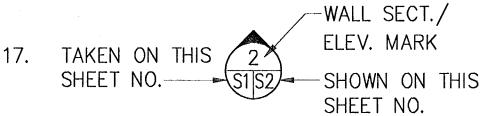
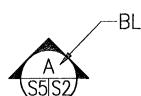
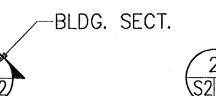
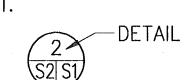
GENERAL NOTES:

- 1. 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.
- 2. ALL REINFORCING BARS SHALL CONFORM TO THE SPECIFICATION FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A615, GRADE 60.
- 3. CONCRETE AGGREGATE SHALL HAVE A MAXIMUM SIZE OF 3/4 INCH.
- 4. ALL REINFORCING BARS SHALL BE CONTINUOUS IN ANY ONE DIRECTION EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS.
- 5. NO WELDING OF REINFORCING BARS SHALL BE PERMITTED UNLESS INDICATED ON DRAWINGS.
- 6. ALL STRUCTURAL STEEL, METAL DOORS, EQUIPMENT, ETC. SHALL BE CONNECTED TO GROUND BUSES WITH #2 COPPER GROUND CABLE.
- 7. STRUCTURAL STEEL SHAPES, PLATES AND BARS SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL STEEL, ASTM DESIGNATION A36.
- 8. METAL ROOFING AND SIDING SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL SHEET STEEL, ASTM A446.
- 9. 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.
- 10. 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.
- 11. FOR FILLET WELD SIZES NOT SHOWN ON DRAWINGS, PROVIDE MINIMUM SIZE FILLET WELDS IN ACCORDANCE WITH WELDING CODE AWS D1.1, LATEST EDITION.
- 12. UNLESS SHOWN OTHERWISE, ALL REINFORCING BAR HOOKS SHALL BE STANDARD HOOKS IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR REINFOCRED CONCRETE AC1 318, LATEST EDITION.
- 13. 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.
- 14. 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.
- 15. 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.
- 16. 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.









SOIL DATA

MAGAZINE:

A. ALLOWABLE SOIL BEARING PRESSURE = 4.000 PSFALLOWABLE DYNAMIC RESPONSE FACTOR (SOIL BEARING) ALLOWABLE LATERAL SOIL PRESSURE COEFFICIENT a) MAGAZINE WALLS = 0.5b) WING WALLS = 0.3D. ALLOWABLE COEFFICIENT OF FRICTION (CONCRETE ON SOIL) = 0.50E. MODULUS OF SUBGRADE REACTION = 150 PCI - 250 PCI

DESIGN LOADS

STATIC LOADS:

A. ROOF DEAD LOAD (11/2 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 = 26,000 LBSMAXIMUM WHEEL LOAD = 65 SQ. IN.WHEEL CONTACT AREA C. PLATFORM AND RAMP LIVE LOAD = 1000 PSFD. 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

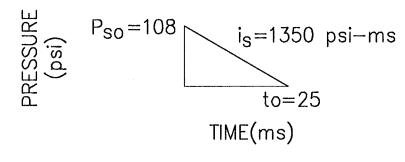
BLAST LOADS:

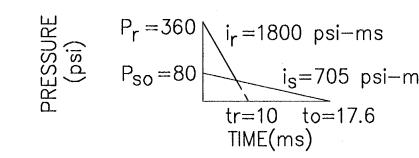
BASED ON INTERMAGAZINE SEPARATION DISTANCES FOR A QUANTITY (W) OF H.E. EQUAL TO 350,000 LBS AS FOLLOWS:

DONOR MAGAZINE LOCATED AT 2W $\frac{1}{3}$ TO THE REAR OF A. ROOF:

THE ACCEPTOR MAGAZINE. DONOR MAGAZINE LOCATED AT 2W 1/3 TO THE FRONT OF THE ACCEPTOR

MAGAZINE.





ROOF LOADING

HEAD WALL LOADING

DEFLECTION CRITERIA

C. HEADER BEAM $= 2^{\circ}$

D. PILASTERS $X_M/X_E = 3.0$

E. BLAST DOORS $= 12^{\circ}$

A. ROOF SLAB

B. HEAD WALL

MAXIMUM SUPPORT ROTATIONS OR DUCTILITY RATIO:

= 8°

STANDARD DRAWING NOTE:

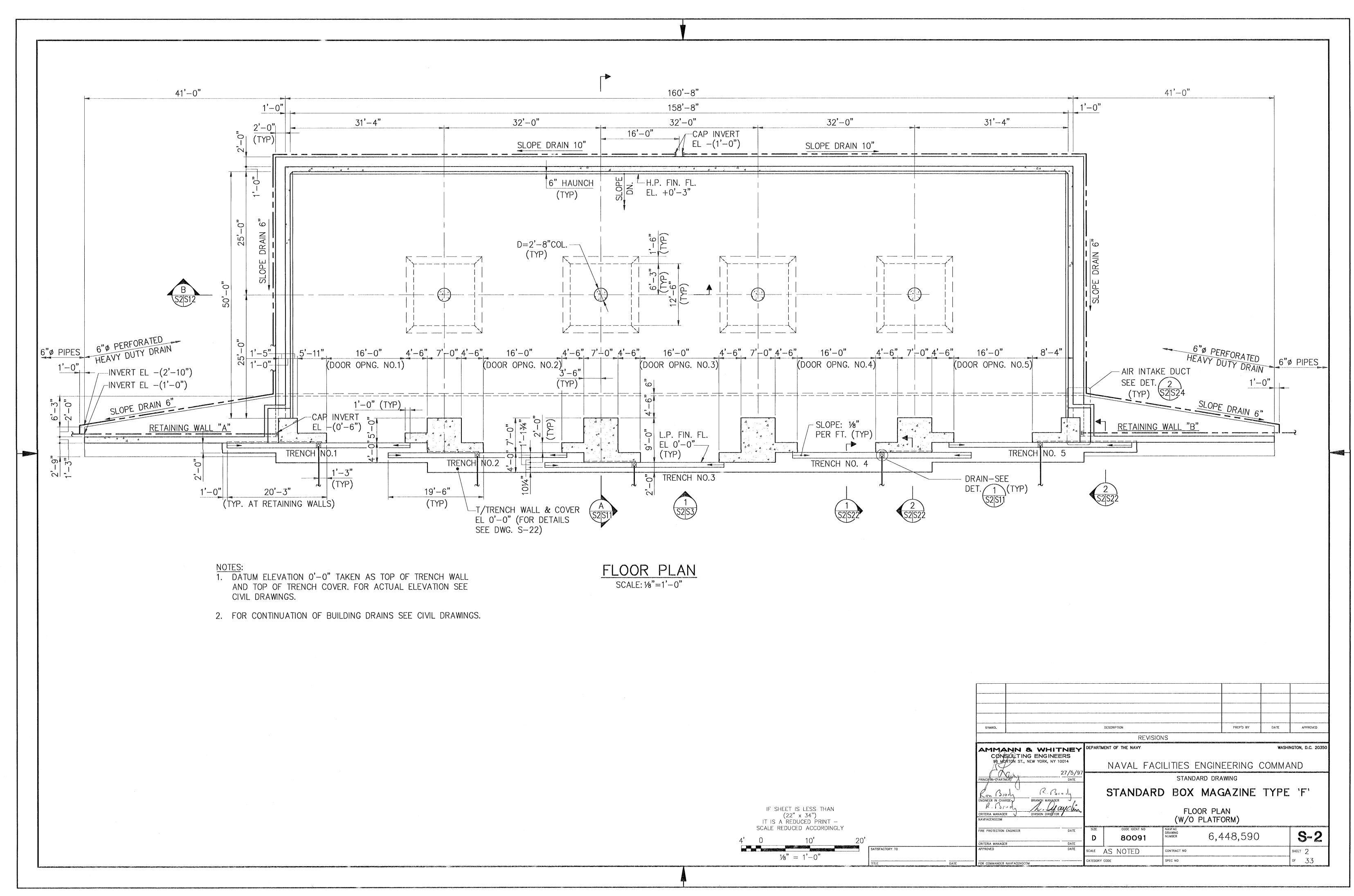
THIS DRAWING SET, NAVFAC DRAWINGS 6448589 THRU 6448621, WAS APPROVED AS THE STANDARD 7-BAR EARTH COVERED MAGAZINE DESIGN FOR THE TYPE F BOX MAGAZINE 27 MAY 1997.

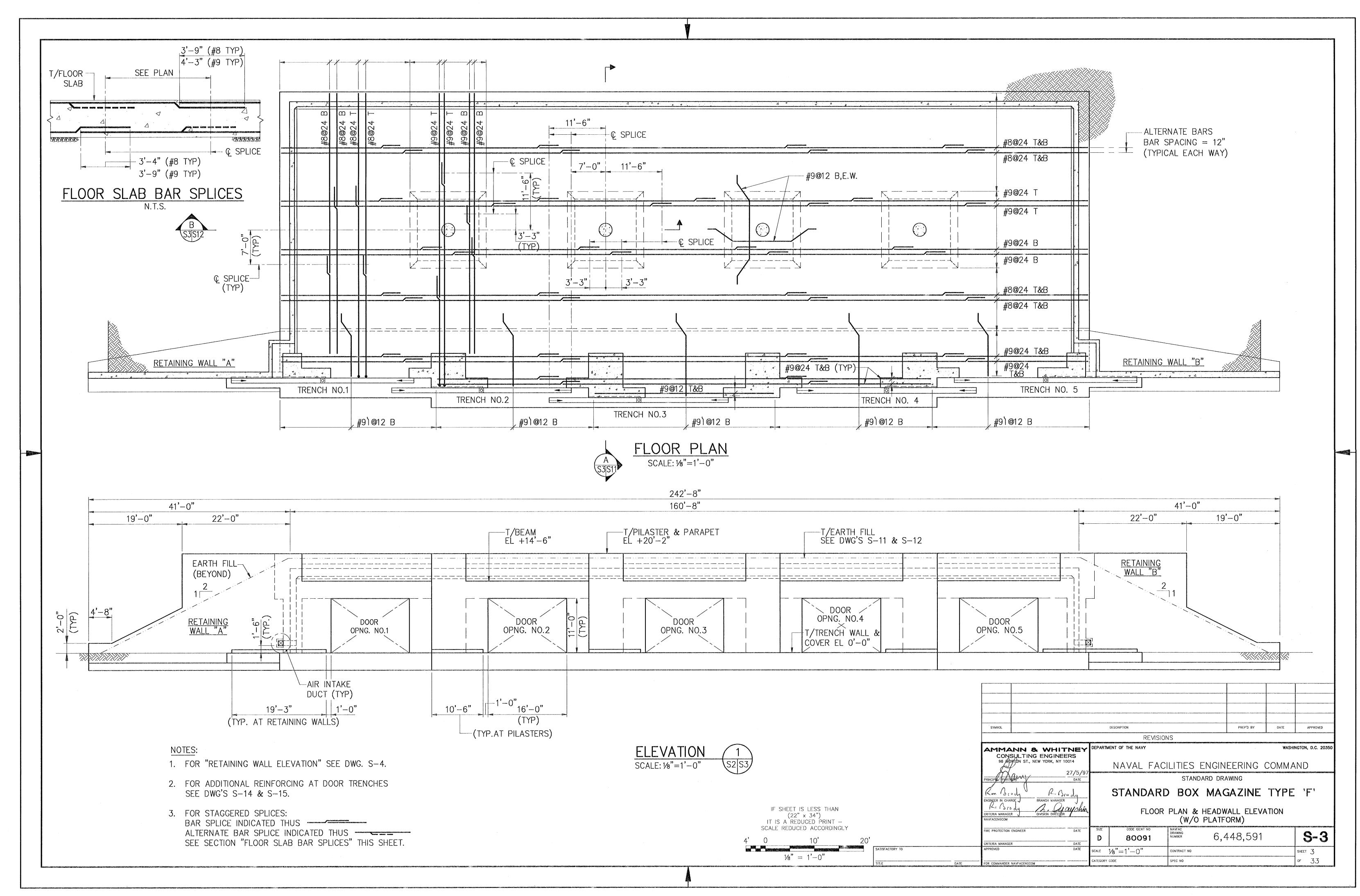
> IF SHEET IS LESS THAN $(22" \times 34")$ IT IS A REDUCED PRINT -SCALE REDUCED ACCORDINGLY

