

Freedom of Layout

Because the machine is installed within the hoistway,
there are far fewer restrictions on building design.

Architects and interior designers
have more design freedom than ever before.

More architectural freedom

Architects, builders, and even interior designers will appreciate the new design freedom that comes with the machine-room-less system. A machine room is no longer needed, as all machineries successfully fit into the hoistway, except the control panel, which can be placed within a 98-foot, 5-inch radius of the traction machine. Also, the load stress of our conventional elevator with a machine room applies on the building structure, whereas the guide rails of DIAMOND TRAC support as much as 75 percent of the stress, for building friendliness.

Machine room space savings*

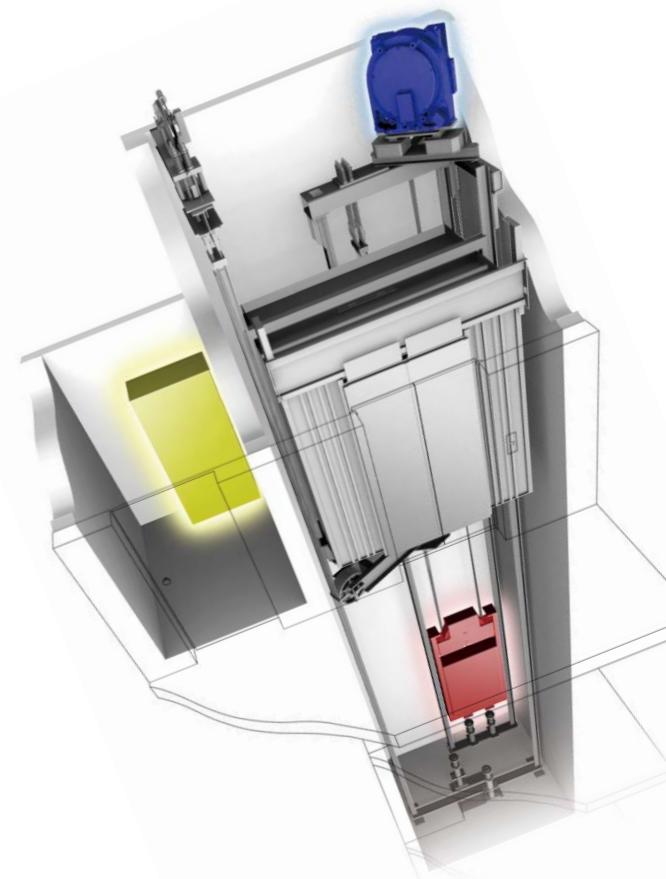
Miniaturization of the hoisting machine using a permanent magnet gearless motor allows the machine to be placed inside the elevator hoistway. The result is a dramatic reduction in machine room size whereby only space for the controller needs to be considered. Furthermore, the controller room location is now more flexible, resulting in building design freedom.

*This product complies with both ASME A17.1 and other applicable codes.



Miniaturized and optimally configured

Mitsubishi Electric has succeeded in miniaturizing key elevator equipment. The gearless traction machine with PM motor is installed within the hoistway. This arrangement frees up space normally required for separate machine rooms or penthouses. Equipment is configured for easy maintenance from car top, and the entire compact system is optimally organized for performance and service.



BASIC SPECIFICATIONS

DIAMOND TRAC

For passenger

CAPACITY: 2000lbs ~ 4000lbs

Capacity, Rated Speed, Door Type, Car Inside & Hoistway Dimensions*1

<Rated Speed 200FPM to 500FPM>

Opening	Rated speed (fpm)	Capacity (lbs)	Door type*2	CWT Location	Car inside clear dimensions		Entrance width JJ (ft./in.)	Minimum hoistway dimensions*3					
					Width (ft./in.)	Depth (ft./in.)		AH: Width (ft./in.)*4	BH: Depth (ft./in.)*7				
Front	200	2000	SS	Rear	5'-8"	4'-3 3/4"	3'-0"	7'-6"	6'-11"				
	350				6'-8"	3'-6"	8'-6"	7'-4"	8'-0"				
	200	2500	SS or CO					8'-0"	7'-11 1/4"				
	350	3000						9'-7"	9'-7"				
	400	3500	Side			5'-8 3/16"		7'-11 1/4"					
Front & Rear	500												
Front	200	4000	CO	Rear	7'-8"	5'-4 3/4"	4'-0"	9'-7"	8'-0"				

<Rated Speed 200FPM and 350FPM>

Opening	Capacity (lbs)	Minimum hoistway dimensions*3					
		Rated speed					
		200fpm		350fpm		PD (ft./in.)*5,7	OH*6 (ft./in.)
Front	2000	PD (ft./in.)*5,7	OH*6 (ft./in.)	PD (ft./in.)*5,7	OH*6 (ft./in.)		
		5'-5 1/2"	14'-3"	15'-8 11/16"	5'-11 1/2"	14'-6"	15'-11 11/16"
	2500	14'-3"	15'-8 11/16"	5'-11 1/2"	14'-6"	15'-11 11/16"	15'-4"
	3000						
Front & Rear	3500	14'-3"	15'-8 11/16"	5'-11 1/2"	14'-6"	15'-11 11/16"	17'-4"
Front	4000						

Opening	Capacity (lbs)	Minimum hoistway dimensions*3					
		Rated speed					
		400fpm		500fpm		PD (ft./in.)*5,7	OH*6 (ft./in.)
Front	2500	PD (ft./in.)*5,7	OH*6 (ft./in.)	PD (ft./in.)*5,7	OH*6 (ft./in.)		
		6'-3"	15'-3"	16'-8 11/16"	7'-5"		
					16'-1"	17'-6 11/16"	
Front & Rear	3500	6'-5"	15'-3"	16'-8 11/16"	7'-6 1/2"		

Notes

*1. The contents of these tables are standard specifications. They are based on ASME A17.1 and applicable to both seismic and non-seismic zones.

Please consult your local sales office for other specifications. (Email: EEDSALES@meus.me.com)

*2. SS : Single-Slide door, CO: Center-Open doors

*3. Hoistway dimensions (AH, BH, PD, OH) are for standard specifications.

*4. The AH dimensions indicate for one car. For AH dimensions of 2 and 3 car, please refer to left table. AU dimension in 2 and 3 car layout is same as AH of 1 car.

These are values after waterproofing and do not include plumb tolerance.

*5. Pit depth in this drawing is obtained when floor recess is 3/4". When floor recess is greater than 3/4", extend pit depth as well. Max. floor recess is 1 1/4".

*6. The minimum OH dimensions are obtained on condition that:

A. Canopy height = 8'-0"

B. OH dimensions does not include the hoisting beams.

C. Please consult your structural engineer for hoisting beam size, but for please consider allowing 8" ~10" (6" ~ 8" beam + 2" gap).

*7. If occupied space below hoistway is provided, required hoistway dimensions will be changed. Please consult your local sales office for details.

Specifications

Rated Speed	200fpm	350fpm	400fpm	500fpm
Maximum number of stops	10		24	
Maximum travel (ft.)	2000 (lbs)	75'-0"	98'-5"	-
	2500~3500 (lbs)			262'-5"
	4000 (lbs)	196'-10"		-
Minimum floor height (ft.)	8'-11" *8			

For travel greater than shown above, please consult your local sales office or EEDSALES@meus.me.com.

AH dimension for 2 and 3 Car

Opening	Capacity (lbs)	AH dimension (ft./in.)	
		2 Car	3 Car
Front	2000	15'-4"	23'-2"
	2500	17'-4"	26'-2"
	3000		
	3500	19'-6"	29'-5"
Front & Rear	4000		
Front	4000		

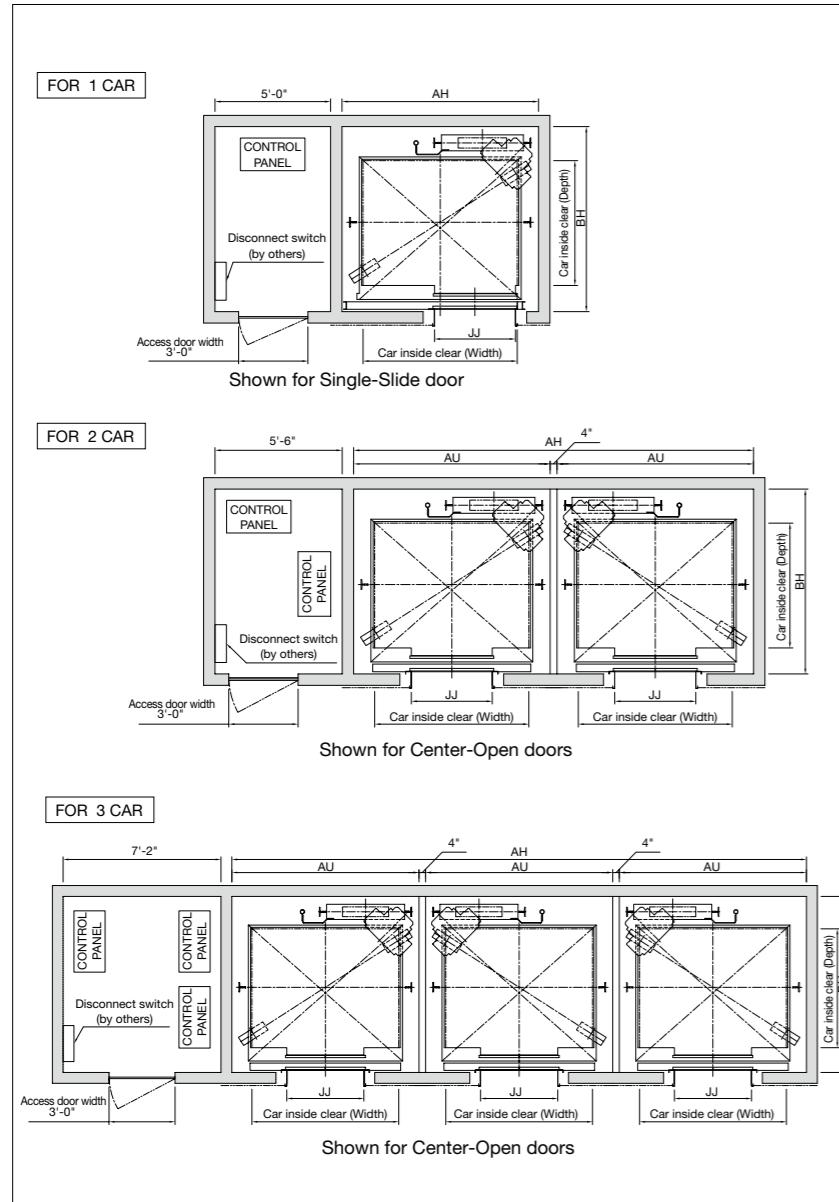
Power Feeder Data for One Car*11

Rated speed (fpm)	Capacity (lbs)	Traction motor (HP)	Current at 480V*9		Power supply capacity (kVA)	Heat emission (BTU/hr)
			FLU (A)	FLAcc (A)		
200	2000	7.5	12	21	7	3070
	2500	9.5	15	26	8	3750
	3000	11.9	18	30	9	3580
	3500	13.3	20	35	10	3750
	4000	16.1	23	40	12	4270
350	2000	13	20	35	10	3750
	2500	17.4	25	43	13	4100
	3000	20.1	30	52	15	4440
	3500	24.1	34	60	17	4950
	4000	26.8	39	69	19	5970
400	2500	20.1	28	49	14	2880
	3000	22.8	34	59	17	3280
	3500	26.8	39	69	19	3680
	4000	31.2	42	73	21	3890
500	2500	24.1	35	61	17	3380
	3000	28.2	42	73	21	3890

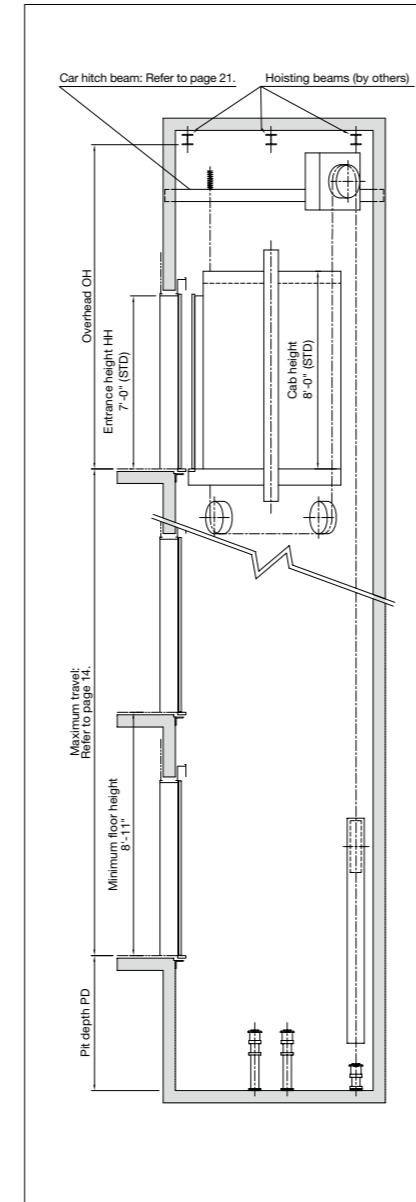
For passenger **CAPACITY: 2000lbs ~ 4000lbs**

Front Opening

Hoistway Plan (example)



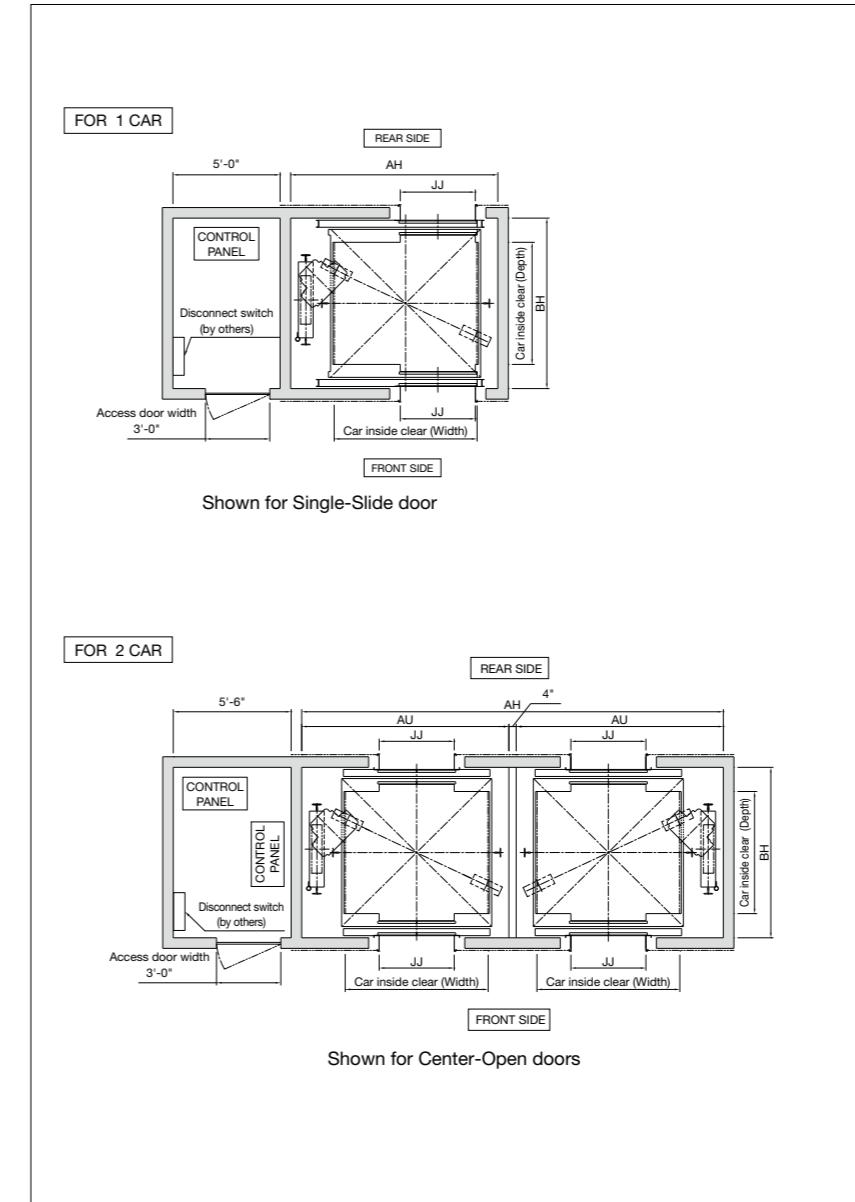
Hoistway Section



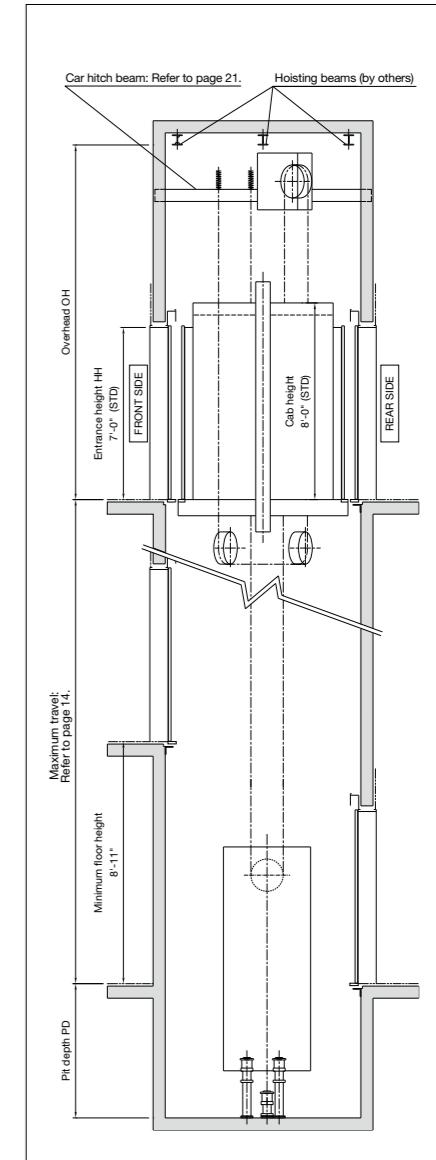
For passenger **CAPACITY: 3500lbs**

Front & Rear Opening

Hoistway Plan



Hoistway Section



BASIC SPECIFICATIONS

DIAMOND TRAC

For service **CAPACITY: 4000lbs ~ 5000lbs**

Capacity, Rated Speed, Door Type, Car Inside & Hoistway Dimensions^{*1}

<Rated Speed 200FPM and 350FPM>

Configuration	Opening	Capacity (lbs)	Door type ^{*2}	CWT Location	Car inside clear dimensions		Entrance width JJ (ft./in.)	Minimum hoistway dimensions ^{*3}	
					Width (ft./in.)	Depth (ft./in.)		AH: Width (ft./in.) ^{*4,7}	BH: Depth (ft./in.) ^{*7}
Service	Front	4000	2S	Side	5'-8"	7'-3 1/4"	4'-0"	8'-7 1/2"	9'-1"
		4500			5'-8"	7'-11 1/4"		9'-8"	10'-3"
		5000			5'-10"	8'-4 1/4"	4'-6"	8'-9 1/2"	10'-1"
	Front & Rear	4500			5'-8"	8'-0"	4'-0"	8'-7 1/2"	10'-8 3/4"
		5000			5'-10"	8'-7"		11'-3 3/4"	
					5'-10"	8'-5"	4'-6"	8'-9 1/2"	11'-1 3/4"

<Rated Speed 200FPM and 350FPM>

Configuration	Opening	Capacity (lbs)	Minimum hoistway dimensions ^{*3}				
			Rated speed				
			200fpm		350fpm		
			PD (ft./in.) ^{*5,7}	OH ^{*6} (ft./in.)	PD (ft./in.) ^{*5,7}	OH ^{*6} (ft./in.)	
Service	Front	4000	5'-8"	15'-1"	6'-1"	15'-5"	16'-10 11/16"
		4500	5'-8"		6'-1"		
		5000	6'-1"		6'-2" ^{*8}		
	Front & Rear	4500	5'-8"	15'-2"	6'-1"	15'-10"	17'-3 11/16"
		5000	6'-1"		6'-1"		

Notes

- *1. The contents of these tables are standard specifications. They are based on ASME A17.1 and applicable to both seismic and non-seismic zones. Please consult your local sales office for other specifications. (Email: EEDSALES@meus.me.com)
- *2. 2S : 2-Speed side-open doors
- *3. Hoistway dimensions (AH, BH, PD, OH) are for standard specifications.
- *4. The AH dimensions indicate for one car. For AH dimensions of 2 and 3 car, please refer to left table.
- AU dimension in 2 and 3 car layout is same as AH of 1 car. These are values after waterproofing and do not include plumb tolerance.
- *5. Pit depth in this drawing is obtained when floor recess is 3/4". When floor recess is greater than 3/4", extend pit depth as well. Max. floor recess is 1 1/4".
- *6. The minimum OH dimensions are obtained on condition that:
 - A. Canopy height = 8'-0"
 - B. OH dimensions does not include the hoisting beams.
 - C. Please consult your structural engineer for hoisting beam size, but for please consider allowing 8" ~10" (6" ~ 8" beam + 2" gap).
- *7. If occupied space below hoistway is provided, required hoistway dimensions will be changed. Please consult your local sales office for details.
- *8. If the travel is below 98'-5", some reduction of pit depth is available. Please consult your local sales office for details.

Specifications

Rated speed	200fpm	350fpm
Maximum number of stops	24	
Maximum travel (ft.)	196'-10"	
Minimum floor height (ft.)	8'-11" ^{*9}	

For travel greater than shown above, please consult your local sales office or EEDSALES@meus.me.com.

AH dimension for 2 and 3 Car

Configuration	Opening	Capacity (lbs)	Entrance width JJ (ft./in.)	AH dimension (ft./in.)	
				2 Car	3 Car
Service	Front / Front & Rear	4000	4'-0"	17'-7"	26'-6 1/2"
		4500			
		5000		4'-6"	17'-11" ^{27'-0 1/2"}

Power Feeder Data for One Car^{*12}

Rated speed (fpm)	Capacity (lbs)	Traction motor (HP)	Current at 480V ^{*10}		Power supply capacity (kVA)	Heat emission (BTU/hr)	
			FLU (A)	FLAcc (A)		Hoistway ^{*11}	Control panel
200	4000	16.1	23	40	12	4270	4780
	4500	17.4	26	45	13	4610	5460
	5000	18.8	28	49	14	4950	5970
350	4000	26.8	39	69	19	5970	8360
	4500	29.5	43	77	22	6480	9220
	5000	33.5	48	85	24	7000	10240

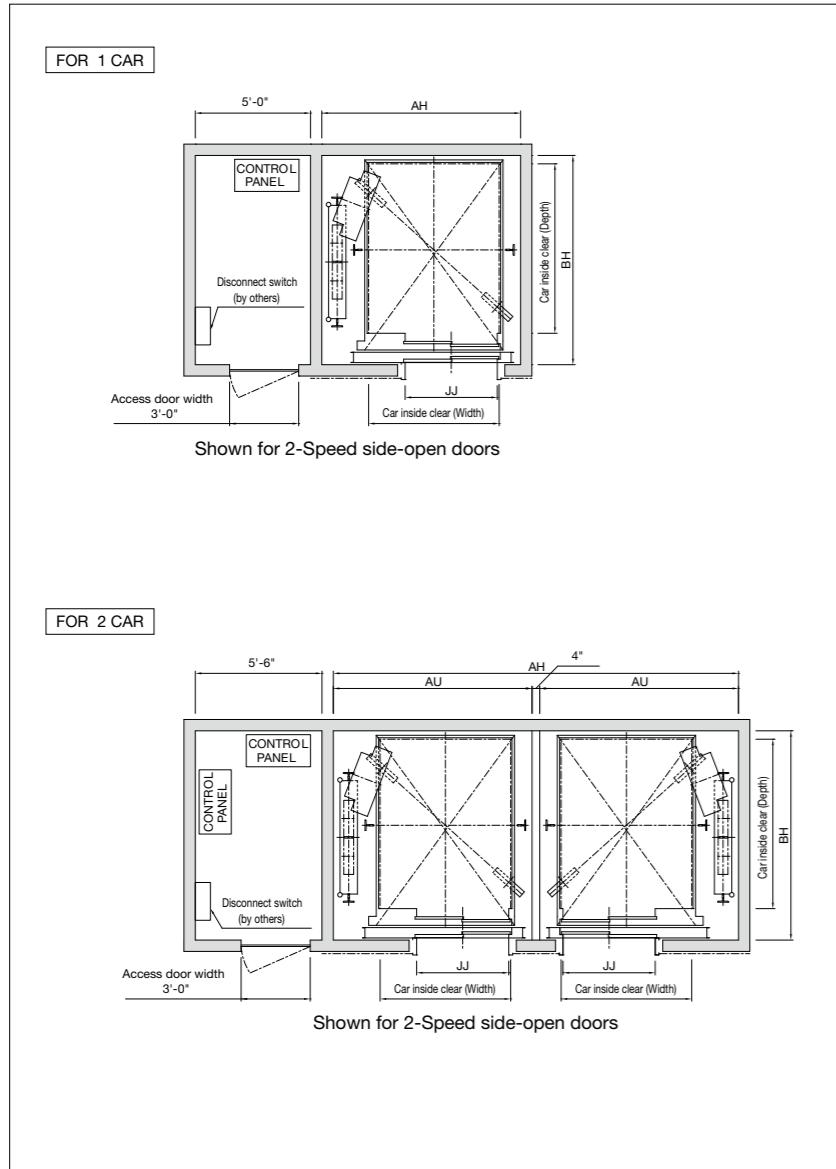
Notes

- *9. Some of specifications require more than the value 8'-11" as a minimum height. Please consult your local sales office if floor height is less than 8'-11".
- *10. If power supply voltage is other than 480V, FLU and FLAcc current are obtained by the following formulas. $FLU, FLAcc \text{ current (A) at } E = (\text{Current at } 480V) \times (480/E) \quad (E: \text{Power supply voltage (V)})$
- *11. Heat emitted from car lighting is included.
- *12. Start / hour (time) is as follows.
 - Rated speed 200fpm: 120 times
 - Rated speed 350fpm: 150 times

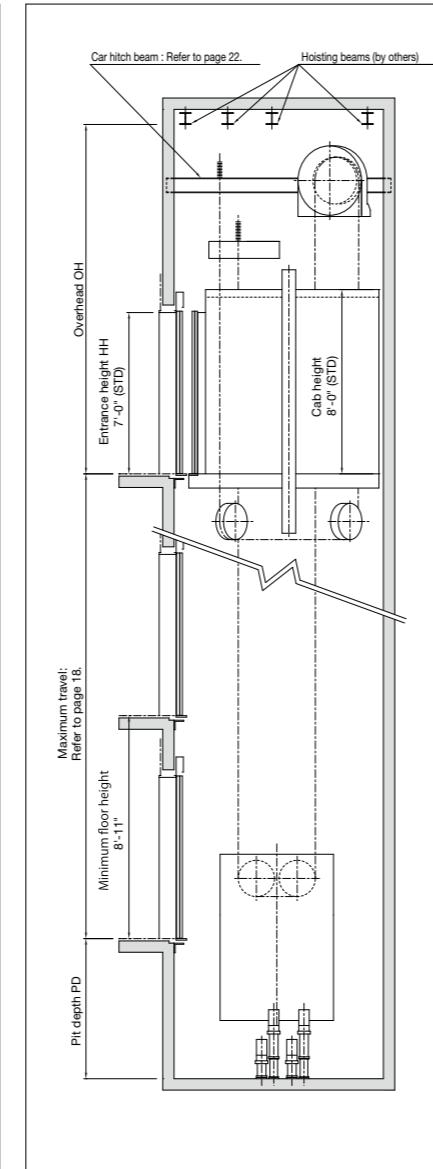
For service **CAPACITY: 4000lbs ~ 5000lbs**

Front Opening

Hoistway Plan (example)



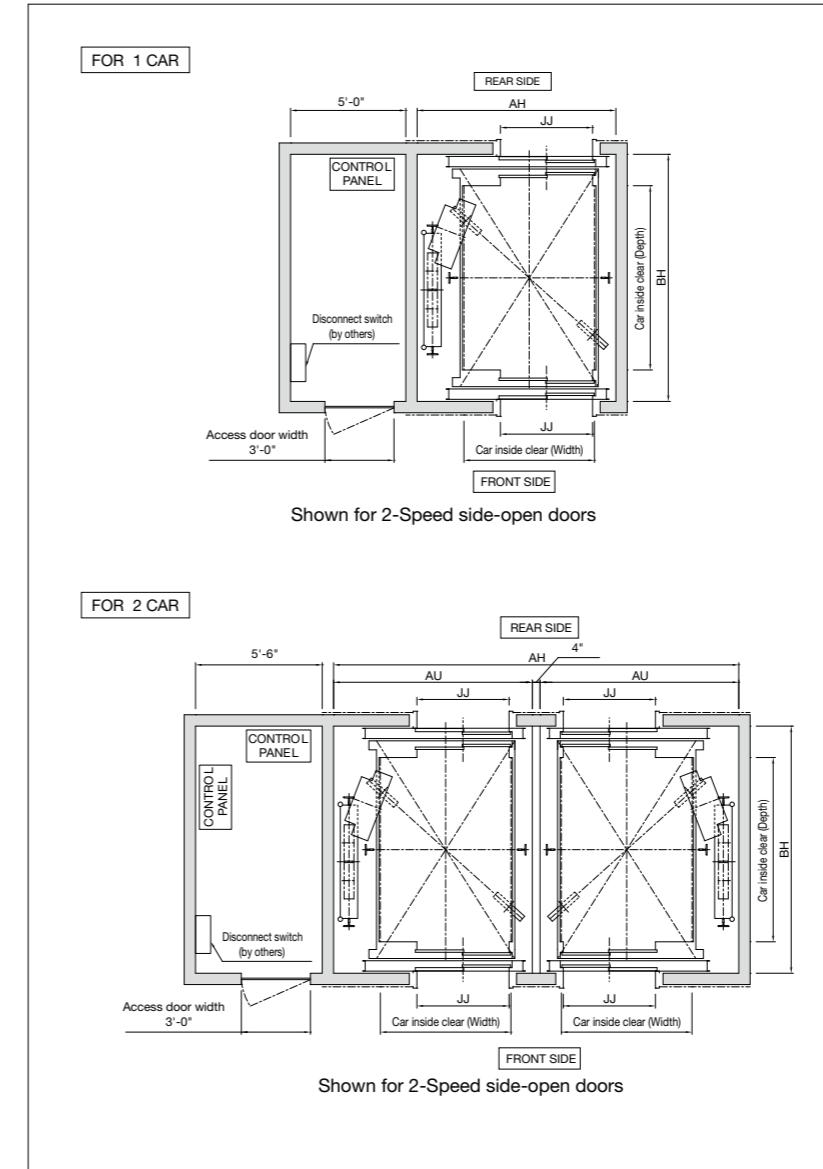
Hoistway Section



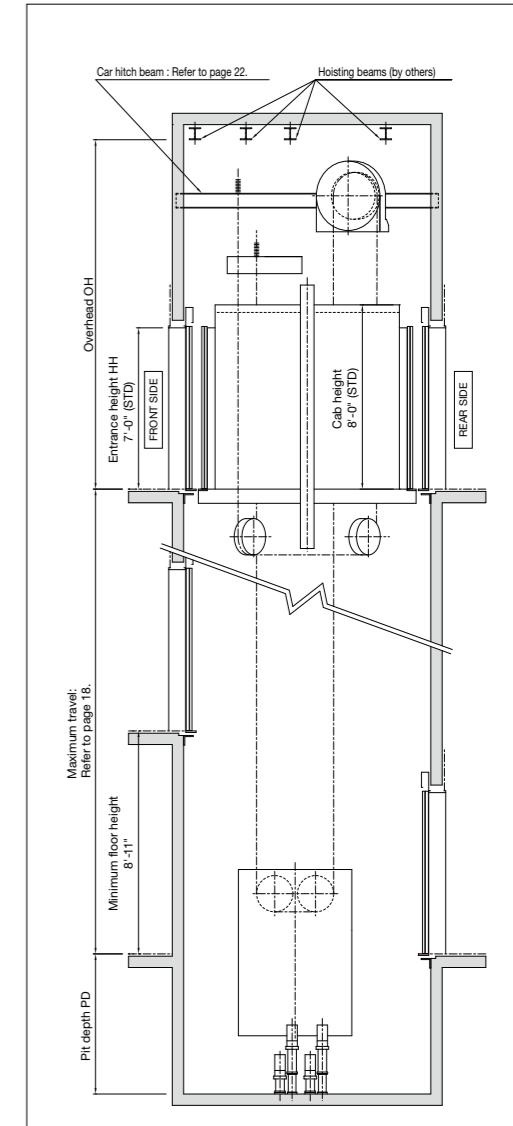
For service **CAPACITY: 4500lbs ~ 5000lbs**

Front & Rear Opening

Hoistway Plan (example)



Hoistway Section



For passenger

CAPACITY: 2000lbs ~ 4000lbs

For service

CAPACITY: 4000lbs ~ 5000lbs

Profile

Design

Functions

Spec.

