TYPICAL FOR WALL & MIDDLE STRIPS)

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

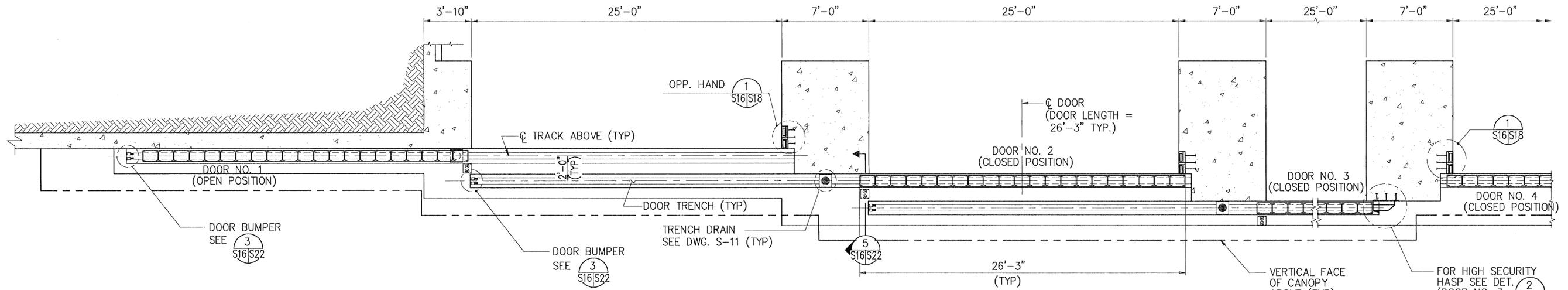
NOTE: FOR ALTERNATE EARTH FILL DRAINAGE SYSTEM SEE DWG. S-13.



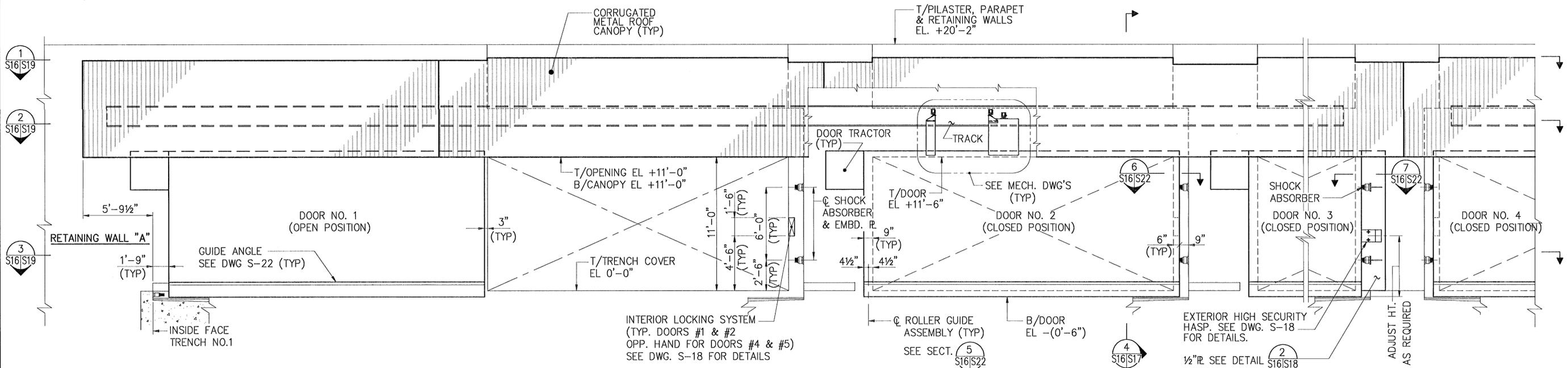
SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
DEPARTMENT OF THE NAVY						
WASHINGTON, D.C. 20350						
NAVAL FACILITIES ENGINEERING COMMAND						
STANDARD DRAWING						
STANDARD BOX MAGAZINE TYPE 'D'						
LONGITUDINAL MAGAZINE SECTION						
FIRE PROTECTION ENGINEER	DATE	SIZE	CODE (SHEET NO)	NAVFAC DRAWING NUMBER	S-12	
CRITERIA MANAGER	DATE	D	80091	6,448,533	SHEET 12 OF 33	
APPROVED	DATE	SCALE	AS NOTED	CONTRACT NO.	SPEC NO.	
FOR COMMANDER NAVFACENCOM						



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 STANDARD BOX MAGAZINE TYPE 'D' HEADWALL SECTIONS & DETAILS						
SIZE	CODE (BENT NO)	NAVFAC DRAWING NUMBER	S-15			
D	80091	6,448,536	SHEET 15 OF 33			
SCALE	AS NOTED	CONTRACT NO	FOR COMMANDER NAVFACENCOM			
CATEGORY CODE		SPIC NO				



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



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

NOTES:

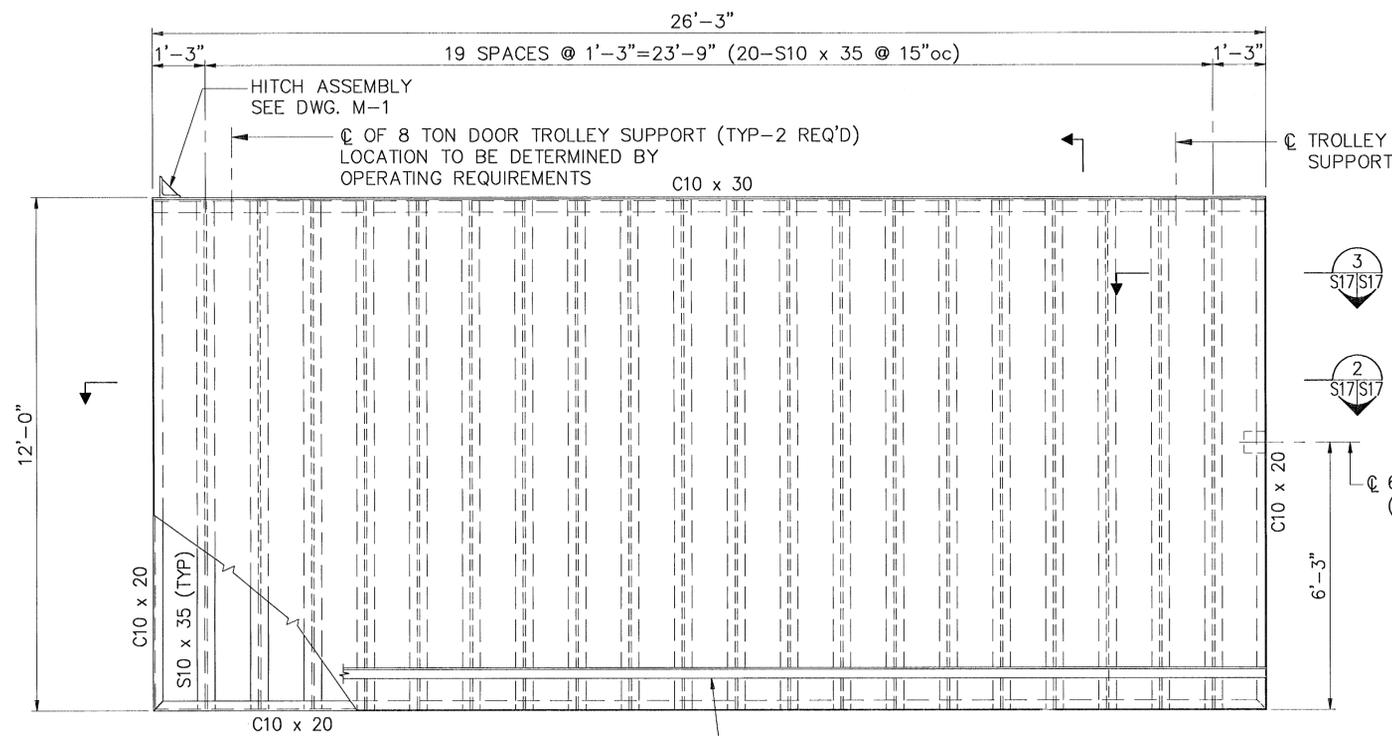
1. DOOR #4 AND DOOR #5 ARE OPPOSITE HAND. SEE DWG. S-2 FOR ORIENTATION.
2. ANGLES AROUND OPENINGS OMITTED FOR CLARITY.
3. FOR DOOR DETAILS SEE DWG. S-17.
4. FOR DOOR TRACTOR ASSEMBLY SEE DWG'S M-1, M-2 AND M-3.
5. FOR DOOR SHOCK ABSORBERS OPERATING REQUIREMENTS SEE DWG. S-22.
6. FOR BRUSH WEATHERSTRIP AROUND DOOR OPENING SEE DETAIL (2) AND SECTION (5)

(2) S17/S21 (5) S16/S22

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

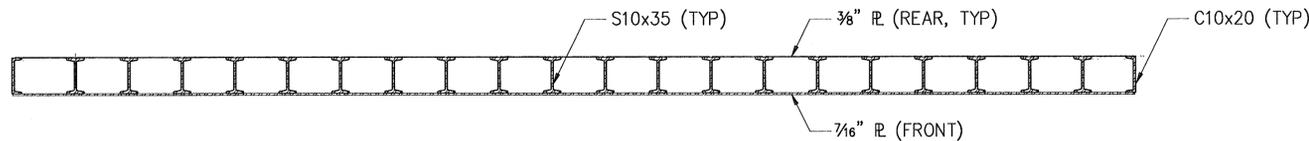


SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 HUDSON ST., NEW YORK, NY 10014				
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND WASHINGTON, D.C. 20350				
STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' SLIDING DOOR - PLAN & ELEVATION				
ENGINEER IN CHARGE R. Brady	BRANCH MANAGER R. Brady	DATE 27/5/97		
CRITERIA MANAGER R. Brady	DIVISION DIRECTOR R. Graydon			
DATE	DATE	SCALE 1/4" = 1'-0"	CONTRACT NO. 6,448,537	SHEET NO. 16
DATE	DATE	CATEGORY CODE	SPIC NO.	OF 33



FRONT ELEVATION OF SLIDING DOOR

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

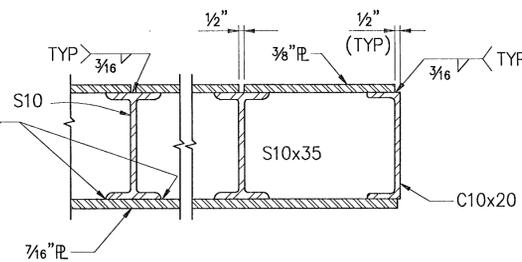


SECTION 2

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

S17/S17

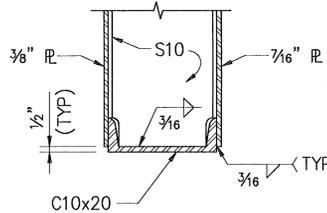
36" CONTINUOUS FROM TOP & BOT. OF DOOR, THEN 3" LONG @ 6"o.c.



SECTION 3

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

S17/S17



DETAIL 1

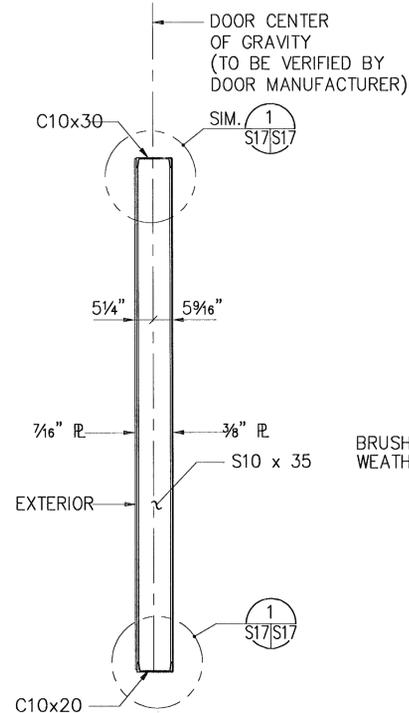
SCALE: 1/2"=1'-0"

S17/S17

NOTES:

- DOOR NO'S 1, 2 AND 3 AS SHOWN. DOOR NO'S 4 AND 5 OPPOSITE HAND.
- PROVIDE 6"x6"x10" STEEL BLOCK AT LEADING EDGE OF DOOR NO'S 1, 2, 4 AND 5 FOR INTERNAL LOCK ASSEMBLY. SEE DETAIL 1.

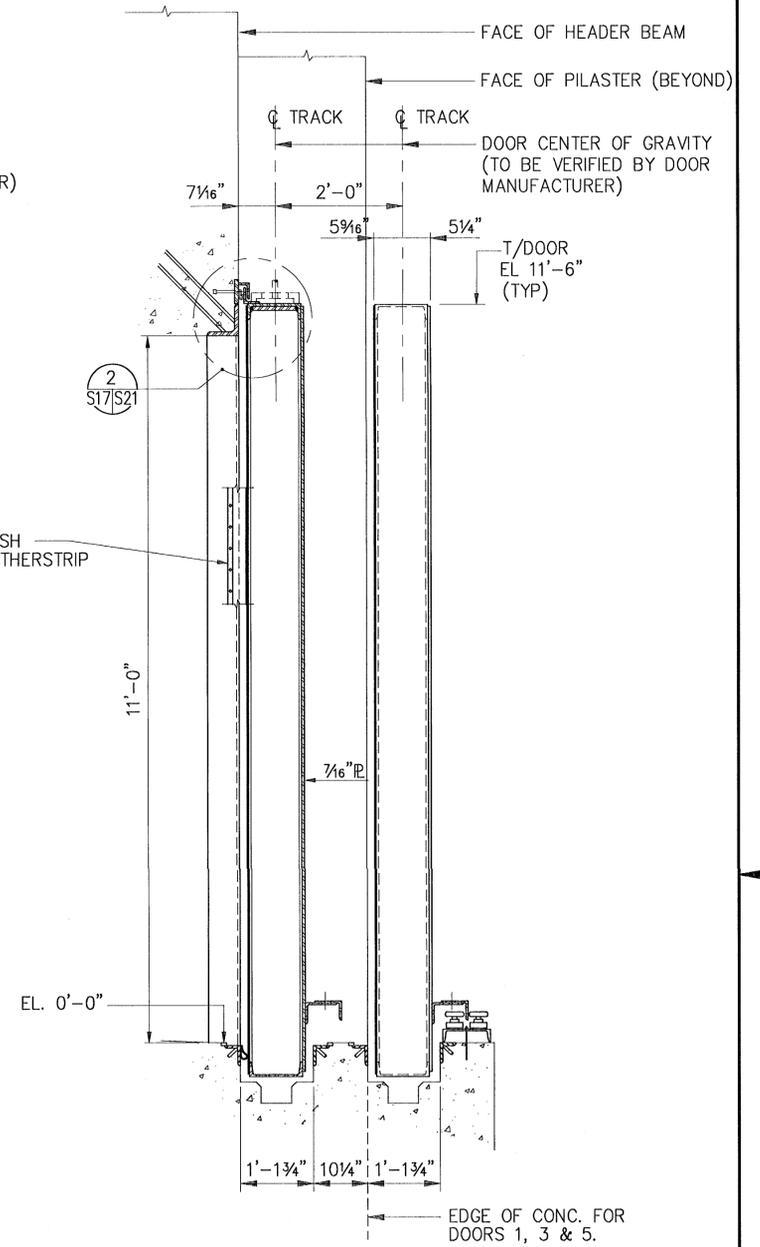
S16/S18



SECTION 1

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

S17/S17



SECTION 4

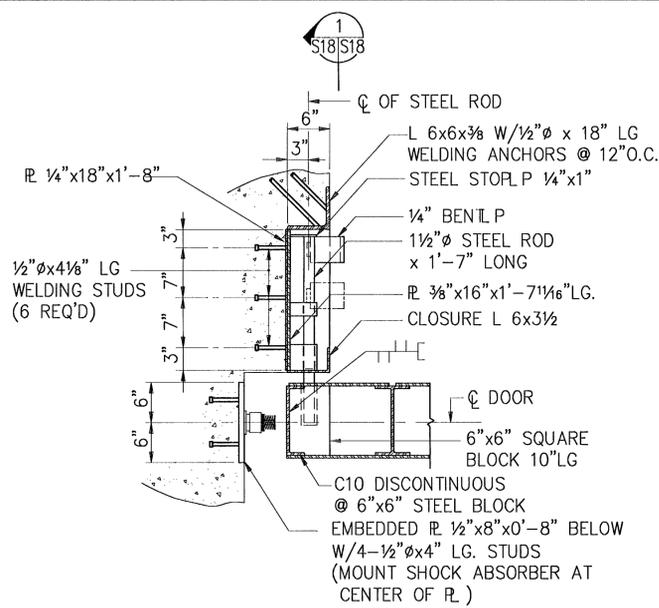
SCALE: 3/4"=1'-0"

