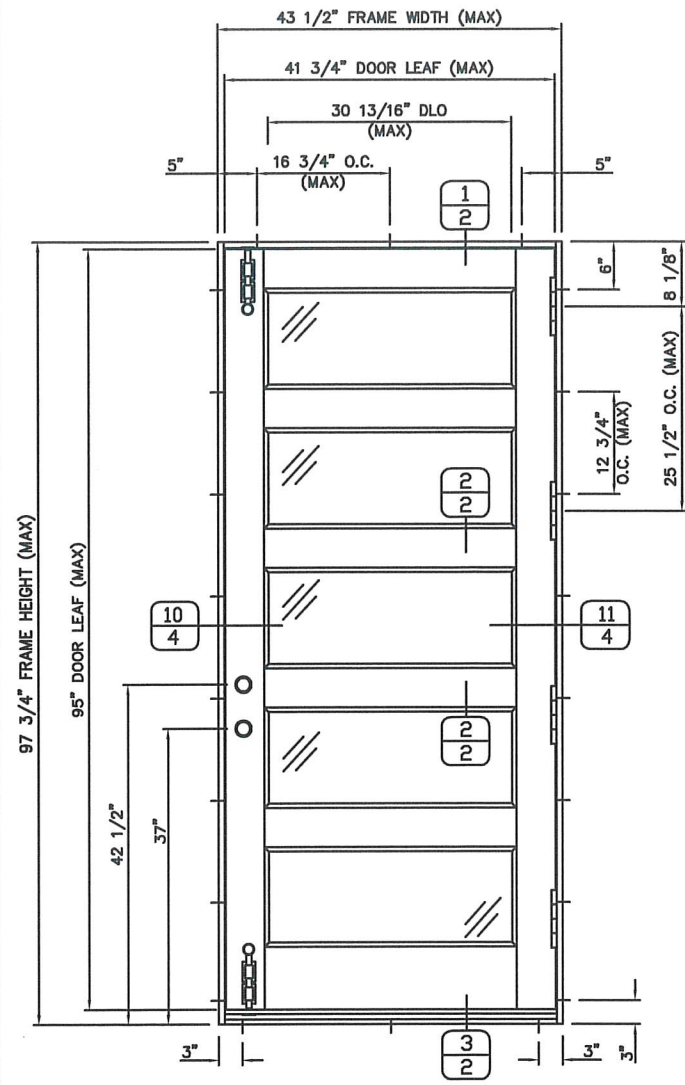
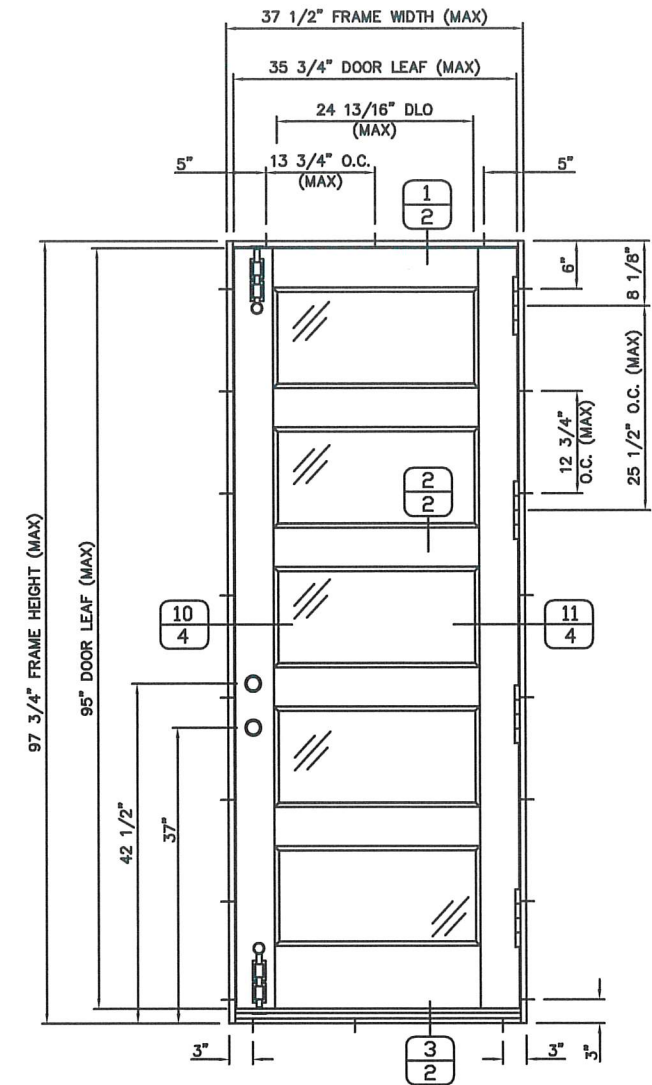




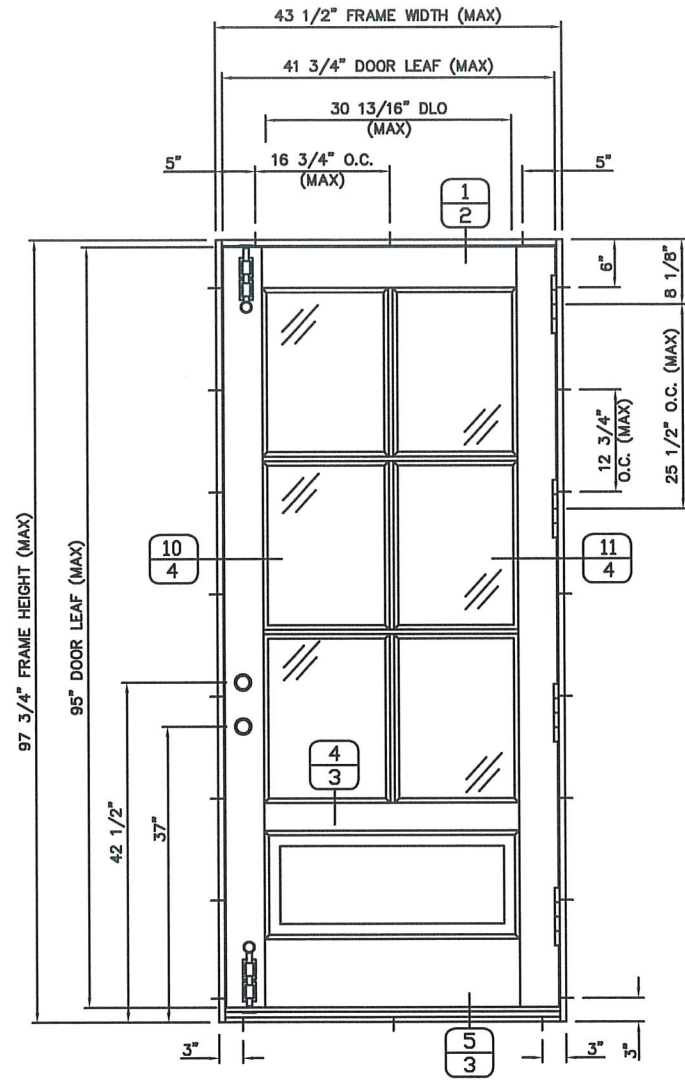
GLAZED FIBERGLASS SINGLE DOOR  
(INTERIOR VIEW)