Info.

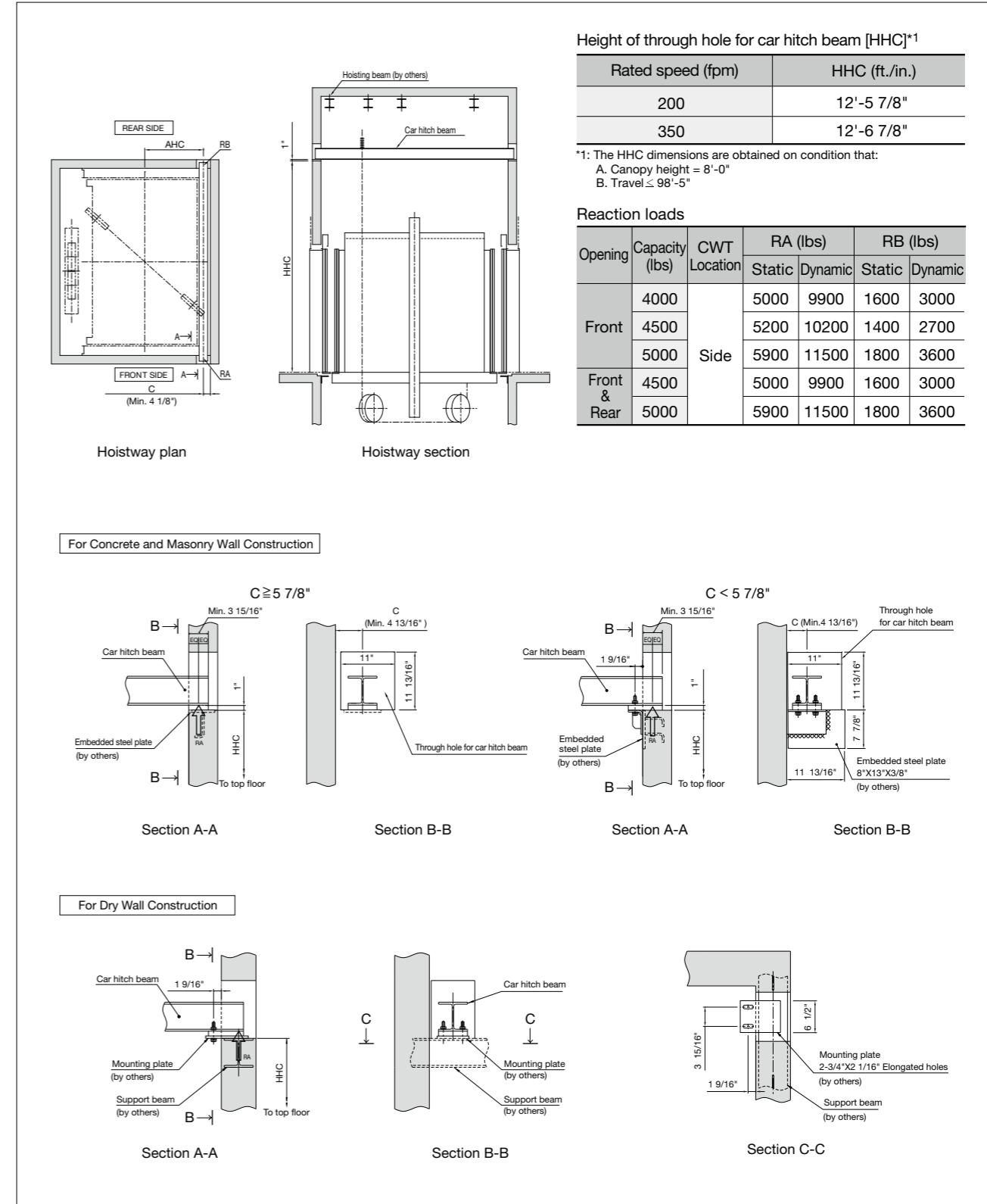
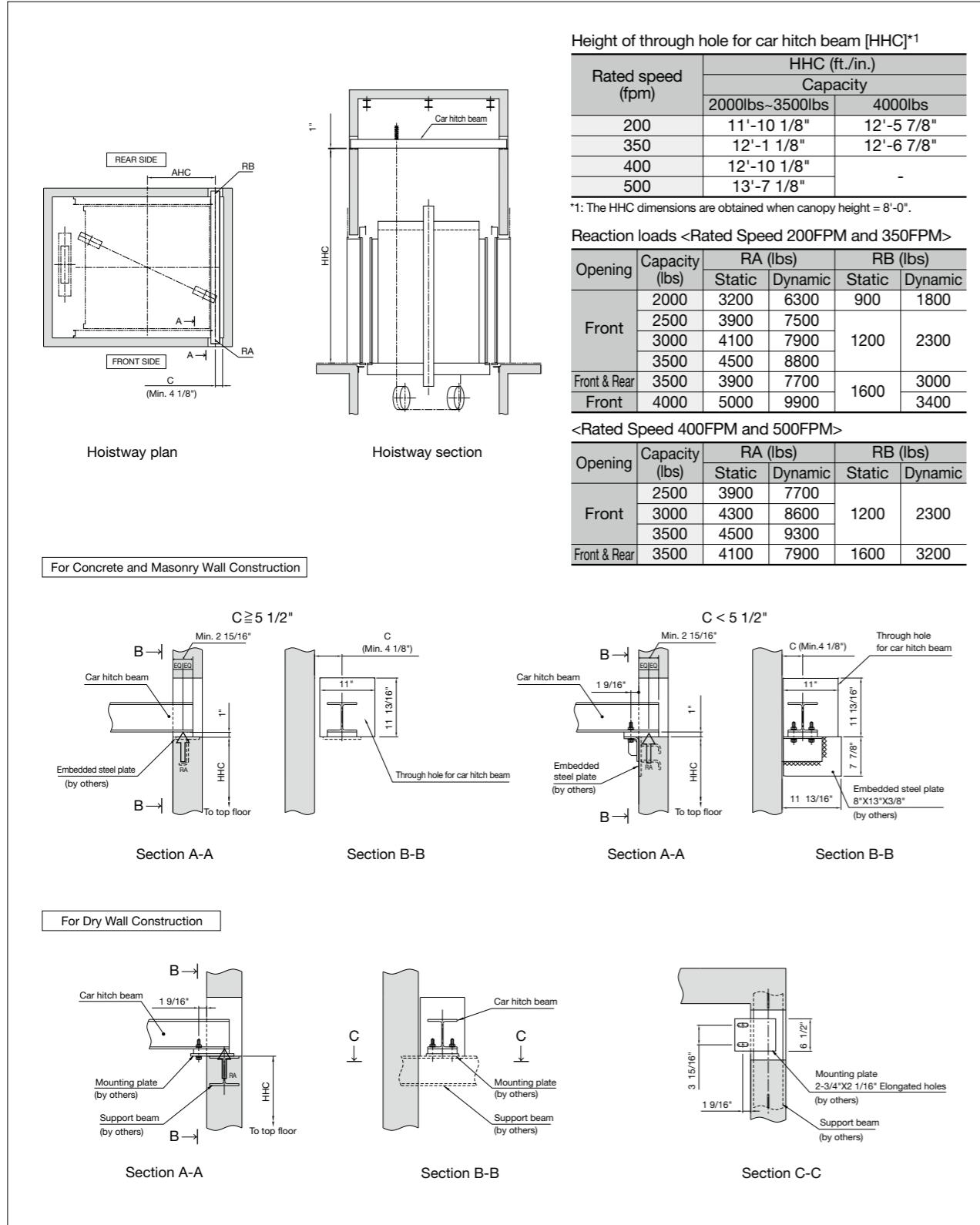
Profile

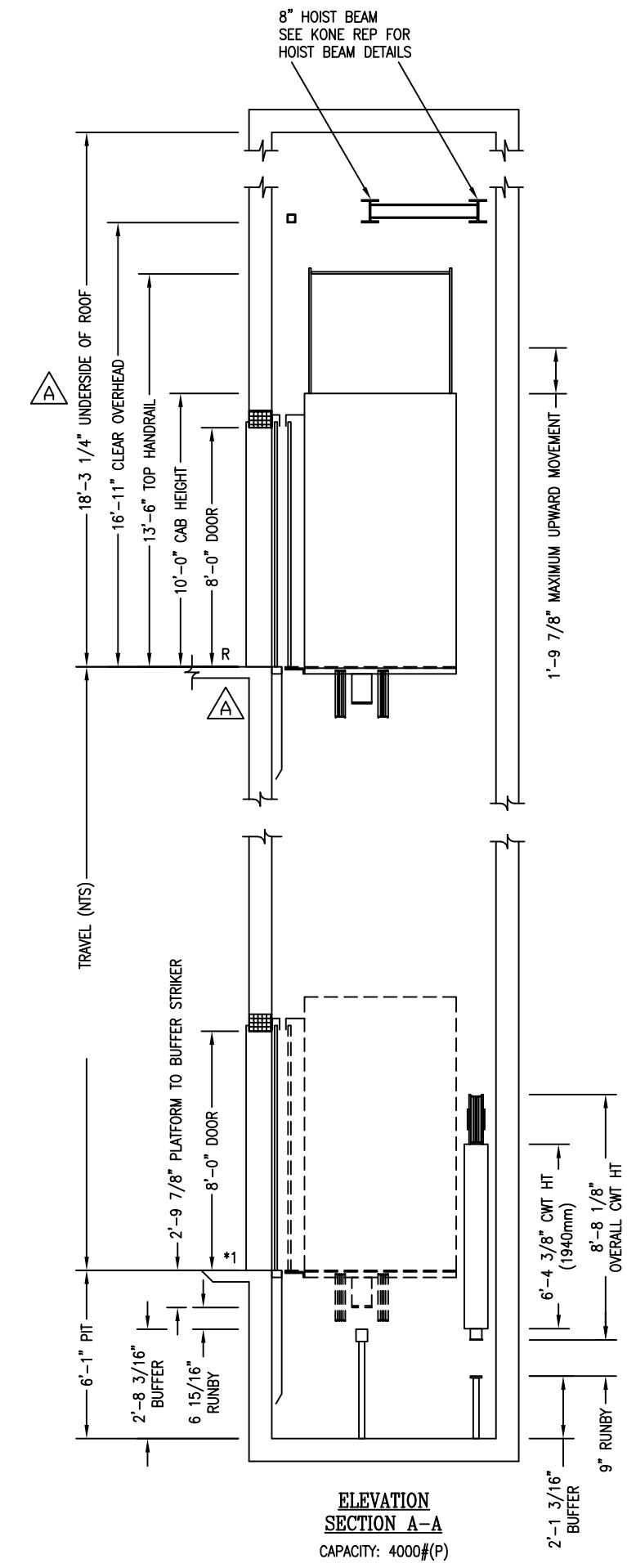
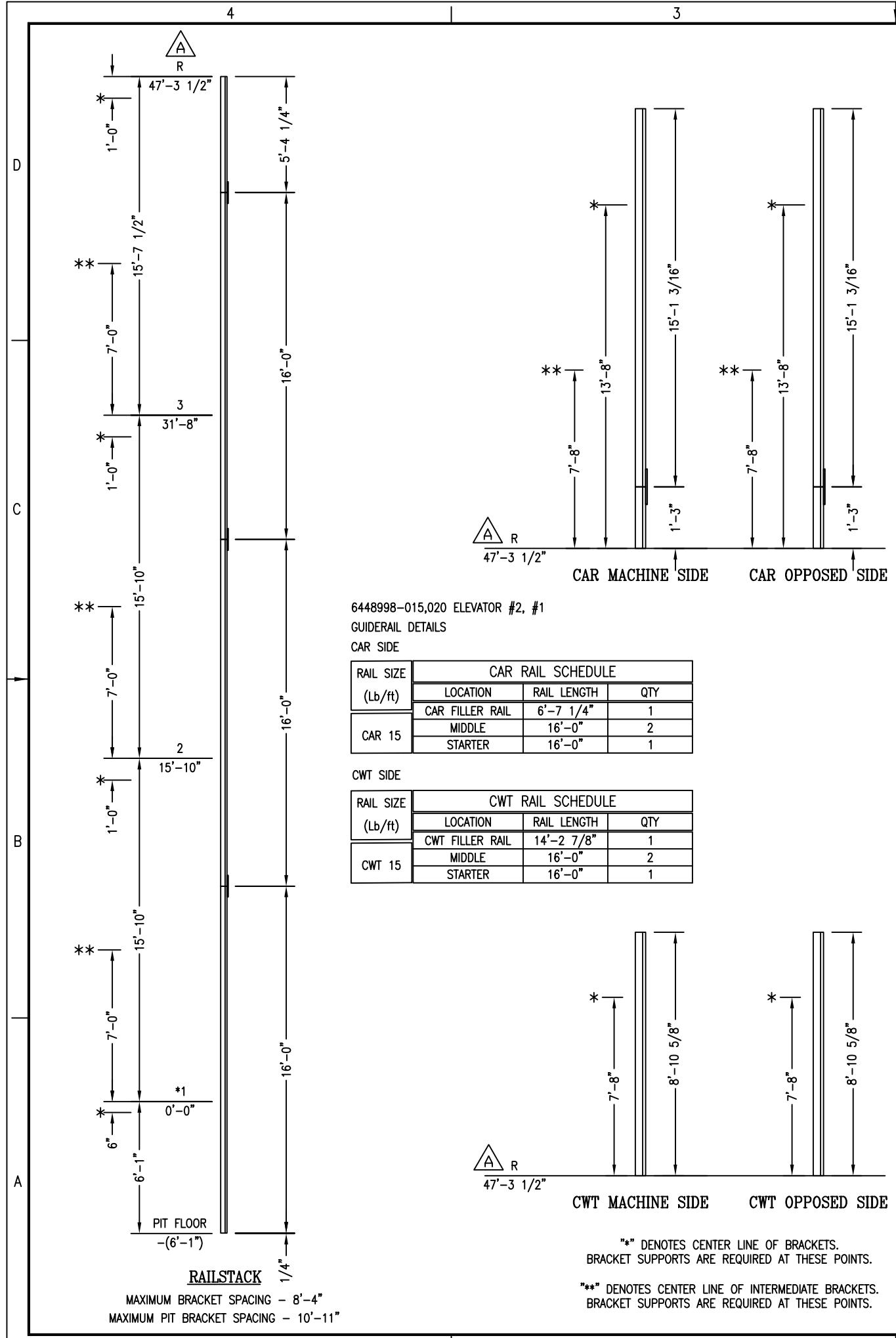
Design

Functions

Spec.

Info.





FLOOR NUM	FRONT	REAR	DISTANCE
1	*1		15'-10"
2	2		15'-10"
3	3		15'-7 1/2"
4	R		

B

NO CHANGES MADE

A

FLOOR MARK UPDATED
UNDERSIDE OF ROOF UPDATED

REFER SHEET 4 FOR BRACKET TABLE DETAILS

ELEVATIONS OR FLOOR MARKINGS OF THE FOLLOWING
MUST BE NOTED WHEN APPLICABLE.

DESIGNATION	FLOOR MARKING
MAIN ELEVATION LOBBY	*1
FIRE SERVICE RETURN	*1
ALTERNATE FIRE SERVICE RETURN	2
EMERGENCY POWER RETURN	*1

APPROVED BY

APPROVAL SPACE

PROJECT:
ELEVATOR #2, #1

LOCATION:

ENG/ARCH:

CONTRACTOR:
DEL AMO CONSTRUCTION

ITEM NO.	UNIT NO.	EQUIPMENT NO.		
020	6448998	43281653		
015	6448998	43281652		
DATE	NO	BY	CK	DESCRIPTION
03/23/18	B	KAR	PRN	REVISED PRELIMINARY
03/07/18	A	SRS	MER	REVISED PRELIMINARY
12/26/17	-	SRS	PRN	PRELIMINARY

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K O N E

GENERATED ON: 12/26/17	BY: SRS	REV
UNITS: INCHES	EXB 65.7	B
DRAWING 6448998-010-M	DESCRIPTION RAILSTACK	SHEET 3

D

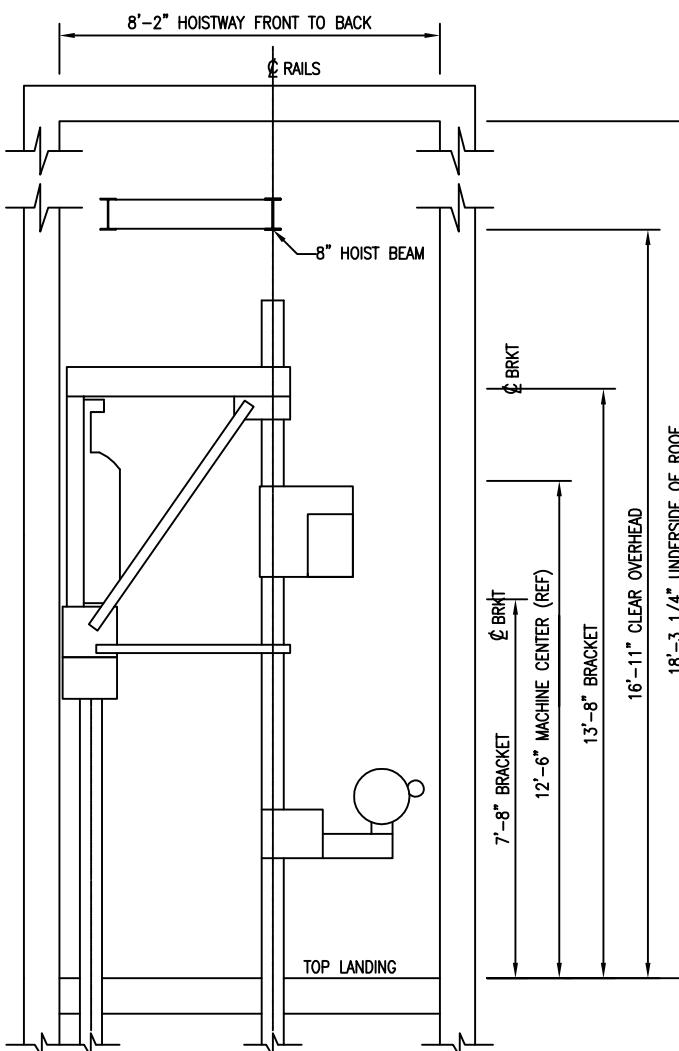
COMMON REMOTE CONTROL ROOM LOCATED
(APPROX.) 31'-5 1/2" BELOW TOP LANDING
(FLOOR MARK 2)

15'-10"

C

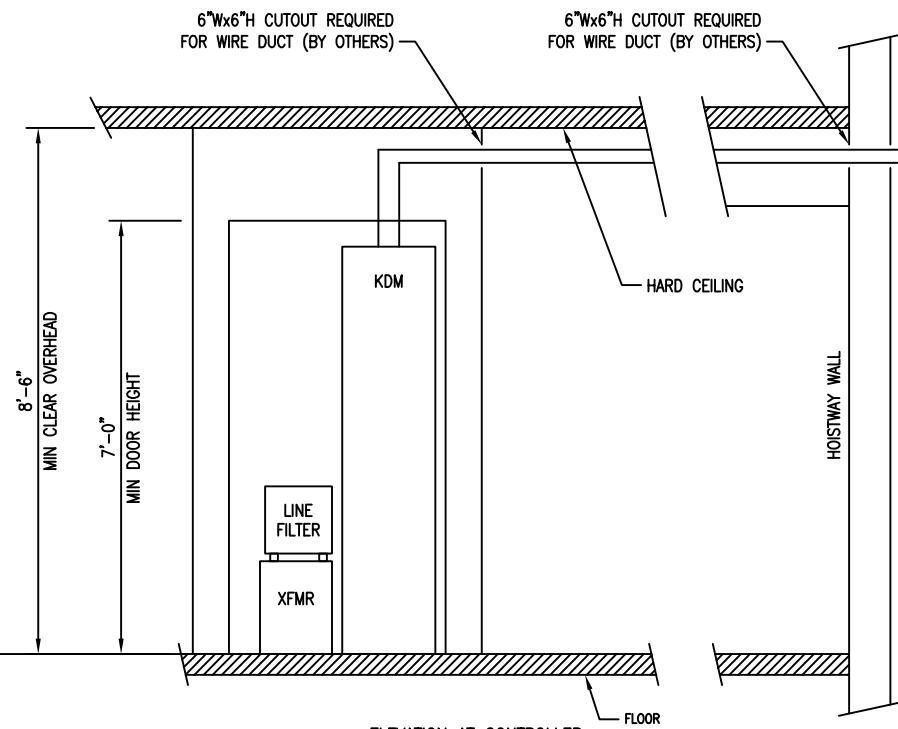
6448998-015 ELEVATOR #2 IS SHOWN
6448998-020, ELEVATOR #1 IS OPPOSITE

B



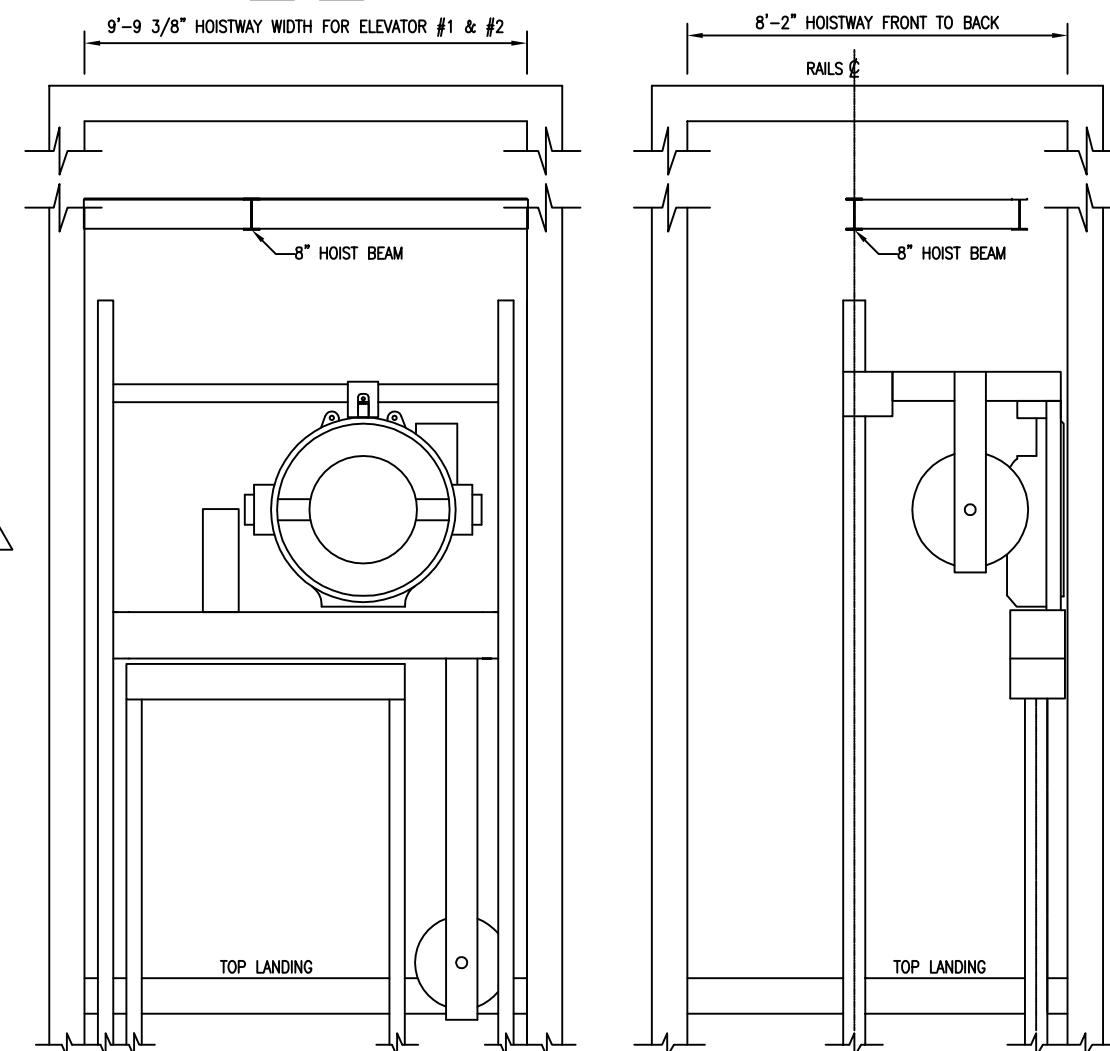
ELEVATION VIEW FROM HOISTWAY
LOOKING FROM OUTSIDE
(LEFT SIDE VIEW)

D



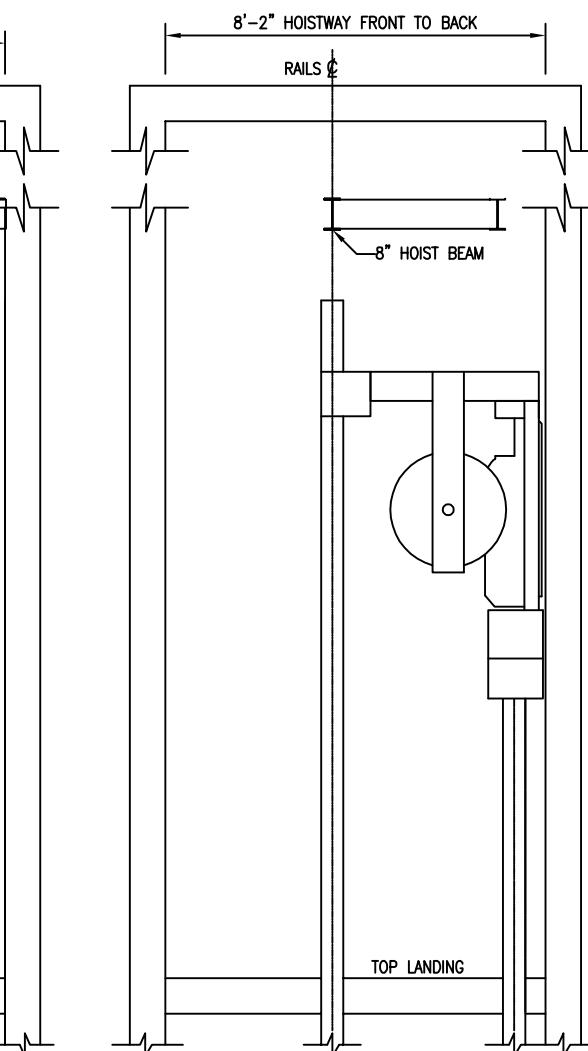
1. HOISTWAY WIDTH UPDATED

A



ELEVATION VIEW FROM HOISTWAY
LOOKING @ MACHINE SIDE

C



ELEVATION VIEW FROM HOISTWAY
LOOKING FROM OUTSIDE
(RIGHT SIDE VIEW)

