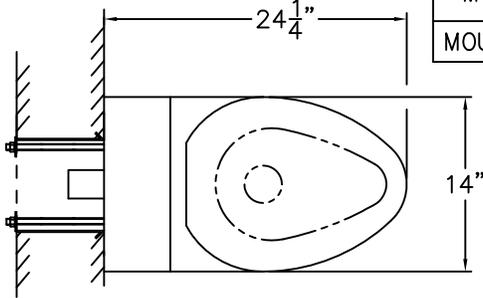




REFERENCE DRAWINGS		
-SW WALL SLEEVE /	-W WALL SUPPLY	9925-230-001
-MT METAL TEMPLATE	-T TOP SUPPLY	9925-231-001
MOUNTING HARDWARE		9957-900-001

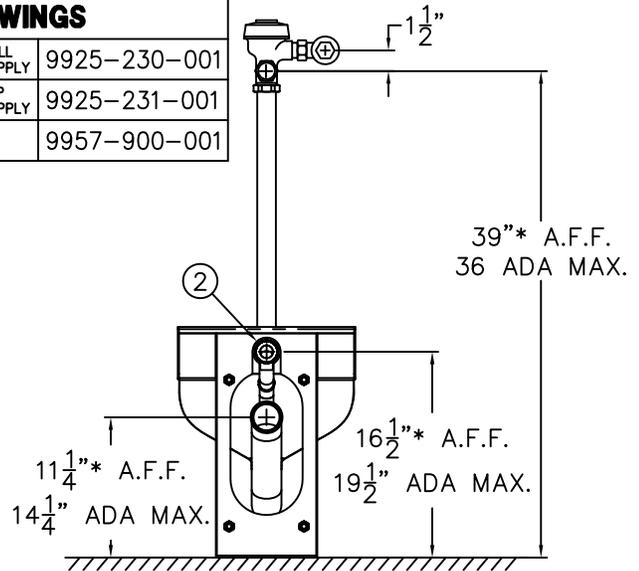


TOP VIEW

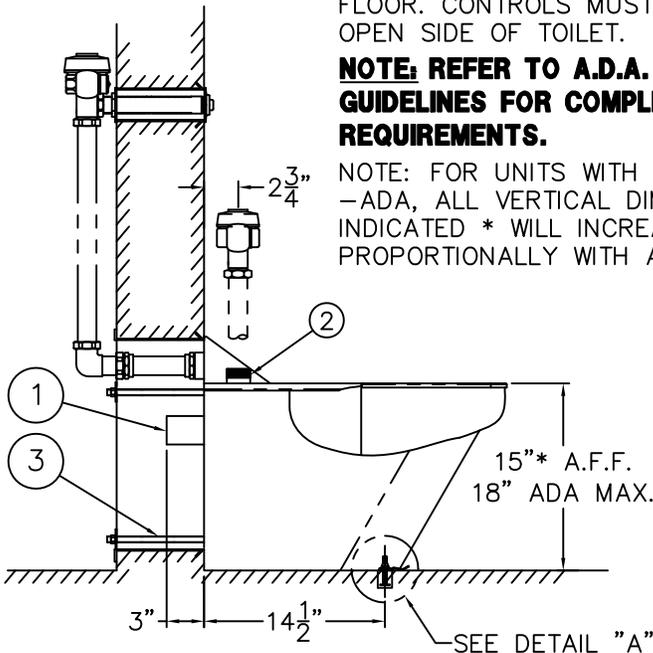
**FOR -ADA MODELS** -FLUSH VALVE MUST BE HYDRAULICALLY ACTUATED OR SUPPLIED WITH A SPECIAL HANDLE. MAX. CONTROL HEIGHT IS 36" ABOVE FINISHED FLOOR. CONTROLS MUST BE LOCATED ON OPEN SIDE OF TOILET.

