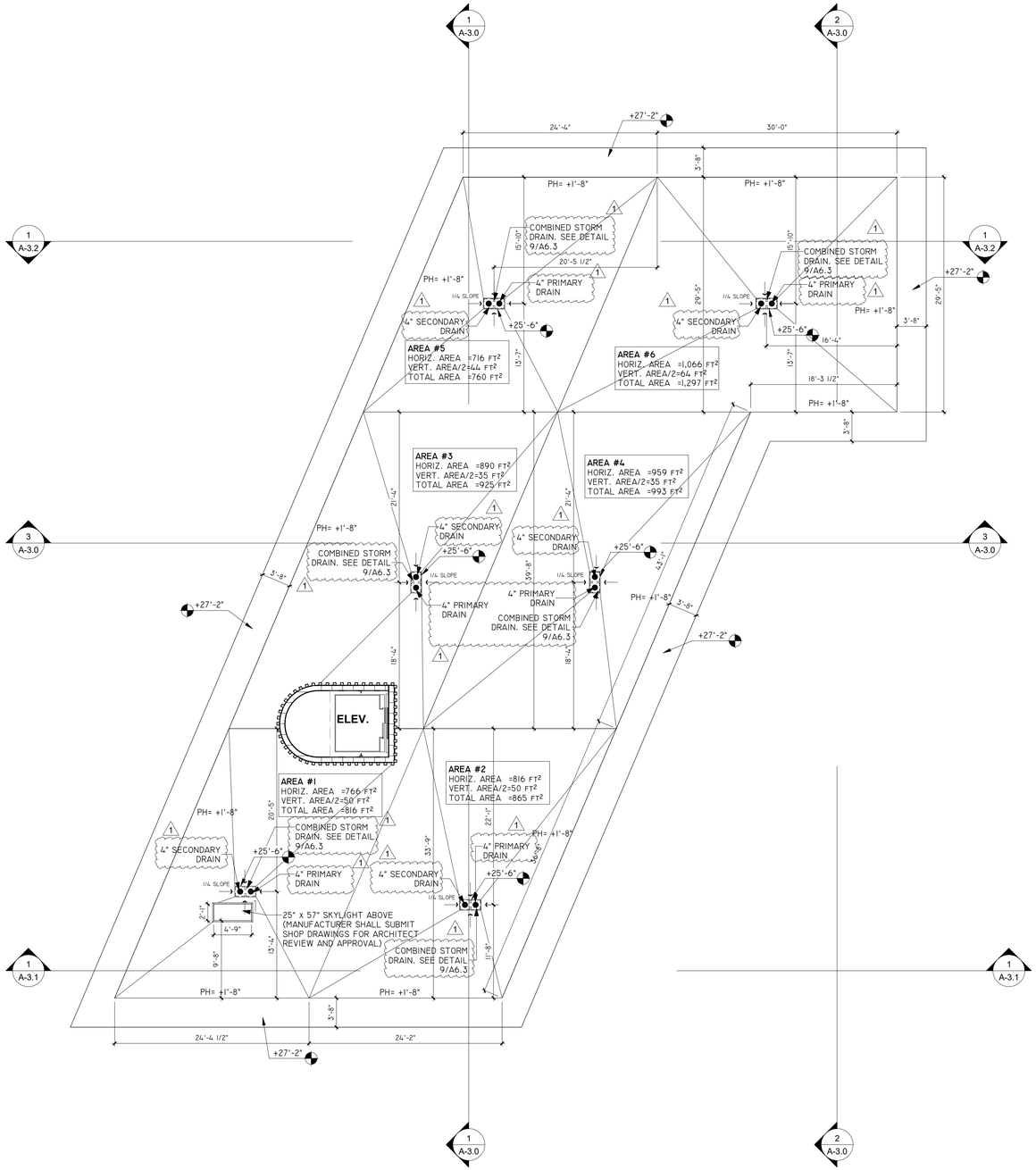

I A-1.2 ROOF
1/8" = 1'-0"

NOTE:
FOR TYPICAL ARCHITECTURAL DETAILS REFER TO SHEET "A-6.2-DETAILS" (ROOFING, WATER-PROOFING, PARAPETS, ROOF DRAINS, SCUPPERS, ETC). REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWING FOR ROOF PENETRATIONS, ROOF DRAIN CALCULATIONS, AND OTHER DETAILS. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL DETAILS.

ROOFING INSULATION MATERIAL:
ROOF FINISH SHALL BE GAF RUBEROID MODIFIED BITUMEN ROOF SYSTEM (NOA No. 18-0919.13) EXPIRES 11/06/2023 ON XCI FOIL, XCI CLASS A POYISO ROOF TAPERED INSULATION (NOA No. 18-1024.06) EXPIRES 01/02/2024 OR APPROVED EQUAL.

ROOF SKYLIGHT:
MODEL DCM MOUNT & DSF SELF-FLASHING ALUMINUM SKYLIGHTS BY MAXIUM INDUSTRIES, INC. MIAMI-DADE NOA NO. 18-1217.13 WITH EXPIRATION DATE, 02/20/2024.

