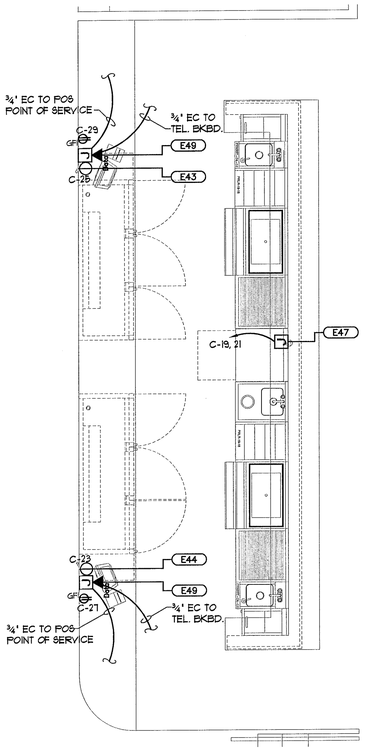
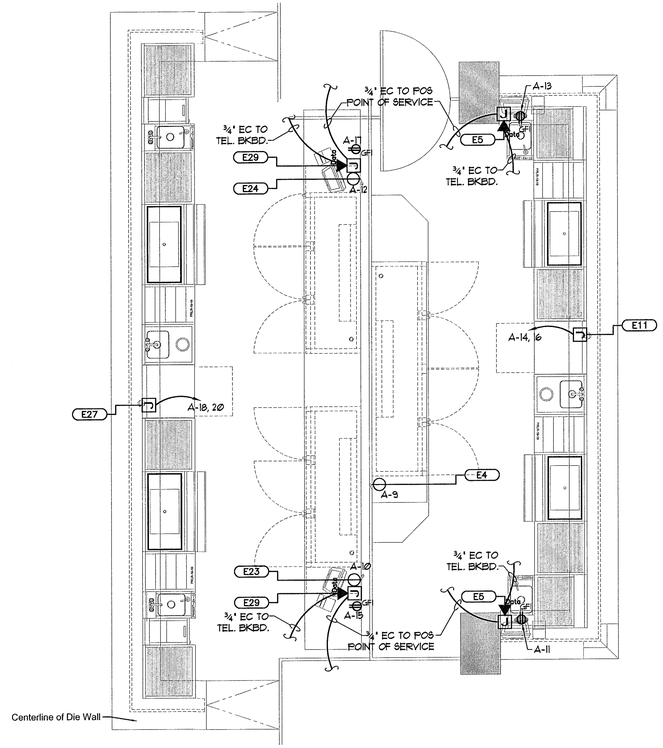


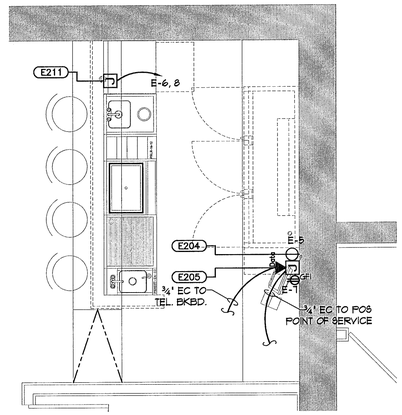
A Ground Floor Bar Electrical Rough–in Plan

Scale: 3/8" = 1'-0"



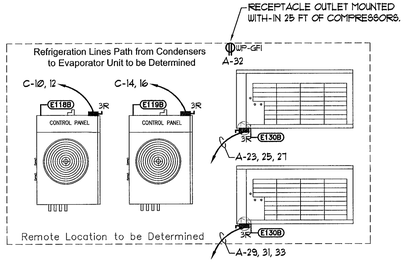
B Ground Floor Bar Electrical Rough–in Plan

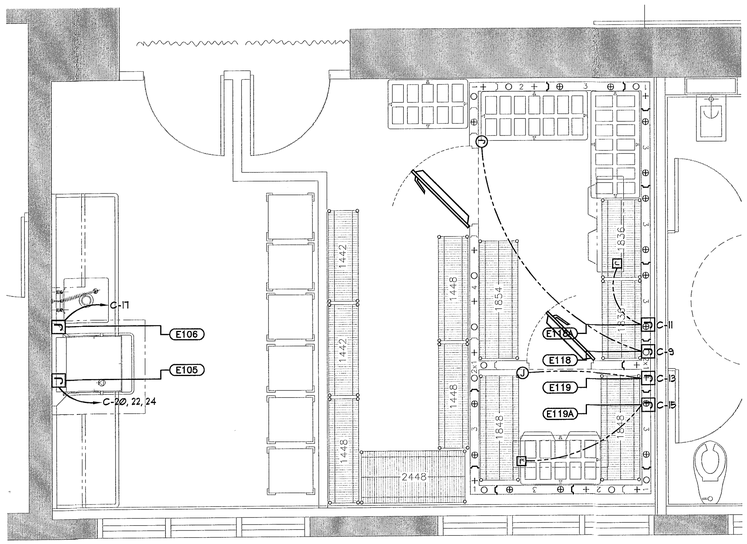
Scale: 3/8" = 1'-0"



E 4th Floor Bar – Electrical Rough–in Plan

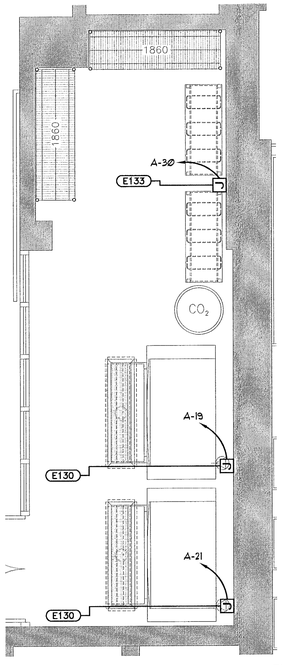
Scale: 3/8" = 1'-0"





C Ground Floor Warewash, Dry & Cold Storage Area – Electrical Rough–in Plan

Scale: 3/8" = 1'-0"



D Ground Floor Ice & Soda Area – Electrical Rough–in Plan

Scale: 3/8" = 1'-0"

Equipment Electrical Schedule

Item No.	Quan.	Description	Connection
E4	1	115V/60Hz/1Ph, 8.1 Amp 1/3 HP @ 9" AFF	NEMA 5-15P
E5	2	Junction Box & Data Port for POS (See Vendor Specs)	See Vendor Specs
E11	1	208V/60Hz/1Ph, 38.8 Amp 3/4 HP @ 8" AFF	Direct Connect
E23	1	115V/60Hz/1Ph, 8.1 Amp 1/3 HP @ 9" AFF	NEMA 5-15P
E24	1	115V/60Hz/1Ph, 8.1 Amp 1/3 HP @ 9" AFF	NEMA 5-15P
E27	1	208V/60Hz/1Ph, 38.8 Amp 3/4 HP @ 8" AFF	Direct Connect
E29	2	Junction Box & Data Port for POS (See Vendor Specs)	See Vendor Specs
E43	1	115V/60Hz/1Ph, 8.1 Amp 1/3 HP @ 9" AFF	NEMA 5-15P
E44	1	115V/60Hz/1Ph, 8.1 Amp 1/3 HP @ 9" AFF	NEMA 5-15P
E47	1	208V/60Hz/1Ph, 38.8 Amp 3/4 HP @ 8" AFF	Direct Connect
E49	2	Junction Box & Data Port for POS (See Vendor Specs)	See Vendor Specs
E105	1	208-230V/60Hz/3Ph, 54.8 Amp 15 kW 1 HP @ 18" AFF	Direct Connect
E106	1	115V/60Hz/1Ph, 4.8 Amp @ 108" AFF	Direct Connect
E118	1	120V/60Hz/1Ph, 5 Amp @ 108" AFF	Direct Connect
E118A	1	115V/60Hz/1Ph, 1.8 Amp @ 108" AFF	Direct Connect
E118B	1	208/230V/60Hz/1Ph, 15 Amp 1½ HP	Direct Connect
E119	1	120V/60Hz/1Ph, 5 Amp @ 108" AFF	Direct Connect
E119A	1	115V/60Hz/1Ph, 1.8 Amp @ 108" AFF	Direct Connect
E119B	1	208/230V/60Hz/1Ph, 15 Amp ¾ HP	Direct Connect
E130	2	115V/60Hz/1Ph, 2.0 Amp @ 84" AFF	Direct Connect
E130B	2	208-230V/60Hz/3Ph, 30.0 Amp 4½ HP	Direct Connect
E133	1	See Vender Specs	-
E204	1	115V/60Hz/1Ph, 8.1 Amp 1/3 HP @ 9" AFF	NEMA 5-15P
E205	1	Junction Box & Data Port for POS (See Vendor Specs)	See Vendor Specs
E211	1	208V/60Hz/1Ph, 38.8 Amp 3/4 HP @ 8" AFF	Direct Connect

NOTE:

THE CONTRACTOR SHALL OBTAIN EQUIPMENT ELECTRICAL INSTALLATION MANUALS OF THE EQUIPMENT BEING INSTALLED AND COMPARE THE ELECTRICAL REQUIREMENTS OF THE INSTALLATION MANUAL TO THOSE SHOWN ON THE ELECTRICAL DRAWINGS PRIOR TO BID. ANY DISCREPANCIES SHALL BE BROUGHT UP TO THE ENGINEERS ATTENTION. DO NOT BID ROUGH PRIOR TO COORDINATING WITH INSTALLATION MANUALS.
NO EXTRAS WILL BE ALLOWED FOR FAILURE TO DO SO.

Electrical Notes:

1. This drawing locates electrical points of Connect for each item of food service equipment supplied by M Tucker Co. only. The design of systems to accommodate these requirements is by others and is to be in accordance with all local codes and meet the approval of all governing authorities.
2. Location, sizes, and heights above floor are approximately, but in accordance with specifications of respective equipment.
3. All main switches, safety cut outs, fuse boxes, disconnect switches and/ or other electrical controls, fittings and Connects in kitchen and other areas shall be furnished and installed by mechanical (electrical) contractor.
4. Fire protection systems shall be wired to the electrical emergency service. All electrical control switches required for vent exhaust and fire protection systems shall be furnished and installed by others unless otherwise specified.
5. All electrical wiring, Connects, conduit, and external Connects from point of Connect on the equipment to rough-in point as shown on these plans will be done by mechanical (electrical) contractor unless otherwise specified.
6. Unless otherwise is specified, all units having motors exceeding 1Hp. or 5 Kw. heater elements shall be connected to 3 phase current and will have overload protectors provided by mechanical (electrical) contractors unless otherwise specified.
7. For areas shown, this drawing must be used for equipment noted in conjunction with electrical drawings for others' required utilities.
8. Provide computer grade clean ground service for electronic cash registers as needed.

LEGEND

•	C.W.	COLD WATER	▲	CONDUIT for EQUIP. INDICATED	
•	H.W.	HOT WATER	ⓢ	S.O.	SINGLE OUTLET
◎	W.	WASTE	ⓓ	D.O.	DOUBLE OUTLET
□	F.D.	FLOOR DRAIN	J	J.B.	JUNCTION BOX BY OTHERS
●●	G.	GAS	J	J.B.	JUNCTION BOX ON FIXTURE
⊕	SODA LINES		S	S.	SWITCH
	V	VOLTS		AFF	HEIGHT ABOVE FINISH FLOOR
	PH	PHASE		B.F.	HEIGHT BELOW FINISH FLOOR
	HP	HORSEPOWER		B.T.U.	BRITISH THERMAL UNITS
	kW	KILOWATT		C.F.M.	CUBIC FEET PER MINUTE
	B.O.	BY OTHERS		GPM	GALLONS/ MINUTE
	D.F.A.	DOWN FROM ABOVE		CTW	COOLING TOWER WATER

THESE PLANS ARE FOR BUILDING DEPARTMENT REVIEW. THEY ARE NOT TO BE CONSTRUED AS FINAL CONSTRUCTION DOCUMENTS UNTIL ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED AND COMMENTS INCORPORATED INTO THESE DWGS. DUE TO THE VARIATIONS IN INTERPRETATIONS OF THE CODE THAT OCCUR IN DIFFERENT MUNICIPALITIES FINAL APPROVAL AND REVIEW IS NEEDED TO ASSURE COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

CIRCUITS ADDED TO FLOOR PLANS. 1

REVISIONS / SUBMISSIONS
1 11-2-11 COORDINATION AAF

1151

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MIAMI BEACH, FLORIDA

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Lic. # AR0012578

K • B I K A R P

9-8-11
PERMIT SET

Electrical Plans ...ner

VIVIANA FRANYIE LICENSE No. 49985 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV. 8 2011

FRANYIE ENGINEERS INC.
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DESIGN: DRAWN: 9-8-11
JOB NUMBER 11-210

FD PRINTED Nov 3 2011

DRAWN BY:	MD,JO
CHECKED BY:	JG
DATE:	09-08-11

E-300

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ETC OR EQUAL

NEW PANEL "DIM"

LOCATION: BACK STAGE — 200 A. M.L.O. — 120/ 208V. 3 φ 4 W. AIC RATING: 42K MOUNT: SURFACE

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	LIGHTING	20	1	1.2	#10 - ½" C	2	LIGHTING	20	1	1.0	#10 - ½" C
3	LIGHTING	20	1	1.6	#10 - ½" C	4	LIGHTING	20	1	1.0	#10 - ½" C
5	LIGHTING	20	1	1.1	#10 - ½" C	6	LIGHTING	20	1	1.0	#10 - ½" C
7	LIGHTING	20	1	1.4	#10 - ½" C	8	LIGHTING	20	1	1.2	#10 - ½" C
9	LIGHTING	20	1	1.4	#10 - ½" C	10	LIGHTING	20	1	1.0	#10 - ½" C
11	LIGHTING	20	1	0.8	#10 - ½" C	12	LIGHTING	20	1	1.0	#10 - ½" C
13	LIGHTING	20	1	0.8	#10 - ½" C	14	LIGHTING	20	1	1.0	#10 - ½" C
15	LIGHTING	20	1	0.7	#10 - ½" C	16	LIGHTING	20	1	1.0	#10 - ½" C
17	LIGHTING	20	1	0.7	#10 - ½" C	18	LIGHTING	20	1	1.0	#10 - ½" C
19	LIGHTING	20	1	0.9	#10 - ½" C	20	LIGHTING	20	1	1.0	#10 - ½" C
21	LIGHTING	20	1	0.9	#10 - ½" C	22	LIGHTING	20	1	1.0	#10 - ½" C
23	LIGHTING	20	1	1.0	#10 - ½" C	24	LIGHTING	20	1	1.0	#10 - ½" C
25	LIGHTING	20	1	1.0	#10 - ½" C	26	LIGHTING	20	1	1.0	#10 - ½" C
27	LIGHTING	20	1	1.0	#10 - ½" C	28	LIGHTING	20	1	1.0	#10 - ½" C
29	LIGHTING	20	1	1.0	#10 - ½" C	30	LIGHTING	20	1	1.0	#10 - ½" C
31	LIGHTING	20	1	1.6	#10 - ½" C	32	LIGHTING	20	1	1.5	#10 - ½" C
33	LIGHTING	20	1	1.6	#10 - ½" C	34	LIGHTING	20	1	1.5	#10 - ½" C
35	LIGHTING	20	1	1.5	#10 - ½" C	36	LIGHTING	20	1	1.2	#10 - ½" C
37	LIGHTING	20	1	1.4	#10 - ½" C	38	LIGHTING	20	1	1.4	#10 - ½" C
39	LIGHTING	20	1	1.2	#10 - ½" C	40	LIGHTING	20	1	1.3	#10 - ½" C
41	LIGHTING	20	1	1.2	#10 - ½" C	42	LIGHTING	20	1	1.2	#10 - ½" C
43	LIGHTING	20	1	1.6	#10 - ½" C	44	LIGHTING	20	1	1.4	#10 - ½" C
45	LIGHTING	20	1	1.8	#10 - ½" C	46	LIGHTING	20	1	1.5	#10 - ½" C
47	LIGHTING	20	1	1.5	#10 - ½" C	48	LIGHTING	20	1	0.8	#10 - ½" C
49	LIGHTING	20	1	1.3	#10 - ½" C	50	LIGHTING	20	1	0.8	#10 - ½" C
51	SPACE	-	-	-	-	52	LIGHTING	20	1	1.0	#10 - ½" C
53	SPACE	-	-	-	-	54	LIGHTING	20	1	1.2	#10 - ½" C
55	SPACE	-	-	-	-	56	SPACE	-	-	-	-
57	SPACE	-	-	-	-	58	SPACE	-	-	-	-
59	SPACE	-	-	-	-	60	SPACE	-	-	-	-
61	SPACE	-	-	-	-	62	SPACE	-	-	-	-
63	SPACE	-	-	-	-	64	SPACE	-	-	-	-
65	SPACE	-	-	-	-	66	SPACE	-	-	-	-
67	SPACE	-	-	-	-	68	SPACE	-	-	-	-
69	SPACE	-	-	-	-	70	SPACE	-	-	-	-
71	SPACE	-	-	-	-	72	SPACE	-	-	-	-

CONNECTED K.V.A. = 57.5 TOTAL AMPS = 160.0

FEEDER : SEE PANEL 'DPA'

CALCULATIONS FOR PANEL 'DIM'

LIGHTING LOAD ——— 46.0 KW @125 % 57.5 KW

TOTAL LOAD 57.5 KW

57.5 KW @ 208V, 3 PHASE = 160.0 A.

NOTES

1. ALL CIRCUITS TO BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR.
2. PANEL TO BE PROVIDED WITH A REMOTE CONTROL STATION AT DJ CONTROL.
3. ALL CIRCUITS TO BE DIMMEABLE EXCEPT WHEN CONTROLLED BY LOCAL SWITCH WITH-IN A ROOM.