1. UNDERSIDE OF ROOF UPDATED
2. HOISTWAY DIMENSION UPDATED

FIELD NOTE: THESE UNITS REQUIRE EBR OPTION

APPROVED BY

APPROVAL SPACE

PROJECT:
ELEVATOR #2, #1
LOCATION:

ENG/ARCH:

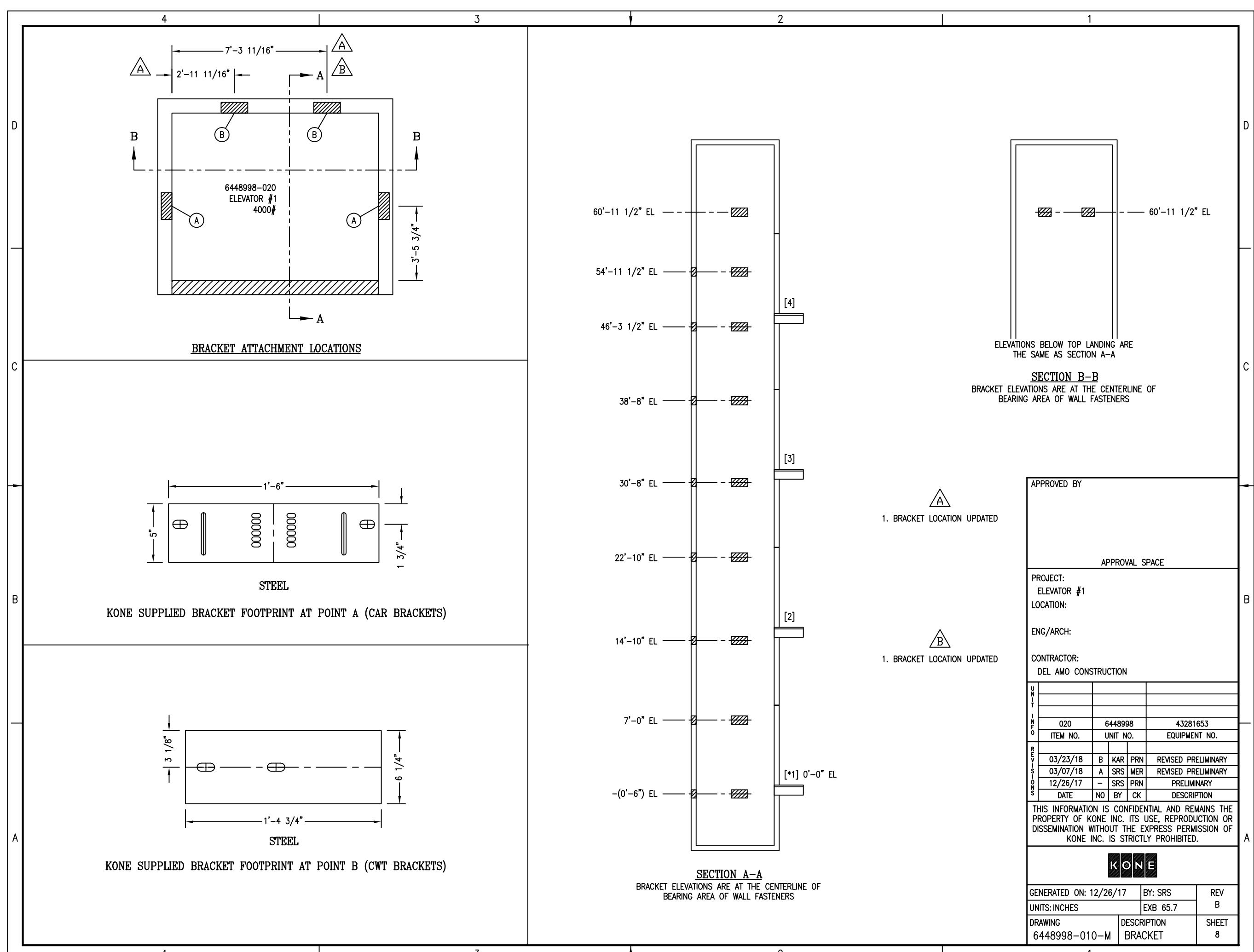
CONTRACTOR:
DEL AMO CONSTRUCTION

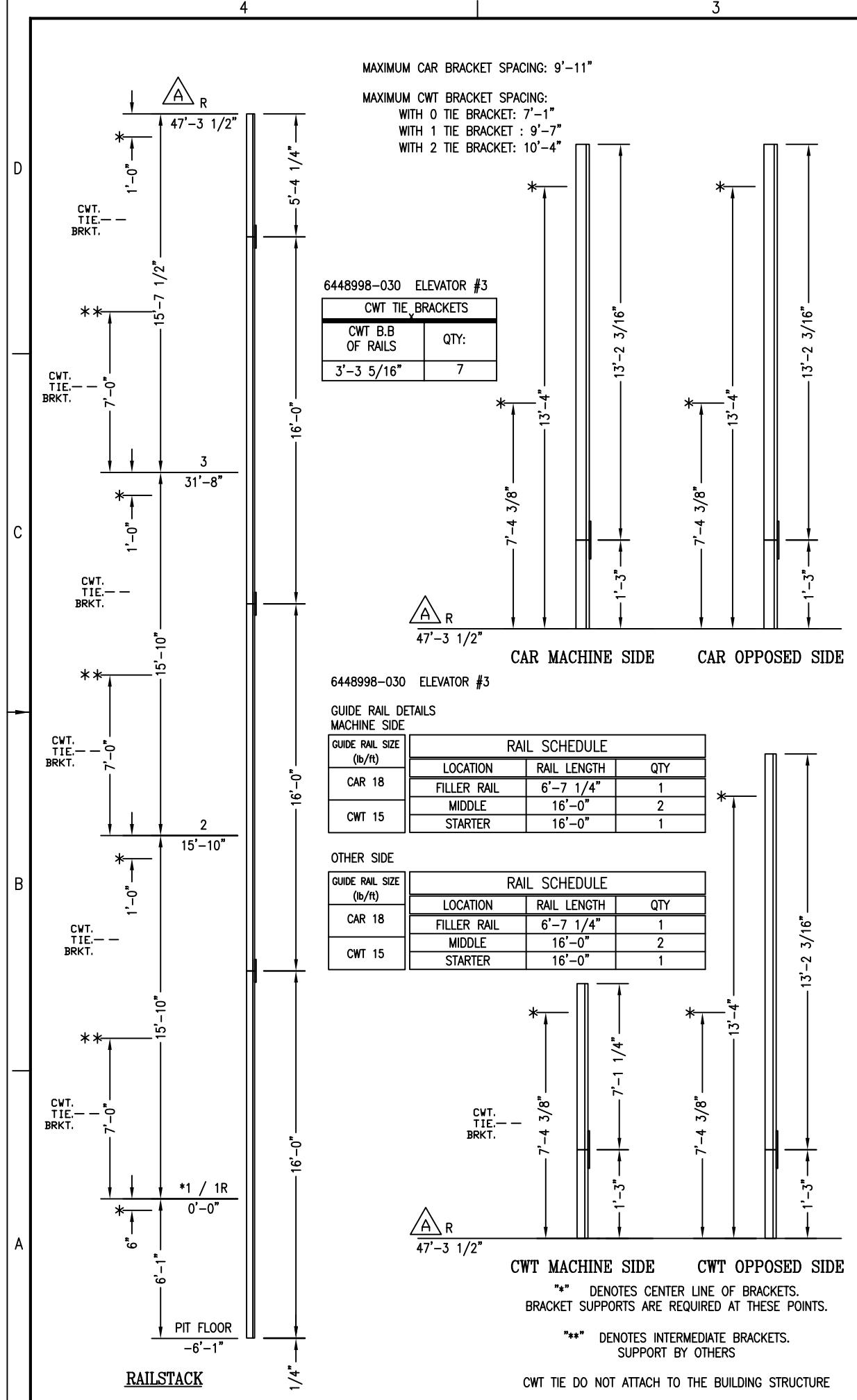
UNIT	ITEM NO.	UNIT NO.	EQUIPMENT NO.
	020	6448998	43281653
	015	6448998	43281652
INFO	ITEM NO.	UNIT NO.	EQUIPMENT NO.
REV			
03/23/18	B	KAR	REVISED PRELIMINARY
03/07/18	A	SRS	REVISED PRELIMINARY
12/26/17	-	PRN	PRELIMINARY
DATE	NO	BY	CK
			DESCRIPTION

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KONE

GENERATED ON: 12/26/17	BY: SRS	REV
UNITS: INCHES	EXB 65.7	B
DRAWING 6448998-010-M	DESCRIPTION CONTROLLER	SHEET 5

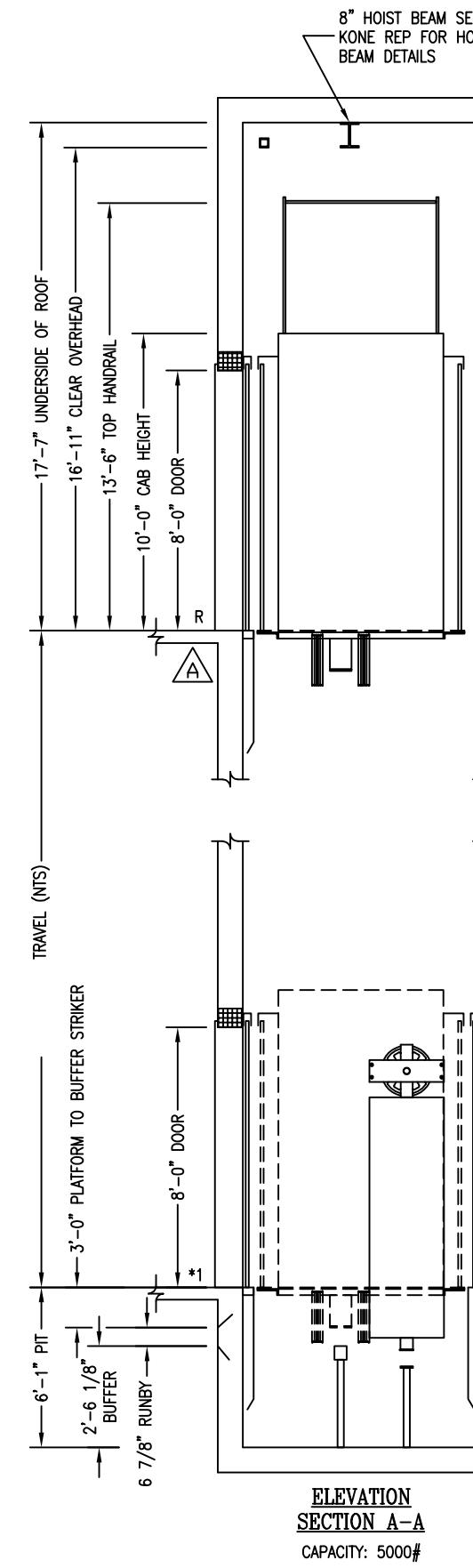




"*" DENOTES CENTER LINE OF BRACKETS.
BRACKET SUPPORTS ARE REQUIRED AT THESE POINTS.

*** DENOTES INTERMEDIATE BRACKETS.
SUPPORT BY OTHERS

1.BRACKET TABLE UPDATED



**ELEVATION
SECTION A**

1.BRACKET TABLE UPDATED
2.FLOOR MARK UPDATED

ELEVATIONS OR FLOOR MARKINGS OF THE FOLLOWING
MUST BE NOTED WHEN APPLICABLE.

DESIGNATION	FLOOR MARKING
MAIN ELEVATION LOBBY	*1
FIRE SERVICE RETURN	*1
ALTERNATE FIRE SERVICE RETURN	2
EMERGENCY POWER RETURN	*1

EMERGENCY POWER

APPROVAL SPACE

PROJECT:

ELEVATOR #3

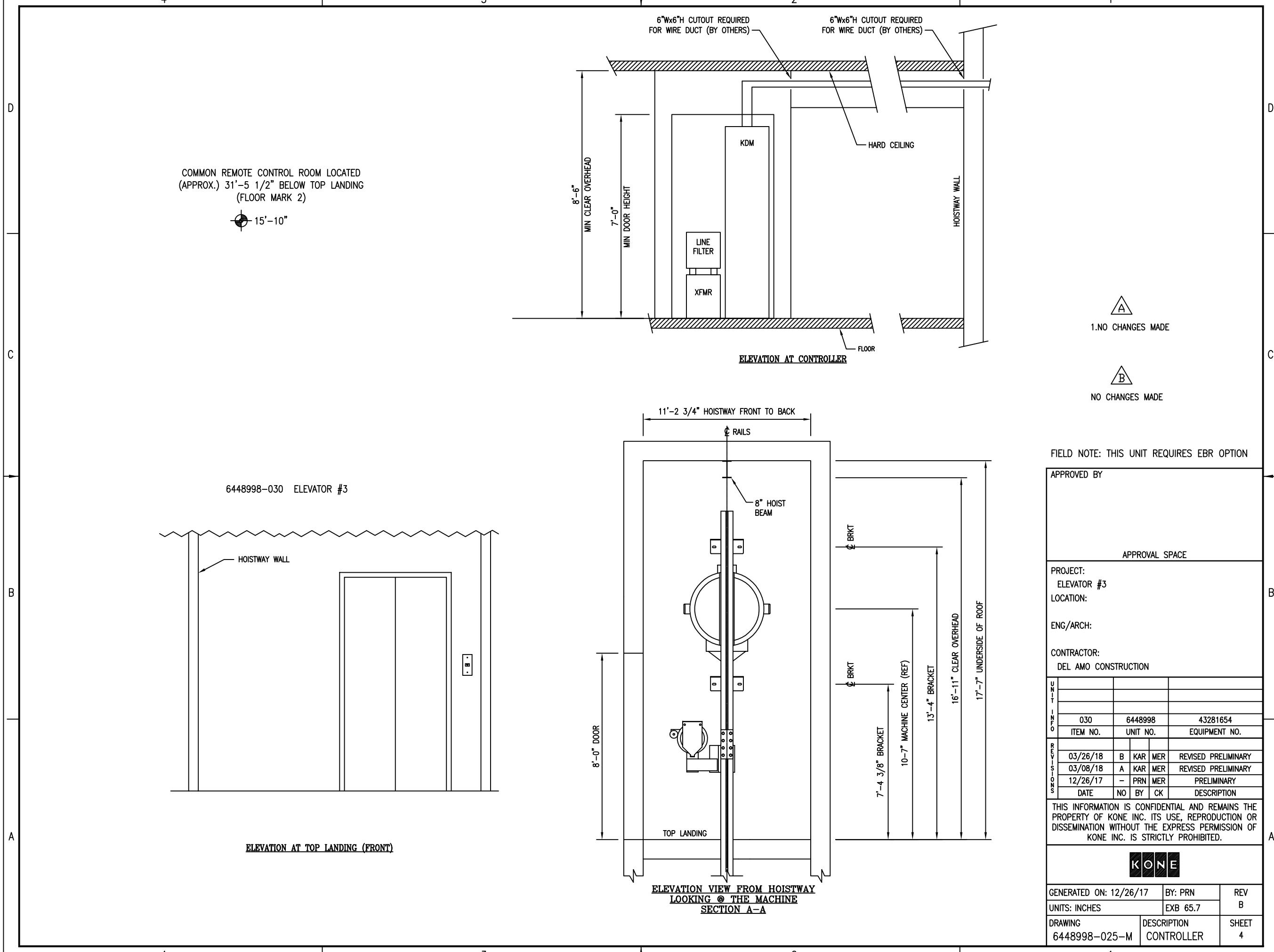
ENG/ARCH:
CONTRACTOR:

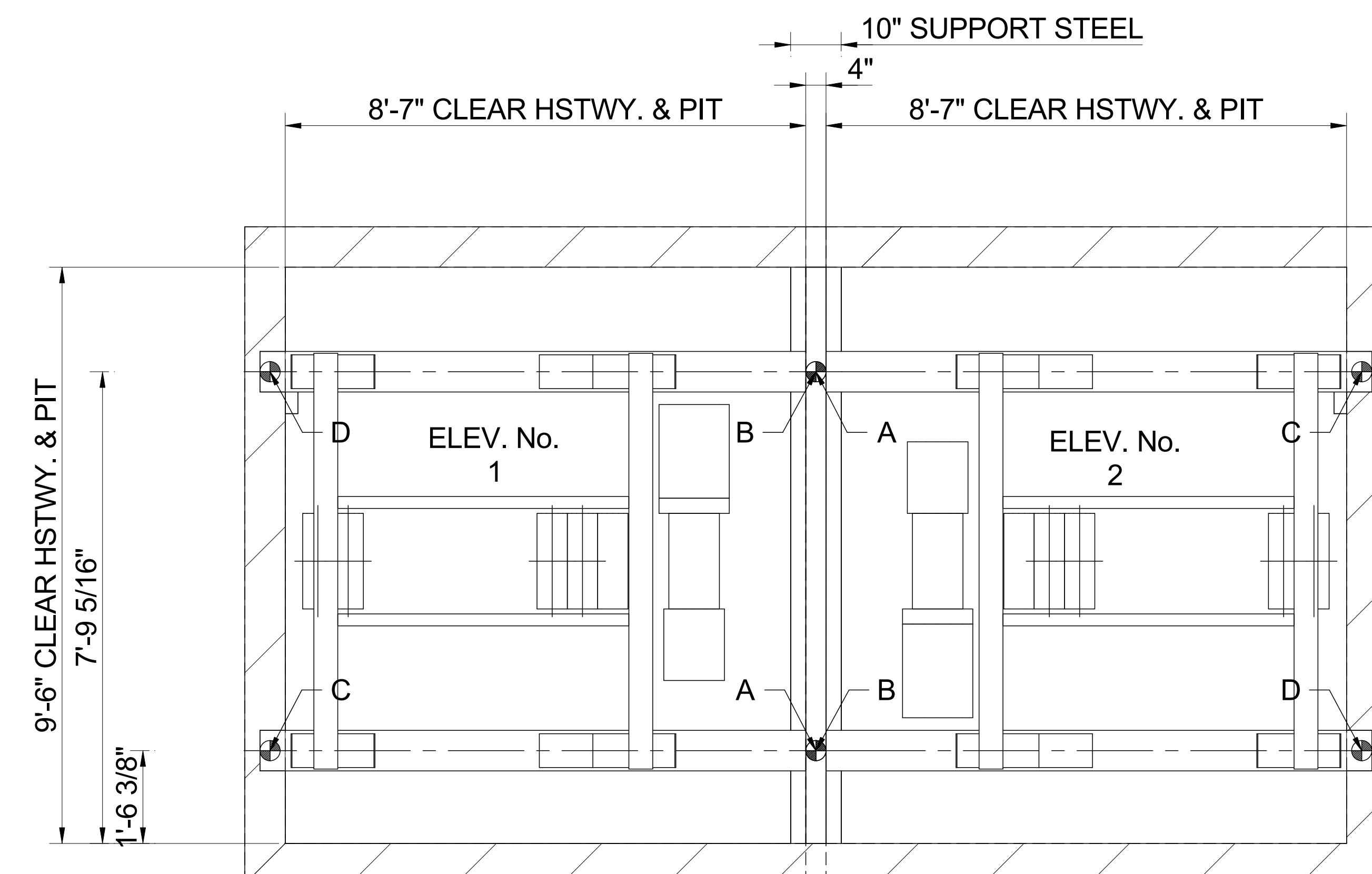
DEL AMO CONSTRUCTION				
UNIT INFO	ITEM NO.	UNIT NO.	EQUIPMENT NO.	
	030	6448998	43281654	
REVISION	03/26/18	B	KAR	MER
	03/08/18	A	KAR	MER
	12/26/17	-	PRN	MER
				PRELIMINARY

DATE NO BY CR DESCRIPTION
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The KONE logo is a wordmark consisting of the word "KONE" in a bold, sans-serif font. The letters are white and set against a dark, textured background that appears to be made of four vertical panels.

GENERATED ON: 12/26/17	BY: PRN	REV
UNITS: INCHES	EXB 65.7	B
DRAWING 6448998-025-M	DESCRIPTION RAILSTACK	SHEET 3





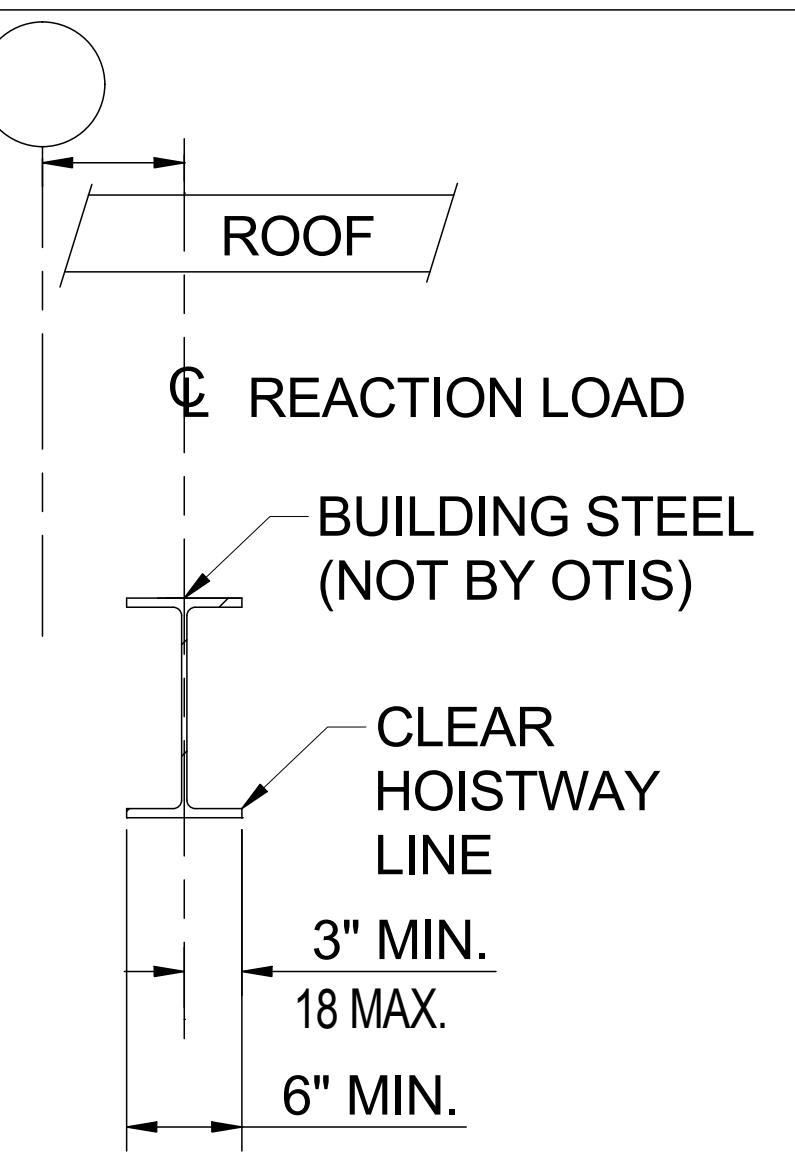
BUILDING REACTIONS

	KIPS	
	STATIC	DYNAMIC
A	3.99	7.53
B	3.95	7.39
C	7.15	13.29
D	7.09	13.07
MACH. BEAM SIZE	W10X45 x 112" LG	

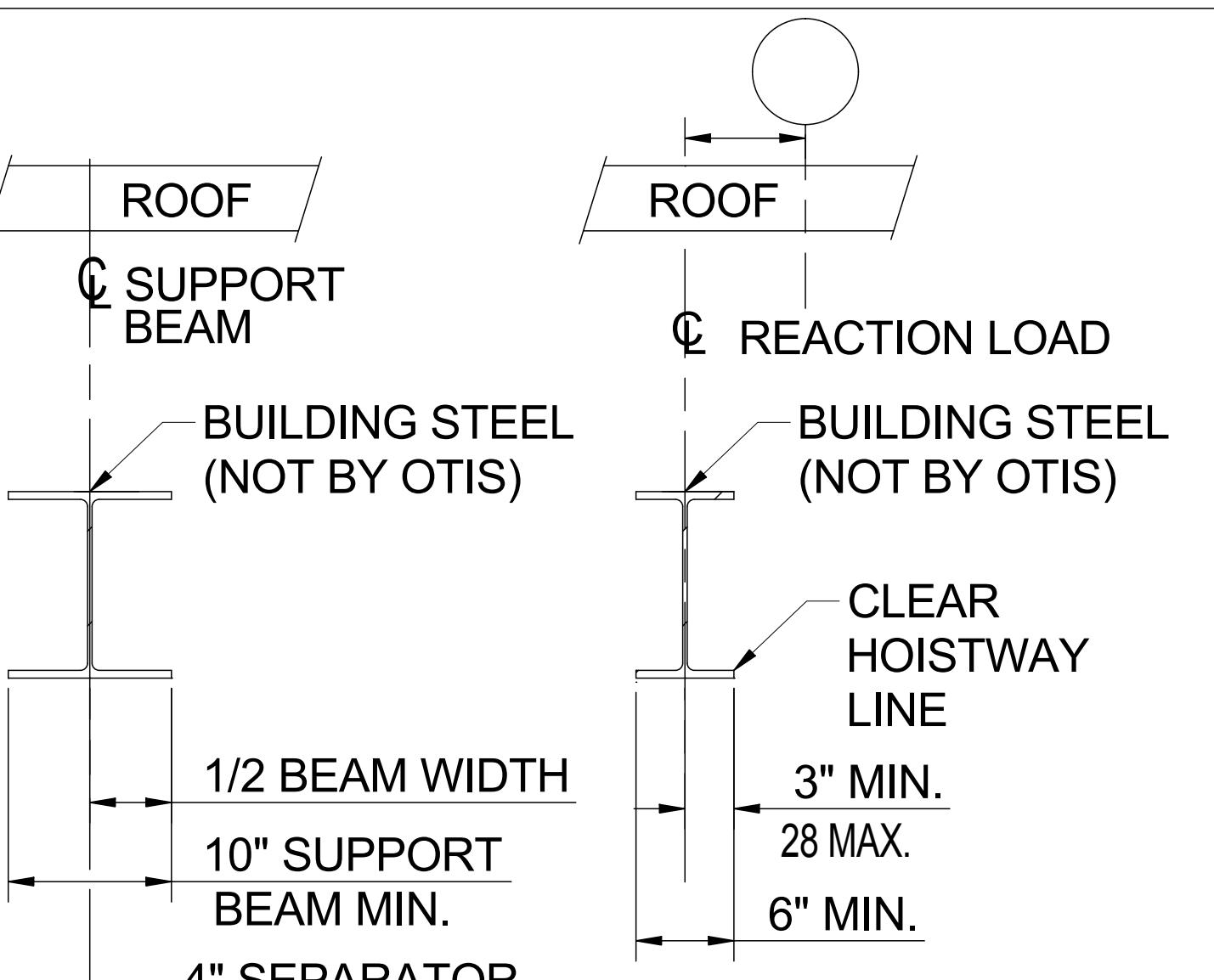
DESIGN CRITERIA FOR BUILDING IMMEDIATE SUPPORTS

