

2 ROOF DRAIN AND OVERFLOW DRAIN
SCALE: 6" = 1'-0"

ROOF DRAINAGE CALCULATIONS (FOR SCUPPERS ONLY)

ROOF AREA NAME	AREA (SF)	VERTICAL WALLS PER 1106.4		TOTAL CALCULATION AREA	NUMBER OF DRAINS	AREA PER DRAIN	PRIMARY DRAINS PER 1106.1		SECONDARY DRAINS PER 1106.1(a)	
		ADDITIONAL AREA	HALF OF AREA				INCHES PER HOUR	GALLONS PER MINUTE PER EACH DRAIN	INCHES PER HOUR	GALLONS PER MINUTE EACH DRAIN
EAST STAIR	127 SF	43 SF	21 SF	148 SF	2	74 SF	4	3	7.2	6
OUTDOOR STORAGE 169	24 SF	32 SF	16 SF	40 SF	1	40 SF	4	2	7.2	3
OUTDOOR STORAGE 161	51 SF	56 SF	28 SF	79 SF	1	79 SF	4	3	7.2	6
OUTDOOR STORAGE 164	22 SF	32 SF	16 SF	38 SF	1	38 SF	4	2	7.2	3
PORTE COCHERE ROOF	386 SF	49 SF	24 SF	421 SF	1	421 SF	4	17	7.2	31
WEST STAIR	127 SF	43 SF	21 SF	148 SF	2	74 SF	4	3	7.2	6

ROOF NOTES:

- PORTE COCHERE ROOF HAS A 421 SF DRAINAGE AREA PER DRAIN. PER 2018 NPCI TABLE 1106.2(2) AT 4 INCHES PER HOUR RAINFALL RATE, THE MINIMUM SIZE RECTANGULAR VERTICAL LEADER REQUIRED IS A 1-3/4 x 2-1/2 PER FIGURE 1106.5. THE MINIMUM SIZE PRIMARY SCUPPER LENGTH OPENING WITH A 2-INCH HEAD IS 6 INCHES. THE MINIMUM SIZE SECONDARY SCUPPER LENGTH WITH A 2-INCH HEAD IS 6 INCHES.
- OUTDOOR STORAGE & STAIR ROOF AREAS ARE LESS THAN THE PORTE COCHERE. THEREFORE, THE SAME CONDUCTOR BOX, THRU WALL SCUPPERS, AND DOWNSPOUTS ARE SPECIFIED AS THE PORTE COCHERE. SIZING IS ADEQUATE.

CS/DS CONDUCTOR BOX (12" L x 8" D x 12" H)
- SCUPPER (8" L x 8" H)
- DOWNSPOUT (4" L x 3" D)

OS OVERFLOW THRU WALL SCUPPER - SCUPPER (8" L x 6" H)

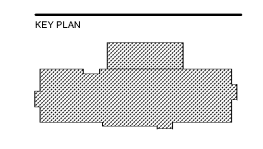
NOTE: PROVIDE SHALLOW CAST IRON BOOT AT DOWNSPOUTS AT THE EAST AND WEST STAIRS. CAST IRON BOOTS ARE PAINTED TO MATCH DOWNSPOUT (BOTH TO MATCH ADJACENT BRICK). TOTAL TYPICAL LENGTH OF BOOT IS 24" WHERE THE TOP OF BOOT IS 12" ABOVE FINISH GRADE. UNLESS OTHERWISE NOTED, THE BOOT IS TO BE CUT TO THE ROOF LEADER 12" BELOW FINISHED GRADE / PAVING. SEE 101 FOR UNDERGROUND CONNECTION AND SEE FOR DOWNSPOUT THROUGH-WALL FLASHING DETAIL ON THE WALL SECTION WALLS SHEET.