NEW PANEL "E"

LOCATION: 4th FL. CORRIDOR — 100 A. M.L.O. — 120/ 208V. 3 φ 4 W. AIC RATING: 22K MOUNT: FLUSH

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	BATHROOM RECS.	20	1	0.7	#12 - ½" C	2	GENERAL RECS.	20	1	0.7	#12 - ½" C
3	ROOF RECS.	20	1	0.4	#12 - ½" C	4	H.C. LIFT	20	1	1.2	#12 - ½" C
(GFI) 5	(E204) BAR EQUIP	20	1	1.0	#12 - ½" C	6	(E211) WAREWASHER (▲)	50	2	8.1	#6 - 1" C
7	(E205) BAR POS	20	1	0.7	#12 - ½" C	8					
9	SPARE	20	1	-	-	10	SPARE	20	1	-	-
11	SPARE	20	1	-	-	12	SPARE	20	1	-	-
13	SPACE	-	-	-	-	14	SPACE	-	-	-	-
15	SPACE	-	-	-	-	16	SPACE	-	-	-	-
17	SPACE	-	-	-	-	18	SPACE	-	-	-	-
19	SPACE	-	-	-	-	20	SPACE	-	-	-	-
21	SPACE	-	-	-	-	22	SPACE	-	-	-	-
23	SPACE	-	-	-	-	24	SPACE				

CONNECTED K.V.A. = 12.8 TOTAL AMPS = 35.6

FEEDER : -

CALCULATIONS FOR PANEL 'E'

LOAD ——— 12.8 KW @100% 12.8 KW

TOTAL LOAD 12.8 KW

12.8 KW @ 208V, 3 PHASE = 35.6 A.

(GFI) PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER

(▲) EQUIPMENT WITH DEMAND PER NEC 220-56

EXIST. PANEL "AC2"

LOCATION: ROOF — (NEMA 3R) — 200 A. M.L.O. — 208V. 3 φ 3 W. MOUNT: SURFACE

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1						2					
3	EXIST. RTU #5	90	3	18.7	(E)	4	EXIST. RTU #1	90	3	18.7	(E)
5						6					
7						8	SPACE	-	-	-	-
9	EXIST. RTU #4	90	3	18.7	(E)	10	SPACE	-	-	-	-
11						12	SPACE	-	-	-	-
13	SPACE	-	-	-	-	14	SPACE	-	-	-	-
15	SPACE	-	-	-	-	16	SPACE	-	-	-	-
17	SPACE	-	-	-	-	18	SPACE	-	-	-	-
19	SPACE	-	-	-	-	20	SPACE	-	-	-	-
21	SPACE	-	-	-	-	22	SPACE	-	-	-	-
23	SPACE	-	-	-	-	24	SPACE	-	-	-	-
25	SPACE	-	-	-	-	26	SPACE	-	-	-	-
27	SPACE	-	-	-	-	28	SPACE	-	-	-	-
20	SPACE	-	-	-	-	30	SPACE	-	-	-	-

CONNECTED K.V.A. = 60.8 TOTAL AMPS = 168.9

FEEDER : 3 #3/0 - 2"C

(E) DENOTES EXISTING

CALCULATIONS FOR PANEL 'AC2'

LARGEST MOTOR ——— 18.7 KW @125% 23.4 KW

REST OF LOAD ——— 37.4 KW @100% 37.4 KW

TOTAL LOAD 60.8 KW

60.8 KW @ 208V, 3 PHASE = 168.9 A.

EXIST. DIST. PANEL "DP"

LOCATION: STAGE — 600A M.L.O. — 120/208 V 3 Ø 4 W. MOUNTING: SURFACE

CKT	SERVES	AMPS A Ø	AMPS B Ø	AMPS C Ø	AMPS N	C.B.	P.	WIRE - CONDUIT	REMARKS
1	EXIST. PNL "AC1"	169	169	169	-	200	3	SEE PANEL SCHEDULE	
2	EXIST. PNL "AC2"	157	157	157	-	200	3	SEE PANEL SCHEDULE	
3	FUTURE STAGE EQUIP.	150	150	150	-	200	3	4 # 3/0, 1 #4(G) - 2"C	STAGE EQUIP (FUTURE)
4	SPACE	-	-	-	-	-	3	-	
5	SPACE	-	-	-	-	-	3	-	
6	SPACE	-	-	-	-	-	3	-	
TOTAL AMPS		476	476	476	-				

FEEDER : SEE RISER DIAGRAM

SQ'D NQOD

NEW PANEL "C"

LOCATION: DRY LIQUOR — Cu BUS/GDN. BUS — 225 A. M.L.O. — 120/ 208V. 3 φ 4 W. AIC RATING: 42K MOUNT: FLUSH

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	BATHROOM RECS.	20	1	0.7	#12 - ½" C	2	FACP/VOICE PNL. (*)	20	1	0.7	#12 - ½" C
3	SEATING AREA RECS.	20	1	0.7	#12 - ½" C	4	FACP/VOICE PNL. (*)	20	1	0.7	#12 - ½" C
5	H. C. LIFT	20	1	1.2	#12 - ½" C	6	BATHROOM RECS.	20	1	0.7	#12 - ½" C
7	GREEN ROOM RECS.	20	1	0.7	#12 - ½" C	8	ROOF RECS.	20	1	0.2	#12 - ½" C
(▲) 9	(E118) COOLER	20	1	0.6	#12 - ½" C	10	(E118 B) CONDENSER (▲)	30	2	3.1	#10 - ¾" C
(▲) 11	(E118A) COOLER	20	1	0.2	#12 - ½" C	12					
(▲) 13	(E119) FREEZER	20	1	0.6	#12 - ½" C	14	(E105 B) WAREWASHER (▲)	70	3	3.1	#10 - ¾" C
(▲) 15	(E119 A) FREEZER EVAP	20	1	0.2	#12 - ½" C	16					
(▲) 17	(E106) HOOD	20	1	0.6	#12 - ½" C	18					
(▲) 19	(E47) WAREWASHER	50	2	8.1	#6 - 1" C	20	(E105 B) WAREWASHER (▲)	70	3	19.7	#4 - 1¼" C
21						22					
(▲)GFI 23	(E44) BAR EQUIP.	20	1	1.0	#12 - ½" C	24					
(▲)GFI 25	(E43) BAR EQUIP.	20	1	1.0	#12 - ½" C	26	SPARE	20	1	-	-
27	(E49) POS	20	1	0.7	#12 - ½" C	28	SPARE	20	1	-	-
29	(E49) POS	20	1	0.7	#12 - ½" C	30	SPARE	20	1	-	-
31	RECEPTACLES	20	1	0.7	#12 - ½" C	32	SPARE	20	1	-	-
33	SPACE	-	-	-	-	34	SPARE	20	1	-	-
35	SPACE	-	-	-	-	36	SPARE	20	1	-	-
37	SPACE	-	-	-	-	38	SPACE	-	-	-	-
39	SPACE	-	-	-	-	40	SPACE	-	-	-	-
41	SPACE	-	-	-	-	42	SPACE	-	-	-	-

CONNECTED K.V.A. = 31.5 TOTAL AMPS = 86.4

FEEDER : SEE PANEL 'DPA'

CALCULATIONS FOR PANEL 'C'

EQUIPMENT WITH DEMAND PER NEC 250.56 ——— 38.2 KW x 0.65 24.8 KW

REST OF LOAD ——— 6.3 KW @100% 6.3 KW

TOTAL LOAD 31.1 KW

31.1 KW @ 208V, 3 PHASE = 86.4 A.

(GFI) PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER

(▲) EQUIPMENT WITH DEMAND PER NEC 220-56

(*) PROVIDE RED LOCK ON BREAKER

SQ'D I-LINE

NEW PANEL "AC3"

LOCATION: BACK STAGE ENTRY — 600 A. M.L.O. — 120/ 208V. 3 φ 4 W. AIC RATING: 42K MOUNT: SURFACE

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1						2					
3	NEW RTU #1 (*)	45	3	13.2	#6 - 1"C	4	NEW AHU #1 (*)	40	3	12.5	#8 - ¾"C
5						6					
7						8					
9	NEW AHU #3 (*)	35	3	12.5	#8 - ¾"C	10	NEW AHU #4 (*)	40	3	12.5	#8 - ¾"C
11						12					
13						14					
15	NEW CU #3 (*)	125	3	31.5	#1 - 2"C	16	NEW CU #4 (*)	50	3	11.9	#6 - 1"C
17						18					
19						20	EXIST. AHU (*)	40	2	5.0	#8 - ¾"C
21	NEW AHU #2 (*)	40	3	12.5	#8 - ¾"C	22					
23						24	EXIST. CU (*)	40	2	4.2	#8 - ¾"C
25						26					
27	NEW CU #1 (*)	35	3	6.2	#8 - ¾"C	28	NEW RTU #2 (*)	90	3	18.7	#1 - 2" C
29						30					
31						32					
33	NEW CU #2 (*)	35	3	6.2	#8 - ¾"C	34	NEW WATER HEATER	60	3	15.0	#6 - 1" C
35						36					
37						38					
φ 39	NEW ELEV.	175	3	33.0	SEE RISER	40	SPACE	-	-	-	-
41						42	SPACE	-	-	-	-

CONNECTED K.V.A. = 123.8 TOTAL AMPS = 343.9

FEEDER : SEE ELECTRICAL RISER DIAGRAM

CALCULATIONS FOR PANEL 'AC3'

LARGEST MOTOR ——— 31.5 KW @125% 39.4 KW

REST OF LOAD ——— 117.0 KW @100% 117.0 KW

TOTAL LOAD 155.4 KW

155 KW @ 208V, 3 PHASE = 435 A.

(*) COOLING & HEATING LOADS ARE NON-CONCURRENT. PROVIDE HACR TYPE BREAKER

φ SHUNT TRIP TYPE BREAKER W/ RK5 TIME DELAY

SQ'D I-LINE

NEW DIST. PANEL "DPA"

LOCATION: BACK STAGE ENTRY — Cu BUS/GDN. BUS — 600A M.L.O. — 120/208 V 3 Ø 4 W. RATING: 42K MOUNTING: SURFACE

CKT	SERVES	AMPS A Ø	AMPS B Ø	AMPS C Ø	AMPS N	C.B.	P.	WIRE - CONDUIT	REMARKS
1	NEW PNL 'A'	99	99	99	99	200	3	4 #3/0 & 1 #6 (G) - 2"C	
2	NEW PNL 'C'	86	86	86	86	200	3	4 #3/0 & 1 #6 (G) - 2"C	
3	NEW PNL 'D'	48	48	48	48	100	3	4 #2 & 1 #6 (G) - 1½"C	
4	NEW PNL 'DIM'	160	160	160	160	200	3	4 #3/0 & 1 #6 (G) - 2"C	
5	NEW PNL 'E'	36	36	36	36	70	3	4 #4 & 1 #8 (G) - 1½"C	
6	SPACE	-	-	-	-	-	3	-	
TOTAL AMPS		429	429	429	429				

FEEDER : SEE RISER DIAGRAM

SQ'D NQOD

NEW PANEL "D"

LOCATION: RECEPTION 2ND FLOOR — Cu BUS/GDN. BUS — 225 A. M.L.O. — 120/ 208V. 3 φ 4 W. AIC RATING: 22K MOUNT: FLUSH

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	OFFICE #1 RECS.	20	1	0.7	#12 - ½" C	2	OFFICE #4 RECS.	20	1	0.7	#12 - ½" C
3	RECEPTION RECS.	20	1	0.5	#12 - ½" C	4	GEN. LOBBY RECS.	20	1	0.4	#12 - ½" C
5	OFFICE #2 RECS.	20	1	0.7	#12 - ½" C	6	BATHROOM RECS.	20	1	0.7	#12 - ½" C
7	OFFICE RECS.	20	1	0.7	#12 - ½" C	8	LOUNGE AREA RECS.	20	1	0.4	#12 - ½" C
9	OFFICE #3 RECS.	20	1	0.7	#12 - ½" C	10	ROOF RECS.	20	1	0.4	#12 - ½" C
11	ELEV. CAB LTS DISC.	20	1	0.8	#12 - ½" C	12	GENERAL RECS.	20	1	0.9	#12 - ½" C
13	AC-1M	30	2	3.0	#10 - ½"C	14	DJ RECS.	20	1	1.5	#12 - ½" C
15						16	DJ RECS.	20	1	1.5	#12 - ½" C
17	ELEV. MACH. RM RECS	20	1	0.2	#12 - ½" C	18	DJ RECS.	20	1	1.5	#12 - ½" C
19	H.C. LIFT	20	1	1.2	#12 - ½" C	20	SPARE	20	1	-	-
21	SPARE	20	1	-	-	22	SPARE	20	1	-	-
23	SPARE	20	1	-	-	24	SPARE	20	1	-	-
25	SPARE	20	1	-	-	26	SPARE	20	1	-	-
27	SPARE	20	1	-	-	28	SPARE	20	1	-	-
29	SPARE	20	1	-	-	30	SPARE	20	1	-	-
31	SPACE	-	-	-	-	32	SPACE	-	-	-	-
33	SPACE	-	-	-	-	34	SPACE	-	-	-	-
35	SPACE	-	-	-	-	36	SPACE	-	-	-	-
37	SPACE	-	-	-	-	38	SPACE	-	-	-	-
39	SPACE	-	-	-	-	40	SPACE	-	-	-	-
41	SPACE	-	-	-	-	42	SPACE	-	-	-	-

CONNECTED K.V.A. = 17.3 TOTAL AMPS = 48.0

FEEDER : SEE PANEL 'DPA'

CALCULATIONS FOR PANEL 'D'

LARGEST MOTOR ——— 3.0 KW @125% 3.8 KW

REST OF LOAD ——— 13.5 KW @100% 13.5 KW

TOTAL LOAD 17.3 KW

17.3 KW @ 208V, 3 PHASE = 48.0 A.

SQ'D NQOD

NEW PANEL "A"

LOCATION: CORRIDOR — Cu BUS/GDN. BUS — 225 A. M.L.O. — 120/ 208V. 3 φ 4 W. AIC RATING: 42K MOUNT: FLUSH

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	BATHROOM RECS.	20	1	0.7	#12 - ½" C	2	ELEV. PIT RECS.	20	1	0.2	#12 - ½" C
3	GENERAL RECS.	20	1	0.4	#12 - ½" C	4	SUMP PUMP	20	1	0.8	#12 - ½" C
5	ENTRANCE RECS.	20	1	0.7	#12 - ½" C	6	BATH/CORR. RECS.	20	1	0.7	#12 - ½" C
7	ENTRANCE DESK RECS.	20	1	0.5	#12 - ½" C	8	BATHROOM RECS.	20	1	0.7	#12 - ½" C
(▲)GFI 9	(E4) BACK-BAR EQUIP	20	1	1.0	#12 - ½" C	10	(E23) BACK BAR EQUIP	20	1	1.0	#12 - ½" C GFI (▲)
11	(E5) POS	20	1	0.7	#12 - ½" C	12	(E24) BAR EQUIP	20	1	1.0	#12 - ½" C GFI (▲)
13	(E5) POS	20	1	0.7	#12 - ½" C	14	(E11) BAR WARE WASHER	50	2	8.1	#6 - 1" C (▲)
15	(E29) POS	20	1	0.7	#12 - ½" C	16					
17	(E29) POS	20	1	0.7	#12 - ½" C	18	(E27) BAR WARE WASHER	50	2	8.1	#6 - 1" C (▲)
(▲) 19	(E130) ICE MAKER	20	1	0.2	#12 - ½" C	20					
(▲) 21	(E130) ICE MAKER	20	1	0.2	#12 - ½" C	22	SPARE	20	1	-	-
(▲) 23						24	SPARE	20	1	-	-
25	(E130B) COMPRESSOR	60	3	10.8	#6 - 1" C	26	SPARE	20	1	-	-
27						28	SPARE	20	1	-	-
(▲) 29						30	(E133) BAG-IN BOX	20	1	1.0	#12 - ½" C (▲)
31	(E130B) COMPRESSOR	60	3	10.8	#6 - 1" C	32	ROOF RECEPTS	20	1	0.7	#12 - ½" C
33						34	SPACE	-	-	-	-
35	ROOF RECEPTACLES	20	1	0.2	#12 - ½" C	36	SPACE	-	-	-	-
37	SPACE	-	-	-	-	38	SPACE	-	-	-	-
39	SPACE	-	-	-	-	40	SPACE	-	-	-	-
41	SPACE	-	-	-	-	42	SPACE	-	-	-	-

CONNECTED K.V.A. = 35.6 TOTAL AMPS = 98.8

FEEDER : SEE PANEL 'DPA'

CALCULATIONS FOR PANEL 'A'

EQUIPMENT WITH DEMAND PER NEC 250.56 ——— 42.2 KW x 0.65 27.4 KW

REST OF LOAD ——— 8.2 KW @100% 8.2 KW

TOTAL LOAD 35.6 KW

35.6 KW @ 208V, 3 PHASE = 98.8 A.

(GFI) PROVIDE GROUND FAULT TYPE CIRCUIT BREAKER

(▲) EQUIPMENT WITH DEMAND PER NEC 220-56

EXIST. PANEL "AC1"

LOCATION: ROOF — (NEMA 3R) — 200 A. M.L.O. — 208V. 3 φ 3 W. MOUNT: SURFACE

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	EXIST. CU	40	2	7.2	(E)	2					
3						4	EXIST. RTU #3	90	3	18.7	(E)
5						6					
7	EXIST. RTU #2	60	3	18.7	(E)	8	SPACE	-	-	-	-
9						10	EXIST. CU	40	2	7.2	(E)
11	SPACE	-	-	-	-	12					
13	SPACE	-	-	-	-	14					
15	SPACE	-	-	-	-	16	SPARE	100	3	-	-
17	SPACE	-	-	-	-	18					
19	SPACE	-	-	-	-	20					

CONNECTED K.V.A. = 56.5 TOTAL AMPS = 156.9

FEEDER : 3 #3/0 - 2"C

(E) DENOTES EXISTING

CALCULATIONS FOR PANEL 'AC1'

LARGEST MOTOR ——— 18.7 KW @125% 23.4 KW

REST OF LOAD ——— 33.1 KW @100% 33.1 KW

TOTAL LOAD 56.5 KW

56.5 KW @ 208V, 3 PHASE = 156.9 A.

PANEL INDEX

DIM	E	AC2	DP
	C	AC3	DPA
	D	A	AC1

THESE PLANS ARE FOR BUILDING DEPARTMENT REVIEW. THEY ARE NOT TO BE CONSTRUED AS FINAL CONSTRUCTION DOCUMENTS UNTIL ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED AND COMMENTS INCORPORATED INTO THESE DWGS. DUE TO THE VARIATIONS IN INTERPRETATIONS OF THE CODE THAT OCCUR IN DIFFERENT MUNICIPALITIES FINAL APPROVAL AND REVIEW IS NEEDED TO ASSURE COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

Electrical Plans Examiner Lic. # PX 2611

VIVIANA FRANYIE LICENSE No. 49985 STATE OF FLORIDA PROFESSIONAL ENGINEER Nov 18 2011

FRANYIE ENGINEERS INC. — ANTONIO FRANYIE PE #11640 MECH — VIVIANA FRANYIE PE #49985 ME — Certificate of Authorization # 00002906 — 10610 NW 27 Street, Miami FL 33172 TEL: (305) 592-1360 FAX: (305) 594-9279 www.franyieengineers.com — DESIGN / DRAWN — 9-8-11 — JOB NUMBER 11-210

9-8-11 PERMIT SET

REVISIONS / SUBMISSIONS	
1 — 11-2-11 COORDINATION	AAF
2 — 11-16-11 BD COMM.	AAF

1151

BAMBOO GROUP INC.
550 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA

ELECTRICAL PANELS

Lic. # AR0012578

ARCHITECTURE INTERIOR DESIGN PLANNING
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DRAWN BY:	MD,JG
CHECKED BY:	JG
DATE:	09-08-11

E-400

P:\PROJECTS\2011\KOBI KARP\11-210 Paris Theater\Panl_E400.dwg, E-400, 11/18/2011 5:11:36 PM, by, 1:1

November 14, 2011

Re: Available Fault Current for 550 Washington Ave

Dear Tony Franyie:

Thank you for contacting FPL about the available fault current at 550 Washington Ave. Based on the plans you have provided dated NONE RECEIVED, the maximum available fault current at the transformer secondary terminals is estimated to be 61,315 symmetrical amperes at 120/208 volts. The protective device on the line side of the transformer currently in place or to be installed and serving your property located at the subject location is a 25 amp type "KS" fuse. The primary service voltage is 13.2kV L-L. This calculated symmetrical fault current is not intended for use as the basis for motor starting calculations and does not include:

- Consideration for any motor contribution or
- Fault current asymmetry.

