

US Army Corps  
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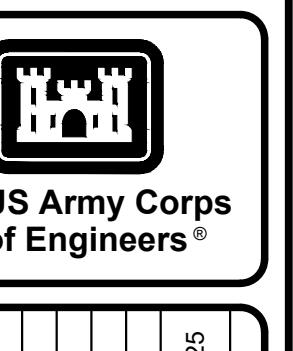
US Army Corps of Engineers Huntsville Center

# MODULAR STORAGE MAGAZINE, BOX-TYPE FLOW-THRU STD 421-80-10 REVISION 1

SOLICITATION NO.:  
CONTRACT NO.:  
ISSUE DATE:

SHEET ID

G-001



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STANDARD DESIGN DRAWINGS - NOT FOR CONSTRUCTION

**GENERAL ABBREVIATIONS**

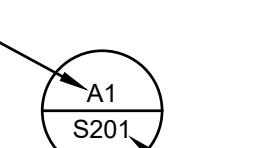
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
APPROX	APPROXIMATELY
BLDG	BUILDING
BOTT	BOTTOM
BRG	BEARING
CIP	CASE-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
CP	CENTRAL POINT
COL	COLUMN
COORD	COORDINATE
CONC	CONCRETE
CONT	CONTINUE, CONTINUOUS
DIA	DIAMETER
DAG	DIAGONAL
DIM	DIMENSION
EA	EACH
ELEV	ELEVATION
EEL	EACH EEL
EQ	EQUAL
E.W.	EACH WAY
(E)OR EXIST	EXISTING
EXT	EXTERIOR
FTG	FOOTING
FV	FIELD VERIFY
GALV	GALVANIZED
HD	HEADED
HT	HEAVY
INT	INTERIOR
ID	INSIDE DIAMETER
LLH	LONG-LEG HORIZONTAL
LV	LONG-LEG VERTICAL
MIN	MINIMUM
MANF	MANUFACTURER
NTS	NOT TO SCALE
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE HAND
R	RADIUS
REINF	REINFORCEMENT
REQ'D	REQUIRED
SCHT	SQUARE FEET
SIM	SIMILAR
SOG	SLAB-ON-GRADE
STIFF	STIFFENER
TP	TYPICAL
UN	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
WWF	WELDED WIRE FABRIC
WWR	WELDED WIRE REINFORCEMENT
WP	WITH WORKING POINT

REFERENCE NO.



SHEET WHERE ELEVATION IS SHOWN

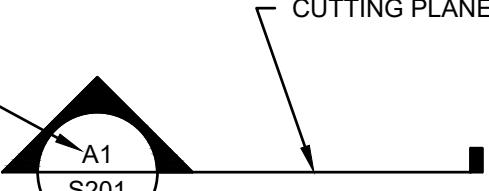
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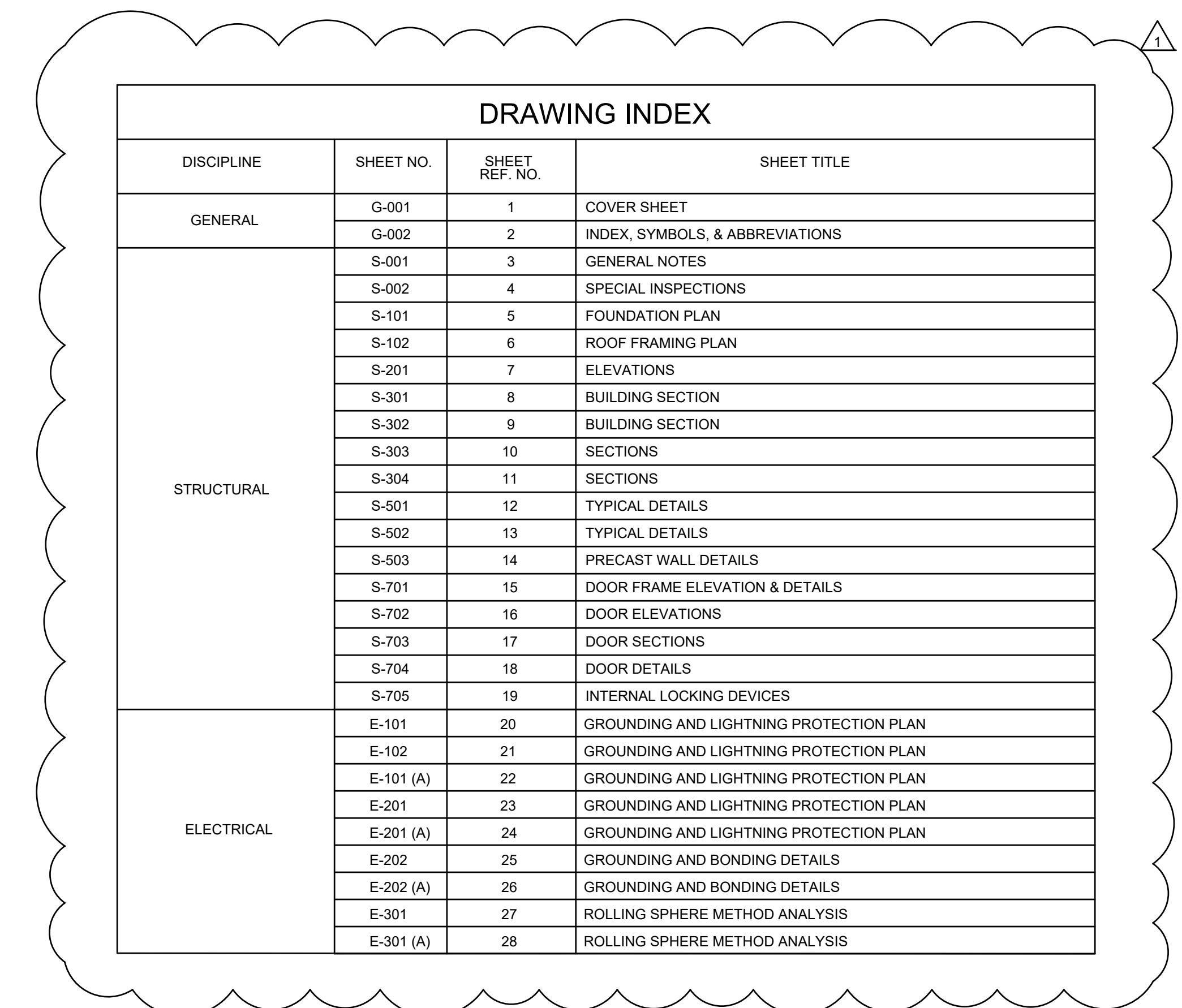
SHEET WHERE DETAIL IS SHOWN

**ELEVATION REFERENCE****ELEVATION REFERENCE**

REFERENCE NO.

CUTTING PLANE  
SHEET WHERE DETAIL IS SHOWN**SECTION CUT****DRAWING INDEX**

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MODULAR STORAGE MAGAZINE  
BOX-TYPE FLOOR-THRU  
STD 421-80-10 (REV. 1)

INDEX, SYMBOLS, &amp; ABBREVIATIONS

U.S. ARMY CORPS OF ENGINEERS  
ENGINEERING AND SUPPORT CENTER  
HUNTSVILLE, ALABAMADESIGNED BY:  
J. JUMPIREYISSUE DATE:  
SEPTEMBER 2025SOLICITATION NO.:  
J. JUMPIREYCHECKED BY:  
R. WRIGHTCONTRACT NO.:  
FES MAXSUBMITTED BY:  
FES MAXSIZE:  
ANSI DMARK:  
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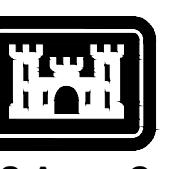
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G-002



