

ROOF DRAIN / OVERFLOW SCUPPER DRAINAGE CALCULATION																		
ROOF AREA	ROOF DRAIN / SCUPPER ID. NO.	ROOF DRAIN / SCUPPER SIZE	EMERGENCY/ OVERFLOW SCUPPER ID. NO.	ROOF DRAINAGE AREA CALCULATIONS			ROOF DRAIN / RWL PIPING SIZING						PRIMARY SCUPPER CALCULATION		EOS - EMERGENCY OVERFLOW SCUPPER CALCULATION		NOTES	
				HORIZONTAL PROJECTION (SF)	1/2 AREA VERTICAL WALL SF	TOTAL AREA DRAINED SF ROOF + PARAPET =TOTAL	GMP = R*A*0.0104	GMP REQUIRED	QTY.	SIZE	S.I. AREA	GMP PROVIDED	DRAIN PIPE CIRCUMFERENCE	SC SIZE	SC AREA PROVIDED	EOS SIZE		EOS EFFECTIVE AREA PROVIDED
'A'	RD.01	4"	EOESC A1	1,136	207	1,343	5 X 1,343 X 0.0104	70	1	4"	12.57	180	12.57			14"W x 4"H x 16"D	14"x 4" = 56 S.I.	BASE OF EOS EMERGENCY OVERFLOW SCUPPER SET 2" ABOVE ELEVATION OF I.D. PER FBCE
'B1'	RD.02	3"	EOESC B1	680	86	766	5 X 766 X 0.0104	40	1	3"	7.07	87	9.43			10"W x 4"H x 16"D	10"x 4" = 40 S.I.	BASE OF EOS EMERGENCY OVERFLOW SCUPPER SET 2" ABOVE ELEVATION OF I.D. PER FBCE
'B2'	RD.03	3"	EOESC B2	702	86	788	5 X 788 X 0.0104	41	1	3"	7.07	87	9.43			10"W x 4"H x 16"D	10"x 4" = 40 S.I.	BASE OF EOS EMERGENCY OVERFLOW SCUPPER SET 2" ABOVE ELEVATION OF I.D. PER FBCE
'C'	SC.C1	8"W x 4"H x 16"D	EOESC C1	360	108	460	5 X 460 X 0.0104	24	1	2"	3.14	31	6.28	10"W x 4"H x 16"D	10"x 4" = 40 S.I.	10"W x 4"H x 16"D	10"x 4" = 40 S.I.	
'D'	SC.D1	8"W x 4"H x 16"D	EOESC D1	268	119	387	5 X 387 X 0.0104	21	1	2"	3.14	31	6.28	10"W x 4"H x 16"D	10"x 4" = 40 S.I.	10"W x 4"H x 16"D	10"x 4" = 40 S.I.	
'E'	SC.E1	8"W x 4"H x 16"D	EOESC E1	87	19	106	5 X 106 X 0.0104	6	1	2"	3.14	31	6.28	10"W x 4"H x 16"D	10"x 4" = 40 S.I.	10"W x 4"H x 16"D	10"x 4" = 40 S.I.	
'F'	-	-	-	1,300	-	1300	-	-	-	-	-	-	-	-	-	-	-	
'G'	SC.G1	8"W x 4"H x 16"D	EOESC G1	257	66	323	5 X 323 X 0.0104	17	1	2"	3.14	31	6.28	10"W x 4"H x 16"D	10"x 4" = 40 S.I.	10"W x 4"H x 16"D	10"x 4" = 40 S.I.	
'H'	SC.H1	8"W x 4"H x 16"D	EOESC H1	517	109	626	5 X 626 X 0.0104	33	1	3"	7.07	87	9.43	10"W x 4"H x 16"D	10"x 4" = 40 S.I.	10"W x 4"H x 16"D	10"x 4" = 40 S.I.	
ROOF DESIGN BASIS				ROOF SYSTEM				GENERAL ROOF NOTES										
THE ROOF SYSTEM IS DESIGNED TO PREVENT A MAXIMUM ACCUMULATION OF 3 INCHES OF RAINWATER ON ANY PORTION OF THE ROOF.				PROVIDE GAF EVERGUARD TWO SINGLE PLY ROOFING SYSTEMS OVER CONCRETE DECK WITH INSULATION. 20-YEAR WARRANTY. NO-MP 23-0605/02, EXP. 07-13-20, TYP. PROVIDE GAF PREMIUM ACRYLIC HYDROSTOP SYSTEM OVER CONCRETE DECKS, 20-YEAR WARRANTY. NO-MP 23-1130.03, EXP. 06-22-28, TYP. FOR ALL SLABS OVER INTERIOR SPACES AND EYEBROWS/CANOPES.				1. ROOFING WORK SHALL BE PERFORMED BY A QUALIFIED AND INSURED ROOFING CONTRACTOR AND CERTIFIED FOR THE SYSTEM BEING INSTALLED. 