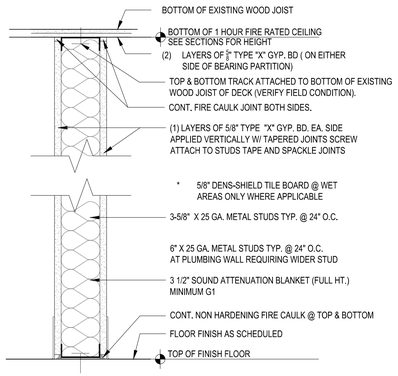
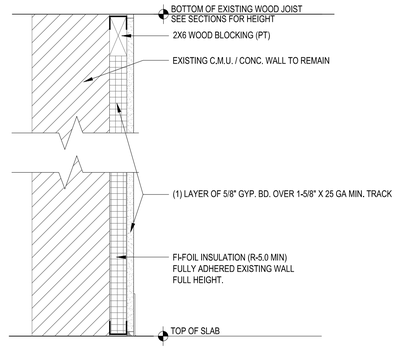
MIAMIBEACH
BUILDING DEPARTMENT
Reviewed For Compliance
BC2013662
08/03/2021 2:54:00 PM

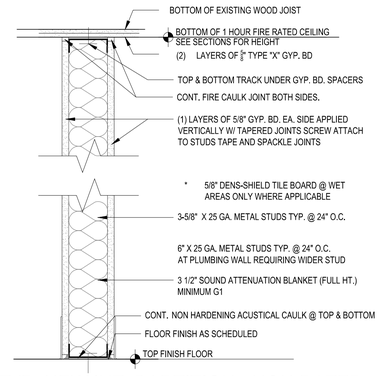


1 TYP. NEW INT. 1 HR F.R. PARTITION (NON LOAD BEARING)
SCALE: N.T.S.

UL DESIGN No. U419 OR OPTIONAL UL No.V439

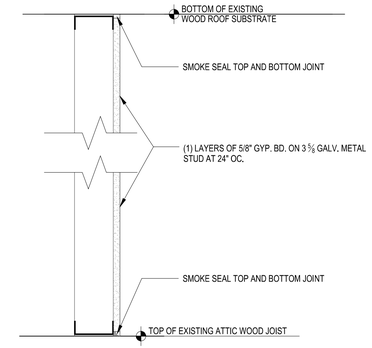


2 EXIST. CMU/CONC. PARTITION (W/ NEW INTERIOR FINISH)
SCALE: N.T.S.

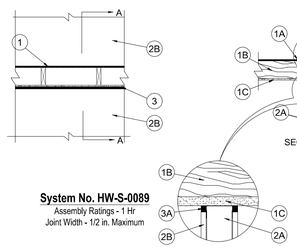


3 TYP. NEW INT. PARTITION - NON RATED (NON LOAD BEARING)
SCALE: N.T.S.

3a SIMILAR TO DETAIL 3 EXCEPT 2 LAYER OF TYPE X GYP. BD. EACH SIDE FOR 2 HOUR FIRE RATINGS.
UL DESIGN No. U419 OR OPTIONAL UL No.V439



10 ATTIC DRAFT STOP DETAIL
SCALE: N.T.S.



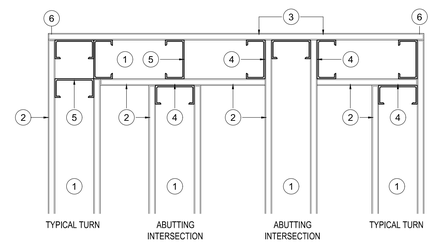
System No. BW-S-0013
Assembly Ratings - 1 Hr or 2 Hr
Joint Width - 5/8 in. Maximum

System No. HW-S-0089
Assembly Ratings - 1 Hr
Joint Width - 1/2 in. Maximum

1. **FLOOR ASSEMBLY -** THE 1 HR FIRE RATED WOOD JOIST, WOOD TRUSS OR COMBINATION WOOD AND STEEL TRUSS FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL L500 SERIES FLOOR-CEILING DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. FLOORING SYSTEM — LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MIXTURE* AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN.
   B. WOOD JOISTS- NOM 10 IN. (254 MM) DEEP (OR DEEPER) LUMBER, STEEL, OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR **STRUCTURAL WOOD MEMBERS*** WITH BRIDGING AS REQUIRED AND WITH ENDS FIRE STOPPED.
   C. GYPSUM BOARD- NOM 4 FT (122 CM) WIDE BY 5/8 IN (16 MM) THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR CEILING DESIGN
2. **WALL ASSEMBLY -** THE 1 HR FIRE RATED GYPSUM BOARD/LUMBER STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. **STUDS -** STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE. STUDS CUT ½ IN. (13 MM) TO 3/4 IN. (19 MM) LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH BOTTOM NESTING IN AND RESTING ON FLOOR RUNNER AND WITH TOP NESTING IN CEILING RUNNER WITHOUT ATTACHMENT. STUD SPACING NOT TO EXCEED 24 IN. (610 MM) OC.
   B. **GYPSUM BOARD* -** GYPSUM BOARD SHEETS INSTALLED TO A MIN TOTAL THICKNESS OF 5/8 IN. (16 MM) AND 1-1/4 IN. (32 MM) ON EACH SIDE OF WALL. WALL TO BE CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, EXCEPT THAT A MAX 1/2" (13 MM) GAP SHALL BE MAINTAINED BETWEEN THE TOP OF THE GYPSUM BOARD AND THE CEILING OF THE FLOOR CEILING ASSEMBLY.
3. **JOINT SYSTEM - FILL, VOID OR CAVITY MATERIAL* - SEALANT**
   A. MAX SEPARATION BETWEEN THE BOTTOM OF THE CEILING AND THE TOP OF THE WALL IS 1/2 IN (13 MM). MIN 5/8 IN (16 MM) THICKNESS OF FILL MATERIAL INSTALLED TO FILL THE JOINT, FLUSH WITH EACH SURFACE F THE WALL.
   B. MAX SEPARATION BETWEEN TOP OF FLOOR AND BOTTOM OF GYPSUM BOARD IS 5/8 IN. (16MM). MIN 1/2 IN. OF FILL MATERIAL INSTALLED ON EACH SIDE OF THE WALL BETWEEN THE BOTTOM OF THE GYPSUM BOARD AND TOP OF THE FLOOR.

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL CERTIFICATION, RESPECTIVELY

4 JOINT DETAIL (TOP AND BOTTOM)
SCALE: N.T.S.

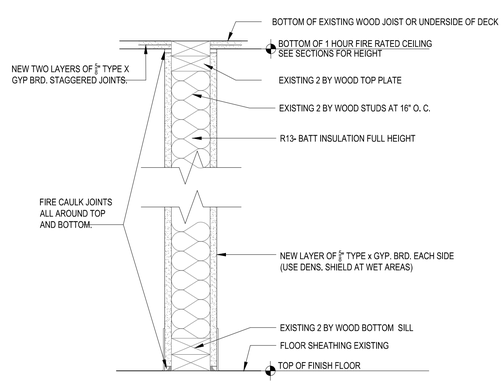


1. METAL RUNNER
2. GYPSUM WALL BOARD
3. IF MULTIPLE LAYERS OF GWB ARE REQUIRED ON ONLY SIDE OF THE INTERSECTION, OFFSET STUDS TO PROVIDE FLUSH FINISH
4. FASTEN STUDS TOGETHER THROUGH ABUTTING SURFACE. SCREW STUD FLANGES TO FLOOR AND CEILING TRACK
5. STUD REQUIRED AT THIS LOCATION REGARDLESS OF SPACING
6. CORNER BEAD

5 PARTITION INTERSECTIONS
SCALE: N.T.S.

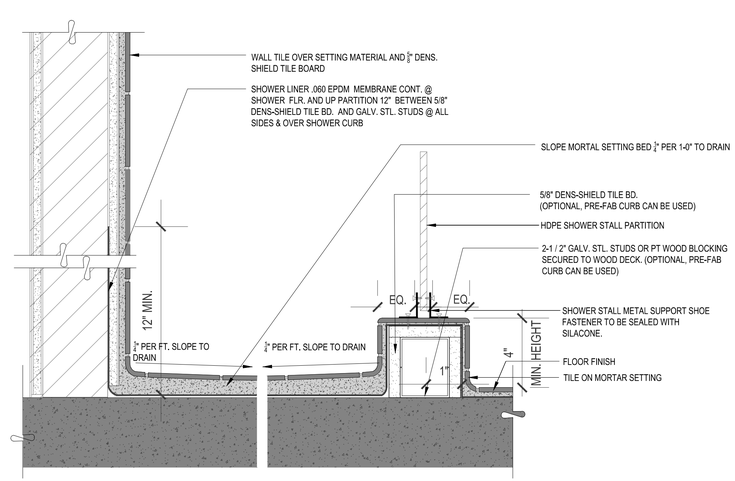
1. APPLY GYPSUM BOARD PANELS PARALLEL TO METAL STUDS. POSITION ALL EDGES OVER STUDS FOR PARALLEL APPLICATION. USE MAXIMUM PRACTICAL LENGTH TO MINIMIZE END JOINTS. STAGGER JOINTS ON OPPOSITE SIDES OF PARTITION. A MINIMUM OF 1/16". PROVIDE A MAXIMUM OF 3/8" GAP AT FLOOR CONDITIONS.
2. ELECTRIC BOXES TO BE OFFSET IN ALL SOUND RATED PARTITIONS AT A MINIMUM OF 24" O.C. PROVIDE ONE STUD (MINIMUM) BETWEEN OFFSET BOXES. INSTALL ACOUSTIC SEALANT AROUND OPENINGS AND FIRE-PROOFING PUTTY AROUND JUNCTION BOXES AT FIRE-RATED PARTITIONS.
3. THE PARTITION WITH THE HIGHEST FIRE RATING WILL RUN CONTINUOUS THROUGH INTERSECTING AND PERPENDICULAR PARTITIONS.
4. ALL VOIDS BETWEEN WOOD DECKING AND TOP PLATE OF RATED PARTITIONS TO BE PACKED TIGHT WITH THERMAFIBER BLANKETS.
5. FIBER BLANKET INSULATION TO BE THERMAFIBER "SAFBS" OR APPROVED EQUAL.
6. STUD GAUGE TO BE A MINIMUM OF 25 IN ACCORDANCE WITH ASTM REQUIREMENTS C-645. HEIGHT OF STUDS TO BE IN ACCORDANCE WITH ANSI REQUIREMENTS AND GYPSUM ASSOCIATION RECOMMENDATIONS.
7. IN-WALL BLOCKING AND BACKING SHALL BE INSTALLED IN ALL ASSEMBLIES AS REQUIRED TO MAINTAIN SPECIFIED FIRE RATINGS; TO COMPLY WITH THE FLORIDA ACCESSIBILITY CODE REQUIREMENTS; AND AS REQUIRED FOR ALL BUILT-IN CASEWORK.
8. FOIL BACKED INSULATION (R-4.7 MIN) TO BE INSTALLED IN FURRING CAVITY AT ALL EXTERIOR CMU AND CONCRETE WALLS (SEE ENERGY CALCULATIONS).

6 GENERAL PARTITION NOTES
SCALE: N.T.S.

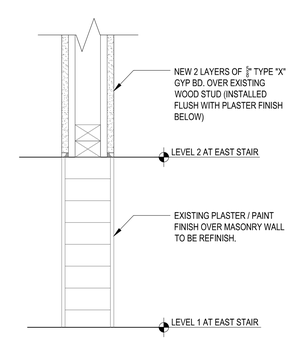


7 EXISTING LOAD BEARING PARTITION (1HOUR FIRE RATED)
UL DESIGN No. U419 OR OPTIONAL UL No. V439
SCALE: N.T.S.

7A SIMILAR TO DETAIL 7 EXCEPT 2 LAYER OF TYPE X GYP. BD. EACH SIDE FOR 2 HOUR FIRE RATINGS.
UL DESIGN No. U419 OR OPTIONAL UL No. V439



8 SHOWER PAN DETAIL
SCALE: 1" = 1'-0"



9 EXIST. WALL AT EAST STAIR
SCALE: N.T.S.

N

Rev.	Date	Rev.	Date
1 GENERAL COMMENTS	11.23.2020		
1D BUILDING DEP. COMMENTS	04.19.2021		

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1967

ALTERATION LEVEL 2

SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name RPA - ENGINEERING
Address 19570 NW 84TH AVE,
Address MIAMI, FLORIDA 330
Tel: Tel: (305) 308.9857
Email Email: RPEREZ@RPA-ENGINEERING.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766
Date: 2021.06.01 09:42:15-04'00'

STATE OF FLORIDA
KOBI KARP
AR0012578
REGISTERED ARCHITECT
Lic. # AR0012578

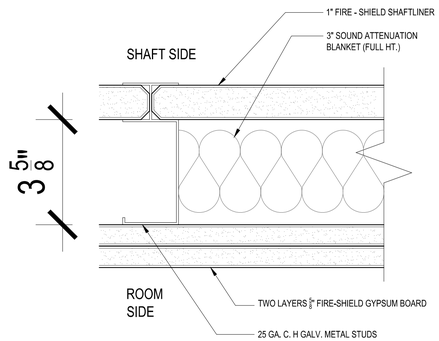
KOBI KARP

REVISION 1E - (05.07.2021)

PARTITION TYPES DETAILS

Date	JUNE, 08, 2020	Sheet No.
Scale	AS INDICATED	A6.00
Project	1967	

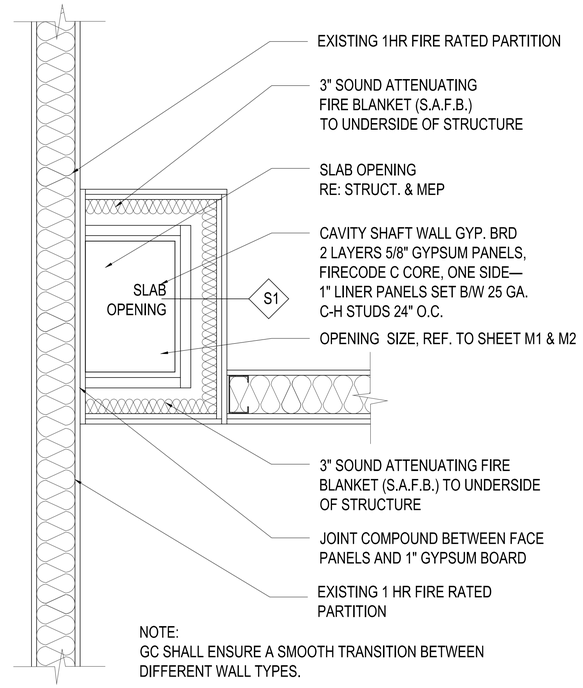
MIAMIBEACH
BUILDING DEPARTMENT
Reviewed For Compliance
BC2013662
08/03/2021 2:54:00 PM



FIRE TEST - 2 HR
BASED ON UL # U423

S1 SHAFT PARTITION - 2HR RATED

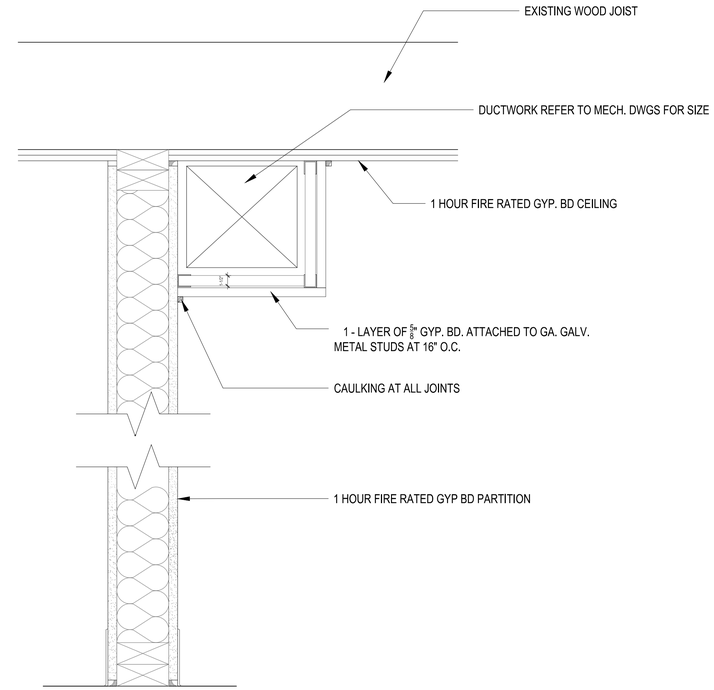
SCALE: 1" = 1'-0"



NOTE:
GC SHALL ENSURE A SMOOTH TRANSITION BETWEEN DIFFERENT WALL TYPES.

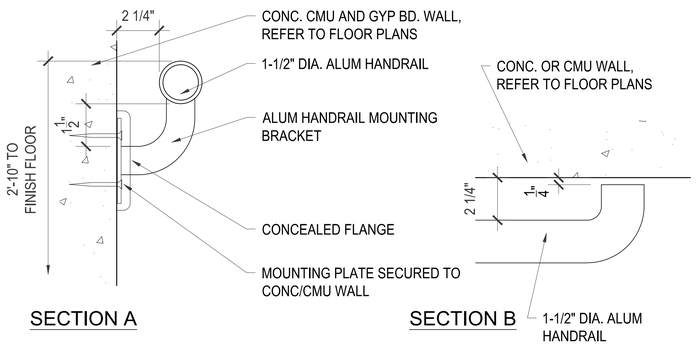
1 2 HR FIRE RATED SHAFT PARTITION DETAIL
UL DESIGN No. U423

SCALE: N.T.S.



3 SOFFIT DETAIL (NON. RATED)

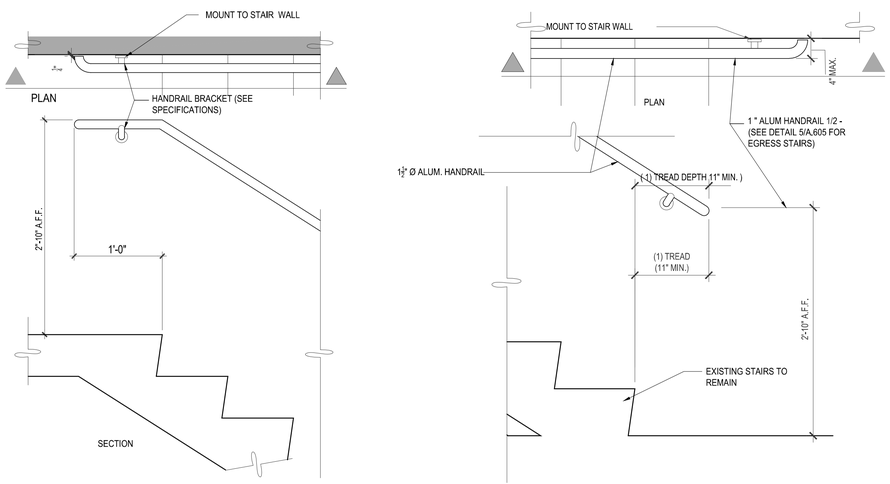
SCALE: 1" = 1'-0"



SECTION A

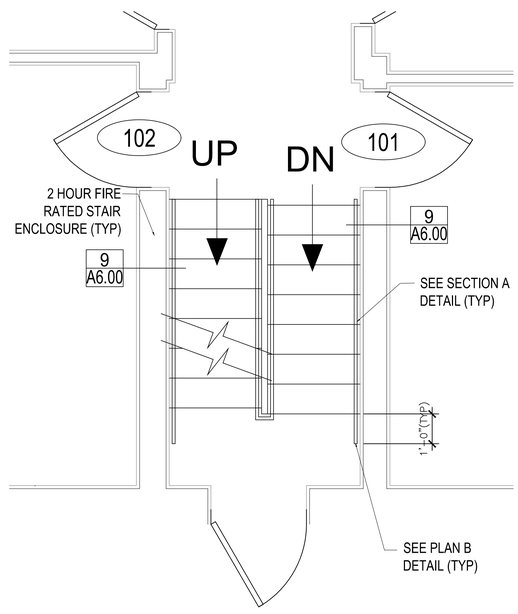
SECTION B

NOTE: INSTALLED HANDRAIL MUST BEAR 500 POUND DEAD LOAD IN ALL DIRECTIONS



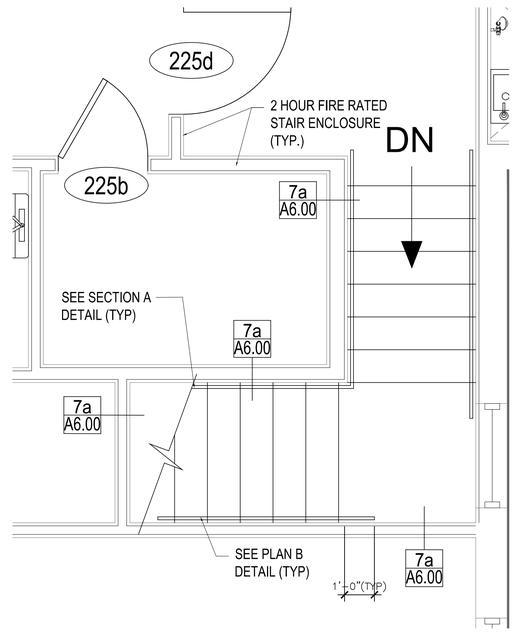
2 HANDRAIL DETAIL AT EAST AND WEST STAIRS (EACH SIDE)

SCALE: N.T.S.



4 EAST ENLARGE STAIR FLOOR PLAN

SCALE: 1/2" = 1'-0"



5 WEST ENLARGE STAIR FLOOR PLAN

SCALE: 1/2" = 1'-0"

NOTE:
1. REFER TO DETAILS ON THIS SHEET
2. EXISTING ENCLOSED STAIR FLIGHT TREADS AND RISERS WITH LANDING TO REMAIN

N

Rev.		Date	Rev.	Date
1	GENERAL COMMENTS	11.23.2020		
1B	FIRE DEPT COMMENTS	03.18.2021		
1D	BUILDING DEP. COMMENTS	04.19.2021		

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1967

ALTERATION LEVEL 2

SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name RPA - ENGINEERING
Address 19570 NW 84TH AVE,
Address MIAMI, FLORIDA 330
Tel: Tel: (305) 308.9857
Email Email: RPEREZ@RPA-ENGINEERING.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

Date: 2021.06.01 09:42:20-04'00'

STATE OF FLORIDA
KOBI KARP
AR0012578
REGISTERED ARCHITECT
KOBI KARP
Lic. # AR0012578

KOBI KARP

REVISION 1E - (05.07.2021)

MISCELLANEOUS DETAILS

1

Date	JUNE, 08, 2020	Sheet No.
Scale	AS INDICATED	A6.01
Project	1967	

DOOR SCHEDULE

FLOOR	#	LOCATION	SIZE (W X H X TH)	DOOR			FRAME		FIRE RATING	THRESHOLD	HRDW R	REMARKS
				MAT'L	FINISH	TYPE	MAT'L	FINISH				
1ST FLOOR	101	ROOM 101	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	102	ROOM 102	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	~~102A~~	~~ROOM 102 PRIVATE BATHROOM~~	~~2'-8" X 7'-0"~~	~~WD~~	~~P~~	~~A~~	~~NONE~~	~~P~~	~~-~~	~~NONE~~	~~02~~	~~BARN DOOR~~
	103	ROOM 103	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	104	ROOM 104	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	~~104A~~	~~ROOM 104 PRIVATE BATHROOM~~	~~2'-8" X 7'-0"~~	~~WD~~	~~P~~	~~A~~	~~NONE~~	~~P~~	~~-~~	~~NONE~~	~~02~~	~~BARN DOOR~~
	105	WOMEN SHOWER (01)	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	07	-
	106	ROOM 106	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	107	LAUNDRY ROOM	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	07	-
	108	ROOM 108	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	109	MEN SHOWERS (01)	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	07	-
	110	ROOM 110	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	111	ROOM 111	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	112	ROOM 112	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	113	ROOM 113	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	114	ROOM 114	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	115	RECEPTION LOBBY DOOR	2'-8" X 7'-0"	WD	P	B	HM	P	45 MIN. (C)	NONE	06	-
	115A	EXITING EAST STAIRS	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	03	ON MAGNETIC DOOR HOLDER
	115B	EXITING NW STAIRS	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	03	
	115C	OFFICE MANAGER FOYER	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	04	-
	116	ROOM 116	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	117	STORAGE CLOSET	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	05	-
2ND FLOOR	201	ROOM 201	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	202	ROOM 202	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	203	ROOM 203	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	204	ROOM 204	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	~~204A~~	~~ROOM 204 PRIVATE BATHROOM~~	~~2'-8" X 7'-0"~~	~~WD~~	~~P~~	~~A~~	~~NONE~~	~~P~~	~~-~~	~~NONE~~	~~02~~	~~BARN DOOR~~
	205	ROOM 205	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	206	ROOM 206	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-

DOOR SCHEDULE

FLOOR	#	LOCATION	SIZE (W X H X TH)	DOOR			FRAME		FIRE RATING	THRESHOLD	HRDW R	REMARKS
				MAT'L	FINISH	TYPE	MAT'L	FINISH				
2ND FLOOR	208	ROOM 208	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	209	MEN SHOWERS (03)	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	07	-
	210	ROOM 210	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	211	MEN SHOWER (02)	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	07	-
	212	ROOM 212	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	213	ROOM 213	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	214	ROOM 214	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	215	ROOM 215	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	216	ROOM 216	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	217	ROOM 217	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	218	ROOM 218	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	219	ROOM 219	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	220	ROOM 220	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	221	ROOM 221	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	222	ROOM 222	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	223	WOMEN SHOWERS (02)	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	07	-
	224	ROOM 224	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	225	HK (02)	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	05	-
	225A	JAN	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	05	-
	225B	HK (01)	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	05	-
	225C	AC	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	05	-
	225D	EXITING NW STAIRS	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	03	ON MAGNETIC DOOR HOLDER
	225E	EXITING EAST STAIRS	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	03	ON MAGNETIC DOOR HOLDER
	226	ROOM 226	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	227	ROOM 227	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	228	ROOM 228	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	229	ROOM 229	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	230	ROOM 230	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-
	231	ROOM 231	2'-8" X 7'-0"	WD	P	A	HM	P	45 MIN. (C)	NONE	01	-

DOOR HARDWARE:

GROUP 01:
- BALL BEARING SPRING HINGES
- ~~DOOR CLOSER~~
- RFID 'TELKONET' GATEWAY ENTRY LOCKSET
- ~~DOOR VIEWER~~
- ~~DOOR GUARD LATCH~~
- SMOKE SEALS
- AUTOMATIC DOOR BOTTOM
- WALL STOP

GROUP 02:
- BARN DOOR HEADER BAR
- DOOR ROLLER GUIDES WITH BUMPER STOP
- DECORATIVE 1" X 10" PULL BAR

GROUP 03:
- BALL BEARING HINGES
- DOOR CLOSER
- ELECTRO MAGNETIC DOOR HOLDER
- PANIC EXIT DEVICE W/ PASSAGE LEVER LATCH
- SMOKE SEALS
- AUTOMATIC DOOR BOTTOM DOORS # 115A, 225E SHALL BE NORMALLY OPEN AND WILL CLOSE IN CASE OF FIRE. THE NEW STAIR TO LOBBY DOOR # 115B LOBBY TO 1ST FLOOR CORRIDOR DOOR # 115 SHALL BE BE NORMALLY CLOSED.

GROUP 04:
- BALL BEARING HINGES
- DOOR CLOSER
- OFFICE ENTRY LEVER LOCKSET
- SMOKE SEALS
- WALL STOP

GROUP 05:
- BALL BEARING HINGES
- DOOR CLOSER
- RFID VING GATEWAY LEVER LOCKSET
- SMOKE SEALS

GROUP 06:
- BALL BEARING HINGES
- DOOR CLOSER
- RFID VING GATEWAY LEVER LOCKSET
- SMOKE SEALS
- AUTOMATIC DOOR BOTTOM

GROUP 07:
- BALL BEARING HINGES
- DOOR CLOSER
- RFID VING GATEWAY LEVER LOCKSET
- SMOKE SEALS
- FLOOR STOP

LEGEND

P	PAINTED
FF	FACTORY FINISHED
GL	GLASS
AL	ALUMINUM
MA	MASONITE
WD	WOOD
HM	HOLLOW METAL
PL	HIGH PRESS PLASTIC LAMINATE / VENEER
FL	FRAMELESS W/ CONCEAL HINGES

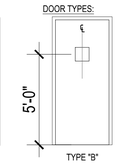
~~NOTE:~~ ~~EXISTING DOORS AND FRAMES ARE TO REMAIN AND ONLY BE PAINTED~~

1. ALL FIRE RATED DOORS SHALL HACE SAFE-CLOSING AND LATCHING HW.
2. ALL INTERIOR DOOR TO HAVE NO MORE THAN $\frac{1}{2}$" TRANSITION AT SILL (U.O.N.)

DOOR TYPES:

TYPE "A"

DOOR TYPES:



TYPE "B"

N

MIAMIBEACH
BUILDING DEPARTMENT
Reviewed For Compliance
BC2013662
08/03/2021 2:54:00 PM

Rev.		Date	Rev.	Date
1	GENERAL COMMENTS	11.23.2020		
1A	FIRE DEPT COMMENTS	02.04.2021		
1D	BUILDING DEP. COMMENTS	04.19.2021		

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1967

ALTERATION LEVEL 2

SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name RPA - ENGINEERING
Address 19570 NW 84TH AVE.,
Address MIAMI, FLORIDA 330
Tel: Tel: (305) 308.9857
Email Email: RPEREZ@RPA-ENGINEERING.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

Date: 2021.06.01 09:42:25-04'00'

STATE OF FLORIDA
KOBI KARP
AR0012578
REGISTERED ARCHITECT

Lic. # AR0012578

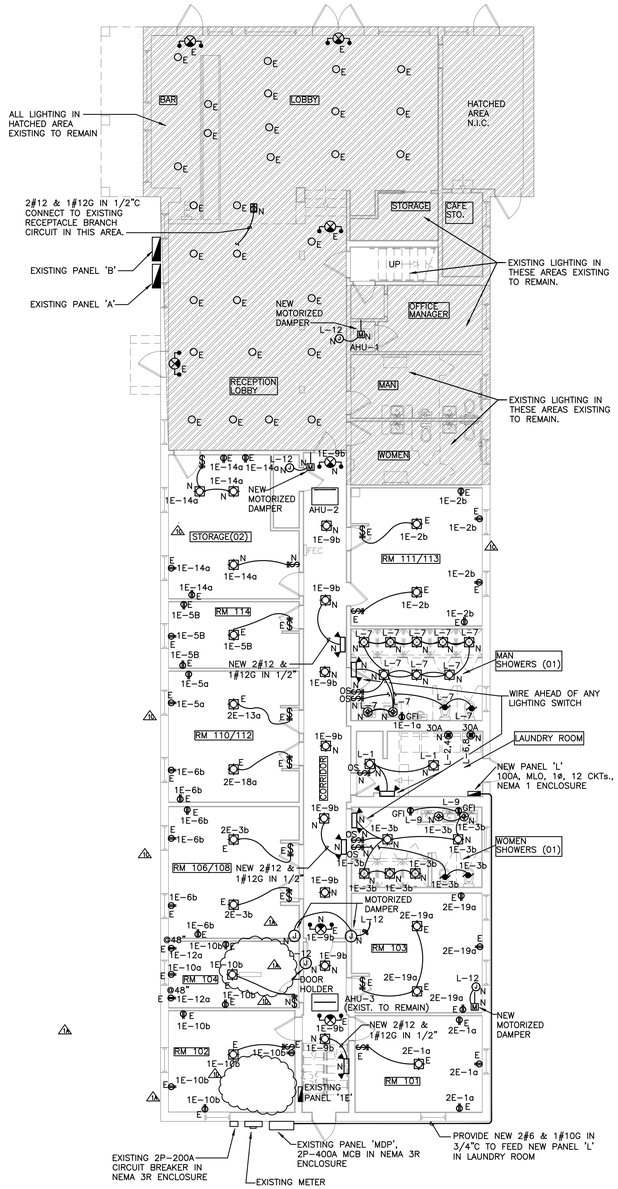
KOBI KARP

REVISION 1E - (05.07.2021)

DOOR SCHEDULE

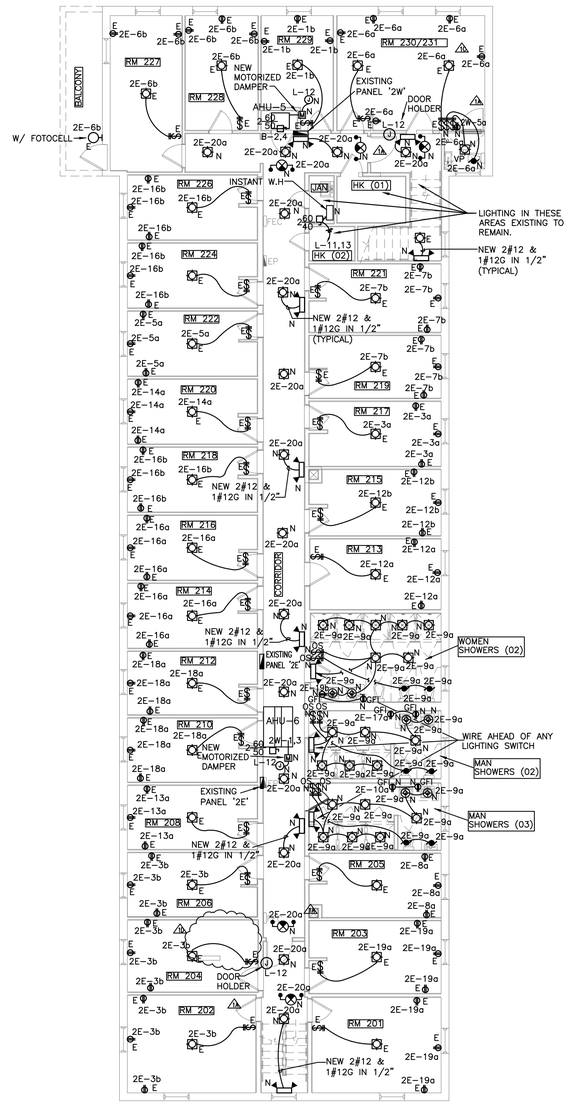
Date	JUNE. 08, 2020	Sheet No.
Scale	AS INDICATED	A8.00
Project	1967	

MIAMIBEACH
BUILDING DEPARTMENT
Reviewed For Compliance
BC2013662
08/03/2021 2:54:00 PM



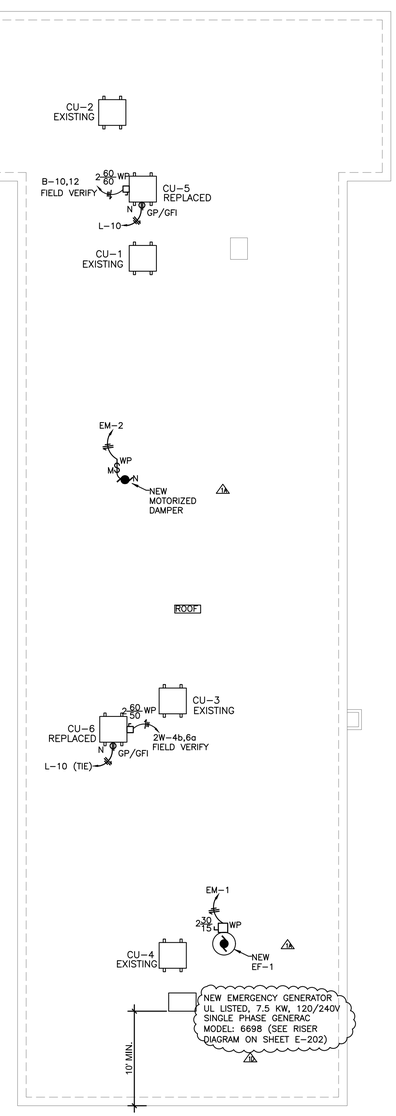
1 LEVEL ONE - PROPOSED ELECTRICAL PL;AN

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



2 LEVEL TWO - PROPOSED ELECTRICAL PLAN

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



NOTE:

INTERLOCK EF-1 AND MOTORIZED DAMPER WITH EXISTING FA PANEL.

3 PROPOSED ELECTRICAL ROOF PLAN

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

ELECTRICAL DEMOLITION NOTES:

1. THE NATURE OF THIS REMODELING TYPE PROJECT POSES SPECIAL UNFORESEEN CONDITIONS FOR THE DESIGN ENGINEER AS WELL AS THE ELECTRICAL CONTRACTOR. EVERY EFFORT HAS BEEN MADE TO SHOW AND VERIFY, WHERE POSSIBLE, THE LOCATION OF EXISTING CIRCUITS. THE MAJOR PORTION OF THE CIRCUITS ARE SHOWN ON THE DRAWINGS, HOWEVER DEVIATIONS MAY BECOME EVIDENT AND CHANGES MAY OCCUR AS THE JOB PROGRESSES.
2. CONTRACTOR WILL BE RESPONSIBLE OF COORDINATING HIS DEMOLITION WORK WITH OTHER TRADES AND TO PROTECT FROM DAMAGE EXISTING CIRCUITS USED FOR FUTURE CONNECTIONS.
3. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING CIRCUITS BEFORE COMMENCING TO WORK AND MAKE MODIFICATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER.
4. EXISTING CIRCUITS SERVING AREAS NOT COVERED BY THIS CONTRACT, BUT IN SERVICE AT THIS TIME, SHALL NOT BE INTERRUPTED UNLESS IT IS A TEMPORARY INTERRUPTION FULLY COORDINATED WITH THE OWNER.

ELECTRICAL NOTE:

1. CLASSIFICATION STRUCTURE TYPE III. USE OF CM CABLE (ROMEX) IS ALLOWED

DOT NOT SEND THIS SET OF ELECTRICAL PLANS FOR CONSTRUCTION PRICE UNTIL BEEN APPROVED FOR THE BUILDING DEPARTMENT.

ELECTRICAL SCOPE OF WORK

1. PROVIDE NEW ELECTRICAL PANEL 'L' AT LAUNDRY ROOM TO SERVE LAUNDRY EQUIPMENT AND NEW LIGHT FIXTURES AND AND RECEPTACLES AT SHOWER AREAS.
2. PROVIDE NEW EMERGENCY GENERATOR ON ROOF FOR NEW EXHAUST FAN FOR SMOKE EVACUATION SYSTEM.
3. PROVIDE NEW DOOR HOLDERS FOR THE NEW SMOKE EVACUATION SYSTEM.
4. PROVIDE CONTROL MODULES FOR SHUTDOWN A/C IN FIRE EVENT.
5. SHOW ON PLANS ALL EXISTING LIGHT FIXTURES AND RECEPTACLES IN THE BUILDING AREAS.

CONSTRUCTION TYPE III. ALLOWING THE USE OF ROMEX.