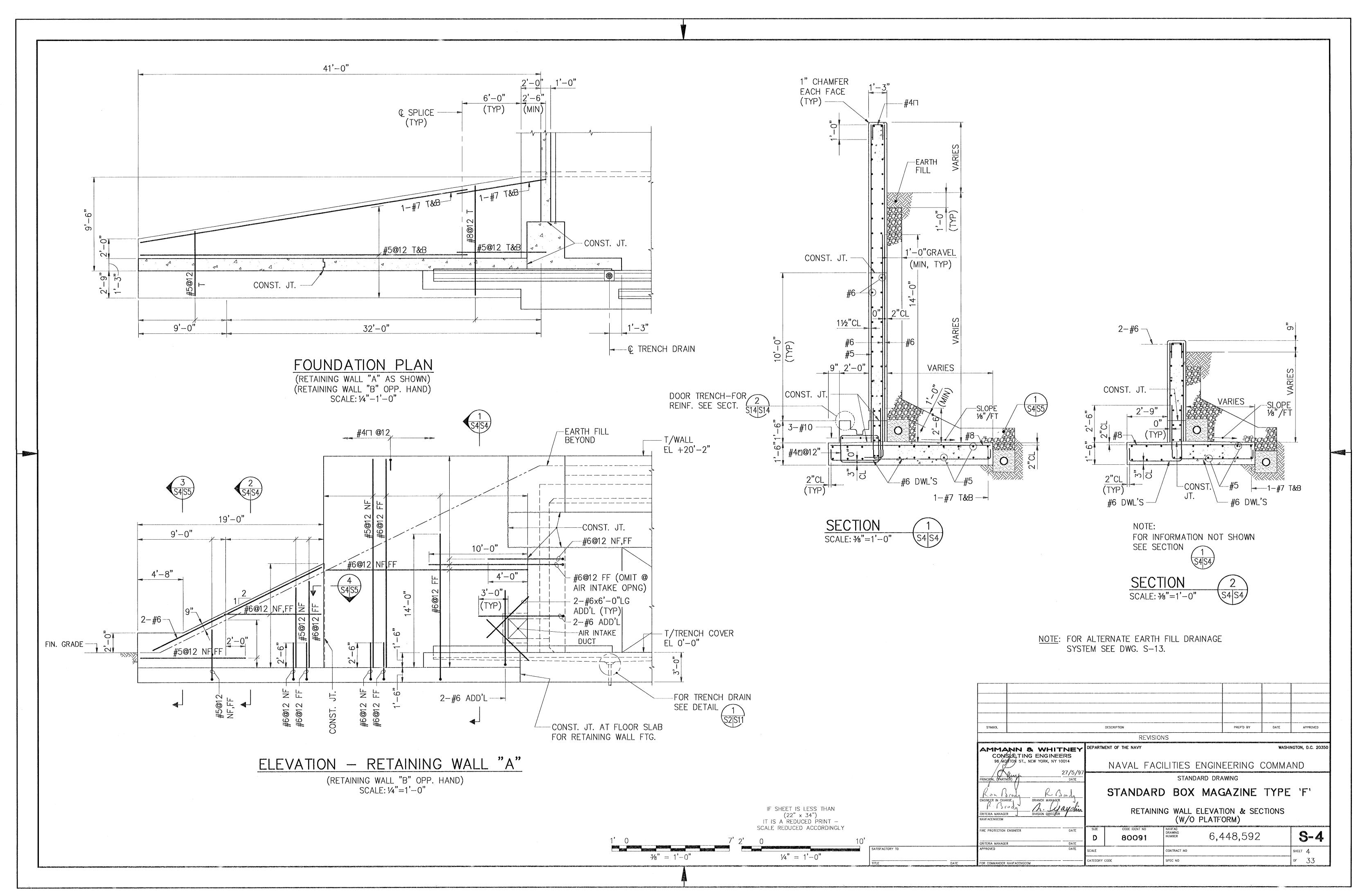
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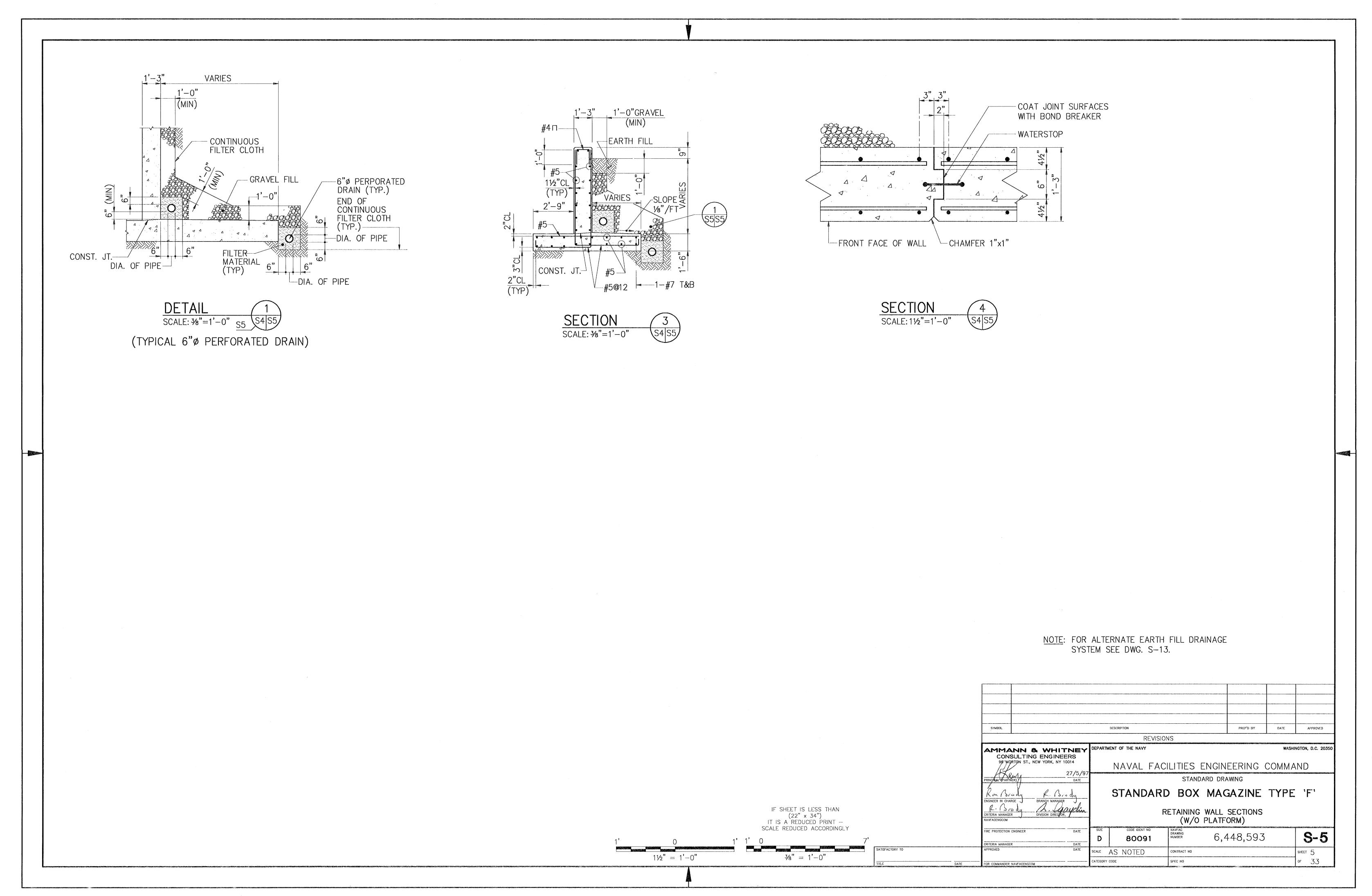
REVISIONS AMMANN & WHITNEY DEPARTMENT OF THE NAVY WASHINGTON, D.C. 20350 CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014 NAVAL FACILITIES ENGINEERING COMMAND STANDARD DRAWING STANDARD BOX MAGAZINE TYPE 'F' GENERAL NOTES (W/O PLATFORM) S-1 6,448,589 80091 SHEET 1 CONTRACT NO F 33 SPEC NO

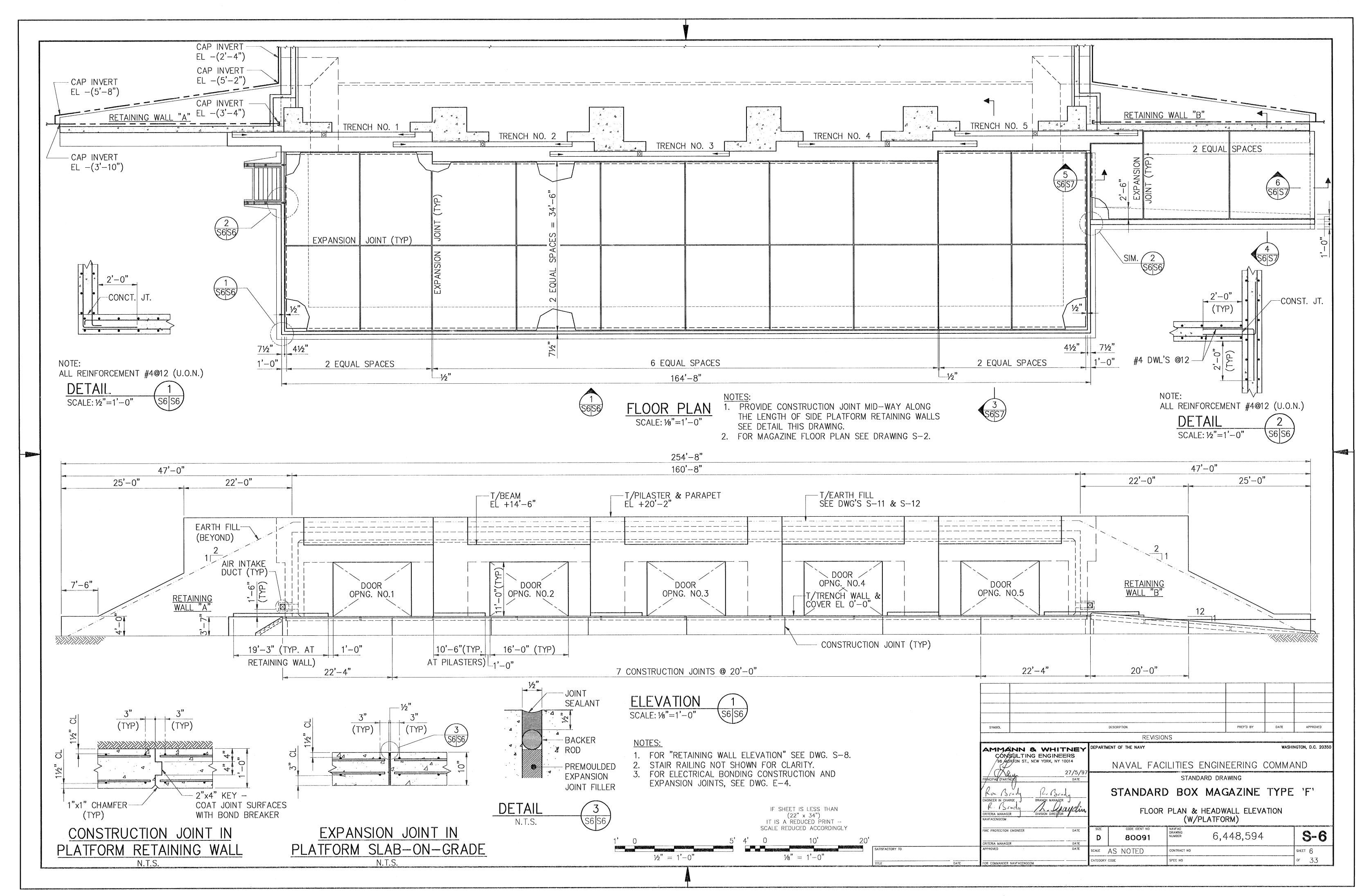
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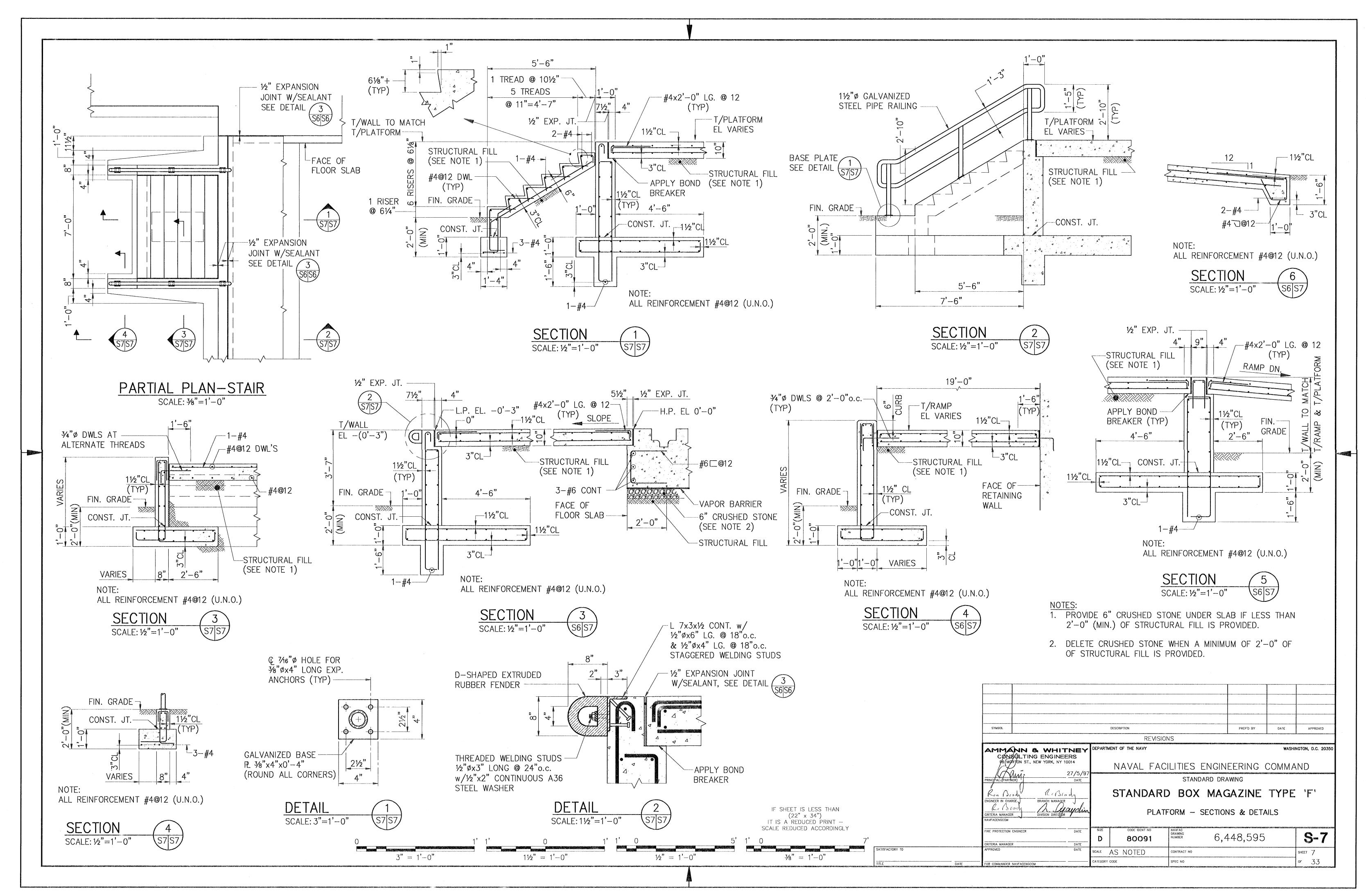