The FPL equipment currently serving or planned to serve your facility may change over time as a result of any number of factors, including but not limited to transformer replacements due to load growth, electrical grid changes or emergencies. As a result, although we are providing you with this information for the sole purpose of assisting you in the completion of your study, you and your client should not design, install **or operate** your system in reliance upon any expectation that the specific size and type of equipment currently in place will remain so. If and when the size and type of the equipment changes, our employees are not always in a position to immediately notify customers.

As the construction project progresses, any questions or information you may need can be communicated through me. I have enclosed my business card for easy reference and look forward to hearing from you in the near future.

Sincerely,

Yeshuwa Mayers

Yeshuwa Mayers
Engineer II

LUMINAIRE SCHEDULE

Symbol	Label	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	A	DUAL-LITE CL100H50-SM MOUNTED 35' AFF	RECESSED EMERGENCY LUMINAIRE IN A SURFACE MOUNTED BOX PAINTED WHITE BY ELECTRICAL CONTRACTOR	Q50MR16/C/NSP15°-EXT	cl-1250.ies	750	0.95	0
	B	DUAL-LITE EV2-D-B WALL MOUNTED 7' AFF	TOW HEAD LED EMERGENCY LIGHT	(2) CREE LED	ev.ies	Absolute	0.95	2
	C	DUAL-LITE PG-P WALL MOUNTED 9' AFF THRU	INDOOR/OUTDOOR EMERGENCY WALL SCONCE	(4)LED STRIP @ 445+ LUMEN - CREE	pgnseries.ies	Absolute	0.95	17.7
	D	DUAL-LITE CL100H35 RECESSED MOUNTED 10' AFF	RECESSED EMERGENCY LUMINAIRE	Q35MR16/C/CG12°-FRB	cl-1235.ies	500	0.95	0
	E	DUAL-LITE PGN-P WALL MOUNTED 9' AFF THRU INVERTER SYSTEM	INDOOR/OUTDOOR EMERGENCY WALL SCONCE	(4)LED STRIP @ 445+ LUMEN - CREE	pgnseries.ies	Absolute	0.95	17.7

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min
2ND FLOOR P-O-E Z=0'	+	1.8 fc	6.7 fc	0.3 fc	22.3:1
GROUND FL P-O-E Z=0'	+	2.7 fc	15.5 fc	0.5 fc	31.0:1

Calculation of Fault Current
Fault SCA Source = TA Secondary
SCA Available = 55000
Length Units = Feet
Motor Load = None
Motor SCA = None
Motor SCA Treatment = Motor SCA Not Included
System Voltage = 208
System Phase = 3 Phase
Transformers

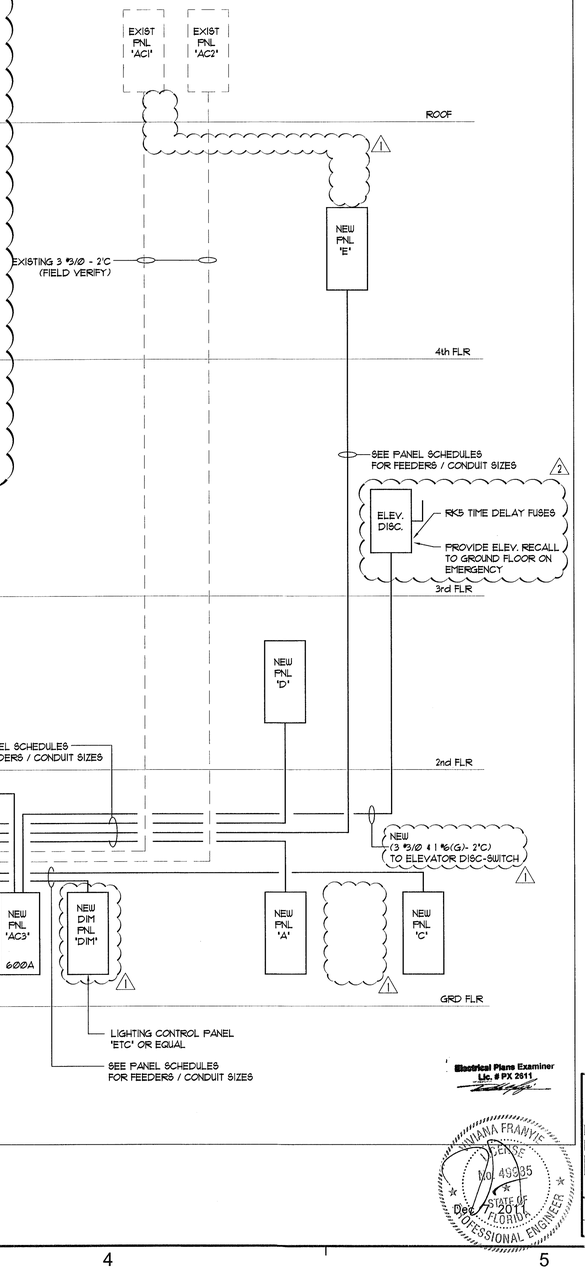
	Name	PH	Size	Pri.V	Sec.V	%Z	SCA,3PH
v	TX. VAULT	3-PH			208		55000

	Name	Cond	Cable	Size	Qty	Feet	SCA,3PH
S/F	FPL feeder to Meter/Main	None	CU	600	3	5	43,938

Main Feeders

	Name	Cond	Cable	Size	Qty	Feet	SCA,3PH
F1	Feeder to MDP	None	CU	600	3	5	41,281

File Name: C:\Program Files\EDR\User Data\5th & Jefferson.edr
Source: EDR, Electrical Designer's Reference
Software Version: 8.0 (Build 8). Based on the 2008 NEC®.



ELECTRICAL RISER DIAGRAM
NTS

LOAD ANALYSIS
BASED ON 120/208V, 3Φ

SERVICE GUTTER

NEW DIST PNL 'DP'	476. Ø A
NEW DIST PNL 'DPA'	410. Ø A
NEW PNL 'AC3'	435. Ø A
	1, 321 A.

Electrical Plans Examiner
Lic. # PX 2911

9-8-11
PERMIT SET

ANTONIO FRANYIE PE #11840 MDCH
VIVIANA FRANYIE PE #49935 FNE
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VIVIANA FRANYIE LICENSE No. 49935 STATE OF FLORIDA PROFESSIONAL ENGINEER
Dec 7 2011

DESIGN | DRAWN | 9-8-11
JOB NUMBER 11-210

ES PRINTED Dec 7 2011

REVISIONS / SUBMISSIONS

1	11-2-11 COORDINATION	AAF
2	11-16-11 BD COMM.	AAF
3	12-2-11 BD COMM.	AAF

1151

BAMBOO GROUP INC.
550 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA

ELECTRICAL RISER DIAGRAM

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Lic. # AR0012578

K • B I K A R P

DRAWN BY:	MD,JO
CHECKED BY:	JG
DATE:	09-08-11

E-401

GENERAL ELECTRICAL NOTES:

1.0 GENERAL
1.1 WORK INCLUDED UNDER THIS DIVISION CONSISTS OF PROVIDING LABOR MATERIALS, APPLIANCES, EQUIPMENT, TOOLS, TRANSPORTATION, SUPERINTENDENCE AND SERVICES REQUIRED TO CONSTRUCT AND INSTALL COMPLETE AND PROPER OPERATING ELECTRICAL SYSTEMS AS SPECIFIED, INDICATED, AND ELSEWHERE REQUIRED.
1.2 ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 2005 (NEC), FLORIDA BUILDING CODE 2004(FBC) AND ALL OTHER APPLICABLE CODES IN THEIR LATEST EDITION.

2.0 EXAMINATION OF SITE
2.1 BIDDER IS ADVISED TO VISIT THE SITE AND ACQUAINT HIMSELF WITH WORKING CONDITIONS. CONTRACTOR SHALL ACCEPT CONDITIONS AS THEY EXIST ON BID DATE.

3.0 MATERIALS
3.1 MATERIALS, EQUIPMENT AND APPLIANCES SHALL BE NEW AND OF BEST QUALITY UNLESS OTHERWISE INDICATED.
3.2 DETERMINE THAT PROPOSED EQUIPMENT CAN BE INSTALLED IN SPACE AVAILABLE. INSTALL EQUIPMENT SO PARTS ARE READILY ACCESSIBLE FOR INSPECTION AND MAINTENANCE. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR DISMANTLING EQUIPMENT TO OBTAIN ENTRANCE INTO BUILDING.
3.3 MATERIALS SHALL BEAR UNDERWRITER'S LABEL WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED AND LISTED BY UNDERWRITER'S LABORATORIES, INC.
3.4 MATERIALS, EQUIPMENT AND APPLIANCES SHALL CONFORM TO LATEST STANDARDS OF: AMOA, ANSI, ASTM, NEMA, ARI & NFPA.
3.5 USE EXTREME CARE IN SELECTION AND INSTALLATION OF EQUIPMENT TO INSURE THAT NOISE AND VIBRATION ARE HELD TO ABSOLUTE MINIMUM. CORRECT OBJECTIONABLE NOISE AND VIBRATION. PROVIDE ELIMINATORS REQUIRED FOR PROPER RESULTS.

4.0 PERMITS, FEES AND CODES
4.1 COST FOR FEES, PERMITS, TESTS AND INSPECTIONS SHALL BE PAID FOR BY THIS CONTRACTOR.
4.2 INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS INCLUDING: F.B.C. 2004, N.E.C. 2005, N.F.P.A., O.S.H.A. AND STATE, COUNTY AND CITY DEPARTMENTS OF HEALTH.

5.0 COOPERATE WITH OTHER TRADES
5.1 MAKE KNOWN ARRANGEMENT OF WORK AND CHECK ARRANGEMENT AND LOCATION OF OTHER TRADES TO AVOID CONFLICTS. EXAMINE DRAWINGS OF OTHER TRADES TO DETERMINE EXACT EQUIPMENT LOCATIONS FOR ROUGH IN.
5.2 PROVIDE (FURNISH & INSTALL) POWER SUPPLY WIRING AND CONDUIT TO ALL TEMPERATURE CONTROL SYSTEMS, THERMOSTATS AND VAV TERMINALS ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LOCATIONS AND REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.

6.0 OPERATING INSTRUCTIONS
6.1 CONTRACTOR SHALL PROVIDE TO OWNER OPERATION AND MAINTENANCE MANUALS. CONTRACTOR SHALL INSTRUCT OWNER OR OWNER'S REPRESENTATIVE IN OPERATION OF ALL EQUIPMENT. TYPE WRITTEN LABELS SHALL BE PLACED IN PANEL BOXES DESIGNATING CIRCUIT LAYOUTS.

7.0 INSPECTION
7.1 NOTIFY OWNER TWENTY-FOUR HOURS IN ADVANCE WHEN PIPING OR EQUIPMENT IS TO BE TESTED, BEFORE PIPING IS INSULATED OR CONCEALED, AND BEFORE TRENCHES ARE BACKFILLED.
7.2 FAILING TO COMPLY WITH THE ABOVE, CONTRACTOR SHALL UNCOVER AND RETEST LINES, REPAIRING DAMAGE TO OTHER CONTRACTOR'S WORK, AS WELL AS HIS OWN.
7.3 BEFORE REQUESTING FINAL PAYMENT, INSPECT INSTALLATION TO ASSURE THAT WORK IS COMPLETE AND REQUIREMENTS OF CONTRACT HAVE BEEN FULFILLED.

8.0 CUTTING AND PATCHING
8.1 UNLESS OTHERWISE INDICATED, DO NO MORE CUTTING AND PATCHING THAN REQUIRED FOR INSTALLATION OF WORK.
8.2 CUTTING OF STRUCTURAL MEMBERS OR EXPOSED SURFACE OF CONCRETE BLOCK WILL NOT BE PERMITTED.

9.0 MATERIALS AND EQUIPMENT
9.1 CONDUCTORS: CONDUCTORS SHALL BE THWN COPPER AS NOTED ON DRAWINGS. CONDUIT SHALL BE PVC SCH-40 UNDER SLAB & EMT ABOVE SLAB. PROVIDE FLEXIBLE CONDUIT AS REQUIRED. SEE SPECIFICS IN 13.0 NOTES.
9.2 DUPLEX RECEPTACLES AND SWITCHES SHALL BE SPECIFICATION GRADE EQUAL TO HUBBELL 5252 AND 1201. PROVIDE ALL RECEPTACLE COVER PLATES WITH MACHINE MADE LABELS INDICATING PANEL BOARD & BRANCH CIRCUIT SERVING THE OUTLET.
COLOR AND STYLE TO BE SUBMITTED.
9.3 COMPUTER OUTLETS: SHALL BE AS IDENTIFIED AS SUCH FOR IDENTIFICATION .
9.4 PANELBOARDS:
A. GENERAL: INTERRUPTING CAPACITY RATINGS SHALL BE VERIFIED AND BASED ON THE AVAILABLE SYMMETRICAL FAULT CURRENT GIVEN BY THE POWER COMPANY UPON LOCATION & INSTALLATION OF TRANSFORMER.
B. DIRECTORY: COMPLETE AT END OF JOB, TYPEWRITTEN.
C. FINISH: ANSI #61 ENAMEL OVER A RUST INHIBITING TREATMENT AFTER FABRICATION AND BEFORE ASSEMBLY. AFTER INSTALLATION, AND BEFORE ACCEPTANCE BY OWNER, ASSEMBLY SHALL BE PAINTED WITH A RUST INHIBITING PAINT (COLOR SELECTED BY ARCHITECT).
D. NAMEPLATES: PROVIDE A LAMACOID NAMEPLATE WITH 5/16" LETTERS ENGRAVED ON FRONT FACE SHOWING PANEL NAME, VOLTAGE AND PANEL RATING. COORDINATE TO GIVE SAME NAME AS SHOWN ON PANELBOARD SCHEDULE.
E. MANUFACTURERS: SIEMENS, SQUARE D, GENERAL ELECTRIC, OR EQUAL .

9.5 FIXTURES:
A. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING FIXTURES AS SPECIFIED ON DRAWINGS WITH NO SUBSTITUTIONS OR CHANGES. ALL LIGHTING LEVELS HAVE BEEN CALCULATED AND SHALL NOT BE CHANGED
9.6 LAMPS: ALL LAMPS USED ON THIS PROJECT SHALL BE NEW, DELIVERED TO THE JOB SITE IN THE ORIGINAL PACKING CASES AND SLEEVES AND SHALL BE OF THE SAME MANUFACTURER UNLESS OTHERWISE SPECIFIED.
9.7 BALLASTS: ALL BALLASTS SHALL BE RATED TO OPERATE AT THE SERVICE VOLTAGE AS SHOWN AND AS SPECIFIED, PLUS OR MINUS THE DEVIATIONS WITH THE ELECTRIC SERVICE COMPANY IS ALLOWED BY FRANCHISE.

10.0 FUSES
10.1 PART 1: GENERAL
A. SUPPLY AND INSTALL ALL FUSES IN EACH FUSED DEVICE PER EQUIPMENT NAMEPLATES.
B. ALL AIR CONDITIONING, ELEVATORS, MOTORS, KITCHEN EQUIPMENT, ETC. SHALL BE FUSED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
C. INSTALL LABELS IN ALL FUSED DEVICES INDICATING PROPER SIZE FUSE TO USE.