Ricardo N Lopez
Digitally signed by Ricardo N Lopez
Date: 2021.04.28 08:34:58 -04'00'

RICARDO LOPEZ, PE
CONSULTING ENGINEER
3461 SE 1st STREET
HOMESTEAD
FLORIDA 33033
TEL. 786 200 8836
PE # 59400

SEAL
RICARDO N. LOPEZ
LICENSE
No. 59400
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Rev.	Date	Rev.	Date
1 NOT USED			
2 B.D.C./ENG REV.	02/04/2021		
3 NOT USED			
4 ZONING COMMENT	04/01/2021		
5 B.D.C. COMMENT	04/19/2021		

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SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

KOBI KARP
Lic. # AR0012578

KOBI KARP

PROP. ELECT. LEVEL 1, 2 & ROOF

Date	JUNE 08, 2020	Sheet No.
Scale	AS INDICATED	E-101
Project	1967	

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BUILDING DEPARTMENT
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EXISTING PANEL "MDP"

TYPE : GE
MOUNTING : SURFACE
LOCATION : OUTSIDE EAST WALL
10,000 A.I.C.
NEMA 3R
MAINS : 2P–400A MCB
BUS RATING : 400 AMP
VOLTAGE : 120/240V–1PHASE–3WIRE

DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A B	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION
NEW PANEL 'EM' THRU ATS	#10–3/4	1226	2 / 30	1		2				SPACE
				3		4				SPACE
SPACE				5		6				SPACE
SPACE				7		8				SPACE
SPACE				9		10				SPACE
SPACE				11		12				SPACE
SPACE				13		14	2 / 40	2500	EXISTING	EXISTING LOAD
SPACE				15		16				
SPACE				17		18				SPACE
SPACE				19		20				SPACE
SPACE				21		22	2 / 60	11760	#6–3/4"	NEW PANEL 'L'
SPACE				23		24				
SPACE				25		26	2 / 40	1200	EXISTING	EXISTING LOAD
SPACE				27		28				
SPACE				29		30	2 / 40			SPARE
SPACE				31		32				
EXISTING LOAD	EXISTING	100	1 / 20	33		34				
EXISTING LOAD	EXISTING	100	1 / 20	35		36	2 / 125	21950	EXISTING	PANEL '2E'
EXISTING LOAD	EXISTING	100	1 / 20	37		38				
APPLIANCES	EXISTING	1500	1 / 20	39		40	2 / 100	4700	EXISTING	PANEL 'A'
OFFICE	EXISTING	100	1 / 20	41		42				
PANEL '1E'	EXISTING	26510	2 / 200							

LOAD CALCULATION PANEL 'MDP'
CONTINUOUS LOAD AT 125% = 400 VA X 1.25 = 500 VA
NON CONTINUOUS LOAD AT 100% = 70120 VA
TOTAL DEMANDED LOAD = 70620 VA
TOTAL DEMAND AMPS = 294 AMPS PER PHASE

LOAD CALCULATION TOTAL SERVICE
TOTAL DEMANDED LOAD PANEL 'MDP' = 70620 VA
TOTAL DEMANDED LOAD PANEL 'B' = 23700 VA
TOTAL DEMANDED LOAD SERVICE = 94320 VA
TOTAL AMPS SERVICE = 393 AMPS

NOTE:
PANEL 'EM' LOAD HAS NOT BEEN INCLUDE IN THE CALCULATIONS BECAUSE IT ONLY OCCURS IN THE FIRE ALARM EVENT..

EXISTING PANEL "1E"

TYPE : EXISTING
MOUNTING : FLUSH
LOCATION : 1ST FL EAST
10,000 A.I.C.
MAINS : M.L.O.
BUS RATING : 200 AMP
VOLTAGE : 120/240V–1PHASE–3WIRE

DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A B	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION
NEW GFI BATH	#12–1/2"	(1)	1 / 20	1a		2a	1 / 20	100	EXISTING	EXISTING LIGHTING LOAD
SPARE		2500	2 / 30	1b		2b	1 / 20	100	EXISTING	RM 101 LT & REC.
				3a		4a	1 / 20	100	EXISTING	EXISTING LIGHTING LOAD
SPARE	EXISTING		1 / 20	3b		4b	1 / 20	100	EXISTING	EXISTING LIGHTING LOAD
RM 109 LT & REC.	EXISTING	100	1 / 20	5a		6a	1 / 20	100	EXISTING	EXISTING LIGHTING LOAD
RM 109/110 LT & REC.	EXISTING	100	1 / 20	5b		6b	1 / 20	100	EXISTING	RM 108/109 LT & REC.
EXISTING LIGHTING LOAD	EXISTING	100	1 / 20	7a		8a	1 / 20	100	EXISTING	RM 109 REC.
EXISTING LIGHTING LOAD	EXISTING	100	1 / 20	7b		8b	1 / 20		EXISTING	SPARE
EXISTING LIGHTING LOAD	EXISTING	100	1 / 20	9a		10a	1 / 20	100	EXISTING	RM 105 REC.
CORRIDOR 1ST FL	EXISTING	100	1 / 20	9b		10b	1 / 20	100	EXISTING	EXISTING LIGHTING LOAD
AHU–3	EXISTING	4200	2 / 30	11		12a	1 / 20	100	EXISTING	EXISTING LIGHTING LOAD
				13		12b	1 / 20	100	EXISTING	OFFICE REC.
						14a	1 / 20	100	EXISTING	EXISTING LIGHTING LOAD
SPARE		1500	1 / 20	15a		14b	1 / 20	100	EXISTING	OFFICE LTS.
EXISTING LOAD	EXISTING	1500	2 / 20	15b		16	2 / 60	11800	SPARE	
				17a		18				
AHU–2	EXISTING	2500	2 / 20	17b						
				19		20	1 / 20	100	#12–1/2"	GFI BATH REC.

LOAD CALCULATION PANEL '1E'
CONTINUOUS LOAD AT 125% = 2000 VA X 1.25 = 2510 VA
NON CONTINUOUS LOAD AT 100% = 24000 VA
TOTAL DEMANDED LOAD = 26510 VA
TOTAL DEMAND AMPS = 110 AMPS PER PHASE

EXISTING PANEL "2W"

TYPE : EXISTING
MOUNTING : FLUSH
LOCATION : CORRIDOR 2ND FLOOR WEST
10,000 A.I.C.
MAINS : M.L.O.
BUS RATING : 125 AMP
VOLTAGE : 120/240V–1PHASE–3WIRE

DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A B	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION
AHU–6	EXISTING	8150	2 / 100	1		2a	1 / 20	100	EXISTING	EXISTING LOAD
				3		2b	1 / 20	100	EXISTING	EXISTING LOAD
						4a	1 / 20	100	EXISTING	EXISTING LOAD
						4b	2 / 50	2000	EXISTING	CU–6
NEW GFI BATH REC.	#12–1/2"	100	1 / 20	5a		6a				
EXISTING LOAD	EXISTING	1800	2 / 30	5b		6b	2 / 50	2000	EXISTING	EXISTING LOAD
				7a		8a				
EXISTING LOAD	EXISTING	1800	1 / 20	7b		8b	1 / 20	100	EXISTING	EXISTING LOAD

LOAD CALCULATION PANEL '2W'
CONTINUOUS LOAD AT 125% = 500 VA X 1.25 = 625 VA
NON CONTINUOUS LOAD AT 100% = 13600 VA
TOTAL DEMANDED LOAD = 14225 VA
TOTAL DEMAND AMPS = 59 AMPS PER PHASE

EXISTING PANEL "2E"

TYPE : EXISTING
MOUNTING : FLUSH
LOCATION : CORRIDOR 2ND FLOOR
10,000 A.I.C.
MAINS : M.L.O.
BUS RATING : 200 AMP
VOLTAGE : 120/240V–1PHASE–3WIRE

DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A B	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION
RM 104 LTS.	EXISTING	100	1 / 20	1a		2	2 / 100	14225	EXISTING	SUB PANEL '2W'
RM 211 LT & REC.	EXISTING	100	1 / 20	1b						
RM 207 LT & REC.	EXISTING	100	1 / 20	3a		4				
RM 225/226 LT & REC.	EXISTING	100	1 / 20	3b						
EXISTING LIGHTING LOAD	EXISTING	100	1 / 15	5a		6a	1 / 20	100	EXISTING	RM 210 LT & REC.
EXISTING LIGHTING LOAD	EXISTING	100	1 / 15	5b		6b	1 / 20	100	EXISTING	RM 218 LT & REC.
EXISTING LIGHTING LOAD	EXISTING	100	1 / 15	7a		8a	1 / 20	100	EXISTING	RM 203 LT & REC.
RM 218 LT & REC.	EXISTING	100	1 / 15	7b		8b	1 / 20	100	EXISTING	EXISTING LIGHTING LOAD
BATH LTS..	EXISTING	100	1 / 15	9a		10a	1 / 20	100	#12–1/2"	NEW GFI BATH
EXISTING LIGHTING LOAD	EXISTING	100	1 / 15	9b		10b	1 / 20	100	EXISTING	EXISTING LIGHTING LOAD
EXISTING LIGHTING LOAD	EXISTING	100	1 / 15	11a		12a	1 / 15	100	EXISTING	RM 205/206 LT & REC.
EXISTING LIGHTING LOAD	EXISTING	100	1 / 15	11b		12b	1 / 15	100	EXISTING	RM 206 LT & REC.
RM 204/109 LT & REC.	EXISTING	100	1 / 15	13a		14a	1 / 15	100	EXISTING	RM 218/STORAGE
EXISTING LIGHTING LOAD	EXISTING	100	1 / 15	13b		14b	1 / 15	100	EXISTING	RM 219/STORAGE
EXISTING LIGHTING LOAD	EXISTING	100	1 / 15	15a		16a	1 / 15	100	EXISTING	RM 219 REC.
EXISTING LIGHTING LOAD	EXISTING	100	1 / 15	15b		16b	1 / 15	100	EXISTING	RM 215 LT & REC.
NEW GFI BATH	#12–1/2"	100	1 / 20	17a		18a	1 / 20	100	EXISTING	RM 222/223 LT & REC.
EXISTING LIGHTING LOAD	EXISTING	1800	1 / 30	17b		18b	1 / 20	100	EXISTING	RM 221 LT & REC.
RM 103 LT & REC.	EXISTING	1800	1 / 30	19a		20a	1 / 20	100	EXISTING	CORRIDOR 2ND FL
NEW GFI BATH	#12–1/2"	100	1 / 20	19b		20b	1 / 20	100	EXISTING	EXISTING LIGHTING LOAD

LOAD CALCULATION PANEL '2E'
CONTINUOUS LOAD AT 125% = 3300 VA X 1.25 = 4125 VA
NON CONTINUOUS LOAD AT 100% = 17825 VA
TOTAL DEMANDED LOAD = 21950 VA
TOTAL DEMAND AMPS = 91 AMPS PER PHASE

EXISTING PANEL "A"

TYPE : EXISTING
MOUNTING : FLUSH
LOCATION : OUTSIDE SOUTH WALL ESAT
10,000 A.I.C.
NEMA 3R
MAINS : M.L.O.
BUS RATING : 125 AMP
VOLTAGE : 120/240V–1PHASE–3WIRE

DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A B	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION
EXISTING LOAD	EXISTING	100	1 / 20	1a		2	1 / 20	200	EXISTING	EXISTING LOAD
EXISTING LOAD	EXISTING	100	1 / 20	1b						
EXISTING LOAD	EXISTING	100	1 / 20	3a		4a	1 / 20	100	EXISTING	EXISTING LOAD
EXISTING LOAD	EXISTING	100	1 / 20	3b		4b	1 / 20	100	EXISTING	EXISTING LOAD
EXISTING LOAD	EXISTING	200	1 / 20	5		6a	1 / 20	100	EXISTING	EXISTING LOAD
						6b	1 / 20	100	EXISTING	EXISTING LOAD
EXISTING LOAD	EXISTING	2000	2 / 30	7		8a	1 / 20	100	EXISTING	REC. STORAGE
						8b	1 / 20	100	EXISTING	EXISTING LOAD
				9		10a	1 / 20	100	EXISTING	EXISTING LOAD
						10b	1 / 20	800	EXISTING	REFRIIG. STORAGE
EXISTING LOAD	EXISTING	100	1 / 20	11		12	1 / 20	100	EXISTING	EXISTING LOAD

LOAD CALCULATION PANEL 'A'
CONTINUOUS LOAD AT 125% = 1200 VA X 1.25 = 1500 VA
NON CONTINUOUS LOAD AT 100% = 3200 VA
TOTAL DEMANDED LOAD = 4700 VA
TOTAL DEMAND AMPS = 19 AMPS PER PHASE

EXISTING PANEL "B"

TYPE : EXISTING
MOUNTING : FLUSH
LOCATION : OUTSIDE SOUTH WALL WEST
10,000 A.I.C.
NEMA 3R
MAINS : M.L.O.
BUS RATING : 125 AMP
VOLTAGE : 120/240V–1PHASE–3WIRE

DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A B	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION
EXISTING LOAD	EXISTING	100	1 / 20	1a		2	2 / 50	8350	#8–3/4"	NEW AHU–5
EXISTING LOAD	EXISTING	100	1 / 20	1b						
EXISTING LOAD	EXISTING	1500	1 / 30	3a		4				
EXISTING LOAD	EXISTING	1200	2 / 20	3b						
				5a		6a	1 / 20	100	EXISTING	EXISTING LOAD
EXISTING LOAD	EXISTING	1200	2 / 20	5b		6b	1 / 30	1800	EXISTING	EXISTING LOAD
				7a		8a				
EXISTING LOAD	EXISTING	100	1 / 15	7b		8b	1 / 20	100	EXISTING	EXISTING LOAD
EXISTING LOAD	EXISTING	100	1 / 20	9a		10	2 / 60	4400	EXISTING	CU–5
A/C–1	EXISTING	4500	2 / 50	9b						
				11a		12				
EXISTING LOAD	EXISTING	100	1 / 30	11b						

LOAD CALCULATION PANEL 'B'
CONTINUOUS LOAD AT 125% = 600 VA X 1.25 = 750 VA
NON CONTINUOUS LOAD AT 100% = 22950 VA
TOTAL DEMANDED LOAD = 23700 VA
TOTAL DEMAND AMPS = 98 AMPS PER PHASE

NEW PANEL "L"

TYPE : AQ, G.E.
MOUNTING : SURFACE
LOCATION : LOUNDRY
10,000 A.I.C.
MAINS : M.L.O.
BUS RATING : 100 AMP
VOLTAGE : 120/240V–1PHASE–3WIRE

DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A B	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION
LIGHTING	#12–1/2"	100	1 / 20	1		2	2 / 30	4500	#10–1/2"	DRYER
SPARE	#12–1/2"	1200	1 / 20	3		4				
SPARE	#12–1/2"	1200	1 / 20	5		6	2 / 30	4500	#10–1/2"	DRYER
MEN SHOWER LTS.	#12–1/2"	100	1 / 20	7		8				
MEN SHOWER GFI	#12–1/2"	100	1 / 20	9		10	1 / 20	360	#12–1/2"	ROOF RECEPT.
INSTANT W.H.	#8–3/4"	7200	2 / 40	11		12	1 / 20	300	#12–1/2"	MOTOR DAMPER
				13		14				
				15		16				
				17		18				

LOAD CALCULATION PANEL 'L'
CONTINUOUS LOAD AT 125% = 0 VA X 1.25 = 0 VA
NON CONTINUOUS LOAD AT 100% = 11760 VA
TOTAL DEMANDED LOAD = 11760 VA
TOTAL DEMAND AMPS = 49 AMPS PER PHASE

NEW PANEL "EM" BUILT-IN GENERATOR

TYPE : AQ, G.E. (OR EQUIVALENT)
MOUNTING : SURFACE
LOCATION : EXTERIOR WALL
10,000 A.I.C.
MAINS : M.L.O.
BUS RATING : 100 AMP
VOLTAGE : 120/240V–1PHASE–3WIRE

DESCRIPTION	WIRE & COND. SIZE	LOAD (V.A.)	POLE / TRIP	CKT. No.	A B	CKT. No.	POLE / TRIP	LOAD (V.A.)	WIRE & COND. SIZE	DESCRIPTION
EF–1	#12–1/2"	1176	1 / 20	1		2	1 / 15	50	#14–1/2"	MOTORIZED DAMPER
SPACE				3		4				SPACE
SPACE				5		6				SPACE
SPACE				7		8				SPACE

LOAD CALCULATION PANEL 'EM'
CONTINUOUS LOAD AT 125% = 0 VA X 1.25 = 0 VA
NON CONTINUOUS LOAD AT 100% = 1226 VA
TOTAL DEMANDED LOAD = 1226 VA
TOTAL DEMAND AMPS = 5 AMPS PER PHASE

PANELS NOTES:

1. ELECTRICAL CONTRACTOR SHALL VERIFY THE SIZE OF EACH BRANCH CIRCUIT CONDUCTOR, IN EACH PANEL, TO BE SURE IT IS THE ADEQUATE FOR THE CORRESPONDENT BREAKER SIZE.
2. ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL BRANCH CIRCUIT IN EACH PANEL AND UPDATE THE CIRCUIT DIRECTORY LIST.

Ricardo N Lopez
Digitally signed by Ricardo N Lopez
Date: 2021.04.28 08:35:32 -04'00'

RICARDO LOPEZ, PE
CONSULTING ENGINEER
3461 SE 1st STREET
HOMESTEAD
FLORIDA 33033
TEL. 786 200 8836
PE # 59400

SEAL
RICARDO N. LOPEZ
LICENSE
No. 59400
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Rev.	Date	Rev.	Date
1 NOT USED			
2 B.D.C./ENG REV. 02/04/2021			
3 NOT USED			
4 NOT USED			
5 B.D.C. COMMENT 04/19/2021			

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SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

KOBI KARP
Lic. # AR0012578

ELECTRICAL PANELS

Date	JUNE 08, 2020	Sheet No.
Scale	AS INDICATED	E-201
Project	1967	

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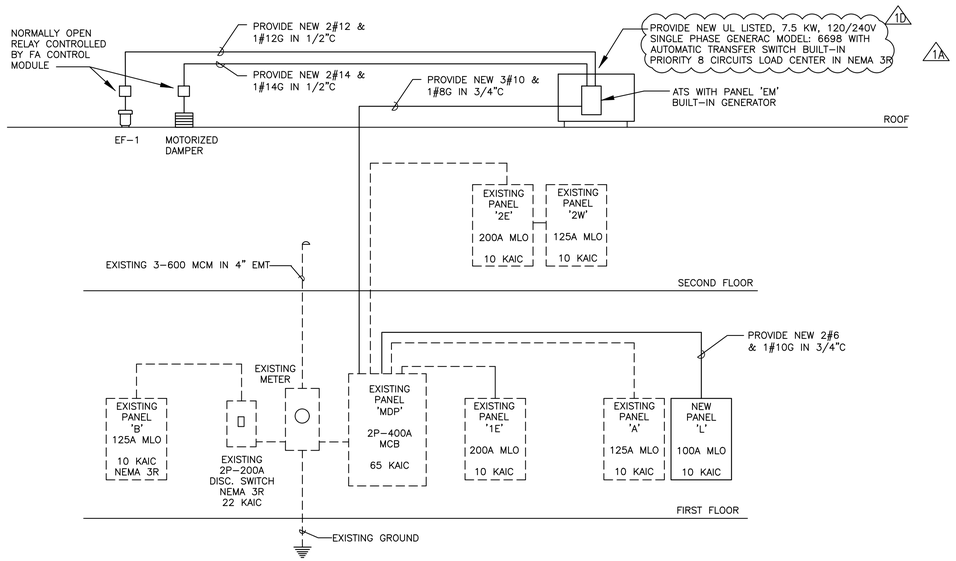
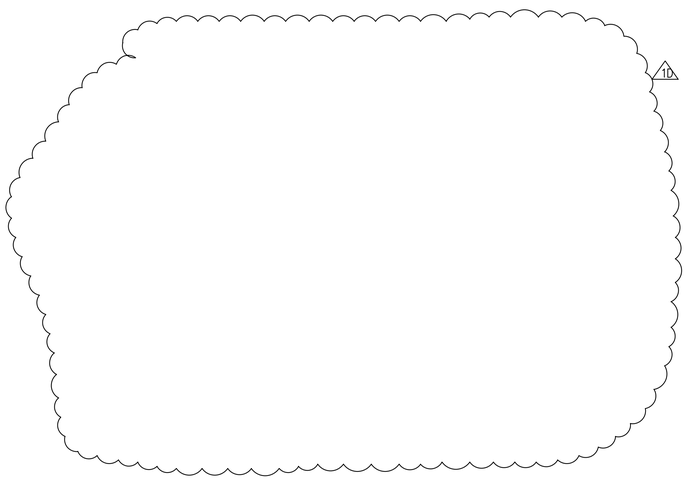


ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.

DENOTE EXISTING
DENOTE NEW



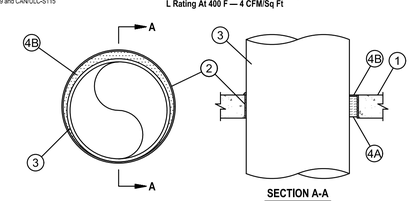
ELECTRICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MTD LIGHT FIXTURE	J	ELECTRICAL JUNCTION BOX
	RECESSED MOUNTED LIGHT FIXTURE	2 30/20	DISCONNECT SWITCH 2=POLE, 30=FRAME, 20=FUSE
	GENERAL DOWNLIGHT		ELECTRICAL FAN MOTOR
	JUNCTION BOX FOR DECORATIVE LIGHTING		ELECTRICAL PANEL
	EXIT SIGN/EMERGENCY LIGHT COMBINATION W/ 90 MINUTES BATTERY BACKUP	GFI	GROUND FAULT INTERRUPTION
	EMERGENCY LIGHT W/ 90 MINUTES BATTERY BACKUP	WP	WATER PROOF
OS	TOGGLE SWITCH, SINGLE POLE, 20 A OS DENOTE "OCCUPANCY SENSOR"	C	CONDUIT
	DUPLEX RECEPTACLE, 20A, 120V WALL MTD. AT 18" A.F.F.	E	EXISTING
	DUPLEX RECEPTACLE, 20A, 120V WALL MTD. AT 48" A.F.F.	N	NEW
		M	MOTORIZED DAMPER

CLASSIFIED c UL us
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. C-AJ-1226

F Rating — 3 Hr
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/Sq Ft
L Rating At 400 F — 4 CFM/Sq Ft



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in.
2. Metallic Sleeve — (Optional) Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. above floor or beyond both surfaces of wall.
2A. Sheet Metal Sleeve — (Optional) Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.
2B. Sheet Metal Sleeve — (Optional) - Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.
3. Through-Penetrant — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:
   A. Steel Pipe — Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit — Nom 6 in. diam (or smaller) steel conduit.
   F. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT).
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

HILTI
Hilti Firestop Systems

ELECTRICAL GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS FOR EXACT LOCATION OF EQUIPMENT. THESE DRAWINGS ARE NOT INTENDED TO SHOW EVERY MINOR DETAIL. HOWEVER, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION PER CODE.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND SHALL COMPLY WITH ALL LOCAL RULES AND ORDINANCES.
3. ALL MATERIAL SHALL BE NEW AND SHALL BEAR UL LABEL WHERE APPLICABLE. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE INSTALLATION. ALL MOUNTING HARDWARE AND WIRING HARDWARE SHALL BE FURNISHED BY THE CONTRACTOR.
4. CIRCUITS SHOWN ON THESE PLANS ARE SYMBOLICALLY SHOWN TO DETERMINE LOAD DATA AND EQUIPMENT SIZES. THE CONTRACTOR SHALL PHYSICALLY PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS. THE LOADS SHALL BE BALANCED THROUGHOUT. THE CONTRACTOR SHALL ENSURE THAT NEUTRAL WIRES AND EQUIPMENT GROUND WIRES ARE INSTALLED WHERE EVER APPLICABLE.
5. THE CONTRACTOR SHALL COORDINATE WITH THE POWER UTILITY TO OBTAIN PERMANENT POWER IN ACCORDANCE WITH THESE DRAWINGS. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE POWER UTILITY TO SCHEDULE THE INSTALLATION OF PERMANENT POWER SO THAT DELAYS ARE AVOIDED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE POWER UTILITY EARLY ON TO IDENTIFY ANY ISSUES AFFECTING PERMANENT POWER SERVICE AND TO WORK TOWARDS RESOLVING ANY ISSUES REGARDING PERMANENT SERVICE.
6. IF ANY OR ALL OF THE UTILITIES (ELECTRICAL, TELEPHONE, CATV) ARE EXISTING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE EXISTING SYSTEMS PRIOR TO BID. THE CONTRACTOR SHALL TRACE DOWN ALL CIRCUITS AND WIRING AND SHALL VERIFY THAT CAPACITY IS AVAILABLE FOR THE SCOPE OF THE PROJECT. THE CONTRACTOR SHALL FIELD INSPECT ALL EXISTING EQUIPMENT AND SHALL ENSURE THAT ALL RATINGS, FUSES, ENCLOSURES, ETC. ARE PROPER FOR THE SCOPE OF THE PROJECT. THE CONTRACTOR SHALL INSPECT ANY EQUIPMENT, WIRING ETC. THAT IS REUSED AND SHALL GUARANTEE THE PERFORMANCE OF SUCH EQUIPMENT FOR ONE YEAR. THE CONTRACTOR SHALL REPLACE ANY EQUIPMENT THAT IS DAMAGED OR IN POOR CONDITION. A LIST OF EQUIPMENT IDENTIFIED FOR REPLACEMENT SHALL BE PROVIDED TO THE OWNER (OR THE OWNER'S REPRESENTATIVE) AND THE ENGINEER PRIOR TO REPLACEMENT.
7. THE CONTRACTOR SHALL THOROUGHLY REVIEW THESE DRAWINGS AND SHALL VISIT AND BECOME FAMILIAR WITH THE JOB SITE AND ALL EXISTING CONDITIONS PRIOR TO BID. ANY QUESTIONS, COMMENTS, DISCREPANCIES OR PERCEIVED AMBIGUITIES SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO BID.
8. ELECTRICAL DESIGN IS BASED UPON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL REVIEW NAMEPLATE DATA AND MANUFACTURER SUPPLIED LITERATURE FOR ALL PIECES OF EQUIPMENT PRIOR TO ROUGH ELECTRICAL WIRING. THE CONTRACTOR SHALL CHECK ALL EQUIPMENT FOR PROPER VOLTAGE, PHASE AND AMP RATING PRIOR TO INSTALLATION. THE CONTRACTOR SHALL CONTACT ENGINEER PRIOR TOO ANY FIELD ADJUSTMENTS.
9. ALL CONDUCTORS SHALL BE COPPER.
10. ALL PANELS SHALL BE CLEARLY LABELED ON THE OUTSIDE FOR QUICK AND EASY IDENTIFICATION. ALL CIRCUITS IN ALL PANELS SHALL BE CLEARLY IDENTIFIED AND SHALL APPEAR WITH COMPLETE INFORMATION (DESCRIPTION OF CIRCUIT, BREAKER SIZE, NUMBER OF POLES AND BREAKER POSITION NUMBERS) ON THE PANEL DIRECTORIES. IN ADDITION, THE VOLTAGE, PHASE AND AMP RATING OF THE PANEL SHALL CLEARLY BE IDENTIFIED ON THE INSIDE DOOR. THE ABOVE APPLIES FOR ANY AND ALL EXISTING TO REMAIN PANEL BOARDS AND CIRCUITS.
11. PLANS SHOWING AS-BUILT CHANGES SHALL BE DELIVERED TO THE OWNERS REPRESENTATIVE UPON COMPLETION OF WORK.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE THIS INSTALLATION IN COMPLIANCE WITH ALL FIRE PREVENTION CODES SUPERCEDING ALL DRAWINGS, SPECIFICATIONS AND NOTES. THE CONTRACTOR SHALL COMMUNICATE AND COORDINATE WITH THE FIRE MARSHALL AND SHALL PROVIDE ALL NECESSARY INFORMATION NEEDED TO SATISFY THAT LIFE SAFETY SYSTEMS ARE TO LOCAL CODE ACCEPTANCE.
13. ALL SERVICE ENTRANCE EQUIPMENT IS TO BE RATED AT 100,000 AIC UNLESS OTHERWISE NOTED. TO PROVIDE SERVICE ENTRANCE EQUIPMENT WITH LOWER RATINGS THE CONTRACTOR SHALL PROVIDE IN WRITING INFORMATION FROM THE POWER UTILITY VERIFYING THAT CALCULATED FAULT CURRENTS ARE AT AN ACCEPTABLE LEVEL TO ACCOMMODATE THE LOWER RATED EQUIPMENT. IF SERVICE ENTRANCE EQUIPMENT IS EXISTING, THE CONTRACTOR SHALL VERIFY THAT AIC RATINGS OF EXISTING EQUIPMENT ARE PROPER. THE CONTRACTOR SHALL COORDINATE WITH THE POWER UTILITY AND THE ENGINEER PRIOR TO BID.
14. ALL OUTSIDE EQUIPMENT, OUTLETS, LIGHTING FIXTURES, ENCLOSURES, ETC. SHALL BE WEATHERPROOF.
15. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED CONNECTIONS FOR ALL OTHER TRADES.
16. THE CONTRACTOR SHALL OBTAIN ALL PERMITS FOR WORK UNDER THIS CONTRACT.
17. THE NUMBER, EXACT LOCATION AND MOUNTING HEIGHTS OF ALL OUTLETS, LIGHTS AND ELECTRICAL FIXTURES SHALL BE DETERMINED BY THE OWNER AND ARCHITECT. THE CONTRACTOR SHALL VERIFY ALL NUMBERS AND LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO BID AND TO INSTALLATION
18. THE CONTRACTOR SHALL PROVIDE ROUTING FOR ALL FLOOR MOUNTED OUTLETS AND OTHER LOADS AND CONNECTIONS NOT READILY ACCESSIBLE VIA WALL OR CEILING. THE CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER TO DETERMINE THE METHOD TO SERVE SUCH AREAS (I.E. TRENCHING, CORE AND BORING, POWER POLE, ETC.) PRIOR TO BID.
19. ALL RACEWAYS AND PIPES PLACED IN OR THROUGH ANY CONCRETE SLAB SHALL BE SPACED A MINIMUM OF THREE DIAMETERS OF THE LARGEST CONDUIT OR PIPE OF ANY OTHER SERVICE.
20. ALL RACEWAYS UNDERGROUND AND/OR LARGER THAN 2 INCHES IN DIAMETER SHALL BE GALVANIZED RIGID STEEL. PVC SCH 40 WILL BE ACCEPTABLE IF APPROVED BY LOCAL REGULATIONS CONTRACTOR TO VERIFY. ALL OTHER RACEWAYS 2" AND SMALLER IN DIAMETER MAY BE EMT.
21. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS AND CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS.
22. DISCONNECT SWITCHES SHALL BE HORSEPOWER RATED, HEAVY DUTY, QUICK MAKE, QUICK BREAK, IN NEMA 1 OR NEMA 3R ENCLOSURES AS REQUIRED BY EXPOSURE.
23. THE ELECTRICAL SYSTEM SHALL BE COMPLETELY AND EFFECTIVELY GROUNDED PER NEC REQUIREMENTS AND STATE AND LOCAL CODE REQUIREMENTS.
24. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE. ACCEPTANCE BY ENGINEER/ARCHITECT MUST BE A CONDITION OF THE CONTRACT.
25. IT IS NOT THE INTENTION OF THESE DRAWINGS TO ESTABLISH LIGHTING LEVELS OF ANY KIND. THE NUMBER, STYLE AND LOCATION OF LIGHTING FIXTURES ARE DETERMINED BY THE ARCHITECT AND/OR THE OWNER. THE LIGHTING FIXTURE SCHEDULE IF APPEARING ON THESE DRAWINGS IS FOR INFORMATIONAL PURPOSES AND HAS BEEN DEVELOPED BY THE ARCHITECT AND/OR OWNER. FOR DETAILED QUESTIONS REGARDING LIGHTING FIXTURES CONTACT THE ARCHITECT OR OWNER.
26. EXISTING LIGHTING FIXTURES WHEN REUSED ARE TO BE RECIRCUITED AND RECONNECTED. THE ARCHITECT AND/OR OWNER SHALL BE INFORMED OF AND SHALL APPROVE THE REUSE OF ALL REUSED LIGHT FIXTURES. ALL REUSED LIGHTING FIXTURES SHALL BE RELAMPED, CLEANED AND REPAIRED IF NECESSARY. ANY EXISTING LIGHTING FIXTURE BEYOND REPAIR SHALL BE REPLACED. ALL LIGHTING FIXTURES SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR.
27. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL ELECTRICAL SERVICES TO MECHANICAL EQUIPMENT IS ACCOUNTED FOR PRIOR TO BID. IN ADDITION, ALL MECHANICAL EQUIPMENT SUBSTITUTIONS ARE TO BE ACCOUNTED FOR PRIOR TO BID AND SHALL BE COORDINATED ELECTRICALLY.
28. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR INSTALLATION OF ALL MECHANICAL CONTROLS.
29. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FORWARD ANY SHOP DRAWINGS TO THE ARCHITECT/OWNER. SHOP DRAWINGS ARE NOT SOLICITED BY THE ENGINEER.
30. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT FIRE STOPPING MEASURES ARE PROVIDED PER LOCAL BUILDING DEPT. REQUIREMENTS. THE FIRE STOPPING MATERIAL AND ITS INSTALLATION SHALL BE UL APPROVED. ALL FIRE STOPPING MATERIAL SHALL BE NON WATER SOLUBLE.

Ricardo N Lopez
Digitally signed by Ricardo N Lopez
Date: 2021.04.28 08:36:47 -04'00'

RICARDO LOPEZ, PE
CONSULTING ENGINEER
3461 SE 1st STREET
HOMESTEAD
FLORIDA 33033
TEL. 786 200 8836
PE # 59400

SEAL
RICARDO N. LOPEZ LICENSE No. 59400 STATE OF FLORIDA PROFESSIONAL ENGINEER

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1 NOT USED			
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3 NOT USED			
4 ZONING COMMENT	04/01/2021		
5 B.D.C. COMMENT	04/19/2021		

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SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@ULTUREFUND.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

KOBI KARP
Lic. # AR0012578

RISER, NOTES AND SYMB. LEGEND

Date	JUNE 08, 2020	Sheet No.
Scale	AS INDICATED	E-202
Project	1967	

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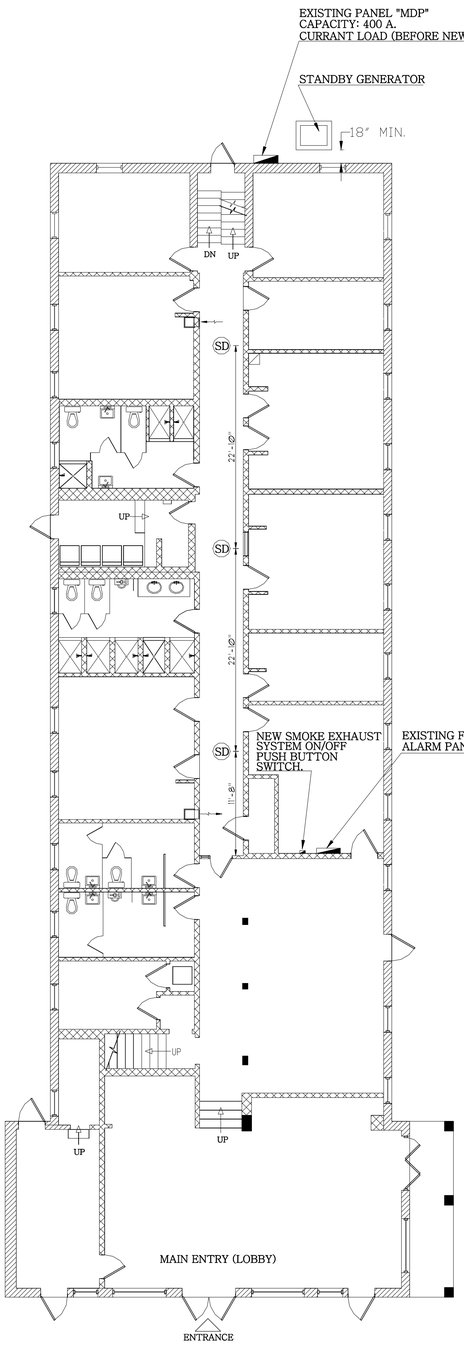
THE GENERAL CONTRACTOR AND ALL TRADES PERFORMING WORK ON THIS PROJECT SHALL BE EXCLUSIVELY RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AND WITH REPORTING ANY DISCREPANCIES TO CHARLES E. CULPEPPER, JR. BEFORE COMMENCING ANY WORK.

ELECTRICAL LEGEND.

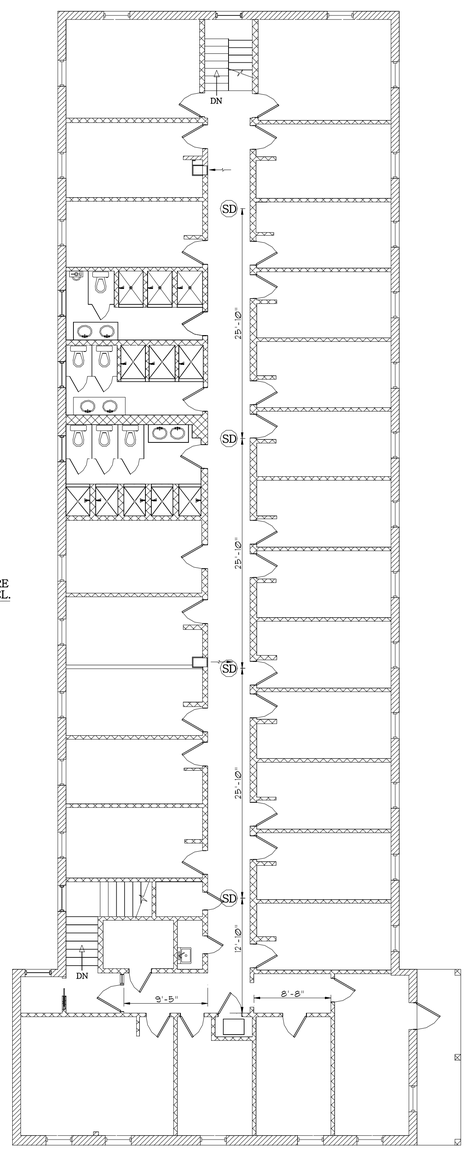
- (SD) SMOKE DETECTOR
- DISCONNECT SWITCH
- (JB) JUNCTION BOX
- (M) ELECTRIC MOTOR

SMOKE EXHAUST SYSTEM SEQUENCE OF OPERATION

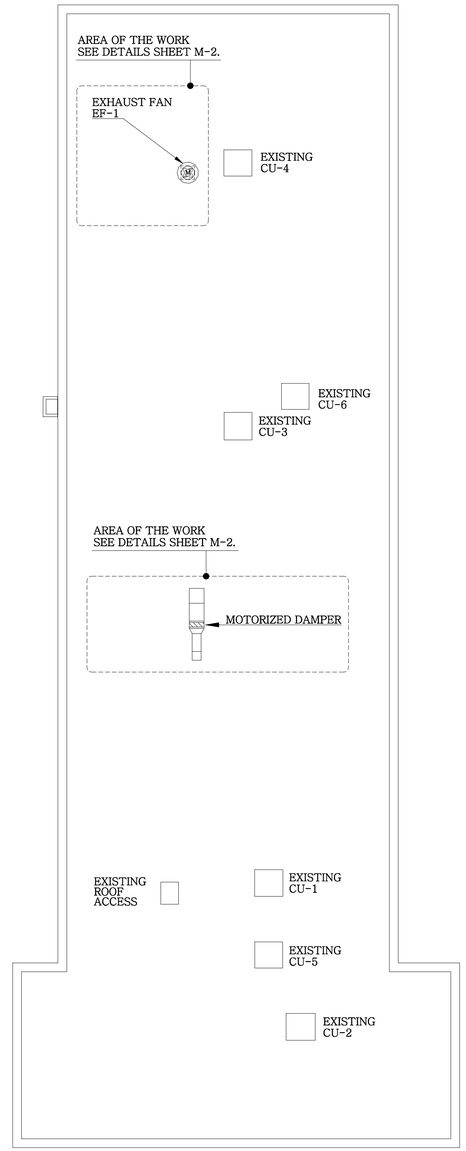
1. UNDER QUIESCENT CONDITIONS THE EXHAUST FAN AND THE MOTORIZED DAMPER ON/OF SWITCHES AT THE UNITS ARE IN THE "ON" POSITION.
2. ACTIVATION OF ANY OF THE FOLLOWING WILL CAUSE THE SMOKE EXHAUST SYSTEM TO START:
   a. ACTIVATION OF THE ON/OFF SWITCH NEAR THE FIRE ALARM PANEL.
   b. A SIGNAL FROM THE FIRE ALARM PANEL ACTIVATED BY ANY SUPERVISORY DEVICE.
   c. ACTIVATION OF ANY OF THE SMOKE DETECTORS IN THE CORRIDORS.
3. DEACTIVATION OF THE SMOKE EXHAUST SYSTEM WILL BE THROUGH THE ON/OFF SWITCH NEAR THE FIRE ALARM PANEL.



