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OCCUPANCY LOAD SCHEDULE - FIRST FLOOR						
Room Number	Room Name	Area	Occupancy Class	Occupancy Load Factor	Occupancy Load	Comments
AQ105	COED WET SPA	609 SF	A-3	50	13	
AQ106	STEAM	209 SF	A-3	1.5	10	18"/OCC
AQ107	SAUNA	131 SF	A-3	1.5	10	18"/OCC
AQ108	WARM SPA	168 SF	A-3	1.5	8	18"/OCC
AQ109	COLD SPA	168 SF	A-3	1.5	8	18"/OCC
AQ191	WOMEN	164 SF	A-3	50	4	
AQ193	MEN	133 SF	A-3	50	3	
CF101	DINING	1932 SF	A-2 (NET)	15	129	
CF103	CAFE SERVICE	530 SF	A-2	200	3	
CF110	KITCHEN	791 SF	B	200	4	
CF114	COOLER/ FREEZER	221 SF	B	150	2	
CF115	OFFICE	57 SF	B	150	1	
CF124	LOCKABLE STORAGE	76 SF	A-2	300	1	
CF131	BISTRO SERVICE	271 SF	A-2	200	2	
CH101	CIRC	1754 SF	B	150	1	
CH102	CIRC	1262 SF	B	150	9	
CH104	CIRC	500 SF	B	50	10	
CH105	CIRC	472 SF	B	50	10	
CH106	CIRC	549 SF	B	50	11	
CH107	CIRC	192 SF	B	50	4	
EL101	ELEV	74 SF	-	0	0	
EL111	ELEV EQUIP	46 SF	S-2	300	1	
EN101	VESTIBULE	245 SF	-	0	0	
EN102	RECEPTION	149 SF	B	150	1	
GS101	GRAND STAIR	86 SF	-	0	0	
GT103	CTR	1282 SF	A-3	50	26	
KA101	KIDS ENTRY	138 SF	E (NET)	35	4	
KA102	CHECK IN	124 SF	E (NET)	35	4	
KA104	TODDLER	839 SF	I - 4 (NET)	35	19	
KA120	STUDIO - MOVEMENT	690 SF	E (NET)	35	20	
KA123	STUDIO - ACTIVITY	626 SF	E (NET)	35	18	
KA124	STORAGE - ACTIVITIES	147 SF	E (NET)	0	0	SERVING NET SPACE
KA125	KIDS GYM	727 SF	E (NET)	35	21	
KA182	CIRC	471 SF	E (NET)	0	0	SERVING NET SPACE
KA190	ALL GENDER	106 SF	E (NET)	0	0	SERVING NET SPACE
LF101	LOCKERS - FAMILY	820 SF	A-3	50	17	
LF102	CHNG	75 SF	A-3	50	2	
LF103	CHNG	71 SF	A-3	50	2	
LF104	CHNG	75 SF	A-3	50	2	
LF105	ALL GENDER	91 SF	A-3	50	2	
LF110	ADA CHNG	111 SF	A-3	50	3	
LM101	LOCKERS - MEN	1382 SF	A-3	50	28	
LM103	VANITIES	544 SF	A-3	50	11	
LM104	TOILETS	280 SF	A-3	50	6	
LM105	SHOWERS	476 SF	A-3	50	10	
LM120	STORAGE	11 SF	B	150	1	
LW101	LOCKERS - WOMEN	1361 SF	A-3	50	28	
LW103	VANITIES	528 SF	A-3	50	11	
LW104	TOILETS	280 SF	A-3	50	6	
LW105	SHOWERS	477 SF	A-3	50	10	
LW120	STORAGE	10 SF	B	150	1	
ME102	MDF	191 SF	S-1	300	1	
ME110	ELEC	172 SF	S-1	300	1	
ME111	ELEC	82 SF	S-1	300	1	
ME121	EQUIPMENT ROOM	1434 SF	S-1	300	5	
MS104	MAIL	68 SF	B	150	1	
MS109	GM	99 SF	B	150	1	
OP101	FAC OP MAN	98 SF	B	150	1	
OP103	LAUNDRY	451 SF	F-1	300	2	
OP116	DRYERS	179 SF	F-1	300	1	
OP117	CHEMICAL STORAGE	46 SF	S-1	300	1	
OP120	STEAM GEN	88 SF	S-1	300	1	
OP130	STORAGE - JANITOR	91 SF	S-1	300	1	
PL101	PILATES	1144 SF	A-3	50	23	
YG101	YOGA #1	1646 SF	A-3	50	33	
YG103	YOGA FOYER	289 SF	A-3	50	6	
					576	

BUILDING OCCUPANT LOAD: 1,123 OCCUPANTS
INTERNATIONAL BUILDING CODE TABLE: 2902.1

OCCUPANCY TYPE	OCCUPANCY	WATER CLOSETS (URINALS INCLUDED IN TOTAL)		LAVATORIES		DRINKING FOUNTAINS		SERVICE SINKS	
		REQUIRED MALE - 1/125 FEMALE - 1/65	PROVIDED	REQUIRED 1 PER 200	PROVIDED	REQUIRED 1/500	PROVIDED	REQUIRED 1 PER FLOOR	PROVIDED
A-3 ASSEMBLY	MEN - 562	5	10	3	14	--	--	--	--
	WOMEN - 562	9	11	3	14	--	--	--	--
TOTAL	1,123	14	21	6	28	3	15	2	4

HAZARDOUS MATERIALS INVENTORY STATEMENT (HMIS):

PRODUCT/CHEMICAL NAME	MANUFACTURER'S NAME	COMPONENT/CHEMICAL CONSTITUENTS	CAS INGREDIENT	CAS % OF MIX	(CAS) #	LOCATION (STORED OR USED)	MAXIMUM QUANTITY IN STORAGE	IFC PHYSICAL HAZARD CLASSIFICATION	IFC HEALTH HAZARD CLASSIFICATION	OTHER HAZARD	SIZE/QUANTITY OF CONTAINER	MAXIMUM QUANTITY IN USE (CLOSED SYSTEM)	MAXIMUM QUANTITY IN USE (OPEN SYSTEM)	AGGREGATE QUANTITIES (IFC HAZARD)	MAXIMUM ALLOWABLE QUANTITY IBC TABLE 307.1(2)	STORAGE METHOD FOR PRODUCT	PHYSICAL STATE (TEMP/PRESS)	SAFETY DATA SHEET NAME	NFPA 704 H	NFPA 704 F	NFPA 704 R	NFPA 704 OTHER
LIQUICHLOR 10 - 16%	UNIVAR	SODIUM HYPOCHLORITE	SODIUM HYPOCHLORITE	< 16	7681-52-9	FIRST FLOOR POOL EQUIPMENT ROOM	500 GALLONS	NA	CORROSIVE		500 GALLON BULK TANK/1	500 GALLON	N/A	500 GALLON		500 GAL DOUBLE-WALL CONTAINMENT TANK	LIQUID (ROOM TEMP/ATMOSPHERIC PRESSURE)	OX76685	3	0	1	
HYDROCHLORIC ACID SOLUTION	UNIVAR	HYDROCHLORIC ACID	HYDROCHLORIC ACID	2-37	7647-01-0	CHEMICAL STORAGE ROOM - OP117	120 GALLONS	NA	CORROSIVE		15 GALLON CARBOYS/8	60 GALLON	N/A	120 GALLON		15 GALLON CARBOYS ON SECONDARY CONTAINMENT PALLETS	LIQUID (ROOM TEMP/ATMOSPHERIC PRESSURE)	100000003	3	0	1	
SODA ASH	FMC WYOMING CORP.	SODIUM CARBONATE	SODIUM CARBONATE	99.8	497-19-8	FIRST FLOOR POOL EQUIPMENT ROOM	100lbs	NA	N/A		50 lbs./2	N/A	50 lbs	100 lbs (//10 = 10 GALLONS)		BAGS AND 40 GALLON PLASTIC CONTAINERS	SOLID (ROOM TEMP/ATMOSPHERIC PRESSURE)	497-19-8	2	0	0	
TOTALS							800 GALLONS AND 100 lbs					800 GALLONS	50 LBS	810 GALLONS	GALLONS/ 10,000 LBS							

OCCUPANCY LOAD SCHEDULE - SECOND FLOOR						
Room Number	Room Name	Area	Occupancy Class	Occupancy Load Factor	Occupancy Load	Comments
CF245	STUDIO LOUNGE	838 SF	B	150	1	
GT201	GROUP #1	2001 SF	A-3	50	41	
GT204	BARRE	1342 SF	A-3	50	27	
ME201	ROOF ACCESS	45 SF	B	150	1	
ME211	ELECTRICAL	94 SF	S-1	300	1	
OP202	FAC ENG	102 SF	B	150	1	
OP270	JANITOR	28 SF	S-1	300	1	
PT210	STRETCHING	657 SF	A-3	50	14	
PT211	FUNCTIONAL TRAINING	5690 SF	A-3	50	114	
PT213	RESISTANCE	2728 SF	A-3	50	55	
PT214	FREE WEIGHTS	5728 SF	A-3	50	115	
PT216	ALPHA	2805 SF	A-3	50	57	
PT217	GTX	1892 SF	A-3	50	38	
PT218	CARDIO	2776 SF	A-3	50	56	
PT221	PT GANG	124 SF	B	75	2	
RV201	RECOVERY	1415 SF	B	150	10	
					534	

OCCUPANCY LOAD SCHEDULE - OUTDOOR SPACES						
Room Number	Room Name	Area	Occupancy Class	Occupancy Load Factor	Occupancy Load	Comments
AQ111	LAP POOL	3219 SF	A-3	50	65	
AQ120	OUTDOOR POOL DECK	15011 SF	B	15	1001	
AQ122	LEISURE POOL	2817 SF	A-3	50	57	
CF119	OUTDOOR DINING	2878 SF	B	15	192	
KA103	OUTDOOR PLAY	1215 SF	E	35	35	
OP98	OUTDOOR BOH	2763 SF	-	0	0	
OP99	OUTDOOR TURF	9072 SF	-	0	0	

CODE SUMMARY

NAME OF PROJECT:	LIFE TIME HOLLADAY
ADDRESS:	1975 EAST RODEO DRIVE HOLLADAY, UTAH
PROPOSED USE:	FITNESS CENTER FOOD SERVICE AREA, POOLS, OFFICES, RETAIL, AND 2-HR BABY SITTING SERVICE
BUILDING CODE ENFORCEMENT JURISDICTION:	HOLLADAY, UTAH
CODES ADOPTED:	
BUILDING CODE:	2021 INTERNATIONAL BUILDING CODE
PLUMBING CODE:	2021 INTERNATIONAL PLUMBING CODE
MECHANICAL CODE:	2021 INTERNATIONAL MECHANICAL CODE
ELECTRICAL CODE:	2023 NATIONAL ELECTRIC CODE
FIRE/LIFE SAFETY CODE:	2021 INTERNATIONAL FIRE CODE
ACCESSIBILITY CODE:	2017 ANSI ADA CODE
ENERGY CODE:	2021 INTERNATIONAL ENERGY CODE
ELEVATOR CODE:	NA
FUEL GAS CODE:	NA
POOL SPA CODE:	NA
SEISMIC CATEGORY:	D-III

MAIN BUILDING DATA:

CONSTRUCTION TYPE:	TYPE 2B (TABLE 601)
SPRINKLERS:	AUTOMATIC SPRINKLER SYSTEM PROVIDED THROUGHOUT BUILDING IN ACCORDANCE WITH NFPA 13.
FIRE ALARM:	FIRE ALARM SYSTEM W/ VOICE EVACUATION PROVIDED THROUGHOUT BUILDING IN ACCORDANCE WITH NFPA 72.
STANDPIPES:	YES, CLASS 1 WET AUTOMATIC
BUILDING HEIGHT:	38'-0", 2-STORIES
MEZZANINE:	NO
HIGH RISE:	NO
BUILDING AREA:	29,501 SF
1ST FLOOR:	29,814 SF
2ND FLOOR:	29,501 SF
TOTAL:	59,315 SF

ALLOWABLE AREA MAIN BUILDING:

PRIMARY OCCUPANCY: ASSEMBLY, A-3		MIXED OCCUPANCY: YES		NON-SEPARATED MIXED USE OCCUPANCY SECTION 508.3		INCIDENTAL USES: BOILER ROOM & LAUNDRY ROOM, SECTION 509.	
SECONDARY OCCUPANCIES: A-2, B, E, H, S1							
STORY NUMBER:	DESCRIPTION & USE:	BUILDING AREA PER STORY (IBC DEF)	TABLE 506.2 (A2-A3)	SECTION 506.3 SPRINKLER INCREASE	SECTION 506.3 FRONTAGE INCREASE (IF)	ALLOWABLE AREA / STORY: SECTION 506	
1	A3, A2, B, S1, H	31,131 SF (29,814 SF + 1,317 SF SHADE)	(NS) 9,500	(SM) 28,500 SF	.75 X 9,500	35,625 SF	
2	A3, B, S1	29, 501 SF	(NS) 9,500	(SM) 28,500 SF	.75 X 9,500	35,625 SF	

ALLOWABLE HEIGHT:

TYPE OF CONSTRUCTION	TYPE 2B	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET	FEET: 75'-0"	38'-8"	TABLES 504.3
BUILDING HEIGHT IN STORIES	STORIES: 3 (ABOVE GRADE PLANE)	STORIES: 2 (ABOVE GRADE PLANE)	TABLES 504.4

FIRE PROTECTION REQUIREMENTS:

SEE SHEETS G510 THROUGH G522 FOR SPECIFIC FIRESTOPPING, FIREPROOFING, & UL / ASTM DESIGNS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET) - TABLE 602	FIRE RESISTANCE RATING FOR TYPE 2B		CODE REFERENCE	NOTES / UL / ASTM REFERENCE
		REQ'D	PROVIDED		
PRIMARY STRUCTURAL FRAME, INCLUDING COLUMNS		0	0		
BEARING WALLS:		0	0		
EXTERIOR WALLS		0	0		
PLAN NORTH	X > 30	0	0 (BEARING)	TABLE 601	
PLAN EAST	X > 30	0	0 (BEARING)	TABLE 601	
PLAN SOUTH	X > 30	0	0 (BEARING)	TABLE 601	
PLAN WEST	X > 30	0	0 (BEARING)	TABLE 601	
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS		0	0	TABLE 601	
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS		0	0	TABLE 601	
SHAFTS - ELEVATOR		1	1	713/CHAPTER 30	METAL STUD GYP BD UL-U415
SHAFTS - MECH.		1	1	713.4	METAL STUD GYP BD UL-U415
CORRIDORS		0	0	TABLE 1018.1	
FIRE BARRIER WALL	LAUNDRY, BOILER, ELEVATOR MACHINE ROOM	1	1	TABLE 509, SECTION 3005	CMU: UL-U905 METAL STUD GYP BD: V486
LIFE SAFETY REQUIREMENTS: EMERGENCY LIGHTING: YES EXIT SIGNS: YES FIRE ALARMS: YES (PARTIAL) SMOKE DETECTION SYSTEMS: YES (PARTIAL) PANIC HARDWARE: YES					

EXIT REQUIREMENTS - NUMBER AND ARRANGEMENT OF EXITS:

FLOOR	OCCUPANT LOAD	MINIMUM NUMBER OF EXITS PER FLOOR FOR OCCUPANT LOAD (SECTION 1015)		TRAVEL DISTANCE (TABLE 1016.2)	
		REQUIRED	SHOWN ON PLANS	ALLOWABLE DISTANCE	ACTUAL MAX. TRAVEL DISTANCE SHOWN ON PLANS
FIRST FLOOR	573	3	10	250'	240'-9"
SECOND FLOOR	550	3	3	250'	229'-5"
OUTDOOR POOL/DECK	1,504	4	4	250'	201'-3"

1. SECTION 1015.2.1 EXCEPTION 2: WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, THE SEPARATION DISTANCE OF THE EXIT DOORS SHALL NOT BE LESS THAN 1/3 OF THE LENGTH OF THE MAX OVERALL DIAGONAL OF THE AREA SERVED.