11.0 MISCELLANEOUS
11.1 ALL EMPTY CONDUIT TO BE SUPPLIED WITH NYLON PULL WIRE.
11.2 ALL FLEX CONDUIT SHALL HAVE "TITE-BITE" CONNECTORS.
11.3 ELECTRICAL CONTRACTOR TO INSTALL AND WIRE OUTLETS IN FIXTURES WHERE SHOWN ON DRAWINGS - OUTLETS TO BE INSTALLED IN FIXTURES AFTER FIXTURE INSTALLATION.
11.4 ALL OUTLETS SHALL BE LABELED WITH CIRCUIT NUMBER.
11.5 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING THE TELEPHONE COMPANY POINT OF CONNECTION/ DEMARC/ ROUTING OF CONDUIT SERVICE ENTRANCE REQUIREMENTS FOR INSTALLATION OF SERVICE AND ADVISE THE OWNER AND/OR THE ENGINEER OF ANY ADDITIONAL REQUIREMENTS THAT MAY BE NECESSARY.
11.6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING THE POWER (FPL) COMPANY'S REQUIREMENTS AND SERVICE ENTRANCE FOR THE BUILDING TO MAIN ELECTRICAL ROOM. SEE E-1 DRAWING.
11.7 PROVIDE, FURNISH AND INSTALL ALL EQUIPMENT WITH MINIMUM REQUIREMENTS AND SPECIFICATIONS TO MATCH PROJECT SPECIFICATIONS PER CONTRACT.
11.8 PROVIDE (FURNISH & INSTALL) POWER SUPPLY WIRING SOURCE TO POWER CONNECTION, INCLUDE STARTERS, DISCONNECTS & REQUIRED ELECT. DEVICES, INTERLOCK WIRING, RACEWAY, CONDUITS, PULL WIRES TO MECH. SYSTEMS INCLUDING HVAC CONTROL . COORD. W/ MECH. CONTRACTOR.
11.9 PROVIDE (FURNISH & INSTALL) POLARIS TAPS AND ENCLOSURES AS NEEDED TO COMPLETE THE JOB WITH THE INCREASED WIRE SIZES AS CALLED OUT IN THE DRAWING FOR VOLTAGE DROP CONSIDERATIONS.

12.0 VOICE/DATA CABLING & TELEPHONE SYSTEM NOTES:
THIS SCOPE OF WORK IS TO BE CONTRACTED BY OWNER DIRECTLY UNLESS REQUESTED OTHERWISE. ALTERNATE BID PRICE FOR GENERAL CONTRACTOR / ELECTRICAL CONTRACTOR TO INCLUDE IN SCOPE SHALL BE PROVIDED TO THE OWNER FOR EVALUATION WITH QUALIFICATIONS AND SCOPE DESCRIBED.
12.1 VOICE STATION CABLE SHALL BE AS COORDINATED WTIH VENDOR AND OWNER.
12.2 DATA STATION CABLE SHALL BE AS COORDINATED WITH VENDOR AND OWNER
12.3 STATION CABLE SHALL BE ROUTED IN CEILINGS FROM CONDUIT CEILING STUBS. CABLES SHALL BE A MINIMUM OF 6" FROM POWER CONDUITS AND INDIVIDUALLY SUPPORTED AND SHALL NOT BE SUPPORTED BY OR LAY UPON CONDUIT, LIGHT FIXTURES, PIPNG, CEILING GRID OR DUCTWORK.
12.4 CABLE INSTALLATION SHALL BE INSTALLED AND CERTIFIED BY QUALIFIED COMMUNICATIONS INSTALLER
12.5 STATION CABLE QUANTITIES AND JACK OUTLET QUANTITIES SHALL BE VERIFIED WITH THE OWNER PRIOR TO INSTALLATION.

13.0 CONDUITS
ALL POWER, CONTROL & SIGNAL WIRING SHALL BE DONE AS FOLLOWS:
A. RMC- (RIGID METAL CONDUIT) INSIDE WAREHOUSE AREAS TO 10' A.F.F. ON INTERIOR WAREHOUSE WALLS.
B. IMC - (INTERMEDIATE METAL CONDUIT) AT ROOF AREAS & EXPOSED OUTDOORS.
C. ENT - (ELECTRIC NONMETALLIC TUBING) AT TRANSITIONS TO RMC AT UNDERGROUND AND IN SLAB WITH TRANSITIONS BEFORE PENETRATING SLAB INTO ROOM.
D. EMT - (ELECTRIC METAL TUBING) - INSIDE ELECT. ROOMS, MECH. ROOMS, TEL. & DATA ROOMS.
E. MIN. CONDUIT SIZE TO BE USED IS 1/2"C.

14.0 SECURITY SYSTEM NOTES:
THIS SCOPE OF WORK IS TO BE CONTRACTED BY OWNER DIRECTLY UNLESS REQUESTED OTHERWISE. ALTERNATE BID PRICE FOR GENERAL CONTRACTOR / ELECTRICAL CONTRACTOR TO INCLUDE IN SCOPE SHALL BE PROVIDED IF REQUESTED BY OWNER BASED ON SCOPE AND REQUIREMENTS OUTLINED WITH THEIR VENDORS.

15.0 FIRE ALARM SYSTEM NOTES:
THIS SCOPE OF WORK IS TO BE PROVIDED IN ITS ENTIRETY BY CONTRACTOR'S BID AS SPECIFIED AND INDICATED ON THE FA DRAWINGS INCLUDED HEREIN IN THE SET.

17.0 LIGHTNING PREVENTOR SYSTEM NOTES: (ADD ALTERNATE OPTION)
THIS SCOPE OF WORK IS TO BE PROVIDED AS AN ALTERNATE OPTION BID PRICE, DESIGN BUILD FOR A LIGHTNING PREVENTOR SYSTEM WITH THE REQUIRED EQUIPMENT FOR PROPER COVERAGE OF THE BUILDING'S OUTLINE.

ELECTRICAL SYMBOL LEGEND

LIGHTING
- RECESSED MOUNTED FLUORESCENT LIGHT FIXTURE
- RECESSED MOUNTED FLUORESCENT LIGHT FIXTURE W/ EMERG. BATTERY BALLAST.
- SURFACE MOUNTED FLUORESCENT STRIP OR INDUSTRIAL LIGHT FIXTURE
- SURFACE MOUNTED FLUORESCENT EMERGENCY BALLAST STRIP OR INDUSTRIAL LIGHT FIXTURE
- WALL MOUNTED FLUORESCENT LIGHT FIXTURE 7'-4" A.F.F. (6" ABOVE DOOR FRAME OR MIRRORS), U.O.N.
- TRACKLIGHTING
- SHADED HID FIXTURE DESIGNATES FIXTURE WITH QUARTS RESTRIKE.
- TWIN H.I.D.
- EMERGENCY TWIN H.I.D.
- CEILING OR WALL MOUNTED INCANDESCENT, COMPACT FLUORESCENT OR H.I.D. LIGHT FIXTURE
- CEILING OR WALL MOUNTED INCANDESCENT, COMPACT FLUORESCENT OR H.I.D. LIGHT FIXTURE WITH EMERGENCY BATTERY BALLAST (WHERE APPLIC.)
- CEILING OR WALL SURFACE MOUNTED EXIT LIGHT FIXTURE. WALL MOUNTED 7'-4" A.F.F. (6" ABOVE DOOR FRAME OR MIRRORS), U.O.N. DARKENED SECTION DENOTES FACE.
- (A) LIGHT FIXTURE TYPE DESIGNATION AS PER LETTER INDICATED. REFER TO SCHEDULE.
- S_A SINGLE POLE SWITCH, LETTER DENOTES LIGHTS SWITCHED
- S_2 TWO POLE SWITCH, LETTER DENOTES LIGHTS SWITCHED
- S_3 THREE WAY SWITCH, LETTER DENOTES LIGHTS SWITCHED
- S_4 FOUR WAY SWITCH, LETTER DENOTES LIGHTS SWITCHED
- S_D DIMMER SWITCH, LETTER DENOTES LIGHTS SWITCHED
- S_{OS} WALL SWITCH OCCUPANCY SENSOR.
- S_M MOMENTARY CONTACT SWITCH.

POWER COMMUNICATION
- SINGLE WALL RECEPTACLE, NEMA 5-20R, 18" AFF U.O.N. (SUBSCRIPT "TL" INDICATES TWITS - LOCK, NEMA_____)
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 18" AFF U.O.N.
- UPS DUPLEX WALL RECEPTACLE, NEMA 5-20R, 18" AFF U.O.N. PROVIDE RED RECEPTACLE AND RED RECEPTACLE PLATE ENGRAVED/LABELED UPS IN WHITE LETTERS.
- TV DUPLEX WALL RECEPTACLE, NEMA 5-20R, 78" AFF U.O.N.
- QUADRUPLEX WALL RECEPTACLE, NEMA 5-20R, 18" AFF U.O.N.
- DUPLEX FLOOR RECEPTACLE, NEMA 5-20R, FLUSH.
- RECESSED DUPLEX WALL RECEPTACLE, NEMA 5-20R, MOUNTED HORIZONTALLY 6" ABOVE COUNTER TOP. IN BATH ROOM 48" A.F.F.
- RECESSED DUPLEX WALL RECEPTACLE, NEMA 5-20R, UPPER HALF SWITCHED 18" AFF U.O.N.
- G.F.I. DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER NEMA 5-20R
- SPECIAL RECEPTACLE, 18" AFF U.O.N. SEE PLANS FOR SPECS AND RATING.
- CLOCK CLOCK OUTLET MOUNTED 84" A.F.F. AND/OR CENTERED OVER DOOR
- TV TV WALL OUTLET, 78" AFF U.O.N.
- FLR WALL OR FLOOR MOUNTED VOICE SINGLE OUTLET, 18" A.F.F. ON WALL U.O.N. SINGLE GANG. BOX W/ 1" C FROM BOX INTO CEILING SPACE AND TO CABLE TRAY (TYP.) PROVIDE "J" HOOKS OR BRIDAL RINGS WHERE APPLICABLE.
- FLR WALL OR FLOOR MOUNTED DATA SINGLE OUTLET, 18" A.F.F. ON WALL U.O.N. SINGLE GANG. BOX W/ 1" C FROM BOX INTO CEILING SPACE AND TO CABLE TRAY (TYP.) PROVIDE "J" HOOKS OR BRIDAL RINGS WHERE APPLICABLE.
- FLR COMBINATION WALL OR FLOOR MOUNTED TELEPHONE/DATA DUAL OUTLET, 18" A.F.F. ON WALL U.O.N. SINGLE GANG. BOX W/ 1" C FROM BOX INTO CEILING SPACE AND TO CABLE TRAY (TYP.) PROVIDE "J" HOOKS OR BRIDAL RINGS WHERE APPLICABLE.
- COMBINATION WALL MOUNTED TELEPHONE/DATA (3 OUTLET) 18" A.F.F. ON WALL OR PART OF FURNITURE SYSTEM AS INDICATED ON DRAWINGS.
- (J) JUNCTION BOX (C = CEILING MOUNTED)
- FLR (J) JUNCTION BOX FLOOR MOUNTED W/ CONDUIT TO NEAREST WALL/COL.

POWER DISTRIBUTION
- INDIVIDUALLY MOUNTED DISCONNECT SWITCH/SIZE/# POLES/ FUSE SIZE(*)/ENCLOSURE (*) PER MANUFACTURER RECOMMENDATION
- TELEPHONE BACKBOARD 4'Wx8'Hx[" D PLYWOOD BACKBOARD PAINTED WITH FIRE RETARDANT BLACK-PAINT.
- PANEL BOARD
- DISTRIBUTION PANEL OR EQUIPMENT, DOUBLE LINE DESIGNATES FRONT.
- JUNCTION BOX, WALL MOUNTED P - POWER, T - TELEPHONE, D - DATA
- JUNCTION BOX, FLOOR MOUNTED P - POWER, T - TELEPHONE, D - DATA
- KWH DEMAND METER OR T.U.V. METER AS NOTED ON DRAWINGS.
- R RELAY
- UNDER FLOOR DUCT
- (S) SPEAKER, CEILING MOUNTED
- BRANCH CIRCUIT OR FEEDER RUN; CONCEALED IN CEILING OR WALL
- UNDERGROUND OR UNDERSLAB BRANCH CIRCUIT OR FEEDER RUN (WHERE APPLICABLE).
- BRANCH CIRCUIT HOME RUN - LONG HASH MARK DENOTES. NEUTRAL WIRE, SHORT HASH MARK DENOTES PHASE WIRE NOTE: NO MARKS DENOTES 3 WIRES (PHASE, NEUTRAL, GRUOND) GROUND WIRE HASH NOT SHOWN, PROVIDE ALWAYS. METAL CONDUIT IS NOT AN ACCEPTABLE GROUND.
- FLEXIBLE CONDUIT
- EXPLOSION PROOF SEAL
- CONDUIT RUN UP
- CONDUIT RUN UP

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
CB	CIRCUIT BREAKER
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPTER RATED
IG	ISOLATED GROUND
JB	JUNCTION BOX
PNL	PANELBOARD
SW	SWITCH
TX	TRANSFORMER
WP	WEATHER PROOF

MISCELANEOUS
- CR CARD READER SEE DETAIL FOR PROVISIONS TO BE COORDINATED W/ SECURITY VENDOR
- (O) MOTION OR OCCUPANCY SENSOR FOR LIGHTING CONTROL.
- AISLE MOTION SENSOR FOR LIGHTING CONTROL IN WAREHOUSE MTD. AT 35FT AFF
- CONTROL MODULE FOR LIGHTING CONTROL IN WAREHOUSE
- LC LIGHTING CONTACTOR.
- TC TIME CLOCK W/ BATTERY BACKUP PER ENERGY CODE.
- (P) PHOTOCELL.

THESE PLANS ARE FOR BUILDING DEPARTMENT REVIEW. THEY ARE NOT TO BE CONSTRUED AS FINAL CONSTRUCTION DOCUMENTS UNTIL ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED AND COMMENTS INCORPORATED INTO THESE DWGS. DUE TO THE VARIATIONS IN INTERPRETATIONS OF THE CODE THAT OCCUR IN DIFFERENT MUNICIPALITIES FINAL APPROVAL AND REVIEW IS NEEDED TO ASSURE COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

Electrical Plans Examiner

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NOTES & LEGEND

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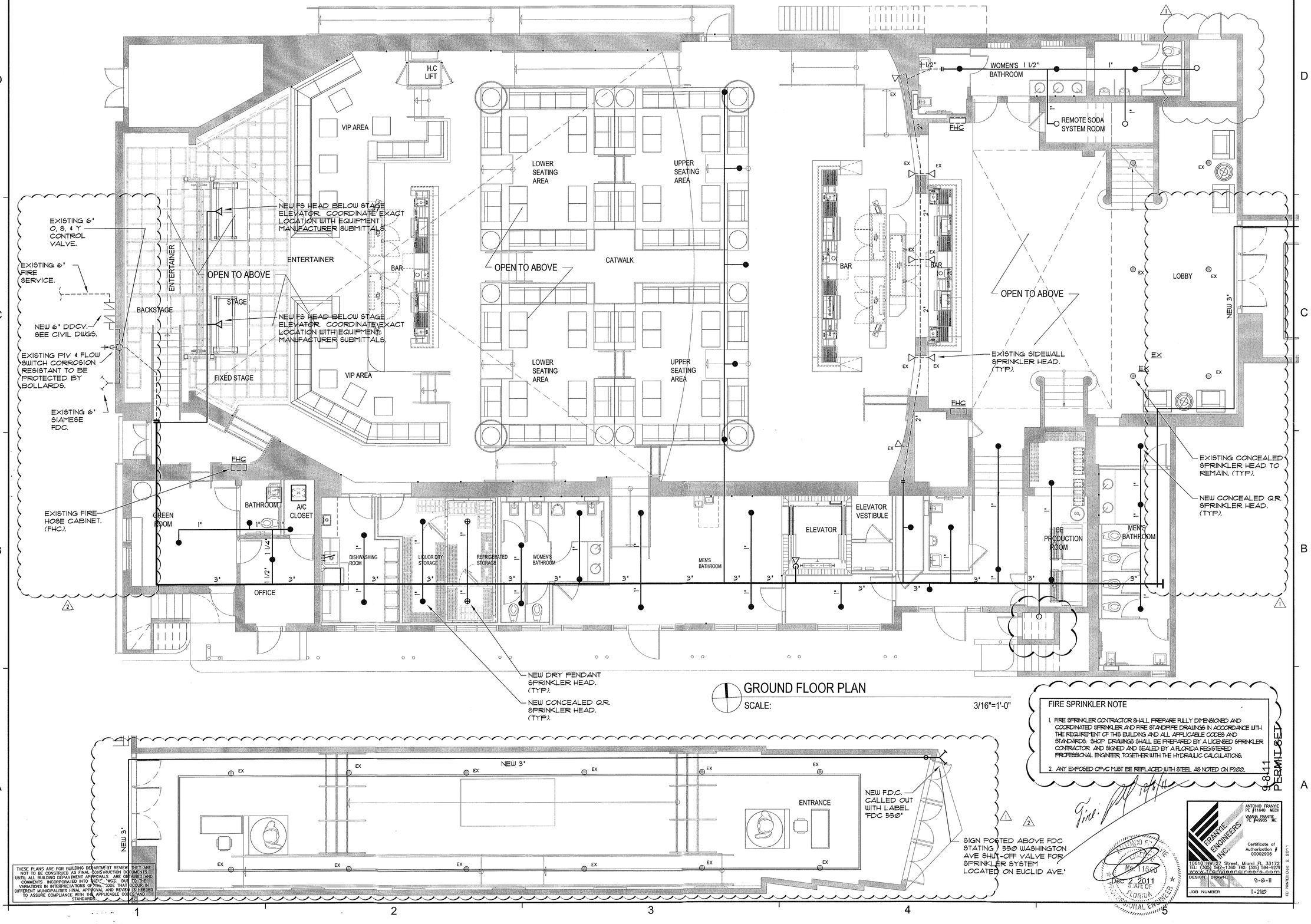

GROUND FLOOR PLAN

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

FIRE SPRINKLER NOTE

1. FIRE SPRINKLER CONTRACTOR SHALL PREPARE FULLY DIMENSIONED AND COORDINATED SPRINKLER AND FIRE STANDPIPE DRAWINGS IN ACCORDANCE WITH THE REQUIREMENT OF THIS BUILDING AND ALL APPLICABLE CODES AND STANDARDS. SHOP DRAWINGS SHALL BE PREPARED BY A LICENSED SPRINKLER CONTRACTOR AND SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER, TOGETHER WITH THE HYDRAULIC CALCULATIONS.
2. ANY EXPOSED CPVC MUST BE REPLACED WITH STEEL AS NOTED ON FS100.

