

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.

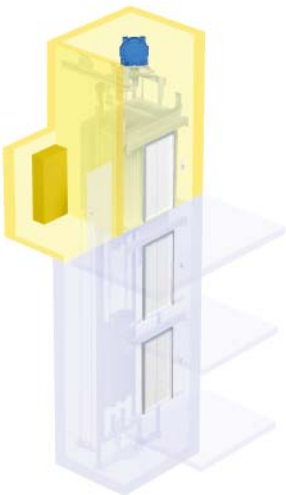
Machine room space savings*

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.



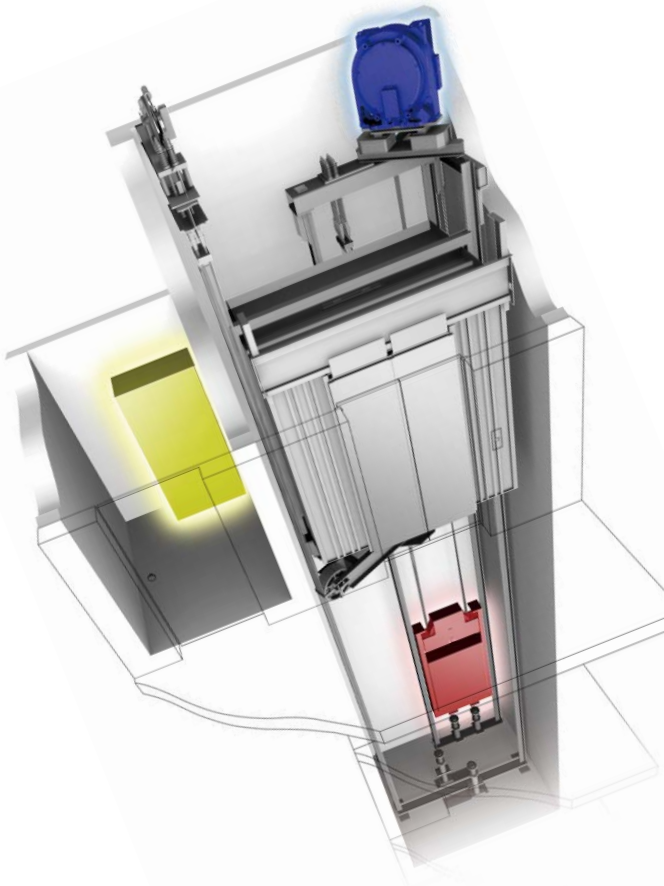
GPM-IIIU
(Conventional)



DIAMOND TRAC

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.



Profile

Design

Functions

Spec.

Info.

BASIC SPECIFICATIONS

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	200 350	2000	SS	Rear	5'-8"	4'-3 3/4"	3'-0"	7'-6"	6'-11"
	200 350 400 500	2500	SS or CO		6'-8"	4'-8 3/4"	3'-6"	8'-6"	7'-4"
		3000				8'-0"			
		3500				7'-11 1/4"			
Front & Rear				Side	5'-8 3/16"		9'-7"		
Front	200 350	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.)		PD (ft./in.)*5,7	OH*6 (ft./in.)	
Front	2000	5'-5 1/2"	Canopy height 8'-0"	Canopy height 9'-6"	5'-11 1/2"	14'-6"	15'-11 11/16"
	2500						
	3000						
	3500						
Front & Rear	4000	5'-8"	15'-1"	16'-6 11/16"	6'-1"	15'-5"	16'-10 11/16"

<Rated Speed 400FPM and 500FPM>

Opening	Capacity (lbs)	Minimum hoistway dimensions*3					
		Rated speed					
		400fpm			500fpm		
		PD (ft./in.)*5,7	OH*6 (ft./in.)		PD (ft./in.)*5,7	OH*6 (ft./in.)	
Front	2500	6'-3"	15'-3"	16'-8 11/16"	7'-5"	16'-1"	17'-6 11/16"
	3000						
	3500						
Front & Rear		6'-5"			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.mea.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.mea.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		
Front & Rear	3500	19'-6"	29'-5"
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)		Hoistway*10	Control panel
200	2000	7.5	12	21	7	3070	2730
	2500	9.5	15	26	8	3750	3240
	3000	11.9	18	30	9	3580	3750
	3500	13.3	20	35	10	3750	4270
	4000	16.1	23	40	12	4270	4780
350	2000	13	20	35	10	3750	4270
	2500	17.4	25	43	13	4100	5120
	3000	20.1	30	52	15	4440	5970
	3500	24.1	34	60	17	4950	7000
	4000	26.8	39	69	19	5970	8360
400	2500	20.1	28	49	14	2880	7730
	3000	22.8	34	59	17	3280	8970
	3500	26.8	39	69	19	3680	10210
500	2500	24.1	35	61	17	3380	9280
	3000	28.2	42	73	21	3890	10830
	3500	33.5	48	85	24	4390	12380

Notes

*8. 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".

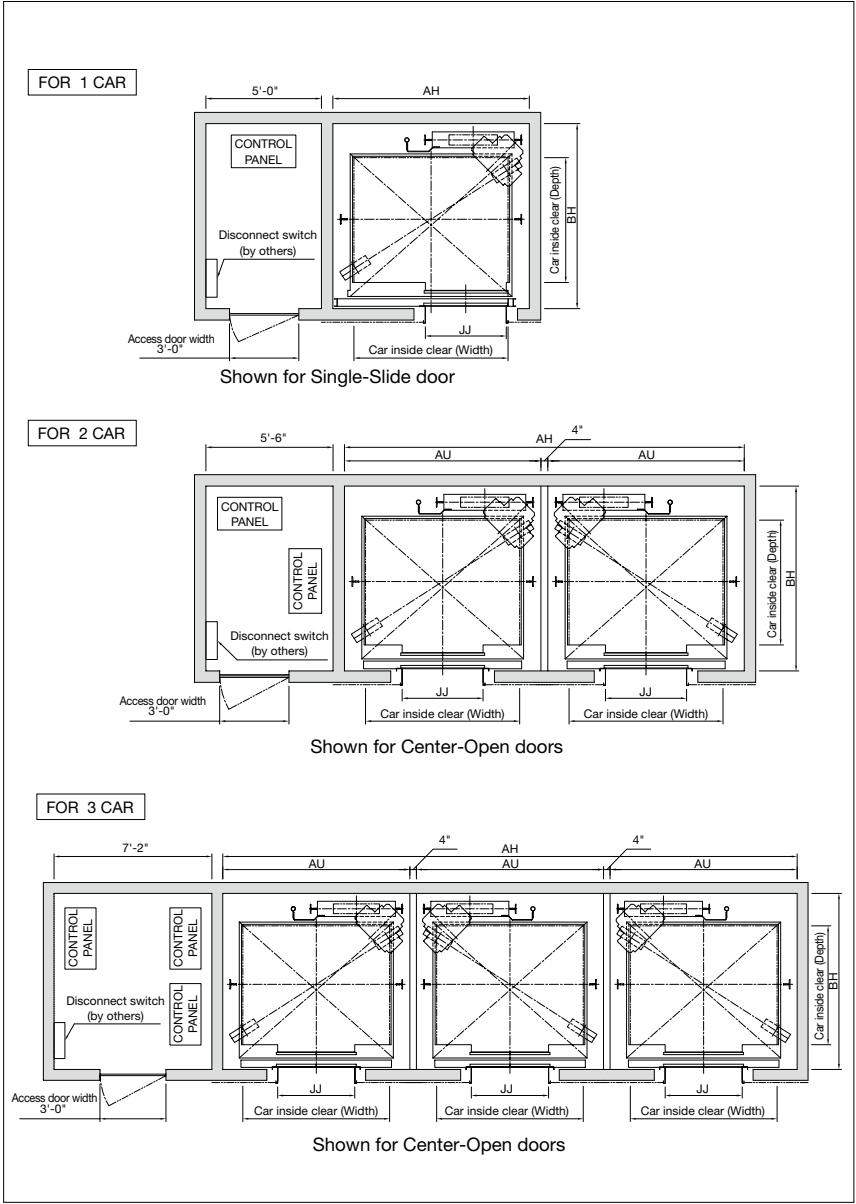
*9. If power supply voltage is other than 480V, FLU and FLAcc current are obtained by the following formulas.
FLU, FLAcc current (A) at E = (Current at 480V) x (480 / E) (E: Power supply voltage (V))

*10. Heat emitted from car lighting is included.

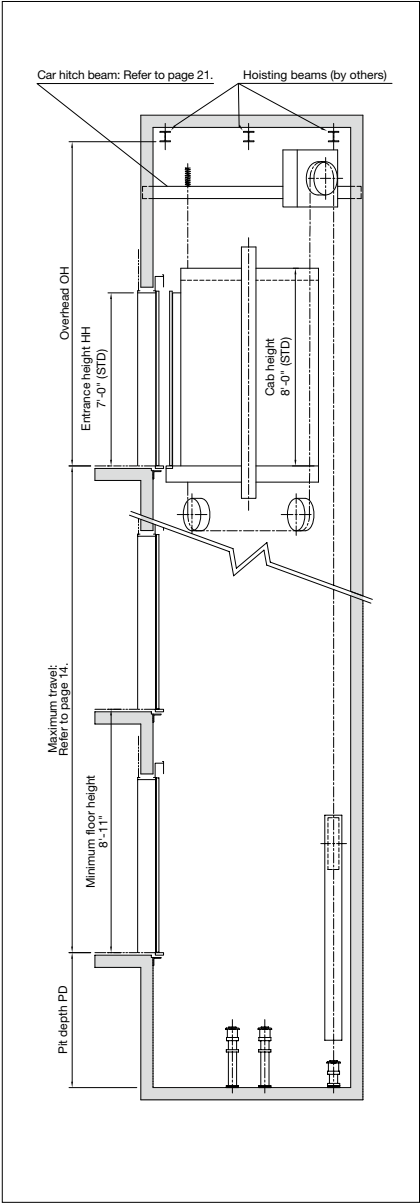
*11. Start / hour (time) is as follows.
Rated speed 200fpm: 120 times
Rated speed 350fpm: 150 times
Rated speed 400 and 500fpm: 180 times

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

Front Opening
Hoistway Plan (example)

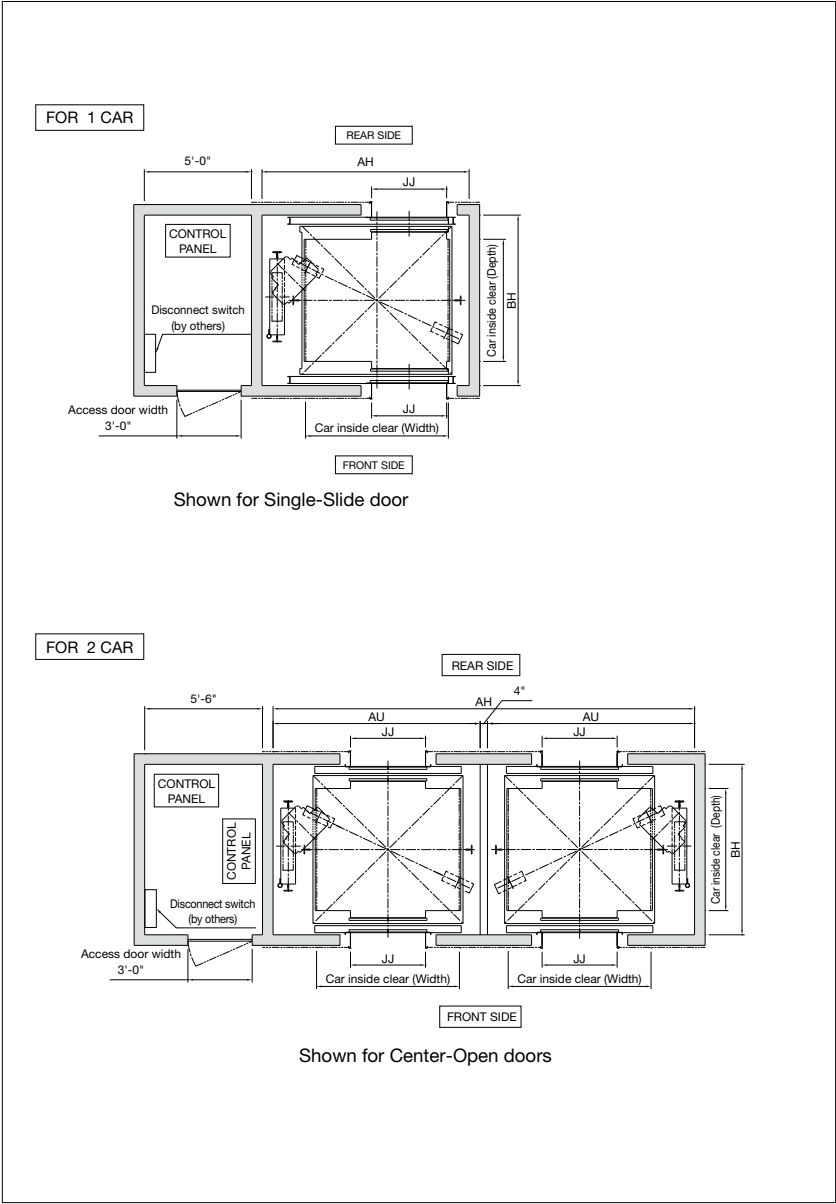


Hoistway Section

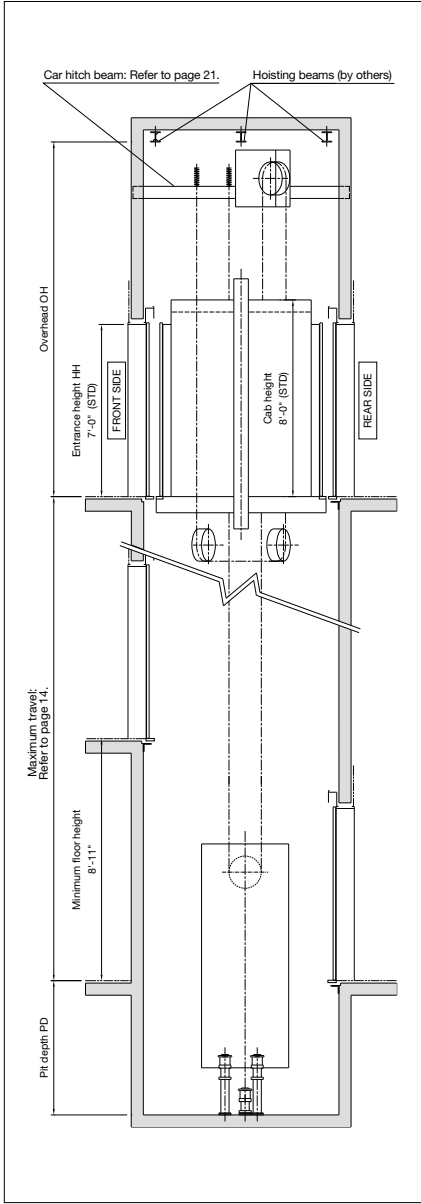


For passenger **CAPACITY: 3500lbs**

Front & Rear Opening
Hoistway Plan



Hoistway Section



BASIC SPECIFICATIONS

For service CAPACITY: 4000lbs ~ 5000lbs

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

<Rated Speed 200FPM and 350FPM>

Configu- ration	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				7'-11 1/4"			9'-8"
		5000				8'-6 1/4"			10'-3"
	Front & Rear	4500			5'-10"	8'-4 1/4"	4'-6"	8'-9 1/2"	10'-1"
		5000			5'-8"	8'-0"	4'-0"	8'-7 1/2"	10'-8 3/4"
					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>

Configu- ration	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.)	
Canopy height 8'-0"	Canopy height 9'-6"	Canopy height 8'-0"		Canopy height 9'-6"				
Service	Front	4000	5'-8"	15'-1"	16'-6 11/16"	6'-1"	15'-5"	16'-10 11/16"
		4500				6'-2" *8		
		5000	6'-1"					
	Front & Rear	4500	5'-8"	15'-2"	16'-7 11/16"	6'-1"	15'-10"	17'-3 11/16"
		5000						

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

Configu-ration	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"
		5000			

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 current (A) at E = (Current at 480V) x (480/ E) (E: Power supply voltage (V))

*11. Heat emitted from car lighting is included.

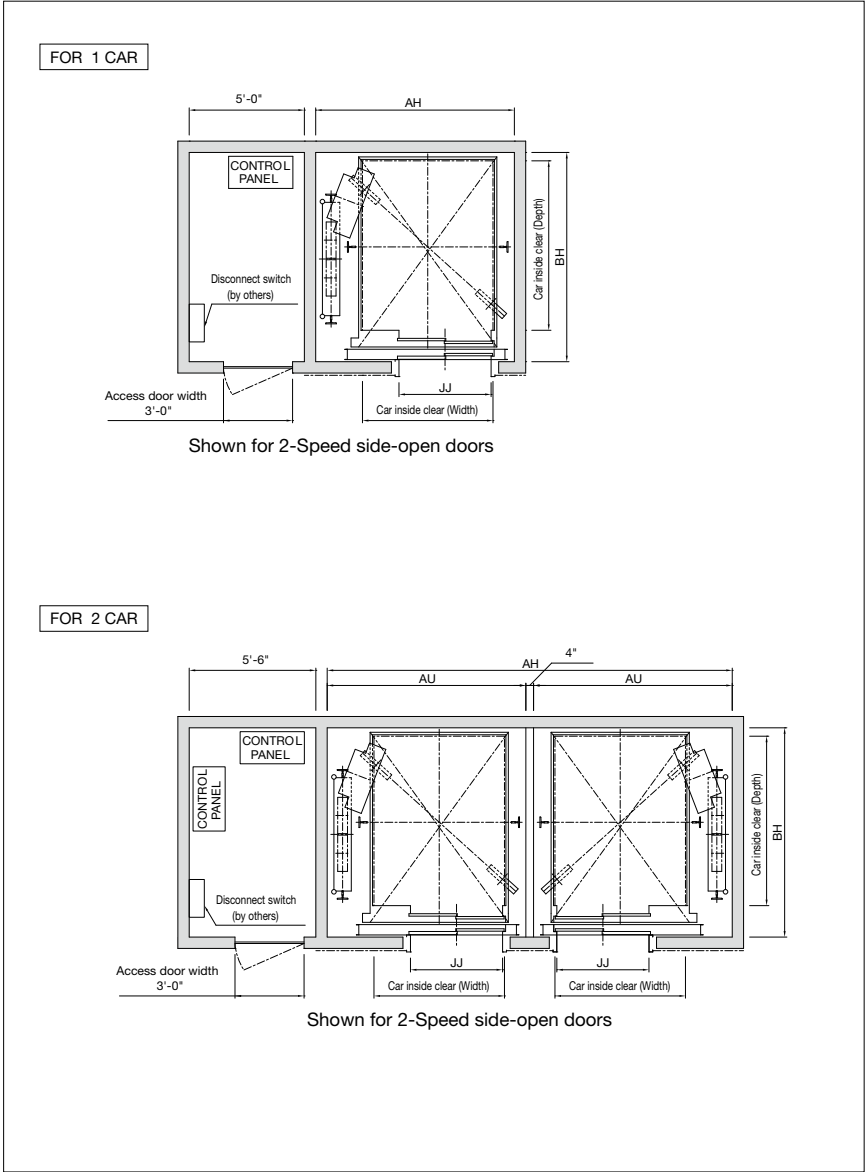
*12. Start / hour (time) is as follows.

Rated speed 200fpm: 120 times

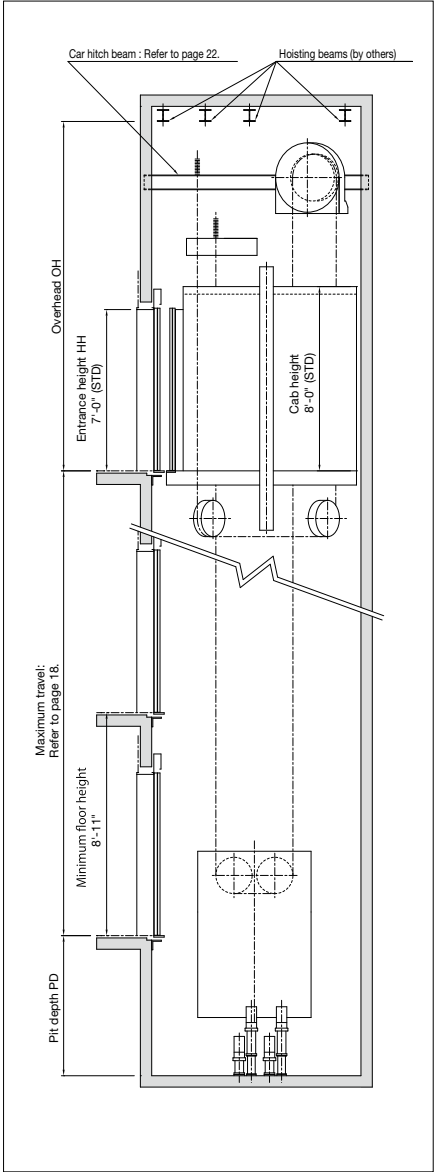
Rated speed 350fpm: 150 times

For service CAPACITY: 4000lbs ~ 5000lbs

Front Opening
Hoistway Plan (example)

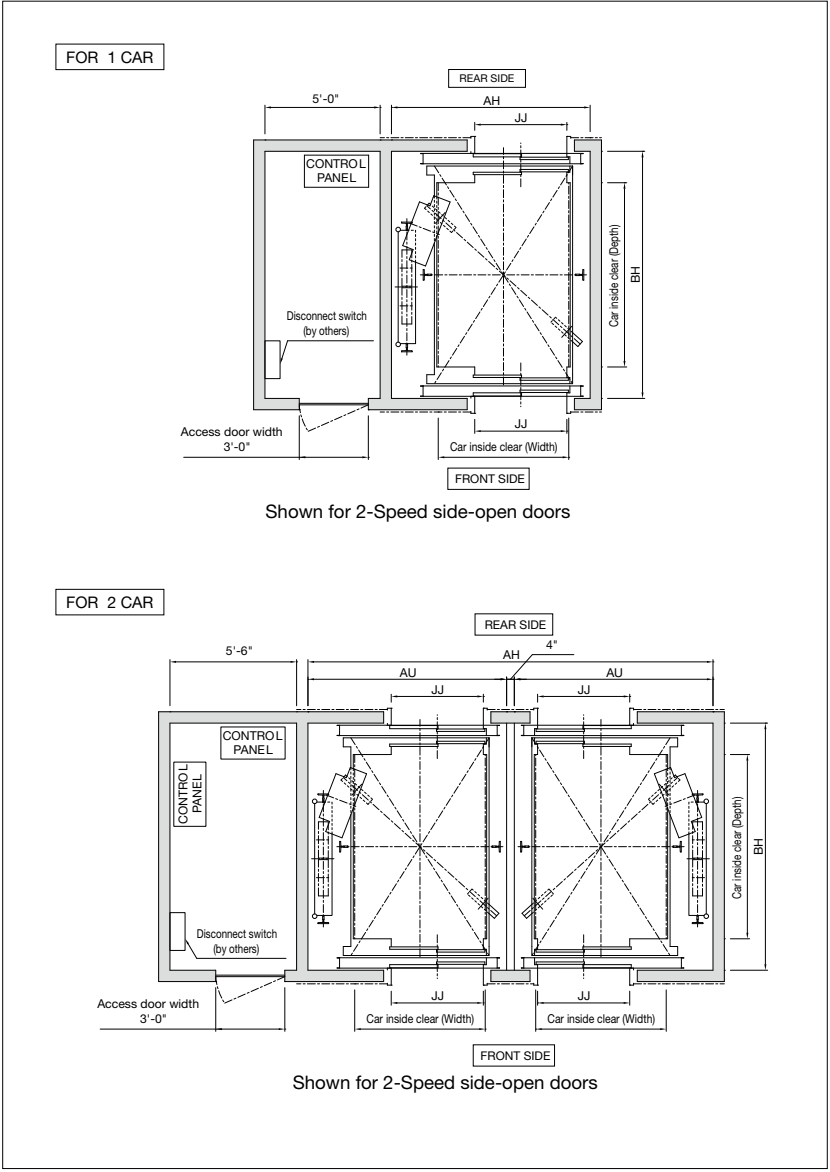


Hoistway Section

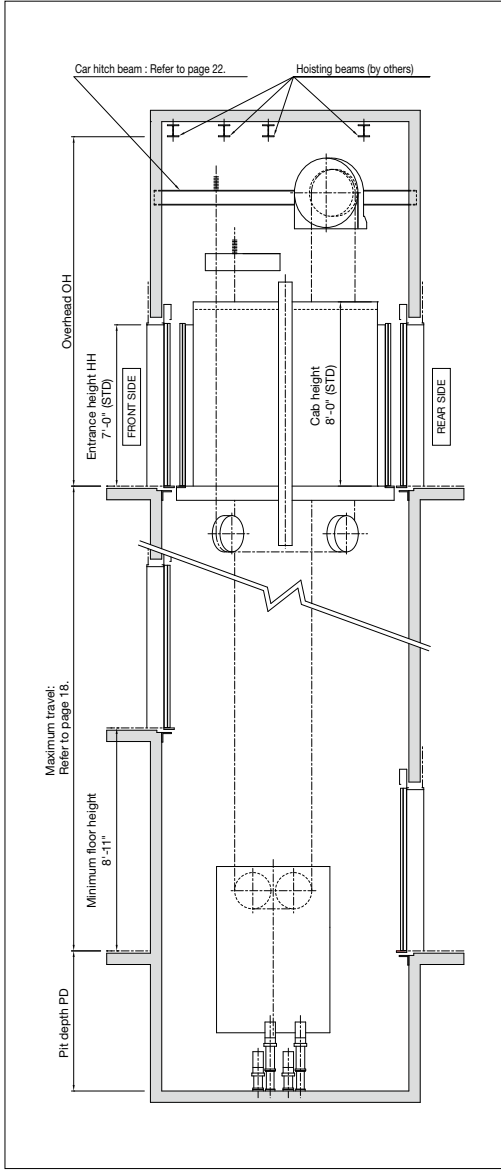


For service CAPACITY: 4500lbs ~ 5000lbs

Front & Rear Opening
Hoistway Plan (example)



Hoistway Section

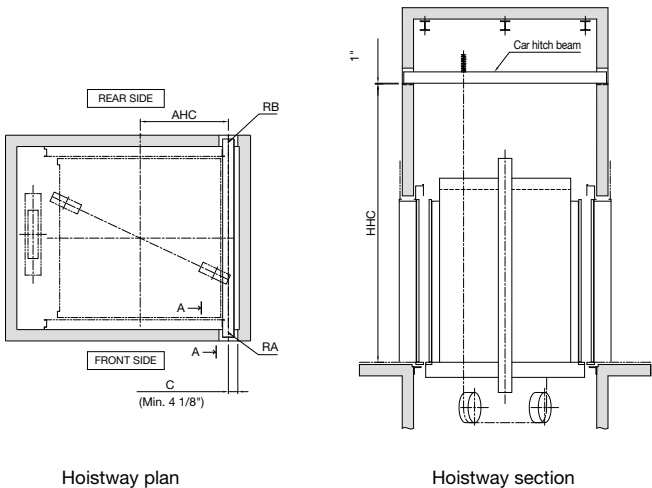


CAR HITCH BEAM

DIAMOND TRAC

For passenger

CAPACITY: 2000lbs ~ 4000lbs



Height of through hole for car hitch beam [HHC]*1

Rated speed (fpm)	HHC (ft./in.)	
	Capacity	
	2000lbs~3500lbs	4000lbs
200	11'-10 1/8"	12'-5 7/8"
350	12'-1 1/8"	12'-6 7/8"
400	12'-10 1/8"	-
500	13'-7 1/8"	-

*1: The HHC dimensions are obtained when canopy height = 8'-0".

