MODULAR STORAGE MAGAZINE, 
BOX-TYPE STD 421-80-08 WITH 14'-8" DOOR
### SPECIAL INSPECTION SCHEDULE/VERIFICATION

<table>
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<th>ITEM</th>
<th>CITATION</th>
<th>REFERENCE</th>
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<tr>
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<td></td>
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<tr>
<td>Reinf. Steel Placement P</td>
<td>ACI 318: 3.5, 7.1-7.7</td>
<td></td>
<td>INSPECT SIZE, SPACING, COVER, POSITIONS AND SIZES OF REINFORCEMENT STEEL. VERIFY THAT REINFORCEMENT BARS ARE FREE OF FORM OIL OR OTHER DELETERIOUS MATERIALS. INSPECT BARS AND MECHANICAL SPACES. VERIFY THAT BARS ARE ADEQUATELY TIED AND SUPPORTED. INSPECT SPACING AND CLEARANCES.</td>
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<tr>
<td>Welding of reinforcing steel C-P</td>
<td>AWS D1.4</td>
<td></td>
<td>INSPECT ALL REINFORCING STEEL WELDS. VERIFY WELDABILITY OF REINFORCING STEEL. INSPECT PREHEATING OF STEEL WHEN REQUIRED. VISUALLY INSPECT ALL REINFORCING STEEL WELDS. VERIFY WELDABILITY OF REINFORCING STEEL.</td>
</tr>
<tr>
<td>Concrete Placement C</td>
<td>ACI 318: 5.9, 5.10</td>
<td></td>
<td>INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.</td>
</tr>
<tr>
<td>Concrete sampling and testing C</td>
<td>ASTM C 172, ASTM C 31</td>
<td></td>
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<td>Form and Protection P</td>
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<td>REVIEW OF PLANT OPERATIONS AND QUALITY CONTROL PROCEDURES. INSPECT CONFORMITY OF BONDED CONCRETE MATERIALS USED AND ARMOR.</td>
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<td>Workmanship Control P</td>
<td>ASHRAE 18-11.1</td>
<td></td>
<td>INSPECT WORKMANSHIP OF PRECAST CONCRETE. INSPECT PRE-CASTED CONCRETE AND PRECAST ELEMENTS.</td>
</tr>
<tr>
<td>Connections/Embedded Items P</td>
<td>ACI 318: 5.9, 5.10</td>
<td></td>
<td>INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION OR CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.</td>
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<tr>
<td>Symbol and Testing C</td>
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<td>Cured and Test C</td>
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<tr>
<td>Erection of Precast Elements C</td>
<td>ACI 318: Ch. 16</td>
<td></td>
<td>INSPECT ERECTION OF PRECAST CONCRETE INCLUDING MEMBER CONFIGURATION, CONNECTIONS, WELDING AND GROUTING.</td>
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<td><strong>DOOR CONSTRUCTION</strong></td>
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<td>REVIEW OF FABRICATOR'S QUALITY CONTROL PROCEDURES OR ASA CERTIFICATION.</td>
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<tr>
<td>Fabricator Inspection P</td>
<td></td>
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<td>INSPECT ALL COMPONENTS OR ALL FABRICATOR'S APPROVED INDEPENDENT INSPECTOR/AGENCY REPORTS</td>
</tr>
<tr>
<td><strong>SPECIAL ITEMS RELATED TO THE OTHER EXPLOSION SAFETY RELATED ITEMS</strong></td>
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<tr>
<td>Redi-Faraday Shield P</td>
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<td></td>
<td>INSPECT REDI-FARADAY SHIELD TO ENSURE ELECTRICAL CONTINUITY BETWEEN THE CAP, WALLS, SLAB AND FOUNDATION. INSPECT CONNECTION THROUGH SOLDERING WELLS. DOCUMENT BODIES WITH PHOTOS AND CONTRARY TEST.</td>
</tr>
<tr>
<td>Grounding C</td>
<td></td>
<td></td>
<td>INSPECT INSULATION OF SUBSTATION TO ENSURE ELECTRICAL CONTINUITY BETWEEN THE CAP, WALLS, SLAB AND FOUNDATION.</td>
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<tr>
<td>Grounding System P</td>
<td>DWG E-101-52</td>
<td></td>
<td>INSPECT ALL ELECTRICAL SYSTEMS TO ENSURE NO DAMAGE, BREAKAGE, OR CORROSION HAS OCCURRED TO THE CONDUCTORS DURING INSTALLATION.</td>
</tr>
<tr>
<td>Individual Bonds P</td>
<td>NSPMA 500</td>
<td></td>
<td>INSPECT ALL BONDS FOR LOOSE CONNECTIONS THAT MIGHT RESULT IN HIGH RESISTANCE CONNECTIONS.</td>
</tr>
<tr>
<td>LPS Components P</td>
<td>NSPMA 700</td>
<td></td>
<td>INSPECT LPS COMPONENTS FOR SECURE MOUNTING AND PROTECTION AGAINST ACCIDENTAL MECHANICAL DISPLACEMENT.</td>
</tr>
<tr>
<td>LPS Testing B</td>
<td>NSPMA 700</td>
<td></td>
<td>PERFORMANCE TESTING OF EACH BOND, AND AN INDEPENDENT ELECTRONIC TEST OF THE LPS.</td>
</tr>
<tr>
<td>Earth Cover</td>
<td>DWG S-300-85</td>
<td></td>
<td>INSPECT DEPTH GAUGES ON ROOF PRIOR TO EARTH COVER PLACEMENT FOR SIZE AND STABILITY. INSPECT EARTH COVER SLOPE TO ENSURE A 2' MIN. IS PROVIDED ABOVE STRUCTURE.</td>
</tr>
<tr>
<td>Door Laps</td>
<td>DWG S-200-70C</td>
<td></td>
<td>INSPECT DOOR LAPS AT TOP AND BOTTOM OF DOOR FRAME.</td>
</tr>
</tbody>
</table>