S16/S17



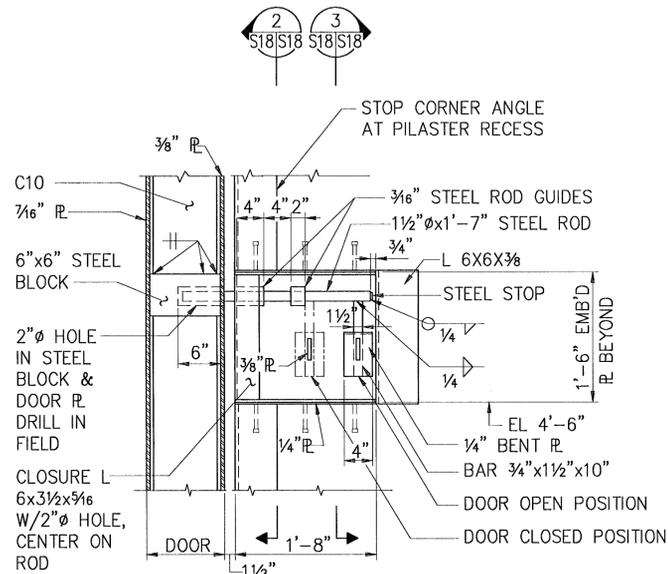
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014				
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350				
NAVAL FACILITIES ENGINEERING COMMAND				
STANDARD DRAWING				
STANDARD BOX MAGAZINE TYPE 'D'				
SLIDING DOOR - ELEVATION, SECTIONS & DETAILS				
DATE	CODE IDENT NO	NAVFAC DRAWING NUMBER		
27/5/97	80091	6,448,538		
SCALE	AS NOTED	CONTRACT NO		
SHEET 17				
OF 33				

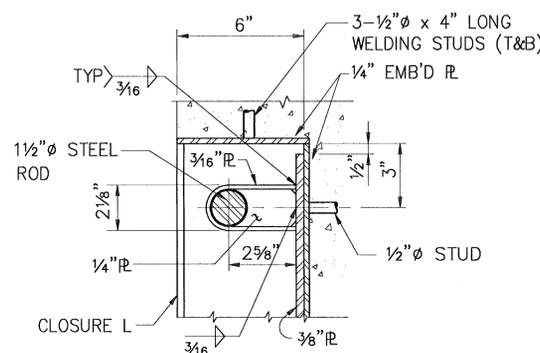


DETAIL 1
SCALE: 1"=1'-0" S18/S18

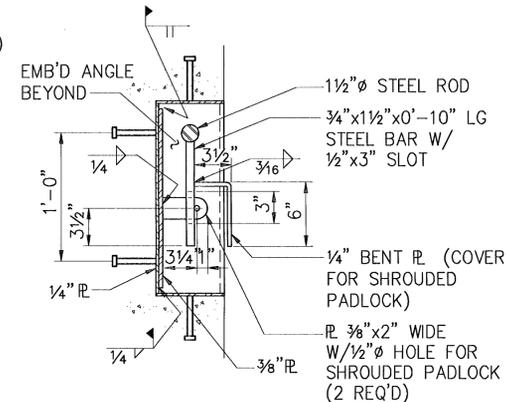
(PARTIAL PLAN OF INTERIOR DOOR LOCK ASSEMBLY-DOORS #1, #2, #4 & #5)



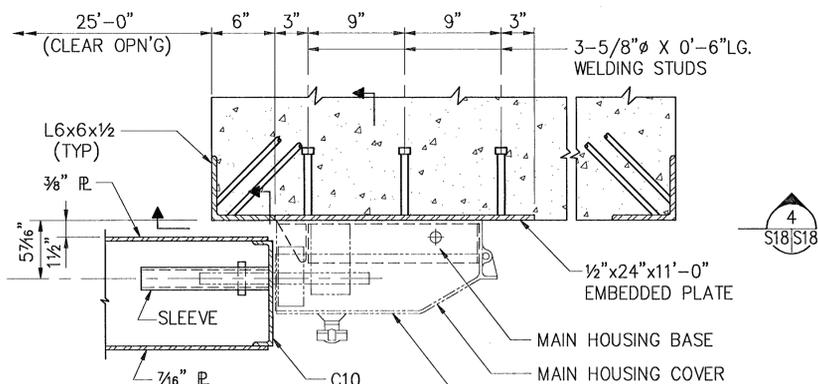
SECTION 1
SCALE: 1"=1'-0" S18/S18



SECTION 2
SCALE: 3"=1'-0" S18/S18



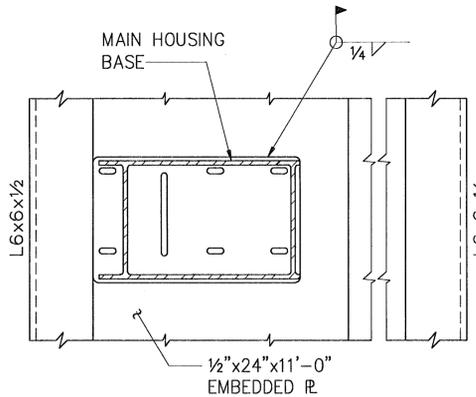
SECTION 3
SCALE: 1 1/2"=1'-0" S18/S18



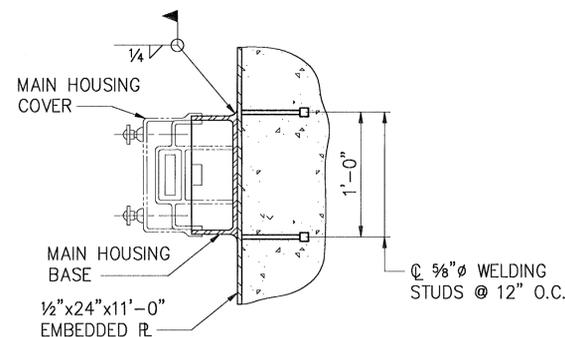
DETAIL 2
SCALE: 1 1/2"=1'-0" S18/S18

"HIGH SECURITY HASP"
(NAPEC #1332)

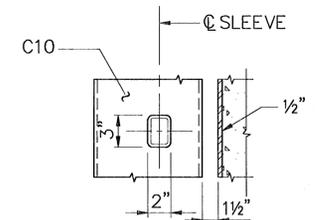
NOTE:
PUSH BUTTON DOOR MOTOR CONTROL LOCATED INSIDE THE HASP. SEE NAPEC DWG. NO. 53711-5532340.



SECTION 4
SCALE: 1 1/2"=1'-0" S18/S18



SECTION 5
SCALE: 1 1/2"=1'-0" S18/S18

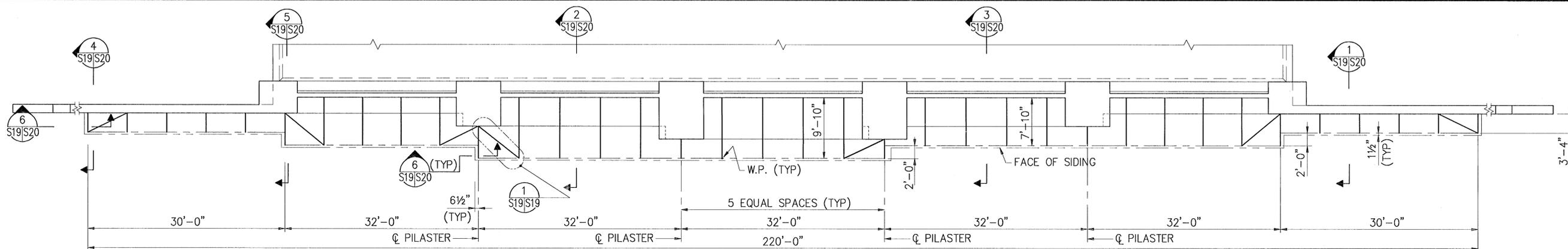


SECTION 6
SCALE: 1 1/2"=1'-0" S18/S18

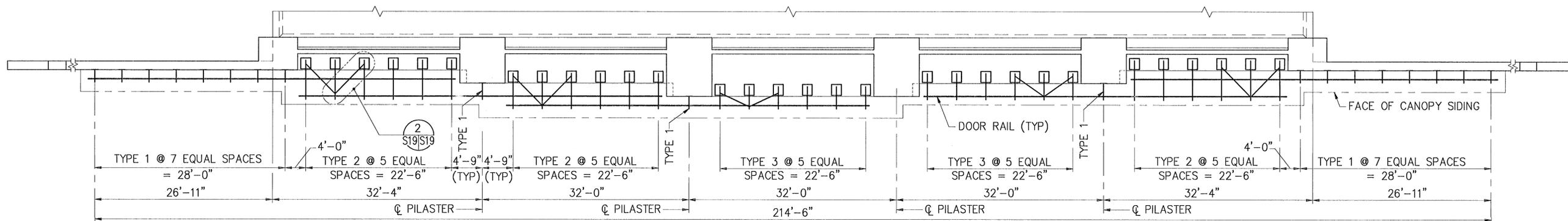


IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

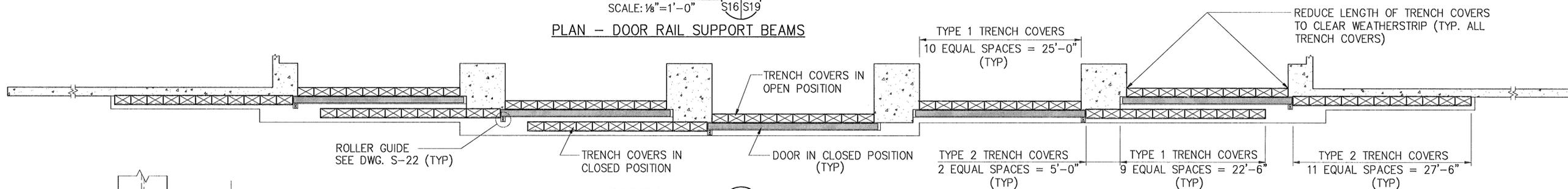
SYMBOL		DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS					
AMMANN & WHITNEY CONSULTING ENGINEERS 96 WASHINGTON ST., NEW YORK, NY 10014 DATE: 27/5/97					
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' LOCK DETAILS					
ENGINEER IN CHARGE R. Brady	BRANCH MANAGER R. Brady	DATE	SCALE	CONTRACT NO.	SHEET 18 OF 33
CITERIA MANAGER R. Brady	DIVISION DIRECTOR R. Brady	DATE	AS NOTED	6,448,539	S-18
FIRE PROTECTION ENGINEER		DATE	SCALE	CONTRACT NO.	SHEET 18 OF 33
CITERIA MANAGER		DATE	AS NOTED	6,448,539	S-18
APPROVED		DATE	SCALE	CONTRACT NO.	SHEET 18 OF 33
FOR COMMANDER NAVFACENCOM		DATE	AS NOTED	6,448,539	S-18



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

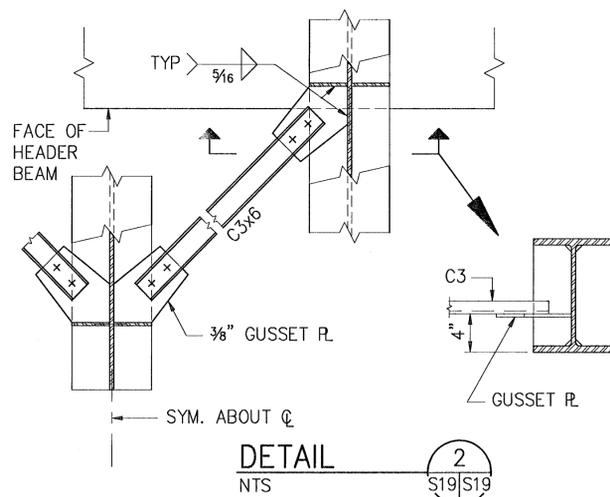


SECTION 2
SCALE: 1/8"=1'-0"
PLAN - DOOR RAIL SUPPORT BEAMS

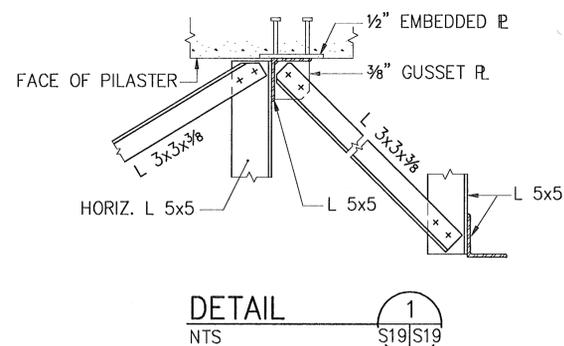


SECTION 3
SCALE: 1/8"=1'-0"
PLAN - TRENCH COVERS

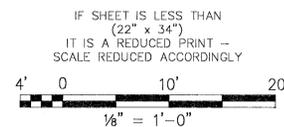
- NOTES:
1. FOR CANOPY SUPPORT FRAMES SEE DWG. S-20.
 2. FOR DOOR RAIL SUPPORT BEAMS SEE DWG. S-21.
 3. FOR TRENCH COVER AND ROLLER GUIDE SEE DWG. S-22.



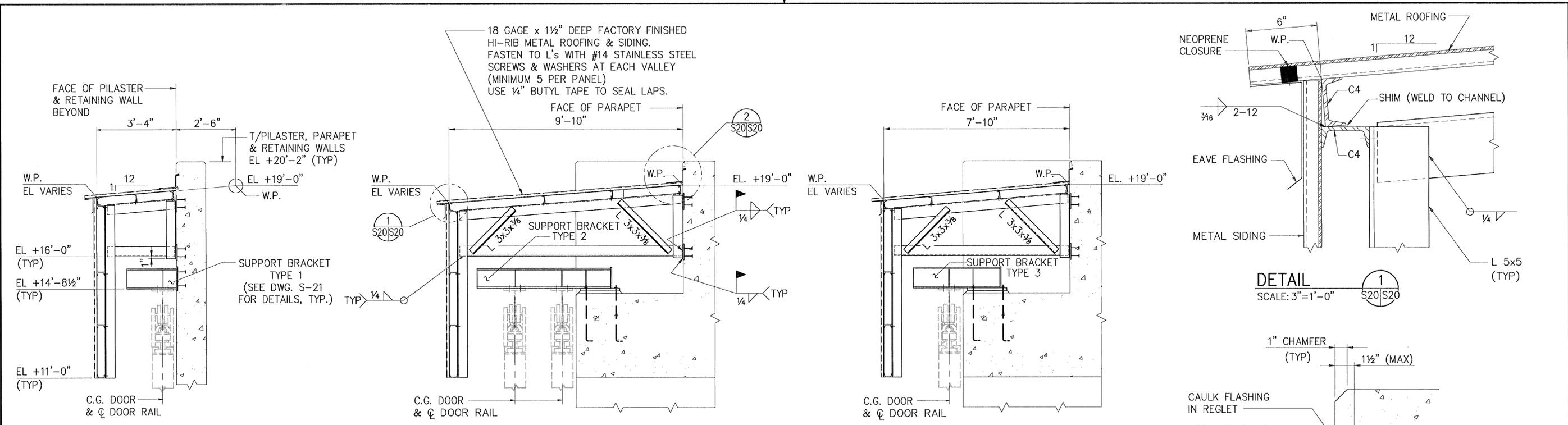
DETAIL 2
NTS
S19/S19



DETAIL 1
NTS
S19/S19



SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS						
DEPARTMENT OF THE NAVY						
WASHINGTON, D.C. 20350						
NAVAL FACILITIES ENGINEERING COMMAND						
STANDARD DRAWING						
STANDARD BOX MAGAZINE TYPE 'D'						
PLANS - CANOPY, RAIL SUPPORTS, TRENCH COVERS						
ENGINEER IN CHARGE	DATE	CODE IDENT NO	NAVFAC DRAWING NUMBER	SHEET 19 OF 33		
CRITERIA MANAGER	DATE	SCALE	CONTRACT NO	SPEC NO		
APPROVED	DATE	FOR COMMANDER NAVFACENCOM				

