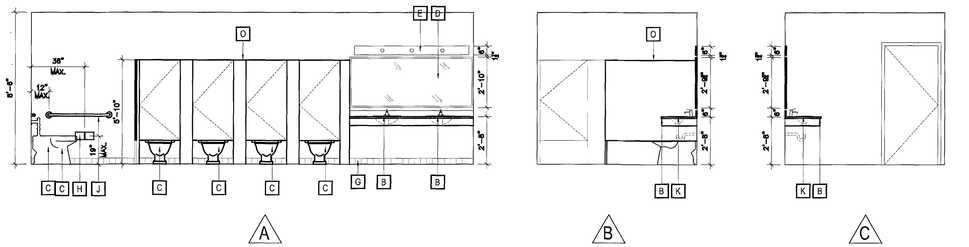
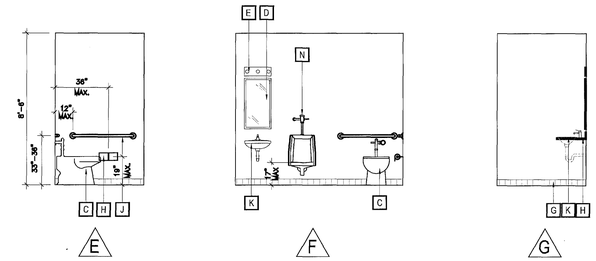
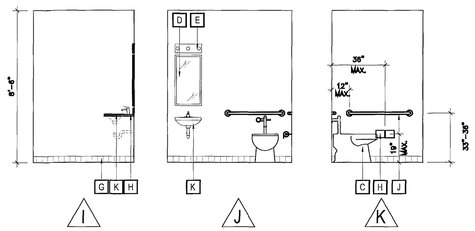


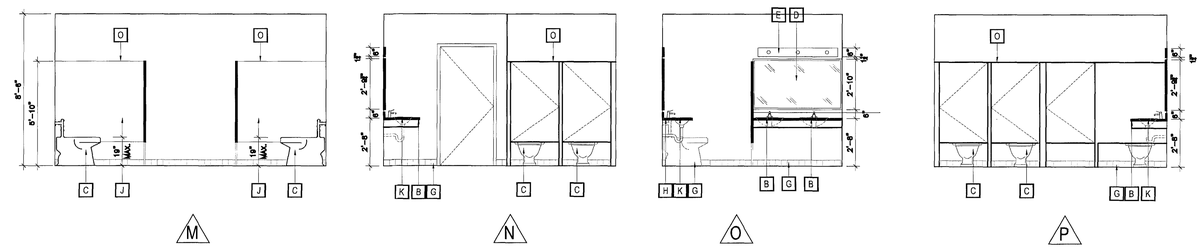
1 WOMANS BATHROOM ELEVATIONS
A-7.03 1/4"=1'-0"



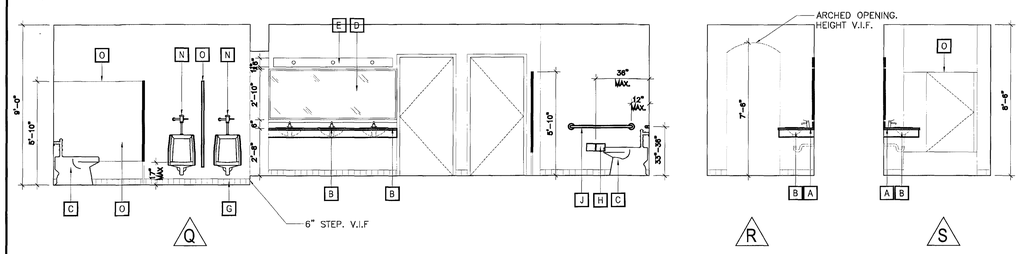
2 BATHROOM ELEVATIONS
A-7.03 1/4"=1'-0"



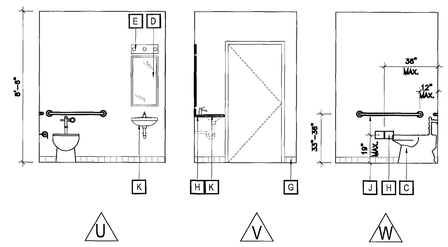
3 BATHROOM ELEVATIONS
A-7.03 1/4"=1'-0"



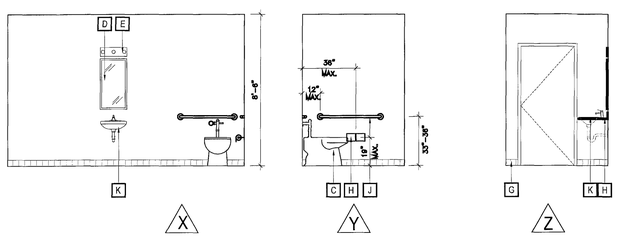
4 BATHROOM ELEVATIONS
A-7.03 1/4"=1'-0"



5 BATHROOM ELEVATIONS
A-7.03 1/4"=1'-0"



6 BATHROOM ELEVATIONS
A-7.03 1/4"=1'-0"



7 BATHROOM ELEVATIONS
A-7.03 1/4"=1'-0"

REVISIONS / SUBMISSIONS

1	BLDG DEPT COMMENTS 10-25-11
2	
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BAMBOO GROUP INC.
550 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA

BATHROOM INTERIOR ELEVATIONS

NOV 03 2011

Lic. # AR0012578

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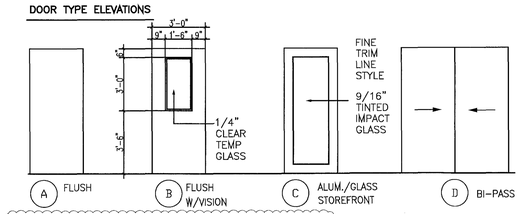
DRAWN BY:	MD,JO
CHECKED BY:	JG
DATE:	09-08-11

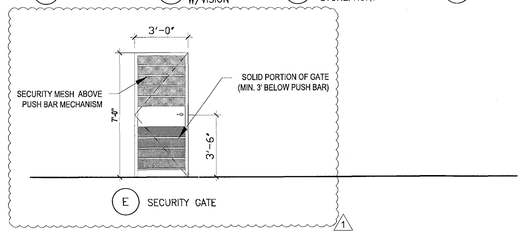
A-7.03

DOOR SCHEDULE

	No.	LOCATION	SIZE	DOOR MAT'L	DOOR FINISH	DOOR TYPE	FRAME MAT'L	FRAME FINISH	FIRE RATING	DETAIL	THRESHOLD	REMARKS
LEVEL 1	100	FPL ROOM	(2)2'-6" x 8'-0" x 1-3/4"	HM	PAINT	A	HM	–	–	X/AX.00	WEATHERPROOF	
	101	BACKSTAGE	(2)2'-0" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	X/AX.00	WEATHERPROOF	IMPACT RESISTANT GLASS
	102	BATHROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	103	FIRE ALARM ROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	104	A/C CLOSET	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	105	GREEN ROOM	2'-10" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	WEATHERPROOF	
	106	FIRE ALARM ROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	107	DISHWASHING ROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	108	LIQUOR DRY STOR.	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	109	WOMEN'S BATHROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	110	VESTIBULE	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	111	CORRIDOR	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	112	ELECTRICAL CLOSET	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	113	ELECTRICAL CLOSET	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	114	MEN'S BATHROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	115	ICE PROD. ROOM	(2)2'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	116	WOMEN'S BATHROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	117	STORAGE	2'-4" x 6'-8" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	VERIFY HEIGHT @ FIELD
	118	TEL. COMM ROOM	2'-6" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	119	MEN'S BATHROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	120	MEN'S BATHROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	121	BAR	2'-8" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	X/AX.00	–	IMPACT RESISTANT GLASS
	122	UPPER SEATING AREA	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	WEATHERPROOF	
	123	STORAGE	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	WEATHERPROOF	
	124	LOBBY	3'-4" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	X/AX.00	–	IMPACT RESISTANT GLASS 7 8
	125	LOBBY	(2)3'-4" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	X/AX.00	–	IMPACT RESISTANT GLASS 7 8
	E1	ENTRANCE	(2)2'-6" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	–	–	EXISTING DOOR TO REMAIN 7 8
	E2	ENTRANCE	(2)2'-6" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	–	–	EXISTING DOOR TO REMAIN 7 8
	E3	ENTRANCE	(2)2'-6" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	–	–	EXISTING DOOR TO REMAIN 7 8
	E4	SOUTH EAST STAIR	2'-6" x 6'-8" x 1-3/4"	WD	PAINT	A	WD	PAINT	–	–	–	EXISTING DOOR TO REMAIN
	E5	SOUTH EAST STAIR	4'-0" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	–	–	EXISTING DOOR TO REMAIN 7 8
	E6	ELEVATOR LOBBY	4'-0" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	–	–	EXISTING DOOR TO REMAIN 7 8
LEVEL 2	200											NOT USED
	201											NOT USED
	202	LOUNGE AREA	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	WEATHERPROOF	7
	203	UNISEX BATHROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	204	ELEVATOR LOBBY	3'-0" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	X/AX.00	WEATHERPROOF	IMPACT RESISTANT GLASS. SEE ELEVATION 2/A-8.00
	205	OFFICE #4	3'-0" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	X/AX.00	WEATHERPROOF	IMPACT RESISTANT GLASS. SEE ELEVATION 2/A-8.00
	206	OFFICE #3	3'-0" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	X/AX.00	WEATHERPROOF	IMPACT RESISTANT GLASS. SEE ELEVATION 2/A-8.00
	207	OFFICE #2	3'-0" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	X/AX.00	WEATHERPROOF	IMPACT RESISTANT GLASS. SEE ELEVATION 2/A-8.00
	208	OFFICE #1	3'-0" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	X/AX.00	WEATHERPROOF	IMPACT RESISTANT GLASS. SEE ELEVATION 2/A-8.00
	209	OFFICE #1	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	–	–	X/AX.00	–	
	210	A/C CLOSET	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	211	EXECUTIVE OFFICE	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	212	RECEPTION	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	WEATHERPROOF	2
	213	BATHROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	WEATHERPROOF	8
	214	STORAGE	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	E7	SOUTHEAST EXTERIOR	2'-6" x 6'-8" x 1-3/4"	WD	PAINT	A	WD	PAINT	–	–	–	EXISTING DOOR TO REMAIN
	E8	LOUNGE AREA	4'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	–	–	EXISTING DOOR TO REMAIN 7 8
LEVEL 3	300	ELEV. CTRL. ROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	B	X/AX.00	WEATHERPROOF	8
	301	MECH. ROOM	3'-0" x 7'-0" x 1-3/4"	WD	PAINT	A	HM	PAINT	B	X/AX.00	WEATHERPROOF	2 8
	302	UPPER SEAT. AREA	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	C			
	E10	EXIST. MECH. ROOM	2'-6" x 6'-8" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	–	–	EXISTING DOOR TO REMAIN
	E11	–	4'-0" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	PAINT	–	–	–	EXISTING DOOR TO REMAIN
	E12	–	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	–	–	EXISTING DOOR TO REMAIN
LEVEL 4	400	STORAGE	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	401	WOMEN'S BATHROOM	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	402	WOMEN'S BATH HCP	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	403	CORRIDOR	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	404	MEN'S BATH	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	405	MEN'S BATH HCP	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	8
	406	BALCONY	3'-0" x 7'-0" x 1-3/4"	GLASS	GLASS	C	HM	–	–	X/AX.00	WEATHERPROOF	IMPACT RESISTANT GLASS. SEE ELEVATION 3/A-8.00 15
	407	CORRIDOR	2'-8" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	WEATHERPROOF	
	408								–			NOT USED
	409	STORAGE	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	410	STORAGE	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	411	STORAGE	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	412	A/C CLOSET	3'-0" x 7'-0" x 1-3/4"	HM	PAINT	A	HM	PAINT	–	X/AX.00	–	
	413	NEW MTL STAIR.	3'-0" x 7'-0" x 1-3/4"	HM	MTL	E	HM	MTL	–	X/AX.00	–	8 SEE DOOR TYPE "E" FOR DETAILS
ROOF	R01	ROOF EXIST. MTL STR.	3'-0" x 7'-0" x 1-3/4"	HM	MTL	E	HM	MTL	–	X/AX.00	–	8 SEE DOOR TYPE "E" FOR DETAILS

DOOR TYPE ELEVATIONS





NOTE:
1. ALL STEEL FRAMES SHALL BE FULLY WELDED,16-GUAGE OR GREATER IF REQUIRED BY FIRE RATED LABEL. PRIME FINISH READY FOR ON SITE FINAL PAINT.
2. ALL ALUM. FRAMES OR PICKETS SHALL BE ANODIZED ALUMINUM WITH NATURAL ALUMINUM "KYNAR" FINISH.
3. ALL OVERHEAD COILING METAL DOORS SHALL BE 690 ZINC COATED OF NO LESS THAN 22-GAUGE OR GREATER IF REQUIRED BY FIRE RATED LABEL. COILING DOORS SHALL BE PROVIDED COMPLETE WITH ENDLOCKS, BOTTOM BAR, HOOD AND JAMB GUIDES.
4. ALL OVERHEAD SECURITY COILING DOORS SHALL BE ASTM A666, TYPE 300 SERIES STAINLESS STEEL WITH 5/16" DIA. RODS HAVING 2" VERTICAL AND 9" HORIZONTAL SEPARATION PROVIDE COMPLETE WITH ENDLOCKS, BOTTOM BAR, HOOD AND JAMB GUIDES.

NOTE:
1. ALL STEEL DOORS SHALL BE OF SEAMLESS FLUSH EDGE WITH TOP AND BOTTOM CLOSURE PLATE, 20 GAUGE REATER IF REQUIRED BY FIRE RATED LABEL. PRIME FINISH READY FOR ON SITE FINAL PAINT.
2. ALL ALUM. STOREFRONT DOORS SHALL BE ANODIZED ALUMINUM WITH NATURAL ALUMINUM "KYNAR" FINISH.

FIRE DOOR LEGEND

	3 HOUR DOOR	A LABEL
2 HOUR WALL	1 1/2 HOUR DOOR	B LABEL
1 HOUR WALL	45 MIN. DOOR	C LABEL
1/2 HOUR WALL	20 MIN. DOOR	

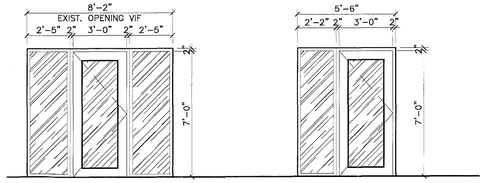
NOTES:
1. EGRESS DOORS SHALL BE A MINIMUM OF 3'-0" IN WIDTH.
2. ALL STAIRWELL DOORS TO MEET RATE OF RISE REQUIREMENT.
3. 400 DEGREE RATED RISE
4. TRASH CHUTE DOORS TO BE 1 1/2 HOUR 'B' LABEL

ABBREVIATION LEGEND

AL	ALUMINUM	PL	PLASTIC LAMINATE
AN	ANODIZED	SCW	SOLID CORE WOOD
G	GALVANIZED	STN	STAIN
GL	GLASS	WD	WOOD
HCW	HOLLOW CORE WOOD	BR	BRASS
HM	HOLLOW METAL	BRZ	BRONZE
MTL	METAL	PLE	PLEXIGLAS
P	PAINT	SG	SAFETY GLASS
PA	PANIC HARDWARE	SS	STAINLESS STEEL

DOOR NOTES

1. ALL GLAZING & MIRRORS IN DOORS TO BE TEMPERED OR SAFETY GLASS.
2. ALL DOORS SHALL COMPLY WITH NFPA 101 SECTION 7.2.1.5 LOCKS LATCHES AND ALARM DEVICES.
3. ALL DOORS & HARDWARE SHALL MEET ADA REQ.
4. HOLLOW METAL DOORS ARE 16 GAUGE.
5. ALL STEEL FRAMES ARE GALVANIZED AND PAINTED FIRE DOORS AND FRAMES SHALL BE 'B' LABEL RATED 90 MIN.
6. ALL EXTERIOR DOORS SHALL HAVE WEATHERSTRIPPING HINGES AT EXTERIOR DOORS SHALL HAVE NON-REMOVABLE OIN WITH SECURITY STUDS TYPE.



2/A8.00 3/A8.00

DOOR SCHEDULE REMARKS CODE

CODE	DESCRIPTION
1	FUSIBLE LINK.
2	180 SWING.
3	PROVIDE DOORS WITH ELECTRIC HOLD OPEN CLOSER WIRED TO FIRE ALARM PANEL.
4	DOOR FINISH REFER TO INTERIOR DESIGN DRAWINGS FOR DETERMINATION.
5	REFER TO INTERIOR DESIGN DRAWINGS FOR DOOR ELEVATIONS.
6	DOUBLE-ACTING DOOR.
7	PROVIDE DOORS WITH PANIC HARDWARE.
8	AUTOMATIC CLOSER.
9	ELECTRIC STRIKE CONNECTED TO FIRE ALARM PANEL.
10	SPRING HINGES.
11	SLIDING POCKET DOORS.
12	WIRE MESH GATE.
13	DOOR TO HAVE BOTTOM SWEEP.
14	ALL STAIRWELL DOORS TO HAVE FIRE EXIT HARDWARE.
15	WEATHER STRIP
16	RAIN DRIP
17	INSULATED PANELS
17	INSULATED PANELS

DOOR HANDICAP NOTES

DOOR HARDWARE

HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES MUST HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE, LEVER OPERATED MECHANISM AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. HARDWARE REQUIRED FOR PASSAGE MUST BE MOUNTED NO HIGHER THAN 48" A.F.F.

DOOR CLOSURES

IF A DOOR HAS A CLOSER THEN THE SWEEP PERIOD OF THE CLOSER MUST BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURE TO THE LEADING EDGE OF THE DOOR.

DOOR OPENING FORCE

THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR MUST BE AS FOLLOWS:
EXTERIOR HINGED DOORS: (ADAAG PROVIDES NO REQUIREMENTS AT THIS TIME.)
INTERIOR HINGED DOORS: 5 LBF

REVISIONS / SUBMISSIONS
1 BLDG DEPT COMMENTS 10-25-11
2 BLDG DEPT COMMENTS 11-21-11
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DOOR SCHEDULE

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

A-8.00

ROOM FINISH SCHEDULE

	ROOM NUMBER	ROOM NAME	FLOOR FINISH: EXPOSED CONCRETE SEALED	FLOOR FINISH: CARPET	FLOOR FINISH: CERAMIC TILE	BASE FINISH: CERAMIC TILE	BASE FINISH: WOOD BASE	BASE FINISH: NONE	WALL FINISH: DRYWALL PAINTED	WALL FINISH: CERAMIC TILE*	WALL FINISH: STUCCO PAINTED	WALL FINISH: ~~WOOD~~ WALLS (WOOD PANELS)	WALL FINISH: CMU PAINTED	WALL FINISH: CMU EXPOSED	CEILING FINISH: PT. SKIM UNDERSIDE OF SLAB	CEILING FINISH: STUCCO PAINTED	CEILING FINISH: DRYWALL PAINTED	CEILING FINISH: 2x2 ACOUSTIC TILE	CEILING FINISH: EXPOSED UNDERSIDE OF SLAB	CEILING FINISH: ACOUSTICAL SPRAY TEXTURE	REMARKS
LEVEL 1	100	FPL ROOM	•					•	•										•		
	101	BACKSTAGE	•					•	•												OPEN TO ABOVE
	102	STAGE	•					•	•												OPEN TO ABOVE
	103	FIXED STAGE	•					•	•												OPEN TO ABOVE
	104	VIP AREA	•					•	•			•									OPEN TO ABOVE
	105	BAR			•			•	•								•				
	106	GREEN ROOM	•					•	•								•				
	107	BATHROOM			•	•			•								•				SEE INTERIOR ELEVATIONS @ SHEET A-7.03
	108	A/C CLOSET	•					•	•								•				
	109	FIRE CONTROL ROOM	•					•	•										•		
	110	DISHWASHING ROOM			•			•		•									•		
	111	LIQUOR DRY STORAGE	•					•	•										•		
	112	COOLER	•					•											•		
	113	WOMEN'S BATHROOM			•	•				•							•				SEE INTERIOR ELEVATIONS @ SHEET A-7.03
	114	ELEVATOR LOBBY	•					•	•								•				
	115	ELECTRICAL CLOSET	•					•	•										•		
	116	ELEVATOR VESTIBULE	•					•	•								•				
	117	ELECTRICAL CLOSET	•					•	•										•		
	118	MEN'S BATHROOM			•	•			•								•				SEE INTERIOR ELEVATIONS @ SHEET A-7.03
	119	STORAGE	•					•	•										•		
	120	REMOTE SODA SYSTEM RM.	•					•	•										•		
	121	ICE PRODUCTION ROOM	•					•	•										•		
	122	WOMEN'S BATHROOM			•	•				•							•				SEE INTERIOR ELEVATIONS @ SHEET A-7.03
	123	VESTIBULE	•					•	•								•				
	124	LOBBY	•					•	•								•				EXIST. DECORATIVE ELEMENTS TO REMAIN, BE RESTORED. SEE SHEET A-1.10, A-1.11 1
	125	BAR	•					•	•						•						
	126	BAR	•					•	•			•			•						
	127	LOWER BAR AREA	•					•	•						•						
	128	UPPER SEATING AREA			•			•	•			•									OPEN TO ABOVE
	129	LOWER SEATING AREA 1			•			•	•			•									OPEN TO ABOVE
	130	PERFORMERS PLATFORM			•			•	•												OPEN TO ABOVE
	131	TEL COMM ROOM	•					•											•		
	132	MEN'S BATHROOM			•	•				•							•				SEE INTERIOR ELEVATIONS @ SHEET A-7.03
	133	ENTRANCE	•					•	•								•				EXIST. DECORATIVE ELEMENTS TO REMAIN, BE RESTORED. SEE SHEET A-1.10, A-1.11 1
LEVEL 2	200	EXECUTIVE OFFICE	•					•	•								•				
	201	BATHROOM			•	•				•							•				SEE INTERIOR ELEVATIONS @ SHEET A-7.03
	202	A/C CLOSET	•					•	•										•		
	203	RECEPTION	•					•	•								•				
	204	OFFICE #1	•					•	•								•				
	205	OFFICE #2	•					•	•								•				
	206	OFFICE #3	•					•	•								•				
	207	OFFICE #4	•					•	•								•				
	208	ELEVATOR LOBBY	•					•	•								•				
	209	UNISEX BATHROOM			•	•				•							•				SEE INTERIOR ELEVATIONS @ SHEET A-7.03
	210	ELEVATOR VESTIBULE	•					•	•								•				
	211	LOUNGE AREA	•					•	•								•				
	212	STORAGE	•					•	•										•		
LEVEL 3	301	ELEVATOR CONTROL ROOM	•					•	•										•		
	302	ELEVATOR VESTIBULE	•					•	•								•				
	303	MECHANICAL ROOM	•					•											•		
	304	ENTERTAINER	•					•	•												OPEN TO ABOVE
	305	LOWER SEATING AREA	•					•	•			•					•				
	306	UPPER SEATING AREA	•					•	•			•					•				
LEVEL 4	400	SERVICE BAR	•					•	•								•				
	401	STORAGE 1	•					•	•										•		
	402	WOMEN'S ACCESSIBLE BATH			•	•				•							•				SEE INTERIOR ELEVATIONS @ SHEET A-7.02
	403	WOMEN'S ACCESSIBLE BATH			•	•				•							•				SEE INTERIOR ELEVATIONS @ SHEET A-7.02
	404	CORRIDOR 1	•					•	•								•				
	405	MEN'S BATH RCP			•	•				•							•				SEE INTERIOR ELEVATIONS @ SHEET A-7.02
	406	MEN'S BATH RCP			•	•				•							•				SEE INTERIOR ELEVATIONS @ SHEET A-7.02
	407	STORAGE	•					•	•										•		
	408	STORAGE	•					•	•										•		
	409	STORAGE	•					•	•										•		
	410	CORRIDOR	•					•	•										•		
	411	CLOSET	•					•	•										•		
	412	A/C CLOSET	•					•	•										•		
	413	CORRIDOR	•					•	•									•			
ROOF																	•				

INTERIOR FINISHES NOTE:

INTERIOR FINISH SHALL BE IN ACCORDANCE WITH NFPA 101-SECTION 10.2. INTERIOR WALL & CEILING FINISH MATERIALS COMPLYING WITH SECTION 10.2 SHALL BE CLASS 'A' OR CLASS 'B' IN ALL CORRIDORS AND GENERAL ASSEMBLY AREAS WITH AN OCCUPANT LOAD OF MORE THAN 300, AND SHALL BE CLASS 'A', 'B' OR 'C' IN ASSEMBLY AREAS HAVING AN OCCUPANT LOAD OF 300 OR FEWER. ENCLOSED STAIRS SHALL BE CLASS 'A' 1

NOTE
WOOD PANELS & WALLS SHALL BE FLAME RETARDANT 11/9/11

REVISIONS / SUBMISSIONS
1 BLDG DEPT COMMENTS 10-25-11
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1151

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BAMBOO GROUP INC.
550 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA

FINISH SCHEDULE

NOV 03 2011
Lic. # AR0012578

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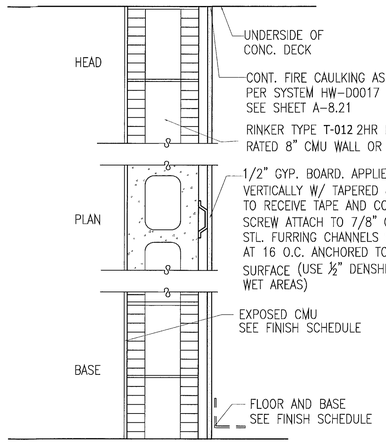
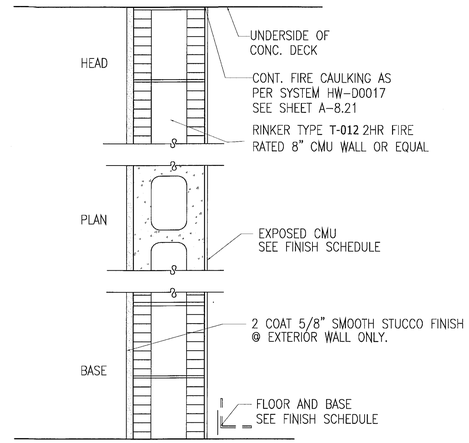
WWW.KOBIKARP.COM
KOBI KARP

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

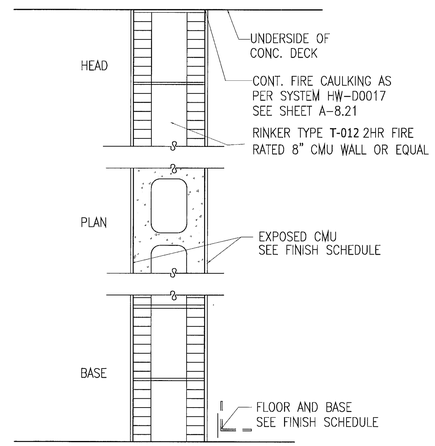
A8.01



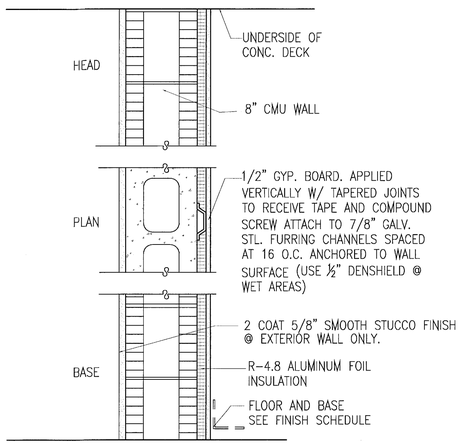
W1	2HR FIRE RATED CMU WALL	UL# U905
A-8.10	1 1/2" = 1'-0"	



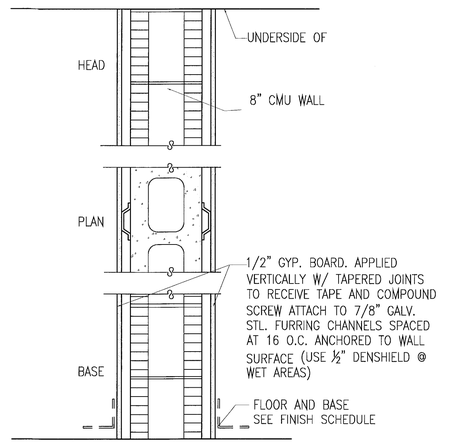
W2	2HR FIRE RATED CMU WALL	UL# U905
A-8.10	1 1/2" = 1'-0"	



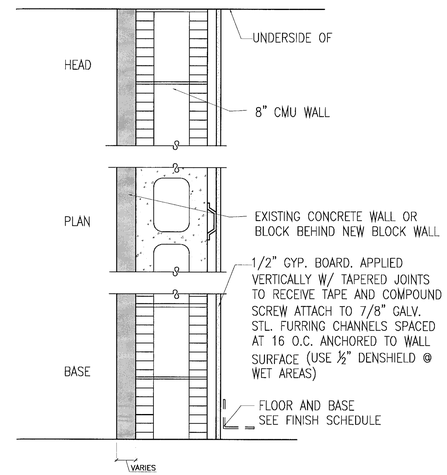
W3	2HR FIRE RATED CMU WALL	UL# U905
A-8.10	1 1/2" = 1'-0"	



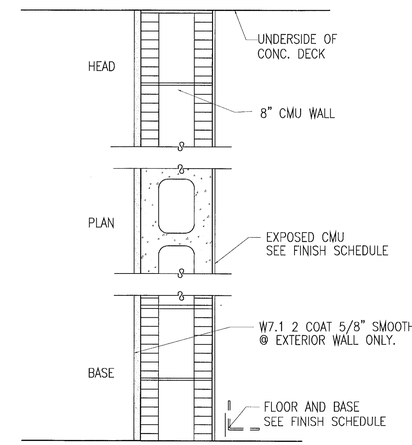
W4	8" CMU WALL
A-8.10	1 1/2" = 1'-0"



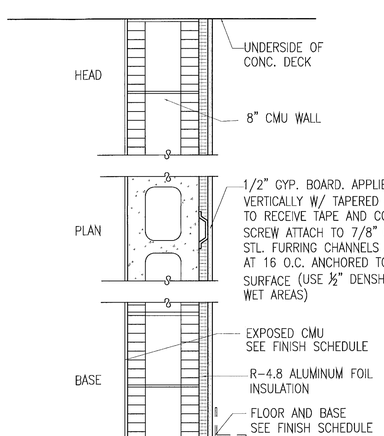
W5	8" CMU WALL
A-8.10	1 1/2" = 1'-0"



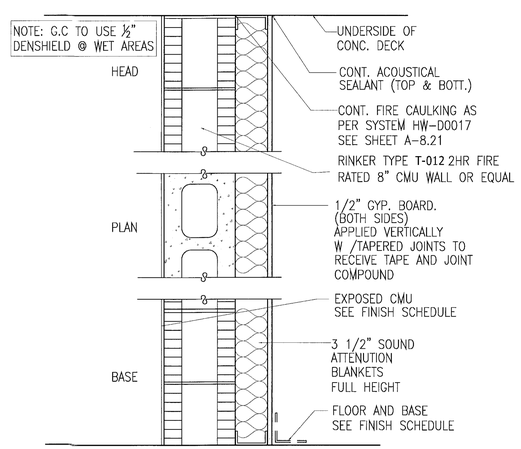
W6	8" CMU WALL
A-8.10	1 1/2" = 1'-0"



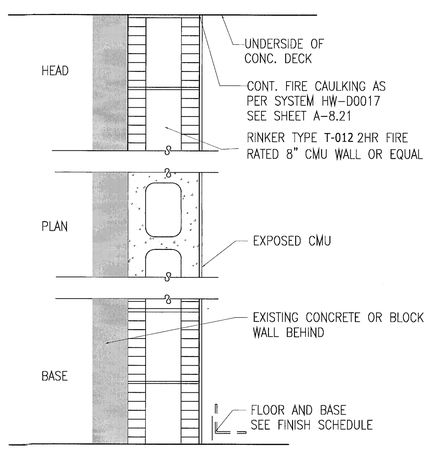
W7	8" CMU WALL
A-8.10	1 1/2" = 1'-0"



W8	8" CMU WALL
A-8.10	1 1/2" = 1'-0"



W9	2HR FIRE RATED CMU WALL	UL# U905
A-8.10	1 1/2" = 1'-0"	



W10	2HR FIRE RATED CMU WALL
A-8.10	1 1/2" = 1'-0"

REVISIONS / SUBMISSIONS

1	BLDG DEPT COMMENTS 10-25-11
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BAMBOO GROUP INC.
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WALL TYPE DETAILS

NOV 03 2011

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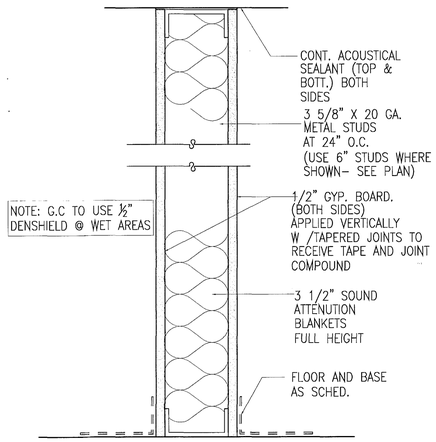
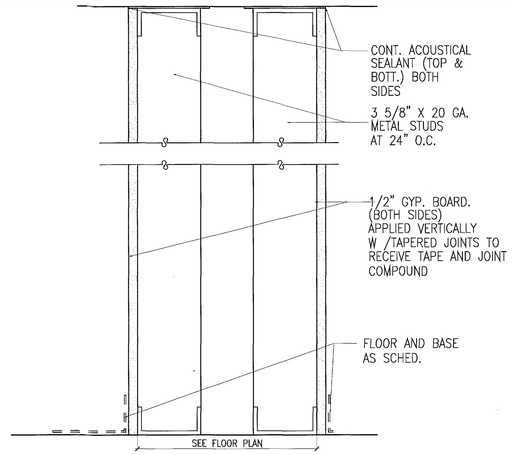
KOBI KARP

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

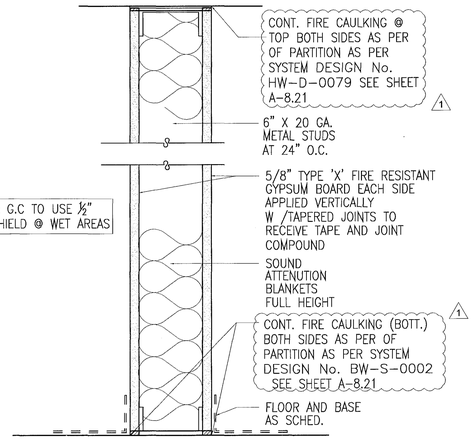
A-8.10



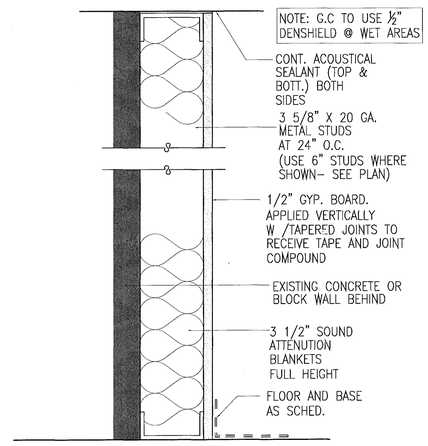
P1	NON RATED PARTITION
A-8.11	1 1/2" = 1'-0"



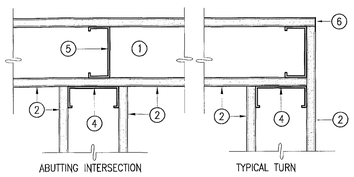
P2	NON-RATED PARTITION
A-8.11	1 1/2" = 1'-0"



P3	1HR FIRE RATED PARTITION	UL# U419
A-8.11	1 1/2" = 1'-0"	

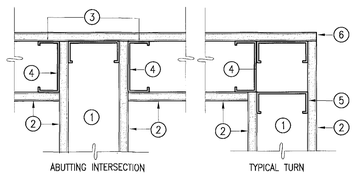


P4	NON-RATED PARTITION
A-8.11	1 1/2" = 1'-0"

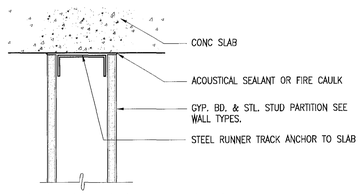


PENETRATING INTERSECTION

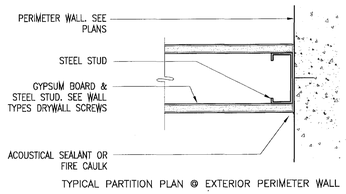
1. METAL RUNNER CR
2. GYPSUM WALL BOARD SEE WALL TYPE
3. IF MULTIPLE LAYERS OF G. W. B. ARE REQUIRED ON ONLY ONE SIDE OF THE INTERSECTION, OFFSET STUDS TO PROVIDE FLUSH FINISH
4. FASTEN STUDS TOGETHER THROUGH ABUTTING SURFACE SCREW STUD FLANGES TO FLOOR AND CEILING TRACK
5. STUD REQUIRED AT THIS LOCATION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



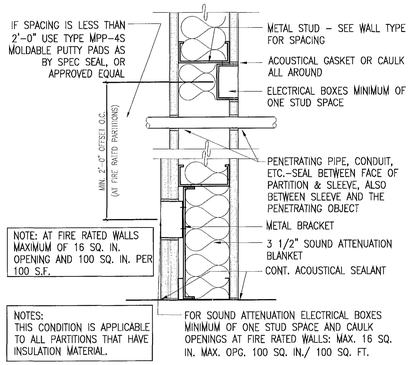
NOTE:
ABUTTING INTERSECTION IS TYPICAL, BUT IF ONE OR BOTH PARTITIONS HAVE MULTIPLE LAYER FACES OR ARE SOUND BARRIERS, PENETRATING PARTITION HAS THE GREATER FIRE RATING. INTERSECTION IS REQUIRED UNLESS PASSING



TYPICAL PARTITION SECTION UNDERSIDE OF CONC SLAB

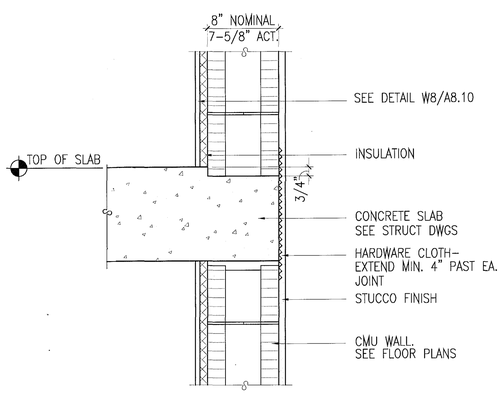


TYPICAL PARTITION PLAN @ EXTERIOR PERIMETER WALL

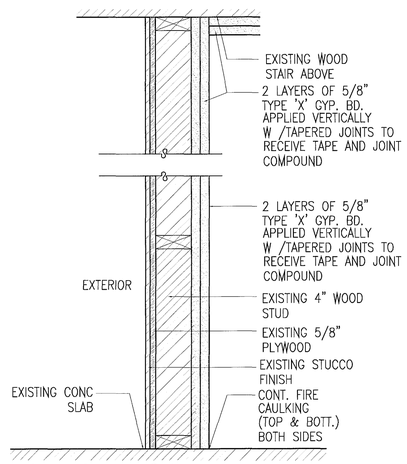


TYPICAL PARTITION DETAIL

N.T.S



1	TYPICAL EXTERIOR WALL @ SLAB DETAIL
A-8.11	N.T.S



P5	PARTITION DETAIL
A-8.11	1 1/2" = 1'-0"

GENERAL NOTES:

1. APPLY GYPSUM BOARD PANELS PARALLEL TO STUD. 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". 3/8" MAXIMUM GAP AT FLOOR CONDITIONS.