**SPECIAL INSPECTION NOTES:**

1. Inspection intervals are as follows:
   a. Subcritical: The duration of work requiring special inspection by an approved special inspector is present in the area where the work is being performed.
   b. Periodic: The duration of work requiring special inspection by an approved special inspector 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 11 of the International Building Code. However, at a minimum the special items related to the other explosives safety related item shall be inspected as shown on this schedule.
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 FIBERMESH AND S201 W/WF SUPPORTED 2" FROM TOP OF SLAB LIND.
3. PLACE CONTROL JOINTS 18'-0" O.C. (MAX.). CONTROL JOINTS SHALL BE COMPLETED AS SOON AS POSSIBLE.
4. PROVIDE 24" OF EARTH COVERAGE MINIMUM ON ROOF.
5. WATERPROOF ALL SURFACES OF THE SHELTER WHICH WILL BE IN CONTACT WITH EARTH, FILL AFTER SHELTER IS ERECTED.
6. SIZE, LOCATION, AND QUANTITY OF TILT-UP BRACE ATTACHMENT POINTS AND LIFTING INSERTS TO BE DETERMINED BY CONTRACTOR/PRÉCAST MANUFACTURER.
7. IT IS THE RESPONSIBILITY OF THE SITE ADAPTATION 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.
1. PROVIDE 24" OF EARTH COVER MINIMUM ON ROOF.

2. WATERPROOF ALL SURFACES OF THE SHELTER WHICH WILL BE IN CONTACT WITH EARTH FILL AFTER SHELTER IS ERECTED.

3. SIZE, LOCATION, AND QUANTITY OF TILT-UP BRACE ATTACHMENT POINTS AND LIFTING INSERTS TO BE DETERMINED BY CONTRACTOR/PRECAST MANUFACTURER.

4. IT IS THE RESPONSIBILITY OF THE SITE ADOPTION ENGINEER TO MODIFY THESE DRAWINGS TO MEET LOCAL SITING, FOUNDATION, AND TOPOGRAPHIC CONDITIONS.

5. PANELS MAY BE PRECAST AT THE JOB-SITE OR MAY BE PRECAST BY A MANUFACTURER SPECIALIZING IN PRECAST OR MAY BE PRECAST AT THE JOB-SITE.

6. PROVIDE ELECTRICAL CONTINUITY WITHIN THE PRECAST ROOF PANELS BY WELDING AN ALUMINUM ELECTRODE ACROSS THE TOP CORNER OF THE PRECAST PANELS IN ONE DIRECTION. IN THE OTHER DIRECTION, WELD 1/4" DIA TYP. PANEL TO A REINFORCING WIRE.

7. PROVIDE 24" OF EARTH COVER MINIMUM ON ROOF.

8. WATERPROOF ALL SURFACES OF THE SHELTER WHICH WILL BE IN CONTACT WITH EARTH FILL AFTER SHELTER IS ERECTED.

9. SIZE, LOCATION, AND QUANTITY OF TILT-UP BRACE ATTACHMENT POINTS AND LIFTING INSERTS TO BE DETERMINED BY CONTRACTOR/PRECAST MANUFACTURER.