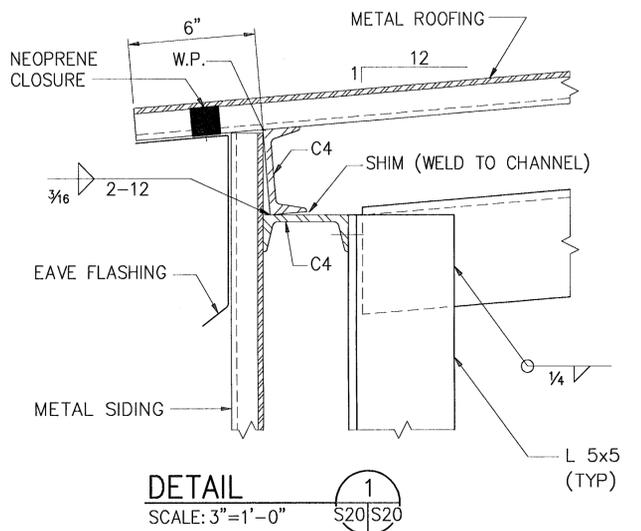


SECTION 1
SCALE: 1/2" = 1'-0"
S19/S20

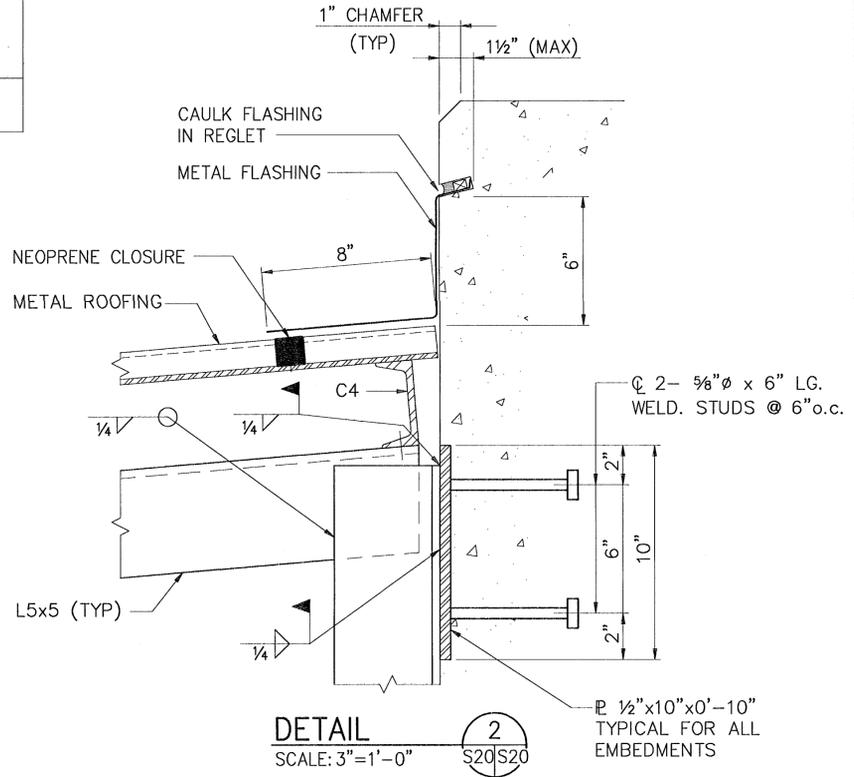
SECTION 2
SCALE: 1/2" = 1'-0"
S19/S20

SECTION 3
SCALE: 1/2" = 1'-0"
S19/S20

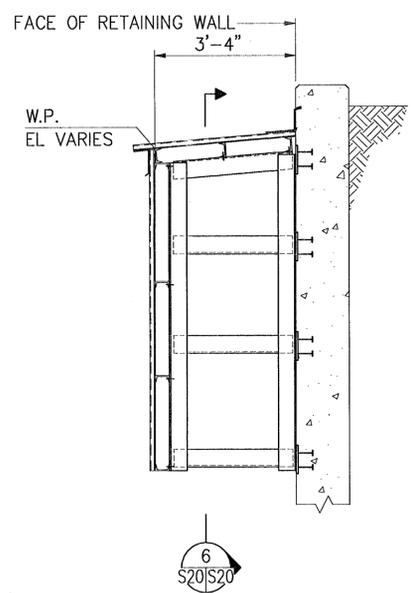
- NOTES:**
1. ALL ANGLES TO BE 5x5x3/8 UNLESS NOTED OTHERWISE.
 2. ALL PURLINS AND GIRTS TO BE C4x7.25, FASTENED TO ANGLES WITH TWO 3/8" A325 BOLTS (TYP).
 3. FOR SUPPORT BRACKET DETAILS, SEE DWG. S-21.



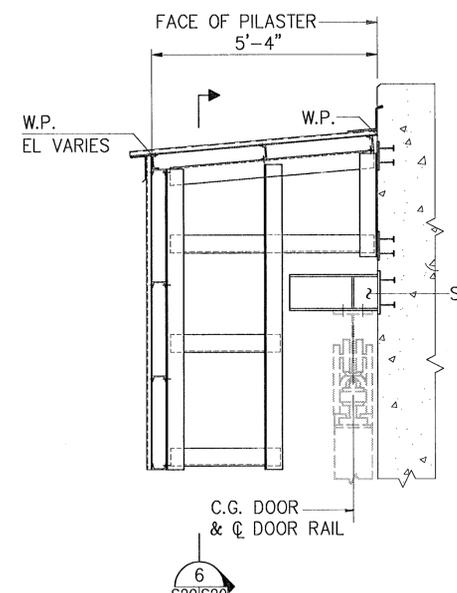
DETAIL 1
SCALE: 3" = 1'-0"
S20/S20



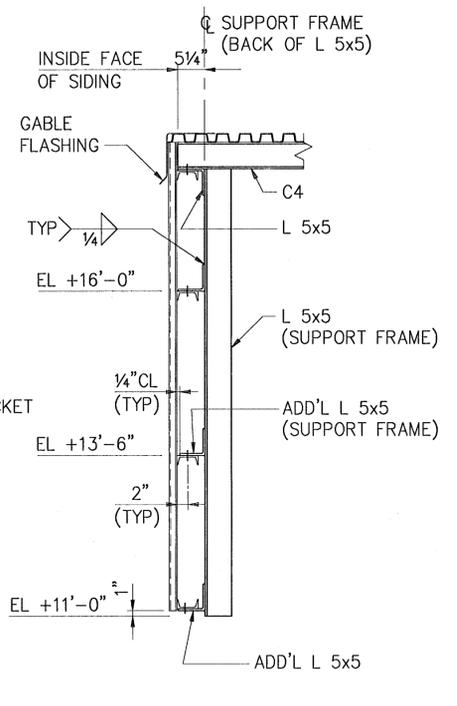
DETAIL 2
SCALE: 3" = 1'-0"
S20/S20



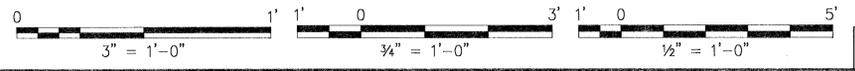
SECTION 4
SCALE: 1/2" = 1'-0"
S19/S20



SECTION 5
SCALE: 1/2" = 1'-0"
S19/S20

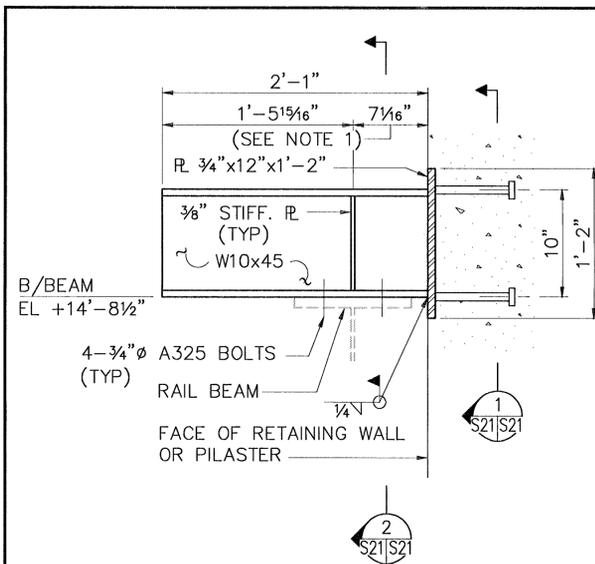


SECTION 6
SCALE: 3/4" = 1'-0"
S20/S19/S20



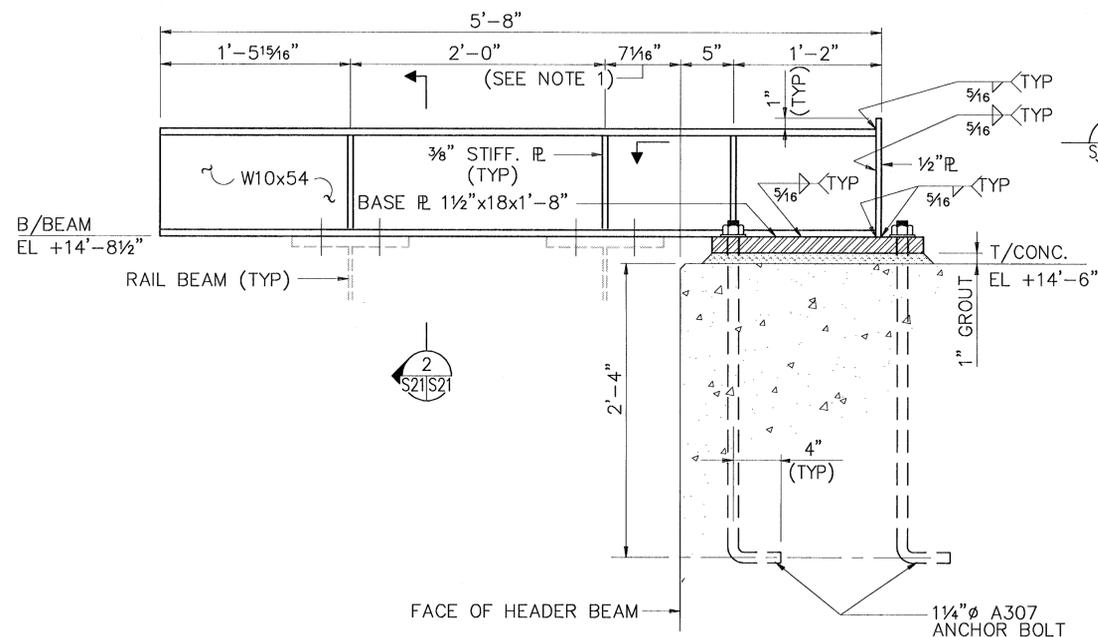
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014 DATE: 27/5/97 ENGINEER IN CHARGE: R. Brady BRANCH MANAGER: R. Brady CRITERIA MANAGER: R. Brady DIVISION DIRECTOR: R. Brady						
NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' CANOPY DETAILS						
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	WASHINGTON, D.C. 20350 6,448,541 S-20			
SCALE	AS NOTED	CONTRACT NO	SHEET 20 OF 33			
CATEGORY CODE		SPEC NO				



TYPE 1

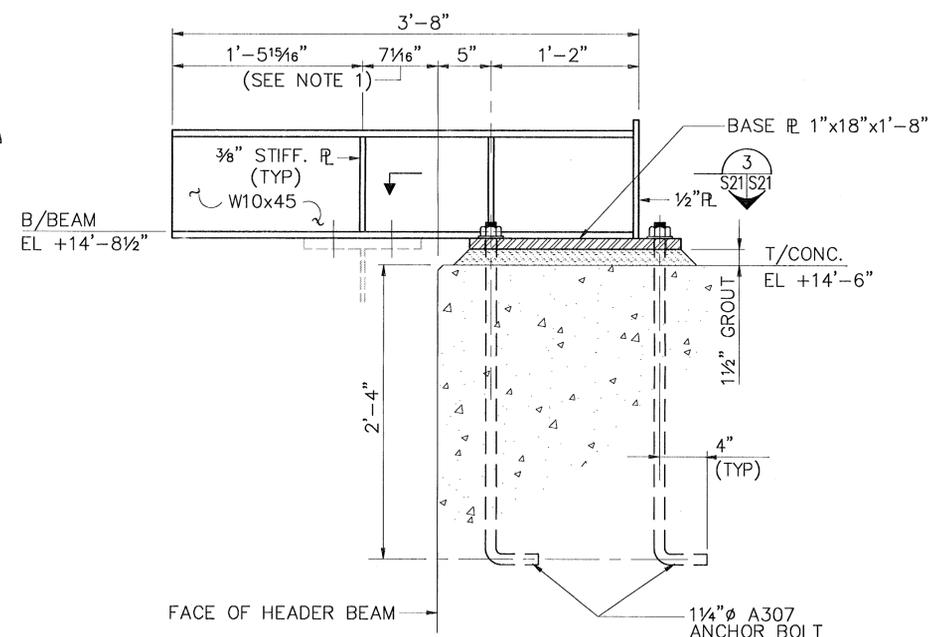
NOTE 1: LOCATION OF RAIL BEAM TO BE VERIFIED BY DOOR MANUF.



TYPE 2

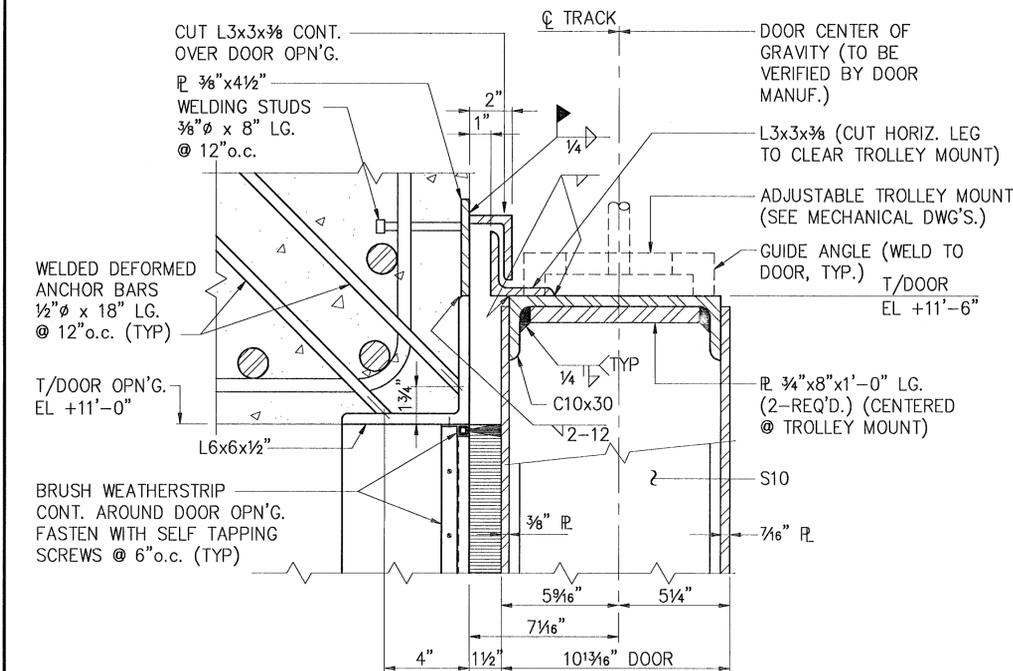
DOOR RAIL SUPPORT BEAM DETAILS

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



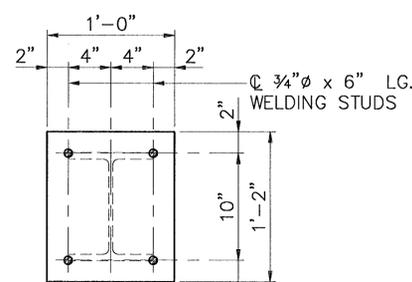
TYPE 3

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



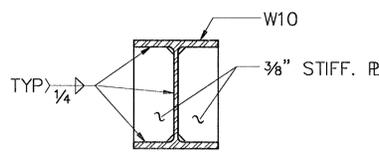
DETAIL

SCALE: 3" = 1'-0"