2. ELECTRIC BOXES TO BE OFFSET IN ALL SOUND RATED PARTITIONS AT A MINIMUM OF 24" OC. PROVIDE ONE STUD (MINIMUM) BETWEEN OFFSET BOXES, INSTALL ACCUSTIC SEALANT AROUND OPPENINGS AND FIRE PROOFING PUTTY AROUND JUNCTION BOXES AT FIRE-RATED ASSEMBLIES.

3. THE PARTITON WITH THE HIGHEST FIRE RATING WILL RUN CONTINUOUS THROUGH INTERSECTING AND PERPENDICULAR PARTITIONS.

4. ALL VOIDS BETWEEN METAL DECKING AND TOP PLATE OF RATED PARTITION TO BE PACKED TIGHT WITH THERMAFIBER BLANKETS.

5. FIBER BLANKET INSULATION TO BE THERMAFIBER "SAFB'S" OR APPROVED EQUAL.

6. STUD GAUGE TO BE A MINIMUM OF 25GA ACCORDANCE WITH ASTM REQUIREMENTS C 645.

7. HEIGHT LIMIT OF STUDS TO BE IN ACCORDANCE WITH ANSI REQUIREMENTS AND GYPSUM ASSOCIATION RECOMENDATIONS.

8. IN-WALL BLOCKING AND BACKING SHALL BE INSTALLED IN ALL ASSEMBLIES AS REQUIRED TO MAINTAIN SPECIFIED FIRE RATINGS; TO COMPLY WITH EFFECTIVE FAIR HOUSING ACT REQUIREMENTS; AND TO COMPLY WITH EFFECTIVE FLORIDA ACCESSIBILITY CODE REQUIREMENTS.

9. PROVIDE DENSHIELD TILE BOARD AT ALL WET AREAS AND AS NOTED

10. USE 8" RINKER TYPE T-012 OR EQUAL CMU WALL WHEN 2HR FIRE SEPARATION IT'S REQUIRED

11. USE 8" RINKER TYPE T-007 OR EQUAL CMU WALL **WHEN 1HR FIRE SEPARATION IT'S REQUIRED**

REVISIONS / SUBMISSIONS

1	BLDG DEPT COMMENTS 10-25-11
2	BLDG DEPT COMMENTS 11-21-11
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WALL TYPE DETAILS

NOV 30 2011

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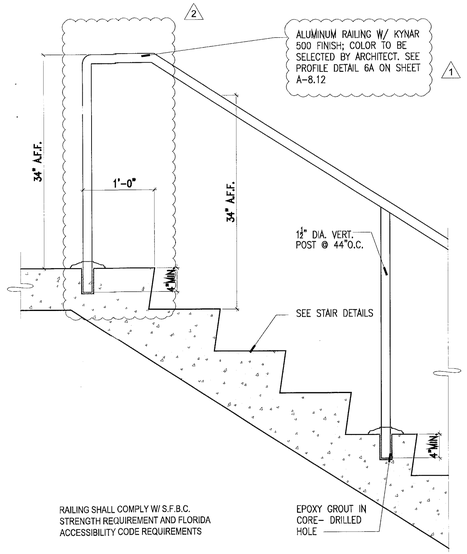
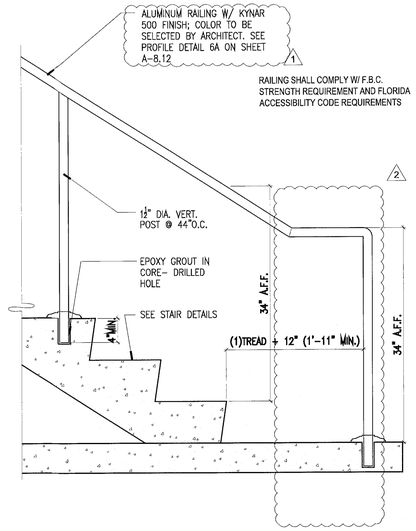
DRAWN BY:	MD,JO
CHECKED BY:	JG
DATE:	09-08-11

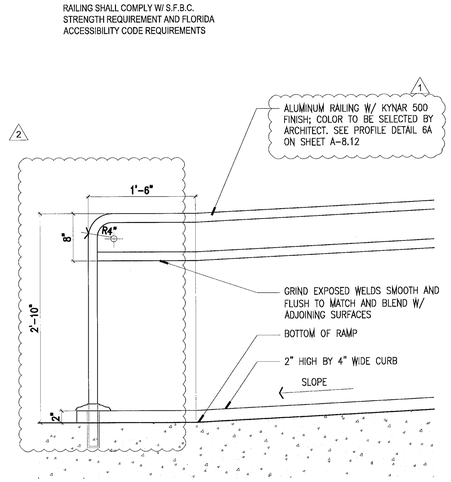
A-8.11



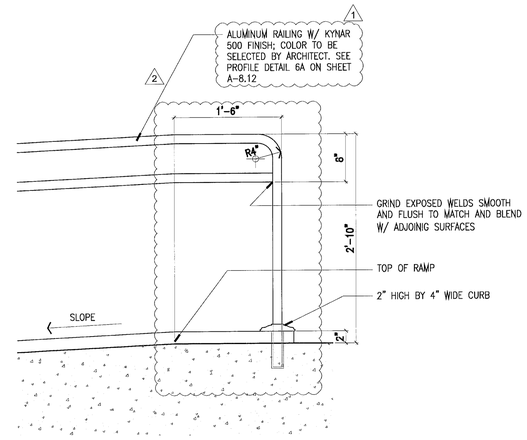
1 RAILING DETAILS AT STAIRS
A-8.12 1" = 1'-0"



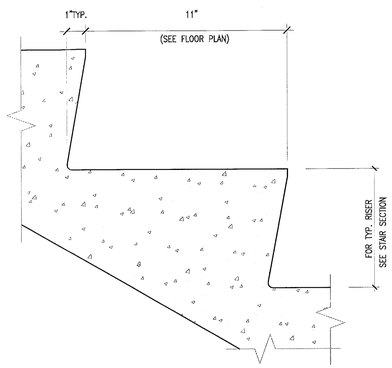
2 RAILING DETAILS AT STAIRS
A-8.12 1" = 1'-0"



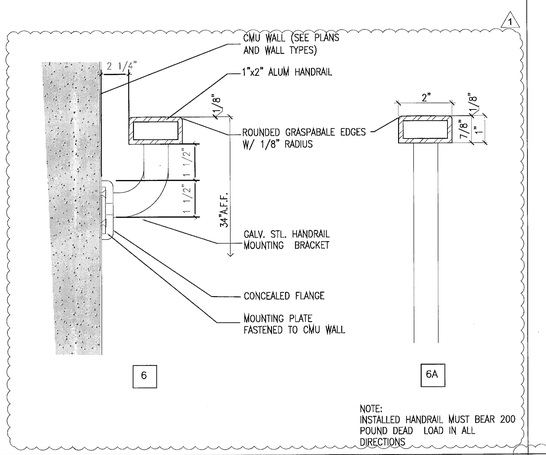
3 RAILING DETAILS AT RAMP
A-8.12 1" = 1'-0"



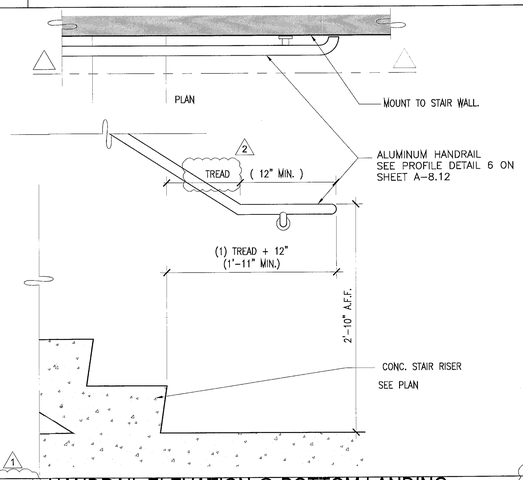
4 RAILING DETAILS AT RAMP
A-8.12 1" = 1'-0"



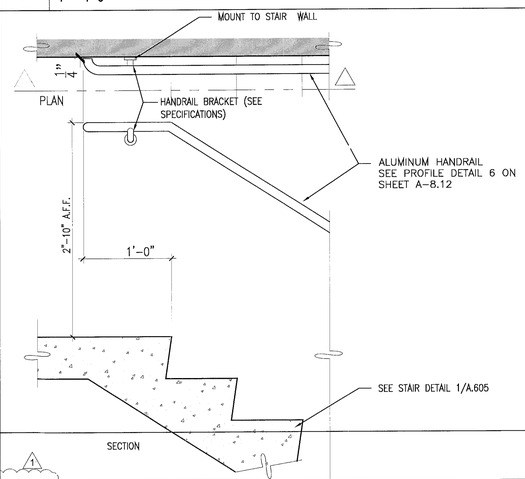
5 TREAD AND RISER DETAIL
A-8.12 3" = 1'-0"



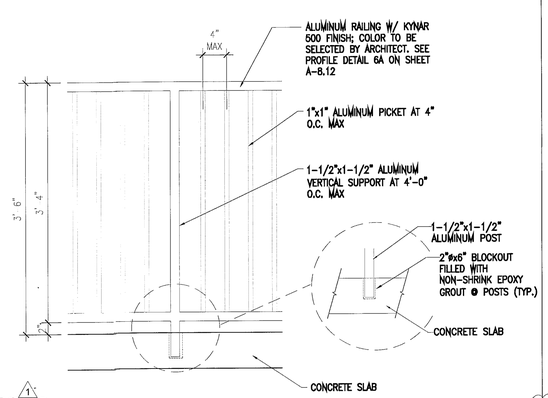
6/6A RAILING DETAIL
A-8.12 3" = 1'-0"



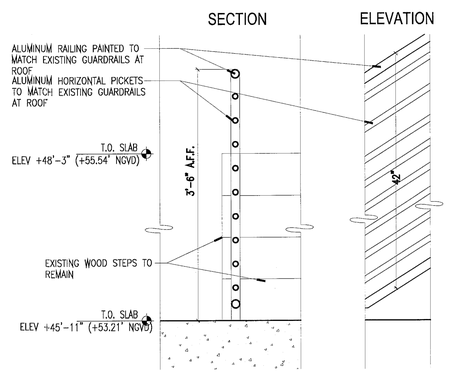
7 HANDRAIL ELEVATION @ BOTTOM LANDING
A-8.12 1" = 1'-0"



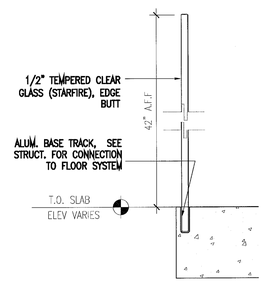
8 HANDRAIL ELEVATION @ TOP LANDING
A-8.12 1" = 1'-0"



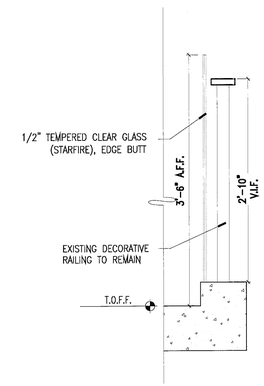
9 GUARDRAIL DETAIL AT RAMP
A-8.12 3" = 1'-0"



10 GUARDRAIL DETAIL AT ROOF
A-8.12 3" = 1'-0"



11 GLASS GUARDRAIL DETAIL
A-8.12 3" = 1'-0"



12 GLASS GUARDRAIL DETAIL
A-8.12 3" = 1'-0"

REVISIONS / SUBMISSIONS

1	BLDG DEPT COMMENTS 10-25-11
2	BLDG DEPT COMMENTS 11-21-11
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BAMBOO GROUP INC.
550 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA

STAIR & RAMP DETAILS

NOV 04 2011

Lic. # AR0012578

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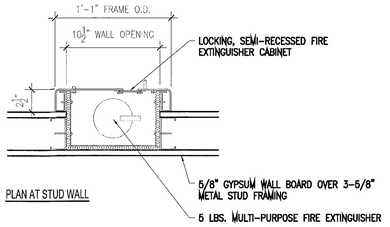
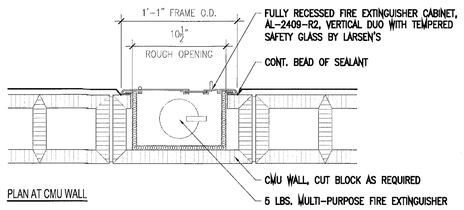
KOBI KARP

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

A-8.12

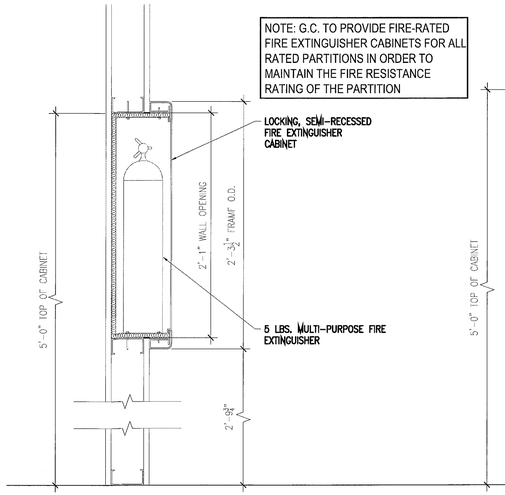


PLAN AT STUD WALL

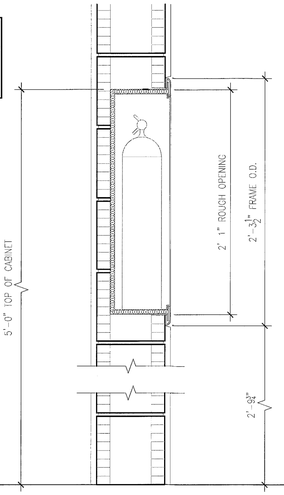


PLAN AT CMU WALL

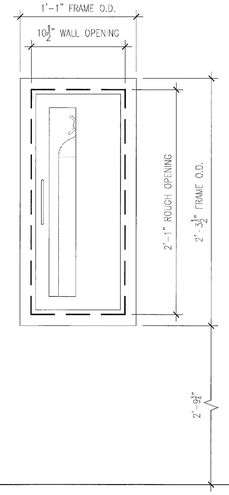
NOTE: G.C. TO PROVIDE FIRE-RATED FIRE EXTINGUISHER CABINETS FOR ALL RATED PARTITIONS IN ORDER TO MAINTAIN THE FIRE RESISTANCE RATING OF THE PARTITION



SECTION AT STUD WALL



SECTION AT CMU WALL



ELEVATION

1	FIRE EXTINGUISHER DETAILS
A-8.13	1 1/2" = 1'-0"

REVISIONS / SUBMISSIONS

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BAMBOO GROUP INC.
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MISCELLANEOUS DETAILS

NOV 03 2011

Lic. # AR0012578

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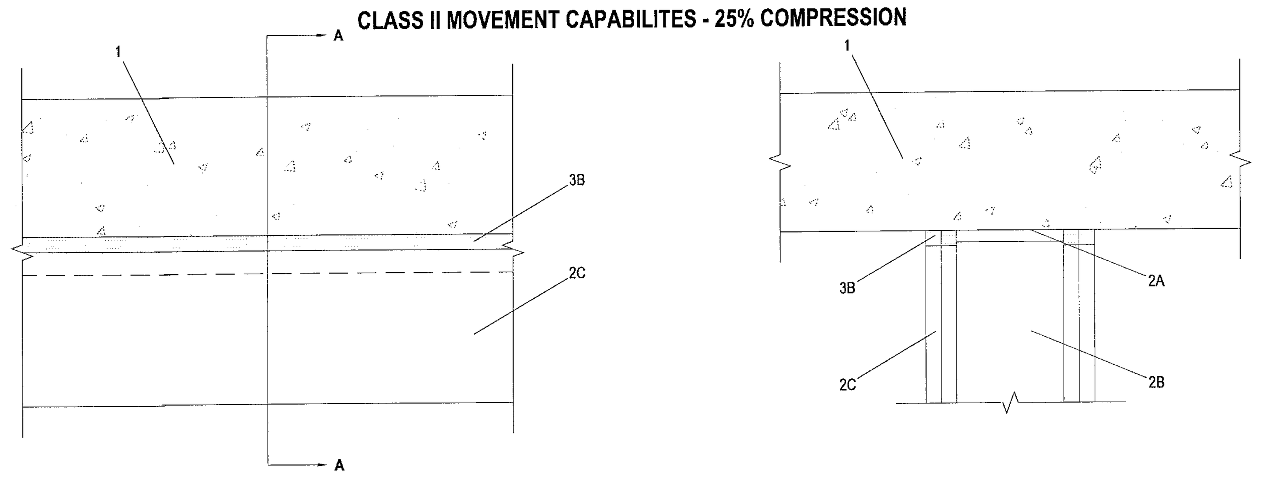
KOBI KARP

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

A-8.13

DESIGN No. HW-D-0079
ASSEMBLY RATINGS - 1 and 2 HR (SEE ITEM 2)
JOINT WIDTH - 3/4" MAXIMUM
CLASS II MOVEMENT CAPABILITES - 25% COMPRESSION



1. FLOOR ASSEMBLY - MIN. 4-1/2" THICK STEEL-REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) STRUCTURAL CONCRETE

2. **WALL ASSEMBLY** - THE 1 OR 2 HOUR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U400 OR V400 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STEEL FLOOR AND CEILING RUNNERS - FLOOR AND CEILING RUNNERS OF WALL ASSEMBLY SHALL CONSIST OF GALV STEEL CHANNELS SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2B) WITH MIN 1-1/4" LONG FLANGES. CEILING RUNNER SUECURED TO CONCRETE FLOOR SLAB WITH STEEL MASONRY ANCHORS SPACED MAX 24" OC.

A1. LIGHT GAUGE FRAMING* - CLIPPED CEILING RUNNER - AS AN ALTERNATIVE TO THE CEILING RUNNER IN ITEM 2A, CLIPPED RUNNER TO CONSIST OF GALV STEEL CHANNEL WITH CLIPS PREFORMED IN TRACK FLANGES WHICH POSITIVELY ENGAGE THE INSIDE FLANGE OF THE STELL STUDS (ITEM 2B). TRACK SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2B). TRACK FLANGES TO BE MIN 2-1/2" LONG. CLIPPED CEILING RUNNER SECURED TO CONCRETE FLOOR SLAB WITH STEEL MASONRY ANCHORS SPACED MAX 24" OC.

A2. LIGHT GAUGE FRAMING* - SLOTTED CEILING RUNNER - AS AN ALTERNATE TO THE CEILING RUNNER IN ITEM 2A, CEILING RUNNER TO CONSIST OF GALV STEEL CHANNEL WITH SLOTTED FLANGES SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2B). CEILING RUNNER SECURED TO CONCRETE FLOOR SLAB WITH STEEL MASONRY ANCHORS SPACES MAX 24" OC.

A3. LIGHT GAUGE FRAMING* - VERTICAL DEFLECTION CEILING RUNNER - AS AN ALTERNATE TO THE CEILING RUNNER IN ITEM 2A, VERTICAL DEFLECTION CEILING RUNNER TO CONSIST OF GALV. STEEL CHANNEL WITH SLOTTED VERTICAL DEFLECTION CLIPS MECHANICALLY FASTENED WITHIN RUNNER. SLOTTED CLIP PROVIDED WITH STEP BUSSINGS FOR PERMANENT FASTENING OF STEEL STUDS. FLANGES SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2B). VERTICAL DEFLECTION CEILING RUNNER SECURED TO CONCRETE FLOOR SLAB WITH STEEL MASONRY ANCHORS SPACED MAX 24" OC.

A4. LIGHT GAUGE FRAMING* - NOTCHED CEILING RUNNER - AS AN ALTERNATE TO THE CEILING RUNNERS IN ITEMS 2A THROUGH 2-A3, NOTCHED CEILING RUNNERS TO CONSIST OF C-SHAPED GALV STEEL CHANNEL WITH NOTCHED RETURN FLANGES SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2B). NOTCHED CEILING RUNNER SECURED TO CONCRETE FLOOR SLAB WITH STEEL MASONRY ANCHORS SPACED MAX 24" OC.

B. STUDS - STEEL STUDS TO BE MIN 3-1/2" WIDE. STUDS CUT 1/2" TO 3/4" LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH BOTTOM NESTING IN AND RESTING ON FLOOR RUNNER AND WITH TO NESTING IN CEILING RUNNER WITHOUT ATTACHMENT. WHEN DEFLECTION CHANNEL (ITEM 3A) IS USED, STEEL STUDS ATTACHED TO CEILING RUNNER WITH SHEET METAL SCREWS LOCATED 1/2" BELOW THE BOTTOM OF THE DEFLECTION CHANNEL. WHEN SLOTTED CEILING RUNNER (ITEM 2A2) IS USED, STEEL STUDS SECURED TO SLOTTED CEILING RUNNER WITH No. 8 BY 1/2" LONG WAFER HEAD STEEL SCREWS AT MIDHEIGHT OF SLOT ON EACH SIDE OF WALL. WHEN VERTICAL DEFLECTION CEILING RUNNER (ITEM 2A3) IS USED, STEEL STUDS SECURED TO SLOTTED VERTICAL DEFLECTION CLIPS, THROUGH BUSHINGS, WITH STEEL SCREWS AT MIDHEIGHT OF EACH SLOT. STUD SACING NOT TO EXCEED 24" OC.

C. GYPSUM BOARD* - GYPSUM BOARD SHEETS INSTALLED TO A MIN. TOTAL THICKNESS OF 5/8" AND 1-1/4" ON EACH SIDE OF WALL FOR 1 AND 2-HR FIRE RATED ASSEMBLIES, RESPECTIVELY. WALL TO BE CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, EXCEPT THAT A NOM 3/4" GAP SHALL BE MAINTAINED BETWEEN THE TOP OF THE GYPSUM BOARD AND THE BOTTOM SURFACE OF THE FLOOR. IN ADDITION, THE TOP ROW OF SCREWS SHALL BE INSTALLED INTO THE STEEL STUDS 1/2" TO 1" BELOW THE BOTTOM EDGE OF THE CEILING RUNNER FLANGE.

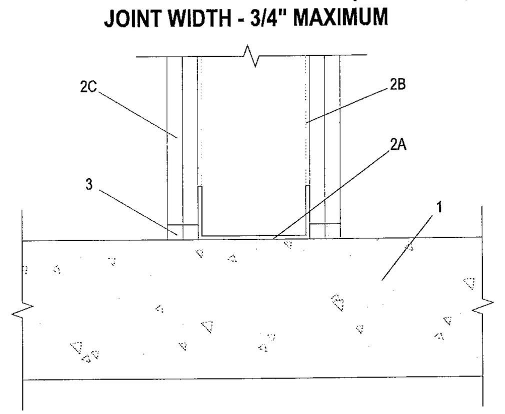
THE HOURLY FIRE RATING OF THE JOINT SYSTEM IS DEPENDANT ON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

3. JOINT SYSTEM - MAX SEPARATION BETWEEN BOTTOM OF FLOOR AND TOP OF WALL IS 3/4". THE JOINT SYSTEM IS DESIGNED TO ACCOMMODATE A MAX 25% COMPRESSION FROM ITS INSTALLED WIDTH. THE JOINT SYSTEM CONSISTS OF THE FOLLOWING:

A. FORMING MATERIAL - (OPTIONAL, NOT SHOWN) - IN 2-HR FIRE RATED WALL ASSEMBLIES, POLYETHYLENE BACKER ROD, MINERAL WOOL BATT INSULATION OR FIBERGLASS BATT INSULATION FRICTION FIT INTO JOINT OPENING.

B. FILL, VOID, OR CAVITY MATERIAL* - SEALANT - MIN 1/2" THICKNESS OF FILL MATERIAL APPLIED WITHIN JOINT OPENING ON BOTH SIDES OF WALL, FLUSH WITH BOTH SURFACES OF WALL. AS AN OPTION IN 1-HR FIRE RATED WALLS, BOND BREAKER TAPE APPLIED TO CEILING CHANNEL (ITEM 2A) PRIOR IN INSTALLATION OF FILL MATERIAL.

DESIGN No. BW-S-0002
ASSEMBLY RATINGS - 1 and 2 HR (SEE ITEM 1)
JOINT WIDTH - 3/4" MAXIMUM



1. FLOOR ASSEMBLY - MIN. 4-1/2" THICK STEEL-REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) STRUCTURAL CONCRETE

2. **WALL ASSEMBLY** - THE 1 OR 2 HOUR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U400 OR V400 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STEEL FLOOR RUNNERS - FLOOR RUNNERS OF WALL ASSEMBLY SHALL CONSIST OF MIN. No 25 GAUGE GALVANIZED STEEL CHANNELS SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2B). FLOOR RUNNERS TO BE PROVIDED WITH 1-1/4" FLANGES. RUNNERS SECURED WITH STEEL FASTENERS SPACED 12" OC.

B. STUDS - STEEL STUDS TO BE MIN 3-1/2" WIDE. STUDS CUT 1/2" TO 3/4" LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH BOTTOM NESTING IN, RESTING ON, AND FASTENED TO FLOOR RUNNER WITH SHEET METAL SCREWS. STUD SPACING NOT TO EXCEED 24" OC.

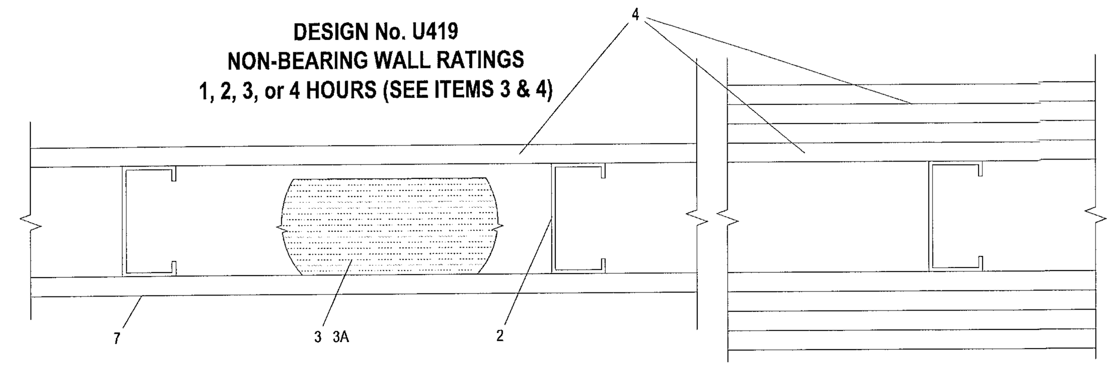
C. GYPSUM BOARD* - GYPSUM BOARD SHEETS INSTALLED TO A MIN. TOTAL THICKNESS OF 5/8" AND 1-1/4" ON EACH SIDE OF WALL FOR 1 OR 2-HR FIRE RATED ASSEMBLIES, RESPECTIVELY. WALL TO BE CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, EXCEPT THAT A MAX 3/4" GAP SHALL BE MAINTAINED BETWEEN THE BOTTOM OF GYPSUM BOARD AND TOP OF CONCRETE FLOOR. **THE HOURLY FIRE RATING OF THE JOINT SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL.**

3. FILL, VOID, OR CAVITY MATERIAL* SEALANT - MAX SEPARATION BETWEEN TOP OF FLOOR AND BOTTOM OF WALL IS 3/4". MIN. 5/8" THICKNESS OF FILL MATERIAL INSTALLED ON EACH SIDE OF THE WALL BETWEEN THE BOTTOM OF THE GYPSUM BOARD AND THE TOP OF THE CONCRETE FLOOR, FLUSH WITH EACH SURFACE OF THE WALL.

- HILTI CONSTRUCTION CHEMICALS, DIV OF
- HILTI INC - CP601S ELASTOMERIC FIRESTOP SEALANT, CP606 FLEXIBLE FIRESTOP SEALANT OR FS-ONE SEALANT

* Bearing the UL Classification Mark

DESIGN No. U419
NON-BEARING WALL RATINGS
1, 2, 3, or 4 HOURS (SEE ITEMS 3 & 4)



1. FLOOR AND CEILING RUNNERS - (NOT SHOWN) CHANNEL SHAPED, FABRICATED FROM MIN. 25 MSG CORROSION-PROTECTED STEEL MIN WIDTH TO ACCOMMODATE STUD SIZE, WITH MIN 1" LONG LEGS, ATTACHED TO FLOOR AND CEILING WITH FASTENERS 24" O.C. MAX

2. STEEL STUDS - CHANNEL SHAPED, FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED STEEL MIN WIDTH AS INDICATED UNDER ITEM 4, MIN 1-1/4" FLANGES AND 1/4" RETURN, SPACED A MAX OF 24" O.C. STUDS TO BE CUT 3/8" TO 3/4" LESS THAN ASSEMBLY HEIGHT

3. BATTS AND BLANKETS* - (REQUIRED AS INDICATED UNDER ITEM 4) - MINERAL WOOL BATTS, FRICTION FITTED BETWEEN STUDS AND RUNNERS. MIN NOM THICKNESS AS INDICATED UNDER ITEM 4. SEE **BATTS AND BLANKETS (BKNV OR BZJZ) CATEGORIES** FOR NAMES OF CLASSIFIED COMPANIES

3A. BATTS AND BLANKETS* - (OPTIONAL) - PLACED IN STUD CAVITY, ANY GLASS FIBER OR MINERAL WOOL INSULATION BEARING THE UL CLASSIFICATION MARKING AS TO SURFACE BURNING CLARACTERISTICS AND/OR FIRE RESISTANCE. SEE **BATTS AND BLANKETS (BKNV OR BZJZ) CATEGORIES** FOR NAMES OF CLASSIFIED COMPANIES

4. GYPSUM BOARD* - GYPSUM PANELS WITH BEVELED, SQUARE, OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. VERTICAL JOINTES IN ADJACENT LAYERS (MULTILAYER SYSTEM) STAGGERED ONE STUD CAVITY. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS ON OPPOSITE SIDES OF STUDS NEED NOT BE STAGGERED. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS IN ADJACENT LAYERS (MULTILAYER SYSTEMS) STAGGERED A MIN OF 12". THE THICKNESS AND NUMBER OF LAYERS FOR THE 1-HR, 2-HR, 3-HR, AND 4-HR RATINGS ARE AS FOLLOWS:

RATING	MIN STUD DEPTH	No. LAYERS AND THKNS OF PANEL	MIN THKNS OF INSULATION
1	3-1/2	1 LAYER, 5/8" THICK	OPTIONAL
1	2-1/2	1 LAYER, 1/2" THICK	1-1/2"
1	1-5/8	1 LAYER, 3/4" THICK	OPTIONAL
2	1-5/8	2 LAYERS, 1/2" THICK	OPTIONAL
2	1-5/8	2 LAYERS, 5/8" THICK	OPTIONAL
2	3-1/2	1 LAYER, 3/4" THICK	3"
3	1-5/8	3 LAYERS, 1/2" THICK	OPTIONAL
3	1-5/8	2 LAYERS, 3/4" THICK	OPTIONAL
3	1-5/8	3 LAYERS, 5/8" THICK	OPTIONAL
4	1-5/8	4 LAYERS, 5/8" THICK	OPTIONAL
4	1-5/8	4 LAYERS, 1/2" THICK	OPTIONAL
4	2-1/2	2 LAYERS, 3/4" THICK	2"

- CANADIAN GYPSUM COMPANY - 1/2" THICK TYPE C, IP-X2 OR IPC-AR OR WRC, 5/8" THICK TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, OR WRC; 3/4" THICK TYPE IP-X3, ULTRACODE, ULTRACODE SHC, OR ULTRACODE WRC
- UNITED STATES GYPSUM COMPANY - 1/2" THICK TYPE C, IP-X2, IPC-AR, OR WRC; 5/8" THICK TYPE SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4" THICK TYPE IP-X3, ULTRACODE, ULTRACODE SHC, OR ULTRACODE WRC
- USG MEXICO S A DE CV - 1/2" THICK TYPE C, IP-X2, IPC-AR, OR WRC; 5/8" THICK TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC; 3/4" THICK TYPE IP-X3, ULTRACODE, ULTRACODE SHC, OR ULTRACODE WRC

4A. GYPSUM BOARD* - (AS AN ALTERNATE TO ITEM 4) - 5/8" THICK, 2'-0" WIDE TONGUE AND GROOVE EDGE, APPLIED HORIZONTALLY AS THE OUTER LAYER TO ONE SIDE OF THE ASSEMBLY. SECURED AS DESCRIBED IN ITEM 5. JOINT COVERING (ITEM 7) NOT REQUIRED.

- CANADIAN GYPSUM COMPANY - TYPE SHX
- UNITED STATES GYPSUM CO - TYPE SHX
- USG MEXICO S A DE C V - TYPE SHX

5. FASTENERS - (NOT SHOWN) - TYPE S OR S-12 STEEL SCREWS USED TO ATTACH PANELS TO STUDS (ITEM 2) OR FURRING CHANNELS (ITEM 6). **SINGLE LAYER SYSTEM:** 1" LONG FOR 1/2" AND 5/8" THICK PANELS OR 1-1/4" LONG FOR 3/4" THICK PANELS, SPACED 8" O.C. WHEN PANELS ARE APPLIED HORIZONTALLY, OR 8" O.C. ALONG VERTICAL AND BOTTOM EDGES AND 12" O.C. IN THE FIELD WHEN PANELS ARE APPLIED VERTICALLY. **TWO LAYER SYSTEM:** FIRST LAYER - 1" LONG FOR 1/2" AND 5/8" THICK PANELS OR 1-1/4" LONG FOR 3/4" THICK PANELS, SPACED 16" O.C. SECOND LAYER - 1-5/8" LONG FOR 1/2" AND 5/8" THICK PANELS OR 2-1/4" LONG FOR 3/4" THICK PANELS, SPACED 16" O.C. WITH SCREWS OFFSET 8" FROM FIRST LAYER. **THREE-LAYER SYSTEM:** FIRST LAYER - 1" LONG FOR 1/2" AND 5/8" THICK PANELS SPACED 24" O.C. SECOND LAYER - 1-5/8" LONG FOR 1/2" AND 5/8" THICK PANELS SPACED 24" O.C. THIRD LAYER - 2-1/4" LONG FOR 1/2" OR 2-5/8" LONG FOR 5/8" PANELS, SPACED 12" O.C. SCREWS OFFSET MIN. 6" FROM LAYER BELOW. **FOUR LAYER SYSTEM:** FIRST LAYER - 1" LONG FOR 1/2" AND 5/8" THICK PANELS SPACED 24" O.C. SECOND LAYER - 1-5/8" LONG FOR 1/2" AND 5/8" THICK PANELS SPACED 24" O.C. THIRD LAYER - 2-1/4" LONG FOR 1/2" OR 2-5/8" LONG FOR 5/8" PANELS, SPACED 24" O.C. FOURTH LAYER - 2-5/8" LONG FOR 1/2" THICK PANELS OR 3" LONG FOR 5/8" THICK PANELS, SPACED 12" O.C. SCREWS OFFSET MIN. 6" FROM LAYER BELOW.