1. EVERY ASSEMBLY OCCUPANCY WITH AN OCCUPANCY OF 50 OR MORE IS TO BE POSTED WITH THE APPROVED OCCUPANT LOAD.
2. SIZE OF DOORS: "SHALL PROVIDE A CLEAR WIDTH OF NOT LESS THAN 32"
3. EGRESS SIZING REQUIREMENTS: SECTION 1006, STAIRS: 0.2 INCH PER OCCUPANT, OTHER EGRESS COMPONENTS: 0.15 INCH PER OCCUPANT.
4. COMMON PATH OF TRAVEL NOT TO EXCEED 30' (OR 75' IF LESS THAN 50 OCCUPANTS.)

LIFE TIME
HEALTHY WAY OF LIFE

2900 CORPORATE PLACE CHANHASSEN, MN 55317

CONSULTANT

LIFE TIME
PROPERTY DEVELOPMENT

PROJECT INFORMATION

Holladay, UT
1975 East Rodeo Walk Drive
Holladay, Utah 84117

DRAWING LOG

REV	DATE	DESCRIPTION
A1	04/17/26	Addendum 01

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NAME REG. NO.
MATTHEW J BRINZA 8877034-0301
EXP DATE: 05/31/26
STAMP



ISSUE DATE: 02/09/26

SHEET NO.

G010

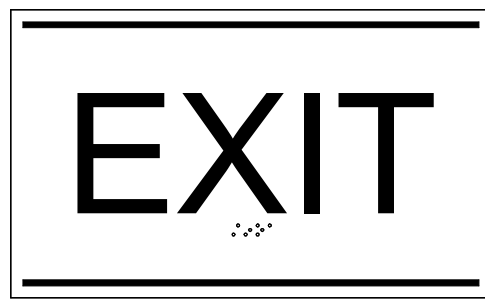
PUBLICATIONS
ISSUE FOR PERMIT / BID

CODE INFORMATION AND OCCUPANCY TABLES

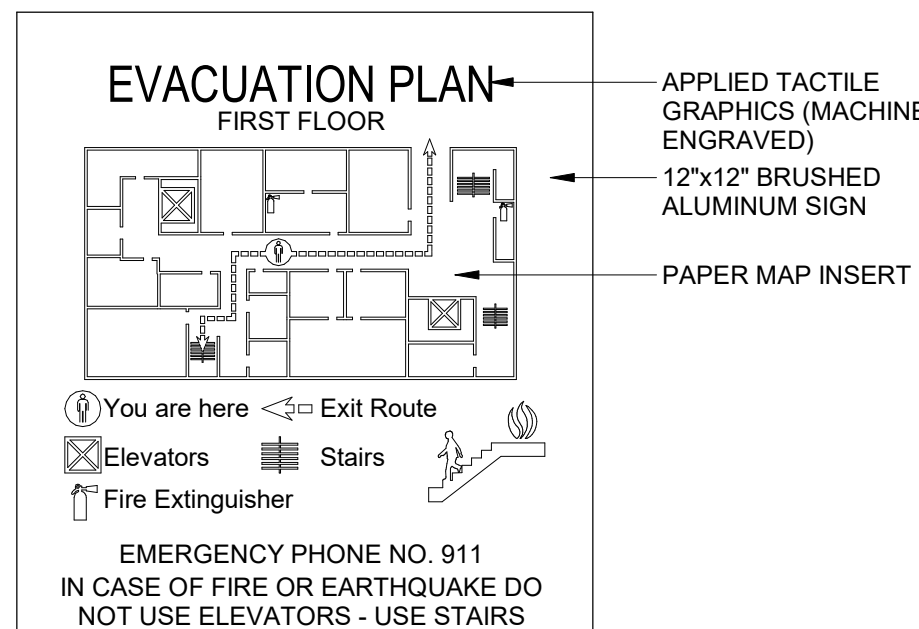
U
D
C
B
A



D1 EXTERIOR SIGNAGE AT EQUIP. ROOM
3" = 1'-0"

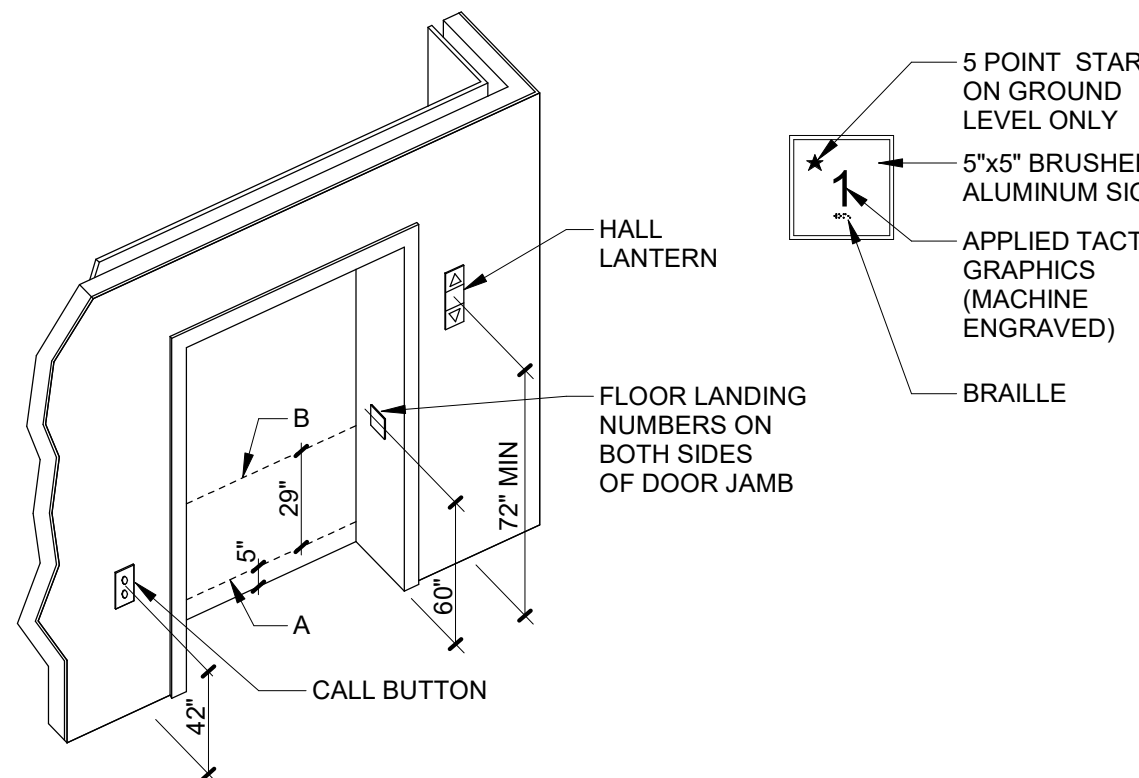


D2 EXIT SIGNAGE - EXIT
3" = 1'-0"



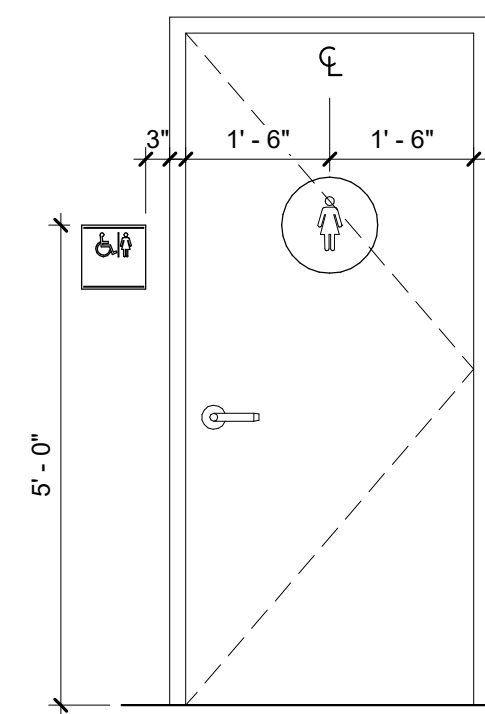
NOTE:
• LOCATE EVACUATION PLANS INSIDE EACH MAIN BUILDING ENTRY, ELEV. LOBBY, AND IN CLOSE VICINITY OF EACH DOOR LEADING TO ENCLOSED STAIRWELL.
• EACH EVACUATION PLAN TO GRAPHICALLY SHOW AN "X" AND THE ORIENTATION OF THE OCCUPANT VIEWING THE SIGN AS IT RELATES TO THE FLOOR PLAN

D3 EVACUATION PLAN
1 1/2" = 1'-0"



NOTE:
• AUTOMATIC DOOR REOPENING DEVICE IS ACTIVATED IF AN OBJECT PASSES THROUGH EITHER LINE "A" OR B. LINE "A" AND "B" REPRESENT THE VERTICAL LOCATION OF THE DOOR REOPENING DEVICE NOT REQUIRING CONTACT.
• ALL DIMENSIONS ARE FROM THE CENTERLINE TO FINISHED FLOOR.
• SIGNS SHALL BE ENGRAVED INTO CALL STATION AND READ "IN CASE OF FIRE USE STAIRWAY FOR EXIT ETC."

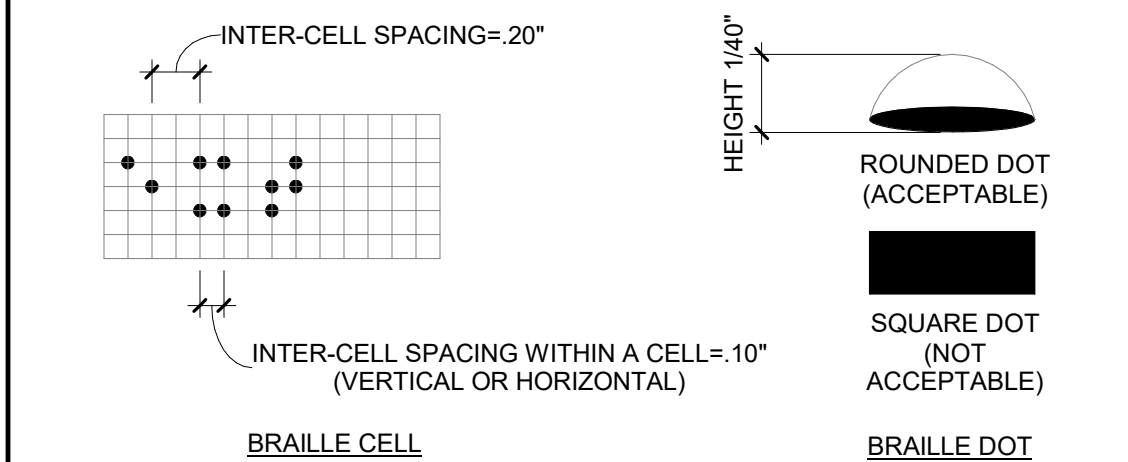
D4 ELEVATOR ACCESSIBILITY
1/4" = 1'-0"



D5 IDENTIFICATION FOR SANITARY FACILITIES - TYP. MOUNTING
1/2" = 1'-0"

SIGNAGE GENERAL NOTES:

1. CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH (0.794 MM) MINIMUM AND SHALL BE UPPERCASE CHARACTERS WITH GRADE 2 BRAILLE. REFER TO BRAILLE REQUIREMENTS BELOW.
2. CHARACTER SIZE: CHARACTERS SHALL BE A MINIMUM OF 5/8" (15.9 MM) AND A MAXIMUM OF 2 INCHES (51 MM) HIGH.
3. FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS, AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.
4. PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1. STROKES WIDTH-TO-HEIGHT RATIO BETWEEN 1.5 AND 1:10.
5. BRAILLE: GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. 1/10 INCH IS REQUIRED BETWEEN EACH DOT WITHIN A CELL. MEASURED FROM THE DOT CENTERS. 2/10 INCH IS REQUIRED BETWEEN EACH CELL WITHIN A WORD. MEASURE FROM THE CENTER OF THE DOTS IN THE SECOND COLUMN OF THE FIRST CELL TO THE CENTER OF THE DOTS IN THE FIRST COLUMN OF THE NEXT CELL. DOTS MUST BE A MINIMUM OF 1/40 INCH HIGH AT THE APEX, AS IN THE FOLLOW FIGURES.



6. SIGNAGE NOTE: CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THE PICTOGRAM, ACCOMPANIED BY EQUIVALENT VERBAL DESCRIPTION DIRECTLY BELOW. ONE SIGN REQUIRED AT TOILET ROOM DOORS AS NOTED.
7. MOUNTING HEIGHT: SIGNS CANNOT BE MORE THAN 5' TO THE TOP OF THE TOP LINE RAISED CHARACTER TEXT AND NOT LESS THAN 4' TO THE BOTTOM OF THE LOWEST LINE OF BRAILLE DOTS.
8. SIGNAGE SHOWN ON SHEET IS SHOWN FOR REFERENCE ONLY. FINAL SIGN DESIGN MAY DIFFER

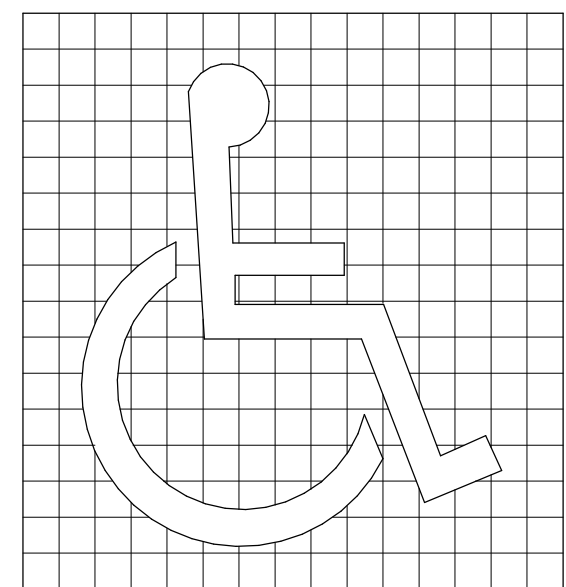
NOTE:
SIGNAGE SHOWN ON THIS SHEET IS SHOWN FOR REFERENCE ONLY. FINAL SIGN DESIGN MAY DIFFER



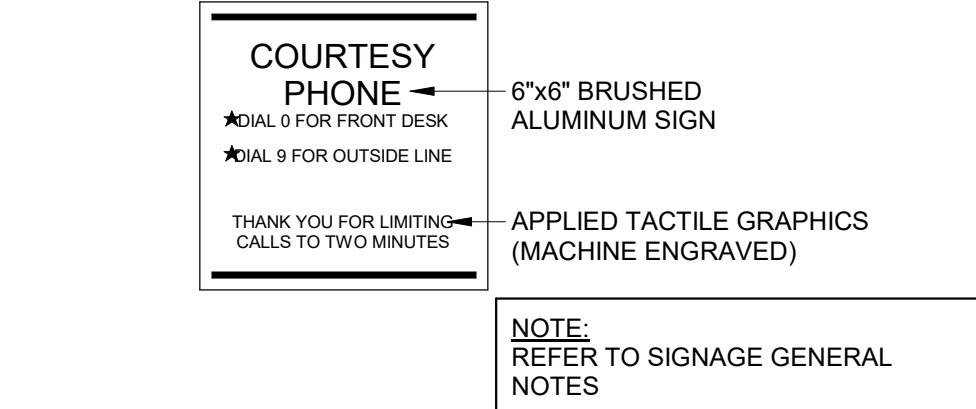
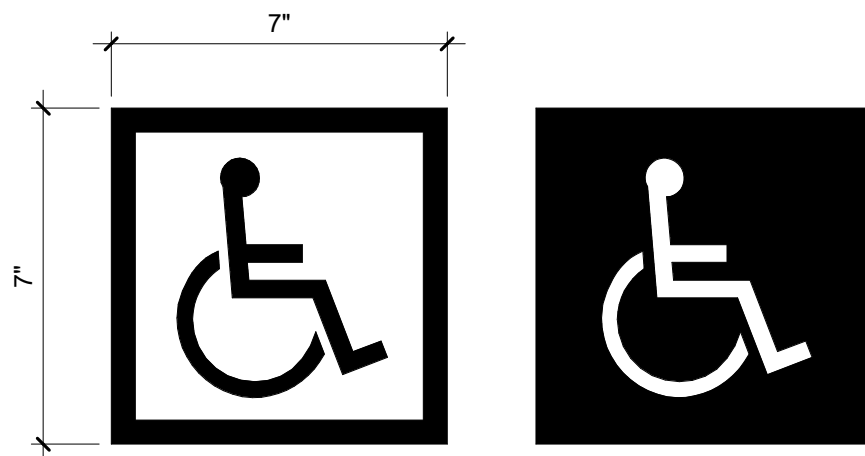
D6 VINYL SIGNAGE - ENTER
3" = 1'-0"