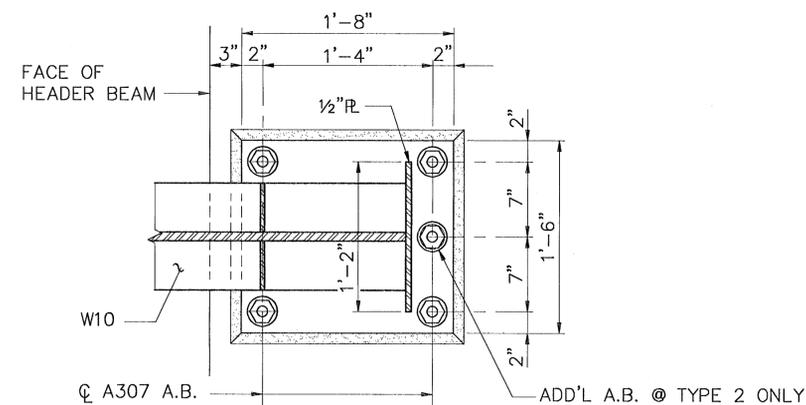
SECTION 1

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



SECTION 2

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



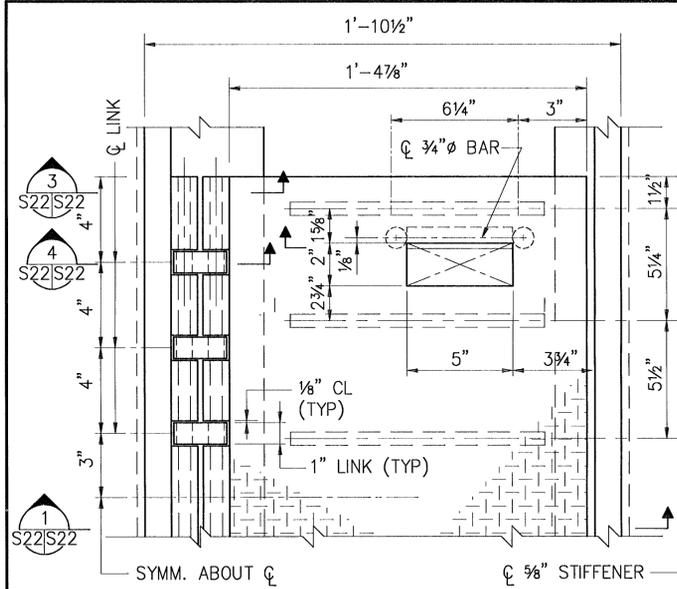
SECTION 3

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



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

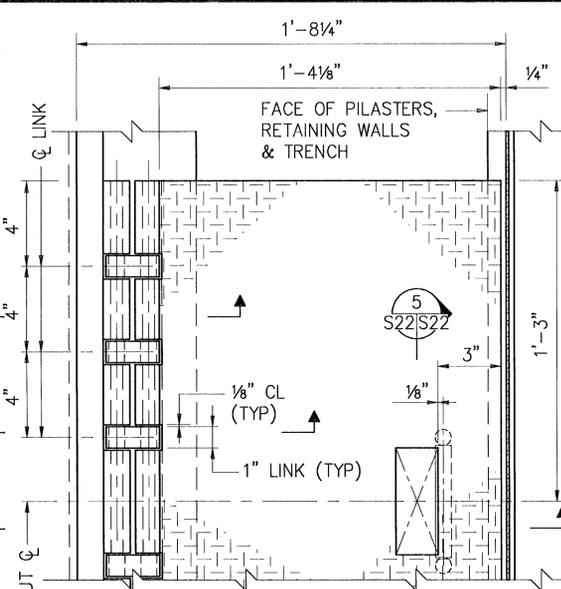
SYMBOL		DESCRIPTION		PROFD BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 86 MURKIN ST., NEW YORK, NY 10014 DATE: 27/5/97 ENGINEER IN CHARGE: <i>R. Brady</i> BRANCH MANAGER: <i>R. Brady</i> CRITERIA MANAGER: <i>R. Brady</i> NAVFACNSGCOM DIVISION DIRECTOR: <i>A. Hayden</i>						
NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' RAIL SUPPORT BEAM DETAILS						
FIRE PROTECTION ENGINEER CRITERIA MANAGER APPROVED	DATE DATE DATE	SIZE: D CODE: 80091 SCALE: AS NOTED	NAVFAC DRAWING NUMBER: 6,448,542 CONTRACT NO. SPEC NO.	S-21 SHEET 21 OF 33		



PARTIAL PLAN

SCALE: 3"=1'-0"

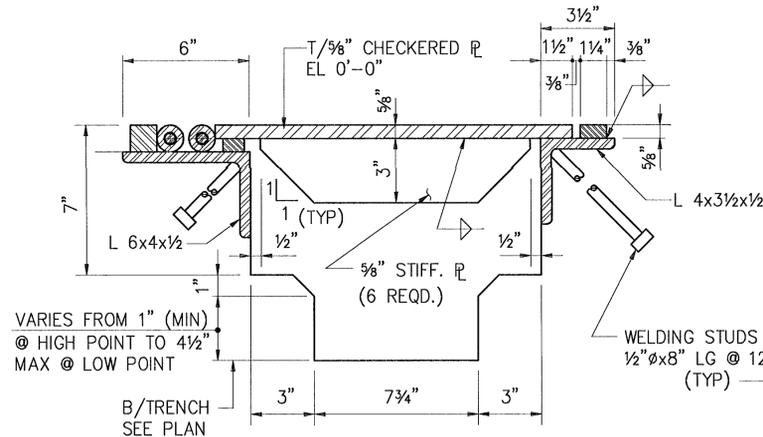
(TYPE 1 DOOR TRENCH COVER PLATE)



PARTIAL PLAN

SCALE: 3"=1'-0"

(TYPE 2 DOOR TRENCH COVER PLATE)



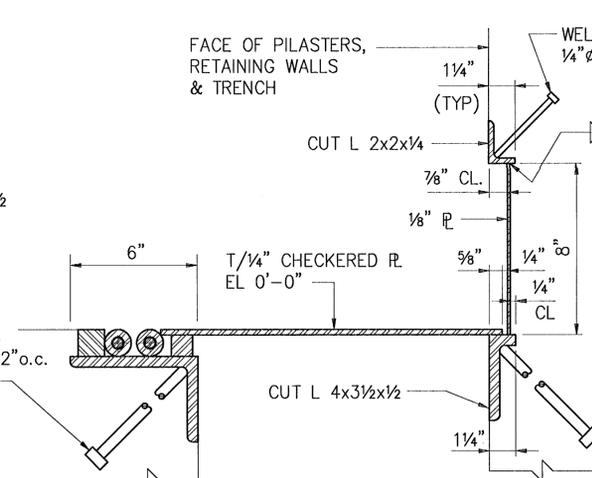
SECTION 1

SCALE: 3"=1'-0"

S22S22

NOTES:

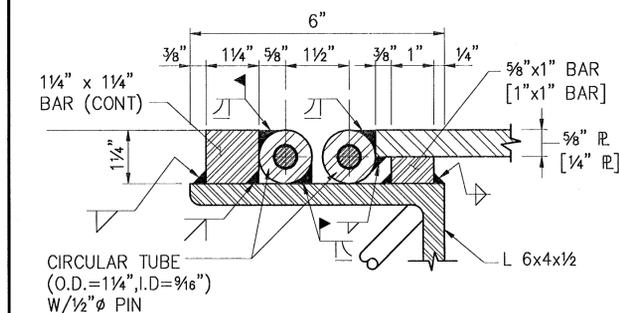
- TRENCH COVER PLATES SHALL HAVE A MINIMUM $f_y = 50$ KSI.
- TRENCH COVER PLATES AND ATTACHMENTS INCLUDING HINGES AND PINS SHALL BE GALVANIZED.



SECTION 2

SCALE: 3"=1'-0"

S22S22

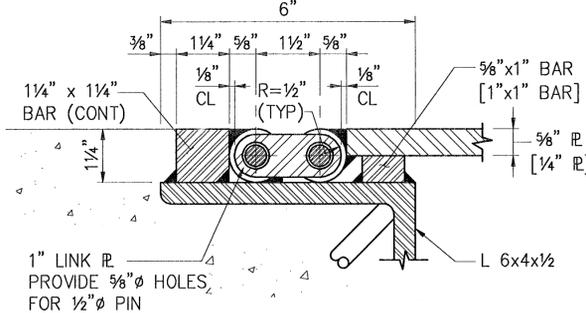


SECTION 3

SCALE: HALF SIZE

S22S22

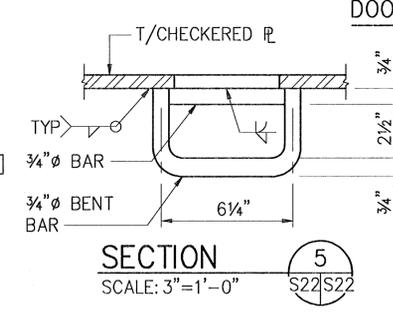
NOTE: [] INDICATES DIMENSION FOR TYPE 2 TRENCH COVERS.



SECTION 4

SCALE: HALF SIZE

S22S22

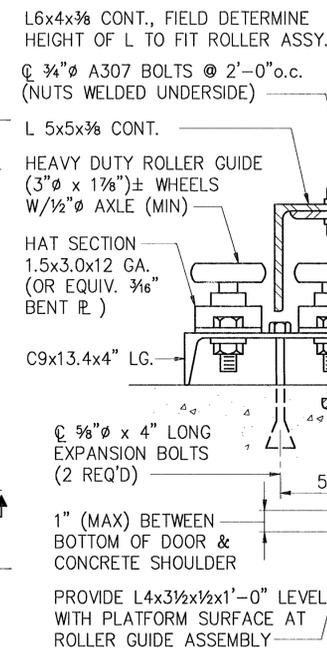
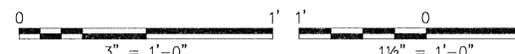


SECTION 5

SCALE: 3"=1'-0"

S22S22

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

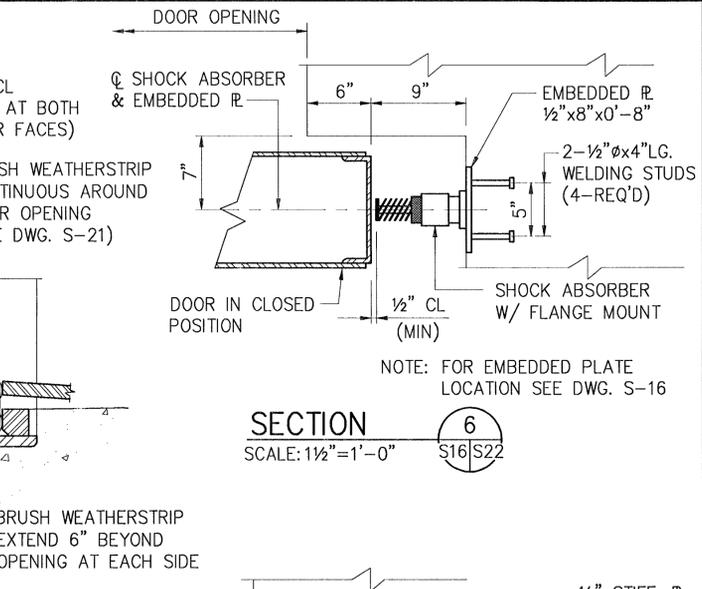


SECTION 5

SCALE: 3"=1'-0"

S16S22

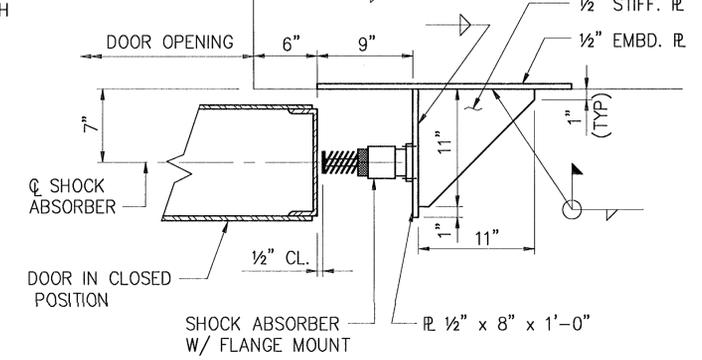
ROLLER GUIDE ASSEMBLY



SECTION 6

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

S16S22



SECTION 7

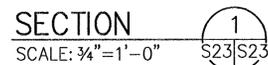
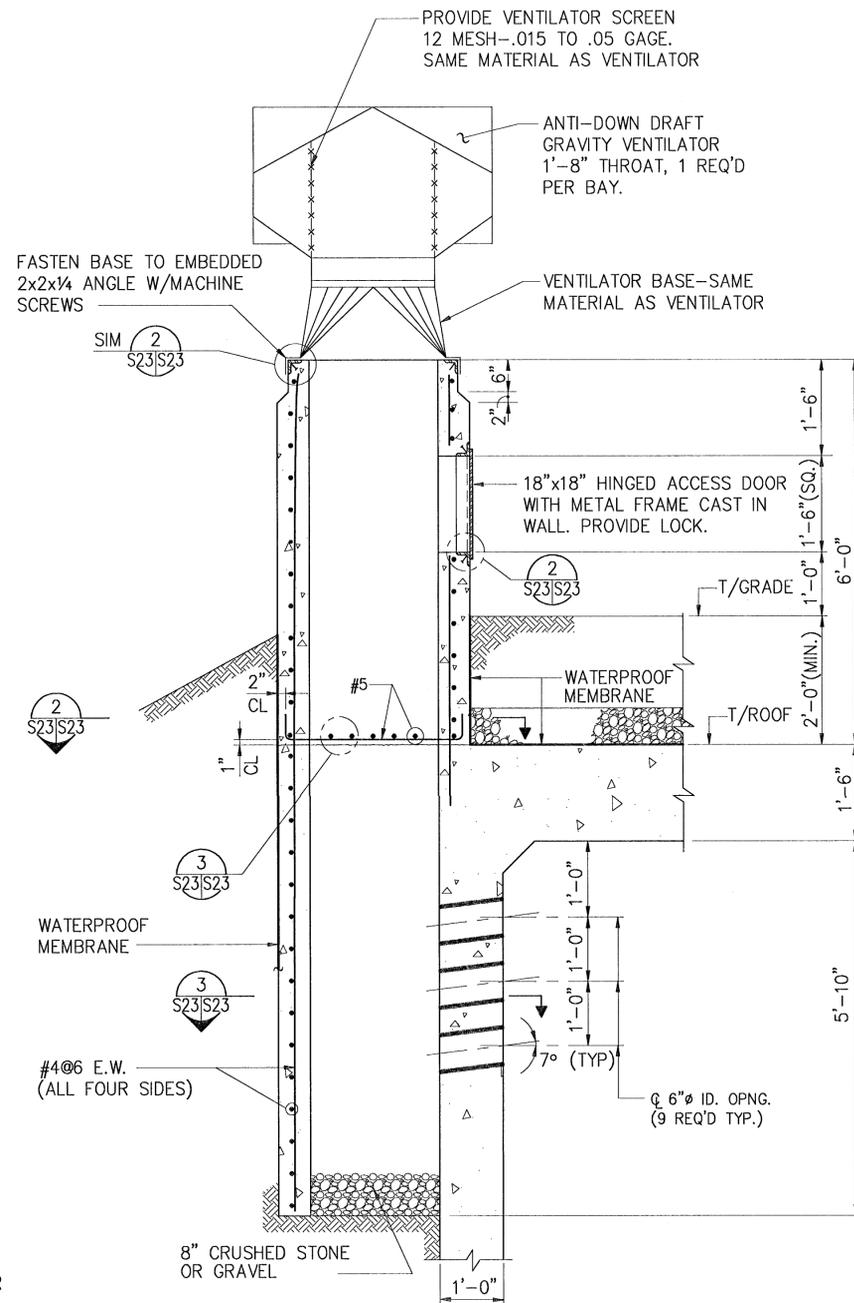
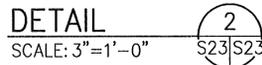
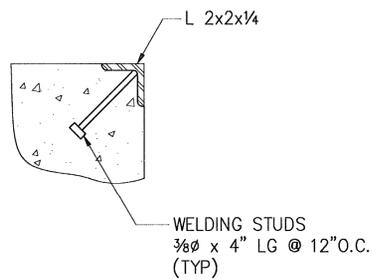
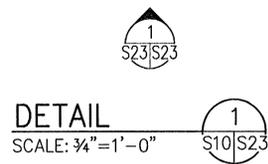
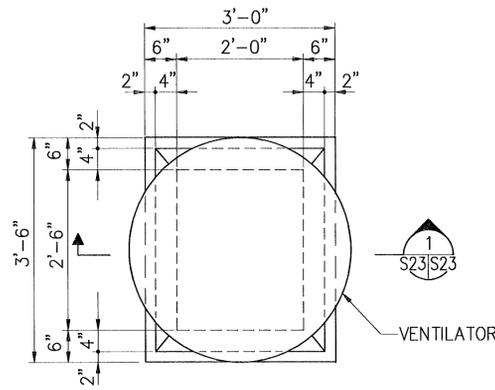
SCALE: 1 1/2"=1'-0"

S16S22

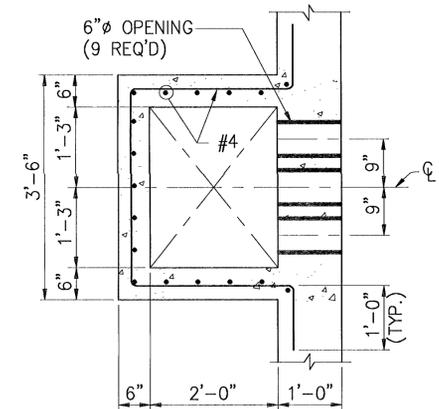
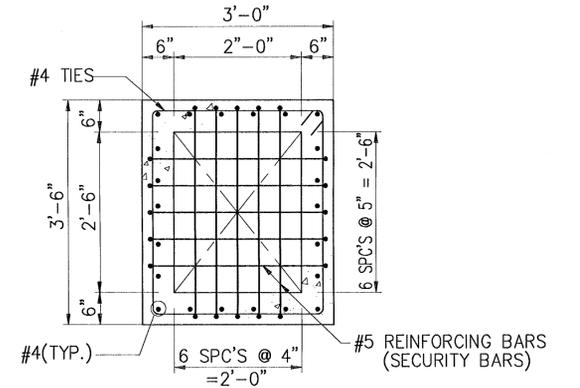
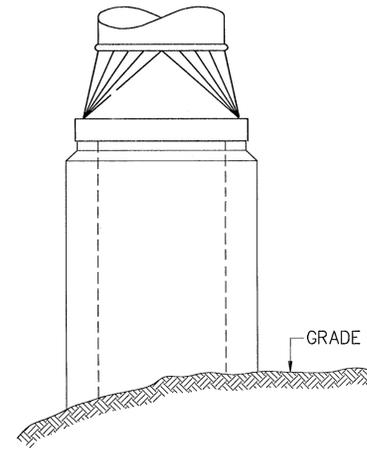
DOOR SHOCK ABSORBERS-- OPERATING REQUIREMENTS