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



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

SCOPE OF THE WORK:

1. THE SCOPE OF THE WORK IS TO FURNISH ALL LABOR AND PROVIDE AND INSTALL ALL NECESSARY MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE OPERATING ELECTRICAL SYSTEM IN ACCORDANCE WITH THE GENERAL NOTES INCLUDED HEREIN AND THE SPECIFIC NOTES TO FOLLOW.
2. THE COMPLETE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
   A. ALL CIRCUIT BREAKERS.
   B. ALL DISCONNECT SWITCHES.
   C. ALL ELECTRICAL CONDUIT.
   D. ALL WIRING DEVICES.
   E. ALL POWER AND CONTROL WIRING.

A . GENERAL:

1. AS A MINIMUM ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS FOR THE TYPE OF EQUIPMENT AND INTENDED USE OF THE FOLLOWING:
   a. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
   b. NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION (NEMA).
   c. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA/NEC).
   d. UNDERWRITERS LABORATORIES (UL); NOTE THAT THE ABOVE ENUMERATED CODES AND STANDARDS ARE SUBORDINATE TO UL.
2. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC, SHALL BE LISTED FOR THE INTENDED USE WITH UNDERWRITERS LABORATORIES INC. (UL) WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL.

B. MATERIALS:

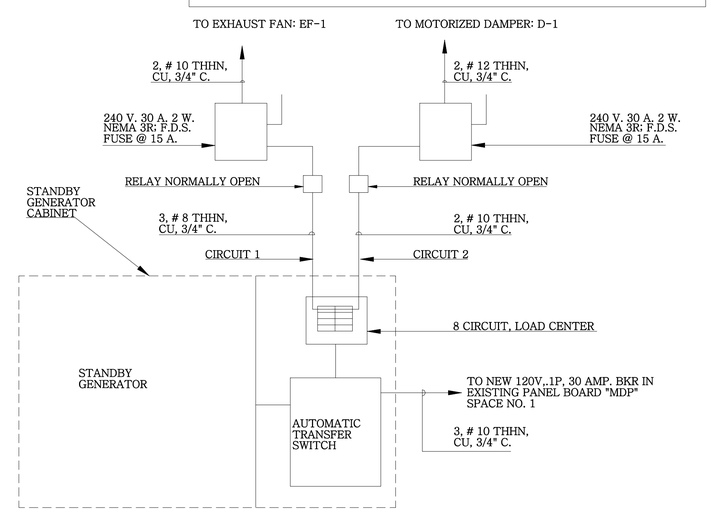
1. ALL WIRING SHALL HAVE 600 VOLT INSULATION TYPE TW, THW OR THWN FOR BRANCH CIRCUITS AND TYPE THW OR THN FOR MAIN FEEDERS OR AS SPECIFIED. MINIMUM SIZE WIRING SHALL BE #12 AWG.
2. THE ELECTRICAL DESIGN IS BASED ON COPPER CONDUCTORS; WIRE SIZES #10 AND SMALLER SHALL BE TYPE TW; WIRE SIZES #8 AND LARGER SHALL BE TYPE THW OR AS SPECIFIED. WIRE SIZES #10 AND SMALLER SHALL BE SOLID COPPER AND IN SIZES #8 AND LARGER SHALL BE STRANDED COPPER.
3. PROVIDE ALL FUSES FOR ALL EQUIPMENT WHERE FUSES ARE REQUIRED. SIZE ALL FUSES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
4. ALL ELECTRICAL WIRING SHALL BE IN CONDUIT (NO ROMEX, SX. ETC.). ALL CONDUIT SHALL BE INTERMEDIATE METALLIC CONDUIT (IMC) OR RIDGED GALVANIZED STEEL (RGS) EXCEPT THAT:
   a. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN, OR ON WALLS AND/OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP AND/OR CORROSIVE CONDITIONS.
5. ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE, UNLESS OTHERWISE NOTED.
6. WHERE OPENINGS MUST BE FIRE SEALED, USE FIRE SEAL SIMILAR TO "OZ".

C. METHODS:

1. ALL FEEDERS, SUB FEEDERS AND BRANCH CIRCUITS SHALL BE PROPERLY PHASED BALANCED.
2. WIREWAYS SHALL BE SIZED IN ACCORDANCE WITH THE NEC UNLESS OTHERWISE NOTED.
3. ELECTRICAL CONTRACTOR SHALL VERIFY REQUIREMENTS, EXACT LOCATIONS AND TYPE OF OUTLET FOR ALL ELECTRICAL EQUIPMENT.
4. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE IN WEATHERPROOF ENCLOSURES.
5. ALL PULL AND JUNCTION BOXES SHALL BE INSTALLED IN SUCH A MANNER THAT THEY WILL BE ACCESSIBLE AT ALL TIMES.

D. TESTS:

1. CONTRACTOR SHALL BE RESPONSIBLE TO CALL FOR ALL REQUIRED INSPECTIONS BY THE AUTHORITIES HAVING JURISDICTION AS THE WORK PROGRESSES
2. CONTRACTOR SHALL PERFORM TESTS ON ALL INSTALLED ELECTRICAL EQUIPMENT TO INSURE THAT ALL COMPONENTS OPERATE AS REQUIRED TO PROVIDE A COMPLETE OPERATING ELECTRICAL SYSTEM. PERFORM ANY ADDITIONAL TEST AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION. ALL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE LATEST EDITION AND IN ACCORDANCE WITH ANY LOCAL CODES AND ORDINANCES.



ELECTRICAL RISER
N.T.S.

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CHARLES E. CULPEPPER, JR.
801 BRICKELL BAY DRIVE
LOBBY, SUITE SEVEN
MIAMI, FLORIDA 33131
TEL: (305) 372-0189
CELL (786) 402-7617
ARCHITECTURAL • CIVIL • ELECTRICAL • ENVIRONMENTAL
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SMOKE EXHAUST FAN SYSTEM

PROJECT NAME

SOBE HOSTEL
235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER, JR.
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW YORK LICENSE NO. 16-066511
STATE OF ILLINOIS LICENSE NO. 062-043107
STATE OF FLORIDA LICENSE NO. 14203

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Issue Date: SEPTEMBER 15, 2020

Revisions

No.	Date	Description

CULPEPPER

Project Number: 1786 Drawn By: CEC
Designed By: CEC Checked By: CEC

Sheet Title: ELECTRICAL DETAILS

Sheet Number: E-1

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THE GENERAL CONTRACTOR AND ALL TRADES PERFORMING WORK ON THIS PROJECT SHALL BE EXCLUSIVELY RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AND WITH REPORTING ANY DISCREPANCIES TO CHARLES E. CULPEPPER, JR. BEFORE COMMENCING ANY WORK.

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Engineering
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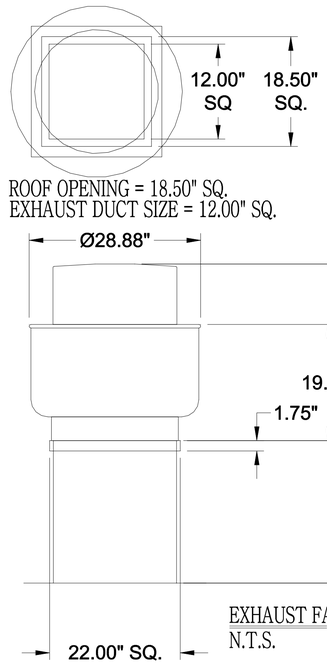
Belt Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	Mark 2	CUBE-141-5	1,500	0.75	1,228	0.39	78	0.5	115/60/1	OP	1725	1	9.8

*NEC FLA - Based on table 430.□250 or 430.□248 of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"



EXHAUST FAN EF-1
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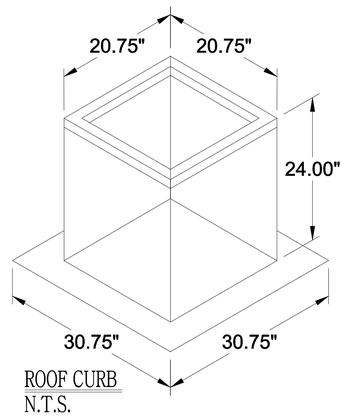
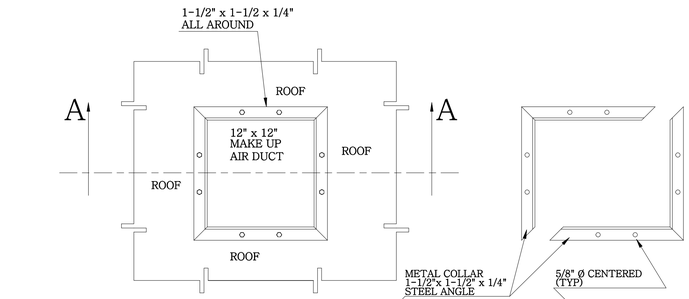
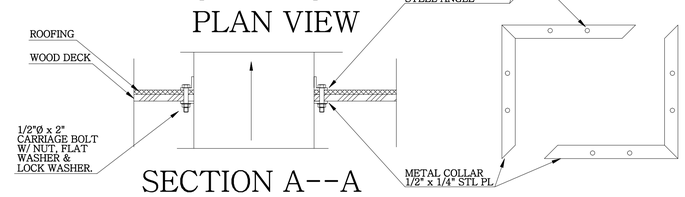


ROOF CURB
N.T.S.

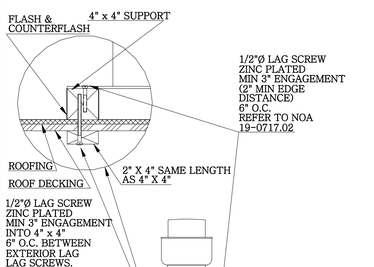


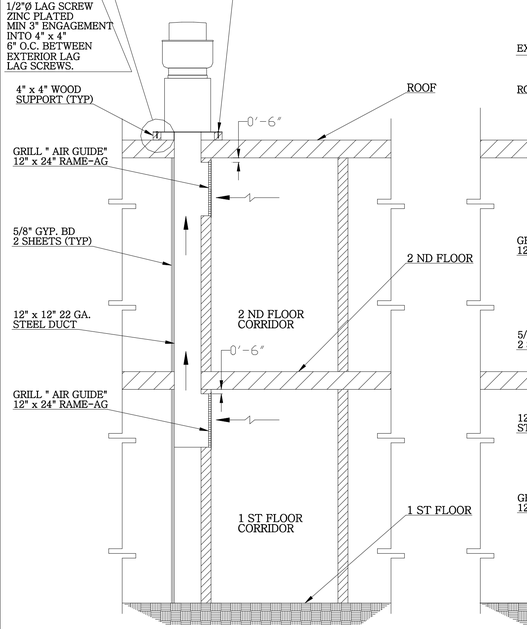
PLAN VIEW



SECTION A--A

EXHAUST FAN	
Dimensional	
Quantity	1
Weight w/o Acc's (lb)	74 LBS
Weight w/ Acc's (lb)	78 LBS
Weight w/ Acc's and Curb (lb)	125 LBS
Max T Motor Frame Size	145
Roof Opening (in.)	18.5" x 18.5"
Performance	
Volume (CFM)	1,500
Total External SP (in. wg)	0.75
Fan RPM	1228
Operating Power (hp)	0.39
Motor	
Motor Mounted	Yes
Size (hp)	1/2
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Motor RPM	1725
Efficiency Rating	Standard
Windings	1
NEC FLA* (Amps)	9.8





NORTH-SOUTH SECTION THRU EXHAUST DUCT
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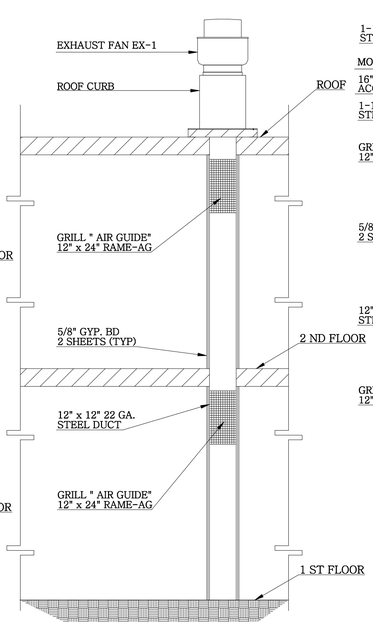
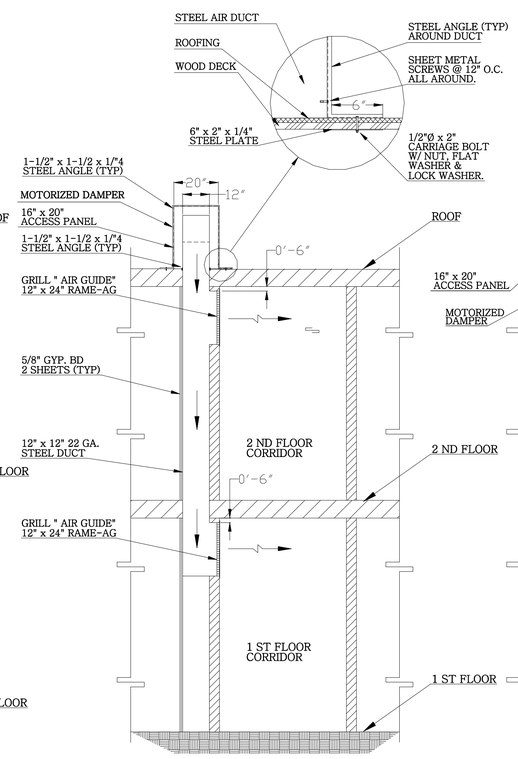
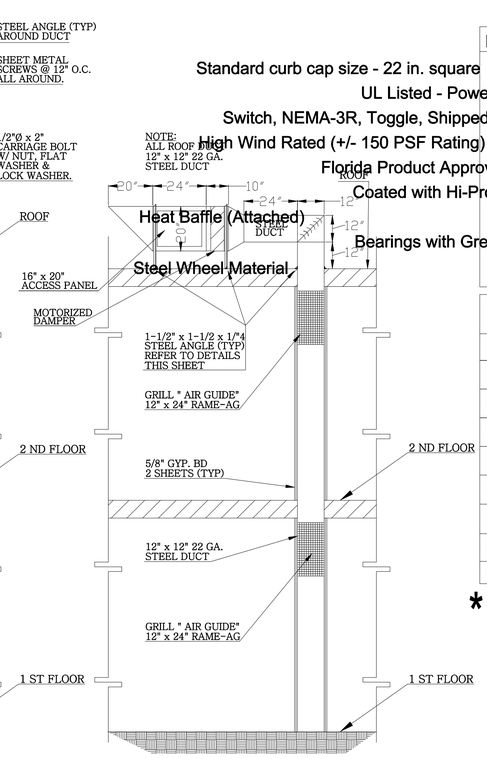


EAST-WEST SECTION THRU EXHAUST DUCT
N.T.S.



NORTH-SOUTH SECTION THRU MAKE-UP AIR DUCT
N.T.S.



EAST-WEST SECTION THRU MAKE-UP AIR DUCT
N.T.S.

Mark 2 : SELECTED OPTIONS AND ACCESSORIES

Standard curb cap size - 22 in. square
UL Listed - Power Vents for Smoke Control Systems (500F/4hrs + 1000F/15 mins)
Switch, NEMA-3R, Toggle, Shipped with Unit
High Wind Rated (+/- 150 PSF Rating)
Florida Product Approval #FL13225.1 & Miami-Dade NOA #19-0717.02
Coated with Hi-Pro Polyester, Concrete Gray-RAL 7023, Fan And Attached Acc
Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)

MOTORIZED DAMPER	
QUANTITY	1
MFG	DATON MFG
MODEL #	5NKK3
OPENING REQUIRED	20" x 20"
NO OF "F" PANELS	1
START	AUTOMATIC *
FLANGE WIDTH	1/2"
MATERIAL	ALUMINUM
ELEC. CHAR.	120/60/1

* NORMAL STATUS: SPRING CLOSED, POWER OPEN

STANDBY GENERATOR	
QUANTITY	1
MFG	GENERAC
MODEL #	6998
RATED WATTS	7.5 KW
FUEL TYPE	LIQUID PROPANE/ NATURAL GAS
AMPERES	31.25 LP/ 25 NG
START	AUTOMATIC
PHASE	SINGLE
TRANSFER SW	YES
CIRCUITS	8
ELEC. CHAR.	240/60/1
ENCLOSURE	STEEL/NEMA 3R
MOUNTING PAD	ATTACHED
BATTERY REQUIRED	YES
BATTERY INCLUDED	NO
DIMENSIONS (L x W x H)	36 x 27 x 36
WEIGHT	280 LBS

CHARLES E. CULPEPPER, JR.
801 BRICKELL BAY DRIVE
LOBBY, SUITE SEVEN
MIAMI, FLORIDA 33131
TEL: (305) 372-0189
CELL (786) 402-7617
ARCHITECTURAL • CIVIL • ELECTRICAL • ENVIRONMENTAL
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SMOKE EXHAUST
FAN SYSTEM

PROJECT NAME

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235 WASHINGTON AVENUE
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STATE OF NEW YORK LICENSE NO. 16-066511
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STATE OF FLORIDA LICENSE NO. 14303

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Issue Date: SEPTEMBER 15, 2020

Revisions

No.	Date	Description

CULPEPPER

Project Number: 1784 Drawn By: CEC
Designed By: CEC Checked By: CEC

Sheet Title:
DETAILS

Sheet Number:
M-2 2 OF 2

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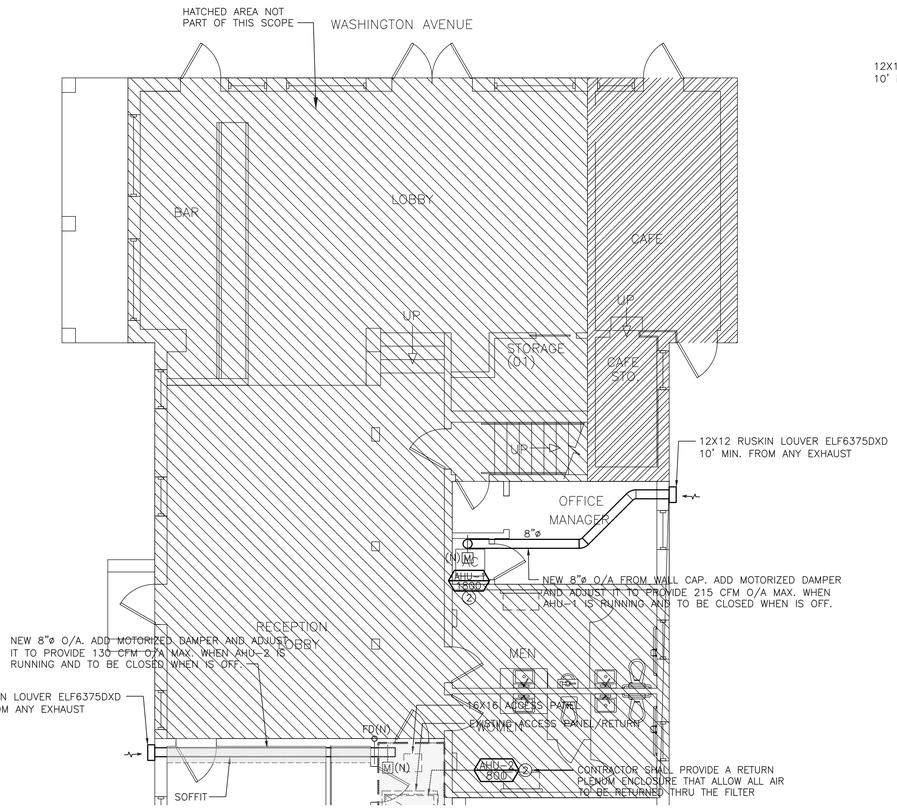

1 LEVEL ONE - PARTIAL MECHANICAL FLOOR PLAN

SCALE: 3/16" = 1'-0"

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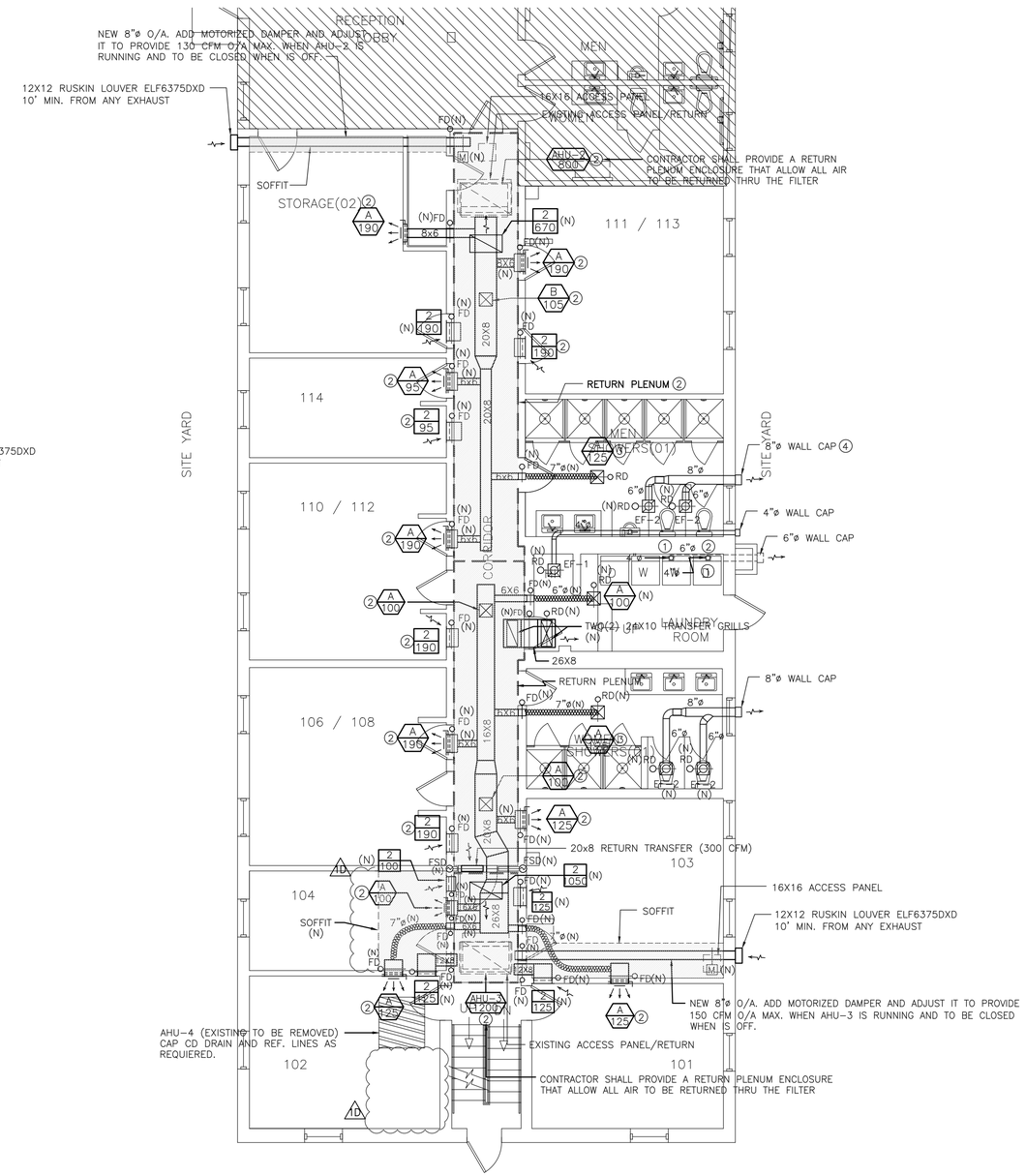

1 LEVEL ONE - PARTIAL MECHANICAL FLOOR PLAN

SCALE: 3/16" = 1'-0"

N

- DO NOT SEND THIS SET OF MECHANICAL PLANS FOR CONSTRUCTION PRICE UNTIL BEEN APPROVED FOR THE BUILDING DEPARTMENT.
- BEFORE GIVING THE PRICE, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, CONDITION AND SIZE OF EXISTING SUPPLY AND RETURN GRILLS; AND THE EXACT LOCATION AND SIZE OF EXISTING SUPPLY AND RETURN DUCTWORKS. AFTER GETTING THE JOB, MAKE MODIFICATIONS AS REQUIRED ON THE SITE WITHOUT ADDITIONAL COST TO THE OWNER.

CONSTRUCTION NOTES:

1. TIE-IN TO EXISTING.
2. EXISTING TO REMAIN. CONTRACTOR TO VERIFY EXISTING CONDITION.
3. EXISTING TO BE REPLACED FOR EXACT SIZE.
4. EXISTING TO BE RELOCATED.

(N) NEW.

SOFFIT BELOW 1HR FIRE RATED CEILING.

NOTES:

1. ON THE FIRST FLOOR THE DUCTWORKS RUN INSIDE A DRYWALL PLENUM THAT WAS CREATED BELOW THE FIRE RATED CEILING. THE RETURN RUNS ALL THE WAY THROUGH THIS RETURN PLENUM. SEE ARCHITECTURAL PLANS.
2. 1ST FLOOR CORRIDOR WALL ARE 1 HR FIRE RATED.
3. PROVIDE FIRE DAMPER ON EVERY FIRE RATED DUCT PENETRATION.
4. ALL AIR CONDITIONERS TO BE OFF IN CASE OF FIRE EVENT. SEE FIRE ALARM PLANS.
5. NEW STAIRS TO CORRIDORS DOORS SHALL BE NORMALLY OPEN AND SHALL BE CLOSE IN CASE OF FIRE. NEW STAIR TO LOBBY DOOR AND EXISTING LOBBY TO FIRST FLOOR CORRIDOR DOOR SHALL BE NORMALLY CLOSED. SEE ARCHITECTURAL AND FIRE ALARM PLANS.

RPA Engineering
PROVIDING MEP SOLUTIONS
RPA
7930 NW 107th St.
Miami, Florida, 33015
Phone: 305 308 9857
Fax: 305 829 3647
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO
LICENSE
No. 58728
STATE OF FLORIDA
PROFESSIONAL ENGINEER

RICARDO PEREZ, P.E. 58728

Ricardo Perez de Alejo
Digitally signed by Ricardo Perez de Alejo
Date: 2021.04.27 18:09:03 -04'00'

Rev.		Date	Rev.	Date
1	P.P.C.	11/23/20		
2	B.D.C.	02/04/21		
3	B.D.C.	03/18/21		
4	ZONING COMMENT	04/01/21		
5	B.D.C. (BUILDING)	04/19/21		

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SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

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Lic. # AR0012578

PROPOSED MECHANICAL LEVEL 1

Date	JUNE 08, 2020	Sheet No.
Scale	AS INDICATED	M101
Project	1967	

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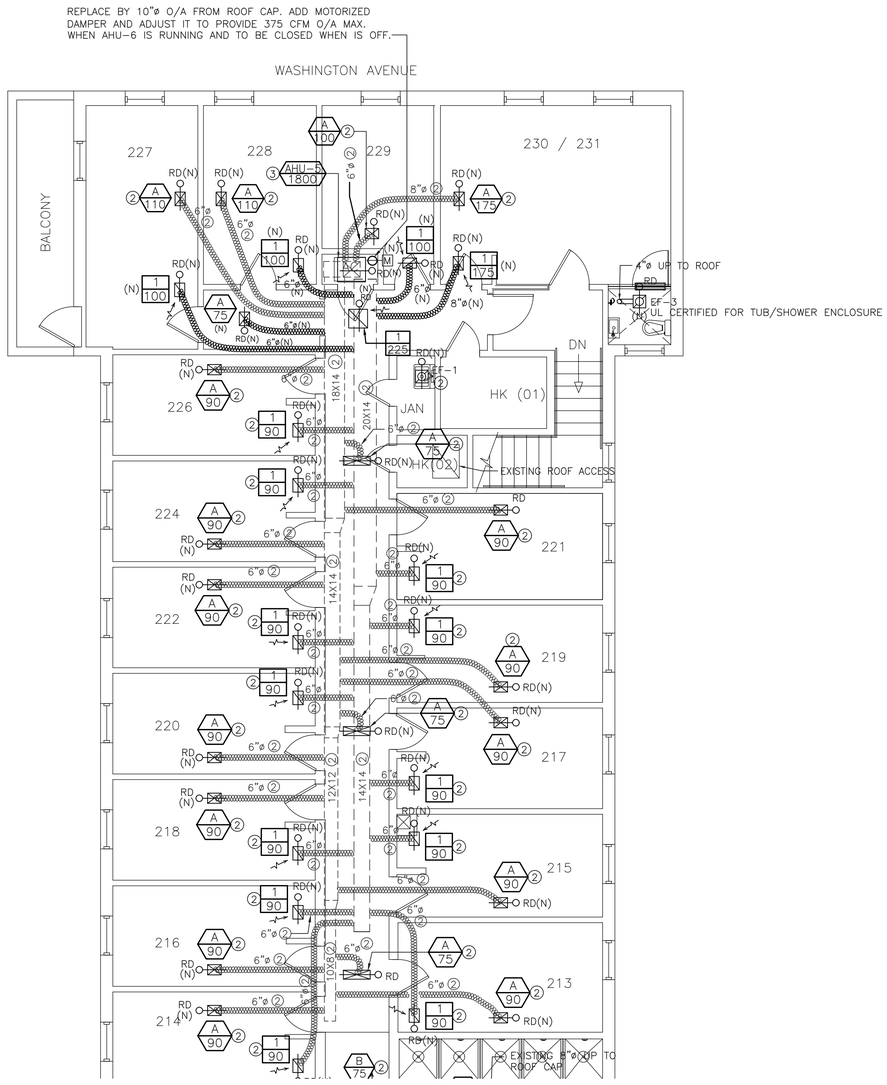

2 LEVEL TWO - PARTIAL MECHANICAL FLOOR PLAN
SCALE: 3/16" = 1'-0"

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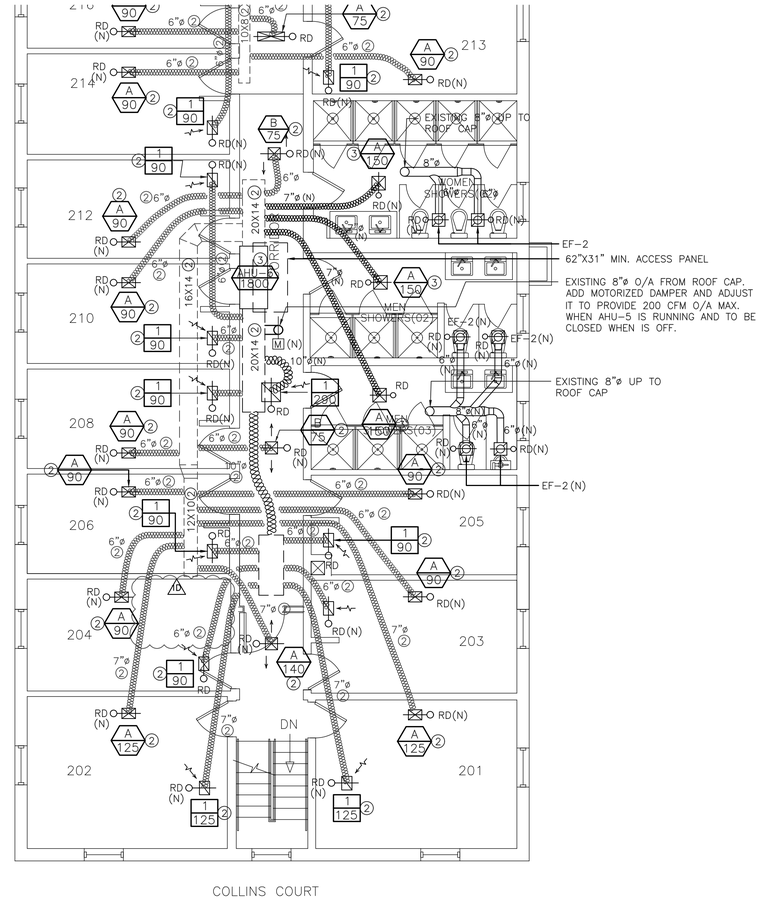

2 LEVEL TWO - PARTIAL MECHANICAL FLOOR PLAN
SCALE: 3/16" = 1'-0"

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Rev.		Date	Rev.	Date
1	P.P.C.	11/23/20		
2	B.D.C.	02/04/21		
3	B.D.C.	03/18/21		
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SOBE HOSTEL

235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

Ricardo Perez de Alejo
Digitally signed by Ricardo Perez de Alejo
Date: 2021.04.27 18:09:52 -04'00'

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PROPOSED MECHANICAL LEVEL 2

- DO NOT SEND THIS SET OF MECHANICAL PLANS FOR CONSTRUCTION PRICE UNTIL BEEN APPROVED FOR THE BUILDING DEPARTMENT.
- BEFORE GIVING THE PRICE, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, CONDITION AND SIZE OF EXISTING SUPPLY AND RETURN GRILLS; AND THE EXACT LOCATION AND SIZE OF EXISTING SUPPLY AND RETURN DUCTWORKS. AFTER GETTING THE JOB, MAKE MODIFICATIONS AS REQUIRED ON THE SITE WITHOUT ADDITIONAL COST TO THE OWNER.

CONSTRUCTION NOTES:

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3. EXISTING TO BE REPLACED FOR EXACT SIZE.
4. EXISTING TO BE RELOCATED.

(N) NEW.
SOFFIT BELOW 1HR FIRE RATED CEILING.

NOTES:

1. ON THE SECOND FLOOR THE EXISTING DUCTWORKS RUN INSIDE THE ATTIC SPACE ABOVE THE FIRE RATED CEILING.
2. 2ND FLOOR CORRIDOR WALL ARE 1 HR FIRE RATED.
3. PROVIDE FIRE DAMPER ON EVERY FIRE RATED DUCT PENETRATION.
4. ALL AIR CONDITIONERS TO BE OFF IN CASE OF FIRE EVENT. SEE FIRE ALARM PLANS.