1. STATIC CONDITION: $\Delta_{\text{ALLOW.}} = \frac{\text{SPAN}}{1666}$

2. DYNAMIC CONDITION: STRESS $\frac{\text{ALLOW.}}{\text{PERMITTED}} = 80\%$ OF THE PERMITTED STRESSES FOR STATIC LOADS.



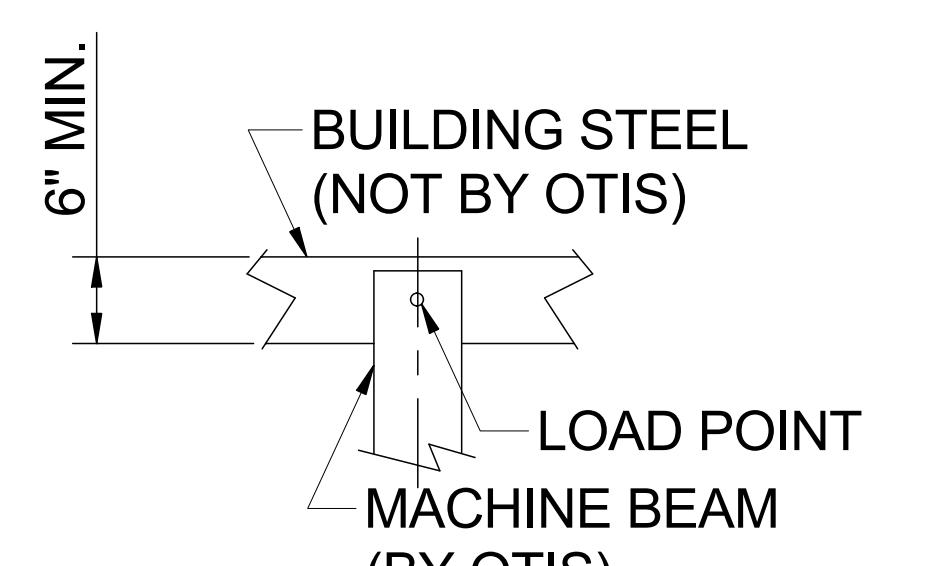
LEFT STEEL SUPPORT



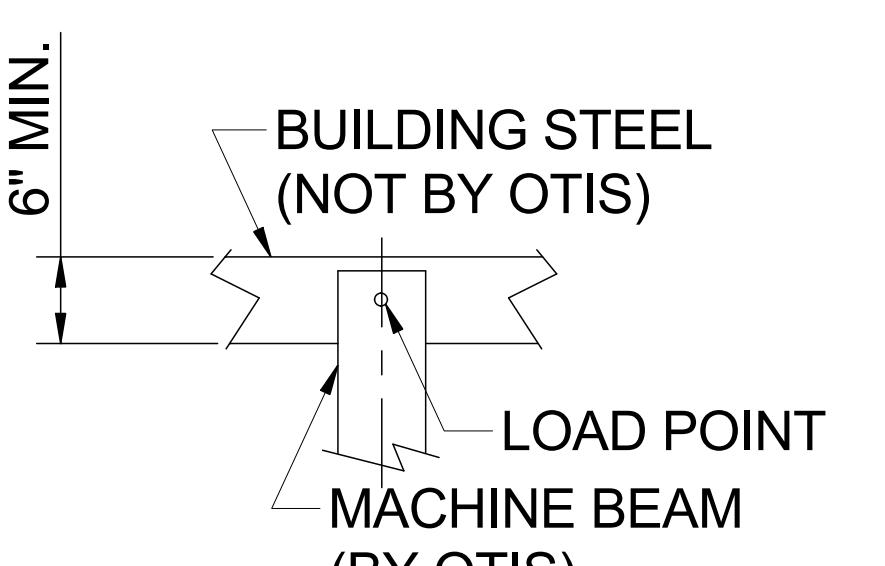
RIGHT STEEL SUPPORT

PLEASE PROVIDE AND VERIFY COLUMN LINE REFERENCE AND DISTANCE FROM COLUMN LINE TO $\frac{C}{C}$ OF STEEL SUPPORT

SIGNED: _____ DATE: _____

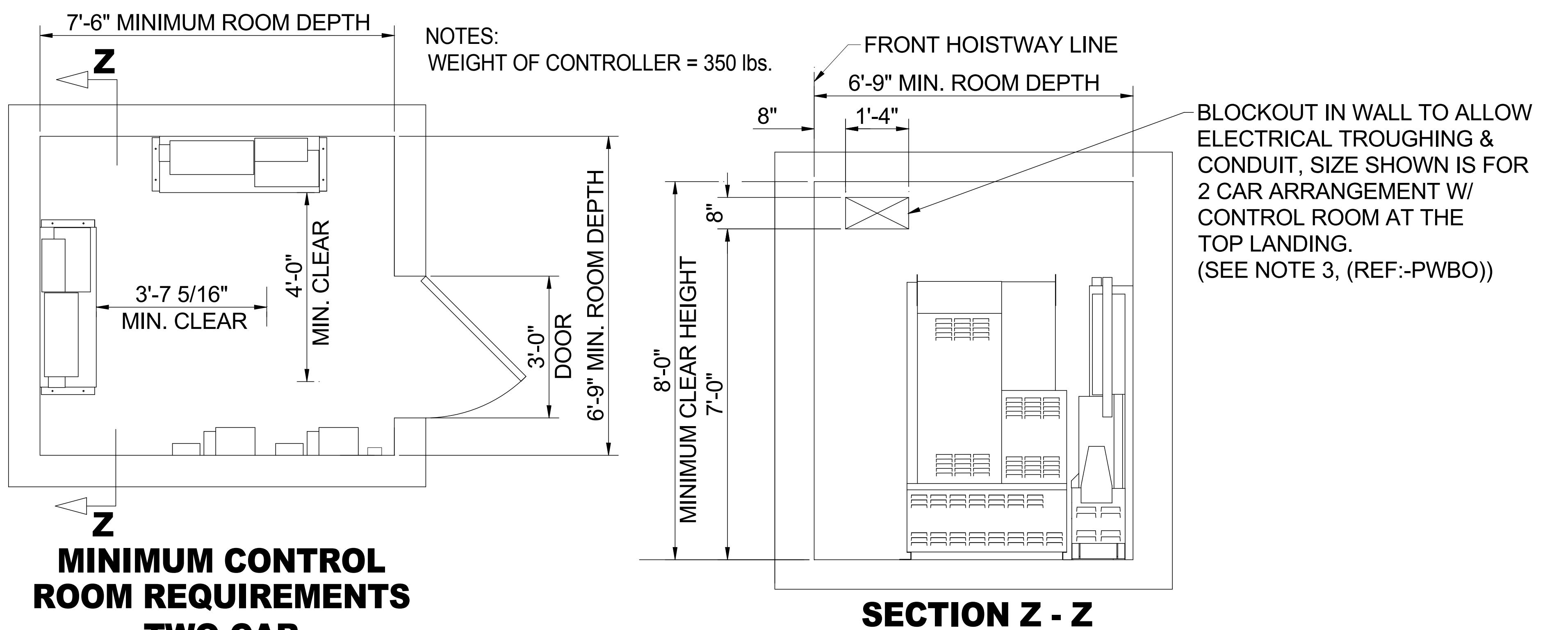


STEEL SUPPORT DETAIL

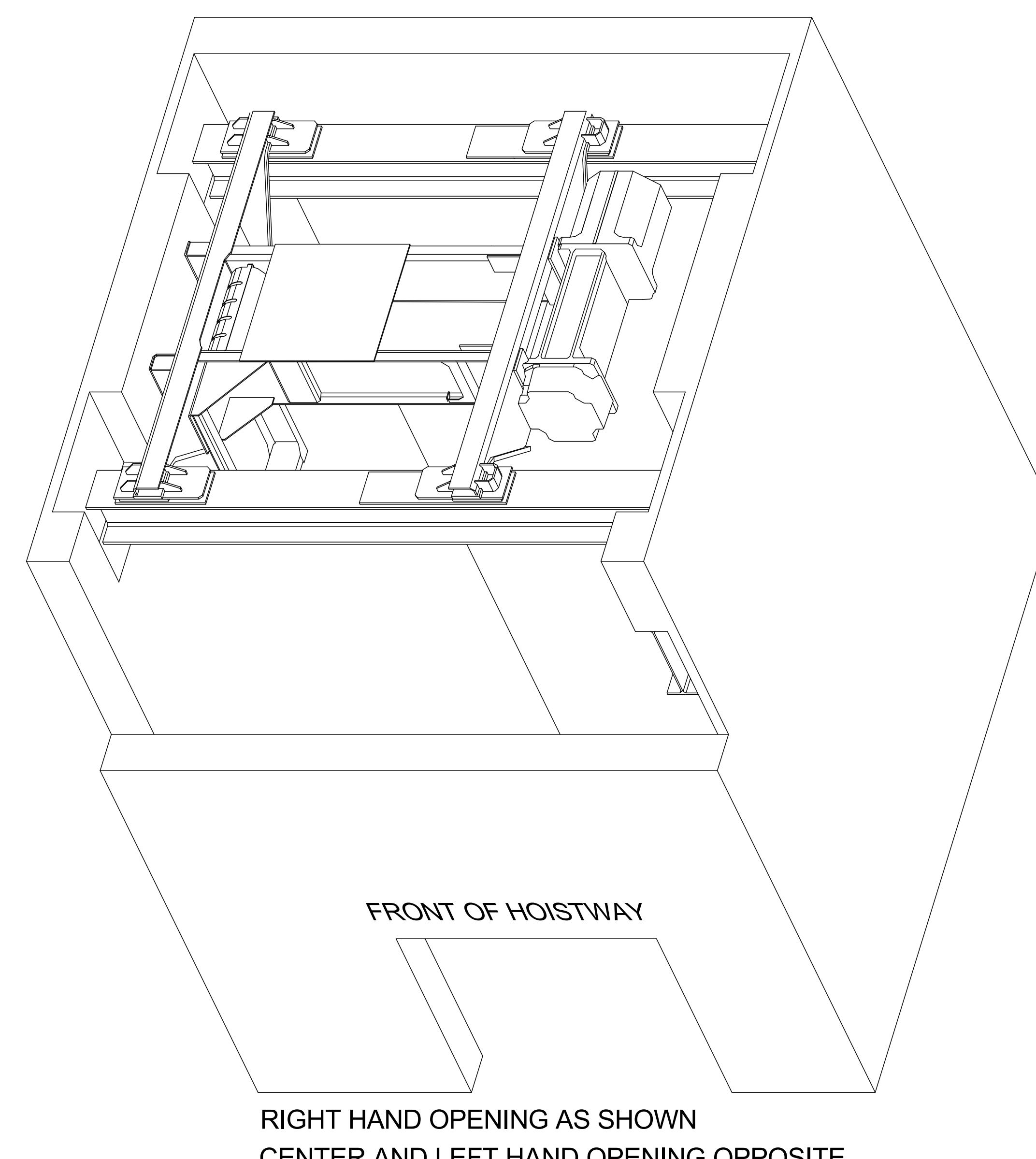


STEEL SUPPORT DETAIL

MACHINE MOUNTING STRUCTURE (MMS)



MINIMUM CONTROL ROOM REQUIREMENTS TWO CAR



MACHINE MOUNTING STRUCTURE (MMS)	
MACHINE LENGTH	7'-2 3/4"
MACHINE WIDTH	6'-10 3/16"
MACHINE HEIGHT	1'-5 3/8"

APPROVAL
THIS ARRANGEMENT AND
SUPPLEMENTARY NOTES APPROVED

SIGNED: _____ DATE: _____

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Gen2® **4500 #**
350 F.P.M.

CAB TYPE = VENERCB COUNTER WEIGHT SAFETY = Y
SEISMIC = ZONE4 GLASS BACK CAR = N

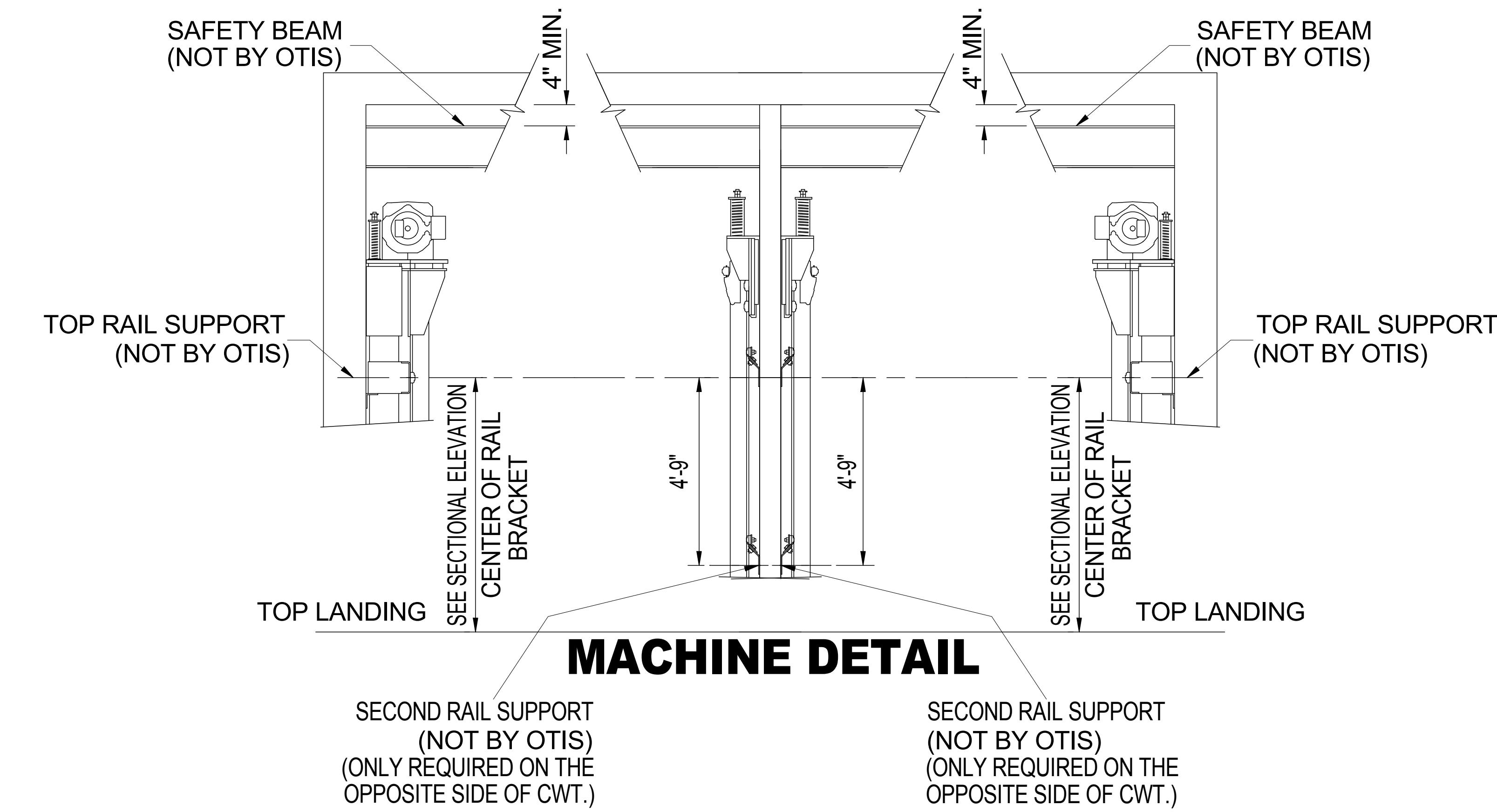
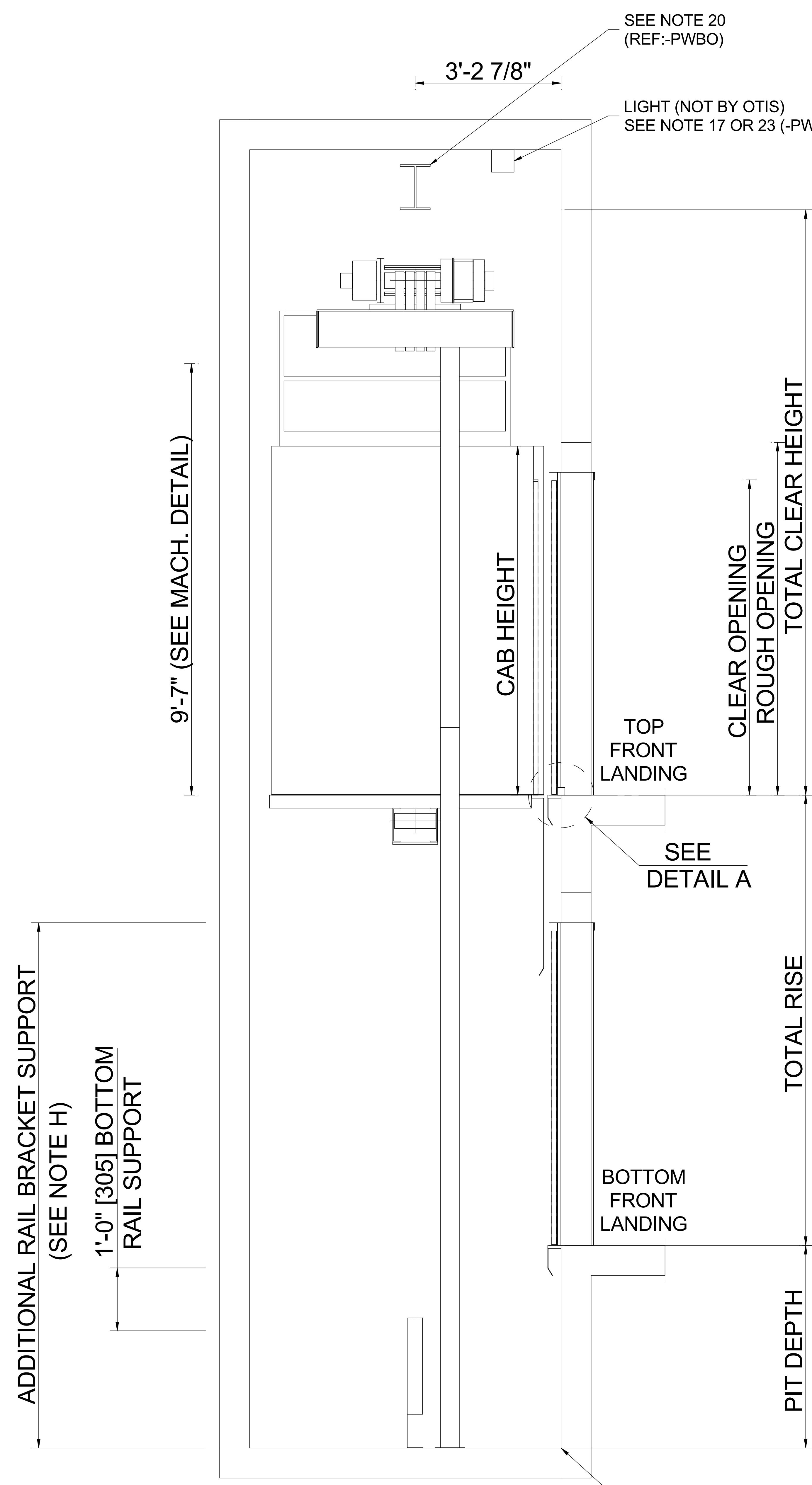


A United Technologies Company

REVISION DATE: SHEET 3 OF 3

DWG. NO.: GEN4535H-EL

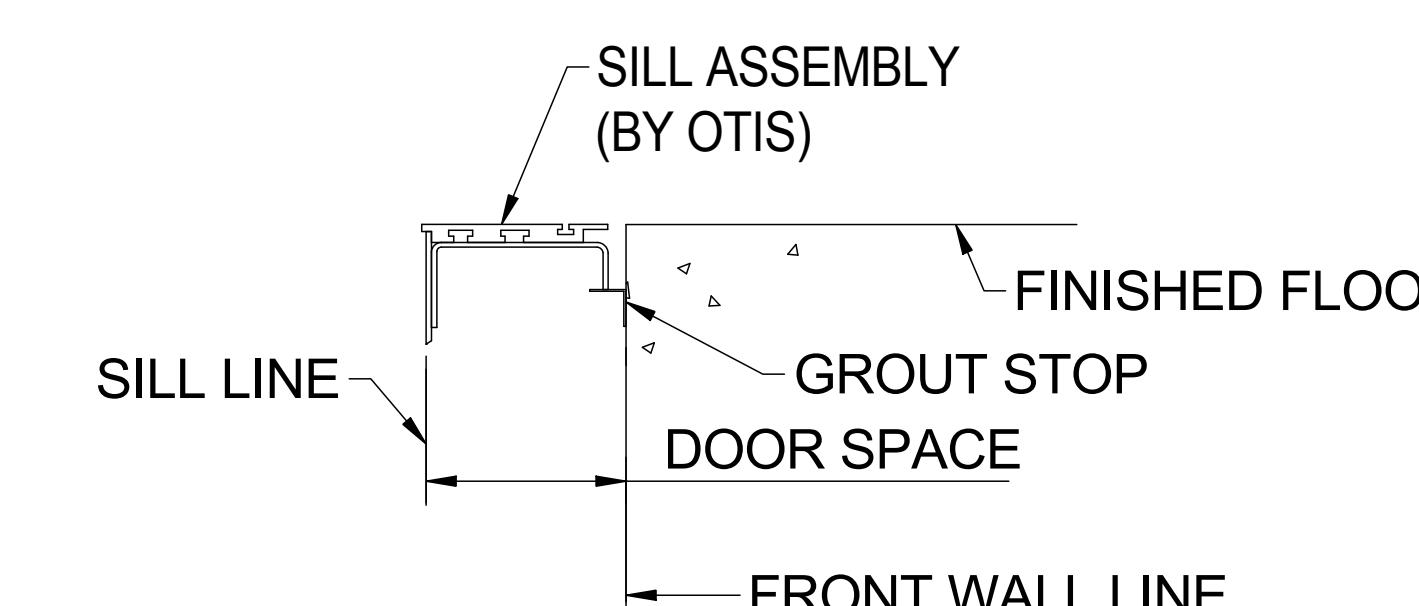
BUILDING _____
LOCATION _____
CONT. WITH _____
OWNER _____
ARCHT. _____
CONTRACT NO. _____



<= 2007 CODE YEAR		> 2009 CODE YEAR	
CAB HEIGHT		CAB HEIGHT	
7'-9"	9'-9"	7'-9"	9'-9"
MIN RISE		28'-11"	
MAX RISE		150'-0"	
MIN. TOTAL CLEAR HEIGHT	13'-9"	15'-9"	13'-7"
MAX. TOTAL CLEAR HEIGHT	MIN CLEAR HEIGHT + 2'-0" [609.6mm]		
PIT DEPTH	IF A17.7 IS ADOPTED THEN PIT DEPTH = 4'-6" IF A17.7 IS NOT ADOPTED THEN PIT DEPTH = 5'-6"		

- MINIMUM FLOOR HEIGHT IS 8'-3" [2515mm] with 7'-0" [2134] ENTRANCE
- MAXIMUM FLOOR HEIGHT IS 20'-0"
- HOISTWAY LIGHT SWITCH LOCATED 3'-0" [914] ABOVE TOP LANDING COORDINATE WITH OTIS 8'-0" [2438] ENTRANCE AVAILABLE WITH 9'-9" [2819] CAB.
- IF HOISTWAY VENTILATION IS REQUIRED, THE LOCATION CANNOT BE LOCATED ABOVE OR NEAR THE MACHINE OF THE ELEVATOR SYSTEM.

STANDARD WORKING RANGES



DETAIL "A" SILL SUPPORT

ADEQUATE SUPPORT AT ALL FASTENING POINTS OF ENTRANCE ASSEMBLY REQUIRED. MUST WITHSTAND A HORIZONTAL PULL-OUT FORCE OF 140 LBS. @ EA. FASTENING POINT (8 @ EA. ENTRANCE) INCLUDING SUPPORT FOR CENTER SILL SUPPORT BRACKET (NOT BY OTIS).

NOTE H
DEPENDING ON THE BUILDING CONSTRUCTION, AN ADDITIONAL RAIL BRACKET SUPPORT MAY BE REQUIRED LOCATED 14'-0" [4267] ABOVE THE PIT FLOOR. CONTACT YOUR LOCAL SALES REPRESENTATIVE FOR ASSISTANCE.