- MAXIMUM DOOR SPEED 12 FT/MIN OPENING/CLOSING.
- DOOR CLOSING SHOCK ABSORBER:
 - AT PILASTER - QUANTITY = 2
 - STOPPING DISTANCE = 1 INCH
 - MAXIMUM FORCE PER SHOCK ABSORBER = 10,000 LBS
 - DUTY CYCLE = 10 DEFLECTIONS/HOUR
- 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

AMMANN & WHITNEY CONSULTING ENGINEERS		DEPARTMENT OF THE NAVY	
96 MORTON ST., NEW YORK, NY 10014		WASHINGTON, D.C. 20350	
<p>NAVAL FACILITIES ENGINEERING COMMAND</p> <p>STANDARD DRAWING</p> <p>STANDARD BOX MAGAZINE TYPE 'D'</p> <p>TRENCH COVERS, BUMPERS, DOOR GUIDES - DETAILS</p>			
<p>DATE: 27/5/97</p> <p>ENGINEER IN CHARGE: [Signature]</p> <p>BRANCH MANAGER: [Signature]</p> <p>CRITERIA MANAGER: [Signature]</p> <p>NAVAECINCOM</p>	<p>DATE: 27/5/97</p> <p>DATE: 27/5/97</p> <p>DATE: 27/5/97</p> <p>DATE: 27/5/97</p>	<p>CODE IDENT NO: 80091</p> <p>NAVAEC DRAWING NUMBER: 6,448,543</p> <p>SCALE: AS NOTED</p> <p>CATEGORY CODE:</p>	<p>S-22</p> <p>SHEET 22 OF 33</p>

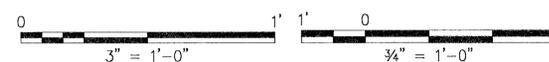


DETAILS OF VENTILATOR SHAFT



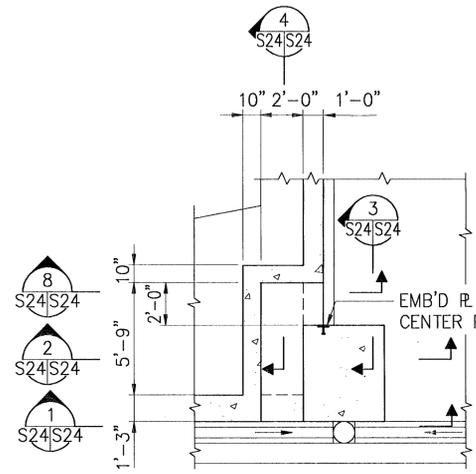
NOTES:

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.

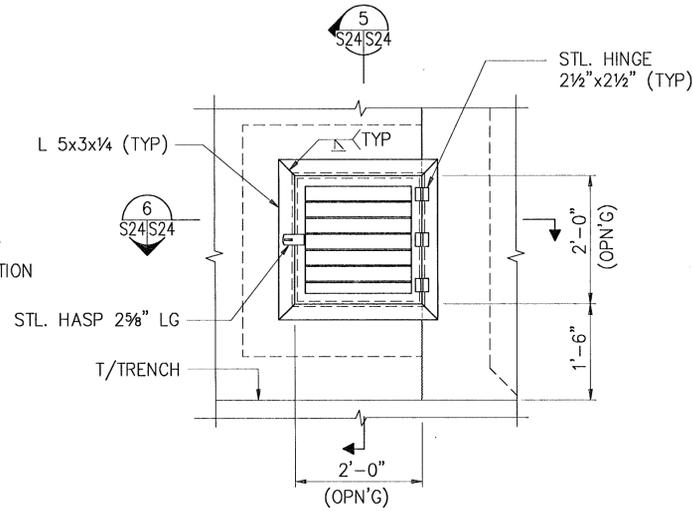


IF SHEET IS LESS THAN
(22" x 34")
IT IS A REDUCED PRINT -
SCALE REDUCED ACCORDINGLY

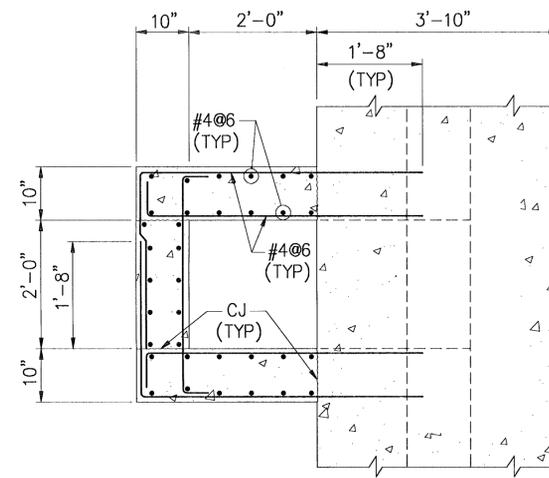
SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350		NAVAL FACILITIES ENGINEERING COMMAND		
27/5/97		DATE		STANDARD DRAWING		
R. Brady		BRANCH MANAGER		STANDARD BOX MAGAZINE TYPE 'D'		
R. Brady		ENGINEER IN CHARGE		VENTILATOR DETAILS		
R. Brady		CRITERIA MANAGER		NAVFACENCOM		
DATE		DATE		SIZE		
DATE		DATE		CODE IDENT NO		
DATE		DATE		NAVFAC DRAWING NUMBER		
DATE		DATE		6,448,544		
DATE		DATE		S-23		
DATE		DATE		SCALE		
DATE		DATE		AS NOTED		
DATE		DATE		CONTRACT NO		
DATE		DATE		SHEET 23		
DATE		DATE		OF 33		
DATE		DATE		CATEGORY CODE		
DATE		DATE		SPEC NO		



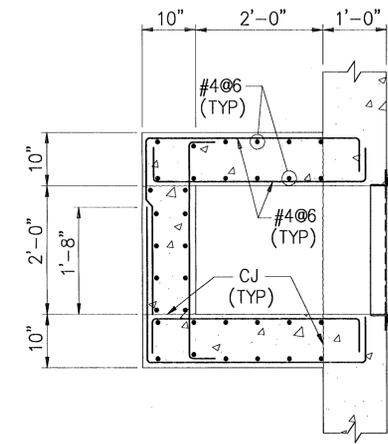
DETAIL 2
SCALE: 1/4"=1'-0"
DETAIL OF AIR INTAKE DUCT



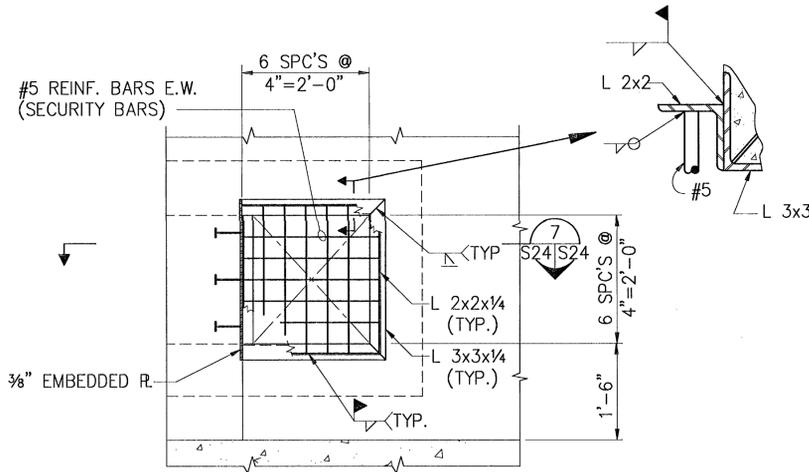
SECTION 1
SCALE: 3/4"=1'-0"
SECTION



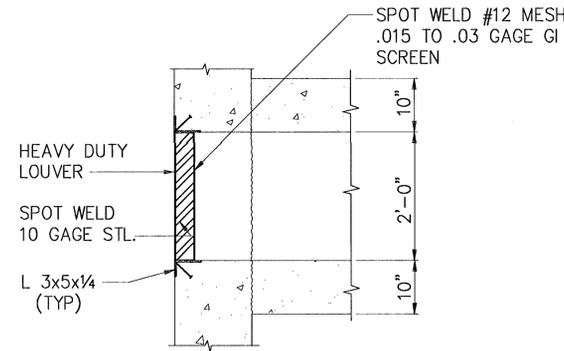
SECTION 2
SCALE: 3/4"=1'-0"
SECTION



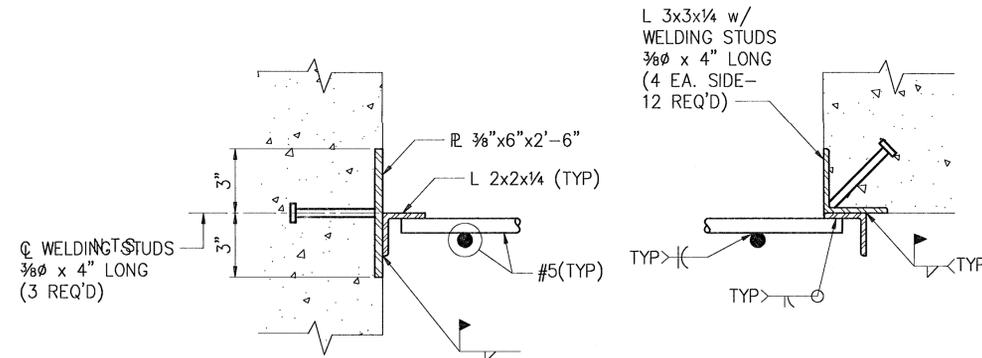
SECTION 8
SCALE: 3/4"=1'-0"
SECTION



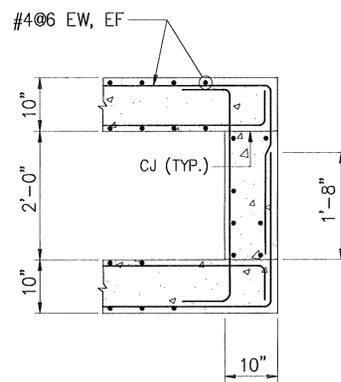
SECTION 3
SCALE: 3/4"=1'-0"
SECTION



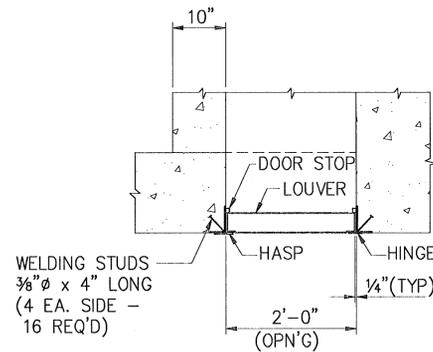
SECTION 5
SCALE: 3/4"=1'-0"
SECTION



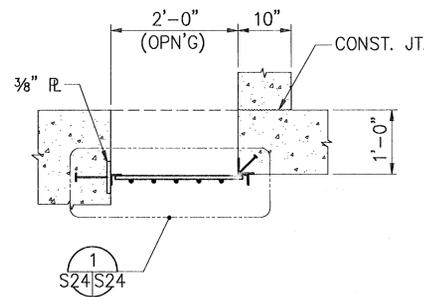
DETAIL 1
SCALE: 3"=1'-0"
DETAIL



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

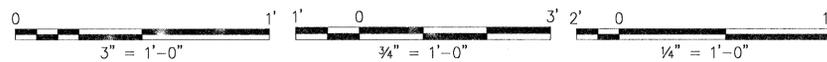


SECTION 6
SCALE: 3/4"=1'-0"
SECTION

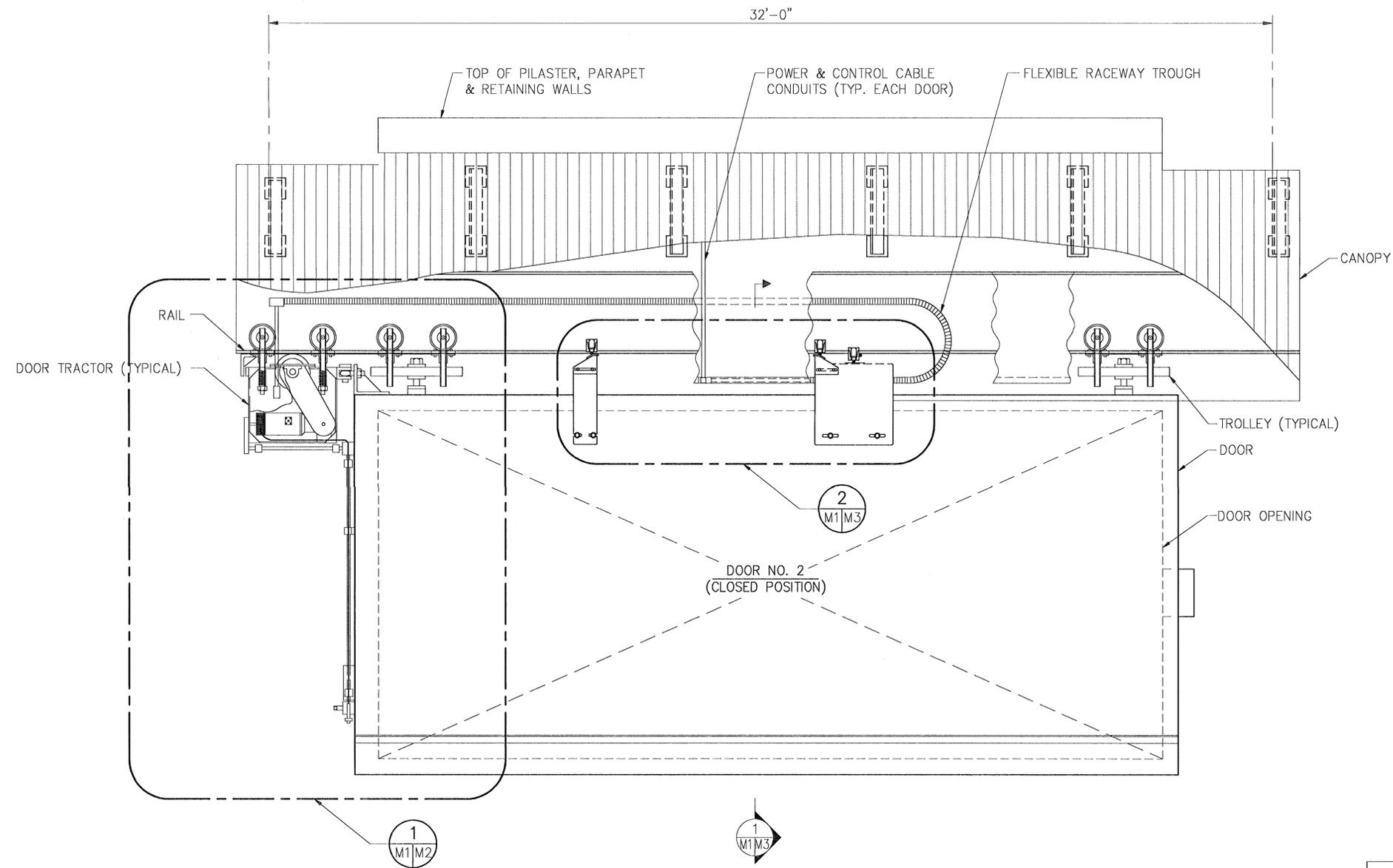


SECTION 7
SCALE: 3/4"=1'-0"
SECTION

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: [Signature] ENGINEER IN CHARGE: [Signature] BRANCH MANAGER: [Signature] CRITERIA MANAGER: [Signature] NAVFACENGD00M						
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' AIR INTAKE DETAILS						
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	6,448,545		S-24	
SCALE	AS NOTED	CONTRACT NO			SHEET 24 OF 33	
SATISFACTORY TO	DATE	CATEGORY CODE	SPEC NO			