|                            |
|----------------------------|
| MAXIMUM DESIGN<br>PRESSURE |
| +/- 45.11 PSF              |



GLAZED FIBERGLASS SINGLE DOOR  
(INTERIOR VIEW)

|                            |
|----------------------------|
| MAXIMUM DESIGN<br>PRESSURE |
| +/- 60.15 PSF              |



GLAZED FIBERGLASS SINGLE DOOR  
WITH OPTIONAL MUTINS

|                            |
|----------------------------|
| MAXIMUM DESIGN<br>PRESSURE |
| +/- 50.13 PSF              |

- GENERAL NOTES:**
1. THIS SYSTEM HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, FOR USE OUTSIDE THE HVHZ. THIS SYSTEM IS NOT IMPACT RESISTANT, SHUTTERS ARE REQUIRED IN WINDBORNE DEBRIS REGIONS.
  2. DESIGN LOADS MUST BE CALCULATED BY A PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT.THE PROJECT PRESSURE CANNOT EXCEED THE DESIGN PRESSURE LISTED FOR EACH ELEVATION.
  3. THIS SYSTEM IS NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. THE SYSTEM MUST BE PROTECTED BY AN OVERHANG THAT PROJECTS OUT FARTHER THAN ITS HEIGHT FROM THE GROUND.
  4. ALL ANCHORS SECURING THE SYSTEM TO PRESSURE TREATED WOOD SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE CHEMICALS IN THE WOOD.
  5. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GLAVANIC REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23.
  6. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. Cd=1.6 WAS USED FOR WOOD SCREWS ONLY.

**OTHER APPROVED SHAPES:**



**CORNER CONSTRUCTION:**

**FRAME CORNERS:** HORIZONTAL FRAME ENDS ARE COPED AND BUTTED TO VERTICAL FRAME JAMBS WITH JOINT FULLY GLUED WITH WOOD GLUE AND FASTENED WITH (4) #10 x 2 1/2" BUGLE-HEAD SCREWS.

**PANEL CORNERS:** HORIZONTAL RAILS ARE COPED AND BUTTED TO VERTICAL STILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (5) 5/8" x 4 1/2" DOWELS.AT BOTTOM RAIL AND (3) 5/8" x 4 1/2" DOWELS AT TOP RAIL.

**MID-RAIL INTERSECTIONS:** THE HORIZONTAL MID-RAILS ARE COPED AND BUTTED TO VERTICAL STILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (3) 5/8" x 4 1/2" DOWELS.

**HARDWARE SCHEDULE:**

**LOCKS:** KWIKSET 800CE OR SCHLAGE F58 LOCKSET. DEADBOLT AND DEADLATCH ARE FASTENED TO ACTIVE DOOR LOCK STILE WITH (2) #8 x 5/8" WOOD SCREWS.

**STRIKE PLATES:** THE DEADBOLT AND DEADLATCH STRIKE PLATES ARE ATTACHED TO THE ASTRAGAL WITH (2) #8 x 2" WOOD SCREWS.

**FLUSH BOLTS:** CAL-ROYAL ULFB634 FLUSH BOLT. THE FLUSH BOLTS ARE ATTACHED AT TOP AND BOTTOM OF THE ASTRAGAL WITH (4) #8 x 3/4" WOOD SCREWS. A STRIKE PLATE IS ATTACHED AT THE HEAD WITH (2) #8 x 3" WOOD SCREWS.

**SURFACE BOLTS:** DELTANA 12SB26D SURFACE BOLT AT TOP AND BOTTOM OF BOTH ACTIVE AND INACTIVE DOOR LEAF. EACH SURFACE BOLT IS CAPTURED BY (2) SLEEVES FASTENED WITH (4) #8 x 1 1/4" WOOD SCREWS. STRIKE PLATES ARE ATTACHED AT THE HEAD WITH (3) #6 x 2" WOOD SCREWS.

**HINGES:** SGS 158 SERIES 5 BARREL BUTT HINGE, (4) PER LEAF. HINGES ARE FASTENED TO DOOR WITH (2) #10 x 1" AND (2) #10 x 3" WOOD SCREWS, AND FASTENED TO THE FRAME WITH (2) #10 x 1" AND (2) #10x2 1/2" WOOD SCREWS.

