

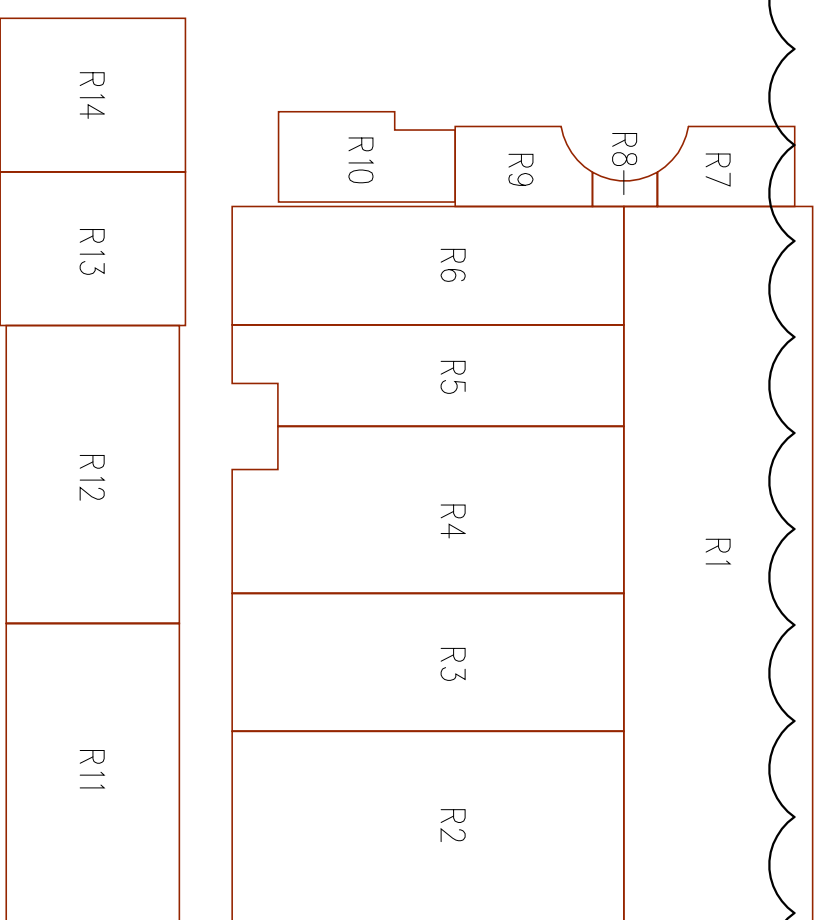
**Overflow Scupper and Roof Drain Calculations**

Rainfall Rate 5" per Hour			
AREA #	SCUPPER #	HORIZ. PROJ. AREA	1/2 OF VERTICAL WALL AREA
1	S1	3,747.49 SF	25.40 SF
2	S2	2,067.30 SF	125.89 SF
3	S3	1,501.51 SF	42.16 SF
4	S4	1,762.49 SF	64.93 SF
5	S5	1,049.81 SF	44.91 SF
6	S6	1,284.34 SF	50 SF
7	S7	278.66 SF	57.97 SF
8	S8	51.18 SF	2.83 SF
9	S9	278.66 SF	57.97 SF
10	S10	411.25 SF	110.11 SF
11	S11	1,433.71 SF	128.16 SF
12	S12	1,433.71 SF	94.33 SF
13	S13	790.18 SF	157.00 SF
14	S14	4" x 8" w	157.00 SF

Scupper cross sectional area is to be three times the area of the RWL  
 (7.06 SQ IN) x (3) = 21.19 SQ IN  
 Scupper clear opening size 4" x 8"