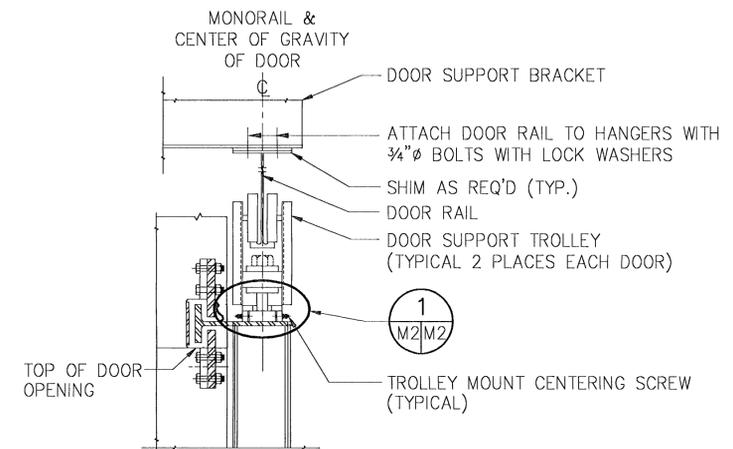
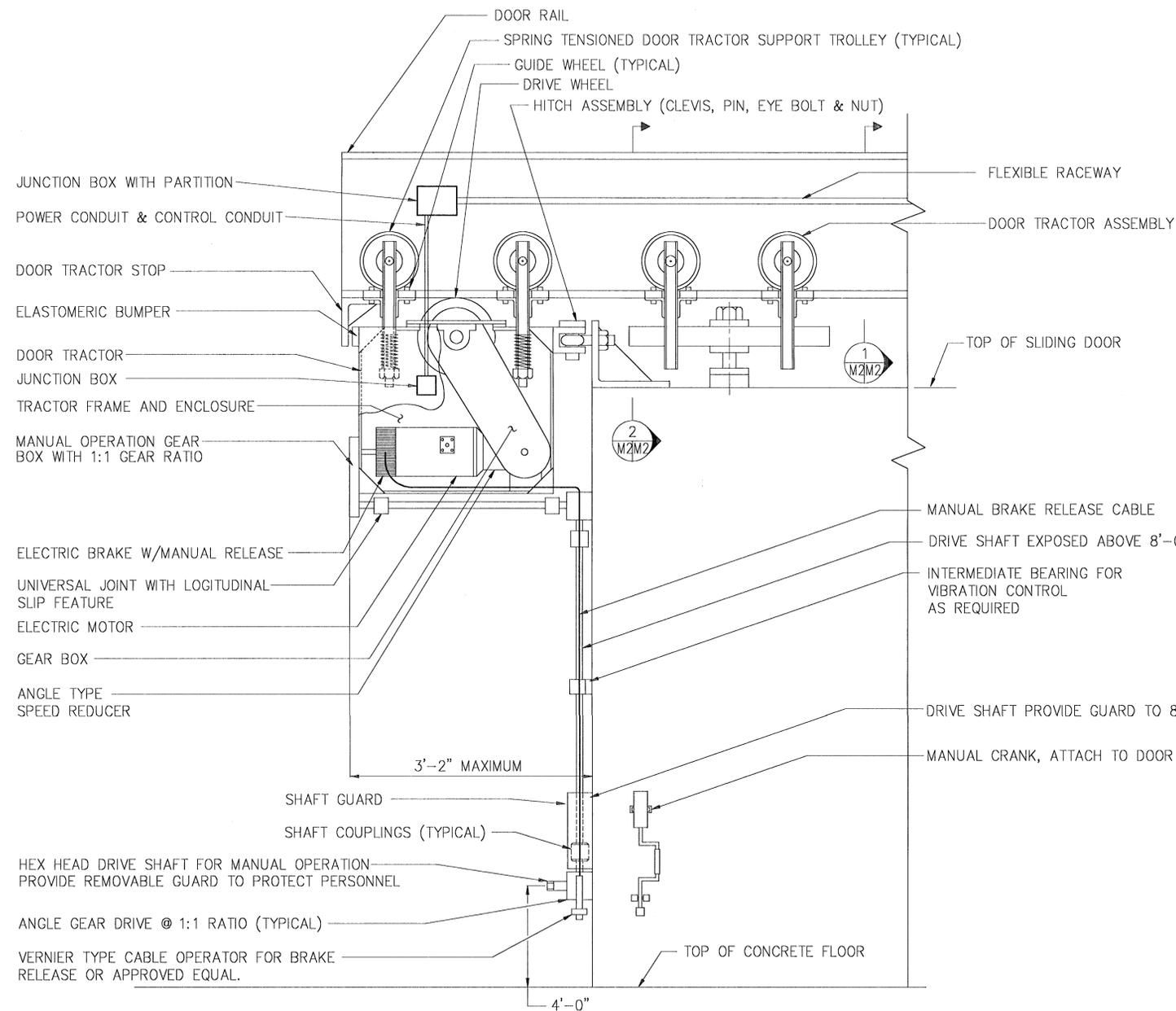


FRONT ELEVATION OF SLIDING DOOR

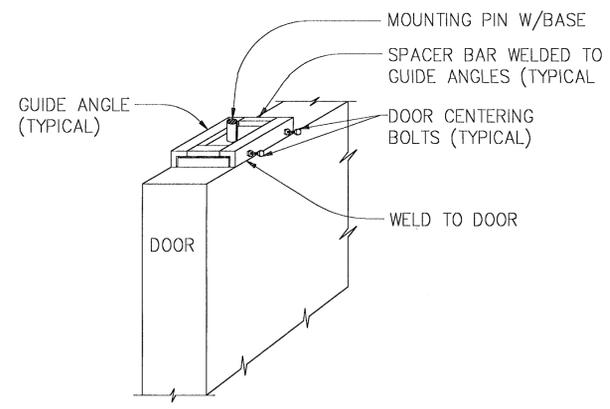
SCALE: NTS

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 98 MORTON ST., NEW YORK, NY 10014 DATE: 27/5/97 ENGINEER IN CHARGE: <i>[Signature]</i> CRITERIA MANAGER: <i>[Signature]</i> NAVFACENCOM					
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' ELEVATION OF SLIDING DOOR OPERATOR					
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	6,448,546		M-1
D	80091	SCALE: 1/8" = 1'-0"		CONTRACT NO	SHEET 25
SATISFACTORY TO		DATE	CATEGORY CODE	SPEC NO	OF 33

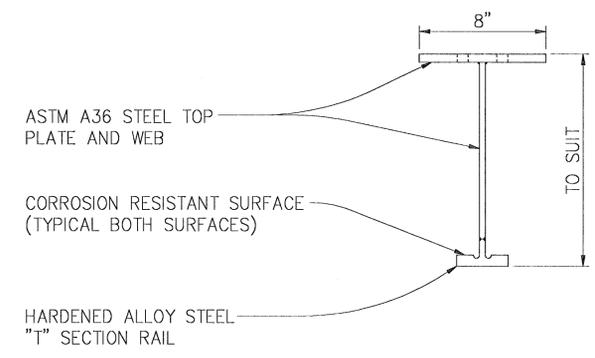


SECTION 2
SCALE: NTS



DETAIL 1
SCALE: NTS

DETAIL 1
SCALE: NTS

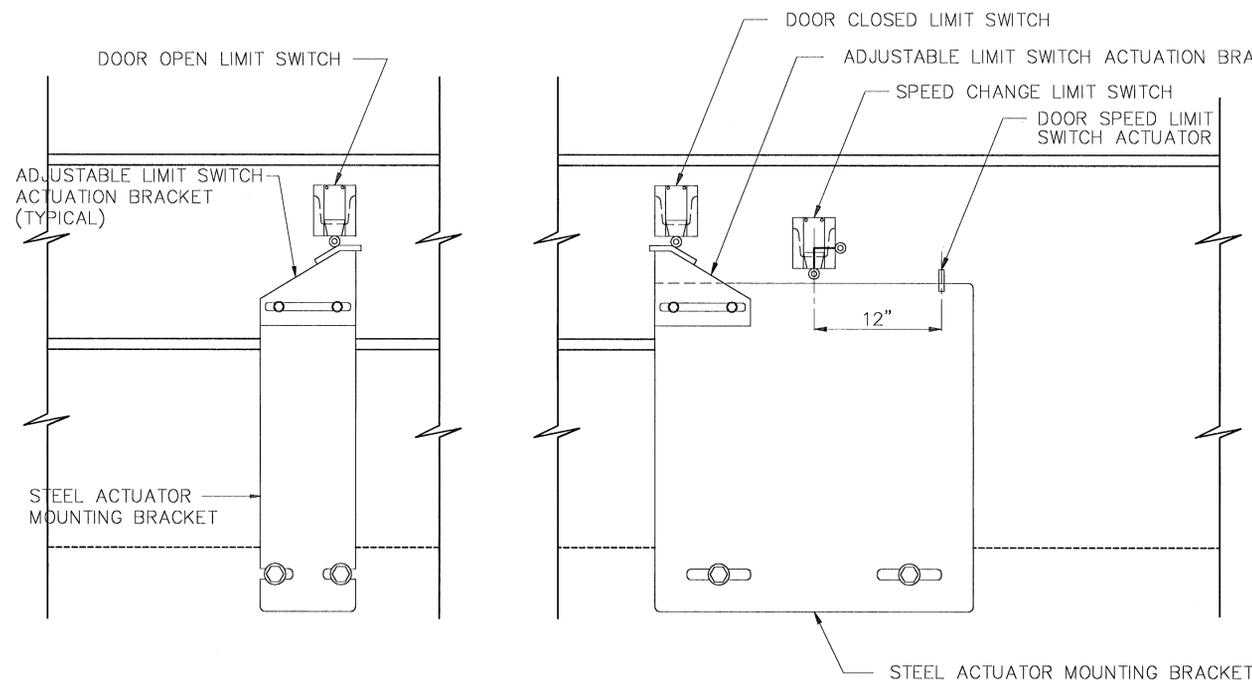


SECTION 1
SCALE: NTS

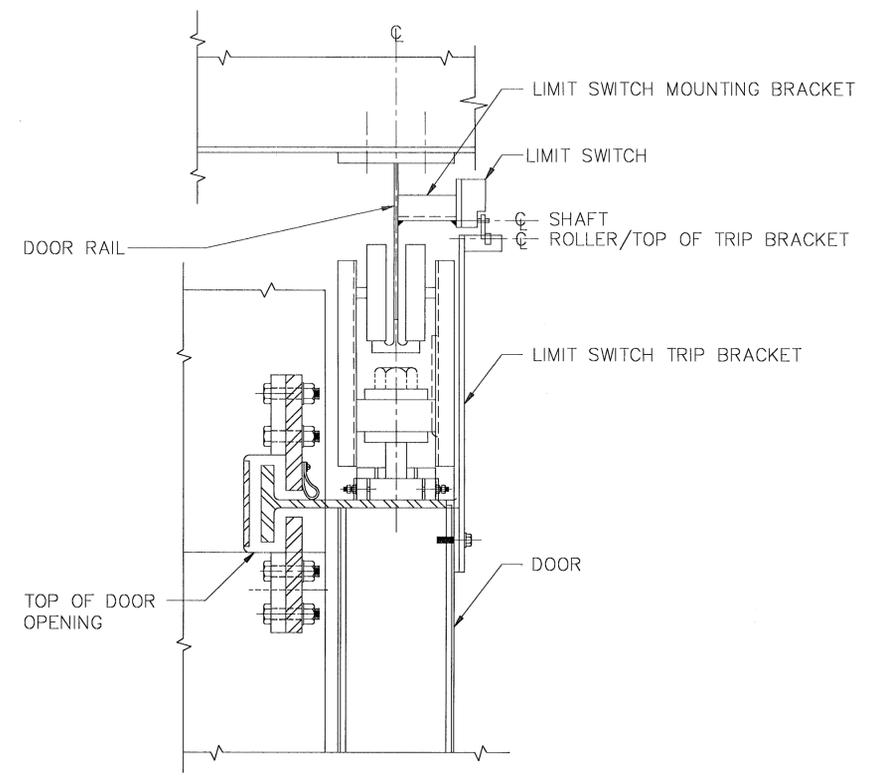
IF SHEET IS LESS THAN (22" x 34") IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

- 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.

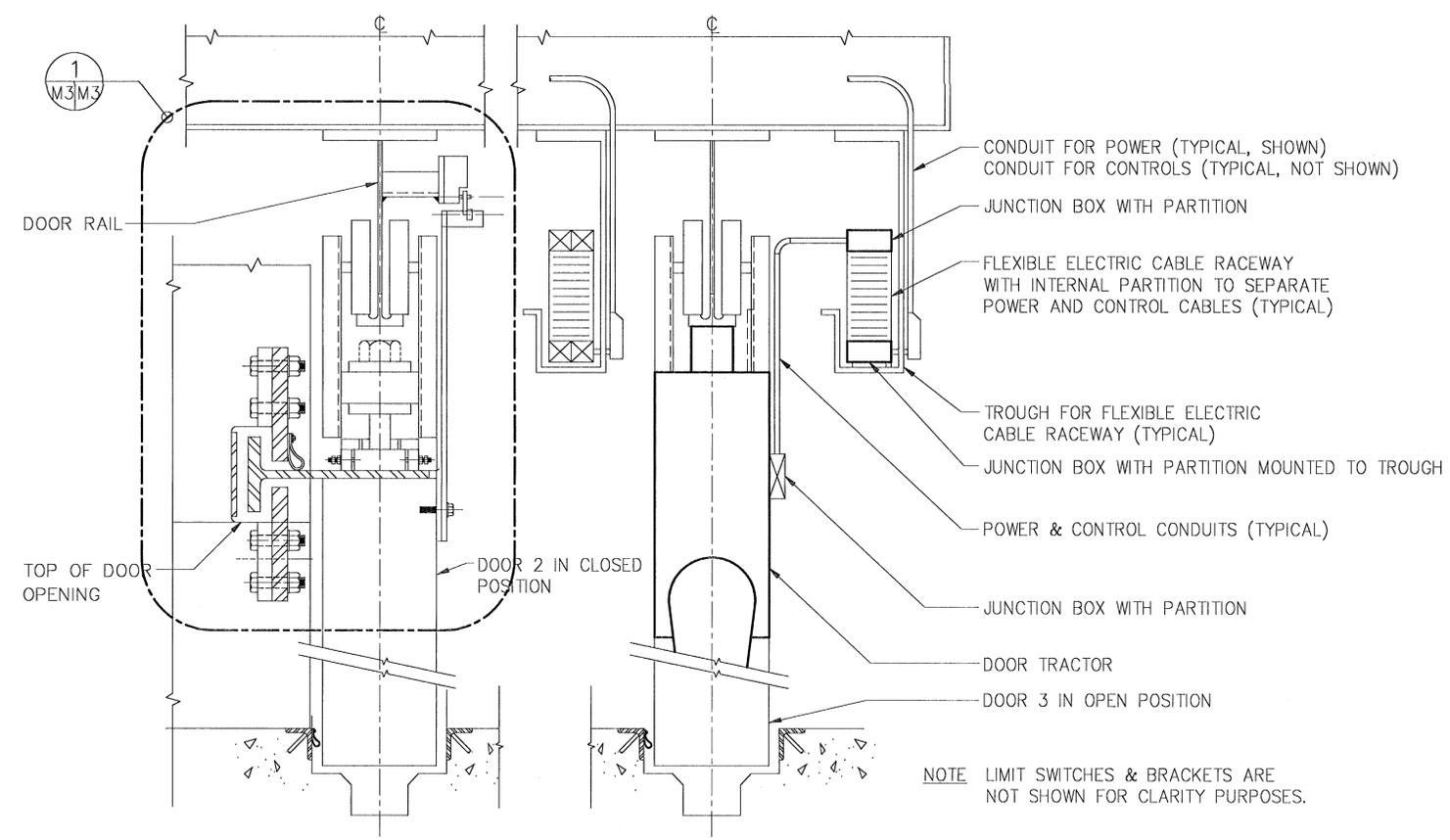
SYMBOL		DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS					
<p>AMMANN & WHITNEY CONSULTING ENGINEERS 95 AVENUE ST., NEW YORK, NY 10014</p> <p>DATE: 27/5/97</p> <p>ENGINEER IN CHARGE: <i>R. Brady</i> BRANCH MANAGER: <i>K. Kordak</i></p> <p>CRITERIA MANAGER: <i>R. Brady</i> DIVISION DIRECTOR: <i>A. Dreyfus</i></p> <p>NAVFAENSCOM</p>					
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350					
NAVAL FACILITIES ENGINEERING COMMAND					
STANDARD DRAWING					
STANDARD BOX MAGAZINE TYPE 'D'					
SLIDING DOOR TRACTOR AND DOOR MOUNTING DETAILS					
SIZE	CODE IDENT NO	NAVAC DRAWING NUMBER			
D	80091	6,448,547	M-2		
SCALE	1/8" = 1'-0"	CONTRACT NO			
APPROVED	DATE	SPEC NO			
SHEET 26					
SP 33					



DETAIL 2
SCALE: NTS
M1/M3



DETAIL 1
SCALE: NTS
M3/M3



SECTION 1
SCALE: NTS
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 96 JEROME ST., NEW YORK, NY 10014 DATE: 27/5/97 ENGINEER IN CHARGE: <i>Ron Brady</i> CRITERIA MANAGER: <i>R. Brady</i> NAVFACENCOM DIVISION DIRECTOR: <i>A. Jayakumar</i>					
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350					
NAVAL FACILITIES ENGINEERING COMMAND					
STANDARD DRAWING					
STANDARD BOX MAGAZINE TYPE 'D'					
SLIDING DOOR POWER AND CONTROL EQUIPMENT DETAILS					
SIZE	CODE/DRWT NO	NAVFAC DRAWING NUMBER			
D	80091	6,448,548			
SCALE	CONTRACT NO	SHEET			
1/8" = 1'-0"		27			
CATEGORY CODE	SPEC NO	OF			
		33			

ELECTRICAL LEGEND AND ABBREVIATIONS

ELECTRICAL LEGEND:

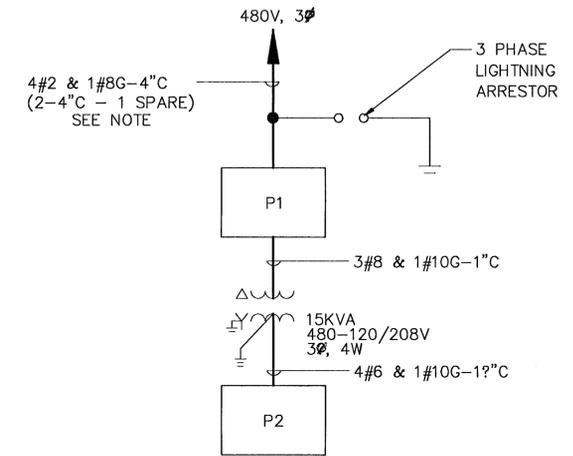
<p>A 100W FLUORESCENT LIGHT FIXTURE FOR HAZADOUS LOCATIONS (SURFACE MOUNTED)</p> <p>⊖ B 250W HPS OUTDOOR LIGHT FIXTURE (WALL MOUNTED FLOODLIGHT)</p> <p>⊖ 20A, 125V, 2P, 3W GROUNDING TYPE DUPLEX RECEPTACLE MTD 1'-6" AFF</p> <p>⊖ MAIN TELEPHONE ID, FA TERMINAL CABINET IN A NEMA 4X ENCLOSURE</p> <p>⊖ 277/480V,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

ABBREVIATIONS:

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



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.