**SWING:** DOORS MAY BE INSTALLED AS INSWING OR OUTSWING.

SCOTT WOLTERS  
FL PE# 62354

WOLTERS ENGINEERING, INC.  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX: (561) 225-1982

DWG: **HWMF-2**  
SHEET: **1/5**

**SINGLE FIBERGLASS GLAZED DOOR (NON-IMPACT)**

HOELSCHER WEATHERSTRIP MFG, INC.  
10111 HOUSTON OAKS DRIVE  
HOUSTON, TX 77064

PH: (713) 869-6466  
FAX: (713) 861-2909  
www.hoelscherweatherstrip.com

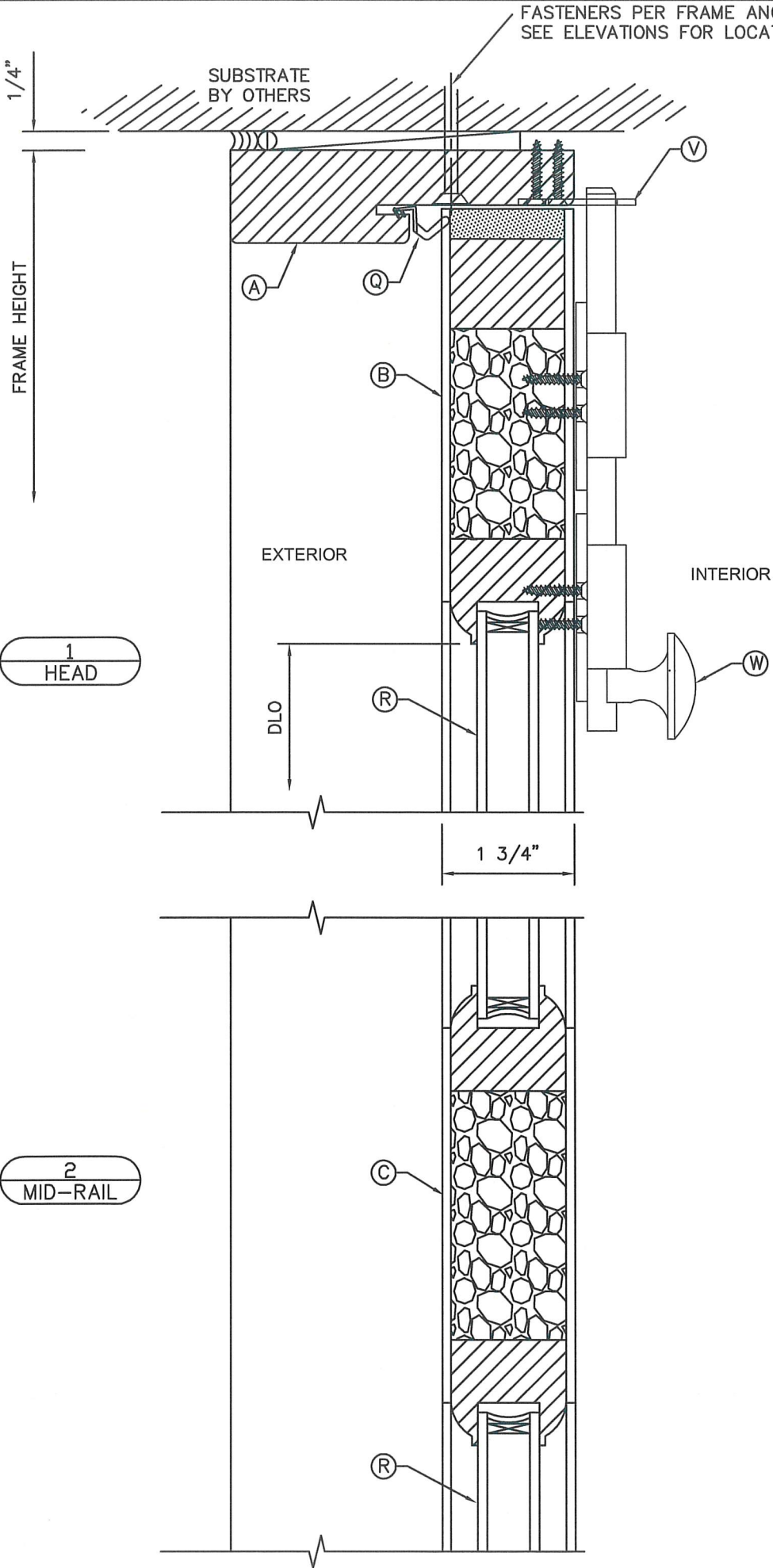
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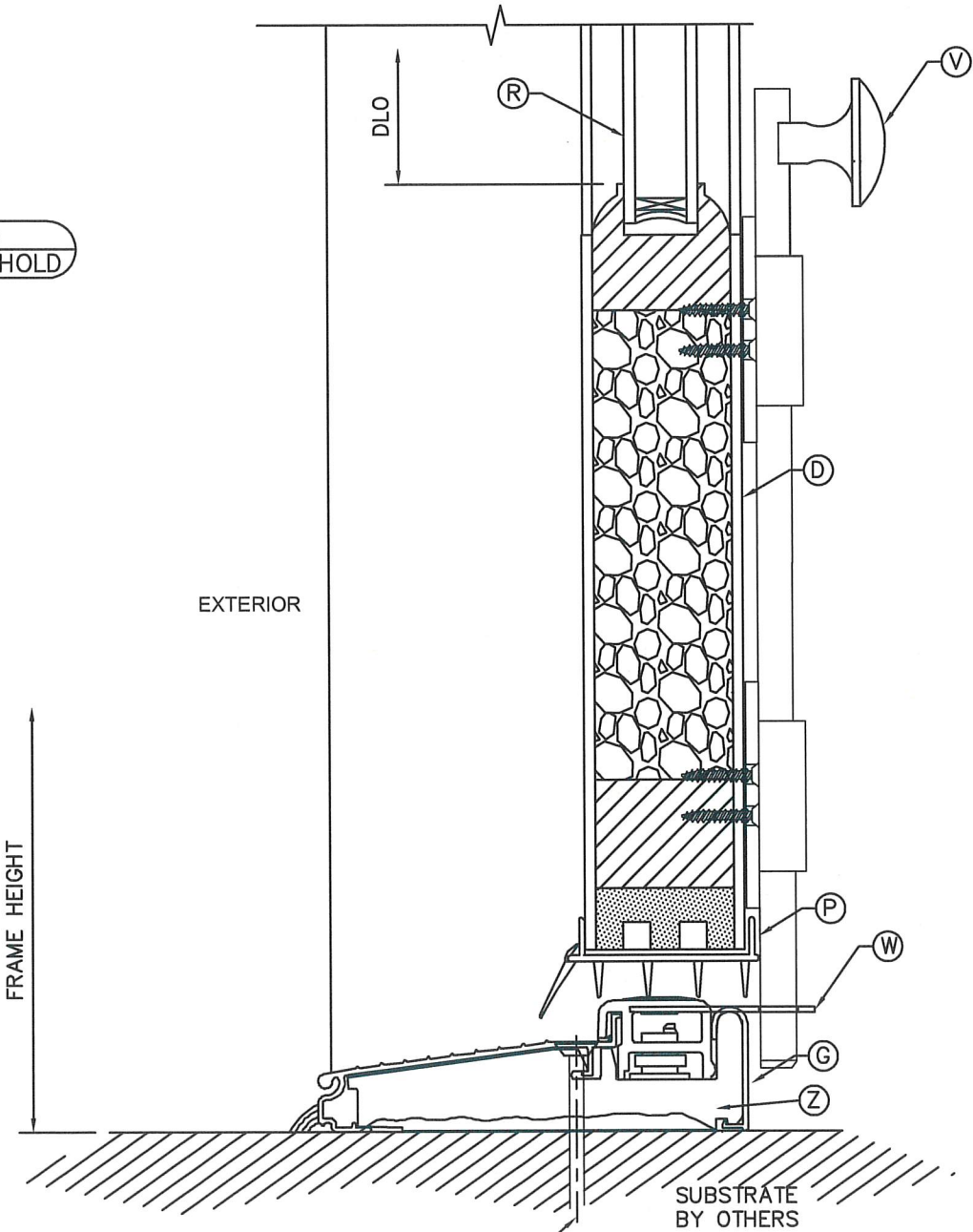
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| FRAME ANCHOR CHART                                            |                                                    |                 |                     |
|---------------------------------------------------------------|----------------------------------------------------|-----------------|---------------------|
| SUBSTRATE                                                     | FASTENER TYPE                                      | EMBEDMENT (MIN) | EDGE DISTANCE (MIN) |
| WOOD - 2x MIN.<br>(S.G.=0.55,E=1.3x10 <sup>6</sup> psi (MIN)) | #10 x 2 1/2" WOOD SCREW                            | 1 3/8"          | 3/4"                |
| CONCRETE<br>(3000 psi MIN)                                    | 3/16" DIA. TAPCON<br>(DIRECT OR THRU 1x WOOD BUCK) | 1 1/4"          | 1 7/8"              |
| GROUT-FILLED CMU<br>(ASTM C90 MIN)                            | 3/16" DIA. TAPCON<br>(DIRECT OR THRU 1x WOOD BUCK) | 1 1/4"          | 2"                  |
| STEEL/ALUMINUM<br>(1/8" MIN. THICKNESS)                       | #10 F-TYPE THREAD CUTTING SCREW                    | FULL            | 1/2"                |

