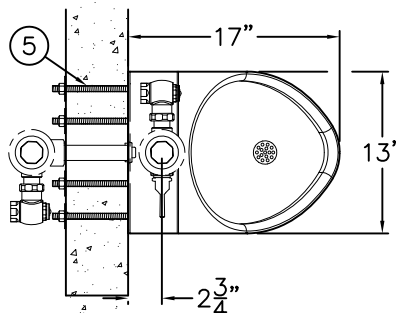
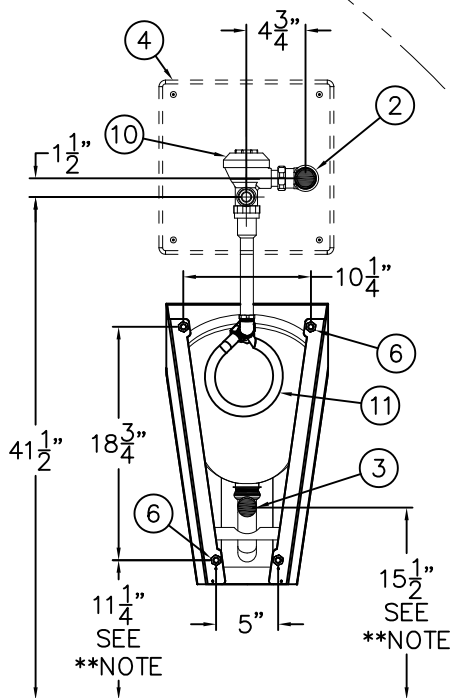
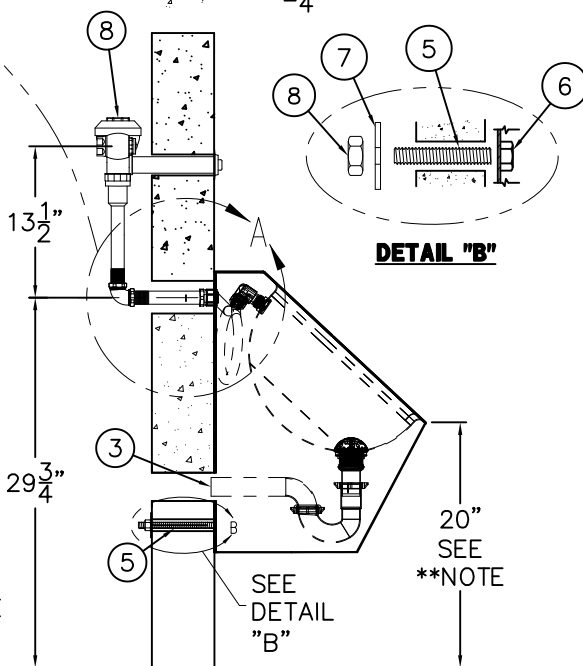
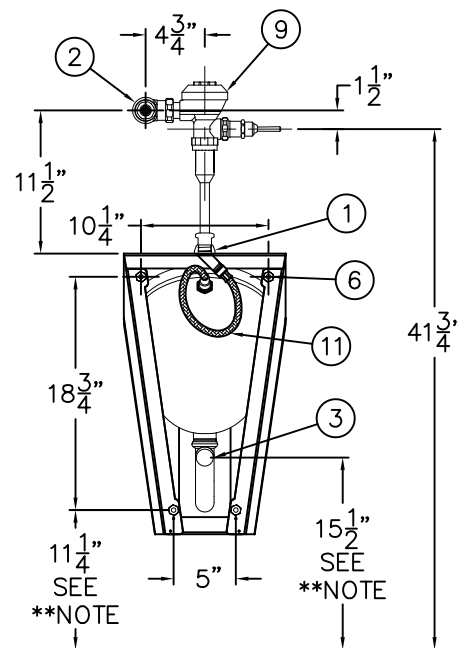
**DETAIL "A"****REFERENCE DRAWING**

|                                         |              |
|-----------------------------------------|--------------|
| FLUSH VALVE ACCESS PANEL MODEL NO. 2898 | 9908-399-001 |
| WALL SLEEVE -W                          | 9925-248-001 |
| WALL SLEEVE -T                          | 9925-249-001 |
| WASTE ASSEMBLY                          | 9985-103-001 |

**NOTE: USE ONLY APPROPRIATE UPC/dUPC CERTIFIED FLUSH VALVE FOR THE INSTALLATION OF THIS URINAL.**

**-W WALL SUPPLY REAR VIEW****-W WALL SUPPLY SIDE VIEW****-T TOP SUPPLY REAR VIEW****INSTALLATION INSTRUCTIONS:****A- ROUGH-IN FOR THE FOLLOWING:**

- 3/4" NPT FLUSHING INLET (1). (MALE ADAPTER WITH 16" CORRUGATED HOSE PROVIDED FOR -W WALL SUPPLY MODELS, DETAIL "A").
- 3/4" NPT FLUSH VALVE INLET (2) WHEN -FV FLUSH VALVE IS PROVIDED.
- WASTE OUTLET 1-1/2" PLAIN END (3).