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**Gen2® 3500 #
350 F.P.M.**

CAR TYPE = PASSENGER CONTROLLER LOCATION = ROOM
SEISMIC = ZONE 0 GLASS BACK CAR = N



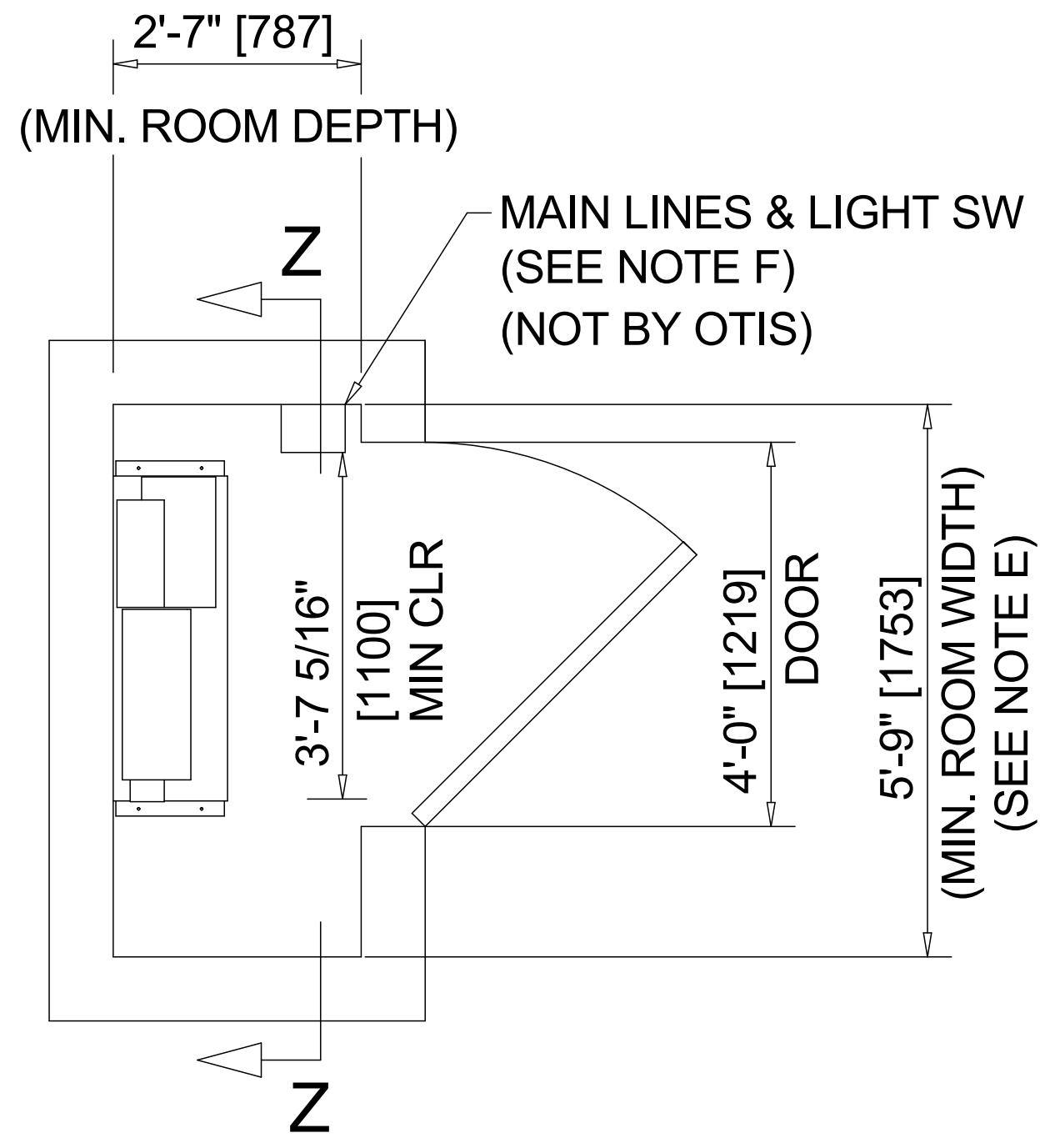
A United Technologies Company

REVISION DATE: 3/2/2018

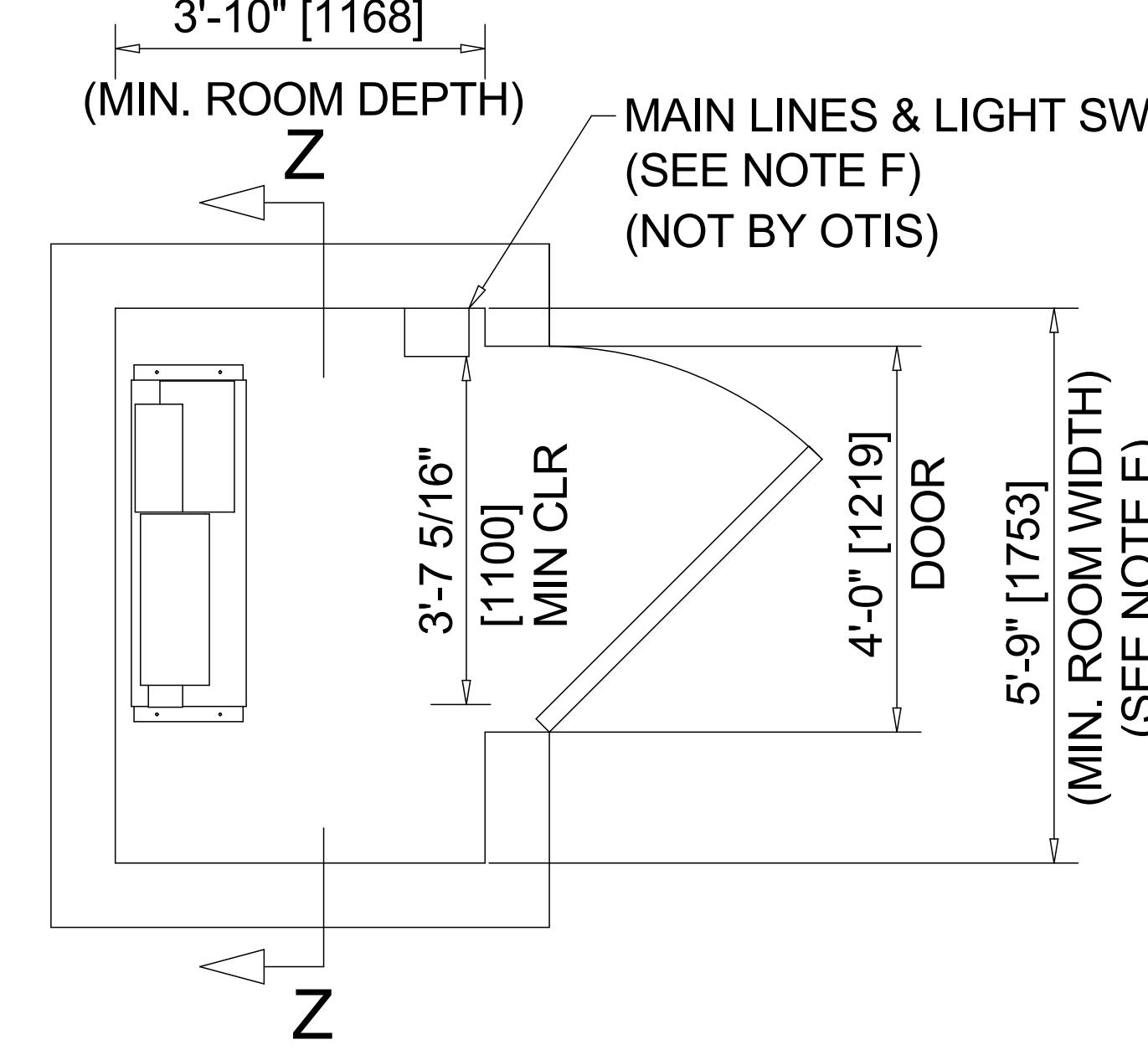
SHEET 3 OF 4

DWG. NO.: **G2S 3500-EL**

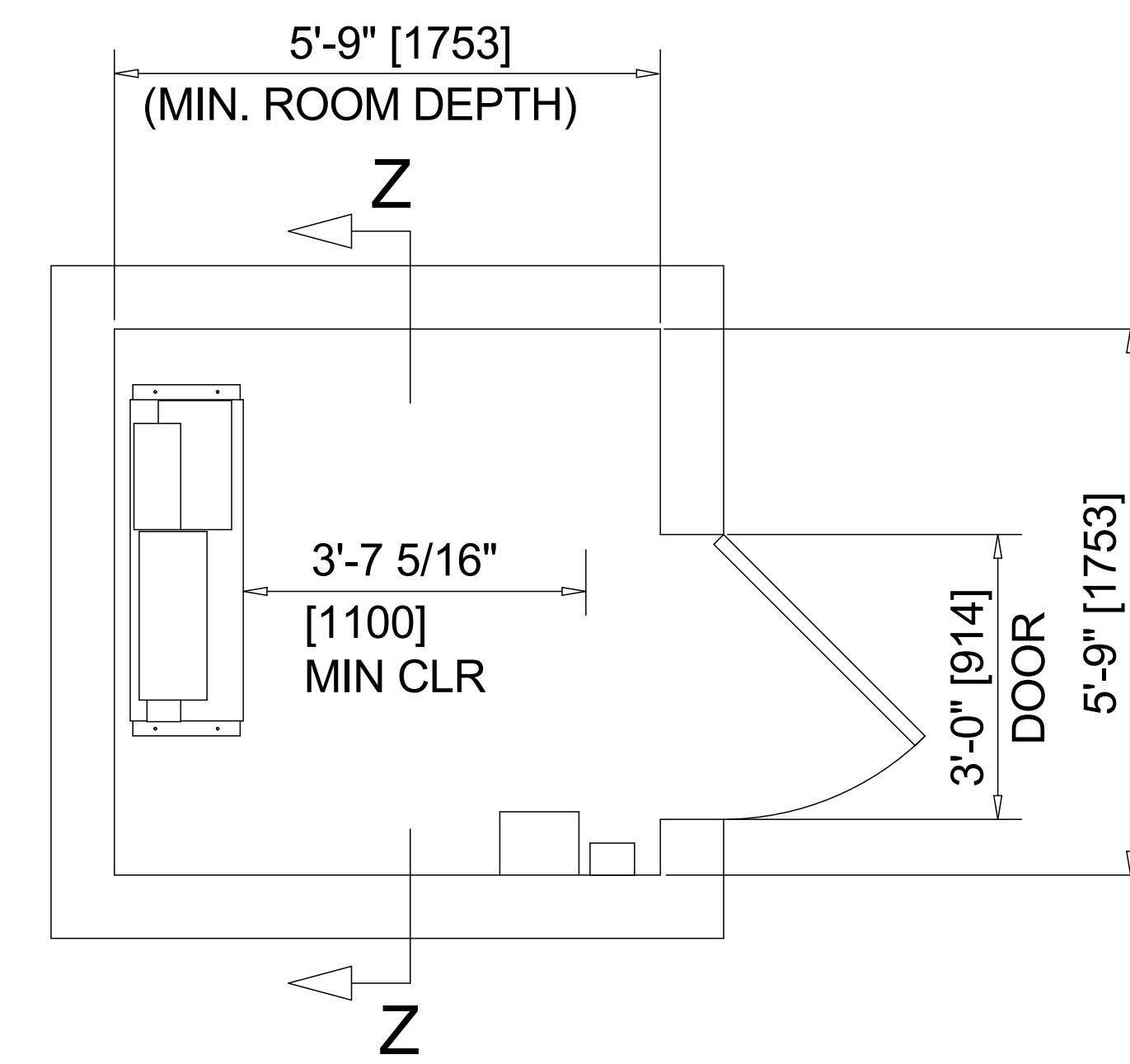
BUILDING
LOCATION
CONT. WITH
OWNER
ARCHT.
CONTRACT NO.



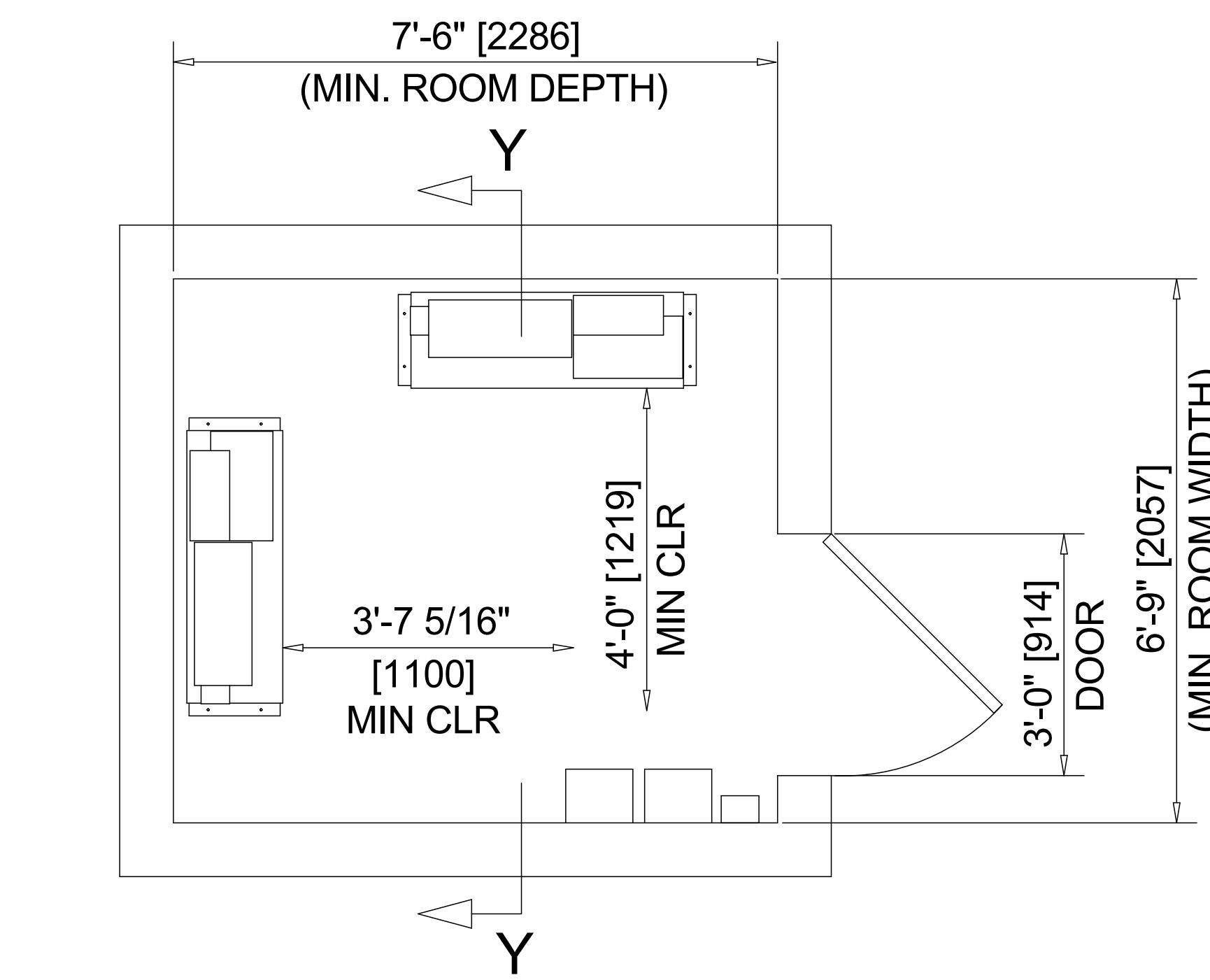
MINIMUM CONTROL
SPACE REQUIREMENTS
ONE CAR
WITHOUT AUTOMATIC
RECOVERY OPERATION



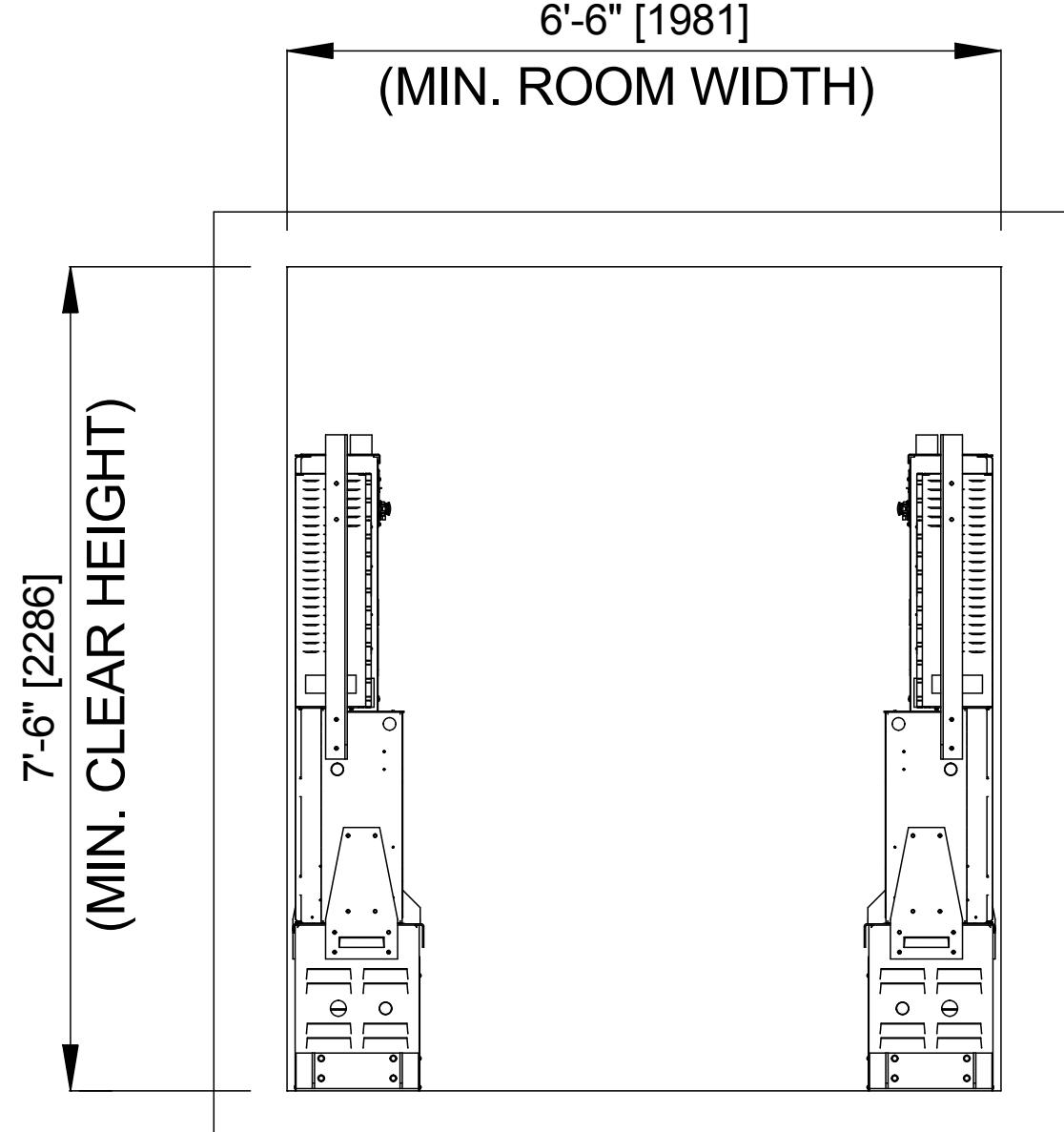
MINIMUM CONTROL
SPACE REQUIREMENTS
ONE CAR
WITH AUTOMATIC
RECOVERY OPERATION



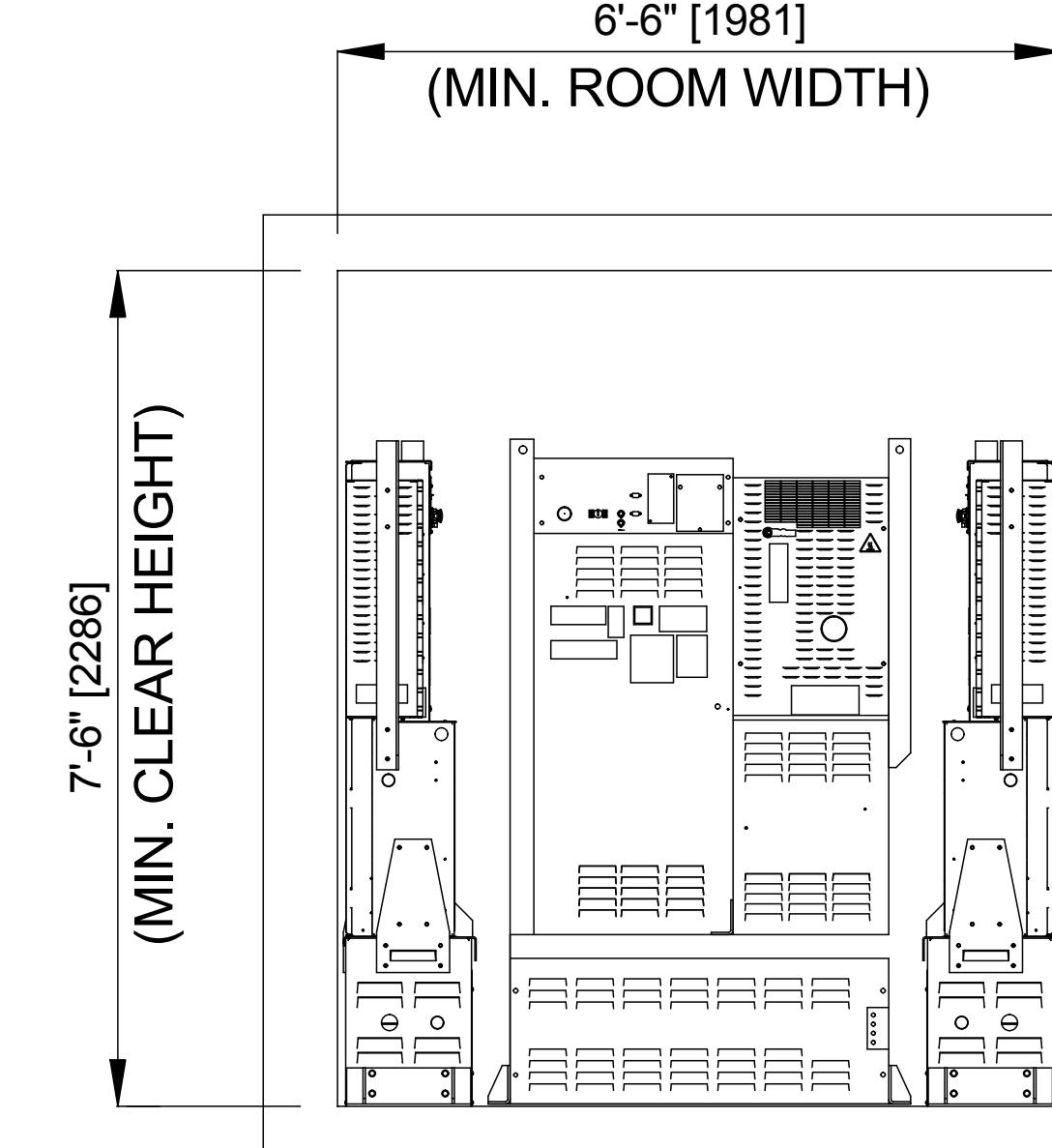
MINIMUM CONTROL
ROOM REQUIREMENTS
ONE CAR



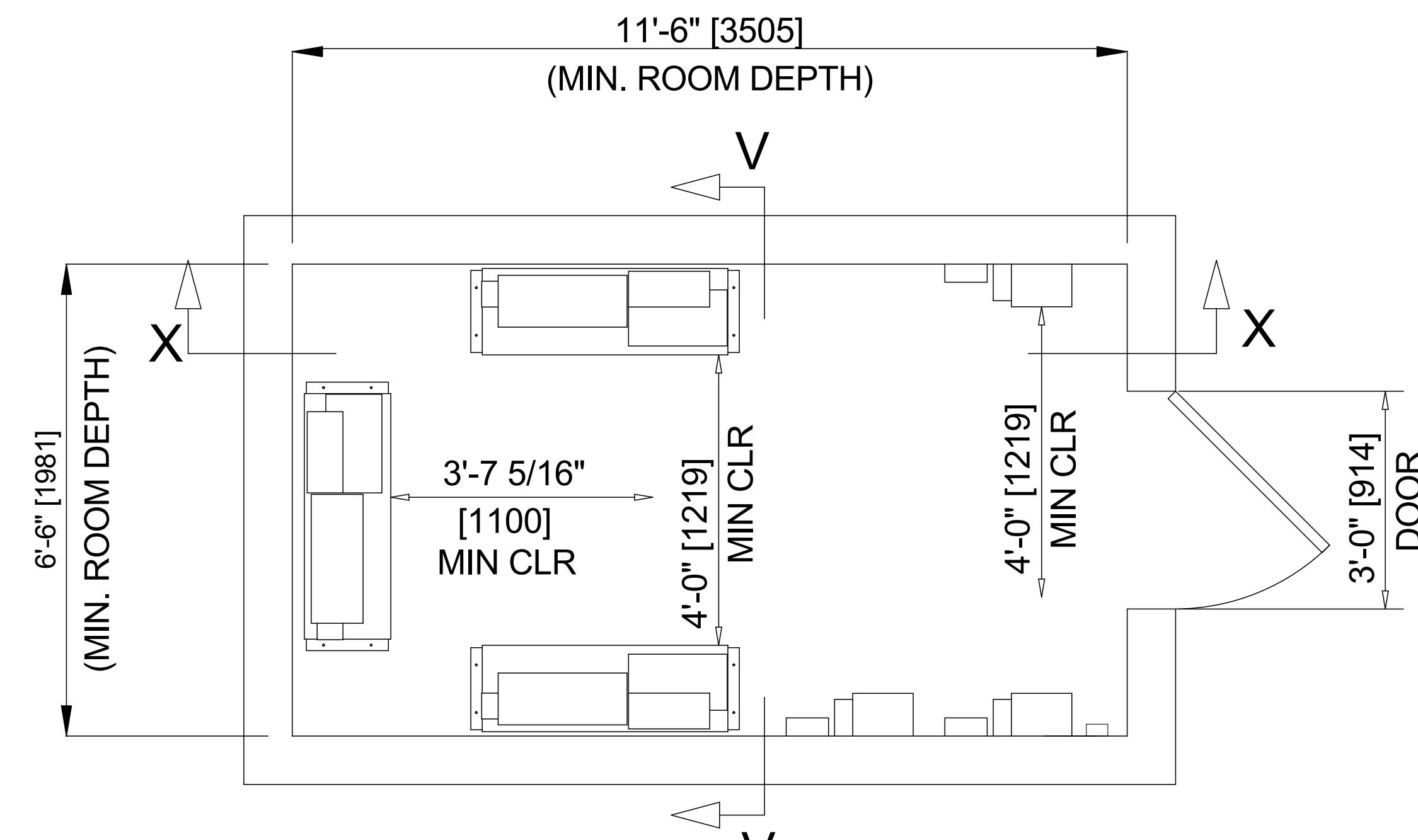
MINIMUM CONTROL
ROOM REQUIREMENTS
TWO CARS



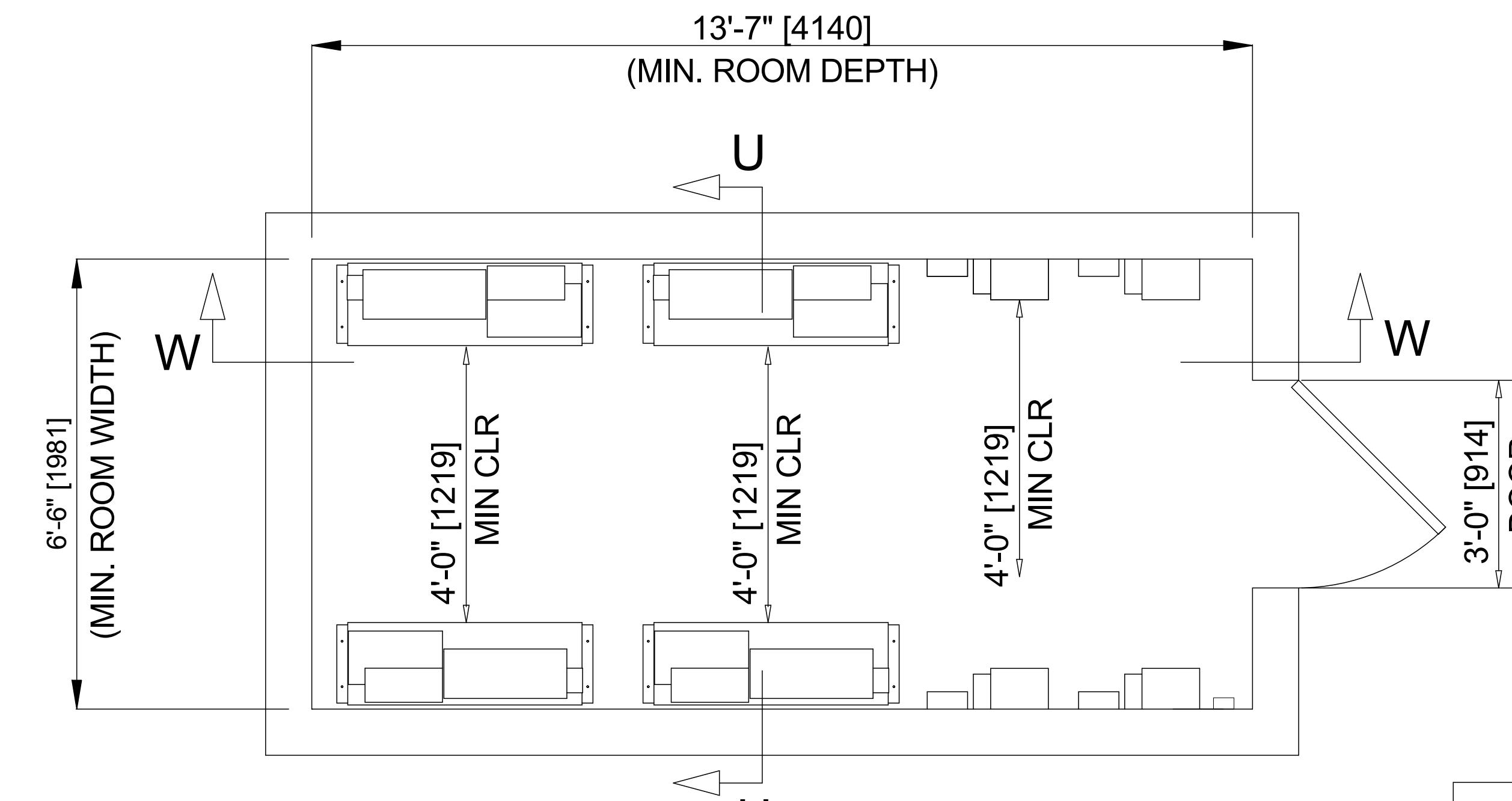
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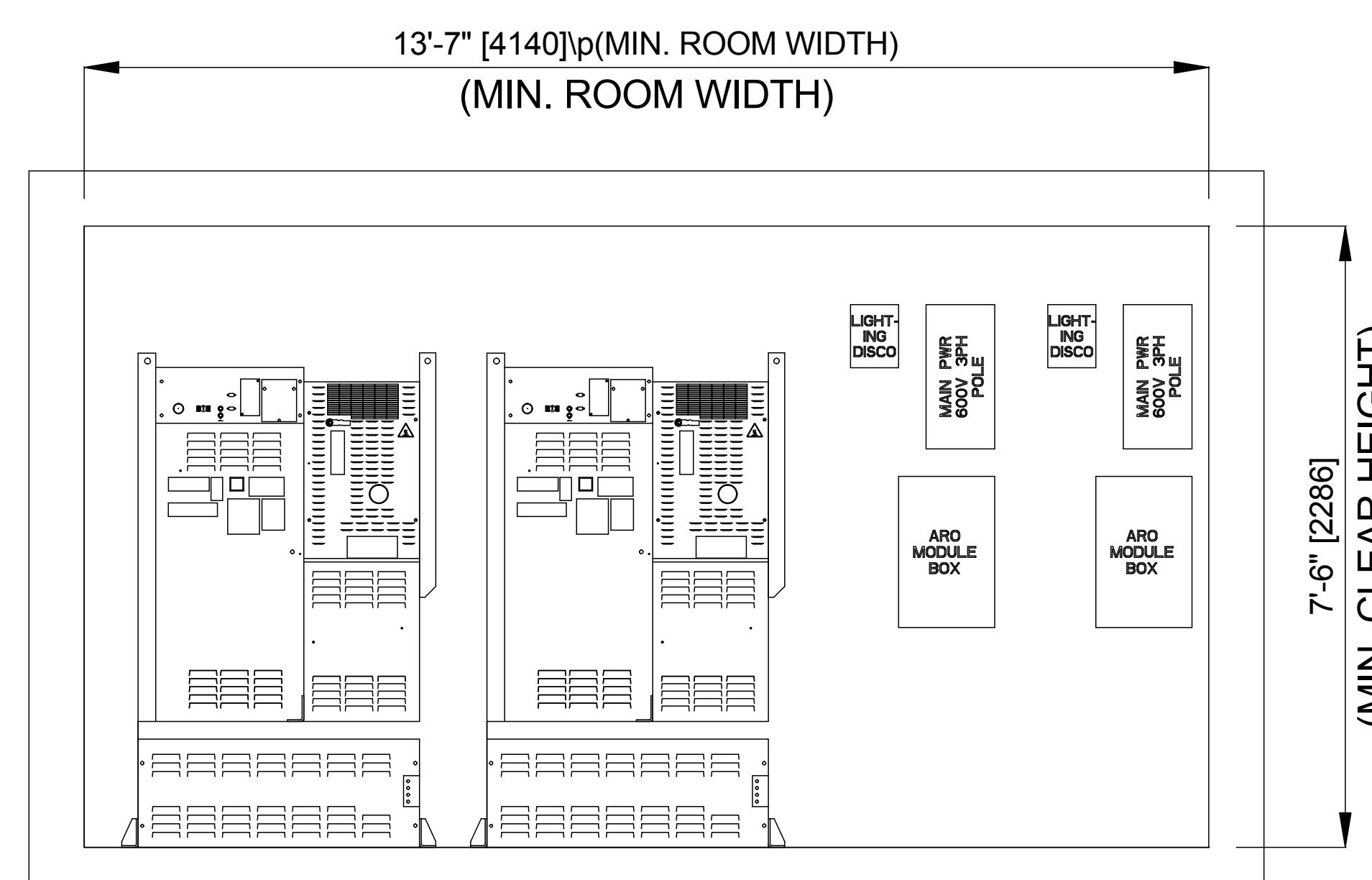
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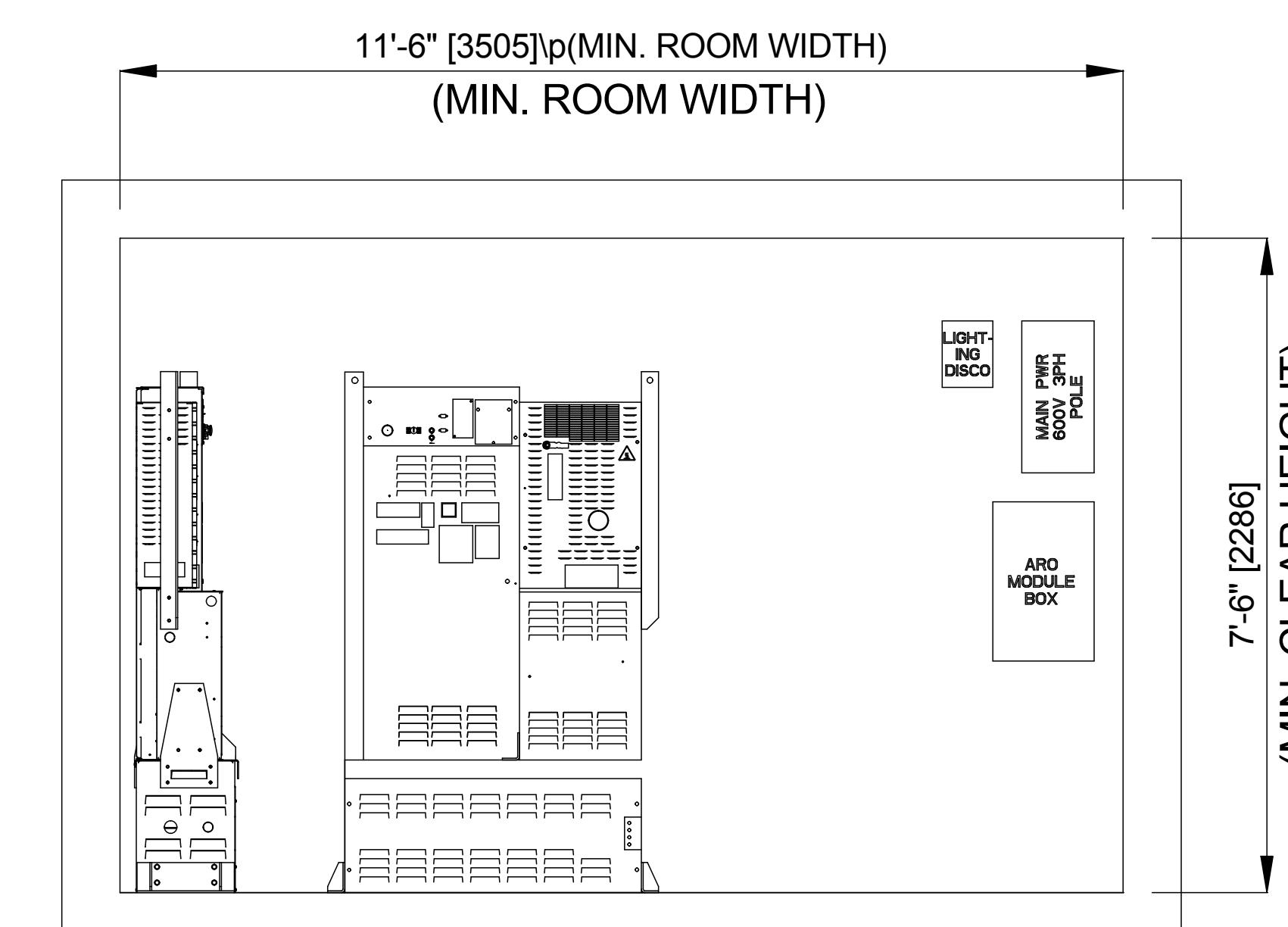
MINIMUM CONTROL
ROOM REQUIREMENTS
THREE CARS