- FASTENER NOTES:
- FASTENERS AT HINGE LOCATIONS ARE ANCHORED THRU THE HINGE, REPLACING ONE OF THE STANDARD HINGE SCREWS.
  - ALL ANCHORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE CHEMICALS IN THE WOOD.
  - DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GALVANIC REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23.
  - NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. Cd=1.6 WAS USED FOR WOOD SCREWS ONLY.



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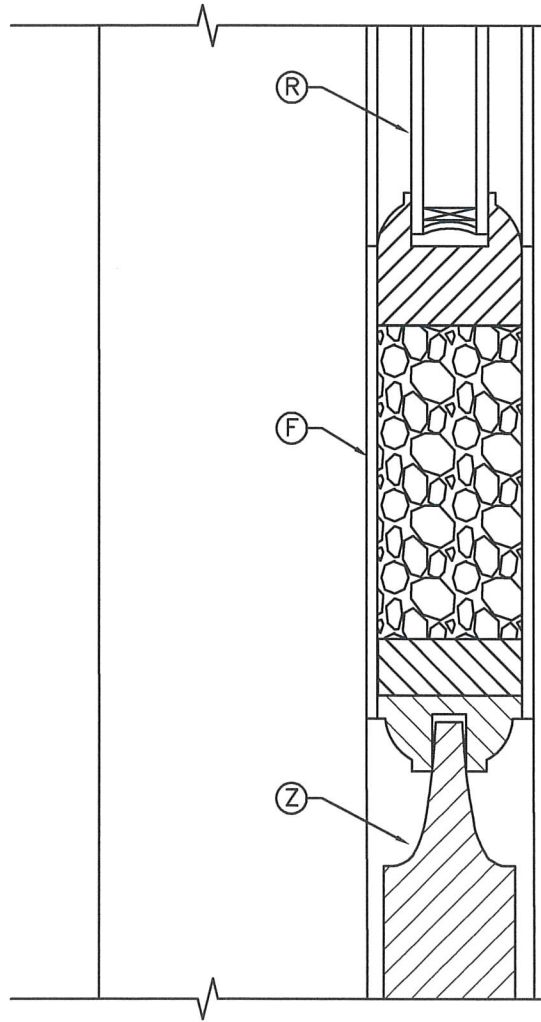
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FL PE# 62354