**NOTE: REFER TO A.D.A. ACCESSIBILITY GUIDELINES FOR COMPLETE INSTALLATION REQUIREMENTS.**

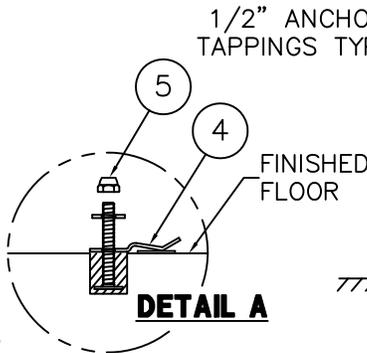
NOTE: FOR UNITS WITH SUFFIX OPTION -ADA, ALL VERTICAL DIMENSIONS INDICATED \* WILL INCREASE PROPORTIONALLY WITH ADA SEAT HEIGHT.



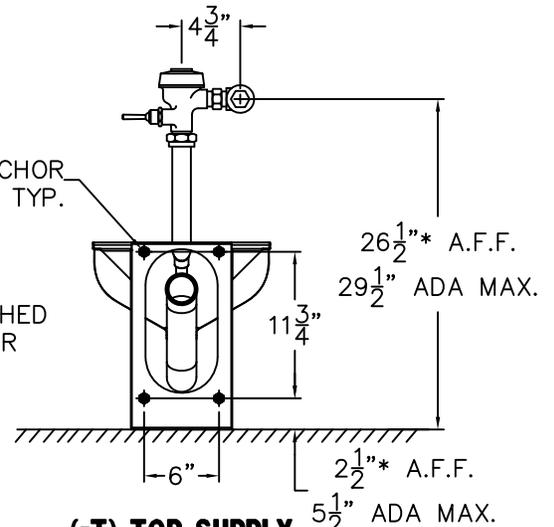
**(-W) WALL SUPPLY REAR VIEW**



**SIDE VIEW**



**DETAIL A**



**(-T) TOP SUPPLY REAR VIEW**

**INSTALLATION INSTRUCTIONS:**

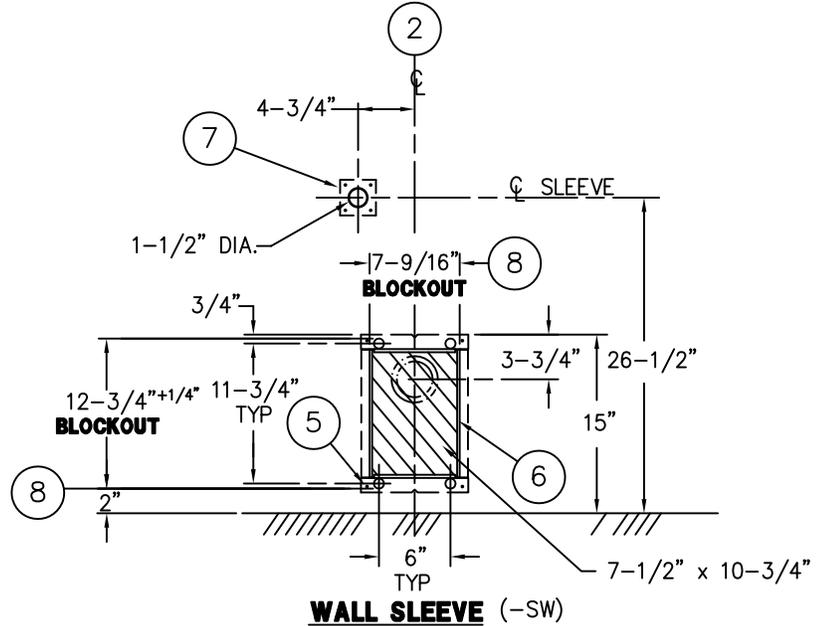
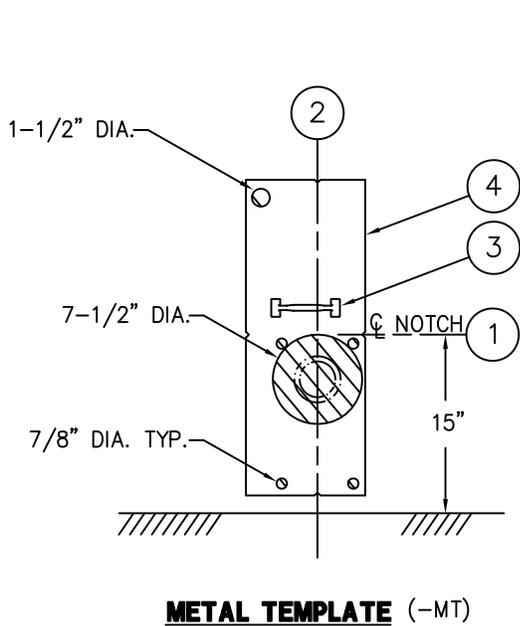
- A- SEE REFERENCE DRAWING BOX FOR WALL SLEEVE INSTALLATION INSTRUCTIONS (SUFFIX OPTION -SW).
- B- ROUGH-IN PLUMBING FOR THE FOLLOWING CONNECTIONS:
  - TOILET WALL WASTE OUTLET 2-3/8" O.D. PLAIN END ①.
  - SUFFIX OPTION -W03 3" O.D. PLAIN END WASTE ①.
  - FLUSHING INLET CONNECTION 1-1/2" NPT ②.
- C- INSTALL 1/2"-13 ALL THREAD STUDS ③ INTO ANCHOR TAPPINGS AT REAR OF FIXTURE. STUDS MUST HAVE A MINIMUM 1/2" ENGAGEMENT.