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SPECIAL INSPECTION SCHEDULE/VERIFICATION			
ITEM	EXTENT OF INSPECTION <sup>1</sup>	REFERENCE (IBC TABLE 1705.3)	COMMENTS/SCOPE
<b>CONCRETE CONSTRUCTION</b>			
REINFORCING STEEL PLACEMENT	P	ACI 318: Ch 20, 25.2, 25.3, 26.6.1-26.6.3	INSPECT SIZE, SPACING, COVER, POSITIONING AND GRADE OF REINFORCING STEEL. VERIFY THAT REINFORCING BARS ARE FREE OF FORM OIL OR OTHER DELETERIOUS MATERIALS. INSPECT BAR LAPS AND MECHANICAL SPLICES. VERIFY THAT BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS
WELDING OF REINFORCEMENT	C, P	AWS D1.4, ACI 318:26.6.4	VISUALLY INSPECT ALL REINFORCING STEEL WELDS. VERIFY WELDABILITY OF REINFORCING STEEL. INSPECT PREHEATING OF STEEL WHEN REQUIRED.
CONCRETE PLACEMENT	C	ACI 318: 26.5	INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED
SAMPLING AND TESTING OF CONCRETE	C	ASTM C 172 ACI 318: 26.5, 26.12	TEST CONCRETE COMPRESSIVE STRENGTH, SLUMP, AIR-CONTENT AND TEMPERATURE
CURING AND PROTECTION	P	ACI 318: 26.5.3-26.5.5	INSPECT CURING, COLD WEATHER PROTECTION AND HOT WEATHER PROTECTION PROCEDURES
FORMWORK	P	ACI 318: 26.11.1.2 (b)	INSPECT FORWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED
<b>PRECAST CONCRETE</b>			
PLANT CERTIFICATION/QUALITY CONTROL PROCEDURES	S		REVIEW OF PLANT OPERATIONS AND QUALITY CONTROL PROCEDURES
MIX DESIGN	S		INSPECT CONCRETE BATCHING OPERATIONS AND VERIFY COMPLIANCE WITH APPROVED MIX DESIGN
MATERIAL CERTIFICATION	S		REVIEW FOR CONFORMANCE TO ACI 318
REINFORCEMENT INSTALLATION	P		INSPECT SIZE, SPACING, POSITION AND GRADE OF REINFORCING STEEL
CONNECTIONS/EMBEDDED ITEMS	P		INSPECT INTERFACE CONNECTIONS INCLUDING END AND EDGE DOWELING. INSPECT EMBEDMENTS FOR PROPER LOCATION AND WELDING OF CONNECTIONS
CONCRETE PLACEMENT	C	ACI 318: 26.5	INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED
SAMPLING AND TESTING	C		
CURING AND PROTECTION	P		
ERECTED PRECAST ELEMENTS	C	ACI 318: Ch. 26.9	INSPECT ERECTION OF PRECAST CONCRETE INCLUDING MEMBER CONFIGURATION, CONNECTIONS, WELDING AND GROUTING
<b>DOOR CONSTRUCTION</b>			
FABRICATOR CERTIFICATION/QUALITY CONTROL PROCEDURES	S		REVIEW OF FABRICATOR'S QUALITY CONTROL PROCEDURES OR AISC CERTIFICATION
FABRICATOR INSPECTION	P		INSPECT IN-PLANT FABRICATION, OR REVIEW FABRICATOR'S APPROVED INDEPENDENT INSPECTION AGENCY'S REPORTS
<b>SPECIAL ITEMS RELATED TO THE OTHER EXPLOSIVES SAFETY RELATED ITEMS</b>			
REBAR FARADAY-SHIELD	P	DWGS E-101/A; E-201/A; E-202/A; UFC 4-420-01-3.8.5; 3-9	INSPECT REINFORCING STEEL TO ENSURE ELECTRICAL CONTINUITY BETWEEN THE CAP, WALLS, SLAB AND FOUNDATION THROUGH BONDING WELDS. DOCUMENT BONDS WITH PHOTOS AND CONTINUITY TEST.
GROUNDING ELECTRODE SYSTEM AND SUBSYSTEMS	P/S	DWGS E-101/A; E-201/A; E-202/A; DA PAM 385-64-17-28; NFPA 780.8.10; UFC 4-420-01-3.8.4,5	VISUALLY INSPECT GROUNDING ELECTRODE SYSTEM, INCLUDING BONDING CONNECTIONS, GROUNDING ELECTRODES, COUNTERPOISE CABLE, BONDING CABLES AND SUBSURFACE BONDING CABLES PRIOR TO BURIAL. DOCUMENT INSPECTION WITH REPORT AND PHOTOGRAPHS FOR SUBMISSION TO THE GOVERNMENT. DAMAGED, FRAYED, OR CORROSIVE COMPONENTS SHALL BE REPLACED.
GROUNDING ELECTRODE SYSTEM TESTS	P/S	DA PAM 385-64-17-28; NFPA 780.8.10; UFC 4-420-01-3.8.4	TEST THE GROUNDING ELECTRODE SYSTEM AFTER INSPECTION. DOCUMENT TEST RESULTS IN REPORT TO THE GOVERNMENT.
LIGHTNING PROTECTION BONDING INSPECTION AND TESTING	P/S	DWGS E-101/A; E-201/A; E-202/A; DA PAM 385-64-17-28; NFPA 780.8.10; UFC 4-420-01-3.8.4,5,6	INSPECT AND TEST 100% OF LPS BONDS PRIOR TO PROJECT COMPLETION. DOCUMENT TEST RESULTS FOR SUBMISSION TO THE GOVERNMENT. PROVIDE PHOTOGRAPHIC RECORDS OF SUBSURFACE BONDS.
LPS COMPONENTS	P	DWGS E-101/A; NFPA 780.8.10; DA PAM 385-64-17-27	INSPECT LPS COMPONENTS FOR SECURE MOUNTING AND PROTECTION AGAINST ACCIDENTAL MECHANICAL DISPLACEMENT.
EARTH COVER	P	DWGS S-301-302	INSPECT DEPTH GAUGES ON ROOF PRIOR TO EARTH COVER PLACEMENT FOR SIZE AND STABILITY. INSPECT EARTH COVER DEPTH AND SLOPE TO ENSURE A 2' MIN. IS PROVIDED ABOVE STRUCTURE
DOOR LAPS	C	DWG S-701	INSPECT DOOR LAPS AT TOP AND BOTTOM OF DOOR FRAME

## SPECIAL INSPECTION NOTES:

- 1 INSPECTION INTERVALS ARE AS FOLLOWS:  
C - Continuous: The full-time observation of work requiring special inspection by an approved special inspector who is present in the area where the work is being performed  
P - Periodic: The part-time or intermittent observation of work requiring special inspection by an approved special inspector who is present in the area where the work has been or is being performed and at the completion of the work.
- 2 STRUCTURAL TEST AND SPECIAL INSPECTIONS ARE BASED ON CHAPTER 17 OF THE IBC LATEST EDITION
- 3 CONTRACTOR SHALL HIRE A QUALIFIED INSPECTION AND TESTING AGENCY TO PERFORM SPECIAL INSPECTIONS AND TESTING IN ACCORDANCE WITH THE IBC. SUBMIT INSPECTION REPORTS TO THE CONTRACTING OFFICER FOR EACH DAY SPECIAL INSPECTIONS AND TESTING IS PERFORMED.

## DESIGNER NOTES: TO BE REMOVED WHEN PREPARING CONSTRUCTION DRAWINGS FOR SITE ADAPTION OF THIS DESIGN

1. SPECIAL INSPECTION SCHEDULE SHALL BE REVISED TO REFLECT SPECIFIC PROJECT REQUIREMENTS IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE AND UFC 3-301-01; HOWEVER, AT A MINIMUM EDIT UFGS 01 45 36 "SPECIAL INSPECTIONS" TO INCORPORATE THE SPECIAL ITEMS RELATED TO THE OTHER EXPLOSIVES SAFETY RELATED ITEMS FOR INSPECTION AS SHOWN ON THIS SCHEDULE.

U.S. ARMY CORPS OF ENGINEERS ENGINEERING AND SUPPORT CENTER HUNTSVILLE, ALABAMA	DESIGNED BY: J. JUMPIREY	ISSUE DATE: SEPTEMBER 2025
	DRAWN BY: J. JUMPIREY	SPECIFICATION NO.:
	CHECKED BY: R. WRIGHT	CONTRACT NO.:
	SUBMITTED BY: FES MX	
	SIZE: ANSI D	MARK:

 MODULAR STORAGE MAGAZINE  
Rox-Type Flow-Thru  
STD 421-30-10 (REV. 1)

SPECIAL INSPECTIONS

SHEET ID	S-002
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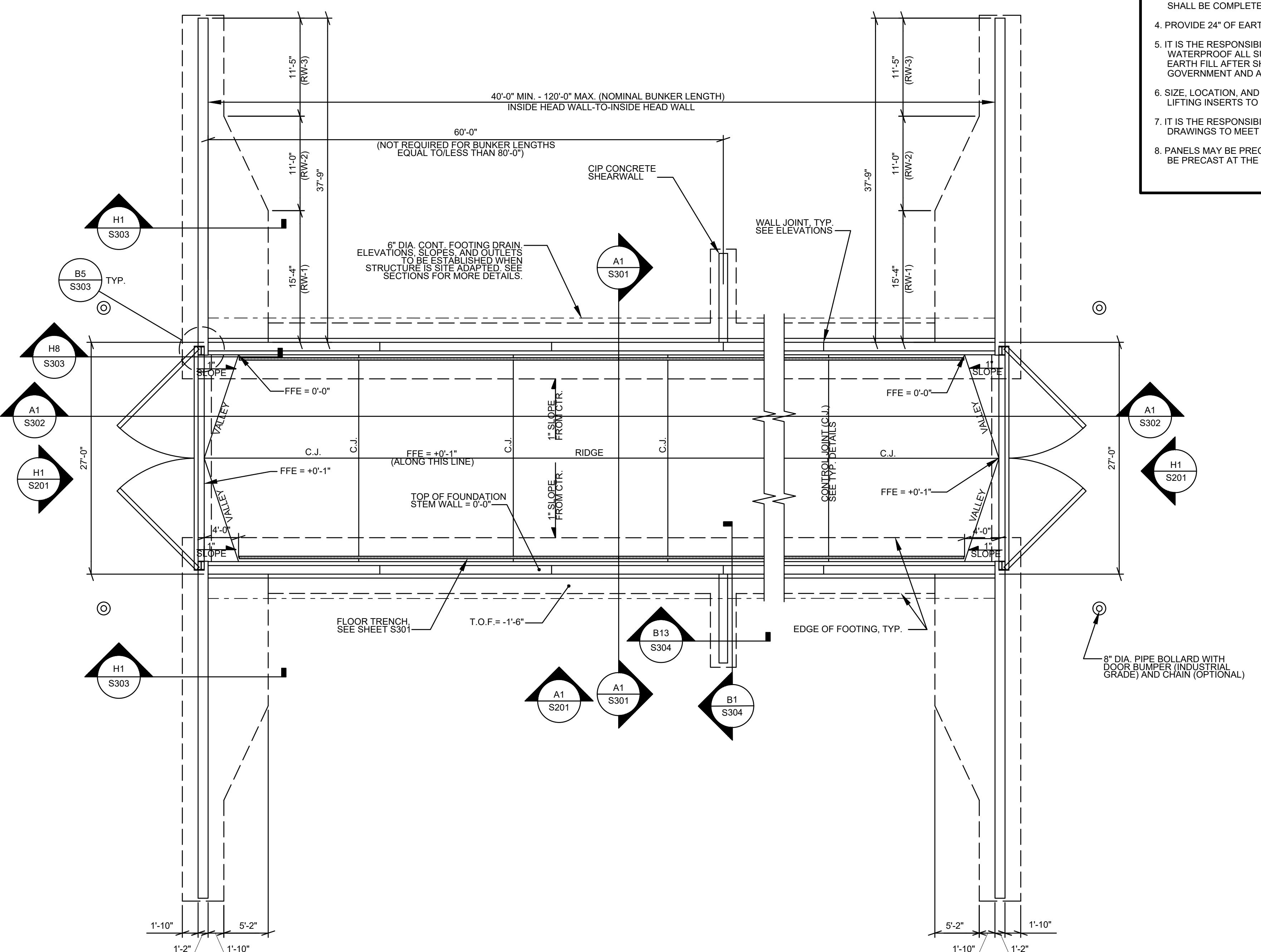
## GENERAL SHEET NOTES