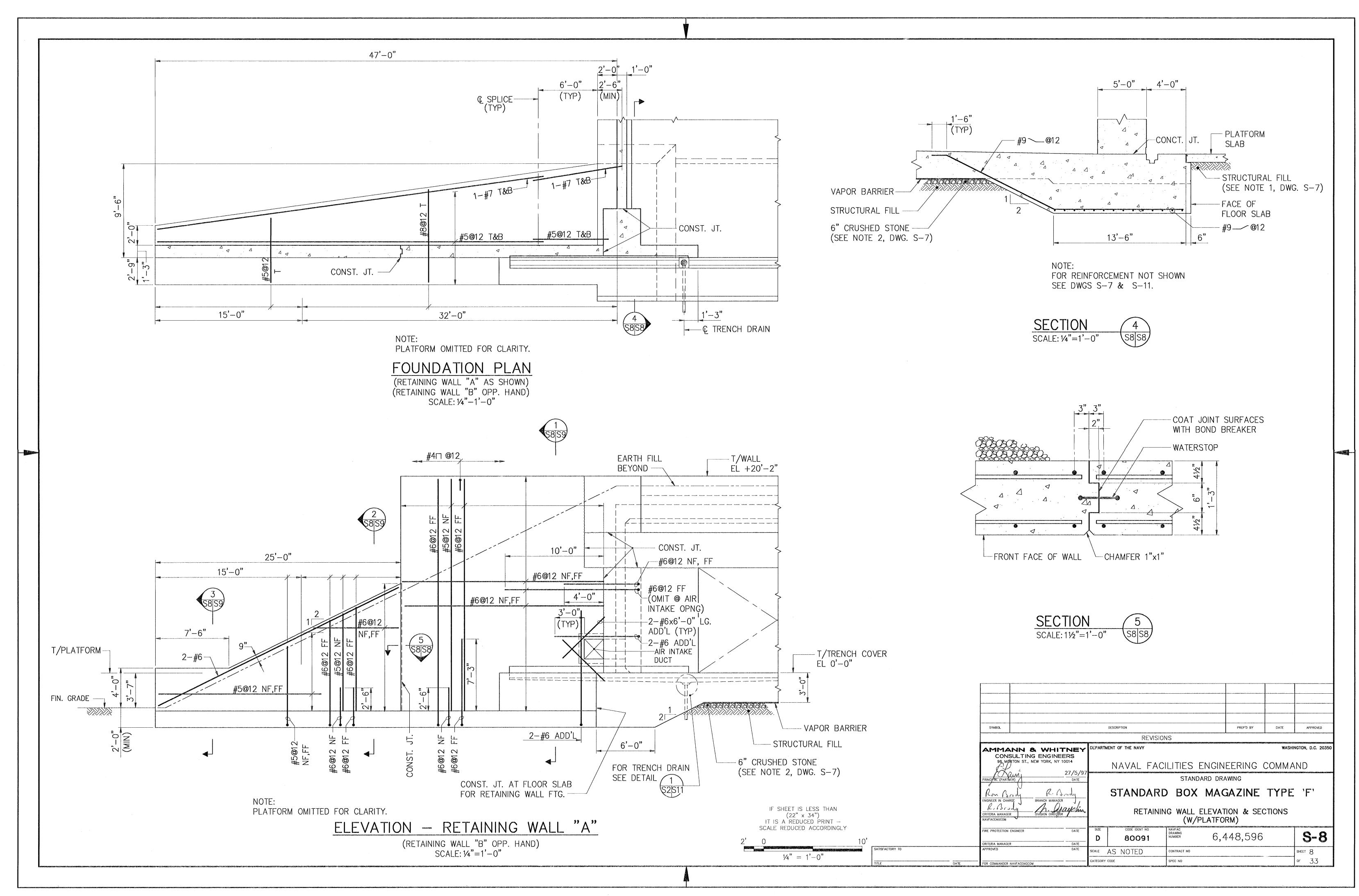


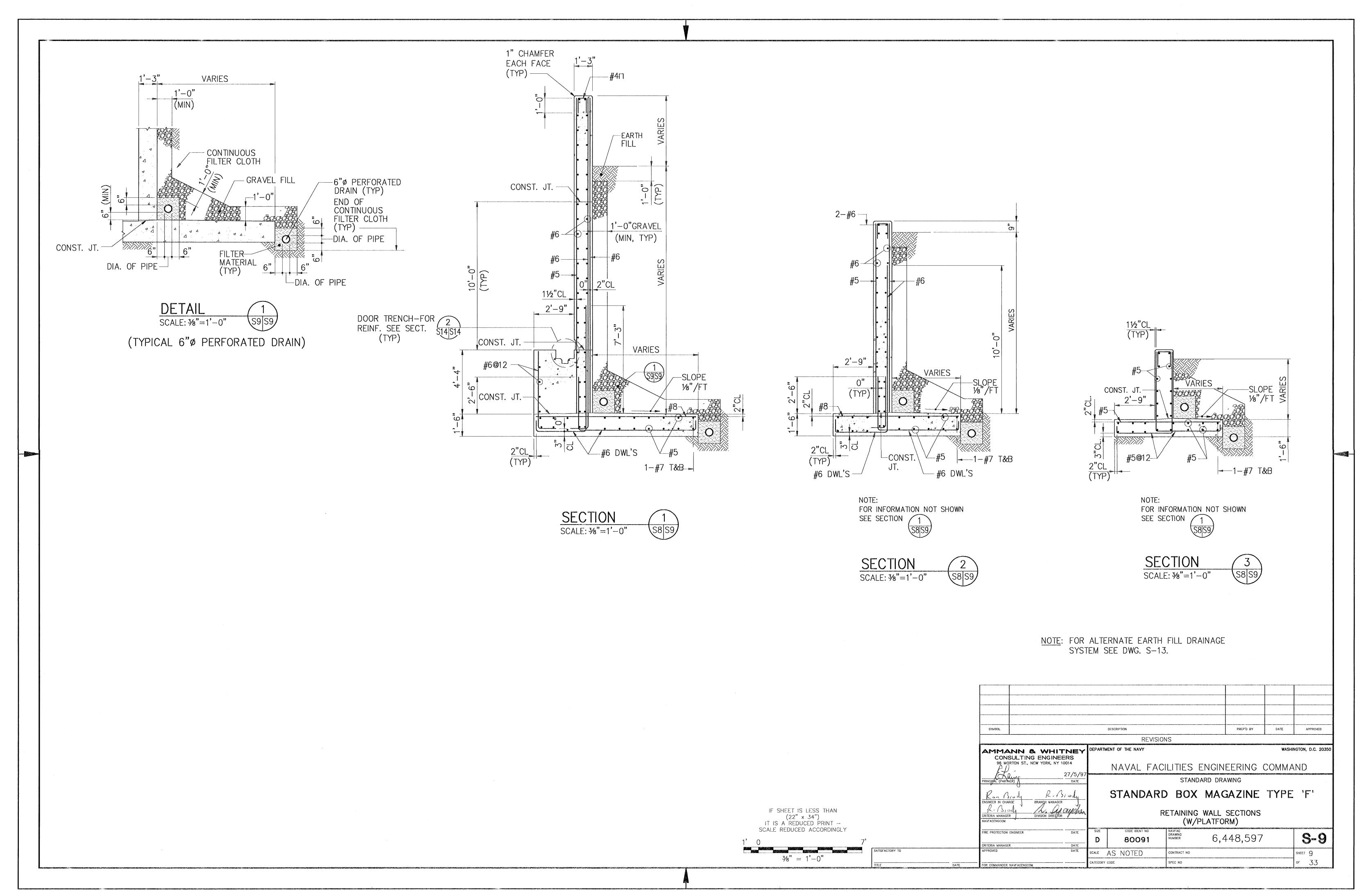


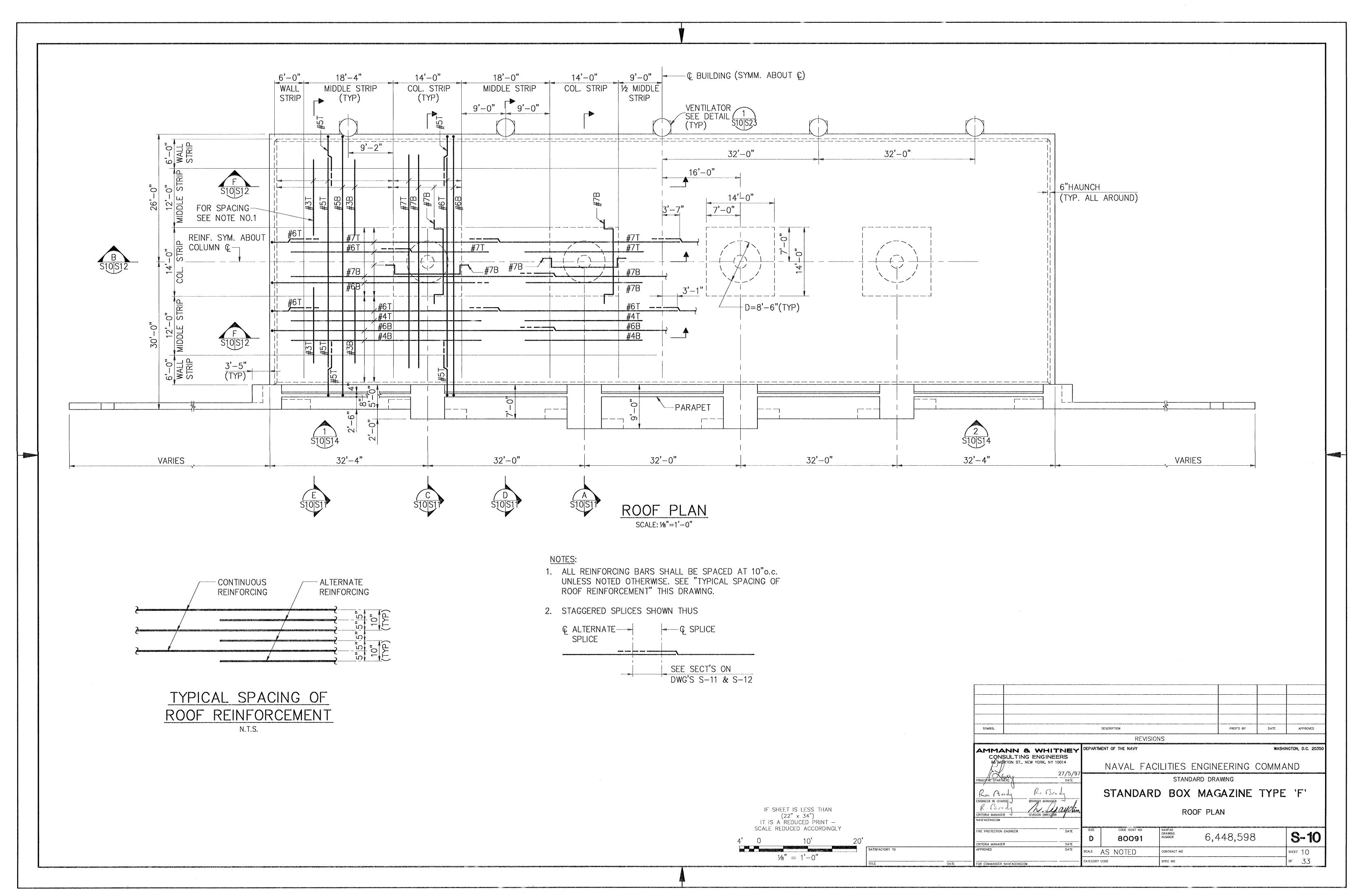


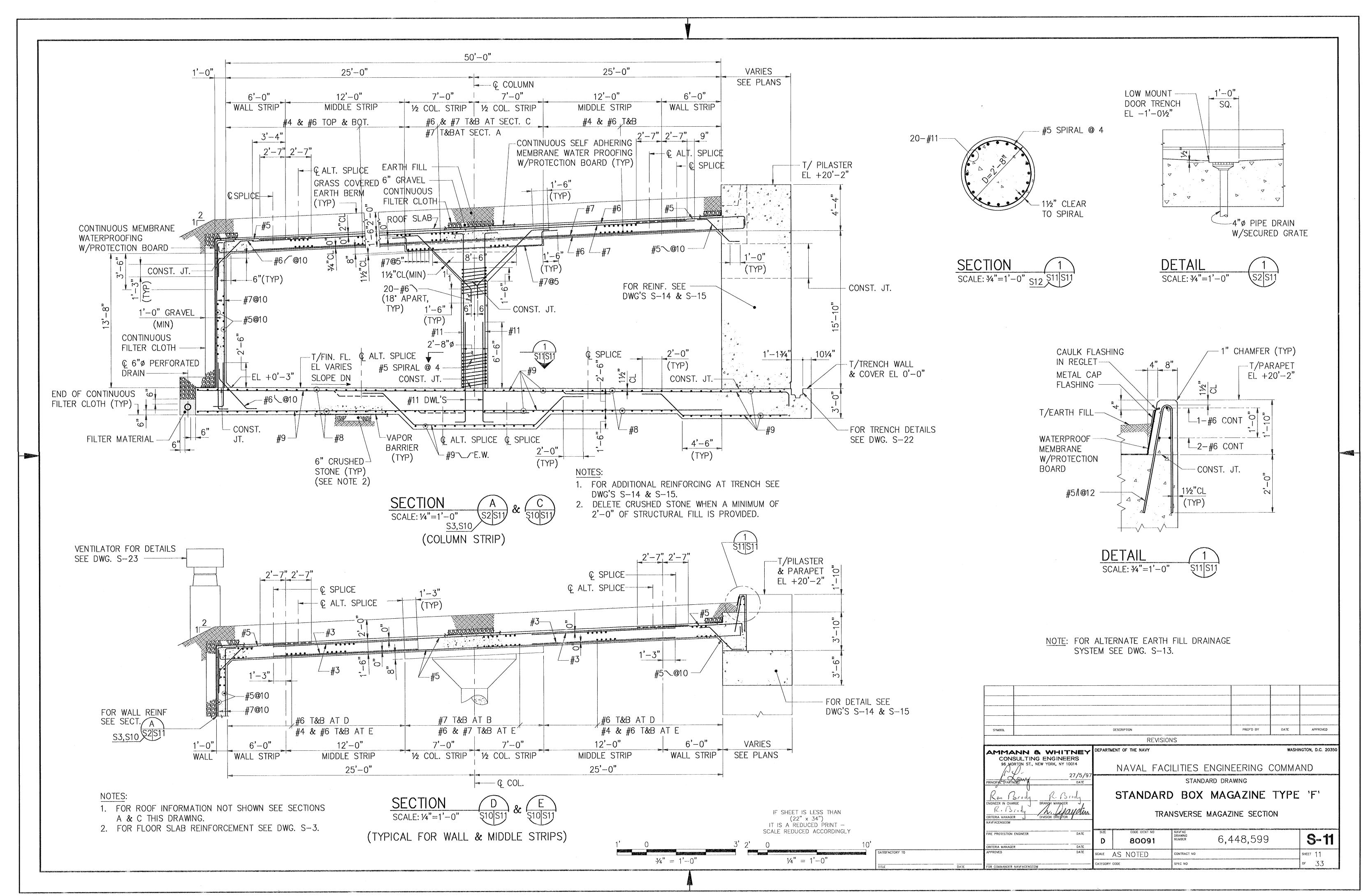


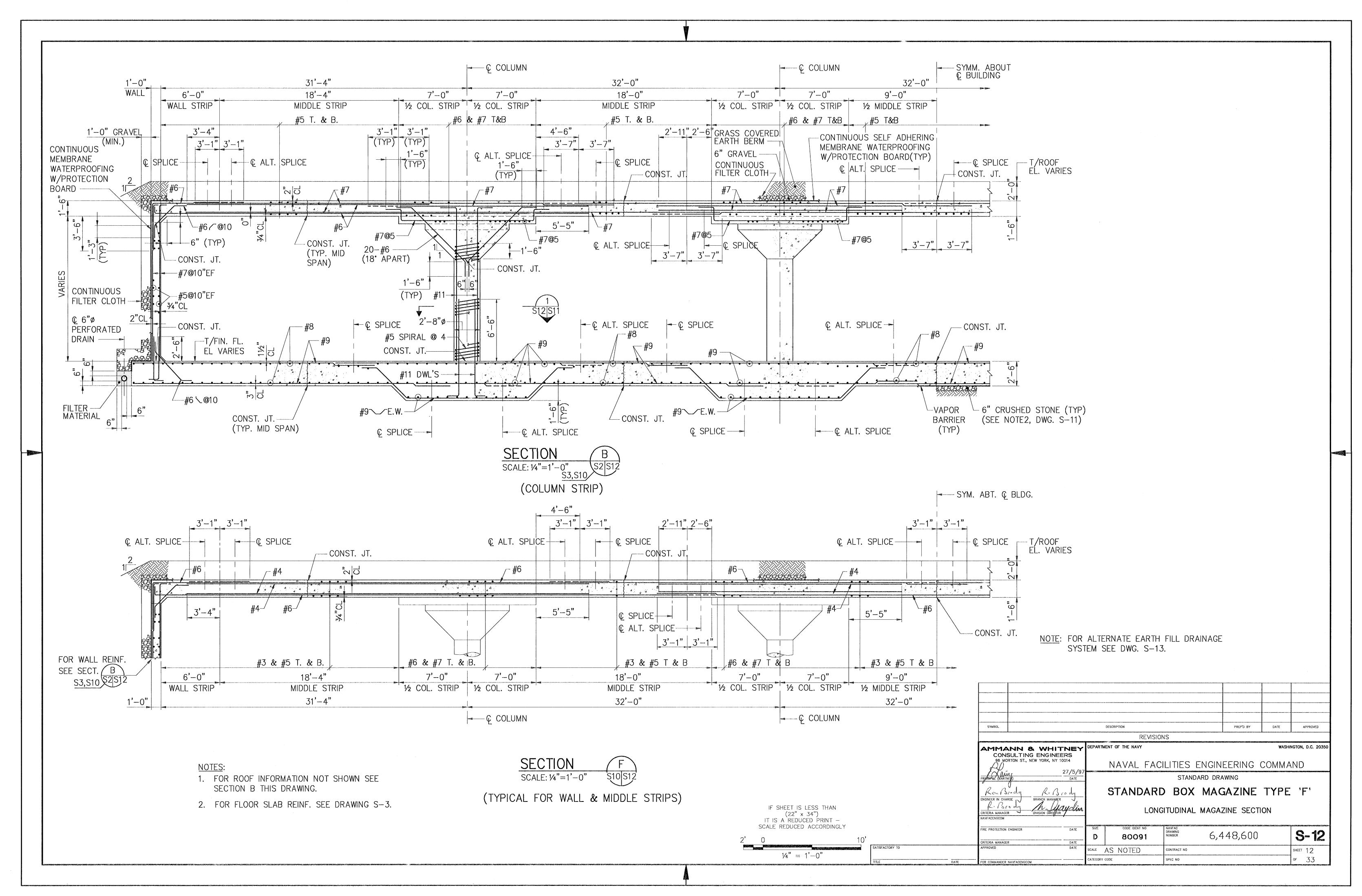


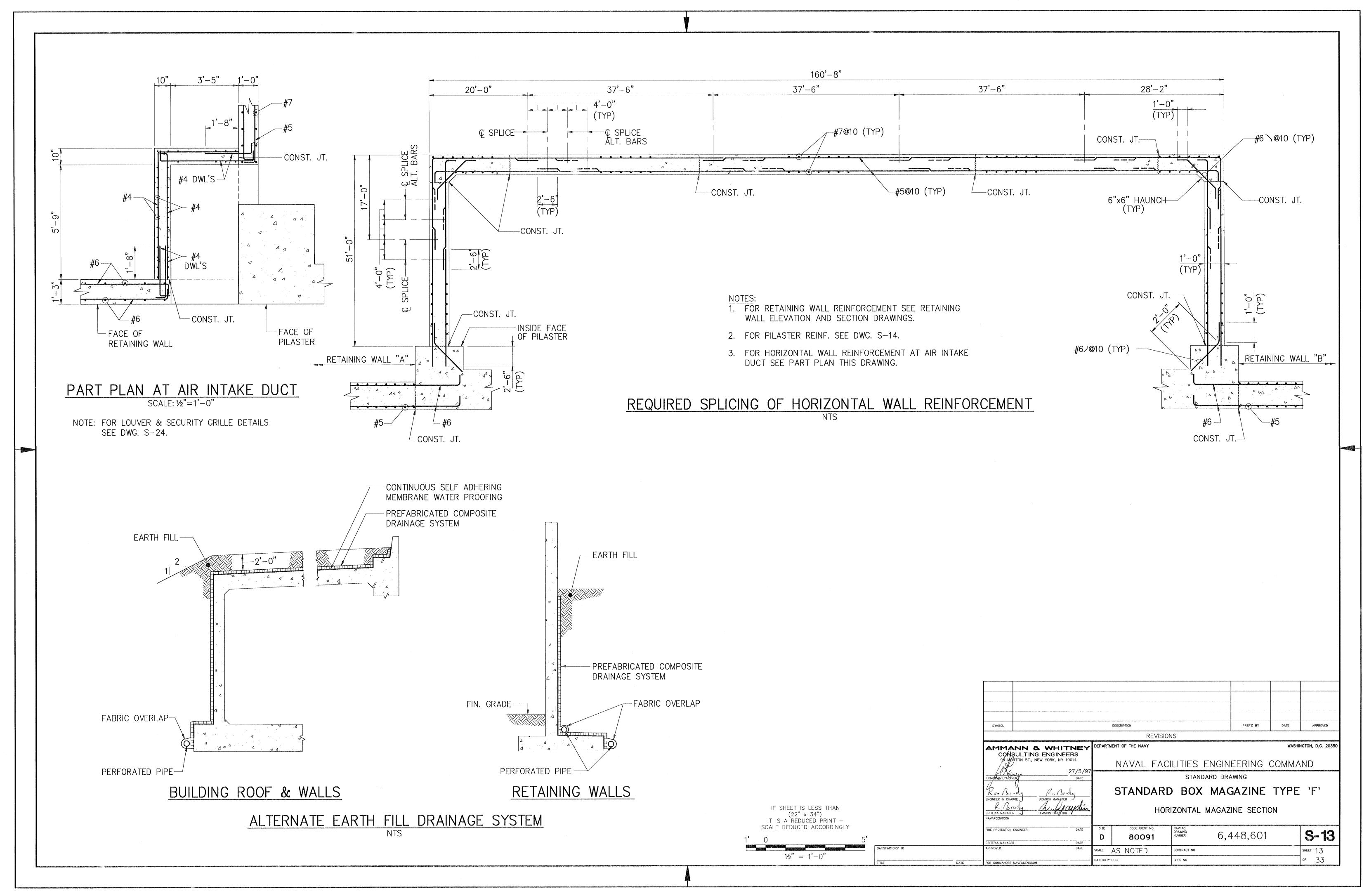


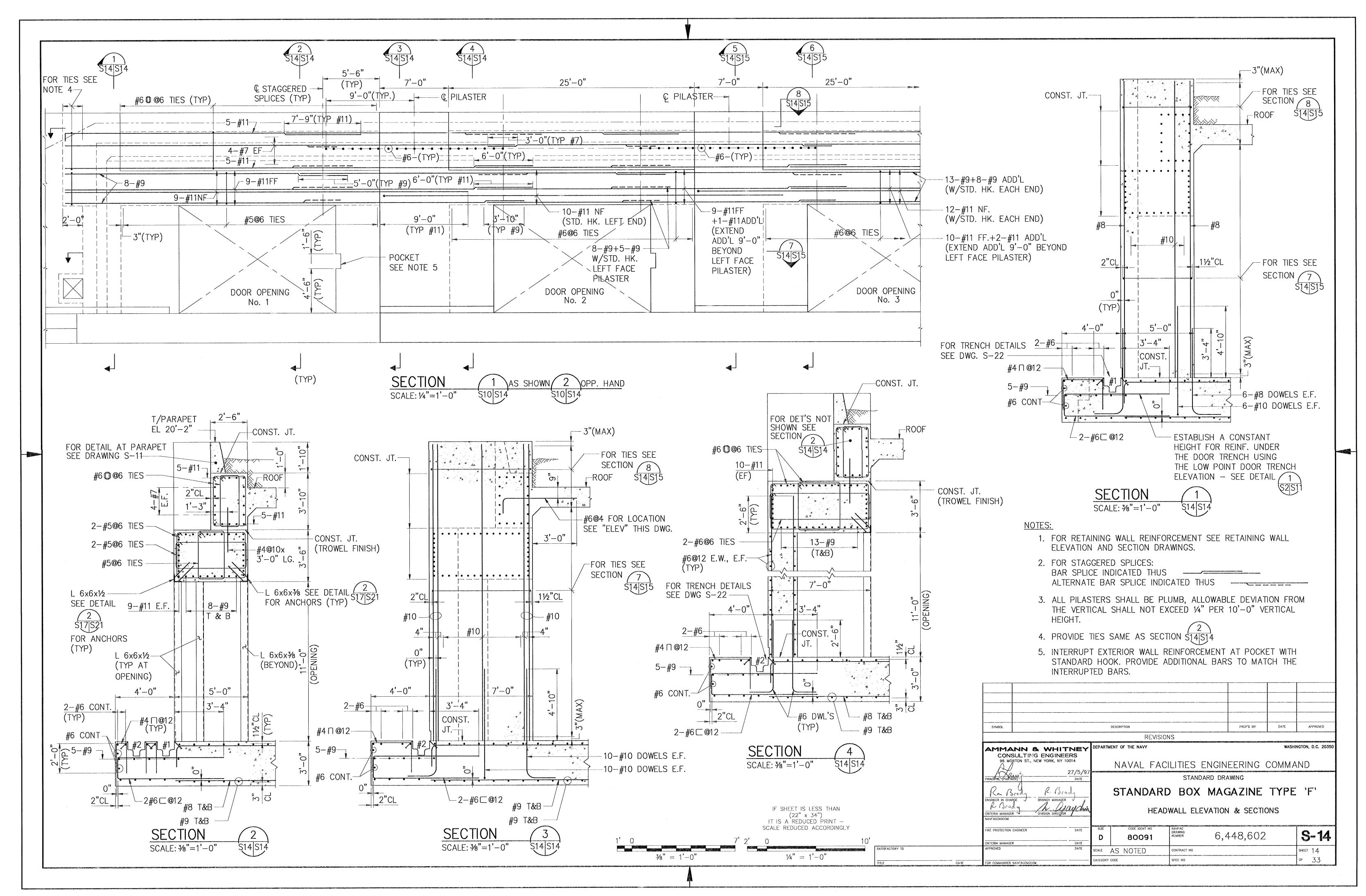


