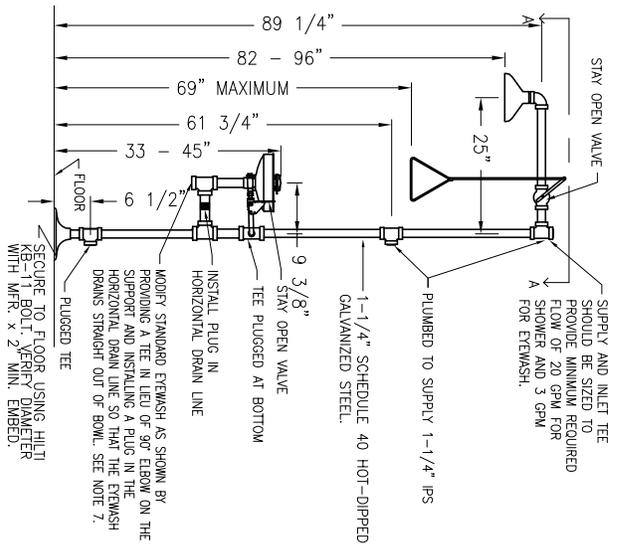
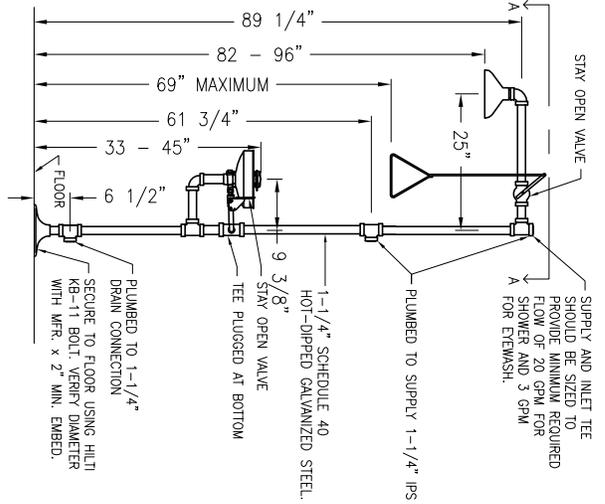


# LBNL STANDARDS EMERGENCY EYE/FACE WASH AND SHOWER STATION EWS INSTALLATION DETAIL

UNIVERSITY OF CALIFORNIA LAWRENCE BERKELEY NATIONAL LABORATORY  
FACILITIES DIVISION

DRAWN BY	DATE	CHECKED BY	APPROVED BY	CAD FILE PATH	SCALE
		MCD	MCD	12/22/2011	NTS
PROJECT NO.	DRAWING NO.				
	P102C				
SHEET					