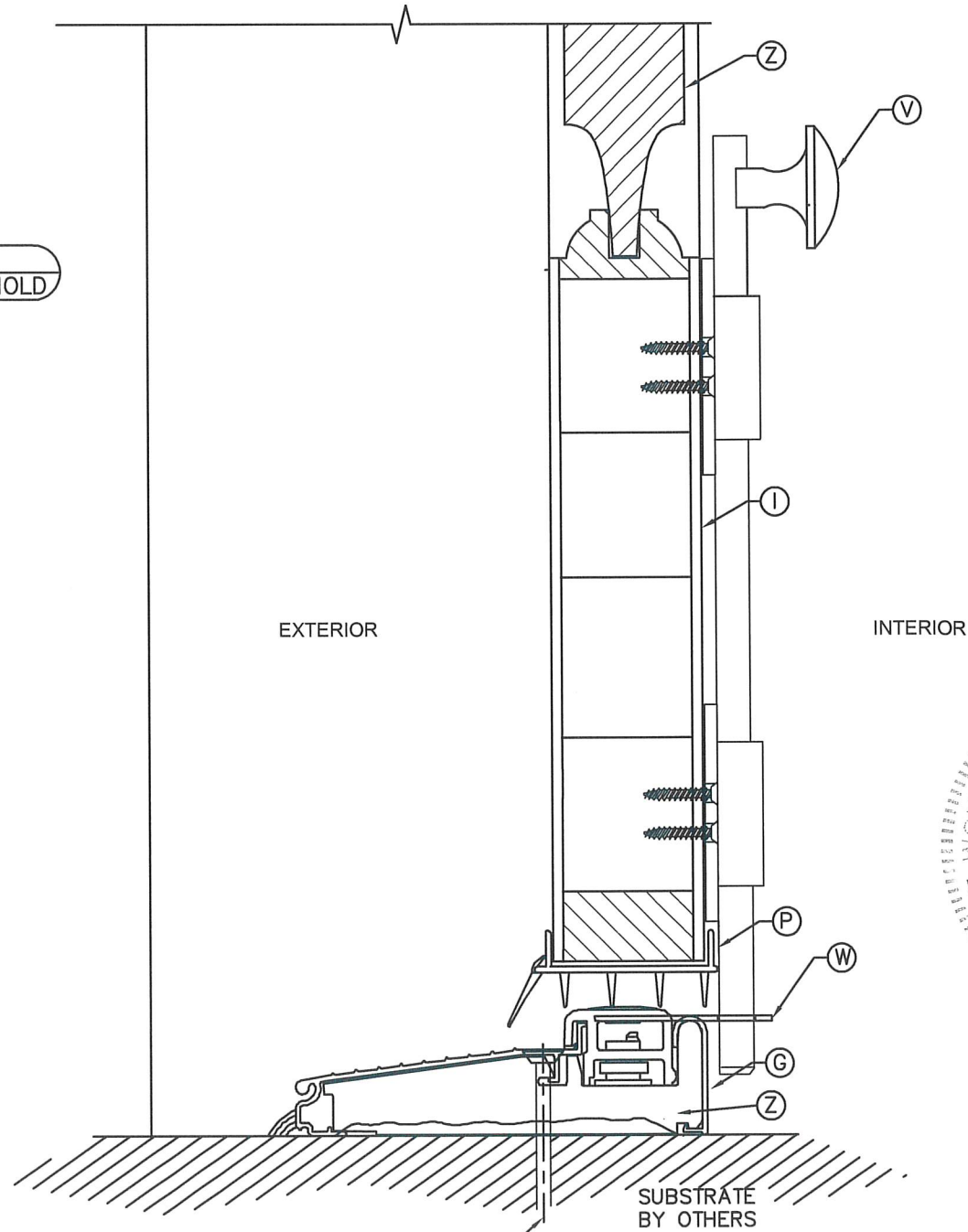
WOLTERS ENGINEERING  
(COAF# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX: (561) 225-1882

DWG: HWMF-2  
SHEET: 2/5

4  
MID-RAIL



5  
THRESHOLD



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SCOTT WOLTERS  
FL PER# 62354

WOLTERS ENGINEERING  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX: (561) 225-1982