10. IT IS THE RESPONSIBILITY OF THE SITE ADOPTION ENGINEER TO MODIFY THESE DRAWINGS TO MEET LOCAL SITING, FOUNDATION, AND TOPOGRAPHIC CONDITIONS.

11. PANELS MAY BE PRECAST AT THE JOB-SITE OR MAY BE PRECAST BY A MANUFACTURER SPECIALIZING IN PRECAST OR MAY BE PRECAST AT THE JOB-SITE.

12. PROVIDE ELECTRICAL CONTINUITY WITHIN THE PRECAST ROOF PANELS BY WELDING AN ALUMINUM ELECTRODE ACROSS THE TOP CORNER OF THE PRECAST PANELS IN ONE DIRECTION. IN THE OTHER DIRECTION, WELD 1/4" DIA TYP. PANEL TO A REINFORCING WIRE.
CONTINUITY. (EA. FACE) FOR ELECTRICAL TO CHANNELS AND REINF. #4 BAR AT 5'-0" O.C. WELDED SEE SECTIONS FOR REINF. PRECAST WALL PANELS, BOTT. REINF. "D", 1'-2" HEIGHT (H) VARIES, SEE ELEV. A/S201 VERTICAL REINF. DOWELS TO MATCH FINISHED GRADE SEE ELEV. A/S201 2" DIA. PVC WEEPS #5 VERT. AT 12" O.C. CLASS "C" FINISH #5 HORZ. AT 12" O.C. 2'-0" MIN. 1'-2" TOP REINF. "C" WITH 90 DEG. #5 BARS X 36" LONG AT 12" O.C. STD. HOOK, SEE SCHED. TOP REINF. "D" W/ 5/8" DIA. X 5 1/2" HEADED STUD AT 12" O.C., STAGGERED. 8" BAR AT 2'-6" O.C. WELDED TO CHANNELS AD REINF. (EA. FACE) FOR ELECTRICAL CONTINUITY. PLACE 1 1/2" FROM TOP #4 A706 REBAR TYP., 2'-9" 24" W / 3/4" CHAMFER CLASS "D" FINISH DRAINAGE ROCK, TYP. FILTER FABRIC AROUND 1'-0" MIN. AT BASE WASHED DRAINAGE FILL, SEE SCHED. *** SAFETY FIRST *** *** SUPPORT VALUE ENGINEERING - IT PAYS ***
A N D  D E T A I L S  D O O R  F R A M E  E L E V A T I O N S

CONTRACT DOCUMENTS FOR THE SYSTEM NOT USED. REDUNDANT SHEETS FROM THE CONSTRUCTION LOCKING SYSTEM REQUIRED AND REMOVE THE WITH THE CONTRACTING OFFICER THE CORRECT LOCKING SYSTEMS. THE DESIGNER SHALL VERIFY S701(A) - S705(A) (ILD) IDENTIFY TWO DIFFERENT SHEETS S701 - S705 (HIGH SECURITY HASPS) AND CONSTRUCTION DRAWINGS FOR SITE ADAPTION DESIGN DESIGNER NOTE: TO BE REMOVED WHEN PREPARING *** SAFETY FIRST ***

S701

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

NOTE: CONCRETE WALLS NOT SHOWN. SEE DETAIL S303 FOR WALLS CONCRETE WALLS NOT SHOWN,NOTE:

STUD AT 12" O.C.
1/2" DIA x 4" HEADED STUD AT 12" O.C.
1/2" RADIUS 

7 1/2" x 1/2"

12" O.C.

HEADED STUDS AT 5/8" DIA. x 8" LONG

DOOR EDGE AT 1/2" DIA. x 4" LONG

HEADER PL. SEE DETAIL 2/S701

6" LONG, SEALED ON INSIDE END
HSS 3 x 1 1/2 x 3/16 x 1/2"
6" LONG, SEALED ON INSIDE END
HSS 3 x 1 1/2 x 3/16 x 1/2"

GUSSET PL. DETAIL 1

GUSSET PL. DETAIL 2

GUSSET PL. DETAIL 3

DOOR FRAME HINGE DETAIL 1

DOOR FRAME HINGE DETAIL 2

GUSSET PL. DETAIL 1

GUSSET PL. DETAIL 2

1/2" RADIUS

13 3/16"

HSS 3 x 1 1/2 x 3/16 x 1/2"

HSS 3 x 1 1/2 x 3/16 x 1/2"

HSS 3 x 1 1/2 x 3/16 x 1/2"

HSS 3 x 1 1/2 x 3/16 x 1/2"

THICK PLATE, TYP.