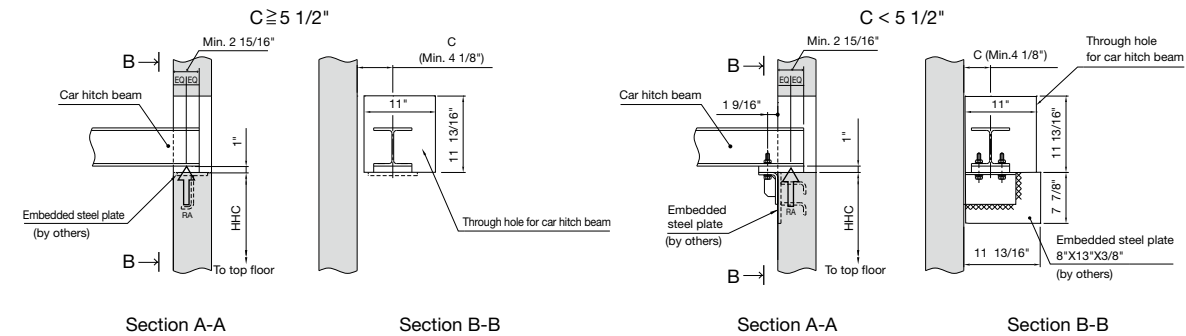
Reaction loads <Rated Speed 200FPM and 350FPM>

Opening	Capacity (lbs)	RA (lbs)		RB (lbs)	
		Static	Dynamic	Static	Dynamic
Front	2000	3200	6300	900	1800
	2500	3900	7500		
	3000	4100	7900	1200	2300
	3500	4500	8800		
Front & Rear	3500	3900	7700	1600	3000
Front	4000	5000	9900		3400

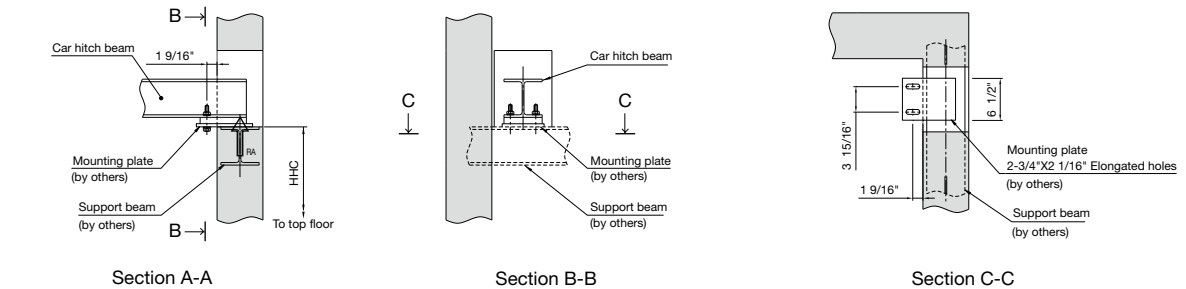
<Rated Speed 400FPM and 500FPM>

Opening	Capacity (lbs)	RA (lbs)		RB (lbs)	
		Static	Dynamic	Static	Dynamic
Front	2500	3900	7700		
	3000	4300	8600	1200	2300
	3500	4500	9300		
Front & Rear	3500	4100	7900	1600	3200

For Concrete and Masonry Wall Construction

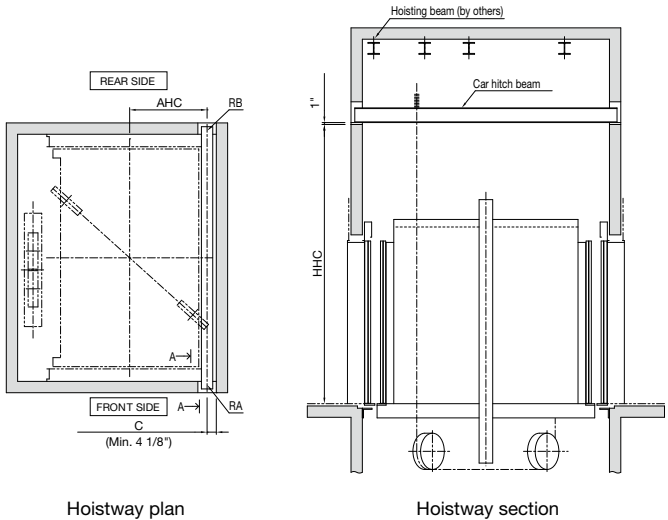


For Dry Wall Construction



For service

CAPACITY: 4000lbs ~ 5000lbs



Height of through hole for car hitch beam [HHC]*1

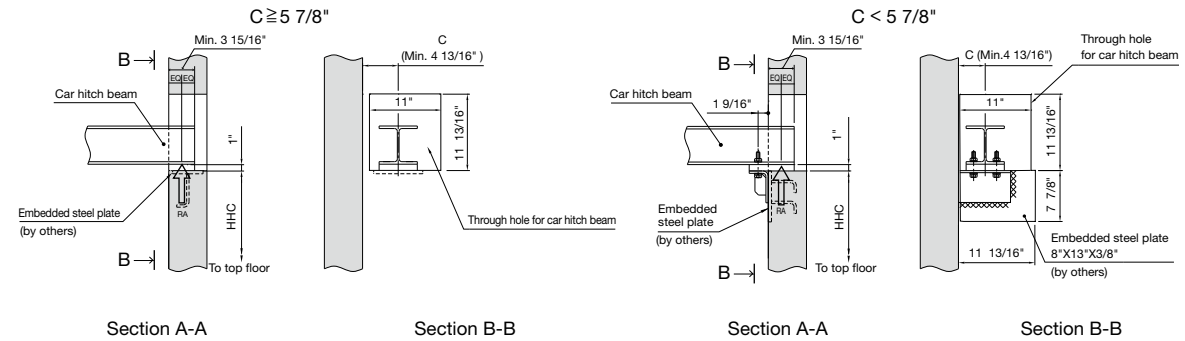
Rated speed (fpm)	HHC (ft./in.)
200	12'-5 7/8"
350	12'-6 7/8"

*1: The HHC dimensions are obtained on condition that:
A. Canopy height = 8'-0"
B. Travel ≤ 98'-5"

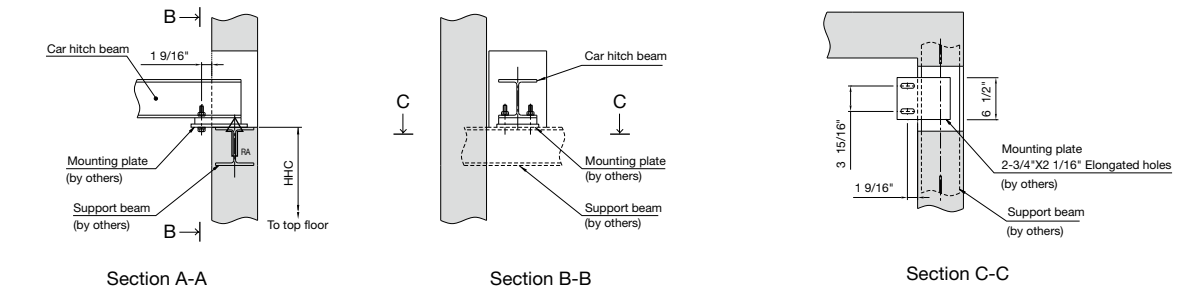
Reaction loads

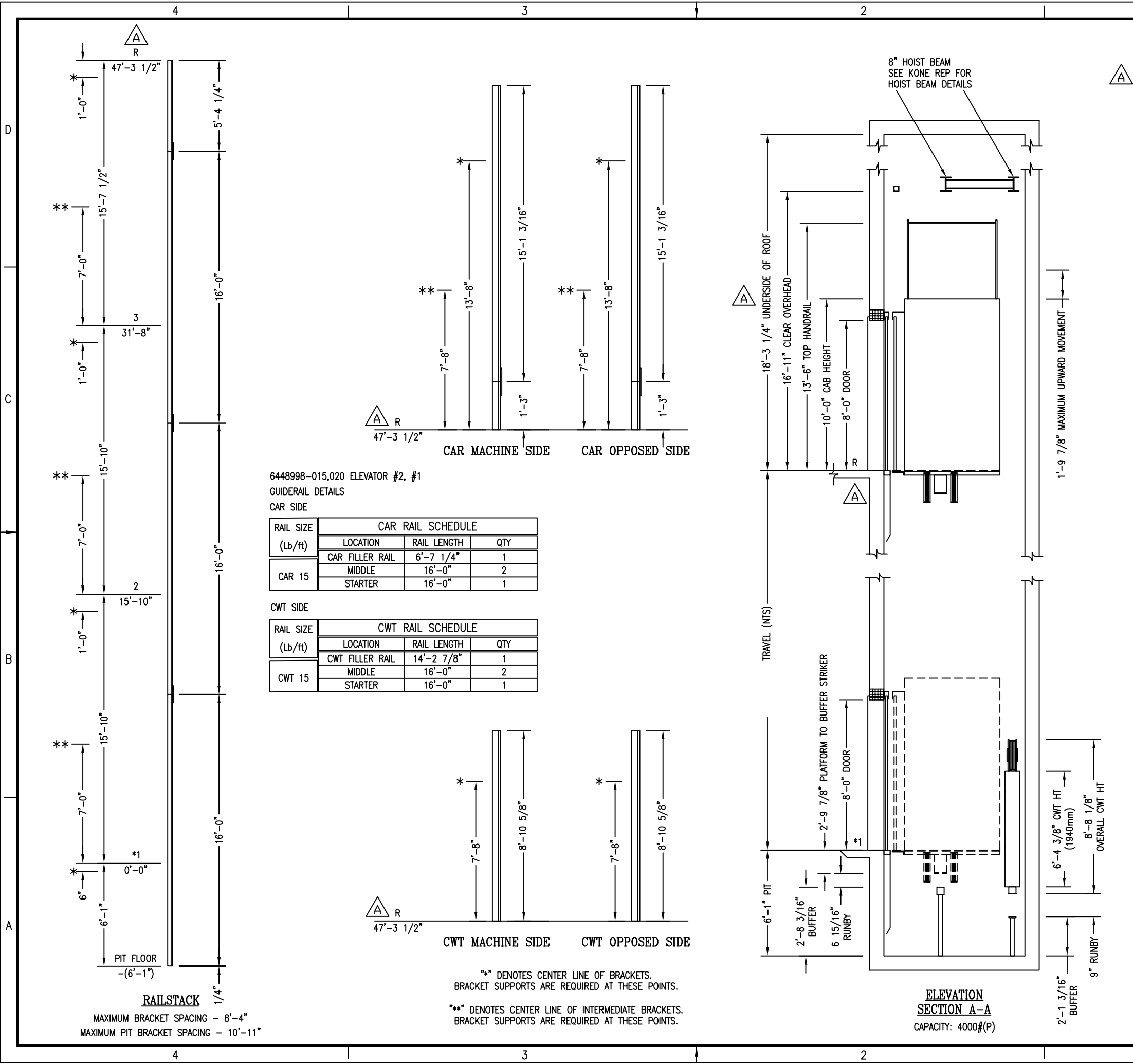
Opening	Capacity (lbs)	CWT Location	RA (lbs)		RB (lbs)	
			Static	Dynamic	Static	Dynamic
Front	4000	Side	5000	9900	1600	3000
	4500		5200	10200	1400	2700
	5000		5900	11500	1800	3600
Front & Rear	4500		5000	9900	1600	3000
	5000		5900	11500	1800	3600

For Concrete and Masonry Wall Construction



For Dry Wall Construction





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

1. NO CHANGES MADE

1. FLOOR MARK UPDATED
2. 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:

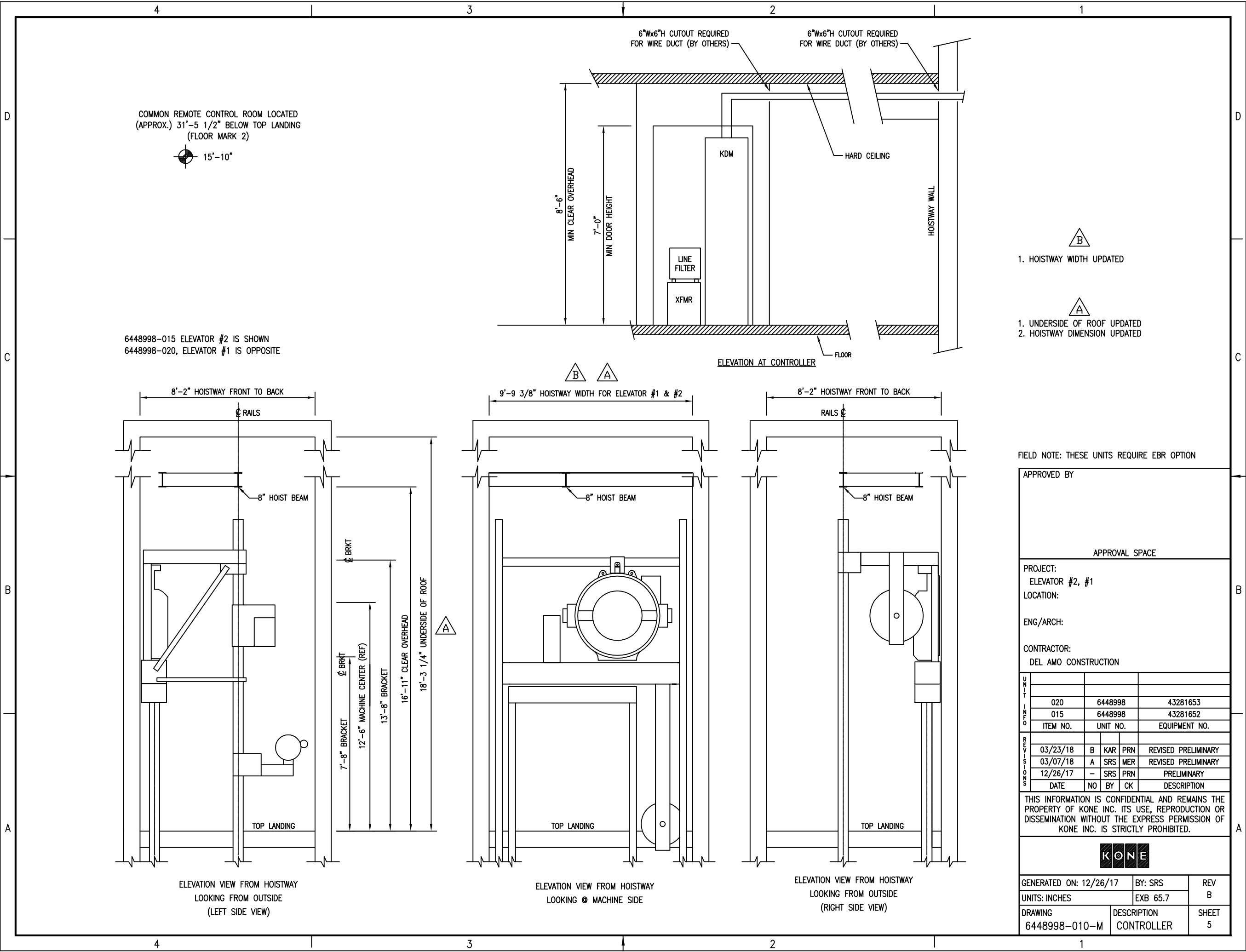
CONTRACTOR:
DEL AMO CONSTRUCTION

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

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



B

1. HOISTWAY WIDTH UPDATED

A

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 INFORMATION

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

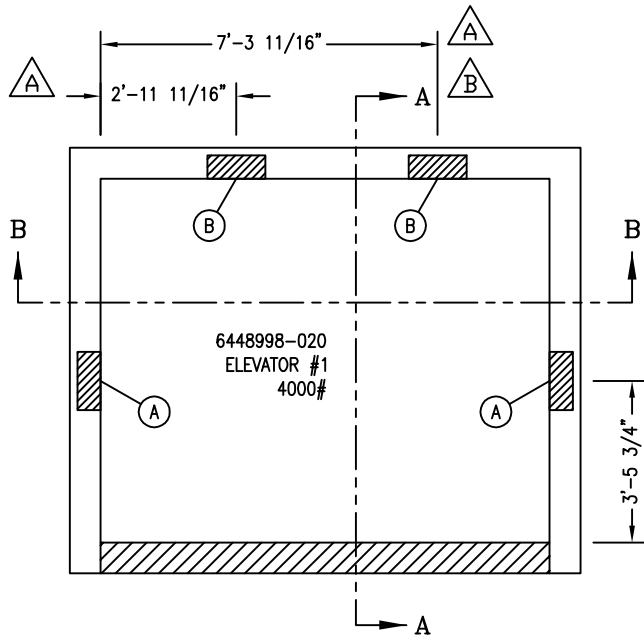
REVISIONS

03/23/18	B	KAR	PRN
03/07/18	A	SRS	MER
12/26/17	-	SRS	PRN
DATE	NO	BY	CK

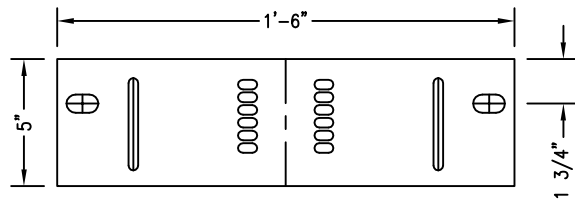
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KONE

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

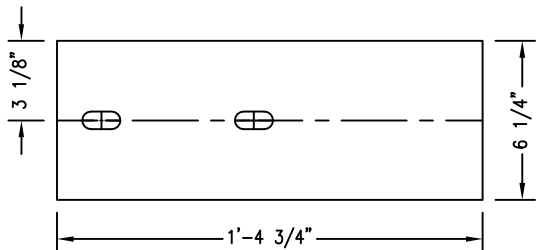


BRACKET ATTACHMENT LOCATIONS



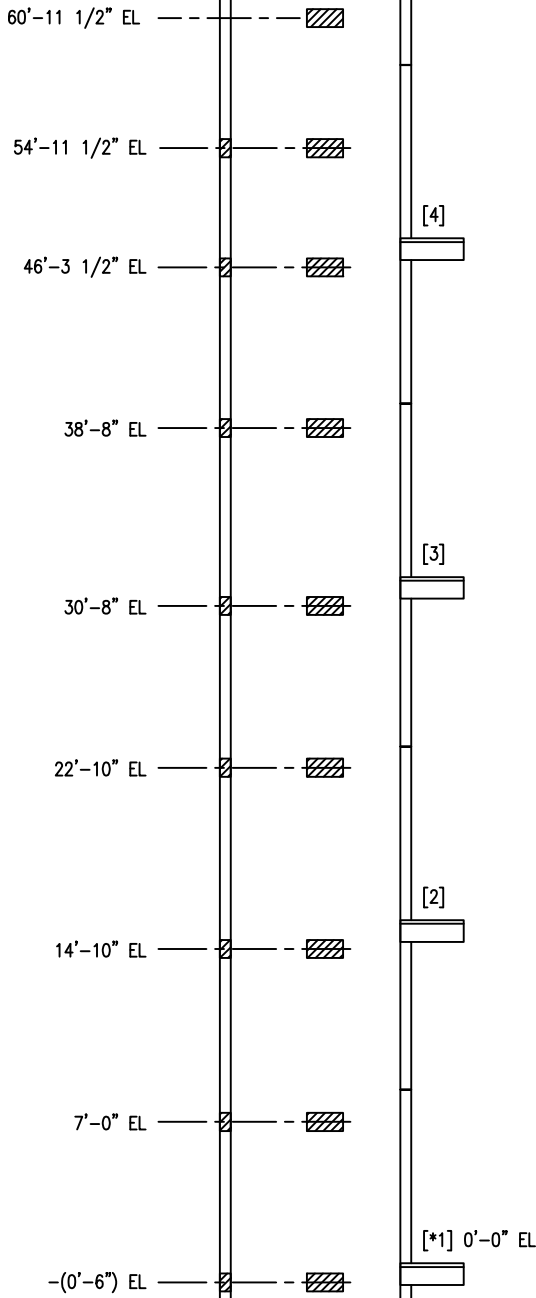
STEEL

KONE SUPPLIED BRACKET FOOTPRINT AT POINT A (CAR BRACKETS)



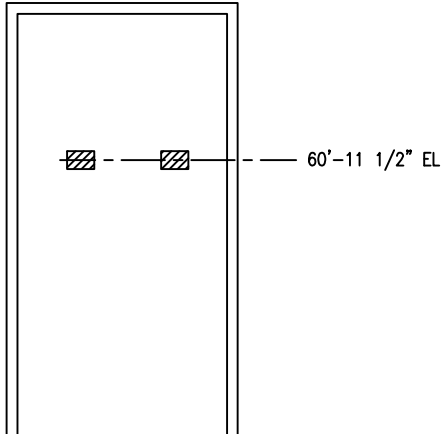
STEEL

KONE SUPPLIED BRACKET FOOTPRINT AT POINT B (CWT BRACKETS)



SECTION A-A

BRACKET ELEVATIONS ARE AT THE CENTERLINE OF BEARING AREA OF WALL FASTENERS



ELEVATIONS BELOW TOP LANDING ARE THE SAME AS SECTION A-A

SECTION B-B

BRACKET ELEVATIONS ARE AT THE CENTERLINE OF BEARING AREA OF WALL FASTENERS

1. BRACKET LOCATION UPDATED

1. BRACKET LOCATION UPDATED

APPROVED BY

APPROVAL SPACE

PROJECT:
ELEVATOR #1
LOCATION:

ENG/ARCH:

CONTRACTOR:
DEL AMO CONSTRUCTION

UNIT INFO			
	020	6448998	43281653
	ITEM NO.	UNIT NO.	EQUIPMENT NO.