6. FURRING CHANNELS - (OPTIONAL, NOT SHOWN, FOR SINGLE OR DOUBLE LAYER SYSTEMS) - RESILIENT FURRING CHANNELS FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED STEEL, SPACED VERTICALLY A MAX OF 24" OC. FLANGE PORTION ATTACHED TO EACH INTERSECTING STUD WITH 1/2" LONG TYPE S-12 STEEL SCREWS. NOT FOR USE WITH ITEM 4A.

6A. STEEL FRAMING MEMBERS (NOT SHOWN)* - (OPTIONAL ON ONE OR BOTH SIDES, NOT SHOWN, FOR SINGLE OR DOUBLE LAYER SYSTEMS) - AS AN ALTERNATE TO ITEM 6, FURRING CHANNELS AND STEEL FRAMING MEMBERS AS DESCRIBED BELOW:

a. FURRING CHANNELS - FORMED OF No. 25 MSG GALVANIZED STEEL 2-3/8" WIDE BY 7/8" DEEP, SPACED MAX 24" OC PERPENDICULAR TO STUDS. CHANNLES SECURED TO STUDS AS DESCRIBED IN ITEM b. GYPSUM BOARD ATTACHED TO FURRING CHANNELS AS DESCRIBED IN ITEM 5. NOT FOR USE WITH ITEM 4A.

b. STEEL FRAMING MEMBERS* - USED TO ATTACH FURRING CHANNELS (ITEM 6a) TO STUDS (ITEM 2). CLIPS SPACED MAX 48" OC, AND SECURED TO STUDS WITH No 8 x 1-1/2" MIN SELF-DRILLING, S-12 STEEL SCREWS THROUGH THE CENTER GROMMET. FURRING CHANNELS ARE FRICTION FITTED INTO CLIPS

- PAC INTERNATIONAL INC - TYPE RSIC-1

7. JOINT TAPE AND COMPOUND - VINYL OR CASEIN, DRY OR PREMIXED JOINT COMPOND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS OR OUTER LAYER. PAPER TAPE, NOM 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS OF OUTER LAYER PANELS. PAPER TAPE AND JOINT COMPOUND MAY BE OMITTED WHEN GYPSUM PANELS ARE SUPPLIED WITH A SQUARE EDGE.

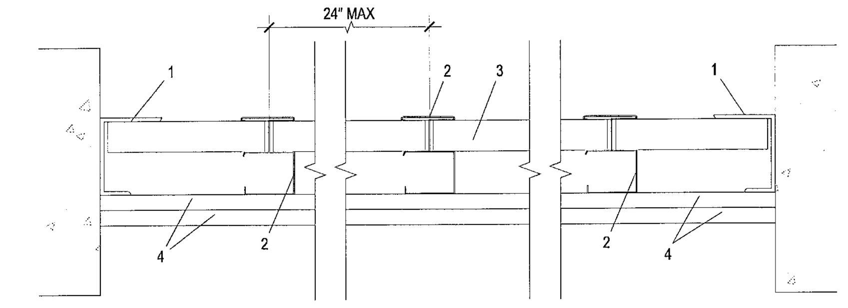
8. SIDING, BRICK, OR STUCCO - (OPTIONAL, NOT SHOWN) - ALUMINUM, VINYL, OR STEEL SIDING, BRICK VENEER, OR STUCCO, MEETING THE REQUIRMENTS OF LOCAL CODE AGENCIES, INSTALLED OVER GYPSUM PANELS. BRICK VENEER ATTACHED TO STUDS WITH CORRUGATED METAL WALL TIES ATTACHED TO EACH STUD WITH STEEL SCREWS, NOT MORE THAN EACH SIXTH COURSE OF BRICK.

9. CAULKING AND SEALANTS* - (OPTIONAL, NOT SHOWN) - A BEAD OF ACOUSTICAL SEALANT APPLIED AROUND THE PARTITION PERIMETER FOR SOUND CONTROL

- UNITED STATES GYPSUM CO - TYPE AS

* Bearing the UL Classification Mark

DESIGN No. U438
NON-BEARING WALL RATING - 2 HR.



1. FLOOR AND CEILING RUNNERS - "J" SHAPED, 2-1/2" WIDE WITH UNEQUAL LEGS ON 1" AND 2" FABRICATED FROM 24 MSG GALVANIZED STEEL. RUNNERS POSITIONED WITH SHORT LEG TOWARD FINISHED SIDE OF WALL. RUNNERS ATTACHED TO STRUCTURAL SUPPORTS WITH STEEL FASTENERS LOCATED NOT GREATER THAN 2" FROM ENDS AND NOT GREATER THAN 24" O.C.

2. STEEL STUDS - "C-H" SHAPED STUDS, 2-1/2" WIDE BY 1-1/2" DEEP, FABRICATED FROM 25 MSG GALVANIZED STEEL. CUT TO LENGTHS 3/8" TO 1/2" LESS THAN FLOOR TO CEILING HEIGHT AND SPACED 24" O.C.

2A. STEEL STUDS (NOT SHOWN) - "E" SHAPED STUDS INSTALLED IN PLACE OF "C-H" SHAPED STUDS (ITEM 2) TO SECURE THE CLOSURE LINER PANELS AT THE ENDS OF WALLS. FABRICATED FROM 25 MSG GALV STEEL, 2-1/2" WIDE, WITH ONE LEG 1" LONG AND TWO LEGS 3/4" LONG. SHORTER LEGS 1" APART TO ENGAGE GYPSUM LINER PANELS. CUT TO LENGTHS 3/8" LESS THAN FLOOR TO CEILING HEIGHT. SILL AND LINEL OF OPENING FORMED WITH "J"-SHAPED RUNNERS (ITEM 1) SECURED TO "E"-SHAPED STUDS WITH ANGLE CLIPS AND STEEL SCREWS.

3. GYPSUM BOARD* - 1" THICK GYPSUM WALLBOARD LINER PANELS, SUPPLIED IN NOMINAL 24" WIDTHS. PANELS CUT 1" LESS IN LENGTH THAN FLOOR TO CEILING HEIGHT. VERTICAL EDGES INTERTED IN "H" SHAPED SECTION OF "C-H" STUDS. FREE EDGE OF END PANELS ATTACHED TO LONG LEG OF "J" RUNNERS WITH 1-5/8" LONG TYPE S STEEL SCREWS SPACED NOT GREATER THAN 12" O.C.

- CANIDIAN GYPSUM COMPANY - TYPE SLX
- UNITED STATES GYPSUM COMPANY - TYPE SLX
- USG MEXICO S A DE C V - TYPE SLX

4. GYPSUM BOARD* - 1/2" THICK, 4 FT. WIDE WALLBOARD APPLIED VERTICALLY IN TWO LAYERS. INNER OR BASE LAYER ATTACHED TO STUDS WITH 1" LONG, TYPE "S" STEEL SCREWS SPACE 24" O.C. ALONG THE EDGES AND IN THE FIELD OF THE BOARDS. OUTER OR FACE LAYER ATTACHED TO STUDS AND "J"-RUNNERS WITH 1-5/8" LONG TYPE "S" STEEL SCREWS SPACES 12" ALONG THE EDGES AND IN THE FIELD OF THE BOARDS, STAGGERED FROM SCREWS IN INNER LAYER. JOINTS BETWEEN INNER AND OUTER LAYER STAGGERED.

- AMERICAN GYPSUM CO - TYPE AG-C
- BPB AMERICA INC - TYPE FRPC, PROROC TYPE C
- BPB CANADA INC - PRORDC TYPE C
- CANADIAN GYPSUM COMPANY - TYPES C, IP-X2, WRC
- GEORGIA-PACIFIC CORP - TYPES 5
- LAFARGE NORTH AMERICA INC - TYPES LGFC-C. LGFC-C/A
- NATIONAL GYPSUM CO - TYPES FSK-C, FSW-C, FSMR-C
- PABCO GYPSUM - TYPES PG-C
- STANDARD GYPSUM LLC - TYPE SG-C
- TEMPLE-INLAND FOREST PRODUCTS CORP - TYPE TG-C
- UNITED STATES GYPSUM COMPANY - TYPE C, IP-X2, WRC
- USG MEXICO S A DE CV - TYPE C, IP-X2, WRC

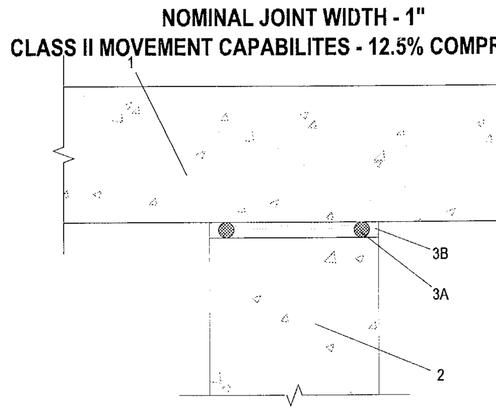
4A. GYPSUM BOARD* - (AS AN ALTERNATE TO ITEM 4) - 5/8" THICK, 4'-0" WIDE. ATTACHED AS DESCRIBED IN ITEM 4.

- CANADIAN GYPSUM CO - TYPES AR, IP-AR, IP-X1, SCX, WRX
- UNITED STATES GYPSUM CO - TYPES AR, FRX-G, IP-AR, IP-X1, SCX, WRX
- USG MEXICO S A DE CV - TYPES AR, IP-AR, IP-X1, SCX, WRX

5. BATTS AND BLANKETS* (OPTIONAL, NOT SHOWN) - MINERAL WOOL OR GLASS FIBER BATTS PARTIALLY OR COMPLETELY FILLING STUD CAVITY. ANY MINERAL WOOL OR GLASS FIBER BATT MATERIAL BEARING THE UL CLASSIFICATION MARKING AS TO FIRE RESISTANCE.

* Bearing the UL Classification Mark

DESIGN No. HW-D-0189
ASSEMBLY RATINGS - 2 HR
NOMINAL JOINT WIDTH - 1"
CLASS II MOVEMENT CAPABILITES - 12.5% COMPRESSION



1. FLOOR ASSEMBLY - MIN. 4-1/2" THICK STEEL-REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) STRUCTURAL CONCRETE

2. WALL ASSEMBLY - MIN 4-1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT STRUCTURAL CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS.

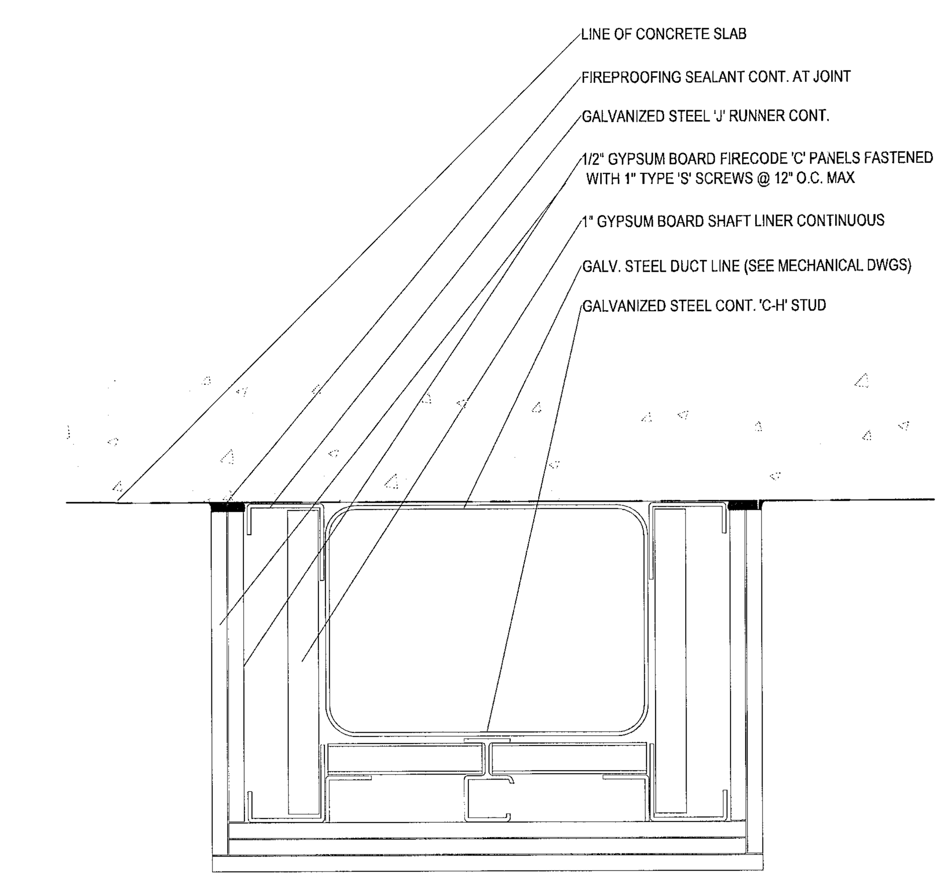
3. JOINT SYSTEM - MAX SEPARATION BETWEEN BOTTOM OF FLOOR AND TOP OF WALL (AT TIME OF INSTALLATION OF JOINT SYSTEM) IS 1". THE JOINT SYSTEM IS DESIGNED TO ACCOMMODATE A MAX 12.5% COMPRESSION OR EXTENSION FROM IT'S INSTALLED WIDTH. THE JOINT SYSTEM WILL CONSIST OF THE FOLLOWING:

A. PACKING MATERIAL - (OPTIONAL) OPEN OR CLOSED CELL POLYURETHANE FOAM BACKER ROD USED AS A FORM TO PREVENT THE LEAKAGE OF FILL MATERIAL. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF THE WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL, VOID OR CAVITY MATERIAL* - SEALANT - FILL MATERIAL APPLIED WITHIN THE JOINT, FLUSH WITH BOTH SURFACES OF THE WALL. THE THICKNESS OF FILL MATERIAL WITHIN THE JOINT IS DEPENDENT UPON THE TYPE OF FILL MATERIAL USED. IF FS 900+ SEALANT IS USED, THE MIN FILL MATERIAL THICKNESS IS 1/2". IF FS 1900 SEALANT IS USED, THE MIN FILL MATERIAL THICKNESS IS 5/8".
- W.R. GRACE AND CO - CONN - FS 900+ OR FS 1900 SEALANT

* Bearing the UL Classification Mark

DESIGN No. WHI 495 PSH0154/0167
HORIZONTAL SHAFT DETAIL - 2 HR.



Fire Resistance Ratings - ANSI/UL 263

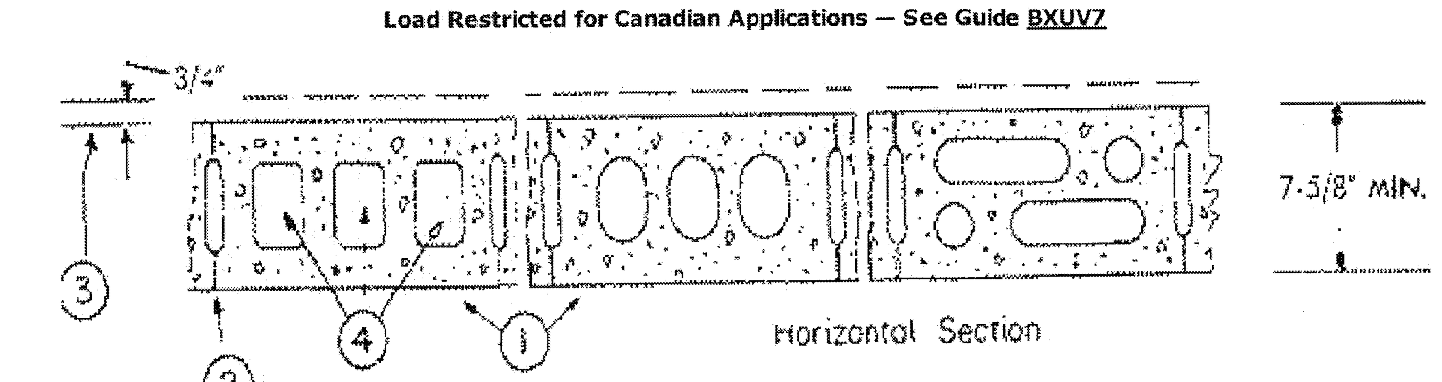
Design No. U905

September 30, 2010

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

Load Restricted for Canadian Applications — See Guide BXUV7



1. **Concrete Blocks*** — Various designs. Classification D-2 (2 hr).

See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

THE DOW CHEMICAL CO — Type Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel and Thermax Heavy Duty Plus (HDP)

REVISIONS / SUBMISSIONS
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BAMBOO GROUP INC.
550 WASHINGTON AVENUE
MIAMI BEACH, FLORIDA

FIRE RATED PARTITION
SECTIONS and DETAILS

SEP 09 2011
Lic. # AR0012578

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INTERIOR DESIGN
PLANNING
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K O B I K A R P

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

A-8.21

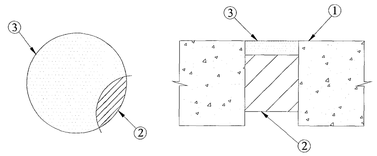
CAJ 0011

2 Hour Fire Rated Through Penetration Firestop for Blank Openings through Concrete Floors or Walls using FYRE-SIL and FYRE-SIL S/L.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hour
T-Rating = 1-1/2 & 2 Hour



① Pre-Rated Concrete Floor or Wall Assembly = Min. 4-1/2" thickness
Max. Diameter of Opening = 24".

② Packing Material - Min. 3-1/2" thickness of mineral wool insulation (min. 5 .0 pcf) firmly packed into the opening as a permanent form.

③ FYRE-SIL or FYRE-SIL S/L - MIn. 1/2" thickness of sealant applied within opening, flush with top surface of floor or both surfaces of wall assembly.

NOTE: If FYRE-SIL is used, the T-Rating = 1-1/2 Hr.
If FYRE-SIL S/L is used, the T-Rating = 2 Hr.

NOTE: Apply FYRE-SIL S/L to Floor Applications Only.

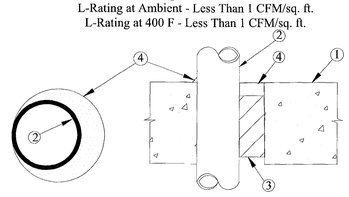
CAJ 1205

2 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Concrete Floors or Block Walls using TREMstop Actylic.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 0 Hr.
L-Rating at Ambient - Less Than 1 CFM/sq. ft.
L-Rating at 400 F - Less Than 1 CFM/sq. ft.



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness.
The annular space range shall be min. 0" to max. 7/8" for this firestop system.

② Metallic Pipe: > Steel Pipe - 12" diam. (or smaller) sch. 40 (or heavier) steel
> Conduit - Nom. 4" diam. (or smaller) steel conduit, or EMT.
> Copper Pipe - 3" diam. (or smaller) Regular (or heavier) copper.
> Cast Iron Pipe - 12" diam. (or smaller) cast or ductile iron.
> Copper Tubing - 3" diam. (or smaller) Type L (or heavier) copper.

③ Packing Material - Min. 4" thickness of mineral wool (min. 4.0 pcf) insulation, firmly packed into opening as a permanent form.

④ TREMstop Acrylic - Min. 1/2" sealant applied within annulus, and a minimum 1/4" sealant applied at point contact; at the floor surface for floors,

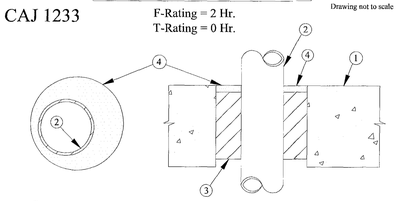
CAJ 1233

2 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Concrete Floors or Walls using FYRE-SHIELD.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 0 Hr.



① Pre-Rated Concrete Floors or Block Walls = Min. 3" thick concrete floor assembly.
Min. 3-1/2" thick concrete wall assembly.

② Metallic Pipe: A) Steel Pipe- 8" diam. (or smaller) Sch. 40 (or heavier) steel pipe.
B) Iron Pipe- 8" diam. (or smaller) cast or ductile iron pipe.
C) Conduit - 4" diam. (or smaller) EMT or steel conduit.
D) Copper Tubing - 4" diam. (or smaller) Type L (or heavier) copper tubing.
E) Copper Pipe- 4" diam. (or smaller) Regular (or heaveir) copper pipe.
The annular space be min. 1/2" to max. 7/8".

③ Packing Material - Min. 2-1/2" thickness of mineral wool (min. 4.0 pcf) insulation, firmly packed into opening as a permanent form.

④ FYRE-SHIELD- Min. 1/2" thickness of sealant applied within annulus, flush with top surface of floor or both surfaces of wall assembly.

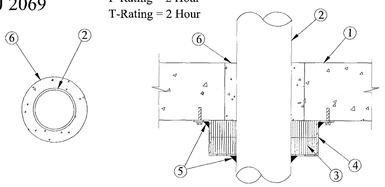
CAJ 2069

2 Hour Fire Rated Through Penetration Firestop for Plastic Pipe through Concrete Floors or Walls using TREMstop WS and TREMstop MCR.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hour
T-Rating = 2 Hour



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness

② Plastic Pipe - 10" diam. (or smaller) Sch. 40 PVC pipe for use in closed or open piping systems. A max. annular space of 5/8" is required.

③ TREMstop WS - Intumescent wrap strips, continuously wrapped around outer circumference of the pipe in two stacks of twelve wraps.

④ TREMstop MCR - Prefabricated steel collar wrapped over the wrap strips (Item 3) and mechanically fastened to the floor or wall assembly.

⑤ TREMstop WBM or FYRE-SIL - Min. 1/4" bead of sealant applied at the interface of the concrete slab and steel collar, and at the interface of the steel collar and pipe.

⑥ Mortar - Min. 4-1/2" thickness of mortar or hydraulic cement applied within annulus, flush with both surfaces of floor or wall assembly.

NOTE: In floors, apply below the concrete slab. In walls, apply to each side of assembly.

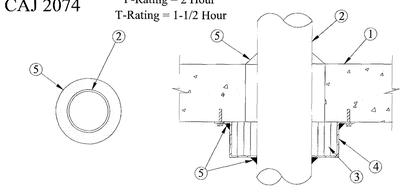
CAJ 2074

2 Hour Fire Rated Through Penetration Firestop for Plastic Pipe through Concrete Floors or Walls using TREMstop WS and TREMstop MCR.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hour
T-Rating = 1-1/2 Hour



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness

② Plastic Pipe - 2" diam. (or smaller) Sch. 40 PVC pipe for use in closed or open piping systems. A nom. annular space of 1/8" is required within the firestop system.

③ TREMstop WS - Intumescent wrap strips, continuously wrapped around outer circumference of the pipe four times.

④ TREMstop MCR - Prefabricated steel collar wrapped over the wrap strips (Item 3) and mechanically fastened to the floor or wall assembly.

⑤ FYRE-SIL - Min. 1/4" bead of sealant applied at the interface of the concrete slab and steel collar, and at the interface of the steel collar and pipe. An additional 1/4" thick bead of caulk to be applied around the the pipe at the interface with the top of the concrete slab.

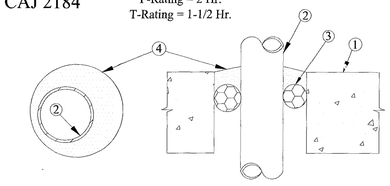
CAJ 2184

2 Hour Fire Rated Through Penetration Firestop for Single Plastic Pipe through Concrete Floors or Walls using TREMstop IA.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 1-1/2 Hr.



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness

② Plastic Pipe - A) Nom. 2" diam. (or smaller) Sch. 40 PVC pipe.
B) Nom. 2" diam. (or smaller) SDR17 CPVC pipe.
NOTE: For use in closed (process or supply) piping systems.

③ Forming Material - Foam backer rod firmly packed into the opening as a permanent form.

④ TREMstop IA - Sealant applied within opening, flush with top surface of floor or both surfaces of wall assembly as shown in table below. When required, apply additional sealant such that a min. 1/8" crown is formed around the penetrating item.

Max. Pipe Diameter, in.	Annular Space, in.	Min. Sealant Thickness, in.	Sealant Crown Required
1-1/2	3/8 to 3/4	1/2	Yes
2	1/4 to 3/8	1	No

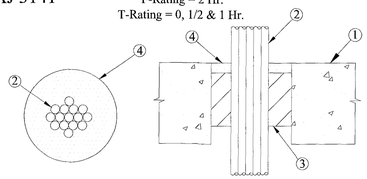
CAJ 3141

2 Hour Fire Rated Through Penetration Firestop for Multiple Cables through Concrete Floors or Walls using TREMstop IA.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 0, 1/2 & 1 Hr.



① Pre-Rated Concrete Floor or Block Wall Assembly - Min. 4-1/2" Thickness.
Maximum diameter of opening = 6".

② Cables - Any combination of the following types and sizes may be used.
A) Max 1/C - 500 kmil cable with PVC insulation and jacket
B) Max 1/C - 350 kemil cable with XLPE insulation and jacket
C) Max 3/C - No. 6 cable with PVC insulation and jacket
D) Max 300 pair No. 24 AWG copper conductor telephone cables
E) Max 24 fibers - 62.5/125um dielectric fiber optic cable with HDPE jacket
NOTE: T-Rating is 0 Hr for Cables A & B, 1/2 Hr. for Cables C & D and 1 Hr for Cable E.

③ Packing Material - Min. 4" thickness of mineral wool insulation (min. 4.0 pcf) firmly packed into opening as a permanent form.

④ TREMstop IA - Min. 1/2" thickness of sealant applied within opening, flush with top surface of floor or both surfaces of wall assembly.

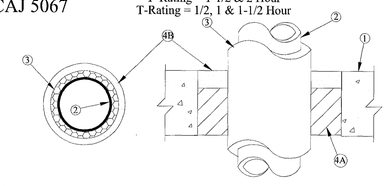
CAJ 5067

1-1/2 & 2 Hour Fire Rated Through Penetration Firestop for Insulated Metal Pipe through Concrete Floors or Walls using FYRE-SIL and FYRE-SIL S/L.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 1-1/2 & 2 Hour
T-Rating = 1/2, 1 & 1-1/2 Hour



① Pre-Rated Concrete Floor or Wall Assembly = Min. 4-1/2" thickness

② Metallic Pipe: > Steel Pipe - 10" diam. (or smaller) Sch.10 (or heavier) steel.
> Copper Pipe - 4" diam. (or smaller) Regular (or heavier) copper.
> Copper Tubing - 4" diam. (or smaller) Type M (or heavier) copper tubing.

③ Pipe Covering - Fiberglass insulation, see table below for thickness and annular space.

Max. Pipe Diam., in.	Pipe Covering Thickness, in.	Annular Space in.	Packing Material Thickness, in.	Min. Sealant Thickness, in.	F-Rating Hr.	T-Rating Hr.
3	1	1/4 to 1-3/8	3-1/2	1/2	1-1/2	1/2
3	1	1/4 to 5/8	3-1/2	1/4	1-1/2	1/2
4	1/2	1/4 to 5/8	4-1/4	1/4	2	1/2
10	1	1/2 to 1	4-1/4	1/4	2	1
10	2	1/2 to 3/4	4-1/4	1/4	1-1/2	1-1/2

④A Packing Material - Mineral wool insulation (min. 4.0 pcf) firmly packed into opening to the minimum required thickness in the table above.

④B FYRE-SIL and FYRE-SIL S/L - Min. thickness of sealant as specified in the table above, applied within opening flush with top surface of floor or both surfaces of wall.

NOTE: Apply FYRE-SIL S/L to Floor Applications Only.

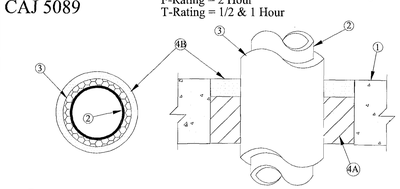
CAJ 5089

2 Hour Fire Rated Through Penetration Firestop for Insulated Metal Pipe through Concrete Floors or Walls using TREMstop Acrylic.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hour
T-Rating = 1/2 & 1 Hour



① Pre-Rated Concrete Floor or Wall Assembly = Min. 4-1/2" thickness

② Metallic Pipe: > Steel Pipe - 8" diam. (or smaller) Sch.40 (or heavier) steel.
> Iron Pipe - 8" diam. (or smaller) cast or ductile iron.
> Copper Pipe - 4" diam. (or smaller) Regular (or heavier) copper.
> Copper Tubing - 4" diam. (or smaller) Type L (or heavier) copper tubing.

③ Pipe Covering - Nom. 1" thick (or less) fiberglass insulation.

④ Firestop Treatment:

Pipe Type	Annular Space, in.	T Rating, H
Steel Pipe	1/2 to 1	1
Iron Pipe	1/2 to 1	1
Copper Pipe	3/8 to 1-1/2	1/2
Copper Tube	3/8 to 1-1/2	1/2

④A Packing Material - Min. 4" thickness of mineral wool insulation (min. 4.0 pcf) firmly packed into opening as a permanent form.

④B TREMstop Acrylic - Min. 1/2" thickness of sealant applied within opening, flush with top of floor or both sides of wall.

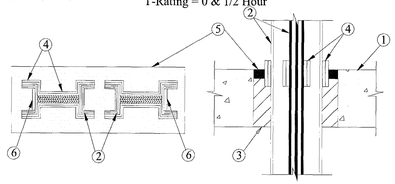
CAJ 6007

2 and 3 Hour Fire Rated Through Penetration Firestop for Bus Ducts through Concrete Floors and Walls using FYRE-SIL or FYRE-SIL S/L and TREMstop WS.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 & 3 Hour
T-Rating = 0 & 1/2 Hour



① Pre-Rated Concrete Floor or Wall Assembly = Min. 4-1/2" thickness
Max. Diameter of Opening = 330 sq. in. with a max. dimension of 30".

② Busway - Nom. 23" wide (or smaller) by 4.5" deep "1" shaped aluminum enclosure.

③ Packing Material - Min. 4" thickness of mineral wool insulation (min. 4.0 pcf) installed into opening as a permanent form.

④ TREMstop WS - Intumescent wrap strips are installed in several pieces to cover entire perimeter and center portion of the penetrating item in two layers.
NOTE: When TREMstop WS is not installed, F-Rating = 2 Hr. and T-Rating = 0 Hr.

⑤ FYRE-SIL or FYRE-SIL S/L - Min. 1/2" thickness of sealant applied within opening, flush with top surface of floor or both surfaces of wall assembly.
NOTE: Install FYRE-SIL S/L in Floor Applications Only.

⑥ FYRE-SIL - Min. 1/4" sealant applied at the ends of the busway over the top of the wrap strips.

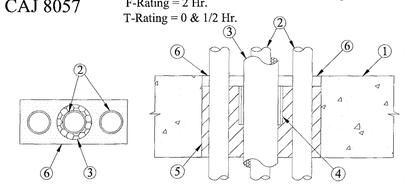
CAJ 8057

2 Hour Fire Rated Through Penetration Firestop for Mixed Items through Concrete Floors or Walls using FYRE-SIL and TREMstop WS.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 0 & 1/2 Hr.



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness
Max. Area of Opening = 60 sq. in., with a Max. Dimension of 12".

② Metallic Pipe: A) Steel Pipe - 3" diam. (or smaller) Sch. 40 (or heavier) steel pipe.
B) Conduit - 3" diam. (or smaller) EMT or steel conduit.
C) Copper Tubing - 3" diam. (or smaller) Type L (or heavier) copper tubing.
D) Copper Pipe - 3" diam. (or smaller) Regular (or heavier) copper pipe.
E) Iron Pipe - 3" diam. (or smaller) cast or ductile iron pipe.
The annular space between pipes and openings is min. 1/4" to max. 15/16".

③ Pipe Covering - Nom. 3/4" thickness of flexible foam (AB/PVC) pipe insulation.

④ TREMstop WS - Intumescent wrap strips wrapped around pipe covering (item 3) two times.

⑤ Packing Material - Min. 4" thickness of mineral wool insulation (min. 4.0 pcf) firmly packed into the opening as a permanent form.

⑥ FYRE-SIL - Min. 1/2" thickness of sealant applied within opening, flush with top surface of floor or both sides of wall assembly.

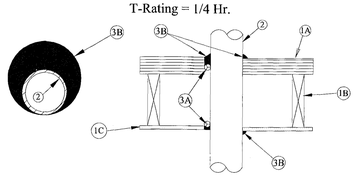
FC 1050

1 Hour Fire Rated Through Penetration Firestop for Single Metallic Pipe through Wood Floor/Gypsum Ceiling Assemblies using TREMstop IA.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 1 Hr.
T-Rating = 1/4 Hr.



① Pre-rated Floor/Ceiling Assembly
A) Flooring system - 5/8" thick plywood/2" by 4" continuous wood decking.
B) Wood Joist - Nom. 2" by 10" lumber joist
C) Ceiling system - 1 layer of gypsum wallboard, per U.L. design.

② Metallic Pipe - > Steel Pipe - 4" diam. (or smaller) Sch. 40 (or heavier) steel pipe.
> Iron Pipe - 4" diam. (or smaller) cast or ductile iron pipe.
> Conduit - 4" diam. (or smaller) steel EMT or steel conduit.
> Copper Tubing - 4" diam. (or smaller) Type L (or heavier) copper tubing.
> Copper Pipe - 4" diam. (or smaller) Regular (or heavier) copper pipe.
Annular space from min. 0" to max. 7/8".

③A Packing Material (optional) - Foam backer rod packed into opening as a permanent form.

③B TREMstop IA - Min 1/2" thickness of fill material applied within annulus, flush with top of floor and bottom of ceiling assemblies. Additional sealant to be applied such that a min. 1/2" crown is formed around the penetrating item.

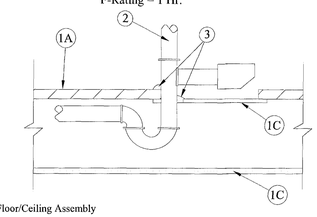
FC 2144

1 Hour Fire Rated Through Penetration Firestop for Single Plastic Pipe through Wood Floor/Gypsum Ceiling Assemblies using TREMstop IA.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

T-Rating = 1 Hr.
F-Rating = 1 Hr.



① Pre-rated Floor/Ceiling Assembly
A) Flooring System- Lumber or plywood subfloor topped with finish floor.
B) Wood Joists- Nom. 10" deep (or deeper) lumber, steel, or combination joists or trusses.
C) Ceiling System- 1 layer of 5/8" gypsum wallboard per U.L. design.

② Plastic Pipe With Drain Piping. Annular space from min. 0" to max. 1".
A) Nom. 1-1/2" diam. (or smaller) solid or cellular core PVC pipe for use in open and closed systems.
B) Nom. 1-1/2" diam. (or smaller) solid or cellular core ABS pipe for use in open and closed systems.

③ TREMstop IA - A min. 1/2" thickness of sealant applied within annulus, flush with top surface of the floor. Min. 1/4" cant bead applied at point contact and drain pipe penetration.

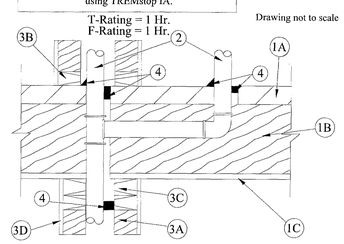
FC 2145

1 Hour Fire Rated Through Penetration Firestop for Single Plastic Pipe through Wood Floor/Gypsum Ceiling Assemblies using TREMstop IA.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

T-Rating = 1 Hr.
F-Rating = 1 Hr.



① Pre-rated Floor/Ceiling Assembly
A) Flooring system - Lumber or plywood subfloor topped with finish floor.
B) Wood Joists- Nom. 10" deep (or deeper) lumber, steel, or combination joists or trusses.
C) Ceiling system - 1 layer of 5/8" gypsum wallboard per U.L. design.

② Plastic Pipe - Pipe with sanitary tee and drain piping. Annular space from min. 0" to max. 1".
A) Nom. 1-1/2" diam. (or smaller) solid or cellular core PVC pipe for use in open and closed systems.
B) Nom. 1-1/2" diam. (or smaller) solid or cellular core ABS pipe for use in open and closed systems.

③ Chase Wall- Through penetrants shall be routed through a 1 hr. rated gypsum wallboard chase wall.
A) Studs- Nom. 2" x 6" or double 2"x 4" lumber studs.
B) Sole Plate- Nom. 2" x 6" or parallel 2"x 4" lumber plates, tightly butted.
C) Top Plate- Two nom. 2" x 6" or two sets of parallel 2"x 4" lumber plates, tightly butted.
D) Wallboard- U.L. rated gypsum wallboard.

④ TREMstop IA - A min. 1/2" thickness of sealant applied within annulus, flush with top surface of the floor. Min. 1/4" cant bead applied at point contact and drain pipe penetration. Min. 1/4" material applied within annulus flush with bottom surface of top plate.

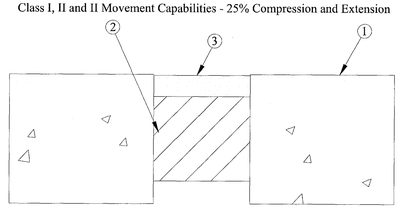
FFD 0009

2 Hour Fire Rated Joints in Concrete Floors using DYMERIC 511.

TREMCO 3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

Class I, II and II Movement Capabilities - 25% Compression and Extension



① Pre-Rated Concrete Floors - Minimum 4-1/2" thickness.
Max. Joint Width = 2".