1. TOP OF SLAB (FINISH FLOOR ELEVATION) = 0'-0" U.O.N.
2. SLAB-ON-GRADE: 6" CONCRETE ON 4" CAPILLARY WATER BARRIER AND VAPOR BARRIER, REINFORCED WITH #4 AT 12" O.C. EACH WAY SUPPORTED 1 1/2" FROM TOP OF SLAB UNO.
3. PLACE CONTROL JOINTS IN SLAB-ON-GRADE AT 18'-0" O.C. (MAX.). CONTROL JOINTS SHALL BE COMPLETED AS SOON AS POSSIBLE.
4. PROVIDE 24" OF EARTH COVER MINIMUM ON ROOF.
5. IT IS THE RESPONSIBILITY OF THE SITE-ADAPT DESIGNER-OF-RECORD TO WATERPROOF ALL SURFACES OF THE SHELTER WHICH WILL BE IN CONTACT WITH EARTH FILL AFTER SHELTER IS ERECTED. SUBMIT SHOP DRAWINGS FOR GOVERNMENT AND AE APPROVAL.
6. SIZE, LOCATION, AND QUANTITY OF TILT-UP BRACE ATTACHMENT POINTS AND LIFTING INSERTS TO BE DETERMINED BY CONTRACTOR/PRECAST MANF..
7. IT IS THE RESPONSIBILITY OF THE SITE ADAPTION ENGINEER TO MODIFY THESE DRAWINGS TO MEET LOCAL SITING, FOUNDATION, AND TOPOGRAPHIC CONDITIONS.
8. PANELS MAY BE PRECAST BY A MANUFACTURER SPECIALIZING IN PRECAST OR MAY BE PRECAST AT THE JOB-SITE.



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10



**C5 FOUNDATION PLAN**  
SCALE: 1/8"=1'-0"

SCALE: 1/8

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BOX-TYPE, FLOW-THRU  
421-80-10 (REV. 1)

BOX-TYPE, FLOW-THRU  
421-80-10 (REV. 1)

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A vertical line with three rectangular cutouts, resembling a stylized 'U' shape.











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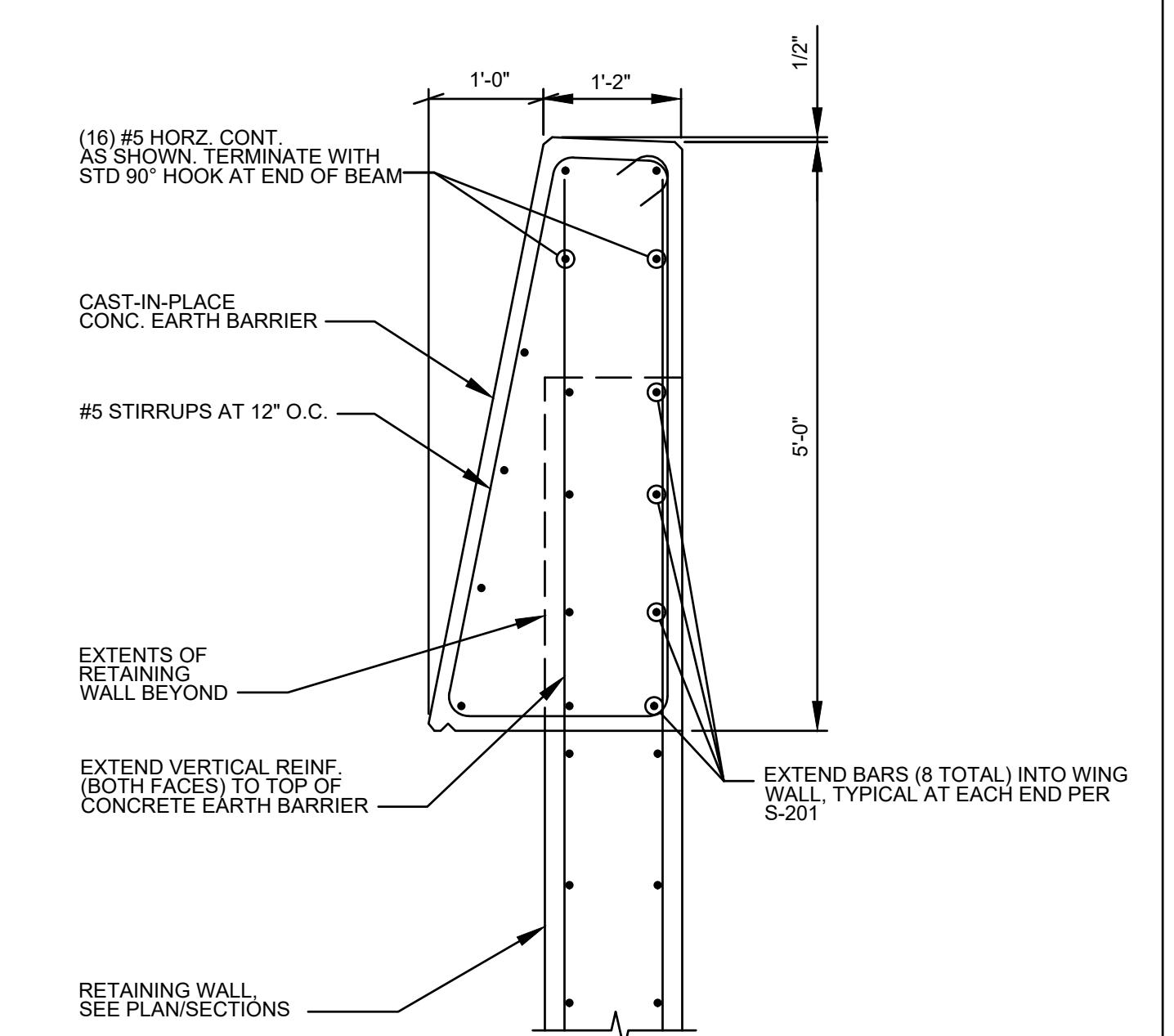
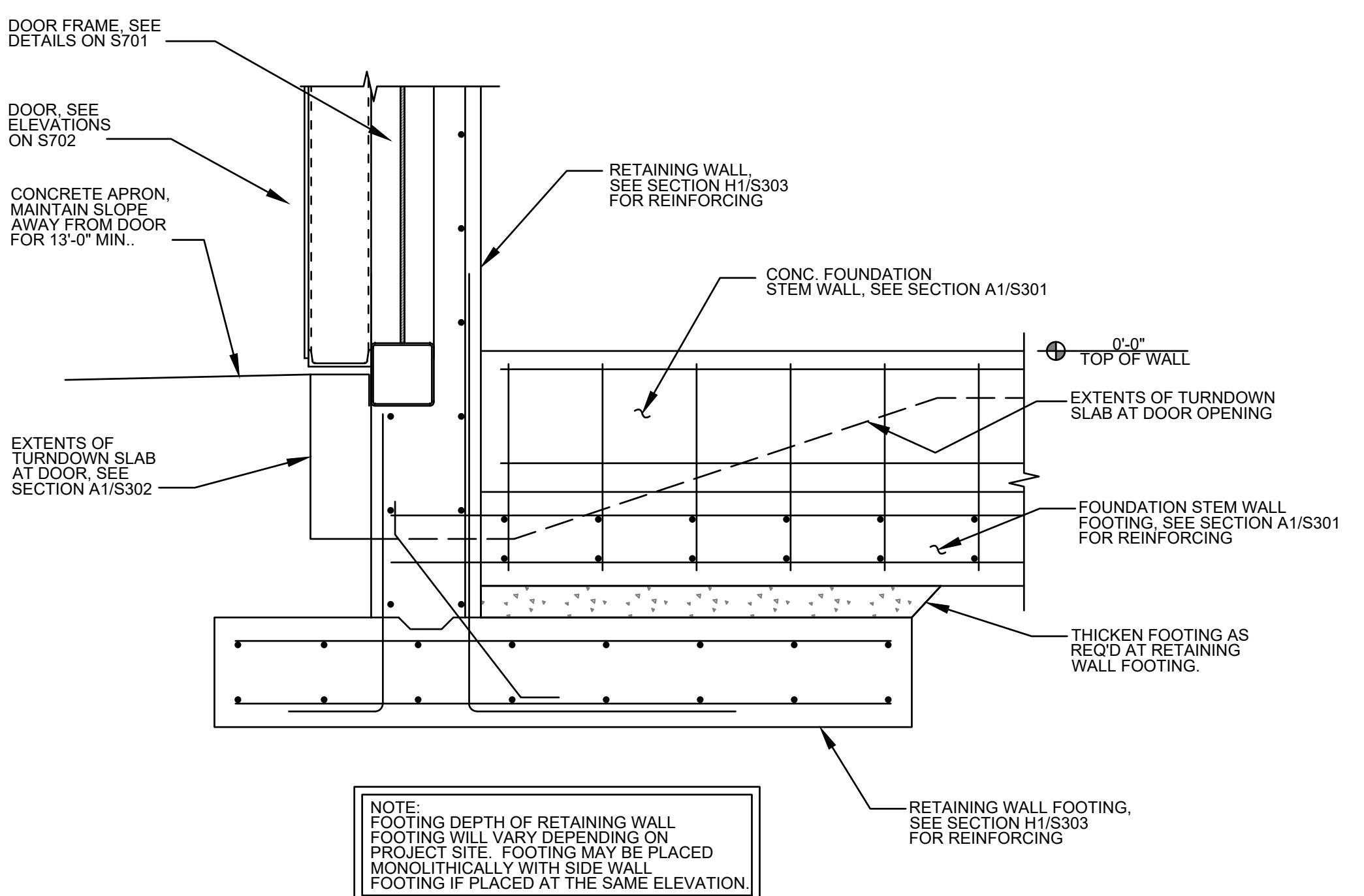
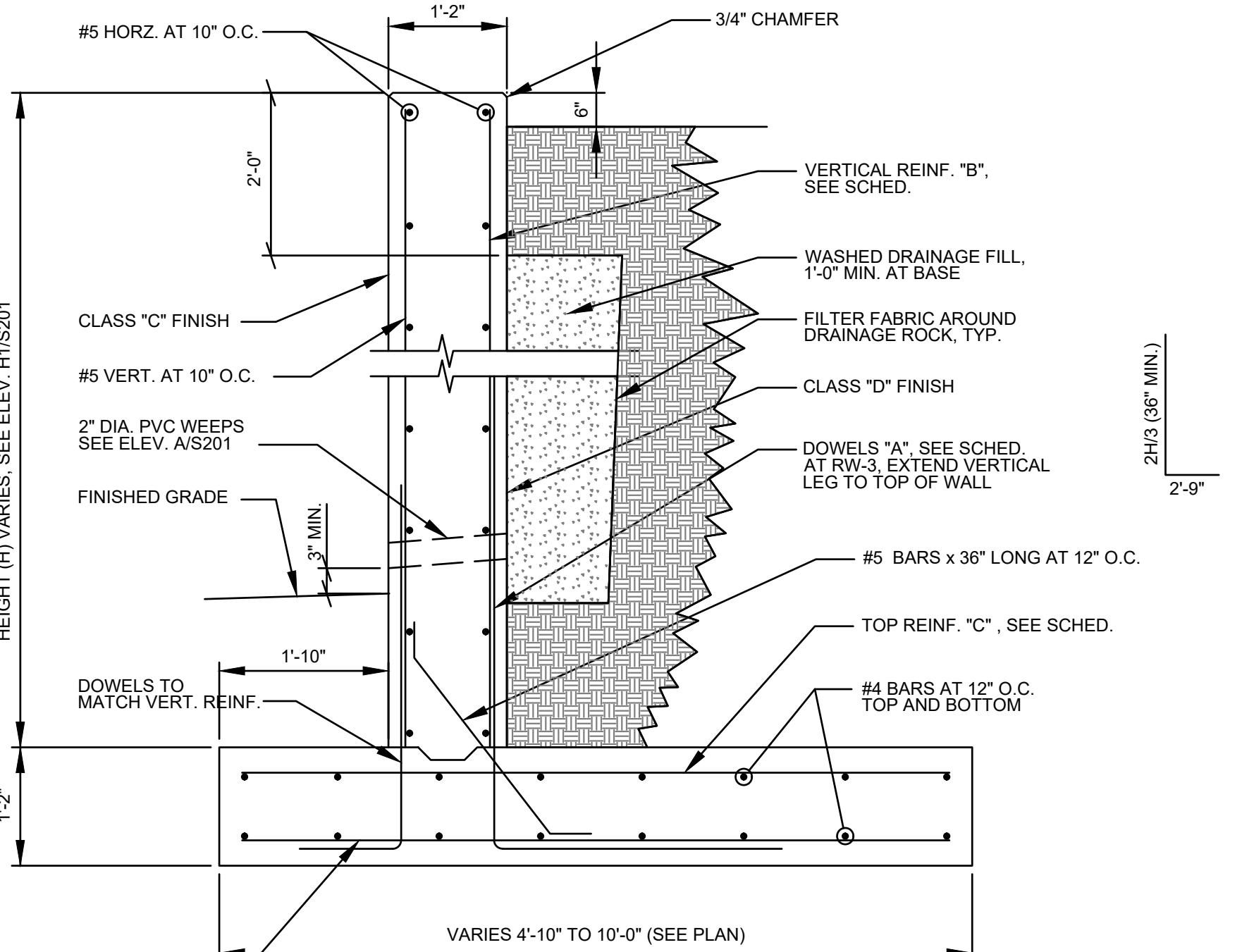
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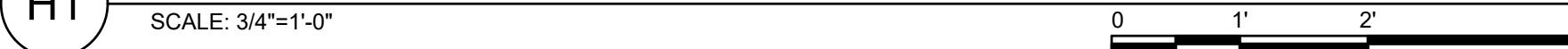
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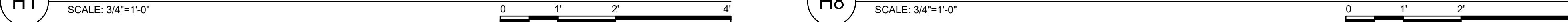
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H1 SCALE: 3/4"=1'-0"