REVISIONS	03/23/18	B	KAR	PRN	REVISED PRELIMINARY
	03/07/18	A	SRS	MER	REVISED PRELIMINARY
	12/26/17	-	SRS	PRN	PRELIMINARY
	DATE	NO	BY	CK	DESCRIPTION

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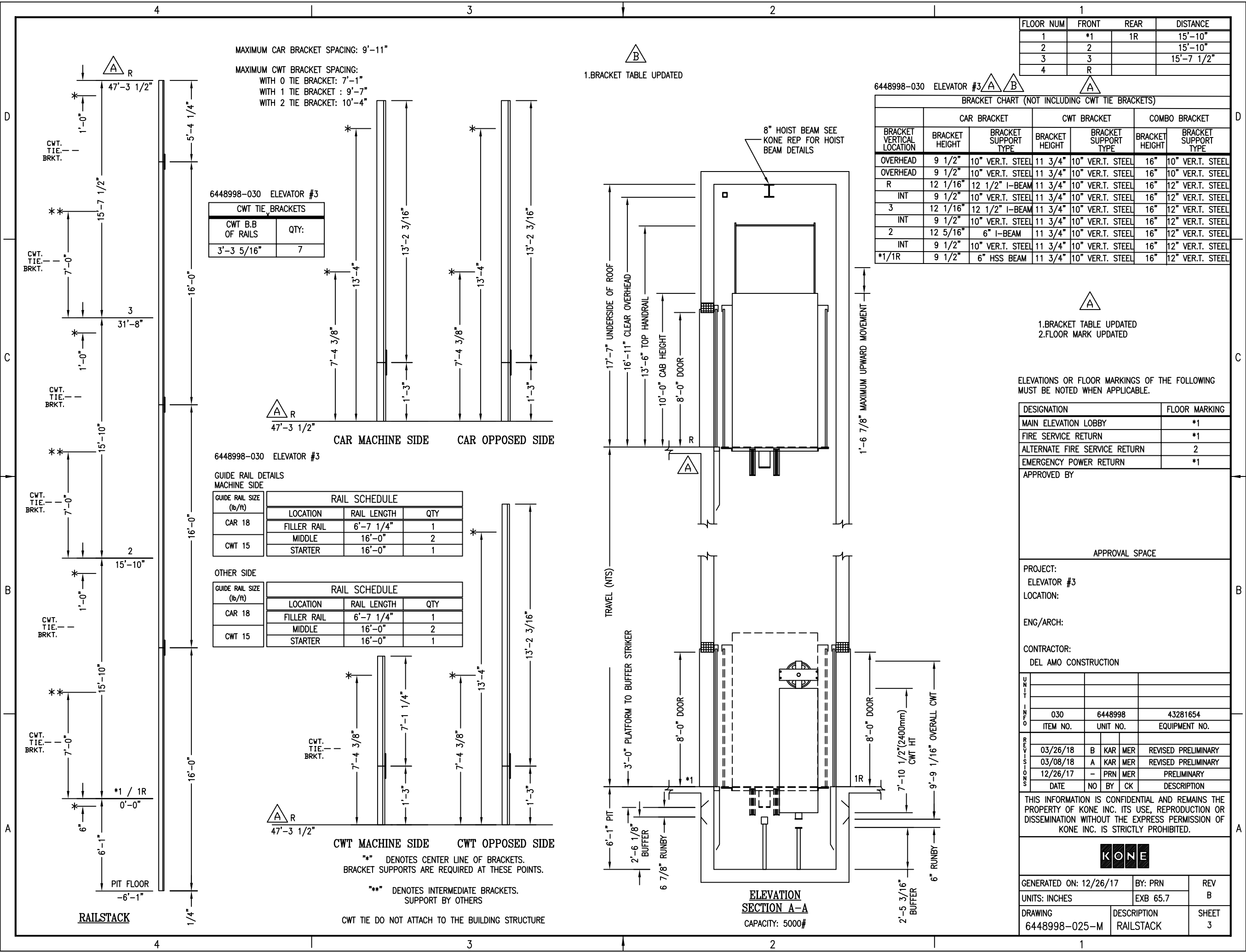
K

O

N

E

GENERATED ON: 12/26/17		BY: SRS	REV B
UNITS: INCHES		EXB 65.7	
DRAWING 6448998-010-M		DESCRIPTION BRACKET	SHEET 8



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

6448998-030 ELEVATOR #3

BRACKET CHART (NOT INCLUDING CWT TIE BRACKETS)						
BRACKET VERTICAL LOCATION	CAR BRACKET		CWT BRACKET		COMBO BRACKET	
	BRACKET HEIGHT	BRACKET SUPPORT TYPE	BRACKET HEIGHT	BRACKET SUPPORT TYPE	BRACKET HEIGHT	BRACKET SUPPORT TYPE
OVERHEAD	9 1/2"	10" VER.T. STEEL	11 3/4"	10" VER.T. STEEL	16"	10" VER.T. STEEL
OVERHEAD	9 1/2"	10" VER.T. STEEL	11 3/4"	10" VER.T. STEEL	16"	10" VER.T. STEEL
R	12 1/16"	12 1/2" I-BEAM	11 3/4"	10" VER.T. STEEL	16"	12" VER.T. STEEL
INT	9 1/2"	10" VER.T. STEEL	11 3/4"	10" VER.T. STEEL	16"	12" VER.T. STEEL
3	12 1/16"	12 1/2" I-BEAM	11 3/4"	10" VER.T. STEEL	16"	12" VER.T. STEEL
INT	9 1/2"	10" VER.T. STEEL	11 3/4"	10" VER.T. STEEL	16"	12" VER.T. STEEL
2	12 5/16"	6" I-BEAM	11 3/4"	10" VER.T. STEEL	16"	12" VER.T. STEEL
INT	9 1/2"	10" VER.T. STEEL	11 3/4"	10" VER.T. STEEL	16"	12" VER.T. STEEL
*1/1R	9 1/2"	6" HSS BEAM	11 3/4"	10" VER.T. STEEL	16"	12" VER.T. STEEL

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

APPROVED BY

APPROVAL SPACE

PROJECT:
ELEVATOR #3
LOCATION:

ENG/ARCH:

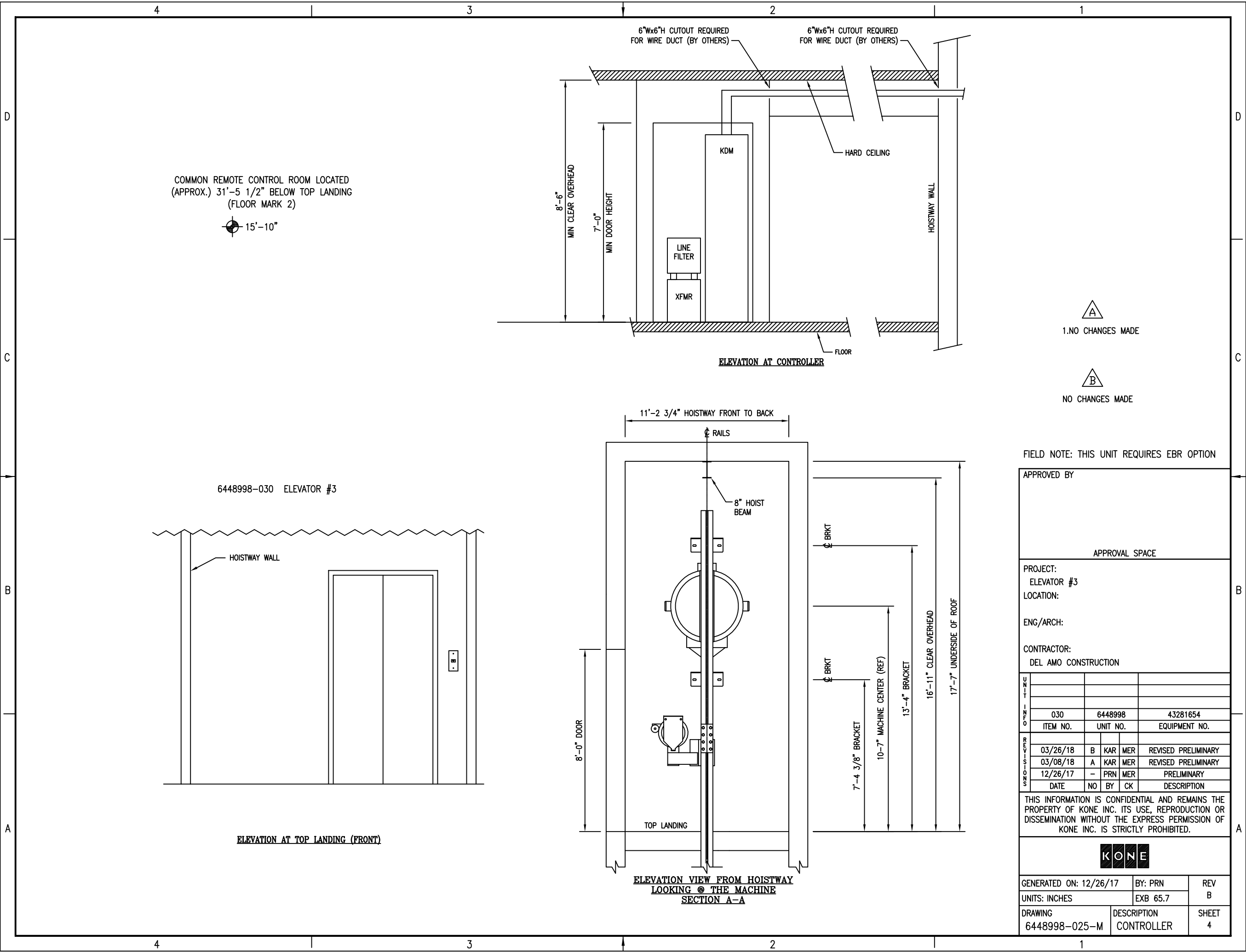
CONTRACTOR:
DEL AMO CONSTRUCTION

DATE	NO	BY	CK	DESCRIPTION
03/26/18	B	KAR	MER	REVISED PRELIMINARY
03/08/18	A	KAR	MER	REVISED PRELIMINARY
12/26/17	-	PRN	MER	PRELIMINARY

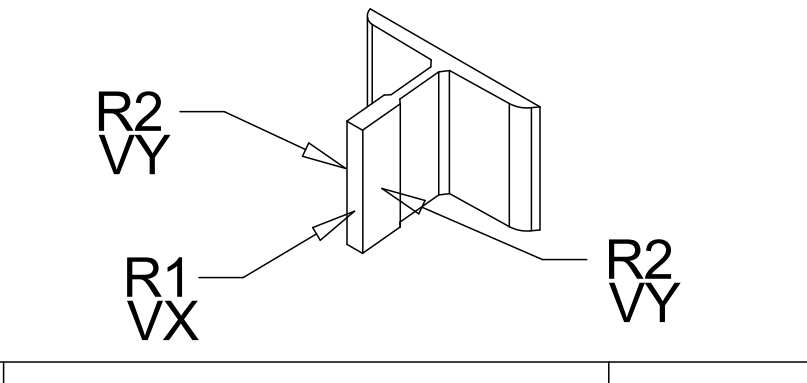
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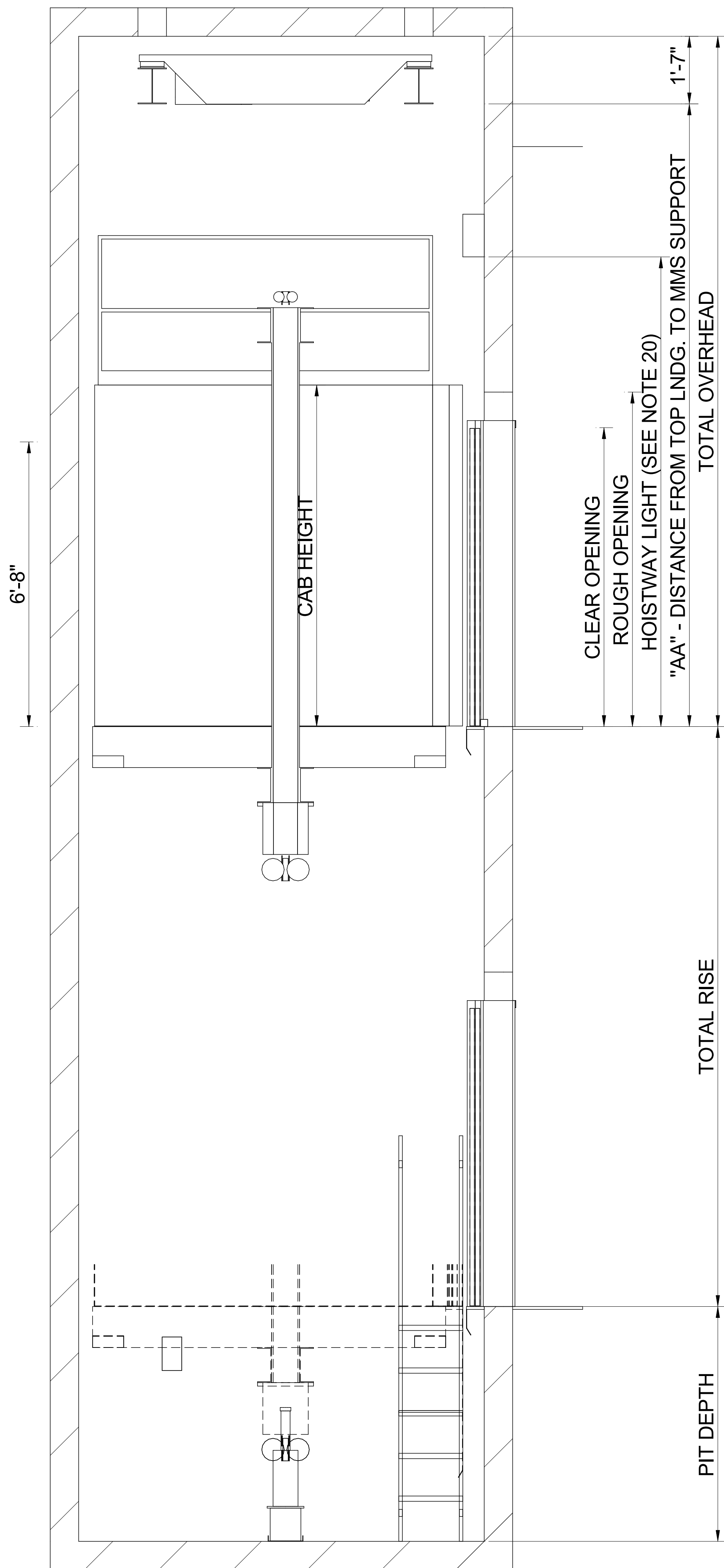
GENERATED ON: 12/26/17	BY: PRN	REV B
UNITS: INCHES	EXB 65.7	
DRAWING 6448998-025-M	DESCRIPTION RAILSTACK	SHEET 3



[illegible]

RAIL FORCE & BRACKET SPACING DETAIL		
		
CAR	R1 (LBS.)	508
	R2 (LBS.)	177
	VX (LBS.)	2672
	VY (LBS.)	1336
	MAXIMUM BRACKET SPACING	13'-7"
	RAIL SIZE	#1
CWT	R1 (LBS.)	259
	R2 (LBS.)	28
	VX (LBS.)	2791
	VY (LBS.)	1395
	MAXIMUM BRACKET SPACING	13'-7"
	RAIL SIZE	#1-1/2

CAR R1 = SAFETY APPLICATION
CWT R1 = SAFETY APPLICATION
R2 = LOADING OR RUNNING
REQUIREMENTS FOR RAIL BRACKET
SUPPORT (NOT BY OTIS):
DEFLECTION NOT TO EXCEED 1/8"
BASED ON HORIZONTAL RAIL FORCES.



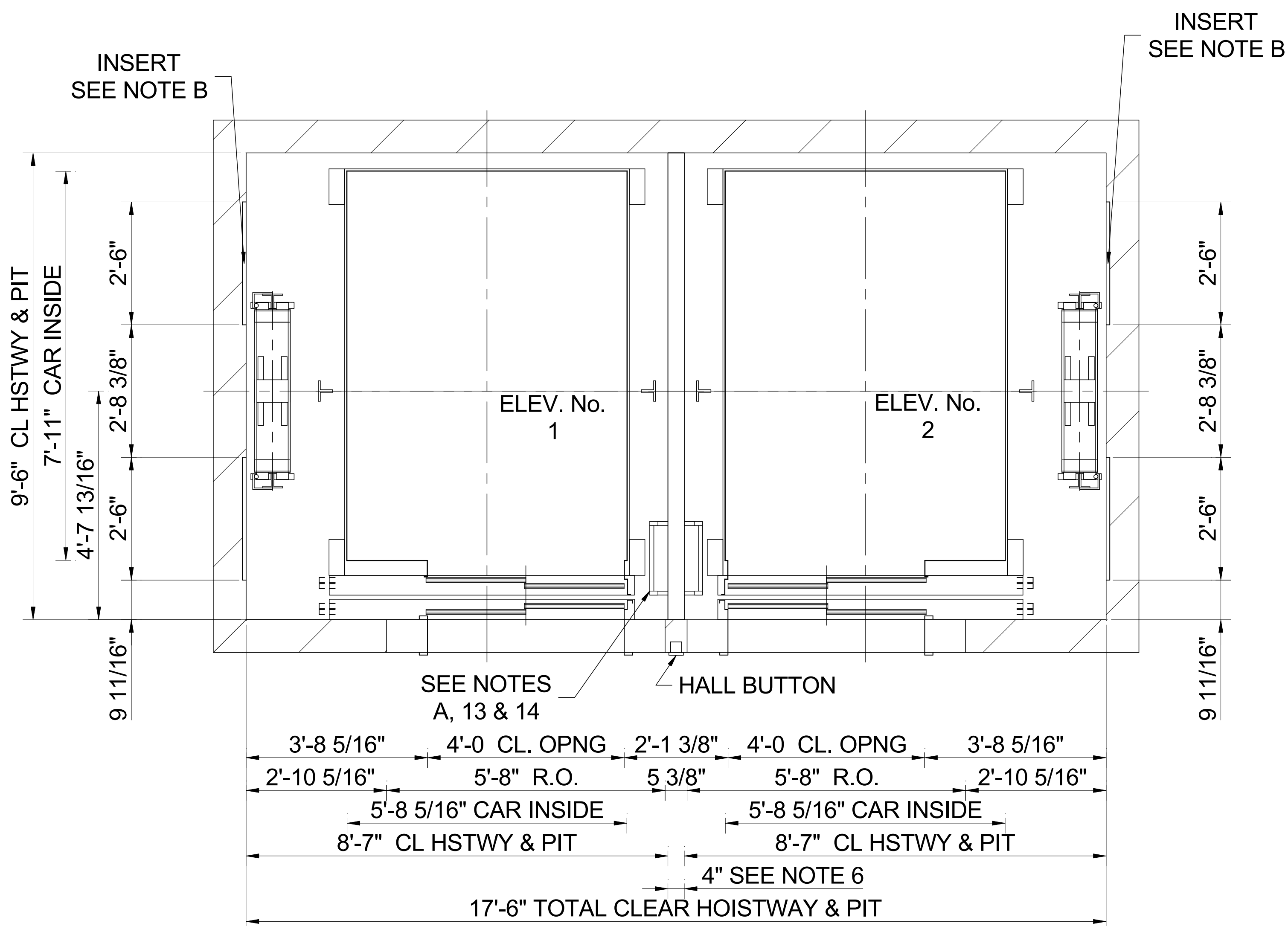
SECTIONAL ELEVATION

FOR MAX. SPACING BETWEEN INSERTS SEE RAIL FORCE DETAIL

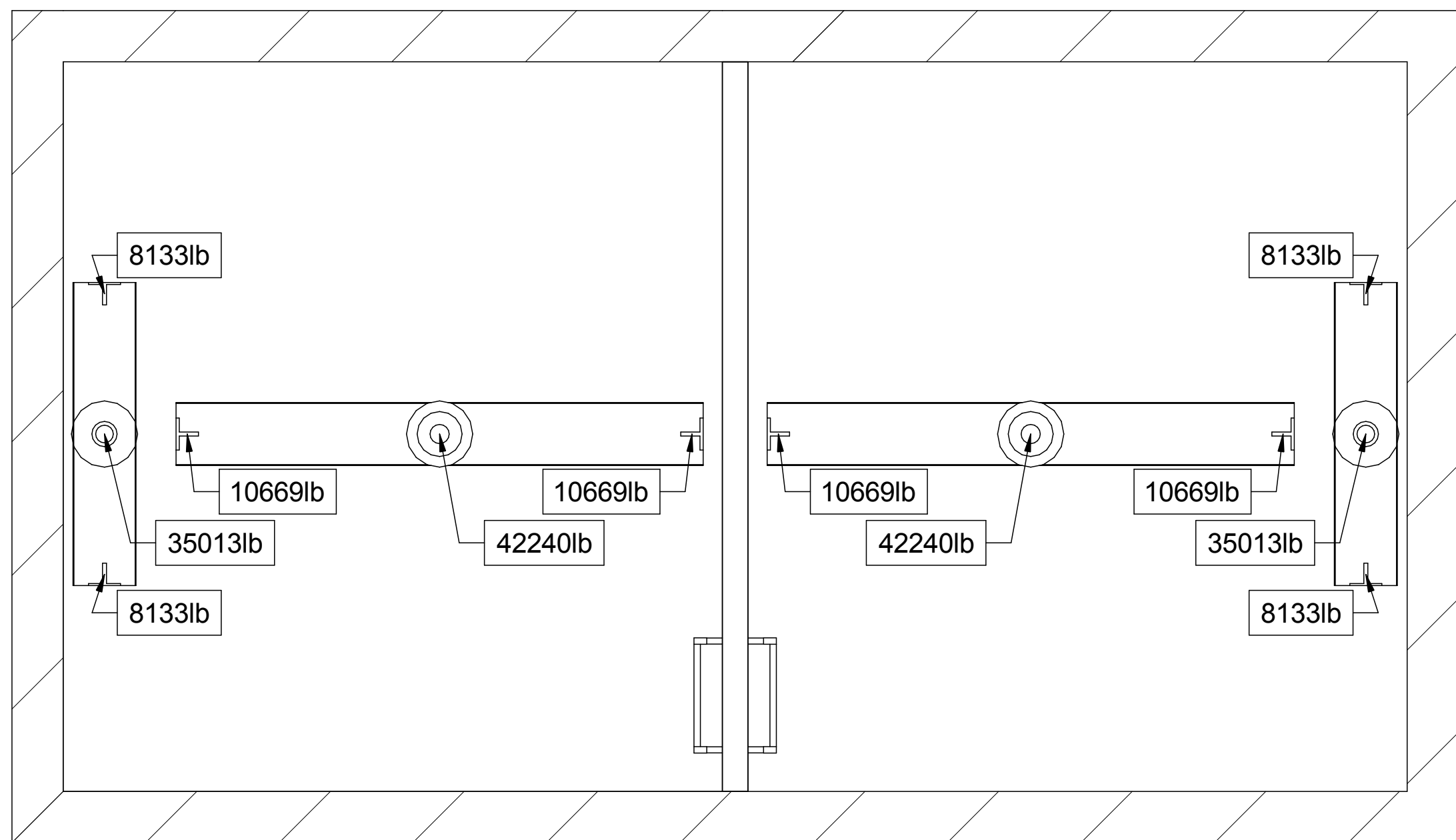
* COUNTERWEIGHT SAFETIES ARE REQUIRED WHEN OCCUPIED SPACE EXISTS BELOW THE PIT, PER ASME A17.1 SECTION 2.6.

	CAB HEIGHT	
	8'-0"	9'-7"
MIN. "PIT DEPTH"	5'-6"	
MAX. "PIT DEPTH"	15'-6"	
MIN. "TOTAL OVERHEAD"	16'-2"	17'-9"
MIN. "AA"	14'-7"	16'-2"
MAX. "AA"	14'-10"	16'-5"
MIN. "TOTAL RISE"	20'-0"	
MAX. "TOTAL RISE"	302'-0"	

STANDARD WORKING RANGES

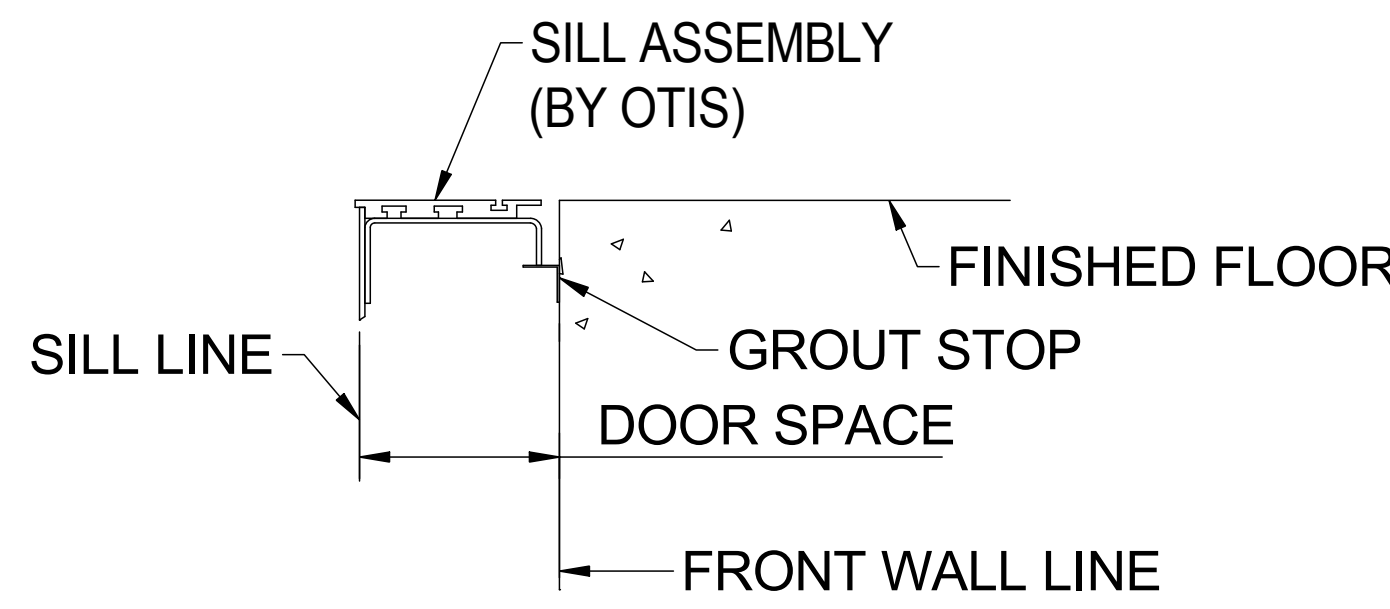


PLAN VIEW



PIT PLAN VIEW

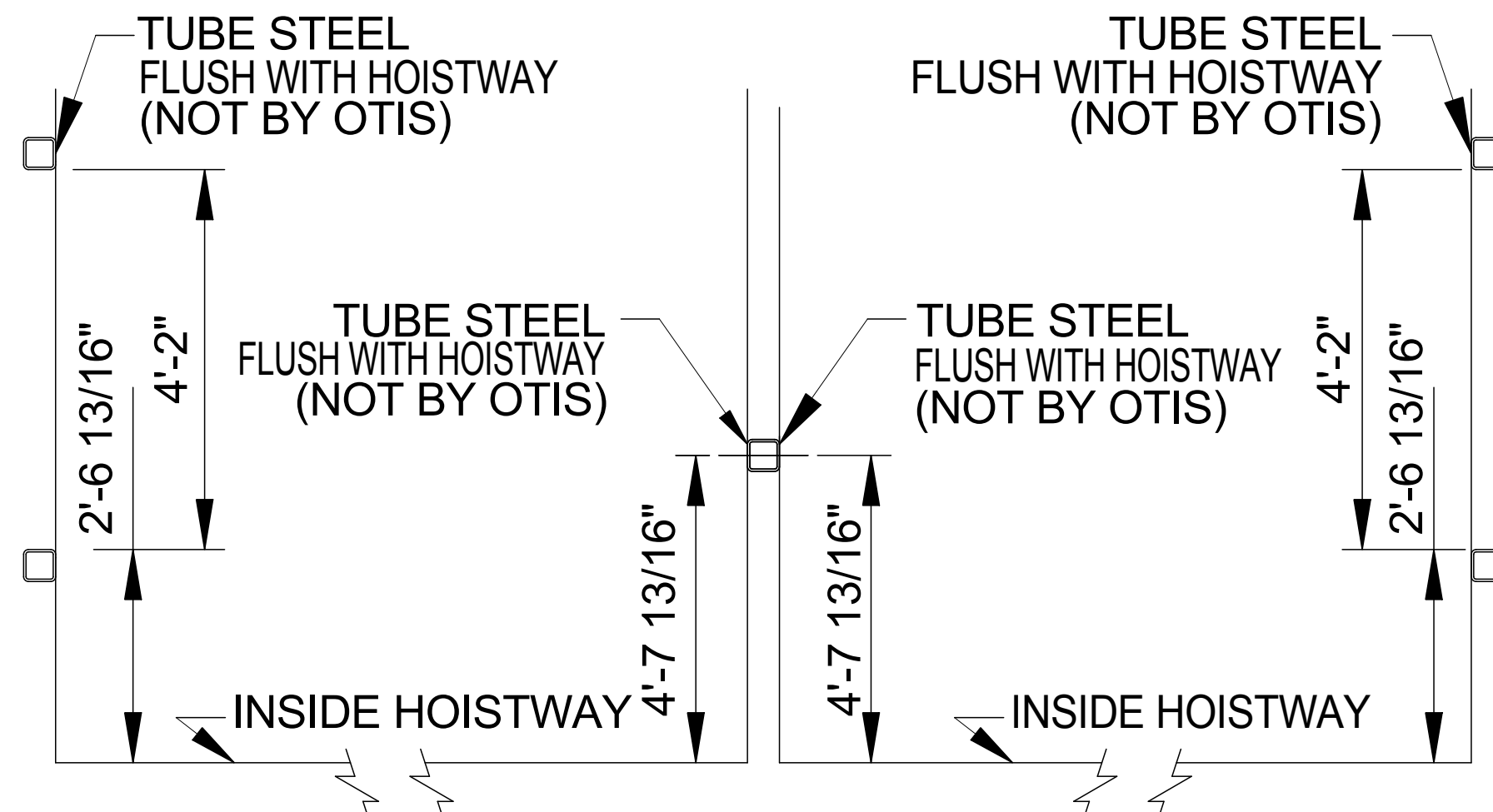
FORCE SHOWN INCLUDES DOUBLING
FOR IMPACT (SEE NOTE 11)



SEE NOTE 7

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 A
IF CUTOFF REQUIRED FOR PIT LADDER,
23" (WIDTH) X 2-1/2"(DEPTH) X PIT DEPTH + 4'-0"
OTIS REPRESENTATIVE TO CONFIRM YOUR SPECIFIC LOCATION.