② Packing Material - Min. 4" thickness of mineral wool insulation (min. 4.0 pcf) firmly packed into the opening as a permanent form.

③ DYMERIC 511 - Min. 1/2" thickness of sealant applied within opening, flush with top of floor.

REVISIONS / SUBMISSIONS

1151

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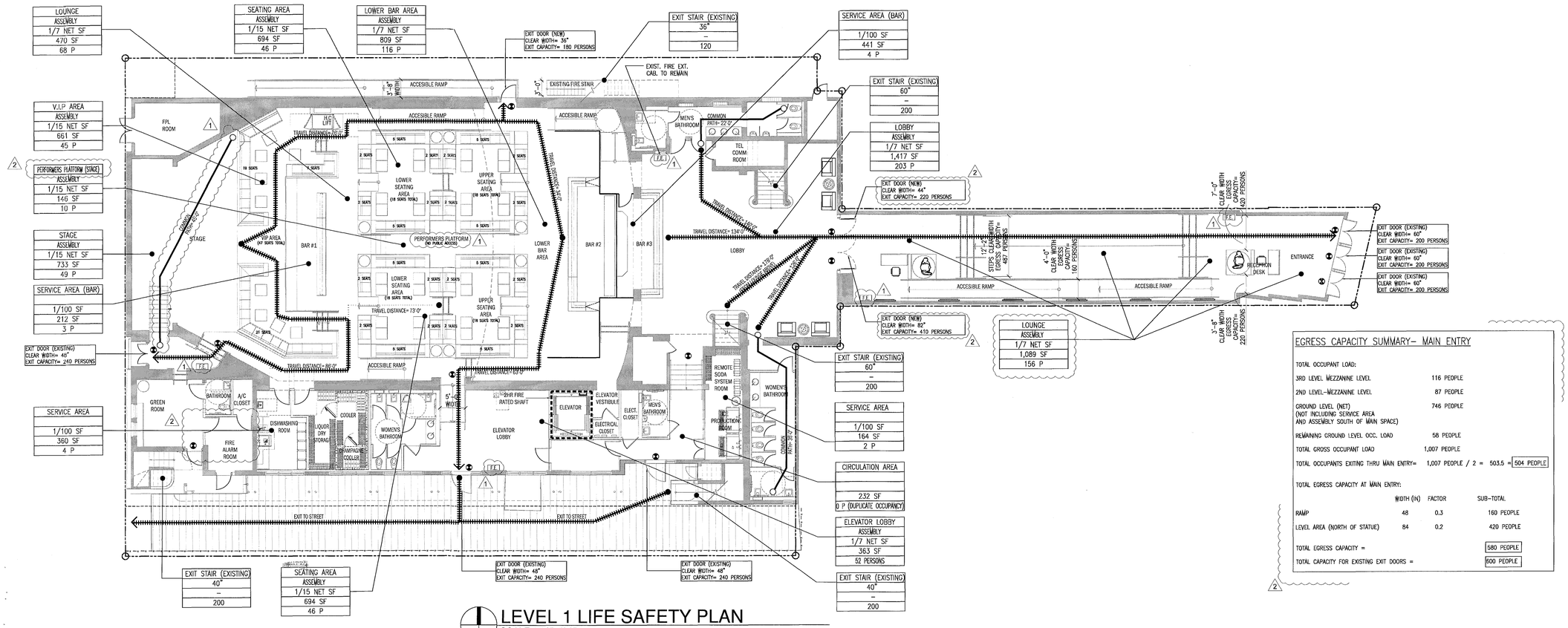

LEVEL 1 LIFE SAFETY PLAN

SCALE 3/32"=1'-0"

EGRESS CAPACITY SUMMARY– MAIN ENTRY

TOTAL OCCUPANT LOAD:

3RD LEVEL MEZZANINE LEVEL	116 PEOPLE
2ND LEVEL–MEZZANINE LEVEL	87 PEOPLE
GROUND LEVEL (NET) (NOT INCLUDING SERVICE AREA AND ASSEMBLY SOUTH OF MAIN SPACE)	746 PEOPLE
REMAINING GROUND LEVEL OCC. LOAD	58 PEOPLE
TOTAL GROSS OCCUPANT LOAD	1,007 PEOPLE

TOTAL OCCUPANTS EXITING THRU MAIN ENTRY= 1,007 PEOPLE / 2 = 503.5 = 504 PEOPLE

TOTAL EGRESS CAPACITY AT MAIN ENTRY:

	WIDTH (IN)	FACTOR	SUB–TOTAL
RAMP	48	0.3	160 PEOPLE
LEVEL AREA (NORTH OF STATUE)	84	0.2	420 PEOPLE
TOTAL EGRESS CAPACITY =			580 PEOPLE
TOTAL CAPACITY FOR EXISTING EXIT DOORS =			500 PEOPLE

OCCUPANT LOAD CALCULATION

(F.B.C. TABLE 1004.1.1)

OCCUPANCY	OCCUPANCY LOAD	AREA	TOTAL
SERVICE AREA	1 PERSON / 100 SF	1,177 SF	13 PERSONS
STAGE/ PERFORMERS PLATFORM	1 PERSON / 15 NET SF	879 SF	59 PERSONS
ASSEMBLY	1 PERSON / 7 NET SF	4,148 SF	595 PERSONS
ASSEMBLY	1 PERSON / 15 NET SF	2,049 SF	137 PERSONS
BAR #1	SEE CALCULATIONS		13 PERSONS
BAR #2	SEE CALCULATIONS		20 PERSONS
BAR #3	SEE CALCULATIONS		18 PERSONS
TOTAL:		8,253 SF	855PERSONS

BAR #1
LENGTH OF COUNTER= 22.67'
22.67 X 4 = 90.68
90.68 / 7 = 13 PERSONS

BAR #2
LENGTH OF COUNTER= 34'
34 X 4 = 136
136 / 7 = 20 PERSONS

BAR #3
LENGTH OF COUNTER= 30.67'
30.67 X 4 = 122.68
122.68 / 7 = 18 PERSONS

LINE TYPE LEGEND

- 1 HOUR FIRE WALL
- 2 HOUR FIRE WALL
- 3 HOUR FIRE WALL
- COMMON PATH OF TRAVEL
- DIRECTION OF EGRESS–TRAVEL DISTANCE
- F.E. — FIRE EXTINGUISHER CABINETS. SEE DETAILS ON SHEET A–8.13
- EXIT SIGN

EXIT NUMBER
TOTAL EXIT CLEAR WIDTH
OCCUPANT LOAD USED
MAX CAPACITY

ROOM
OCCUPANCY
OCCUPANT LOAD FACTOR
AREA IN SF
OCCUPANT LOAD

CONSTRUCTION TYPE

F.B.C. TABLE 503

OCCUPANCY CLASSIFICATION = ASSEMBLY (A–2)

CONSTRUCTION TYPE = TYPE II (A)

ALLOWABLE HEIGHT AND BUILDING AREAS
TABLE 503 F.B.C

	TYPE II (A)	
	PERMITTED	PROVIDED
MAX. AREA PER FLOOR	15,500	12,115 SF
MAX. HEIGHT (# OF STORIES)	4 *	4

* ALLOWABLE HEIGHT INCREASE AS PER SECTION 504.2. FBC. BUILDING IS EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEM

GENERAL NOTES

1. THE OCCUPANY AND TYPE OF CONSTRUCTION FOR THE PROPOSED BUILDINGS ARE AS FOLLOWS:

ASSEMBLY (A–2) TYPE IIA

2. MAXIMUM ELEVATION CHANGE AT ALL BUILDING ENTRANCE DOORS (INCLUDING THRESHOLDS) SHALL BE EQUAL TO OR LESS THAN 1/2".

3. PROVIDE ONE–ABC TYPE, "2–A" RATED FIRE EXTINGUISHER FOR EACH 2,500 SQ. FT. MAXIMUM 75 FT. OF TRAVEL. TOP OF EXTINGUISHER NOT TO EXCEED 5 FOOT ABOVE FINISH FLOOR.

4. THIS PROPOSED BUILDING IS TO BE EQUIPPED WITH A COMPLETE SPRINKLER SYSTEM AND FIRE ALARM, REFER TO FIRE PROTECTION SHEETS. ALL EXISTING FIRE PROTECTION SYSTEM TO REMAIN.

ASSEMBLY COMPONENT NOTES:

1. FULLY SPRINKLERED

2. EGRESS DOORS MUST BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

3. DOORS MUST BE OPENABLE WITH NO MORE THAN ONE RELEASING OPERATION. SUCH MECHANISM FOR ANY LATCH SHALL BE LOCATED 34" MIN AND 48" MAX ABOVE FINISHED FLOOR.

4. ILLUMINATED AND MARKED MEANS OF EGRESS

5. EMERGENCY LIGHTING PROVIDED

6. INITIATION PROVIDED VIA APPROVED AUTOMATIC SPRINKLER SYSTEM THAT PROVIDES FIRE DETECTION AND PROTECTION THROUGHOUT BUILDING

7. AUDIBLE ALARM IS AUTOMATIC

SMOKE DETECTION

1. EVERY MECHANICAL EQUIPMENT, ELECTRICAL, TRANSFORMER, TELEPHONE EQUIPMENT, ELEVATOR MACHINE, OR SIMILAR ROOM (ANY GENERALLY UNOCCUPIED AREA THAT CAN PROVIDE AN IGNITION SOURCE)

2. EVERY ELEVATOR LOBBY

3. EACH HVAC MAIN RETURN AND EXHAUST AIR PLENUM

4. OUTSIDE (WITHIN 10'–0") OF EACH STAIR/EXIT DOOR ON EACH FLOOR

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS F.B.C. TABLE 601

BUILDING ELEMENT	TYPE II (A)
STRUCTURAL FRAME	1 HOUR
BEARING EXTERIOR & INTERIOR WALLS	1 HOUR
NONBEARING INTERIOR WALLS & PARTITIONS	0 HOUR
FLOORS CONSTRUCTION	1 HOUR
ROOF STRUCTURE	1 HOUR

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE F.B.C. TABLE 602

FIRE SEPARATION DISTANCE (FT)	TYPE OF CONSTRUCTION	GROUP A
< 5	II–A	1
≥ 5 < 10	II–A	1
≥ 10 < 20	II–A	1
> 20 ≤ 30	II–A	0
> 30	All	0

MEZZANINE AREA

LEVEL 2 AREA	609 SQ.FT.
LEVEL 3 AREA	1,694 SQ.FT
TOTAL MEZZANINE AREA =	2,303 SQ.FT.
MAIN ROOM BELOW (GROUND LEVEL)	7,065 SQ.FT.

MEZZANINE IS 32.6 % OF THE MAIN ROOM (2,303 SQ.FT / 7,065 SQ.FT)
LESS THAN 33% MAXIMUM PER NFPA 101 8.6.9.2.1

AREA CALCULATION OF THE MAIN ROOM DOES NOT INCLUDE ANY ENCLOSED SPACES AS PER NFPA 101 8.6.9.2.1.
AREA CALCULATION OF THE MAIN ROOM DOES NOT INCLUDE THE MEZZANINE AS PER NFPA 101 8.6.9.2.3.

TRAVEL DISTANCE, DEAD END LENGTH, and MEANS OF EGRESS WIDTH

F.B.C. TABLE 1018.1
N.F.P.A TABLE A.7.6

OCCUPANCY CLASSIFICATION	MAXIMUM TRAVEL DIST. TO EXIT (ft)	MAXIMUM DEAD END CORRIDOR LENGTH (ft)	MAXIMUM COMMON PATH OF TRAVEL (ft)	EGRESS WIDTH PER PERSON SERVED (in)		MINIMUM CORRIDOR/ AISLE WIDTH (in)	MINIMUM CLEAR OP'G OF EXIT DOORS (in)	MINIMUM STAIR WIDTH (in)
	SPRINKLED.		SPRINKLED.	LEVEL	STAIRS			
ASSEMBLY	250	20	75	0.2	0.3	44	32	44

*BASED ON MOST RESTRICTIVE OF N.F.P.A 101 & FBC
*BUILDING IS FULLY SPRINKLERED AS PER NFPA 9.7

REVISIONS / SUBMISSIONS

1. BLDG DEPT COMMENTS 10-25-11
2. BLDG DEPT COMMENTS 11-21-11
3.
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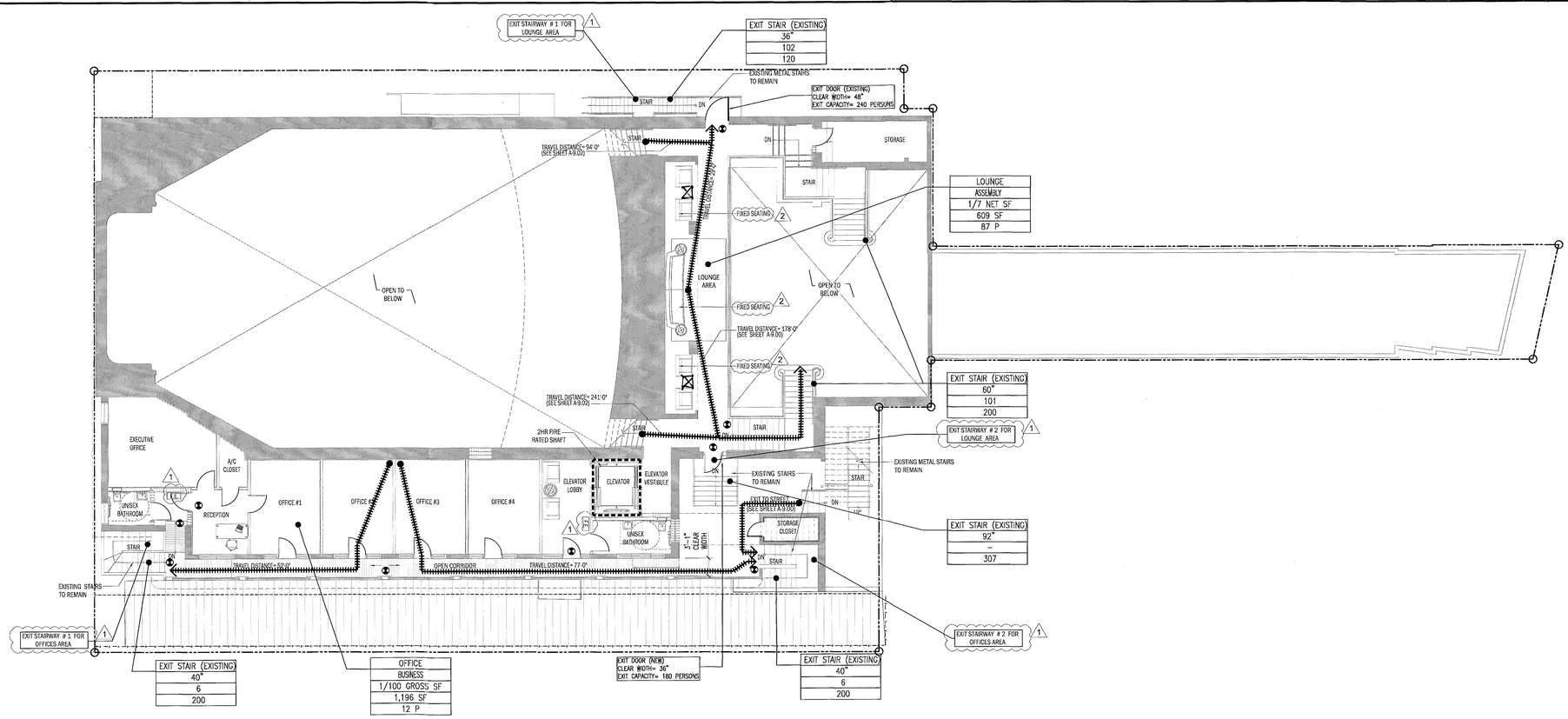

LEVEL 2 LIFE SAFETY PLAN
SCALE 3/32"=1'-0"

OCCUPANT LOAD CALCULATION
(F.B.C. TABLE 1004.1.1)

OCCUPANCY	OCCUPANCY LOAD	AREA	TOTAL
ASSEMBLY- LOUNGE	1 PERSON / 7 NET SF	609 SF	87 PERSONS
BUSINESS	1 PERSON / 100 GROSS SF	1,196 SF	12 PERSONS
TOTAL:		1,805 SF	99 PERSONS

LINE TYPE LEGEND

- 1 HOUR FIRE WALL
- 2 HOUR FIRE WALL
- 3 HOUR FIRE WALL
- COMMON PATH OF TRAVEL
- DIRECTION OF EGRESS-TRAVEL DISTANCE
- F.E. — FIRE EXTINGUISHER CABINETS. SEE DETAILS ON SHEET A-8.13
- EXIT SIGN

EXIT NUMBER
TOTAL EXIT CLEAR WIDTH
OCCUPANT LOAD USED
MAX CAPACITY

ROOM
OCCUPANCY
OCCUPANT LOAD FACTOR
AREA IN SF
OCCUPANT LOAD

TRAVEL DISTANCE, DEAD END LENGTH, and MEANS OF EGRESS WIDTH
F.B.C. TABLE 1016.1
N.F.P.A TABLE A.7.6

OCCUPANCY CLASSIFICATION	MAXIMUM TRAVEL DIST. TO EXIT (ft)	MAXIMUM DEAD END CORRIDOR LENGTH (ft)	MAXIMUM COMMON PATH OF TRAVEL (ft)	EGRESS WIDTH PER PERSON SERVED (in)		MINIMUM CORRIDOR/ AISLE WIDTH (in)	MINIMUM CLEAR OP'G OF EXIT DOORS (in)	MINIMUM STAIR WIDTH (in)
	SPRINKLED.		SPRINKLED.	LEVEL	STAIRS			
ASSEMBLY	250	20	75	0.2	0.3	44	32	44

*BASED ON MOST RESTRICTIVE OF N.F.P.A 101 & FBC
*BUILDING IS FULLY SPRINKLERED AS PER NFPA 9.7

CONSTRUCTION TYPE
F.B.C. TABLE 503

OCCUPANCY CLASSIFICATION = ASSEMBLY (A-2)

CONSTRUCTION TYPE = TYPE II (A)

ALLOWABLE HEIGHT AND BUILDING AREAS
TABLE 503 F.B.C

	TYPE II (A)	
	PERMITTED	PROVIDED
MAX. AREA PER FLOOR	15,500	12,115 SF
MAX. HEIGHT (# OF STORIES)	4 *	4

* ALLOWABLE HEIGHT INCREASE AS PER SECTION 504.2. FBC. BUILDING IS EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEM

GENERAL NOTES
1. THE OCCUPANY AND TYPE OF CONSTRUCTION FOR THE PROPOSED BUILDINGS ARE AS FOLLOWS:

ASSEMBLY (A-2) TYPE IIA

2. MAXIMUM ELEVATION CHANGE AT ALL BUILDING ENTRANCE DOORS (INCLUDING THRESHOLDS) SHALL BE EQUAL TO OR LESS THAN 1/2".

3. PROVIDE ONE-ABC TYPE, "2-A" RATED FIRE EXTINGUISHER FOR EACH 2,500 SQ. FT. MAXIMUM 75 FT. OF TRAVEL. TOP OF EXTINGUISHER NOT TO EXCEED 5 FOOT ABOVE FINISH FLOOR.

4. THIS PROPOSED BUILDING IS TO BE EQUIPPED WITH A COMPLETE SPRINKLER SYSTEM AND FIRE ALARM, REFER TO FIRE PROTECTION SHEETS. ALL EXISTING FIRE PROTECTION SYSTEM TO REMAIN.

ASSEMBLY COMPONENT NOTES:

1. FULLY SPRINKLERED

2. EGRESS DOORS MUST BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

3. DOORS MUST BE OPENABLE WITH NO MORE THAN ONE RELEASING OPERATION. SUCH MECHANISM FOR ANY LATCH SHALL BE LOCATED 34" MIN AND 48" MAX ABOVE FINISHED FLOOR.

4. ILLUMINATED AND MARKED MEANS OF EGRESS

5. EMERGENCY LIGHTING PROVIDED

6. INITIATION PROVIDED VIA APPROVED AUTOMATIC SPRINKLER SYSTEM THAT PROVIDES FIRE DETECTION AND PROTECTION THROUGHOUT BUILDING

7. AUDIBLE ALARM IS AUTOMATIC

SMOKE DETECTION
1. EVERY MECHANICAL EQUIPMENT, ELECTRICAL, TRANSFORMER, TELEPHONE EQUIPMENT, ELEVATOR MACHINE, OR SIMILAR ROOM (ANY GENERALLY UNOCCUPIED AREA THAT CAN PROVIDE AN IGNITION SOURCE)

2. EVERY ELEVATOR LOBBY

3. EACH HVAC MAIN RETURN AND EXHAUST AIR PLENUM

4. OUTSIDE (WITHIN 10'-0") OF EACH STAIR/EXIT DOOR ON EACH FLOOR

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS F.B.C. TABLE 601

BUILDING ELEMENT	TYPE II (A)
STRUCTURAL FRAME	1 HOUR
BEARING EXTERIOR & INTERIOR WALLS	1 HOUR
NONBEARING INTERIOR WALLS & PARTITIONS	0 HOUR
FLOORS CONSTRUCTION	1 HOUR
ROOF STRUCTURE	1 HOUR

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE F.B.C. TABLE 602

FIRE SEPARATION DISTANCE (FT)	TYPE OF CONSTRUCTION	GROUP A
< 5	II-A	1
≥ 5 < 10	II-A	1
≥ 10 < 20	II-A	1
> 20 ≤ 30	II-A	0
> 30	All	0

REVISIONS / SUBMISSIONS
1 BLDG DEPT COMMENTS 10-25-11
2 BLDG DEPT COMMENTS 11-21-11
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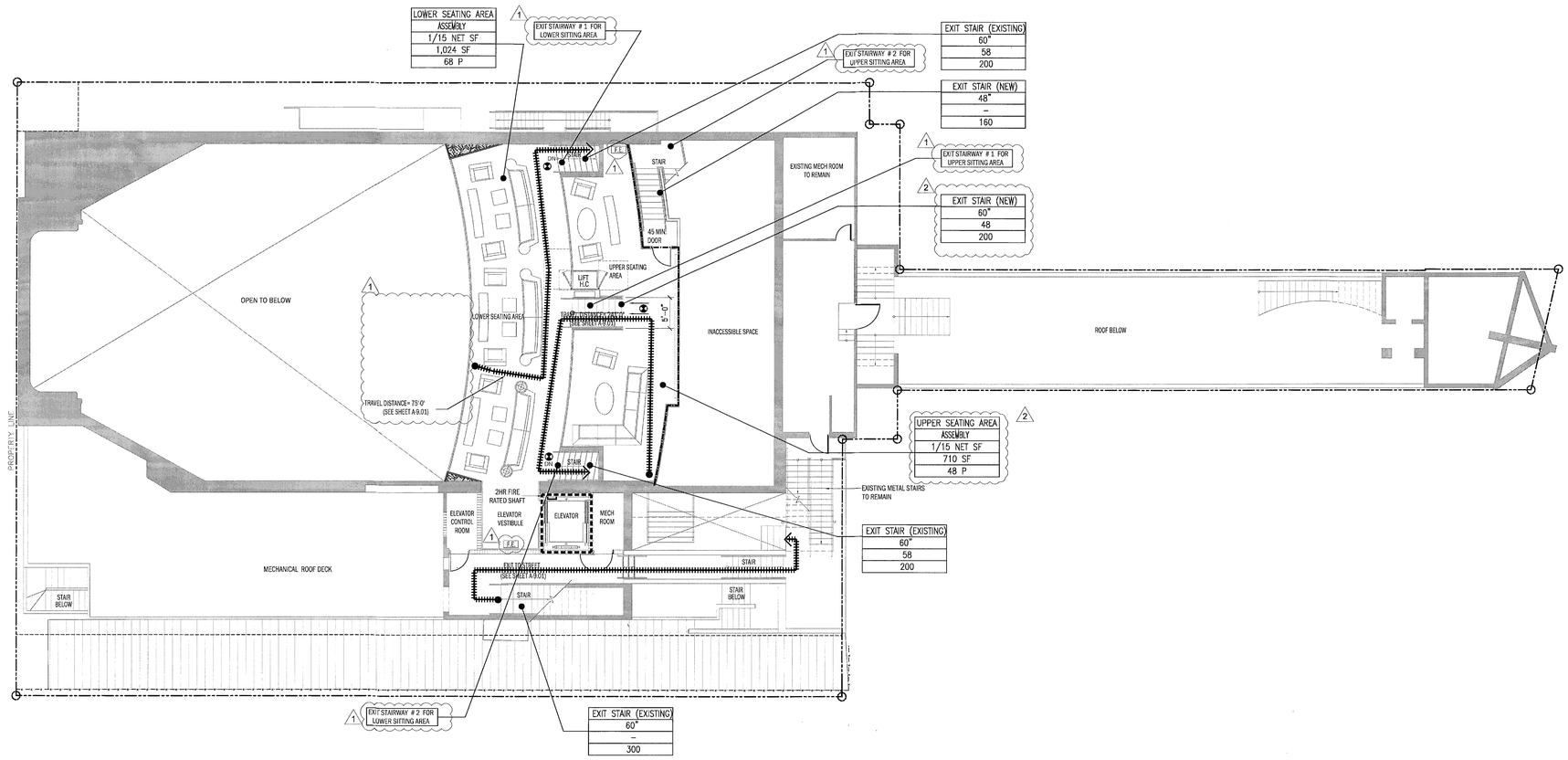

LEVEL 3 LIFE SAFETY PLAN
SCALE 3/32"=1'-0"

OCCUPANT LOAD CALCULATION
(F.B.C. TABLE 1004.1.1)

OCCUPANCY	OCCUPANCY LOAD	AREA	TOTAL
ASSEMBLY	1 PERSON / 15 NET SF	1,761 SF	118 PERSONS
PLATFORM-ENTERTAINER	1 PERSON / 15 NET SF	103 SF	7 PERSONS
TOTAL:		1,805 SF	125 PERSONS

LINE TYPE LEGEND

- 1 HOUR FIRE WALL
- 2 HOUR FIRE WALL
- 3 HOUR FIRE WALL
- COMMON PATH OF TRAVEL
- DIRECTION OF EGRESS-TRAVEL DISTANCE
- F.E. — FIRE EXTINGUISHER CABINETS. SEE DETAILS ON SHEET A-8.13
- EXIT SIGN

EXIT NUMBER
TOTAL EXIT CLEAR WIDTH
OCCUPANT LOAD USED
MAX CAPACITY

ROOM
OCCUPANCY
OCCUPANT LOAD FACTOR
AREA IN SF
OCCUPANT LOAD

TRAVEL DISTANCE, DEAD END LENGTH, and MEANS OF EGRESS WIDTH
F.B.C. TABLE 1016.1
N.F.P.A TABLE A.7.6

OCCUPANCY CLASSIFICATION	MAXIMUM TRAVEL DIST. TO EXIT (ft)	MAXIMUM DEAD END CORRIDOR LENGTH (ft)	MAXIMUM COMMON PATH OF TRAVEL (ft)	EGRESS WIDTH PER PERSON SERVED (in)		MINIMUM CORRIDOR/ AISLE WIDTH (in)	MINIMUM CLEAR OP'G OF EXIT DOORS (in)	MINIMUM STAIR WIDTH (in)
	SPRINKLED.		SPRINKLED.	LEVEL	STAIRS			
ASSEMBLY	250	20	75	0.2	0.3	44	32	44

*BASED ON MOST RESTRICTIVE OF N.F.P.A 101 & FBC
*BUILDING IS FULLY SPRINKLERED AS PER NFPA 9.7

CONSTRUCTION TYPE
F.B.C. TABLE 503

OCCUPANCY CLASSIFICATION = ASSEMBLY (A-2)

CONSTRUCTION TYPE = TYPE II (A)

ALLOWABLE HEIGHT AND BUILDING AREAS
TABLE 503 F.B.C

	TYPE II (A)	
	PERMITTED	PROVIDED
MAX. AREA PER FLOOR	15,500	12,115 SF
MAX. HEIGHT (# OF STORIES)	4 *	4

* ALLOWABLE HEIGHT INCREASE AS PER SECTION 504.2. FBC. BUILDING IS EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEM

GENERAL NOTES
1. THE OCCUPANY AND TYPE OF CONSTRUCTION FOR THE PROPOSED BUILDINGS ARE AS FOLLOWS:

ASSEMBLY (A-2) TYPE IIA

2. MAXIMUM ELEVATION CHANGE AT ALL BUILDING ENTRANCE DOORS (INCLUDING THRESHOLDS) SHALL BE EQUAL TO OR LESS THAN 1/2".

3. PROVIDE ONE-ABC TYPE, "2-A" RATED FIRE EXTINGUISHER FOR EACH 2,500 SQ. FT. MAXIMUM 75 FT. OF TRAVEL. TOP OF EXTINGUISHER NOT TO EXCEED 5 FOOT ABOVE FINISH FLOOR.

4. THIS PROPOSED BUILDING IS TO BE EQUIPPED WITH A COMPLETE SPRINKLER SYSTEM AND FIRE ALARM, REFER TO FIRE PROTECTION SHEETS. ALL EXISTING FIRE PROTECTION SYSTEM TO REMAIN.

ASSEMBLY COMPONENT NOTES:

1. FULLY SPRINKLERED

2. EGRESS DOORS MUST BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

3. DOORS MUST BE OPENABLE WITH NO MORE THAN ONE RELEASING OPERATION. SUCH MECHANISM FOR ANY LATCH SHALL BE LOCATED 34" MIN AND 48" MAX ABOVE FINISHED FLOOR.

4. ILLUMINATED AND MARKED MEANS OF EGRESS

5. EMERGENCY LIGHTING PROVIDED

6. INITIATION PROVIDED VIA APPROVED AUTOMATIC SPRINKLER SYSTEM THAT PROVIDES FIRE DETECTION AND PROTECTION THROUGHOUT BUILDING

7. AUDIBLE ALARM IS AUTOMATIC

SMOKE DETECTION
1. EVERY MECHANICAL EQUIPMENT, ELECTRICAL, TRANSFORMER, TELEPHONE EQUIPMENT, ELEVATOR MACHINE, OR SIMILAR ROOM (ANY GENERALLY UNOCCUPIED AREA THAT CAN PROVIDE AN IGNITION SOURCE)

2. EVERY ELEVATOR LOBBY

3. EACH HVAC MAIN RETURN AND EXHAUST AIR PLENUM

4. OUTSIDE (WITHIN 10'-0") OF EACH STAIR/EXIT DOOR ON EACH FLOOR

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS F.B.C. TABLE 601

BUILDING ELEMENT	TYPE II (A)
STRUCTURAL FRAME	1 HOUR
BEARING EXTERIOR & INTERIOR WALLS	1 HOUR
NONBEARING INTERIOR WALLS & PARTITIONS	0 HOUR
FLOORS CONSTRUCTION	1 HOUR
ROOF STRUCTURE	1 HOUR

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE F.B.C. TABLE 602

FIRE SEPARATION DISTANCE (FT)	TYPE OF CONSTRUCTION	GROUP A
< 5	II-A	1
≥ 5 < 10	II-A	1
≥ 10 < 20	II-A	1
> 20 ≤ 30	II-A	0
> 30	All	0

REVISIONS / SUBMISSIONS
1 BLDG DEPT COMMENTS 10-25-11
2 BLDG DEPT COMMENTS 11-21-11
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LIFE SAFETY LEVEL 3

2011

Lic. # AR0012578

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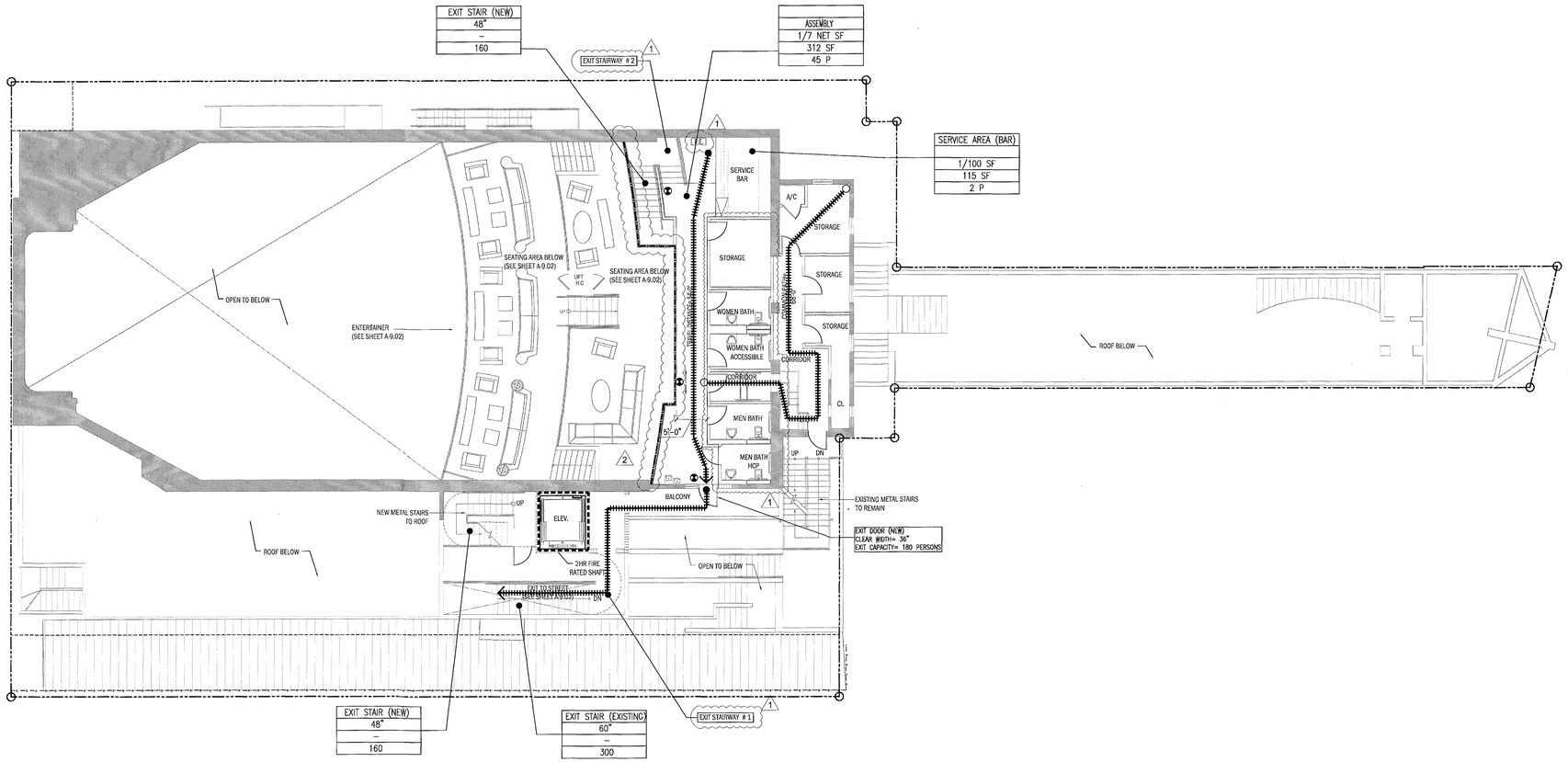
DATE:	09-08-11

A-9.02



LEVEL 4 LIFE SAFETY PLAN
SCALE 3/32"=1'-0"

OCCUPANT LOAD CALCULATION
(F.B.C. TABLE 1004.1.1)

OCCUPANCY	OCCUPANCY LOAD	AREA	TOTAL
SERVICE AREA	1 PERSON / 100 SF	115 SF	2 PERSONS
ASSEMBLY	1 PERSON / 7 NET SF	312 SF	45 PERSONS
TOTAL:		427 SF	47 PERSONS

LINE TYPE LEGEND

- 1 HOUR FIRE WALL
- 2 HOUR FIRE WALL
- 3 HOUR FIRE WALL
- COMMON PATH OF TRAVEL
- DIRECTION OF EGRESS-TRAVEL DISTANCE
- F.E. — FIRE EXTINGUISHER CABINETS. SEE DETAILS ON SHEET A-8.13
- EXIT SIGN

EXIT NUMBER
TOTAL EXIT CLEAR WIDTH
OCCUPANT LOAD USED
MAX CAPACITY

ROOM
OCCUPANCY
OCCUPANT LOAD FACTOR
AREA IN SF
OCCUPANT LOAD

TRAVEL DISTANCE, DEAD END LENGTH, and MEANS OF EGRESS WIDTH
F.B.C. TABLE 1016.1
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OCCUPANCY CLASSIFICATION	MAXIMUM TRAVEL DIST. TO EXIT (ft)	MAXIMUM DEAD END CORRIDOR LENGTH (ft)	MAXIMUM COMMON PATH OF TRAVEL (ft)	EGRESS WIDTH PER PERSON SERVED (in)		MINIMUM CORRIDOR/ AISLE WIDTH (in)	MINIMUM CLEAR OP'G OF EXIT DOORS (in)	MINIMUM STAIR WIDTH (in)
	SPRINKLED.		SPRINKLED.	LEVEL	STAIRS			
ASSEMBLY	250	20	75	0.2	0.3	44	32	44

*BASED ON MOST RESTRICTIVE OF N.F.P.A 101 & FBC
*BUILDING IS FULLY SPRINKLERED AS PER NFPA 9.7

CONSTRUCTION TYPE
F.B.C. TABLE 503

OCCUPANCY CLASSIFICATION = ASSEMBLY (A-2)

CONSTRUCTION TYPE = TYPE II (A)

ALLOWABLE HEIGHT AND BUILDING AREAS
TABLE 503 F.B.C

	TYPE II (A)	
	PERMITTED	PROVIDED
MAX. AREA PER FLOOR	15,500	12,115 SF
MAX. HEIGHT (# OF STORIES)	4 *	4

* ALLOWABLE HEIGHT INCREASE AS PER SECTION 504.2. FBC. BUILDING IS EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEM

GENERAL NOTES
1. THE OCCUPANY AND TYPE OF CONSTRUCTION FOR THE PROPOSED BUILDINGS ARE AS FOLLOWS:

ASSEMBLY (A-2) TYPE IIA

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4. THIS PROPOSED BUILDING IS TO BE EQUIPPED WITH A COMPLETE SPRINKLER SYSTEM AND FIRE ALARM, REFER TO FIRE PROTECTION SHEETS. ALL EXISTING FIRE PROTECTION SYSTEM TO REMAIN.