**B- FOR DURA-WARE FLUSH VALVE ACCESS PANELS (4), FOR CONCEALED FLUSH VALVE INSTALLATION REFER TO DRAWING #9908-399-001.****C- FASTEN 1/2"-13 UNC ALL-THREAD STUDS (5) PROVIDED, TO FIXTURE MOUNTING POINTS (6) AND SLIDE STUDS (5) THRU WALL OPENINGS. NOTE: STUDS MUST HAVE A 1/2" ENGAGEMENT MIN.****D- FROM CHASE SIDE SECURE FIXTURE USING WASHERS (7) & NUTS (8) PROVIDED.****E- MAKE UP WASTE CONNECTION (3).****F- FOR OPTIONAL -FV FLUSH VALVE:**

CONNECT FLUSH VALVE AS REQUIRED FOR EXPOSED

(9) OR CONCEALED (10) INSTALLATION PER MANUFACTURERS' RECOMMENDATIONS. -W WALL SUPPLY FLUSH VALVE, ACCESS FOR CONNECTION AND SERVICING FLUSH VALVE IS REQUIRED.

**G- FOR -W WALL SUPPLY** CONNECT CORRUGATED HOSE (11) TO FLUSH VALVE THROUGH-WALL INLET (12) USING 3/4" MALE ADAPTER (13) PROVIDED. ASSEMBLE 18" SUPPLY CORRUGATED HOSE (11) TO URINAL FLUSH INLET ELBOW (14). ENSURE CONNECTIONS ARE WATERTIGHT.**NOTE:**

FOR SUFFIX OPTION -ADA UNITS, REFER TO ADA ACCESSIBILITY GUIDELINES FOR COMPLETE INSTALLATION REQUIREMENTS. ALL VERTICAL DIMENSIONS INDICATED \*\*DECREASE PROPORTIONATELY WITH ADA RIM HEIGHT: FOR ADA RIM HEIGHT OF 17", WASTE OUTLET BECOMES 12-1/2" AFF.

1-ADA FLUSH VALVE MUST BE HYDRAULICALLY ACTUATED OR SUPPLIED WITH A SPECIAL HANDLE. MAXIMUM CONTROL HEIGHT IS 44" ABOVE FINISHED FLOOR.

2-ADA REQUIRES A RIM HEIGHT OF 17" MAXIMUM AFF.