NOTE B
THESE DIMENSIONS ARE BASED ON HOISTWAY SIZES SHOWN
AND 30" INSERTS. IF EITHER OF THESE VARY, CONSULT THE
SALES REPRESENTATIVE.

NOTE C
HOISTWAY LIGHT SWITCH (LOCATED 3'-0" ABOVE TOP LANDING) COORDINATE LOCATION WITH OTIS.

APPROVAL
THIS ARRANGEMENT AND
SUPPLEMENTARY NOTES APPROVED

SIGNED: _____ DATE: _____

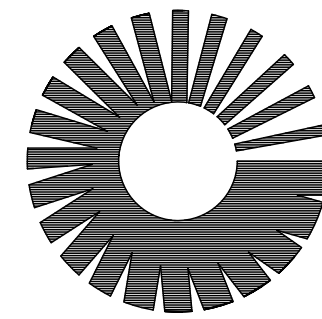
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Gen2[®]

**4500 #
350 F.P.M**

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



Otis

A United Technologies Company

REVISION DATE: SHEET 2 OF 3

DWG. NO.: GEN4535H-PN

BUILDING

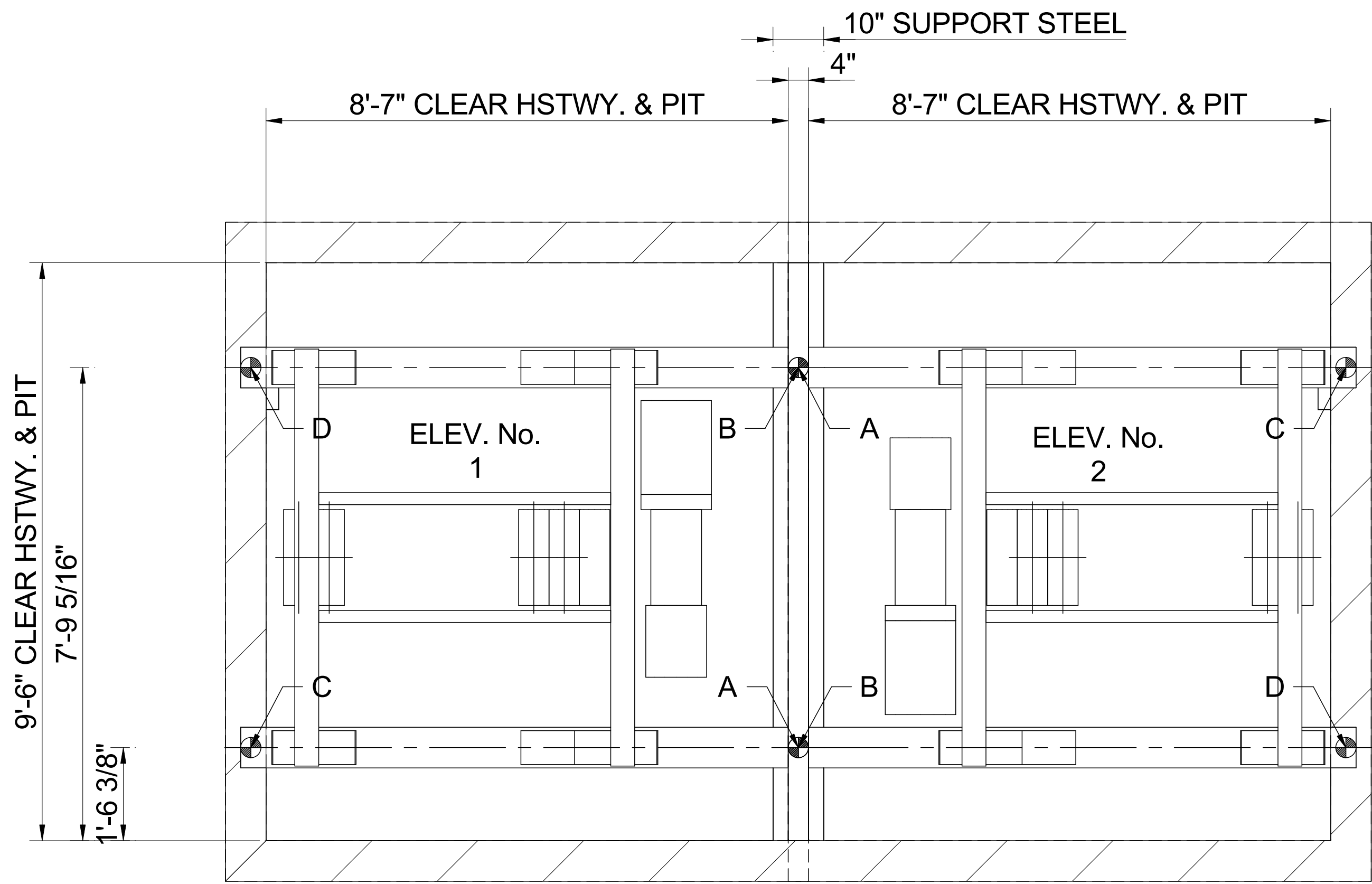
LOCATION _____

CONT. WITH

OWNER

ARCHT.

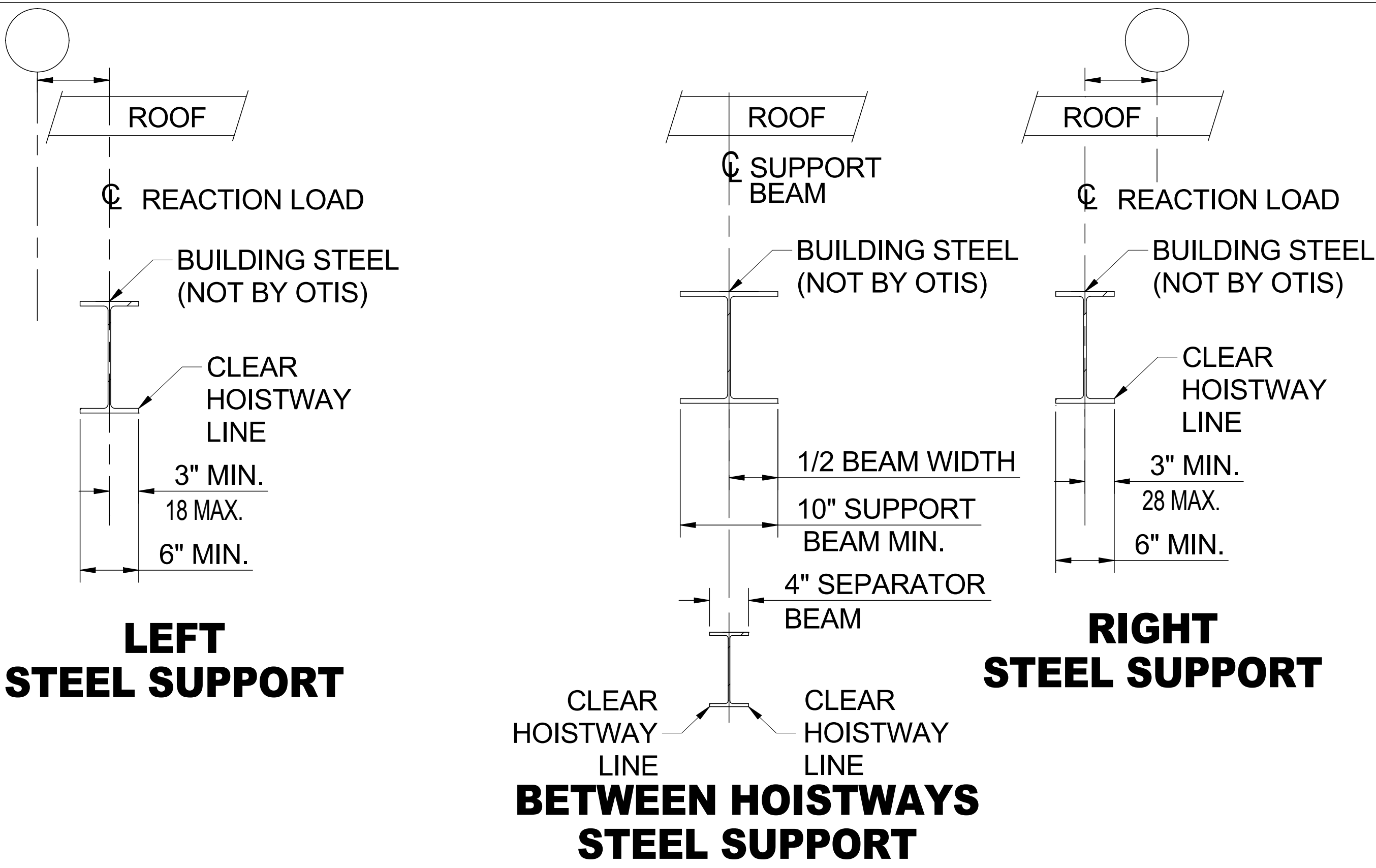
CONTRACT NO.



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	

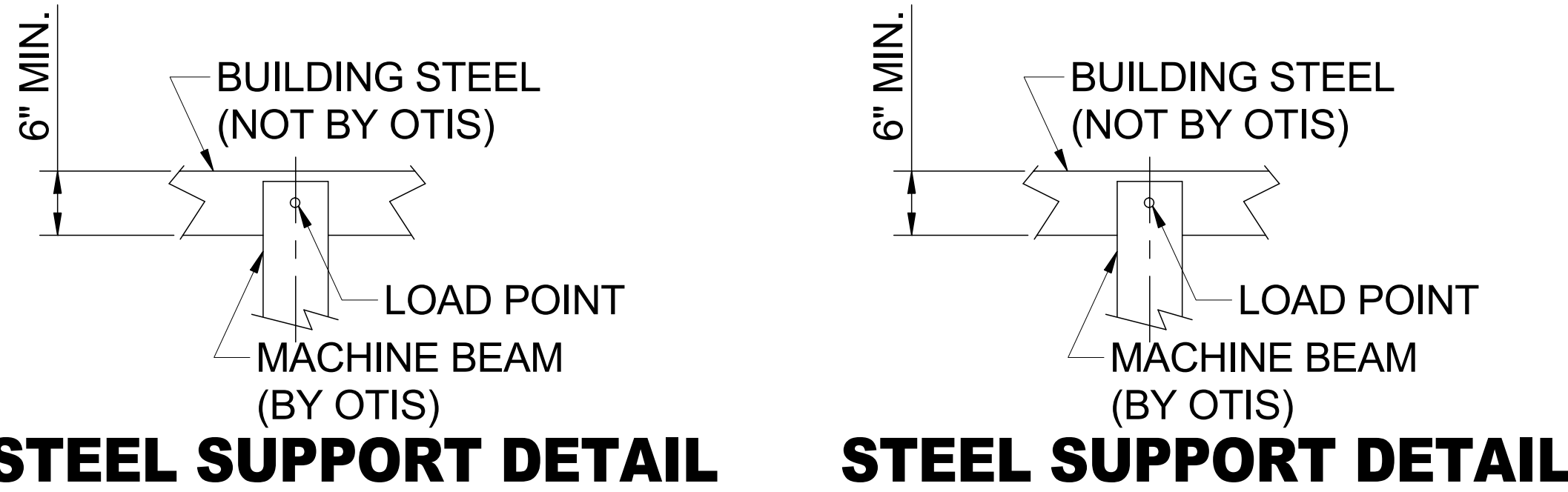
DESIGN CRITERIA FOR BUILDING IMMEDIATE SUPPORTS

1. STATIC CONDITION: $\triangle_{ALLOW.} = \frac{SPAN}{1666}$
2. DYNAMIC CONDITION: $STRESS_{ALLOW.} = 80\%$ OF THE PERMITTED STRESSES FOR STATIC LOADS.

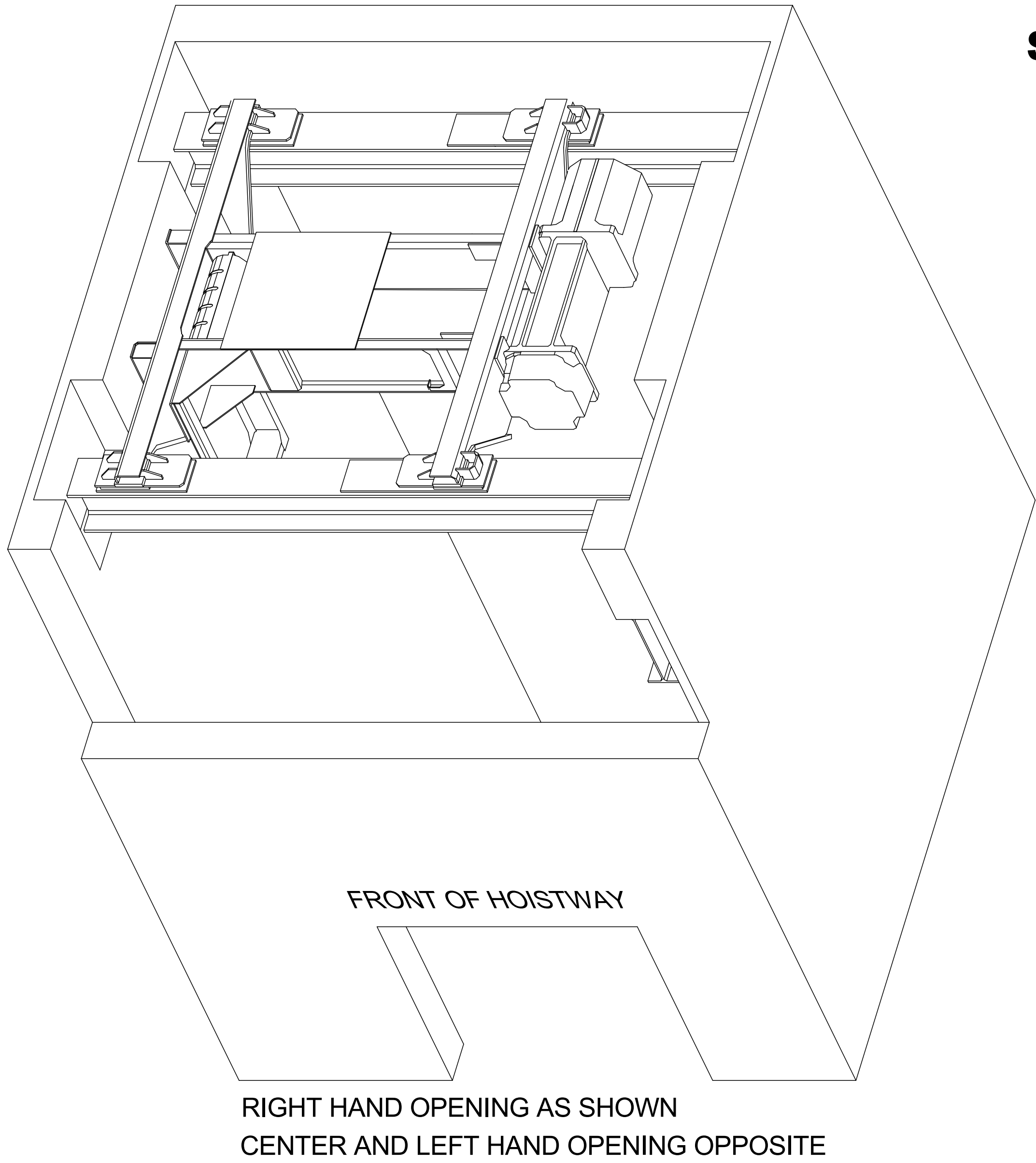
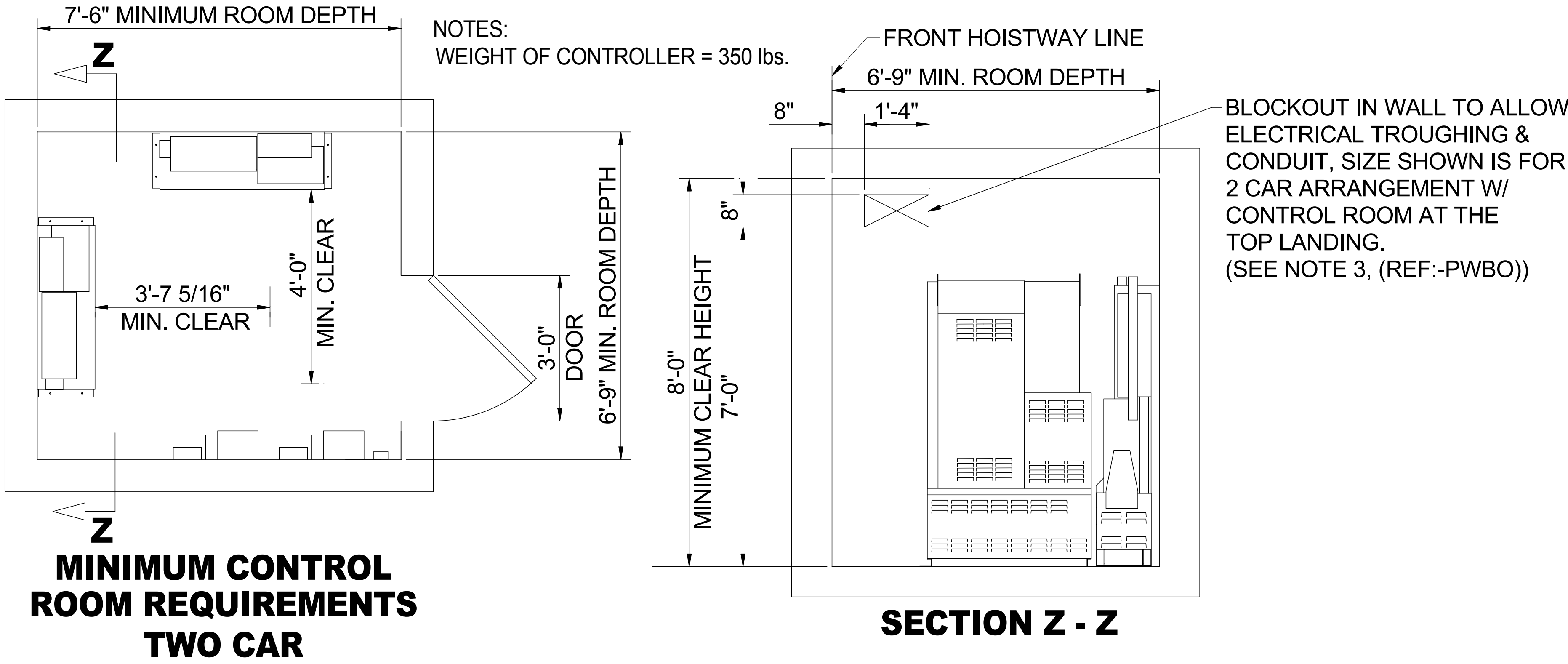


PLEASE PROVIDE AND VERIFY COLUMN LINE REFERENCE AND DISTANCE FROM COLUMN LINE TO ϕ OF STEEL SUPPORT

SIGNED: _____ DATE: _____



MACHINE MOUNTING STRUCTURE (MMS)



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: _____

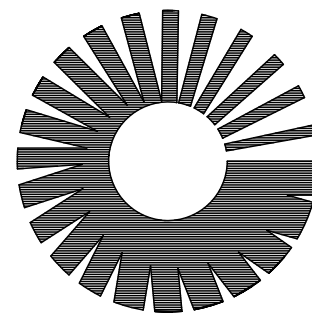
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Gen2[®]

4500 #
350 F.P.M

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



Otis

A United Technologies Company

REVISION DATE: _____ SHEET 3 OF 3

DWG. NO.: GEN4535H-EL

BUILDING

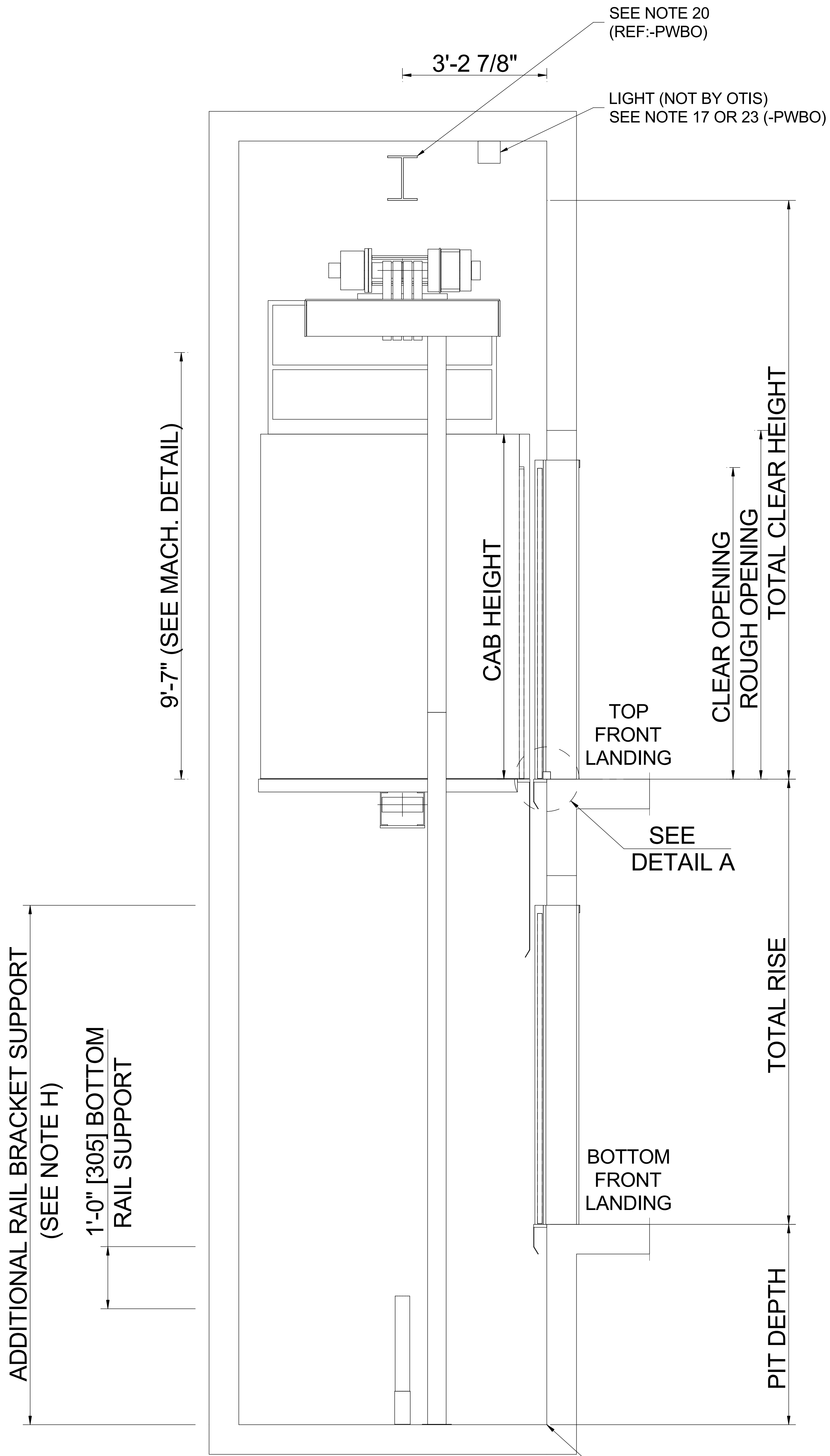
LOCATION ,

CONT. WITH

OWNER

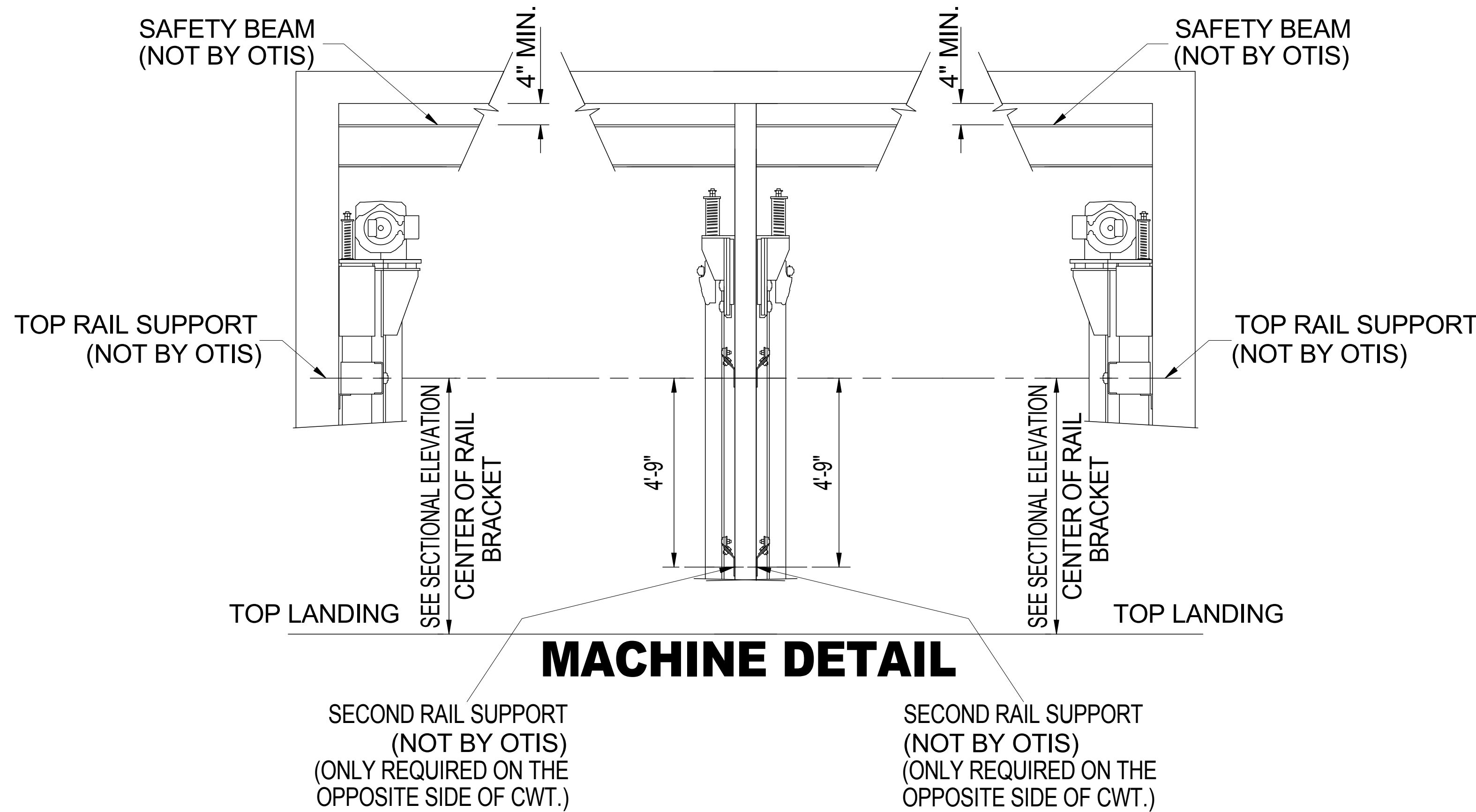
ARCHT.