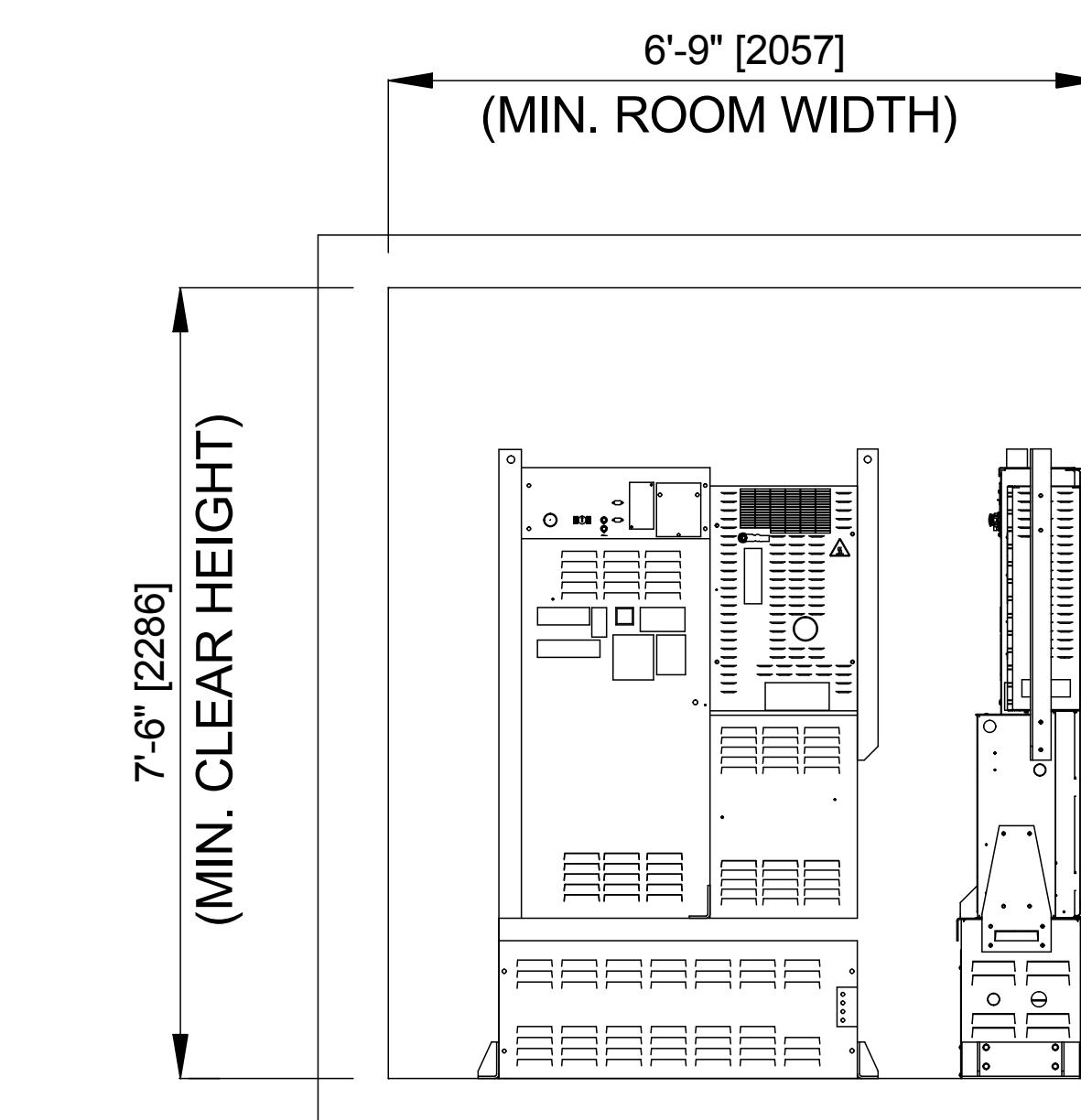
MINIMUM CONTROL
ROOM REQUIREMENTS
FOUR CARS



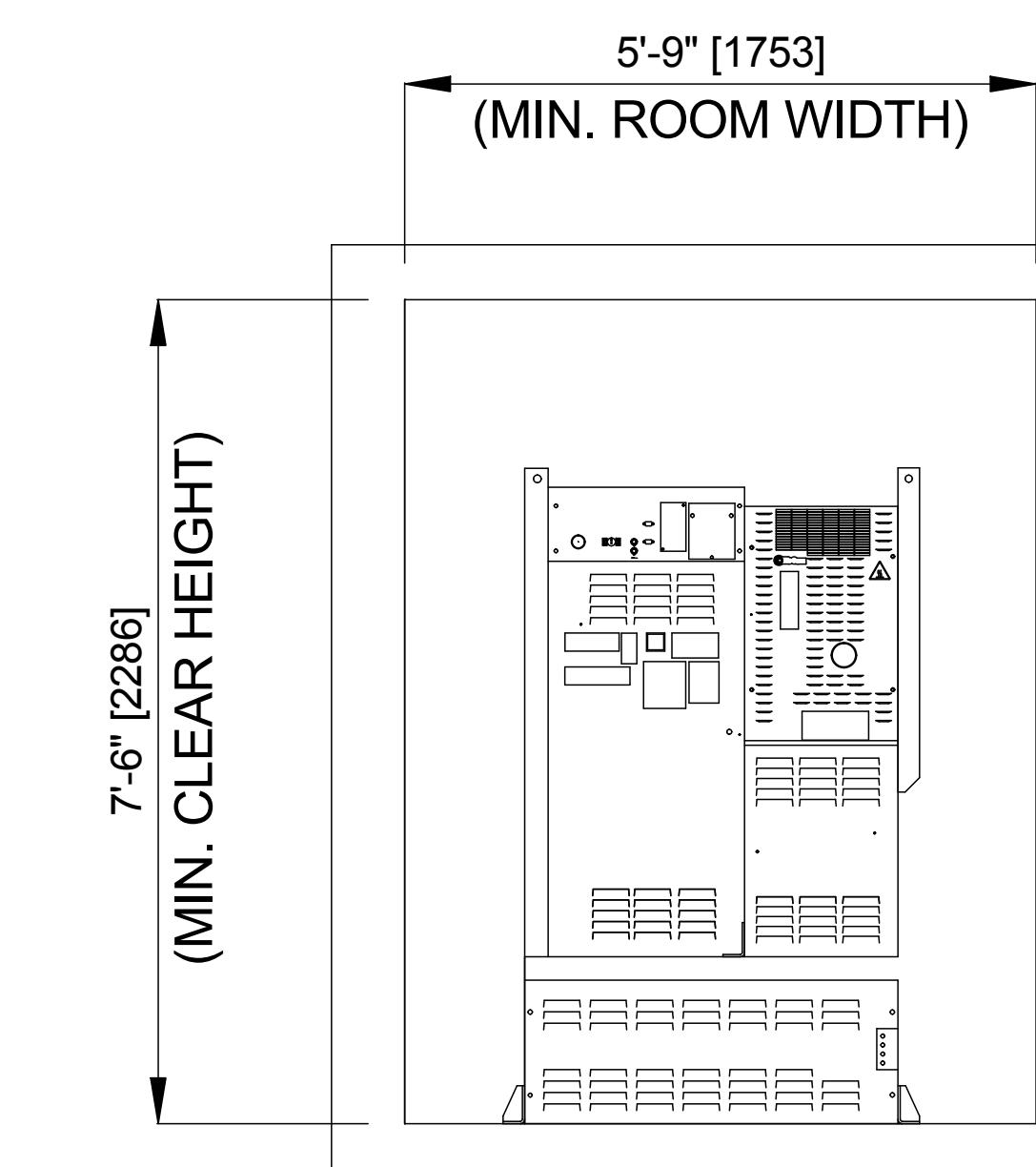
SECTION W - W



SECTION X - X



SECTION Y - Y



SECTION Z - Z

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Gen2® 3500 # 350 F.P.M. CAR TYPE = PASSENGER CONTROLLER LOCATION = ROOM SEISMIC = ZONE0	
 Otis A United Technologies Company	
REVISION DATE: 3/2/2018	
DWG. NO.: G2S 3500-CR	
BUILDING	
LOCATION	
CONT. WITH	
OWNER	
ARCHT.	
CONTRACT NO.	

KONE MONOSPACE® 700

MACHINE AT REAR CONFIGURATION & DIMENSIONS

Available in passenger shape with front opening option

Max Travel

300 ft. (91.4 m)

Max Landings

36

Speed

200, 350, 500 fpm
(1.00, 1.78, 2.54 m/s)

Car Height F

8, 9 or 10 ft.
(2438, 2743
or 3048 mm)

Entrance Height G

7, 8 or 9 ft.
(2134, 2438
or 2743 mm)

Visit kone.us for the latest
project-specific details, BIM
Models, CAD drawings,
specifications, electrical data,
reaction loads and building
access requirements.

PASSENGER	FRONT OPENING		A	A SEISMIC	B	C	D	E
	CAPACITY lbs. (kg)	OPENING TYPE	HOISTWAY WIDTH (mm)	HOISTWAY WIDTH (mm)	HOISTWAY DEPTH (mm)	INTERIOR WIDTH (mm)	INTERIOR DEPTH (mm)	DOOR WIDTH (mm)
2000 (907)	SSP	7'-4" (2235)	7'-8" (2337)	6'-8" (2032)	5'-8 1/2" (1740)	4'-3 1/4" (1302)	3'-0" (914)	
2500 (1134)	SSP-CO	8'-4" (2540)	8'-8" (2642)	6'-8" (2032)	6'-8 1/2" (2045)	4'-3 1/4" (1302)	3'-6" (1067)	
3000 (1361)	SSP-CO	8'-4" (2540)	8'-8" (2642)	7'-2" (2184)	6'-8 1/2" (2045)	4'-9 1/4" (1454)	3'-6" (1067)	
3500 (1588)	SSP-CO	8'-4" (2540)	8'-8" (2642)	7'-10" (2388)	6'-8 1/2" (2045)	5'-5 1/4" (1657)	3'-6" (1067)	
4000 (1814)	CO	9'-4" (2845)	9'-8" (2946)	7'-10" (2388)	7'-8 1/2" (2350)	5'-5 1/4" (1657)	4'-0" (1219)	

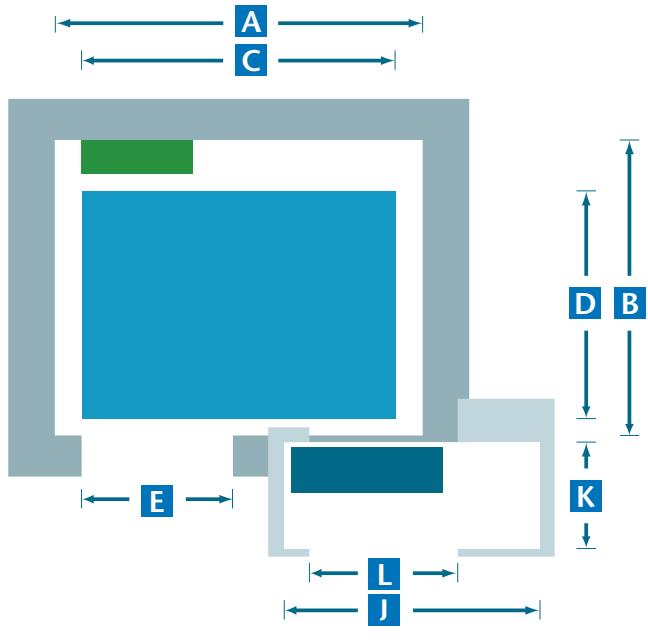
CLEAR OVERHEAD H AND PIT DEPTH I												
	200 FPM (1.00 M/S)				350 FPM (1.78 M/S)				500 FPM (2.54 M/S)			
	I	I SEISMIC	H	H SEISMIC	I	I SEISMIC	H	H SEISMIC	I	I SEISMIC	H	H SEISMIC
CAPACITY lbs. (kg)	PIT DEPTH (mm)	PIT DEPTH (mm)	CLEAR OVERHD (mm)	CLEAR OVERHD (mm)	PIT DEPTH (mm)	PIT DEPTH (mm)	CLEAR OVERHD (mm)	CLEAR OVERHD (mm)	PIT DEPTH (mm)	PIT DEPTH (mm)	CLEAR OVERHD (mm)	CLEAR OVERHD (mm)
2000 (907)	5'-3" (1600)	5'-3" (1600)	15'-6" (4724)	16'-11" (5156)	5'-7" (1702)	6'-7" (2007)	16'-11" (5156)	16'-11" (5156)	5'-7" (1702)	6'-7" (2007)	16'-11" (5156)	16'-11" (5156)
2500 (1134)	5'-3" (1600)	5'-3" (1600)	15'-0" (4572)	16'-11" (5156)	5'-5" (1651)	6'-5" (1956)	16'-7" (5055)	16'-11" (5156)	5'-5" (1651)	6'-5" (1956)	16'-7" (5055)	16'-11" (5156)
3000 (1361)	5'-3" (1600)	5'-3" (1600)	15'-2" (4623)	16'-11" (5156)	5'-5" (1651)	6'-5" (1956)	16'-10" (5131)	16'-11" (5156)	5'-5" (1651)	6'-5" (1956)	16'-10" (5131)	16'-11" (5156)
3500 (1588)	5'-5" (1651)	5'-5" (1651)	14'-10" (4521)	16'-11" (5156)	5'-5" (1651)	6'-5" (1956)	16'-4" (4978)	16'-11" (5156)	5'-5" (1651)	6'-5" (1956)	16'-4" (4978)	16'-11" (5156)
4000 (1814)	5'-6" (1676)	5'-6" (1676)	15'-1" (4597)	16'-11" (5156)	5'-6" (1676)	6'-6" (1981)	16'-7" (5055)	16'-11" (5156)	7'-5" (2261)	8'-5" (2565)	16'-11" (5156)	16'-11" (5156)

CONTROL SPACE		J	K	L
CAPACITY lbs. (kg)	CONTROLLER SPACE	WIDTH (mm)	DEPTH (mm)	DOOR WIDTH (mm)
2000 to 4000 (907 to 1814)	integral or remote cabinet	4'-4" (1321)	1'-8" (508)	4'-0" (1219)
2000 to 4000 (907 to 1814)	adjacent or remote room	5'-0" (1524)	dimension (B)	3'-0" (914)

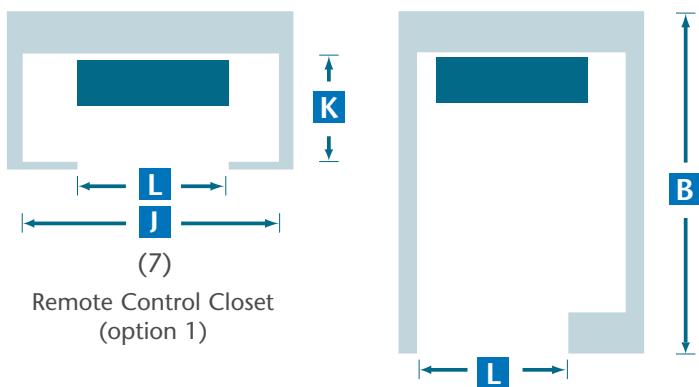
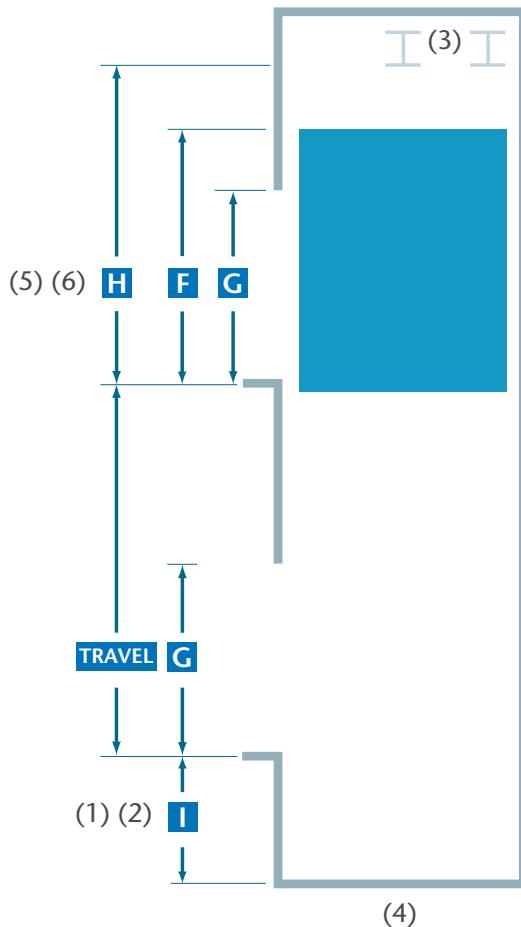
Notes

- (1) Smaller pit and overhead dimensions may be available per specific applications. Contact your KONE Sales Professional for further information.
- (2) Buffer service platforms are required when pit depth exceeds 8'-6" (2590 mm).
- (3) Hoist beams (by KONE) are required for installation (by others). Dimension H reflects clear under hoist beam.
- (4) If occupied space exists below the hoistway, consult your KONE Sales Professional.
- (5) All dimensions are based on an 8'-0" (2438 mm) cab with a 7'-0" (2134 mm) door. Alternate car and door heights are available, but may affect dimension H.
- (6) Add 8" (203 mm) in non-seismic and 12" (305 mm) in seismic zones to clear overhead dimension H for front-only passenger car if cab features glass-back wall.
- (7) If an Emergency Battery Device (EBD) is required, please contact your KONE Sales Professional for further details regarding dimensions J and L.
- (8) Contact your local KONE Sales Professional regarding local code variations when utilizing the integral and remote closet options.
- (9) If utilizing KONE Polaris™ destination control system or KONE Access™, contact your local KONE Sales Professional regarding control space size requirements.

Plan views



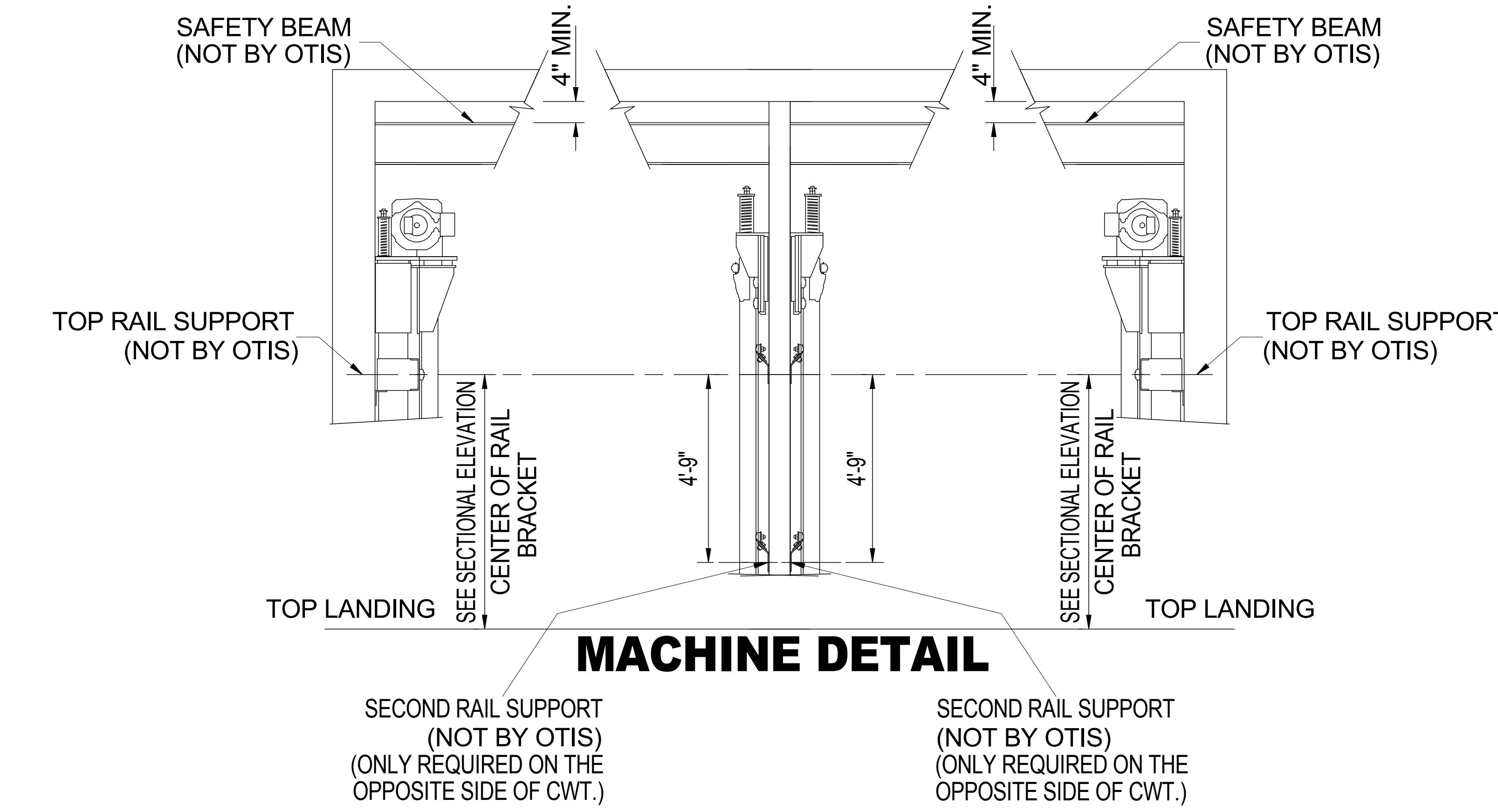
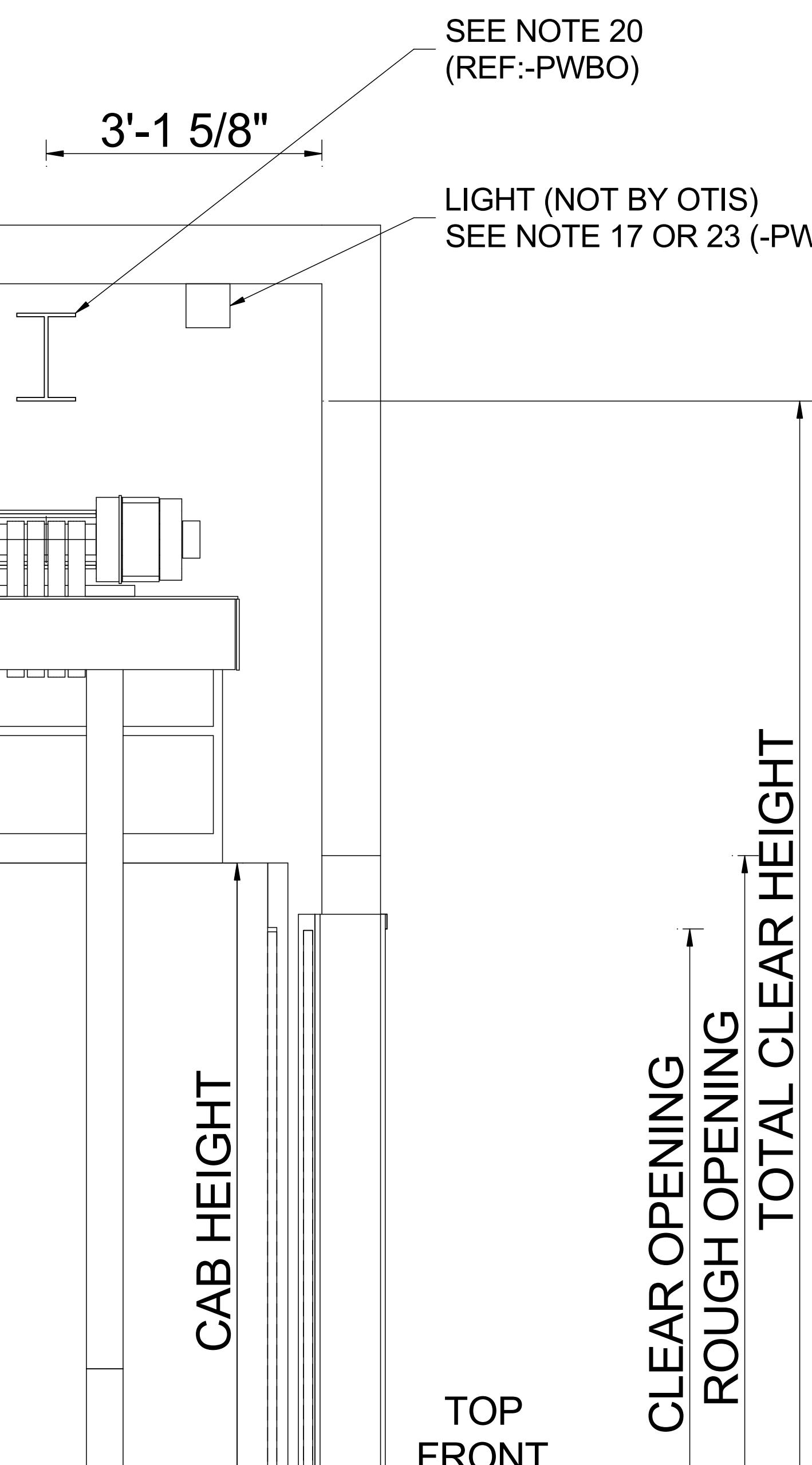
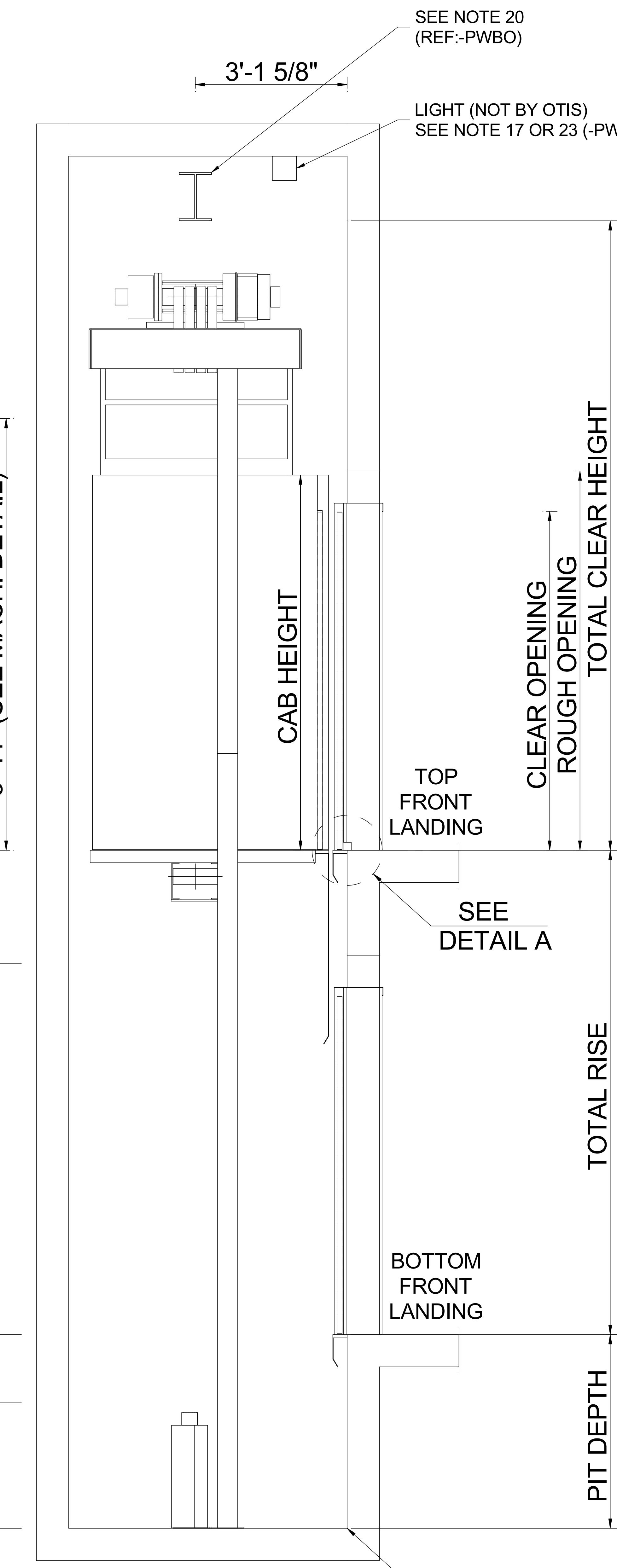
Section view