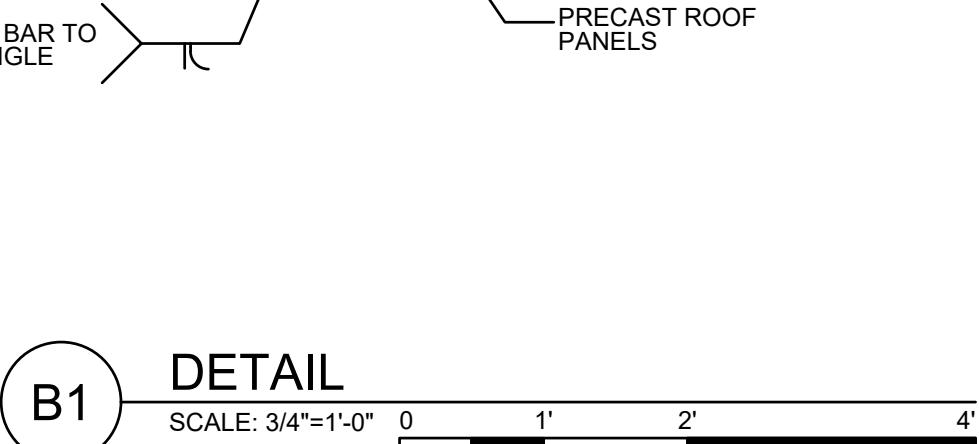
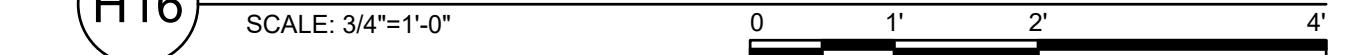
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H8 SCALE: 3/4"=1'-0"



**SECTION**

H16 SCALE: 3/4"=1'-0"



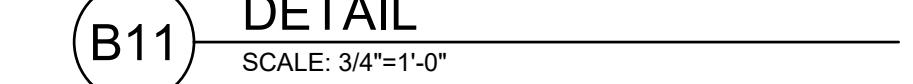
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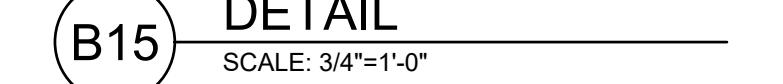
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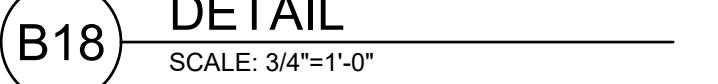
**DETAIL**

B15 SCALE: 3/4"=1'-0"



**DETAIL**

B18 SCALE: 3/4"=1'-0"



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HUNTSVILLE, ALABAMA

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BOX-TYPE FLW-THRUL  
STD 421-80-10 (REV. 1)