- D- ATTACH CONCEALED FLOOR ANCHORS ④ WITH T-BOLT ASSEMBLY ⑤ PROVIDED. SEE DETAIL "A".
- E- PLACE TOILET UP AGAINST CELL WALL, SLIDING THE STUDS THROUGH WALL SLEEVE OPENINGS AND ENGAGING WITH CONCEALED FLOOR ANCHORS ④.
- F- PLACE WASHERS AND NUTS ONTO STUDS ③; TIGHTEN TO 60FT/LBS.
- G- FLUSH SUPPLY LINE. MAKE-UP WASTE CONNECTION AND MOUNT FLUSH VALVE PER MANUFACTURERS' RECOMMENDATIONS.

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	<b>TITLE</b> LIGATURE-RESISTANT BLOWOUT JET TOILET, LR1685 / LR1685-ADA -W/T		
	<b>MANUFACTURE DATE</b> JULY 2017 TO PRESENT	<b>DATE ISSUED</b> 07/31/17 <hr/> <b>DATE REVISED</b>	<b>DRAWING NUMBER</b> 9925-176-001



**BOTH VIEWS ARE FROM CELL SIDE**  
 SHADED AREAS ARE REQUIRED WALL OPENINGS



**NOTE: FOR SUFFIX OPTION -HC OR -A.D.A. UNITS:**  
 POSITION WALL SLEEVE WITH NOTCH FOR INTEGRAL SEAT AT HANDICAP DIMENSION -18" FOR A.D.A. MODELS. ALL VERTICAL DIMENSIONS CHANGE ACCORDING TO ADDITIONAL SEAT HEIGHT FOR HANDICAP. I.E. FOR 18" SEAT HEIGHT WASTE OUTLET BECOMES 14-1/4" FLUSHING INLET BECOMES 19-1/2".

**NOTE:**  
 ON POURED WALL CONSTRUCTION, THE PUSHBUTTON SLEEVE, ITEM ⑦ IS CAPPED. THIS CAP MUST BE REMOVED FROM THE CHASE SIDE OF THE WALL, BEFORE INSTALLING F.V. PUSHBUTTON.

**INSTALLATION INSTRUCTIONS**

**METAL TEMPLATES (-MT)**

TEMPLATES ARE USED TO LAYOUT REQUIRED WALL OPENINGS FOR SUBSEQUENT FLAME CUTTING OR CORE DRILLING.