**ACORN ENGINEERING COMPANY**  
P.O. BOX 3527 INDUSTRY, CA. 91744  
(626) 336-4561 FAX (626) 961-2200

TITLE

**PENAL-WARE URINAL REAR MOUNT, 1709HEU, 1709FG, LR1709FG-T/-W**

MANUFACTURE DATE

**NOVEMBER 2011**  
**TO PRESENT**

DATE ISSUED

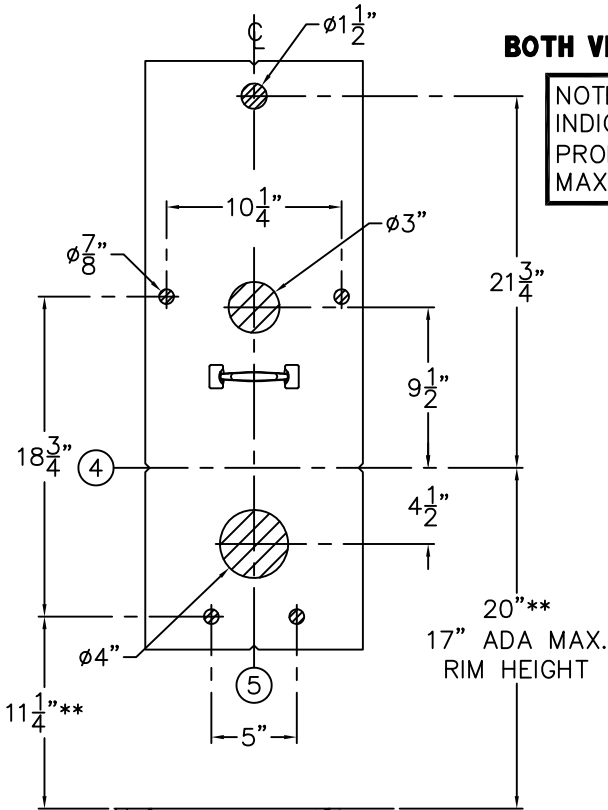
**11/17/11**

DATE REVISED

**07/16/25 H**

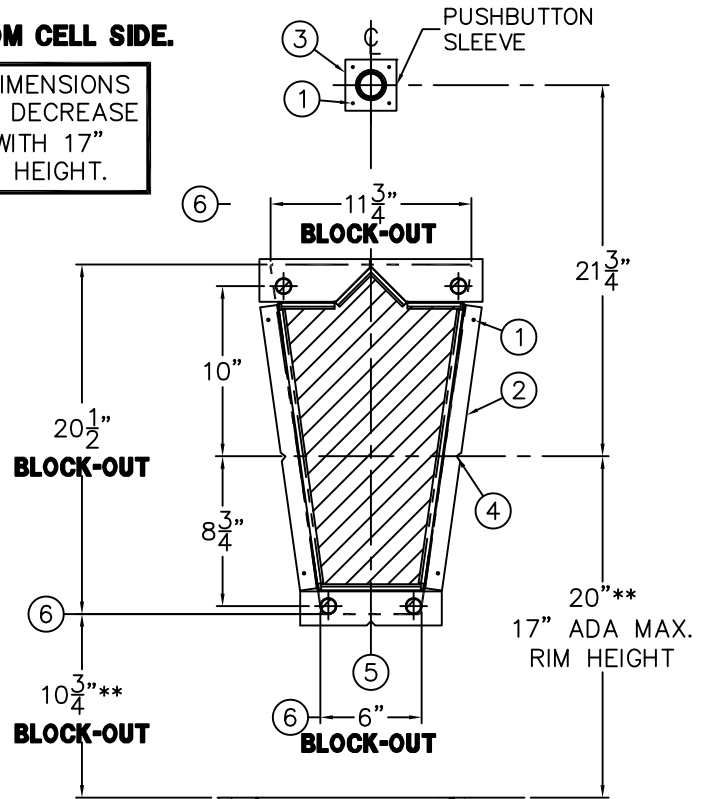
DRAWING NUMBER

**9925-075-001**



**BOTH VIEWS ARE FROM CELL SIDE.**

NOTE: VERTICAL DIMENSIONS INDICATED \*\* WILL DECREASE PROPRIONATELY WITH 17" MAXIMUM ADA RIM HEIGHT.



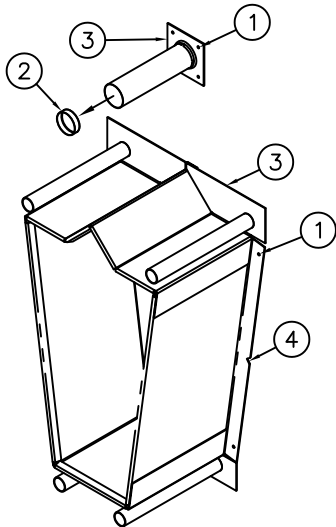
SHADED AREAS ARE REQUIRED WALL OPENINGS



### SW WALL SLEEVE

SLEEVES ARE INSTALLED IN FORMS USING NAIL HOLES PROVIDED ① OR GROUTED INTO BLOCK WALLS BECOMING A PERMANENT PART OF THE WALL.

NOTE: FOR POURED WALL CONSTRUCTION, TEMPORARY BRACING SHOULD BE INSTALLED WITHIN OPENING TO PREVENT DEFORMATION TO SLEEVE WHICH MAY OCCUR DURING POUR. DO NOT POUR DIRECTLY ON TOP OF WALL SLEEVE. THE PUSHBUTTON SLEEVE IS CAPPED; THIS CAP ② MUST BE REMOVED FROM THE CHASE SIDE OF THE WALL SLEEVE BEFORE INSTALLING FLUSH VALVE PUSHBUTTON.



- INSTALL SLEEVE WITH FLANGE ③ ON CHASE SIDE OF WALL.
- LOCATE SIDE NOTCHES ④ AT DIMENSION SHOWN MEASURED FROM FINISHED FLOOR ON CELL SIDE. SIDE NOTCHES INDICATE FLOOD RIM HEIGHT OF URINAL.
- LOCATE VERTICAL OR TOP & BOTTOM NOTCHES ⑤ INDICATE CENTERLINE OF SLEEVE AND FIXTURE HOUSING.
- USE BLOCK-OUT DIMENSIONS SHOWN ⑥ WHEN SLEEVES ARE NOT AVAILABLE.