CONTRACT NO.



SECTIONAL ELEVATION

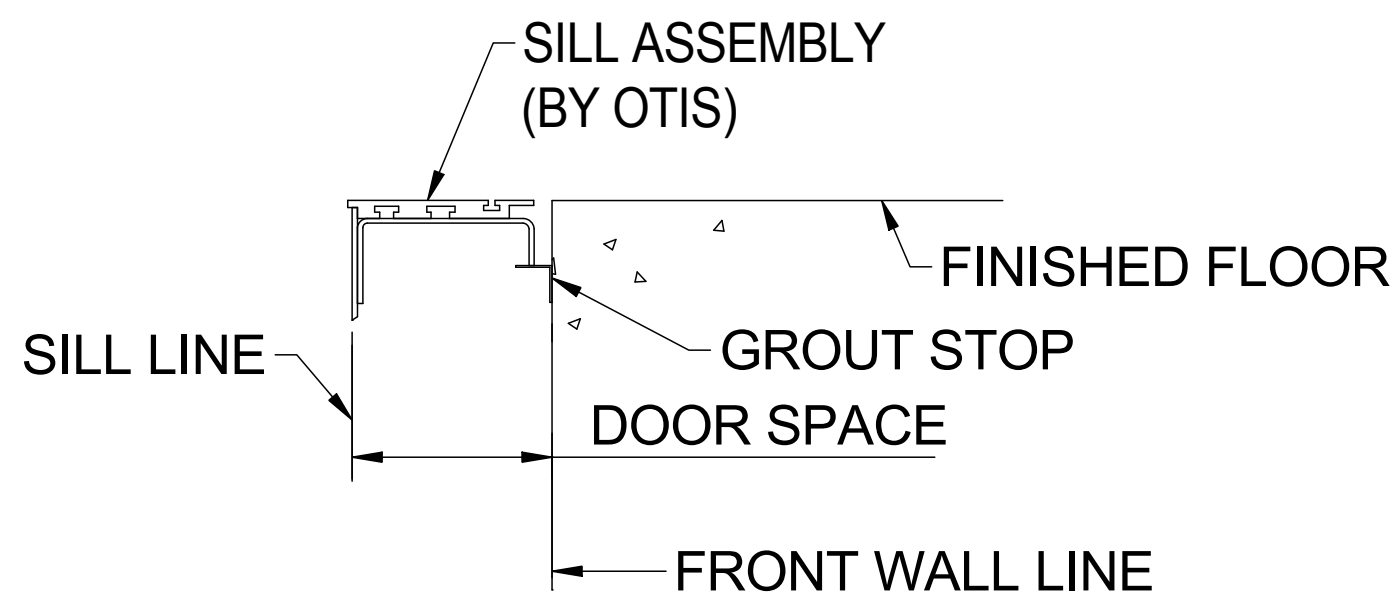
FOR MAX. SPACING BETWEEN INSERTS SEE RAIL FORCE DETAIL



	<= 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"	15'-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.

APPROVAL
THIS ARRANGEMENT AND
SUPPLEMENTARY NOTES APPROVED

SIGNED: _____ DATE: _____

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Gen2[®] 3500 #
350 F.P.M.
CAR TYPE = PASSENGER CONTROLLER LOCATION = ROOM
SEISMIC = ZONEO GLASS BACK CAR = N