DWG: HWMF-2  
SHEET: 3/5

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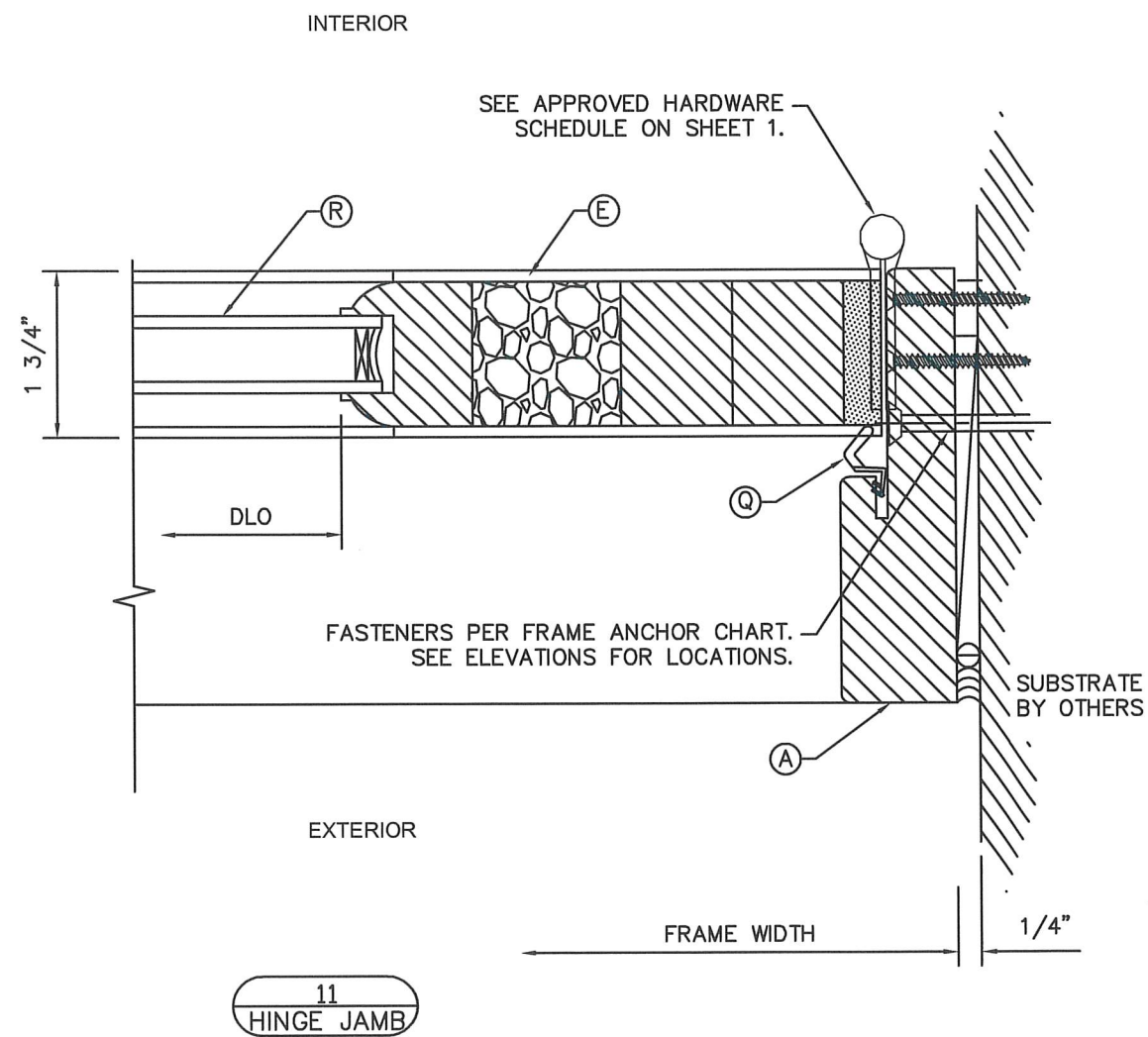
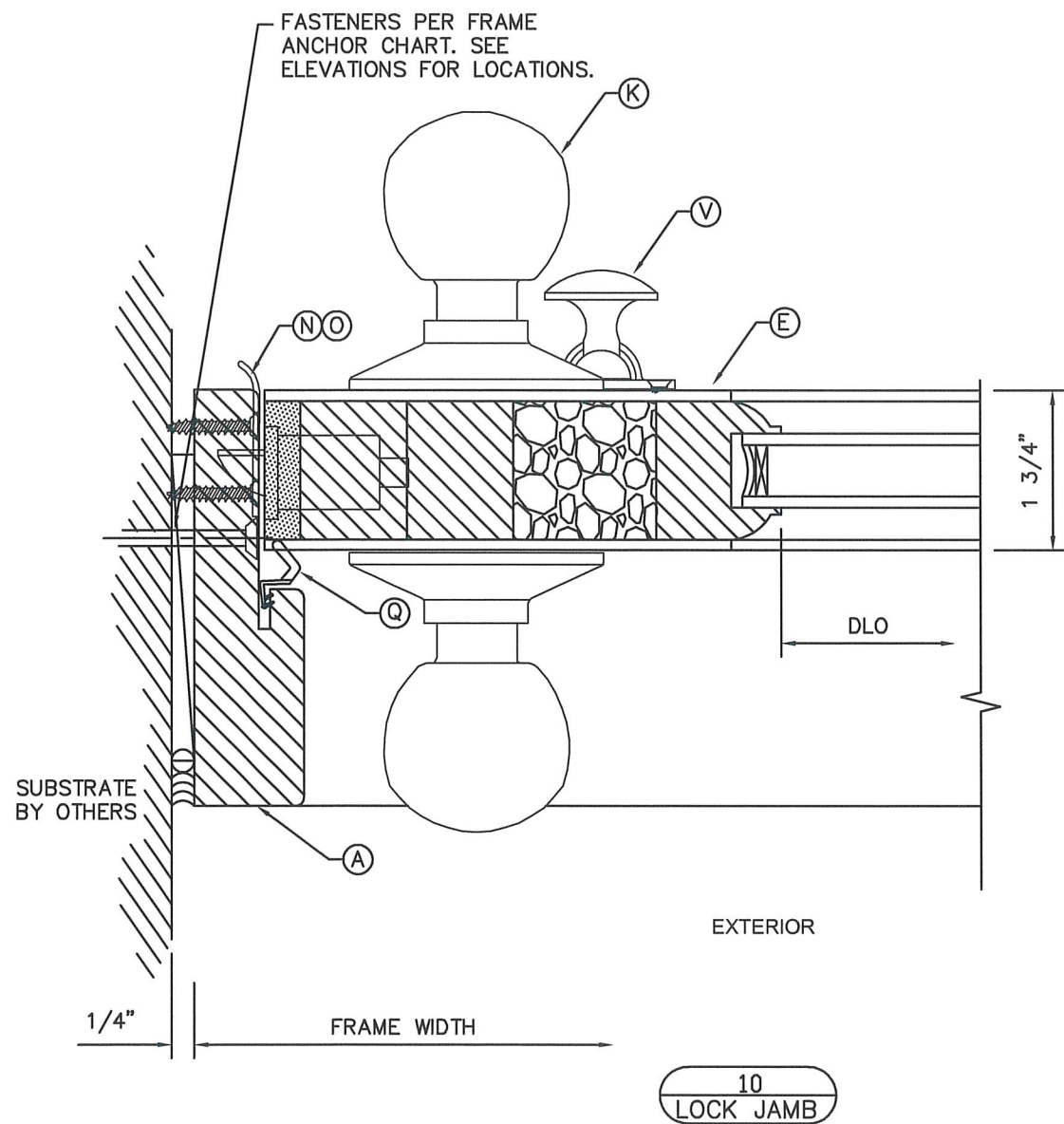
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# SINGLE FIBERGLASS GLAZED DOOR (NON-IMPACT)

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10111 HOUSTON OAKS DRIVE  
HOUSTON, TX 77064