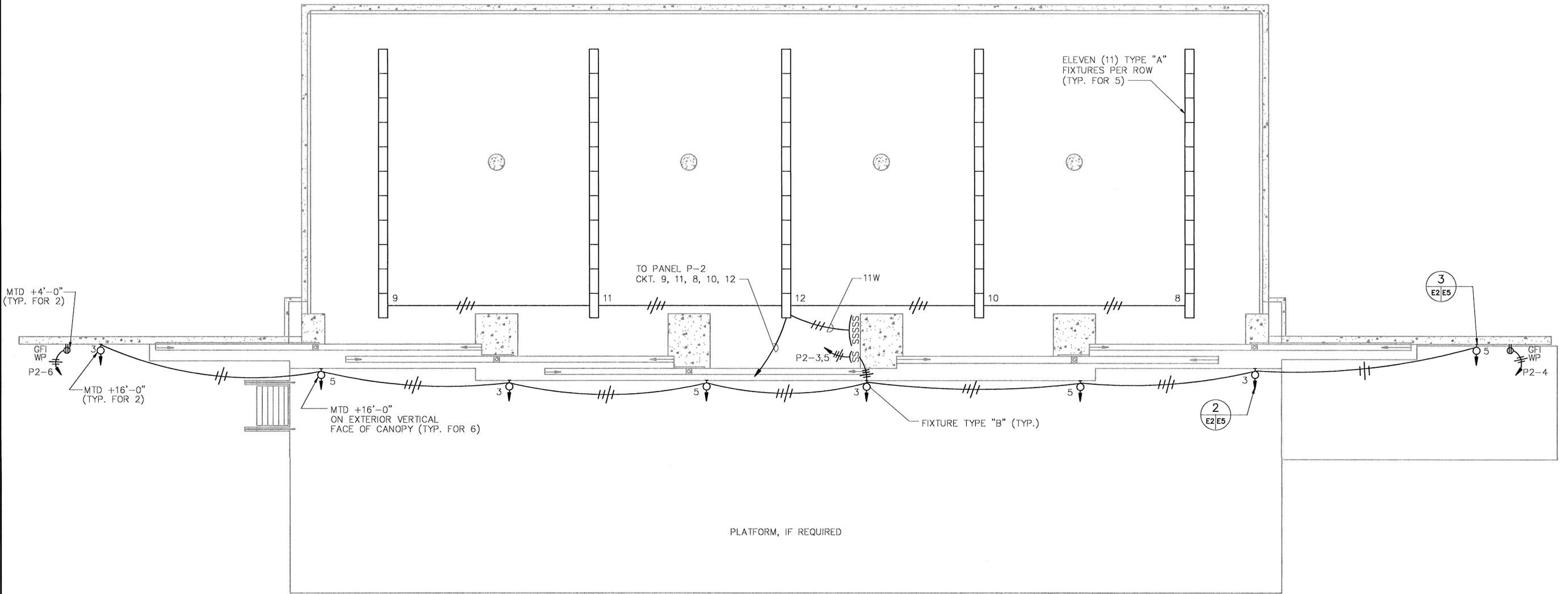
LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	LAMP DATA				MTG.	REMARKS
	TYPE	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

SATISFACTORY TO	DATE	FOR COMMANDER NAVFACINCOM
TITLE	DATE	FOR COMMANDER NAVFACINCOM

AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014 27/5/97 DATE		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350	
ENGINEER IN CHARGE <i>[Signature]</i>		BRANCH MANAGER <i>[Signature]</i>	
DESIGNER <i>[Signature]</i>		DIVISION DIRECTOR <i>[Signature]</i>	
NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' LEGEND, NOTES, ABBREVIATIONS, SINGLE LINE DIAGRAM			
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	
D	80091	6,448,549	E-1
SCALE	AS NOTED	CONTRACT NO	SHEET 28 OF 33
CATEGORY CODE		SPEC NO	



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

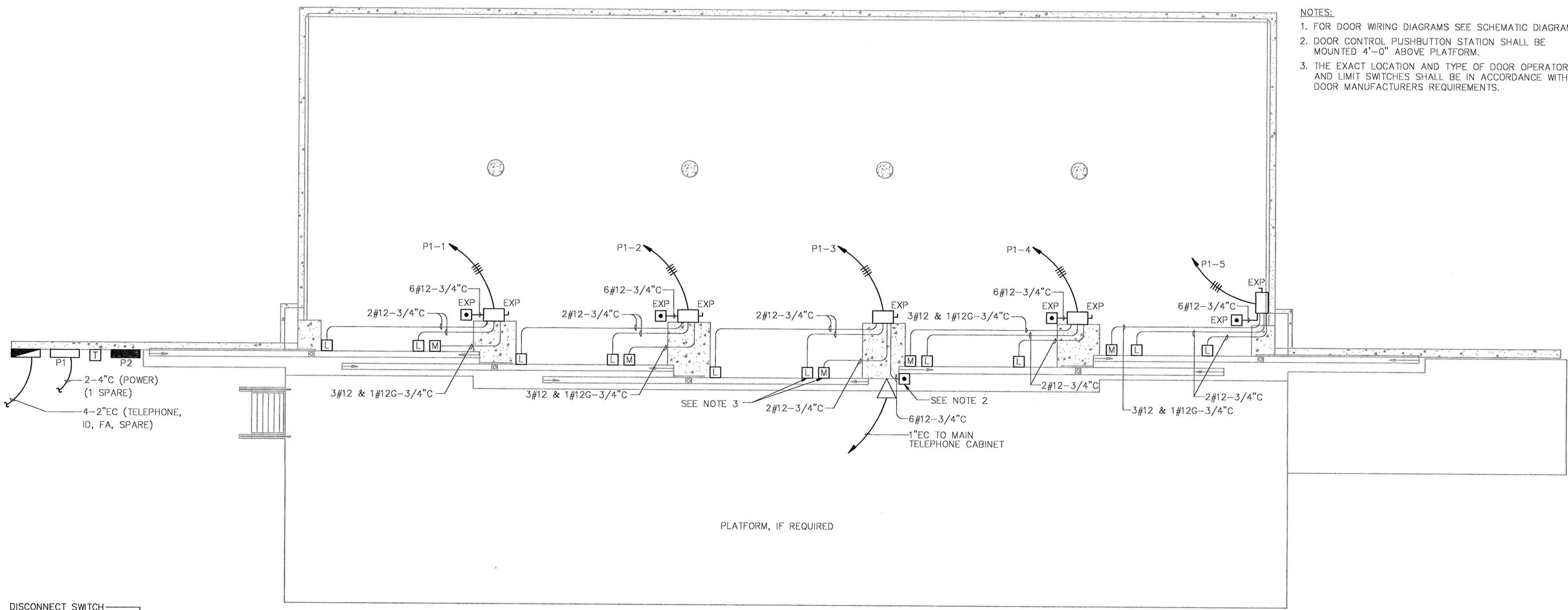
NOTE:
ALL INTERIOR ELECTRICAL EQUIPMENT
& SYSTEMS TO BE EXPLOSION PROOF.

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

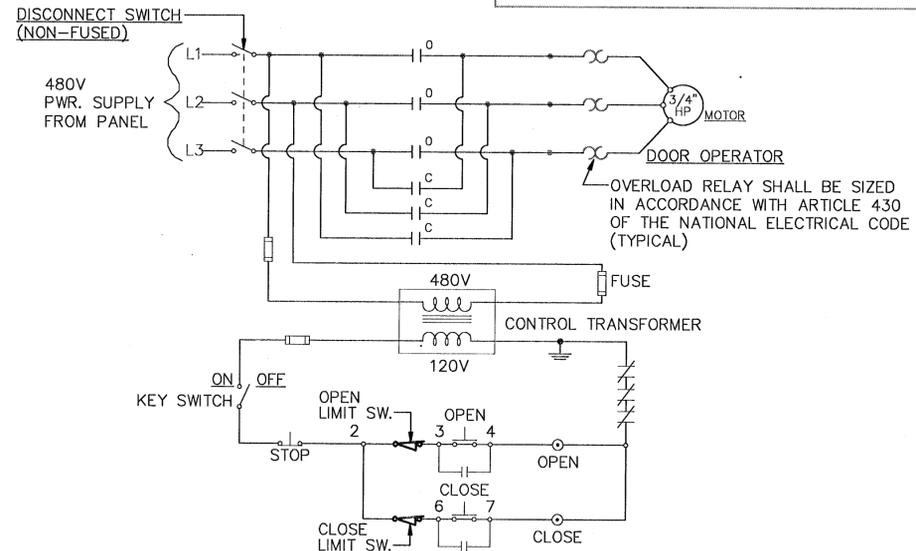
4' 0 10' 20'
1/8" = 1'-0"

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>[Signature]</i> ENGINEER IN CHARGE: <i>[Signature]</i> CRITERIA MANAGER: <i>[Signature]</i> NAVFACENCOM						
DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' LIGHTING AND RECEPTACLES PLAN						
SIZE	CODE IDENT NO	NAVFAC DRAWING NUMBER	CONTRACT NO		SHEET 29 OF 33	
D	80091	6,448,550	E-2			
SCALE	AS NOTED	SPEC NO				
FIRE PROTECTION ENGINEER: _____ DATE: _____ CRITERIA MANAGER: _____ DATE: _____ APPROVED: _____ DATE: _____ TITLE: _____ DATE: _____ FOR COMMANDER NAVFACENCOM						

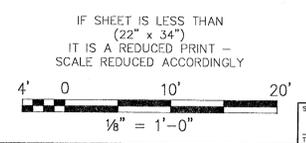
- NOTES:
1. FOR DOOR WIRING DIAGRAMS SEE SCHEMATIC DIAGRAM.
 2. DOOR CONTROL PUSHBUTTON STATION SHALL BE MOUNTED 4'-0" ABOVE PLATFORM.
 3. THE EXACT LOCATION AND TYPE OF DOOR OPERATOR AND LIMIT SWITCHES SHALL BE IN ACCORDANCE WITH DOOR MANUFACTURERS REQUIREMENTS.



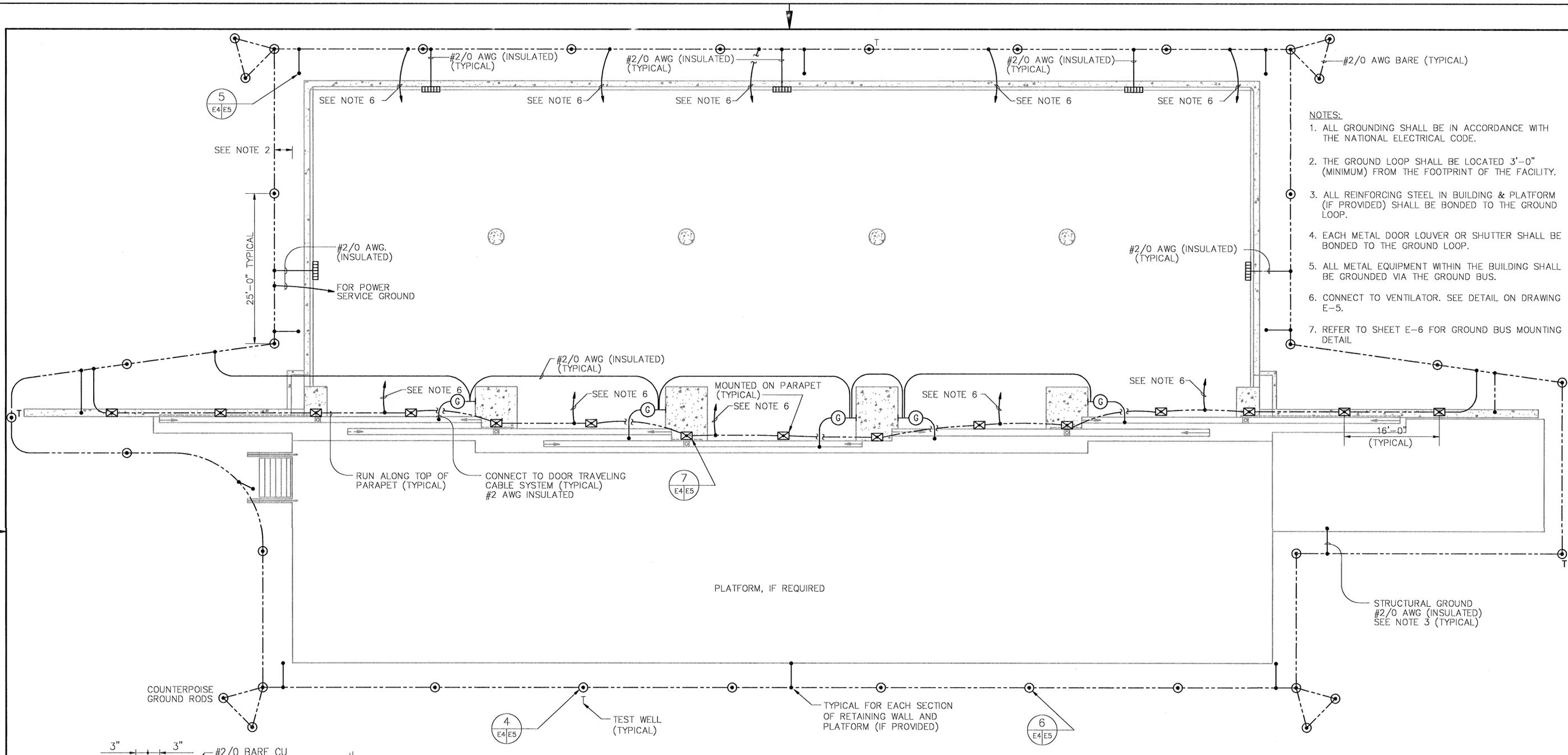
FLOOR PLAN
SCALE: 1/8" = 1'-0"



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

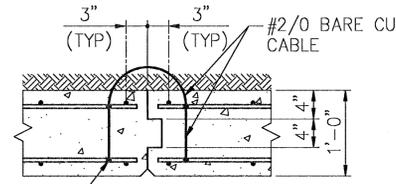


SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
<p>AMMANN & WHITNEY CONSULTING ENGINEERS 88 HORTON ST., NEW YORK, NY 10014</p> <p>27/5/97</p> <p>ENGINEER IN CHARGE: <i>R. Brody</i> BRANCH MANAGER: <i>M. Mours</i> CRITICA MANAGER: <i>R. Brody</i> DIVISION DIRECTOR: <i>R. Brody</i></p>				
<p>DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350</p> <p>NAVAL FACILITIES ENGINEERING COMMAND</p> <p>STANDARD DRAWING</p> <p>STANDARD BOX MAGAZINE TYPE 'D'</p> <p>POWER AND AUXILIARY SYSTEM PLAN</p>				
SIZE	CODE (DONT NO)	NAVFAC DRAWING NUMBER	<p>DATE</p> <p>DATE</p> <p>DATE</p>	
D	80091	6,448,551	<p>FOR COMMANDER NAVFACNSGCOM</p>	
SCALE	AS NOTED	CONTRACT NO	<p>SHEET 30 OF 33</p>	
CATEGORY CODE		SPEC NO		

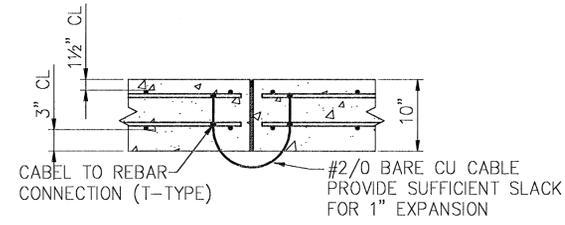


- NOTES:**
1. ALL GROUNDING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
 2. THE GROUND LOOP SHALL BE LOCATED 3'-0" (MINIMUM) FROM THE FOOTPRINT OF THE FACILITY.
 3. ALL REINFORCING STEEL IN BUILDING & PLATFORM (IF PROVIDED) SHALL BE BONDED TO THE GROUND LOOP.
 4. EACH METAL DOOR LOUVER 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"

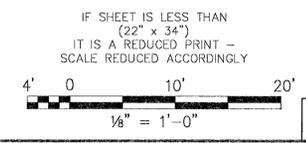


TYPICAL AT EACH CONSTRUCTION JOINT IN PLATFORM RETAINING WALL
N.T.S.