REVISION DATE: 3/2/2018 SHEET 3 OF 4

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

BUILDING

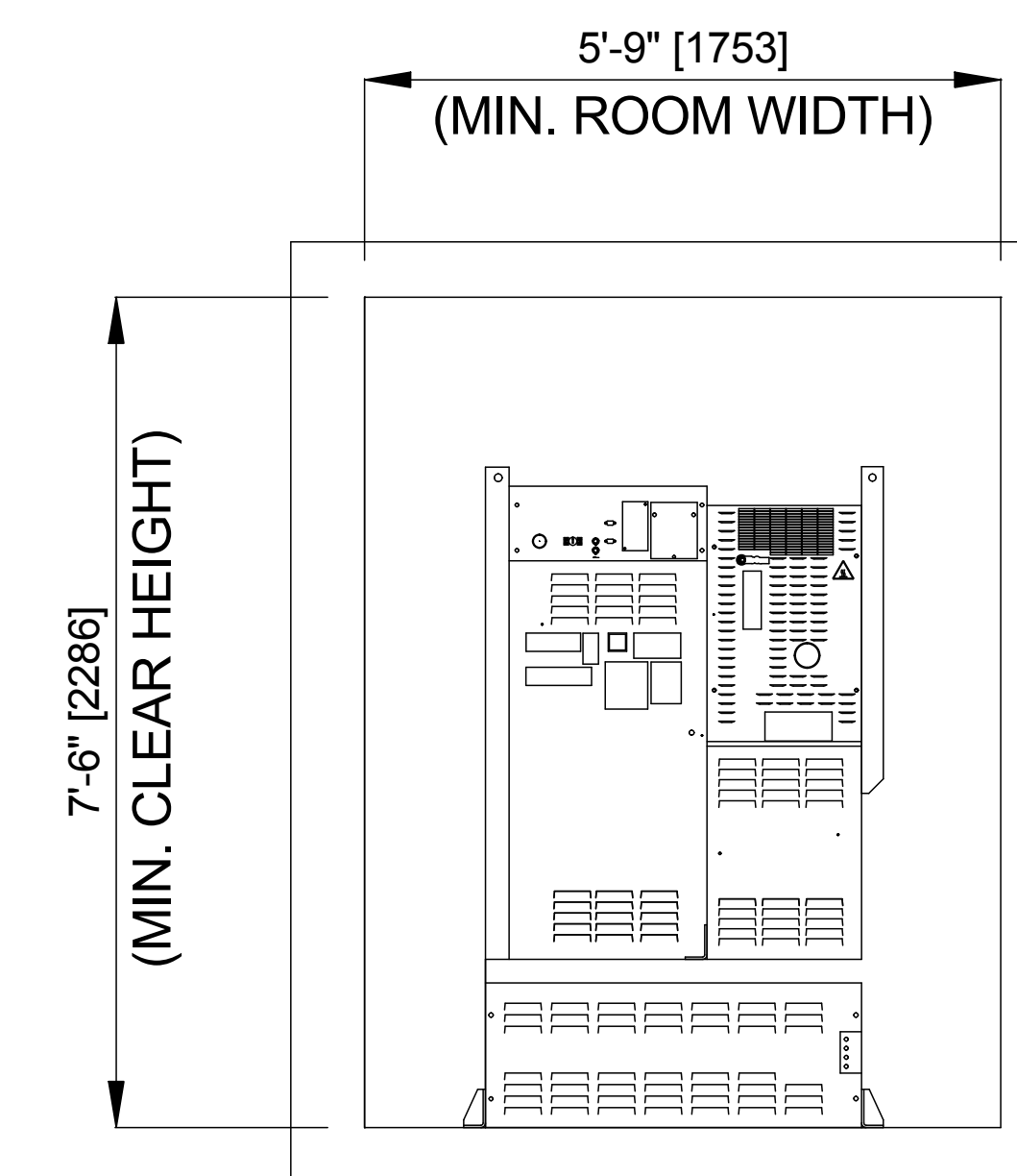
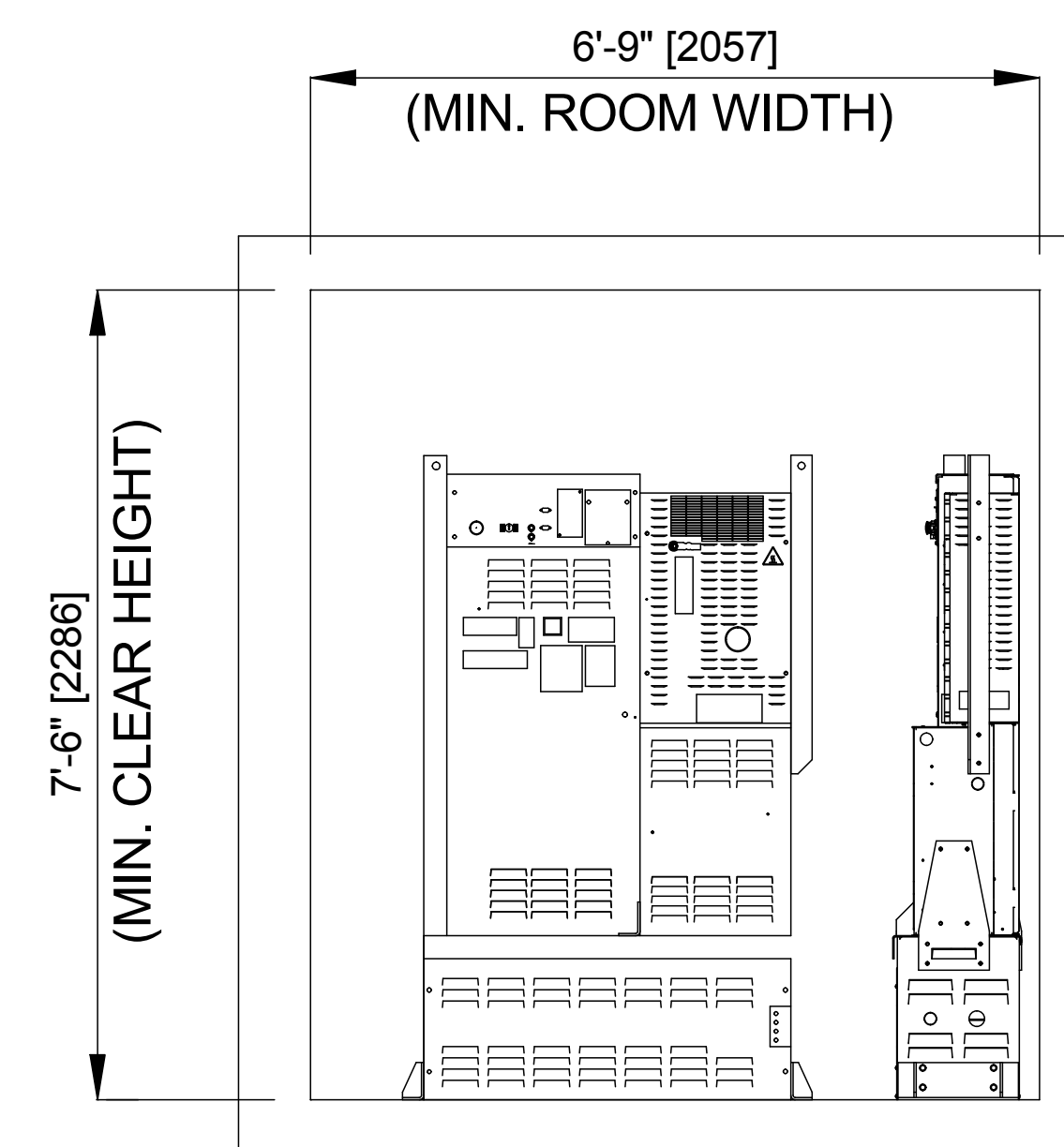
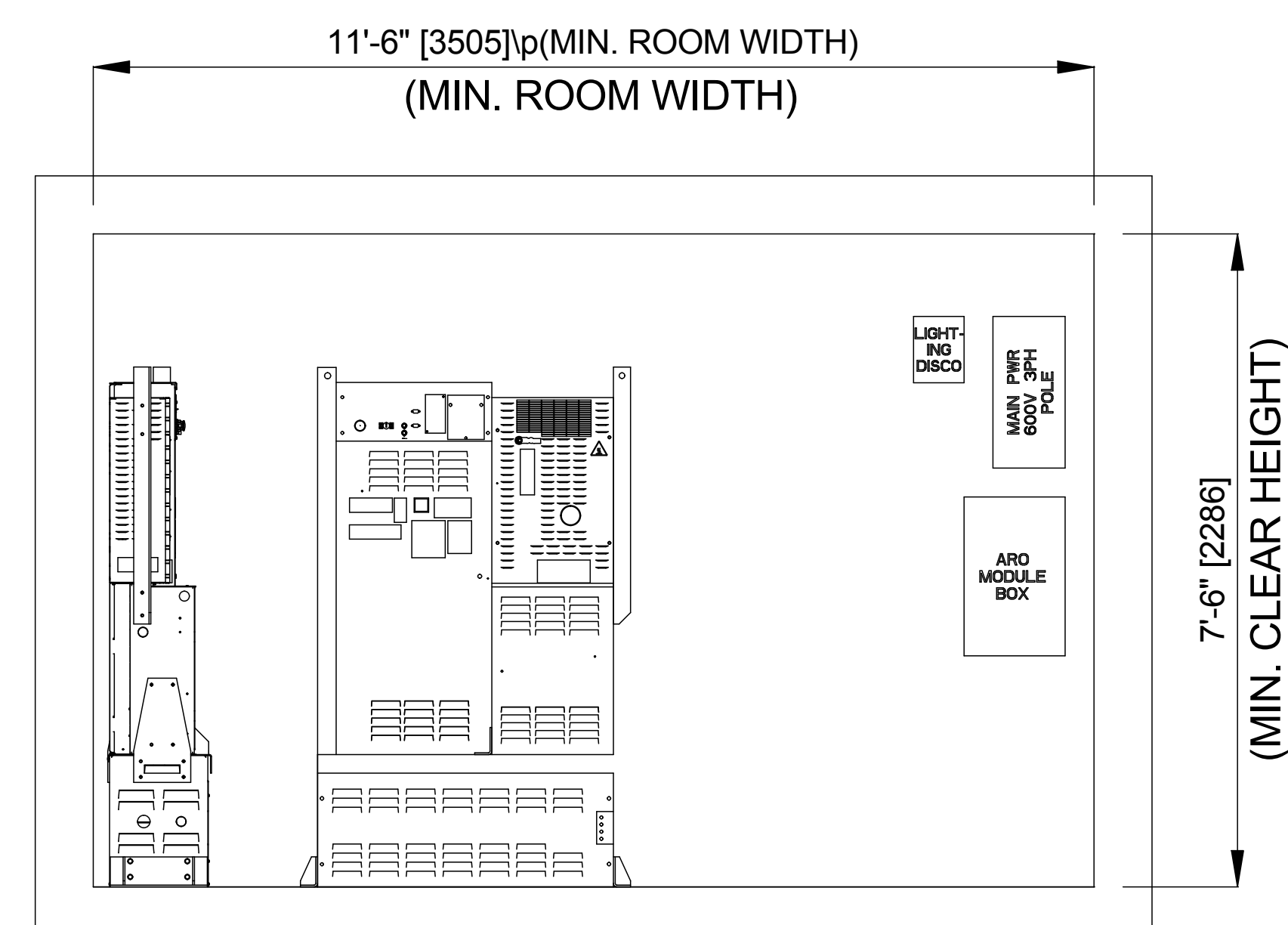
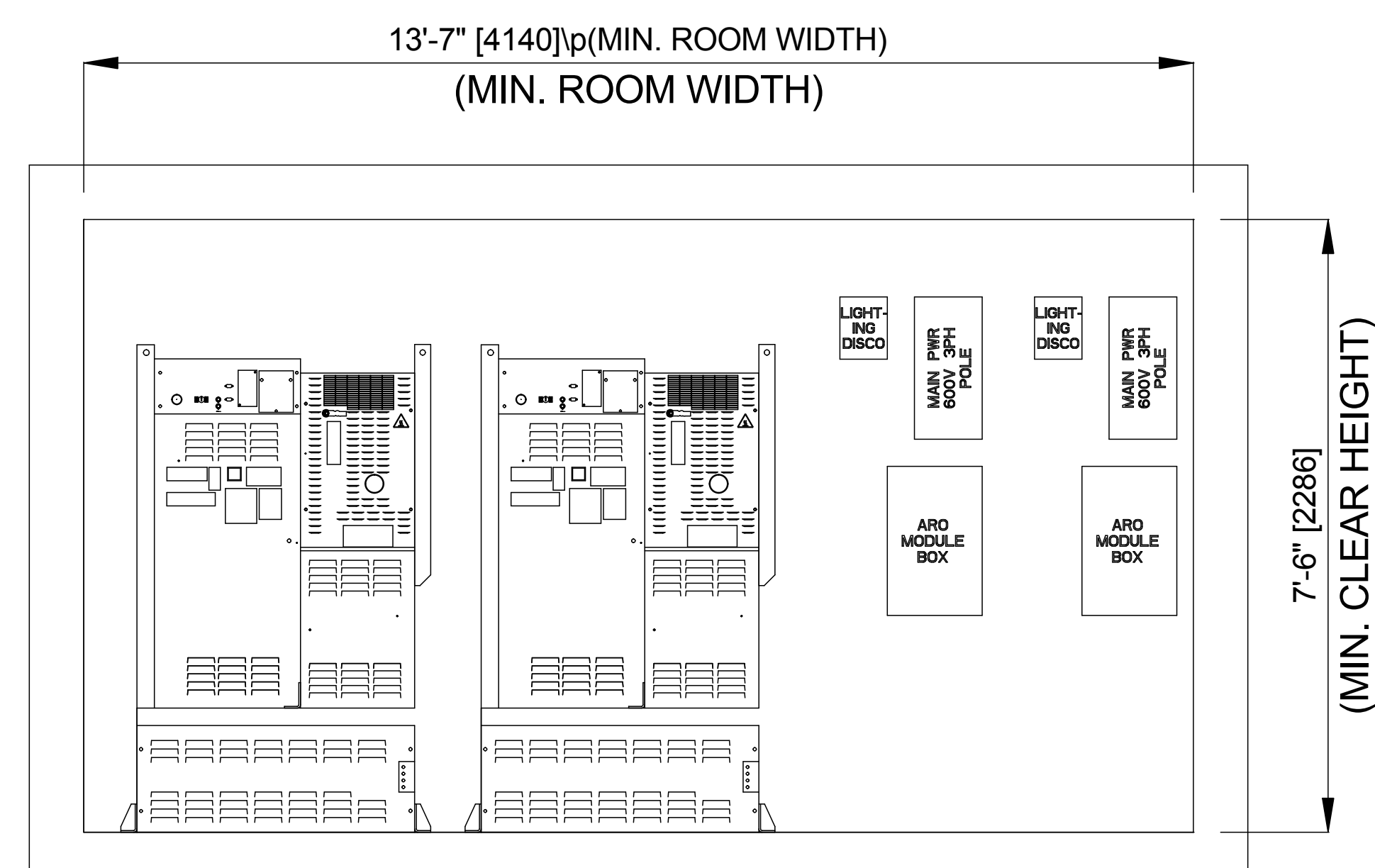
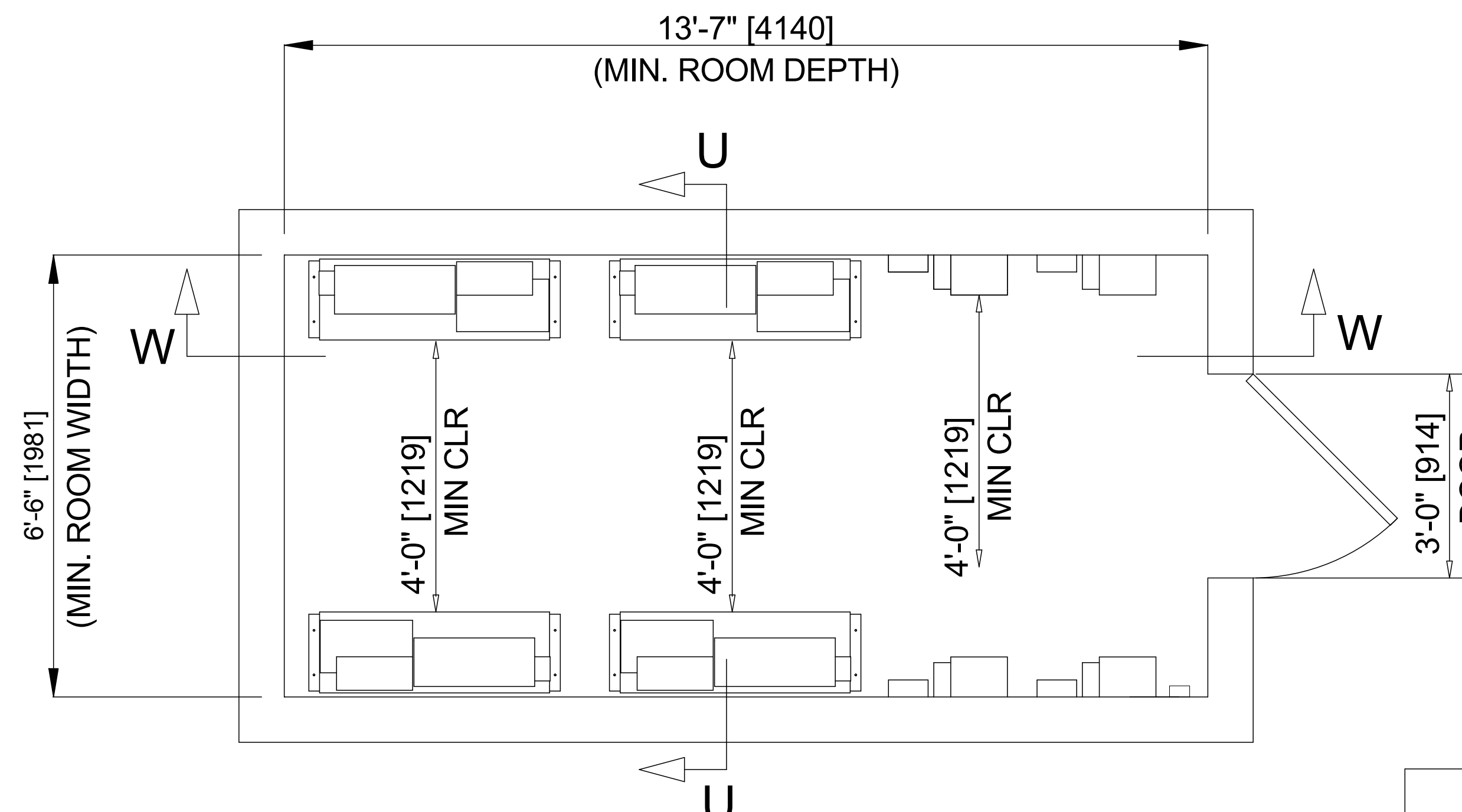
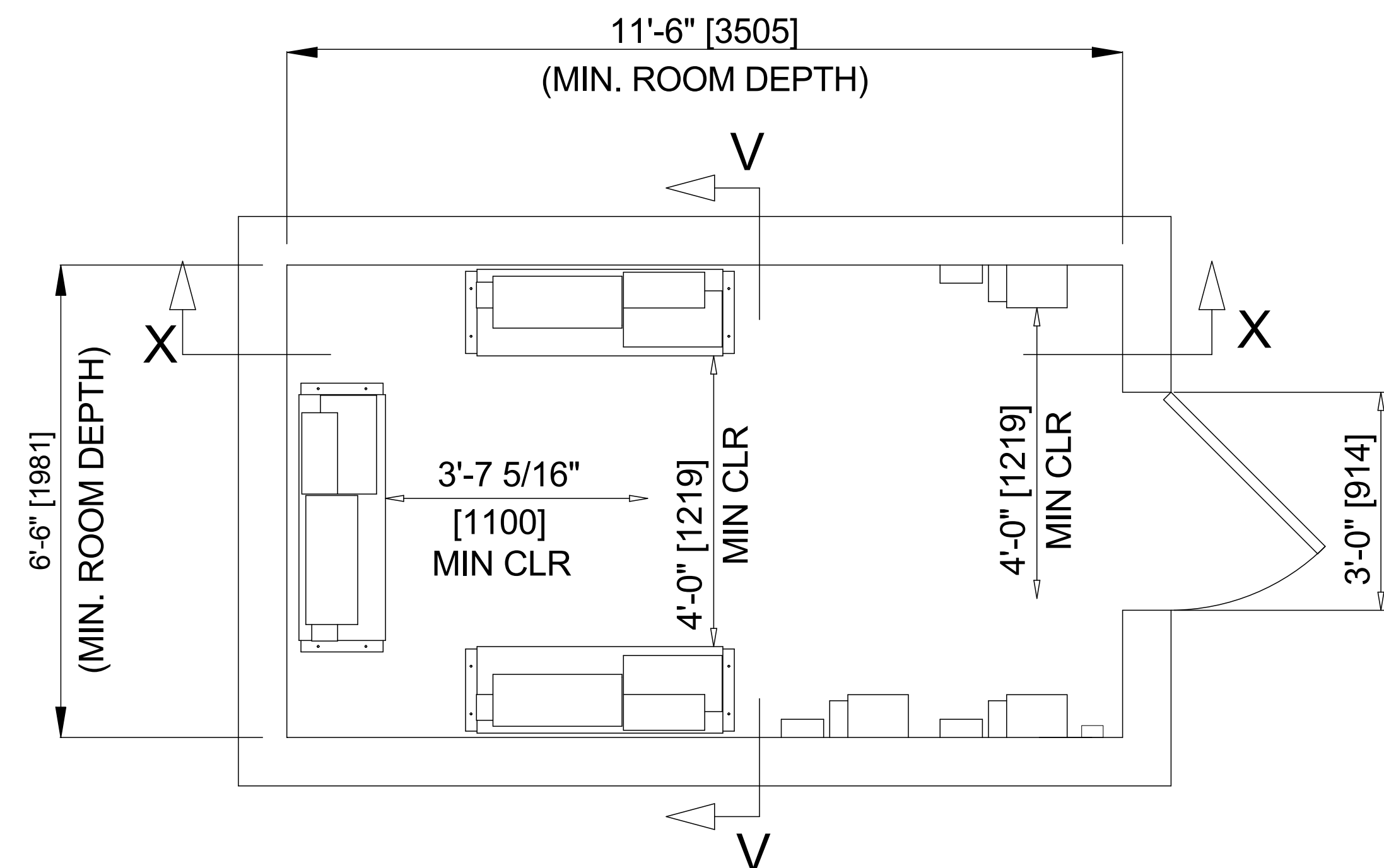
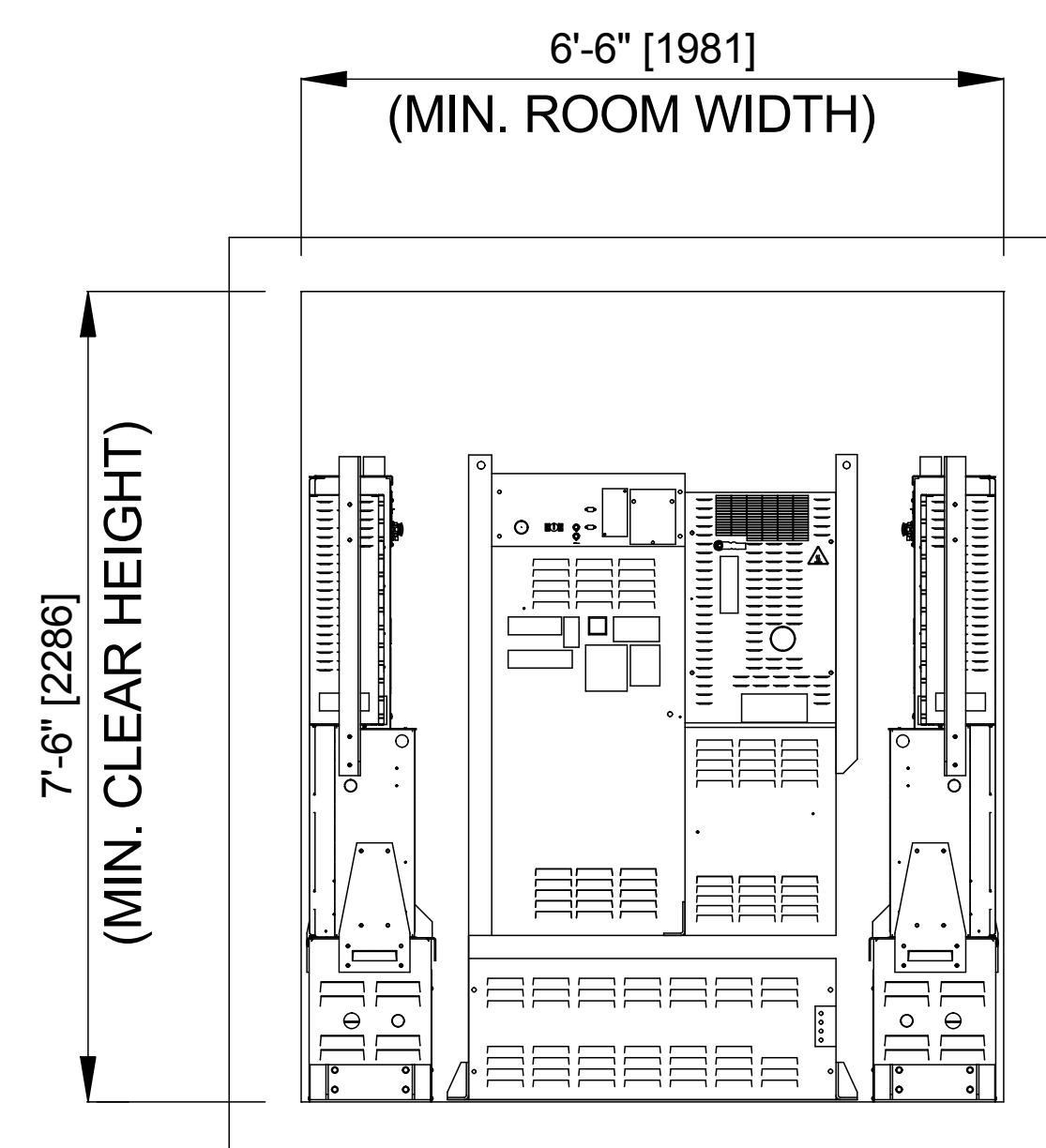
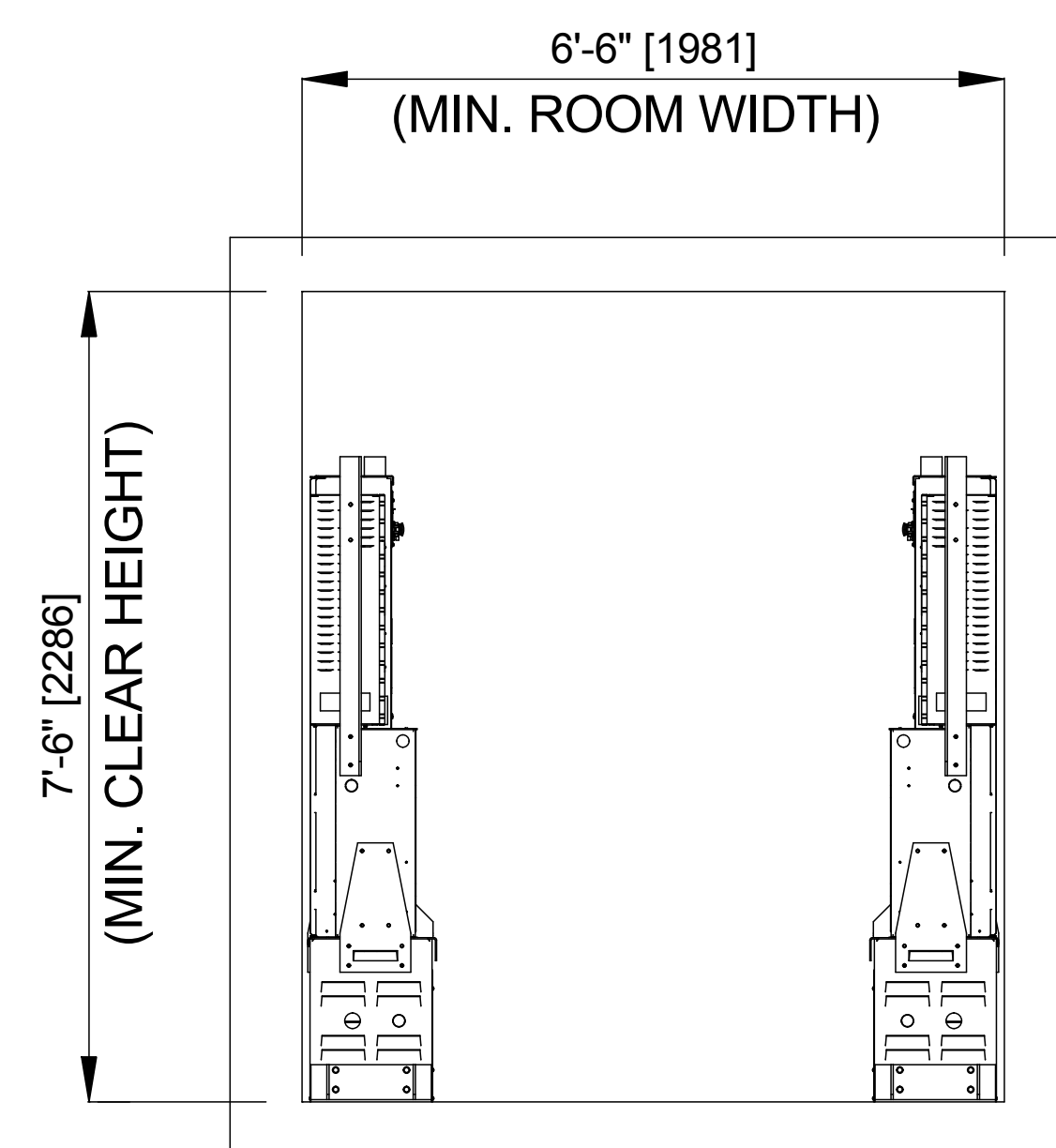
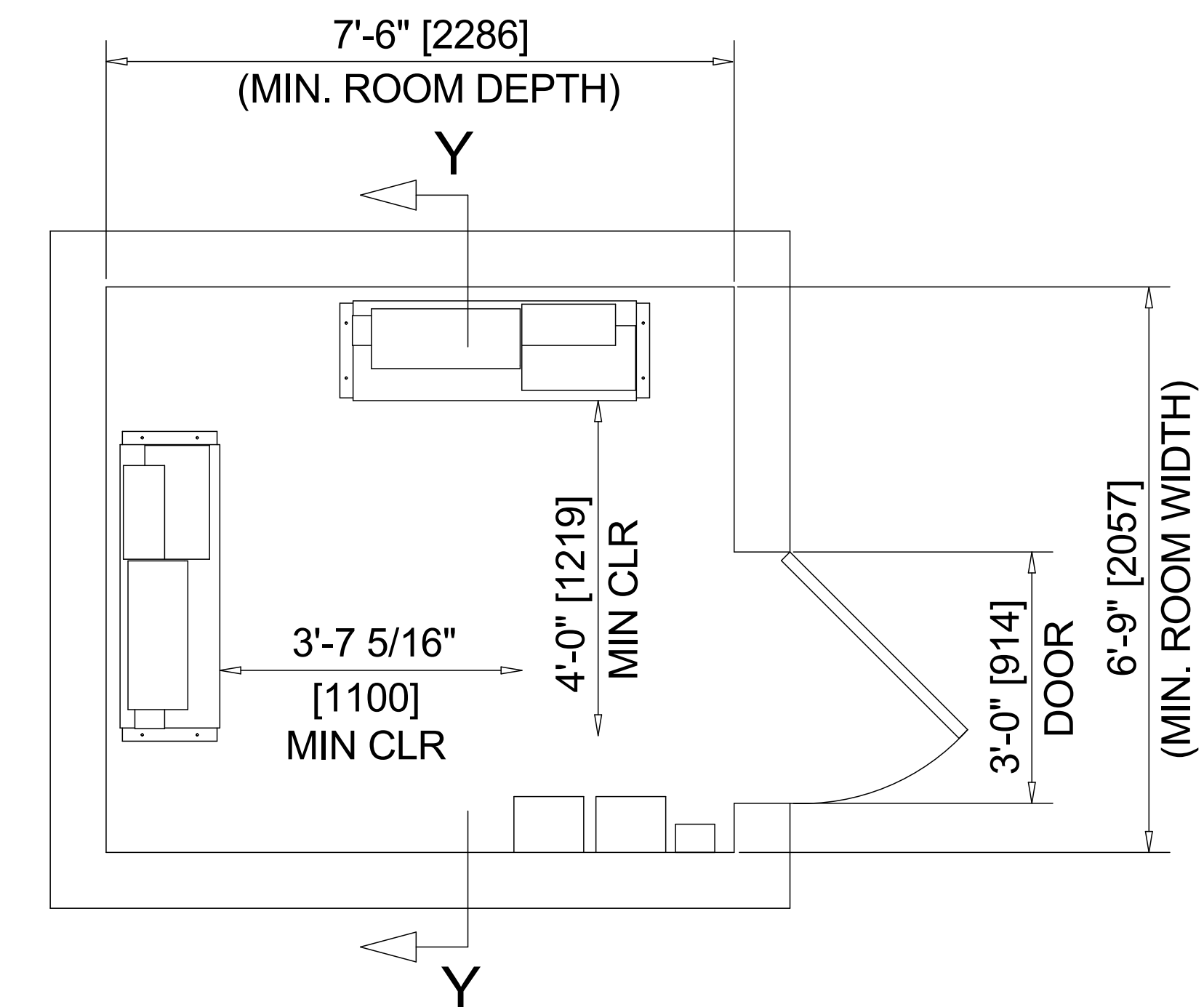
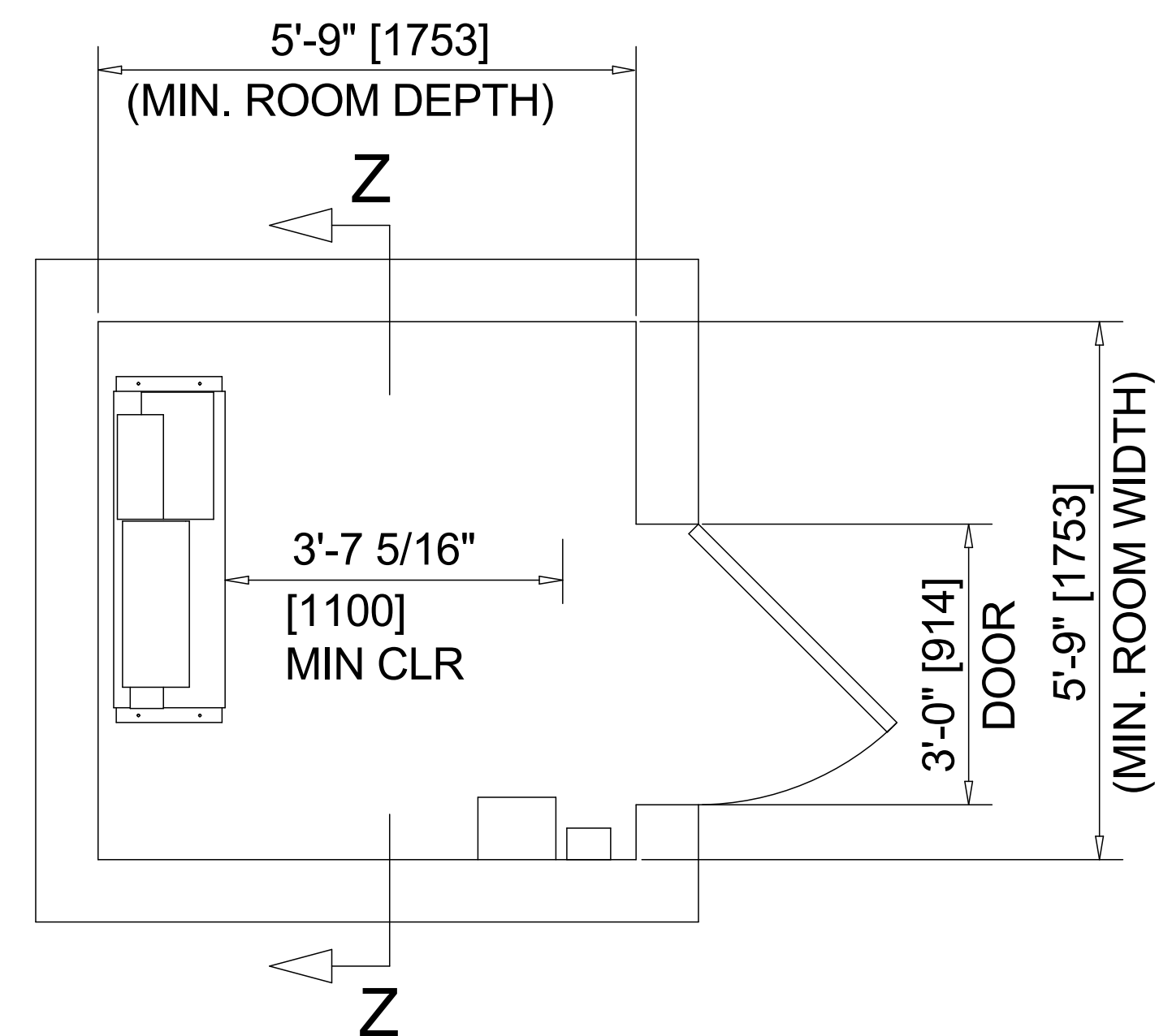
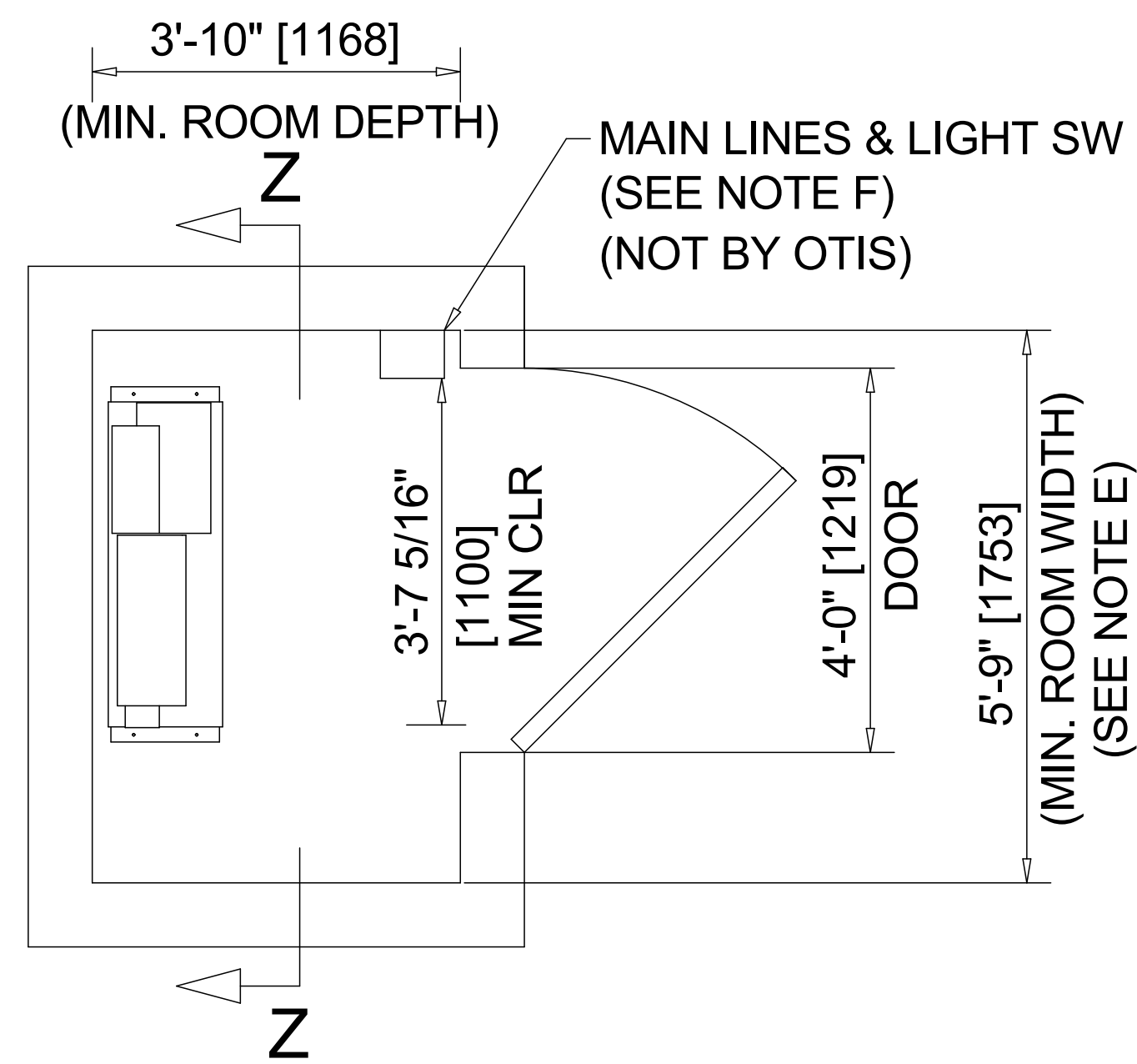
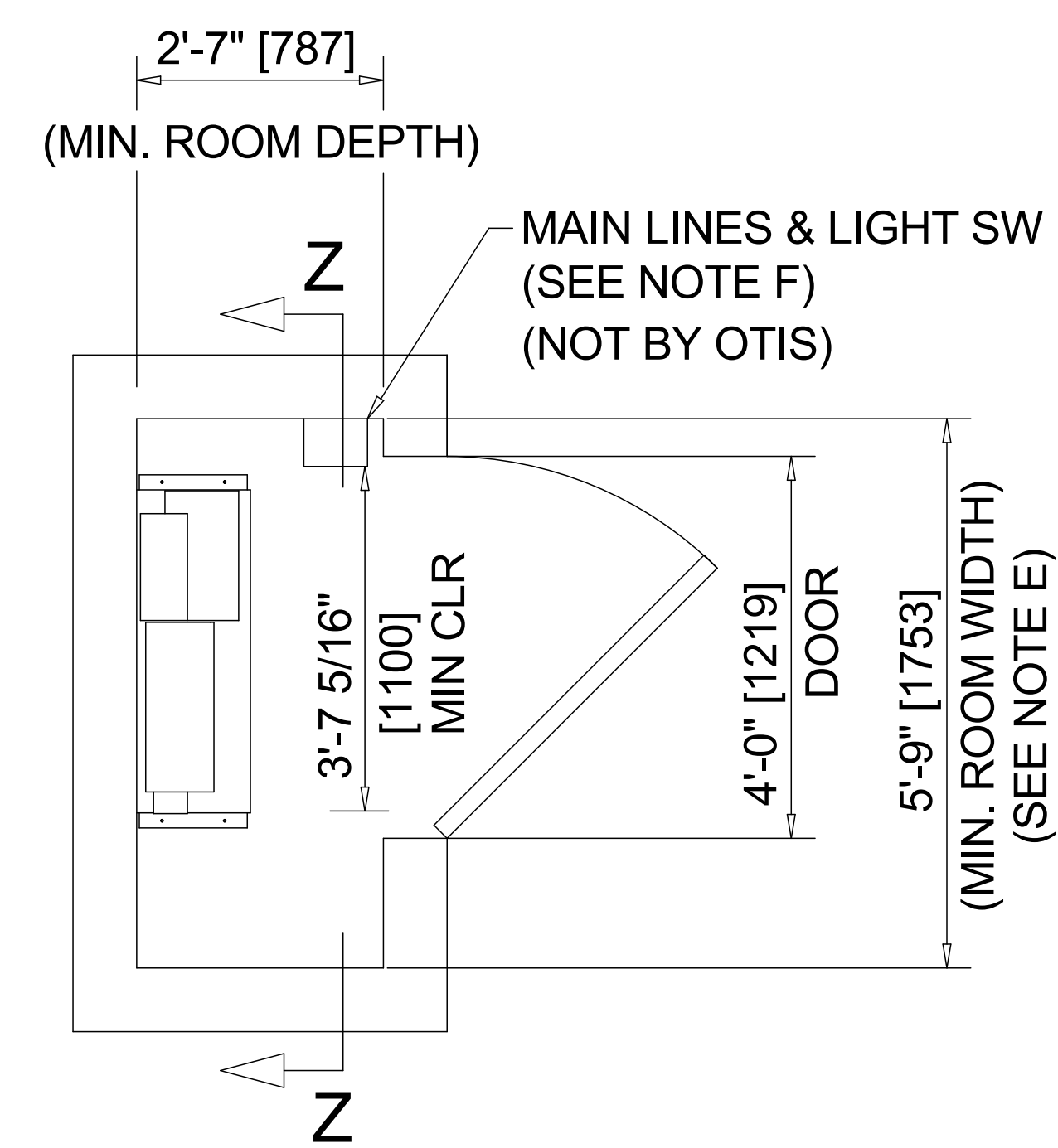
LOCATION

CONT. WITH

OWNER

ARCHT.

CONTRACT NO.



APPROVAL
THIS ARRANGEMENT AND
SUPPLEMENTARY NOTES APPROVED

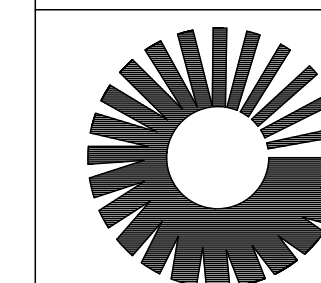
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**Gen2® 3500 #
350 F.P.M.**

CAR TYPE = PASSENGER CONTROLLER LOCATION = ROOM
SEISMIC = ZONE0 GLASS BACK CAR = N



A United Technologies Company

REVISION DATE: 3/2/2018	SHEET 4 OF 4
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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.

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)
PASSENGER	2000 (907)	SSP	7'-4" (2235)	7'-8" (2337)	6'-8" (2032)	5'-8½" (1740)	4'-3¼" (1302)	3'-0" (914)
	2500 (1134)	SSP-CO	8'-4" (2540)	8'-8" (2642)	6'-8" (2032)	6'-8½" (2045)	4'-3¼" (1302)	3'-6" (1067)
	3000 (1361)	SSP-CO	8'-4" (2540)	8'-8" (2642)	7'-2" (2184)	6'-8½" (2045)	4'-9¼" (1454)	3'-6" (1067)
	3500 (1588)	SSP-CO	8'-4" (2540)	8'-8" (2642)	7'-10" (2388)	6'-8½" (2045)	5'-5¼" (1657)	3'-6" (1067)
	4000 (1814)	CO	9'-4" (2845)	9'-8" (2946)	7'-10" (2388)	7'-8½" (2350)	5'-5¼" (1657)	4'-0" (1219)

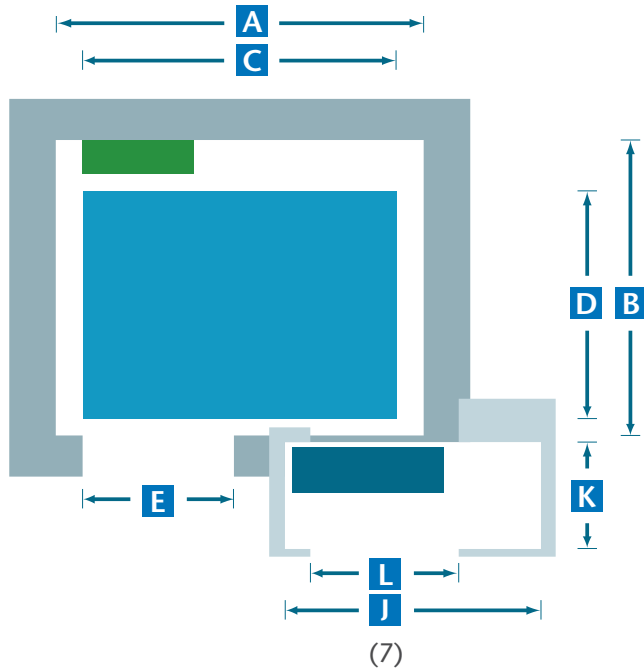
CLEAR OVERHEAD H AND PIT DEPTH I												
200 FPM (1.00 M/S)				350 FPM (1.78 M/S)				500 FPM (2.54 M/S)				
	I	I SEISMIC	H	H SEISMIC	I	I SEISMIC	H	H SEISMIC	I	I SEISMIC	H	H SEISMIC
CAPACITY lbs. (kg)	PIT DEPTH (mm)	PIT DEPTH (mm)	CLEAR OVERHD (mm)	CLEAR OVERHD (mm)	PIT DEPTH (mm)	PIT DEPTH (mm)	CLEAR 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)

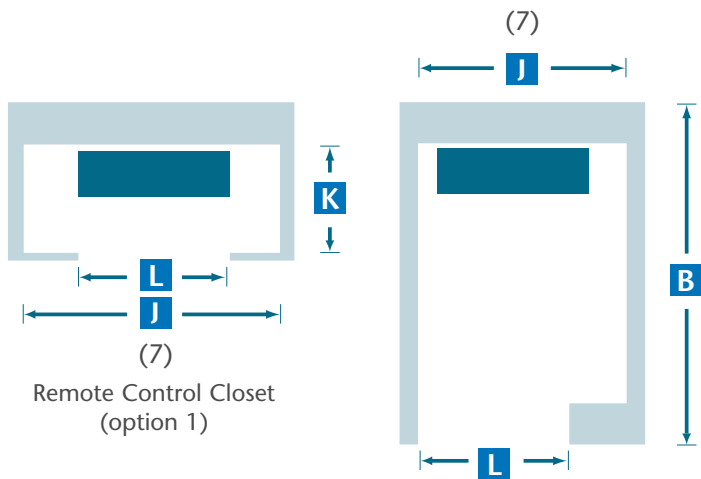
Notes

- (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.