Adjacent or
Remote Control Room
(option 2)

SECTIONAL ELEVATION
FOR MAX. SPACING BETWEEN INSERTS SEE RAIL FORCE DETAIL

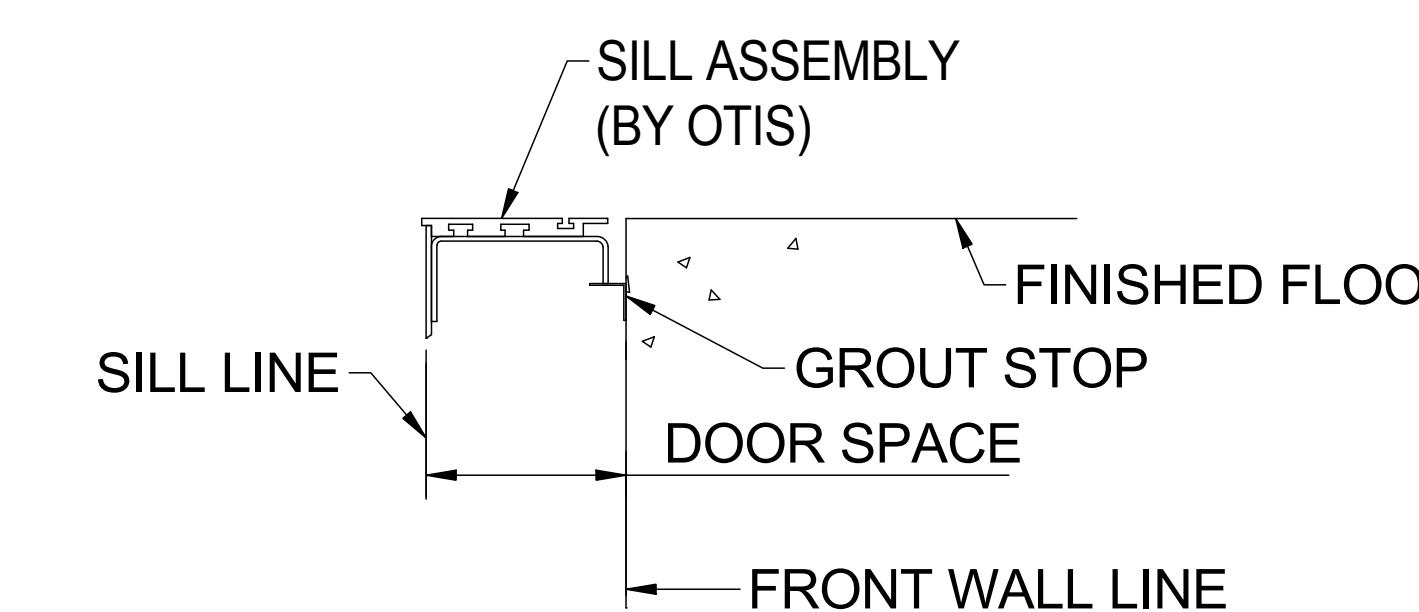
ADDITIONAL RAIL BRACKET SUPPORT
(SEE NOTE H)
1'-0" [305] BOTTOM
RAIL SUPPORT



<= 2007 CODE YEAR		> 2009 CODE YEAR	
CAB HEIGHT	CAB HEIGHT	CAB HEIGHT	CAB HEIGHT
7'-9"	9'-9"	7'-9"	9'-9"
MIN RISE		10'-2"	
MAX RISE		80'-0"	
MIN. TOTAL CLEAR HEIGHT	13'-0"	15'-0"	12'-10"
MAX. TOTAL CLEAR HEIGHT	MIN CLEAR HEIGHT + 2'-0" [609.6mm]		
PIT DEPTH	IF A17.7 IS ADOPTED THEN PIT DEPTH = 4'-0" IF A17.7 IS NOT ADOPTED THEN PIT DEPTH = 5'-0"		

- MINIMUM FLOOR HEIGHT IS 8'-3" [2515mm] with 7'-0" [2134] ENTRANCE
- MAXIMUM FLOOR HEIGHT IS 20'-0"
- HOISTWAY LIGHT SWITCH LOCATED 3'-0" [914] ABOVE TOP LANDING COORDINATE WITH OTIS 8'-0" [2438] ENTRANCE AVAILABLE WITH 9'-9" [2819] CAB.
- IF HOISTWAY VENTILATION IS REQUIRED, THE LOCATION CANNOT BE LOCATED ABOVE OR NEAR THE MACHINE OF THE ELEVATOR SYSTEM.

STANDARD WORKING RANGES



DETAIL "A" SILL SUPPORT

ADEQUATE SUPPORT AT ALL FASTENING POINTS OF ENTRANCE ASSEMBLY REQUIRED. MUST WITHSTAND A HORIZONTAL PULL-OUT FORCE OF 140 LBS. @ EA. FASTENING POINT (8 @ EA. ENTRANCE) INCLUDING SUPPORT FOR CENTER SILL SUPPORT BRACKET (NOT BY OTIS).

NOTE H
DEPENDING ON THE BUILDING CONSTRUCTION, AN ADDITIONAL RAIL BRACKET SUPPORT MAY BE REQUIRED LOCATED 14'-0" [4267] ABOVE THE PIT FLOOR. CONTACT YOUR LOCAL SALES REPRESENTATIVE FOR ASSISTANCE.

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**Gen2® 2100 #
150 F.P.M.**

CAR TYPE = PASSENGER CONTROLLER LOCATION = ROOM
SEISMIC = ZONE 0 GLASS BACK CAR = N

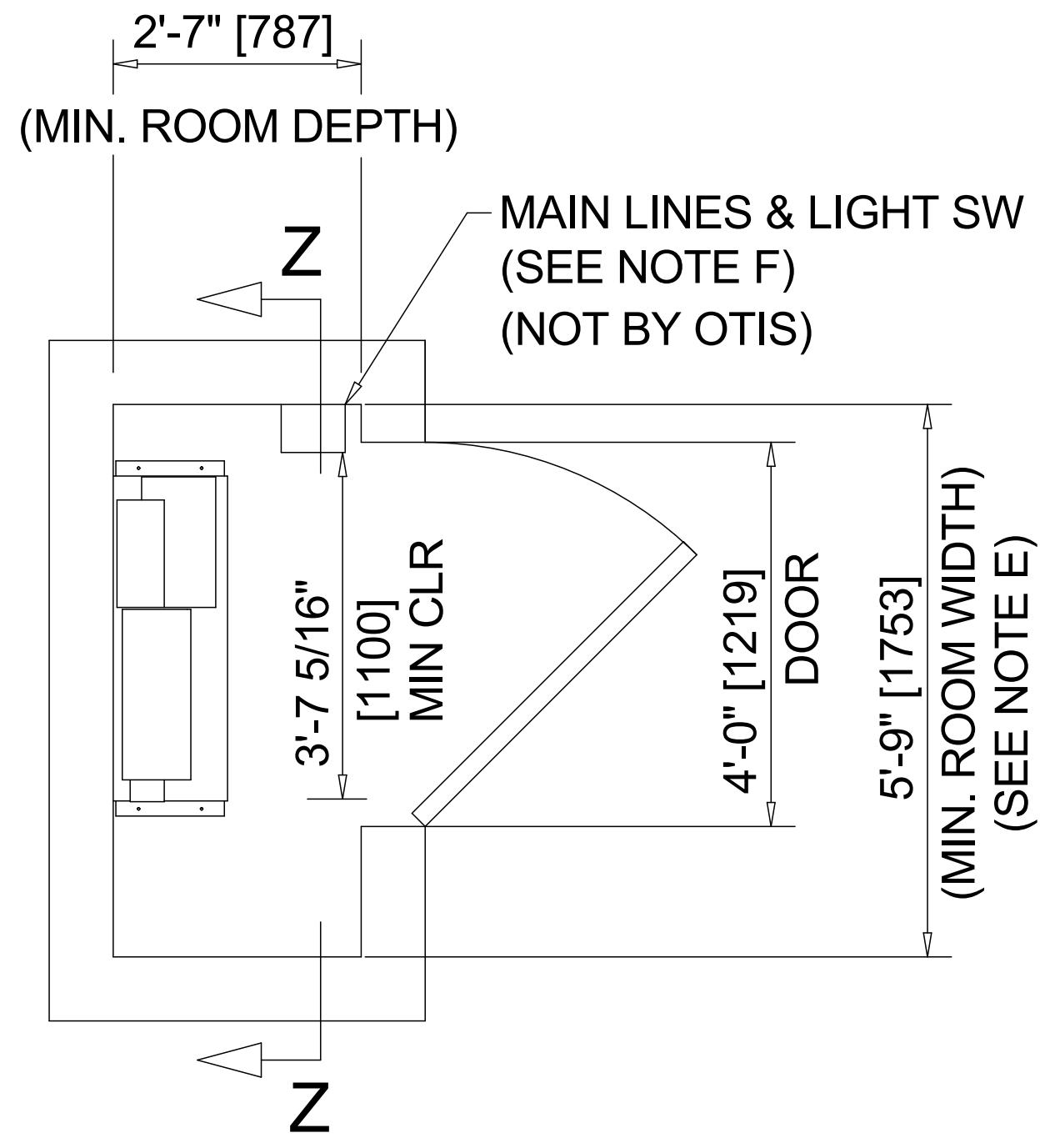


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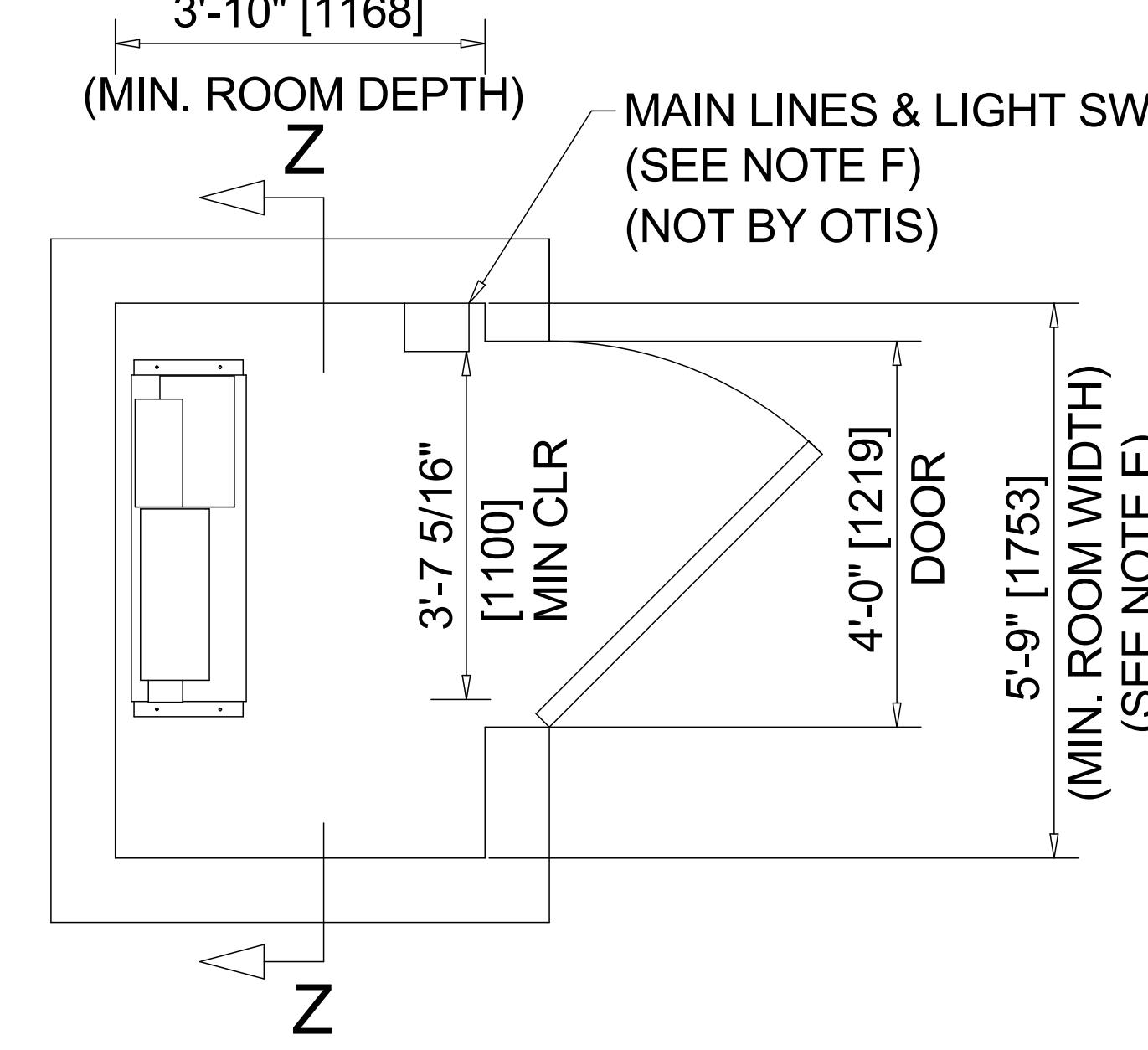
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DWG. NO.: G2S 2100-EL

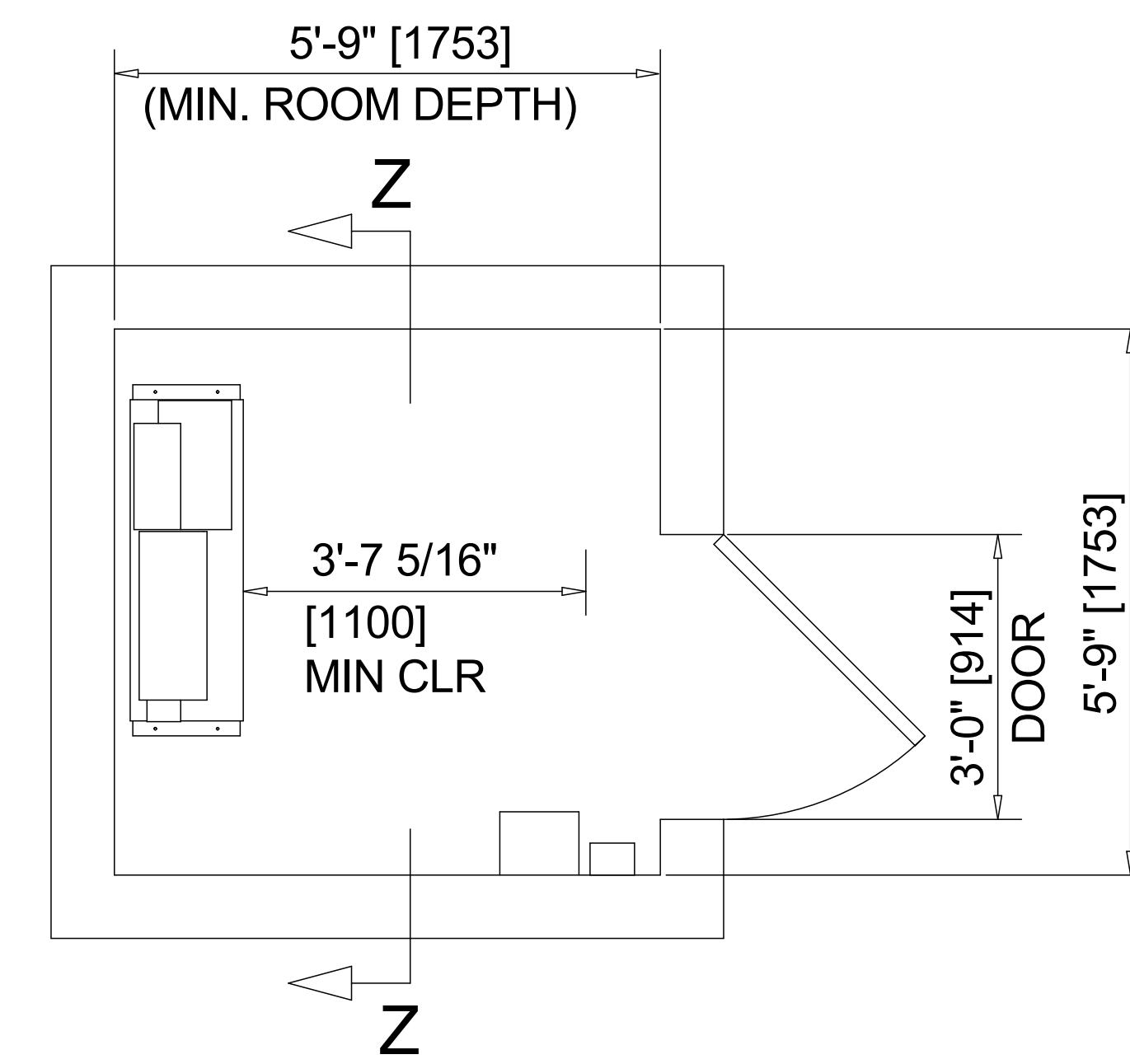
BUILDING
LOCATION
CONT. WITH
OWNER
ARCHT.
CONTRACT NO.



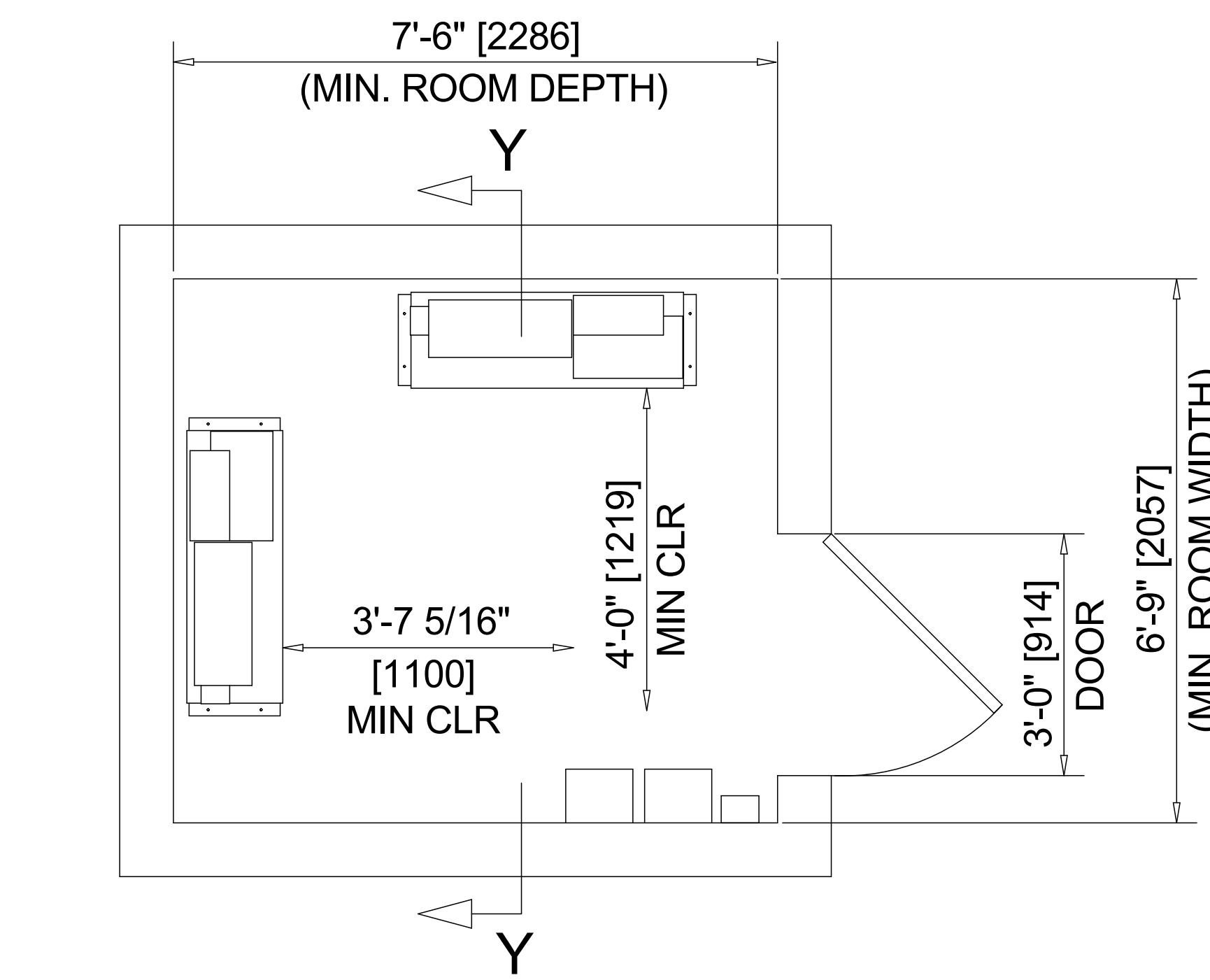
MINIMUM CONTROL
SPACE REQUIREMENTS
ONE CAR
WITHOUT AUTOMATIC
RECOVERY OPERATION



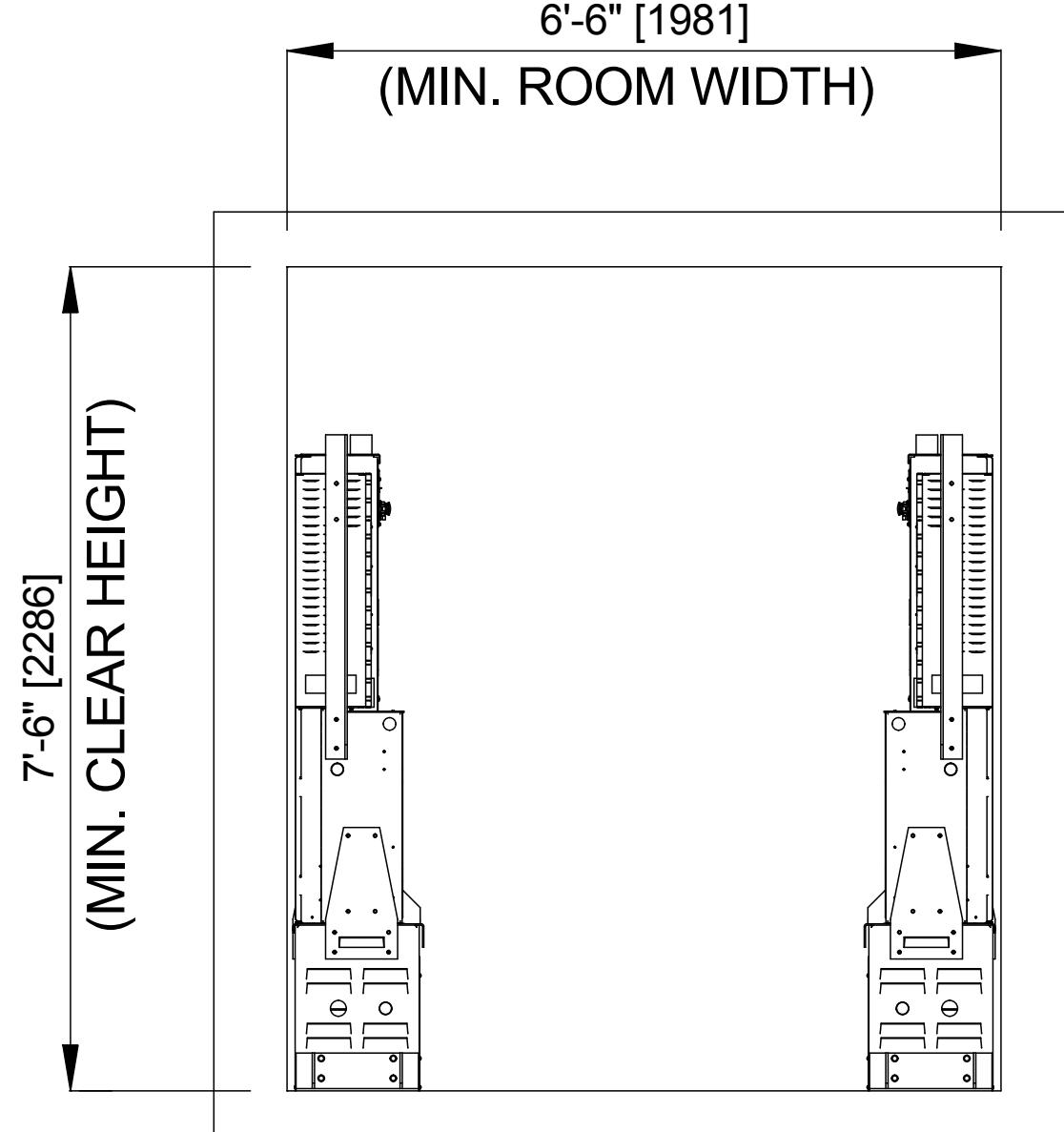
MINIMUM CONTROL
SPACE REQUIREMENTS
ONE CAR
WITH AUTOMATIC
RECOVERY OPERATION



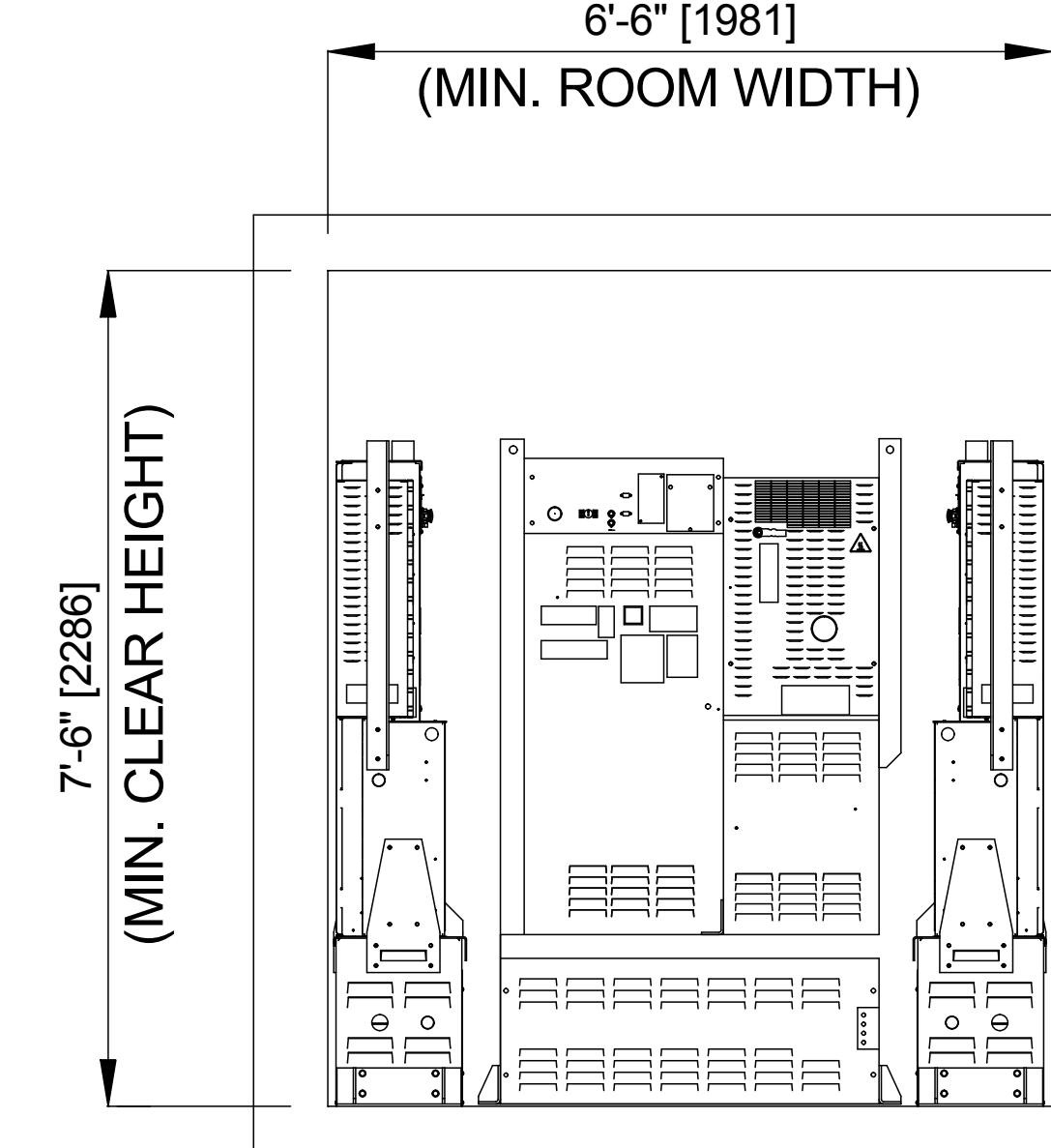
MINIMUM CONTROL
ROOM REQUIREMENTS
ONE CAR