2. THE ROOFING SYSTEM SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" PER FOOT, WITH ALL INVERTS AND REVERSE PITCH SLOPES HAVING A MINIMUM SLOPE OF 1/4" PER FOOT. 3. THE ROOFING SYSTEM SHOULD EXTEND VERTICALLY UP THE PARAPET AND OVERLAP THE TOP ON PARAPETS NOT EXCEEDING 36" IN HEIGHT. ALL OTHER PARAPET CONDITIONS SHALL BE FULLY FLASHED WITH A CONTINUOUS GALVANIZED METAL COUNTER-FLASHING REGLET SYSTEM, FULLY CLINKED AT JOINTS. 4. STRICTLY FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS, CRITERIA AND NOA LETTER REQUIREMENTS FOR THE ROOFING INSTALLATION. 5. ALL ROOF MOUNT EQUIPMENT SHALL BE MOUNTED ON CURBS OR NON-RATED ROOF STANDS SECURE TO THE ROOF STRUCTURE. 6. PROVIDE CONCRETE SPLASH BLOCKS AT ALL DOWNSPOUTS OR SCUPPER OUTLETS. 7. EMERGENCY OVERFLOW SCUPPERS SHALL EXTEND A MINIMUM OF 3 INCHES PAST THE FACE OF THE PARAPET AND BE FULLY FLASHED AND SEALED AROUND THE FULL PERIMETER OF THE SCUPPER.										
ROOF SAFEGUARDS				ROOF SYSTEM NOTES				ROOF DRAINAGE & SCUPPER NOTES										
FBC 1015.6 AND FBCM 304.11 ROOF SAFEGUARDS SHALL BE PROVIDED AT PARAPET OF ROOF WHERE ROOF MOUNTED EQUIPMENT REQUIRES SERVICE AND SUCH EQUIPMENT ARE LOCATED WITHIN 10 FEET OF A ROOF EDGE OR OPEN SIDE OF A ROOF WALKING SURFACE AND SUCH EDGE OF ROOF IS MORE THAN 30 INCHES ABOVE THE FLOOR BELOW. THE SAFEGUARD SHALL EXTEND NOT LESS THAN 30" PAST EACH END SIDE OF ANY SUCH EQUIPMENT. THE GUARD RAILING OR PARAPET SHALL BE 42 INCHES HIGH INSTALLED TO REJECT A 21" DIAMETER SPHERE.				1. ALL PRIMARY SCUPPERS TO BE 8" WIDE X 4" HIGH X 16" DEEP. 2. ALL EMERGENCY OVERFLOW SCUPPERS (E.O.S.) SHALL BE 8" WIDE X 4" HIGH X 16" DEEP. 3. ALL EMERGENCY OVERFLOW SCUPPERS (E.O.S.) SHALL BE SET 2" ABOVE THE RIM ELEVATION OF THE INTERNAL ROOF DRAIN PER FBC. 4. INTERNAL ROOF DRAINS SHALL BE 3" DIAMETER. 5. ROOF SLOPE = 1/4" PER 12" MINIMUM U.O.N. 6. PROVIDE 20-YEAR WARRANTY.				1. EL MARKS AT L.P. INDICATES TOP OF ROOFING U.O.N. 2. ROOF SLOPE = 1/4" PER 12" MINIMUM U.O.N. 3. OVERFLOW SCUPPERS SHALL BE PLACED TO PREVENT AN ACCUMULATION OF MORE THAN 5" OF WATER ON ANY PORTION OF THE ROOF. 4. ALL EMERGENCY OVERFLOW SCUPPERS TO BE SET WITH THE INLET FLOW LINE AT NO LESS THAN 2 INCHES NOR MORE THAN 4 INCHES ABOVE THE LOW POINT OF THE PRIMARY DRAIN. 5. ROOF AREAS INCLUDE 1/2 SF AREA OF INSIDE VERTICAL FACE OF PARAPETS. 6. ALL SCUPPER DIMENSIONS SHALL BE 4" MINIMUM, TYP. REFER TO MANUFACTURER SPECS FOR ROUGH OPENING REQUIREMENTS.										
NOTE: ROOF WORK SHALL BE PERFORMED UNDER SEPARATE PERMIT																		