- A- STRIKE A HORIZONTAL CHALKLINE ① ON THE WALL 15" ABOVE FINISHED FLOOR. THIS WILL LOCATE CENTERLINE FOR HORIZONTAL NOTCHES ON TEMPLATE. (WHEN USING -HC OPTION SEE NOTE ABOVE)
- B- STRIKE A VERTICAL CHALKLINE ② ON THE WALL TO INDICATE CENTERLINE OF FIXTURE. THIS WILL LOCATE FOR VERTICAL NOTCHES ON TEMPLATE.
- C- USING HANDLE ③ ON TEMPLATE ④, PLACE TEMPLATE AGAINST THE WALL, LOCATING NOTCHES AT CHALKLINES. MARK FOR WALL OPENINGS.

**WALL SLEEVES (-SW)**

SLEEVES ARE INSTALLED IN FORMS (USING NAIL HOLES ⑤ PROVIDED) OR GROUTED INTO BLOCK WALLS, BECOMING A PERMANENT PART OF THE WALL.

**NOTE:** FOR POURED WALL CONSTRUCTION, TEMPORARY BRACING SHOULD BE INSTALLED WITHIN SLEEVE OPENING TO PREVENT DEFORMATION TO SLEEVE WHICH MAY OCCUR DURING POUR. DO NOT POUR CONCRETE DIRECTLY ON TOP OF WALL SLEEVE.

- A- INSTALL SLEEVE WITH FLANGE ⑥ ON CHASE SIDE OF WALL.
- B- TOP AND BOTTOM NOTCHES TO BE LOCATED AT VERTICAL CENTERLINE ② OF SLEEVE.
- C- TOP OF FLANGE TO BE LOCATED AT 15" ABOVE THE FINISHED CELL SIDE FLOOR (INTEGRAL TOILET SEAT HEIGHT).
- D- SEPARATE SLEEVE ⑦ FOR FLUSH VALVE PUSHBUTTON TO BE LOCATED 26-1/2" ABOVE FINISHED CELL SIDE FLOOR.
- E- WHEN SLEEVES ARE NOT AVAILABLE USE BLOCKOUT DIMENSIONS SHOWN ⑧.

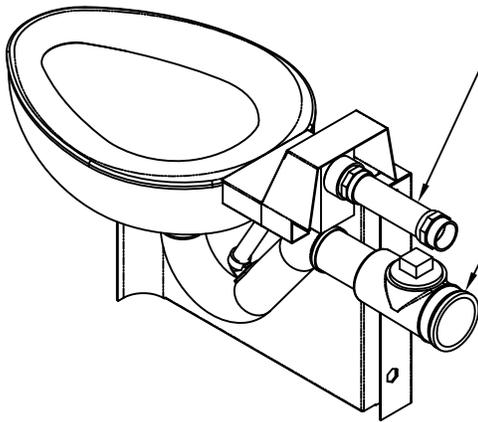
**ACORN ENGINEERING COMPANY**  
 P.O. BOX 3527 Industry, CA 91744  
 15125 Proctor Ave Industry, CA 91746  
 (626) 336-4561 FAX (626) 961-2200

TITLE **SLEEVES AND TEMPLATES (LR/1685-T & LR/1685-A.D.A.-T)**

MANUFACTURE DATE  
**FEB 1975**  
**TO PRESENT**

DATE ISSUED  
**3-1-90**  
 DATE REVISED  
**08-02-17 A**

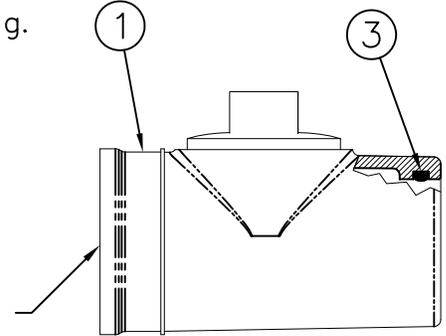
DRAWING NUMBER  
**9925-231-001**



Optional -FVT Flush Valve Thru Wall Connection. Shown For Reference.