SECTIONS

SHEET ID

S-303

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SEPTEMBER 2025

SOLICITATION NO.:  
J. JUMPIREY

CONTRACT NO.:  
R. WRIGHT

MARK

DATE

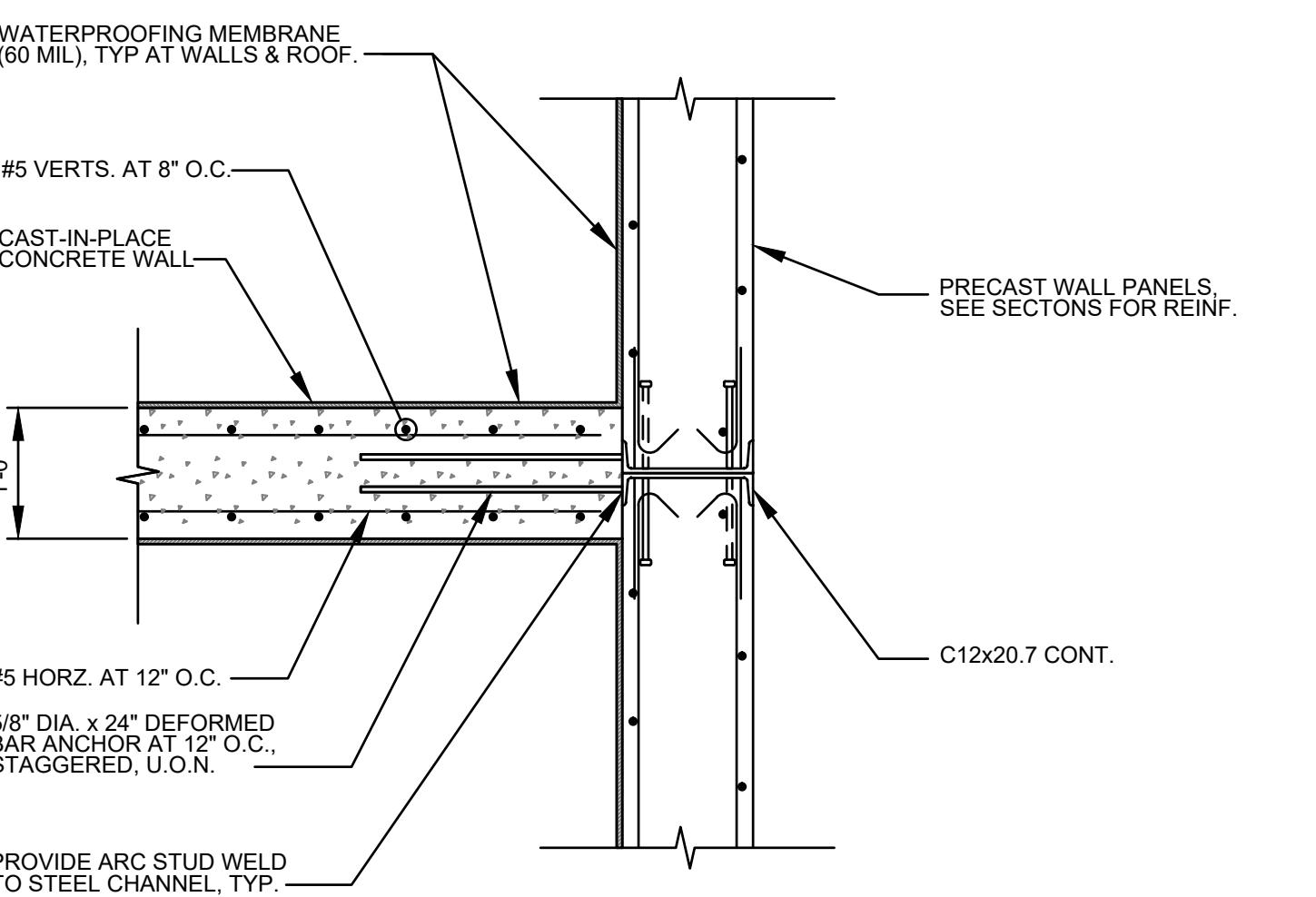
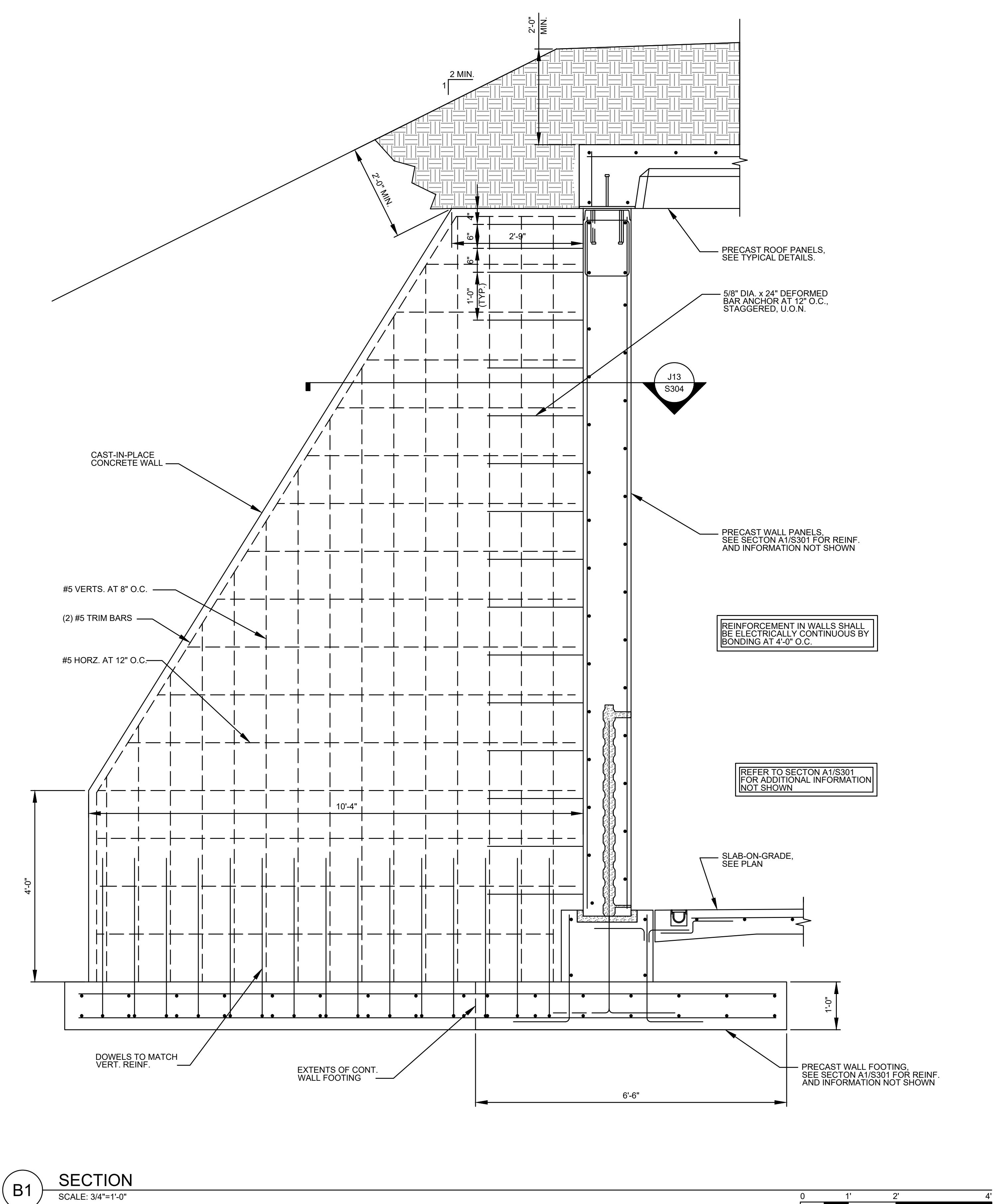
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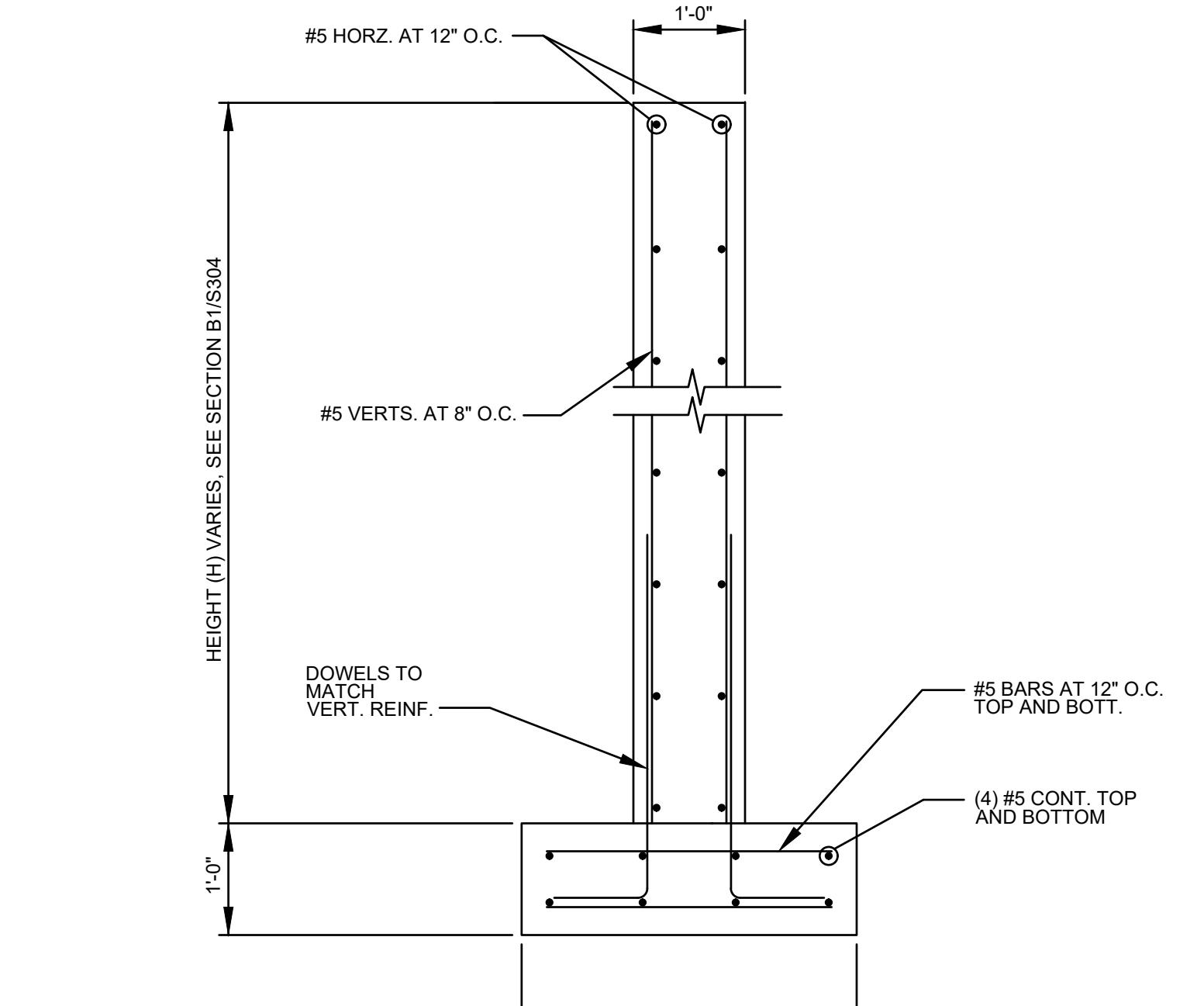
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**J13** SECTION

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

0 1' 2' 4'

**B13** SECTION

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

0 1' 2' 4'