**HORIZONTAL STORM DRAINAGE PIPE SIZE**

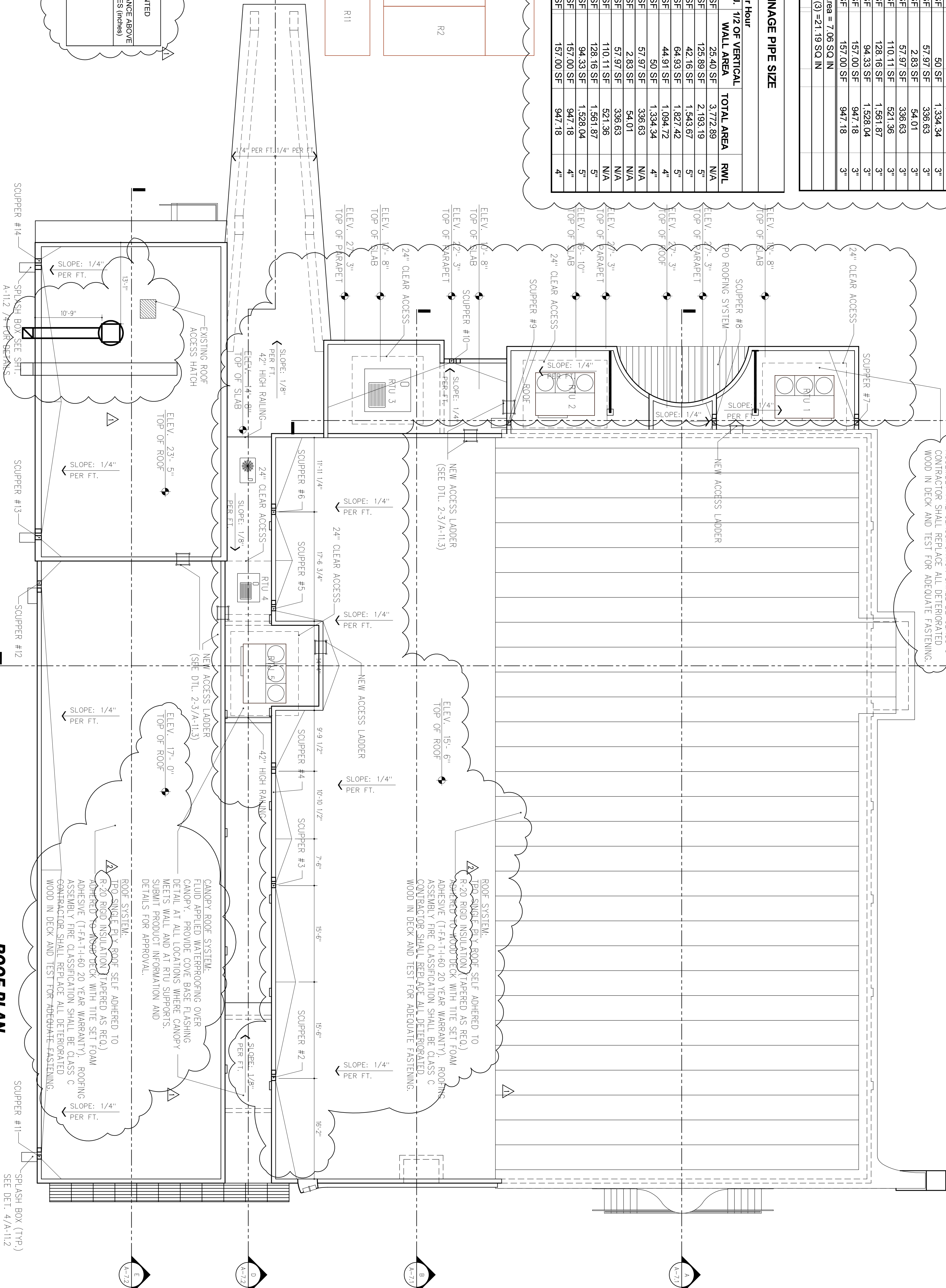
Rainfall Rate 5" per Hour				
AREA #	SCUPPER #	HORIZ. PROJ. AREA	1/2 OF VERTICAL WALL AREA	TOTAL AREA
1	S1	3,747.49 SF	25.40 SF	3,772.89
2	S2	2,067.30 SF	125.89 SF	2,193.19
3	S3	1,501.51 SF	42.16 SF	1,543.67
4	S4	1,762.49 SF	64.93 SF	1,827.42
5	S5	1,049.81 SF	44.91 SF	1,094.72
6	S6	1,284.34 SF	50 SF	1,334.34
7	S7	278.66 SF	57.97 SF	336.63
8	S8	51.18 SF	2.83 SF	54.01
9	S9	278.66 SF	57.97 SF	336.63
10	S10	411.25 SF	110.11 SF	521.36
11	S11	1,433.71 SF	128.16 SF	1,561.87
12	S12	1,433.71 SF	94.33 SF	1,528.04
13	S13	790.18 SF	157.00 SF	947.18
14	S14	4" x 8" w	157.00 SF	947.18