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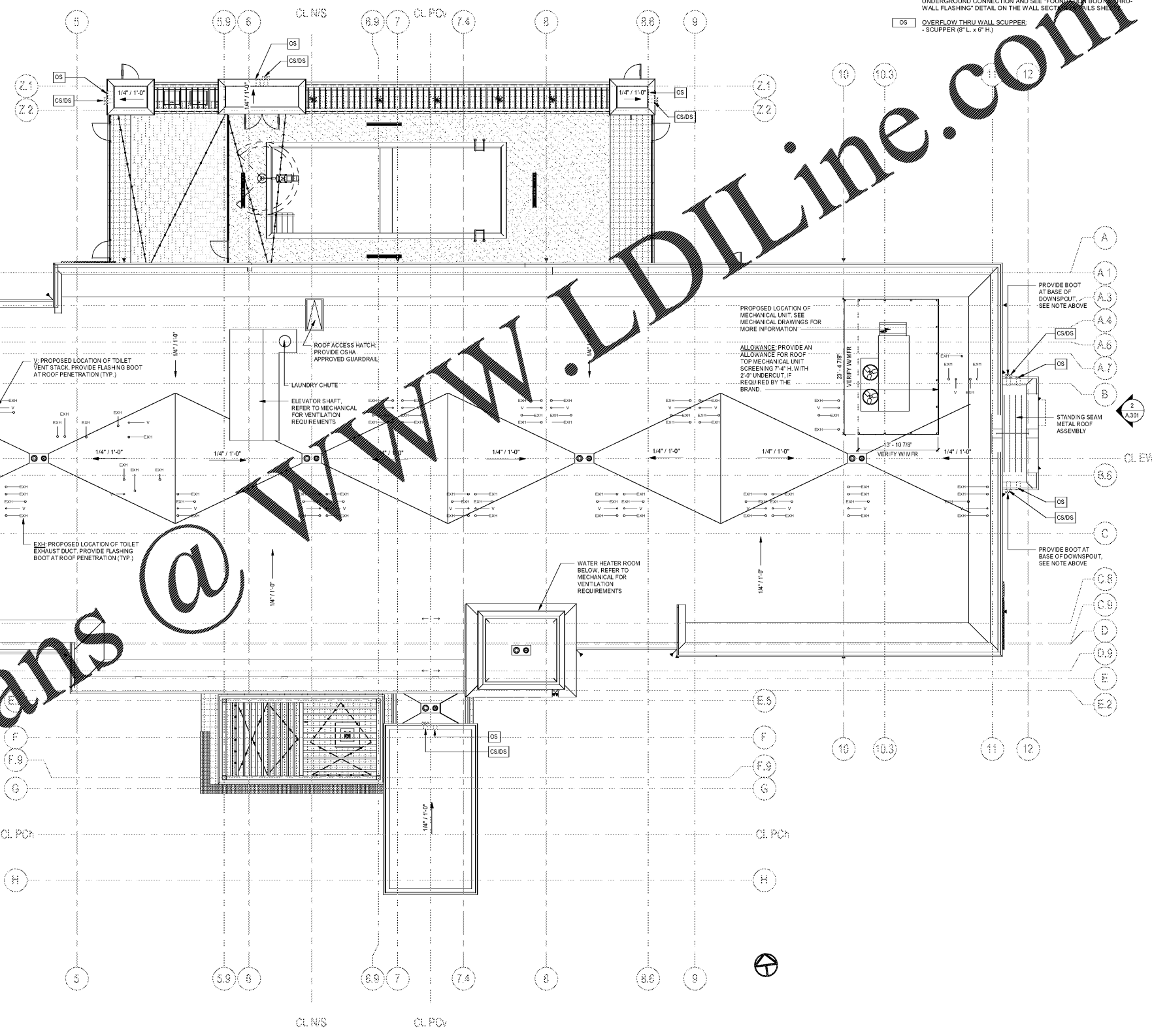
Revisions

#	Date	Description

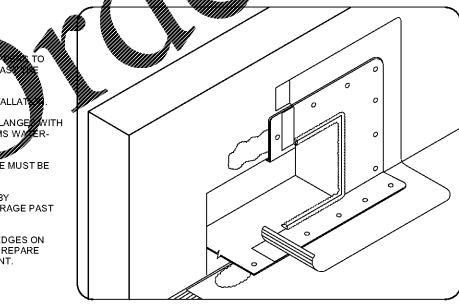
Project Number: 18021
Issued for: CONSTRUCTION
Issue Date: 2019-06-07

DRAWING TITLE
ROOF PLAN

SHEET NUMBER
A.251



1 ROOF PLAN
SCALE: 1" = 1'-0"



- NOTES:**
- FRY WOOD BLOCKING IS ONLY INSTALLED AT SCUPPERS TO SECURE THE METAL SLEEVE AND MUST EXTEND PAST THE WIDTH OF THE METAL SLEEVE.
 - INSTALL WALL FLASHING PRIOR TO SCUPPER INSTALLATION.
 - METAL SCUPPER BOX MUST HAVE CONTINUOUS FLANGES WITH ROUNDED CORNERS. SOLDER ALL SCUPPER SEAMS WATER-TIGHT.
 - WATER CUT-OFF MASTIC UNDER SCUPPER FLANGE MUST BE UNDER CONSTANT COMPRESSION.
 - SCUPPER FLANGES MUST BE TOTALLY COVERED BY ELASTOFORM FLASHING WITH A MINIMUM 2" COVERAGE PAST THE FASTENER HEAD.
 - SINGLE-PLY SEALANT IS REQUIRED AT FLASHING EDGES ON SCUPPER EDGE. TPO PRIMER MUST BE USED TO PREPARE SURFACES PRIOR TO THE APPLICATION OF SEALANT.

3 SCUPPER & OVERFLOW NOTES
SCALE: 3" = 1'-0"