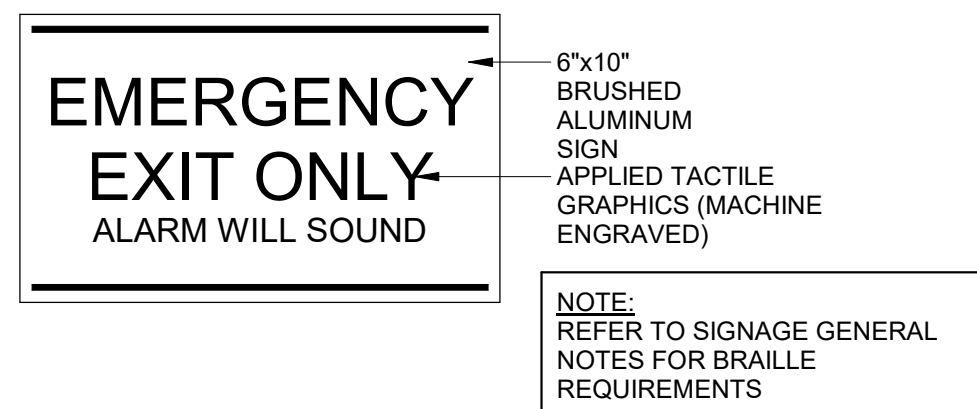
C1 VINYL SIGNAGE - EXIT
3" = 1'-0"



C2 INTERNATIONAL SYMBOLS
3" = 1'-0"



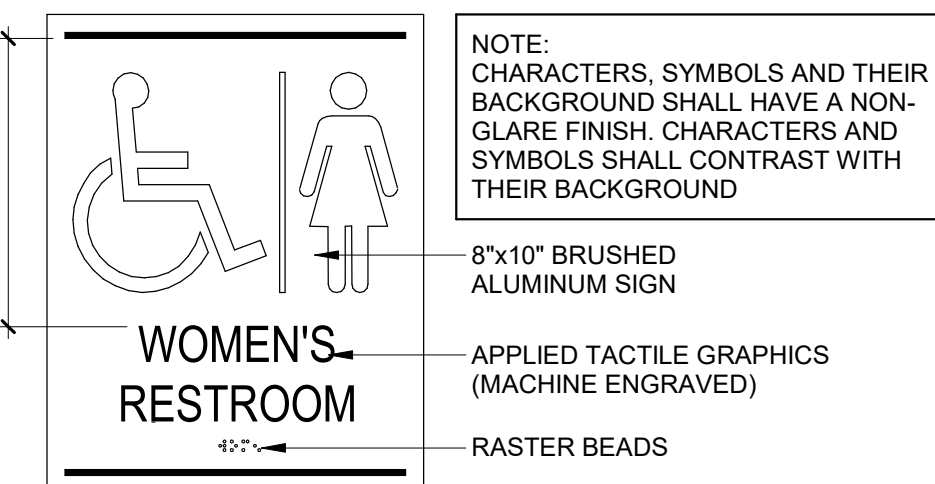
C4 TELEPHONES - COURTESY PHONE
3" = 1'-0"



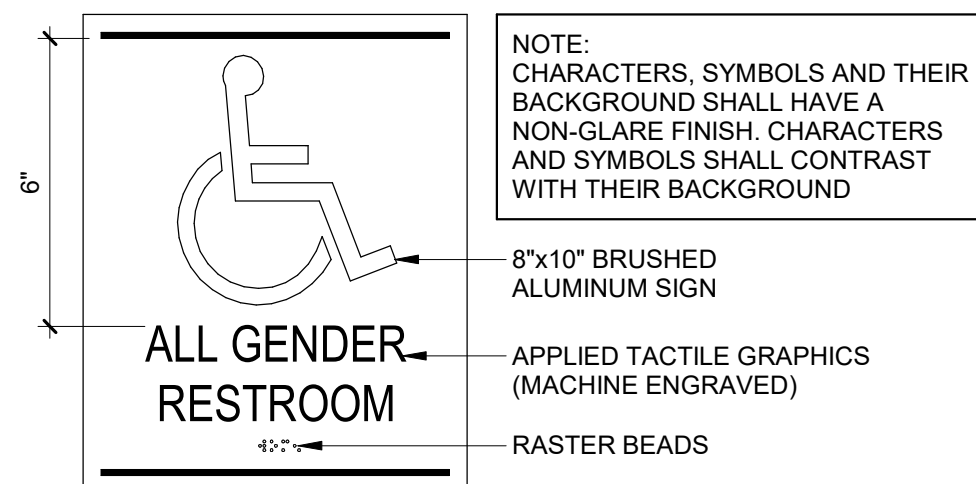
C5 EXIT SIGNAGE - EMERGENCY EXIT
3" = 1'-0"



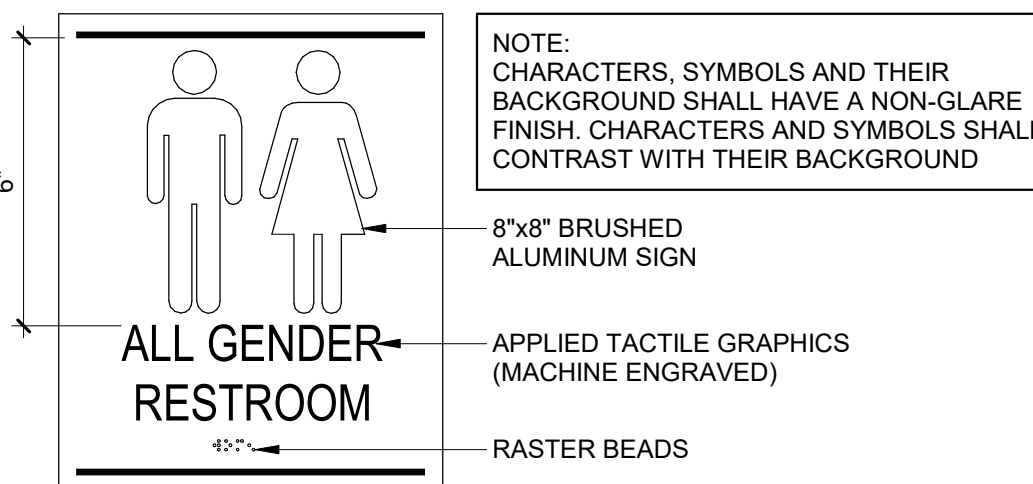
C6 VINYL SIGNAGE - EMERGENCY EXIT
3" = 1'-0"



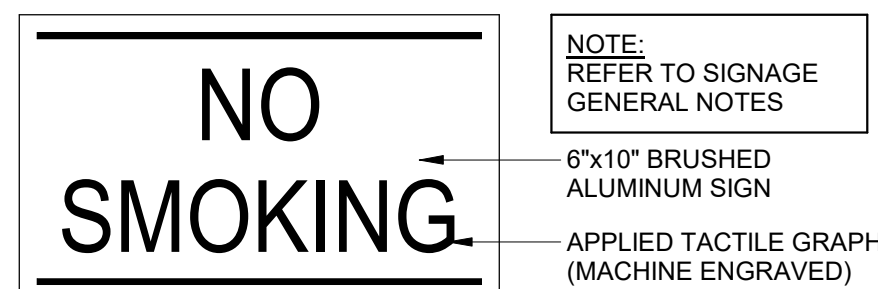
B1 IDENTIFICATION FOR SANITARY FACILITIES - WOMENS RR
3" = 1'-0"



B2 IDENTIFICATION FOR SANITARY FACILITIES - ALL GENDER RR 1
3" = 1'-0"



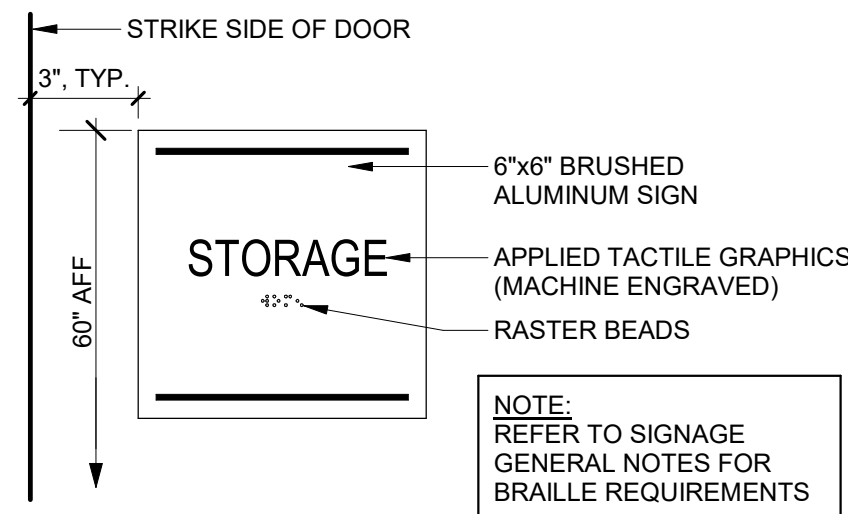
B3 IDENTIFICATION FOR SANITARY FACILITIES - ALL GENDER RR 2
3" = 1'-0"



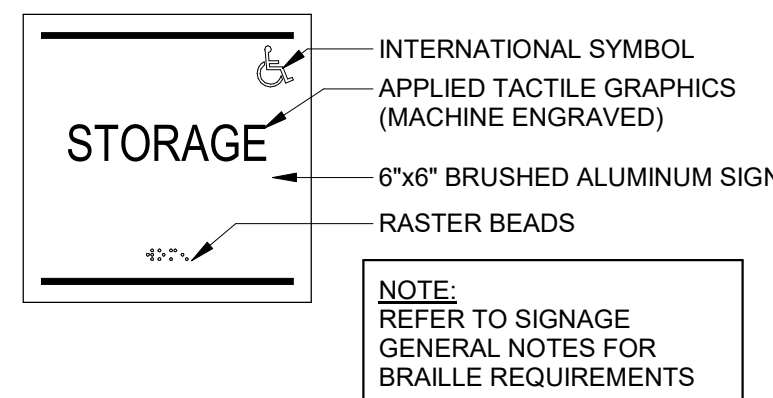
B4 ENVIRONMENTAL TOBACCO SMOKE CONTROL SIGNAGE - SIGN
3" = 1'-0"



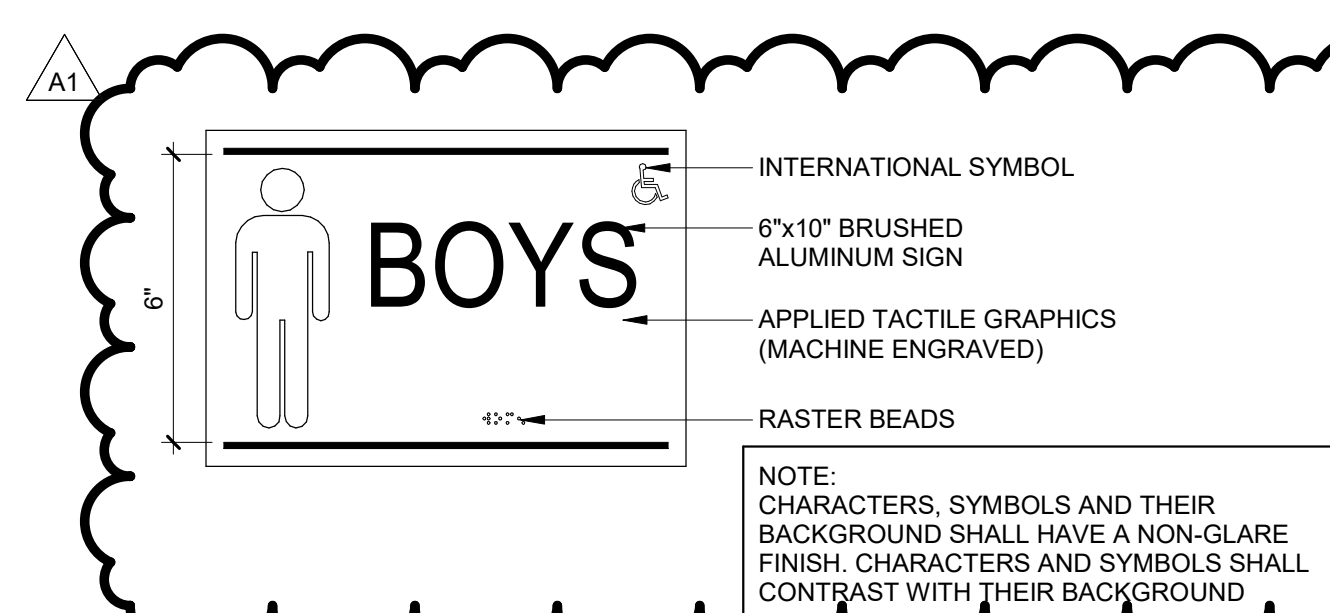
B5 IDENTIFICATION FOR SANITARY FACILITIES - ALL GENDER RR W/ SHOWER
3" = 1'-0"



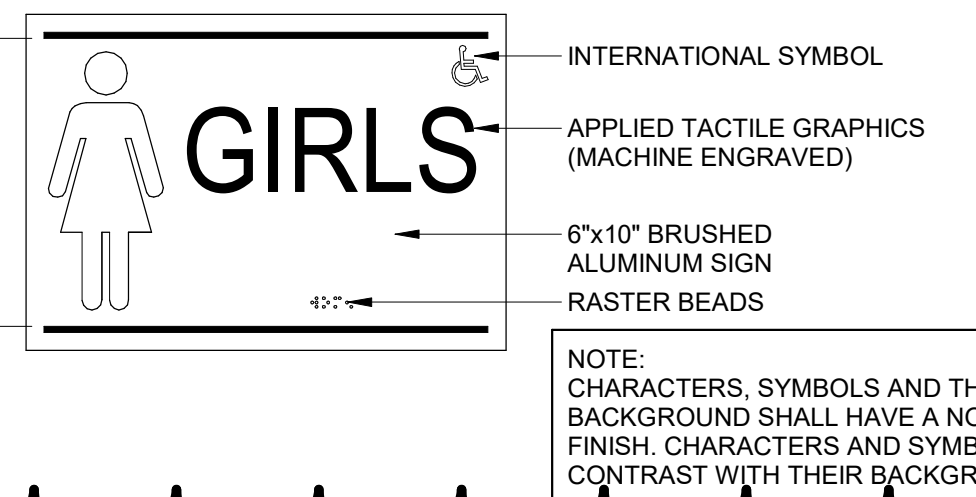
A1 ROOM IDENTIFICATION SIGNAGE
3" = 1'-0"



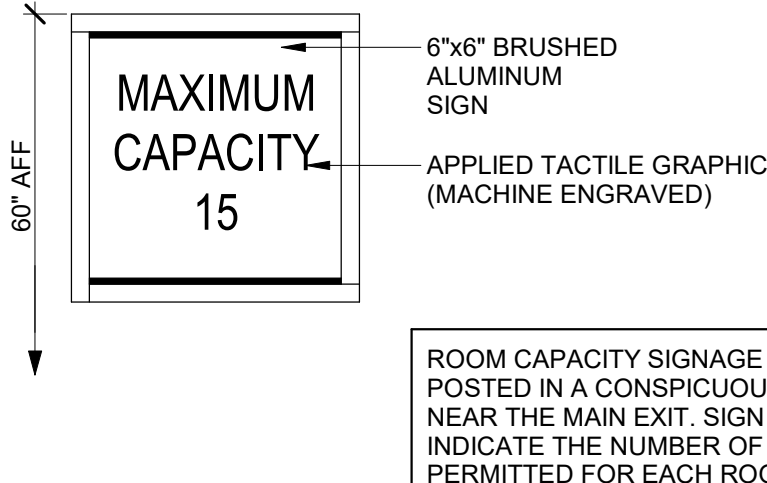
A2 ACCESSIBLE ROOM IDENTIFICATION SIGNAGE
3" = 1'-0"



A3 IDENTIFICATION FOR SANITARY FACILITIES - BOYS
3" = 1'-0"



A4 IDENTIFICATION FOR SANITARY FACILITIES - GIRLS
3" = 1'-0"



A5 ROOM CAPACITY SIGNAGE
3" = 1'-0"



A6 IDENTIFICATION FOR SANITARY FACILITIES - MENS RESTROOM
3" = 1'-0"

LIFE TIME
HEALTHY WAY OF LIFE
2900 CORPORATE PLACE CHANHASSEN, MN 55317
CONSULTANT

LIFE TIME
PROPERTY DEVELOPMENT

PROJECT INFORMATION

Holladay, UT

1975 East Rodeo Walk Drive
Holladay, Utah 84117

DRAWING LOG		
REV	DATE	DESCRIPTION
A1	04/17/26	Addendum 01

CONFIDENTIALITY NOTICE

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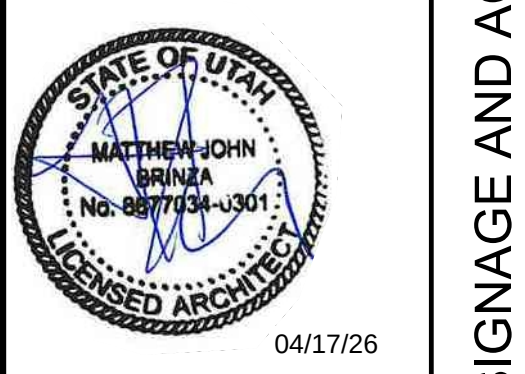
PROFESSIONAL OF RECORD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF UTAH.