Optional -CO1 Waste Fitting. Shown For Reference.

<b>REFERENCE DRAWING</b>	
WASTE CONNECTION WITH CLEANOUT -CO1	9985-125-002

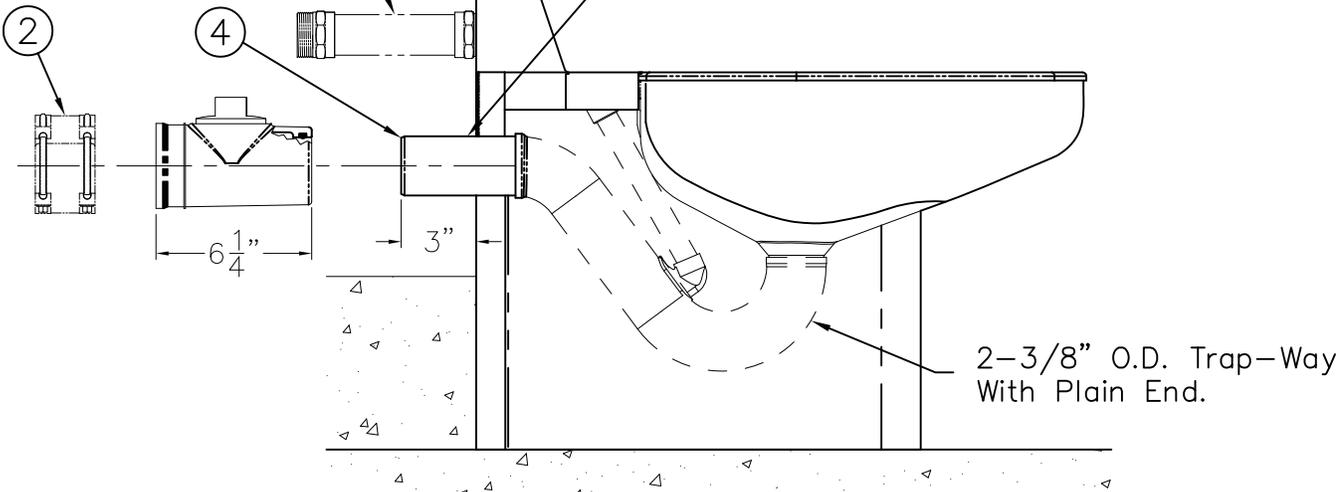


NOTE: Optional -CO1 Waste Fitting Available With 3" or 4" No-Hub

Scaled: X 2

Optional -FVT Flush Valve Thru Wall Connection Shown For Reference

Plain End Extends 3" Beyond Back Of Fixture. Optional Extended Waste Is Available -TWE



MODEL #1685 SHOWN FOR REFERENCE

**INSTALLATION INSTRUCTIONS**

A-INSERT O-RING ③ INTO GROOVE OF WASTE FITTING ①. LUBRICATE THE O-RING ③ WITH O-RING LUBRICANT.