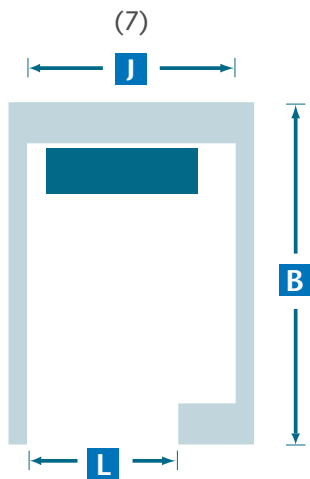
Plan views



Integral Control Closet (standard)

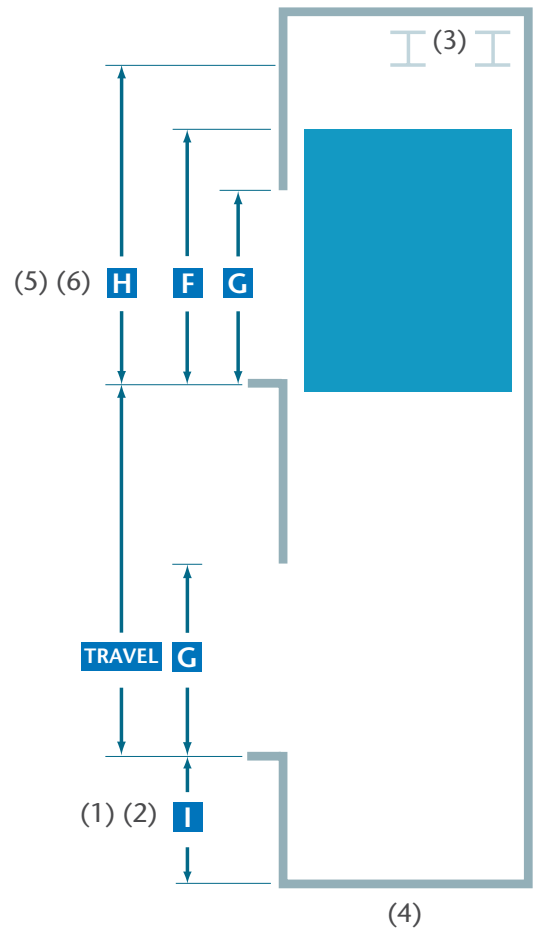


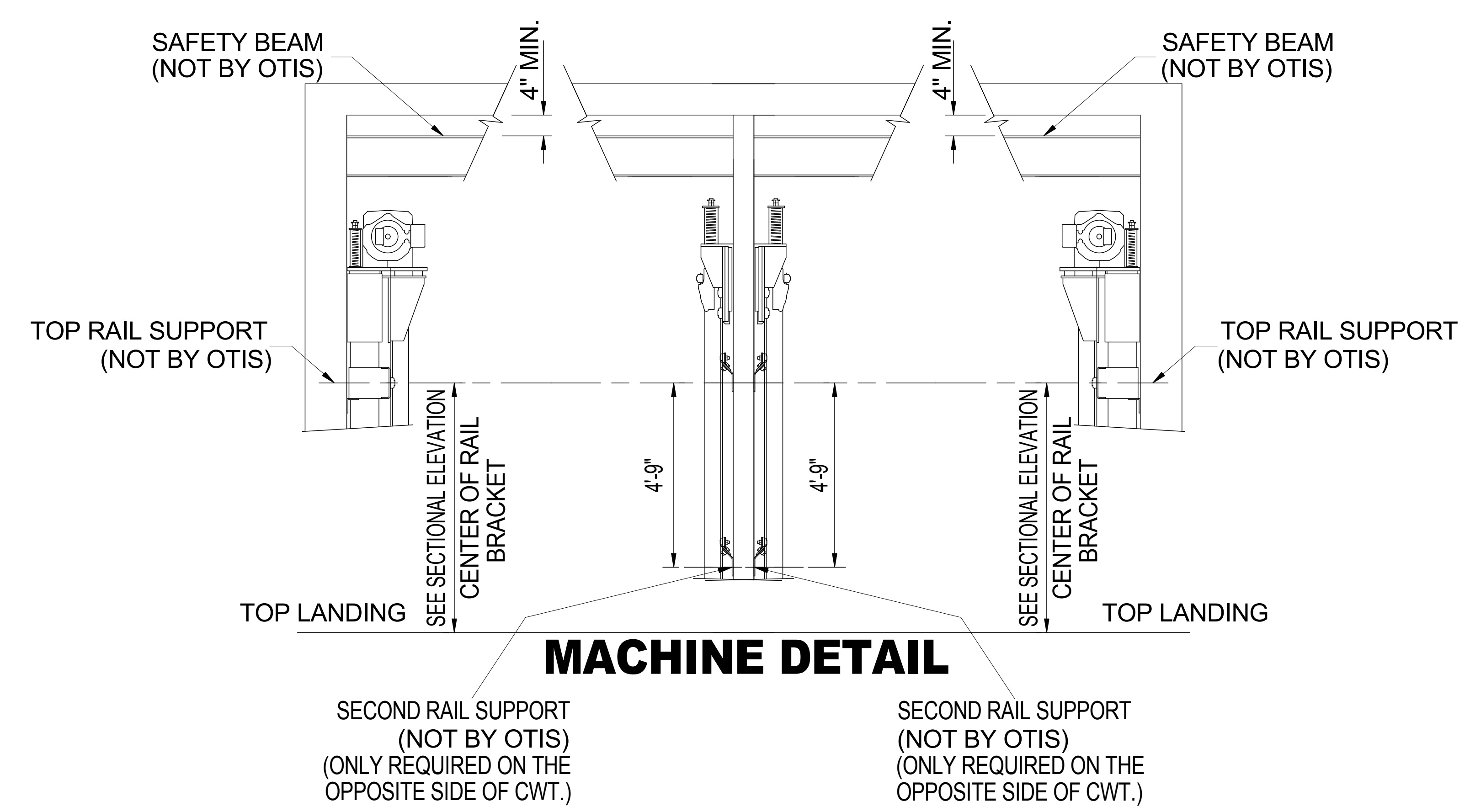
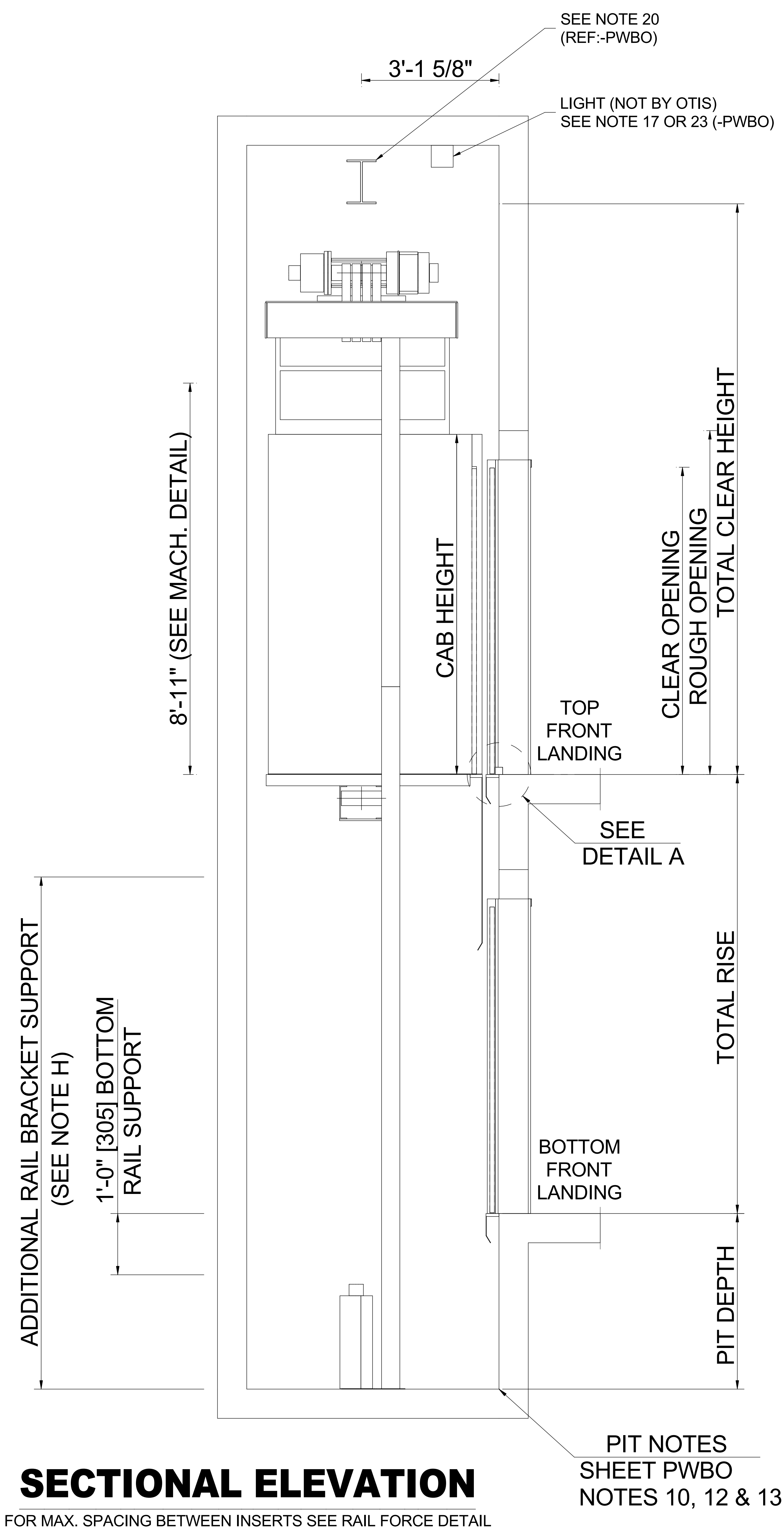
Remote Control Closet
(option 1)



Adjacent or
Remote Control Room
(option 2)

Section view

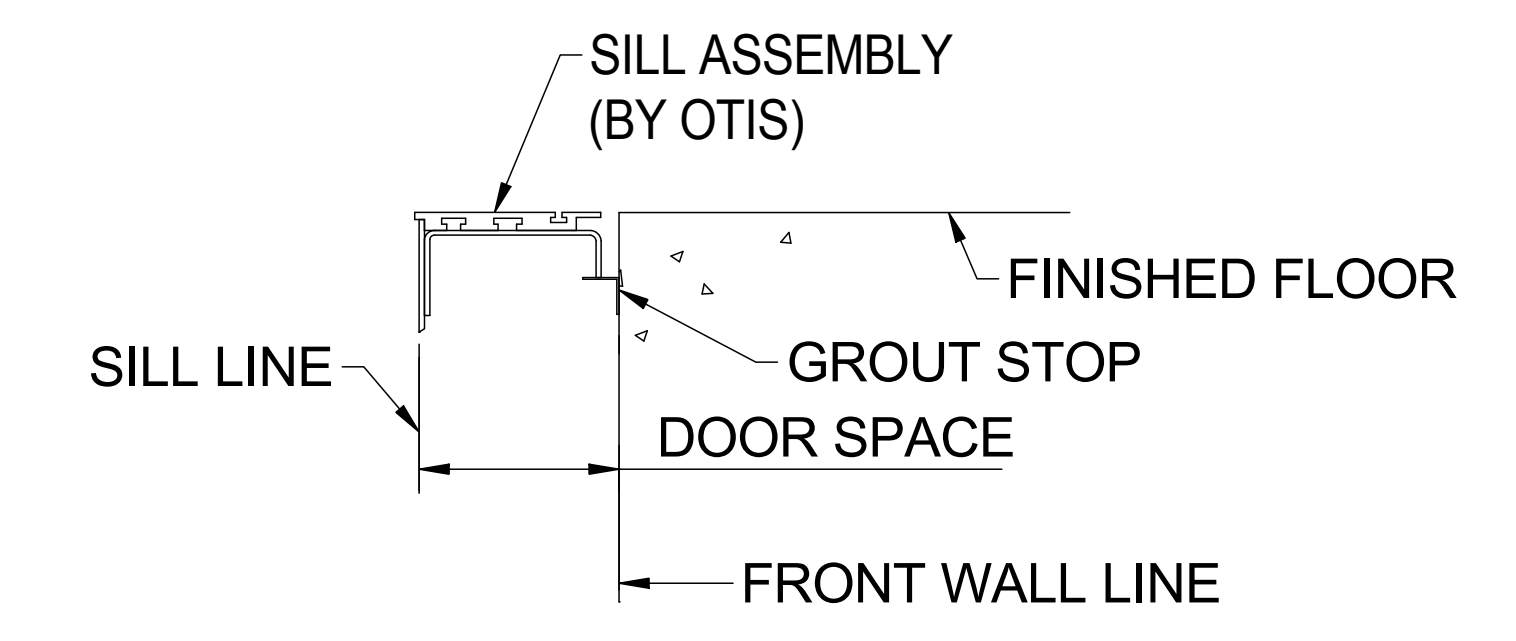




	<= 2007 CODE YEAR		> 2009 CODE YEAR	
	CAB HEIGHT		CAB HEIGHT	
	7'-9"	9'-9"	7'-9"	9'-9"
MIN RISE	10'-2"			
MAX RISE	80'-0"			
MIN. TOTAL CLEAR HEIGHT	13'-0"	15'-0"	12'-10"	14'-10"
MAX. TOTAL CLEAR HEIGHT	MIN CLEAR HEIGHT + 2'-0" [609.6mm]			
PIT DEPTH	IF A17.7 IS ADOPTED THEN PIT DEPTH = 4'-0"			
	IF 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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2100 #
150 F.P.M.

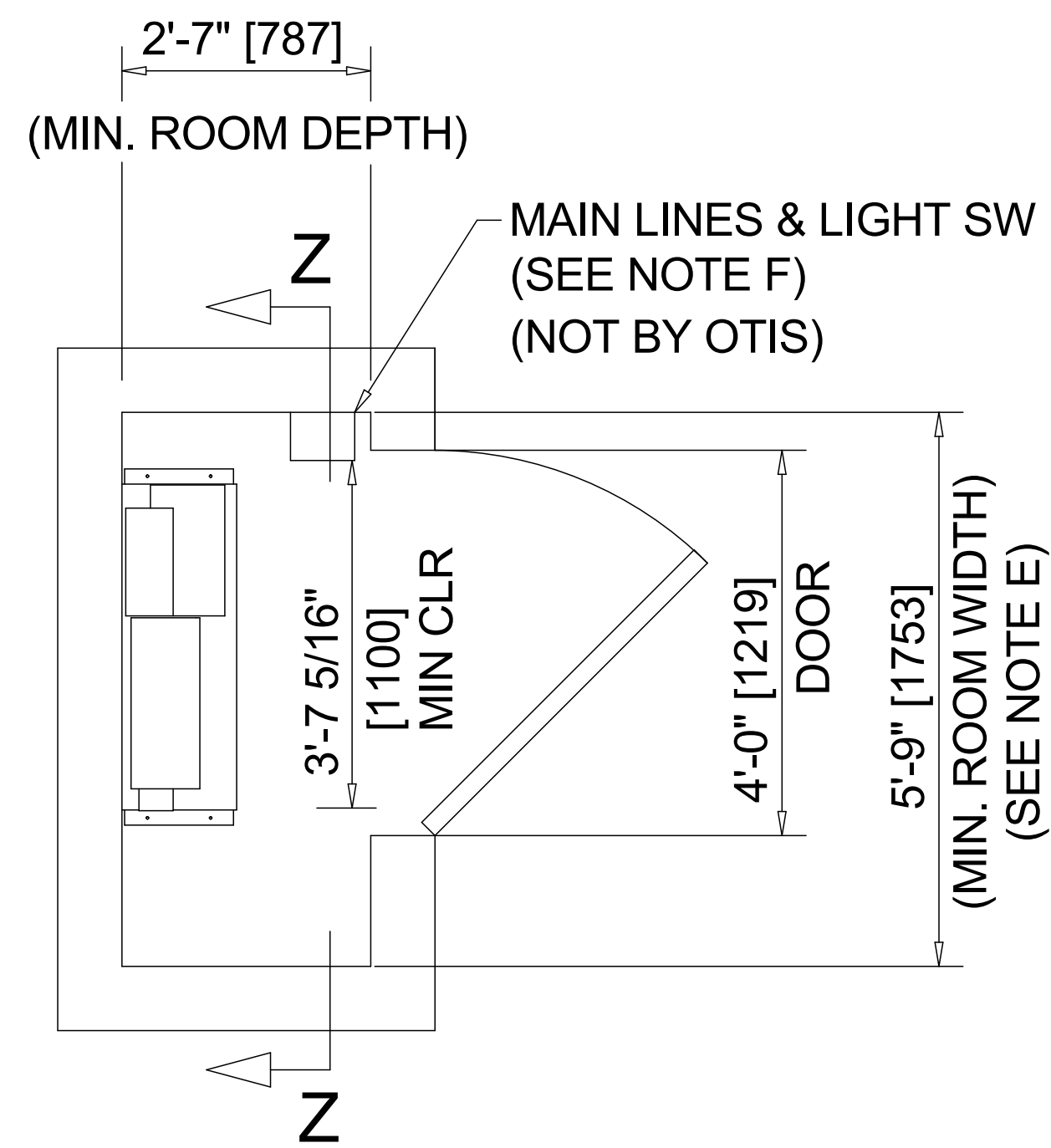
CAR TYPE = PASSENGER
SEISMIC = ZONEO

CONTROLLER LOCATION = ROOM
GLASS BACK CAR = N

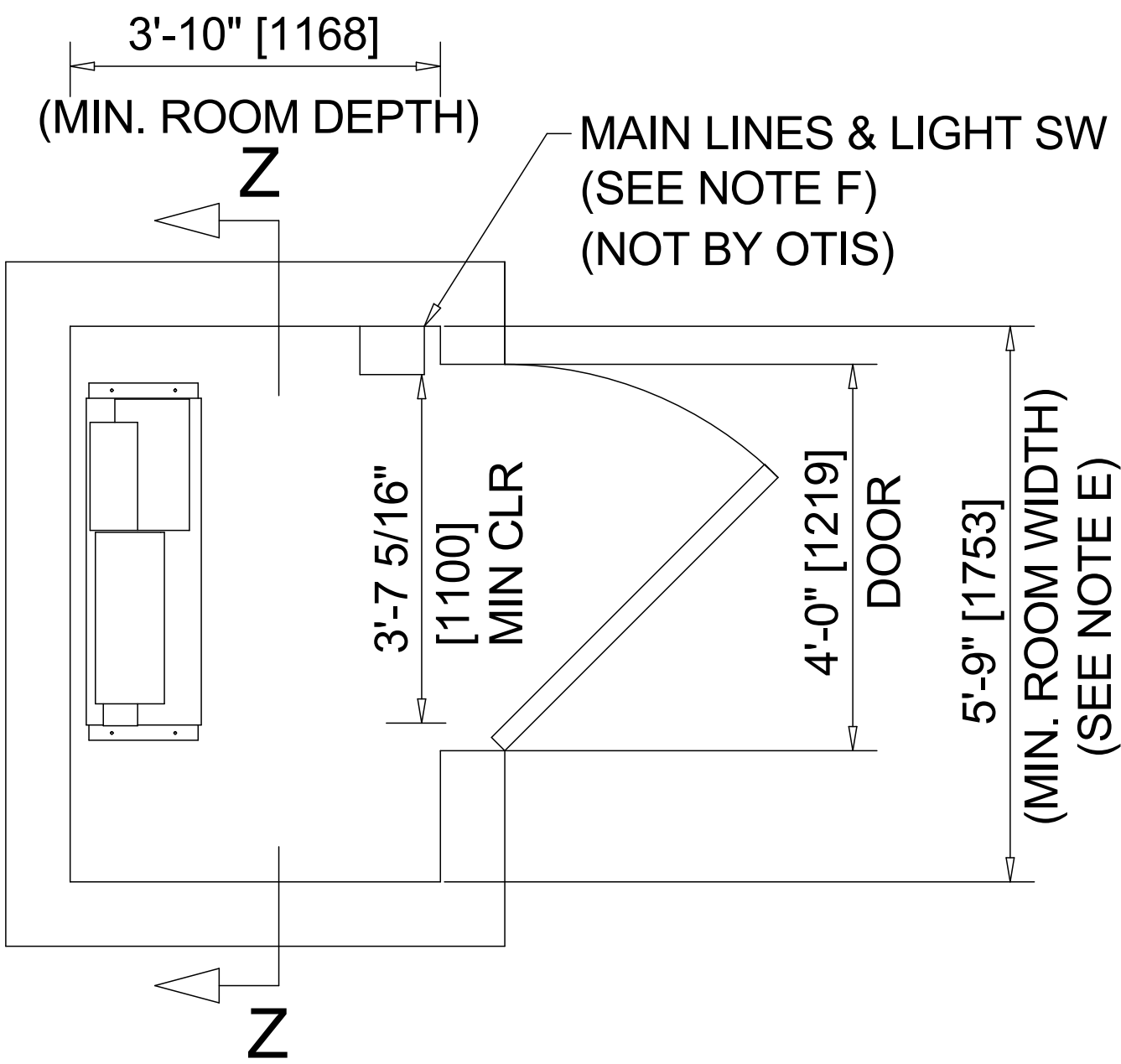


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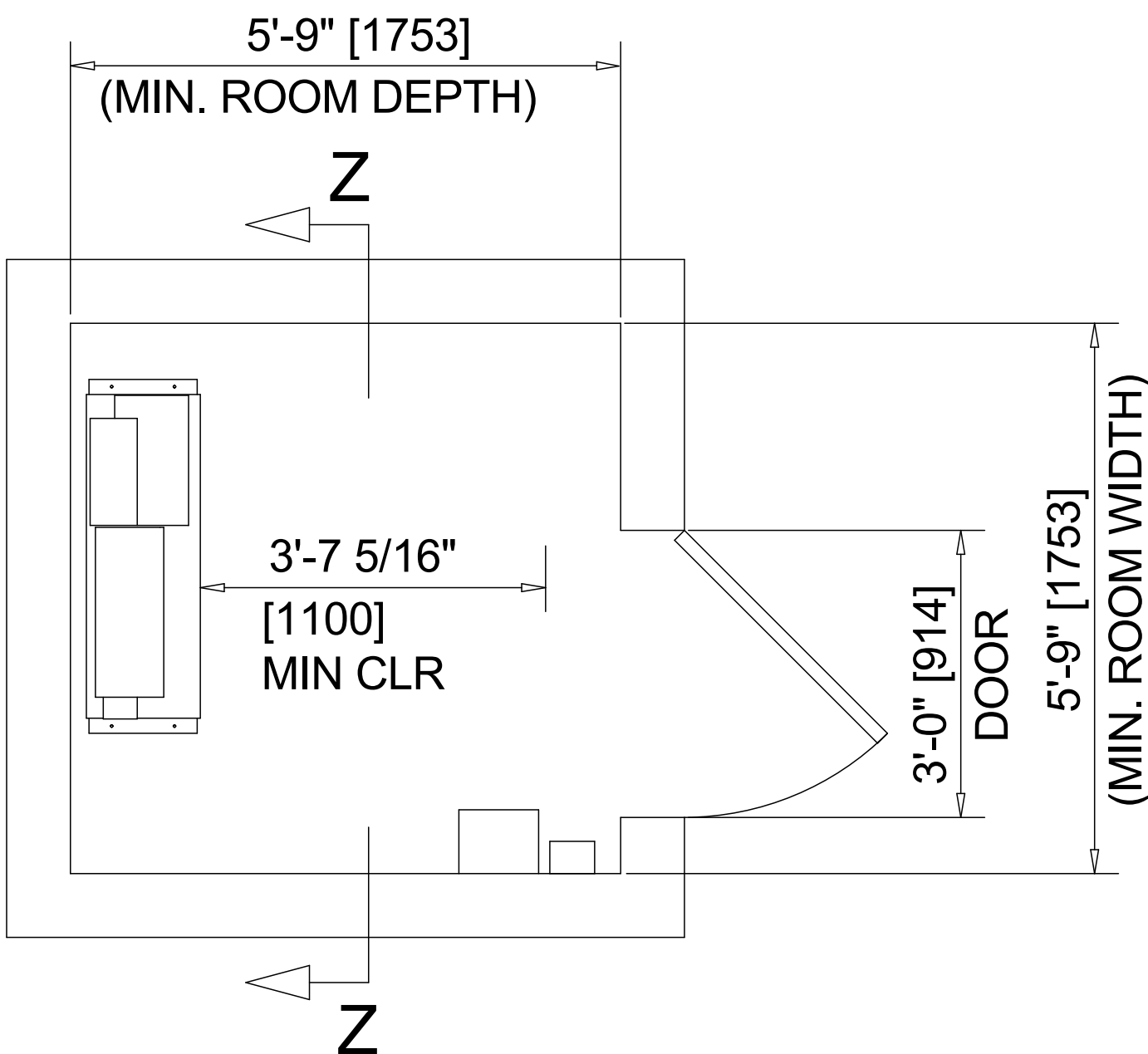
REVISION DATE: 3/2/2018	SHEET 3 OF 4
DWG. NO.: G2S 2100-EL	
BUILDING LOCATION	
CONT. WITH	
OWNER	
ARCHT.	
CONTRACT NO.	