NAME: MATTHEW J BRINZA REG. NO. 8877034-0301

EXP DATE: 05/31/26

STAMP



ISSUE DATE: 02/09/26

SHEET NO.

G030

PUBLICATIONS

ISSUE FOR PERMIT / BID

SIGNAGE AND ACCESSIBILITY STANDARDS

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SITE CODE PLAN NOTES:

1. SEE BUILDING CODE, ACCESSIBILITY AND SIGNAGE PLANS FOR ADDITIONAL CODE INFORMATION

GENERAL NOTES:

1. EVERY ASSEMBLY OCCUPANCY WITH AN OCCUPANT LOAD OF 50 OR MORE IS TO BE POSTED WITH THE APPROVED OCCUPANT LOAD
2. ACCESSIBLE STOOPS TO CONNECT WITH ACCESSIBLE ROUTE (1:20 RUNNING SLOPE, 1:48 CROSS SLOPE)

LIFE TIME
HEALTHY WAY OF LIFE

2900 CORPORATE PLACE CHANHASSEN, MN 55317

CONSULTANT

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04/17/26

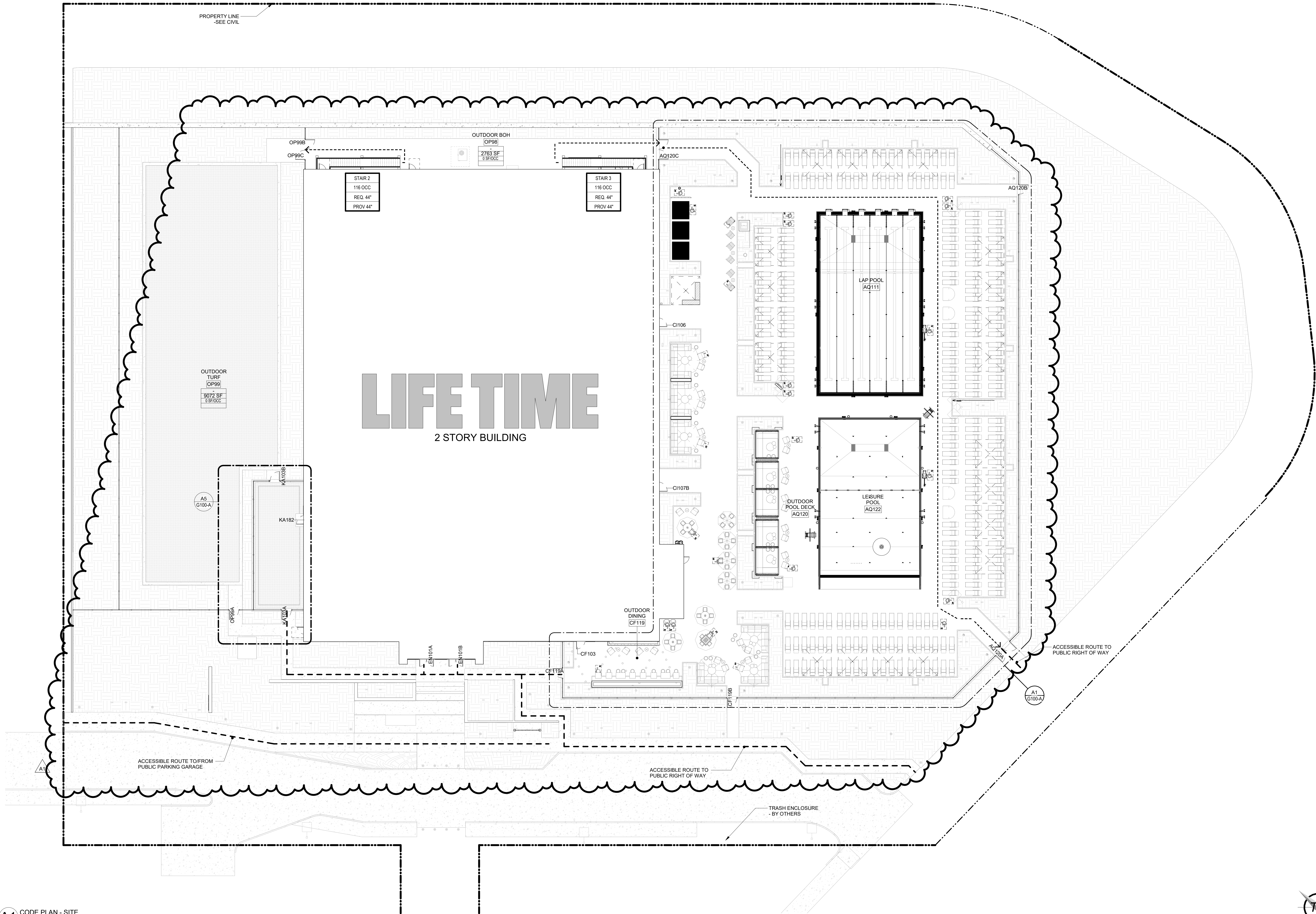
ISSUE DATE: 02/09/26

SHEET NO.

G100

PUBLICATIONS
ISSUE FOR PERMIT / BID

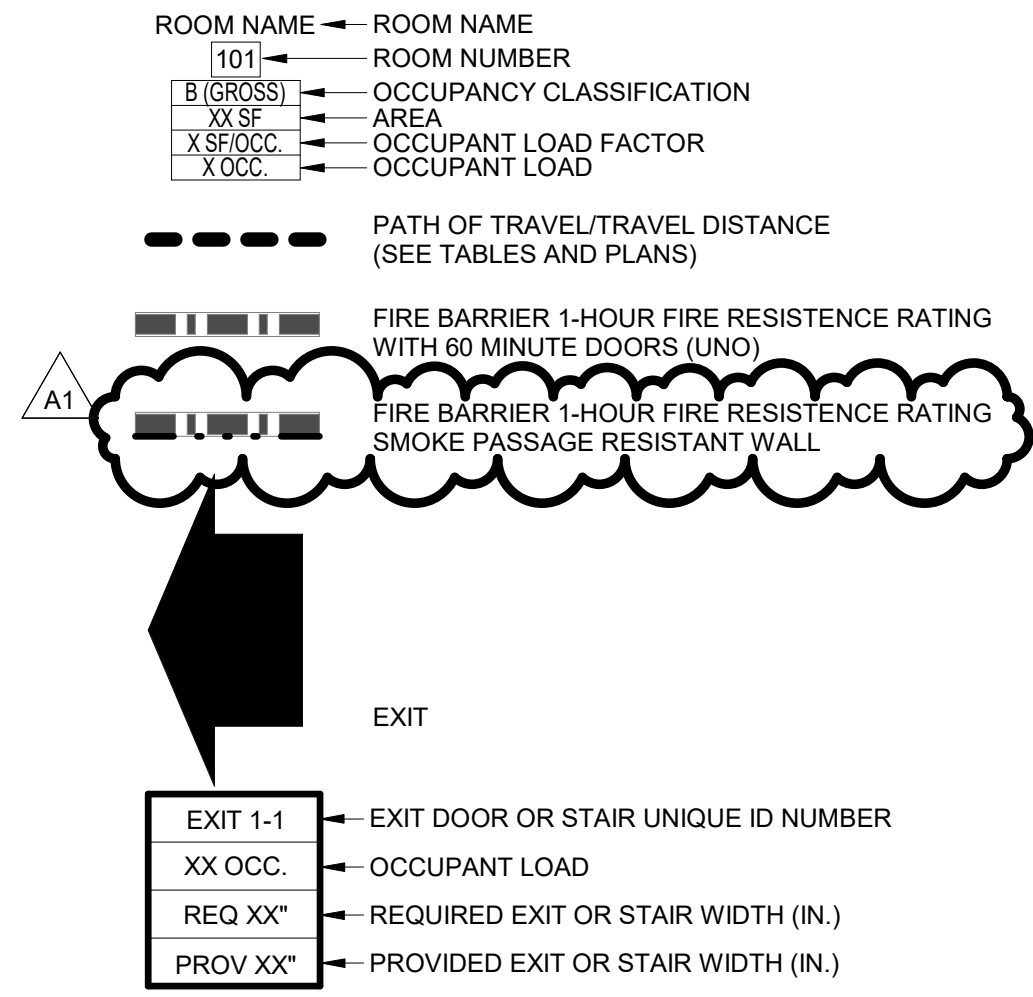
CODE PLAN - SITE PLAN



A1 CODE PLAN - SITE
1/16" = 1'-0"

CODE LEGEND:

AED	AUTOMATED EXTERNAL DEFIBRILATOR
EWC	ELECTRIC WATER COOLER
EPH	EXITING PANIC HARDWARE AT DOOR
FE	FIRE EXTINGUISHER ON BRACKET (SHOWN ROUND) FE SHOWN ROUND AT MILLWORK TO BE MOUNTED WITHIN MILLWORK. SHOWN ON PLANS OUTSIDE MILLWORK FOR CLARITY ONLY. COORDINATE WITH MILLWORK - REF SPECIFICATIONS, DIVISION 10 44 00
FE(K)	FIRE EXTINGUISHER, CLASS K, ON BRACKET
FEC-1	FIRE EXTINGUISHER CABINET- SEMI-RECESSED (SHOWN RECTANGULAR) CUT WALL PADS AROUND CABINET - REF SPECIFICATIONS, DIVISION 10 44 00
FEC-2	FIRE EXTINGUISHER CABINET- SEMI-RECESSED (SHOWN RECTANGULAR) REF SPECIFICATIONS, DIVISION 10 44 00
FEC-3	FIRE EXTINGUISHER CABINET- FULL-RECESSED (SHOWN RECTANGULAR) REF SPECIFICATIONS, DIVISION 10 44 00
FEC-4	FIRE EXTINGUISHER CABINET- SURFACE MOUNT (PLASTIC) (SHOWN RECTANGULAR) REF SPECIFICATIONS, DIVISION 10 44 00
MEL	ELECTROMAGNETIC EGRESS LOCK
P/P	PUSH PULL
SS	SERVICE SINK



GENERAL NOTES:

1. EVERY ASSEMBLY OCCUPANCY WITH AN OCCUPANT LOAD GREATER THAN 49 IS TO BE POSTED WITH THE APPROVED OCCUPANT LOAD.
2. IN THE CHILD CARE AREA, THE CHILDREN ARE PROVIDED WITH 2.5 HOURS MAXIMUM SUPERVISED CARE. PARENTS MUST REMAIN ON PREMISES.
3. ACCESSIBLE STOOPS TO CONNECT WITH ACCESSIBLE ROUTE (1:20 RUNNING SLOPE, 1:48 CROSS SLOPE).
4. FIRESTOPPING AT ALL DUCT, CONDUIT, AND PIPE PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOOR ASSEMBLIES. PROVIDE A FIRESAFE CONDITION TO MEET UL 1479, UL 2078, OR ASTM E-814 CRITERIA.

EXIT SUMMARY - STAIRS			
EXIT COMPONENT	No of OCC	REQD. WIDTH	PROV. WIDTH
STAIR 1	420	84	7' - 0"
STAIR 2	<varies>	44	3' - 8"
STAIR 3	<varies>	44	3' - 8"

LIFE TIME
HEALTHY WAY OF LIFE
2900 CORPORATE PLACE CHANHASSEN, MN 55317
CONSULTANT
LIFE TIME
PROPERTY DEVELOPMENT

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Holladay, Utah 84117

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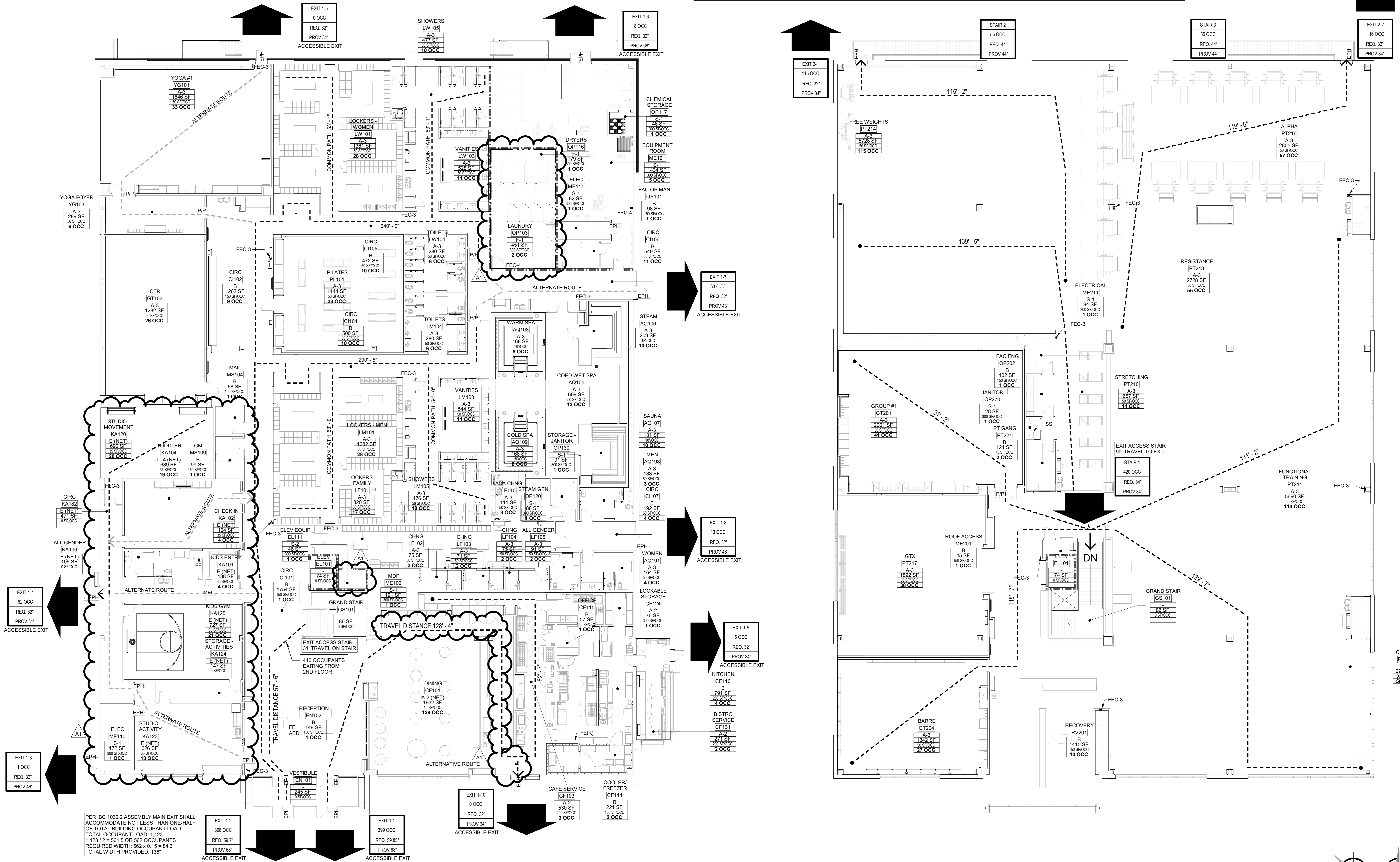


ISSUE DATE: 02/09/26

SHEET NO.