RPA Engineering
PROVIDING MEP SOLUTIONS
RPA
7930 NW 107th St.
Miami, Florida 33015
Phone: 305 308 9857
Fax: 305 829 3847
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO
LICENSE
No. 58728
STATE OF FLORIDA
PROFESSIONAL ENGINEER

RICARDO PEREZ, P.E. 58728

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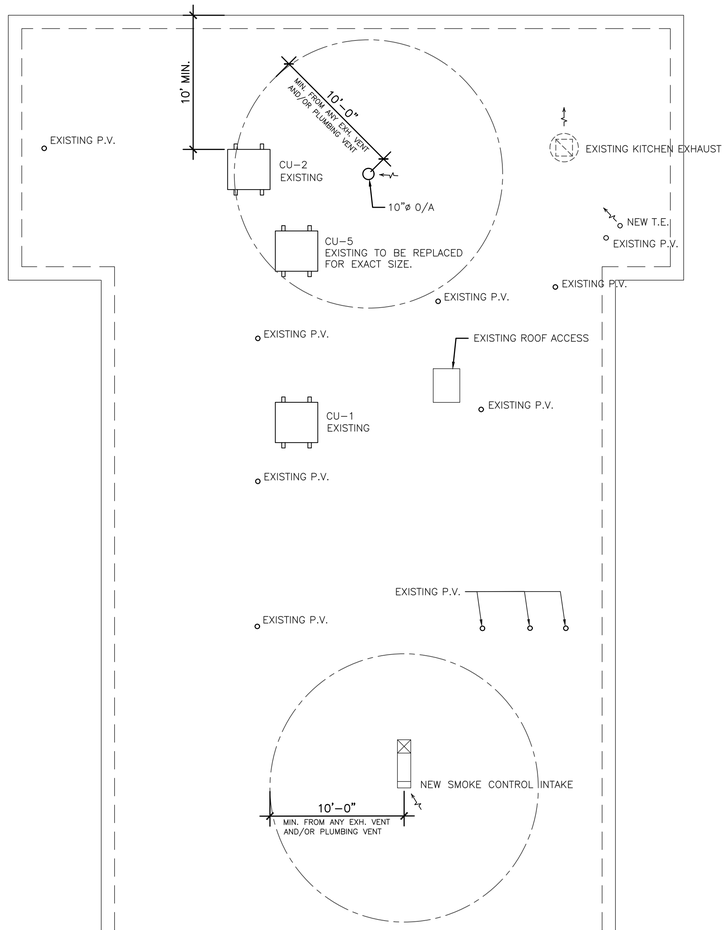

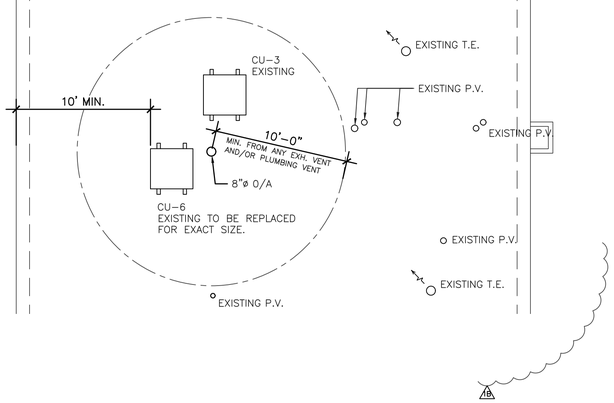

3 ROOF LEVEL - PARTIAL MECHANICAL ROOF PLAN

SCALE: 3/16" = 1'-0"

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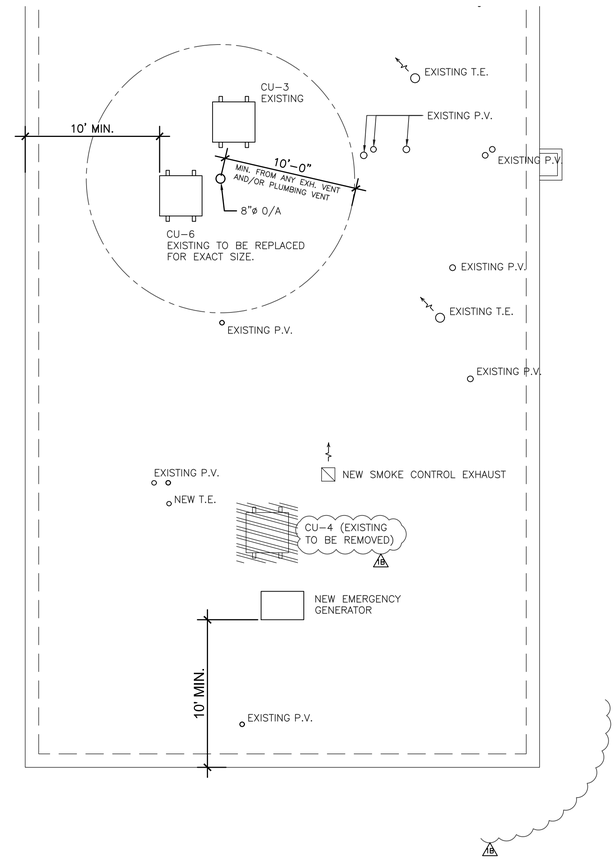

3 ROOF LEVEL - PARTIAL MECHANICAL ROOF PLAN

SCALE: 3/16" = 1'-0"

NOTE:

OUTSIDE AIR INTAKES SHALL BE AT 10' MINIMUM DISTANCE FROM ANY MECHANICAL EXHAUST VENTS AND/OR PLUMBING VENT

HVAC LEGEND

P.V.	PLUMBING VENT
T.E.	TOILET EXHAUST

Ricardo Perez de Alejo
Digitally signed by Ricardo Perez de Alejo
Date: 2021.04.27 18:10:17 -04'00'

RPA Engineering
PROVIDING MEP SOLUTIONS
RPA
7930 NW 107th St.
Miami, Florida, 33015
Phone: 305 308 9857
Fax: 305 829 3647
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO
LICENSE
No. 58728
STATE OF FLORIDA
PROFESSIONAL ENGINEER
RICARDO PEREZ, P.E. 58728

Rev.		Date	Rev.	Date
1	NOT USED			
1A	B.D.C.	02/04/21		
1B	B.D.C.	03/18/21		

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SOBE HOSTEL

235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
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Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

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PROPOSED MECHANICAL ROOF PLAN

Date	JUNE 08, 2020	Sheet No.
Scale	AS INDICATED	M103
Project	1967	

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SPLIT A/C UNIT SCHEDULE (R-410A) TO BE REPLACED FOR EXACT SIZE

AHU/CU UNIT DESIGNATION	MINIMUN SEER OR EER/IPLV	GRAND TOTAL CAPACITY, MBTUH / TOTAL SENSIBLE CAPACITY, MBTUH	REF. PIPING SUCTION/LIQUID	ELECTRICAL SERVICE AVAILABLE	INDOOR UNIT							OUTDOOR UNIT				
					RHEEM MODEL NUMBER	LOCATION	TOTAL AIR, CFM	ENTERING AIR TEMP, °F DB/WB	DIMENTIONS (H/W/D)	FAN MOTOR FLA (NON OVERLOAD)	HEATER KW AT 230V/1ø	RHEEM MODEL NUMBER	OPERATING WEIGHT, LBS.	AMBIENT AIR TEMP F DB	MCA	MAX. FUSE
5	13.0	56.0 / 39.6	7/8 / 3/8	208/230V 1ø	RH1T6024STAN	CLOSET	1800	80 / 67	55.5/24.5/22	4.8	**5.0**	RA1360AJ1	228	95	35.0	50
6	13.0	56.0 / 39.6	7/8 / 3/8	208/230V 1ø	RH1T6024STAN	ATTIC	1800	80 / 67	55.5/24.5/22	4.8	**5.0**	RA1360AJ1	228	95	35.0	50

EXISTING SPLIT A/C UNIT SCHEDULE

AHU/CU UNIT DESIGNATION	MINIMUN SEER OR EER/IPLV	GRAND TOTAL CAPACITY, MBTUH / TOTAL SENSIBLE CAPACITY, MBTUH	ELECTRICAL SERVICE AVAILABLE	INDOOR UNIT						OUTDOOR UNIT			
				MODEL NUMBER	LOCATION	TOTAL AIR, CFM	ENTERING AIR TEMP, °F DB/WB	FAN MOTOR FLA (NON OVERLOAD)	HEATER KW AT 230V/1ø	MODEL NUMBER	AMBIENT AIR TEMP F DB	MCA	MAX. FUSE
1	14.0	58.2 / 41.9	208/230V 1ø	GOODMAN ARUF60D14	CLOSET	1800	80 / 67	5.6	9.6	GOODMAN VSX14060	95	34.3	50
2	14.0	**22.2** / **17.3**	208/230V 1ø	FIRST CO. 25HX5	CELING	800	80 / 67	2.0	5.0	GOODMAN VSX14036	95	18.7	30
3	**13.0**	**32.8** / **26.2**	208/230V 1ø	FIRST CO. 36HX8	CEILING	1200	80 / 67	4.6	8.0	RHEEM 13AJN30A	95	18.7	30

AIR DISTRIBUTION SCHEDULE

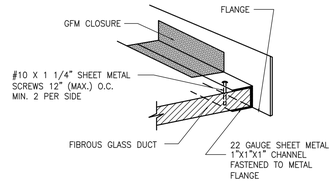
SYM.	USE	TYPE	MODEL NO.	SIZE (3)	FLEX. DIA.	CFM RANGE
A XXX	SUPPLY AIR	SINGLE DEFLECTION CEILING GRILLE ONE WAY W/ O.B.D.	TITUS MODEL 300FL	8X4	AS INDICATED	30–75
				8X6		76–150
				10X6		151–200
				12X6		201–250
				12X8		251–350
				14X8		351–500
B XXX	SUPPLY AIR	CEILING DIFFUSER 2, 3, & 4 WAYS W/ O.B.D.	TITUS MODEL 250–AA	8X8		151–200
				10X10		201–300
				12X12		301–450
1 XXXX	DUCTED RETURN AIR	RETURN AIR CEILING GRILLE W/ O.B.D.	TITUS MODEL 350FL	10X10		100–250
				12X12, 16X10		251–400
				14X14, 24X8		401–600
				18X18, 28X10		601–1000
				20X20, 30X14		1001–1500
				30X16		1501–2000
2 XXXX	TRANSFER RETURN AIR	RETURN AIR CEILING GRILLE W/ O.B.D.	TITUS MODEL 350FL	10X10		TRANSFER, 75–150
				12X12, 16X10		TRANSFER, 151–225
				14X14, 24X8		TRANSFER, 226–325
				18X18, 28X10		TRANSFER, 326–575
				20X20, 30X14		TRANSFER, 576–725
				30X16		TRANSFER, 726–890

(18)

OUTSIDE AIR SCHEDULE

BASED ON FBCM–2017

A/C UNIT NUMBER	AREA SERVED	Pz, p	Rp, CFM/p	Az, FT^2	Ra, CFM/FT^2	Ez	Voz, CFM (Pz*Rp+Az*Ra)/Ez	PROVIDED O/A, CFM
AHU–1	LOBBY/RECEPTION	8	7.5	264	0.06	1	76	215
	LOBBY/BAR	9	7.5	297	0.18	1	122	
	OFFICE	1	5.0	100	0.06	1	11	
AHU–2	CORRIDOR 1st FLOOR	—	—	157	0.06	1	10	130
	BIGGEST UNIT (104)	2	5	119	0.06	1	17 X 7 UNITS	
AHU–3	CORRIDOR 1st FLOOR	—	—	165	0.06	1	10	150
	BIGGEST UNIT (102)	2	5	165	0.06	1	20 X 6 UNITS	
AHU–5	CORRIDOR 2nd FLOOR	—	—	375	0.06	1	23	375
	BIGGEST UNIT (214)	2	5	152	0.06	1	20 X 17 UNITS	
AHU–6	CORRIDOR 2nd FLOOR	—	—	230	0.06	1	14	200
	BIGGEST UNIT (227)	2	5	170	0.06	1	20 X 9 UNITS	

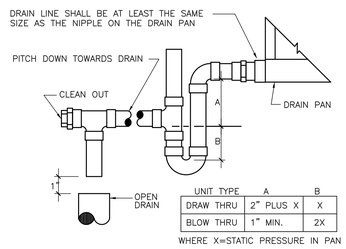


NOTE:
SHEET METAL CONNECTIONS MUST BE MADE USING GLASS FABRIC AND MASTIC (GFM)

EXCEPTION:
WHEN CONSTRUCTION PRESSURE CLASS IS 1" W.G. OR LESS AND SHEET METAL SURFACES ARE CLEANED CAREFULLY UL LISTED PRESSURE–SENSITVE ALUMINUM TAPE MAY BE USED. ALL CONNECTIONS OF FIBROUS GLASS DUCT TO EQUIPMENT AND METAL DUCT MUST BE MECHANICALLY ATTACHED 12" (MAX.) ON CENTERS.

SHEET METAL AND EQUIPMENT CONNECTIONS DETAILS

N.T.S.

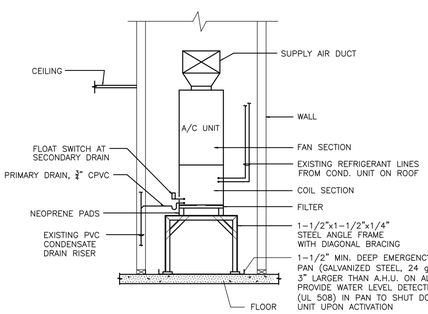


UNIT TYPE	A	B
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MIN.	2X

WHERE X=STATIC PRESSURE IN PAN

AIR HANDLING UNIT DRAIN TRAP

N.T.S.



NOTES:

1– THE AIR HANDLER SHALL HAVE A MINIMUM WORKING SPACE CLEARANCE OF 3 INCHES ALONG THE SIDES, BACK AND TOP WITH A TOTAL WIDTH OF THE ENCLOSING SPACE BEING NOT LESS THAN 12 INCHES WIDER THAN THE AIR HANDLER.

2– PROVIDED FLOAT ON SECONDARY DRAIN SWITCH TO SHUT DOWN A.H.U. UPON ACTIVATION.

VERTICAL A.H.U.–5 MOUNTING DETAIL

N.T.S.

FAN SCHEDULE

FAN NO.	CFM	SP.	MODEL	MFR.	VOLT–PH–HZ	AMPS.	SONES	INTERLOCK
EF–1	50	0.2"	AEN50	NUTONE	115–1–60	0.2	0.5	LIGHT SWITCH
EF–2	80	0.2"	AEN110	NUTONE	115–1–60	0.3	1.0	LIGHT SWITCH
EF–3	100	0.2"	FV–0510VSC1	PANASONIC	115–1–60	11.3	0.3	LIGHT SWITCH

GENERAL MECHANICAL NOTES

1– 1– SCOPE OF WORK WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE FURNISHING OF ALL AIR CONDITIONING, HEATING AND VENTILATION WORK AS SHOWN ON DRAWINGS. HEREIN SPECIFIED AND/OR EQUAL EQUIPMENT FOR APPROVAL. INSTALL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017 AND LOCAL ORDINANCES.

2– AIR CONDITIONING SYSTEM OF SPLIT TYPE.

SHALL CONSIST OF CONDENSING UNIT AND AIR HANDLING UNIT AS INDICATED ON DRAWINGS. SYSTEM SHALL BE PROVIDED COMPLETE WITH FRAMES AND ENCLOSURES, WIRING, NECESSARY CONTROLS REFRIGERANT CHARGE AND OIL CHARGE, STRIP HEATER, INTERCONNECTING PIPES AND FILTER BOX. REFRIGERANT LINES SHALL BE OF COPPER OF THE PRECHARGED, PRE–INSULATED TYPE FURNISHED AND SIZED BY SUPPLIER OF EQUIPMENT. PROVIDE SMOKE DETECTORS TO SHUT OFF UNIT.

3– CONDENSATE WATER PIPING.

CONDENSATE WATER PIPING IS **EXISTING** PVC SCHED. 40 IN NON RETURN AIR PLENUM SPACES. USE CPVC IN RETURN AIR PLENUM SPACES.

4– OUTSIDE AIR INTAKES SHALL BE AT 10' MINIMUM DISTANCE FROM ANY EXHAUST VENTS.

5– DUCTWORK

A) DUCTWORK SHALL BE FIBERBOARD FOR INDOOR AIR CONDITIONED SUPPLY AND RETURN DUCTWORK AND METAL FOR EXHAUST, AND NON–CONDITIONED OUTSIDE.

B) GLASS FIBER DUCTWORK SHALL BE "OWENS–CORNING" RECTANGULAR DUCT SYSTEM TYPE HD–FR OR EQUAL, 1–1/2" INSULATION R–6.5, CONFORMING TO APPLICATION MANUAL PUB.# 5–GL–2024 & DESIGN GUIDE, PUB.# 5–IN–2617 FOR ALL ATTIC CONDITIONS AND 1" FOR ALL INTERIOR INSTALLATIONS.

C) FLEXIBLE DUCTWORK SHALL MEET REQUIREMENTS OF NFPA 90A AND SHALL BE LISTED AS CLASS I AIR DUCT MATERIAL, UL STANDARD 181. FLEXIBLE DUCT SHALL BE INSULATED WITH R–6, 3/4 LB DENSITY FIBERGLASS INSULATION WITH VAPOR BARRIER AND SHALL NOT EXCEED 10 FEET IN LENGTH, NON COMPRESSED. METALFLEX V–200–S–UL OR EQUAL.

D) METAL DUCTS SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE LOW VELOCITY DUCT CONSTRUCTION STANDARDS, PUBLISHED BY THE "SHEET METAL AND AIR CONDITIONED CONTRACTORS NATIONAL ASSOCIATION, INC." AND THE LATEST PUBLICATION OF GUIDE & DATA BOOK OF THE "AMERICAN SOCIETY OF HEATING, VENTILATING AND AIR CONDITIONING ENGINEERS".

E) TURNING VANES SHALL BE PROVIDED IN ALL RECTANGULAR DUCTS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARS.

6– CONTRACTOR SHALL PROVIDE POSITIVE MEANS FOR BALANCING EACH INDIVIDUAL AIR CONDITIONING SUPPLY AIR OUTLET, AS PER SCHEDULES AND DRAWING, SYSTEMS SHALL BE BALANCED AGAINST THE ACTUAL INSTALLED STATIC PRESSURE.

7– BEFORE SUBMITTING FINAL PROPOSAL, THE CONTRACTOR SHALL EXAMINE THE SITE OF THE PROPOSED WORK TO DETERMINE THE EXISTING CONDITIONS THAT MAY AFFECT HIS WORK AS HE WILL BE RESPONSIBLE FOR ANY ASSUMPTIONS MADE BY HIM IN REGARDS THERE TO.

8– ANY APPARATUS, APPLIANCE, MATERIALS, WORK OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECCESARY TO MAKE THE INSTALLATION COMPLETE AND FUNTIONAL IN ALL RESPECTS AND READY TO OPERATION, EVEN IF NO PARTICULARLY SPECIFIED, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ANY ADDITIONAL EXPENSE FOR THE OWNER, AS PART OF MEANS AND METHOD OF INSTALLATION.

9– VIBRATION ISOLATION.

PROVIDE SUPPORTS OR MOUNTS FOR ALL EQUIPMENT LOCATED WITHIN THE BUILDING STRUCTURE POWERED BY ONE HORSEPOWER OR LARGER MOTOR. FLEXIBLE PIPING CONNECTIONS SHALL BE PROVIDED FOR ALL PIPING CONNECTED TO EQUIPMENT MOUNTED OR SUPPORTED BY VIBRATION ISOLATORS.

10–PROVIDE ALL NECESSARY ACCESS TO PANELS TO CEILING MOUNTED EQUIPMENT, CONTROL VALVES, VOLUME DAMPERS, ETC.

11–ALL WORK SHALL BE FIELD CHECKED BEFORE INSTALLATION AND COORDINATED WITH ALL OTHER TRADES.

12–ALL MECHANICAL EQUIPMENT INSTALLED ON THE EXTERIOR OF THE BUILDING SHALL BE CONSTRUCTED TO WITHSTAND A WIND PRESSURE OF 170 MPH WINDS FROM ANY DIRECTION.

13–ALL SIZES SHOWN FOR LINED AND UNLINED DUCTS ARE CLEAR INSIDE DUCT DIMENSIONS.

14–COORDINATE LOCATION OF DUCTWORK WITH OTHER TRADES, PARTICULARLY WHERE DUCTS RUN THROUGH STRUCTURAL ELEMENTS. PROVIDE ALL NECESSARY SLEEVES BEFORE CONCRETE IS POURED.

15–ALL CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE MECHANICAL SUBCONTRACTOR MECHANICAL SUB CONTRACTOR TO FURNISH ALL MOTORS, STARTERS, AND RELAYS, ETC.

16–A/C CONTRACTOR IS RESPONSIBLE FOR OBTAINING HIS OWN PERMIT AND PAYING ALL PERMIT FEES. (18)

17–MECHANICAL ROOMS. MATERIALS EXPOSED WITHIN PLENUM RETURN AND THE MECHANICAL ROOMS RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE–DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E–84. FMC 602.2.1. NO HAZARDOUS OR NOXIOUS MATERIALS WILL NOT BE STORED IN THE MECHANICAL ROOMS.

18–EQUIPMENT ELEVATION INDICATIONS (WHEN SHOWN) SHALL BE USED FOR REFERENCE ONLY AND NOT AS AN INDICATION OF FABRICATION REQUIREMENTS. CONTRACTOR SHALL FIELD VERIFY AND MODIFY IN FABRICATION AS NECESSARY FOR A WORKABLE INSTALLATION.

19–CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL COSTS INCURRED RESULTING FROM SUBSTITUTION OF EQUIPMENT AS WELL AS THE PERFORMANCE OF SUCH EQUIPMENT.

20–TESTS.

ALL TESTS SHALL BE PERFORMED AS REQUIRED DURING THE DIFFERENT STAGES OF WORK AND A FINAL 24 HOURS MINIMUM RUNNING TEST SHALL BE DONE AFTER ALL OTHER TESTS AND BALANCING OPERATIONS HAVE BEEN DONE. PROVIDE A BALANCING INDEPENDENT TEST & BALANCE REPORT TO ENGINEER FOR REVIEW.

21–PROVIDE ALL NECESSARY INSTRUCTIONS TO THE OWNER IN THE OPERATION OF THE MECHANICAL SYSTEMS.

22–PROVIDE EQUIPMENT MAINTENANCE AND INSTRUCTION MANUALS. MANUALS SHALL BE SUBMITTED TO THE ARCHITECT FOR ACCEPTANCE.

23–SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY THE ARCHITECT AND/OR ENGINEER BEFORE PROCEEDING WITH PURCHASE OR INSTALLATION OF THE EQUIPMENT AND MATERIALS.

24–GUARANTEE.

CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE COVERING ALL WORMANSHIP AND MATERIALS FOR A PERIOD OF 3 YEARS LABOR, 1 YEAR EQUIPMENT FROM DATE OF ACCEPTANCE.

25–THE PIPING AND FITTINGS FOR REFRIGERANT VAPOR (SUCTION) LINES SHALL BE INSULATED WITH INSULATION HAVING A THERMAL RESISTIVITY OF AT LEAST R–4 AND EXTERNAL SURFACE PERMEANCE NOT EXCEEDING 0.05 PERM WHEN TESTED IN ACCORDANCE WITH ASTM E 96.

DEMOLITION NOTES:

1. THE NATURE OF THIS REMODELING TYPE PROJECT POSES SPECIAL UNFORESEEN CONDITIONS FOR THE DESIGN ENGINEER AS WELL AS THE MECHANICAL CONTRACTOR. EVERY EFFORT HAS BEEN MADE TO SHOW AND VERIFY, WHERE POSSIBLE, THE LOCATION OF EXISTING DUCTWORK. THE MAJOR PORTION OF THE MECHANICAL SYSTEMS ARE SHOWN ON THE DRAWINGS, HOWEVER DEVIATIONS MAY BECOME EVIDENT AND CHANGES MAY OCCUR AS THE JOB PROGRESSES.
2. CONTRACTOR WILL BE RESPONSIBLE OF COORDINATING HIS DEMOLITION WORK WITH OTHER TRADES AND TO PROTECT THEM FROM DAMAGE.
3. **BEFORE GIVING THE PRICE, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, CONDITION AND SIZE OF EXISTING SUPPLY AND RETURN GRILLS: AND THE EXACT LOCATION AND SIZE OF EXISTING SUPPLY AND RETURN DUCTWORKS. AFTER GETTING THE JOB, MAKE MODIFICATIONS AS REQUIRED ON THE SITE WITHOUT ADDITIONAL COST TO THE OWNER.**
4. EXISTING A/C SERVING AREAS NOT COVERED BY THIS CONTRACT BUT SHALL NOT BE INTERRUPTED UNLESS IT IS A TEMPORARY INTERRUPTION FULLY COORDINATED WITH THE OWNER.

HVAC DESIGN REQUIRES	YES	NO
DUCT SMOKE DETECTOR		●
FIRE DAMPER(S)	●	
SMOKE DAMPER(S)	●	
FIRE RATED ENCLOSURE	●	
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY	●	
FIRESTOPPING	●	
SMOKE CONTROL	●	

Ricardo Perez de Alejo
Digitally signed by Ricardo Perez de Alejo
Date: 2021.04.27 18:10:44 -04'00'

RPA Engineering
PROVIDING MEP SOLUTIONS
7930 NW 107th St.
Miami, Florida, 33015
Phone: 305 308 9857
Fax: 305 829 3647
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO
LICENSE No. 58728
STATE OF FLORIDA
PROFESSIONAL ENGINEER
RICARDO PEREZ, P.E. 58728

Rev.		Date	Rev.	Date
1	P.P.C.	11/23/20		
1A	B.D.C.	02/04/21		
1B	B.D.C.	03/18/21		

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SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

KOBI KARP
Lic. # AR0012578

MECHANICAL NOTES & DETAILS

Date	JUNE 08, 2020	Sheet No.
Scale	AS INDICATED	M201
Project	1967	

MIAMIBEACH
BUILDING DEPARTMENT
Reviewed For Compliance
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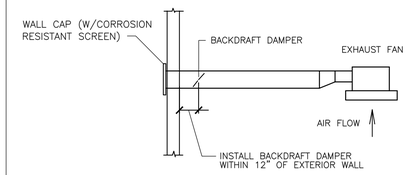
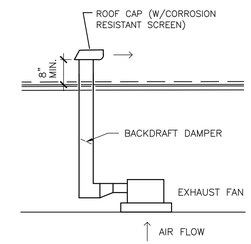


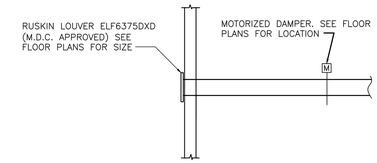
BATHROOM EXHAUST DUCTS TO BE CONSTRUCTED OF A MIN. 28 GAUGE (GALVANIZED) AND DISCHARGE TO THE OUTSIDE OF THE BLDG. SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL, MESH SIZE NOT LARGER THAN 1/2".

TOILET EXH. WALL CAP DETAIL
N.T.S.



BATHROOM EXHAUST DUCTS TO BE CONSTRUCTED OF A MIN. 28 GAUGE (GALVANIZED) AND DISCHARGE TO THE OUTSIDE OF THE BLDG. SHALL BE TERMINATED NOT LESS THAN 8" ABOVE THE FINISHED ROOF SURFACE AND SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL, MESH SIZE NOT LARGER THAN 1/2".

TOILET EXHAUST ROOF CAP
N.T.S.



OUTSIDE AIR WALL CAP DETAIL
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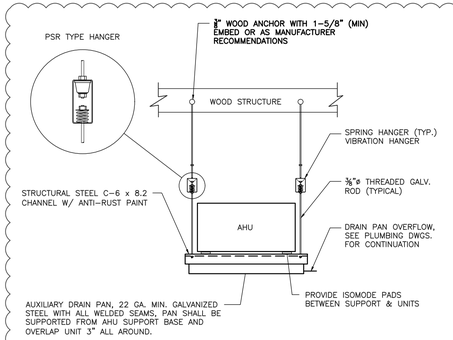


NOTES:

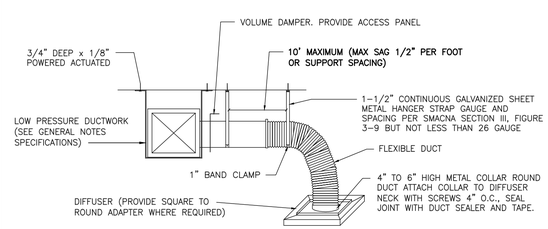
1. PROVIDE FLOAT SWITCH TO SHUT DOWN A.H.U. UPON ACTIVATION. THE FLOAT SWITCH TO BE INSTALLED ON THE SECONDARY CONDENSATE DRAIN CONNECTION TO THE UNIT.
2. THE SERVICE BREAKER OF THE EQUIPMENT IS LOCATED WITHIN 6 FEET (1829 MM) OF AN CEILING ACCESS.
3. A DEVICE IS INSTALLED TO ALERT THE OWNER OR SHUT THE UNIT DOWN WHEN THE CONDENSATION DRAIN IS NOT WORKING PROPERLY.
4. PROVIDE CEILING ACCESS OPENING OF SUFFICIENT SIZE TO REPLACE THE AIR HANDLER.
5. CONTRACTOR SHALL PROVIDE A RETURN PLENUM ENCLOSURE THAT ALLOW ALL AIR TO BE RETURNED THRU THE FILTER
6. A NOTICE IS POSTED ON THE ELECTRIC SERVICE BREAKER INDICATING TO THE OWNER THAT THE AIR HANDLER IS LOCATED IN THE CEILING. SAID NOTICE SHALL BE IN ALL CAPITALS, IN 16 POINT TYPE, WITH THE TITLE AND FIRST PARAGRAPH IN BOLD:

NOTICE TO HOMEOWNER

A PART OF YOUR AIR-CONDITIONING SYSTEM, THE AIR HANDLER, IS LOCATED IN THE ATTIC. FOR PROPER, EFFICIENT, AND ECONOMIC OPERATION OF THE AIR-CONDITIONING SYSTEM, YOU MUST ENSURE THAT REGULAR MAINTENANCE IS PERFORMED.

YOUR AIR-CONDITIONING SYSTEM IS EQUIPPED WITH ONE OR BOTH OF THE FOLLOWING: (1) A DEVICE THAT WILL ALERT YOU WHEN THE CONDENSATION DRAIN IS NOT WORKING PROPERLY OR (2) A DEVICE THAT WILL SHUT THE SYSTEM DOWN WHEN THE CONDENSATION DRAIN IS NOT WORKING. TO LIMIT POTENTIAL DAMAGE TO YOUR HOME, AND TO AVOID DISRUPTION OF SERVICE, IT IS RECOMMENDED THAT YOU ENSURE PROPER WORKING ORDER OF THESE DEVICES BEFORE EACH SEASON OF PEAK OPERATION.

HORIZONTAL AHU-6 MOUNTING DETAIL
N.T.S.



DUCT HANGING DETAIL (FIBER BOARD AND FLEX.)
N.T.S.

Rev.		Date	Rev.	Date
1	NOT USED			
1A	B.D.C.	02/04/21		
1B	B.D.C.	03/18/21		

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SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

Ricardo Perez de Alejo
Digitally signed by Ricardo Perez de Alejo
Date: 2021.04.27 18:11:04 -04'00'

KOBI KARP
Lic. # AR0012578

RPA Engineering
PROVIDING MEP SOLUTIONS
7930 NW 187th St.
Miami, Florida 33015
Phone: 305 308 9857
Fax: 305 829 3647
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO
LICENSE
No. 58728
STATE OF FLORIDA
PROFESSIONAL ENGINEER
RICARDO PEREZ, P.E. 58728

MECHANICAL NOTES & DETAILS

Date	JUNE 08, 2020	Sheet No.
Scale	AS INDICATED	M202
Project	1967	

RUSKIN

3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

FDR25 ROUND FIRE DAMPER

1½ HOUR UL555 RATING FOR USE IN DYNAMIC AND STATIC SYSTEMS

APPLICATION

Ruskin FDR25 is a true round fire damper designed for use in fire rated walls and floors and is the perfect choice when using round duct.

The FDR25 is rated for maximum velocity of 2,000 fpm (10.2 m/s) and 4" w.g. (1 kPa). The integral frame and unique "cinch plate" design provides a low cost, high performing damper. When the FDR25 reaches a job site nothing else is required in order to install the damper. The FDR25 now has UL approval for plate on one-side of metal stud or concrete walls.

STANDARD CONSTRUCTION	
Description	**SDRS25**
Frame/Sleeve	20 gauge (.9) galvanized steel, standard 14" (356) integral sleeve and retaining "cinch" plates.
Blades	Single skin 14 gauge (1.9) equivalent thickness galvanized steel.
Bearings	Stainless steel sleeve, pressed into frame.
Axle	½" (13) diameter.
Fuse Link	165°F (74°C) is standard. 212°F (100°C) or 285°F (141°C) available at additional cost.

MAXIMUM OPERATIONAL RATINGS	
Description	**FDR25**
UL555 Hourly Rating	1 1/2 Hours
Maximum Velocity	2000 FPM (10.2 m/s)
Maximum Pressure	4 in. wg (1kPa)

DAMPER SIZES

MINIMUM SIZE
6" (152) diameter.
MAXIMUM SIZE
Vertical/Horizontal – 24" (610) diameter.

OPTION

- **Stainless Steel** Construction (See Model FDR25SS)
- **Sleeve/Frame** of various lengths to insure field compliance with UL installation requirements.

NOTES

1. Units furnished approximately ¼" (3) smaller than given size.
2. Dimensions shown in parentheses ( ) indicate millimeters.

Model FDR25 meets the requirements for fire, dampers established by:

- **National Fire Protection Association** NFPA Standards 80, 90A, 92A, 92B, 101 and 105
- **ICC International Building Codes**
- **CSFM California State Fire Marshal** Fire Damper Listing (#3225-245:102)
- **New York City** (BSA Listing #176-82-SM)

CLASSIFIED C UL US — SEE COMPLETE MARKING ON PRODUCT

UL555 Classification R5531

ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.

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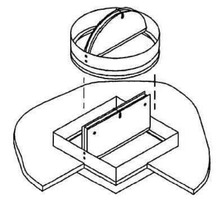
3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

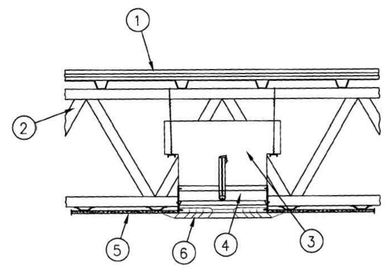
CEILING DAMPER INSTALLATION SUPPLEMENT FOR CEILING DESIGN L555 MODELS CFD(R)2, CFD(R)3, CFD(R)3.5

APPLICATION

Models CFD(R)2, CFD(R)3, CFD(R)3.5, CFD4 and CFD(R)5 are UL labeled ceiling radiation dampers. When installed as shown, they provide appropriate protection for air inlet or outlet penetrations in the ceiling membrane of floor/ceiling and roof/ceiling assemblies with fire resistance ratings of up to 1 hour.



ITEM	DESCRIPTION
1.	Floor or roof assembly
2.	Wood truss
3.	Air duct (insulated)
4.	Ceiling damper
5.	Gypsum board
6.	Grille (by others)



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3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

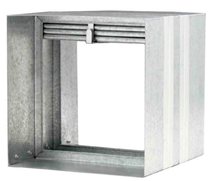
DIBD20, 40, 60 AND DIBD230, 430, 630 CURTAIN TYPE DYNAMIC FIRE DAMPERS

1½ AND 3 HOUR UL555 RATED FOR USE IN DYNAMIC AND STATIC SYSTEMS

APPLICATION

DIBD20, 40, 60 fire dampers can be installed vertically in walls or horizontally in floors with fire resistance ratings of less than 3 hours. The DIBD20, 40, 60 carry a 1½ hour UL fire damper label and are classified as a dynamic damper for use in HVAC systems that remain in operation during a fire.

DIBD230, 430, 630 can be installed vertically in walls or horizontally in floors with fire resistance ratings of 3 hours or more. The DIBD230, 430, 630 carry a 3 hour UL fire damper label and are classified as a dynamic damper for use in HVAC systems that remain in operation during a fire.



DYNAMIC CLOSURE RATINGS

4000 fpm (20.3 m/s) vertical mount only, up to 24" x 24" (610 x 610).

3000 fpm (15.2 m/s) vertical and horizontal mount, up to 24" x 24" (610 x 610).

2000 fpm (10.2 m/s) vertical or horizontal mount on all sizes.

4 in. w.g. (1kPa) maximum pressure on all sizes.

STANDARD CONSTRUCTION

FRAME AND BLADES MATERIAL
Galvanized steel (in gauges required by UL listing R-5531).
FRAME/SLEEVE LENGTH
DIBD20, DIBD230 - 12" (305) long
DIBD40, DIBD430 - 14" (356) long
DIBD60, DIBD630 - 16" (406) long
CLOSURE SPRINGS
301 stainless steel constant force or spring clip type.
FUSIBLE LINK
165°F (74°C) is standard. 212°F (100°C) and 285°F (141°C) are available.

DAMPER SIZES

The sizes listed below are for A Style dampers. Refer to pages 2 and 3 for sizes of other style dampers.

MINIMUM SIZE
Vertical Installation – 4"w x 4"h (102 x 102)
Horizontal Installation – 6"w x 6"h (152 x 152) for dampers no larger than 24"w or 24"h (610 or 610). Dampers larger than 24"w or 24"h (610 or 610) have a minimum size of 10"w or 10"h (254 or 254).
MAXIMUM SIZE
Single Section
Vertical Installation – 33"w x 36"h (838 x 914)
Horizontal Installation – 24"w x 24"h (610 x 610)
Multiple Section
Vertical Installation – 72"w x 48"h (1829 x 1219), 48"w x 72"h (1219 x 1829) or 84"w x 24"h (2134 x 610)
Horizontal Installation – 36"w x 48"h (914 x 1219)

OPTIONS

- **FM Approvals** as Specification Tested Product.
- **Switch Package** to remotely indicate damper blade position.
- **FAST Angle** for one side angle installation
- **DIBD10** for easy all from one side installation.
- **G Style** for grille applications.
- **FireStop Caulk Installation.**

NOTE:

1. Dimensions shown in parentheses ( ) indicate millimeters.
2. Damper Sleeves ma need to be sealed in the field to pass local duct leakage requirements.

Models DIBD20, 40, 60 and DIBD230, 430, 630 meet the requirements for fire, dampers established by:

- **National Fire Protection Association** NFPA Standards 90A and 101
- **ICC International Building Codes**
- **CSFM California State Fire Marshal** Fire Damper Listing (#3225-245:005)
- **New York City** (BSA Listing #292-71-SA) DIBD2 only.

UL CLASSIFIED
UL555 Listing R5531

CLASSIFIED C UL US — SEE COMPLETE MARKING ON PRODUCT

FM Approvals
Specification Tested Product (Option)

VERTICAL MOUNT

HORIZONTAL MOUNT

L = Frame/Sleeve Length

ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.

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GREENHECK

Model FSD-211

Combination Fire Smoke Damper
Steel 3V Blades
UL 555S Leakage Class I
UL 555 1 1/2 Hour Fire Resistance Rating

Application

Model FSD-211 is a combination fire smoke damper with 3V style blades. This model is designed for operation and dynamic closure in emergency fire smoke situations. It is rated for airflow and leakage in either direction. The FSD-211 may be installed vertically (with blades running horizontal) or horizontally.

Ratings

UL 555 Fire Resistance Rating
Fire Rating: 1½ hours
Dynamic Closure Rating: Actual ratings are size dependent
Velocity: Up to 2,000 fpm (10.2 m/s)
Pressure: Up to 6 in. wg (1.5 kPa)

UL 555S Leakage Rating
Leakage Class: I
Operational Rating: Actual ratings are size dependent
Velocity: Up to 2,000 fpm (10.2 m/s)
Pressure: Up to 6 in. wg (1.5 kPa)
Temperature: Up to 350°F (177°C) - depending upon the actuator

FM Approvals SPECIFICATION TESTED PRODUCT OPTION

Construction	Standard	Optional
Frame Material	Galvanized steel	-
Frame Material Thickness	16 ga. (1.5mm)	-
Frame Type	5 in. x 1in. (127mm x 25mm) hat channel	-
Blade Material	Galvanized steel	-
Blade Material Thickness	16 ga. (1.5mm)	-
Blade Type	3V	-
Linkage	Plated steel out of airstream, concealed in jamb	-
Axle Bearings	304SS	-
Axle Material	Plated steel	-
Blade Seals	Silicone	-
Jamb Seals	304SS	-
Closure Device	RRL	RRL/OCI, TOR, PRV, or Fusible Link
Closure Temperature	165°F (74°C)	212°F (100°C), 250°F (121°C), 350°F (177°C)

*Width and Height dimensions furnished approximately ¼ in. (6mm) undersize. Add sleeve thickness for overall sleeved damper dimension.

Model FSD-211 meets the requirements for fire dampers, smoke dampers and combination fire smoke dampers established by:

National Fire Protection Association
NFPA Standards 80, 90A, 92A, 92B, 101 & 105
IBC International Building Codes
CSFM California State Fire Marshal
Fire Damper Listing (#3225-0981:103)
Leakage (Smoke) Damper Listing (#3230-0981:104)
New York City (MEA listing #260-91-M)

CLASSIFIED C UL US — See complete marking on product. UL 555 and UL 555S Classification R13317

W x H	Minimum Size	Maximum Size		
		Single Section	Multiple Section	
			Horizontal	Vertical
4 in. wg (1 kPa) pressure				
Inches	8 x 6	32 x 50 or 36 x 48	144 x 96	128 x 100
mm	203 x 152	813 x 1270 or 914 x 1219	3658 x 2438	3251 x 2540
6 in. wg (1.5 kPa) pressure				
Inches	8 x 6	36 x 48	144 x 48	128 x 48
mm	203 x 152	914 x 1219	3658 x 1219	3251 x 1219

Installation instructions available at www.greenheck.com.

Features:

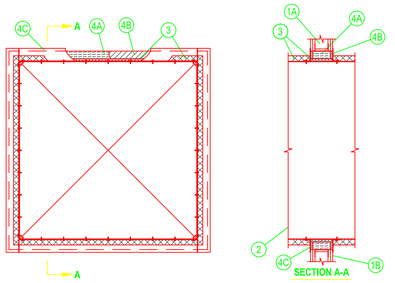
- Frames are constructed with reinforced corners. Low profile head and sill are used on sizes less than 17 in. high (432mm).