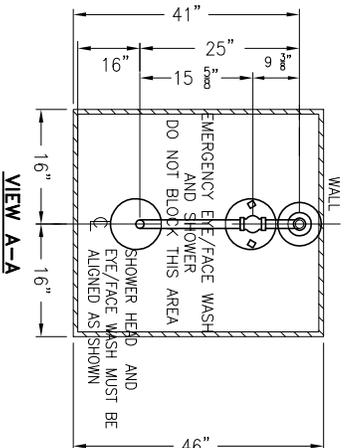
**EWS INSTALLATION DETAIL**

**EWS INSTALLATION DETAIL (ALT-1)**

**NOTES:**

1. A HAWS MODEL 8300-8309 COMBINATION EYE/FACE WASH SAFETY SHOWER SHALL BE USED. SHOWER HEAD MUST BE SP829 WITH INTEGRATED 20 GPM FLOW CONTROL.
2. LOCATE AWAY FROM EQUIPMENT & OBSTRUCTIONS TO MAINTAIN THE INDICATED CLEARANCES.
3. DEMARCATÉ CLEARANCE AREA WITH GREEN AND WHITE COLORS.
4. PROVIDE SUFFICIENT SPACE UNDERNEATH EYEWASH FOR DRAIN BUCKET.
5. PROVIDE ELECTRICAL CLEARANCES PER LBNL POLICY FOR EMERGENCY EYE/FACE WASHES AND SAFETY SHOWERS.
6. DIMENSIONS SHOWN ARE INTENDED TO REFLECT UNITS AS SUPPLIED BY MANUFACTURER. IF DIMENSIONS VARY MORE THAN ±1/2" CONTACT PROJECT ARCHITECT.
7. EWS INSTALLATIONS SHALL COMPLY WITH THE "EWS INSTALLATION DETAIL" ABOVE. INSTALLATIONS PER ALT 1 SHALL ONLY BE PERMITTED BY CASE-SPECIFIC CONCURRENCE BY EH&S.
8. INSTALL A "DO NOT CLOSE VALVE" TAG AT THE SUPPLY VALVE. TAG SHOULD BE PART NO. RPT-32 MANUFACTURED BY HCL INC., 510 E. MAUDE AVE., SUNNYVALE CA 94086.
9. ASSIGN AN EQUIPMENT ID NO. TO THE NEWLY INSTALLED UNIT & AFFIX AN EQUIPMENT ID ON THE WALL ADJACENT TO THE UNIT.
10. USE DOMESTIC WATER SUPPLY TO BE 30+/- 0.5 PSI. SHOWER FLOW RATE TO BE AT LEAST 20 GPM. EYE/FACE WASH FLOW RATE TO BE AT LEAST 3.0 GPM
11. HAWS INSTALLATION RECOMMENDATION: "DO NOT USE REGULAR PIPE SEALANT. IF NECESSARY USE DOW CORNING 832 SEALANT PLACING 5 SMALL BEADS ON THE MALE TREADS, JUST ABOVE THE FIRST THREAD."

\* EWS: EMERGENCY EYE/FACEWASH & SAFETY SHOWER  
\*\* ONLY QUALIFIED ELECTRICIANS SHALL INSTALL GFCIS



**MIN. CLEARANCES OF EWS FROM ENERGIZED ELECTRICAL CIRCUITS.**

CONDITION	ACTION	ACTION
EWS ON SAME HORIZONTAL PLANE & >48" FROM PANEL, WALL & SWITCH, DISCONNECT OR OUTLET	NO ACTION REQUIRED	
EWS ON SAME HORIZONTAL PLANE & >36" & <48" FROM PANEL, WALL, SWITCH, DISCONNECT OR OUTLET	SHIELD PANELS & DISCONNECT WITH PLEXIGLAS (1" WIDE & LONG ENOUGH TO EXTEND 4" PAST PANEL/DISCONNECT TOP & BOTTOM AT SIDE AND ACROSS TOP). ** GFCI PROTECT OUTLETS. INSTALL "CARLON" WEATHER PROOF COVERS ON SWITCHES & OUTLETS.	
EWS <36" FROM WALL SWITCH OR OUTLET (CAN BE ON SAME HORIZONTAL PLANE OR IN FRONT OF SWITCH OR OUTLET).	INSTALL "CARLON" WEATHER PROOF COVERS ON SWITCHES & RECEPTACLES.	
EWS ON SAME HORIZONTAL PLANE & <36" FROM PANEL OR DISCONNECT	NO GUARDING/SHIELDING PERMITTED. EITHER MOVE EWS OR ELECTRICAL COMPONENT.	
EWS IN FRONT OF & >36" FROM 120/208 V PANEL OR DISCONNECT	NO ACTION REQUIRED	
EWS IN FRONT OF & <36" FROM 120/208 V PANEL OR DISCONNECT	NO GUARDING/SHIELDING PERMITTED. EITHER MOVE EWS OR ELECTRICAL COMPONENT.	
EWS IN FRONT OF & >42" FROM 480 V PANEL OR DISCONNECT	NO ACTION REQUIRED	
EWS IN FRONT OF & <42" FROM 480 V PANEL OR DISCONNECT	NO GUARDING/SHIELDING PERMITTED. EITHER MOVE EWS OR ELECTRICAL COMPONENT.	