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GROUND FLOOR PLAN

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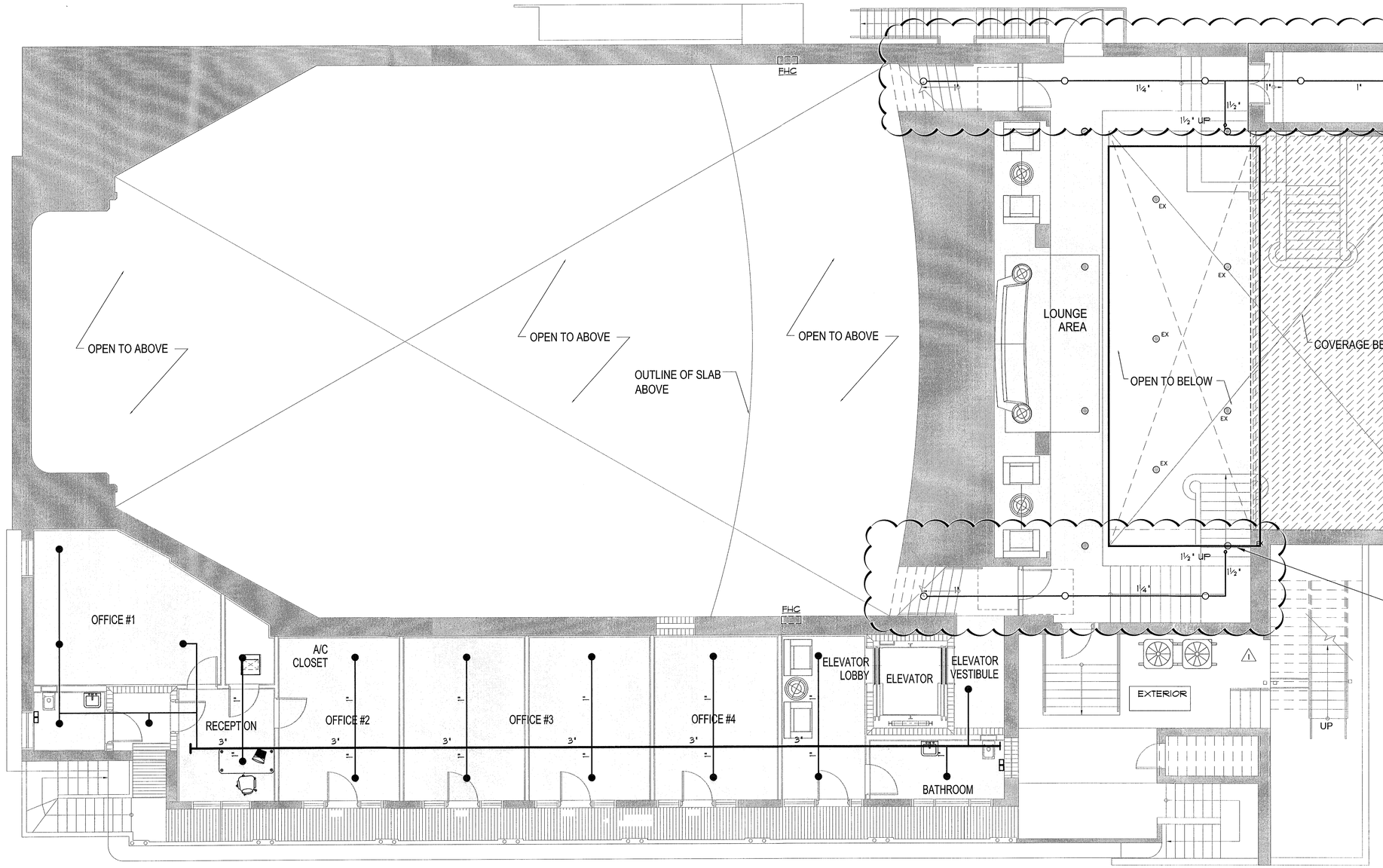

SECOND FLOOR PLAN

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

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Nov 3 2011

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SECOND FLOOR PLAN

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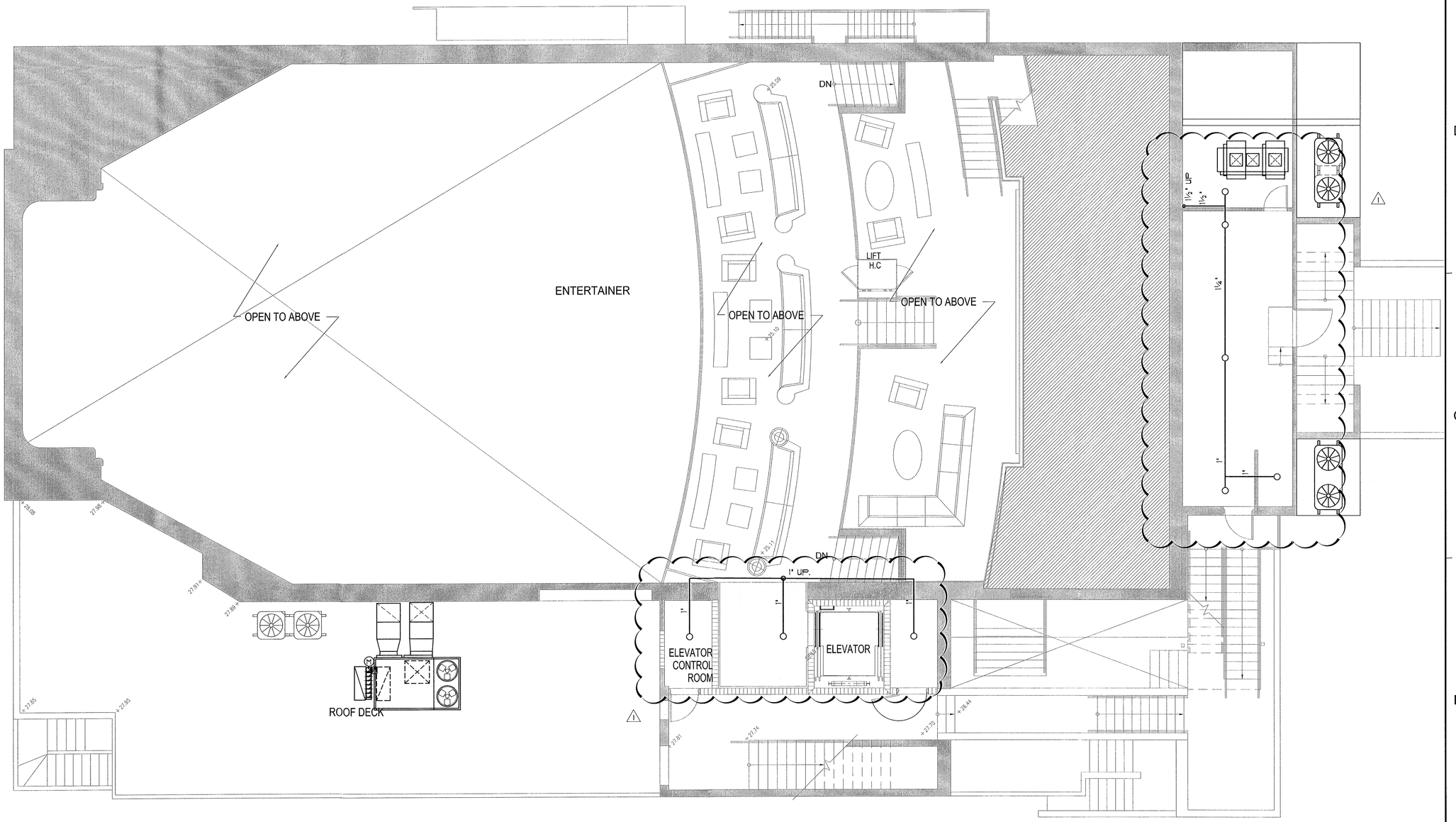

THIRD FLOOR PLAN

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

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THIRD FLOOR PLAN

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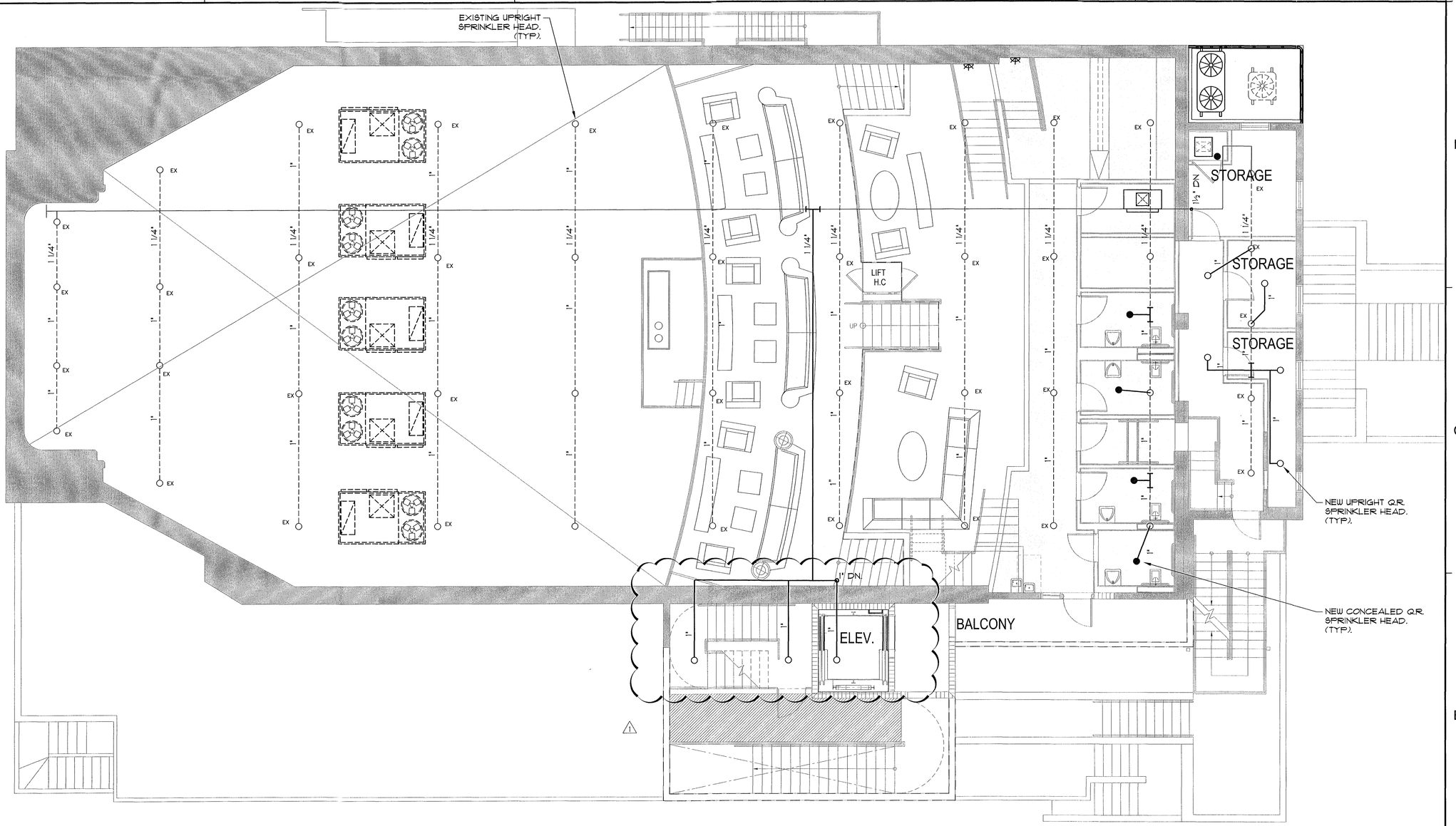

FOURTH FLOOR PLAN

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

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FOURTH FLOOR PLAN

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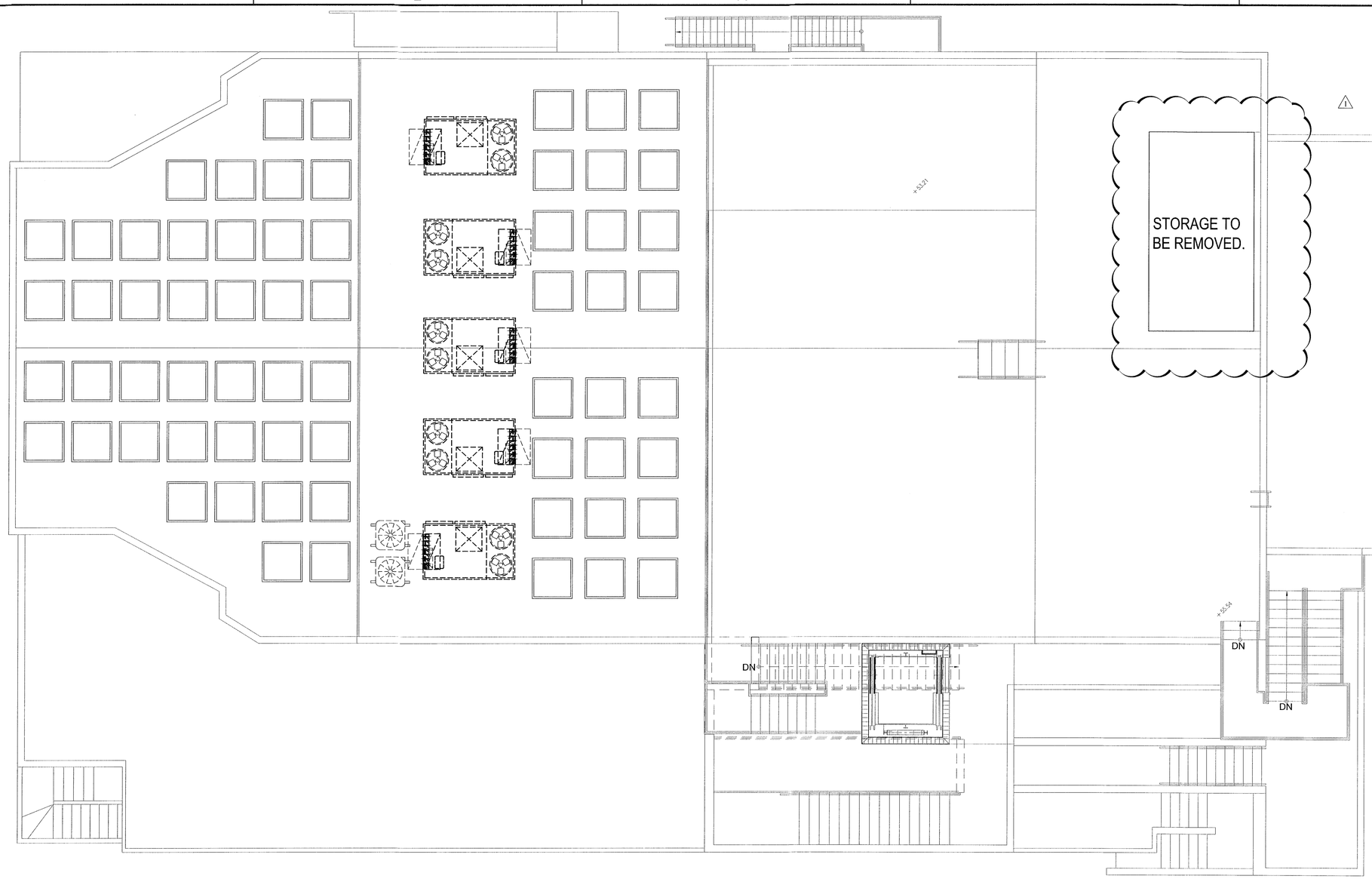

ROOF PLAN

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

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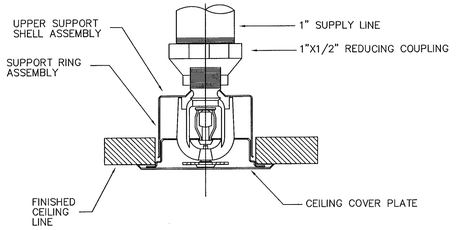
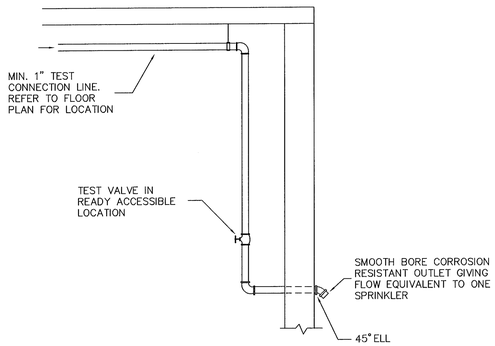


CONCEALED TYPE SPRINKLER HEAD MOUNTING DETAIL

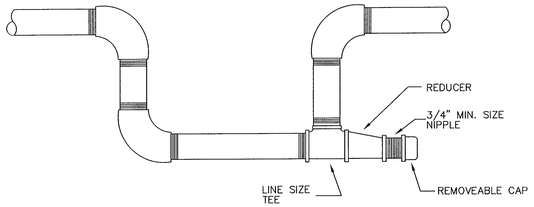
N.T.S.



SYSTEM TEST CONNECTION DETAIL

N.T.S.

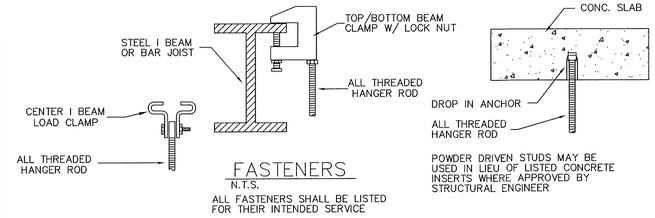
NOTE:
PROVIDE TEST CONNECTION AT THE END OF EACH 3" FIRE MAIN.



TRAPPED WATER VOLUME >5 GAL. < 50 GAL.: 3/4" MIN DRAIN VALVE REQ'D.
TRAPPED WATER VOLUME >50 GAL.: 1" MIN. DRAIN VALVE PIPED TO AN ACCESSIBLE LOCATION REQ'D.

AUXILIARY DRAIN DETAIL

N.T.S.

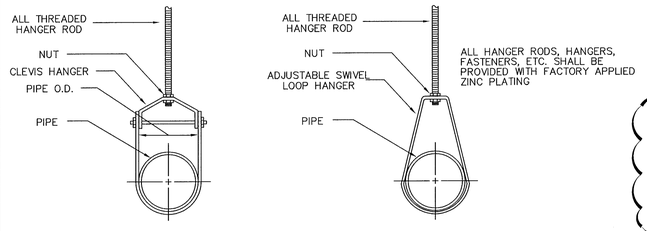


FASTENERS

N.T.S.

ALL FASTENERS SHALL BE LISTED FOR THEIR INTENDED SERVICE

POWDER DRIVEN STUDS MAY BE USED IN LIEU OF LISTED CONCRETE INSERTS WHERE APPROVED BY STRUCTURAL ENGINEER



PIPE HANGERS

N.T.S.