ASSEMBLY COMPONENT NOTES:

1. FULLY SPRINKLERED

2. EGRESS DOORS MUST BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

3. DOORS MUST BE OPENABLE WITH NO MORE THAN ONE RELEASING OPERATION. SUCH MECHANISM FOR ANY LATCH SHALL BE LOCATED 34" MIN AND 48" MAX ABOVE FINISHED FLOOR.

4. ILLUMINATED AND MARKED MEANS OF EGRESS

5. EMERGENCY LIGHTING PROVIDED

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1. EVERY MECHANICAL EQUIPMENT, ELECTRICAL, TRANSFORMER, TELEPHONE EQUIPMENT, ELEVATOR MACHINE, OR SIMILAR ROOM (ANY GENERALLY UNOCCUPIED AREA THAT CAN PROVIDE AN IGNITION SOURCE)

2. EVERY ELEVATOR LOBBY

3. EACH HVAC MAIN RETURN AND EXHAUST AIR PLENUM

4. OUTSIDE (WITHIN 10'-0") OF EACH STAIR/EXIT DOOR ON EACH FLOOR

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS F.B.C. TABLE 601

BUILDING ELEMENT	TYPE II (A)
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LIFE SAFETY LEVEL 4

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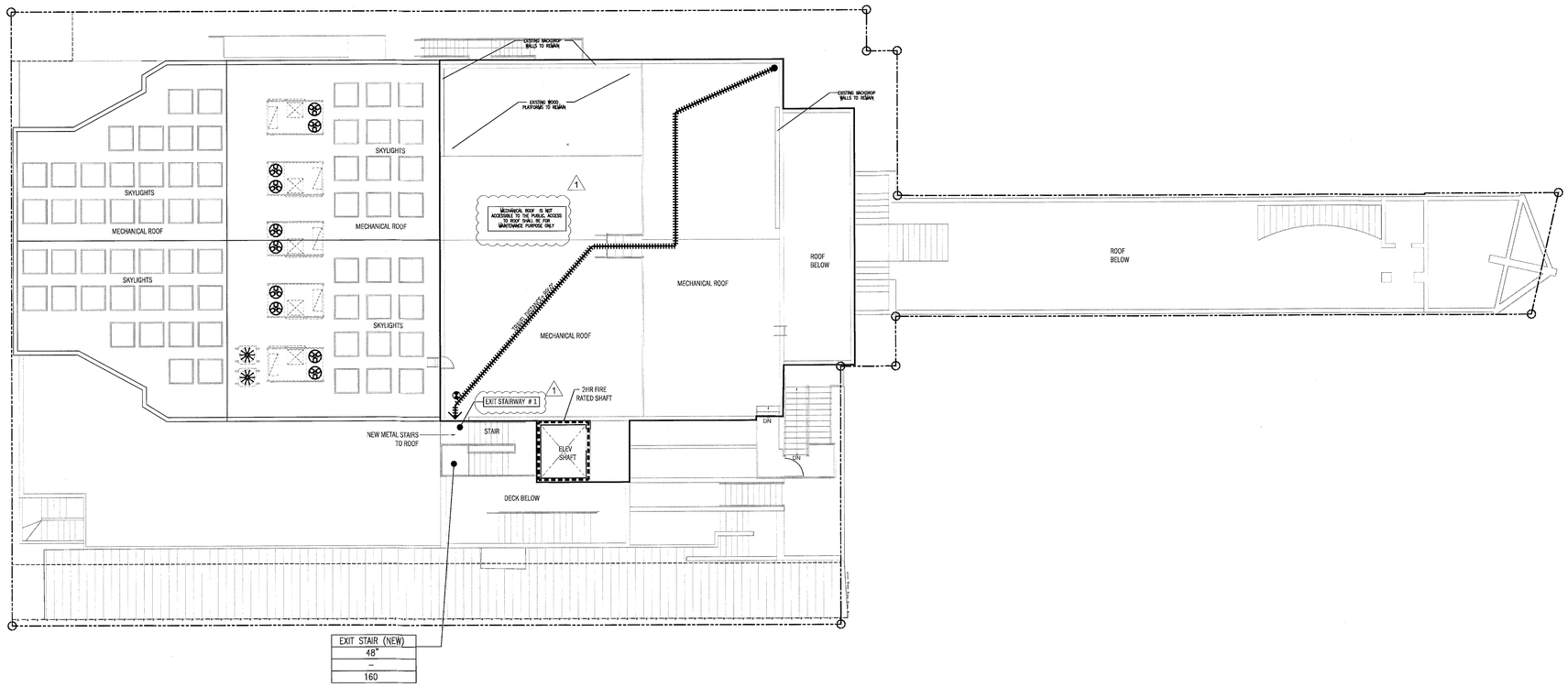
WWW.KOBIKARP.COM
KOBI KARP

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

A-9.03



LEVEL ROOF LIFE SAFETY PLAN

SCALE 3/32"=1'-0"

LINE TYPE LEGEND

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- 2 HOUR FIRE WALL
- 3 HOUR FIRE WALL
- COMMON PATH OF TRAVEL
- DIRECTION OF EGRESS-TRAVEL DISTANCE
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EXIT NUMBER
TOTAL EXIT CLEAR WIDTH
OCCUPANT LOAD USED
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OCCUPANT LOAD

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≥ 5 < 10	II-A	1
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> 20 ≤ 30	II-A	0
> 30	All	0

REVISIONS / SUBMISSIONS

1. BLDG DEPT COMMENTS 10-25-11
2. BLDG DEPT COMMENTS 11-21-11
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LIFE SAFETY LEVEL ROOF

NOV 22 2011

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

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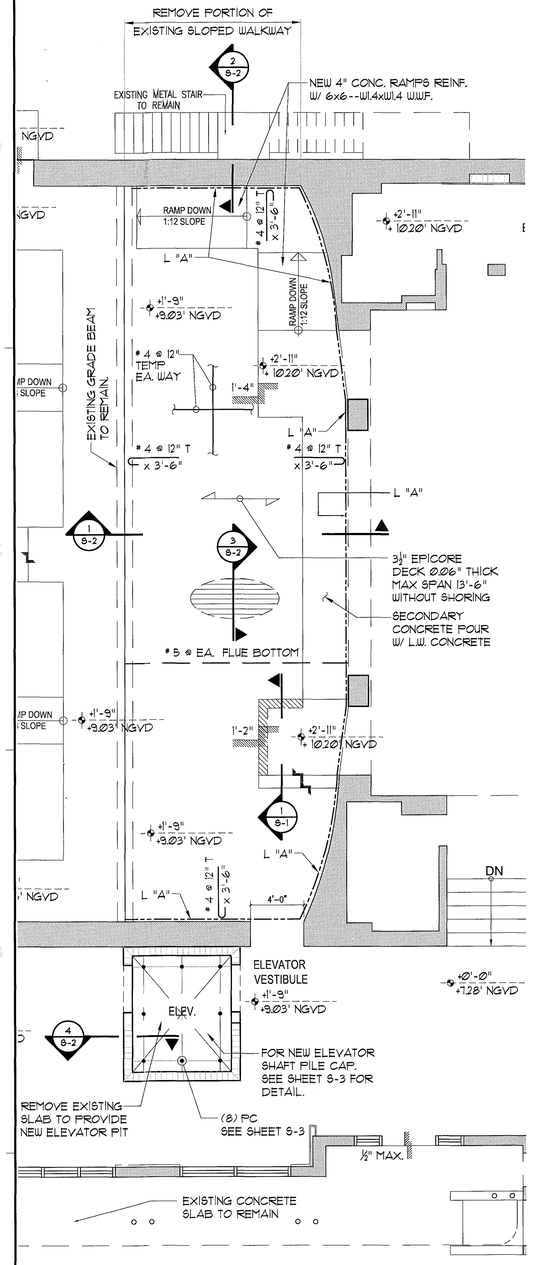
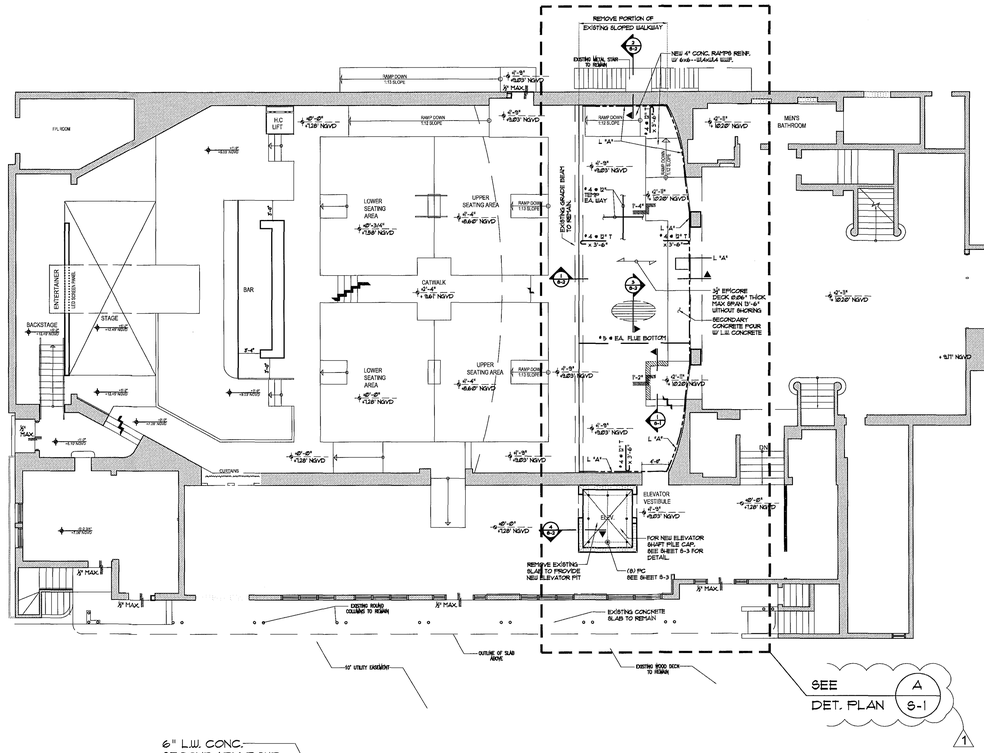


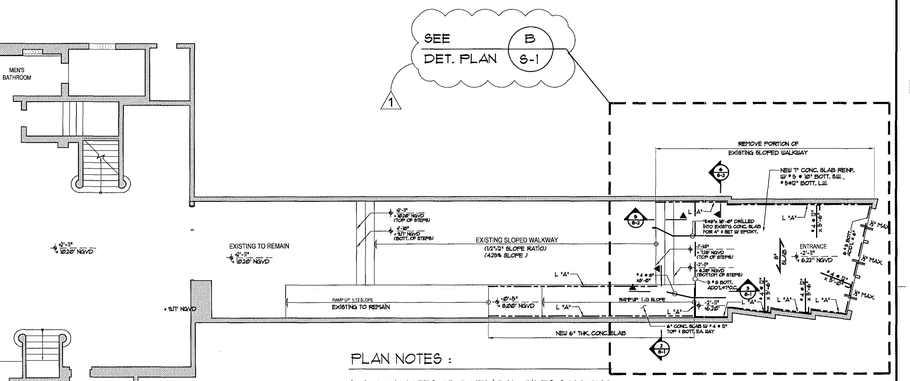
ENLARGED PLAN

A / S-1 — SCALE: 3/16" = 1'-0"



SEE DETAIL PLAN B / S-1

SEE DETAIL PLAN A / S-1



PLAN NOTES :

1. I-P DENOTES 3" Ø HELICAL PILES 20' LONG REFUSAL OR REFUSAL W/ 12 TONS COMPRESSION, 6 TONS TENSION CAPACITIES PER GEOTECHNICAL REPORT PREPARED BY DYNATECH ENGINEERING CORP. REPORT DATED AUGUST 9, 2011 .

2. SUPERIMPOSED LOADS :
   DL = 35 PSF
   LL = 100 PSF

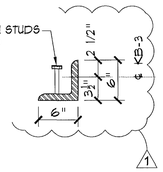
3. L "A" DENOTES GALVANIZED L 6x6x½ CONT. ANGLE W/ ¾" Ø x 4 ¾" PENETRATION KB3 BY "HILTI" @ 10" O.C. INTO SOLID CONC. OR (2) FULLY GROUTED BLOCK CELLS.

4. FOR 8" CONC. SLAB PROVIDE # 5 @ 10" BOTTOM S.W. & # 5 @ 12" BOTT. L.W.

5. ⟶ DENOTES DIRECTION OF SLAB MAIN REINF. (OUTER MOST LAYER)

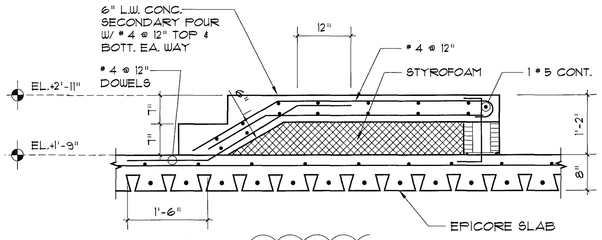
6. ⊂⊃ DENOTES SLAB TOP REINF.

5/8" Ø x 4" NELSON STUDS @ 12" O.C. ONLY @ CONC. SLABS



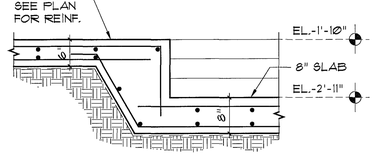
GROUND FLOOR FRAMING PLAN

SCALE: 3/32" = 1'-0"



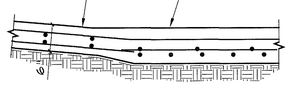
SECTION

1 / S-1 — SCALE: 3/4" = 1'-0"



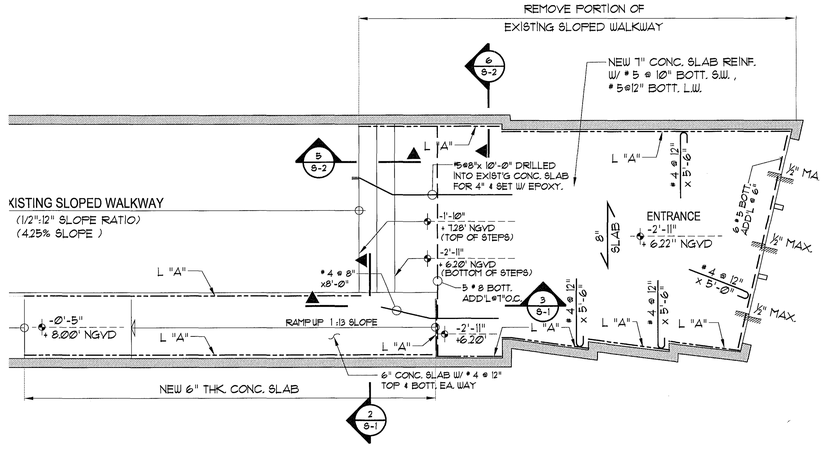
SECTION

2 / S-1 — SCALE: 3/4" = 1'-0"



SECTION

3 / S-1 — SCALE: 3/4" = 1'-0"



ENLARGED PLAN

B / S-1 — SCALE: 3/16" = 1'-0"

Zvonimir T. Belfranin, P.E.
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4836 S.W. 74 CT.MIAMI, FLORIDA 33155
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BELFRANN@AOL.COM

NOV 02 2011

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GROUND FLR. FRAMING PLAN

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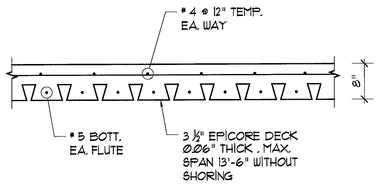
DATE:	09-08-11

S-1

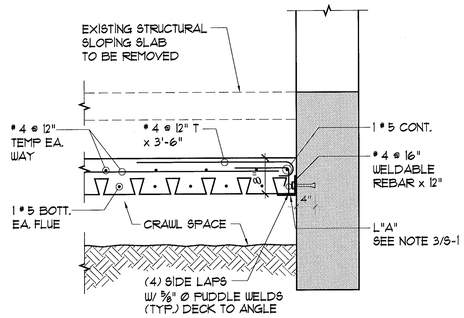


3 / S-2 EPICORE SLAB REINF. DETAIL
SCALE : 3/4" = 1'-Ø"

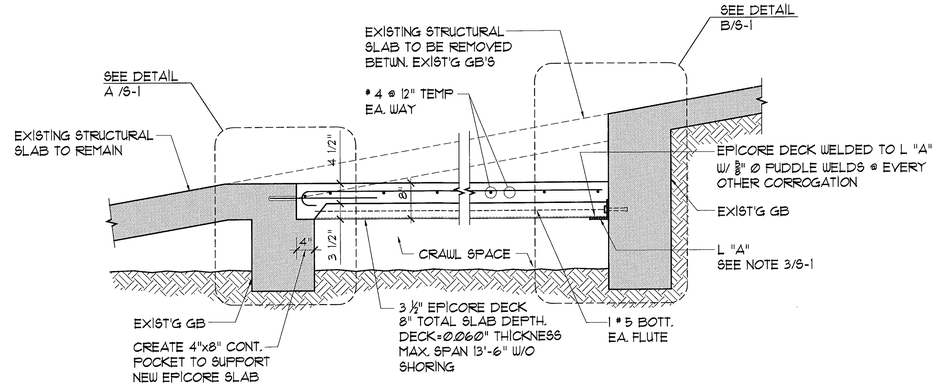
SUPERIMPOSED DEAD LOAD = 35 PSF
LIVE LOAD = 1ØØ PSF

WELDING OF DECK TO STEEL BEAMS AND STEEL ANGLES:

- ⅝" Ø PUDDLE WELDS @ EVERY OTHER CORRUGATION.
- (4) SIDE LAPS W/ ⅝" Ø PUDDLE WELDS.



2 / S-2 SECTION
SCALE: 3/4" = 1'-Ø"



1 / S-2 SECTION
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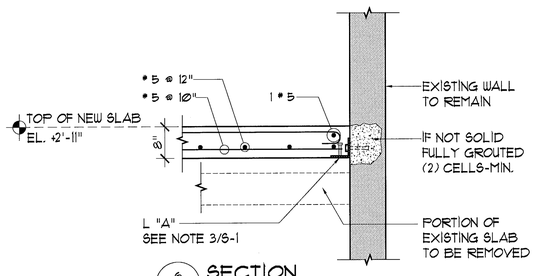

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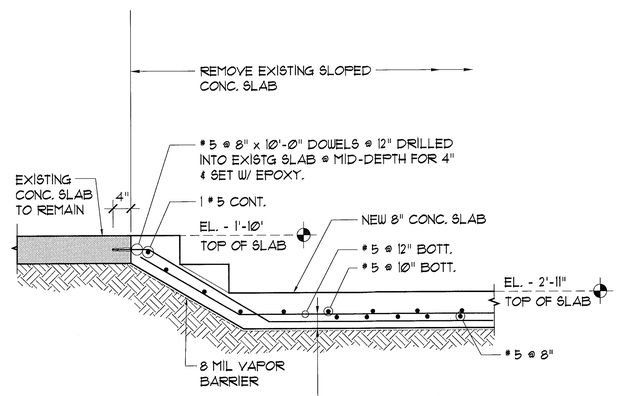
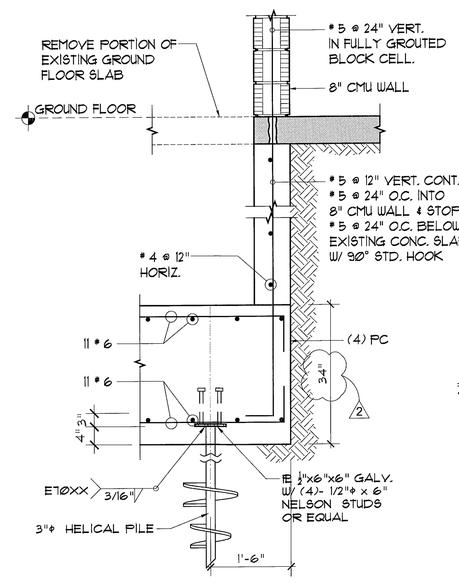


5 / S-2 SECTION
SCALE: 3/4" = 1'-Ø"



4 / S-2 SECTION
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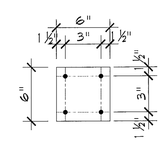

HELICAL PILE CAP PL
1/2"x6"x6"
SCALE : 1 1/2" = 1'-Ø"

FIELD WELD TO HELICAL PILE
AFTER PILE IS GROUTED

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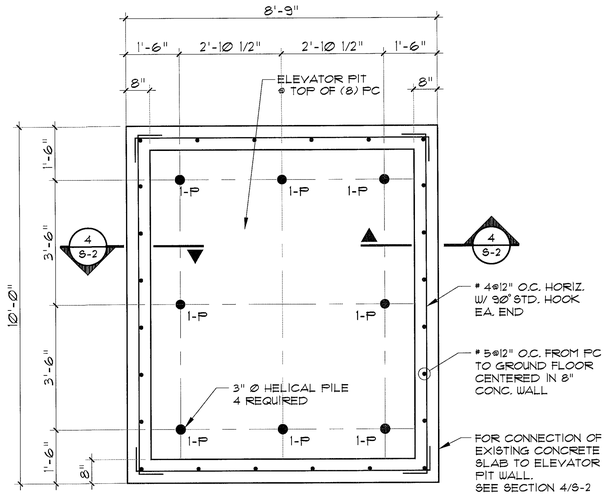
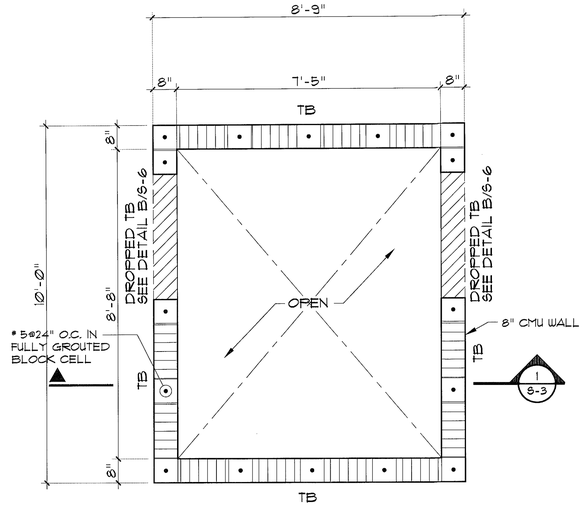


(8) P.C. DETAIL AT ELEVATOR PIT

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

THICKNESS : 34"
REINF. # 8 @ 12" TOP & BOTT.
EA. WAY W/ 90° STD. HOOK
EACH END.

1

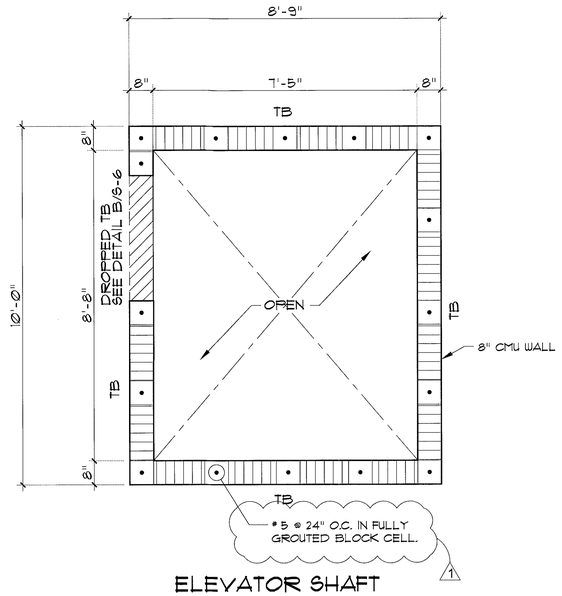


ELEVATOR SHAFT AT GROUND FLOOR TO 3RD FLOOR

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

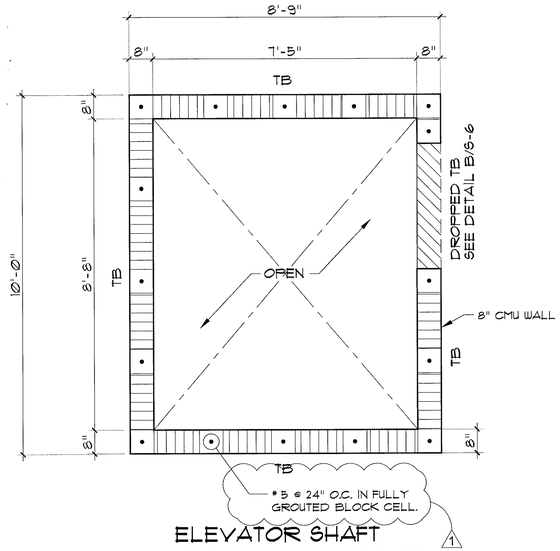
NOTE :

1. TB DENOTES 8" x 12" CONCRETE TIE BEAM REINFORCED W/ 2 # 5 TOP & BOTTOM & # 3 ☐ STIRRUPS @ 8" O.C. (TYPICAL)



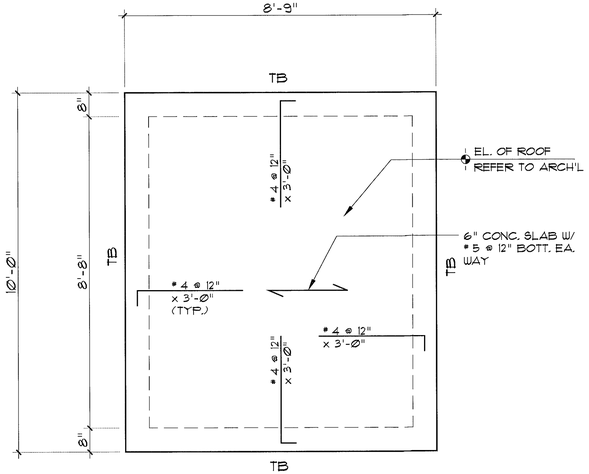
ELEVATOR SHAFT AT THIRD FLOOR

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



ELEVATOR SHAFT 4TH FLOOR TO ROOF

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



ELEVATOR ROOF

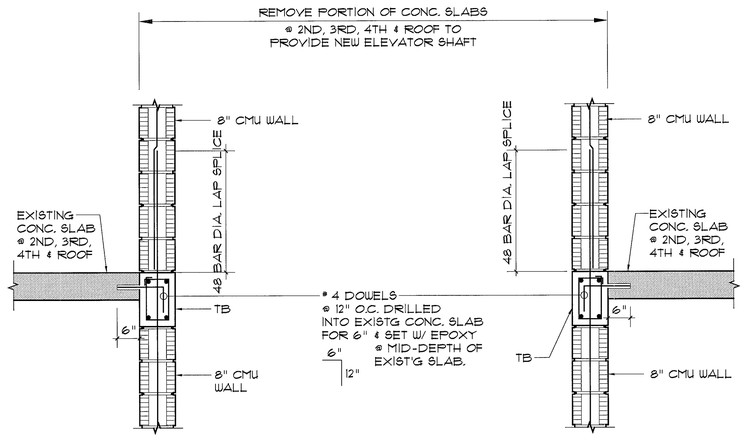
SCALE : 1/2" = 1'-0"

PLAN NOTES :

1. ⟷ DENOTES DIRECTION OF SLAB MAIN REINF. (OUTER MOST LAYER)

2. ⊂ DENOTES SLAB TOP REINF.

3. SUPERIMPOSED LOADS :
   DL = 25 PSF
   LL = 30 PSF



CONTRACTOR TO PROVIDE PROPER SHORING FOR EXISTING CONCRETE SLAB PRIOR REMOVAL OF SLAB TO CONSTRUCT NEW ELEVATOR SHAFT.

1 / S-3

OPENING DETAIL IN EXISTING CONC. SLAB FOR NEW ELEVATOR SHAFT

SCALE : 3/4" = 1'-0"

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ELEVATOR SHAFT DETAILS

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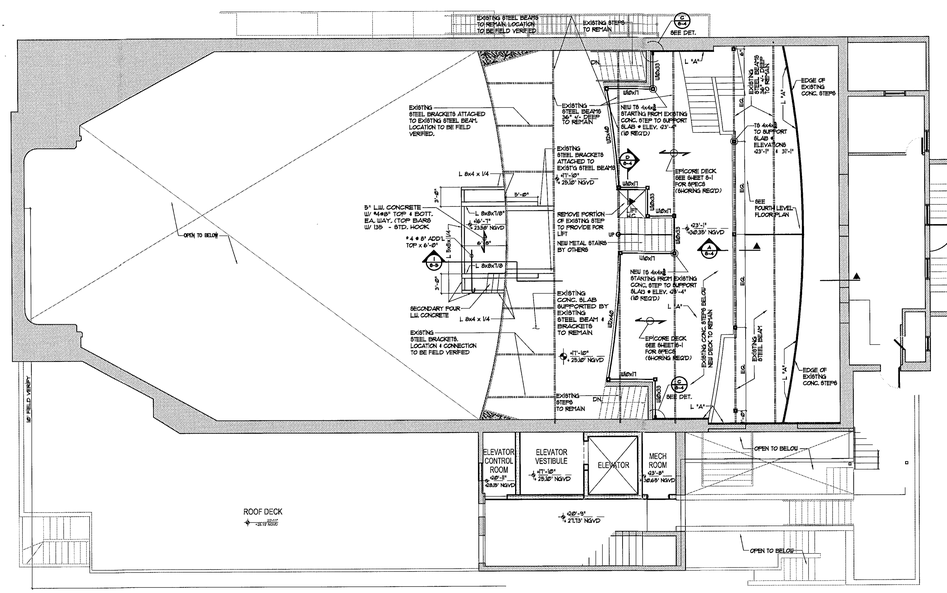
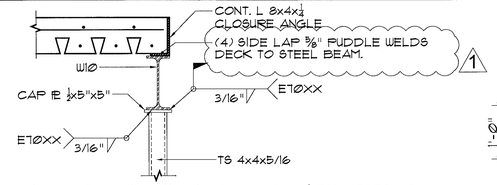


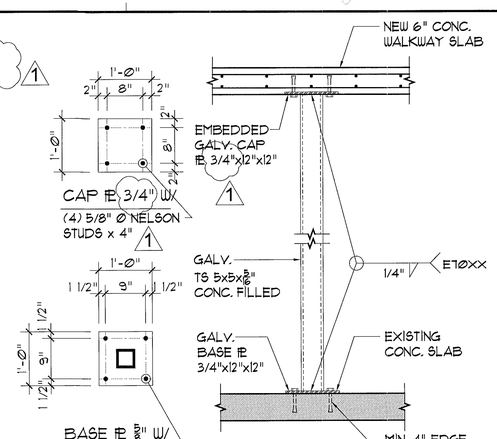
ENLARGED PLAN

3/16" = 1'-0"



EDGE OF NEW HDCP LIFT OPNG. @ EXISTING CONC. SLAB

D / S-4 SCALE : 3/4" = 1'-0"



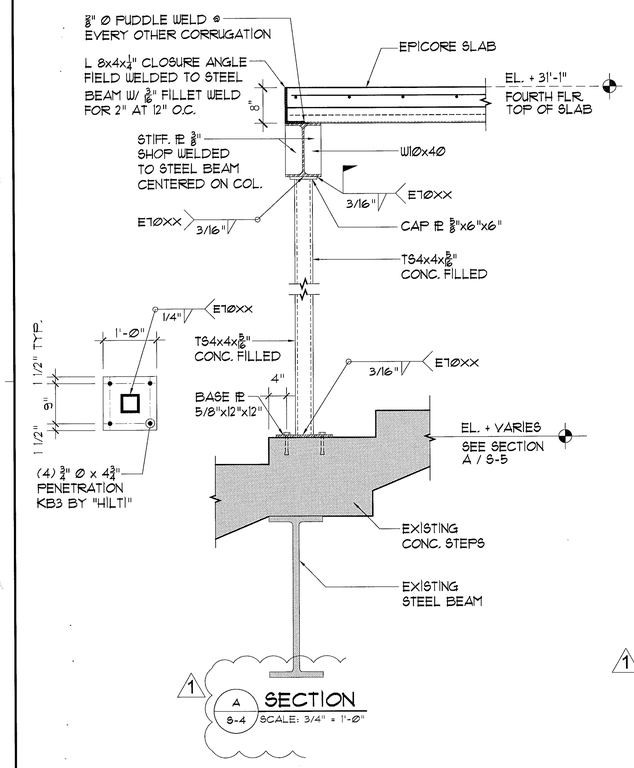
DETAIL

B / S-4 SCALE: 3/4" = 1'-0"

THIRD FLOOR FRAMING PLAN

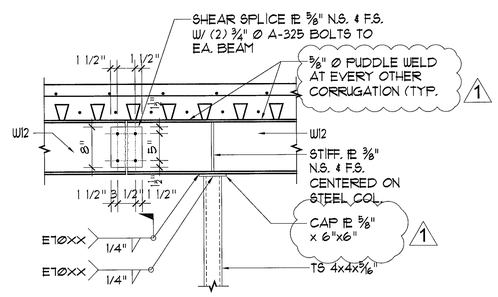
SCALE: 3/32" = 1'-0"

FIELD VERIFICATION NOTES :
ASSUMED LOCATION OF ALL EXISTING STRUCTURAL STEEL SHALL BE VERIFIED BY E.O.R. OR SPECIAL INSPECTOR AT FIELD. IN CASE OF ANY DISCREPANCIES, (TYP.) E.O.R. TO RELOCATE PROPOSED STEEL COLUMNS TO FALL CENTERED ON EXISTING STRUCTURAL BEAMS.