G101

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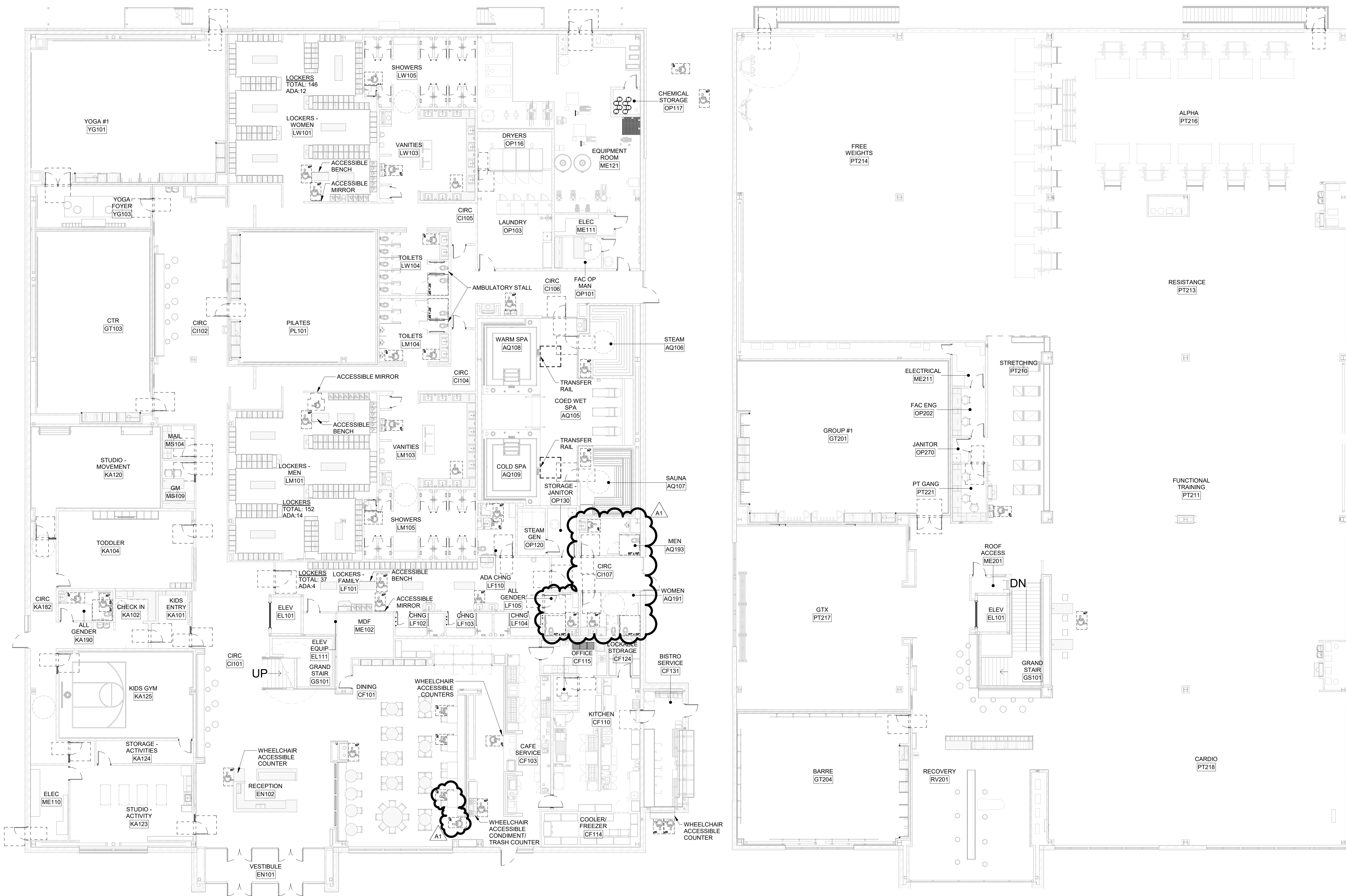


A1 CODE PLAN - FIRST FLOOR
3/32" = 1'-0"

A4 CODE PLAN - SECOND FLOOR
3/32" = 1'-0"

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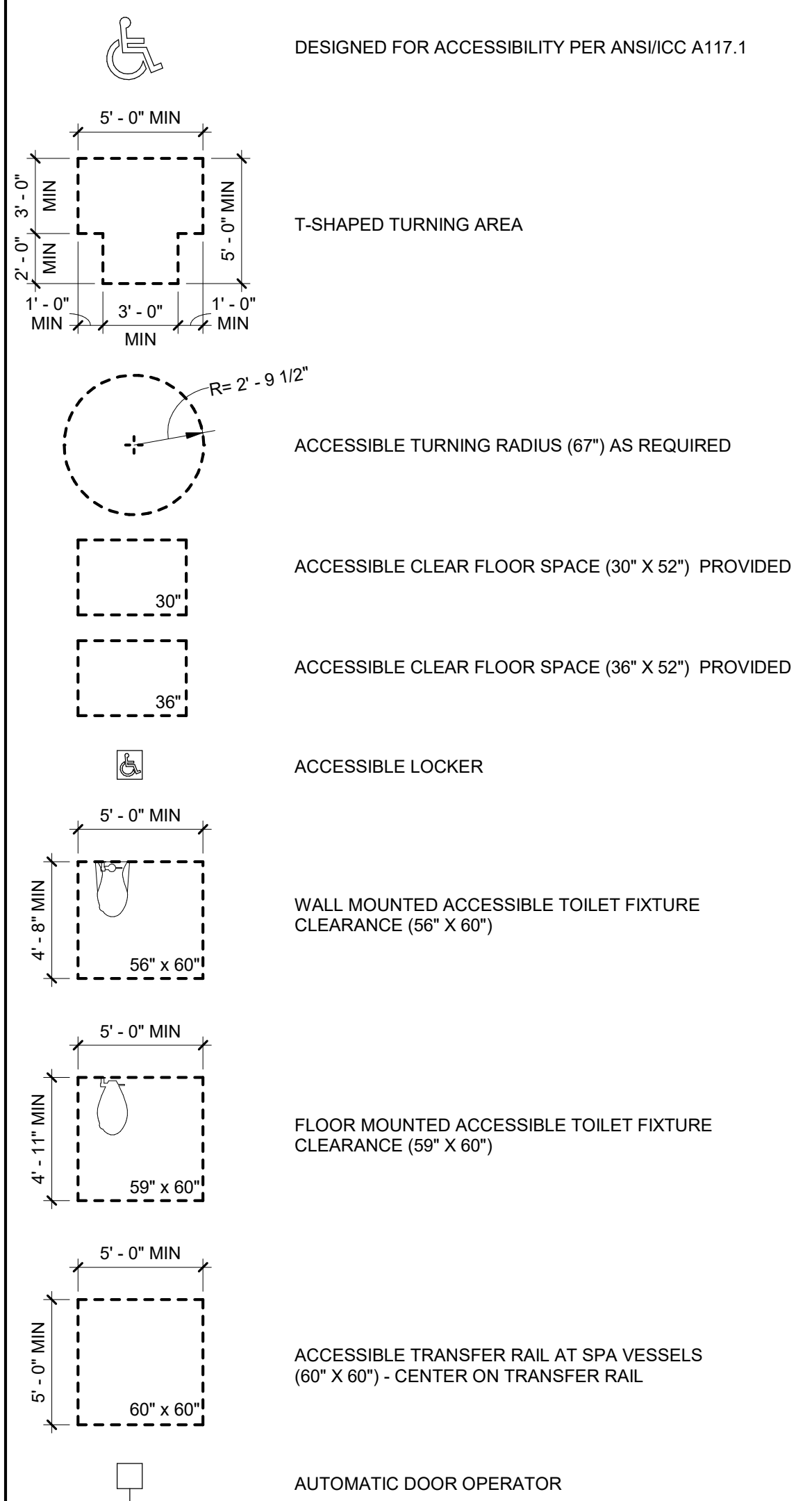
A1 ACCESSIBILITY PLAN - FIRST FLOOR
3/32" = 1'-0"

A3 ACCESSIBILITY PLAN - SECOND FLOOR

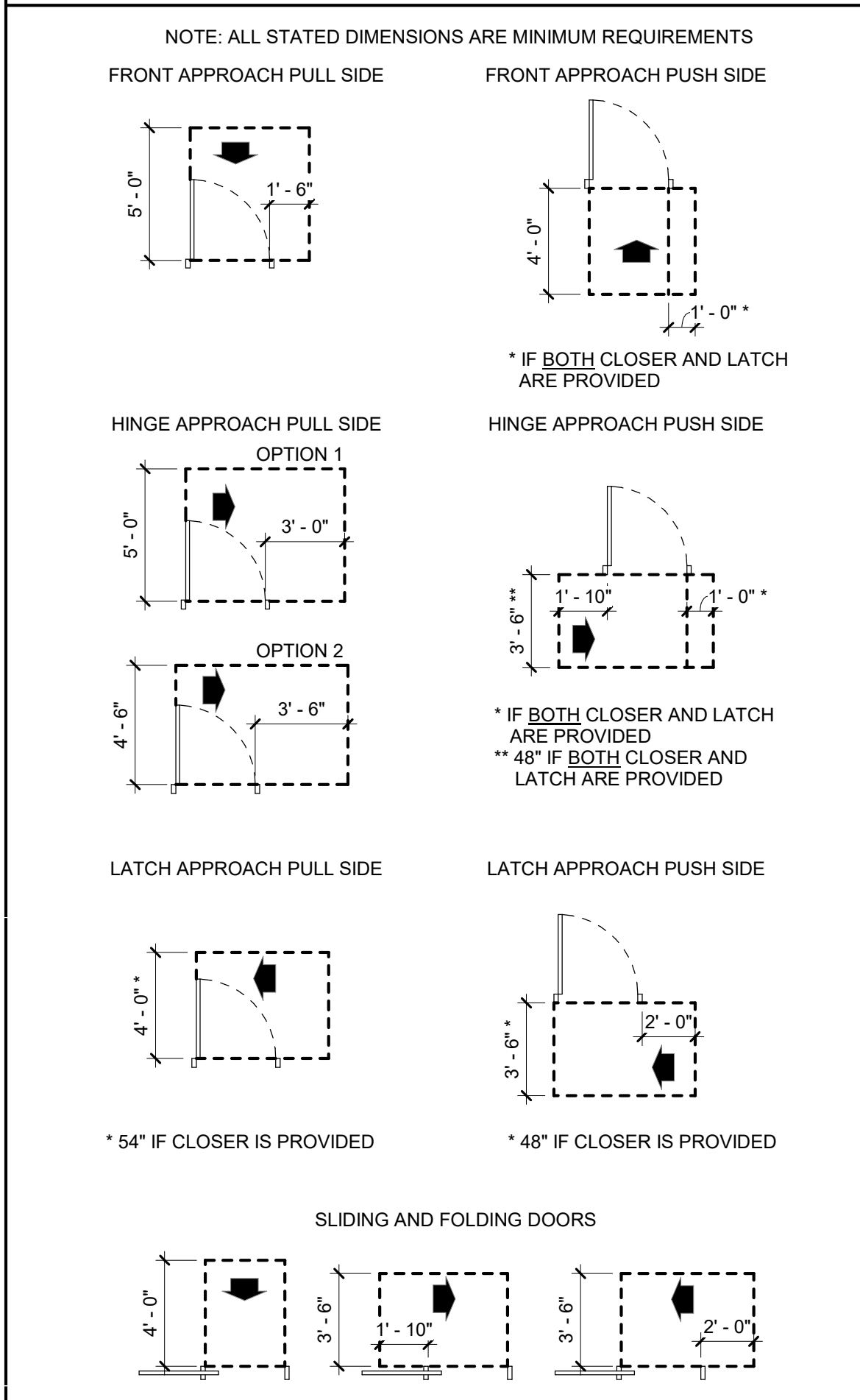
GENERAL NOTES:

1. ALL EXIT SIGNS AND EXIT ROUTES SIGNS SHALL BE INSTALLED PER G030. PRECISE SIGN LOCATIONS TO BE VERIFIED DURING INSPECTION
2. TYPICAL SIGN HEIGHT TO TOP OF MOST SIGNS = 60" (UNLESS NOTED OTHERWISE)
3. PLACE SIGN TO HANDLE SIDE OF DOOR IF PLACED NEXT TO DOOR
4. IF GROUPS OF SIGNS ARE PLACED CONSULT ARCHITECT FOR PROPER PLACEMENT
5. EVERY ASSEMBLY OCCUPANCY IS TO BE POSTED WITH THE APPROVED OCCUPANT LOAD
6. SEE CODE INFORMATION SHEET FOR ADDITIONAL INFORMATION
7. SEE INTERIOR ELEVATIONS - MOUNTING HEIGHTS SHEET FOR COMPLIANT FIXTURE PARAMETERS

LEGEND:



DOOR ACCESSIBILITY CLEARANCES:



LIFE TIME
HEALTHY WAY OF LIFE
2900 CORPORATE PLACE CHANHASSEN, MN 55317
CONSULTANT

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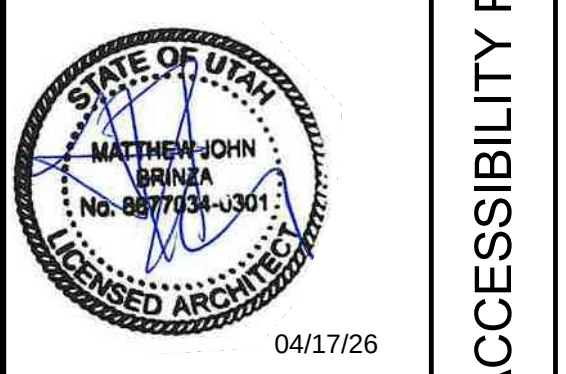
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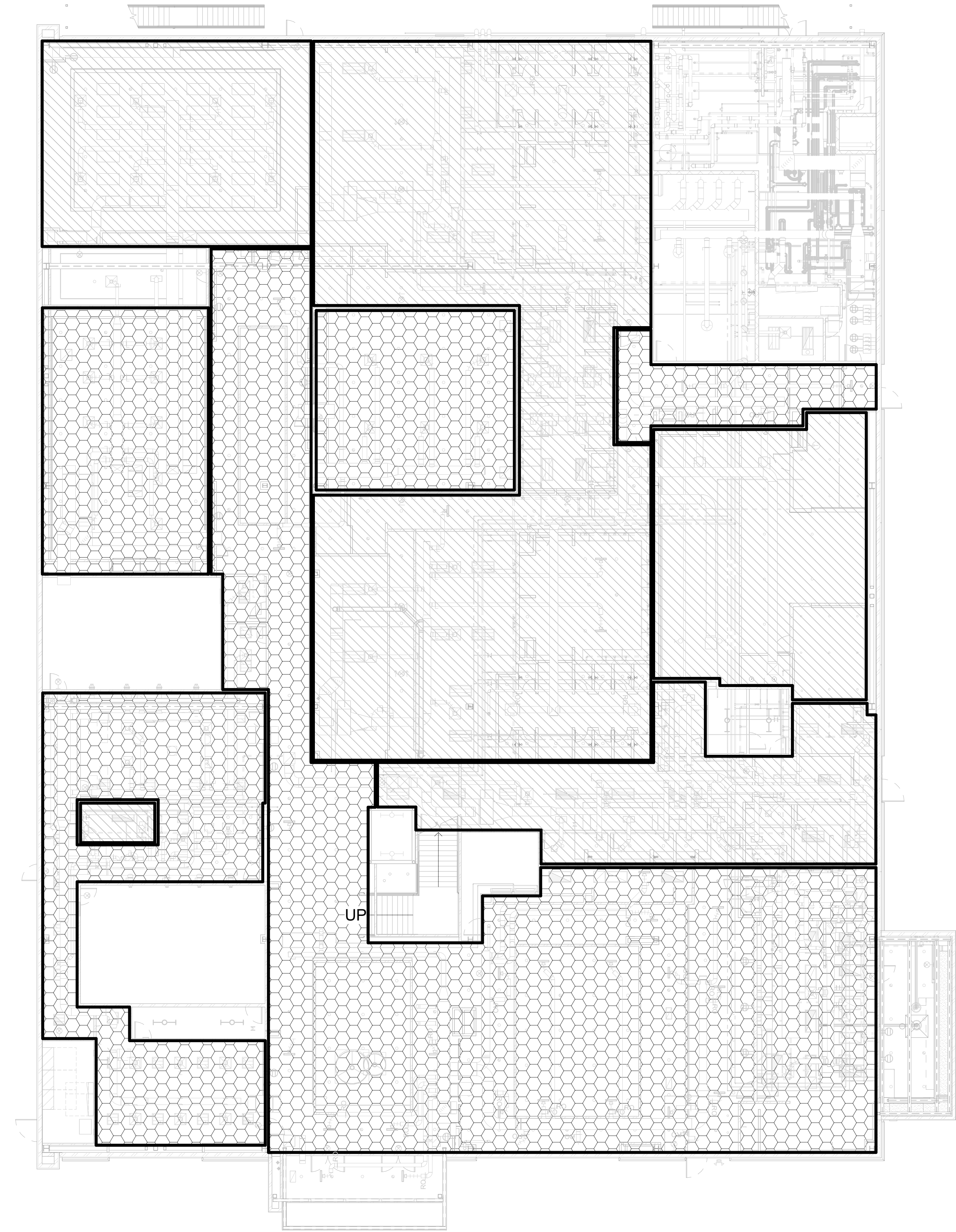
NAME: MATTHEW J BRINZA
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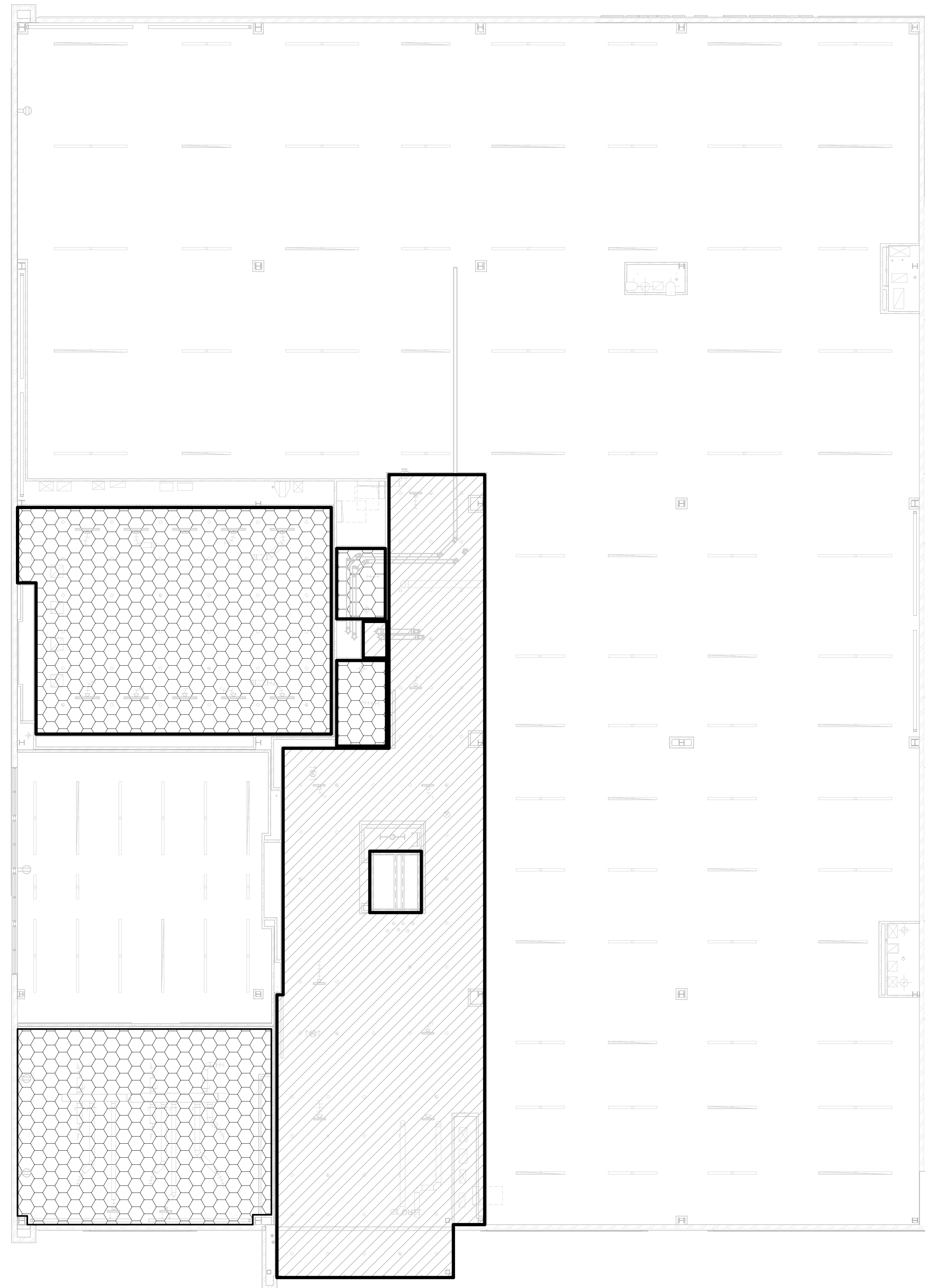
ISSUE DATE: 02/09/26
SHEET NO. G111
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ISSUE FOR PERMIT / BID

ACCESSIBILITY PLANS - FIRST AND SECOND FLOOR

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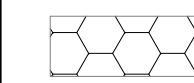


A1 PLENUM CEILING PLAN - FIRST FLOOR
3/32" = 1'-0"



A4 PLENUM CEILING PLAN - SECOND FLOOR
3/32" = 1'-0"

PLENUM LEGEND

-  ENCLOSED NON-COMBUSTIBLE CEILING SPACE WITH DUCTED EXHAUST/RETURN
-  ENCLOSED NON-COMBUSTIBLE RETURN AIR PLENUM. PLENUM RATED PIPING, CABLING, ETC ARE REQUIRED. SEE MEP
-  OPEN TO STRUCTURE ABOVE
-  SOLID DARK LINE INDICATES FULL HEIGHT PARTITION AND/OR PLENUM SEPARATION. SEE PLANS FOR ADDITIONAL FULL HEIGHT PARTITIONS AND ADDITIONAL INFORMATION.

LIFE TIME
HEALTHY WAY OF LIFE
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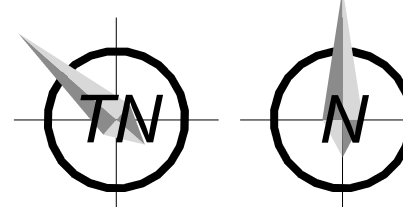


ISSUE DATE: 02/09/26

SHEET NO.

G130

PUBLICATIONS
ISSUE FOR PERMIT / BID



CEILING PLENUM AND FIREPROOFING KEY PLANS

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FIRE RESISTANT RATINGS - ANSI / UL 263 DESIGN No. V486

UL Product iQ®



Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States

Design Criteria and Allowable Variations

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

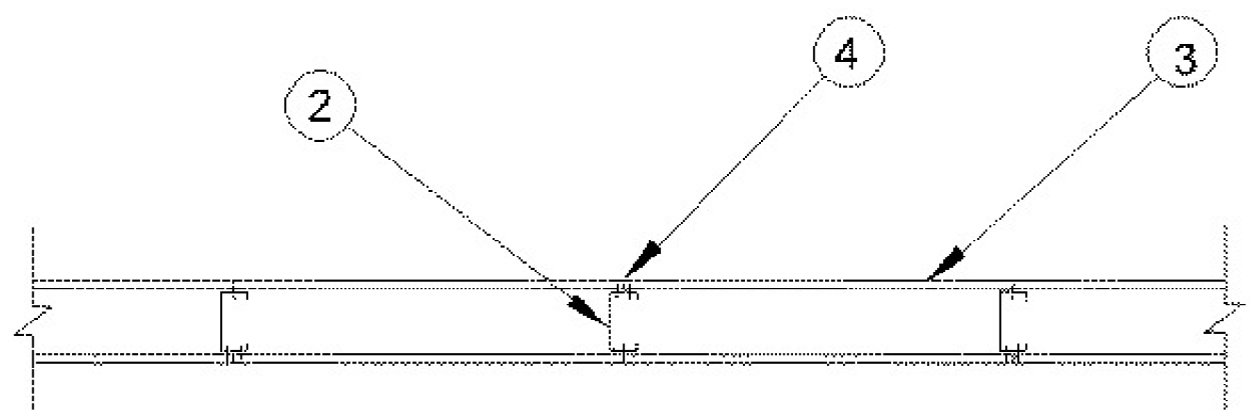
Design Criteria and Allowable Variations

Design No. V450

February 6, 2024

Nonbearing Wall Rating — 1, 2 or 2-1/2 Hr (See Items 1, 2, 3 through 3G, 3K)

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



1. Framing Members* — Floor and Ceiling Runners — (Not Shown) — For a 1 hour rating, use with Items 3, through 3K only, proprietary channel shaped, min. 3-5/8 in. wide, fabricated from min. 0.0150 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max. For a 2 hour rating, use with Items 3A through 3F, proprietary channel shaped, min. 1-5/8 in. wide, fabricated from min. 0.0150 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max. For a 2-1/2 hour rating, use with Item 3F, proprietary channel shaped, min. 2-1/2 in. wide, fabricated from min. 0.0150 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max. Gypsum board may be applied vertically or horizontally as described in Items 3 through 3F.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWS L L C — ProTRAK™

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tr S ProTRAK

2. Framing Members* — Steel Studs — For a 1 hour rating, use with Items 3 through 3K only, proprietary channel shaped studs, min. 3-5/8 in. wide, fabricated from min. 0.0150 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. For a 2-1/2 hour rating, use with Item 3F only, proprietary channel shaped studs, min. 1-5/8 in. wide, fabricated from min. 0.0150 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. For a 2 hour rating, use with Items 3A through 3I only, proprietary channel shaped studs, min. 1-5/8 in. wide, fabricated from min. 0.0150 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Gypsum boards may be applied vertically or horizontally as described in Items 3 through 3I.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWS L L C — ProSTUD™

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tr S ProSTUD

3. Gypsum Board* — For a 1 hour rating, one layer of 5/8 in. thick gypsum board applied vertically to studs with #6 x 1-1/4 in. long bugle head screws spaced 8 in. OC at the perimeter and 12 in. OC in the field of the boards. Vertical joints are staggered from vertical joints on opposite sides of the wall.

UNITED STATES GYPSUM CO — Type C

USO BORAL DRYWALL SFZ LLC — Type C

3A. Gypsum Board* — (As an alternate to Item 3) — For 1 Hour Rating, one layer of 5/8 in. thick gypsum board applied vertically to studs with #6 x 1 in. long bugle head screws spaced 8 in. OC at the perimeter and in the field of the boards. Vertical joints are staggered from vertical joints on opposite sides of the wall. For 1 Hour Rating, one layer of 5/8 in. thick gypsum board applied horizontally to studs with #6 x 1 in. long bugle head screws spaced 8-1/2 in. OC at the perimeter and in the field of the boards with the last two screws installed 1 and 2-1/2 in. from the edges of the boards. Vertical butt joints are staggered from vertical butt joints on opposite sides of the wall. Horizontal joints need not be staggered on opposite sides of the wall or backed by steel framing. For 2 Hour Rating (Not Shown), two layers of 5/8 in. thick gypsum board applied horizontally. Base layer of board attached to studs with #6 x 1 in. long bugle head screws spaced 16 in. OC, starting 8 in. from the edge of the board with one screw 1-1/4 in. from the edge. Face layer of board attached to studs with #6 x 1-5/8 in. long bugle head screws spaced 12 in. OC, starting 8 in. from the edge of the board with one screw 1-1/4 in. from the edge. Horizontal joints on the face layer are staggered 12 in. from the base layer. Horizontal joints need not be backed by steel framing.

UNITED STATES GYPSUM CO — Type SCX

USO BORAL DRYWALL SFZ LLC — Type SCX

3B. Gypsum Board* — (As an alternate to Item 3) — For 1 hr rating (Vertical application) — One layer of 5/8 in. thick gypsum board applied vertically to studs with #6 x 1-1/4 in. long bugle head screws spaced 8 in. OC at the perimeter and 12 in. OC in the field of the boards. Vertical joints are staggered from vertical joints on opposite sides of the wall. For 2 hr rating (Vertical application - Not shown) - Two layers of 5/8 in. thick gypsum board applied vertically. Inner layer attached to studs with #6 x 1 in. long bugle head screws spaced 12 in. OC along the top and bottom tracks and 16 in. OC in the field and along the vertical edges. Outer layer attached to studs with #6 x 1-5/8 in. long bugle head screws spaced 12 in. OC along the top and bottom tracks and 16 in. OC in the field and along the vertical edges with screws offset 5 in. from inner layer. Vertical joints are staggered over studs and staggered between layers and on opposite sides of the wall. For 2 hr rating (Horizontal application) — Two layers of 5/8 in. thick gypsum board applied horizontally. Inner layer attached to studs with #6 x 1 in. long Type 5 bugle head screws spaced 24 in. OC with the 1st screw installed 1-1/4 in. from the board edge and in the track only spaced 24 in. OC. Outer layer attached to studs with 1-5/8 in. long Type 5 bugle head screws spaced 12 in. OC with the 1st and 2nd screws installed 1-1/4 in. and 8 in. from the board edge, respectively, and to the track only spaced 16 in. OC. Horizontal joints on the face layer are staggered 12 in. from the base layer. Horizontal joints need not be backed by steel framing.

NATIONAL GYPSUM CO — Types EXP-C, FSX, FSX-C, FSL, FSMR-C, FSW, FSW-3, FSW-6, FSW-8, FSW-C

3C. Gypsum Board* — (As an alternate to Item 3) — For 1 hr rating (Vertical application) — One layer of 5/8 in. thick gypsum board applied vertically to studs with #6 x 1-1/4 in. long bugle head screws spaced 8 in. OC at the perimeter and 12 in. OC in the field of the boards. Vertical joints are staggered from vertical joints on opposite sides of the wall. For 1 hr rating (Horizontal application) — One layer of 5/8 in. thick gypsum board applied horizontally to studs with 1 in. long Type 5 bugle head screws spaced 8 in. OC; and to floor and ceiling runners with 1 in. long Type 5 bugle head screws spaced 8 in. OC. In the field and along the vertical edges, gypsum panels fastened to framing with 1 in. long Type 5 or S-12 steel screws every 8 in. OC in the field and 12 in. along the top and bottom edges of the wall. For 2 hr rating (Not Shown) - Two layers of 5/8 in. thick gypsum board applied vertically or horizontally. Inner layer attached to studs with #6 x 1 in. long bugle head screws spaced 12 in. OC along the top and bottom tracks and 16 in. OC in the field and along the vertical edges. Outer layer attached to studs with #6 x 1-5/8 in. long bugle head screws spaced 12 in. OC along the top and bottom tracks and 16 in. OC in the field and along the vertical edges. Vertical joints are staggered over studs and staggered between layers and on opposite sides of the wall. Horizontal joints on the face layer are staggered 12 in. from the base layer. Horizontal joints need not be backed by steel framing.

CERTAINTED GYPSUM INC — Types LGF2A, LGF6A, LGFC-C/A, LGFC-WD

3D. Gypsum Board* — (As an alternate to Item 3) — For 1 hr rating (Vertical application) — One layer of 5/8 in. thick gypsum board applied vertically to studs with #6 x 1 in. long bugle head screws spaced 8 in. OC at the perimeter and 12 in. OC in the field of the boards. Vertical joints are staggered from vertical joints on opposite sides of the wall. For 2 hr rating (Vertical application - Not Shown) - Two layers of 5/8 in. thick gypsum board applied vertically. Inner layer attached to studs with #6 x 1 in. long bugle head screws spaced 24 in. OC along the top and bottom tracks and 24 in. OC in the field and along the vertical edges. Outer layer attached to studs with #6 x 1-5/8 in. long bugle head screws spaced 16 in. OC along the top and bottom tracks and 16 in. OC in the field and along the vertical edges. Vertical joints are staggered over studs and staggered between layers and on opposite sides of the wall.