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

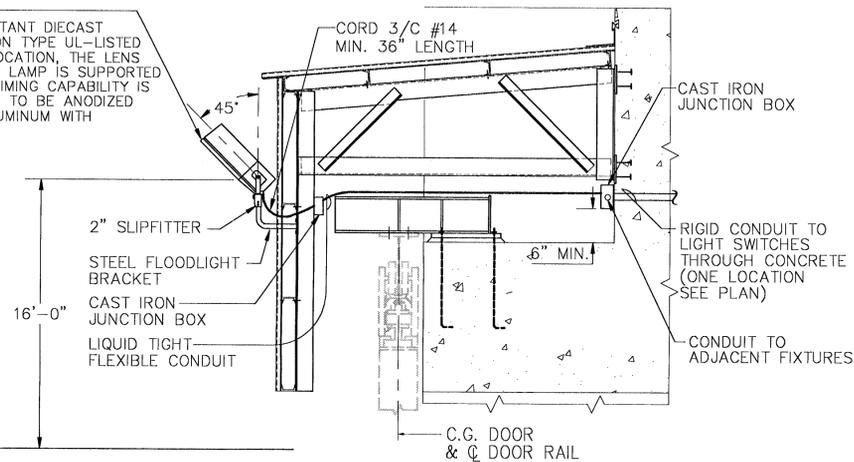
EACH PLATFORM (WHERE PROVIDED) PANEL ALONG EXTERIOR BLDG WALL SHALL BE BONDED TO PANEL (10) ALONG PLATFORM EDGE. ADJACENT EDGE PANELS SHALL BE BONDED AND EVERY SECOND PANEL (10 TOTAL) SHALL BE BONDED TO GROUND LOOP. ADJACENT RETAINING WALL SECTION SHALL BE BONDED ACROSS CONSTRUCTION JOINT AND EVERY SECOND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



SYMBOL		DESCRIPTION		PREP'D BY	DATE	APPROVED
REVISIONS						
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014		DEPARTMENT OF THE NAVY		WASHINGTON, D.C. 20350		
27/5/97		NAVAL FACILITIES ENGINEERING COMMAND				
PRINCIPAL ENGINEER		STANDARD DRAWING				
ENGINEER IN CHARGE		STANDARD BOX MAGAZINE TYPE 'D'				
CRITERIA MANAGER		LIGHTNING PROTECTION AND GROUNDING PLAN				
NAVAFENSCOM		SIZE	CODE IDENT NO	NAVAF DRAWING NUMBER	E-4	
DATE		D	80091	6,448,552	SHEET 31 OF 33	
DATE		SCALE	AS NOTED	CONTRACT NO	SPEC NO	
DATE		CATEGORY CODE				

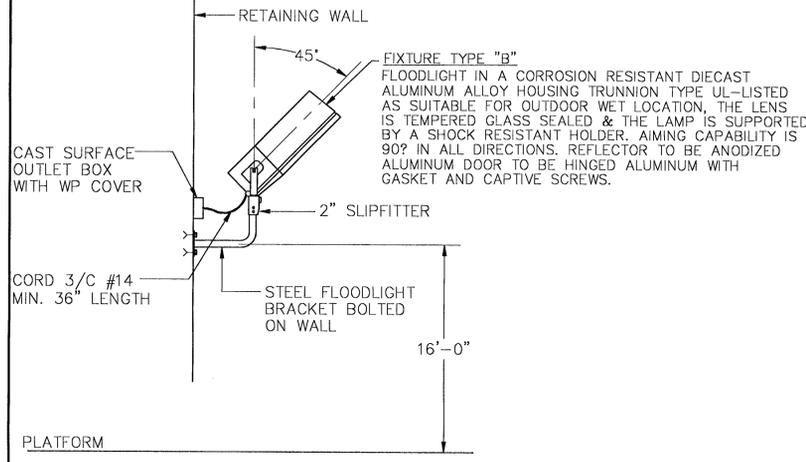
FIXTURE TYPE "B"

FLOODLIGHT IN A CORROSION RESISTANT DIECAST ALUMINUM ALLOY 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.



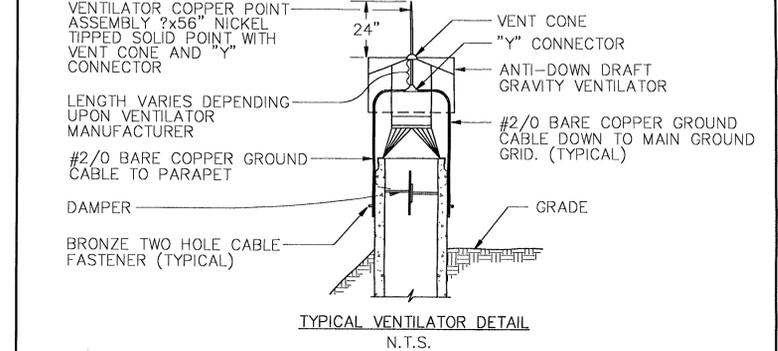
EXTERIOR FLOODLIGHT DETAIL

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

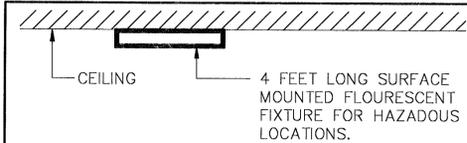


EXTERIOR FLOODLIGHT DETAIL

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



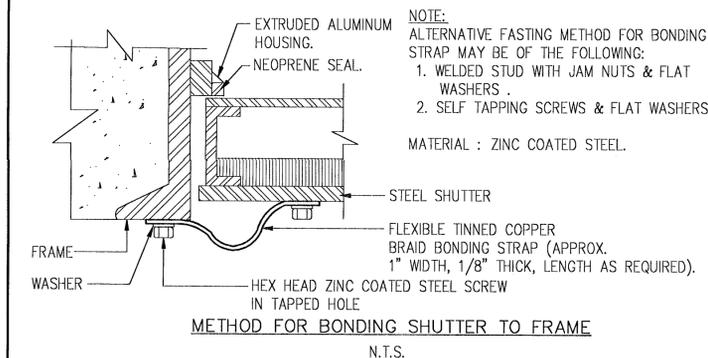
TYPICAL VENTILATOR DETAIL
N.T.S.



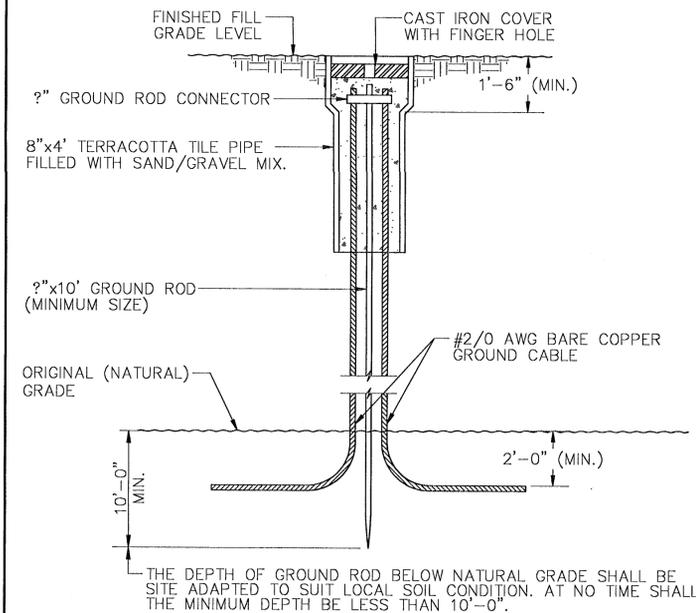
- NOTES:
- LUMINAIRE SHALL MEET UL844 OR FACTORY MUTUAL STANDARD FOR HAZARDOUS LOCATIONS.
 - LUMINAIRE SHALL HAVE
 - LOW TEMPERATURE BALLASTS, 34 WATT LAMPS AND 120V OPERATING VOLTAGE.
 - TWO HEAVY DUTY IMPACT RESISTANT GLASS LAMP TUBES.
 - FACTORY WIRED, ASSEMBLED AND SEALED.
 - STAINLESS STEEL WIRE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

INTERIOR LIGHTING FIXTURE TYPE "A"

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

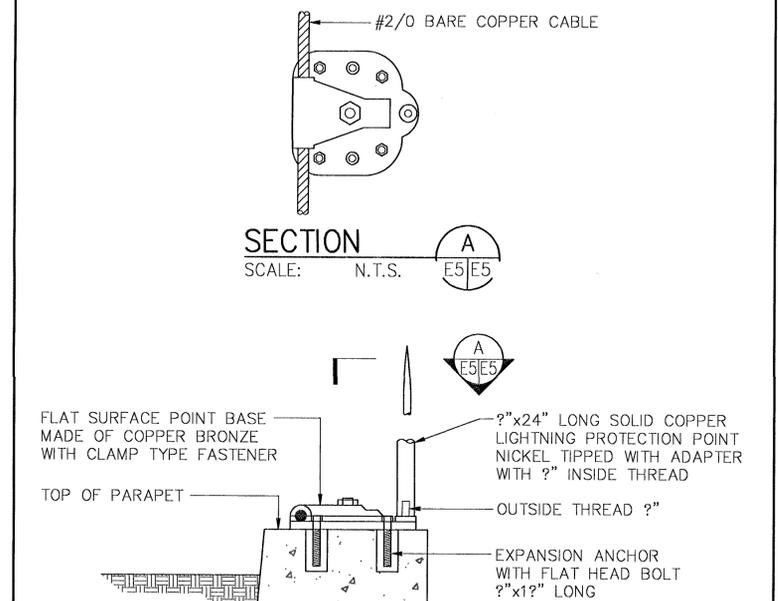


METHOD FOR BONDING SHUTTER TO FRAME
N.T.S.

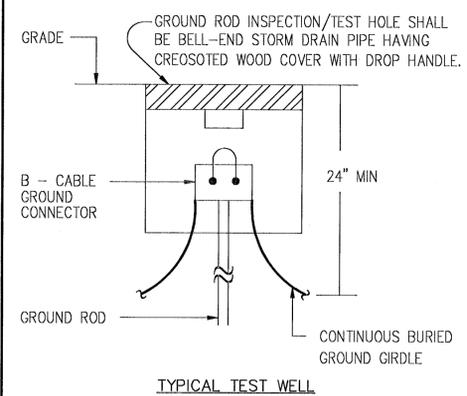


GROUND ROD INSTALLATION IN EARTH FILL

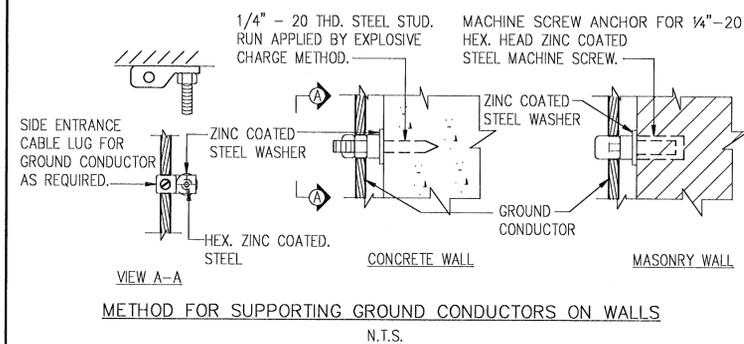
DETAIL 6
SCALE: N.T.S. E4/E5



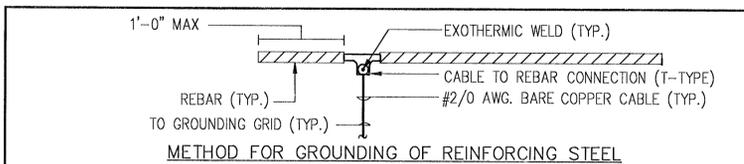
DETAIL 7
SCALE: N.T.S. E4/E5



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

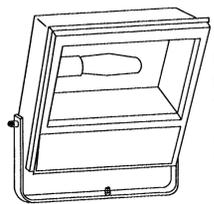
SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
<p>AMMANN & WHITNEY CONSULTING ENGINEERS 98 WASHINGTON ST., NEW YORK, NY 10014 DATE: 27/5/97</p> <p>PRINCIPAL PARTNER: <i>[Signature]</i> ENGINEER IN CHARGE: <i>[Signature]</i> CATERIA MANAGER: <i>[Signature]</i> MANAGER/ENGINEER: <i>[Signature]</i></p> <p>DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350</p> <p>NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' ELECTRICAL DETAILS</p>				
SIZE: D	CODE IDENT NO: 80091	NAV FAC DRAWING NUMBER: 6,448,553	E-5	
SCALE: AS NOTED	CONTRACT NO:	SHEET 32 OF 33		

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	

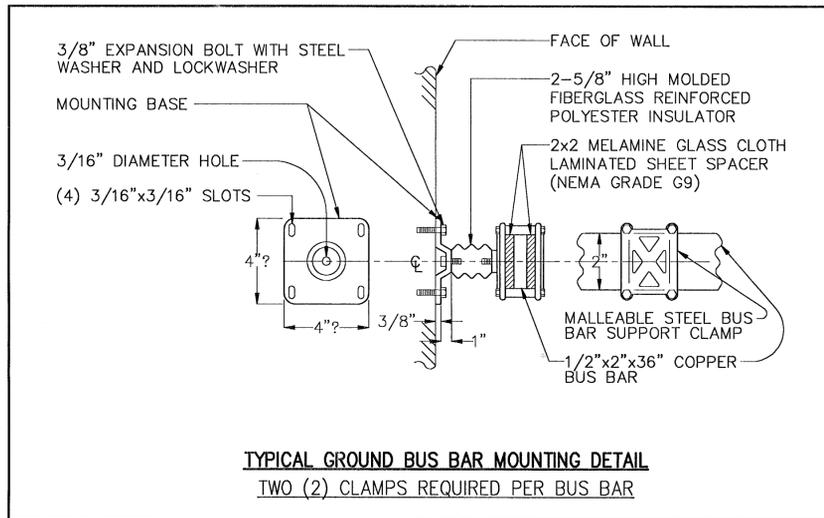


NOTE:
NEMA BEAM SPREAD CONFIGURATION SHALL BE AS SPECIFIED AND SHALL BE IN ACCORDANCE WITH I.E.S. DEFINITIONS.

LUMINAIRE REQUIREMENTS

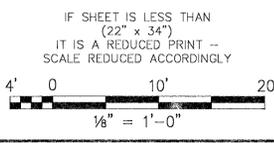
- HOUSING - DIE CAST ALUMINUM.
- REFLECTOR - ANODIZED OR ALZAK ALUMINUM.
- DOOR - HINGED ALUMINUM, WITH GASKET AND CAPTIVE SCREWS.
- INTEGRAL MULTI-TAP BALLAST.
- STAINLESS STEEL OR NONCORROSIVE HARDWARE.
- PORCELAIN SOCKET.
- MINIMUM 36" 3/C #14 "SO" CORD.
- UL "WET LABEL"

**FIXTURE TYPE "B"
FLOODLIGHT DETAIL**



LIGHTING PANEL NO. P2 120/208 v. 3ø 4 W + GRD _____ A. SYM. I.C.
MAINS 100 AMPS. MAINBREAKER 100 AMPS.

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. RECEPTS.
EXT. LIGHTING	1200	20	5	6	20	200	EXT. RECEPTS.
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



SYMBOL	DESCRIPTION	PREP'D BY	DATE	APPROVED
REVISIONS				
AMMANN & WHITNEY CONSULTING ENGINEERS 96 MADISON ST., NEW YORK, NY 10014 DATE: 27/5/97 PRINCIPAL ENGINEER: <i>[Signature]</i> ENGINEER IN CHARGE: <i>[Signature]</i> CRITERIA MANAGER: <i>[Signature]</i> NAVFACENCOM		DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'D' PANEL SCHEDULES & DETAIL		
FIRE PROTECTION ENGINEER CRITERIA MANAGER APPROVED TITLE: _____ DATE: _____	DATE: _____ DATE: _____ DATE: _____	SIZE: D SCALE: AS NOTED CATEGORY CODE: _____	CODE DONT NO: 80091 RAWAC DRAWING NUMBER: 6,448,554 CONTRACT NO: _____ SPEC NO: _____	E-6 SHEET 33 OF 33