8"x 1'-4 1/2"x 1/2"

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THICK PLATE, TYP.

8"x 1'-4 1/2"x 1/2"

THICK PLATE, TYP.
HEADED STUDS AT 5/8" DIA. x 8" LONG
HINGE PL., SEE DETAIL 2/571
SEALED ON INSIDE END
1.5" I.D. x 1.88" O.D. x 5" LG.
LOCK BOLT RECEIVERS,
DOOR FRAME ELEVATION
1 7/8 "
26'-0" (DOOR FRAME WIDTH)
1/4
1'-7 5/8 "*
* W/ 1/4" PL. & WELD TO
TO BE GROUND SMOOTH.)
HSS 8x8x1/4 (END TO BE CAPPED
THICK PLATE, TYP.
NOTE:
CONCRETE WALLS NOT SHOWN
SEE DETAIL SIZED FOR WALLS
SIDE VIEW
HEADED STUDS AT
12" O.C.
5/8" DIA. x 8" LONG
HEADED STUDS AT
12" O.C.
W/ 1/4" PL. & WELD TO
HSS 8x8x1/4 (END TO BE CAPPED
THICK PLATE, TYP.
NOTE:
HEAVY DUTY
WEATHER STRIPPING/ SEALING
PROVIDE HEAVY DUTY
SUPPORT VALUE ENGINEERING - IT PAYS
*** SUPPORT VALUE ENGINEERING - IT PAYS ***
1. SEE DOOR PLATE ELEVATION E/S703 FOR INNER DOOR SUPPORT FRAMING.

2. SEE DOOR LOCKING DEVICES ON SHEET S705 FOR ADDITIONAL REQUIREMENTS.

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

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RIGHT DOOR ELEVATION "INSIDE VIEW"

**SUPPORT VALUE ENGINEERING - IT PAYS**
S701(A) - S705(A) (ILD) IDENTIFY TWO DIFFERENT SHEETS S701 - S705 (HIGH SECURITY HASPS) AND CONSTRUCTION DRAWINGS FOR SITE ADAPTION DESIGN.

THE DESIGNER SHALL VERIFY LOCKING SYSTEM REQUIRED AND REMOVE THE CONTRACT DOCUMENTS FOR THE SYSTEM NOT USED. REDUNDANT SHEETS FROM THE LOCKING SYSTEM REQUIRED.

CONTRACTING OFFICER THE CORRECT

AS SHOWN *** SAFETY FIRST ***

TAP FOR 1/4" GREASE FITTING. PROVIDE GREASE FITTING AND GREASE AFTER ASSEMBLY.

3/8" RADIUS

DOOR TO CENTER OF HANDLE AT 44" ABOVE BOTTOM OF DOOR

3/4" DIA. ROD, MOUNT VERT.

DOOR FACE OF 3/4" DIA. ROD, MOUNT VERT.

ADVANT BORE AND TAP FOR 1/4" GREASE FITTING.

1/4" DIA.

3/8" RADIUS

45 DEGREE

INT ford 1/4" GREASE FITTING AND GREASE AFTER ASSEMBLY.

5" O.D. x 2 1/32" I.D. x 5/8"

SINTERED BRASS

OIL IMPREGNATED

HANDLE DETAIL

HINGE PIN DETAIL

DOOR HINGE PL. DETAIL

TUBE SUPPORT PL. DETAIL

THRU ST BEARING DETAIL

GUSSET HINGE PL. DETAIL

DOOR DETAIL

DRAWN BY:

DESIGNED BY:

CHECKED BY:

US Army Corps of Engineers
Huntsville Center

HUNTSVILLE, ALABAMA
SUPPORT CENTER, ENGINEERING AND U.S. ARMY CORPS OF ENGINEERS
JUNE 2013

SCALE: 3"=1'-0"

S-704 (A)

- 704 (A)
HIGH SECURITY HASP NOTES:

1. HIGH SECURITY HASPS SHALL CONFORM TO MILITARY SPECIFICATION MIL-DTL-29181C.
   STYLE 1-HASP (M29181-01) FOR RIGHT HAND SWINGING DOOR AND STYLE 2-HASP (M29181-02) FOR LEFT HAND SWINGING DOOR. HIGH SECURITY PADLOCKS SHALL CONFORM TO MILITARY STYLE 1-HASP (M29181-01) FOR RIGHT HAND SWINGING DOOR AND STYLE 2-HASP (M29181-02) FOR LEFT HAND SWINGING DOOR.