ALL HANGERS SHALL BE LISTED FOR THEIR INTENDED SERVICE

SPRINKLER HEAD SCHEDULE

SYMBOL	AREA SERVED	MFR. & MODEL NO.	ORIFICE SIZE	CONFIGURATION	TEMP. RATING	FINISH
○	AREAS WITH EXPOSED STRUCTURE	CENTRAL MODEL TY-FRB	1/2" K=5.6	UPRIGHT (SS) QUICK RESPONSE	ORDINARY	AS SPECIFIED BY ARCHITECT
●	AREAS WITH CEILINGS	CENTRAL MODEL RFII	1/2" K=5.6	CONCEALED (SS) QUICK RESPONSE	ORDINARY	AS SPECIFIED BY ARCHITECT

GENERAL NOTES

1. ALL PIPING, HANGERS, SUPPORT METHODS AND SPRINKLER HEADS TO BE INSTALLED IN STRICT ACCORDANCE WITH N.F.P.A. 13, AND ALL LOCAL CODES AND ORDINANCES.
2. SPARE SPRINKLER HEADS AND WRENCHES SHALL BE PROVIDED IN ACCORDANCE WITH N.F.P.A. 13.
3. ALL RATED WALLS AND FLOORS TO BE PROPERLY SLEEVED AND SEALED WITH APPROVED FIRE/SMOKE STOP MATERIAL.
4. HYDRAULIC DATA PLACE CARD TO BE PLACED ON SYSTEM RISER.
5. ALL SPRINKLER HEADS IN ELEVATOR MACHINE ROOMS, ELECTRICAL ROOMS AND MECHANICAL ROOMS SHALL BE PROVIDED WITH HEAD GUARDS.
6. PROVIDE INSPECTOR'S TEST CONNECTION AND DRAIN AS PER N.F.P.A. 13
7. TEMPERATURE CLASSIFICATION FOR ALL SPRINKLER HEADS SHALL BE ORDINARY UNLESS NOTED OTHERWISE. REQUIREMENTS.
8. DESIGN CRITERIA:
   FOOD PREP AREAS:
   DESIGN CRITERIA SHALL BE BASED ON N.F.P.A. 13, ORDINARY HAZARD, GROUP 2, .20GPM PER SQ. FT., 120 SQ. FT. MAX COVERAGE PER HEAD, 1500 SQ. FT. REMOTE AREA, 250 GPM HOSE ALLOWANCE.
   DINING AREAS:
   DESIGN CRITERIA SHALL BE BASED ON N.F.P.A. 13, LIGHT HAZARD, .10GPM PER SQ. FT., 225 SQ. FT. MAX COVERAGE PER HEAD, 900 SQ. FT. REMOTE AREA, 100 GPM HOSE ALLOWANCE.
9. ALL VALVES CONTROLLING WATER SUPPLY SHALL BE PROVIDED WITH A SUPERVISORY (TAMPER) SWITCH. COORDINATE LOCATION OF ALL FLOW AND TAMPER SWITCHES WITH ELECTRICAL CONTRACTOR.
10. ALL PIPING ABOVE GROUND SHALL BE LIGHTWALL THREADABLE STEEL PIPE FOR 2" AND SMALLER, ROLL AND GROOVED SCHEDULE 10 STEEL PIPE FOR PIPING 2 1/2" AND LARGER. ALLIED XL AND ALLIED SCH. 10 OR APPROVED EQUAL.

    FITTINGS FOR PIPING 2" AND SMALLER SHALL BE MALLEABLE IRON, 150 PSI BANDED,THREADED,BLACK.ANSI B 16.3.

    FITTINGS FOR PIPING 2 1/2" AND LARGER SHALL BE MECHANICAL COUPLING SYSTEM AS MANUFACTURED BY VICTAULIC CORP.OR GRINNELL CORP. "GRUVLOCK".

    ALL FITTINGS SHALL BE FROM SAME MANUFACTURER.
11. PRESSURE TEST AND FLUSH THE SYSTEM IN ACCORDANCE WITH N.F.P.A. 13 REQUIREMENTS. SUBMIT N.F.P.A. 13 FORMS 85A AND 85B.
12. PROVIDE AUXILIARY DRAIN CONNECTION FOR ALL TRAPPED PIPING SECTIONS IN ACCORDANCE WITH N.F.P.A. 13.PROVIDE FLUSHING CONNECTIONS AS REQUIRED. REMOVABLE FITTINGS SHALL BE PROVIDED AT END OF CROSSMAINS.
13. ALL FIRE PROTECTION EQUIPMENT AND DEVICES SHALL BE U.L. LISTED AND FACTORY MUTUAL (FM) APPROVED.
14. GATE VALVES 2" AND SMALLER SHALL BE O.S.&Y. THREADED BRONZE, RISING STEM,WEDGE DISC,175 WWP.GATE VALVES 2 1/2" AND LARGER SHALL BE O.S.&Y. FLANGED IBBM RISING STEM,SOLID WEDGE DISC,175 WWP.ALL GATE VALVES SHALL BE U.L. LISTED AND F.M. APPROVED. BUTTERFLY VALVES WITH OR WITHOUT INTEGRAL SUPERVISORY SWITCH MAY BE USED WHERE PERMITTED BY N.F.P.A. 13.
15. CHECK VALVES 2 1/2" AND LARGER SHALL BE FLANGED IBBM SWING TYPE,BRONZE MOUNTED,175 WWP CLASS,U.L. LISTED AND F.M. APPROVED. RISER CHECK VALVES SHALL BE VIKING MODEL "EASY RISER" WITH FULL TRIM OR APPROVED EQUAL.
16. SUPERVISORY SWITCHES SHALL BE 120 VOLT CLOSED CIRCUIT TAMPER SWITCH, U.L. LISTED AND F.M. APPROVED.FLOW SWITCHES SHALL BE PADDLE TYPE,SINGLE POLE DOUBLE THROW WITH ADJUSTMENT FOR SENSITIVITY TO FLOW WITH TIME DELAY ,U.L. LISTED AND F.M. APPROVED.
17. HOSE THREADS AT FIRE DEPARTMENT CONNECTIONS SHALL CONFORM WITH LOCAL FIRE DEPARTMENT STANDARDS.
18. THE WORK THAT IS TO BE DONE UNDER THIS CONTRACT INCLUDES THE FURNISHING OF ALL LABOR,MATERIALS AND EQUIPMENT , PERMITS, FEES, INSPECTIONS, TESTS, INSURANCE, ETC. REQUIRED FOR THE COMPLETION OF FIRE PROTECTION SYSTEM SHOWN ON THE DRAWINGS AND LISTED HEREIN.
19. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC.THEY DO NOT SHOW EVERY BEND,OFFSET OR OTHER FITTINGS WHICH MAY BE REQUIRED FOR THE INSTALLATION IN THE SPACE ALLOCATED, OR FOR COORDINATION WITH OTHER TRADES. VERIFY ALL SPACE CONDITIONS AND DIMENSIONS AT JOBSITE PRIOR TO FABRICATION OF PIPING AND INSTALLATION OF EQUIPMENT AND MATERIALS.
20. CONTRACTOR SHALL RPOVIDE FULLY DESCRIPTIVE SHOP DRAWINGS WITH HYDRAULIC CALCULATIONS TO BE APPROVED BY AHJ.

FIRE PROTECTION LEGEND

SYMBOL	ABBREV.	DESCRIPTION
⋈	BFV	INDICATING TYPE BUTTERFLY VALVE W/TS
⋈	OS&Y	OUTSIDE SCREW AND YOKE GATE VALVE W/TS
—⋈—	CH.V.	CHECK VALVE
—□	FL.SW.	FLOW SWITCH
⬡		HYDRAULIC REFERENCE POINT
		* SEE SPRINKLER SCHEDULE FOR SPECS.
○		NEW UPRIGHT QUICK RESPONSE
●		NEW CONCEALED QUICK RESPONSE
○ EX		EXISTING UPRIGHT QUICK RESPONSE
● EX		EXISTING CONCEALED QUICK RESPONSE
▷ EX		EXISTING SIDEWALL SPRINKLER HEAD

THESE PLANS ARE FOR BUILDING DEPARTMENT REVIEW. THEY ARE NOT TO BE CONSTRUED AS FINAL CONSTRUCTION DOCUMENTS UNTIL ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED AND COMMENTS INCORPORATED INTO THESE DWGS. DUE TO THE VARIATIONS IN INTERPRETATIONS OF THE CODE THAT OCCUR IN DIFFERENT MUNICIPALITIES FINAL APPROVAL AND REVIEW IS NEEDED TO ASSURE COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

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Nov. 31, 2011

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FS NOTES & DETAILS

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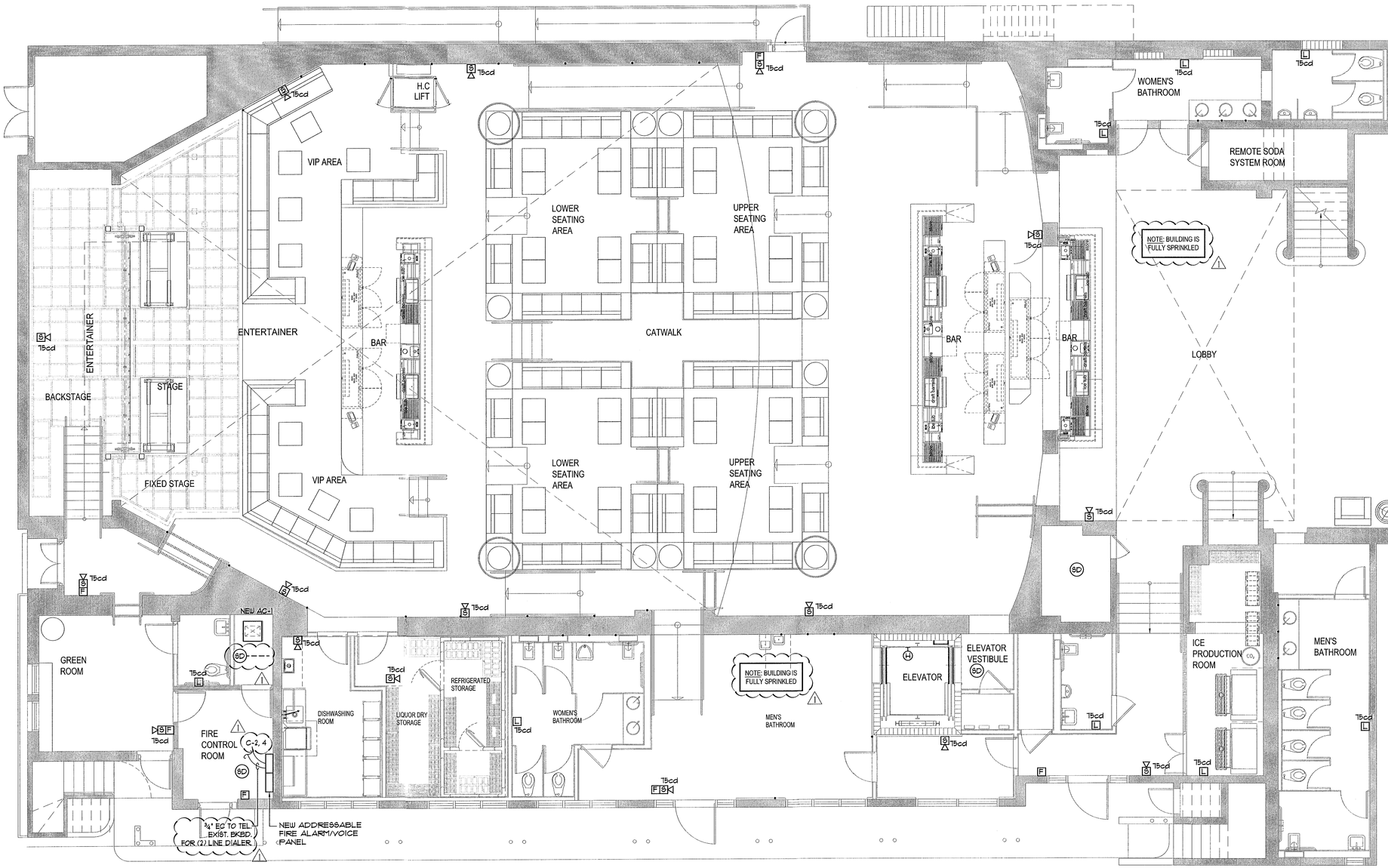
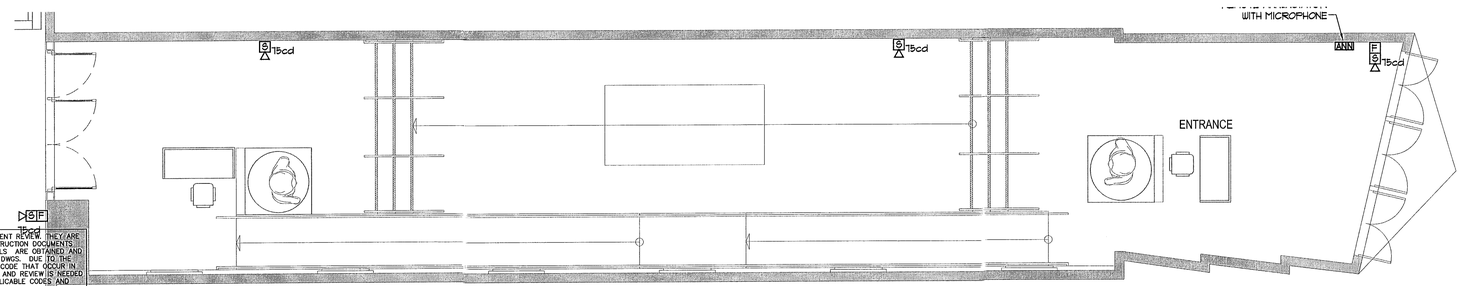


NOTE: FIRE ALARM CONTRACTOR SHALL PROVIDE F/A PLANS WITH BATTERY CALCULATIONS AND EQUIPMENT CUTS.

GROUND FLOOR PLAN

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



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GROUND FLOOR PLAN

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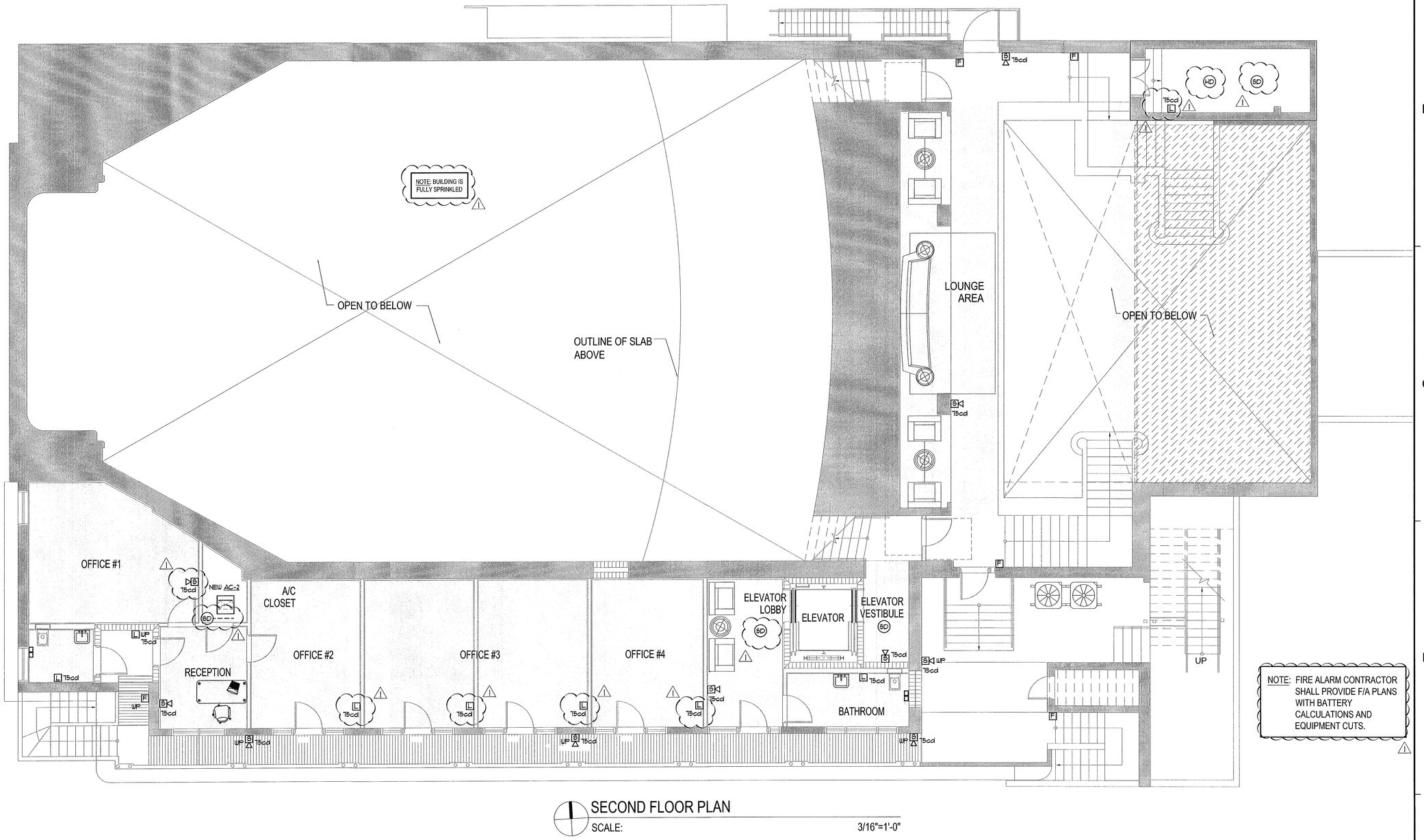