Hilti Firestop Systems

CLASSIFIED C UL US — Conforms to Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. W-L-7156

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Rating — 0 Hr



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members shall be used to completely frame around opening.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max size of opening is 210 sq in. (1355 cm2) with a max width of 14-1/2 in. (368 mm) for wood studs. Max size of opening is 76.2 sq ft. (7 m2) with a max width of 105-1/2 in. (2.7 m) for steel studs.
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall in which it is installed.
2. Steel Duct — Max 100 by 100 in. (2.5 by 2.5 m) steel duct to be installed within the framed opening. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. Steel duct to be rigidly supported on both sides of wall assembly.
3. Batts and Blankets* — Nom 1-1/2 or 2 in. (38 or 51 mm) thick glass fiber batt or blanket (min 3/4 pcf or 12 kg/m3) jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed minimum 50% such that the annular space within the firestop system shall be min 1/2 in. (13 mm) to max 2 in. (51 mm).
   See Batts and Blankets (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 3-5/8 (92 mm) or 4-7/8 in. (124 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form for 1 or 2 hr fire-rated walls, respectively. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
   C. Steel Retaining Angles — Min No. 16 gauge (0.059 in. or 1.5 mm) galv steel angles sized to lap steel duct a min of 2 in. 51 mm) and lap wall surfaces a min of 1 in. (25 mm). Angles attached to steel duct on both sides of wall with min No. 10 steel sheet metal screws spaced a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. When max duct dimension does not exceed 48 in. (122 cm) and duct area does not exceed 1300 in2 (8387 cm2), angles may be min No. 18 gauge galv steel. Angles attached to steel duct on both sides of wall with min No. 10 by 1/2 in. (13 mm) long steel sheet metal screws located a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. When max 1-1/2 in. (38 mm) thick insulation is used, steel angles are optional for those sides of duct that do not exceed the dimension specified in Table below, dependent on packing material and annular space as specified.

Max Duct Dimension	Duct Thickness	Annular Space	Packing Material	Angle (Item 3C) Required
24 in. (610 mm)	24 ga or heavier	1/2 in. min to 1 in. max (13 to 25 mm)	Item 3A1	No

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI

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Hilti Firestop Systems

HVAC LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A XXX	DESIGNATION FOR SUPPLY DIFFUSER LETTER AND CFM		NEW SPIRAL SHEET METAL DUCTWORK INTERNALLY LINED.
1 XXX	DESIGNATION FOR RETURN REGISTER NUMBER AND CFM		NEW FIBERBOARD DUCTWORK
AHU-X XXXX	AIR HANDLER UNIT		ELBOW WITH TURNING VANES
T	THERMOSTAT		REDUCERS AS INDICATED
VD	SUPPLY REGISTER OR GRILLE MOUNT (VERTICAL SIDEWALL)		
R/A	RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT SIDEWALL)		STANDARD BRANCH TAKE-OFF
EF-#	EXHAUST FAN (CEILING TYPE)		FLEXIBLE DUCTWORK W/COLLAR WITH VOLUME DAMPER
	RETURN AIR GRILLE	M	MOTORIZED DAMPER
	CEILING DIFFUSER		VOLUME DAMPER
FD	FIRE DAMPER	FSD	FIRE/SMOKE DAMPER
RD	CEILING RADIATION DAMPER		

Ricardo Perez de Alejo — Digitally signed by Ricardo Perez de Alejo Date: 2021.04.27 18:11:25 -04'00'

RPA Engineering
PROVIDING MEP SOLUTIONS
7930 NW 107th St.
Miami, Florida 33015
Phone: 305 308 9857
Fax: 305 829 3647
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO — LICENSE No. 58728 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

RICARDO PEREZ, P.E. 58728

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Rev.		Date	Rev.	Date
1	NOT USED			
2	NOT USED			
3	B.D.C.	03/18/21		

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SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

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MECHANICAL NOTES & DETAILS

Date	JUNE 08, 2020	Sheet No.
Scale	AS INDICATED	M203
Project	1967	

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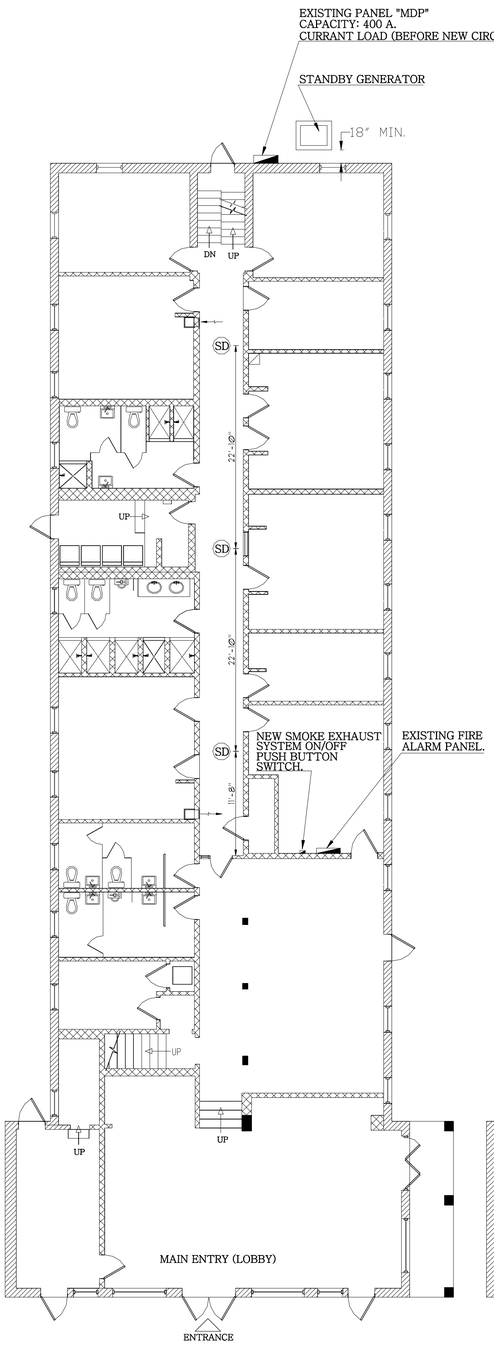
ELECTRICAL LEGEND.

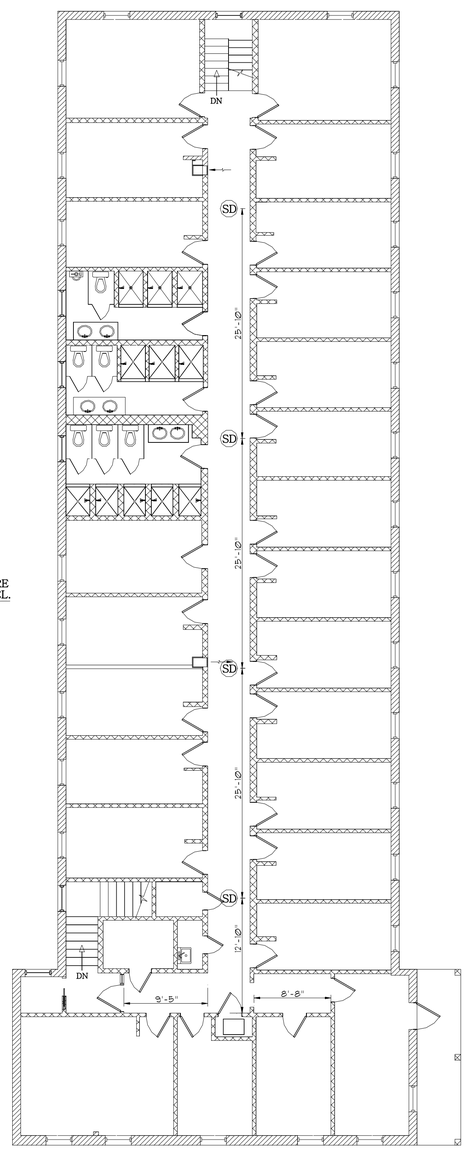
- (SD) SMOKE DETECTOR
- DISCONNECT SWITCH
- (JB) JUNCTION BOX
- (M) ELECTRIC MOTOR

SMOKE EXHAUST SYSTEM SEQUENCE OF OPERATION

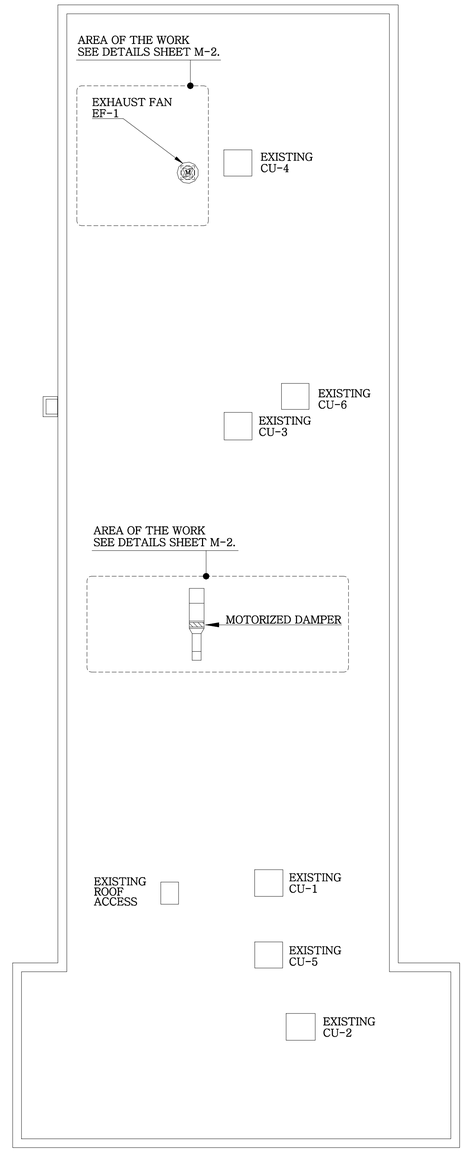
1. UNDER QUIESCENT CONDITIONS THE EXHAUST FAN AND THE MOTORIZED DAMPER ON/OF SWITCHES AT THE UNITS ARE IN THE "ON" POSITION.
2. ACTIVATION OF ANY OF THE FOLLOWING WILL CAUSE THE SMOKE EXHAUST SYSTEM TO START:
   a. ACTIVATION OF THE ON/OFF SWITCH NEAR THE FIRE ALARM PANEL.
   b. A SIGNAL FROM THE FIRE ALARM PANEL ACTIVATED BY ANY SUPERVISORY DEVICE.
   c. ACTIVATION OF ANY OF THE SMOKE DETECTORS IN THE CORRIDORS.
3. DEACTIVATION OF THE SMOKE EXHAUST SYSTEM WILL BE THROUGH THE ON/OFF SWITCH NEAR THE FIRE ALARM PANEL.



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



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

SCOPE OF THE WORK:

1. THE SCOPE OF THE WORK IS TO FURNISH ALL LABOR AND PROVIDE AND INSTALL ALL NECESSARY MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE OPERATING ELECTRICAL SYSTEM IN ACCORDANCE WITH THE GENERAL NOTES INCLUDED HEREIN AND THE SPECIFIC NOTES TO FOLLOW.
2. THE COMPLETE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
   A. ALL CIRCUIT BREAKERS.
   B. ALL DISCONNECT SWITCHES.
   C. ALL ELECTRICAL CONDUIT.
   D. ALL WIRING DEVICES.
   E. ALL POWER AND CONTROL WIRING.

A . GENERAL:

1. AS A MINIMUM ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS FOR THE TYPE OF EQUIPMENT AND INTENDED USE OF THE FOLLOWING:
   a. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
   b. NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION (NEMA).
   c. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA/NEC).
   d. UNDERWRITERS LABORATORIES (UL); NOTE THAT THE ABOVE ENUMERATED CODES AND STANDARDS ARE SUBORDINATE TO UL.
2. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC, SHALL BE LISTED FOR THE INTENDED USE WITH UNDERWRITERS LABORATORIES INC. (UL) WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL.

B. MATERIALS:

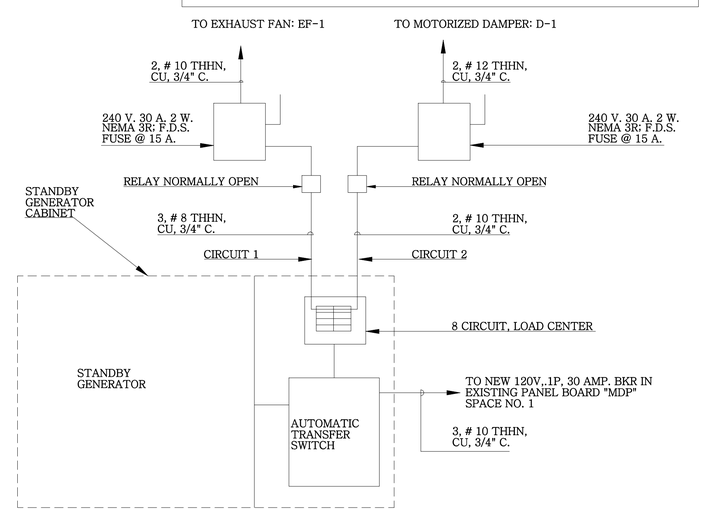
1. ALL WIRING SHALL HAVE 600 VOLT INSULATION TYPE TW, THW OR THWN FOR BRANCH CIRCUITS AND TYPE THW OR THN FOR MAIN FEEDERS OR AS SPECIFIED. MINIMUM SIZE WIRING SHALL BE #12 AWG.
2. THE ELECTRICAL DESIGN IS BASED ON COPPER CONDUCTORS; WIRE SIZES #10 AND SMALLER SHALL BE TYPE TW; WIRE SIZES #8 AND LARGER SHALL BE TYPE THW OR AS SPECIFIED. WIRE SIZES #10 AND SMALLER SHALL BE SOLID COPPER AND IN SIZES #8 AND LARGER SHALL BE STRANDED COPPER.
3. PROVIDE ALL FUSES FOR ALL EQUIPMENT WHERE FUSES ARE REQUIRED. SIZE ALL FUSES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
4. ALL ELECTRICAL WIRING SHALL BE IN CONDUIT (NO ROMEX, SX. ETC.). ALL CONDUIT SHALL BE INTERMEDIATE METALLIC CONDUIT (IMC) OR RIDGED GALVANIZED STEEL (RGS) EXCEPT THAT:
   a. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN, OR ON WALLS AND/OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP AND/OR CORROSIVE CONDITIONS.
5. ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE, UNLESS OTHERWISE NOTED.
6. WHERE OPENINGS MUST BE FIRE SEALED, USE FIRE SEAL SIMILAR TO "OZ".

C. METHODS:

1. ALL FEEDERS, SUB FEEDERS AND BRANCH CIRCUITS SHALL BE PROPERLY PHASED BALANCED.
2. WIREWAYS SHALL BE SIZED IN ACCORDANCE WITH THE NEC UNLESS OTHERWISE NOTED.
3. ELECTRICAL CONTRACTOR SHALL VERIFY REQUIREMENTS, EXACT LOCATIONS AND TYPE OF OUTLET FOR ALL ELECTRICAL EQUIPMENT.
4. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE IN WEATHERPROOF ENCLOSURES.
5. ALL PULL AND JUNCTION BOXES SHALL BE INSTALLED IN SUCH A MANNER THAT THEY WILL BE ACCESSIBLE AT ALL TIMES.

D. TESTS:

1. CONTRACTOR SHALL BE RESPONSIBLE TO CALL FOR ALL REQUIRED INSPECTIONS BY THE AUTHORITIES HAVING JURISDICTION AS THE WORK PROGRESSES
2. CONTRACTOR SHALL PERFORM TESTS ON ALL INSTALLED ELECTRICAL EQUIPMENT TO INSURE THAT ALL COMPONENTS OPERATE AS REQUIRED TO PROVIDE A COMPLETE OPERATING ELECTRICAL SYSTEM. PERFORM ANY ADDITIONAL TEST AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION. ALL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE LATEST EDITION AND IN ACCORDANCE WITH ANY LOCAL CODES AND ORDINANCES.



ELECTRICAL RISER
N.T.S.

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Architects & Engineers

CHARLES E. CULPEPPER, JR.
825 BRICKELL BAY DRIVE
SUITE 346
MIAMI, FLORIDA 33131
TEL: (305) 372-5189
CELL: (786) 402-7617
EMAIL: sjirap@bellsouth.net
ARCHITECTURAL · CIVIL · ELECTRICAL · ENVIRONMENTAL
MECHANICAL STRUCTURAL
MIAMI · NEW YORK · CHICAGO

PROJECT NAME

SMOKE EXHAUST
FAN SYSTEM

SOBE HOSTEL
235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER JR. LICENSE No. 14203 STATE OF FLORIDA PROFESSIONAL ENGINEER

CHARLES E. CULPEPPER, JR.
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW YORK LICENSE NO. 16-066511
STATE OF ILLINOIS LICENSE NO. 062-043107
STATE OF FLORIDA LICENSE NO. 14203

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Issue Date: SEPTEMBER 15, 2020

Revisions

No.	Date	Description

CULPEPPER

Project Number: 20-169 Drawn By: CEC
Designed By: CEC Checked By: CEC

Sheet Title: ELECTRICAL DETAILS

Sheet Number: E-1 1 OF 1

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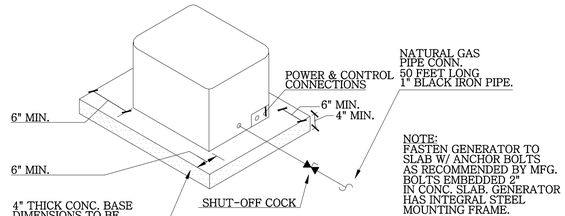
AERIAL SITE PLAN: 235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA
N.T.S.

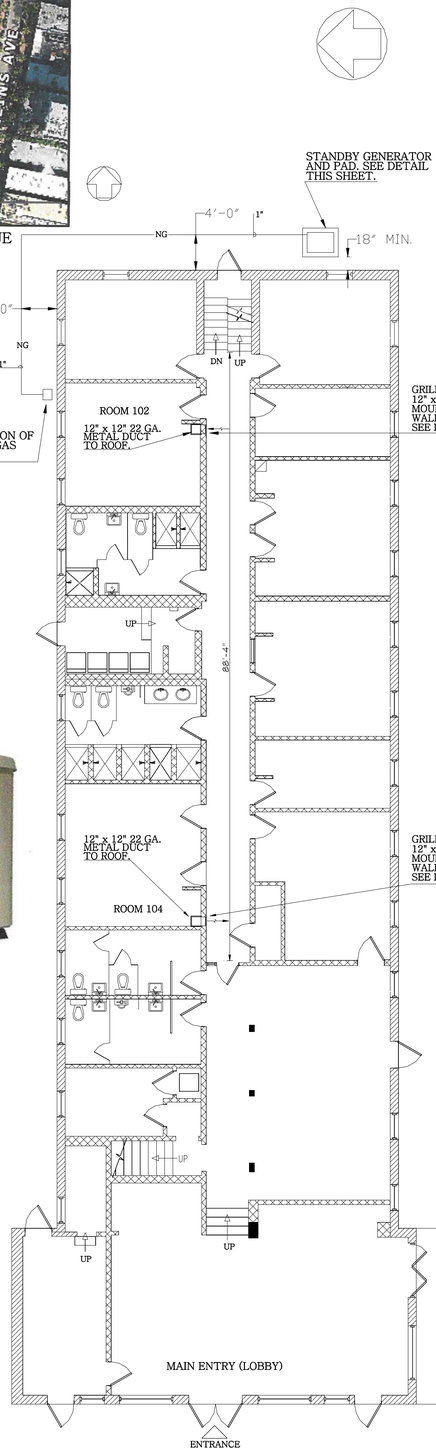
GREENHECK
Model: CUBE-141-5
Belt Drive Upblast Centrifugal Roof Exhaust Fan

GENERAC
Model: 6698
Standby Generator
7.5 KW

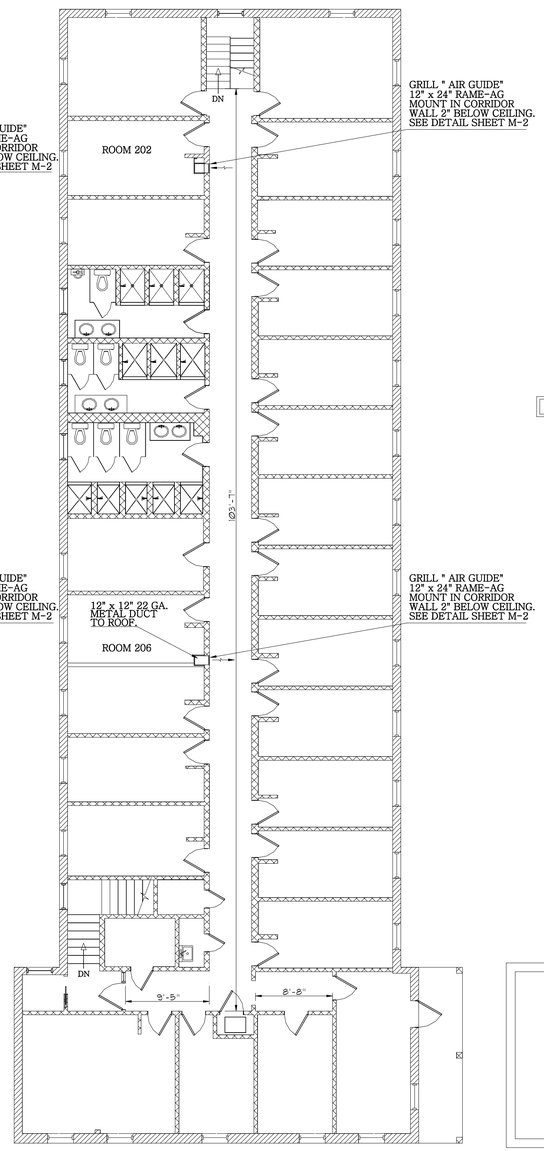
DATON MFG
Model: 5NKK3
Motorized Damper
120 Volts



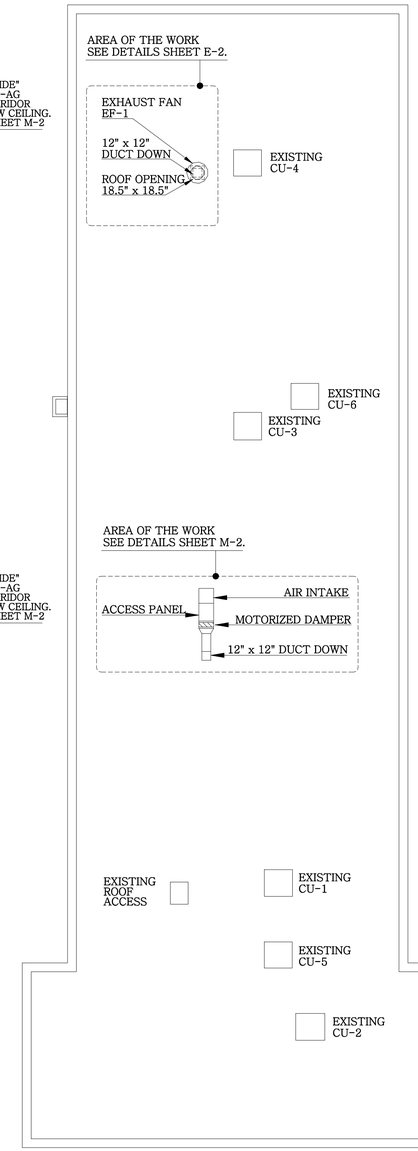
GENERATOR MOUNTING DETAIL
N.T.S.



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



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

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1. THE SCOPE OF THE WORK IS TO FURNISH ALL LABOR AND PROVIDE AND INSTALL ALL NECESSARY MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE OPERATING SMOKE EXHAUST SYSTEM IN ACCORDANCE WITH THE GENERAL NOTES INCLUDED HEREIN AND THE SPECIFIC NOTES TO FOLLOW.
2. THE COMPLETE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED, TO THE FOLLOWING:
   A. EXHAUST FAN.
   B. MOTORIZED DAMPER.
   C. STANDBY GENERATOR.
   D. AIR DUCTS AND GRILLES.
   E. ALL CONTROLS.
   F. ALL ELECTRICAL POWER AND CONTROL WIRING.
   G. ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING SYSTEM.
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11. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER.
12. CONTRACTOR SHALL LEAVE THE WORK AREA IN A BROOM CLEAN CONDITION AT THE END OF EACH WORK DAY.
13. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL TRASH AND DEBRIS. DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH ALL LAWS AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
14. THIS CONTRACTOR SHALL WARRANT AND GUARANTEE THE COMPLETE INSTALLATION AGAINST DEFECTIVE MATERIAL AND/OR IMPROPER WORKMANSHIP FOR A MINIMUM OF ONE YEAR. FOR MATERIALS FOR WHICH THE MANUFACTURER HAS A LONGER WARRANTY OR GUARANTEE, THE LONGER PERIOD SHALL APPLY.
15. FURNISH AS-BUILT DRAWINGS TO THE OWNER UPON COMPLETION OF THE WORK.
16. CONTRACTOR SHALL CORRECT ANY DEFECTS WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
17. IN THE EVENT IT BECOMES NECESSARY FOR THIS CONTRACTOR TO CORRECT ANY IMPROPER WORKMANSHIP, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COLLATERAL DAMAGE TO EXISTING MATERIALS AND/OR EQUIPMENT WHICH MAY OCCUR AS A RESULT OF ANY CORRECTIONS TO HIS/HER OWN WORK IN COMPLIANCE WITH THIS REQUIREMENT. THIS INCLUDES ANY STRUCTURAL DAMAGE OR ANY DAMAGES TO FINISHES.

MECHANICAL NOTES:

MATERIALS:

1. ALL EXHAUST DUCTWORK SHALL BE 22 GAUGE GALVANIZED SHEET STEEL.
2. ALL FASTENERS SHALL BE ZINC PLATED AND SHALL CONFORM TO ASTM A325.
3. ALL STEEL ANGLES AND PLATES SHALL CONFORM TO ASTM A-36.
4. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A187-97.
5. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

METHODS:

1. INSTALL ALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS MANUALS AND RECOMMENDATIONS. PAY SPECIAL ATTENTION TO REQUIRED CLEARANCES FOR INSTALLATION, OPERATION AND MAINTENANCE.
2. PERFORM ALL WORK IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF SMACNA, THE NFPA, THE FLORIDA BUILDING CODE LATEST EDITION AND WITH ALL LOCAL CODES, ORDINANCES AND REGULATIONS.
3. PROVIDE DOUBLE THICKNESS TURNING VANES AT ALL SQUARE ELBOWS.

MIAMIBEACH
BUILDING DEPARTMENT
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Architects + Engineers

CHARLES E. CULPEPPER, JR.
825 BRICKELL BAY DRIVE
SUITE 346
MIAMI, FLORIDA 33131
TEL: (305) 372-5189
CELL: (786) 402-7617
EMAIL: sjirap@bellsouth.net
ARCHITECTURAL · CIVIL · ELECTRICAL · ENVIRONMENTAL
MECHANICAL · STRUCTURAL
MIAMI · NEW YORK · CHICAGO

PROJECT NAME

SMOKE EXHAUST FAN SYSTEM

SOBE HOSTEL
235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER JR. LICENSE No. 14203 STATE OF FLORIDA PROFESSIONAL ENGINEER

CHARLES E. CULPEPPER, JR.
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STATE OF NEW YORK LICENSE NO. 16-066511
STATE OF ILLINOIS LICENSE NO. 062-043107
STATE OF FLORIDA LICENSE NO, 14203

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Issue Date: SEPTEMBER 15, 2020

Revisions

No.	Date	Description

CULPEPPER

Project Number: 20-169 Drawn By: CEC
Designed By: CEC Checked By: CEC

Sheet Title: EXHAUST FAN FLOOR PLANS

Sheet Number: M-1 1 OF 2

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PROJECT NAME

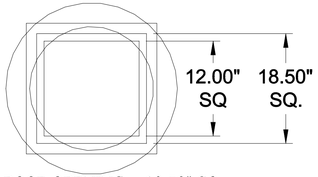
SMOKE EXHAUST FAN SYSTEM

SOBE HOSTEL
235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA 33139

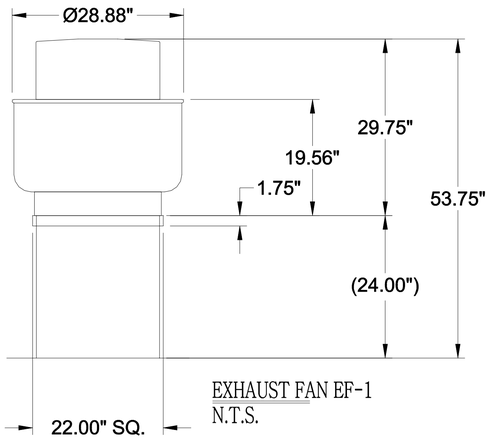
Belt Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION							MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	Mark 2	CUBE-141-5	1,500	0.75	1,228	0.39	78	0.5	115/60/1	OP	1725	1	9.8

*NEC FLA - Based on table 430.□250 or 430.□248 of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"



ROOF OPENING = 18.50" SQ.
EXHAUST DUCT SIZE = 12.00" SQ.



EXHAUST FAN EF-1
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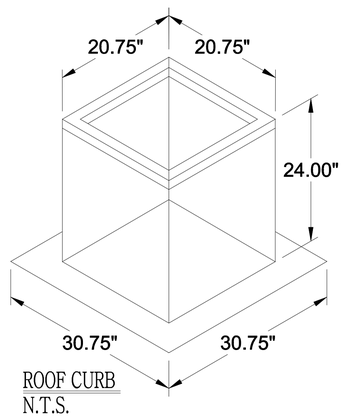

ROOF CURB
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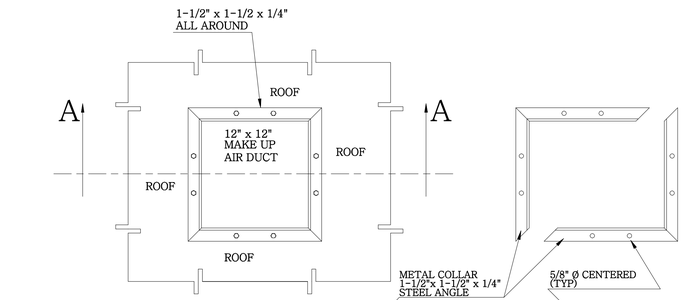
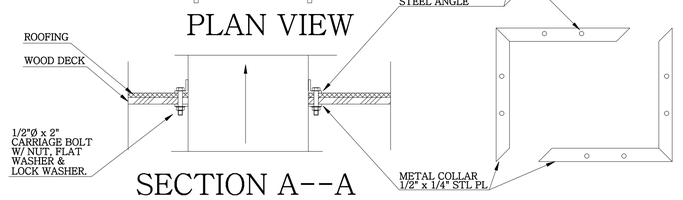
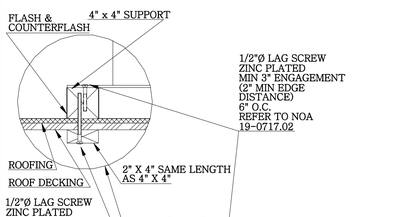


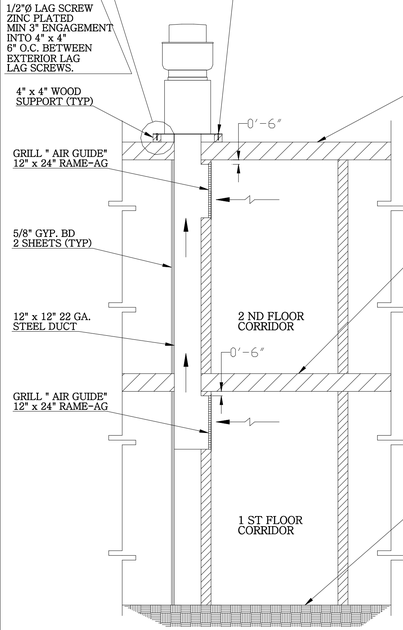
PLAN VIEW



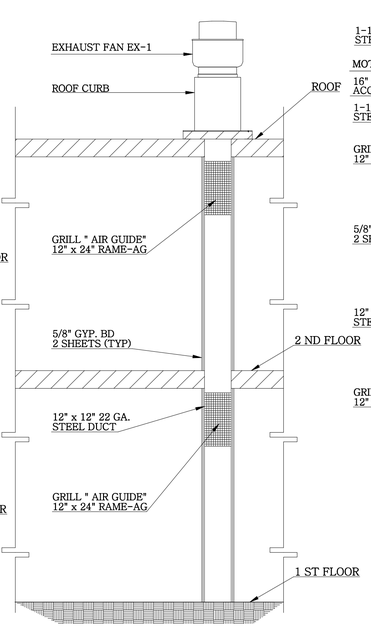
SECTION A--A

EXHAUST FAN	
Dimensional	
Quantity	1
Weight w/o Acc's (lb)	74 LBS
Weight w/ Acc's (lb)	78 LBS
Weight w/ Acc's and Curb (lb)	125 LBS
Max T Motor Frame Size	145
Roof Opening (in.)	18.5" x 18.5"
Performance	
Volume (CFM)	1,500
Total External SP (in. wg)	0.75
Fan RPM	1228
Operating Power (hp)	0.39
Motor	
Motor Mounted	Yes
Size (hp)	1/2
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Motor RPM	1725
Efficiency Rating	Standard
Windings	1
NEC FLA* (Amps)	9.8





NORTH-SOUTH SECTION THRU EXHAUST DUCT
N.T.S.



EAST-WEST SECTION THRU EXHAUST DUCT
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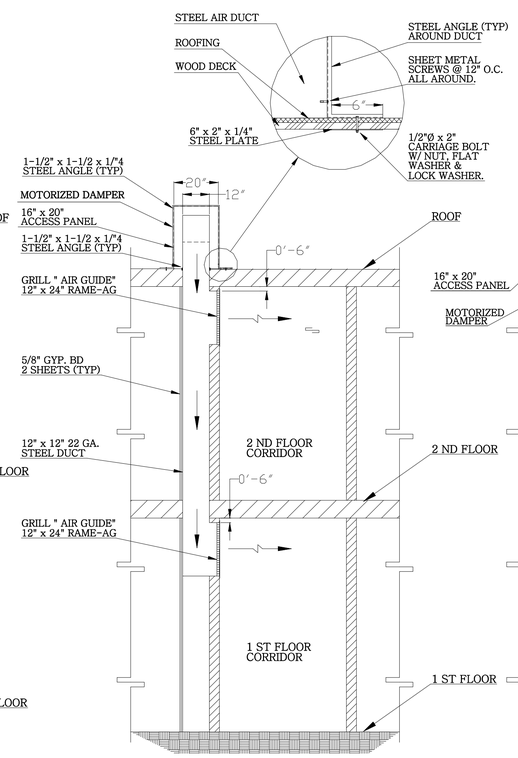
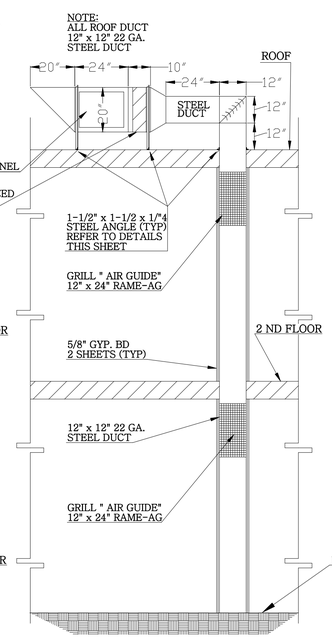


NORTH-SOUTH SECTION THRU MAKE-UP AIR DUCT
N.T.S.



EAST-WEST SECTION THRU MAKE-UP AIR DUCT
N.T.S.

Mark 2 : SELECTED OPTIONS AND ACCESSORIES

Standard curb cap size - 22 in. square
UL Listed - Power Vents for Smoke Control Systems (500F/4hrs + 1000F/15 mins)
Switch, NEMA-3R, Toggle, Shipped with Unit
High Wind Rated (+/- 150 PSF Rating)
Florida Product Approval #FL13225.1 & Miami-Dade NOA #19-0717.02
Coated with Hi-Pro Polyester, Concrete Gray-RAL 7023, Fan And Attached Acc
Heat Baffle (Attached)
Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)
Steel Wheel Material

MOTORIZED DAMPER	
QUANTITY	1
MFG	DATON MFG
MODEL #	5NKK3
OPENING REQUIRED	20" x 20"
NO OF "F" PANELS	1
START	AUTOMATIC *
FLANGE WIDTH	1/2"
MATERIAL	ALUMINUM
ELEC. CHAR.	120/60/1

* NORMAL STATUS: SPRING CLOSED, POWER OPEN

STANDBY GENERATOR	
QUANTITY	1
MFG	GENERAC
MODEL #	6998
RATED WATTS	7.5 KW
FUEL TYPE	NATURAL GAS
FLOW RATE	117,000 BTU/HR.
AMPERES	25 NG
START	AUTOMATIC
PHASE	SINGLE
TRANSFER SW	YES
CIRCUITS	8
ELEC. CHAR.	240/60/1
ENCLOSURE	STEEL/NEMA 3R
MOUNTING PAD	ATTACHED
BATTERY REQUIRED	YES
BATTERY INCLUDED	NO
DIMENSIONS (L x W x H)	36 x 27 x 36
WEIGHT	280 LBS

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Issue Date: SEPTEMBER 15, 2020

Revisions

No.	Date	Description

CULPEPPER

Project Number: 20-169 Drawn By: CEC
Designed By: CEC Checked By: CEC
Sheet Title: DETAILS
Sheet Number: M-2 2 OF 2

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AERIAL SITE PLAN: 235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA
N.T.S.

GREENHECK
Model: CUBE-141-5
Belt Drive Upblast Centrifugal Roof Exhaust Fan

GENERAC
Model: 6698
Standby Generator
7.5 KW

DATON MFG
Model: 5NKK3
Motorized Damper
120 Volts

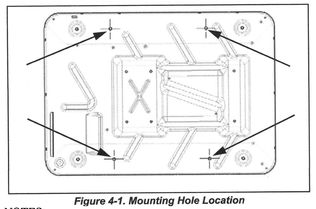


Figure 4-1. Mounting Hole Location

NOTES:
1. THE TOP OF THE GENERATOR CARTON HAS A TEMPLATE THAT CAN BE USED TO MARK THE MOUNTING HOLES.
2. USE 5/16" ANCHOR BOLTS.
3. GENERATOR MUST BE LEVEL WITHIN 0.5 INCHES.
4. REFER TO SHEET P-1 FOR GAS PIPING LOCATIONS:
5. REFER TO SHEET S-1 FOR INFORMATION ON STRUCTURAL SUPPORTS.
6. REFER TO SHEET E-1 FOR INFORMATION ON POWER AND CONTROL WIRING.

LOCATION OF FOUR MOUNTING HOLES INSIDE THE GENERATOR ENCLOSURE
N.T.S.