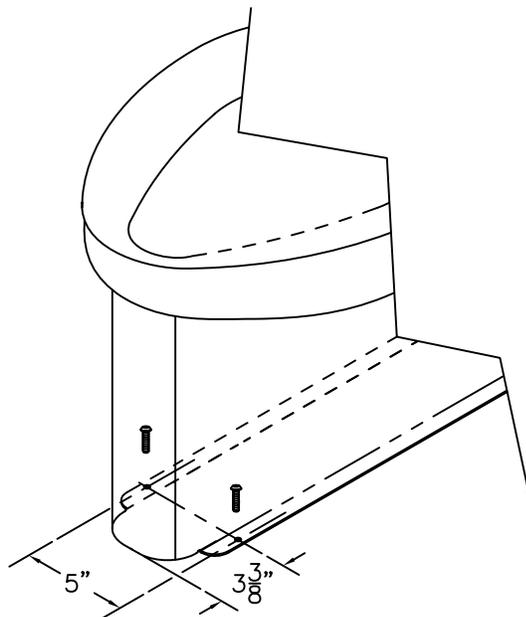
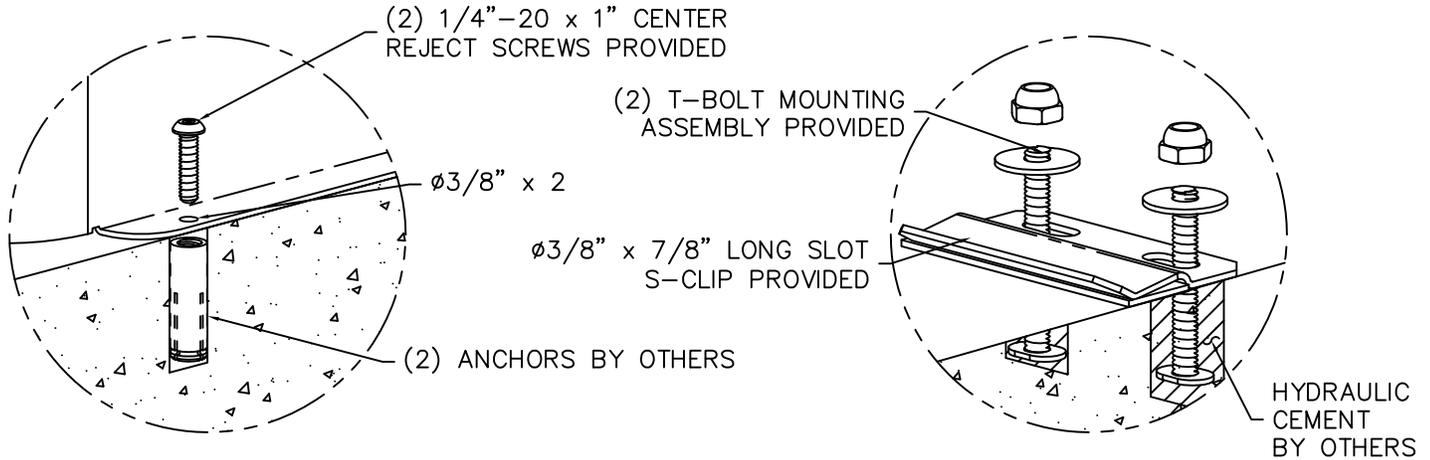
EXTENSION ④ IS 3" BEYOND BACK OF FIXTURE. LONGER WASTE EXTENSION IS AVAILABLE.

B-INSTALL WASTE FITTING ① TO FIXTURE P-TRAP WASTE EXTENSION ④. ENGAGEMENT IS APPROXIMATELY 1-1/4". NOTE: TOILET WASTE

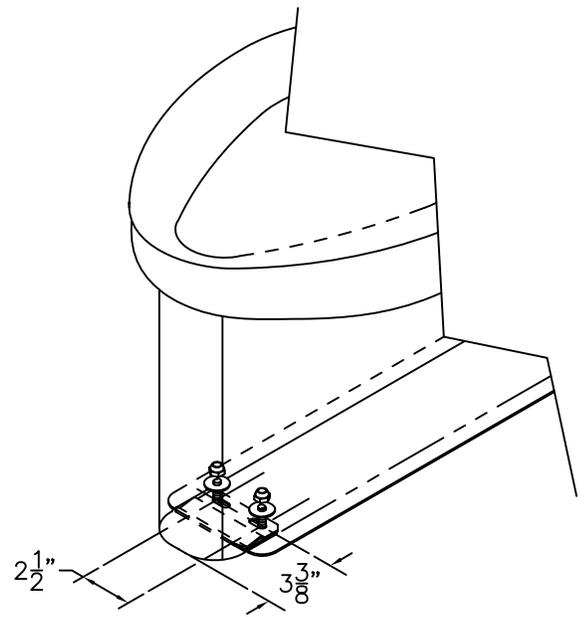
C-MAKE UP WASTE FITTING CONNECTION TO WASTE PIPING USING NO-HUB (BAND) CONNECTOR ②. BY OTHERS.