GEORGIA-PACIFIC GYPSUM L L C — Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

3E. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Item 3B) — Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 3B. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in Item 3B, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 3B.

NATIONAL GYPSUM CO — Type FSW

3F. Gypsum Board* — (As an alternate to Item 3) — For 1 Hour Rating — One layer of 5/8 in. thick, 4 ft. wide, gypsum board applied vertically to studs with #6 x 1 in. long bugle head screws spaced 8 in. OC at the perimeter, starting 4 in. from the edge of the boards, and 12 in. OC in the field of the boards, starting 6 in. from the edge of the board. Vertical joints are staggered from vertical joints on opposite sides of the wall. For 2 or 2-1/2 Hour Rating - (Not Shown) - Two layers of 5/8 in. thick, 4 ft. wide, gypsum board applied vertically. Inner layer attached with #6 x 1 in. long bugle head screws spaced 12 in. OC along the top and bottom tracks with one screw located 6 in. from each edge of the board and 16 in. OC along the studs with one screw located 8 in. from one edge of the board. Outer layer attached with #6 x 1-5/8 in. long bugle head screws spaced 12 in. OC along the top and bottom tracks with one screw located 1-1/2 in. from each edge of the board and 16 in. OC along the studs with one screw located 8 in. from one edge of the board as to offset the face layer screws 8 in. from the base layer screws. Vertical joints are centered over studs and staggered between layers and on opposite sides of the wall.

AMERICAN GYPSUM CO — Types AGX-1, Mini-Glass, LightGlo

3G. Gypsum Board* — (As an alternate to Item 3) — For 1 Hour Rating — One layer of 5/8 in. thick, 4 ft. wide, gypsum panels with beveled, square or tapered edges. Gypsum panels applied vertically or horizontally with joints centered over studs. 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. When applied horizontally, gypsum panels fastened to framing with 1 in. long Type 5 or S-12 steel screws 1-1/2 in. from board edges, 3 in. from board edge, every 8 in. OC in the field, and 12 in. along the top and bottom edges of the wall. When applied vertically, gypsum panels fastened to framing with 1 in. long Type 5 or S-12 steel screws every 8 in. OC in the field and 12 in. along the top and bottom edges of the wall. For 2 hr rating - (Not Shown) - Two layers of 5/8 in. thick, 4 ft. wide, gypsum board applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints to be staggered between layers and on opposite side of wall. Horizontal joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints between layers to be staggered a min of 12 in. For vertical application of gypsum board, base layer to be fastened with screws spaced 16 in. OC and face layer to be fastened with 1-5/8 screws spaced 16 in. OC. In either vertical or horizontal applications, Type 5 or Type S-12 steel screws are to be used.

CERTAINTED GYPSUM INC — Type X-1, Easy-Lite Type X-2, GlasRock, Type Silent FX

3H. Gypsum Board* — (As an alternate to Items 3 through 3G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically only and fastened to the studs and plates with 1 in. long, Type 5 steel screws spaced, 12 in. OC.

NATIONAL GYPSUM CO — Type SBWB

3I. Gypsum Board* — (As an alternate to Items 3-3H) — Required to be used with Item 5) — For 1 Hour Rating — One layer of 5/8 in. thick, 4 ft. wide, gypsum panels with beveled, square or tapered edges. Gypsum panels applied vertically or horizontally with joints centered over studs. 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. When applied horizontally, gypsum panels fastened to framing with 1 in. long Type 5 or S-12 steel screws 1-1/2 in. from board edges, 3 in. from board edge, and every 8 in. OC in the field, and 12 in. along the top and bottom edges of the wall. When applied vertically, gypsum panels fastened to framing with 1 in. long Type 5 or S-12 steel screws every 8 in. OC in the field and 12 in. along the top and bottom edges of the wall. For 2 hr rating - (Not Shown) - Two layers of 5/8 in. thick, 4 ft. wide, gypsum board applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints to be staggered between layers and on opposite side of wall. 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 between layers to be staggered a min of 12 in. For vertical application of gypsum board, base layer to be fastened with 1 in. screws spaced 12 in. OC and face layer to be fastened with 1-5/8 in. screws spaced 12 in. OC. For horizontal application of gypsum board, base layer to be fastened with screws spaced 16 in. OC and face layer to be fastened with 1-5/8 screws spaced 16 in. OC. In either vertical or horizontal applications, Type 5 or Type S-12 steel screws are to be used.

CERTAINTED GYPSUM INC — 5/8 in. Easy-Lite Type X

3J. Gypsum Board* — (As an alternate to Item 3) — For 1 hr rating (Vertical application) — One layer of 5/8 in. thick gypsum board applied vertically to studs with #6 x 1 in. long bugle head screws spaced 8 in. OC at the perimeter and 12 in. OC in the field of the boards. Vertical joints are staggered from vertical joints on opposite sides of the wall. For 2 hr rating (Vertical application - Not shown) - Two layers of 5/8 in. thick gypsum board applied vertically. Inner layer attached to studs with #6 x 1 in. long bugle head screws spaced 24 in. OC along the top and bottom tracks and 24 in. OC in the field and along the vertical edges. Outer layer attached to studs with #6 x 1-5/8 in. long bugle head screws spaced 16 in. OC along the top and bottom tracks and 16 in. OC in the field and along the vertical edges. Vertical joints are centered over studs and staggered between layers and on opposite sides of the wall.

CERTAINTED GYPSUM INC — Type C

3K. Gypsum Board* — (As an alternate to Item 3) — For 1 Hour Rating — One layer of 5/8 in. thick, 4 ft. wide, gypsum panels with beveled, square or tapered edges. Gypsum panels applied vertically or horizontally with joints centered over studs. 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. Gypsum panels fastened to framing with 1 in. long Type 5 or S-12 steel screws every 12 in. OC in the field and perimeter when applied vertically or horizontally. For 2 hr rating - (Not Shown) - Two layers of 5/8 in. thick, 4 ft. wide, gypsum board applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints to be staggered between layers and on opposite side of wall. 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 between layers to be staggered a min of 12 in. For vertical application of gypsum board, base layer to be fastened with 1 in. screws spaced 12 in. OC and face layer to be fastened with 1-5/8 in. screws spaced 12 in. OC. For horizontal application of gypsum board, base layer to be fastened with screws spaced 16 in. OC and face layer to be fastened with 1-5/8 in. screws spaced 16 in. OC. In either vertical or horizontal applications, Type 5 or Type S-12 steel screws are to be used.

CCC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

3L. Gypsum Board* — As an alternate to Item 3 (For 1 hr rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type 5 steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. in the field and along the top and bottom edges of the wall for both vertical and horizontal applications.

NATIONAL GYPSUM CO — Types EXP-C, FSX, FSX-C, FSX-G, FSL, FSMR-C, FSW-C, FSW-3, FSW-6, FSW-C, FSWR-C

3M. Gypsum Board* — (As an alternate to Item 3) — For 1 Hour Rating (Required to be used with Item 5) — One layer of 5/8 in. thick, 4 ft. wide, gypsum panels with beveled, square or tapered edges. Gypsum panels applied vertically or horizontally with joints centered over studs. 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. Gypsum panels fastened to framing with 1 in. long Type 5 or S-12 steel screws spaced 8 in. OC in the field and 12 in. OC along the top and bottom edges of the wall. For 2 Hour Rating, Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers staggered one stud cavity. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal edge joints and horizontal butt joints in adjacent layers need not be staggered. Base layer panels fastened to framing with 1 in. Type 5 or S-12 steel screws spaced 16 in. OC. Face layer fastened to framing with 1-5/8 in. Type 5 or S-12 steel screws spaced 16 in. OC, starting with an 8 in. stagger at the joint. Additional terminating screw at face layer joint located approximately 1 in. from horizontal joints.

CERTAINTED GYPSUM INC — Types CLIX

3N. Gypsum Board* — (As an alternate to Item 3 for 1 hr rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type 5 steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications.

CERTAINTED GYPSUM INC — Type X-1, SilentFX, GlasRock, Type C

4. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to outer layer joints and screw heads. Paper tape, nom. 2 in. wide, embedded in first layer of compound over all joints.

5. Batts and Blankets* — (Optional, Not Shown) — Friction fit in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Fire Resistance.

See Batts and Blankets (B&B) for names of Classified companies.

6. Framing Members* — Resilient Channels — (Optional, Not Shown) — Resilient furring channels fabricated from min. 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type 12 panhead steel screws.

CLARKDIETRICH BUILDING SYSTEMS — Type RCSD, RCUR

7. Barrier Mesh — (Optional, Not Shown) — Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 3) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh clips may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.

CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

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

Last Updated on 2024-02-08

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FIRE RESISTANT RATINGS - ANSI / UL 263 DESIGN No. I506

3/4/2019

R506 - BXUV/R506 - UL Product Spec

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

Design Criteria and Allowable Variations

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design Criteria and Allowable Variations

Design No. I506

April 11, 2018

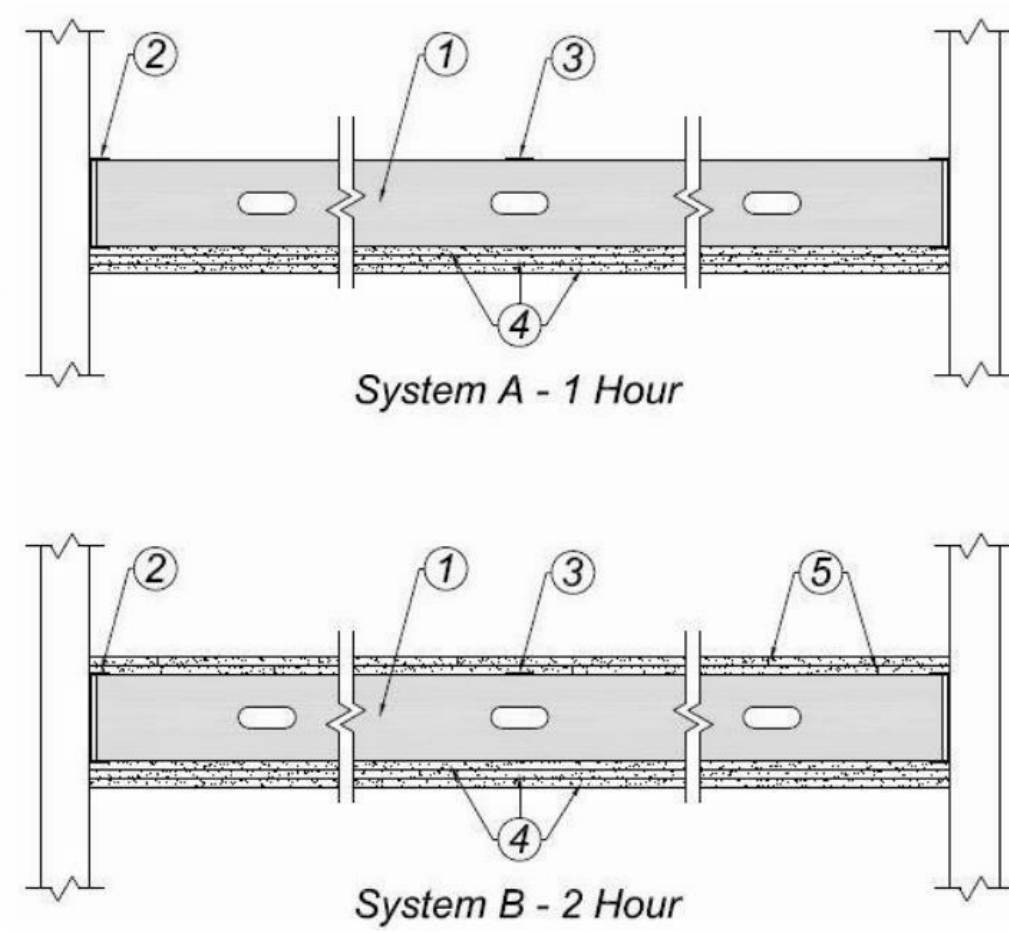
Non-Load Bearing Ceiling Membrane Rating- 1 and 2 Hr (See Item 5)

Load Restriction - 33% of Capacity.

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

3/4/2019

R506 - BXUV/R506 - UL Product Spec



1. Steel Joists — Min. 6 in. wide with min. 1-5/8 in. legs containing folded back flanges and formed from min. No. 20 MSG galv. steel (0.0329 in. thick bare metal thickness). Joists to be cut 1/2 in. to 3/4 in. less than the clear span between the vertical legs of the joist track. Joists spaced a max. 16 in. O.C. At each end of the joist, the upper joist flange shall be secured to the joist track with one 1/2 in. long pan-head steel screw. Joists are used at each end of the horizontal barrier to terminate the assembly at the adjoining wall. These end joists shall be secured to the adjoining wall in the same manner as the joist track (Item 2).

2. Ceiling Joist Track — Used to support steel joists at both ends of ceiling membrane structure. Min. 6 in. deep with min. 1-1/4 in. legs and formed from min. No. 20 MSG galv. steel (0.0329 in. thick bare metal thickness). Joist track attached to wall structure with fasteners spaced not greater than 24 in. O.C. at both the top and bottom of the vertical leg.

3. Steel Strap — Min. 2 in. wide strap formed from min. No. 20 MSG galv. steel (0.0329 in. thick bare metal thickness). Secure perpendicular to the upper joist flange at the centerline of the span using one 1/2 in. long pan-head steel screw at each joist. Steel strap to overlap one full joist bay at splice locations. As an alternate to the steel strap, joist track (Item 2) may be substituted and installed in the same manner as the steel straps for the 1 Hr. Raing. If a continues piece is not used, the abutted legs are installed on each side of the centerline of the span and overlap one full joist bay.

3/4/2019

R506 - BXUV/R506 - UL Product Spec

SYSTEM A - For 1 Hr, Rating

4. Gypsum Board* — Three layers of nom. 5/8 in. thick, 48 in. wide, gypsum board installed with long dimension perpendicular to the steel joists. Joints need not be staggered in individual layers. Base layer secured to joists and joist track with 1-1/4 in. long Type S-12 steel screws spaced max. 16 in. O.C. Middle layer installed with end joints staggered a min. 32 in. from base layer. Middle layer tapered joints staggered a min. 12 in. from base layer tapered joints. Boards secured to the joists and joist track with 1-5/8 in. long Type S-12 steel screws spaced max. 16 in. O.C. Face layer installed with end joints staggered a min. 24 in. from middle layer. Face layer tapered joints staggered a min. 12 in. from middle layer tapered joints. Boards secured to the joists and joist track with 2-1/4 in. long Type S-12 steel screws spaced max. 12 in. O.C. Face layer and joints centered between joists, attached to the middle layer boards with 1-1/2 in. long Type G steel screws spaced 8 in. OC and located 1-1/2 in. from the end joint.

UNITED STATES GYPSUM CO — Type ULIX

SYSTEM B - For 2 Hr, Rating

4. Gypsum Board* — Three layers of nom. 5/8 in. thick, 48 in. wide, gypsum board installed with long dimension perpendicular to the steel joists. Joints need not be staggered in individual layers. Base layer secured to joists and joist track with 1-1/4 in. long Type S-12 steel screws spaced max. 16 in. O.C. Middle layer installed with end joints staggered a min. 32 in. from base layer. Middle layer tapered joints staggered a min. 12 in. from base layer tapered joints. Boards secured to the joists and joist track with 2-1/4 in. long Type S-12 steel screws spaced max. 12 in. O.C. Face layer and joints centered between joists, attached to the middle layer boards with 1-1/2 in. long Type G steel screws spaced 8 in. OC and located 1-1/2 in. from the end joint.

UNITED STATES GYPSUM CO — Type ULIX

5. Gypsum Board* — (Required the 2 hour rating, not required for the 1 hour rating) - Two layers of nom. 5/8 in. thick, 24 in. wide by 48 in. long. Gypsum board panels are loosely laid perpendicular to the top side of the joist joist flanges. Base layer laid with narrow (2h) end joints centered over joists. Short end joints in adjacent rows are not staggered. Face layer laid with narrow (2h) end joints centered over joists with end joints in adjacent rows not being staggered. Narrow end joints between layers are staggered 16 in. with long end joints staggered 8 in. between layers.