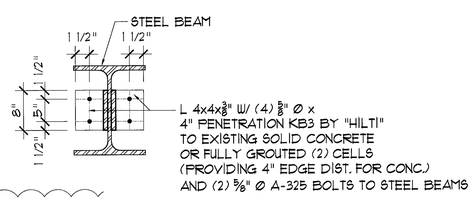
SECTION

A / S-4 SCALE: 3/4" = 1'-0"



DETAIL

1 / S-4 SCALE: 3/4" = 1'-0"



STEEL BEAM TO EXISTING WALL CONNECTION DETAIL

C / S-4 SCALE : 3/4" = 1'-0"

PLAN NOTES :

1. SUPERIMPOSED LOADS :
   S.I.D.L. = 35 PSF
   L.L. = 100 PSF
2. ⟷ DENOTES EPICORE DECK W/ CONC. TOPPING, SEE SECTION & PLANS

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3RD FLOOR FRAMING PLAN

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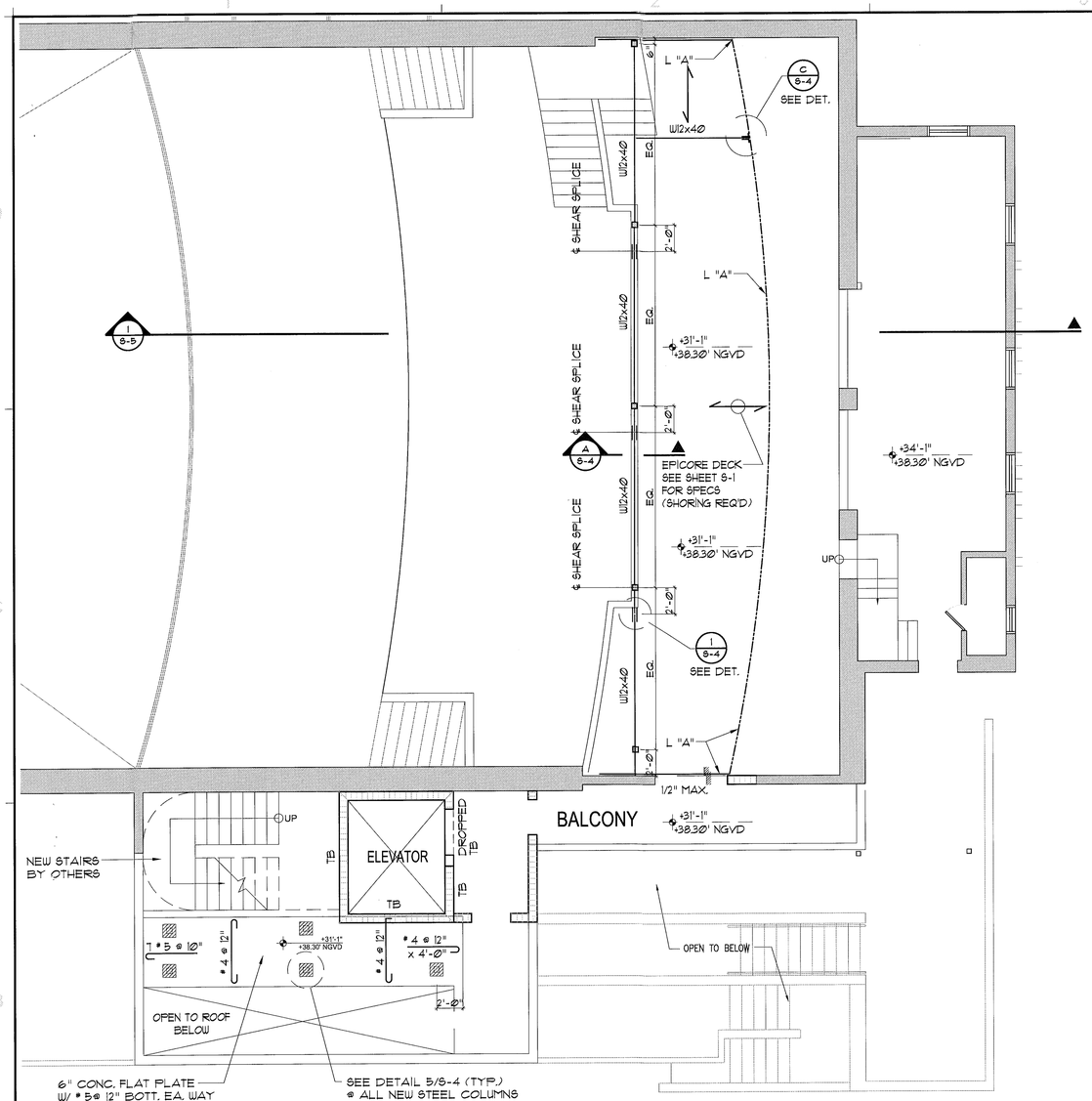
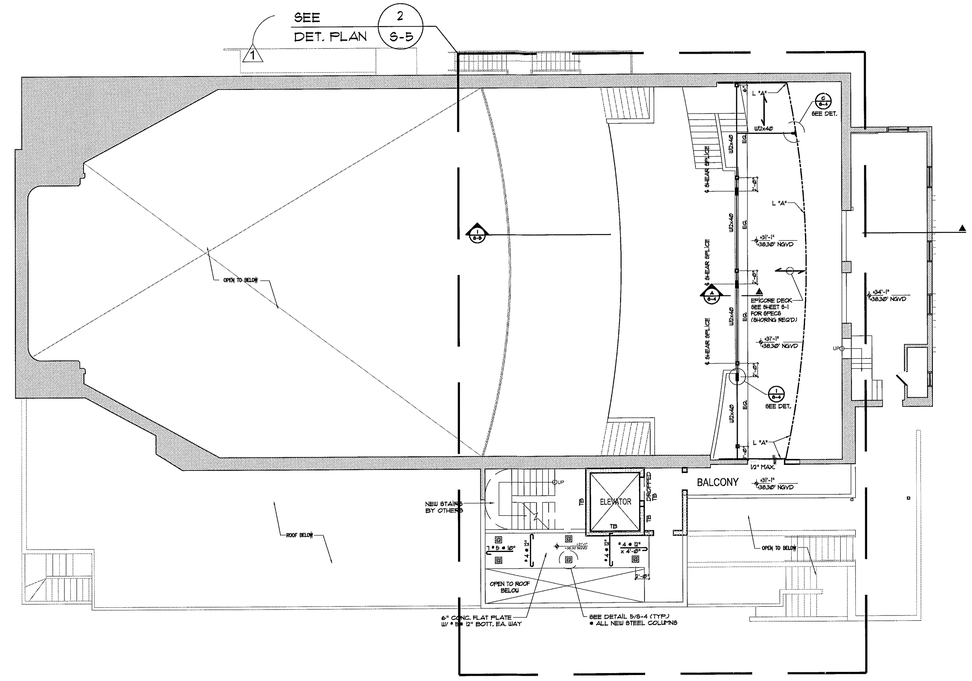


2 S-5 ENLARGED PLAN

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

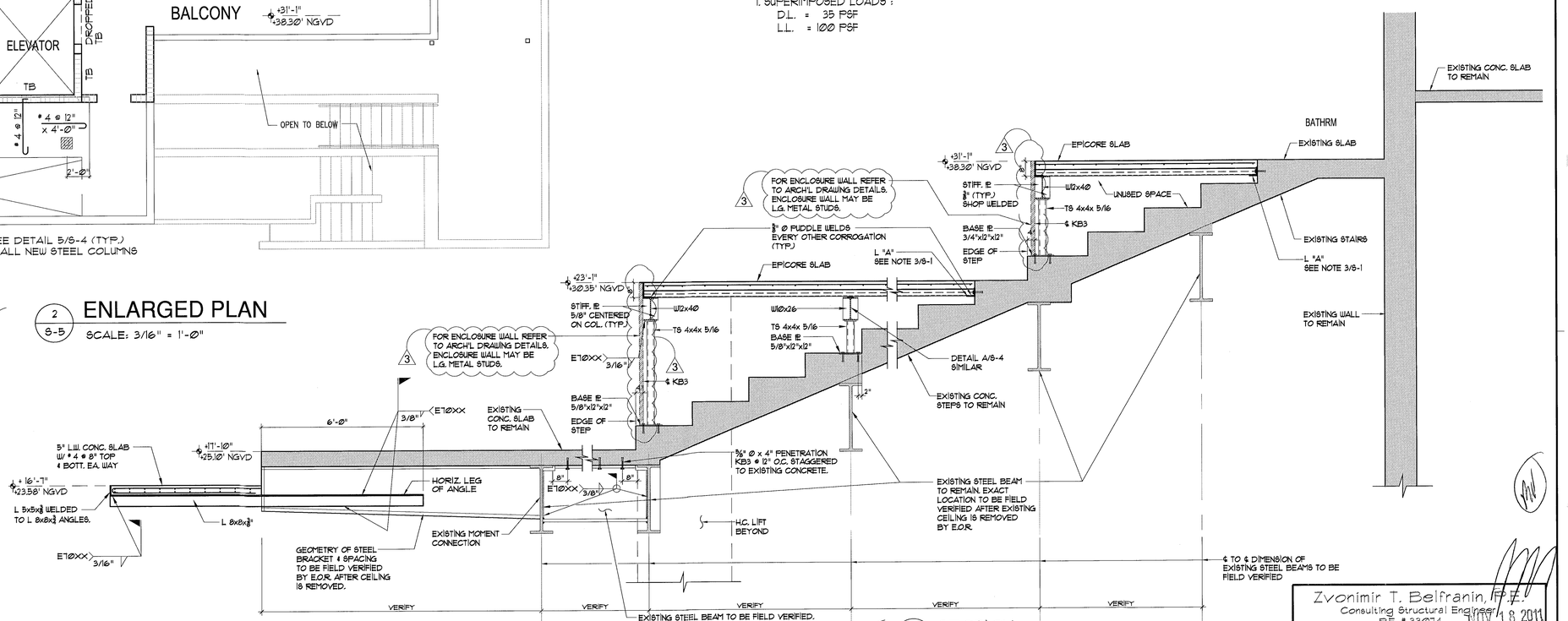


1 FOURTH FLOOR FRAMING PLAN

SCALE: 3/32" = 1'-0"

PLAN NOTES :

1. SUPERIMPOSED LOADS :
   D.L. = 35 PSF
   L.L. = 100 PSF



NOTE :
1. SIZE & LOCATION OF EXISTING STEEL BEAMS TO BE FIELD VERIFIED.
2. SIZE, GEOMETRY & LOCATION OF CANT'L STEEL BRACKETS TO BE FIELD VERIFIED.
3. CONTRACTOR TO NOTIFY E.O.R. OF ANY DISCREPANCIES BETWEEN FIELD CONDITION & FRAMING SHOWN FOR E.O.R. TO SHOW ACTUAL LOCATION & SIZES OF EXISTING MEMBERS WHICH MAY RESULT IN REDESIGN.

EXISTING STEEL BEAM TO BE FIELD VERIFIED. IF BEAM DOES NOT EXIST PROVIDE W21x84, FIELD WELDED TO BOTH EXISTING STEEL BEAMS W/ 3/8" FILLET WELD ALL AROUND TO PROVIDE STABILITY FOR EXISTING STEEL BEAM SUPPORTING BRACKETS.

1 S-5 SECTION

SCALE: 3/4" = 1'-0"

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4TH FLOOR FRAMING PLAN

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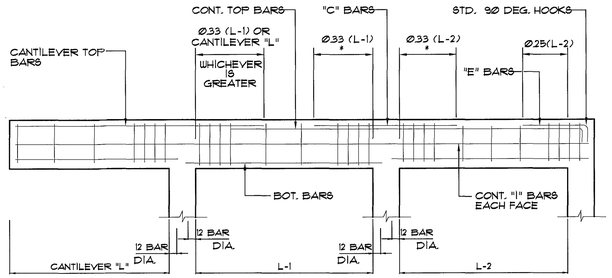


BEAM STEEL PLACEMENT DIAGRAM

N.T.S.

NOTES :

1. WHERE NECESSARY CONT. TOP BARS SHALL BE LAPPED 24 BAR DIA. IN MIDDLE 1/3 OF SPAN.
2. * WHICHEVER IS GREATER.
3. BEAMS @ THE PERIMETER OF THE STRUCTURE SHALL HAVE AT LEAST 1/6 OF THE TENSION REINF. REQUIRED FOR NEGATIVE MOMENT AT THE SUPPORT AND 1/4 OF THE POSITIVE MOMENT REINF. REQUIRED AT MID-SPAN MADE CONTINUOUS AROUND THE PERIMETER AND TIED WITH CLOSED STIRRUPS.

GENERAL STRUCTURAL NOTES

A. REFERENCES
1. FLORIDA BUILDING CODE 2007 W/ 2009 REVISIONS
2. ASCE 7-2005
B. GENERAL

1. THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS ON THE STRUCTURAL DRAWINGS AND VERIFY SAME ON THE ARCHITECTURAL SET. ARCHITECTURAL DETAILS SUCH AS: SLAB DEPRESSIONS, WATERPROOFING, CURBS, MECHANICAL OPENINGS, FASCIA FRAMING AND BRACING SHALL BE INSTALLED AS SHOWN ON THE ARCHITECTURAL SET.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING TO ENSURE SAFE WORKING CONDITIONS AT ALL TIMES. ALL CONSTRUCTION SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2004

C . CONCRETE

1. SHALL BE A MIX DESIGNED IN ACCORDANCE WITH A.C.I. 301 (2005 EDITION) TO ACHIEVE A 28-DAY COMPRESSIVE STRENGTH OF 5,000 P.S.I. AND A MAXIMUM WATER-CEMENT RATIO OF 0.40 BY WEIGHT AND A SLUMP OF 4" ±ON ON PLAN.
2. ALL CONCRETE SHALL CONTAIN AN ENGINEER-APPROVED ASTM C-494 TYPE 'D' ADMIXTURE (WATER REDUCING RETARDER), AIR ENTRAINED AGENT SHALL CONFORM TO ASTM C-260, ACCEPTABLE AIR ENTRAINING ADMIXTURE: DAREX "AEA" BY W. R GRACE & CO., OR APPROVED EQUAL.
3. CONCRETE ON EXPOSED BALCONIES, SLABS, BEAMS AND STAIRS SHALL HAVE THE TOP SURFACE COATED WITH "ALKYL-ALKYOXY SILANE SEALER" OR ENGINEER-APPROVED EQUAL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. WATER/CEMENT RATIO IN EXPOSED BALCONIES SHALL BE 0.40 BY WEIGHT. THIS CONCRETE SHALL HAVE A STRENGTH OF 5000 P.S.I.
4. TRANSPORTATION, PLACING AND CURING OF CONCRETE SHALL COMPLY WITH A.C.I. 318 BUILDING CODE (2005)
5. ALL CONCRETE STRUCTURAL COMPONENTS SHALL HAVE CONCRETE STRENGTH TESTED IN ACCORDANCE WITH A.S.T.M. STANDARDS, F.B.C. 2007 W/ 2009 REVISION, AND A.C.I. 318 (2002). TEST CYLINDERS MUST BE TAKEN EVERY 50 CUBIC YARDS ON CONCRETE PRIOIR TO PLACEMENT. TESTING LAB SHALL PROVIDE COPIES OF CONCRETE TEST RESULTS TO ENGINEER'S OFFICE FOR REVIEW.
6. CONCRETE MIX DESIGN SHALLBE SUBMITTED TO ENGINEERS OFFICE FOR REVIEW.
7. CONTRACTOR SHALL CHECK ALL DRAWINGS AND APPLICABLE MANUFACTURER'S SHOP DRAWINGS FOR LOCATION OF ALL EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, ANCHOR BOLTS, ETC. PRIOR TO PLACING CONCRETE.

8. UNLESS OTHERWISE NOTED ON PLANS, MINIMUM CONCRETE COVER TO REINFORCING STEEL SHALL BE MAINTAINED IN ACCORDANCE WITH CHAPTER 7, SECTIONS 7.7.1, 7.7.2 & 7.7.3 OF ACI 318-1995 EDITION. SPECIFIC CONCRETE COVERS ARE GIVEN IN THE FOLLOWING:

GRADE BEAMS:	BOTT. = 3" CLEAR	
	TOP = 2" CLEAR TO TIES	
	SIDE = 2" CLEAR TO TIES	
SLAB ON GRADE:	BOTT. = 2" CLEAR WHEN POURED ON 6" MIL VAPOR BARRIER	
	TOP = 1 1/2" CLEAR	
1ST AND 2ND FLOOR SLAB: (INTERIOR, PROTECTED)	BOTT. = 3/4" CLEAR	
	TOP = 3/4" CLEAR	
(EXTERIOR , UNPROTECTED)	BOTT. = 1" CLEAR	
	TOP = 1 1/2" CLEAR	
COLUMNS & BEAMS:	AS SHOWN ON DETAILS	

9. CONC. DESIGN MIX SHALL BE REVIEWED & APPROVED BY ENGINEER OF RECORD PRIOR PLACING ANY DESIGN MIX.

D. REINFORCING STEEL

1. SHALL BE DEFORMED BARS, FREE FROM LOOSE RUST AND SCALE, & CONFORM TO A.S.T.M. A615 GRADE 60.
2. ALL ACCESSORIES SHALL HAVE UPTURNED LEGS, AND BE PLASTIC DIPPED AFTER FABRICATION. ACCESSORIES FOR REINFORCING SHALL BE INSTALLED IN ACCORDANCE WITH A.C.I. 315 (2005).
3. SUPPORT BARS SHALL BE #5 OR GREATER AND NOT SPACED MORE THAN 4'-0" O.C. SUPPORT BARS AND ENDS OF MAIN REINFORCING SHALL NOT EXTEND MORE THAN 1'-8" PAST OUTERMOST CHAIR OR SUPPORT

4. A MINIMUM OF 3 SUPPORT BARS AND 3 INDIVIDUAL HIGH CHAIRS FOR EACH SUPPORT BAR SHALL BE PROVIDED FOR TOP REINFORCING.
5. ALL PLACEMENT OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE OF THE CONCRETE REINFORCING STEEL INSTITUTE.
6. PLASTIC TIPPED COLUMN SPACERS SHALL BE PROVIDED FOR VERTICAL COLUMN REINFORCING STEEL, SUCH THAT A 2" MINIMUM CLEARANCE IS MAINTAINED.

E. STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
a. ALL WF, ANGLE BASE PLATES, CONN. PLATES (UON) --- ASTM A36 (FY=36 KSI)
b. STRUCTURAL TUBE ----------ASTM A500, GRADE B (FY=46 KSI)
c. STEEL PIPE----------ASTM A53, GRADE B (FY=36 KSI)
d. ANCHOR BOLTS (UON)----------ASTM A307
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, CORROSION PROTECTED & ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE, LATEST EDITION, EXCEPT AS MODIFIED IN THES ENOTES. PROVIDE IN SHOP ONE COAT OF RUST INHIBITING PAINT FOR ALL EXPOSED STRUCTURAL STEEL.
3. ALL EXTERIOR COLUMNS, BASE & CAP PLATES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
4. ALL ANCHOR BOLTS, HEADED STUDS SHALL BE HOT DIPPED GALVANIZED EXCEPT THAT EXPANSION BOLTS FOR REAR EXTERIOR COLUMNS SHALL BE TYPE 304 STAINLESS STEEL AS MANUFACTURED BY RAMSET/REDHEAD.
5. CONNECTIONS SHALL BE BOLTED/WELDED AS SHOWN ON PLANS. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS NOT SHOWN ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED.

6. UNLESS OTHERWISE NOTED OR SHOWN ON PLANS, CONNECTIONS AT BEAM/COLUMN AND BEAM/WALL SHALL BE DESIGNED FOR TWO-THIRDS OF THE ALLOWABLE LOAD ON THE MEMBER, AS DEFINED IN THE AISC TABLE FOR ALLOWABLE LOADS ON BEAMS.
7. GROUT FOR COLUMN BASE PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT SUCH AS MASTER FLOW 713, AS MANUFACTURED BY MASTER BUILDERS OR APPROVED EQUAL (5000 PSI MINIMUM)
8. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION. TOUCH-UP IN FIELD AT WELDS AS REQUIRED.

F. WELDING

ALL WELDING TO BE DONE BY CERTIFIED WELDERS. WELDING SHALL BE MADE WITH E70XX ELECTRODES AND CONFORM TO THE CURRENT RECOMMENDATIONS OF THE A.I.S.C. AND THE AMERICAN WELDING SOCIETY.

G. MASONRY

1. CONCRETE MASONRY UNITS SHALL COMPLY WITH THE PROVISIONS OF T HE STANDARD SPECIFICATION FOR DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY, NCMA TR-75B AND ACI 530.1.
2. HOLLOW MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE-1, "STANDARD SPECIFICATIONS FOR HOLLOW LOAD BEARING CONCRETE MASONRY UNITS"
3. MORTAR SHALL CONFORM TO ASTMC-270, TYPE 'M' WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI.
4. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD NO. 9 LADDER TYPE FOR 8" THICK MASONRY UNITS, AS MANUFACTURED BY "DUR-O-WAL", HOT DIPPED GALVANIZED, OR ENGINEER APPROVED EQUAL PLACED AT EVERY 2ND BLOCK COURSE (16" VERTICALLY) FOR ALL INTERIOR AND EXTERIOR WALLS. THE JOINT REINFORCING SHALL EXTEND 8" INTO ADJACENT COLUMNS.
5. WHEN COLUMNS ARE CONSTRUCTED FIRST, BLOCK AND COLUMN SHALL BE TIED THRU 20 GAUGE GALVANIZED CORRUGATED DOVETAIL SLOTS AND 1" X 5" X 16 GA. GALVANIZED CORRUGATED DOVETAIL ANCHORS AT THE SAME LOCATION AND SPACING AS THE HORIZONTAL JOINT REINFORCINGLED IN
6. WHENEVER ANCHOR BOLTS ARE TO BE SET IN MASONRY, TWO CELLS AT THE SETTING LOCATION SHALL BE FILLED WITH CONCRETE.
7. MAXIMUM POUR LIFT FOR MASONRY UNITS AND GROUT POUR HEIGHT SHALL BE 4'-0".
8. SLUMP 9" + 1" FOR GROUT
9. REFER TO ADDITIONAL REINFORCING NOTES ON FLOOR PLANS.
10. COMPRESSIVE STRENGTH OF UNIT MASONRY SHALL BE MIN. OF 1900 PSI RESULTING IN f'm = 1500 PSI
11. COMPRESSIVE STRENGTH OF GROUT SHALL BE 3,000 PSI @ 28 DAYS

H. NOA/SPECIALTY ENGINEER

1. ALL PRE-ENGINEERED, PREMANUFACTURED ITEMS REQUIRE MIAMI-DADE NOTICE OF APPROVAL (NOA). CERTAIN ENGINEERED ITEMS REQUIRE ANALYSIS, DESIGNS, DRAWINGS & DETAILS TO BE PROVIDED BY THE CONTRACTOR'S/MANUFACTURER'S SPECIALTY ENGINEER(S) REGISTERED TO PRACTICE IN THE STATE OF FLORIDA. THE SPECIALTY ENGINEER'S SERVICE MAY ALSO BE REQUIRED WHEN REQUESTED BY THE ENGINEER OF RECORD (EOR). THESE ITEMS INCLUDE, BUT NOT LIMITED TO:
2. FOR ITEMS THAT REQUIRE ANALYSIS, DESIGNS, DRAWINGS & DETAILS BY THE SPECIALTY ENGINEER, THE CONTRACTOR SHALL PROVIDE ALL SUCH SERVICES THRU HIS SPECIALTY ENGINEER(S) AT NO ADDITIONAL COST TO THE OWNER OR TO THE ARCHITECT/ENGINEER. ALL SUCH CALCULATIONS AND DRAWINGS SHALL BE DULY SIGNED AND SEALED BY THE CONTRACTOR'S SPECIALTY ENGINEER(S).

I. SHOP DRAWINGS

PRIOR TO FABRICATION, SUBMIT TO THE STRUCTURAL ENGINEER FOR REVIEW, FOUR SETS OF SHOP DRAWINGS FOR ALL REINFORCING & STRUCTURAL STEEL (CERTIFIED MILL TESTS ARE ALSO REQUIRED PRIOR TO ERECTION). FOR COMPONENTS OUTLINED IN NOTES 'J', SUBMIT FOUR SETS OF SHOP DRAWINGS & DESIGN CALCULATIONS SIGNED & SEALED BY FABRICATORS SPECIALTY ENGINEER REGISTERED TO PRACTICE IN THE STATE OF FLORIDA.

J. BRACING

1. THE FRAME SHALL BE BUILT TRUE AND PLUMB AND TEMPORARY BRACING SHALL BE INTRODUCED WHEREEVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED. INCLUDING EQUIPMENT AND OPERATION OF SAME. SUCH BRACING SHALL BE THE REPSONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE LEFT IN PLACE AS LONG AS REQUIRED FOR SAFETY.
2. PRECAST STRUCTURES MUST HAVE ERECTION BRACING TO SUSTAIN WIND VELOCITY OF 75 M.P.H. AND CONTRACTOR SHALL PROVIDE BRACING SHOP DRAWINGS SIGNED AND SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

K. WOOD

1. WOOD MEMBERS IN CONVENTIONAL FRAMING SHALL BE SOUTHERN PINE #2 WITH A MINIMUM ALLOWABLE BENDING STRESS OF 1,000 P.S.I.± MINIMUM ALLOWABLE SHEAR STRESS OF 70 P.S.I. AND MODULUS OF ELASTICITY OF 1,200,000 P.S.I. AT 19% MOISTURE CONTENT IN ACCORDANCE WITH A.I.T.C. STANDARDS.
2. TRUSSES TO BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR LOADS PER APPLICABLE BUILDING CODE AND/OR AS SHOWN ON DRAWINGS.
3. WOOD MEMBERS IN CONVENTIONAL FRAMING SHALL BE SOUTHERN YELLOW PINE STRUCTURAL GRADE #2 WITH A 19 % MOISTURE CONTENT W/ Fb=1000 psi, E=1600 KSI.

L. SHORING

1. FORMS AND SHORING FOR CONCRETE SLABS AND BEAMS SHALL BE DESIGNED TO WITHSTAND THE DEAD LOAD OF CONCRETE AND THE ANTICIPATED CONSTRUCTION LOADS.
2. WHEN CASTING A SLAB, THERE SHALL BE SHORING BELOW IT CONTINUOUS TO THE GROUND.
3. IN NO CASE SHALL SLAB AND BOTTOM BEAM FORMS BE STRIPPED EARLIER THAN 21 DAYS AFTER PLACEMENT AND UNTIL THE COMPRESSIVE STRENGTH OF 3,200 P.S.I. (FOR 4,000 P.S.I.) AND 4,000 P.S.I. (FOR 5,000 P.S.I.) HAS BEEN ATTAINED.
4. THE SYSTEM OF SHORING SHALL BE INSPECTED AND APPROVED BY THE CONTRACTOR'S SPECIALTY ENGINEER PRIOR TO INSPECTION OF BY THE THRESHOLD/SPECIAL INSPECTOR.
5. DESIGN AND CONSTRUCTION OF FORMWORK AND SHORING SHALL COMPLY WITH THE A.C.I. 318 BUILDING CODE (LATEST EDITION) AND BE ENTIRELY THE REPSONSIBILITY OF THE GENERAL CONTRACTOR.
6. SHORING DRAWINGS SHALL BE PROVIDED BY GENERAL CONTRACTOR AND SHALL BE DESIGNED, SIGNED AND SEALED BY THE CONTRACTOR'S SPECIALTY ENGINEER REGISTERED TO PRACTICE IN THE STATE OF FLORIDA.

M. LINTELS

ALL DOOR AND WINDOW OPENINGS IN LOAD BEARING AND NON-LOAD BEARING MASONRY WALLS SHALL HAVE EITHER CAST-IN-PLACE OR PRECAST CONCRETE LINTELS, IF P/C LINTELS ARE USED, PROVIDE MIAMI-DADE NOA'S FOR ALL SUCH LINTELS. UNLESS OTHERWISE NOTED, PROVIDE CAST-IN-PLACE LINTELS.

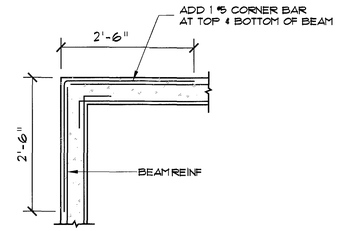
N. CORROSION PROTECTION

1. FOR ALL CONCRETE BALCONIES & EXPOSED CONCRETE PROVIDE WATER BASE SEALER EQUAL TO ENVIROSEAL 40 BY HYDROZO.

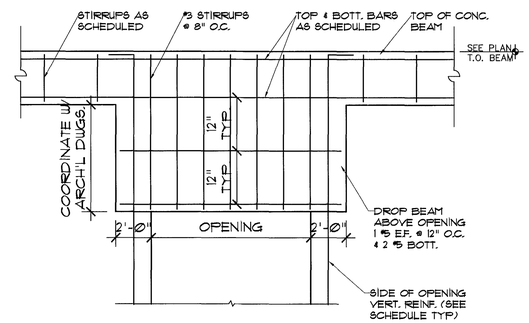
O. WOOD TRUSS GENERAL NOTES:
THE TRUSS LAYOUT SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. HOWEVER, THE SUPPORTING SUPERSTRUCTURE HAS BEEN DESIGNED UNDER THE ASSUMPTION THAT THE FRAMING SCHEME SHOWN WILL PARALLEL FINAL TRUSS DESIGNERS LAYOUT. THIS FRAMING SCHEME (DIRECTION OF TRUSSES, MAJOR G.T. BEARING POINTS, ETC.) CAN BE MODIFIED ONLY AFTER OBTAINING PERMISSION FROM THE ENGINEER OF RECORD WHO MUST REVIEW PROPOSED CHANGES AND AUTHORIZE STRUCTURAL REVISIONS ACCORDINGLY. FINAL SIGNED AND SEALED ENGINEERED TRUSS DESIGN MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW AS PER GENERAL NOTES. TRUSS DESIGNERS MUST PROVIDE ALL TRUSS TO TRUSS CONNECTIONS AS PART OF THIS DESIGN.

ADDITIONAL NOTES FOR TIE BEAMS :

1. TYP. TIE BEAM REINF. SHALL BE CONT. & LAPS FOR TOP & BOTT. REINF. SHALL BE STAGGERED.
2. WHERE TIE BEAMS FORM CORNERS OR ACUTE / OBTUSE ANGLES, THE REINF. SHALL BE LAPPED W/ TOP & BOTT. 2'-6"x 2'-6" LAP BARS OF MATCHING ANGLES @ ACUTE/OBTUSE ANGLES.
3. WHERE TIE BEAM TERMINATES WITHOUT FORMING A CORNER OR ANGLES, THE TOP REINF. SHALL BE HOOKED OR EXTENDED INTO ADJACENT SLAB AS THE CASE MAY BE (PER TYP. BEAM DIAGRAM).
4. WHERE TIE BEAM OCCURS ADJACENT TO A DESIGNED BEAM, THE TIE BEAM REINF. SHALL BE EXTENDED INTO THE DESIGNED BEAM FOR CLASS "C" LAPS.
5. UNLESS OTHERWISE NOTED TIES FOR THE TIE BEAMS SHALL BE 4 #3@ 12" @ EA. CORNER & BEND 4 ON EACH SIDE OF INTERMEDIATE COLUMNS & FOR THE REMAINDER LENGTH PROVIDE #3 @ 48" O.C.



TIE BEAM CORNER PLAN DETAIL (A)



DROP BEAM DETAIL (B)

SCALE : 3/4" = 1'-0"

DESIGN LOADS :

1. S.I.D.L. = 35PSF
NOT INCLUDING SELF WEIGHT OF DECK.

2. LIVE LOAD = 100 PSF

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GEN. STRUCTURAL NOTES

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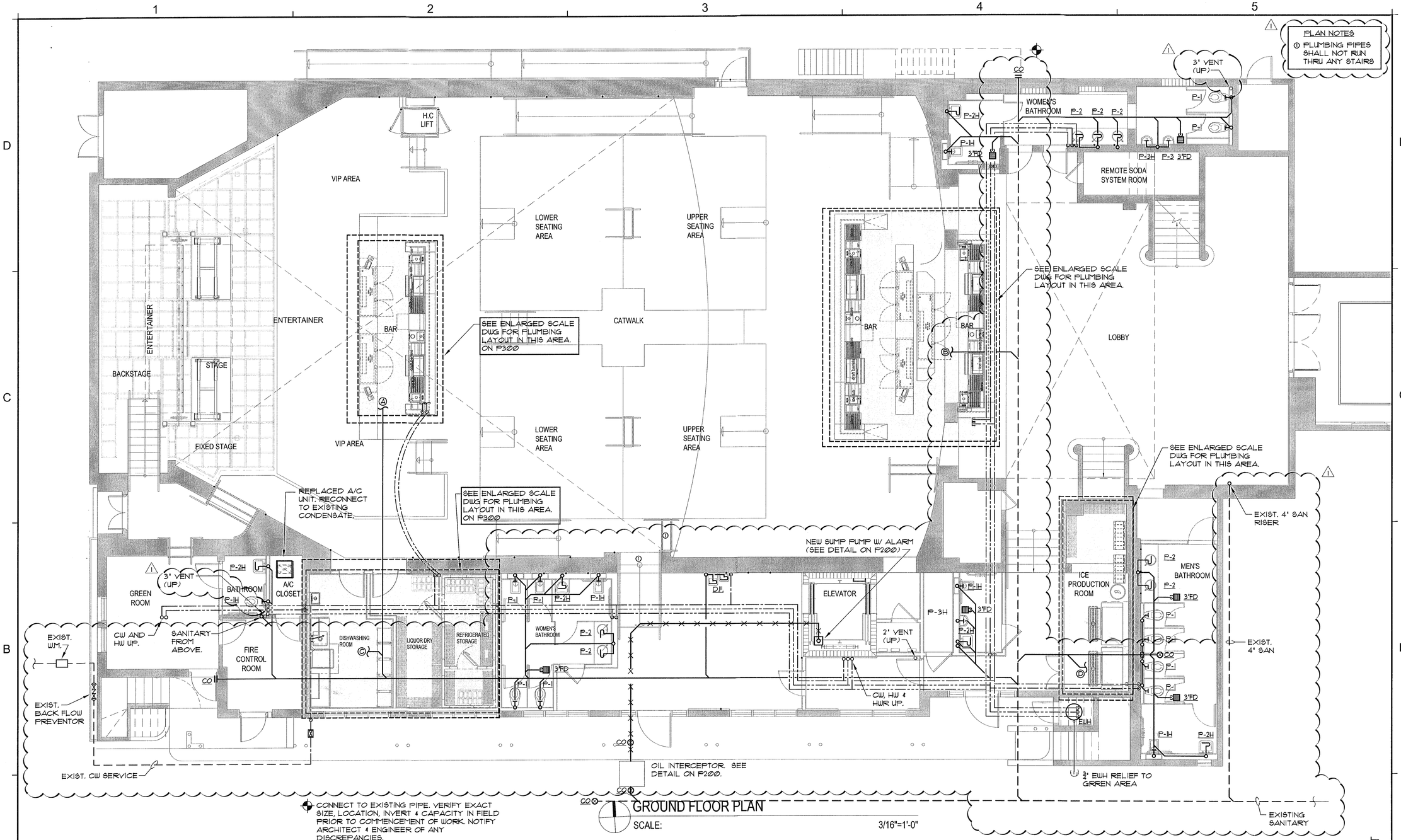

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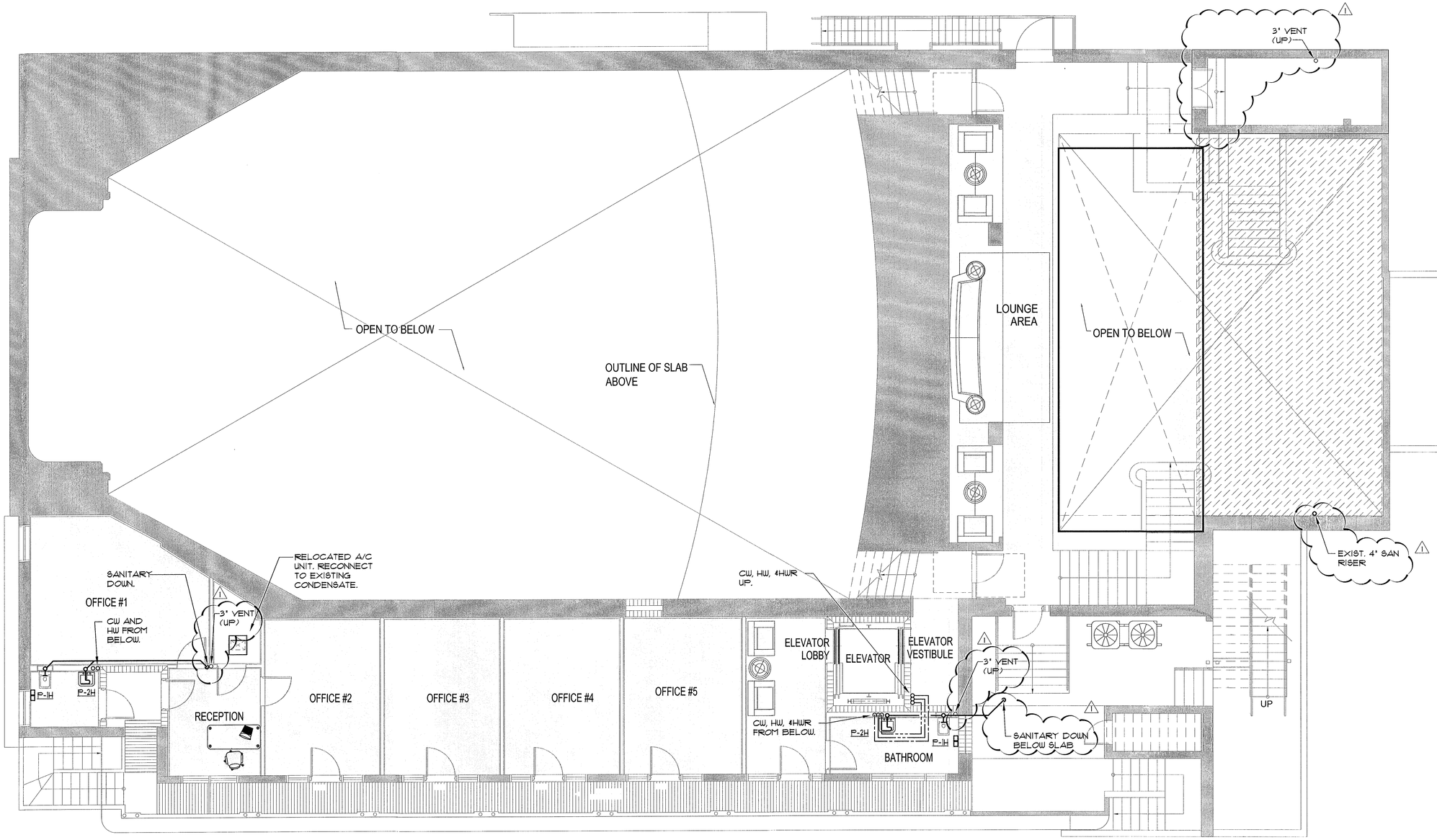