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TITLE		
<b>NO-HUB WASTE CONNECTION WITH CLEANOUT -CO1</b>		
MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
<b>JULY 1975</b>	<b>1/29/96</b>	<b>9925-054-001</b>
<b>PRESENT</b>	DATE REVISED <b>11/08/13 D</b>	



**FLANGE MOUNTING**



**S-CLIP MOUNTING**

-SS-SPS SUICIDE RESISTANT SKIRT OPTION IS PROVIDED WITH ADDITIONAL MOUNTING POINTS NOT NORMALLY PROVIDED WITH OUR STANDARD FIXTURES AND COME IN TWO STYLES AS INDICATED BELOW.

**FIXTURES w/ FLANGE MOUNTING:**

- A-AFTER ROUGHING IN AS REQUIRED, PLACE FIXTURE IN POSITION AND USE AS TEMPLATE TO LOCATE AND MARK FLANGE POINTS ON FLOOR.
- B-REMOVE FIXTURE AND INSTALL FLOOR ANCHORS BY OTHERS FOR 3/8\" DIAMETER FLANGE PUNCHING.
- C-ALIGN WALL AND FLOOR ANCHORING POINTS AND COMPLETE FIXTURE INSTALLATION AS INDICATED BY THE FIXTURE INSTALLATION SHEET PROVIDED.