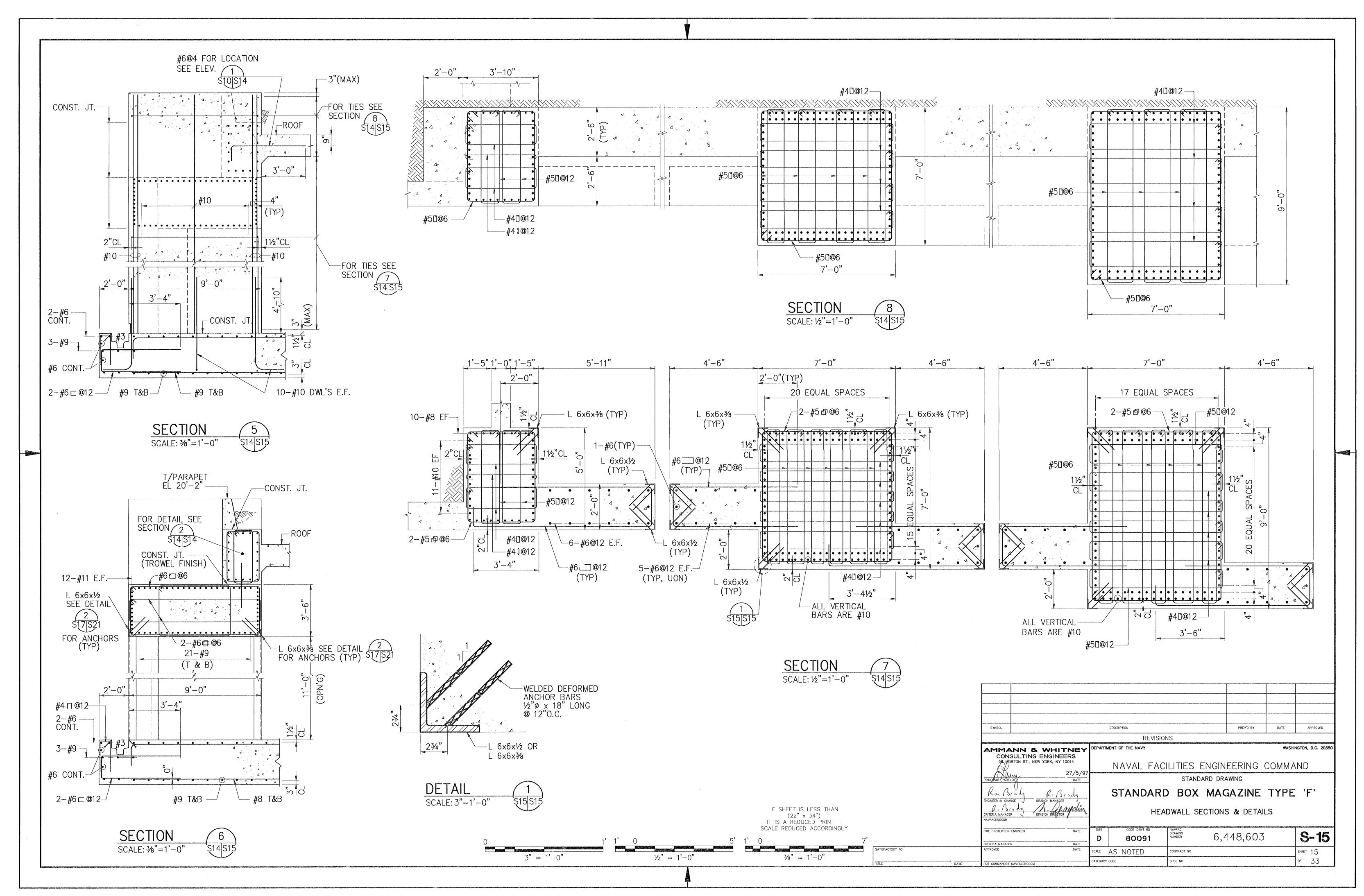


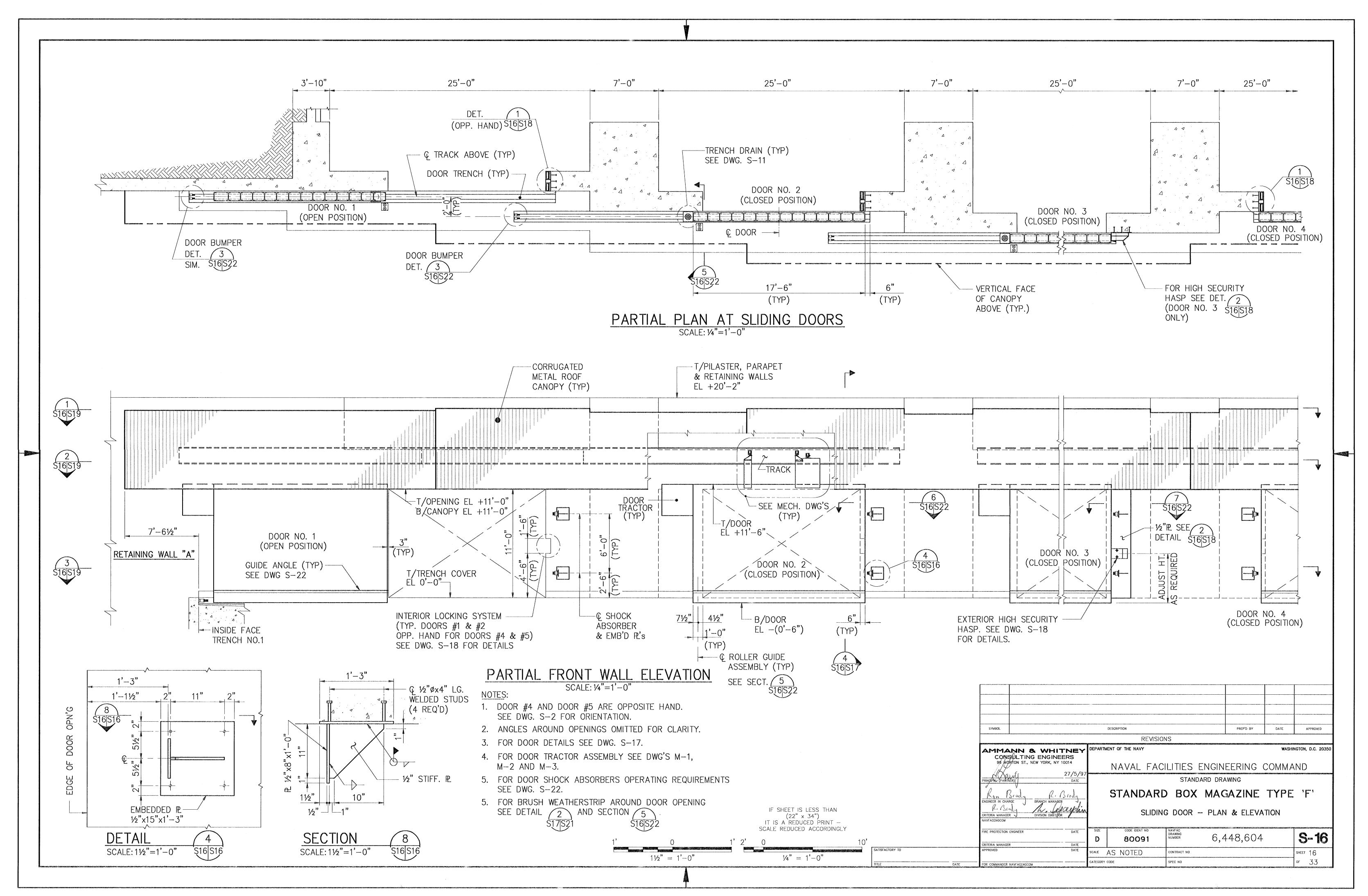


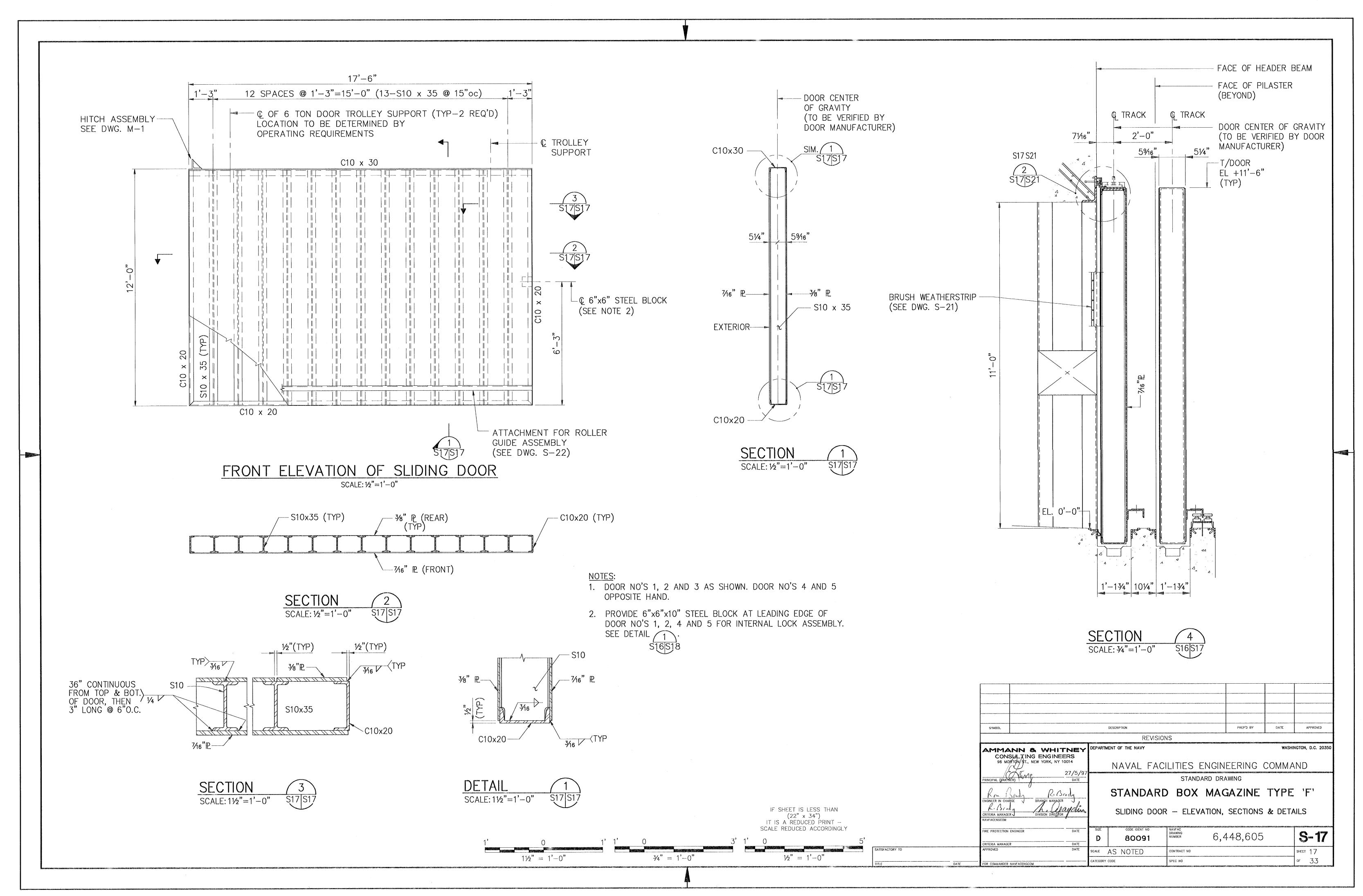


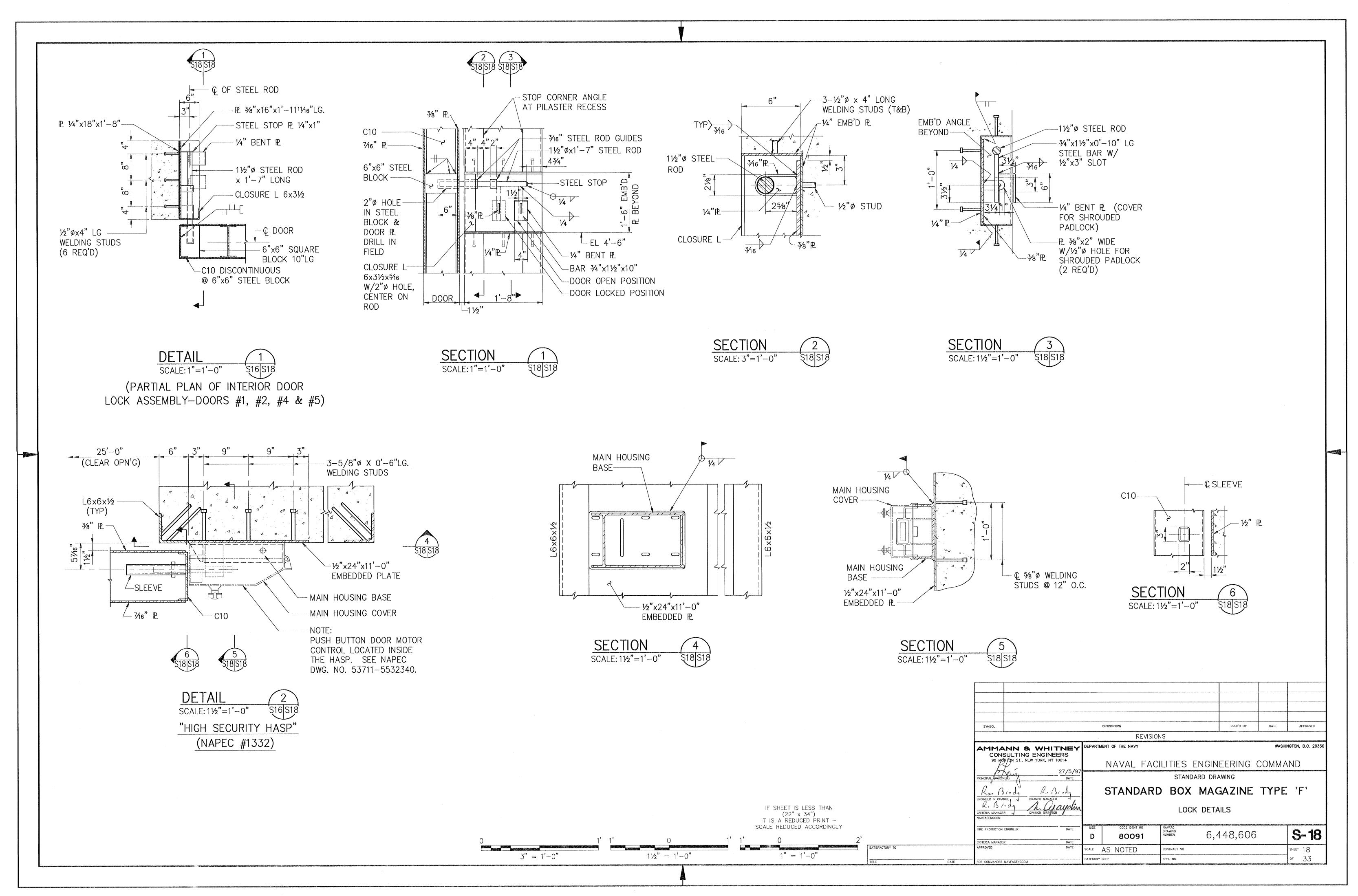


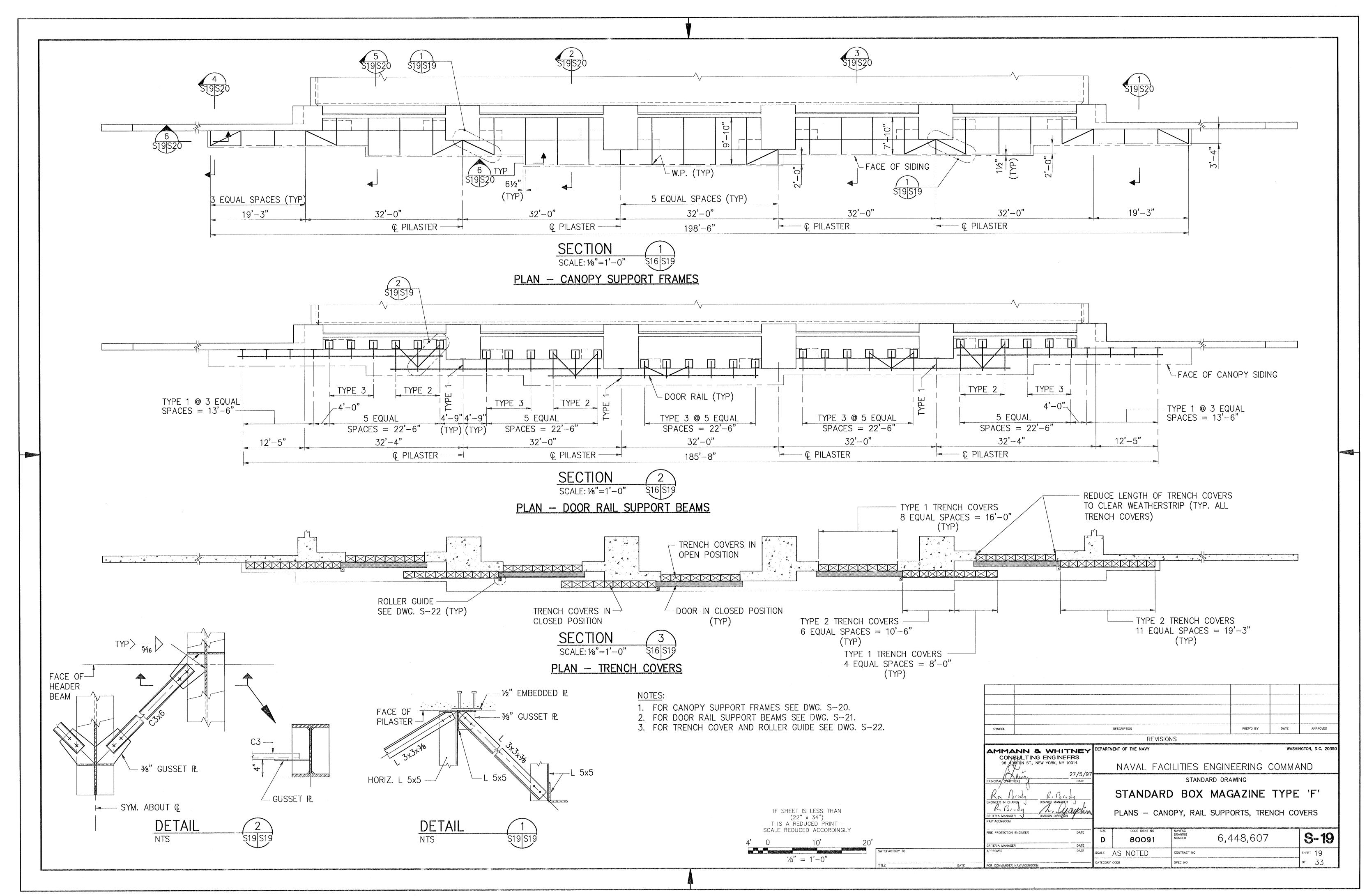


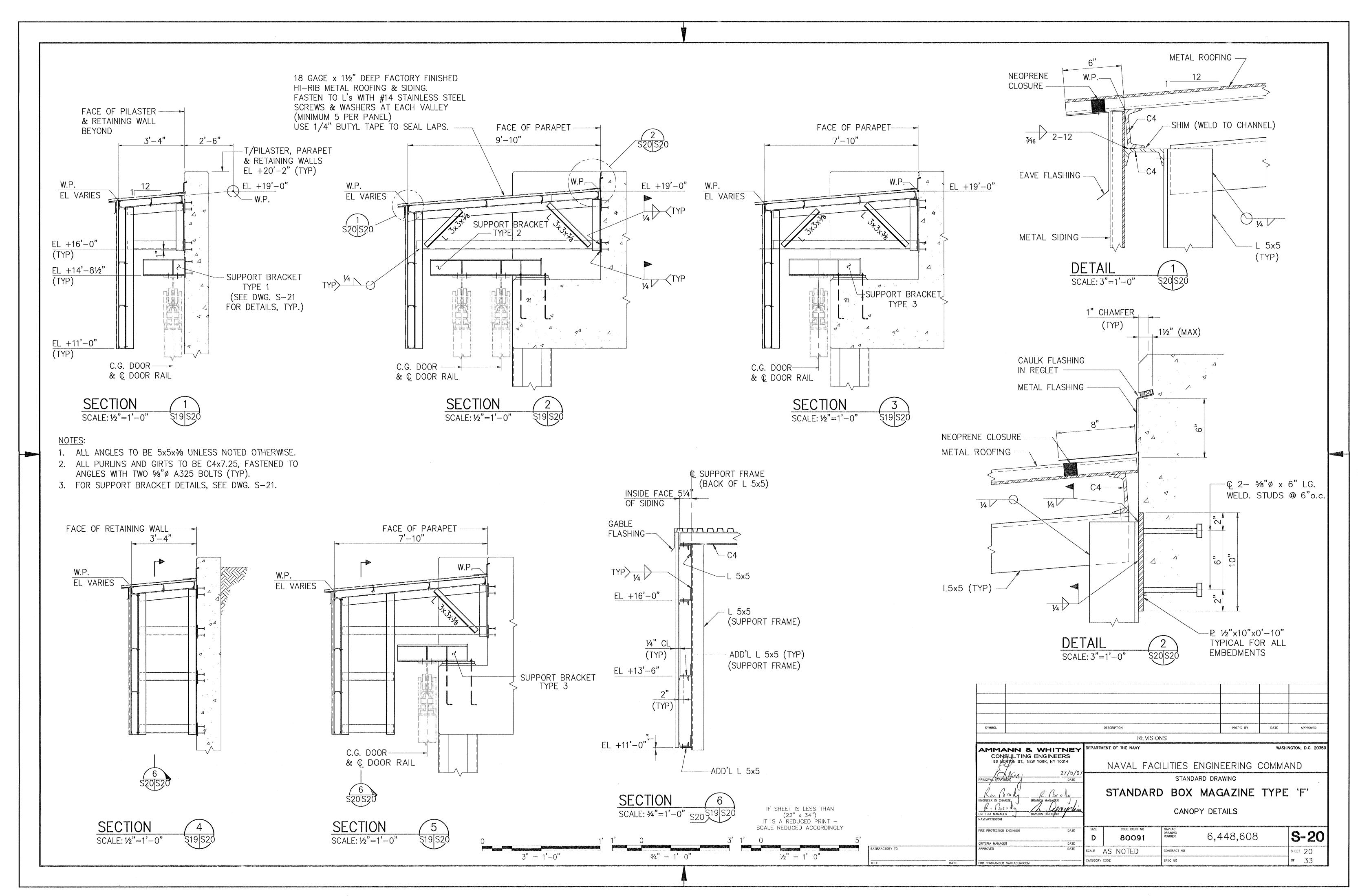