UNITED STATES GYPSUM CO — Type ULIX

6. Joint Tape and Compound — Not Shown — (Optional, Not Required on Joists or Screw Heads) — Vinyl, dry or premixed joint compound, applied in two coats to

http://productspec.com/content/ulqtr/96/BXUV/I506

3/4

3/4/2019

R506 - BXUV/R506 - UL Product Spec

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

Last Updated on 2019-04-11

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- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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D
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A

FIRE RESISTANT RATINGS - ANSI / UL 263
DESIGN No. U415

UL Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States

Design Criteria and Allowable Variance

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

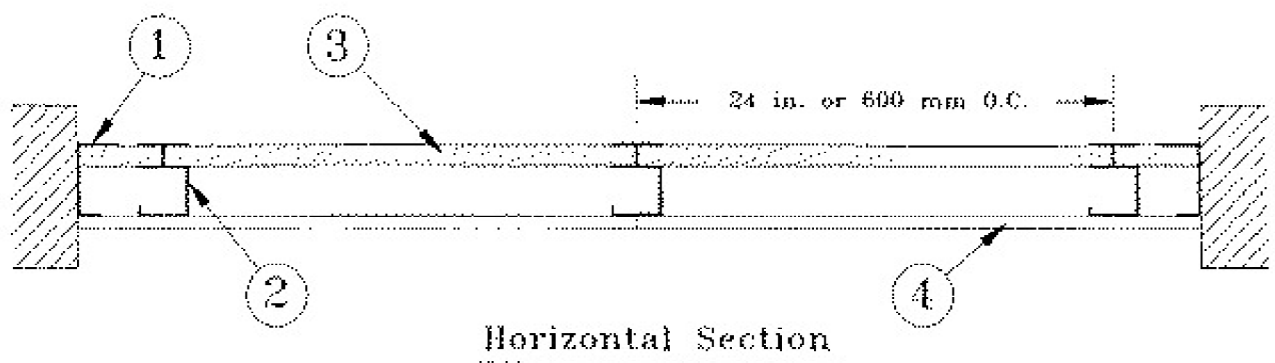
Design Criteria and Allowable Variance

Design No. U415

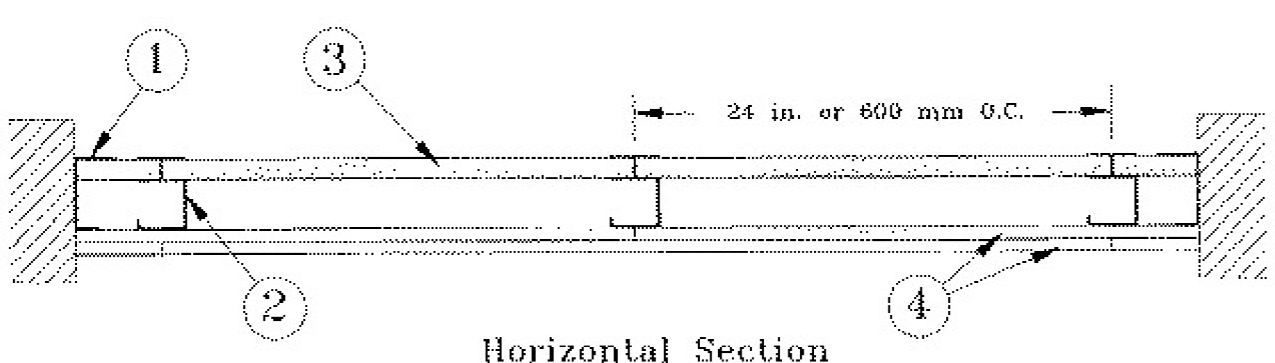
February 14, 2022

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

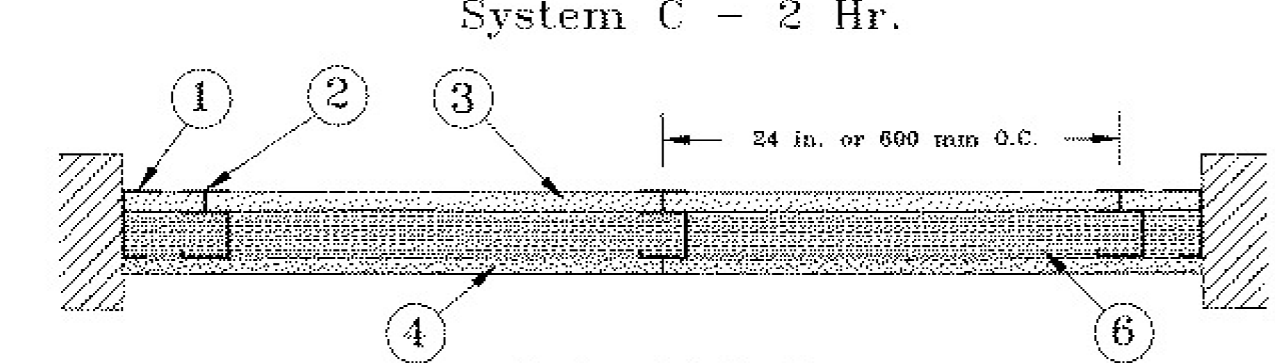
System A — 1 Hr.



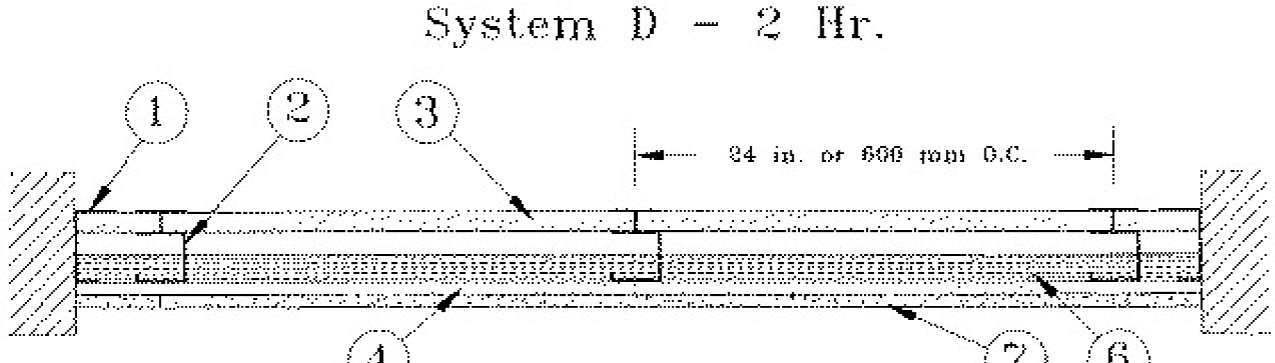
System B — 2 Hr.



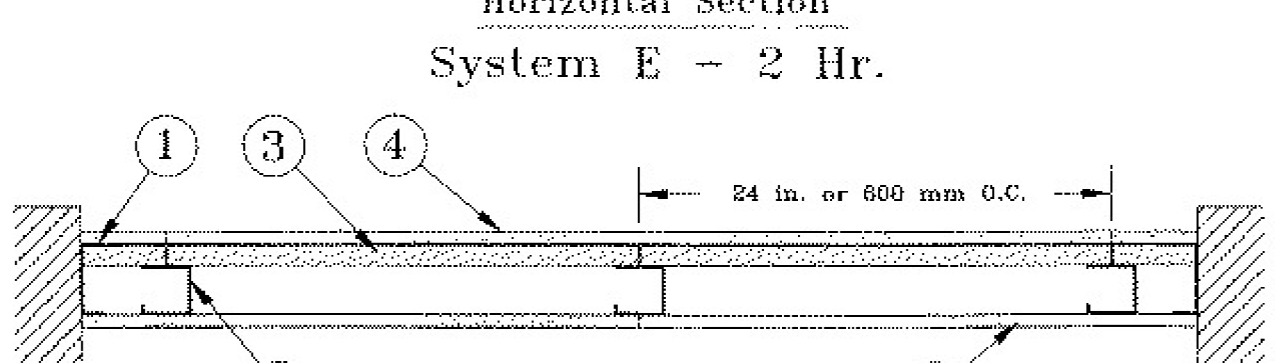
System C — 2 Hr.



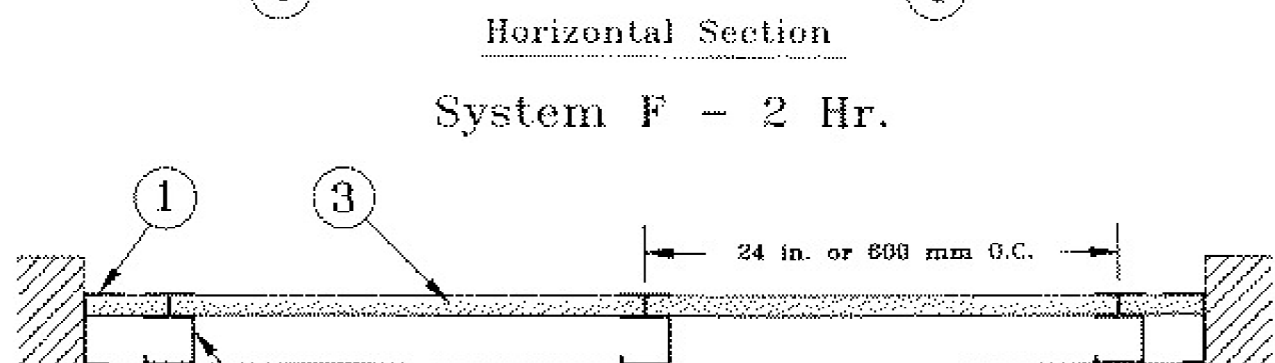
System D — 2 Hr.



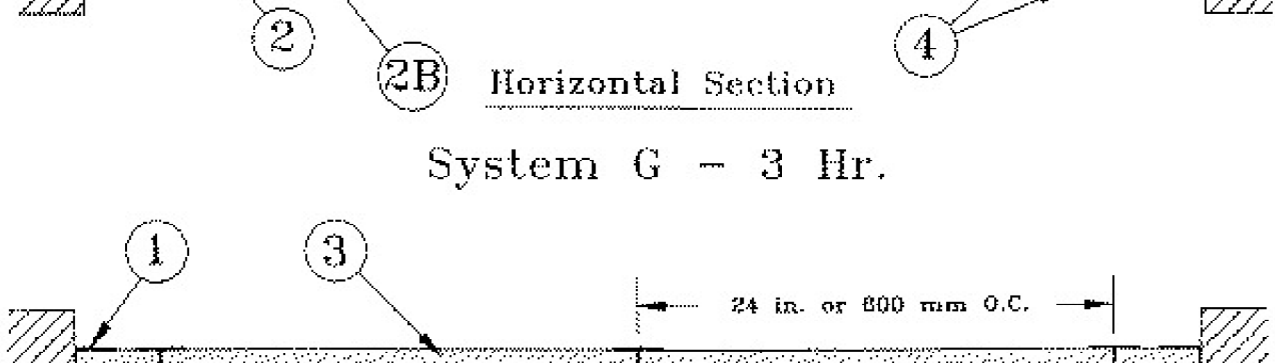
System E — 2 Hr.



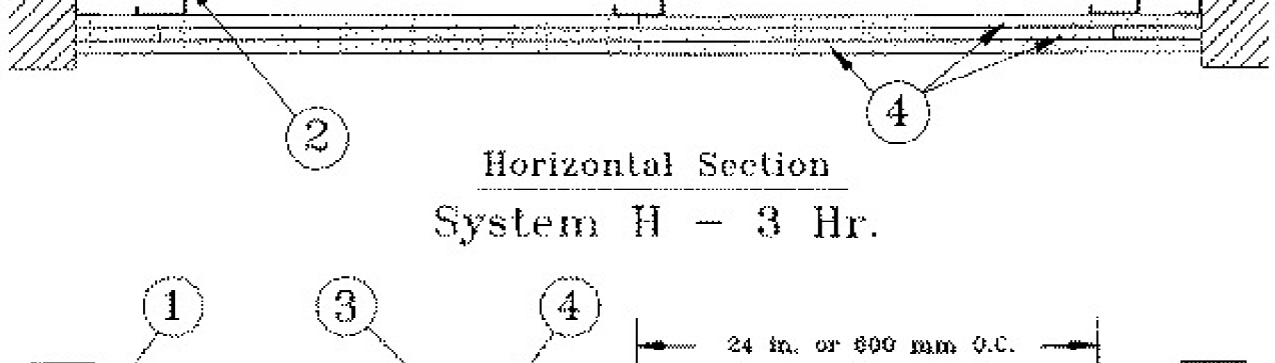
System F — 2 Hr.



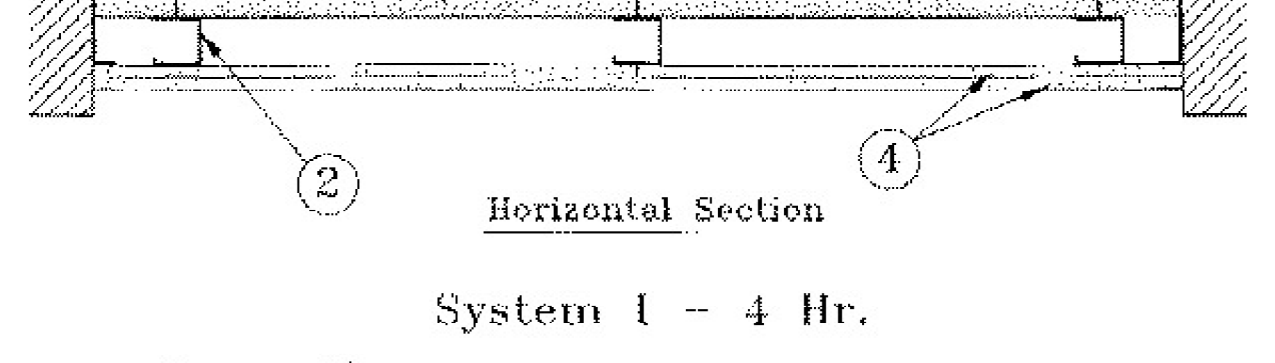
System G — 3 Hr.



System H — 3 Hr.



System I — 4 Hr.



1. Floor, Side and Ceiling Runners — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned

with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs** — "C" - H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 are used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in., or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs** — (Not Shown) — "E" - shaped studs installed back to back in place of "C" - H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels** — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C" - H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type 5 or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. **Furring Channels** — For use with System 1. "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type 5 pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members*** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSC-1 clip for use with 2-9/16 in. wide furring channels. RSC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L.L.C. — Types RSC-1, RSC-1 (2.75)

2E. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC, and secured to studs with 2 in. coarse drywall screw in 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDDO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members*** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

PLUTEQ INC — Type GENIECLIP

2G. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGPOL AMERICA — Type SemaClip

2H. **Steel Framing Members*** — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.

KEENE BUILDING PRODUCTS CO INC — Type RC - Assurance Clip

2I. **Steel Framing Members*** — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIERICH BUILDING SYSTEMS — Type ClarkDierich Sound Clip

3. **Gypsum Board*** — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C" - H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type 5 steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall.

Horizontal joints need not be backed by steel framing. In System 1, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE CV — Type SLX

4. **Gypsum Board*** —

System A — 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type 5 steel screws spaced 12 in. OC when installed vertically or 8 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX, USGX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE CV — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type 5 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type 5 steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE CV — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type 5 steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE CV — Types IP-X3 or ULTRACODE

System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type 5 steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 in. or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE CV — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type 5 steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE CV — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to studs with 1 in. long Type 5 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type 5 steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type 5 steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE CV — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type 5 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type 5 steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type 5 steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR, ULX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR, ULX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE CV — 1/2 in. Type C, IP-X2, IPC-AR, WRC

System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type 5 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type 5 steel screws spaced 16 in. OC when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE CV — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type 5 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type 5 steel screws spaced 16 in. OC when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE CV — Types IP-X3 or ULTRACODE

4A. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).

RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints

centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or #6 by 1-1/4 in. long bugle head fine drillers) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type 5-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. **Gypsum Board*** — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type 5-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. **Joint Tape and Compound** — (Not Shown)

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. **Batts and Blankets** —

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.