SHOP DRAWING / SUBMITTAL REVIEW

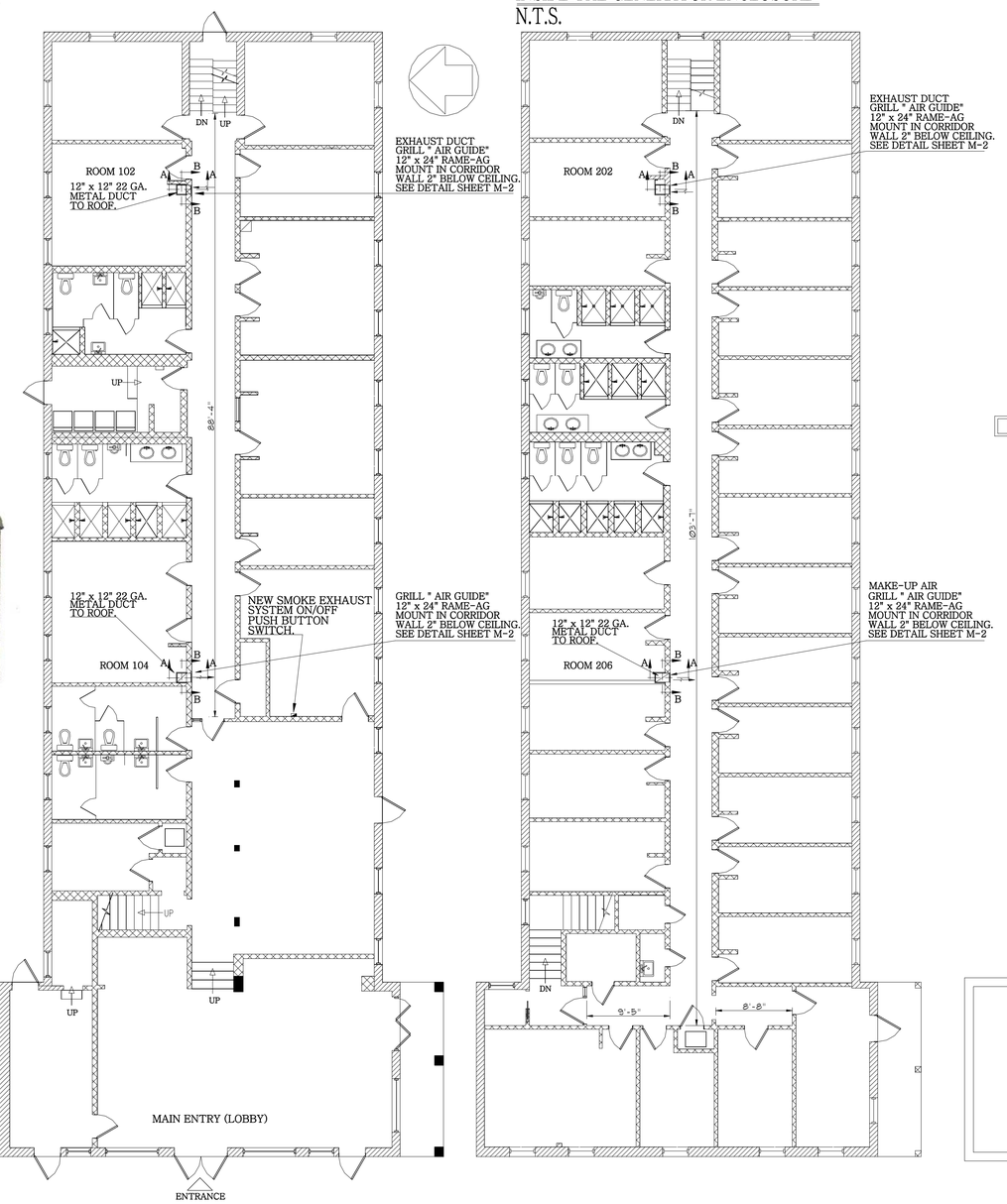
☑ APPROVED ☐ APPROVED WITH CHANGES NOTED
☐ REVISE AND RESUBMIT ☐ REJECTED

SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOB SITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.

BY: RPA DATE: 7/15/21

RICARDO PEREZ DE ALEJO
RPA ENGINEERING, INC,

RICARDO PEREZ DE ALEJO LICENSE No. 58728 STATE OF FLORIDA PROFESSIONAL ENGINEER



FIRST FLOOR PLAN
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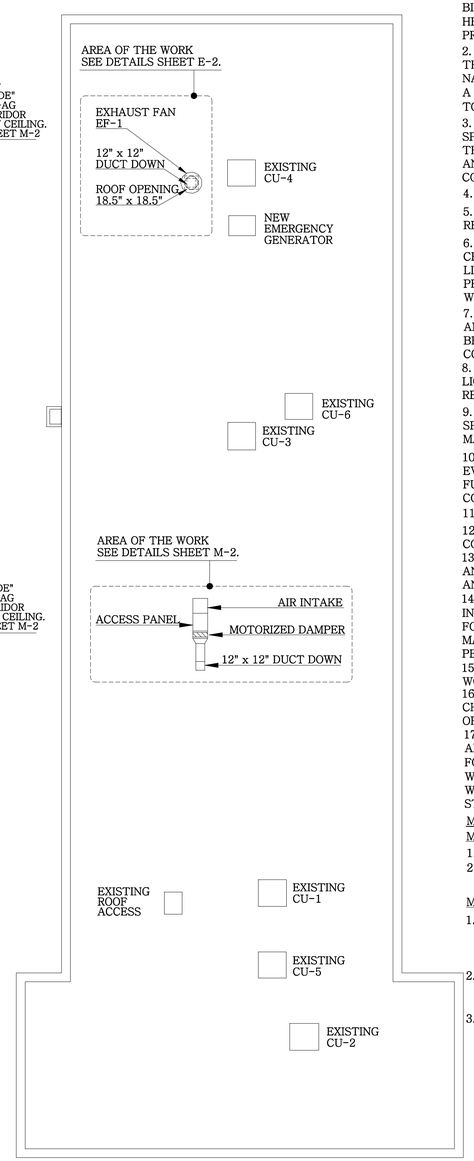
SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



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8. CONTRACTOR SHALL ARRANGE AND PAY FOR ALL REQUIRED PERMITS, FEES, LICENSES, INSPECTIONS, CONNECTIONS, TESTS AND OTHER CHARGES AS REQUIRED. OBTAIN ALL THE REQUIRED CERTIFICATES AND PRESENT TO OWNER.
9. CONTRACTOR IS DIRECTED TO REVIEW ALL THE BUILDING PLANS AND SPECIFICATIONS FOR LIMITATIONS OF CONSTRUCTION, IDENTIFICATION OF MATERIALS AND PRODUCTS, AND DEFINITION OF WORKMANSHIP.
10. IT IS NOT THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS REQUIRED TO MEET THE OBJECTIVES OF THE CONSTRUCTION AS DELINEATED HEREIN.
11. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER.
12. CONTRACTOR SHALL LEAVE THE WORK AREA IN A BROOM CLEAN CONDITION AT THE END OF EACH WORK DAY.
13. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL TRASH AND DEBRIS. DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH ALL LAWS AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
14. THIS CONTRACTOR SHALL WARRANT AND GUARANTEE THE COMPLETE INSTALLATION AGAINST DEFECTIVE MATERIAL AND/OR IMPROPER WORKMANSHIP FOR A MINIMUM OF ONE YEAR. FOR MATERIALS FOR WHICH THE MANUFACTURER HAS A LONGER WARRANTY OR GUARANTEE, THE LONGER PERIOD SHALL APPLY.
15. FURNISH AS-BUILT DRAWINGS TO THE OWNER UPON COMPLETION OF THE WORK.
16. CONTRACTOR SHALL CORRECT ANY DEFECTS WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
17. IN THE EVENT IT BECOMES NECESSARY FOR THIS CONTRACTOR TO CORRECT ANY IMPROPER WORKMANSHIP, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COLLATERAL DAMAGE TO EXISTING MATERIALS AND/OR EQUIPMENT WHICH MAY OCCUR AS A RESULT OF ANY CORRECTIONS TO HIS/HER OWN WORK IN COMPLIANCE WITH THIS REQUIREMENT. THIS INCLUDES ANY STRUCTURAL DAMAGE OR ANY DAMAGES TO FINISHES.

MECHANICAL NOTES:

MATERIALS:

1. ALL EXHAUST DUCTWORK SHALL BE 22 GAUGE GALVANIZED SHEET STEEL.
2. ALL FASTENERS SHALL BE ZINC PLATED AND SHALL CONFORM TO ASTM A325.

METHODS:

1. INSTALL ALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS MANUALS AND RECOMMENDATIONS. PAY SPECIAL ATTENTION TO REQUIRED CLEARANCES FOR INSTALLATION, OPERATION AND MAINTENANCE.
2. PERFORM ALL WORK IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF SMACNA, THE NFPA, THE FLORIDA BUILDING CODE LATEST EDITION AND WITH ALL LOCAL CODES, ORDINANCES AND REGULATIONS.
3. PROVIDE DOUBLE THICKNESS TURNING VANES AT ALL SQUARE ELBOWS.

MIAMIBEACH
BUILDING DEPARTMENT
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BC2013662
08/03/2021 2:54:01 PM

Architects Engineers
CHARLES E. CULPEPPER, JR.
825 BRICKELL BAY DRIVE
SUITE 346
MIAMI, FLORIDA 33131
TEL: (305) 372-5189
CELL: (786) 402-7617
EMAIL: sjirap@bellsouth.net
ARCHITECTURAL · CIVIL · ELECTRICAL· ENVIRONMENTAL
MECHANICAL STRUCTURAL
MIAMI · NEW YORK · CHICAGO

PROJECT NAME

SMOKE EXHAUST FAN SYSTEM

SOBE HOSTEL
235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER LICENSE No. 14203 STATE OF FLORIDA PROFESSIONAL ENGINEER

CHARLES E. CULPEPPER, JR.
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW YORK LICENSE NO. 16-066511
STATE OF ILLINOIS LICENSE NO. 062-043107
STATE OF FLORIDA LICENSE NO. 14203

charles e culpepper
Digitally signed by charles e culpepper
Date: 2021.07.06 23:37:58 -04'00'

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Issue Date: JUNE 23, 2021

Revisions

No.	Date	Description

CULPEPPER

Project Number: 20-169 Drawn By: CEC
Designed By: CEC Checked By: CEC

Sheet Title: EXHAUST FAN FLOOR PLANS

Sheet Number: M-1 1 OF 2

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THE GENERAL CONTRACTOR AND ALL TRADES PERFORMING WORK ON THIS PROJECT SHALL BE EXCLUSIVELY RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AND WITH REPORTING ANY DISCREPANCIES TO CHARLES E. CULPEPPER, JR. BEFORE COMMENCING ANY WORK.

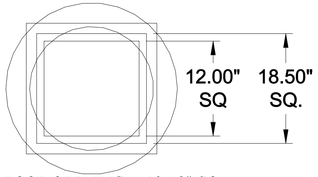
MIAMIBEACH
BUILDING DEPARTMENT
Reviewed For Compliance
BC2013662
08/03/2021 2:54:01 PM

Architects
Engineers
CHARLES E. CULPEPPER, JR.
825 BRICKELL BAY DRIVE
SUITE 346
MIAMI, FLORIDA 33131
TEL: (305) 372-5189
CELL: (786) 402-7617
EMAIL: sjirap@bellsouth.net
ARCHITECTURAL · CIVIL · ELECTRICAL· ENVIRONMENTAL
MECHANICAL · STRUCTURAL
MIAMI · NEW YORK · CHICAGO

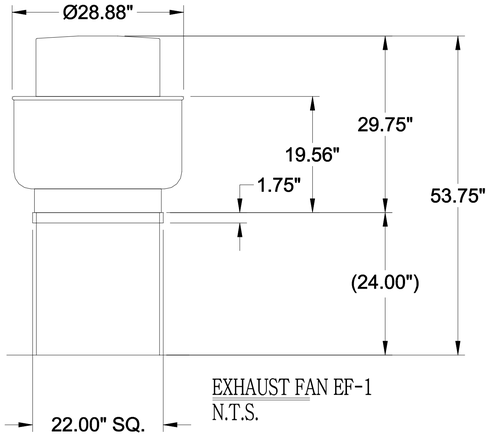
PROJECT NAME

SMOKE EXHAUST FAN SYSTEM

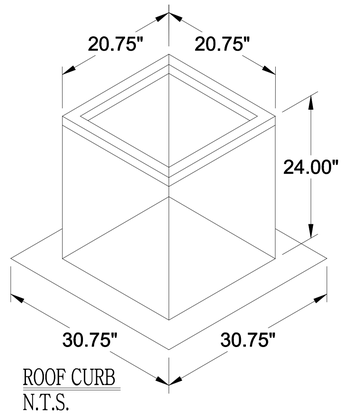
SOBE HOSTEL
235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA 33139



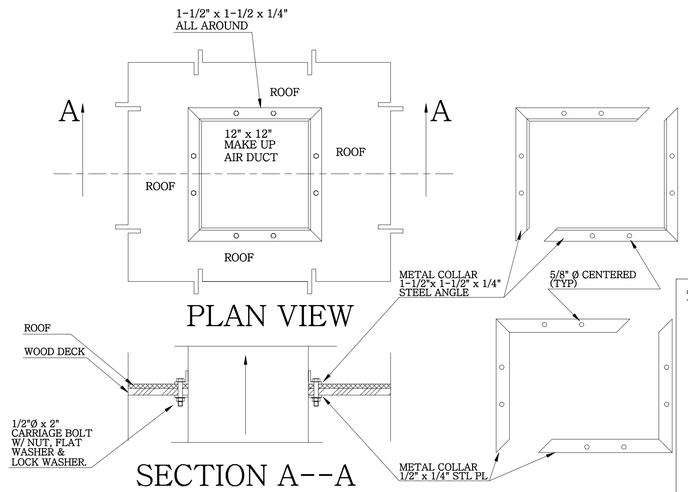
ROOF OPENING = 18.50" SQ.
EXHAUST DUCT SIZE = 12.00" SQ.



EXHAUST FAN EF-1
N.T.S.



ROOF CURB
N.T.S.



Belt Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION							MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	Mark 2	CUBE-141-5	1,500	0.75	1,228	0.39	78	0.5	115/60/1	OP	1725	1	9.8

*NEC FLA - Based on table 430.□250 or 430.□248 of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"

EXHAUST FAN	
Dimensional	
Quantity	1
Weight w/o Acc's (lb)	74 LBS
Weight w/ Acc's (lb)	78 LBS
Weight w/ Acc's and Curb (lb)	125 LBS
Max T Motor Frame Size	145
Roof Opening (in.)	18.5" x 18.5"
Performance	
Volume (CFM)	1,500
Total External SP (in. wg)	0.75
Fan RPM	1228
Operating Power (hp)	0.39
Motor	
Motor Mounted	Yes
Size (hp)	1/2
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Motor RPM	1725
Efficiency Rating	Standard
Windings	1
NEC FLA* (Amps)	9.8

SHOP DRAWING / SUBMITTAL REVIEW

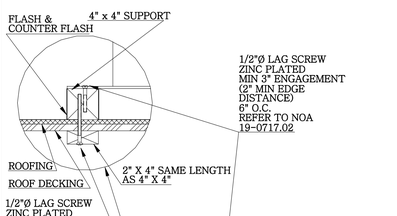
☑ APPROVED ☐ APPROVED WITH CHANGES NOTED
☐ REVISE AND RESUBMIT ☐ REJECTED

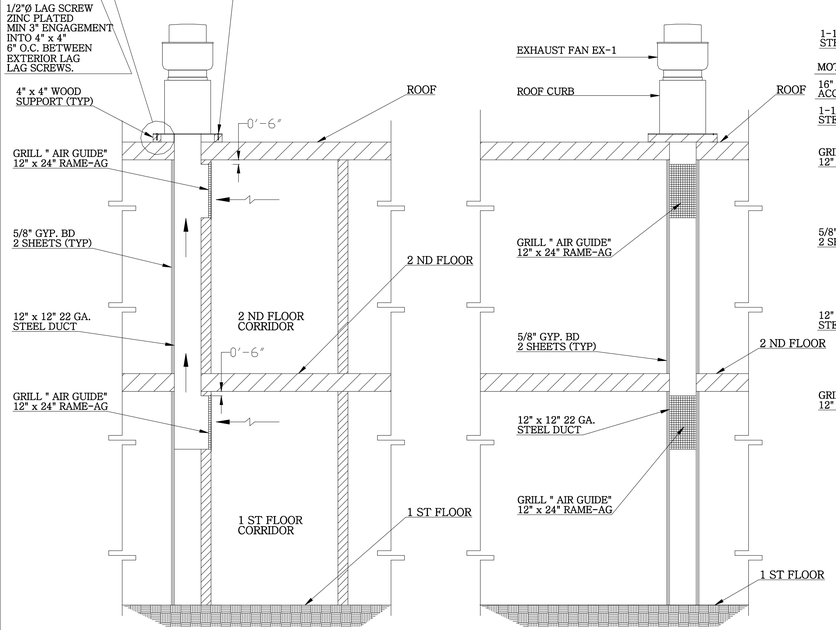
SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOB SITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.

BY: RPA DATE: 7/15/21

RICARDO PEREZ DE ALEJO
RPA ENGINEERING, INC,

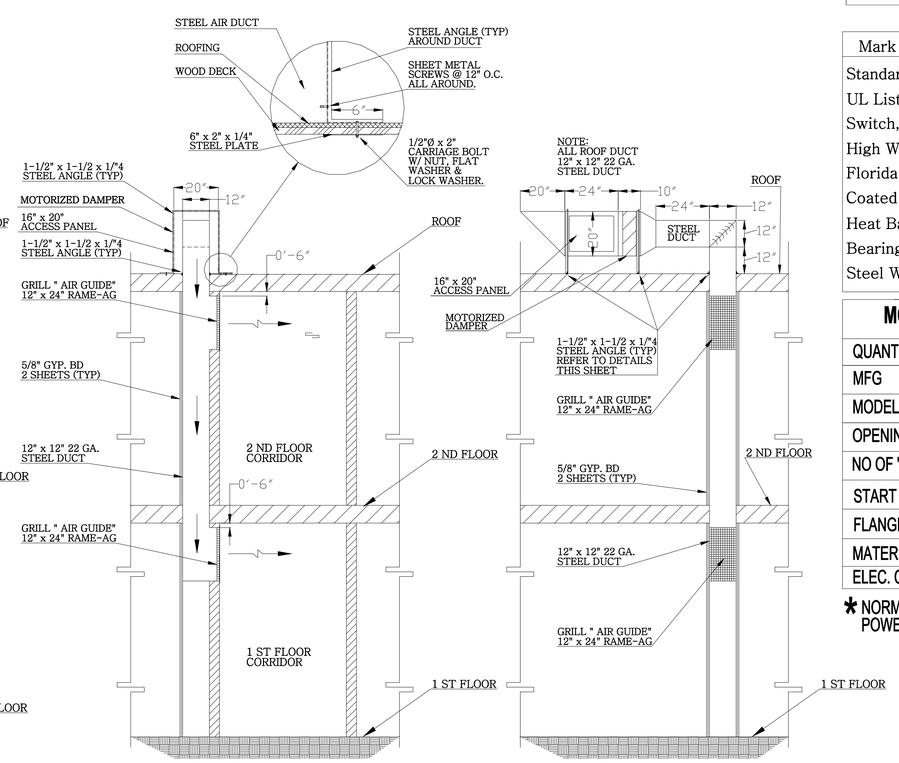
RICARDO PEREZ DE ALEJO LICENSE No. 58728 STATE OF FLORIDA PROFESSIONAL ENGINEER





NORTH-SOUTH SECTION THRU EXHAUST DUCT
SECTION A - A
N.T.S.

EAST-WEST SECTION THRU EXHAUST DUCT
SECTION B - B
N.T.S.



NORTH-SOUTH SECTION THRU MAKE-UP AIR DUCT
SECTION A - A
N.T.S.

EAST-WEST SECTION THRU MAKE-UP AIR DUCT
SECTION B - B
N.T.S.

Mark 2 : SELECTED OPTIONS AND ACCESSORIES

Standard curb cap size - 22 in. square
UL Listed - Power Vents for Smoke Control Systems (500F/4hrs + 1000F/15 mins)
Switch, NEMA-3R, Toggle, Shipped with Unit
High Wind Rated (+/- 150 PSF Rating)
Florida Product Approval #FL13225.1 & Miami-Dade NOA #19-0717.02
Coated with Hi-Pro Polyester, Concrete Gray-RAL 7023, Fan And Attached Acc
Heat Baffle (Attached)
Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)
Steel Wheel Material

MOTORIZED DAMPER	
QUANTITY	1
MFG	DATON MFG
MODEL #	5NKK3
OPENING REQUIRED	20" x 20"
NO OF "F" PANELS	1
START	AUTOMATIC *
FLANGE WIDTH	1/2"
MATERIAL	ALUMINUM
ELEC. CHAR.	120/60/1

* NORMAL STATUS: SPRING CLOSED, POWER OPEN

STANDBY GENERATOR	
QUANTITY	1
MFG	GENERAC
MODEL #	6998
RATED WATTS	7.5 KW
FUEL TYPE	NATURAL GAS
FLOW RATE	117,000 BTU/HR.
AMPERES	25 NG
START	AUTOMATIC
PHASE	SINGLE
TRANSFER SW	YES
CIRCUITS	8
ELEC. CHAR.	240/60/1
ENCLOSURE	STEEL/NEMA 3R
MOUNTING PAD	ATTACHED
BATTERY REQUIRED	YES
BATTERY INCLUDED	NO
DIMENSIONS (L x W x H)	36 x 27 x 36
WEIGHT	280 LBS

CHARLES E. CULPEPPER, JR. LICENSE No. 14203 STATE OF FLORIDA PROFESSIONAL ENGINEER

CHARLES E. CULPEPPER, JR.
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW YORK LICENSE NO. 16-066511
STATE OF ILLINOIS LICENSE NO. 062-043107
STATE OF FLORIDA LICENSE NO, 14203

charles e culpepper
Digitally signed by charles e culpepper
Date: 2021.07.06 23:38:45 -04'00'

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Issue Date: JUNE 23, 2021

Revisions

No.	Date	Description

CULPEPPER

Project Number: 20-169 Drawn By: CEC
Designed By: CEC Checked By: CEC

Sheet Title: DETAILS

Sheet Number: M-2 2 OF 2

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BUILDING DEPARTMENT
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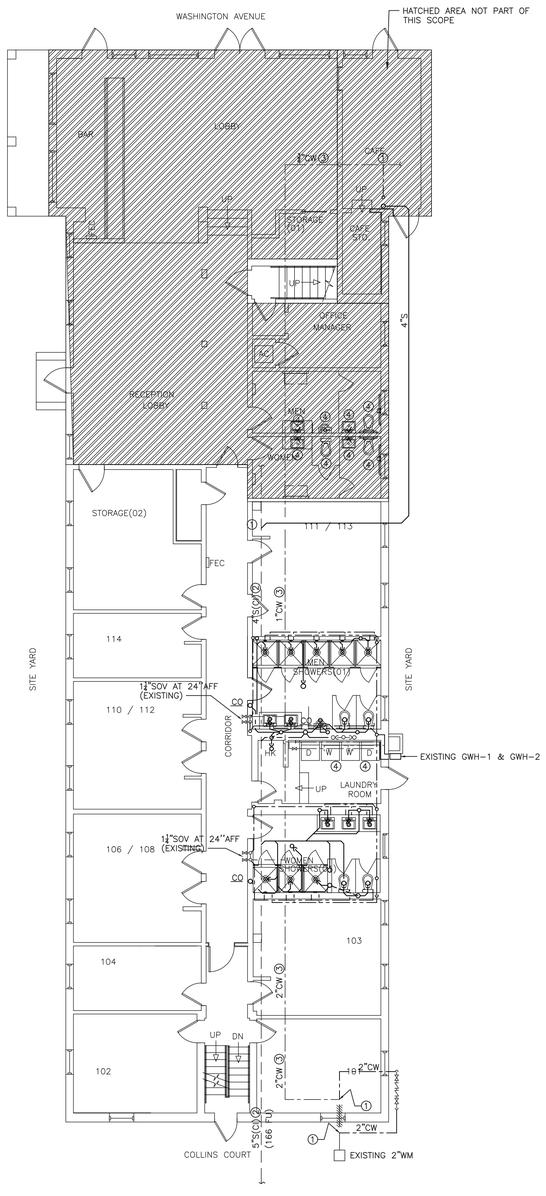
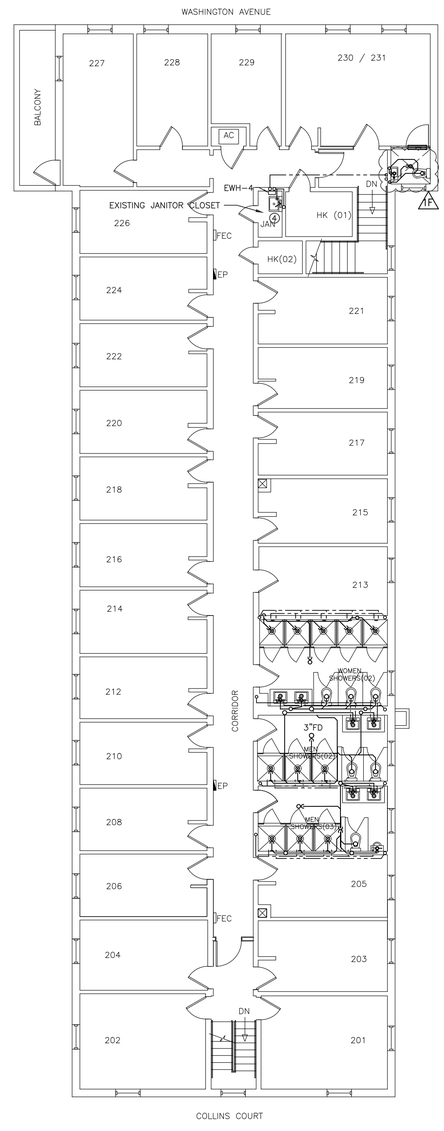
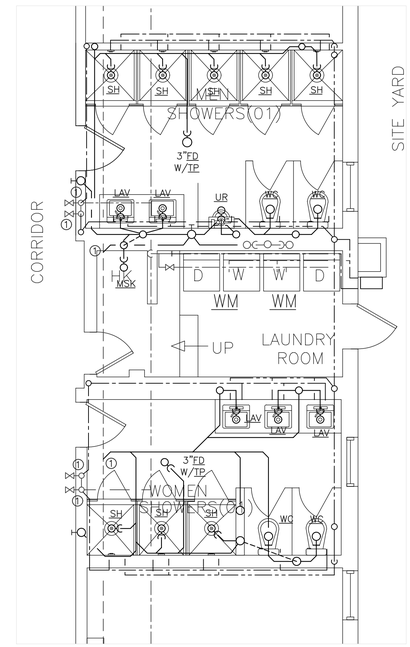


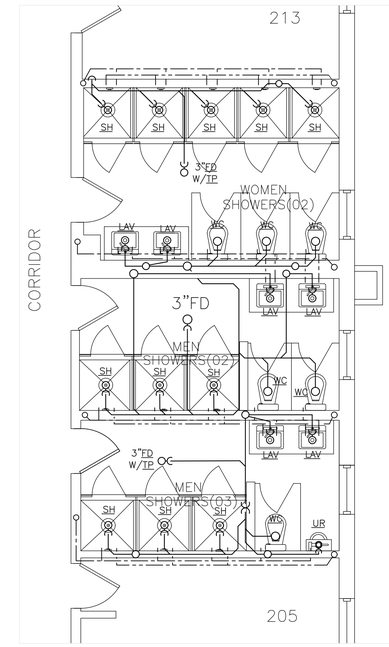
1 LEVEL ONE - PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"



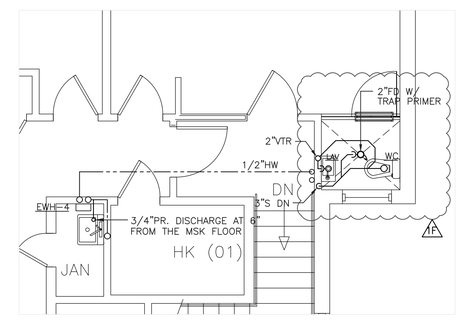
2 LEVEL TWO - PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"



PARTIAL LEVEL ONE



PARTIAL LEVEL TWO



PARTIAL LEVEL TWO

NOTE.
FOR THE NEW EMERGENCY GENERATOR GAS PIPE LAYOUT SEE THE ATTACHED SPECIALTY ENGINEER SYSTEM DRAWINGS.

CONSTRUCTION NOTES:
1. TIE-IN TO EXISTING.
2. EXISTING DRAINAGE/VENT PIPES TO REMAIN.
3. EXISTING WATER PIPES TO REMAIN.
4. EXISTING PLUMBING FIXTURE TO REMAIN.

DO NOT SEND THIS SET OF PLUMBING PLANS FOR CONSTRUCTION PRICE UNTIL BEEN APPROVED FOR THE BUILDING DEPARTMENT.

Ricardo Perez de Alejo
Digitally signed by Ricardo Perez de Alejo
Date: 2021.06.16 12:22:52 -04'00'

RPA Engineering
PROVIDING MEP SOLUTIONS
7930 NW 107th St.
Miami, Florida, 33015
Phone: 305 308 9857
Fax: 305 829 3647
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO
LICENSE
No. 58728
STATE OF FLORIDA
PROFESSIONAL ENGINEER
RICARDO PEREZ, P.E. 58728

Rev.	Date	Rev.	Date
1 P.P.C.	11/23/20		
2 B.D.C.	02/04/21		
3 NOT USED			
4 ZONING COMMENT	04/01/21		
5 B.D.C. (BUILDING)	04/19/21		
6 NOT USED			
7 B.D.C. (PLUMBING)	06/16/21		

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SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

KOBI KARP
Lic. # AR0012578

PROPOSED PLUMBING LEVELS 1 & 2

Date	JUNE 08, 2020	Sheet No.
Scale	AS INDICATED	P101
Project	1967	

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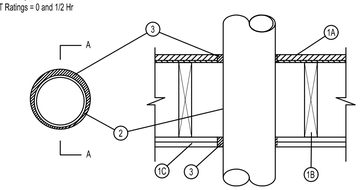
System No. F-C-1059

F Ratings = 1 and 2 Hr
T Ratings = 0 and 1/2 Hr



SECTION A-A

1. Floor–Ceiling Assembly -- The 1 or 2 hr fire–rated solid or trussed lumber joist floor–ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor–Ceiling Designs in the UL Fire Resistance Directory. The F Rating of the firestop system is equal to the rating of the floor–ceiling and wall assemblies. The general construction features of the floor–ceiling assembly are summarized below:
   A. Flooring System -- Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor–Ceiling Design. Max diam of opening shall be 7–5/8 in.
   B. Wood Joists* -- Nom 10 in deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
   C. Gypsum Board* -- Thickness, type, number of layers and fasteners shall be as specified in the individual Floor–Ceiling Design. Diam of opening shall be 1 in. larger than the outside diam of pipe (Item 2).
   D. Furring Channels -- (Not Shown) (As required) Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Designs in the Fire Resistance Directory.

1.1 Chase Wall -- (Not Shown, Optional)--The through penetrants (Item 2) may be routed through a 1 or 2 hr fire–rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor–ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features :
   A. Studs -- Nom 2 by 8 in. lumber or double nom 2 by 6 in. lumber studs.
   B. Sole Plate -- Nom 2 by 8 in. lumber or parallel 2 by 6 in. lumber plates, tightly butted.
   C. Top Plate -- The double top plate shall consist of two nom 2 by 8 in. lumber plates or two sets of nom 2 by 6 in. lumber plates tightly butted. Max diam of opening is 7–5/8 in.
   D. Gypsum Board* -- Thickness, type, number or layers and fasteners shall be as specified in individual Wall and Partition Designs.

2. Through Penetrants -- One metallic tubing, pipe or conduit to be installed concentrically or eccentrically within the firestop system. Annular space between pipe or conduit and edge of opening to be min 1/4 in. and max 3/4 in. Pipe, tubing or conduit to be rigidly supported on both sides of floor–ceiling assembly. The following types and sizes of metallic pipes, tubing or conduit may be used:
   A. Steel Pipe -- Nom 6 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Iron Pipe -- Nom 6 in. diam (or smaller) cast or ductile pipe.
   C. Conduit -- Nom 4 in. diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.
   D. Steel Flexible Metal Conduit + -- Nom 2 in. diam (or smaller) steel flexible metal conduit. See Flexible Metal Conduit (DXUZ) category in the Electrical Construction Materials Directory for names of manufacturers.

3. Fill, Void or Cavity Material*--Sealant -- Min 5/8 in. or 1–1/4 in. thickness of sealant applied within annular space, flush with the bottom surface of gypsum wallboard or lower top plate for 1 and 2 hr floors respectively. Min. 3/4 in. thickness of sealant applied within annular space, flush with top surface of floor. HILTI INC -- FS–ONE Sealant

+Bearing the UL Listing Mark.
*Bearing the UL Classification Mark

HILTI FIRESTOP SYSTEMS

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. August 11, 2003

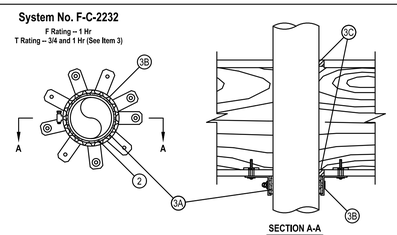
CLASSIFIED UL C US

Page: 1 of 1

FC 1059

System No. F-C-2232

F Rating – 1 Hr
T Rating – 3/4 and 1 Hr (See Item 3)



SECTION A-A

1. Floor–Ceiling Assembly -- The 1 hr fire–rated solid or trussed lumber joist floor–ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor–Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor–ceiling assembly are summarized below:
   A. Flooring System -- Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor–Ceiling Design. Max diam of opening shall be 5 in.
   B. Wood Joists* -- Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
   C. Gypsum Board* -- Nom 5/8 in. thick, 4 ft wide as specified in the individual Floor–Ceiling Design. Max diam of opening shall be 5 in.

2. Through Penetrants -- One nonmetallic pipe or conduit to be installed concentrically or eccentrically within the firestop system. Annular space between pipe or conduit and edge of opening to be min 0 in. (point contact) and max 1/2 in. Pipe or conduit to be rigidly supported on both sides of floor–ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
   A. Polyvinyl Chloride (PVC) Pipe -- Nom 4 in. diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Chlorinated Polyvinyl Chloride (CPVC) Pipe -- Nom 4 in. diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

3. Firestop System -- The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* – Wrap Strip -- Nom 3/16 in. thick by 1–3/4 in. wide intumescent wrap strip. Layers of wrap strip continuously wrapped around the pipe and held in place with tape. Wrap strip butted tightly against surface of ceiling.

   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC -- CP648–E W45/1–3/4" Wrap Strip

Nom Diam of Pipe, in.	Number of Wrap Strips	Min/Max Annular Space, in.	T-Rating - Hr.
2	1	0 - 1/4	1
3	2	0 - 1/2	3/4
4	2	0 - 1/2	3/4

   B. Steel Collar -- Collar fabricated from coils of precut min 0.017 in. thick (No. 28 MSG) galv steel available from the sealant manufacturer. Collar shall be nom 1–3/4 in. deep with 1 in. wide by 2 in. long anchors tabs on 2 in. centers for securement to floor/ceiling assembly. The opposite side incorporates retainer tabs, 1/2 in. wide by 3/16 in. long, prebent toward the pipe surface. Collar shall be tightly wrapped over the wrap strip, overlapping min. 1 in ot seam. A nom 1/2 in. wide stainless steel hose clamp shall be secured to the collar at its mid–height. Every other anchor tab of collar secured to gypsum ceiling with 1/4 in. diam by 1–1/2 in. long steel toggle bolts in conjunction with ¼ in by ¼ in diameter steel washers.
   C. Fill, Void or Cavity Material*–Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with the bottom surface of the gypsum board ceiling. Min 5/8 in. thickness of fill material applied within the annulus, flush with the top surface of the floor.

   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC -- FS–ONE Sealant

HILTI

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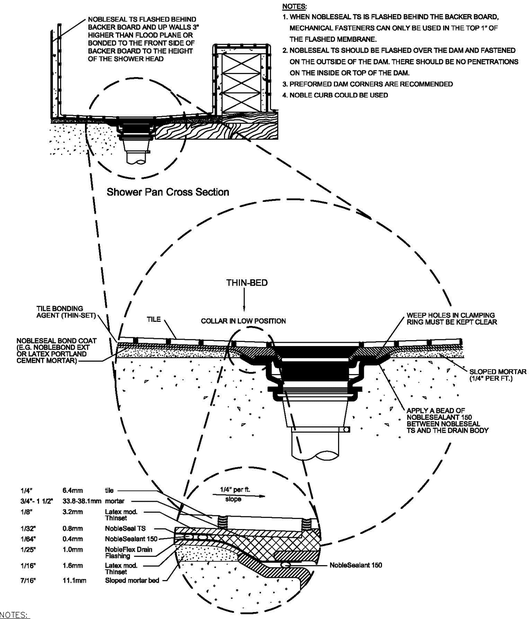
CLASSIFIED UL C US

Page: 1 of 1

FC 2232

NobleSeal TS Shower Receptor Waterproofing

(NOT TO SCALE)



NOTES:
1. WHEN NOBLESEAL TS IS FLASHED BEHIND THE BACKER BOARD, MECHANICAL FASTENERS CAN ONLY BE USED IN THE TOP 1" OF THE FLASHED MEMBRANE.
2. NOBLESEAL TS SHOULD BE FLASHED OVER THE DAM AND FASTENED ON THE OUTSIDE OF THE DAM. THERE SHOULD BE NO PENETRATIONS ON THE INSIDE OR TOP OF THE DAM.
3. PREFORMED DAM CORNERS ARE RECOMMENDED
4. NOBLE CURB COULD BE USED

NOTES:
1– NONPLASTICIZED CHLORINATED POLYETHYLENE SHEET SHALL BE A MINIMUM 0.040 INCH (1.02 MM) THICK, AND SHALL MEET THE REQUIREMENTS OF ASTM D4068. THE LINER SHALL BE JOINED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PLUMBING NOTES

1.0 GENERAL
1.1 PROVIDE (FURNISH AND INSTALL) ALL NECESSARY MATERIALS AND LABOR FOR A COMPLETELY OPERATIONAL PLUMBING SYSTEM AS SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. INSTALL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE PLUMBING SIX EDITION, 2017, AND LOCAL ORDINANCES.
1.2 SCOPE OF WORK: PROVIDE THE FOLLOWING COMPLETE SYSTEMS:
A. SANITARY COLLECTION.
B. DOMESTIC HOT AND COLD WATER.
C. AIR CONDITIONING CONDENSATE.
1.3 PAY FOR ALL FEES, INSPECTIONS AND CONNECTION CHARGES REQUIRED.
1.4 CONTRACTOR SHALL VERIFY AT JOB SITE ALL EXISTING CONDITIONS, DIMENSIONS PIPE SIZES, FIXTURES, ETC. PRIOR TO SUBMITTING A PRICE QUOTE AND INSTALLATIONS. COORDINATE REQUIREMENTS TO AVOID INTERFERENCE WITH OTHER TRADES.
1.5 SUBMIT SHOP DRAWINGS FOR ARCHITECT/ENGINEER & OWNER APPROVAL BEFORE PROCEEDING WITH THE PURCHASE OF INSTALLATION OF EQUIPMENT AND MATERIALS.
1.6 GUARANTEE ALL WORK FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
1.7 PLUMBING APPLIANCES AND PLUMBING FIXTURES SHALL BE LOCATED AT OR ABOVE THE ELEVATION REQUIRED IN SECTION FBCP–2014, SECTION 309 AND THE FLORIDA BUILDING CODE 2017.
2.0 MATERIALS.
2.1 A WATER–HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK CLOSING VALVES ARE UTILIZED AS PER FBCP 2017 SECTION 604.9, UNLESS OTHERWISE APPROVED. THE ARRESTOR SHALL BE LOCATED WITHIN AN EFFECTIVE RANGE OF THE QUICK–CLOSING VALVE. WATER–HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010. ACCESS SHALL BE PROVIDED TO WATER–HAMMER ARRESTORS.
2.2 PROVIDE DIELECTRIC FITTINGS TO CONNECT PIPING TO EQUIPMENT OF DISSIMILAR METALS. USE CLAMPS AND FASTENERS OF SIMILAR METALS AND ISOLATE THEM FROM PIPING AND SLABS TO PREVENT CORROSION.
2.3 ANTI SCALD VALVE SHALL BE INSTALLED IN TUBS AND SHOWERS.
2.4 PIPING.
2.4.1 DOMESTIC HOT AND COLD WATER: COPPER TUBING TYPE M UNDERGROUND AND ABOVE GROUND WITH SOLDER JOINTS. WOG BRONZE VALVES 125 P.S.I. MIN. PROVIDE PRE–MOLDED 3/4" FIBERGLASS INSULATION FOR HOT WATER LINES. PROVIDE POLYPROPYLENE SLEEVES TO SEPARATE COPPER PIPE FROM CONCRETE.
2.4.2 SANITARY WASTE AND VENT: P.V.C. DRAIN PIPE AND FITTINGS WHEN & WHERE ALLOWED BY THE LOCAL JURISDICTION.
2.6 PLUMBING FIXTURES SHALL COMPLY WITH REFERENCED STANDARDS AS PER FBCP–2017, SECTIONS 406 THROUGH 421.
2.7 CLEANOUTS SHALL BE INSTALLED AT EACH FITTING WITH A CHANGE OF DIRECTION MORE THAN 45 DEGREES IN THE BUILDING SEWER, BUILDING DRAIN AND HORIZONTAL WASTE OR SOIL LINES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED IN EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING. A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK.
2.8 HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES NO LESS THAN ONE FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL FOR 2–½" DIAMETER AND LESS, AND NOT LESS THAN ONE EIGHT UNIT VERTICAL IN 12 UNITS HORIZONTAL FOR DIAMETER OF 3" OR MORE.