PH: (713) 869-6466

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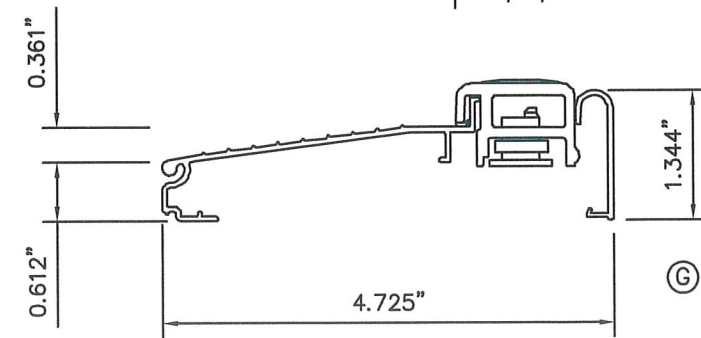
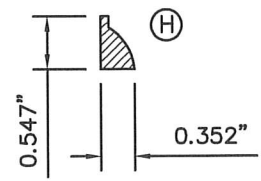
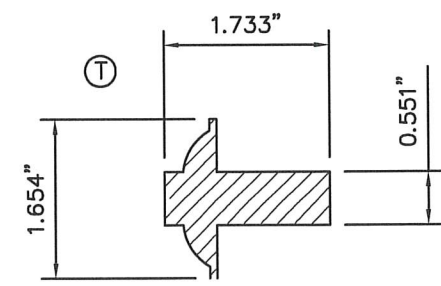
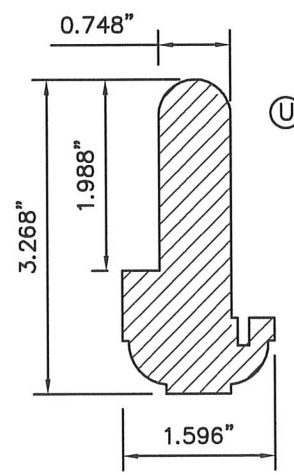
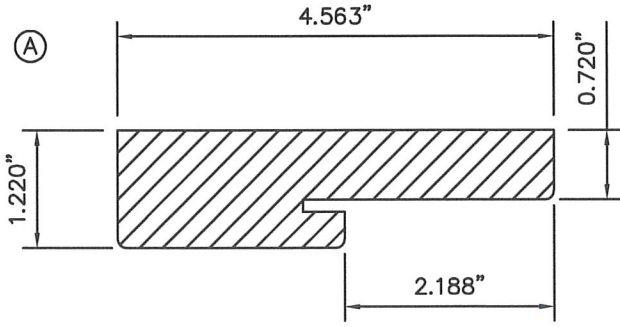
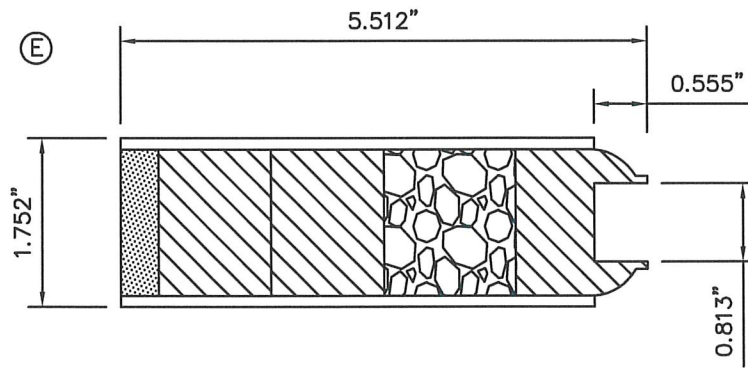
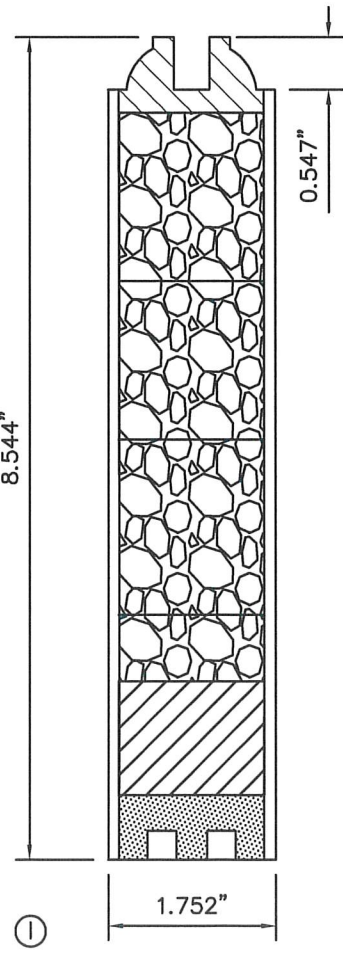
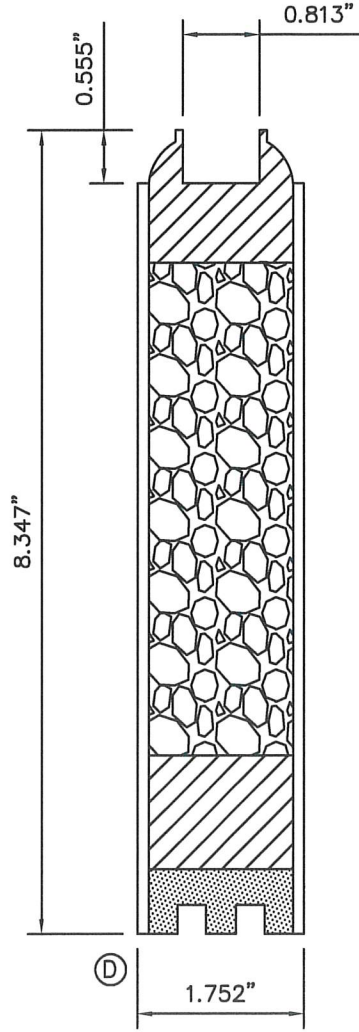
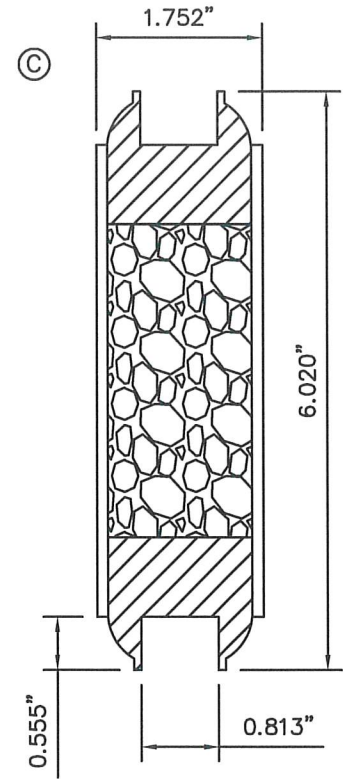
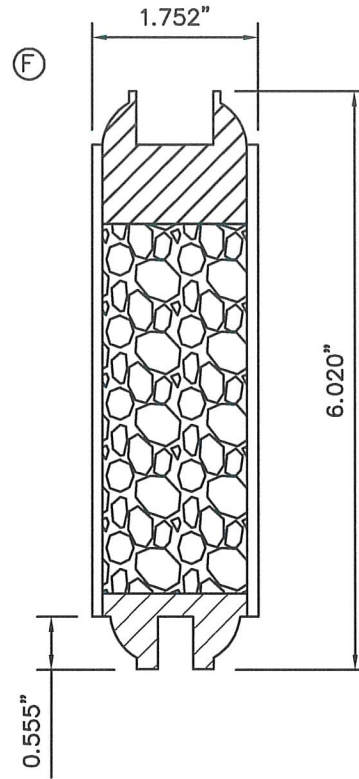
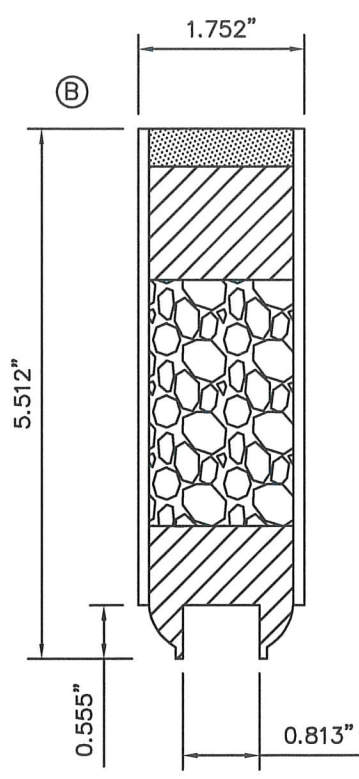
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WEST PALM BEACH, FL 33412  
PH/FAX: (561) 225-1982