SECOND FLOOR PLAN

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

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SECOND FLOOR PLAN

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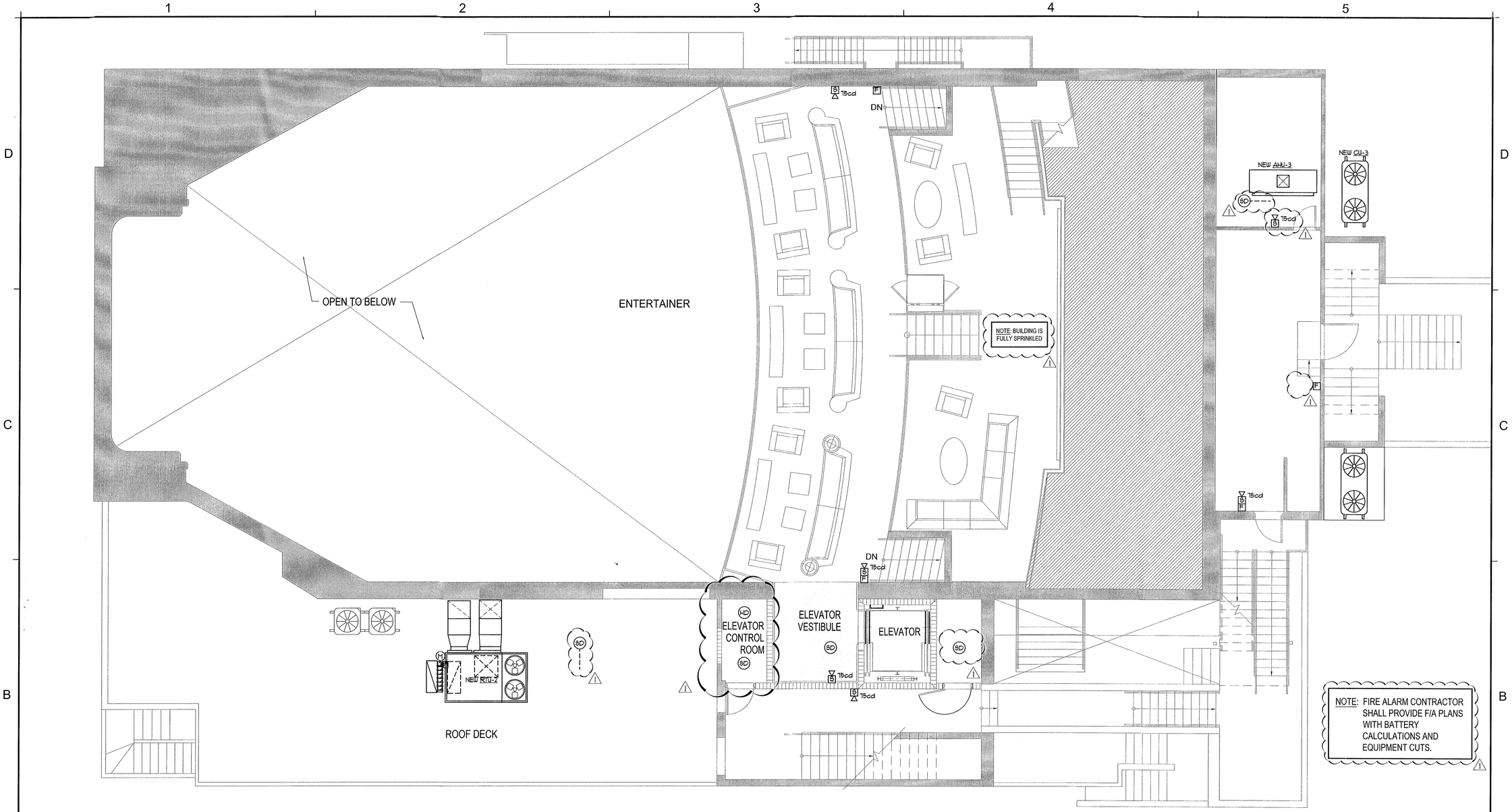

THIRD FLOOR PLAN

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

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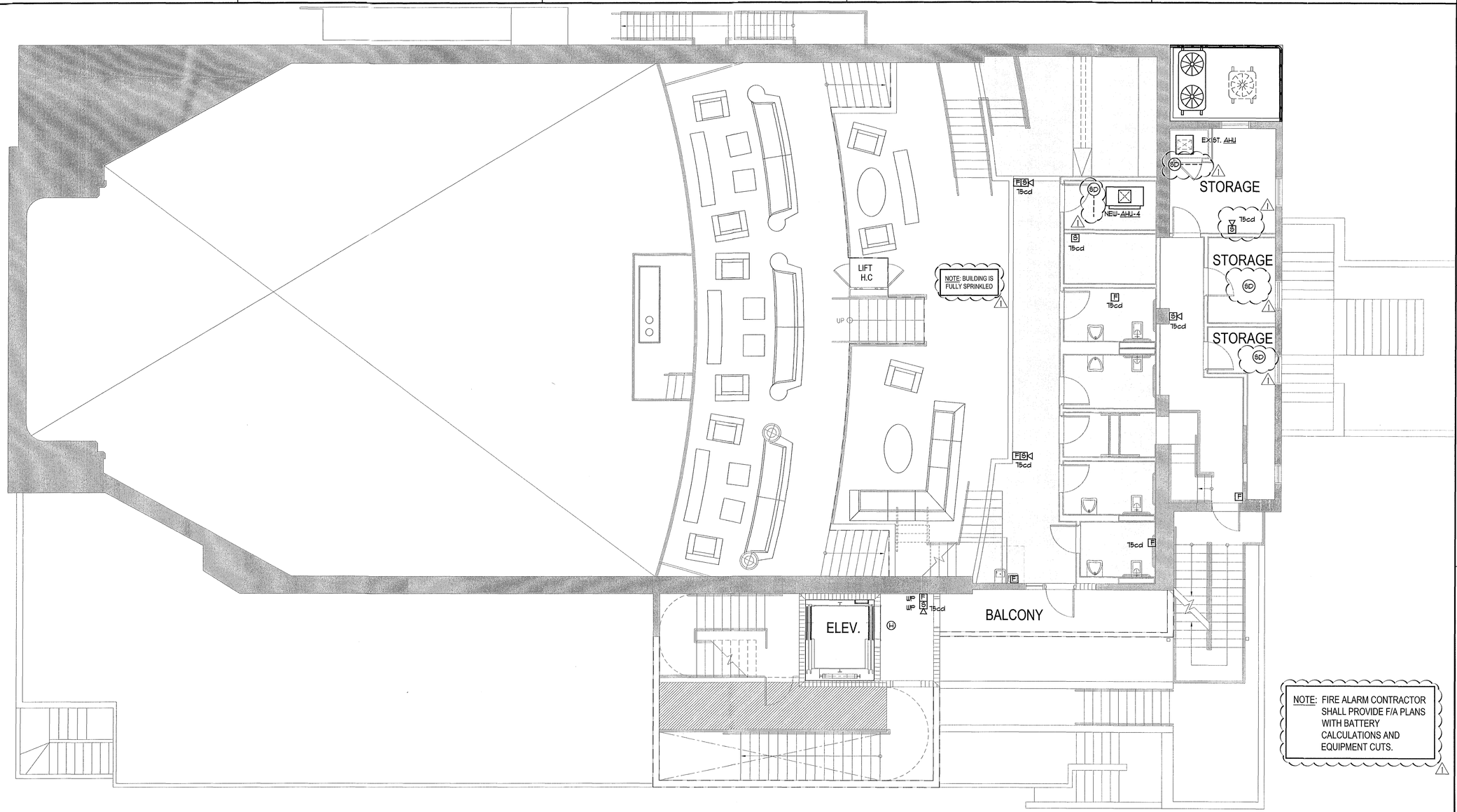

NOTE: FIRE ALARM CONTRACTOR SHALL PROVIDE F/A PLANS WITH BATTERY CALCULATIONS AND EQUIPMENT CUTS.

FOURTH FLOOR PLAN

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

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FOURTH FLOOR PLAN

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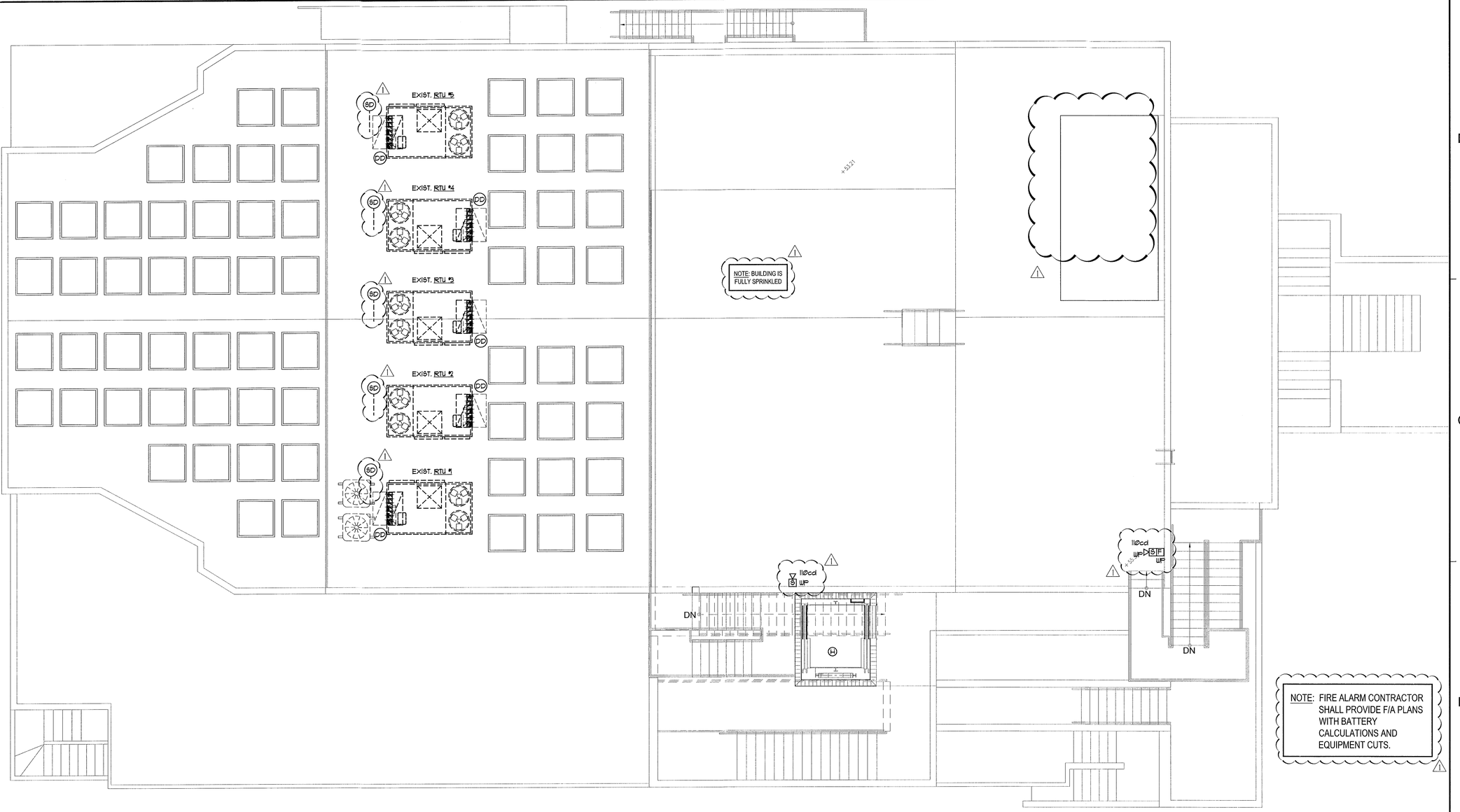

ROOF PLAN

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

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GENERAL NOTES

PART 1 – GENERAL

1.1 SCOPE

A. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATIONS INCLUDES THE FURNISHING OF ALL LABOR, EQUIPMENT, MATERIALS, AND PERFORMANCE OF ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF THE LIFE SAFETY SYSTEM AS SHOWN ON THE DRAWINGS AND AS HEREIN SPECIFIED.

B. THE COMPLETE INSTALLATION SHALL CONFORM TO THE APPLICABLE SECTIONS OF NFPA–72, LOCAL CODE REQUIREMENTS NATIONAL ELECTRICAL CODE, ANSI ELEVATOR CODE, AND ANSI HANDICAP CODE.

1.2 GENERAL

A. FURNISH AND INSTALL A COMPLETE LIFE SAFETY SYSTEM AS DESCRIBED HEREIN AND AS SHOWN ON THE PLANS: TO BE WIRED, CONNECTED, AND LEFT IN FIRST CLASS OPERATING CONDITION. THE SYSTEM SHALL USE CLOSED LOOP INITIATING DEVICE CIRCUITS WITH INDIVIDUAL ZONE SUPERVISION, AMPLIFIER AND TONE GENERATOR SUPERVISION, INCOMING AND STANDBY POWER SUPERVISION.

B. ALL PANELS AND PERIPHERAL DEVICES SHALL BE THE STANDARD PRODUCT OF A SINGLE MANUFACTURER AND SHALL DISPLAY THE MANUFACTURER'S NAME ON EACH COMPONENT. THE CATALOGUE NUMBERS SPECIFIED UNDER THIS SECTION ARE THOSE OF THE EDWARDS SYSTEMS TECHNOLOGY INC AND CONSTITUTE THE TYPE, QUALITY OF ALARM,MATERIAL,AND OPERATING FEATURES DESIRED.

1.3. SEQUENCE OF OPERATION.

1.3.1 ACTIVATION OF ANY MANUAL INITIATING DEVICE WITHIN THE SYSTEM SHALL CAUSE THE FOLLOWING ACTIONS AND INDICATIONS:

A. RECORD WITHIN THE NONVOLATILE SYSTEM HISTORICAL MEMORY THE OCCURRENCE OF THE EVENT, THE TIME AND DATE OF OCCURRENCE AND THE DEVICE INITIATION THE EVENT.
B. ACTIVATE THE ALARM LIGHT & SOUNDER AT THE FACP.
C. DISPLAY A CUSTOM MESSAGE DESCRIBING THE LOCATION OF THE DEVICE INITIATING THE EVENT AT FACP & LCD ANNUCIATOR.
D. SEND A SIGNAL TO THE LISTED CENTRAL STATION VIA TELEPHONE LINES AND THE COMMUNICATOR DIALER (DACT)

1.3.2. ACTIVATION OF ANY AUTOMATIC INITIATING DEVICE WITHIN THE SYSTEM SHALL CAUSE THE FOLLOWING ACTIONS AND INDICATIONS:

A. SOUND THE HORN CIRCUIT WITH THE EVACUATION TONE & DIGITAL MESSAGE THE VISUAL SIGNALS OF THE FLOOR OF INCIDENT, FLOOR ABOVE, FLOOR BELOW, STAIRWELLS AND ALL COMMON USES AREA.
B. RECORD WITHIN THE NONVOLATILE SYSTEM HISTORICAL MEMORY THE OCCURRENCE OF THE EVENT, THE TIME AND DATE OF OCCURRENCE AND THE DEVICE INITIATION THE EVENT.
C. ACTIVATE THE ALARM LIGHT & SOUNDER AT THE FACP.
D. DISPLAY A CUSTOM MESSAGE DESCRIBING THE LOCATION OF THE DEVICE INITIATING THE EVENT AT FACP & LCD ANNUCIATOR.
E. SEND A SIGNAL TO THE LISTED CENTRAL STATION VIA TELEPHONE LINES AND THE COMMUNICATOR DIALER (DACT)
F. ACTIVATION OF SMOKE CONTROL SEQUENCE:
SEE SMOKE CONTROL SEQUENCE

1.3.3 ELEVATOR RECALL SEQUENCE:

A. ACTIVATION OF ANY SMOKE DETECTORS IN A SINGLE ELEVATOR LOBBY, AN ELEVATOR EQUIPMENT ROOM OR ELEVATOR HOIST WAY SHALL, BESIDES THE ACTIONS DESCRIBED ABOVE, SHALL CAUSE THE CAPTURE OF THE ELEVATOR ACCORDING TO THE LOCAL AHJ.
B. ACTIVATION OF THE SMOKE DETECTORS IN THE FIRST FLOOR ELEVATOR LOBBY SHALL, BESIDES THE ACTIONS DESCRIBED ABOVE, CAUSE THE RECALL OF THAT BANK OF ELEVATORS TO THE ALTERNATE RECALL FLOOR.
C. ACTIVATION OF ANY SMOKE DETECTORS IN AN ELEVATOR EQUIPMENT ROOM SHALL, BESIDES THE ACTIONS DESCRIBED ABOVE, CAUSE THE ACTIVATION OF THE WARNING LIGHTS ON THE PRIMARY AND ALTERNATE RECALL LEVELS.
D. ACTIVATION OF ANY SYSTEM HEAT DETECTOR IN AN ELEV. HOIST WAY OR MACH.ROOM SHALL CAUSE THE POWER TO THE ELEVATOR (S) IN THAT BANK TO SHUNT. POWER FOR SHUNT–TRIP MOST BE SUPERVISED

1.3.4. ACTIVATION OF ANY TAMPER SWITCH SHALL CAUSE A SUPERVISORY SIGNAL TO INDICATE AT THE MAIN FACP.

1.3.5. ACTIVATION OF ANY DUCT DETECTOR SHALL CAUSE A SUPERVISORY SIGNAL AT FACP & REPORT TO CENTRAL STATION AND PROVIDE THE REQUIRED AUXILIARY FUNCTION.

1.4. ZONING

1. INITIATION ZONES: POINT ADDRESSABLE WITH CUSTOM MESSAGE PER INITIATING DEVICE.

2. INDICATING APPLIANCE CIRCUITS

A. EACH FLASHING LIGHT CIRCUIT NOT TO EXCEED 3.0 AMPS OF CURRENT LOAD. PROOF OF CALCULATIONS MUST BE SUBMITTED. DEVICE QUANTITY TO DICTATE THE PROPER NUMBER OF FLASHING LIGHT SIGNAL CIRCUITS REQUIRED.
ONE FLASHING LIGHT CIRCUIT PER FLOOR

B. VOICE CIRCUIT SHALL BE CAPABLE OF 25 WATTS PER CIRCUIT.
ONE CIRCUIT PER FLOOR
ONE CIRCUIT PER ELEVATOR CAB
ONE CIRCUIT PER STAIRWAY

C. TELEPHONE CIRCUITS
ONE CIRCUIT PER FLOOR
ONE CIRCUIT PER ELEVATOR CAB BANK

1.5 SUPERVISION

A. THE SYSTEM SHALL PROVIDE SUPERVISION FOR ALL OUPUT CIRCUITS (CLASS B) USING AND END OF LINE RESISTOR
B. ALL ADDRESSABLE DEVICES SHALL BE DIGITALLY SUPERVISED
C. DUCT DETECTOR SHALL PROVIDE A SUPERVISORY SIGNAL UPON ACTIVATION AND OF A.H.U ASSOCIATED.