### MT METAL TEMPLATES

- METAL TEMPLATES ARE USED TO LAYOUT REQUIRED WALL OPENINGS FOR SUBSEQUENT FLAME CUTTING OR CORE DRILLING.
- MEASURE FROM FINISHED FLOOR ON CELL SIDE, AND STRIKE A HORIZONTAL CHALK LINE ④ ON THE WALL AT DIMENSIONS SHOWN FOR SIDE NOTCHES, INDICATING TOILET SEAT HEIGHT ABOVE FINISHED FLOOR ON CELL SIDE.
- STRIKE A VERTICAL CHALK LINE ⑤ AT DIMENSIONS SHOWN FOR VERTICAL NOTCHES INDICATING CENTERLINE OF SLEEVE AND FIXTURE HOUSING.
- PLACE TEMPLATE AGAINST WALL ALIGNING VERTICAL AND HORIZONTAL NOTCHES AND MARK REQUIRED WALL OPENINGS.



ACORN ENGINEERING COMPANY  
P.O. BOX 3527 Industry, CA 91744  
15125 Proctor Ave Industry, CA 91746  
(626) 336-4561 FAX (626) 961-2200

TITLE **-SW SLEEVE & -MT TEMPLATE 1709HEU-W, 1709FG-W & LR1709-W URINAL**

MANUFACTURE DATE

**NOVEMBER 2011  
TO PRESENT**

DATE ISSUED

**12/13/11**

DATE REVISED

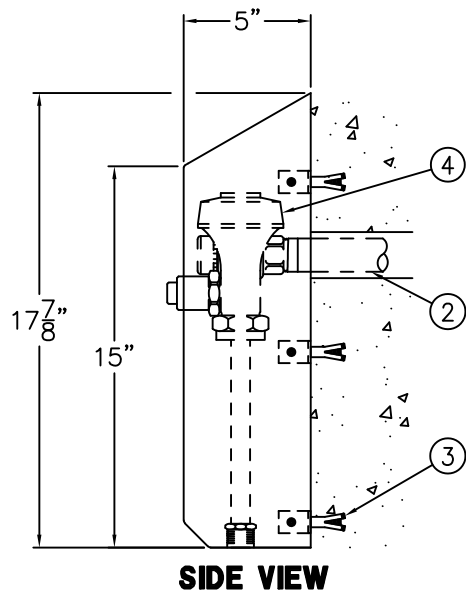
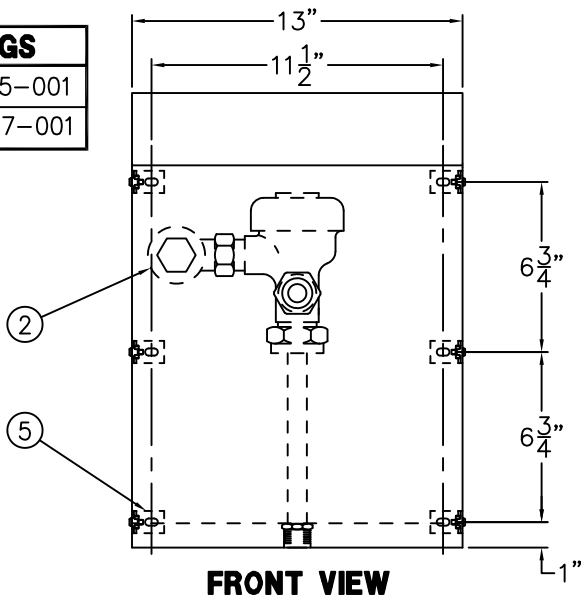
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DRAWING NUMBER