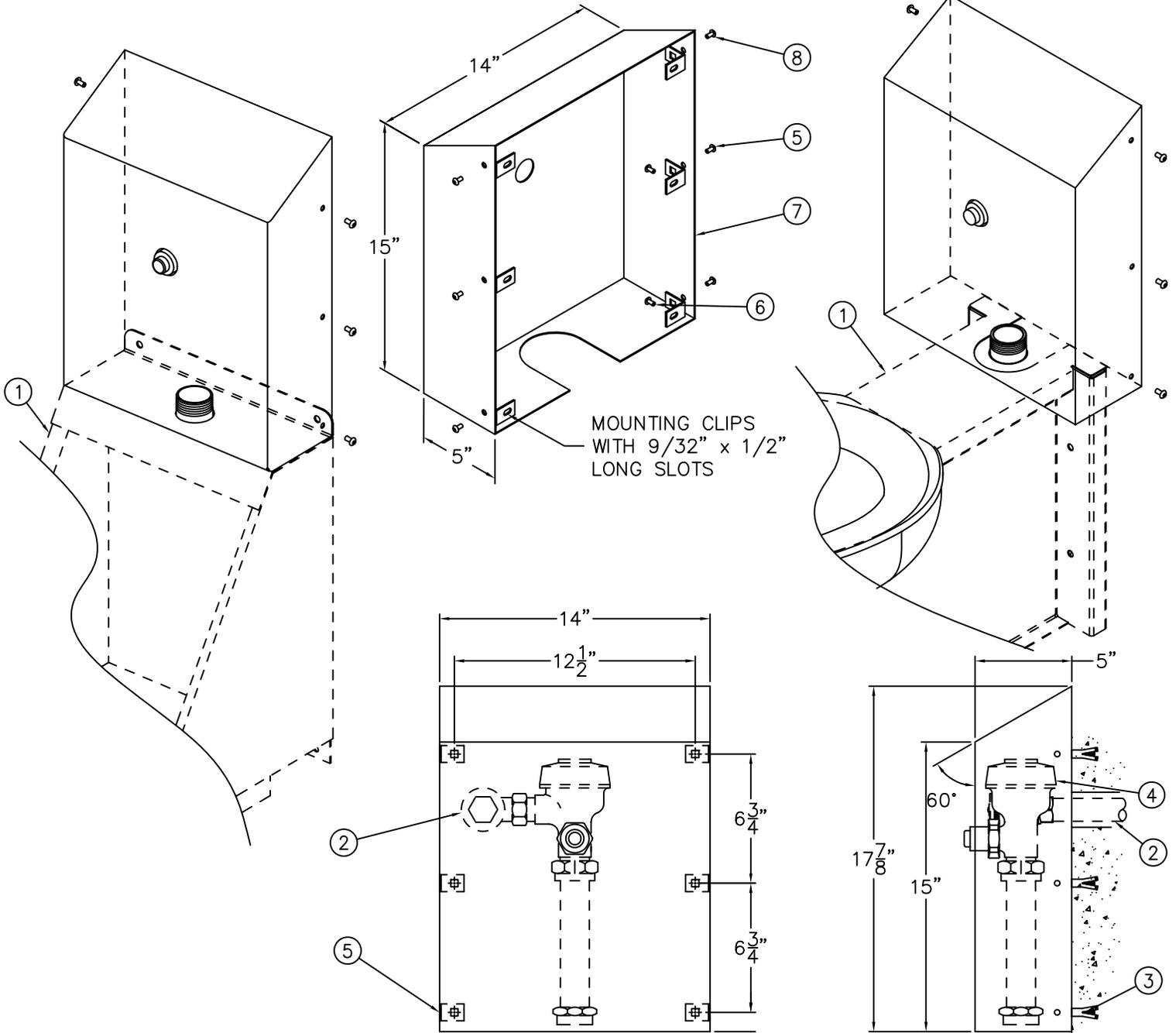
**FIXTURES w/ S-CLIP:**

- A-AFTER ROUGHING IN AS REQUIRED, PLACE FIXTURE IN POSITION AND USE AS A TEMPLATE TO LOCATE AND MARK S-CLIP MOUNTING LOCATION ON FLOOR AS INDICATED.
- B-REMOVE FIXTURE, INSTALL T-BOLTS FOR S-CLIP 3/8\" x 7/8\" LONG MOUNTING SLOTS AND SECURE WITH HYDRAULIC CEMENT (BY OTHERS)
- C-INSTALL S-CLIP
- D-PLACE FIXTURE ON FLOOR POSITIONING THE "NOSE" OF THE SKIRT SEVERAL INCHES IN FRONT OF S-CLIP MOUNTING LOCATION, SLIDE FIXTURE INTO PLACE ENGAGING THE S-CLIP AND ALIGNING WALL MOUNTING LOCATIONS. COMPLETE FIXTURE INSTALLATION AS INDICATED BY THE FIXTURE INSTALLATION SHEET PROVIDED.



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TITLE <b>-SPS MOUNTING DETAIL</b>		
MANUFACTURE DATE <b>AUGUST 2012 TO PRESENT</b>	DATE ISSUED <b>08/15/12</b>	DRAWING NUMBER <b>9925-007-001</b>
	DATE REVISED <b>11/05/13 A</b>	



MOUNTING CLIPS WITH 9/32" x 1/2" LONG SLOTS

Front View of -FVC-SLPT

Side View of -FVC-SLPT

**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.

Reference Drawings	
Security Screws	9951-005-001
Tinnerman Nuts	9951-007-001

NOTE: FIXTURES SHOWN FOR REFERENCE ONLY.

<p>ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200</p>	<p>TITLE <b>-FVC-SLPT FLUSH VALVE COVER WITH SLOPING TOP #2802</b></p>		
	<p>MANUFACTURE DATE <b>FEBRUARY 1975 TO PRESENT</b></p>	<p>DATE ISSUED <b>03/07/11</b></p>	<p>DRAWING NUMBER <b>9908-397-001</b></p>
		<p>DATE REVISED <b>04/15/13 E</b></p>	