PLUMBING DEMOLITION NOTES:

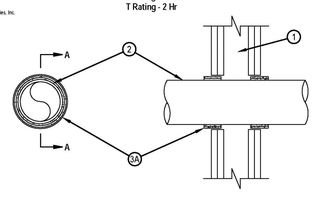
1. THE NATURE OF THIS REMODELING TYPE PROJECT POSES SPECIAL UNFORESEEN CONDITIONS FOR THE DESIGN ENGINEER AS WELL AS THE PLUMBING CONTRACTOR. EVERY EFFORT HAS BEEN MADE TO SHOW AND VERIFY, WHERE POSSIBLE, THE LOCATION OF EXISTING PLUMBING SYSTEMS. THE MAJOR PORTION OF THE PLUMBING SYSTEMS ARE SHOWN ON THE DRAWINGS, HOWEVER DEVIATIONS MAY BECOME EVIDENT AND CHANGES MAY OCCUR AS THE JOB PROGRESSES.
2. CONTRACTOR WILL BE RESPONSIBLE OF COORDINATING HIS DEMOLITION WORK WITH OTHER TRADES AND TO PROTECT FROM DAMAGE EXISTING PIPES USED FOR FUTURE CONNECTIONS.
3. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING PIPES BEFORE COMMENCING TO WORK AND MAKE MODIFICATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO THE OWNER.
4. EXISTING PIPES SERVING AREAS NOT COVERED BY THIS CONTRACT, BUT IN SERVICE AT THIS TIME SHALL NOT BE INTERRUPTED UNLESS IT IS A TEMPORARY INTERRUPTION FULLY COORDINATED WITH THE OWNER.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR SAW CUTTING, COMPACTING AND RE–POURING EXISTING CONCRETE SLAB ON GRADE FOR THE INSTALLATION OF NEW UNDERGROUND PIPING BELOW EXIST SLABS.

System No. W-L-2344

F Rating - 2 Hr
T Rating - 2 Hr

CLASSIFIED UL Classified by Underwriters Laboratories, Inc. to UL 1479

WL 2344



SECTION A-A

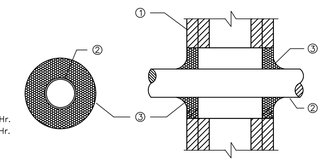
1. Wall Assembly – The 2 hr fire–rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing shall consist of either wood or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* – Min 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual U300 or U400 Wall and Partition Design. Max diam of opening is 5-1/2 in.
2. Through Penetrants – One nonmetallic pipe to be centered within the firestop system. A nom annular space of 3/8 to1/2 in. is required within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:
   A. Acrylonitrile Butadiene Styrene (ABS) Pipe – Nom 4 in. diam (or smaller) Schedule 40 cellular or solid-core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. Polyvinyl Chloride (PVC) Pipe – Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   C. Chlorinated Polyvinyl Chloride (CPVC) Pipe – Nom 4 in. diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
3. Firestop System – The firestop system shall consist of the following:
   A. Fill, Void or Cavity Material* - Wrap Strip – Two layers of nom 3/16 in. thick by 1-3/4 in. wide intumescent wrap strip individually wrapped around the outer circumference of the pipe and slid into the annular space such that wrap strip extends 3/4 in. beyond both surfaces of wall. Butted ends in successive layers shall be offset. Wrap strip secured with tape, wire or tie wire.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP646-E W45/1-3/4" Wrap Strip
*Bearing the UL Classification Mark

HILTI Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. April 22, 2005

CLASSIFIED UL Classified by Underwriters Laboratories, Inc. to UL 1479

WL 1097



F–rating = 2 Hr.
T–rating = 1 Hr.

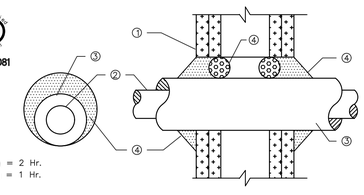
KEYED NOTES

① FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY.
② METALLIC PIPE: A. STEEL PIPE – 8" DIAMETER (OR SMALLER), SCHEDULE 40 (OR HEAVIER) STEEL PIPE.
B. IRON PIPE – 8" DIAMETER (OR SMALLER), CAST OR DUCTILE IRON PIPE.
C. COPPER TUBING – 4" DIAMETER (OR SMALLER), TYPE L (OR HEAVIER) COPPER TUBING.
D. COPPER PIPE – 4" DIAMETER (OR SMALLER), REGULAR (OR HEAVIER) COPPER PIPE.
MAKE THE ANNULAR SPACE A MINIMUM 1/4" TO A MAXIMUM 5/8" WITHIN THE FIRESTOP SYSTEM.
③ FYRE–SHIELD – APPLY A MINIMUM 1/2" THICKNESS OF SEALANT WITHIN OPENING. PROVIDE ADDITIONAL SEALANT TO FORM A MINIMUM 1/4" CROWN IN THE ANNULAR SPACE ABOUT THE PIPE OR TUBE PENETRATION.

DETAIL: TYPICAL FIRESTOPPING OF A TWO HOUR FIRE RATED GYPSUM WALLBOARD WALL ASSEMBLY PENETRATION BY UNINSULATED STEEL OR COPPER PIPING

NTS HDFP–USTCOP1HRGYPW

WL 5081



F–rating = 2 Hr.
T–rating = 1 Hr.

KEYED NOTES

① FIRE RATED GYPSUM WALL ASSEMBLY = MINIMUM 4–1/2" THICKNESS.
② METALLIC PIPE: A. COPPER TUBING – 2" DIAMETER (OR SMALLER), TYPE K (OR HEAVIER) COPPER TUBING.
B. COPPER PIPE – 2" DIAMETER (OR SMALLER), REGULAR (OR HEAVIER) COPPER PIPE.
③ PIPE COVERING – NOMINAL 3/4" THICK FLEXIBLE FOAM INSULATION. MAKE THE ANNULAR SPACE A MINIMUM 1/8" TO A MAXIMUM 1/4" WITHIN THE FIRESTOP SYSTEM.
④ TREMSTOP IA – APPLY MINIMUM 1" THICKNESS OF SEALANT WITHIN OPENING. MAKE FLUSH WITH THE TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL ASSEMBLY. PROVIDE ADDITIONAL FILL MATERIAL TO FORM A MINIMUM 1/4" CROWN IN THE ANNULAR SPACE ABOUT THE PIPE OR TUBE PENETRATION.

DETAIL: TYPICAL FIRESTOPPING OF A TWO HOUR FIRE RATED GYPSUM WALLBOARD WALL ASSEMBLY PENETRATION BY INSULATED COPPER

NTS HDFP–ISTCOP2HRGYPW

Ricardo Perez de Alejo
Digitally signed by Ricardo Perez de Alejo
Date: 2021.06.16 12:23:38 -04'00'

RPA Engineering
PROVIDING MEP SOLUTIONS
7930 NW 107th St.
Miami, Florida, 33015
Phone: 305 308 9857
Fax: 305 829 3647
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO
LICENSE
No. 58728
STATE OF FLORIDA
PROFESSIONAL ENGINEER
RICARDO PEREZ, P.E. 58728

Rev.	Date	Rev.	Date

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SOBE HOSTEL
235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

KOBI KARP
Lic. # AR0012578

PLUMBING NOTES AND DETAILS

Date	JUNE 08, 2020	Sheet No.
Scale	AS INDICATED	P201
Project	1967	

MIAMIBEACH
BUILDING DEPARTMENT
Reviewed For Compliance
BC2013662
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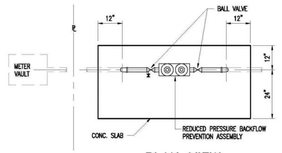
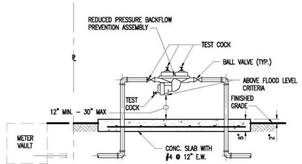


PLAN VIEW



ELEVATION VIEW

GUARD POST DETAIL	WS 4.5	
ITEM	CROSS REF.	SPEC. REF.

ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS 4.18
6/26/2012	F.A.	REDUCED PRESSURE ZONE BACKFLOW PREVENTER FOR WATER SERVICE 3/4" THRU 2"	SHEET 1 OF 5

MIAMI-DADE COUNTY Delivering Excellence Every Day

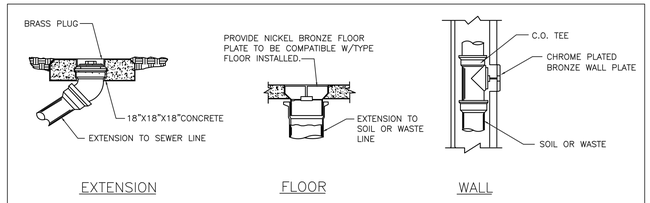
PLUMBING FIXTURE CONNECTION SCHEDULE

IN COMPLIANCE TO FBCP CHAPTER 27 AND WATER CONSUMPTION RATES AS PER MIAMI DADE ORDINANCE 08-14.

No.	DESCRIPTION	DRAIN	WATER		SAN. (FU)	MAX. FLOW RATE (GPM)	FIXTURE COMPLIENCE
			COLD	HOT			
WC	WATER CLOSET	3"	1/2"	N/A	3	1.28 PER FLUSHING	ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAPMO Z124. ASME A112.19.2/CSA B45.1. Water closet tanks shall conform to ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAPMO Z124.
LAV	LAVATORY	1-1/4"	1/2"	1/2"	1	1.0 AT 60 PSI	ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4orCSA B45.5/IAPMO Z124
SK	SINK	1-1/2"	1/2"	1/2"	2	1.0 AT 60 PSI	ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAPMO Z124.
SH	SHOWER	2"	1/2"	1/2"	2	1.5 AT 80 PSI	ASME A112.19.2/CSA B45.1 or CSA B45.5/IAPMO
WM	WASHER MACHINE	2"	1/2"	1/2"	2	WATER FACTOR OF 8 OR LOWER	ASME A112.19.1/CSA B45.2, ASME A112.19.2/CSA B45.1, ASME A112.19.3/CSA B45.4 or CSA B45.5/IAPMO Z124.
UR	URINAL	1-1/2"	1/2"	1/2"	2	1.0 AT 60 PSI	ANSI Z124.6, ASME A112.19.1M, ASME A112.19.2M, ASME A112.19.3M, ASME A112.19.4M, ASME A112.19.9M, CSA B45.1, CSA B45.2, CSA B45.3 or CSA B45.4.

PLUMBING SYMBOL LEGEND

	SAN.	NEW SANITARY LINE
	HW	NEW HOT WATER LINE
	CW	NEW COLD WATER LINE
	VT	NEW VENT LINE
	SAN.	EXISTING SANITARY LINE
	HW	EXISTING HOT WATER LINE
	CW	EXISTING COLD WATER LINE
	VT	EXISTING VENT LINE
CD	CD	CONDENSATE LINE
PD	PD	P&T RELIEF VALVE
	CO WCO	CLEAN OUT WALL CLEAN OUT
	FCO	FLOOR CLEAN OUT
	GV	GATE VALVE
	AAV	AIR ADMITTANCE VALVE
		ELBOW DOWN
		ELBOW UP
		TEE DOWN



TYPICAL CLEANOUT DETAILS

N.T.S.

STIEBEL-ELTRON WATER HEATER

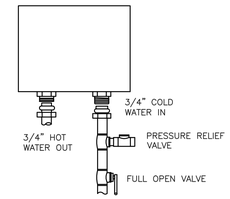
NO.	MODEL	MAX KW AT 240V	MAX AMP AT 240V	EFFICIENCY RATE
EWH-3	NOT USED			
EWH-4	DHC-E 8	7200	30	0.99

USE ONLY THE COMPRESSION FITTING RING AND NUT PROVIDED WITH EACH UNIT AS SHOWN ABOVE.

COMPRESSION FITTINGS ARE DESIGNED EXCLUSIVELY FOR THIS UNIT, DO NOT USE A DIFFERENT TYPE OF THREADED COUPLING.

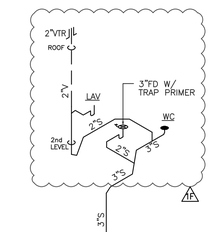
ONLY VERTICAL ISTALLATION.
BEFORE TURNING ON THE ELECTRICITY, LET THE WATER RUN FOR 20 SECONDS THROUGH THE UNIT. CHECK LOCAL CODES FOR APPROPRIATE WIRE GAUGE AND CIRCUIT BREAKER.

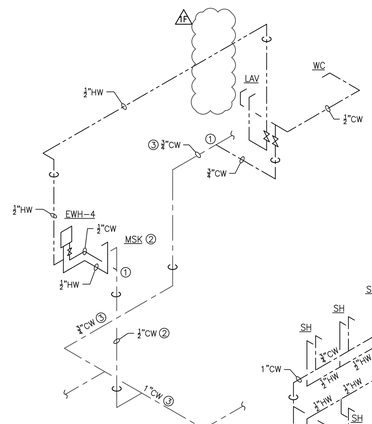
A- THE UNIT COMES WITH 1/2'' COMPRESSION FITTINGS, DO NOT SOLDER PIPE TO INLET OR OUTLET.
B- FLUSH SUPPLYING LINE BEFORE CONNECTING THE UNIT, TO REMOVE ANY PARTICLES LEFT IN LINE.

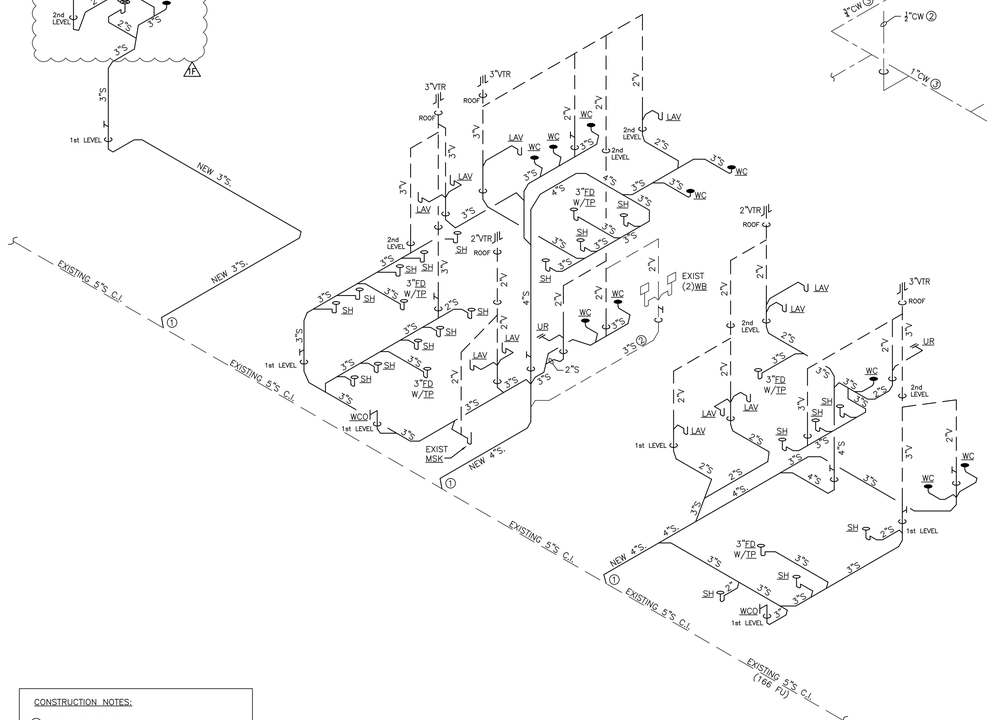


TANKLESS WATER HEATER

N.T.S.

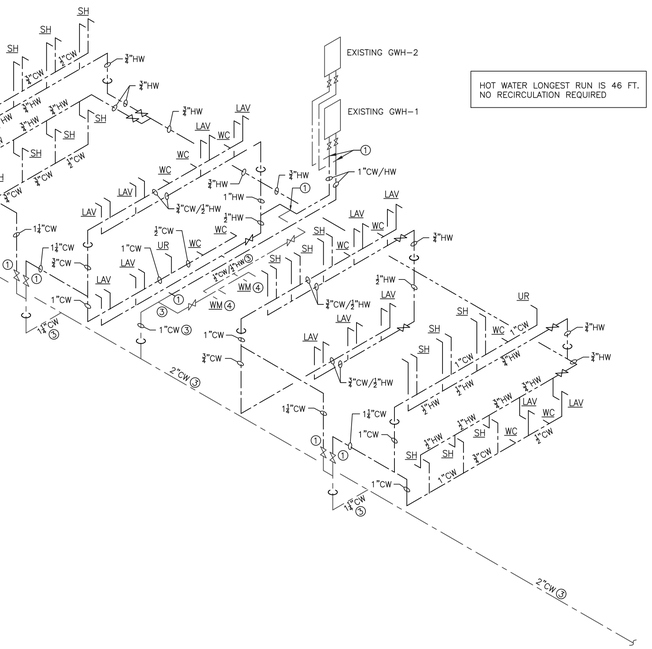






SANITARY ISOMETRIC

N.T.S.



HOT WATER LONGEST RUN IS 46 FT.
NO RECIRCULATION REQUIRED

WATER ISOMETRIC

N.T.S.

CONSTRUCTION NOTES:

1. TIE-IN TO EXISTING.
2. EXISTING DRAINAGE/VENT PIPES TO REMAIN.
3. EXISTING WATER PIPES TO REMAIN.
4. EXISTING PLUMBING FIXTURE TO REMAIN.

Ricardo Perez de Alejo
Digitally signed by Ricardo Perez de Alejo
Date: 2021.06.16 12:24:03 -04'00'

RPA Engineering
PROVIDING MEP SOLUTIONS
RPA
7930 NW 107th St.
Miami, Florida, 33015
Phone: 305 308 9857
Fax: 305 829 3647
email: rperez@rpa-engineering.com

RICARDO PEREZ DE ALEJO
LICENSE
No. 58728
STATE OF FLORIDA
PROFESSIONAL ENGINEER
RICARDO PEREZ, P.E. 58728

Rev.		Date	Rev.	Date
1	P.P.C.	11/23/20		
1A	B.D.C.	02/04/21		
1B	NOT USED			
1C	NOT USED			
1D	B.D.C. (BUILDING)	04/19/21		
1E	NOT USED			
1F	B.D.C. (PLUMBING)	06/16/21		

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SOBE HOSTEL

235 WASHINGTON AVE
MIAMI BEACH, FL 33139

Owner:
Name ADAM HYATT
Address 235 WASHINGTON AVENUE
Address MIAMI BEACH, FL, 33139
Tel: 305.4901018
Email ADAM@VULTUREFUND.COM

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Consultant:
Name
Address
Address
Tel:
Email

Architect of Record:
Kobi Karp Architecture and Interior Design, Inc.
2915 Biscayne Boulevard, Suite #200
Miami, Florida 33137 USA
Tel: +1(305) 573 1818
Fax: +1(305) 573 3766

KOBI KARP
Lic. # AR0012578

PLUMBING RISERS

Date	JUNE 08, 2020	Sheet No.
Scale	AS INDICATED	P202
Project	1967	

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ELECTRICAL LEGEND.

- (SD) SMOKE DETECTOR
- DISCONNECT SWITCH
- (JB) JUNCTION BOX
- (M) ELECTRIC MOTOR
- —— ELECTRIC POWER WIRING
- - - - ELECTRIC CONTROL WIRING

SHOP DRAWING / SUBMITTAL REVIEW

☑ APPROVED ☐ APPROVED WITH CHANGES NOTED
☐ REVISE AND RESUBMIT ☐ REJECTED

SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT JOB SITE FOR TOLERANCE, CLEARANCE, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.

BY: RPA DATE: 7/15/21

RICARDO PEREZ DE ALEJO
RPA ENGINEERING, INC,

RICARDO PEREZ DE ALEJO LICENSE No. 58728 STATE OF FLORIDA PROFESSIONAL ENGINEER

SMOKE EXHAUST SYSTEM SEQUENCE OF OPERATION

1. UNDER QUIESCENT CONDITIONS THE EXHAUST FAN AND THE MOTORIZED DAMPER ON/OF SWITCHES AT THE UNITS ARE IN THE "ON" POSITION. THE EMERGENCY GENERATOR IS IN THE OFF POSITION. BREAKERS ONE AND TWO IN THE GENERATOR LOAD CENTER ARE IN THE CLOSED POSITION. THE PUSH BUTTON STATION NEAR THE FIRE ALARM PANEL IS IN THE OFF POSITION.

2. ACTIVATION OF ANY OF THE FOLLOWING WILL CAUSE THE SMOKE EXHAUST SYSTEM TO START:
   a. MANUAL ACTIVATION OF THE ON/OFF SWITCH NEAR THE FIRE ALARM PANEL.
   b. AUTOMATIC ACTIVATION BY A SIGNAL FROM THE FIRE ALARM PANEL ACTIVATED BY ANY SUPERVISORY DEVICE.
   c. ACTIVATION BY A SIGNAL FROM THE FIRE ALARM PANEL ACTIVATED BY ANY SMOKE DETECTOR.

[(ALL SUPERVISORY DEVICES (PULL STATIONS ETC, AND SMOKE DETECTORS) SHALL BE WIRED THRU THE FIRE ALARM PANEL.)]

3. DEACTIVATION OF THE SMOKE EXHAUST SYSTEM WILL BE THROUGH THE ON/OFF SWITCH NEAR THE FIRE ALARM PANEL.

SCOPE OF THE WORK:

1. THE SCOPE OF THE WORK IS TO FURNISH ALL LABOR AND PROVIDE AND INSTALL ALL NECESSARY MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE OPERATING ELECTRICAL SYSTEM IN ACCORDANCE WITH THE GENERAL NOTES INCLUDED HEREIN AND THE SPECIFIC NOTES TO FOLLOW.
2. THE COMPLETE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
   A. ALL CIRCUIT BREAKERS.
   B. ALL DISCONNECT SWITCHES.
   C. ALL ELECTRICAL CONDUIT.
   D. ALL WIRING DEVICES.
   E. ALL POWER AND CONTROL WIRING.

A . GENERAL:

1. AS A MINIMUM ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS FOR THE TYPE OF EQUIPMENT AND INTENDED USE OF THE FOLLOWING:
   a. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
   b. NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION (NEMA).
   c. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA/NEC).
   d. UNDERWRITERS LABORATORIES (UL); NOTE THAT THE ABOVE ENUMERATED CODES AND STANDARDS ARE SUBORDINATE TO UL.
2. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC, SHALL BE LISTED FOR THE INTENDED USE WITH UNDERWRITERS LABORATORIES INC. (UL) WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL.

B. MATERIALS:

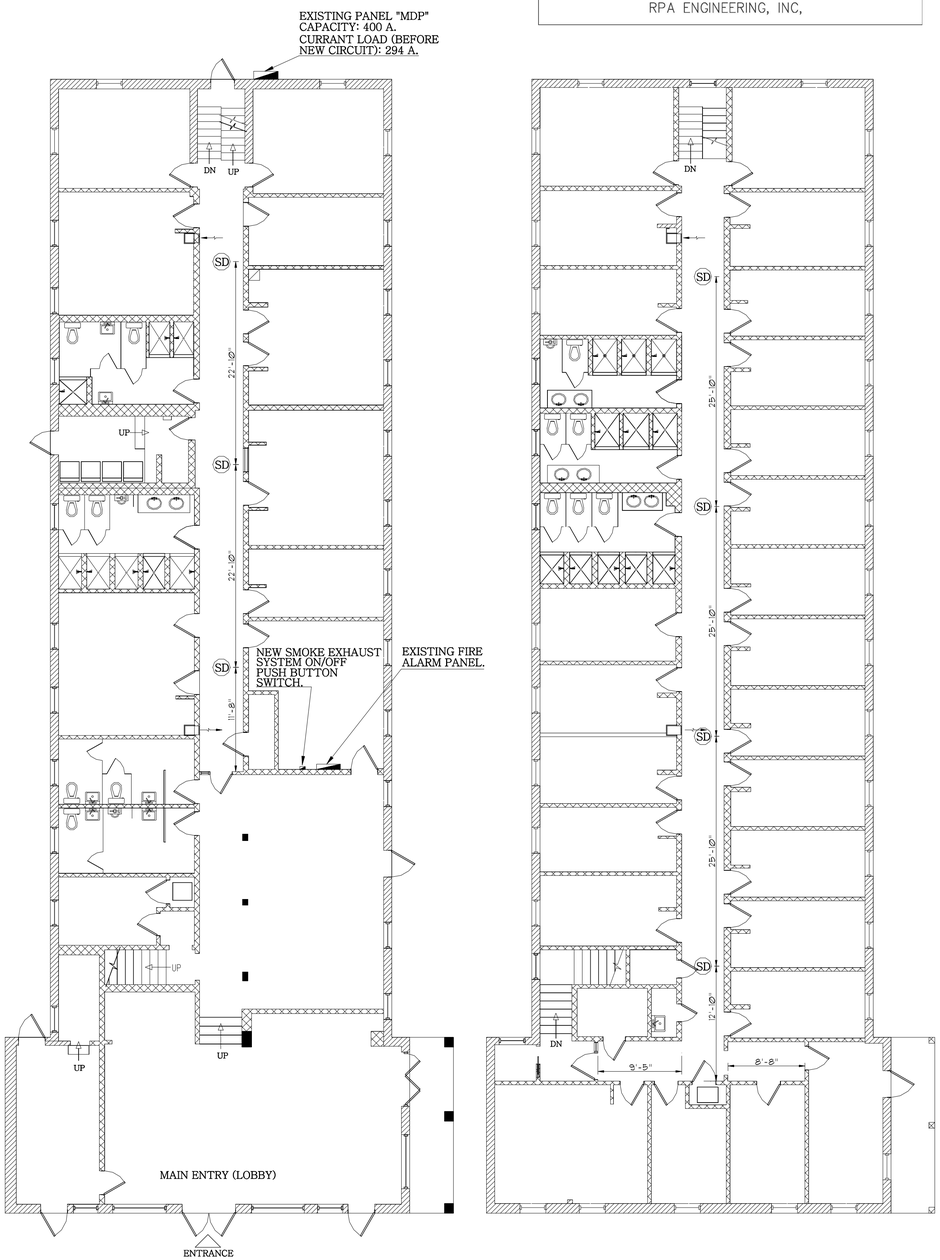
1. ALL WIRING SHALL HAVE 600 VOLT INSULATION TYPE TW, THW OR THWN FOR BRANCH CIRCUITS AND TYPE THW OR THN FOR MAIN FEEDERS OR AS SPECIFIED. MINIMUM SIZE WIRING SHALL BE #12 AWG.
2. THE ELECTRICAL DESIGN IS BASED ON COPPER CONDUCTORS; WIRE SIZES #10 AND SMALLER SHALL BE TYPE TW; WIRE SIZES #8 AND LARGER SHALL BE TYPE THW OR AS SPECIFIED. WIRE SIZES #10 AND SMALLER SHALL BE SOLID COPPER AND IN SIZES #8 AND LARGER SHALL BE STRANDED COPPER.
3. PROVIDE ALL FUSES FOR ALL EQUIPMENT WHERE FUSES ARE REQUIRED. SIZE ALL FUSES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
4. ALL ELECTRICAL WIRING SHALL BE IN CONDUIT (NO ROMEX, SX. ETC.). ALL CONDUIT SHALL BE INTERMEDIATE METALLIC CONDUIT (IMC) OR RIDGED GALVANIZED STEEL (RGS) EXCEPT THAT:
   a. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN, OR ON WALLS AND/OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP AND/OR CORROSIVE CONDITIONS.
5. ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE, UNLESS OTHERWISE NOTED.
6. WHERE OPENINGS MUST BE FIRE SEALED, USE FIRE SEAL SIMILAR TO "OZ".

C. METHODS:

1. ALL FEEDERS, SUB FEEDERS AND BRANCH CIRCUITS SHALL BE PROPERLY PHASED BALANCED.
2. WIREWAYS SHALL BE SIZED IN ACCORDANCE WITH THE NEC UNLESS OTHERWISE NOTED.
3. ELECTRICAL CONTRACTOR SHALL VERIFY REQUIREMENTS, EXACT LOCATIONS AND TYPE OF OUTLET FOR ALL ELECTRICAL EQUIPMENT.
4. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE IN WEATHERPROOF ENCLOSURES.
5. ALL PULL AND JUNCTION BOXES SHALL BE INSTALLED IN SUCH A MANNER THAT THEY WILL BE ACCESSIBLE AT ALL TIMES.

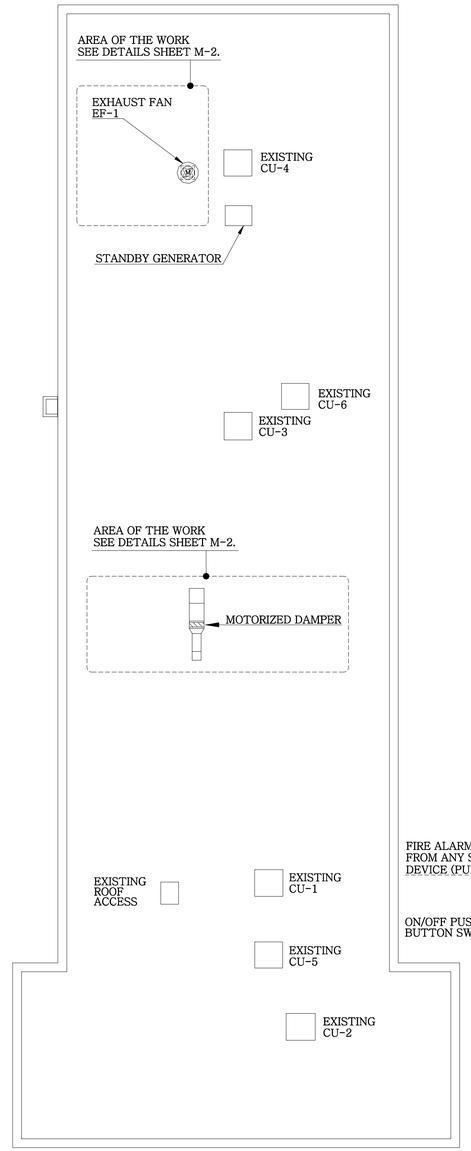
D. TESTS:

1. CONTRACTOR SHALL BE RESPONSIBLE TO CALL FOR ALL REQUIRED INSPECTIONS BY THE AUTHORITIES HAVING JURISDICTION AS THE WORK PROGRESSES
2. CONTRACTOR SHALL PERFORM TESTS ON ALL INSTALLED ELECTRICAL EQUIPMENT TO INSURE THAT ALL COMPONENTS OPERATE AS REQUIRED TO PROVIDE A COMPLETE OPERATING ELECTRICAL SYSTEM. PERFORM ANY ADDITIONAL TEST AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION. ALL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE LATEST EDITION AND IN ACCORDANCE WITH ANY LOCAL CODES AND ORDINANCES.

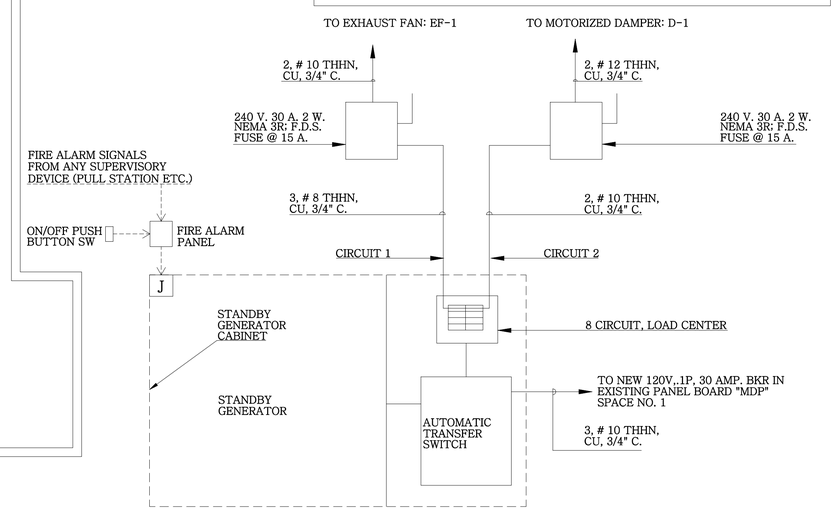


FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



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



ELECTRICAL RISER
N.T.S.

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BUILDING DEPARTMENT
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CHARLES E. CULPEPPER, JR.
825 BRICKELL BAY DRIVE
SUITE 346
MIAMI, FLORIDA 33131
TEL: (305) 372-5189
CELL: (786) 402-7617
EMAIL: sjirap@bellsouth.net
ARCHITECTURAL · CIVIL · ELECTRICAL· ENVIRONMENTAL
MECHANICAL STRUCTURAL
MIAMI · NEW YORK · CHICAGO

PROJECT NAME

SMOKE EXHAUST
FAN SYSTEM

SOBE HOSTEL
235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER JR. LICENSE No. 14203 STATE OF FLORIDA PROFESSIONAL ENGINEER

CHARLES E. CULPEPPER, JR.
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW YORK LICENSE NO. 16-066511
STATE OF ILLINOIS LICENSE NO. 062-043107
STATE OF FLORIDA LICENSE NO, 14203

charles e culpepper Digitally signed by charles e culpepper Date: 2021.07.06 23:39:40 -04'00'

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Issue Date: JUNE 23, 2021

Revisions

No.	Date	Description

CULPEPPER

Project Number: 20-169 Drawn By: CEC
Designed By: CEC Checked By: CEC
Sheet Title: EXHAUST FAN ELECTRICAL DETAILS
Sheet Number: E-1 1 OF 1

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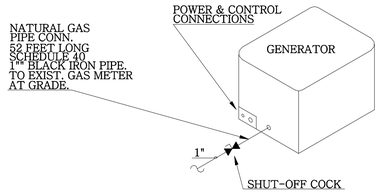

GENERATOR CONN. DETAIL
N.T.S.

SHOP DRAWING / SUBMITTAL REVIEW

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BY: RPA DATE: 7/15/21

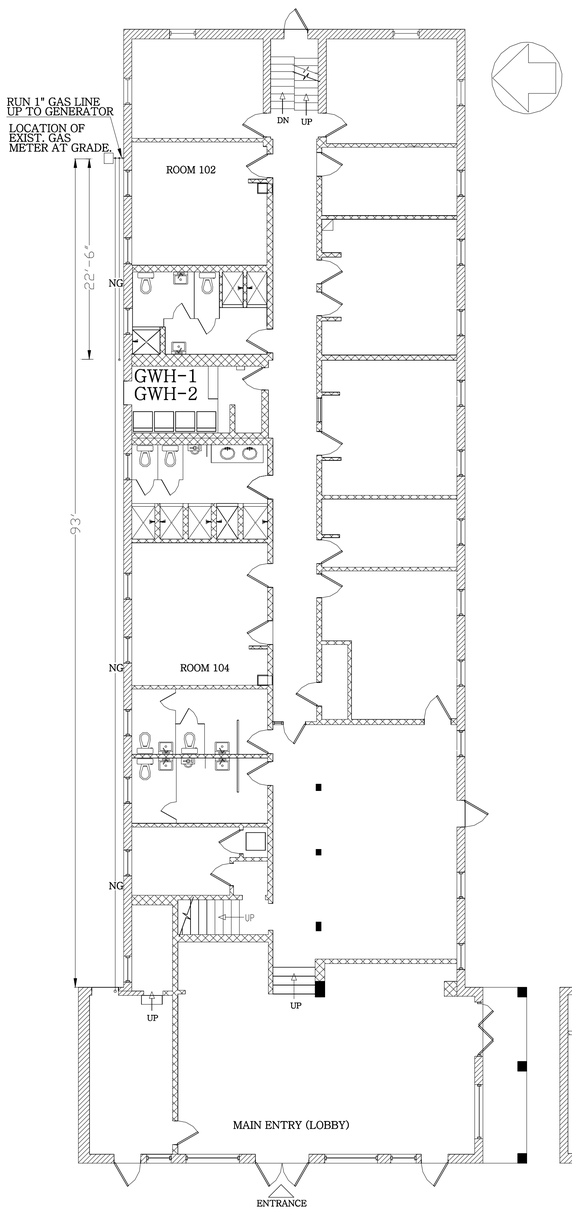
RICARDO PEREZ DE ALEJO
RPA ENGINEERING, INC,

RICARDO PEREZ DE ALEJO LICENSE No. 58728 STATE OF FLORIDA PROFESSIONAL ENGINEER

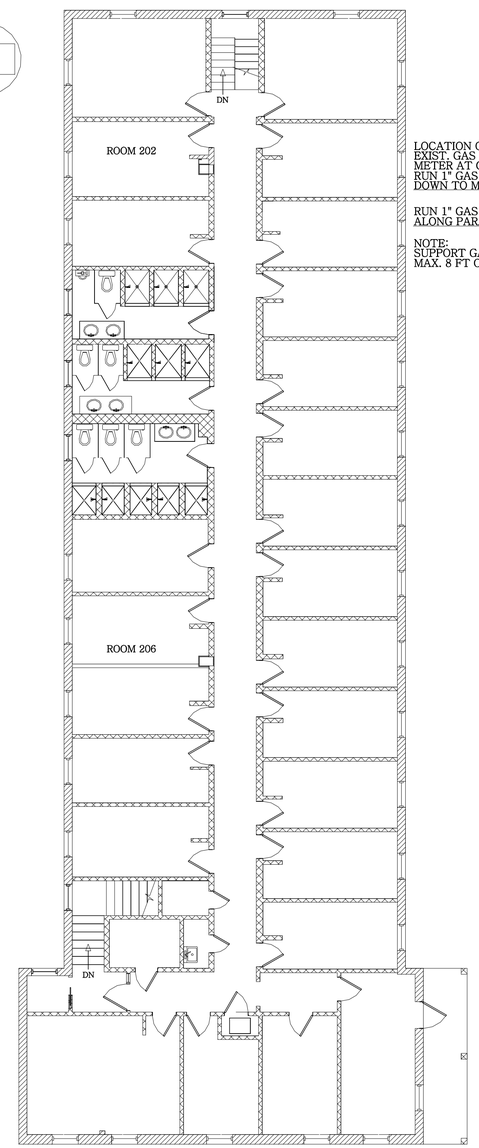
REFER TO SHEET M-1 FOR NOTES.