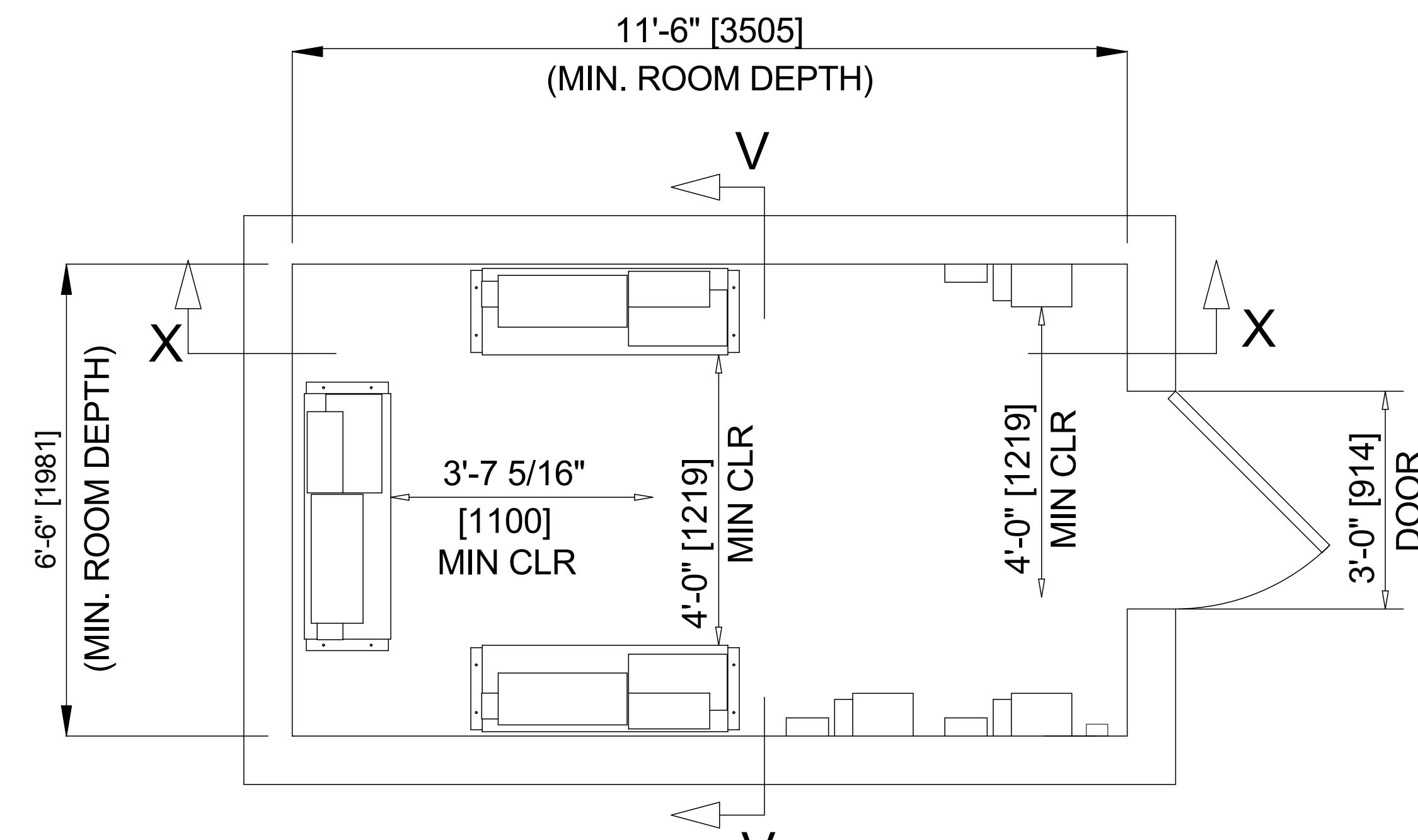
MINIMUM CONTROL
ROOM REQUIREMENTS
TWO CARS



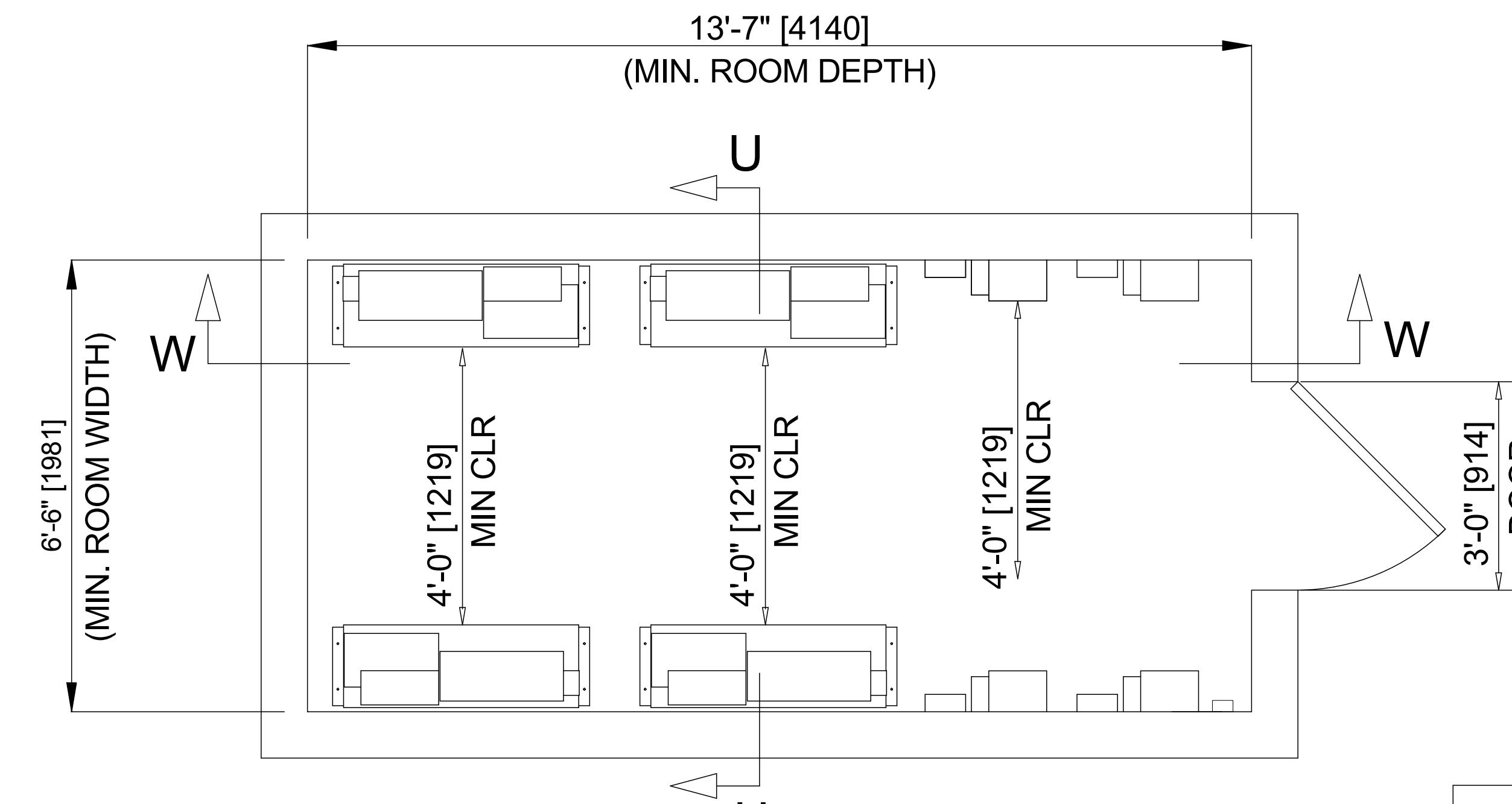
SECTION U - U



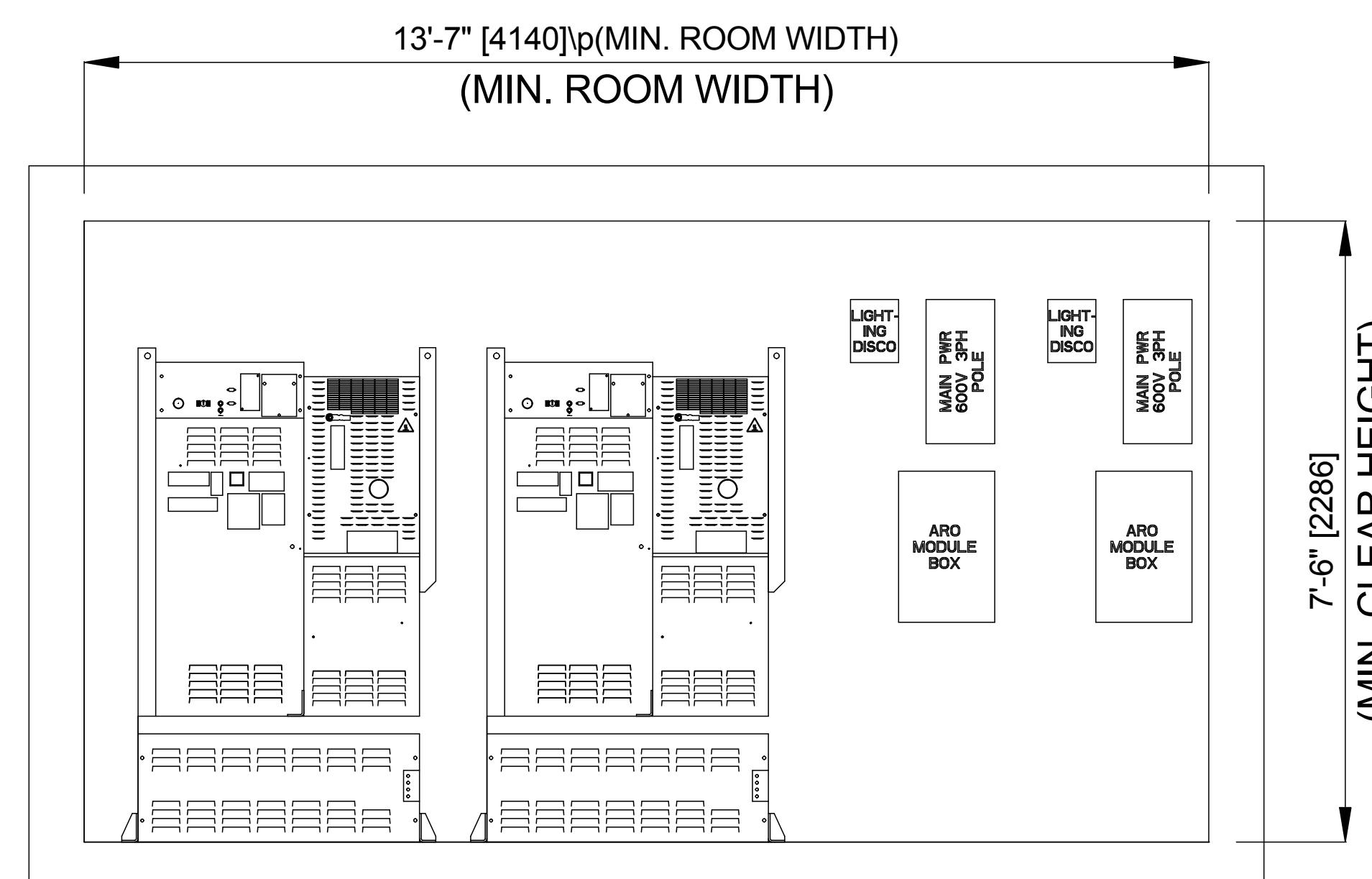
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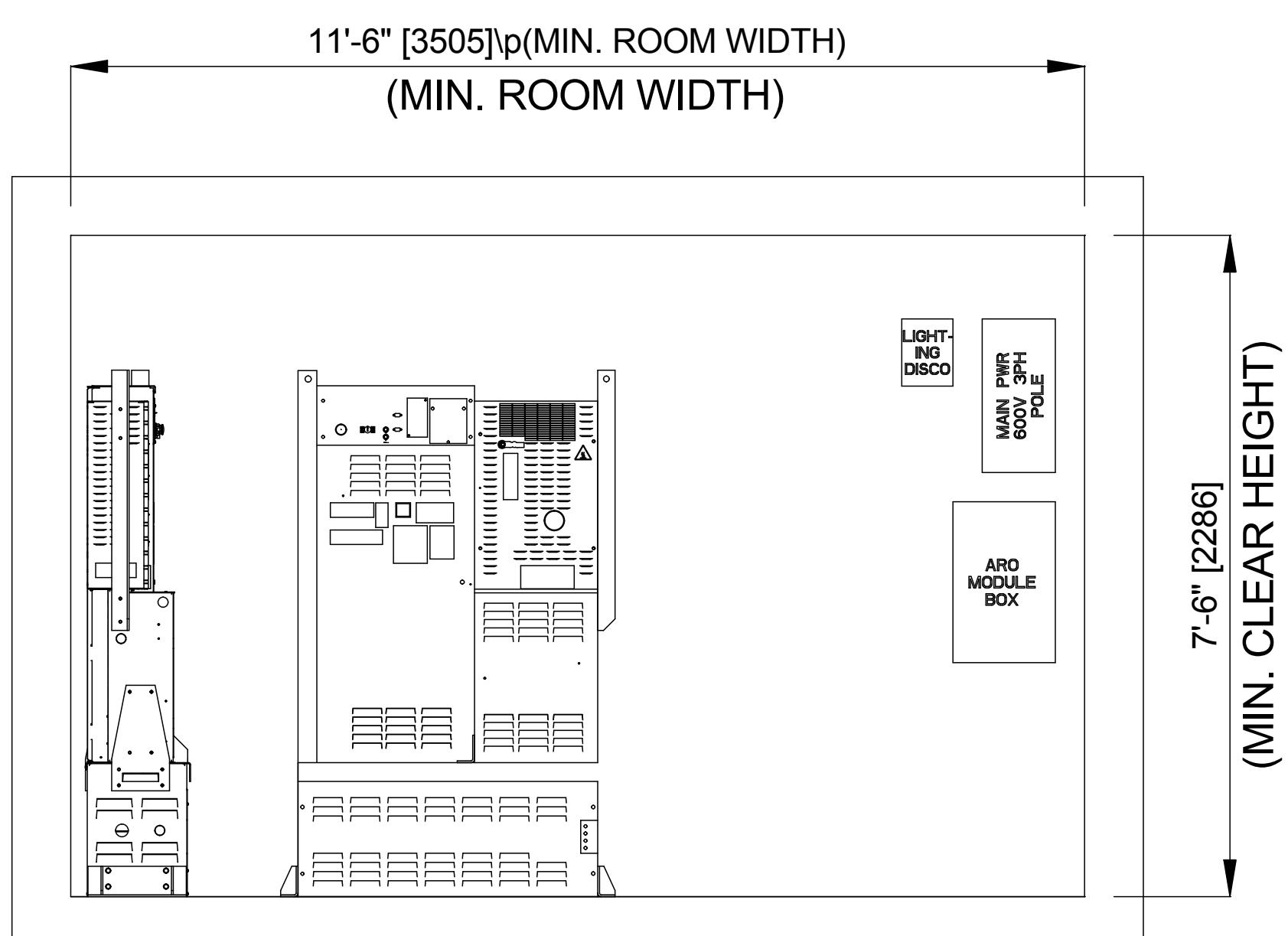
MINIMUM CONTROL
ROOM REQUIREMENTS
THREE CARS



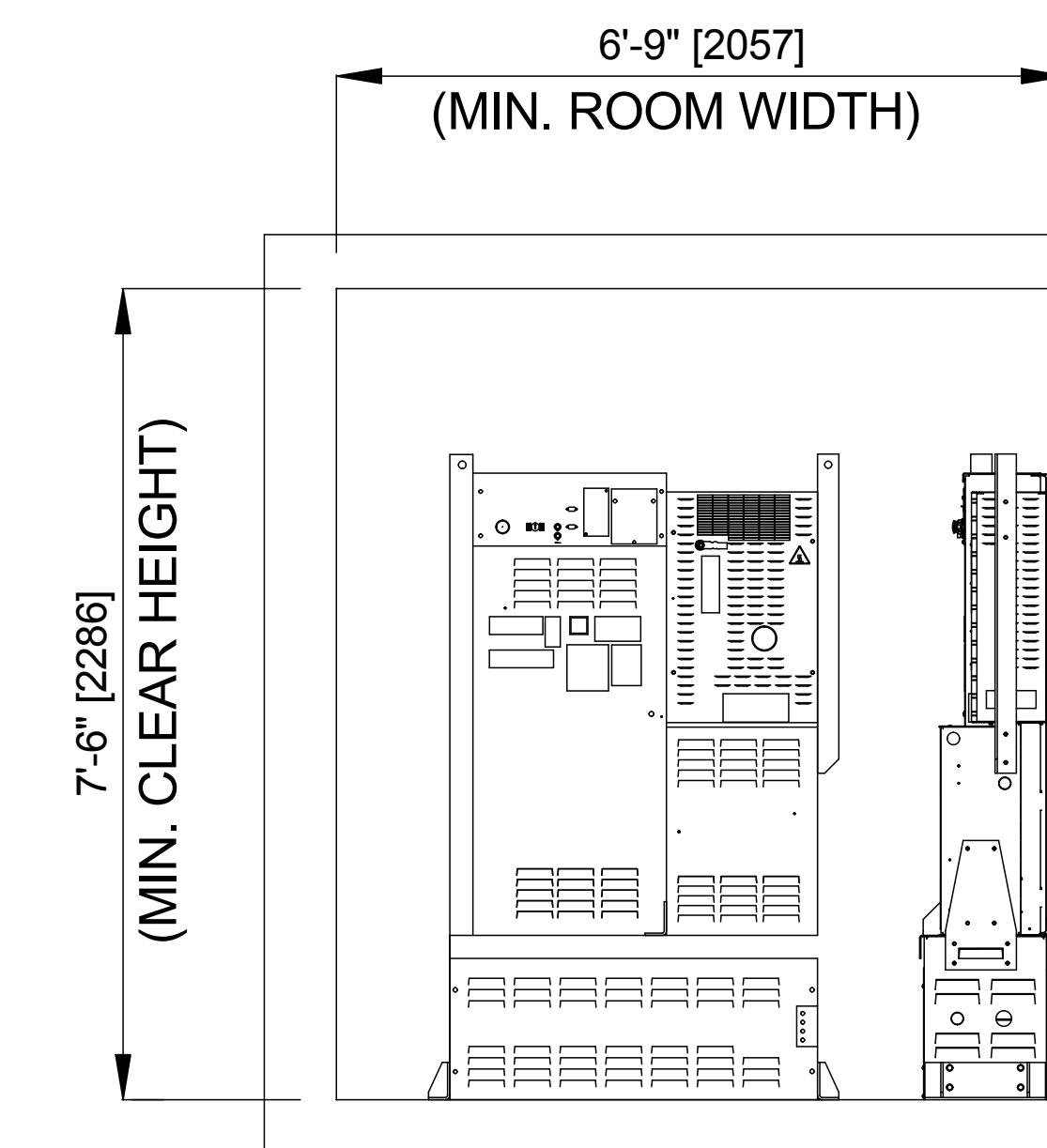
MINIMUM CONTROL
ROOM REQUIREMENTS
FOUR CARS



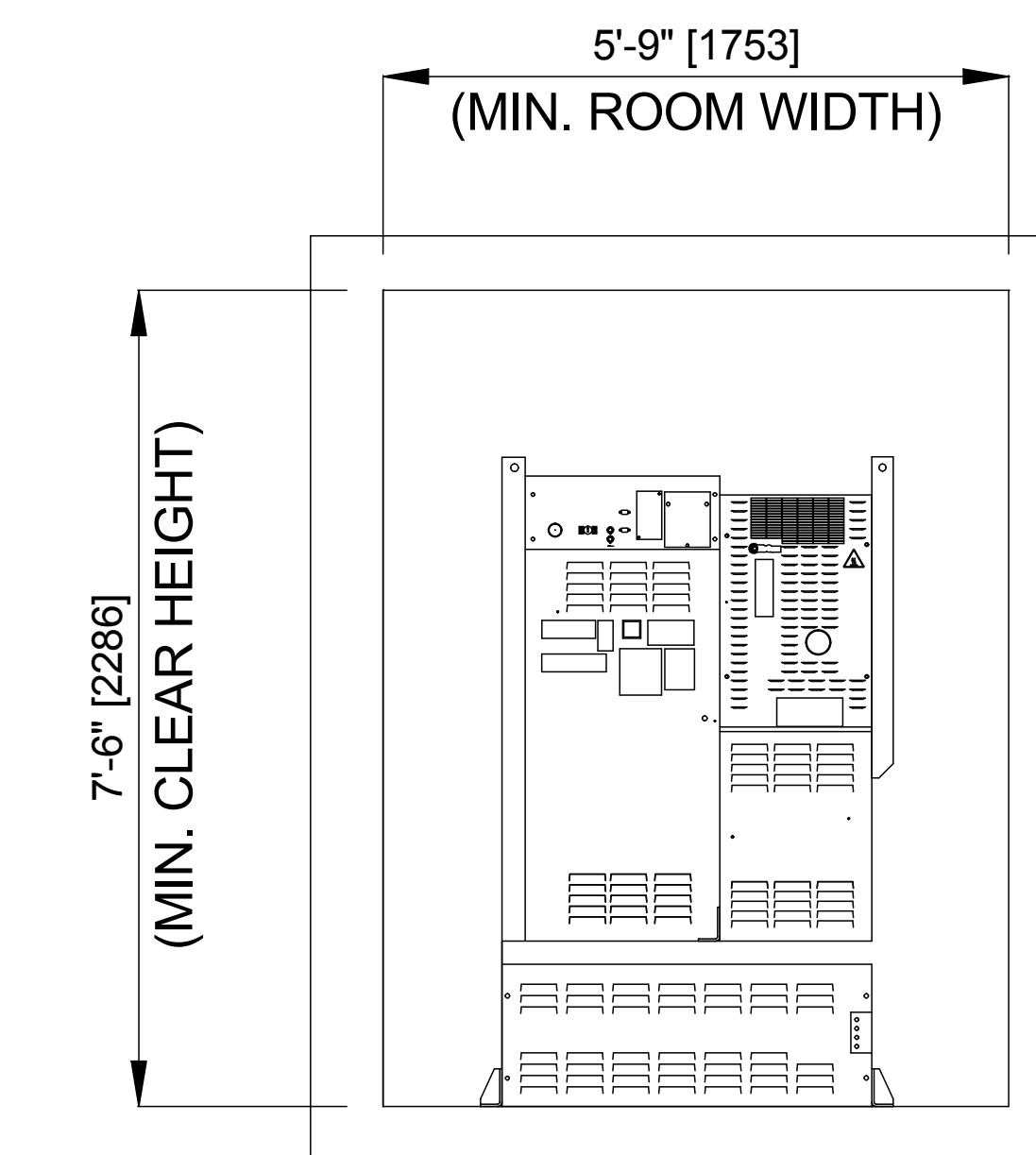
SECTION W - W



SECTION X - X



SECTION Y - Y



SECTION Z - Z

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**Gen2® 2100 #
150 F.P.M.**

CAR TYPE = PASSENGER CONTROLLER LOCATION = ROOM
SEISMIC = ZONE 0 GLASS BACK CAR = N

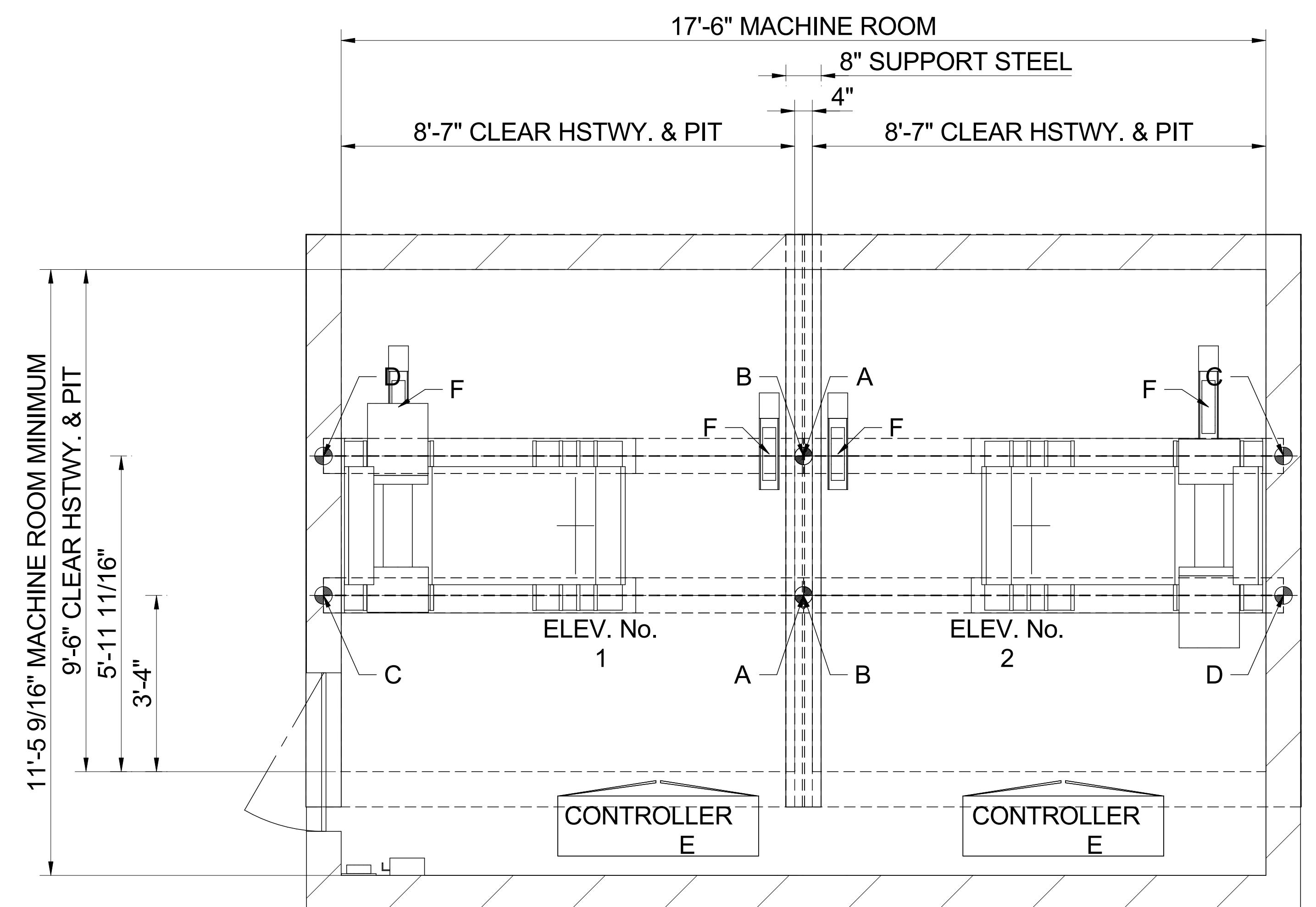
OTIS
A United Technologies Company

REVISION DATE: 3/2/2018

SHEET 4 OF 4

DWG. NO.: **G2S 2100-CR**

BUILDING
LOCATION
CONT. WITH
OWNER
ARCHT.
CONTRACT NO.



BUILDING REACTIONS	
	KIPS
	STATIC DYNAMIC
A	7.26 10.67
B	8.47 12.54
C	11.08 16.96
D	11.32 17.25
E	0.37 0.37
F	1.2 1.9
MACH. BEAM SIZE	W10-39 x 113"LG

SLAB TEMPLATE No.	
ELEV. No.	TEMPLATE:
1	AAA27EH252
2	AAA27EH236

DESIGN CRITERIA FOR BUILDING IMMEDIATE SUPPORTS

$$1. \text{ STATIC CONDITION: } \Delta_{\text{ALLOW}} = \frac{\text{SPAN}}{1666}$$

$$2. \text{ DYNAMIC CONDITION: } \text{STRESS}_{\text{ALLOW.}} = 80\% \text{ OF THE PERMITTED STRESSES FOR STATIC LOADS.}$$

MACHINE PLAN VIEW

SUITABLE MACHINE ROOM WITH MINIMUM CLEAR HEIGHT OF 7'-6".
MINIMUM MACHINE ROOM ENTRY DOOR 3'-0" X 7'-0"
(NOT BY OTIS) (SEE NOTE 16).

MACHINE SIZE	
MACHINE LENGTH	5'-3 3/4"
MACHINE WIDTH	4'-10 1/4"
MACHINE HEIGHT	3'-4 1/16"

APPROVAL
THIS ARRANGEMENT AND
SUPPLEMENTARY NOTES APPROVED
SIGNED: _____ DATE: _____

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Gen2® 4500 # 350 F.P.M.
CAB TYPE = VENERCB COUNTER WEIGHT SAFTEY = Y
SEISMIC = ZONE4 GLASS BACK CAR = N



A United Technologies Company

REVISION DATE: SHEET 3 OF 4

DWG. NO.: GEN4535H-EL

BUILDING
LOCATION ,
CONT. WITH
OWNER
ARCHT.
CONTRACT NO.