2. NO MODIFICATIONS AND/OR DEVIATIONS TO THE DOOR CONSTRUCTION SHOWN IN THE STANDARD SPECIFICATION MIL-DTL-43607J.

3. DOOR MANUFACTURER WILL COORDINATE WITH THE GOVERNMENT ON INSTALLATION AND ATTACHMENT DETAILS OF THE HASPS AND PROVIDE THE NECESSARY STIFFENERS AND ADDITIONAL FRAMING (IF REQUIRED) TO ACCOMMODATE THE HIGH SECURITY HASPS.

4. SEE DOOR FRAME AND DOOR DETAILS ON SHEETS S701 - S704.

5. SEE CORRECT LOCKING SYSTEM REQUIRED AND REMOVE THE REDUNDANT SHEETS FROM THE CONSTRUCTION DRAWINGS FOR SITE ADAPTION DESIGN.

ADDITIONAL FRAMING (IF REQUIRED) TO ACCOMMODATE THE HIGH SECURITY HASPS.

FIGURE 1: Style 1, MK 2 MOD 1

HIGH SECURITY HASP

NOTES:

1. On back side of each half, machine or cut 2 holes to accept 8.375-inch (21.27 mm) screws each carriage bolt. Holes to be centered horizontally and vertically spaced 1.458-inch (37.03 mm) from top and bottom outside surface. Bolt hole centers 2.816 inches (71.6 mm) apart.

HIGH SECURITY HASP NOTES:

1. HIGH SECURITY HASPS SHALL CONFORM TO MILITARY SPECIFICATION MIL-DTL-29181C.
   STYLE 1-HASP (M29181-01) FOR RIGHT HAND SWINGING DOOR AND STYLE 2-HASP (M29181-02) FOR LEFT HAND SWINGING DOOR. HIGH SECURITY PADLOCKS SHALL CONFORM TO MILITARY STYLE 1-HASP (M29181-01) FOR RIGHT HAND SWINGING DOOR AND STYLE 2-HASP (M29181-02) FOR LEFT HAND SWINGING DOOR.

2. NO MODIFICATIONS AND/OR DEVIATIONS TO THE DOOR CONSTRUCTION SHOWN IN THE STANDARD SPECIFICATION MIL-DTL-43607J.

3. DOOR MANUFACTURER WILL COORDINATE WITH THE GOVERNMENT ON INSTALLATION AND ATTACHMENT DETAILS OF THE HASPS AND PROVIDE THE NECESSARY STIFFENERS AND ADDITIONAL FRAMING (IF REQUIRED) TO ACCOMMODATE THE HIGH SECURITY HASPS.

4. SEE DOOR FRAME AND DOOR DETAILS ON SHEETS S701 - S704.

5. SEE CORRECT LOCKING SYSTEM REQUIRED AND REMOVE THE REDUNDANT SHEETS FROM THE CONSTRUCTION DRAWINGS FOR SITE ADAPTION DESIGN.
1. INTERNAL LOCKING DEVICE IS A U.S. GOVERNMENT DESIGNED AND PATENTED LOCKING SYSTEM.

2. NO MODIFICATIONS AND/OR DEVIATIONS TO THE DOOR CONSTRUCTION SHOWN IN THE STANDARD DRAWINGS ARE PERMITTED TO ACCOMMODATE THE I.L.D. UNLESS APPROVED BY THE U.S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE (STRUCTURAL BRANCH).

3. DOOR MANUFACTURER WILL COORDINATE WITH THE GOVERNMENT ON INSTALLATION AND ATTACHMENT DETAILS OF THE I.L.D. AND PROVIDE THE NECESSARY STIFFENERS AND ADDITIONAL FRAMING IF REQUIRED TO ACCOMMODATE THE I.L.D.

4. SEE ILD MANUFACTURERS INSTALLATION DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN IN THESE DRAWINGS.

5. SITE DOOR FRAME AND DOOR DETAILS ON SHEETS S701(A) - S705(A).

INTERNAL LOCKING DEVICE (ILD) NOTES:

1. INTERNAL LOCKING DEVICE NOTES:

2. INTERNAL LOCKING DEVICE SYSTEM IDENTIFIED ON SHEETS S701(A) - S705(A) (ILD) IDENTIFY TWO DIFFERENT LOCKING SYSTEMS. THE DESIGNER SHALL VERIFY THE CONTRACT DOCUMENTS FOR THE SYSTEM NOT USED.

3. SEE DOOR FRAME AND DOOR DETAILS ON SHEETS S701(A) - S705(A).

4. SEE MANUFACTURER DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN ON THESE DRAWINGS.

5. SUPPORT VALUE ENGINEERING - IT PAYS.