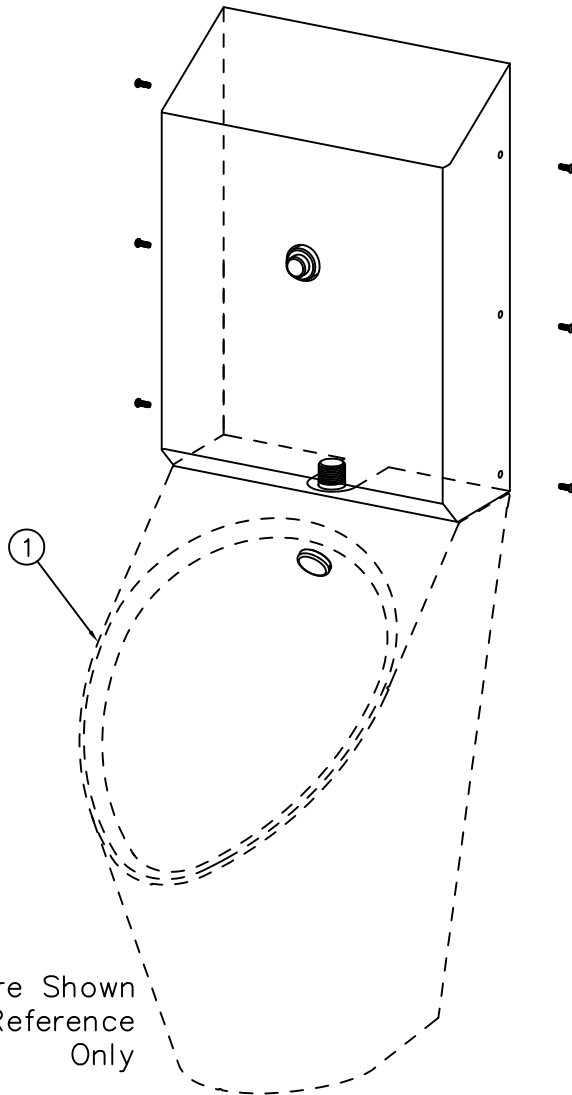
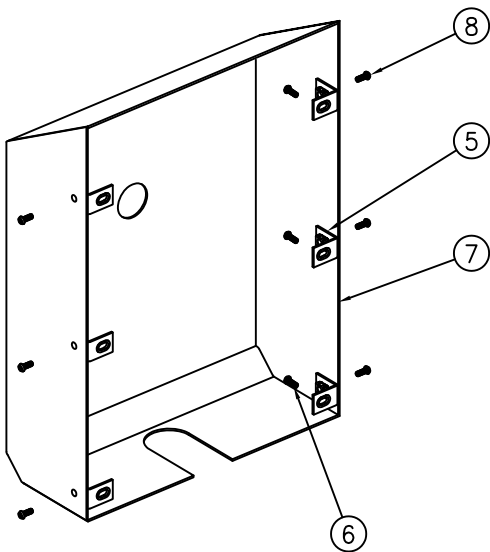
**9925-248-001**



| REFERENCE DRAWINGS |              |
|--------------------|--------------|
| SECURITY SCREWS    | 9951-005-001 |
| TINNERMAN NUTS     | 9908-007-001 |



**NOTE:**  
FLUSH VALVE COVER  
FOR MODELS 2158-T  
& 1709HEU ONLY



**INSTALLATION INSTRUCTIONS:**

- A- MOUNT FIXTURE ① TO WALL.
- B- ROUGH-IN FOR FLUSH VALVE SUPPLY ② REFER TO FIXTURE INSTALLATION INSTRUCTIONS.
- C- LOCATE AND INSTALL WALL ANCHORS (BY OTHERS) ③.
- D- INSTALL FLUSH VALVE ④ TO FIXTURE ①.
- E- ATTACH MOUNTING CLIPS ⑤ TO WALL USING MOUNTING SCREWS ⑥ (BY OTHERS).
- F- ATTACH FLUSH VALVE COVER ⑦ TO MOUNTING CLIPS ⑤ USING #10-32 SCREWS ⑧ PROVIDED.

|                                                                                                                                                                                                                                 |                                                                                            |                                           |                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------|
| <br><b>MORRIS GROUP INTL</b><br>P.O. BOX 3527 Industry, CA 91744<br>15125 Proctor Ave Industry, CA 91746<br>(626) 336-4561 FAX (626) 961-2200 | <b>TITLE</b><br><b>SLOPING TOP FLUSH VALVE COVER *2802-SLPT (MODEL *2158/1709HEU ONLY)</b> |                                           |                                                  |
|                                                                                                                                                                                                                                 | <b>MANUFACTURE DATE</b><br><br><b>FEBRUARY 1975</b><br><br><b>TO PRESENT</b>               | <b>DATE ISSUED</b><br><br><b>04/15/13</b> | <b>DRAWING NUMBER</b><br><br><b>9908-393-001</b> |
|                                                                                                                                                                                                                                 |                                                                                            | <b>DATE REVISED</b>                       |                                                  |
|                                                                                                                                                                                                                                 |                                                                                            |                                           |                                                  |