**ROOF NOTES:**  
 1. ROOF SYSTEM IS DESIGNED TO PREVENT THE ACCUMULATION OF MORE THAN FIVE INCHES OF WATER ON ANY PORTION OF THE ROOF.  
 2. CONTRACTOR TO REMOVE AND REINSTALL EXISTING HATCH AS NECESSARY FOR ROOF INSTALLATION.  
 3. PROVIDE SPLASH BLOCKS AT THE BOTTOM OF ALL DAYLIGHTING RWLS.

TABLE 1509.7  
 CLEARANCE BELOW RAISED ROOF MOUNTED MECHANICAL UNITS

WIDTH OF MECHANICAL UNIT (inches)	MINIMUM CLEARANCE ABOVE ROOF SURFACES (inches)
< 24	14
24 < 36	18
36 < 48	24
48 < 60	30
> 60	48



**ROOF SYSTEM:**  
 R-20 RIGID INSULATION ADHERED TO WOOD DECK WITH THE SET FOAM ADHESIVE (TFA-1-1-60 20 YEAR WARRANTY). ROOFING ASSEMBLY FIRE CLASSIFICATION SHALL BE CLASS C CONTRACTOR SHALL REPLACE ALL DETERIORATED WOOD IN DECK AND TEST FOR ADEQUATE FASTENING.

**ROOF SYSTEM:**  
 R-20 RIGID INSULATION (TAPERED AS REQ.) ADHERED TO WOOD DECK WITH THE SET FOAM ADHESIVE (TFA-1-1-60 20 YEAR WARRANTY). ROOFING ASSEMBLY FIRE CLASSIFICATION SHALL BE CLASS C CONTRACTOR SHALL REPLACE ALL DETERIORATED WOOD IN DECK AND TEST FOR ADEQUATE FASTENING.

**ROOF SYSTEM:**  
 CANOPY ROOF SYSTEM: FLUID APPLIED WATERPROOFING OVER CANOPY, PROVIDE CONE BASE FLASHING DETAIL AT ALL LOCATIONS WHERE CANOPY MEETS WALL AND AT RTU SUPPORTS. SUBMIT PRODUCT INFORMATION AND DETAILS FOR APPROVAL.

**ROOF SYSTEM:**  
 R-20 RIGID INSULATION (TAPERED AS REQ.) ADHERED TO WOOD DECK WITH THE SET FOAM ADHESIVE (TFA-1-1-60 20 YEAR WARRANTY). ROOFING ASSEMBLY FIRE CLASSIFICATION SHALL BE CLASS C CONTRACTOR SHALL REPLACE ALL DETERIORATED WOOD IN DECK AND TEST FOR ADEQUATE FASTENING.

**ROOF PLAN**

SCALE: 1/8" = 1'-0"

**FIRST HAITIAN FREE CHURCH OF NAZARENE**

First Haitian Free Church of Nazarene by Faith  
 ORLANDO, FLORIDA

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**A-5**

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