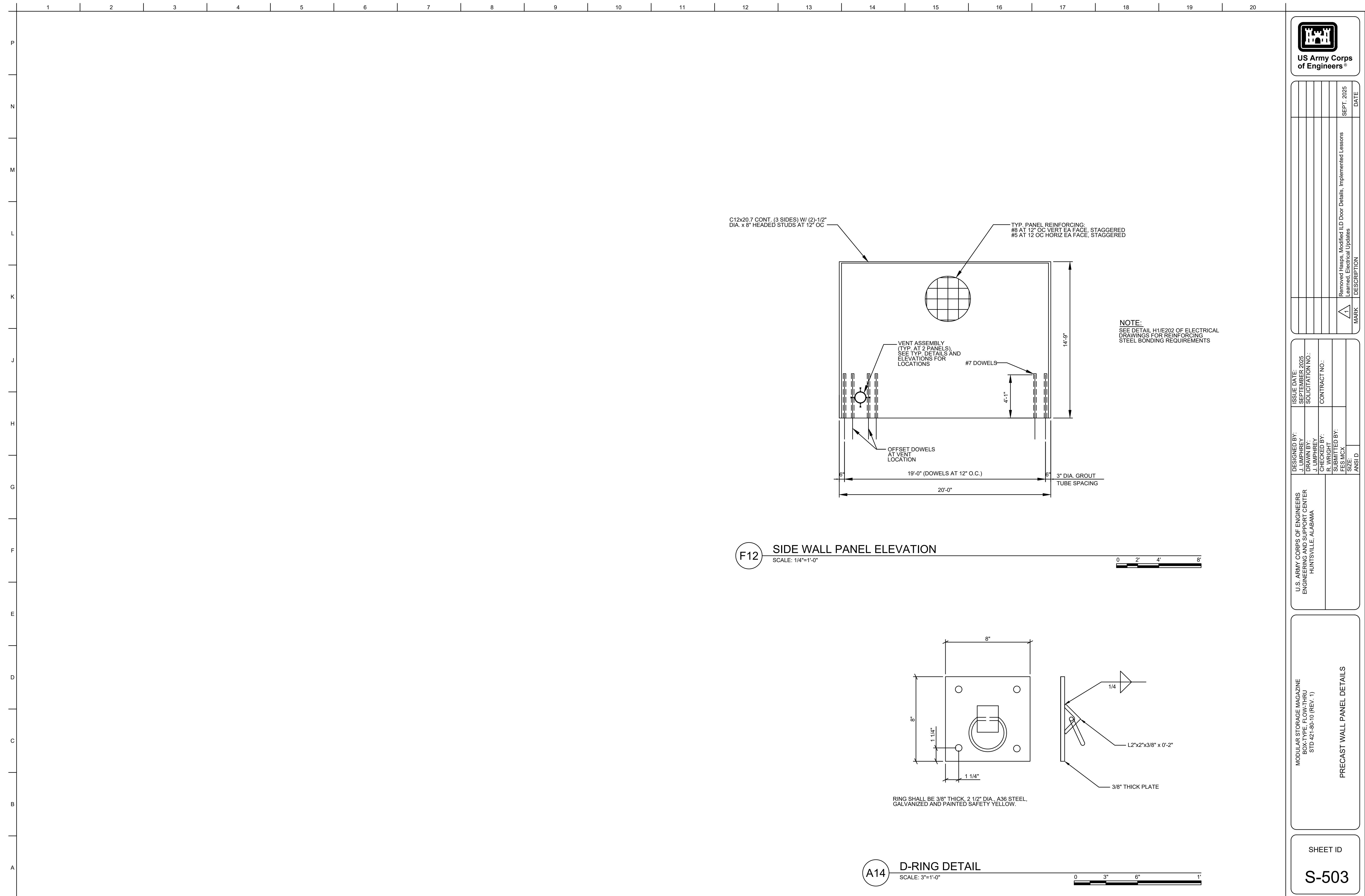
U.S. ARMY CORPS OF ENGINEERS ENGINEERING AND SUPPORT CENTER HUNTSVILLE, ALABAMA	DESIGNED BY: J. JUMPIREY	ISSUE DATE: SEPTEMBER 2025
	DRAWN BY: J. JUMPIREY	SPECIFICATION NO.:
	CHECKED BY: R. WRIGHT	CONTRACT NO.:
	SUBMITTED BY: FES INC	
	SIZE: 42" x 30"	ANSID:

MODULAR STORAGE MAGAZINE BOX-TYPE FLOOR-THRU STD 421-80-10 (REV. 1)		
SECTIONS		

SHEET ID	S-304
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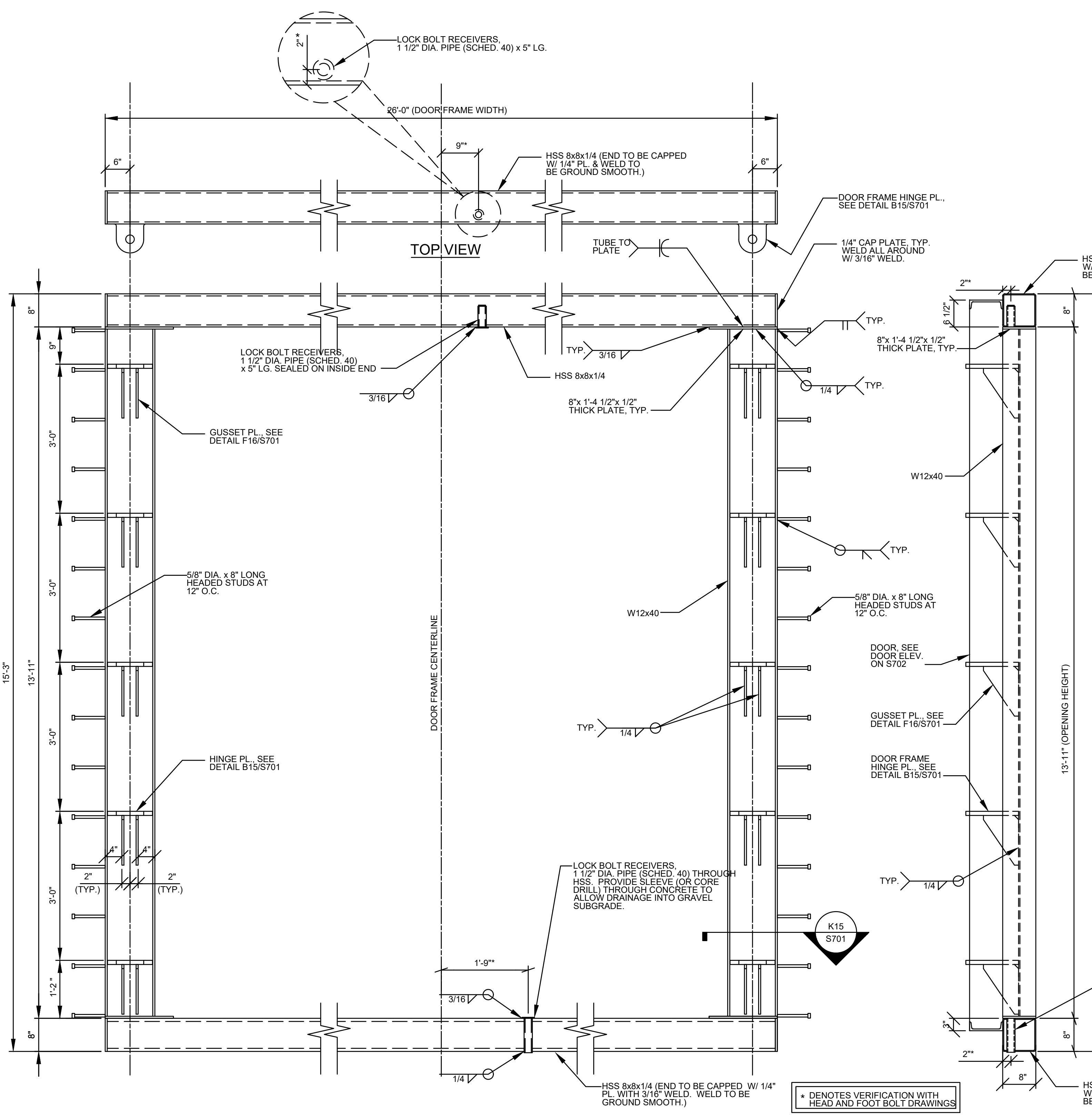
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ROX-TYPE FLOW-THRU  
STD 421-80-10 (REV. 1)