SOLAR REFLECTIVE EXTERIOR AREAS

ALL MATERIALS TO COMPLY WITH ARTICLE 3 OF THE MIAMI 21 CODE
ALL EXTERIOR WALKWAYS, VEHICULAR ENTRANCES AND HARDSCAPE SURFACE MUST BE USED A NEW GRAY CONCRETE WITH A SOLAR REFLECTIVE 0.35.
ROOF MATERIALS SHOULD BE LIGHT-COLORED, HIGH ALBEDO OR A PLANTED SURFACE AND SHALL COMPLY WITH ARTICLE 3, SECTION 3.13.2 OF THIS CODE

SOLAR REFLECTIVE ROOF AREAS

SOLAR REFLECTANCE INDEX TO BE SRI 78 REFER TO MECHANICAL DRAWINGS FOR ROOF TOP EQUIPMENTS & ROOF DRAINAGE PIPING & SIZES & LOCATION IN WALLS
GENERAL CONTRACTOR TO PROVIDE FLAT ROOFING NOTE: GAF EVERGUARD TPO 60 MILL SINGLE PLY ROOFING SYSTEM (OR APPROVED EQUAL) (W/ 20 YEAR WARRANTY) 2" TO 10" MAX. (1/4" PER FT.) OVER 2" RIGID INSULATION ON CONCRETE DECK AS RECOMMENDED BY MANUFACTURER AND COMPLYING WITH UPLIFT REQUIREMENTS AS LISTED IN THE STRUCTURAL DRAWINGS.
ROOF SYSTEM SHALL COMPLY WITH SECTION 1507.11 OF THE FLORIDA BUILDING CODE 2020, BUILDING. NOTE: AVERAGE INSULATION R VALUE OF ROOF SYSTEM TO BE R=19 . G.C. TO SUBMIT ROOFING SYSTEM TO ARCHITECT FOR APPROVAL.
COLOR: WHITE

HEAT ISLAND EFFECT SOLAR REFLECTANCE REQUIREMENTS:
ROOFING MATERIALS AND ALL ROOF EXTERIOR SURFACES AND BUILDING MATERIALS SHALL HAVE A MINIMUM SOLAR REFLECTANCE AS PER SECTION 3.13.2.c AND 3.13.2.b WHEN TESTED IN ACCORDANCE WITH ASTM E903 OR ASTM E1918 AS PER MIAMI 21 ARTICLE 3 SECTION 3.13.2 HEAT ISLAND EFFEC

** 3"Ø RAIN WATER LEADERS CAN HANDLE UP TO 1,760 Sq.Ft. ** 4"Ø RAIN WATER LEADERS CAN HANDLE UP TO 3,680 Sq.Ft. OF HORIZONTALLY PROJECTED ROOF AREA.
THIS ROOF TO BE STRUCTURALLY CALCULATED FOR A MAXIMUM ACCUMULATION OF 6" OF WATER IN THE WORST-CASE SCENARIO OF CLOGGED ROOF DRAINS.z

TABLE 1106.3
VERTICAL LEADER SIZING

SIZE OF LEADER (inches)	CAPACITY (gpm)
2	30
2 × 2	30
$1^1/_2 \times 2^1/_2$	30
$2^1/_2$	54
$2^1/_2 \times 2^1/_2$	54
3	92
2 × 4	92
$2^1/_2 \times 3$	92
4	192
$3 \times 4^1/_4$	192
$3^1/_2 \times 4$	192
5	360
4 × 5	360
$4^1/_2 \times 4^1/_2$	360
6	563
5 × 6	563
$5^1/_2 \times 5^1/_2$	563
8	1208
6 × 8	1208

For SI:1 inch = 25.4 mm, 1 gallon per minute = 3.785 L/m.

TABLE 1106.2
STORM DRAIN PIPE SIZING

PIPE SIZE (inches)	CAPACITY (gpm)				
	VERTICAL DRAIN	* SLOPE OF HORIZONTAL DRAIN			
		1/16 inch per foot	1/8 inch per foot	1/4 inch per foot	1/2 inch per foot
2	34	15	22	31	44
3	87	39	55	79	111
4	180	81	115	163	231
5	311	117	165	234	331
6	538	243	344	487	689
8	1,117	505	714	1,010	1,429
10	2,050	927	1,311	1,855	2,623
12	3,272	1,480	2,093	2,960	4,187
15	5,543	2,508	3,546	5,016	7,093

For SI:1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 gallon per minute = 3.785 L/m.

ROOF AREAS

GPM=AREA 1 x 0.052, FBC P 1101.7 C
GPM=1,032 SQ. FT. x 0.052
GPM=53.6

GPM=AREA 2 x 0.052, FBC P 1101.7 C
GPM=1,080 SQ. FT. x 0.052
GPM=56.1

GPM=AREA 3 x 0.052, FBC P 1101.7 C
GPM=981 SQ. FT. x 0.052
GPM=51

GPM=AREA 4 x 0.052, FBC P 1101.7 C
GPM=1,050 SQ. FT. x 0.052
GPM=54.6

GPM=AREA 5 x 0.052, FBC P 1101.7 C
GPM=1,006 SQ. FT. x 0.052
GPM=52.3

GPM=AREA 6 x 0.052, FBC P 1101.7 C
GPM=1,422 SQ. FT. x 0.052
GPM=73.9

GPM=AREA 7 x 0.052, FBC P 1101.7 C
GPM=810 SQ. FT. x 0.052
GPM=42.1

TABLE 1106.7
SIZING SCUPPERS FOR A-5 INCH PER HOUR RATE OF RAINFALL

HEAD IN INCHES	HORIZONTALLY PROJECTED ROOF AREA (SQUARE FEET)						
	LENGTH OF WEIR IN INCHES						
	4	6	8	12	16	20	24
1	230	346	461	692	923	1153	1384
2	641	961	1282	1923	2564	3205	3846
3	1153	1730	2307	3461	4615	5769	6923
4	1794	2692	3589	5384	7179	8974	10,769

JORGE L VILLAVICENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.11.06 09:52:24 -05'00'

REVISIONS

Rev.	Date	Description
1	10-9-2023	Building comment

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Construction Service Cert. AA0003589 — Architectural Seal — STATE OF FLORIDA — JORGE L VILLAVICENCIO — REGISTERED ARCHITECT — R0012110

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: ROOF PLAN
DRAWING NO : A-1.2