EQUIPMENT	FLOW RATE	GAS REQUIREMENT	PIPE LENGTH	PIPE SIZE
GENERATOR	117,000 BTUH	117 CF/HR	102 FEET	1 INCH
RESTAURANT SPACE	600,000 BTUH	600 CF/HR	102 FEET	2 INCHES
GWH-1 GWH-2	199,900 BTUH 199,900 BTUH	400 CF/HR	102 FEET	1-1/2 INCH

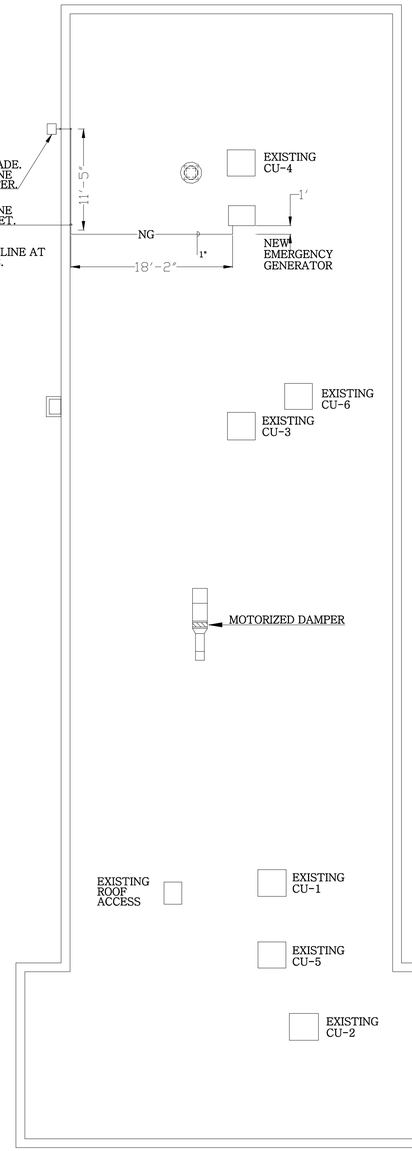
NOTE: SIZED USING TABLE 402(2) - UTILITY GAS
CALCULATIONS BASED ON LONGEST LENGTH METHOD
FOR GAS PRESSURE = 0.5 PSI
PRESSURE DROP = 0.5 INCH WATER COLUMN
(BASED ON A 0.60 SPECIFIC GRAVITY GAS)



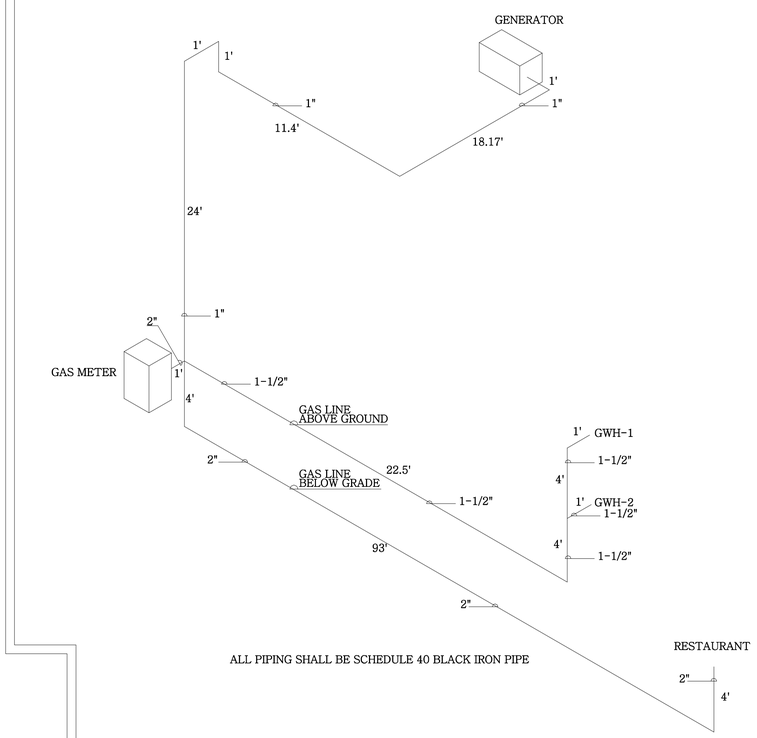
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



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



ALL PIPING SHALL BE SCHEDULE 40 BLACK IRON PIPE

NATURAL GAS ISOMETRIC
N.T.S.

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BUILDING DEPARTMENT
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Architects & Engineers
CHARLES E. CULPEPPER, JR.
825 BRICKELL BAY DRIVE
SUITE 346
MIAMI, FLORIDA 33131
TEL: (305) 372-5189
CELL: (786) 402-7617
EMAIL: sjirap@bellsouth.net
ARCHITECTURAL · CIVIL · ELECTRICAL · ENVIRONMENTAL
MECHANICAL · STRUCTURAL
MIAMI · NEW YORK · CHICAGO

PROJECT NAME

NATURAL GAS

SOBE HOSTEL
235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER, JR. LICENSE No. 14203 STATE OF FLORIDA PROFESSIONAL ENGINEER

CHARLES E. CULPEPPER, JR.
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW YORK LICENSE NO. 16-066511
STATE OF ILLINOIS LICENSE NO. 062-043107
STATE OF FLORIDA LICENSE NO. 14203

charles e culpepper
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Issue Date: MAY 27, 2021

Revisions

No.	Date	Description

CULPEPPER

Project Number: 20-169 Drawn By: CEC
Designed By: CEC Checked By: CEC

Sheet Title: NATURAL GAS LAYOUT

Sheet Number: P-1 1 OF 1

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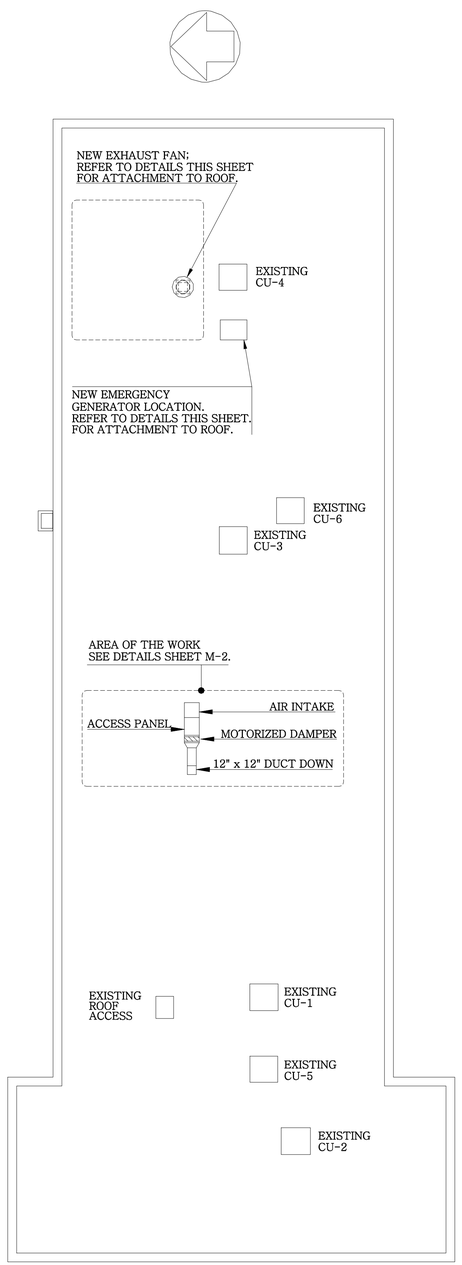
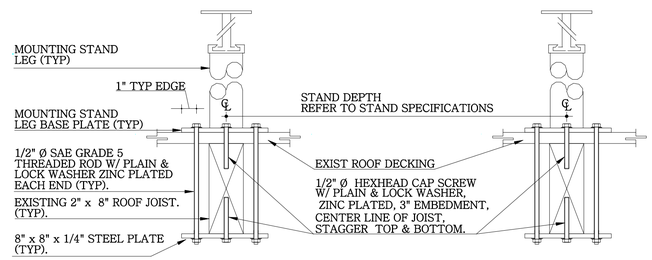


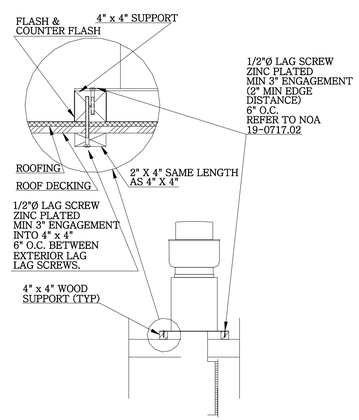
ROOF PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1. PART NO. AS14H18
2. MIAMI TECH INC.
3. NOA 17-1218.02
4. WIND LOAD CALCULATIONS ABOVE RIGHT THIS SHEET.

GENERATOR MOUNTING STAND
N.T.S.



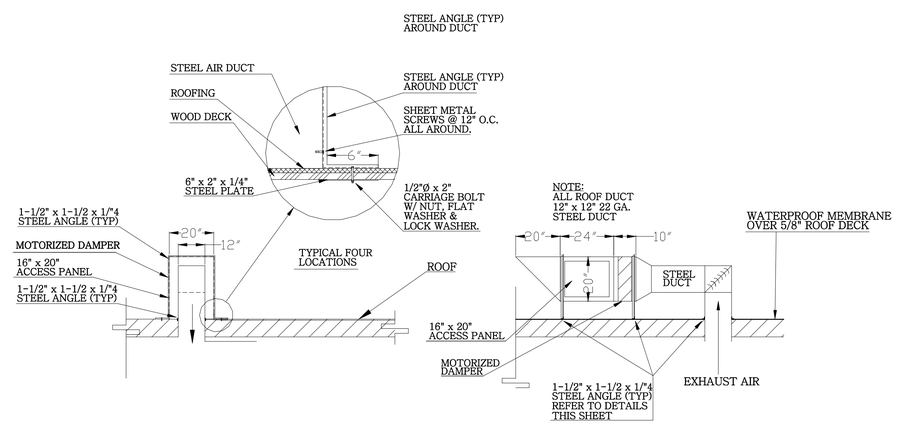
ATTACHMENT OF METAL STAND TO ROOF JOISTS
N.T.S.



ATTACHMENT OF EXHAUST FAN TO ROOF.
N.T.S.

EQUIPMENT WIND LOADS:

FROM ASCE 7-10 & ASCE 7-16: FORCES ON ROOFTOP STRUCTURES.
HORIZONTAL
$F_h = q_h (GC_r)_h A_r$ (ASCE 7-10 Equation 29.5-2)
VERTICAL
$F_v = q_h (GC_r)_v A_r$ (ASCE 7-10 Equation 29.5-3)
WHERE:
q_h= velocity preasure evaluated at building mean roof height.
A_r=horizontal projected area of equipment. A_r= 3' x 3' = 9 sq. ft.
$(GC_r)_h$ =1.9
$(GC_r)_v$ =1.5
$q = 0.00256\ V^2$; for V = 180 mph; q = 82.95 lbs/sq. ft; use 83 lbs/sq ft.
$q_h = q\ C_d C_e I$ for: q = 83; C_d = 1.3; C_e= 1.2; I = 1; q_h= 130 lbs/sq ft
F_H= 2,223 lbs; F_V= 1,755 lbs;



ATTACHMENT OF MOTORIZED DAMPER TO ROOF.
N.T.S.

NOTES:

1. REFER TO SHEET M-1 FOR GENERAL NOTES.
2. REFER TO SHEET M-1 FOR APPLICABLE CODES.
3. REFER TO SHEET M-1 FOR SCOPE OF WORK.
4. FOR CHARACTERISTICS OF GENERATOR, MOTORIZED DAMPER AND EXHAUST FAN, REFER TO SHEET M-2.

SHOP DRAWING / SUBMITTAL REVIEW

☑ APPROVED ☐ APPROVED WITH CHANGES NOTED
☐ REVISE AND RESUBMIT ☐ REJECTED

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BY: RPA DATE: 7/15/21

RICARDO PEREZ DE ALEJO
RPA ENGINEERING, INC,

RICARDO PEREZ DE ALEJO · LICENSE No. 58728 · STATE OF FLORIDA · PROFESSIONAL ENGINEER

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Architects & Engineers

CHARLES E. CULPEPPER, JR.
825 BRICKELL BAY DRIVE
SUITE 346
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ARCHITECTURAL · CIVIL · ELECTRICAL· ENVIRONMENTAL
MECHANICAL · STRUCTURAL
MIAMI · NEW YORK · CHICAGO

PROJECT NAME

SMOKE EXHAUST
FAN SYSTEM

SOBE HOSTEL
235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER · LICENSE No. 14203 · STATE OF FLORIDA · PROFESSIONAL ENGINEER

CHARLES E. CULPEPPER, JR.
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW YORK LICENSE NO. 16-066511
STATE OF ILLINOIS LICENSE NO. 062-045107
STATE OF FLORIDA LICENSE NO, 14203

charles e culpepper
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Date: 2021.07.06 23:35:32 -04'00'

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Issue Date: JUNE 23, 2021

Revisions

No.	Date	Description

CULPEPPER

Project Number: 20-169 Drawn By: CEC
Designed By: CEC Checked By: CEC

Sheet Title: EXHAUST FAN STRUCTURAL

Sheet Number: S-1 1 OF 1

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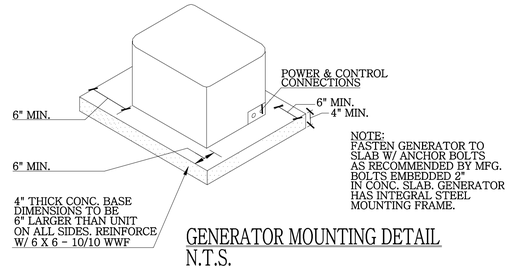
AERIAL SITE PLAN: 235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA
N.T.S.

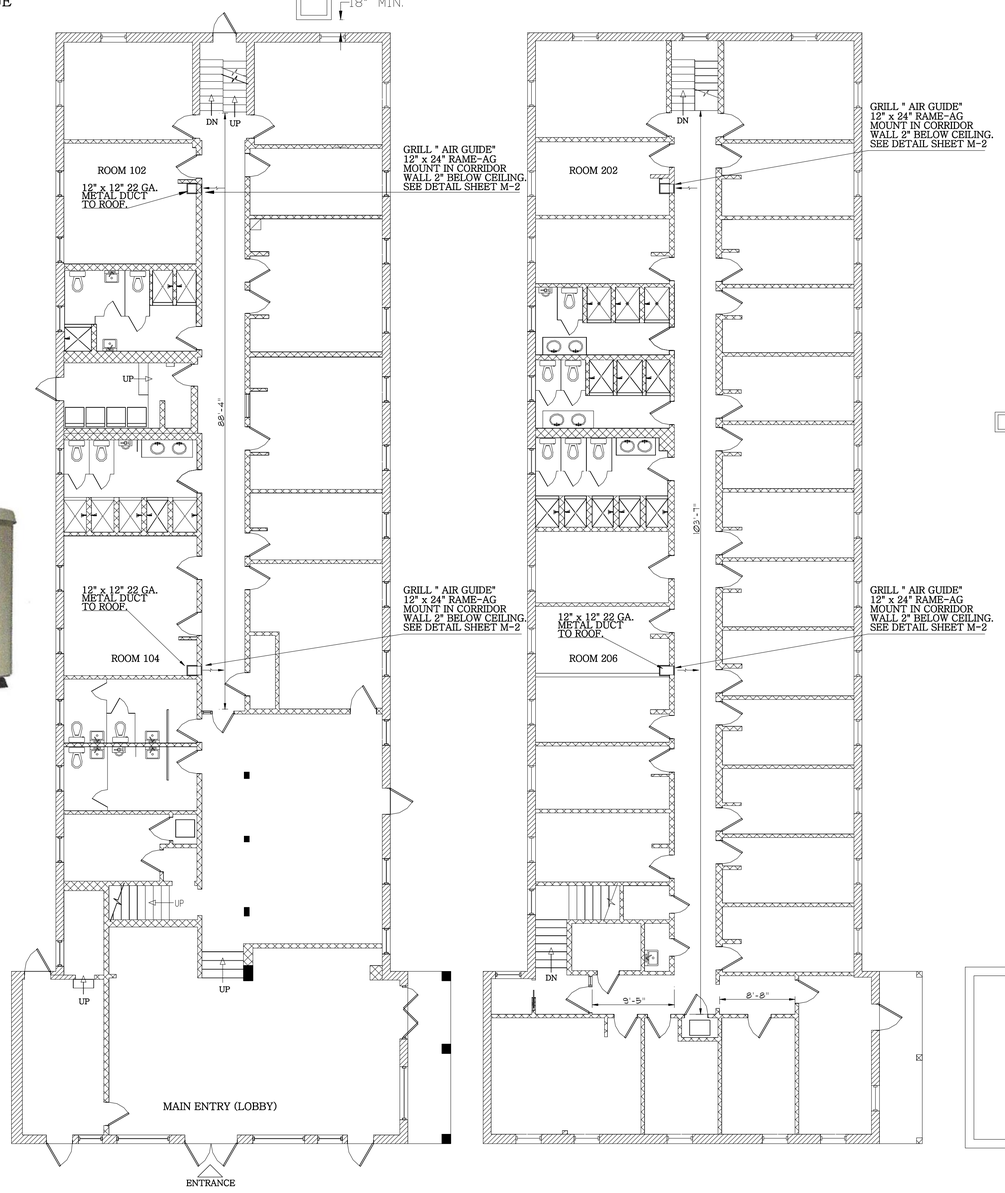
GREENHECK
Model: CUBE-141-5
Belt Drive Upblast Centrifugal Roof Exhaust Fan

GENERAC
Model: 6698
Standby Generator
7.5 KW

DATON MFG
Model: 5NKK3
Motorized Damper
120 Volts

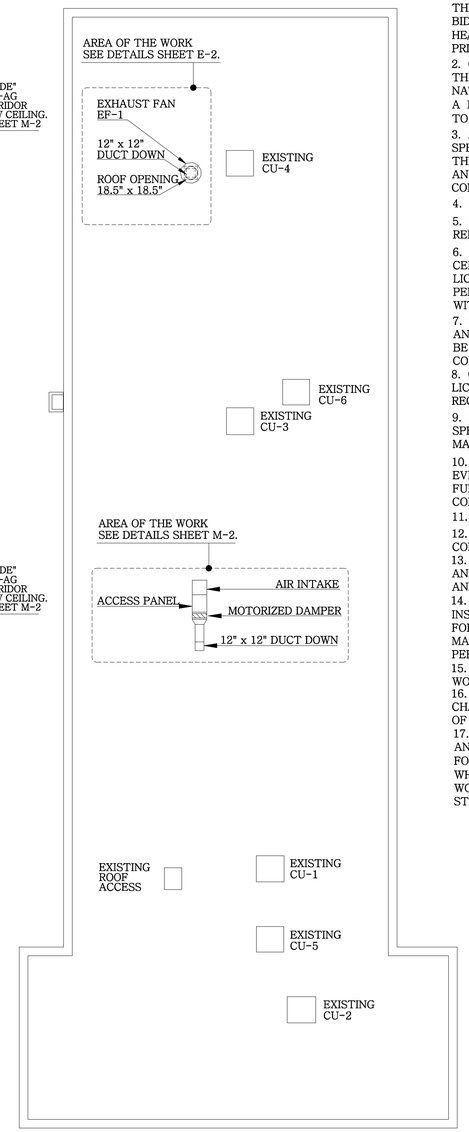


GENERATOR MOUNTING DETAIL
N.T.S.



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



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

CODES:

THE CODES IN EFFECT AT THE TIME OF THIS PLAN SUBMISSION ARE THE FLORIDA BUILDING CODE, EXISTING 2017.

SCOPE OF THE WORK:

1. THE SCOPE OF THE WORK IS TO FURNISH ALL LABOR AND PROVIDE AND INSTALL ALL NECESSARY MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE OPERATING SMOKE EXHAUST SYSTEM IN ACCORDANCE WITH THE GENERAL NOTES INCLUDED HEREIN AND THE SPECIFIC NOTES TO FOLLOW.
2. THE COMPLETE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED, TO THE FOLLOWING:
   A. EXHAUST FAN.
   B. MOTORIZED DAMPER.
   C. STANDBY GENERATOR.
   D. AIR DUCTS AND GRILLES.
   E. ALL CONTROLS.
   F. ALL ELECTRICAL POWER AND CONTROL WIRING.
   G. ALL APPURTENANCES REQUIRED FOR A COMPLETE OPERATING SYSTEM.
4. ALL EQUIPMENT SPECIFIED BY MANUFACTURER'S NUMBER SHALL INCLUDE ALL ACCESSORIES, CONTROLS, ETC. LISTED IN THE CATALOG AS STANDARD WITH THE EQUIPMENT. OPTIONAL OR ADDITIONAL ACCESSORIES SHALL BE FURNISHED AS SPECIFIED.
5. REFER TO ALL DRAWINGS AND COOPERATE WITH ALL OTHER TRADES IN ORDER PROPERLY COORDINATE THE WORK.

GENERAL NOTES:

1. IT IS THE INTENTION OF THESE DRAWINGS AND SPECIFICATIONS TO PROVIDE THE CONTRACTOR WITH SUFFICIENT INFORMATION FOR HIM/HER TO PREPARE A BID FOR A COMPLETE OPERATING INSTALLATION. IF THE CONTRACTOR FEELS HE/SHE NEEDS ADDITIONAL INFORMATION, CONTACT THE ENGINEER OF RECORD PRIOR TO SUBMITTING A BID.
2. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY ALL EXISTING CONDITIONS. THIS INCLUDES BUT SHALL NOT BE LIMITED TO: PROPOSED LOCATION AND NATURE OF ALL NEW WORK AND ANY EXISTING CONSTRUCTION. BY SUBMITTING A BID, THE CONTRACTOR VERIFIES THAT HE/SHE HAS PERFORMED THIS TASK TO HIS/HER OWN SATISFACTION.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, ALL LOCAL CODES AND ORDINANCES, IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EDITION AS NOTED AND IN ACCORDANCE WITH ANY NATIONAL REQUIREMENTS THAT ARE APPLICABLE . IN THE CASE OF ANY CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
4. CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE "ADA" ACT.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY RELATED OSHA REQUIREMENTS DURING CONSTRUCTION.
6. ALL WORK SHALL BE PERFORMED BY LICENSED AND INSURED STATE CERTIFIED CONTRACTORS OF THE PROPER DISCIPLINE OR, BY CONTRACTORS LICENSED AND INSURED IN THE JURISDICTION WHERE THE WORK IS TO BE PERFORMED OR, BY THE OWNER IF APPROVED BY THE LOCAL BUILDING OFFICIAL WITHIN THE JURISDICTION OF WHERE THE WORK IS TO BE PERFORMED.
7. INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK. NO WORKER SHALL BE PERMITTED ON THE JOB SITE THAT IS NOT COVERED BY WORKMEN'S COMPENSATION INSURANCE.
8. CONTRACTOR SHALL ARRANGE AND PAY FOR ALL REQUIRED PERMITS, FEES, LICENSES, INSPECTIONS, CONNECTIONS, TESTS AND OTHER CHARGES AS REQUIRED. OBTAIN ALL THE REQUIRED CERTIFICATES AND PRESENT TO OWNER.
9. CONTRACTOR IS DIRECTED TO REVIEW ALL THE BUILDING PLANS AND SPECIFICATIONS FOR LIMITATIONS OF CONSTRUCTION, IDENTIFICATION OF MATERIALS AND PRODUCTS, AND DEFINITION OF WORKMANSHIP.
10. IT IS NOT THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS REQUIRED TO MEET THE OBJECTIVES OF THE CONSTRUCTION AS DELINEATED HEREIN.
11. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER.
12. CONTRACTOR SHALL LEAVE THE WORK AREA IN A BROOM CLEAN CONDITION AT THE END OF EACH WORK DAY.
13. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL TRASH AND DEBRIS. DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH ALL LAWS AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
14. THIS CONTRACTOR SHALL WARRANT AND GUARANTEE THE COMPLETE INSTALLATION AGAINST DEFECTIVE MATERIAL AND/OR IMPROPER WORKMANSHIP FOR A MINIMUM OF ONE YEAR. FOR MATERIALS FOR WHICH THE MANUFACTURER HAS A LONGER WARRANTY OR GUARANTEE, THE LONGER PERIOD SHALL APPLY.
15. FURNISH AS-BUILT DRAWINGS TO THE OWNER UPON COMPLETION OF THE WORK.
16. CONTRACTOR SHALL CORRECT ANY DEFECTS WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
17. IN THE EVENT IT BECOMES NECESSARY FOR THIS CONTRACTOR TO CORRECT ANY IMPROPER WORKMANSHIP, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COLLATERAL DAMAGE TO EXISTING MATERIALS AND/OR EQUIPMENT WHICH MAY OCCUR AS A RESULT OF ANY CORRECTIONS TO HIS/HER OWN WORK IN COMPLIANCE WITH THIS REQUIREMENT. THIS INCLUDES ANY STRUCTURAL DAMAGE OR ANY DAMAGES TO FINISHES.

MECHANICAL NOTES:

MATERIALS:

1. ALL EXHAUST DUCTWORK SHALL BE 22 GAUGE GALVANIZED SHEET STEEL.
2. ALL FASTENERS SHALL BE ZINC PLATED AND SHALL CONFORM TO ASTM A325.
3. ALL STEEL ANGLES AND PLATES SHALL CONFORM TO ASTM A-36.
4. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A187-97.
5. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

METHODS:

1. INSTALL ALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS MANUALS AND RECOMMENDATIONS. PAY SPECIAL ATTENTION TO REQUIRED CLEARANCES FOR INSTALLATION, OPERATION AND MAINTENANCE.
2. PERFORM ALL WORK IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF SMACNA, THE NFPA, THE FLORIDA BUILDING CODE LATEST EDITION AND WITH ALL LOCAL CODES, ORDINANCES AND REGULATIONS.
3. PROVIDE DOUBLE THICKNESS TURNING VANES AT ALL SQUARE ELBOWS.

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Architectural Engineering

CHARLES E. CULPEPPER, JR.
801 BRICKELL BAY DRIVE
LOBBY, SUITE SEVEN
MIAMI, FLORIDA 33131
TEL: (305) 372-5189
CELL (786) 402-7017
ARCHITECTURAL • CIVIL • ELECTRICAL-ENVIRONMENTAL
MECHANICAL • STRUCTURAL
MIAMI • NEW YORK • CHICAGO

SMOKE EXHAUST FAN SYSTEM

PROJECT NAME

SOBE HOSTEL
235 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA 33139

CHARLES E. CULPEPPER, JR.
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW YORK LICENSE NO. 16-066511
STATE OF ILLINOIS LICENSE NO. 062-043107
STATE OF FLORIDA LICENSE NO. 14203

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Issue Date: SEPTEMBER 15, 2020

Revisions

No.	Date	Description

CULPEPPER

Project Number: 1786 Drawn By: CEC
Designed By: CEC Checked By: CEC

Sheet Title:
EXHAUST FAN FLOOR PLANS

Sheet Number:
M-1 1 OF 2

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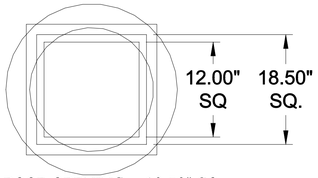
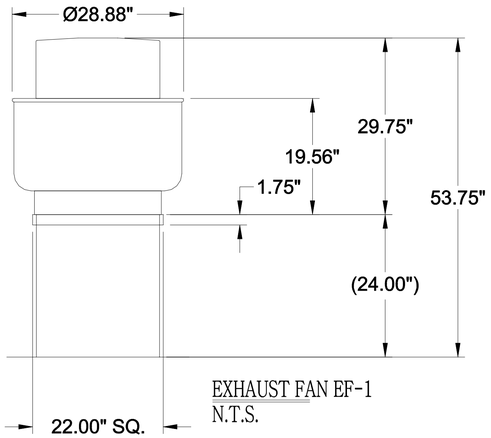
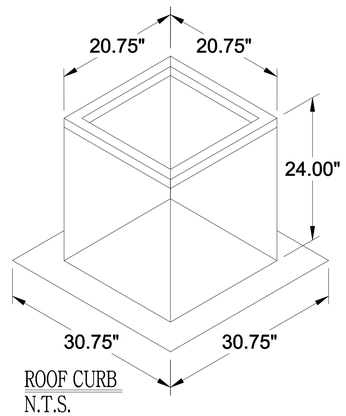
THE GENERAL CONTRACTOR AND ALL TRADES PERFORMING WORK ON THIS PROJECT SHALL BE EXCLUSIVELY RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AND WITH REPORTING ANY DISCREPANCIES TO CHARLES E. CULPEPPER, JR. BEFORE COMMENCING ANY WORK.



ROOF OPENING = 18.50" SQ.
EXHAUST DUCT SIZE = 12.00" SQ.



EXHAUST FAN EF-1
N.T.S.



ROOF CURB
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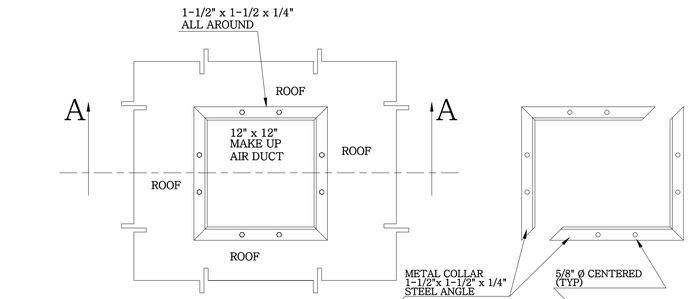
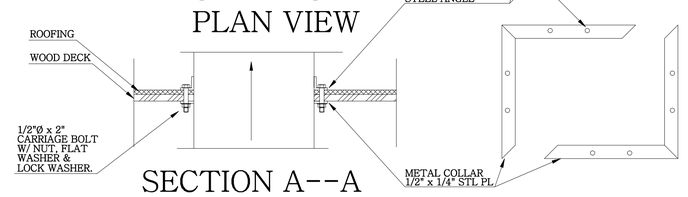
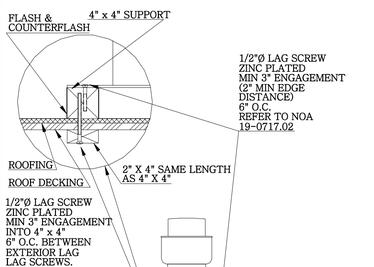
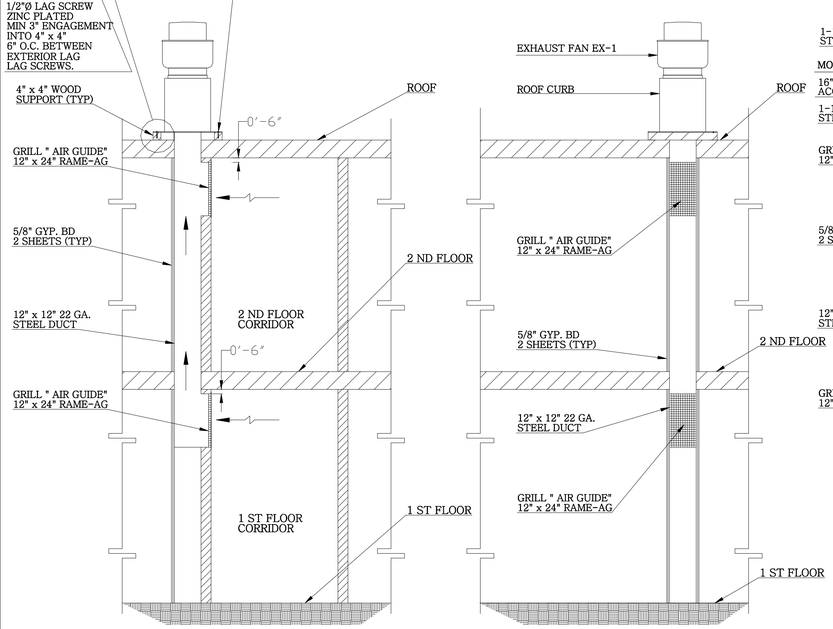


PLAN VIEW



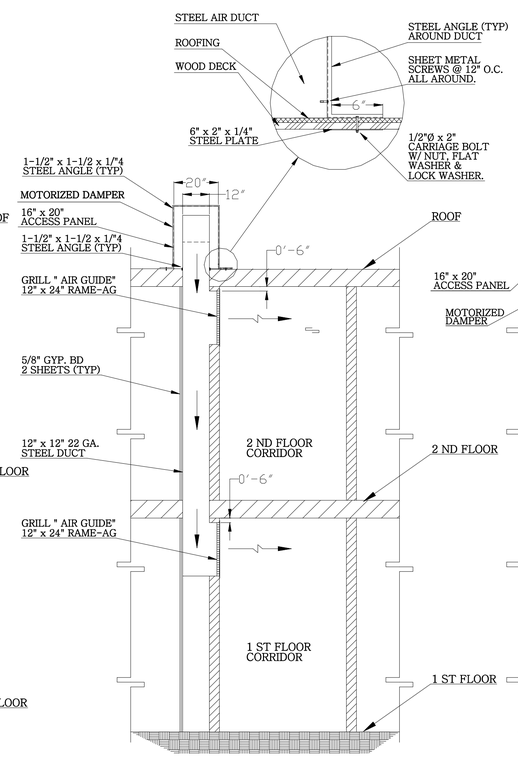
SECTION A--A



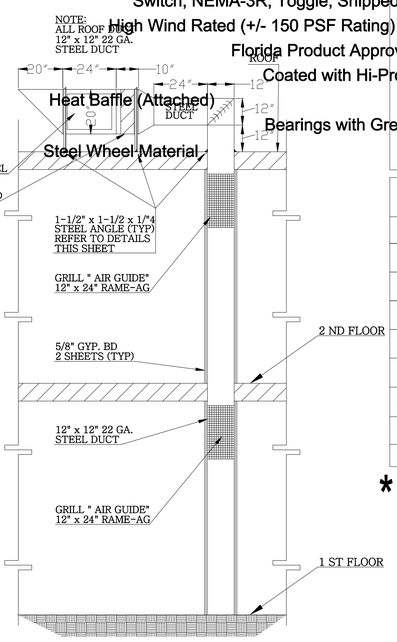


NORTH-SOUTH SECTION THRU EXHAUST DUCT
N.T.S.

EAST-WEST SECTION THRU EXHAUST DUCT
N.T.S.



NORTH-SOUTH SECTION THRU MAKE-UP AIR DUCT
N.T.S.



EAST-WEST SECTION THRU MAKE-UP AIR DUCT
N.T.S.

Belt Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHT (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGS	NEC FLA*
1	Mark 2	CUBE-141-5	1,500	0.75	1,228	0.39	78	0.5	115/60/1	OP	1725	1	9.8

*NEC FLA - Based on table 430.□250 or 430.□248 of National Electrical Code 2017. Actual motor FLA may vary for sizing thermal overload, consult factory"

EXHAUST FAN	
Dimensional	
Quantity	1
Weight w/o Acc's (lb)	74 LBS
Weight w/ Acc's (lb)	78 LBS
Weight w/ Acc's and Curb (lb)	125 LBS
Max T Motor Frame Size	145
Roof Opening (in.)	18.5" x 18.5"
Performance	
Volume (CFM)	1,500
Total External SP (in. wg)	0.75
Fan RPM	1228
Operating Power (hp)	0.39
Motor	
Motor Mounted	Yes
Size (hp)	1/2
Voltage/Cycle/Phase	115/60/1
Enclosure	ODP
Motor RPM	1725
Efficiency Rating	Standard
Windings	1
NEC FLA* (Amps)	9.8

Mark 2 : SELECTED OPTIONS AND ACCESSORIES

Standard curb cap size - 22 in. square
UL Listed - Power Vents for Smoke Control Systems (500F/4hrs + 1000F/15 mins)
Switch, NEMA-3R, Toggle, Shipped with Unit
High Wind Rated (+/- 150 PSF Rating)
Florida Product Approval #FL13225.1 & Miami-Dade NOA #19-0717.02
Coated with Hi-Pro Polyester, Concrete Gray-RAL 7023, Fan And Attached Acc
Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)

MOTORIZED DAMPER	
QUANTITY	1
MFG	DATON MFG
MODEL #	5NKK3
OPENING REQUIRED	20" x 20"
NO OF "F" PANELS	1
START	AUTOMATIC *
FLANGE WIDTH	1/2"
MATERIAL	ALUMINUM
ELEC. CHAR.	120/60/1

* NORMAL STATUS: SPRING CLOSED, POWER OPEN

STANDBY GENERATOR	
QUANTITY	1
MFG	GENERAC
MODEL #	6998
RATED WATTS	7.5 KW
FUEL TYPE	LIQUID PROPANE/ NATURAL GAS
AMPERES	31.25 LP/ 25 NG
START	AUTOMATIC
PHASE	SINGLE
TRANSFER SW	YES
CIRCUITS	8
ELEC. CHAR.	240/60/1
ENCLOSURE	STEEL/NEMA 3R
MOUNTING PAD	ATTACHED
BATTERY REQUIRED	YES
BATTERY INCLUDED	NO
DIMENSIONS (L x W x H)	36 x 27 x 36
WEIGHT	280 LBS

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CHARLES E. CULPEPPER, JR.
801 BRICKELL BAY DRIVE
LOBBY, SUITE SEVEN
MIAMI, FLORIDA 33131
TEL: (305) 372-0189
CELL (786) 402-7617
ARCHITECTURAL - CIVIL - ELECTRICAL - ENVIRONMENTAL
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SMOKE EXHAUST
FAN SYSTEM

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Revisions

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CULPEPPER

Project Number: 1784 Drawn By: CEC
Designed By: CEC Checked By: CEC

Sheet Title:
DETAILS

Sheet Number:
M-2 2 OF 2