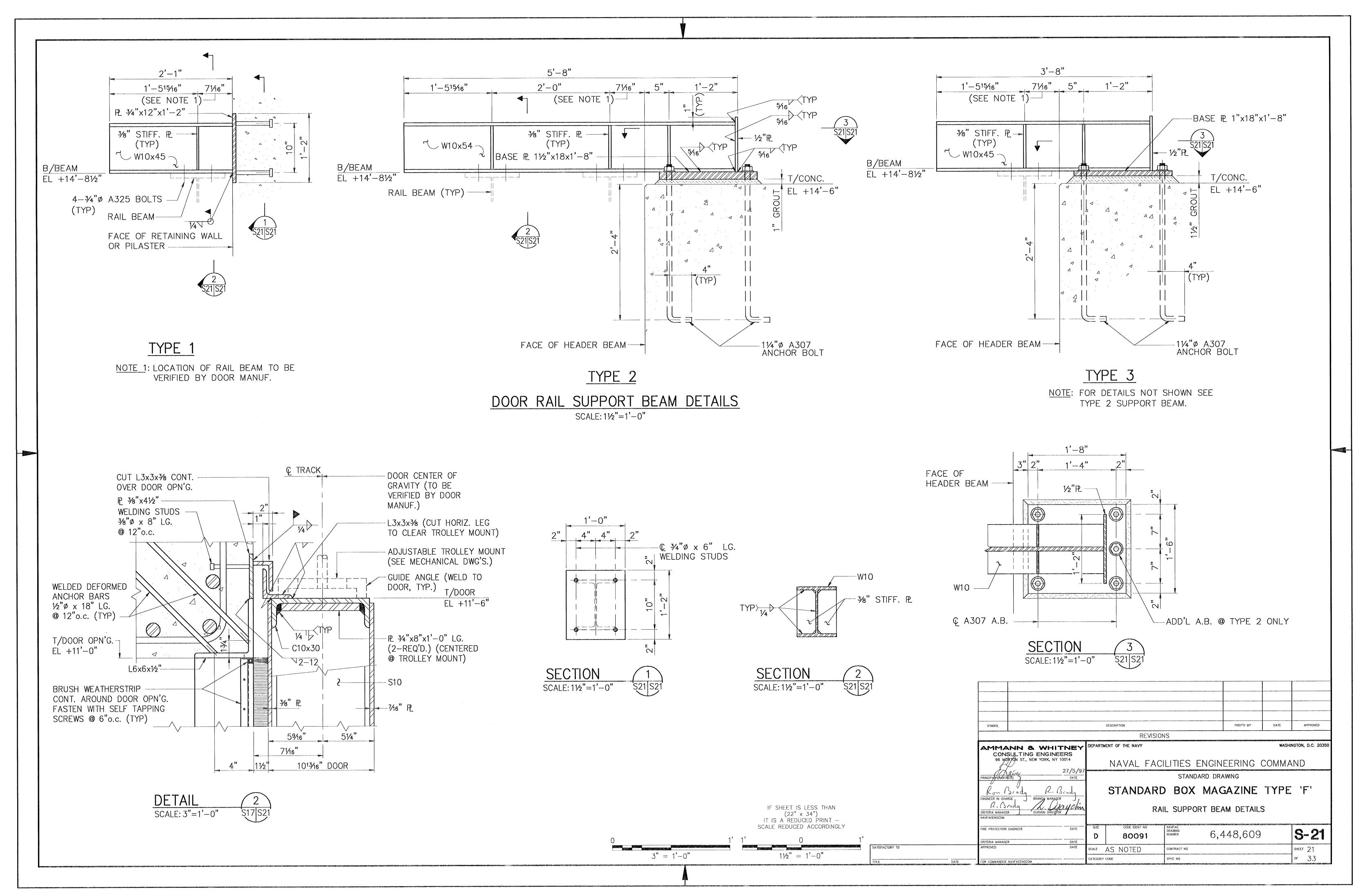


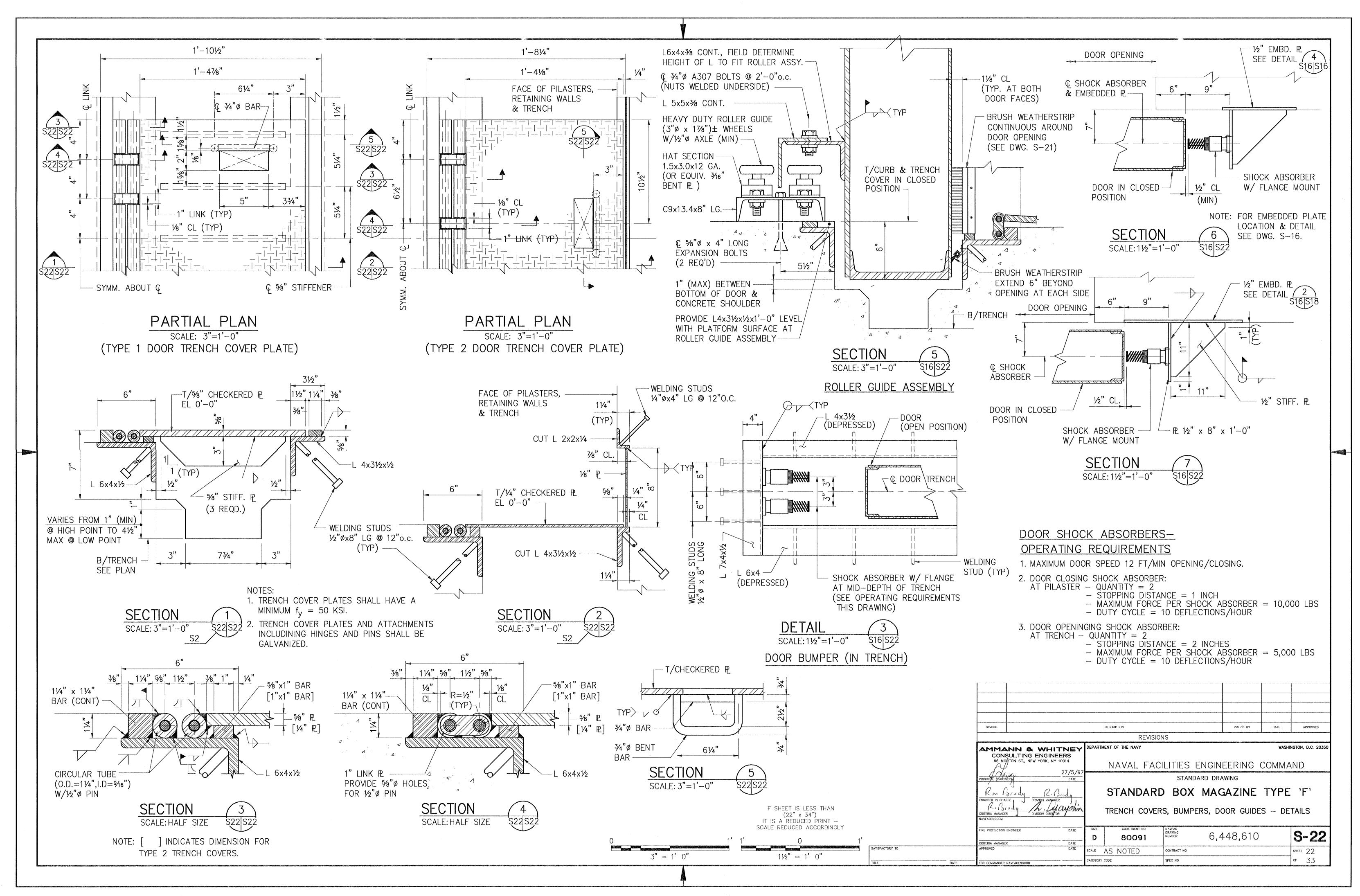


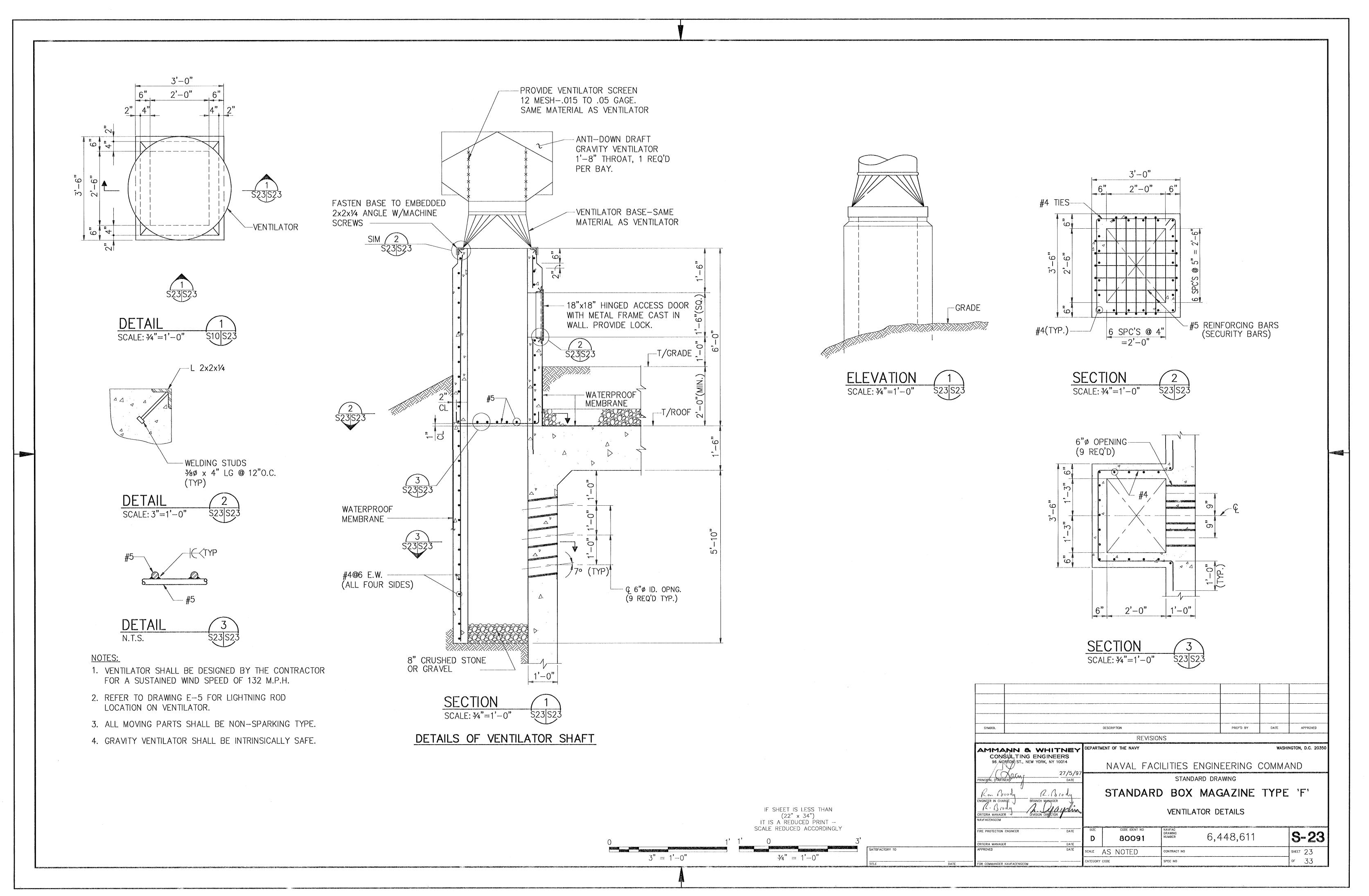


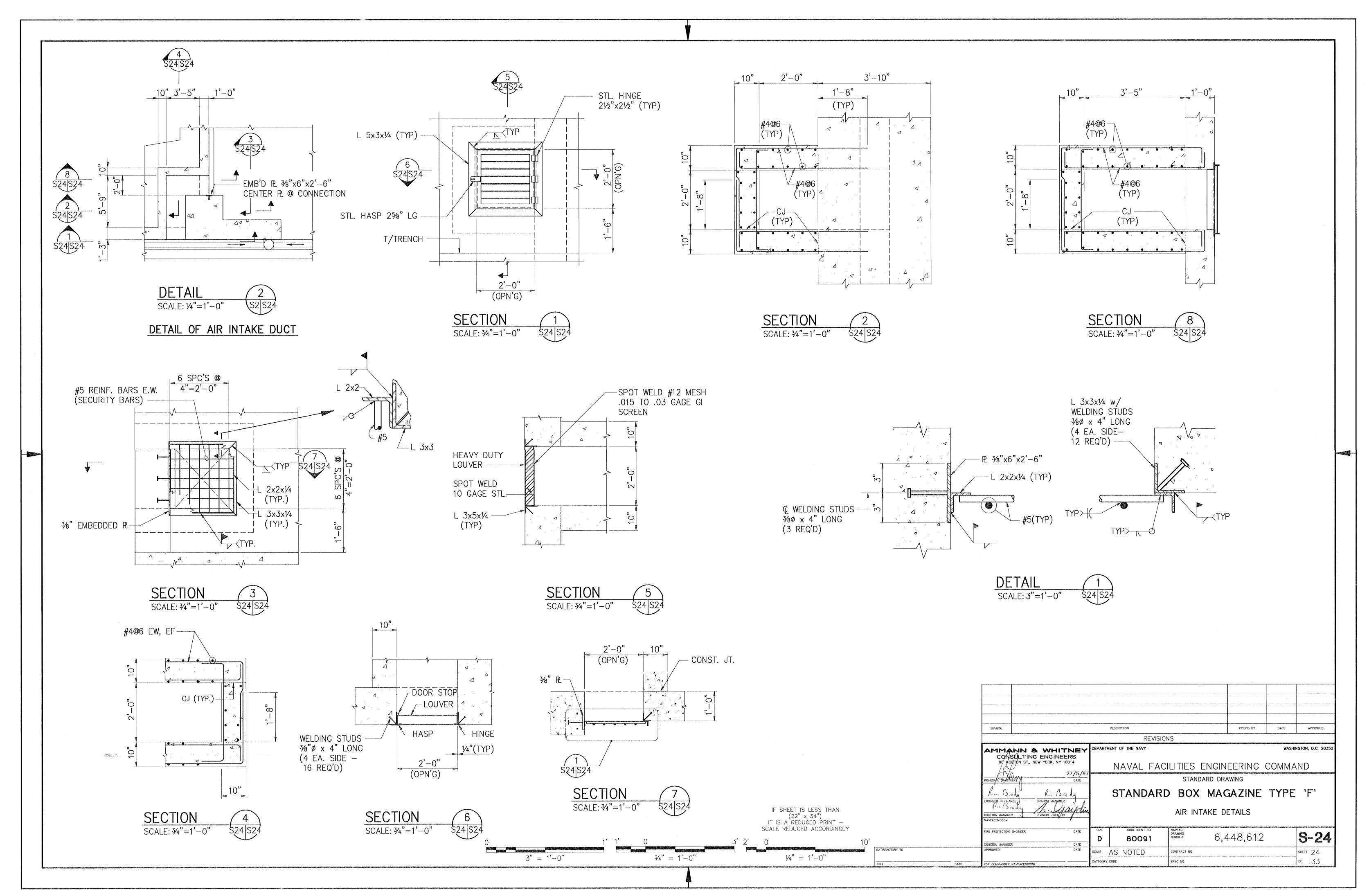


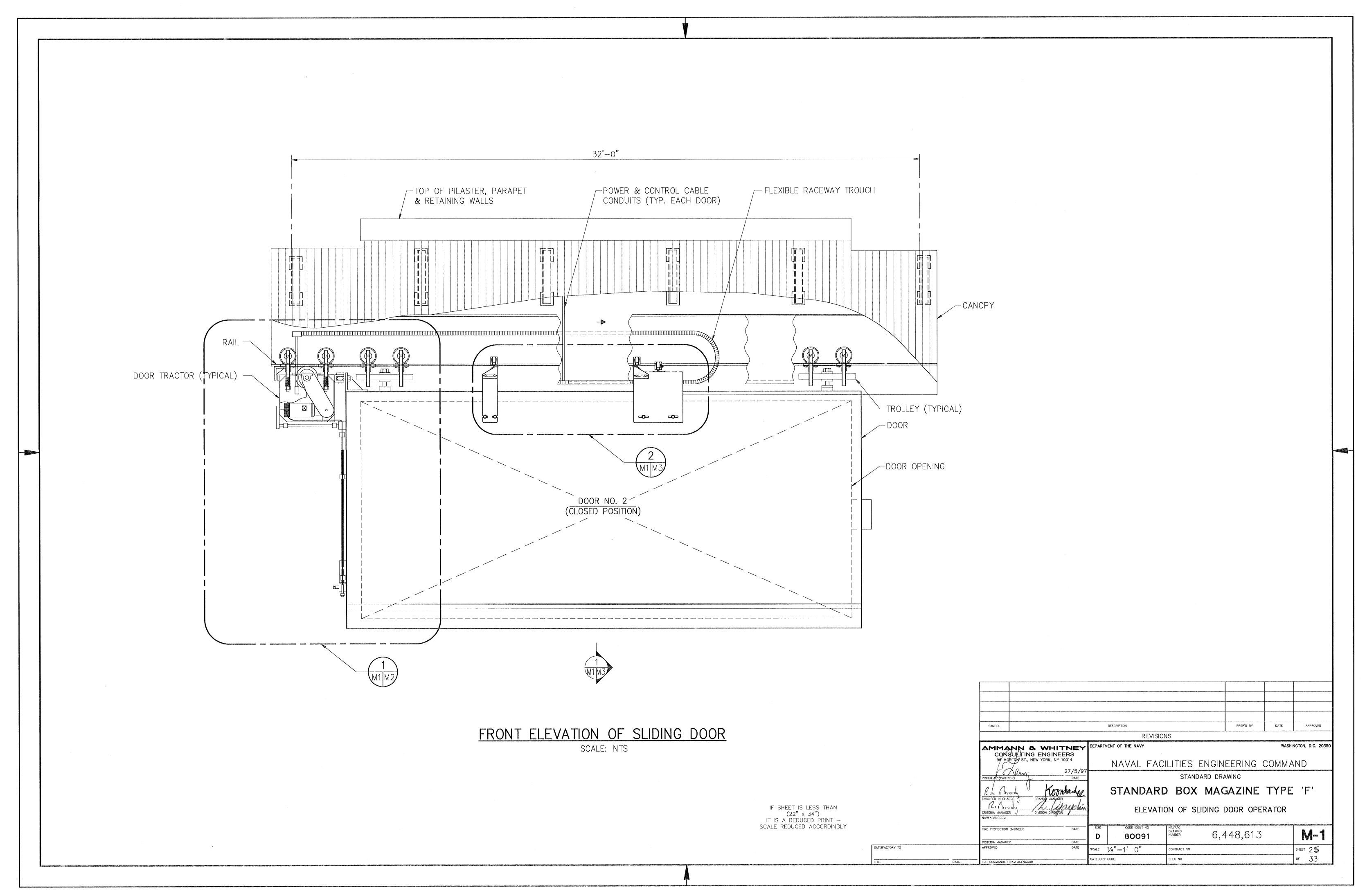


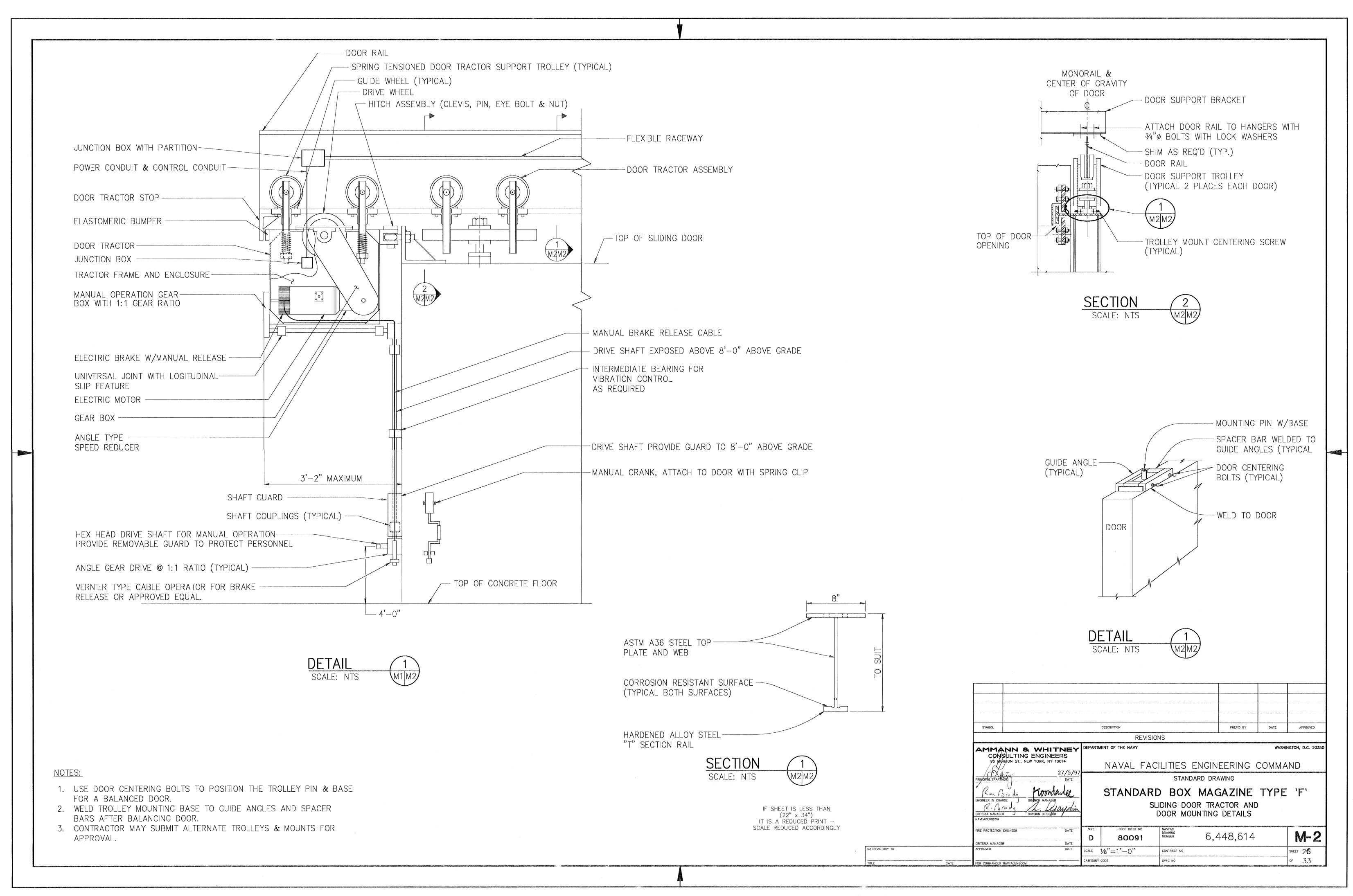


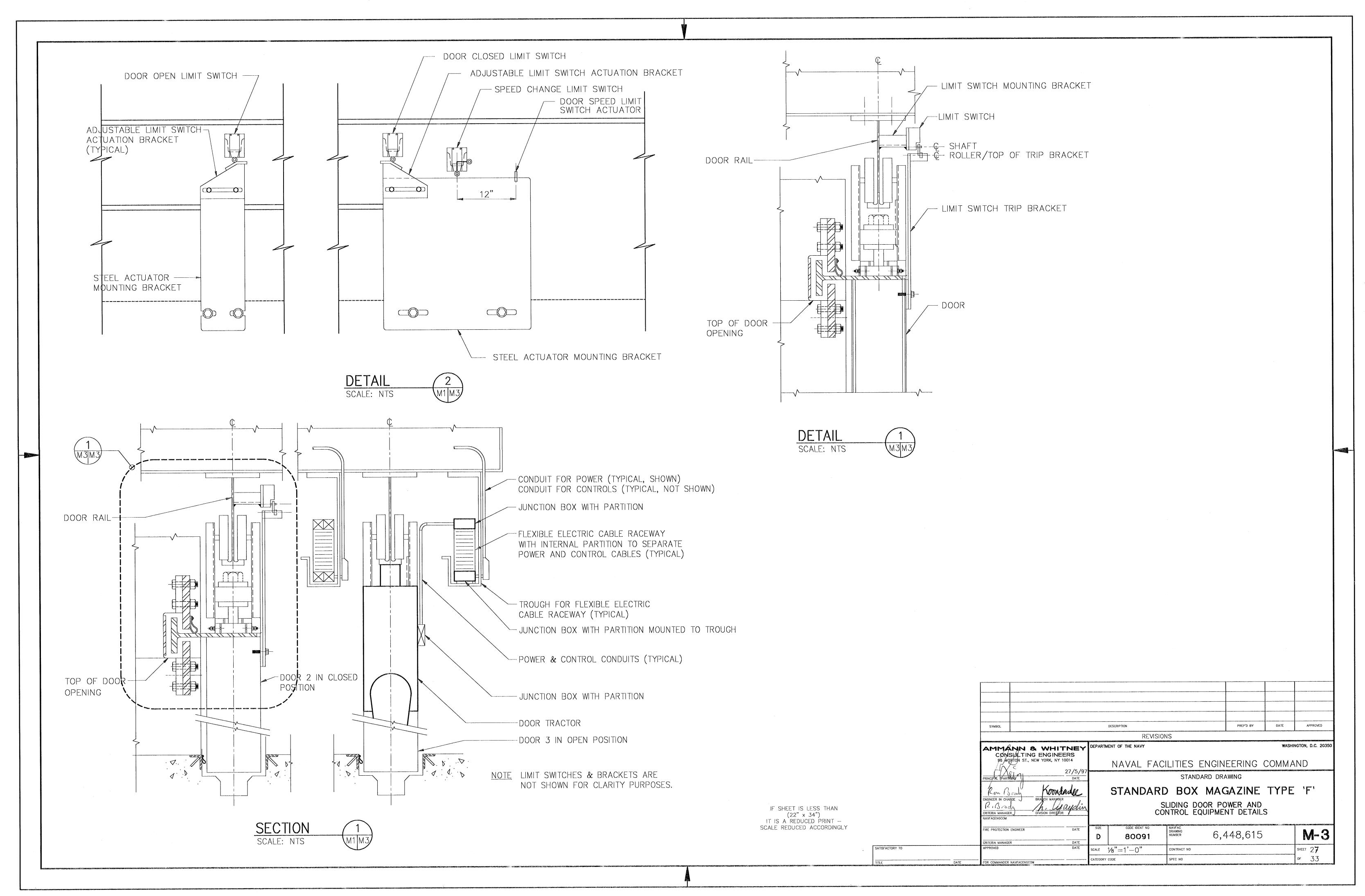












ELECTRICAL LEGEND AND ABBREVIATIONS

ELECTRICAL LEGEND:

ABBREVIATIONS:



4#2 & 1#8G-4"C (2-4"C - 1 SPARE) SEE NOTE P1 3#8 & 1#10G-1"C 480V, 345 ARRESTOR 3 PHASE LIGHTNING ARRESTOR 4#80-120/208V 346, 4W 4#6 & 1#10G-1?"C

SINGLE LINE DIAGRAM

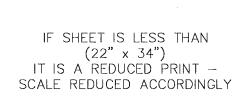
N.T.S.

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			1470	DEMARKS		
	TYPE	QUANTITY	WATTS	VOLTAGE	MTG.	REMARKS		
A	FLUORESCENT	AS REQUIRED	100	120	SURFACE	REFER TO DRAWING E-5		
⊸ Он В	HIGH PRESSURE SODIUM	AS REQUIRED	250	120	WALL SURFACE	REFER TO DRAWING E-5		

GENERAL NOTES:

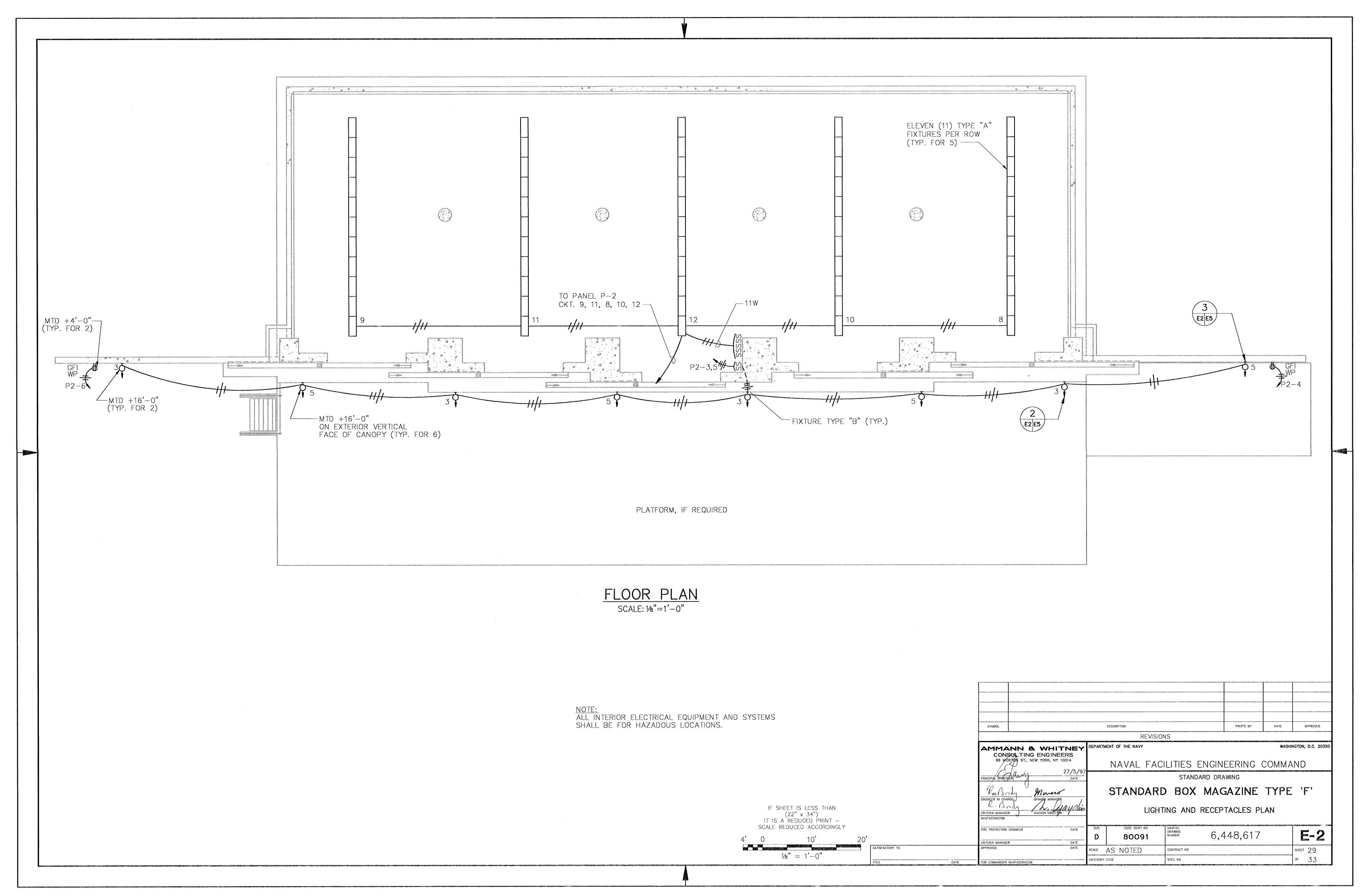
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
- 2. ALL INTERIOR ELECTRICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH THE N.E.C. NFPA 70 REQUIREMENTS FOR HAZARDOUS LOCATIONS. EXACT TYPE OF CLASSIFICATION SHALL BE DETERMINED FOR EACH SITE.
- 3. PROVIDE SEAL FITTINGS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- 4. FOR DOOR CONTROLS SEE PERFORMANCE SPECIFICATIONS.
- 5. 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.
- 6. ALL ARCHITECT/ENGINEERS USING THESE DRAWINGS AS STANDARDS SHALL INCLUDE THE INTERRUPTING CURRENTS OF ALL ELECTRICAL ITEMS ON THEIR DRAWINGS.

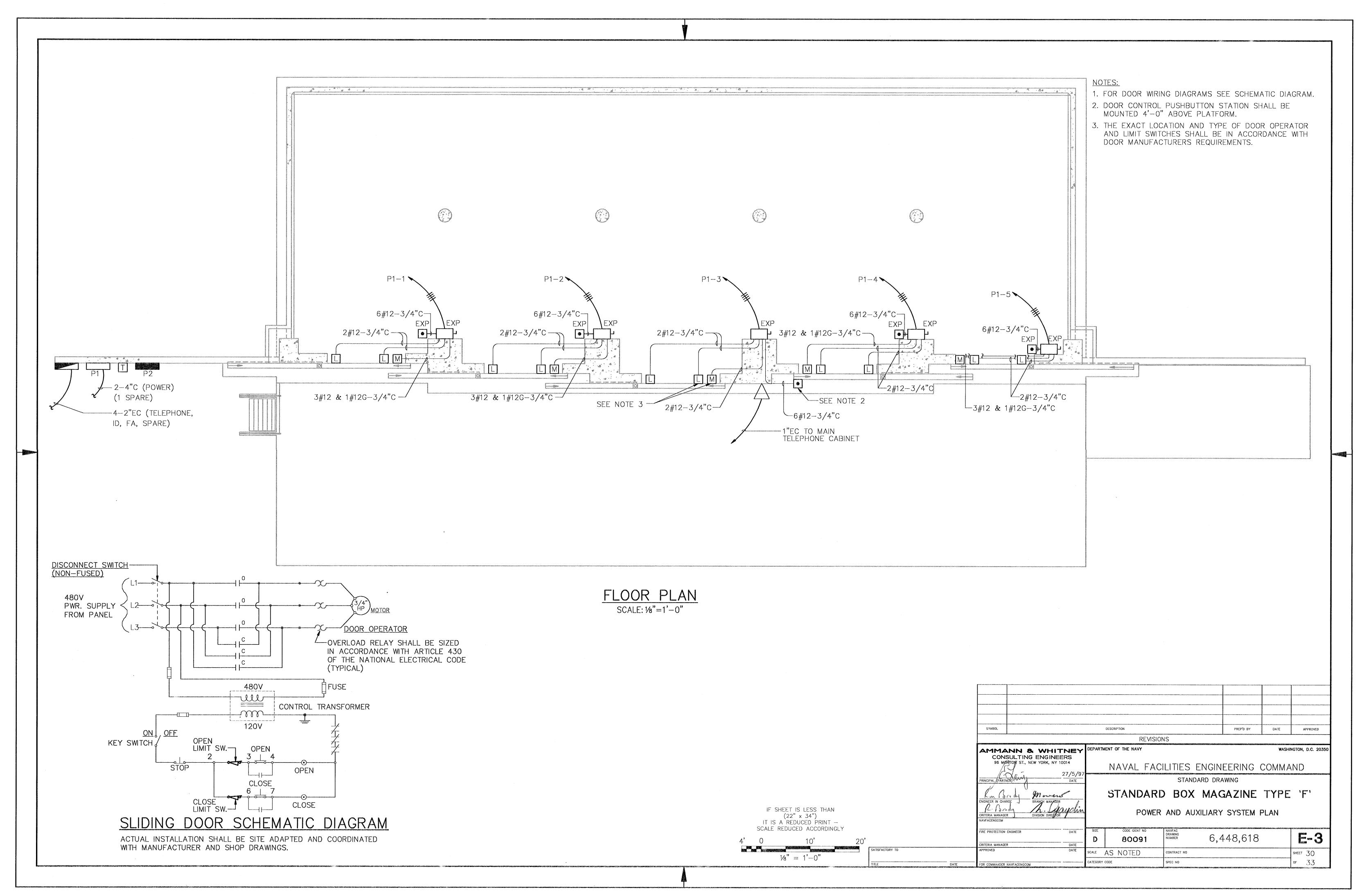


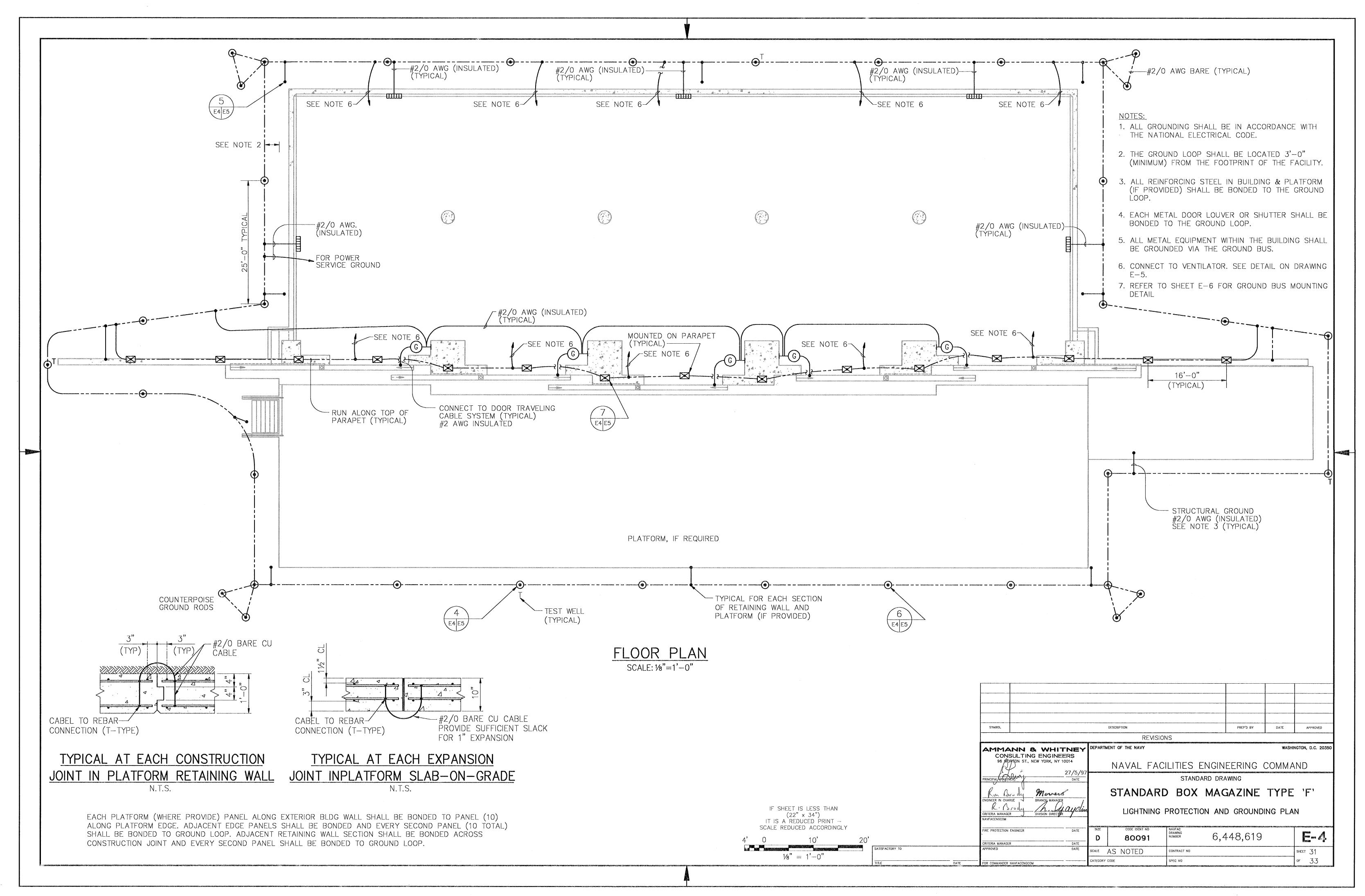
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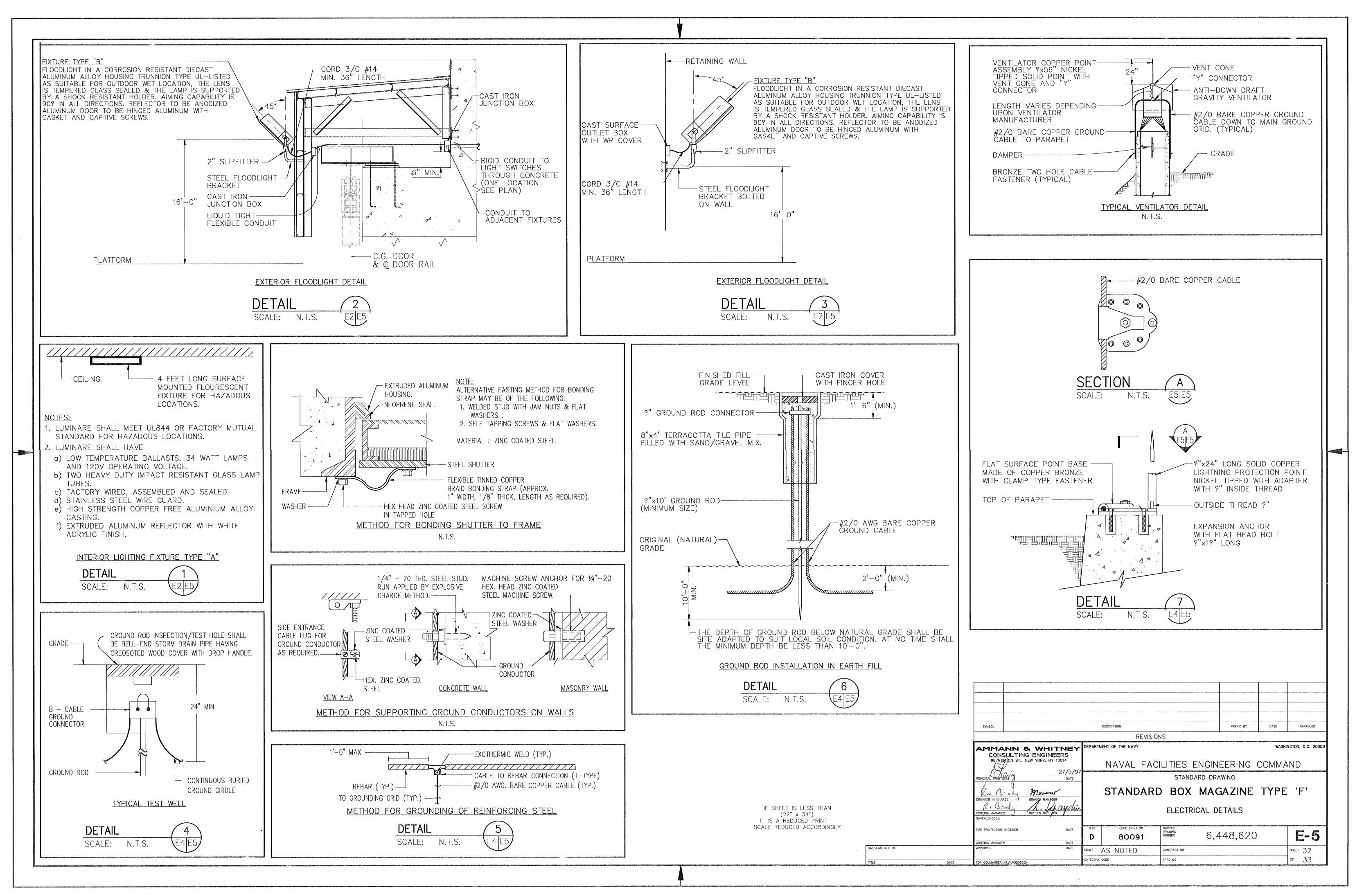
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SYMBOL	DESCRIPTION PREP'D B								
REVISIONS									
AMMANN & WHITNEY	DEPARTM	ENT OF THE NAVY			WASHII	NGTON, D.C. 20350			
PRINCIPAL PARTNERS CONSULTING ENGINEERS 96 MORTON ST., NEW YORK, NY 10014 27/5/97 DATE	NAVAL FACILITIES ENGINEERING COMMAND STANDARD BOX MAGAZINE TYPE 'F'								
ENGINEER IN CHARGE BRANCH MANAGER CRITERIA MANAGER DIVISION DIRECTOR NAVFACENGCOM			ND, NO	ES, ABBREVIATIO LINE DIAGRAM		Γ			
FIRE PROTECTION ENGINEER DATE CRITERIA MANAGER DATE	SIZE D	CODE IDENT NO 80091	NAVFAC DRAWING NUMBER	6,448,616					
APPROVED DATE	SCALE	AS NOTED	CONTRACT NO			SHEET 28			
FOR COMMANDER NAVFACENGCOM	CATEGORY	Non-continued to comment (Add to the St. Children Constitution of	SPEC NO			of 33			









POWER PANEL P1 SCHEDULE								
277/480_VOLT_3_PHASE_4_WIRE_SN100_A.BUS_ANDGNDBUS								
	LUG LOCATIONCABINETMIN. S.C							A.SYM.
CIR. NO.	DESCRIPTION OF LOAD	AMPS	KW.	H.P.	CIRC FRAME SIZE	uit Breai Trip Size	KER POLES	REMARKS
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	