PHOTOVOLTAIC/SOLAR NOTES

1. PROVIDE 1" MIN. CONDUIT FROM ROOF TO STUBBED JUNCTION BOX ADJACENT TO ELECTRIC METER.
2. ALL ENDS OF CONDUITS AND PIPES SHALL BE STUBBED UP AND CAPPED, AND SHALL BE PROVIDED WITH ADEQUATE FLASHING.
3. ALL EQUIPMENT SHALL BE MOUNTED ON A ROOF LOCATION WHERE A MINIMUM OF FOUR HOURS OF DIRECT SUNLIGHT IS ACHIEVED.
4. ROOF REINFORCEMENTS SHALL BE ADDRESSED AT THE TIME OF INSTALLATION, TYP.

ENERGY SYNOPSIS

PROJECT OR OWNER'S NAME:	CASA @ 63RD AVENUE			
PROJECT ADDRESS:	13125 SW 63 AVENUE PINECREST, FLORIDA 33156			
BUILDING ELEMENT	U-FACTOR	R-VALUE	SHGC	REFLECTANCE
GLAZED FENESTRATION	X.X	N/A	0.XX	N/A
ROOF REFLECTANCE	N/A	N/A	N/A	0.99 SRI
ROOF DECK	N/A	30	N/A	N/A
WALLS (EXTERIOR)	N/A	5	N/A	N/A

#26000522



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ARCHITECTURE INTERIOR DESIGN PLANNING
S E A L

RONEY J. MATEU, FAIA
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G.F. CONSULTING ENGINEERS, INC.
STRUCTURAL ENGINEERING
13170 SW 128 STREET, SUITE 204
MIAMI, FLORIDA 33186

JMM CONSULTING ENGINEERS
MECH., ELEC., PLUMB. ENGINEERING
10251 SUNSET DRIVE, SUITE 103
MIAMI, FLORIDA 33173

CARLAB, INC.
CIVIL ENGINEERING
8730 SW 25 STREET
MIAMI, FLORIDA 33165

CARLOS MAURICIO &
FERNANDA ROCA
MA 2405
13125 SW 63 AVENUE
PINECREST, FLORIDA 33156

CASA @
63RD AVENUE

NEW SINGLE-FAMILY RES.
EU-1 RESIDENTIAL ESTATE

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PHASE
Project Status

FILE NAME:
M:\2405 Casa P+ Fernandez_ARCH\Casa on 63rd and DY.dwg

PROJECT NO:
MA 2405

DRAWN BY:
DY

CHECKED BY:
RJM

ISSUE DATE:
11/14/24

REVISIONS

SHEET TITLE
ROOF CALCULATIONS

SHEET: OF:

A-108A