SECOND FLOOR PLAN

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

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SECOND FLOOR PLAN

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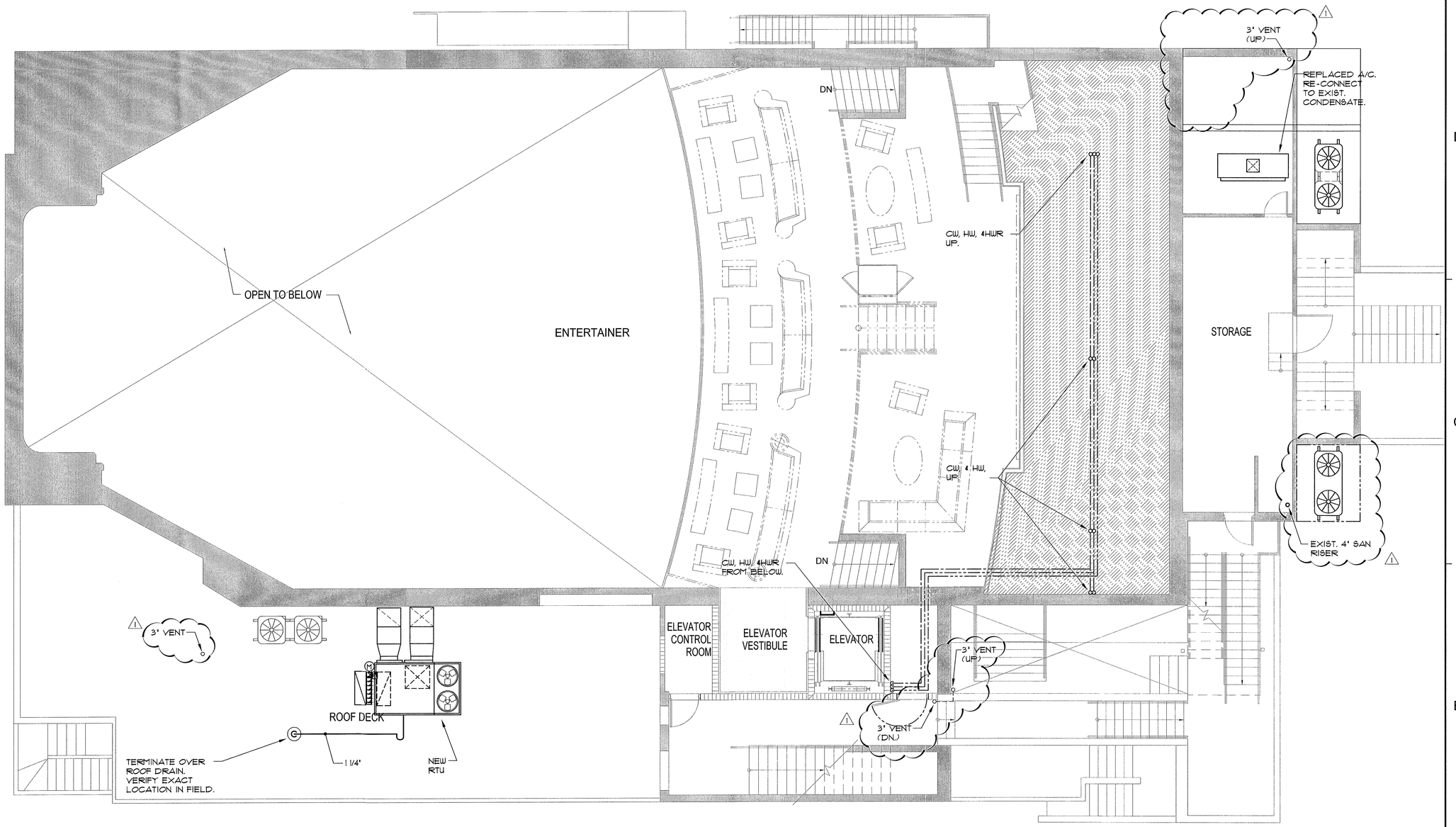
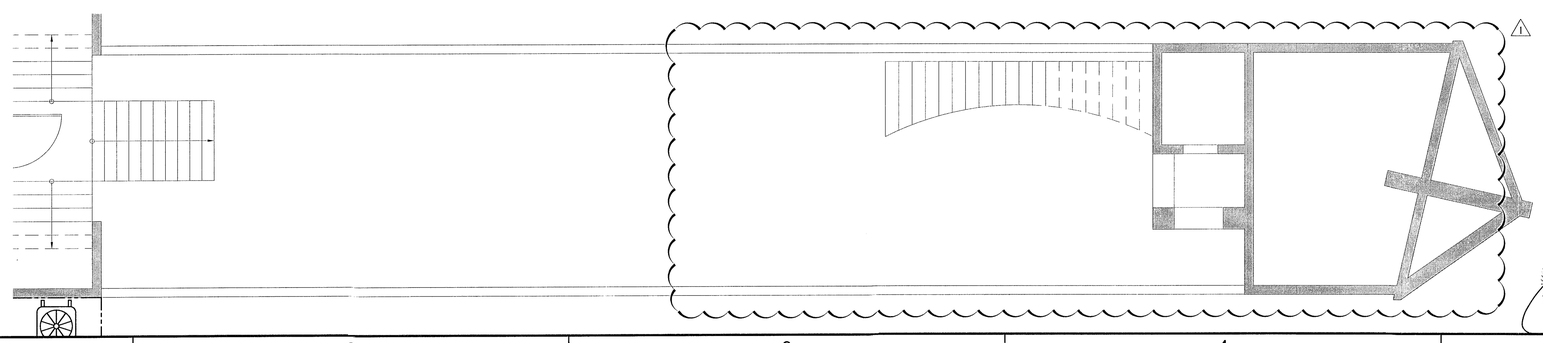


THIRD FLOOR PLAN

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



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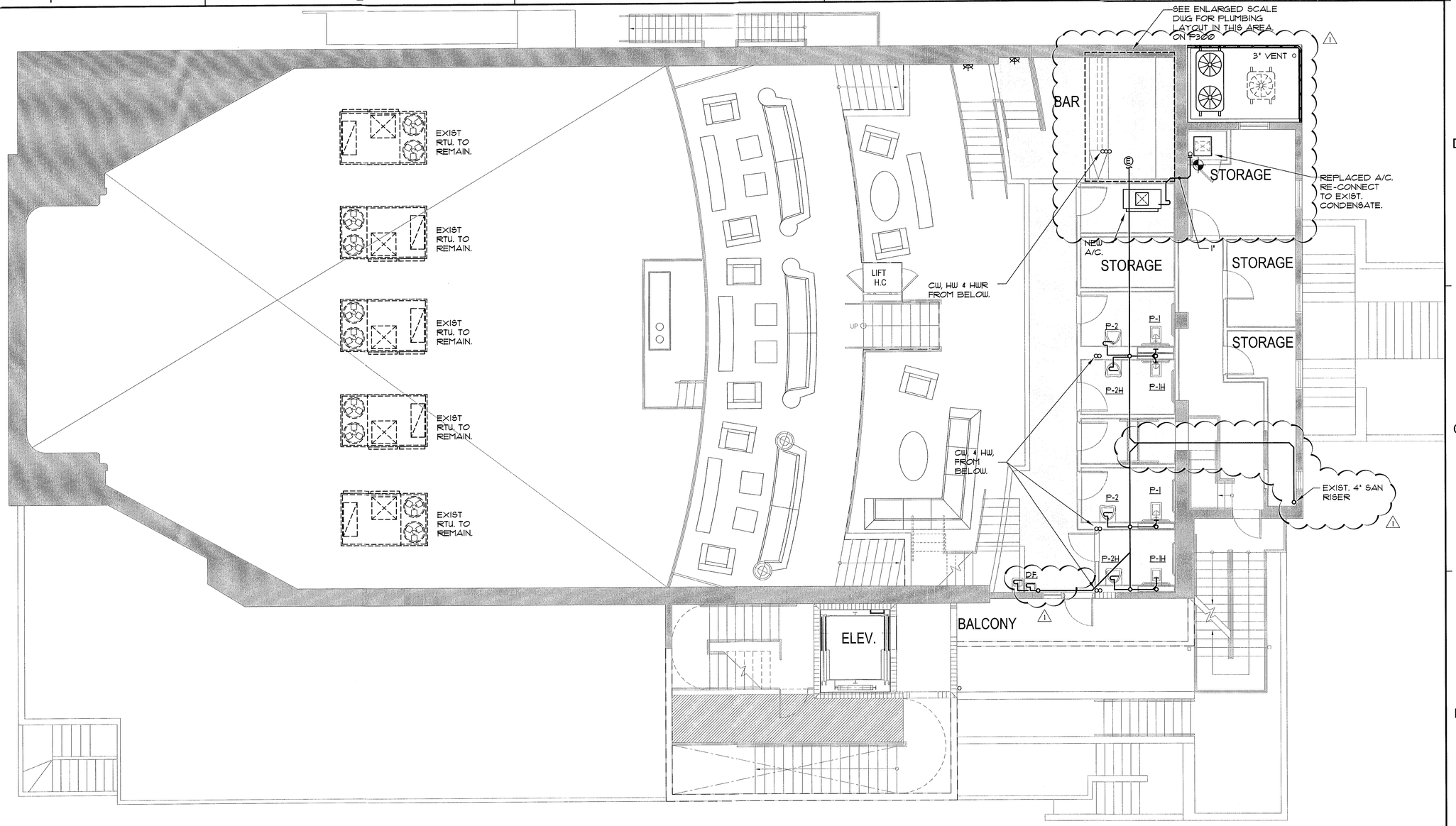

FOURTH FLOOR PLAN

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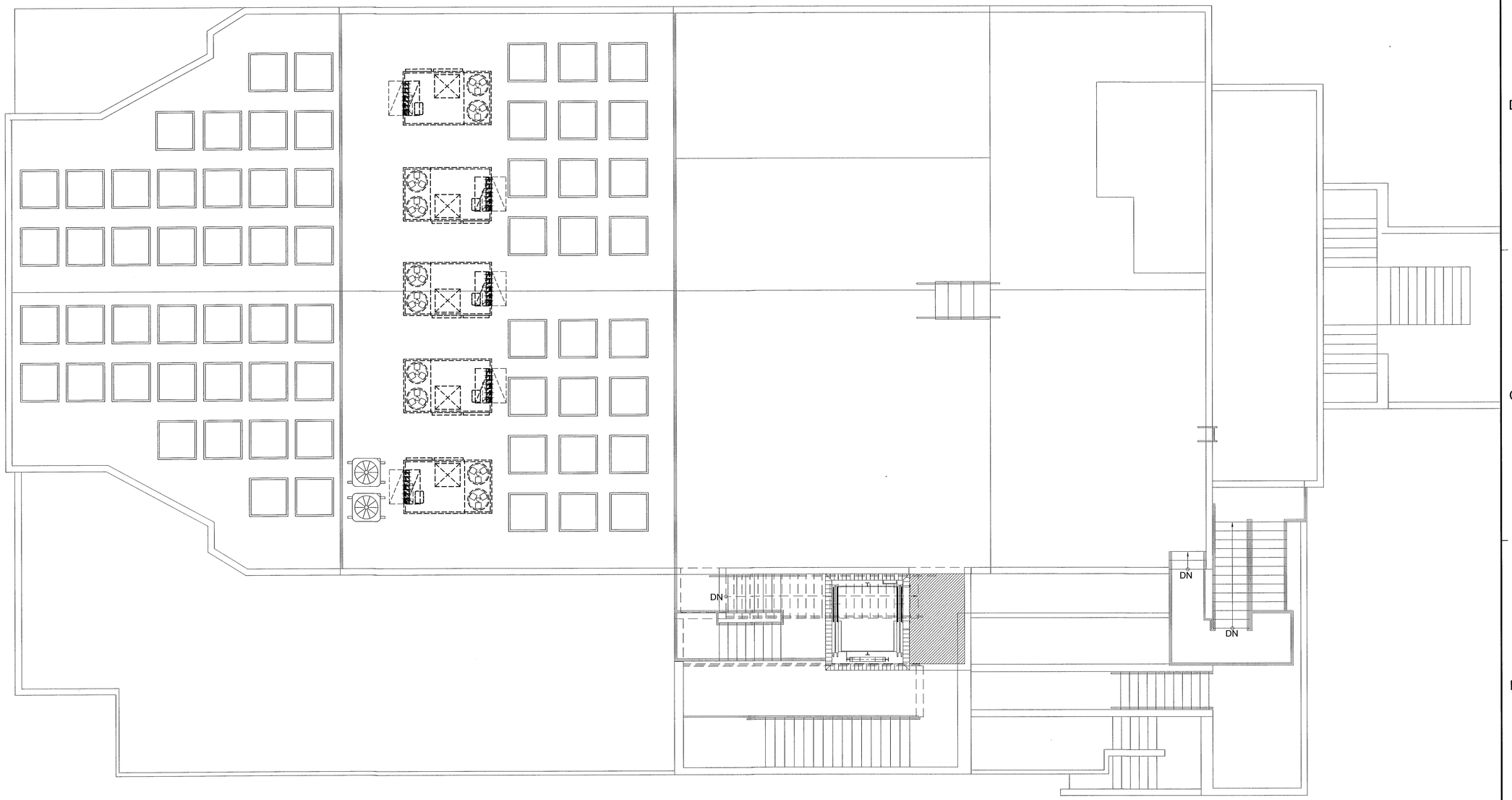

ROOF PLAN

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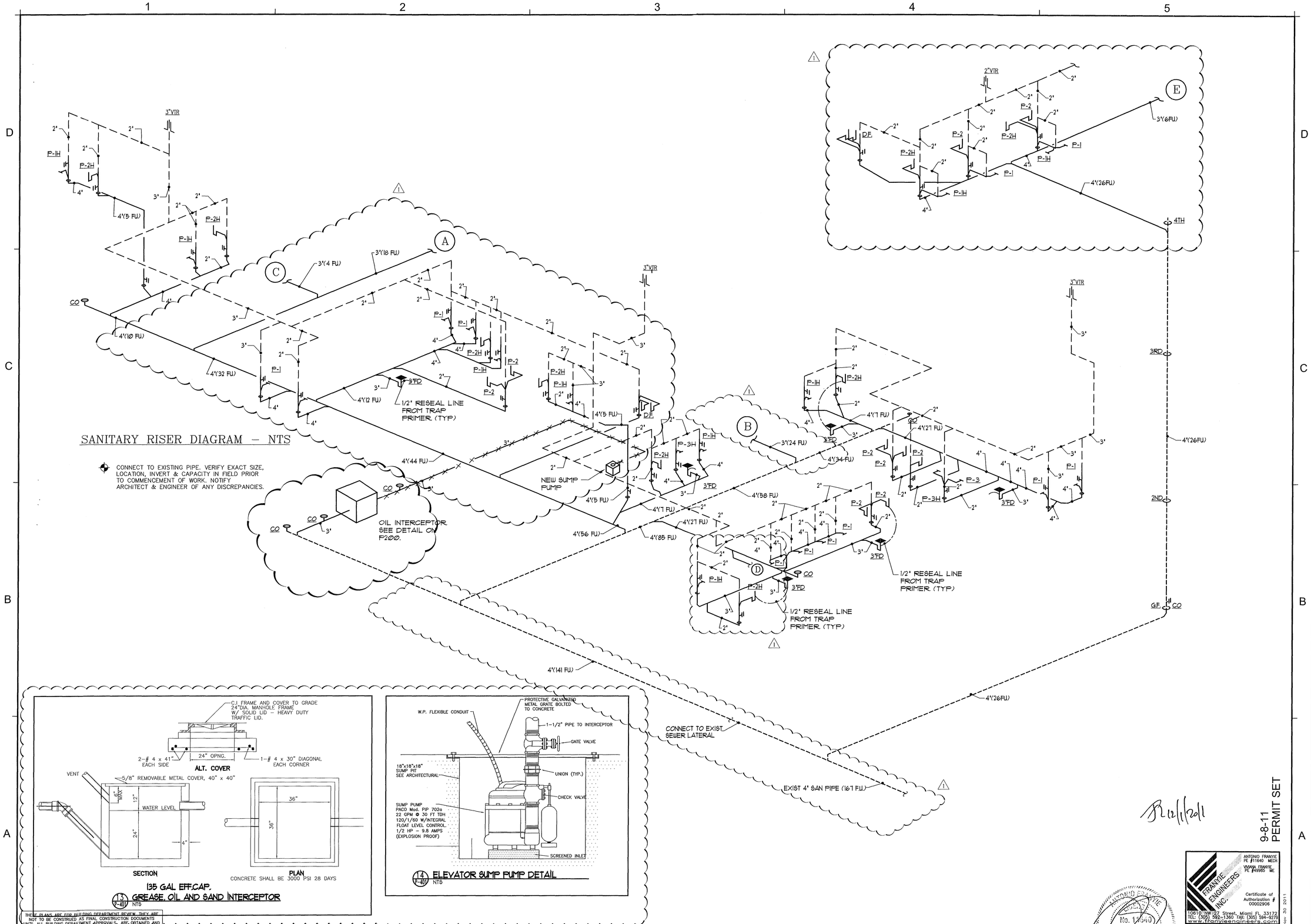

13 P-401 GREASE, OIL AND SAND INTERCEPTOR
NTS

14 P-401 ELEVATOR SUMP PUMP DETAIL
NTS

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P-200

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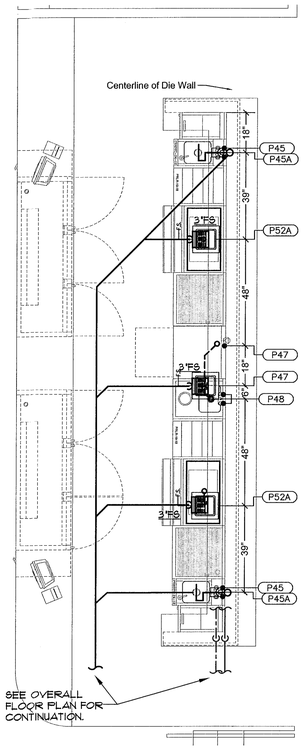
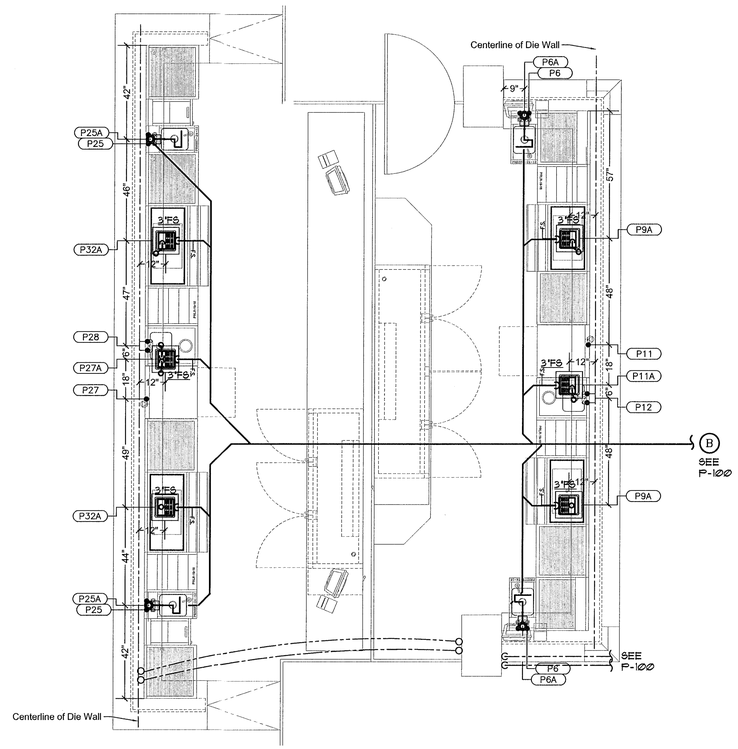


A Bar Plumbing Rough-in Plan
Scale: 3/8" = 1'-0"



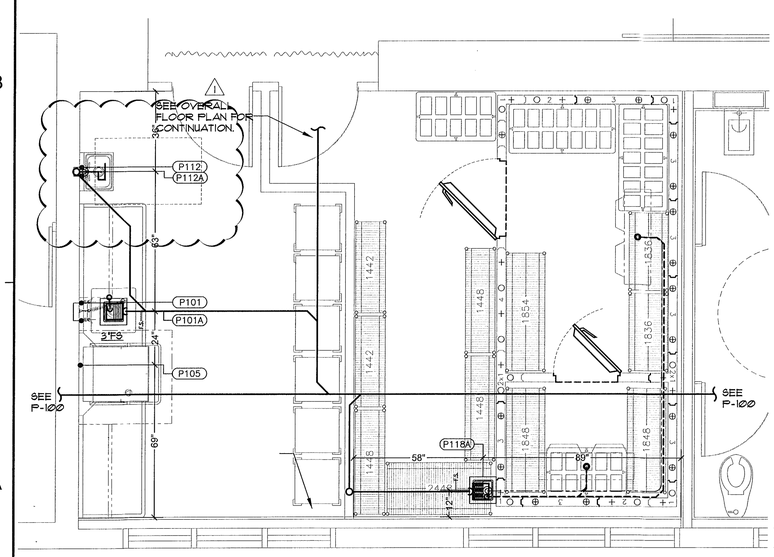
B Bar Plumbing Rough-in Plan
Scale: 3/8" = 1'-0"

Plumbing Schedule

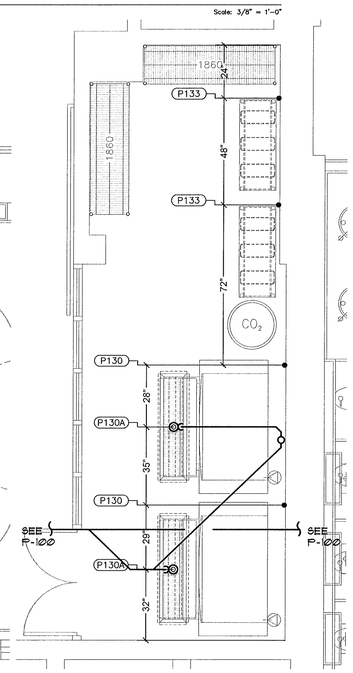
ITEM No.	Quantity	Rough-in Description
P6	2	½" CW - ½"HW @ 14" AFF
P6A	2	1½" Waste @ 12" AFF
P9A	2	Floor Sink for I.D. Waste
P11	1	½" HW 140° @ 6" AFF
P11A	1	Floor Sink for I.D. Waste
P12	1	½" CW - ½"HW @ 14" AFF
P25	2	½" CW - ½"HW @ 14" AFF
P25A	2	1½" Waste @ 12" AFF
P27	1	½" HW 140° @ 6" AFF
P27A	1	Floor Sink for I.D. Waste
P28	1	½" CW - ½"HW @ 14" AFF
P32A	2	Floor Sink for I.D. Waste
P45	2	½" CW - ½"HW @ 14" AFF
P45A	2	1½" Waste @ 12" AFF
P47	1	Floor Sink for I.D. Waste
P47	1	½" HW 140° @ 6" AFF
P48	1	½" CW - ½"HW @ 14" AFF
P52A	2	Floor Sink for I.D. Waste
P101	1	½" CW - ½" HW @ 18" AFF
P101A	1	Floor Sink for Indirect Waste Drain
P105	1	½" HW @ 24" AFF
P112	1	½" CW - ½" HW @ 24" AFF
P112A	1	1½" Direct Waste @ 112" AFF
P118A	1	Floor Sink for Indirect Waste Drain
P130	2	½" CW @ 60" AFF
P130A	2	Water Receptacle, 3"Ø Drain
P133	2	½" CW @ 60" AFF
P206	1	½" CW - ½"HW @ 14" AFF
P206A	1	1½" Waste @ 12" AFF
P211	1	½" HW 140° @ 6" AFF
P211A	1	Floor Sink for I.D. Waste
P212	1	½" CW - ½"HW @ 14" AFF

Equipment Schedule

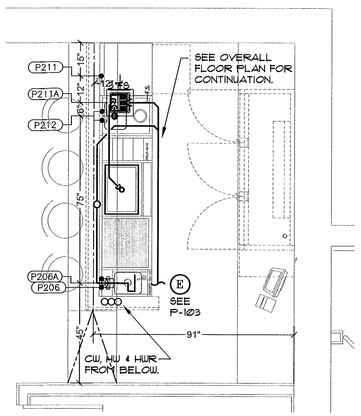
Item No.	Quantity	Equipment Catagory	Manufacture	Model Number	Remark
1	1	Spare Number			
2	1	Bar Millwork	By Others	-	
3	1	Back Bar Millwork	By Others		
4	1	Back Bar Equipment	Perlick	BS108**L	
5	2	POS/Printer	By Others	-	NIKEC
6	2	Underbar Handsink	SupremeMetal	PRHSST-24-12	
7	1	Underbar Fillers & Drainboards	SupremeMetal	PRD-24-24	
8	2	Underbar Liquor Display	SupremeMetal	PRLR-19-18	
9	2	Underbar Ice Chest	SupremeMetal	PRI-19-30-10-XD	
9.1	2	Underbar Speed Rail	SupremeMetal	PRDSR-30	
10	2	Underbar Glass Rack	SupremeMetal	PRCR-19-24	
11	1	Warewasher, Undercounter, High Temp	Meiko USA	FV 40.2	
12	1	Underbar Wet/Dry Waste Cabinet	SupremeMetal	PRWC-19-18	
13	1	Spare Number			
14	1	Underbar Fillers & Drainboards	SupremeMetal	PRD-24-24	
15	1	Prestige Modular Bar Die	SupremeMetal	PR-BARDIE	
20	1	Spare Number			
21	1	Bar Millwork	By Others	-	
22	1	Back Bar Millwork	By Others		
23	1	Back Bar Equipment	Perlick	BS84**R	
24	1	Back Bar Equipment	Perlick	BS84**L	
25	2	Underbar Handsink	SupremeMetal	PRHSST-24-12	
26	2	Underbar Liquor Display	SupremeMetal	PRLR-19-18	
27	1	Warewasher, Undercounter, High Temp	Meiko USA	FV 40.2	
28	1	Underbar Wet/Dry Waste Cabinet	SupremeMetal	PRWC-19-18	
29	2	POS/Printer	By Others	-	NIKEC
30	4	Underbar Glass Rack	SupremeMetal	PRCR-19-24	
31	2	Underbar Trash Unit	SupremeMetal	PRT-12	
32	2	Underbar Ice Chest	SupremeMetal	PRI-19-36-10-XD	
32.1	2	Underbar Speed Rail	SupremeMetal	PRDSR-36	
33	1	Prestige Modular Bar Die	SupremeMetal	PR-BARDIE	
40	1	Spare Number			
41	1	Bar Millwork	By Others	-	
42	1	Back Bar Millwork	By Others		
43	1	Back Bar Equipment	Perlick	BS84**R	
44	1	Back Bar Equipment	Perlick	BS84**L	
45	2	Underbar Handsink	SupremeMetal	PRHSST-24-12	
46	2	Underbar Liquor Display	SupremeMetal	PRLR-19-18	
47	1	Warewasher, Undercounter, High Temp	Meiko USA	FV 40.2	
48	1	Underbar Wet/Dry Waste Cabinet	SupremeMetal	PRWC-19-18	
49	2	POS/Printer	By Others	-	NIKEC
50	2	Underbar Glass Rack	SupremeMetal	PRCR-19-24	
51	2	Underbar Trash Unit	SupremeMetal	PRT-12	
52	2	Underbar Ice Chest	SupremeMetal	PRI-19-30-10-XD	
52.1	2	Underbar Speed Rail	SupremeMetal	PRDSR-30	
53	1	Prestige Modular Bar Die	SupremeMetal	PR-BARDIE	
100	1	Spare Number			
101	1	Dishtable, Straight	Advance Tabco	DTS-S60-72R	To 65"
102	1	Pre-Rinse Faucet, Wall Mount	T & S Brass	B-0133-B	
103	2	Dishtable, Sorting Shelf	Advance Tabco	DT-6R-12	
104	1	Spare Number			
105	1	Warewasher, Door Type, High Temp	Meiko USA	DV 80.2	
106	1	Hood, Exhaust, Condensate	CaptiveAire	Custom	
107	1	Dishtable, Straight	Advance Tabco	DTC-S60-60L	To 52"
108	2	Dishtable, Sorting Shelf	Advance Tabco	DT-6R-12	
109	1	Spare Number			
110	6	Dolly, Dishrack	InterMetro Industries	d2020N	
112	1	SERVICE SINK			
113	1	Spare Number			
114	1	Spare Number			
115	6	Shelving, Wire	InterMetro Industries	BR Series as Shown	
116	1	Rack, Dunnage	InterMetro Industries	HP2236PD	
117	1	Spare Number			
118	1	Refrigerator, Walk-In	Arctic	Custom	See Mfr's Spec
118.1	1	Evaporator Coil	Arctic	Custom	
118.2	1	Refrigeration Compressor, Remote	Arctic	Custom	
119	1	Refrigerator, Walk-In	Arctic	Custom	See Mfr's Spec
119.1	1	Evaporator Coil	Arctic	Custom	
119.2	1	Refrigeration Compressor, Remote	Arctic	Custom	
120	1	Shelving, Wire	InterMetro Industries	NK3 as Shown	
121	2	Rack, Dunnage	InterMetro Industries	HP2248PD	
122	1	Rack, Dunnage	InterMetro Industries	HP2236PD	
130	2	Ice Maker w/o Bin	Manitowoc Ice	SD-3072C	
130.1	2	Icemaker Condenser, Remote	Manitowoc Ice	CVD-3085	
130.2	2	Bin, Ice	Manitowoc Ice	F-1325	
131	2	Floor Drain	Advance Tabco	FRG-48	
132	1	CO2 Tank	by Local Vendor	-	NIKEC
133	2	Soda System, w/ Bag-in-Box Rack	by Local Vendor		NIKEC
134	2	Shelving, Wire	InterMetro Industries	BR Series as Shown	
201	1	Spare Number			
202	1	Bar Millwork	By Others	-	
203	1	Back Bar Millwork	By Others		
204	1	Back Bar Equipment	Perlick	BS84**R	
205	1	POS/Printer	By Others	-	NIKEC
206	1	Underbar Handsink	SupremeMetal	PRHSST-24-12	
208	1	Underbar Liquor Display	SupremeMetal	PRLR-19-12	
209	1	Underbar Ice Chest	SupremeMetal	PRI-19-24-10-XD	
209.1	1	Underbar Speed Rail	SupremeMetal	PRSSR-24	
210	1	Underbar Glass Rack	SupremeMetal	PRCR-19-24	
211	1	Warewasher, Undercounter, High Temp	Meiko USA	FV 40.2	
212	1	Underbar Wet/Dry Waste Cabinet	SupremeMetal	PRWC-19-18	
213	1	Prestige Modular Bar Die	SupremeMetal	PR-BARDIE	



C Warewash, Dry & Cold Storage Area – Plumbing Rough-in
Scale: 3/8" = 1'-0"



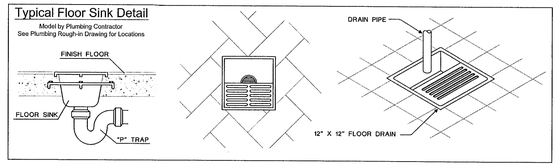
D Ice & Soda Area – Plumbing Rough-in
Scale: 3/8" = 1'-0"



E 4th Floor Bar – Plumbing Rough-in
Scale: 3/8" = 1'-0"

Typical Floor Sink Detail

Model by Plumbing Contractor
See Plumbing Rough-in Drawing for Locations



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11/21/2011

9-8-11
PERMIT SET

ANTONIO FRANYIE
PE #11640 MECH
VIANNA FRANYIE
PE #49985 ME
FRANYIE ENGINEERS INC
Certificate of Authorization # 00002905
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www.franyieengineers.com
DESIGN | DRAWN | 9-8-11
JOB NUMBER 11-210

ANTONIO FRANYIE LICENSE No. 11640 STATE OF FLORIDA PROFESSIONAL ENGINEER
No. 30, 2011

REVISIONS / SUBMISSIONS

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BAMBOO GROUP INC.
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MIAMI BEACH, FLORIDA

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Lic. # AR0012573

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

P-300

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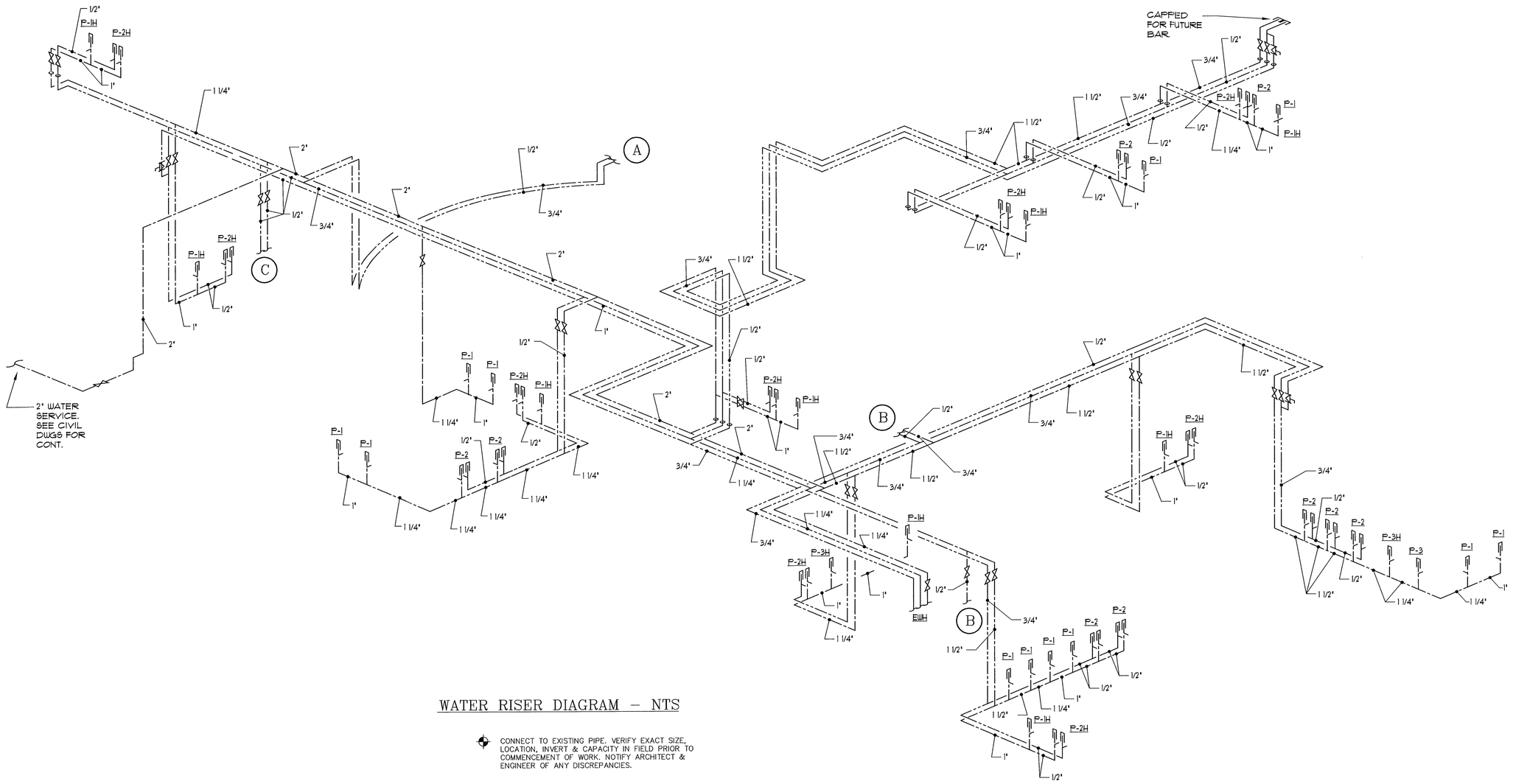

WATER RISER DIAGRAM – NTS

CONNECT TO EXISTING PIPE. VERIFY EXACT SIZE, LOCATION, INVERT & CAPACITY IN FIELD PRIOR TO COMMENCEMENT OF WORK. NOTIFY ARCHITECT & ENGINEER OF ANY DISCREPANCIES.