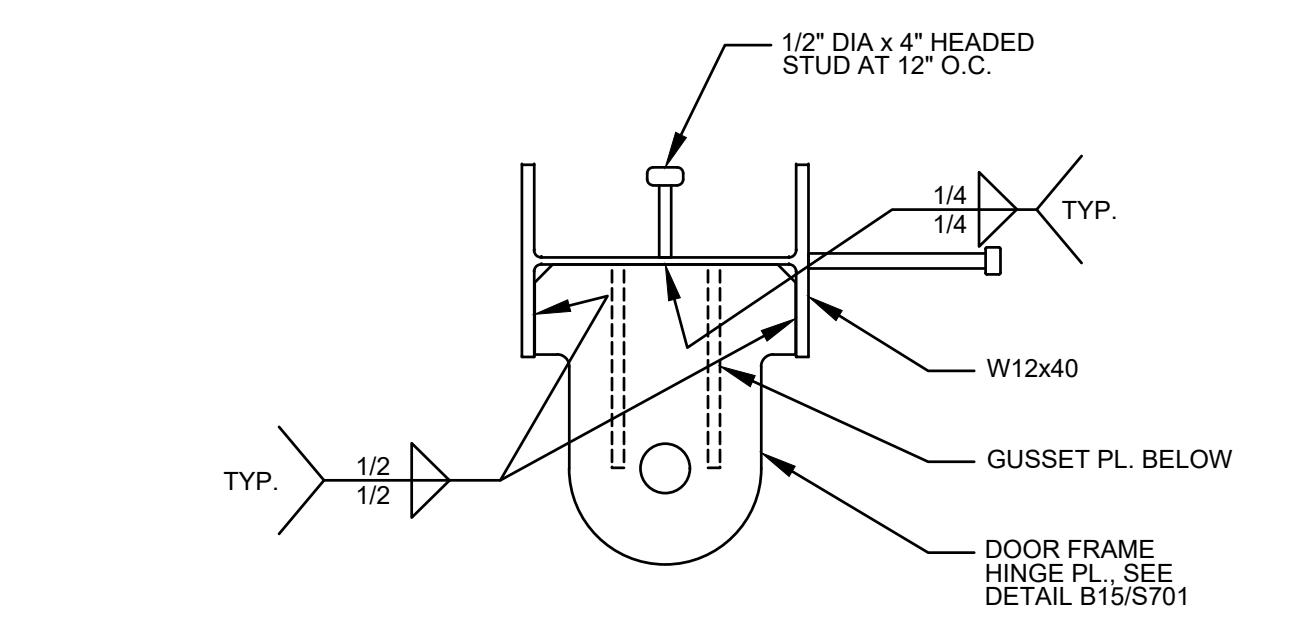
DOOR FRAME ELEVATIONS

SHEET ID

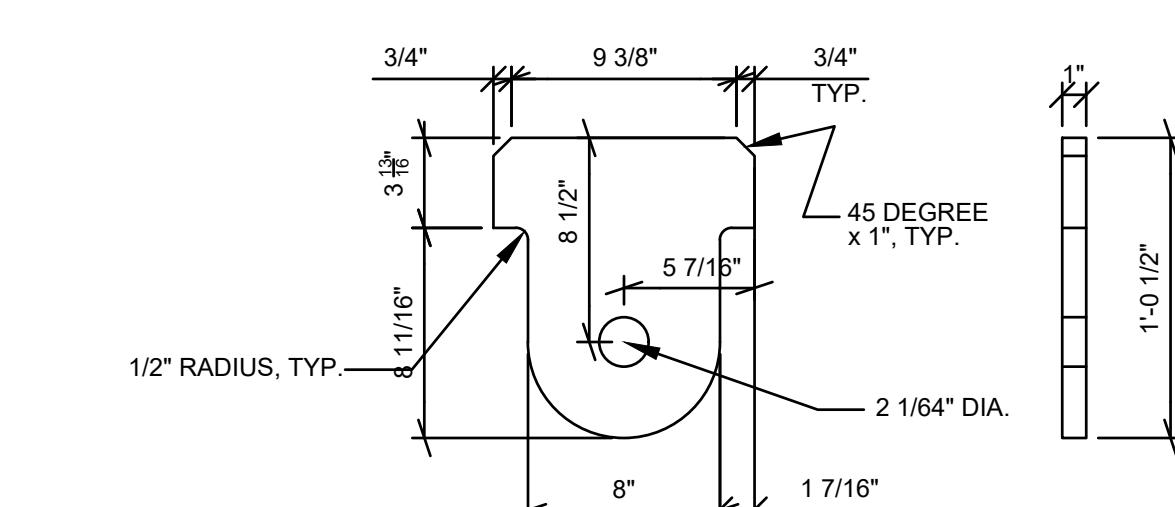
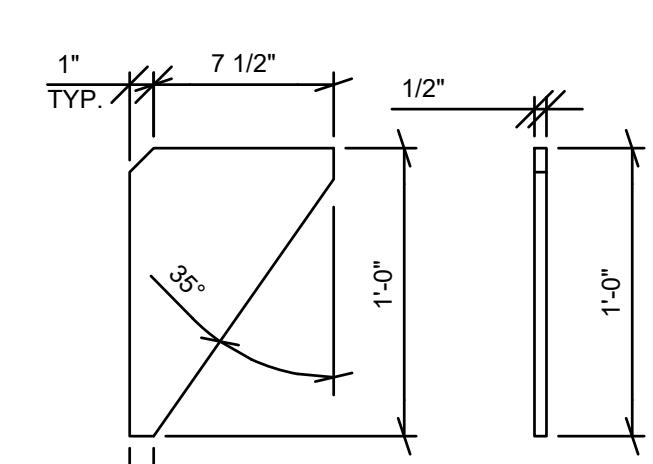
S-701



0 1' 2' 4'



0 6" 1' 2'



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ENGINEERING AND SUPPORT CENTER HUNTSVILLE, ALABAMA		SOLICITATION NO.:	
J. JUMPIREY		CONTRACT NO.:	
R. WRIGHT		CHECKED BY:	
FES/MCX		SUBMITTED BY:	
ANSID		SIZE:	
MARK		DESCRIPTION:	
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MARK			SEPT. 2025
			DATE

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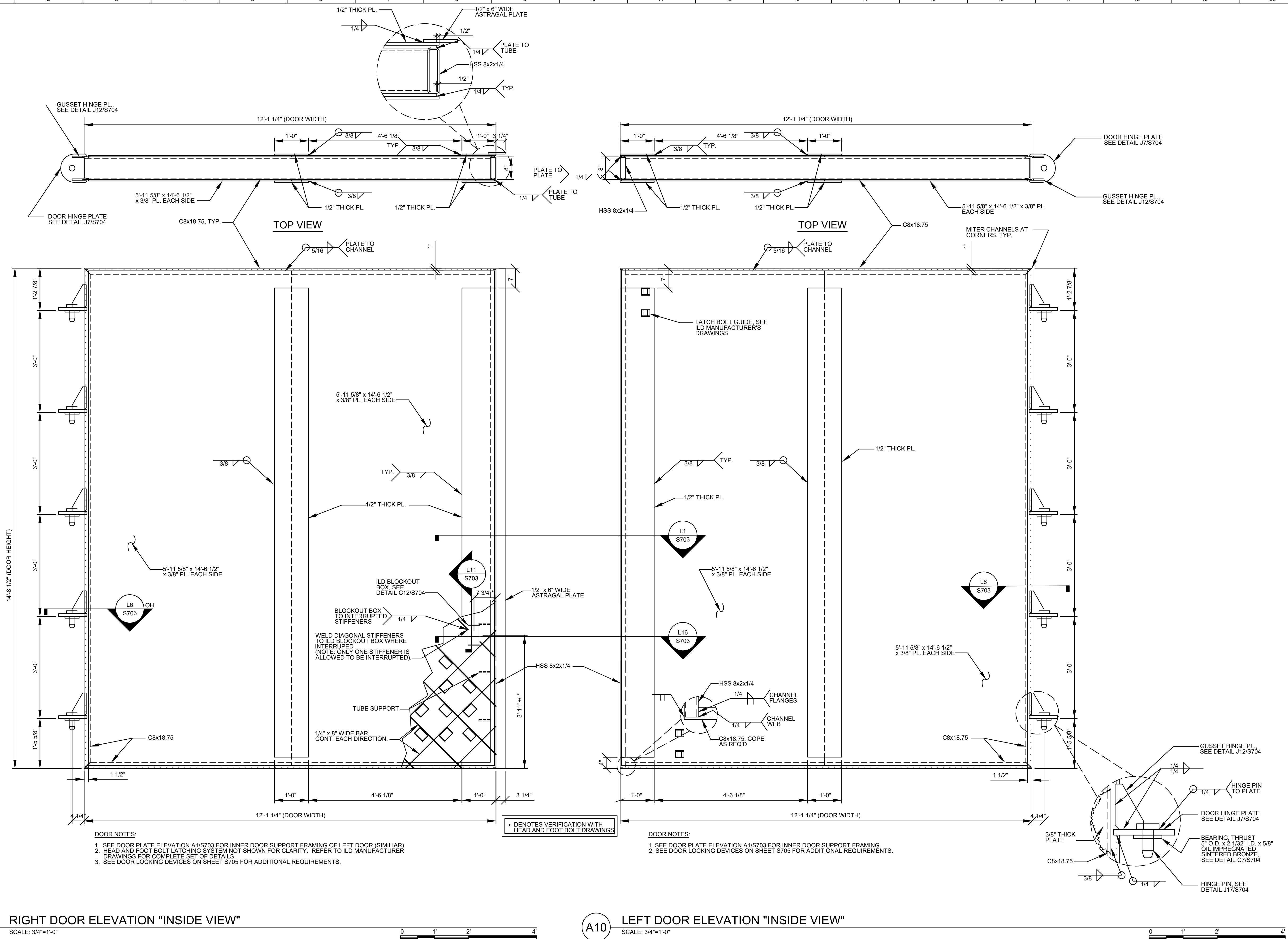
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STD 421-80-10 (REV. 1)