PART 2 – EDWARD'S SYSTEMS TECHNOLOGY IS THE BASE PRODUCT

2.1 FIRE ALARM CONTROL PANEL

A. WHERE SHOWN ON THE PLANS, PROVIDE AND INSTALL AN EST 3 FIRE ALARM CONTROL PANEL ,CONSTRUCTION SHALL BE MODULAR WITH SOLID STATE, MICROPROCESSOR BASED ELECTRONICS. ALL VISUAL INDICATOR SHALL BE HIGH CONTRASTS, LCD TYPE. CONTROL PANEL SHALL HOUSE THE NECESSARY AMPLIFIERS FOR 25% ABOVE REQUIRED WATTAGE NEEDED FOR A COMPLETE SYSTEM. CONTROL PANEL SHALL CONTAIN ALL POWER SUPPLIES, INITIATING CIRCUITS, SPEAKER CIRCUITS, TELEPHONE CIRCUITS, POWER AMPLIFIERS, STANDBY BATTERIES, AND AUXILIARY MODULES NECESSARY TO MEET THE INTENT OF THE SYSTEM DESCRIBED IN THE SPECIFICATIONS AND SHOWN ON THE PLANS.

2.2 PERIPHERAL DEVICE

A. MANUAL STATIONS

MANUAL STATION SHALL BE SIGA 270 SINGLE ACTION AND SHALL BE CONSTRUCTED HIGH IMPACT, RE LEXAN WITH RAISED WHITE LETTERING AND A SMOOTH HIGH GLOSS FINISH. THE STATION WHICH UTILIZE SCREWDRIVERS, ALLEN WRENCHES, OR OTHER COMMONLY AVAILABLE TOOL SHALL NOT BE ACCEPTED. ON OUT DOOR LOCATION WEATHER PROOF VERSION SHALL BE PROVIDED.

B. SMOKE DETECTORS

FURNISH AND INSTALL WHERE INDICATED ON THE PLANS, SIGA–PS SMOKE DETECTORS. DETECTORS SHALL BE USED LIST TO U.L. STANDARD 268 AND SHALL BE DOCUMENTED COMPATIBLE WITH THE CONTROL EQUIPMENT TO WHICH IT IS CONNECTED.
NO ELECTRONIC CIRCUITRY OR ADDRESS IDENTIFICATION SHALL CONTAINED IN THE DETECTOR'S BASE.
THE DETECTOR SHALL BE PROGRAMMABLE FOR SPECIFIC FIRE HAZARD PROFILES THROUGH SOFTWARE SELECTION WHICH WILL DEFINE ITS PERCENT OF OBSCURATION AND OTHER IMPLEMENTATION SETTINGS.

C. ELEVATOR/MACHINE ROOM/ELEVATOR SHAFT SMOKE DETECTORS

FURNISH AND INSTALL WHERE INDICATED ON THE PLANS, SIGA–PS SMOKE DETECTOR.
DETECTORS SHALL BE LIST TO U.L. STANDARD 268 AND SHALL BE DOCUMENTED COMPATIBLE WITH THE CONTROL EQUIPMENT TO WHICH IT IS CONNECTED.

D. AUTOMATIC HEAT DETECTORS

AUTOMATIC HEAT DETECTORS SHALL BE COMBINATION RATE–OF–RISE AND FIXED TEMPERATURE TYPE. HEAT DETECTORS SHALL BE SIGA–HRS.

E. AUTOMATIC HEAT DETECTOR FOR ELEVATOR SHAFT & ELEV. MACHINE RM. MUST BE SYSTEM DETECTOR.

F. SPEAKER/STROBES

ALARM SPEAKERS/STROBES SHALL BE 757–8A–RS70 (WP TYPE), G4–S7VM GENESIS SERIES.
ROOM SPEAKER SHALL BE G4–S7 & CORRIDOR SPEAKER IS 965–1A–4RW.
VOLTAGE SHALL BE 70 VRMS.

G. STROBES

STROBE SHALL BE GENESIS SERIES G1–VXX. WEATHER PROOF VERSION SHALL BE CS405–XA (WP TYPE)

H. DUCT SMOKE DETECTORS

DUCT SMOKE DETECTORS SHALL BE SIGA–SD AND SHALL BE OF THE SOLID STATE PHOTOELECTRIC TYPE AND SHALL OPERATE ON THE LIGHT SCATTERING PHOTODIODE PRINCIPLE.
REMOTE ALARM LED INDICATOR SHALL BE SIGA LED.
DUCT DETECTOR SHALL INDICATE SUPERVISORY CONDITION ONLY.

I. CONTROL RELAYS

CONTROL RELAY SHALL BE THE SIGA–CR AND THE SIGA–IO FOR FAN.

J. WATERFLOW/GATE VALVES

SIGA–WTM AND SIGA–CT1 SHALL BE USE TO MONITOR SPRINKLER DEVICES

5. POWER REQUIREMENTS

A. THE CONTROL PANEL SHALL RECEIVE 120 VAC POWER VIA A DEDICATED FUSED DISCONNECT CIRCUIT.

B. THE SYSTEM SHALL BE PROVIDED WITH SUFFICIENT BATTERY CAPACITY TO OPERATE THE ENTIRE SYSTEM UPON LOSS OF NORMAL 120 VAC POWER IN A NORMAL SUPERVISORY MODE FOR A PERIOD OF FOUR (4) HOURS WITH (15) MINUTES (GEN. BACKUP) OF ALARM INDICATION AT THE END OF THIS PERIOD. THE SYSTEM SHALL AUTOMATICALLY TRANSFER TO THE STANDBY BATTERIES UPON POWER FAILURE. ALL BATTERY CHARGING AND RECHARGING OPERATIONS SHALL BE AUTOMATIC. BATTERIES, ONCE DISCHARGING, SHALL RECHARGE AT A RATE TO PROVIDE A MINIMUM OF 70% CAPACITY IN 12 HOURS.

C. THE INCOMING POWER TO THE SYSTEM SHALL BE SUPERVISED SO THAT ANY POWER FAILURE SHALL BE AUDIBLY AND VISUALLY INDICATED AT THE CONTROL PANEL. A GREEN "POWER ON" LED SHALL BE DISPLAYED CONTINUOUSLY WHILE INCOMING POWER IS PRESENT.

D. THE SYSTEM BATTERIES SHALL BE SUPERVISED SO THAT DISCONNECTION OF A BATTERY SHALL BE AUDIBLY AND VISUALLY INDICATED AT THE CONTROL PANEL.

3. TESTING

A. THE COMPLETE FIRE ALARM SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA–72 BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND THE LOCAL FIRE MARSHAL. NFPA COMPLETION FROM SHALL BE SUPPLIED.

4. WARRANTY

A. THE CONTRACTOR SHALL WARRANT THE COMPLETED FIRE ALARM SYSTEM WIRING AND EQUIPMENT TO BE FREE FROM INHERENT MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THE COMPLETED AND CERTIFIED TEST OR FROM THE DATE OF FIRST BENEFICIAL USE.

FIRE ALARM NOTES:

1. CONDUCTOR TYPE: FPL OR THHN
2. CONDUCTOR SIZE: PER MANUFACTURER RECOMMENDATION
3. RACEWAYS SIZE: MINIMUM 1/2"
4. EQUIPMENT: MANUFACTURED BY EDWARDS SYST. TECH
5. ALL COMPONENTS SHALL BE UL APPROVED FOR FIRE SERVICE USE AND SHALL BE COMPATIBLE.
6. FIRE ALARM SYSTEM SHALL BE "POWER LIMITED".
7. VISUAL ALARM PER ANSI A117.1.4.26 AND FLORIDA BUILDING CODE
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE FIRE ALARM/VOICE COMMUNICATION SYSTEM AS PER THE F.B.C. & LOCAL FIRE MARSHALL REQUIREMENTS.
9. ALL WIRING MUST CONFORM WITH NEC ARTICLE 760 AND LOCAL CODES. ALL EQUIPMENT SHALL BE UL LISTED. ALL DEVICES SHALL BE COMPATIBLE WITH THE CONTROL PANELS.
10. ALL INITIATING AND INDICATING CIRCUITS MUST BE SUPERVISED.
11. CIRCUIT POLARITY MUST BE OBSERVED.
12. WIRE RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION OF ALL EQUIPMENT TO BE DETERMINED IN THE FIELD.
13. SMOKE DETECTORS SHALL NOT BE LOCATED IN DIRECT STREAM FROM SUPPLY AIR OUTLETS.
14. MINIMUM CONDUIT SIZE WILL BE 1/2". CONDUIT SHALL BE NO MORE THAN 40% FILLED. FPL WIRE COULD BE RUNNED WITHOUT CONDUIT.
15. POWER UP & POWER DOWN ON PANEL MUST BE DONE IN PROPER SEQUENCE

    POWER DOWN

    A– DISCONNECT BATTERY.
    B– TURN OFF AC POWER PRIMARY & SECONDARY.

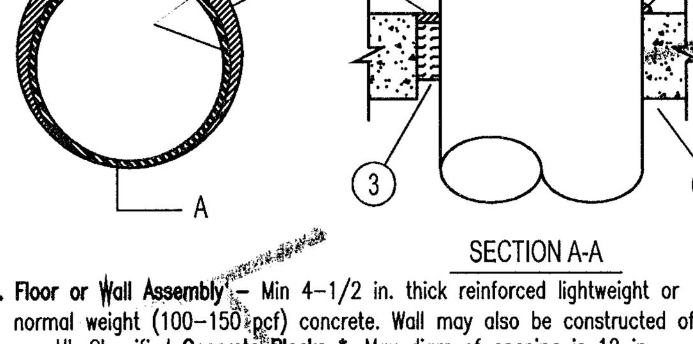
    POWER UP

    A– TURN ON AC POWER PRIMARY & SECONDARY.
    B– RECONNECT BATTERIES.
16. AHU SHUT DOWN IS BY THE RELAYS LOCATED NEAR AIR HU (3') THIS MUST BE USED IN THE NORMALLY CLOSED POSITION SO THAT A LOSS OF CONTINUITY BETWEEN THE RELAY CONTACTS AND THE UNIT WILL CAUSE AHU TO SHUT DOWN. RELAY CONTACTS ARE RATED AT 1 AMPS, 120 VAC, 24 VDC. UNDER NO CIRCUNSTANCES SHOULD THIS BE EXCEEDED.
17. THE FIRE ALARM CONTROL PANEL SHALL NOT BE USED TO POWER ANY UNAUTHORIZED EXTERNAL DEVICE.
18. ONE FLOW & TAMPER SWITCH PER FLOOR. FIELD VERIFY WITH FP DRAWINGS.
19. THE SYSTEM SHALL HAVE BATTERY BACK–UP FOR 24 HOURS IN THE SUPERVISORY MODE AND 5 MINUTES MINIMUM IN ALARM.
20. THIS IS A FULLY SPRINKLERED BUILDING.
21. CEILING–MOUNTED VISIBLE NOTIFICATION APPLIANCES (CEILING STROBES AND HORN/STROBES 75CD) SHALL BE INSTALLED AT 20 FT IN THE HIGH SIDE OF THE CEILING, MEASURERED HORIZONTALLY. SEE (CEILING HORN–STROBES) LITERATURE SHEET AND (7.5.4.1.6 NFPA 72–101 2002 EDITION)
22. SEND A SIGNAL TO THE LISTED CENTRAL STATION VIA TELEPHONE LINES AND THE COMMUNICATOR DIALER (DACT)
23. SIGNALING LINE CIRCUITS SHALL BE CLASS "B" STYLE "3", CAPACITY IS 250 DEVICES, 125 SHALL BE SENSORS & 125 MODULES.
24. ALL CEILING HEIGHTS ARE LESS THAN 10 FEET.
25. NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE CLASS "B", STYLE "Y" WITH AN AVERAGE OUTPUT OF 3 AMPS.
26. THIS FIRE ALARM IS A CENTRAL STATION SERVICE OR PLACARED FIRE ALARM SYSTEM WITH TWO PHONE LINE DIALER.
27. THE ROOM CONTAINING THE FACP & POWER SUPPLY (BPS) SHALL BE MECHANICAL VENTILATED.
28. FIRE ALARM CONTRACTOR SHALL PROVIDE A VALID CONTRACT BETWEEN THE OWNER OF THE PROPERTY OR BUSINESS AND A LISTD CENTRAL STATION SERVICE COMPANY TO PROVIDE SERVICING OF THE SYSTEM AND SUPERVISION OF THE NON LISTED CONTRACTOR'S INSTALLATION IN COMPLIANCE WITH NFPA 72 8.2.2 AND 8.2.3 (2002 EDITION) ("SUPERVISION OF THE INSTALLATION" STATEMENT MUST BE PART OF THE ORIGINAL MECHANICALLY REPRODUCED CONTRACT.
29. ENGINEERING SYSTEMS TECH. WILL PROVIDE UL CERTICATION (FILE NO. S24019–1)
30. ALL KNOCKOUTS USED SHALL BE THE STANDARD SHOWN IN THE LITERATURE SHEETS PROVIDED, OTHER WILL BE UNAPPROVED BY UL.

FIRE ALARM PLAN SUBMITTAL NOTE:
FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETE SET OF FA SHOP DRAWINGS TO BUILDING DEPARTMENT INCLUDING CUT–SHEETS AND BATTERY CALCULATIONS.

System No. C-AJ-1149
F Rating - 2 Hr
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - 4 CFM/sq ft

CAJ 1149



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 12 in.
   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. **Through Penetrants** – One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space shall be 0 in. (point contact) to max 1–1/4 in. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** – Nom 10 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Conduit** – Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
   C. **Copper Tubing** – Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
   D. **Copper Pipe** – Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
3. **Packing Material** – Min 3 in. thickness of min 4 pcf mineral wool batt insulation for nom 4 in. diam (and smaller) pipes, conduits or tubings and a min 4 in. thickness of min 4 pcf mineral wool batt insulation for pipe greater than nom 4 in. diam, firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
4. **Fill, Void or Cavity Material* – Sealant** – Min 1/2 in. thickness of fill material applied within the annulus, flush with the top surface of floor or both surfaces of wall. At the point of contact location between pipe and concrete, a min 1/2 in. diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP601S, CP606 or FS–ONE Sealant
   (Note: L Ratings apply only when FS–ONE Sealant is used).

*Bearing the UL Classification Marking

HILTI FIRESTOP SYSTEMS

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CLASSIFIED C UL US

FIRE ALARM DEVICE LEGEND			
SYMBOL	DESCRIPTION	CATALOG NUMBER	MOUNTING HEIGHT
○	SMOKE DETECTOR	SIGA–PS / SIGA–SB	
HD	HEAT DETECTOR	SIGA–HRS	
L 75CD	STROBE (75CD)	G1–VM	80" AFF TO BOTTOM
H 75CD	HORN/STROBE (75CD)	G1–HDVM	80" AFF TO BOTTOM
BPS	BOOSTER POWER SUPPLY	BPS–10	
FACP	FIRE ALARM CONTROL PANEL	EST–3 PANEL WITH VOICE	
⊠	PULL STATION	SIGA–270	80" AFF TO BOTTOM
PIV	POST INITIATION VALVE	BY OTHER	
BFP	BACKFLOW PREVENTOR	BY OTHER	
CT1	CONTROL MODULE	SIGA–CT1	
L 75CD	CEILING STROBE (MULTICALDELA)	GC–VM	20' AFF TO BOTTOM
HS 75CD	HORN/STROBE (MULTICANDELA)	GC–HDVM	20' AFF TO BOTTOM
H 110CD WP	HORN/STROBE (110CD)WP	757–8A–T/757A–WP	80" AFF TO BOTTOM
L 110CD WP	STROBE (110CD)WP	CS405–8A–T	80" AFF TO BOTTOM
B	FIRE ALARM BELL	439D–6AW(R)/449	
CR	CONTROL RELAY	SIGA–CR	
CC1	SIGNAL MASTER	SIGA–CC1	
R	REMOTE TEST	BY OTHER	
AN3	REMOTE ANNUNCIATOR	3–LCDANN WITH MICROPHONE	
DD	DUCT DETECTOR	SIGA–SD	
VSS	SURGE PROTECTOR	ACP100BWN3	
MR	MULTI–VOLTAGE CONTROL RELAYS	MR–101/T	
WT FS TS	WATERFLOW/TAMPER	SIGA–WTM	
F WP	PULL STATION (WP)	SG–32/SG–WP	
CC1S	SYNCHRONIZATION OUTPUT MODULE	SIGA–CC1S	

9-8-11
PERMIT SET

THESE PLANS ARE FOR BUILDING DEPARTMENT REVIEW. THEY ARE NOT TO BE CONSTRUED AS FINAL CONSTRUCTION DOCUMENTS UNTIL ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED AND COMMENTS INCORPORATED INTO THESE DWGS. DUE TO THE VARIATIONS IN INTERPRETATIONS OF THE CODE THAT OCCUR IN DIFFERENT MUNICIPALITIES FINAL APPROVAL AND REVIEW IS NEEDED TO ASSURE COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

VIVIANA FRANYIE LICENSE No. 49985 STATE OF FLORIDA PROFESSIONAL ENGINEER Nov 3 2011

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DESIGN | DRAWN | 9-8-11
JOB NUMBER 11-210

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REVISIONS / SUBMISSIONS

1 11-2-11 COORDINATION AAF

1151

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NOTES & DETAILS

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CHECKED BY: JG
DATE: 09-08-11

FA-2

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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:	12/2/11
ZONING:	11/29/11
DRB/HPB:	11/29/11 PB 1947
CONCURRENCY:	11/29/11
PLUMBING:	12/1/2011
ELECTRICAL:	12/07/11
MECHANICAL:	11/6/11
FIRE PREVENTION:	12/6/11
ENGINEERING:	12/6/11
PUBLIC WORKS:	12-6-11
STRUCTURAL:	12-7-11
ELEVATOR:	12/05/11