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

ANTONIO FRANYIE LICENSE No. 11640 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 3 2011

FD PRINTED: Nov 3 2011

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BAMBOO GROUP INC.
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MIAMI BEACH, FLORIDA

WATER ISOMETRIC

Lic. # AR0012578

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K • B I K A R P

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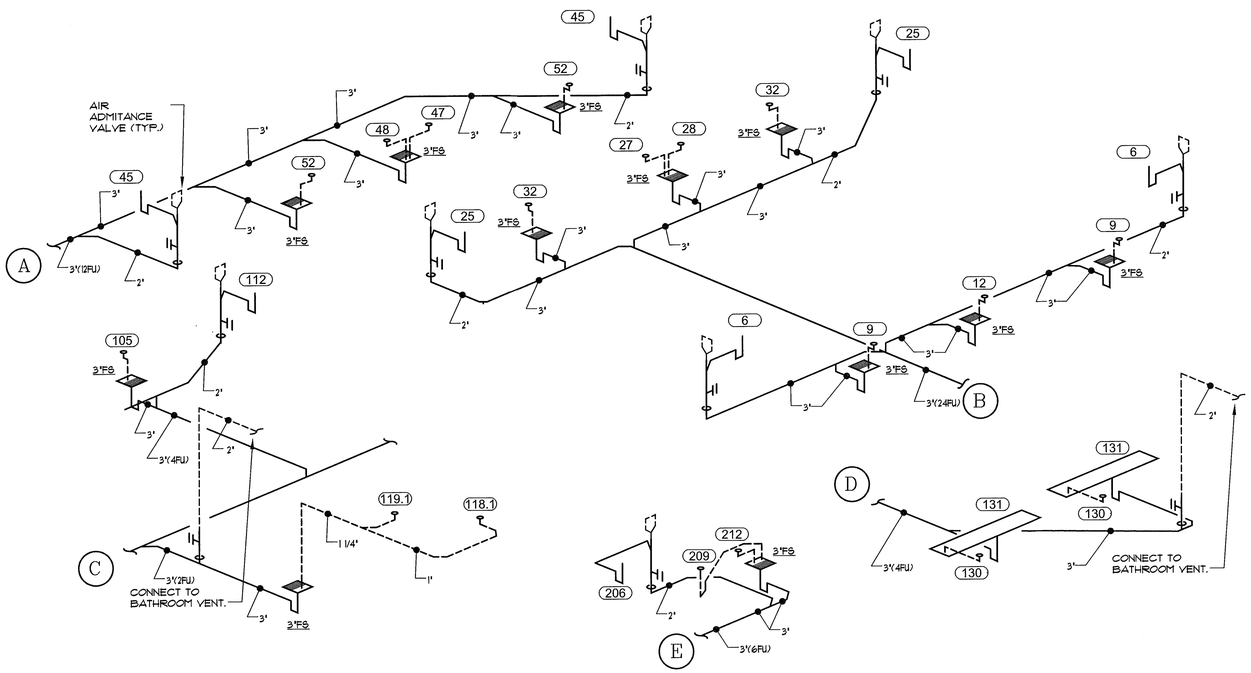
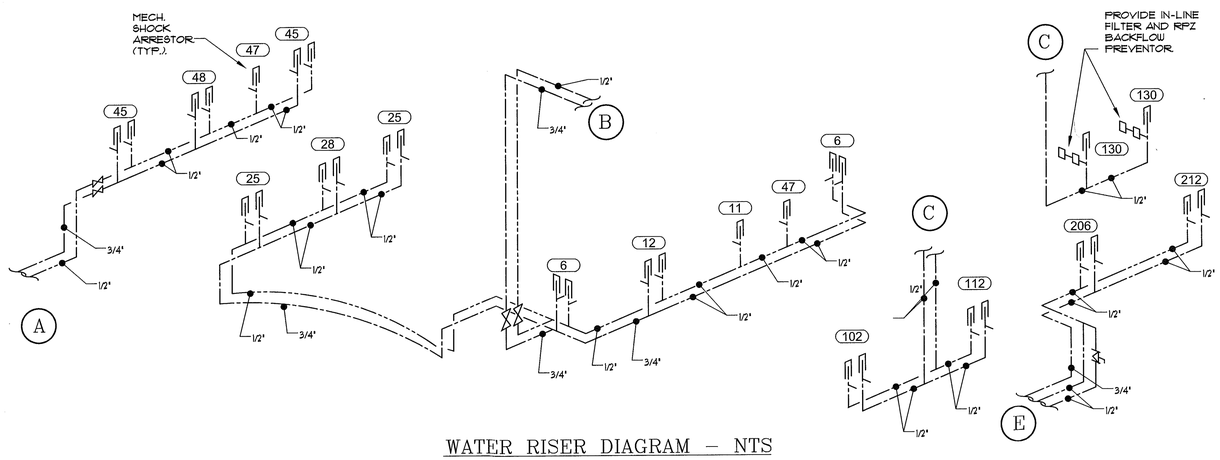
CHECKED BY:	JG
DATE:	09-08-11

P-201



SANITARY RISER DIAGRAM – NTS



WATER RISER DIAGRAM – NTS

Equipment Schedule

Item No.	Quantity	Equipment Catagory	Manufacture	Model Number	Remark
1	1	Spare Number			
2	1	Bar Millwork	By Others	-	
3	1	Back Bar Millwork	By Others		
4	1	Back Bar Equipment	Perlick	BS108**L	
5	2	POS/Printer	By Others	-	NIKEC
6	2	Underbar Handsink	SupremeMetal	PRHSST-24-12	
7	1	Underbar Fillers & Drainboards	SupremeMetal	PRD-24-24	
8	2	Underbar Liquor Display	SupremeMetal	PRLR-19-18	
9	2	Underbar Ice Chest	SupremeMetal	PRI-19-30-10-XD	
9.1	2	Underbar Speed Rail	SupremeMetal	PRDSR-30	
10	2	Underbar Glass Rack	SupremeMetal	PRCR-19-24	
11	1	Warewasher, Undercounter, High Temp	Meiko USA	FV 40.2	
12	1	Underbar Wet/Dry Waste Cabinet	SupremeMetal	PRWC-19-18	
13	1	Spare Number			
14	1	Underbar Fillers & Drainboards	SupremeMetal	PRD-24-24	
15	1	Prestige Modular Bar Die	SupremeMetal	PR-BARDIE	
20	1	Spare Number			
21	1	Bar Millwork	By Others	-	
22	1	Back Bar Millwork	By Others		
23	1	Back Bar Equipment	Perlick	BS84**R	
24	1	Back Bar Equipment	Perlick	BS84**L	
25	2	Underbar Handsink	SupremeMetal	PRHSST-24-12	
26	2	Underbar Liquor Display	SupremeMetal	PRLR-19-18	
27	1	Warewasher, Undercounter, High Temp	Meiko USA	FV 40.2	
28	1	Underbar Wet/Dry Waste Cabinet	SupremeMetal	PRWC-19-18	
29	2	POS/Printer	By Others	-	NIKEC
30	4	Underbar Glass Rack	SupremeMetal	PRCR-19-24	
31	2	Underbar Trash Unit	SupremeMetal	PRT-12	
32	2	Underbar Ice Chest	SupremeMetal	PRI-19-36-10-XD	
32.1	2	Underbar Speed Rail	SupremeMetal	PRDSR-36	
33	1	Prestige Modular Bar Die	SupremeMetal	PR-BARDIE	
40	1	Spare Number			
41	1	Bar Millwork	By Others	-	
42	1	Back Bar Millwork	By Others		
43	1	Back Bar Equipment	Perlick	BS84**R	
44	1	Back Bar Equipment	Perlick	BS84**L	
45	2	Underbar Handsink	SupremeMetal	PRHSST-24-12	
46	2	Underbar Liquor Display	SupremeMetal	PRLR-19-18	
47	1	Warewasher, Undercounter, High Temp	Meiko USA	FV 40.2	
48	1	Underbar Wet/Dry Waste Cabinet	SupremeMetal	PRWC-19-18	
49	2	POS/Printer	By Others	-	NIKEC
50	2	Underbar Glass Rack	SupremeMetal	PRCR-19-24	
51	2	Underbar Trash Unit	SupremeMetal	PRT-12	
52	2	Underbar Ice Chest	SupremeMetal	PRI-19-30-10-XD	
52.1	2	Underbar Speed Rail	SupremeMetal	PRDSR-30	
53	1	Prestige Modular Bar Die	SupremeMetal	PR-BARDIE	
100	1	Spare Number			
101	1	Dishtable, Straight	Advance Tabco	DTS-S60-72R	To 65"
102	1	Pre-Rinse Faucet, Wall Mount	T & S Brass	B-0133-B	
103	2	Dishtable, Sorting Shelf	Advance Tabco	DT-6R-12	
104	1	Spare Number			
105	1	Warewasher, Door Type, High Temp	Meiko USA	DV 80.2	
106	1	Hood, Exhaust, Condensate	CaptiveAire	Custom	
107	1	Dishtable, Straight	Advance Tabco	DTC-S60-60L	To 52"
108	2	Dishtable, Sorting Shelf	Advance Tabco	DT-6R-12	
109	1	Spare Number			
110	6	Dolly, Dishrack	InterMetro Industries	D2020N	
112	1	Sink, Hand, Wall Mount	Advance Tabco	7-PS-66	
113	1	Spare Number			
114	1	Spare Number			
115	6	Shelving, Wire	InterMetro Industries	BR Series as Shown	
116	1	Rack, Dunnage	InterMetro Industries	HP2236PD	
117	1	Spare Number			
118	1	Refrigerator, Walk-In	Arctic	Custom	See Mfr's Spec
118.1	1	Evaporator Coil	Arctic	Custom	
118.2	1	Refrigeration Compressor, Remote	Arctic	Custom	
119	1	Refrigerator, Walk-In	Arctic	Custom	See Mfr's Spec
119.1	1	Evaporator Coil	Arctic	Custom	
119.2	1	Refrigeration Compressor, Remote	Arctic	Custom	
120	1	Shelving, Wire	InterMetro Industries	NK3 as Shown	
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122	1	Rack, Dunnage	InterMetro Industries	HP2236PD	
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130.1	2	Icemaker Condenser, Remote	Manitowoc Ice	CVD-3085	
130.2	2	Bin, Ice	Manitowoc Ice	F-1325	
131	2	Floor Drain	Advance Tabco	FRG-48	
132	1	CO2 Tank	by Local Vendor	-	NIKEC
133	2	Soda System, w/ Bag-in-Box Rack	by Local Vendor	-	NIKEC
134	2	Shelving, Wire	InterMetro Industries	BR Series as Shown	
201	1	Spare Number			
202	1	Bar Millwork	By Others	-	
203	1	Back Bar Millwork	By Others		
204	1	Back Bar Equipment	Perlick	BS84**R	
205	1	POS/Printer	By Others	-	NIKEC
206	1	Underbar Handsink	SupremeMetal	PRHSST-24-12	
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209	1	Underbar Ice Chest	SupremeMetal	PRI-19-24-10-XD	
209.1	1	Underbar Speed Rail	SupremeMetal	PRSSR-24	
210	1	Underbar Glass Rack	SupremeMetal	PRCR-19-24	
211	1	Warewasher, Undercounter, High Temp	Meiko USA	FV 40.2	
212	1	Underbar Wet/Dry Waste Cabinet	SupremeMetal	PRWC-19-18	
213	1	Prestige Modular Bar Die	SupremeMetal	PR-BARDIE	

Plumbing Schedule

ITEM No.	Quantity	Rough-in Description
P6	2	½" CW - ½"HW @ 14" AFF
P6A	2	1½" Waste @ 12" AFF
P9A	2	Floor Sink for I.D. Waste
P11	1	½" HW 140° @ 6" AFF
P11A	1	Floor Sink for I.D. Waste
P12	1	½" CW - ½"HW @ 14" AFF
P25	2	½" CW - ½"HW @ 14" AFF
P25A	2	1½" Waste @ 12" AFF
P27	1	½" HW 140° @ 6" AFF
P27A	1	Floor Sink for I.D. Waste
P28	1	½" CW - ½"HW @ 14" AFF
P32A	2	Floor Sink for I.D. Waste
P45	2	½" CW - ½"HW @ 14" AFF
P45A	2	1½" Waste @ 12" AFF
P47	1	Floor Sink for I.D. Waste
P47	1	½" HW 140° @ 6" AFF
P48	1	½" CW - ½"HW @ 14" AFF
P52A	2	Floor Sink for I.D. Waste
P101	1	½" CW - ½" HW @ 18" AFF
P101A	1	Floor Sink for Indirect Waste Drain
P105	1	¾" HW @ 24" AFF
P112	1	½" CW - ½" HW @ 24" AFF
P112A	1	1½" Direct Waste @ 112" AFF
P118A	1	Floor Sink for Indirect Waste Drain
P130	2	½" CW @ 60" AFF
P130A	2	Water Receptacle, 3"Ø Drain
P133	2	½" CW @ 60" AFF
P206	1	½" CW - ½"HW @ 14" AFF
P206A	1	1½" Waste @ 12" AFF
P211	1	½" HW 140° @ 6" AFF
P211A	1	Floor Sink for I.D. Waste
P212	1	½" CW - ½"HW @ 14" AFF

9-8-11
PERMIT SET

ANTONIO FRANYIE PE #11640 MECH
VIVIANA FRANYIE PE #49985 ME
FRANYIE ENGINEERS, INC.
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10810 NW 27 Street, Miami FL 33172
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www.franyieengineers.com
DESIGN: DRAWN: 9-8-11
JOB NUMBER 11-212

FD PRINTED: Nov 3 2011

ANTONIO FRANYIE LICENSE No. 11640 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov. 3 2011

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.

REVISIONS / SUBMISSIONS
1 11-2-11 BD/COORD. AAF

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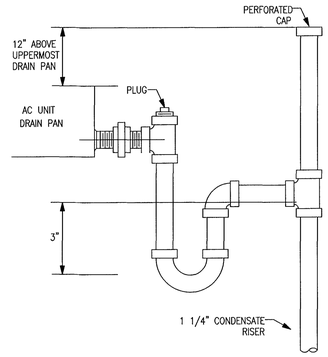
DRAWN BY: MD,JO
CHECKED BY: JG
DATE: 09-08-11

P-301

TYPICAL CONDENSATE DRAIN TRAP



PLUMBING FIXTURE CONNECTION SCHEDULE

NO.	DESCRIPTION	DRAIN	WATER COLD	WATER HOT	REMARKS
P-1	WATER CLOSET (PUBLIC, WALL HUNG)	3"	1"	--	TOTO # CT708E-HET BOWL, TOTO SEAT #SC534, AND TOTO # TET1LN32#CP-1.28GPF ECO EFV - AUTOMATIC FLUSH VALVE, PROVIDE FLOOR MOUNTED CARRIER.
P-1H	WATER CLOSET (PUBLIC, WALL HUNG, HANDICAP)	3"	1"	--	TOTO # CT708E-HET BOWL, TOTO SEAT #SC534, AND TOTO # TET1LN32#CP-1.28GPF ECO EFV - AUTOMATIC FLUSH VALVE, PROVIDE FLOOR MOUNTED CARRIER.
P-2	LAVATORY (PUBLIC, COUNTER TOP)	1 1/4"	1/2"	1/2"	TOTO # LT501.4 BOWL, WITH TOTO # TEL5LSC-10, 0.5GPM SELF GENERATING SENSOR FAUCET.
P-2H	LAVATORY (PUBLIC, WALL HUNG, HANDICAP)	1 1/4"	1/2"	1/2"	TOTO # LT307.4 BASIN WITH TOTO # TEL5LSC-10, 0.5GPM SELF GENERATING SENSOR FAUCET. PROVIDE FLOOR MOUNTED CONCEALED ARMS.
P-3	URINAL (PUBLIC, WALL HUNG)	2"	3/4"	--	TOTO # UT447E BOWL, WITH TOTO #TEU1LN12#CP 0.5GPF ECO EFV. TEU1LN12#CP 0.5GPF ECO EFV.
P-3H	URINAL (PUBLIC, WALL HUNG, HANDICAP)	2"	3/4"	--	TOTO, UT447E TEU1LN12#CP 0.5GPF ECO EFV.

NOTE: 1- ALL PLUMBING FIXTURES MUST FOLLOW FIXTURE STANDARDS & WATER CONSUMPTION RATES AS REQUIRED BY FBC PLUMBING SECTIONS 604.4 AND MUST COMPLY WITH DADE COUNTY'S WATER CONSERVATION ORDINANCE 08-14.
2- ALL EXPOSED TRIM SHALL BE CHROME PLATED.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SANITARY
	VENT LINE
SD	STORM DRAIN
	SAFEWASTE
CD	CONDENSATE
G	GAS LINE
	COLD WATER
	HOT WATER
FCO	FLUSH CLEAN OUT
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
RD	ROOF DRAIN
GCO	GROUND CLEANOUT
VTR	VENT THRU ROOF
RWL	RAIN WATER LEADER
PRV	PRESSURE REDUCING VALVE
	MECHANICAL SHOCK ARRESTOR
110°F	110°F HOT WATER PIPE
140°F	140°F HOT WATER PIPE
	HOT WATER RETURN PIPE

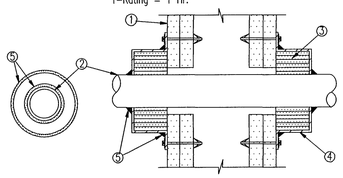
WL 2063

2 Hour Fire Rated Through Penetration Firestop for Single Plastic Pipe through Gypsum Walls using TREMstop WS and TREMstop MCR.

3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 1 Hr.



① Pre-Rated Gypsum Wallboard/Stud Wall Assembly
② Plastic Pipe - Nom. 4" diam. (or smaller) Sch. 40 PVC pipe for use in open or closed piping systems. A max. annular space of 1/8" is required within the system.
③ TREMstop WS - Intumescent wrap strips, continuously wrapped around the outer circumference of the pipe six times on both sides of wall assembly.
④ TREMstop MCR - Prefabricated steel collar wrapped over the wrap strips (Item 3) and mechanically fastened to both sides of the wall assembly.
⑤ FYRE-SIL - Min. 1/4" thickness of sealant applied at the interface of the wall and collar, and the interface of the collar and pipe. Sealant applied on both sides of wall.

Project:
Location:
Installer:
Signature:

The Tremco products used above have been tested in accordance with the following:
- ASTM E814 (UL1479) Standard Test Method for Through Penetration Firestopping.

Date: 3/13/97 Drawing: TW-2063
Approved by: J. Pitcole

The above described assembly has been tested and is based on both past and anticipated performance criteria. Tremco shall not be liable for any damages, direct or consequential, resulting from use of this material or design. Tremco shall only be responsible for replacing material found to be defective.

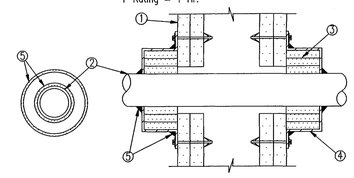
WL 2061

2 Hour Fire Rated Through Penetration Firestop for Single Plastic Pipe through Gypsum Walls using TREMstop WS and TREMstop MCR.

3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hr.
T-Rating = 1 Hr.



① Pre-Rated Gypsum Wallboard/Stud Wall Assembly
② Plastic Pipe - Nom 2" diam. (or smaller) Sch. 40 PVC pipe for use in open or closed piping systems. A max. annular space of 3/16" is required within the system.
③ TREMstop WS - Intumescent wrap strips, continuously wrapped around the outer circumference of the pipe three times on both sides of wall assembly.
④ TREMstop MCR - Prefabricated steel collar wrapped over the wrap strips (Item 3) and mechanically fastened to both sides of the wall assembly.
⑤ FYRE-SIL - Min. 1/4" thickness of sealant applied at the interface of the wall and collar, and the interface of the collar and pipe. Sealant applied on both sides of wall.

Project:
Location:
Installer:
Signature:

The Tremco products used above have been tested in accordance with the following:
- ASTM E814 (UL1479) Standard Test Method for Through Penetration Firestopping.

Date: 3/13/97 Drawing: TW-2061
Approved by: J. Pitcole

The above described assembly has been tested and is based on both past and anticipated performance criteria. Tremco shall not be liable for any damages, direct or consequential, resulting from use of this material or design. Tremco shall only be responsible for replacing material found to be defective.

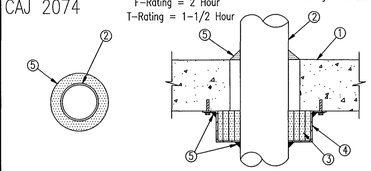
CAJ 2074

2 Hour Fire Rated Through Penetration Firestop for Plastic Pipe through Concrete Floors or Walls using TREMstop WS and TREMstop MCR.

3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

F-Rating = 2 Hour
T-Rating = 1-1/2 Hour



① Pre-Rated Concrete Floors or Block Walls = Min. 4-1/2" thickness
② Plastic Pipe - 2" diam. (or smaller) Sch. 40 PVC pipe for use in closed or open piping systems. A nom. annular space of 1/8" is required within the firestop system.
③ TREMstop WS - Intumescent wrap strips, continuously wrapped around outer circumference of the pipe four times.
④ TREMstop MCR - Prefabricated steel collar wrapped over the wrap strips (Item 3) and mechanically fastened to the floor or wall assembly.
⑤ FYRE-SIL - Min. 1/4" bead of sealant applied at the interface of the concrete slab and steel collar, and at the interface of the steel collar and pipe. An additional 1/4" thick bead of caulk to be applied around the the pipe at the interface with the top of the concrete slab.

NOTE: In floors, apply below the concrete slab. In walls, apply to each side of assembly.

Project:
Location:
Installer:
Signature:

The Tremco products used above have been tested in accordance with the following:
- ASTM E814 (UL1479) Standard Test Method for Through Penetration Firestopping.

Date: 3/05/97 Drawing: TR-2074
Approved by: J. Pitcole

The above described assembly has been tested and is based on both past and anticipated performance criteria. Tremco shall not be liable for any damages, direct or consequential, resulting from use of this material or design. Tremco shall only be responsible for replacing material found to be defective.

CAJ1047

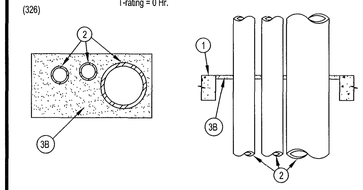
2 Hour Fire Rated Through Penetration Firestop for Multiple Metal Pipe through Concrete floors or walls using FYRE-SHIELD.

TREMCO
3735 Green Rd. Beachwood, OH, 44122

Drawing not to scale

(326)

F-rating = 2 Hr.
T-rating = 0 Hr.



① Floor or Wall assembly = 4 " thick concrete, Max. area of opening is 288 sq. in.
② Nom. 8" diam. (or smaller) Sch. 40 (or heavier) steel pipe Nom. 4" diam. (or smaller) copper pipe. Max. number of pipes with opening is three (3).
③ A) Forming Material - (Not shown) - Nom. 1" thick polyurethane backer rod friction fitted into opening.
B) Nom. " FYRE-SHIELD thickness installed within opening.

NOTE: For wall apply FYRE-SHIELD to both surfaces of wall.

Project:
Location:
Installer:
Signature:

The products used in the above assembly have been tested in accordance with the following:
- ASTM E814 (UL1479) Standard Test Method for Through Penetration Firestopping
- ASTM E119 (UL 263) Standard for Fire Tests of Building Construction and Materials.

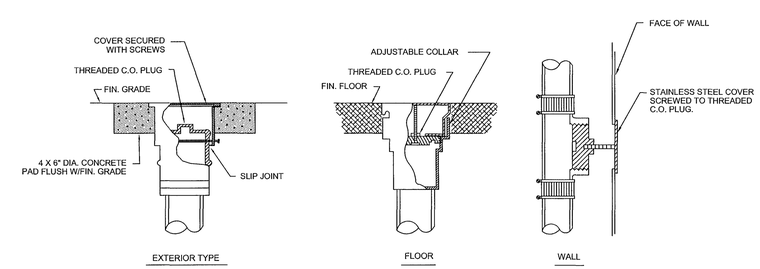
Date: 2/25/94 Drawing: TR-1047
Approved by: C. Tuzzeo

The above described assembly and products have been tested and are based on both past and anticipated performance criteria. Tremco shall not be liable for any damages, direct or consequential, resulting from use of this material or design. Tremco shall only be responsible for replacing material found to be defective.

DRAIN SCHEDULE

SYMBOL	DESCRIPTION	MFR. & MODEL
FD	FLOOR DRAIN (KITCHEN)	JOSAM 32120-2-50
FS	FLOOR SINK (KITCHEN)	JOSAM 49010 (PROVIDE 1/2, 3/4, FULL GRATES AS REQUIRED)
FD	FLOOR DRAIN (BATHROOMS)	JOSAM 30002-S-50, WITH TRAP PRIMER.

TYPICAL CLEANOUT DETAIL



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9-8-11
PERMIT SET

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VIVIANA FRANYIE
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Certificate of Authorization # 00002906
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DESIGN	DRAWN
	9-8-11
JOB NUMBER	11-210

FD PRINTED: Nov 3 2011

ANTONIO FRANYIE LICENSE No 11640 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 3 2011

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

P-400

GENERAL PLUMBING NOTES

1. ALL WORK SHALL CONFORM WITH THE 2004 FLORIDA BUILDING CODE, NFPA, NEC, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR THE COMPLETION OF THE PLUMBING SYSTEMS DESCRIBED HEREIN AND SHOWN ON THE DRAWINGS.

2. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTIONS, TESTS, PERFORMANCE BONDS, FINES AND OTHER ITEMS AS REQUIRED FOR THE INSTALLATION OF THE COMPLETE PLUMBING SYSTEMS, AND SHALL BE RESPONSIBLE FOR OBTAINING HIS OWN PERMIT.

3. CONTRACTOR SHALL PROVIDE ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

4. EXCEPT WHERE LONGER WARRANTIES ARE SPECIFIED FOR SPECIFIC EQUIPMENT, CONTRACTOR SHALL WARRANT ALL WORK TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER FINAL WRITTEN ACCEPTANCE OF THE PROJECT BY THE OWNER.

5. PROVIDE ALL NECESSARY INSTRUCTIONS TO THE OWNER IN THE OPERATION OF THE PLUMBING SYSTEMS BEFORE FINAL ACCEPTANCE.

6. PROVIDE THREE SETS OF BOUND AND LABELED EQUIPMENT MAINTENANCE AND INSTRUCTION MANUALS. MANUALS TO BE SUBMITTED TO ARCHITECT/ENGINEER FOR ACCEPTANCE.

7. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT FOR ACCEPTANCE OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE PURCHASE OR INSTALLATION OF ANY EQUIPMENT AND MATERIALS.

8. LABEL AND IDENTIFY ALL EQUIPMENT, MOTOR STARTERS, CONTROLS, PIPING AND VALVES. SUBMIT IDENTIFICATION SCHEME TO THE ARCHITECT/ENGINEER FOR APPROVAL.

9. ALL CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE MECHANICAL SUB-CONTRACTOR. WIRING SHALL BE AS PER THE ELECTRICAL SPECIFICATIONS. MECHANICAL SUB-CONTRACTOR TO FURNISH ALL MOTORS AND STARTERS, RELAYS, ETC.

10. PRODUCTS AND MATERIALS SPECIFIED BY TRADE NAME AND/OR MODEL ON THE DRAWINGS ESTABLISH A STANDARD OF QUALITY, APPEARANCE, PERFORMANCE AND DIMENSIONS. CONTRACTOR SHALL BASE HIS BID ON THOSE ITEMS, WHICH SHALL BE CONSIDERED TO ESTABLISH A STANDARD BASIS OF BIDDING. REQUESTS FOR SUBSTITUTION SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/ENGINEER DEMONSTRATING THAT THE PROPOSED PRODUCT IS COMPARABLE, AND THAT BASIC DESIGN, CONSTRUCTION STANDARDS, QUALITY AND WARRANTIES ARE EQUAL OR BETTER THAN THE PRODUCT SPECIFIED. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CHANGE IN THE WORK REQUIRED BY OTHER TRADES AND SHALL PAY FOR ANY EXPENSES INCURRED DUE TO THE CONTRACTOR'S REQUEST FOR REVISIONS OR SUBSTITUTIONS.

11. CONTRACTOR SHALL MAINTAIN A SET OF DRAWINGS AT THE PROJECT SITE WITH UP TO-DATE INFORMATION ON AS-BUILT CONDITIONS INDICATING WITH COLORED PENS ALL CHANGES AND DEVIATIONS FROM THE CONTRACT DRAWINGS. THIS SET OF PRINTS SHALL BE TURNED OVER TO THE ARCHITECT/ENGINEER AT THE COMPLETION OF THE PROJECT AS A PRE-REQUISITE FOR FINAL PAYMENT.

12. PROVIDE ALL NEW MATERIALS OF AMERICAN MANUFACTURE, BEARING THE U.L. LABEL AS APPLICABLE. PROVIDE SUPPLEMENTAL MATERIALS NOT SPECIFICALLY NOTED HEREIN, BUT REQUIRED TO COMPLETE THE INSTALLATION IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DRAWINGS, AT NO ADDITIONAL COST TO THE OWNER.

13. FURNISH ALL NECESSARY ACCESS PANELS TO CONTROL VALVES, DAMPERS, ETC., TO THE GENERAL CONTRACTOR, FOR INSTALLATION UNDER THE GENERAL TRADES.

14. ALL WORK SHALL BE FIELD CHECKED BEFORE INSTALLATION AND COORDINATED WITH ALL OTHER TRADES. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO DEPICT APPROXIMATE EQUIPMENT LOCATIONS AND ARRANGEMENTS, NOT SHOW ANY MINOR DETAIL. PLANS SHALL NOT BE SCALED: REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS.

15. OFFSET PIPING AS REQUIRED TO CLEAR BUILDING STRUCTURE, DUCTWORK, ETC. AS SHOWN ON DRAWINGS AND AS REQUIRED BY FIELD CONDITIONS.

16. PLUMBING CONTRACTOR SHALL VERIFY ALL SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS AND EQUIPMENT. VERIFY ALL VOLTAGES WITH THE ELECTRICAL TRADE BEFORE ORDERING ANY EQUIPMENT.

17. FURNISH AND INSTALL PLUMBING FIXTURES AS SPECIFIED ON DRAWINGS. UNLESS OTHERWISE SPECIFIED, FIXTURES SHALL BE FIRST QUALITY WHITE VITREOUS CHINA WITH CHROME PLATED BRASS OR BRONZE TRIMMING.

18. EACH PLUMBING FIXTURE SHALL BE PROVIDED WITH MECHANICAL SHOCK ARRESTORS.

19. PROVIDE SHUT-OFF VALVE(S) FOR EACH FIXTURE.

20. WHEREVER DISSIMILAR METALS ARE TO BE JOINED, A DIELECTRIC FITTING SHALL BE PROVIDED TO CONNECT BOTH TYPES OF PIPES.

21. PROVIDE PIPING AS FOLLOWS:

    A. DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING.

    UNDERGROUND: TYPE K SEAMLESS HARD DRAWN COPPER TUBE WITH CAST COPPER ALLOY OR WROUGHT SOLDER JOINT FITTINGS.

    ABOVE GROUND; TYPE L SEAMLESS HARD DRAWN COPPER TUBE WITH CAST COPPER ALLOY OR WROUGHT SOLDER JOINT FITTINGS.

    SOLDER USED IN JOINTS SHALL BE 100% LEAD-FREE.

    B. STORM WATER, SANITARY WASTE AND VENT PIPING, AIR CONDITIONING CONDENSATE:

    UNDERGROUND; DWV PVC PIPE & FITTINGS.

    ABOVE GROUND; NO HUB CAST IRON PIPE AND FITTINGS WITH RUBBER COUPLINGS.

    UNLESS NOTED OTHERWISE, HORIZONTAL WASTE PIPING 3-IN. AND LARGER SHALL BE SLOPED AT A MINIMUM OF 1/8-IN PER FOOT; 2-1/2-IN AND SMALLER SHALL BE SLOPED AT NO LESS THAN 1/4-IN PER FOOT.

    C. PAN DRAIN: DWV COPPER PIPE & FITTINGS WITH SOCKET TYPE FITTINGS.

22. DISINFECT ALL DOMESTIC WATER PIPING IN ACCORDANCE WITH SFBC AND AWWA STANDARDS.

23. THERMAL INSULATION

    A. DOMESTIC HOT WATER PIPING:
    MINIMUM 1/2" THICK OR AS REQUIRED BY THE STATE OF FLORIDA ENERGY CODE, PRE-MOLDED GLASS FIBER PIPE INSULATION WITH SELF-ADHESIVE JACKET.

    B. AIR CONDITIONING CONDENSATE COPPER PIPING:

    FIRE RATED 1/2" THICK ELASTOMERIC CLOSED CELL POLYETHYLENE THERMAL INSULATION WITH BUILT-IN VAPOR BARRIER. SEAL ALL EDGES AS RECOMMEND-ED BY THE MANUFACTURER.

    C. HORIZONTAL STORM DRAINAGE PIPING RUNNING PARALLEL TO THE ROOF:

    1/2" THICK PRE-MOLDED GLASS FIBER PIPE INSULATION WITH SELF-ADHESIVE JACKET.

24. CLEANOUTS

    A. WALL CLEANOUT: JOSAM SERIES 58790 WITH THREADED PLUG AND VANDAL PROOF STAINLESS STEEL ACCESS COVER PLATE.

    B. FLOOR CLEANOUT:

    INTERIOR; JOSAM SERIES 56020 WITH VANDAL PROOF COVER.

    EXTERIOR; JOSAM SERIES 58440 WITH VANDAL PROOF COVER.

    PROVIDE CLEAN-OUTS IN HORIZONTAL PIPING AT INTERVALS REQUIRED BY CODE, AT THE BOTTOM OF ALL WASTE STACKS AND RISERS, AND AT EVERY CHANGE IN DIRECTION, AND WHERE INDICATED ON DRAWINGS.

25. DRAINS: SHALL BE AS SPECIFIED ON DRAWING SCHEDULES.

26. PLUMBING FIXTURES AND TRIM: PROVIDE FIXTURES COMPLETE WITH DRAINS, TRAPS, SUPPLIES, WALL ESCUTCHEONS AND ANY OTHER ACCESSORY REQUIRED. FIXTURES AND FAUCETS SHALL COMPLY WITH FBC WATER SAVING STANDARDS.

    A. GAS WATER HEATER: SHALL COMPLY WITH FBC ENERGY SAVING STANDARDS.

27. CARRIERS:

    A. ALL CARRIERS SHALL BE FULLY BOLTED TO THE FLOOR AND INSTALLED AS RECOMMENDED BY MANUFACTURER.

    B. LAVATORIES INSTALLED ON METAL STUD PARTITIONS: JOSAM SERIES 17100 RECTANGULAR STRUCTURAL STEEL UPRIGHTS WITH INTEGRAL WELDED HEAVY STEEL FOOT AND DUCTILE IRON CONCEALED.

28. VALVES

    A. GATE VALVES: 2" AND SMALLER; ALL BRONZE CONSTRUCTION, SOLID WEDGE, CLASS 125, 200 PSIG NON-SHOCK WATER, THREADED ENDS, MILWAUKEE 115. 3" AND LARGER; FLANGED ENDS, IRON BODY, BRONZE TRIM, MILWAUKEE F-2882.

    B. GLOBE VALVES: TO 3"; BRONZE CONSTRUCTION, CLASS 125, 200 PSIG NON-SHOCK WATER, THREADED ENDS, MILWAUKEE 502. TO 2"; SOLDERED ENDS, MILWAUKEE 1502.

    C. CHECK VALVES: 2" AND SMALLER; BRONZE BODY, CLASS 125, 200 PSIG NON-SHOCK WATER, THREADED, MILWAUKEE 509; SOLDERED ENDS, MILWAUKEE 1509. 3" AND LARGER; FLANGED ENDS, IRON BODY, BRONZE TRIM, CLASS 125, MILWAUKEE F-2472.

    D. HOSE BIBBS: 3/4-IN ROUGH BRASS CONSTRUCTION WITH SHUT-OFF VALVE AND VACUUM BREAKER.

29. HANG PIPING FROM STRUCTURE UTILIZING GALVANIZED HANGER RODS AND TRAPEZE OR CLEVIS HANGERS. FOR COPPER PIPING, RODS AND HANGERS SHALL BE COPPER CLAD. SUPPORT PIPING INDEPENDENTLY FROM EQUIPMENT. PLACE HANGERS AT EVERY PIPE CHANGE OF DIRECTION AND AT EACH SIDE OF SHUT OFF VALVES. PROVIDE PROTECTING SHEET METAL SHIELDS FOR ALL INSULATED PIPING.

30. PIPING TESTS

    SANITARY AND STORM PIPING: SUBJECT ENTIRE SYSTEM TO A HYDROSTATIC HEAD OF NO LESS THAN 10 FEET OF WATER EXCEPT FOR THE TOPMOST 10 FEET OF PIPE BY FILLING SYSTEM WITH WATER UP TO THE OVERFLOW POINT OF THE HIGHEST OPENING, FOR A PERIOD OF TWO HOURS WITHOUT DROP IN WATER LEVEL.

    DOMESTIC WATER PIPING: SUBJECT THE ENTIRE SYSTEM TO A HYDROSTATIC PRESSURE OF NO LESS THAN 150 PSIG FOR A PERIOD OF TWO HOURS WITHOUT LOSS IN PRESSURE.

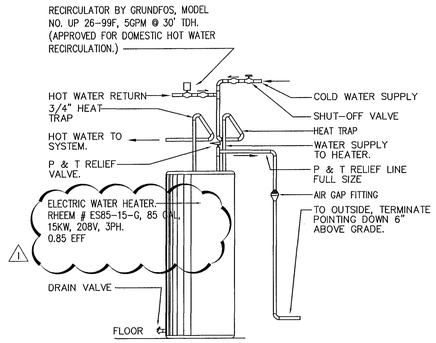
31. TEST ALL EQUIPMENT TO DEMONSTRATE PROPER FUNCTIONING AND CAPACITY.

32. PROVIDE SHOCK ABSORBERS, DIELECTRIC FITTINGS, HANGERS AND INSERTS, TRAP RE-SEALERS, VACUUM BREAKERS, GAUGES AND THERMOMETERS, STRAINERS, VALVES, ETC., FOR COMPLETE AND OPERABLE PLUMBING SYSTEMS AS REQUIRED BY CODE AND AS INDICATED ON PLANS. PROVIDE UNIONS AND FLANGES AT ALL CONNECTIONS TO EQUIPMENT FOR EASY MAINTENANCE AND DISMANTLING. PROVIDE ESCUTCHEONS AT ALL PIPE PENETRATIONS OF WALLS, PARTITIONS, FLOORS AND CEILINGS.

33. PROVIDE SHORING AND BRACING IN ACCORDANCE WITH STATE AND LOCAL REGULA-TIONS FOR THE PROTECTION OF PERSONNEL AND UTILITIES WHERE EXCAVATIONS ARE MADE. PROVIDE ALL LABOR AND MATERIALS IN CONNECTION WITH EXCAVATING, TRENCHING, DE-WATERING, FILLING, BACKFILLING, COMPACTING, ETC., UNDER THIS DIVISION (MECHANICAL).

34. CONTRACTOR SHALL COLLECT ALL CONDENSATE PIPING AND ROUTE TO NEAREST CATCH BASIN IN SERVICE ALLEY. (TYP.)

TYPICAL ELECTRIC WATER HEATER DETAIL



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ANTONIO FRANYIE LICENSED No. 11640 STATE OF FLORIDA PROFESSIONAL ENGINEER
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P-401

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