DOOR ELEVATIONS

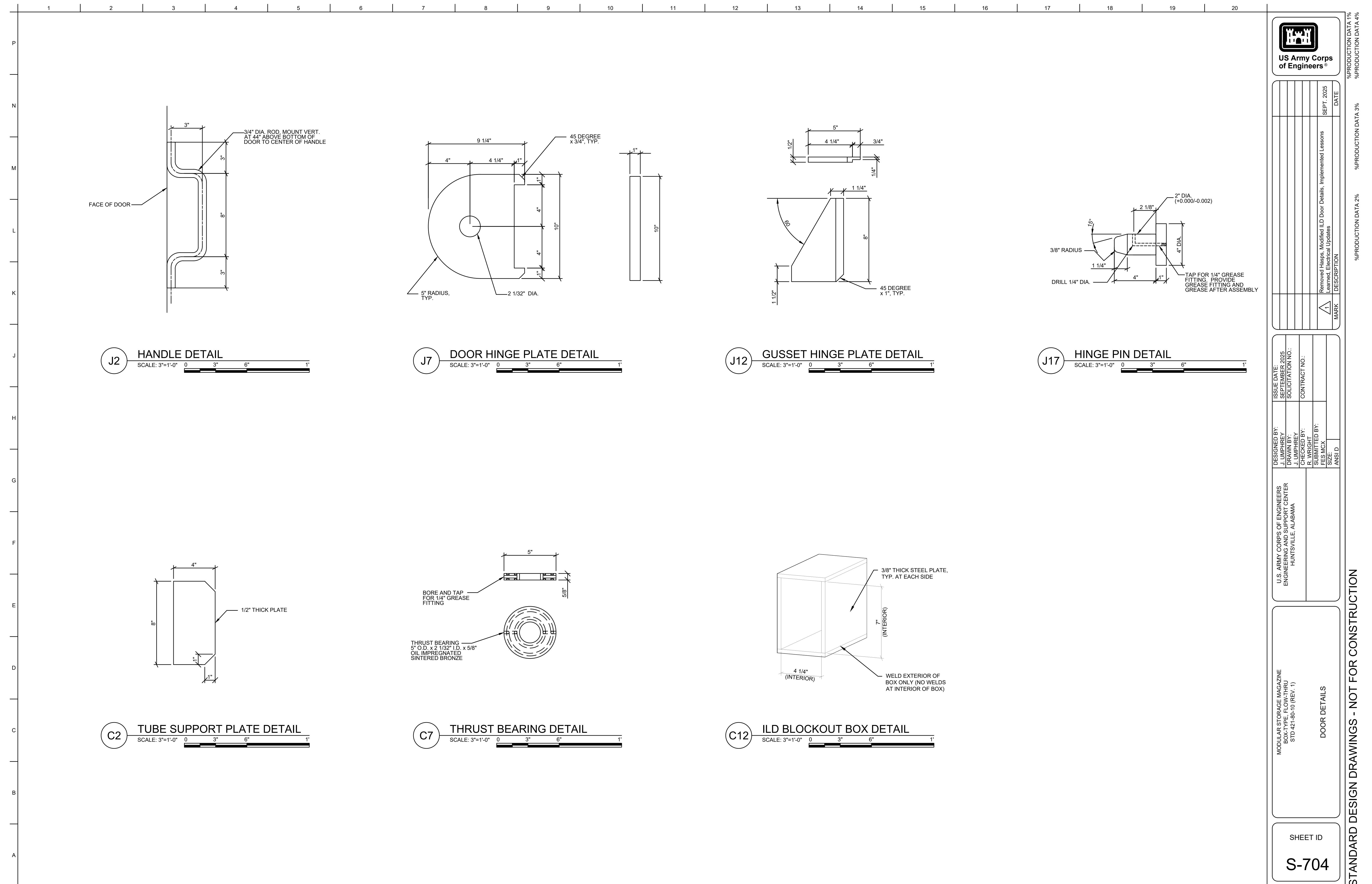
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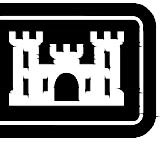
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## GENERAL SHEET NOTES



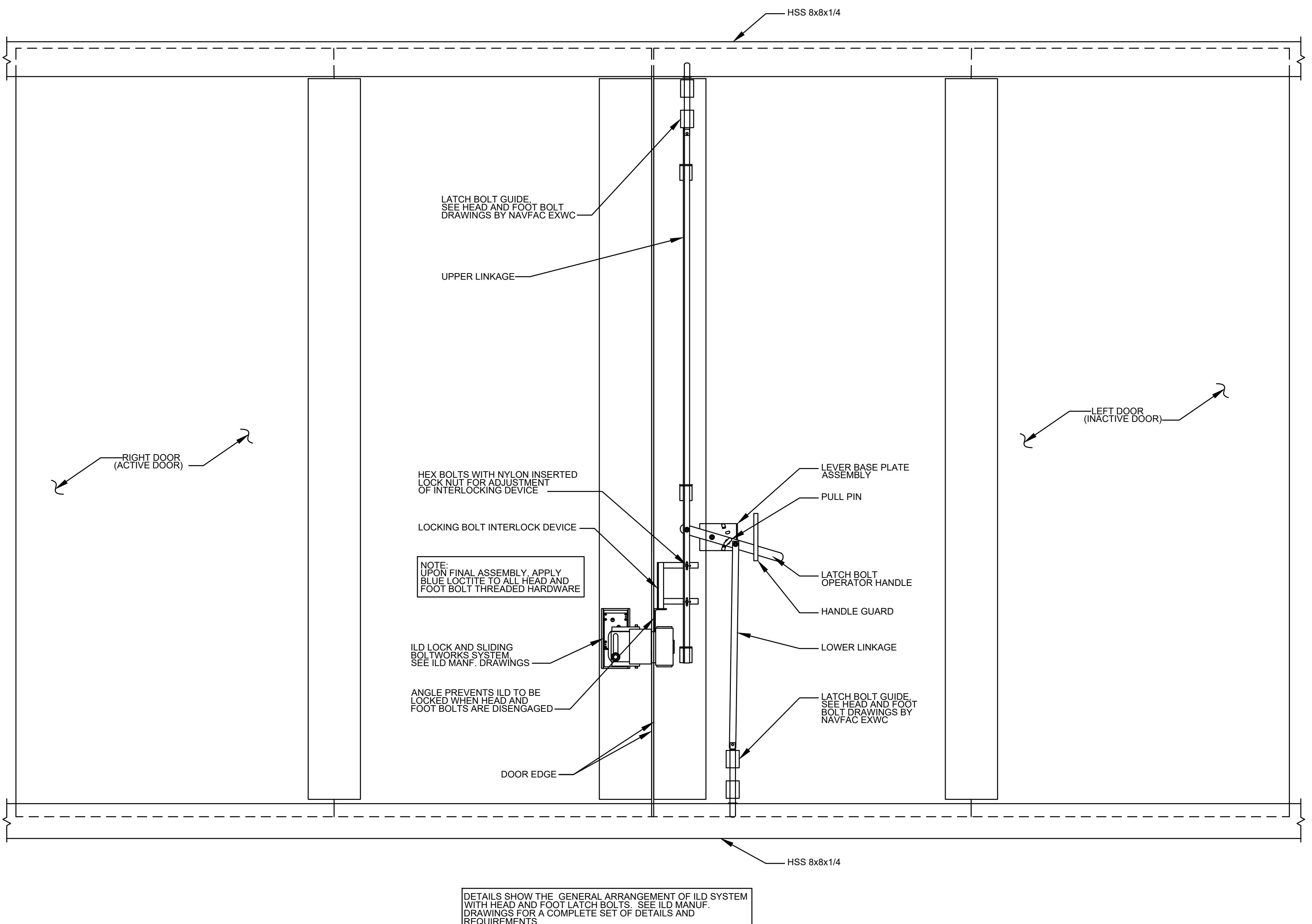
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LOS

1. THE INTERNAL LOCKING DEVICE (ILD), THE SLIDING BOLTWORKS, AND HEAD AND FOOT BOLT DRAWINGS ARE A U.S. GOVERNMENT DESIGNED AND PATENTED LOCKING SYSTEM. THE SLIDING BOLTWORKS AND HEAD AND FOOT BOLT DRAWINGS SHALL BE OBTAINED THROUGH THE GOVERNMENT FROM THE NAVAL FACILITIES ENGINEERING AND EXPEDITIONARY WARFARE CENTER (NAVFAC-EXWC), SECURITY ENGINEERING DIVISION, DOD LOCK PROGRAM. THE GOVERNMENT INSTALLATION AGENCY IS RESPONSIBLE FOR PURCHASING THE (ILD) LOCK DIRECTLY FROM NAVFAC-EXWC. CONTACT CAN BE MADE VIA PHONE BY CALLING 805-982-1212 OR THEIR WEBSITE ([https://portal.navfac.navy.mil/portal/page/portal/navfac/navfac\\_ww\\_pp/navfac\\_nfesc\\_pp/locks/](https://portal.navfac.navy.mil/portal/page/portal/navfac/navfac_ww_pp/navfac_nfesc_pp/locks/)) FOR ORDERING INFORMATION.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL COMPONENTS RELATED TO THE MAGAZINE DOOR OPERATING SYSTEM, INCLUDING THE SLIDING LOCKING BOLTWORKS AND HEAD AND FOOT BOLT LOCKING SYSTEM.
3. NO MODIFICATIONS AND/OR DEVIATIONS TO THE DOOR CONSTRUCTION SHOWN IN THE STANDARD DRAWINGS ARE PERMITTED TO ACCOMMODATE THE ILD UNLESS APPROVED BY THE U.S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE (STRUCTURAL BRANCH).
4. DOOR MANUFACTURER WILL COORDINATE WITH THE GOVERNMENT ON INSTALLATION AND ATTACHMENT DETAILS OF THE ILD AND PROVIDE THE NECESSARY STIFFENERS AND ADDITIONAL FRAMING (IF REQUIRED) TO ACCOMMODATE THE ILD.
5. SEE NAVFAC-EXWC SLIDING BOLTWORKS AND HEAD AND FOOT BOLT DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN IN THESE DRAWINGS.
6. SEE DOOR FRAME AND DOOR DETAILS ON SHEETS S701 - S704.
7. UPON COMPLETION OF THE MAGAZINE PROJECT, THE GOVERNMENT INSTALLATION AGENCY SHALL CONTACT NAVFAC-EXWC DOD LOCK PROGRAM FOR PROCUREMENT AND COORDINATE THE INSTALLATION OF THE ILD LOCK.



**D2 INTERNAL LOCKING DEVICE (ILD) DETAIL**  
SCALE: 3/4"=1'-0"

SCALE: 3/4"=1'-0"  
VIEW FROM INSIDE OF MAGAZINE

1' 2' 4'

U.S. ARMY CORPS OF ENGINEERS	
ENGINEERING AND SUPPORT CENTER	
HUNTSVILLE, ALABAMA	
J. UMPHREY	SEPTEMBER 2025
DRAWN BY:	SOLICITATION NO.:
J. UMPHREY	
CHECKED BY:	CONTRACT NO.:
R. WRIGHT	
SUBMITTED BY:	
FES MCX	
SIZE:	
ANSID	

MODULAR STORAGE MAGAZINE  
BOX-TYPE, FLOW-THRU  
STD 421-80-10 (REV. 1)

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SHEET ID

S-705