DWG: **HWMF-2**  
SHEET: **4/5**

|                   |      |         |
|-------------------|------|---------|
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| -                 | -    | -       |
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| BILL OF MATERIALS |                         |                                       |                 |                                             |
|-------------------|-------------------------|---------------------------------------|-----------------|---------------------------------------------|
| MARK              | PART DESCRIPTION        | MATERIAL                              | MANUFACTURER    | NOTES                                       |
| A                 | FRAME HEAD/JAMB         | MAHOGANY OR KNOTTY ALDER              | HOELSCHER       | S.G.=0.47, E=1.38x10 <sup>6</sup> psi (MIN) |
| B                 | TOP RAIL                | FIBERGLASS COMPOSITE RAIL             | HOELSCHER       | SEE NOTES BELOW                             |
| C                 | MID-RAIL                | FIBERGLASS COMPOSIT RAIL              | HOELSCHER       | SEE NOTES BELOW                             |
| D                 | BOTTOM RAIL             | FIBERGLASS COMPOSIT RAIL              | HOELSCHER       | SEE NOTES BELOW                             |
| E                 | STILE                   | FIBERGLASS COMPOSITE STILE            | HOELSCHER       | SEE NOTES BELOW                             |
| F                 | STILE                   | FIBERGLASS COMPOSITE STILE            | HOELSCHER       | SEE NOTES BELOW                             |
| G                 | THRESHOLD               | ALUMINUM                              |                 |                                             |
| H                 | GLAZING ADAPTOR         | MAHOGANY OR KNOTTY ALDER              | HOELSCHER       | S.G.=0.47, E=1.38x10 <sup>6</sup> psi (MIN) |
| I                 | BOTTOM RAIL             | FIBERGLASS COMPOSIT RAIL              | HOELSCHER       | SEE NOTES BELOW                             |
| J                 | HINGE                   | STEEL                                 | SGS HARDWARE    | SEE HARDWARE SCHEDULE                       |
| K                 | LOCK                    | STEEL                                 | SCHLAGE/KWIKSET | SEE HARDWARE SCHEDULE                       |
| L                 | SECURITY PLATE          | STEEL                                 | ENDURA          | SEE HARDWARE SCHEDULE                       |
| N                 | LOCK STRIKE             | STEEL                                 | SCHLAGE/KWIKSET | SEE HARDWARE SCHEDULE                       |
| O                 | LATCH STRIKE            | STEEL                                 | SCHLAGE/KWIKSET | SEE HARDWARE SCHEDULE                       |
| P                 | BOTTOM DOOR WEATHERING  | NEOPRENE                              |                 |                                             |
| Q                 | WEATHERSTRIP            | NEOPRENE                              | MD PLASTIC      |                                             |
| R                 | 13/16" INSULATED GLASS  | 1/8" TEMPERED LITES WITH BUTYL SPACER | CARDINAL IG     |                                             |
| T                 | MUTIN                   | MAHOGANY OR KNOTTY ALDER              | HOELSCHER       | S.G.=0.47, E=1.38x10 <sup>6</sup> psi (MIN) |
| U                 | ASTRAGAL                | MAHOGANY OR KNOTTY ALDER              | HOELSCHER       | S.G.=0.47, E=1.38x10 <sup>6</sup> psi (MIN) |
| V                 | SURFACE BOLT            | STEEL                                 | DELTANA         | SEE HARDWARE SCHEDULE                       |
| W                 | SURF. BOLT STRIKE PLATE | STEEL                                 | DELTANA         | SEE HARDWARE SCHEDULE                       |
| X                 | FLUSH BOLT              | STEEL                                 | CAL-ROYAL       | SEE HARDWARE SCHEDULE                       |
| Y                 | FLUSH BOLT STRIKE PLATE | STEEL                                 | CAL-ROYAL       | SEE HARDWARE SCHEDULE                       |
| Z                 | RAISED FIBERGLASS PANEL | FIBERGLASS COMPOSITE PANEL            | HOELSCHER       | SEE NOTES BELOW                             |

DOOR STILE AND RAIL CONSTRUCTION:

SKINS - 2mm FIBERGLASS SHEET MOLDING COMPOUND (DENSITY = 118.6 lb/ft<sup>3</sup> (±1.25))

SKINS ARE GLUED OVER:  
CORE - POLYURETHANE (DENSITY = 2.5 lb/ft<sup>3</sup>)  
STIFFENERS - 1 3/4"x1 3/16" LVL (S.G.= 0.50 min)  
EDGE STRIP - 1 3/4"x1/2" PVC (DENSITY = 50 lb/ft<sup>3</sup>)

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