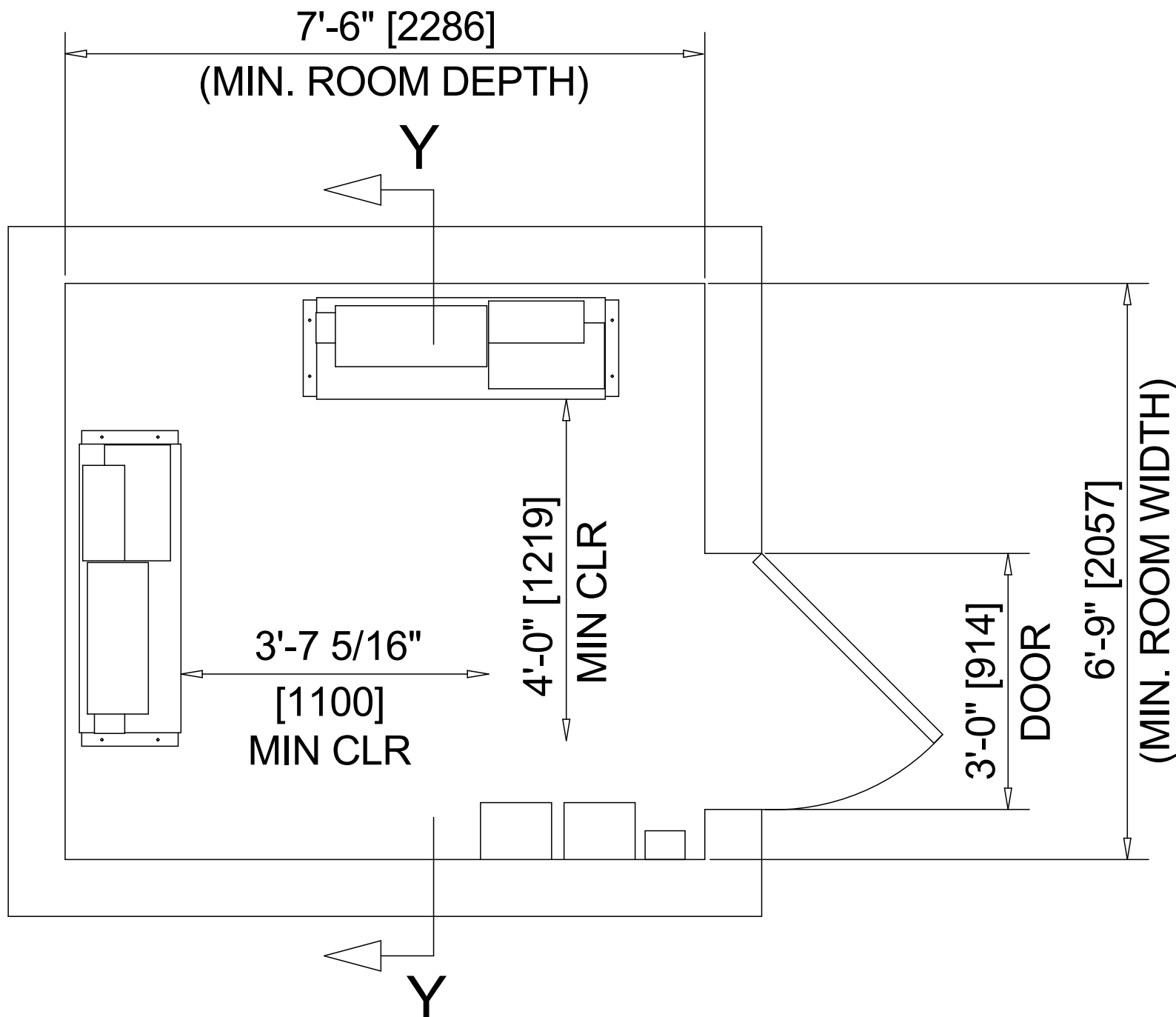
MINIMUM CONTROL
SPACE REQUIREMENTS
ONE CAR
WITHOUT AUTOMATIC
RECOVERY OPERATION



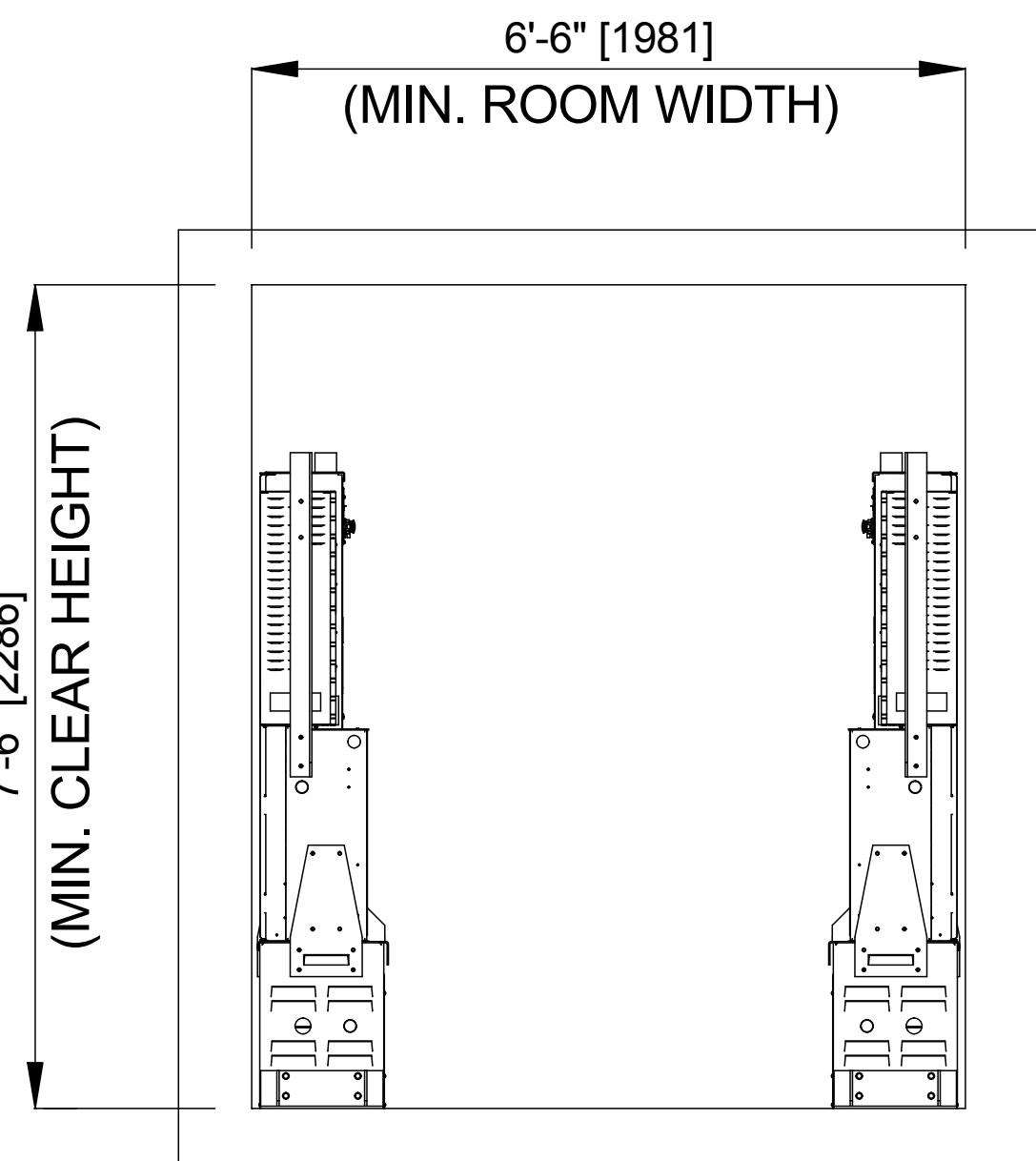
MINIMUM CONTROL
SPACE REQUIREMENTS
ONE CAR
WITH AUTOMATIC
RECOVERY OPERATION



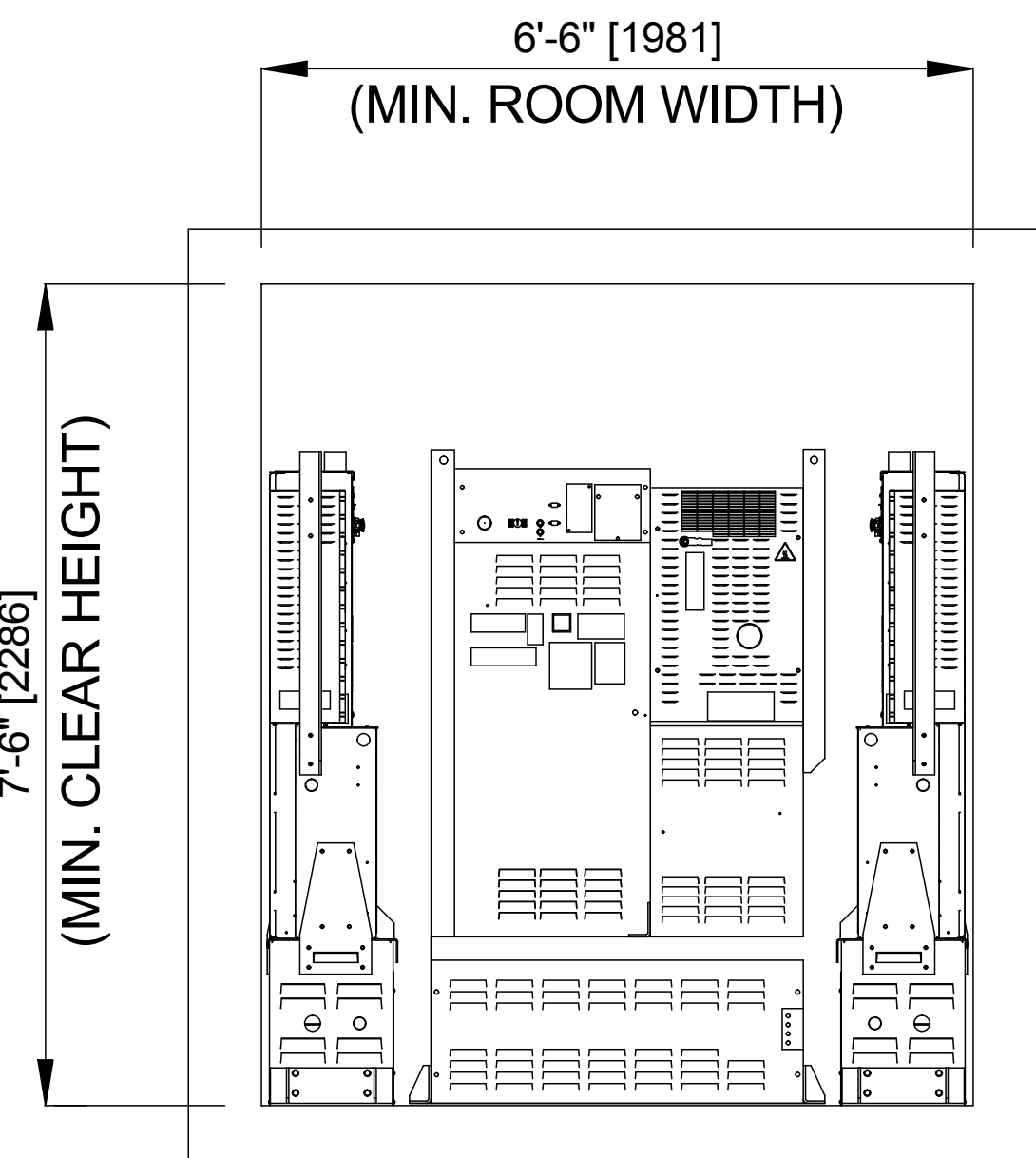
MINIMUM CONTROL
ROOM REQUIREMENTS
ONE CAR



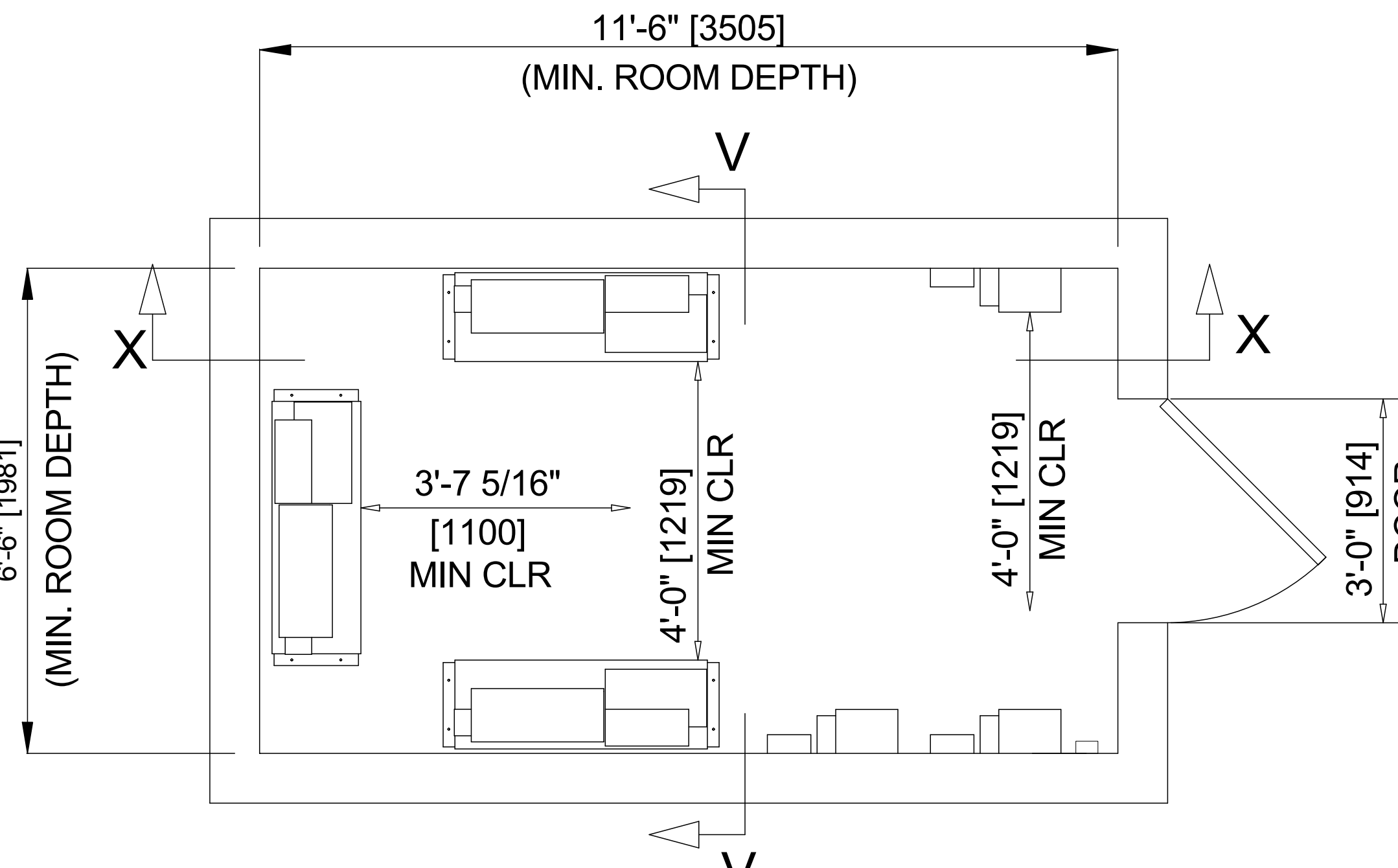
MINIMUM CONTROL
ROOM REQUIREMENTS
TWO CARS



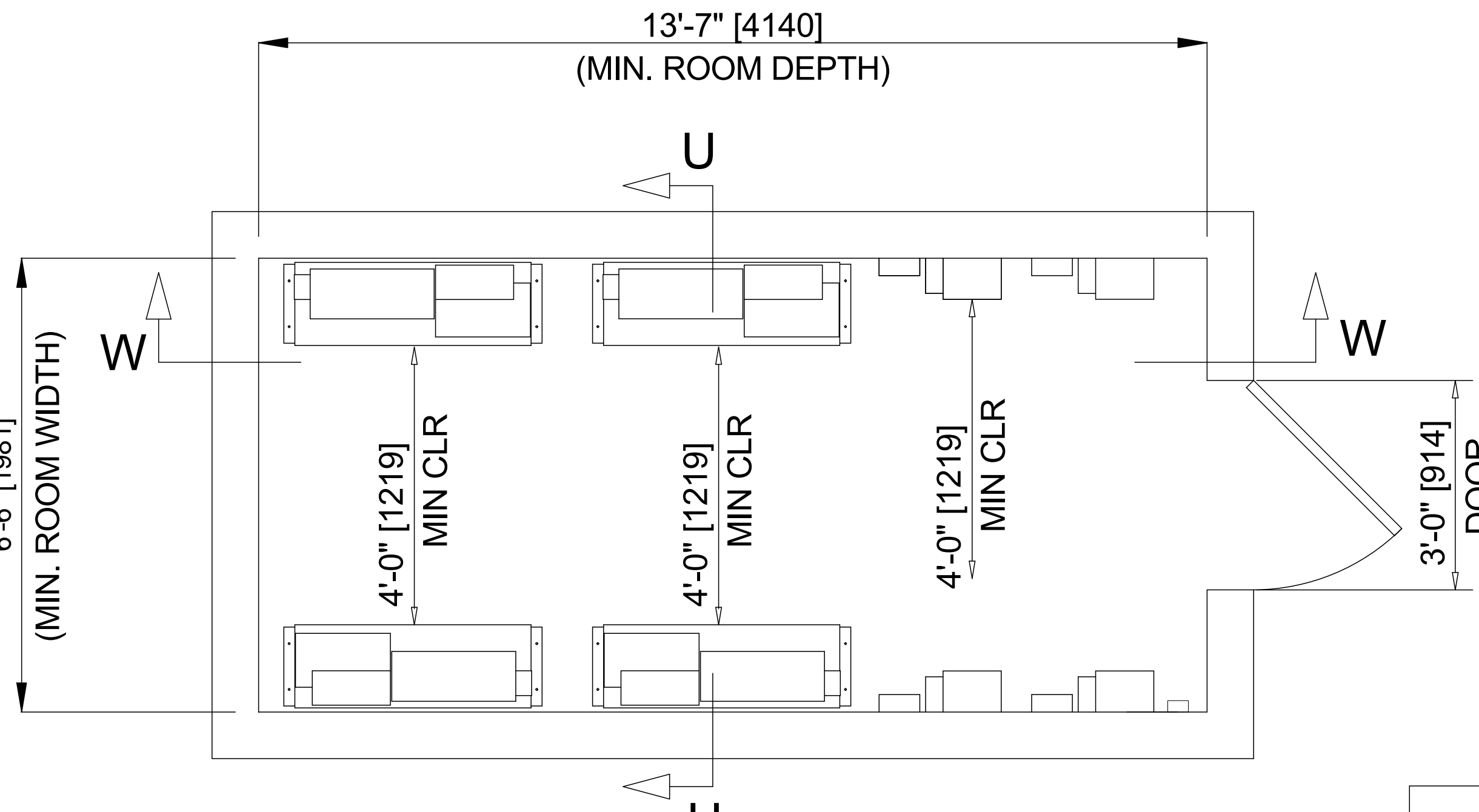
SECTION U - U



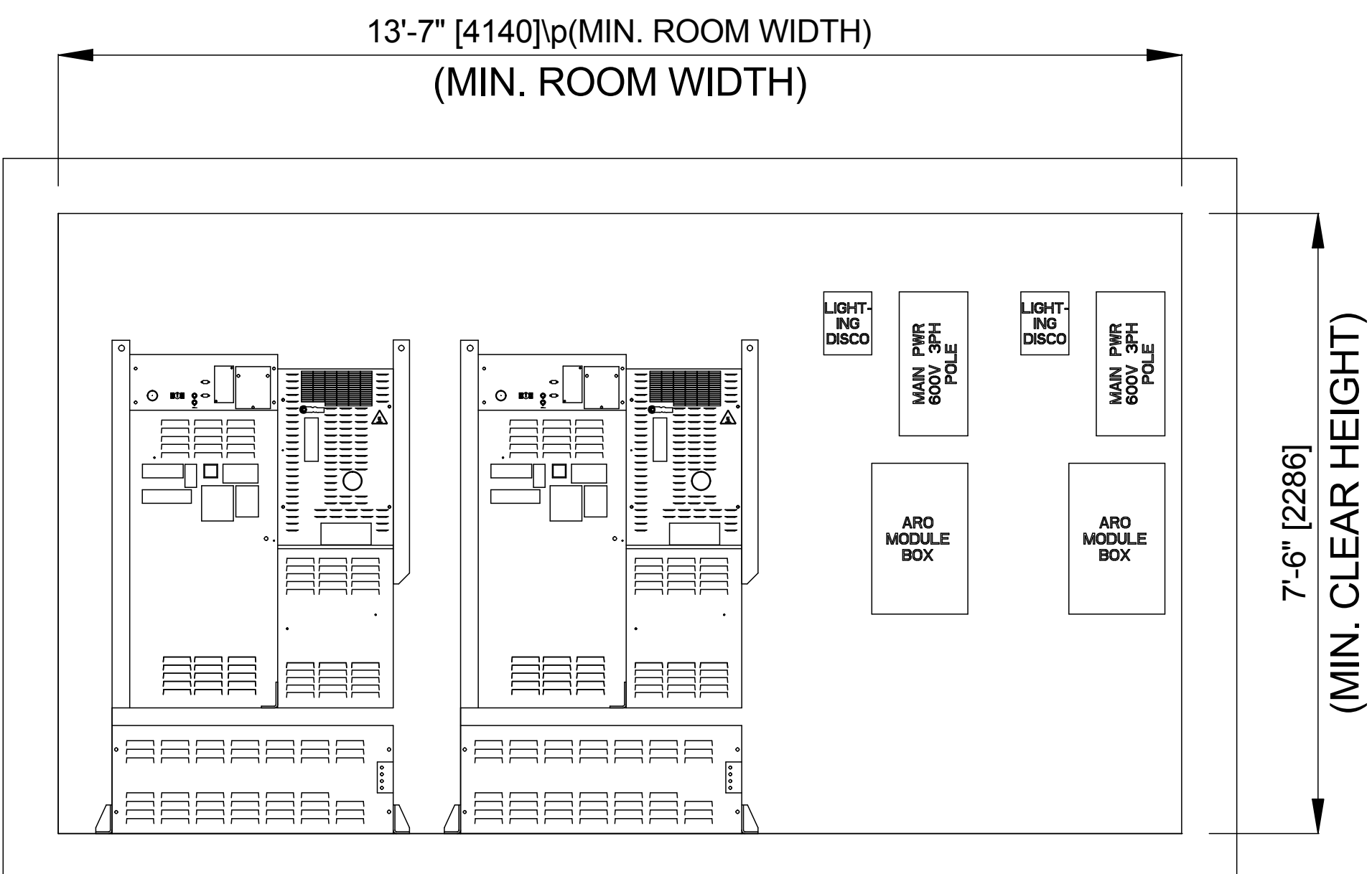
SECTION V - V



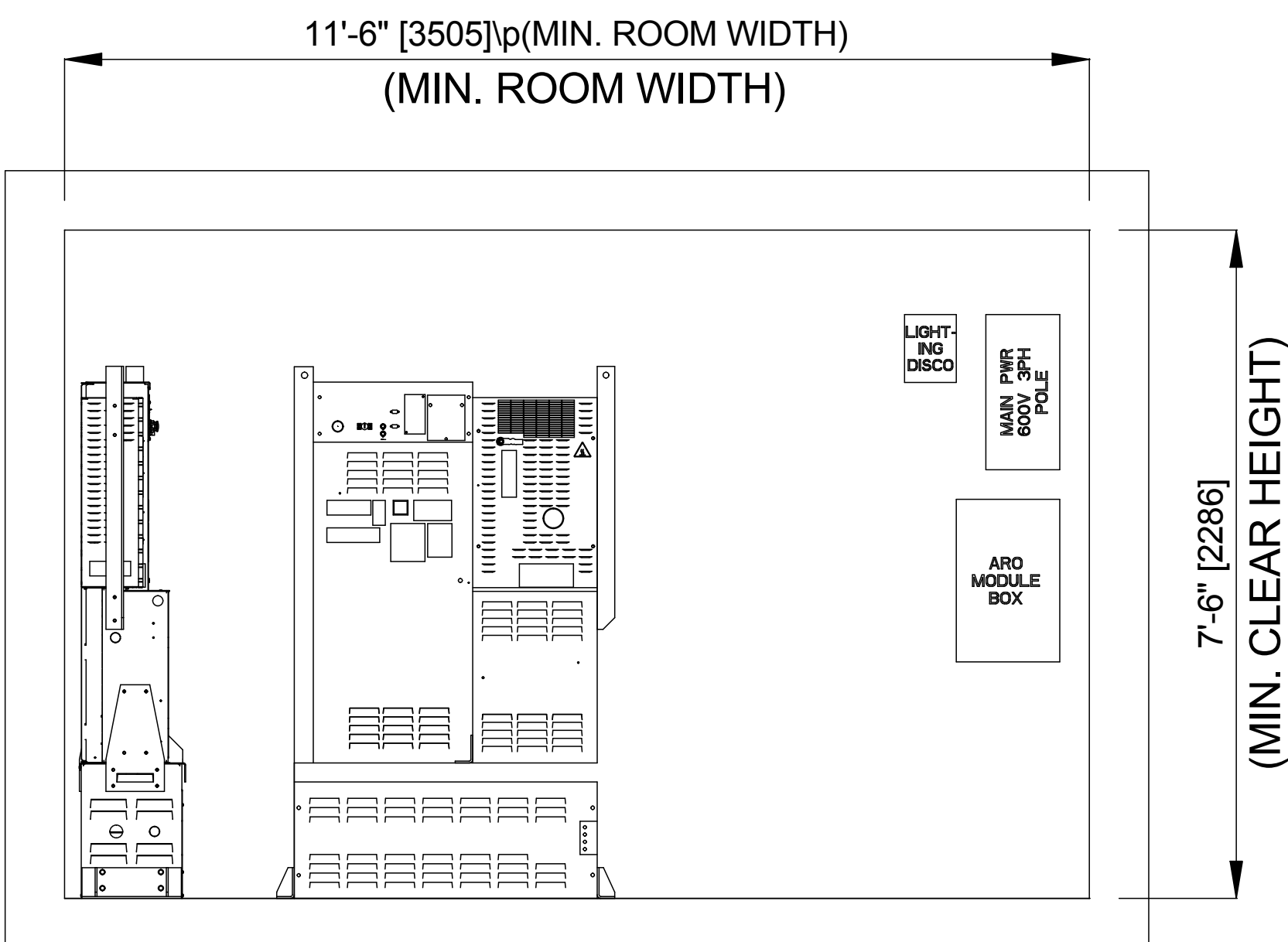
MINIMUM CONTROL
ROOM REQUIREMENTS
THREE CARS



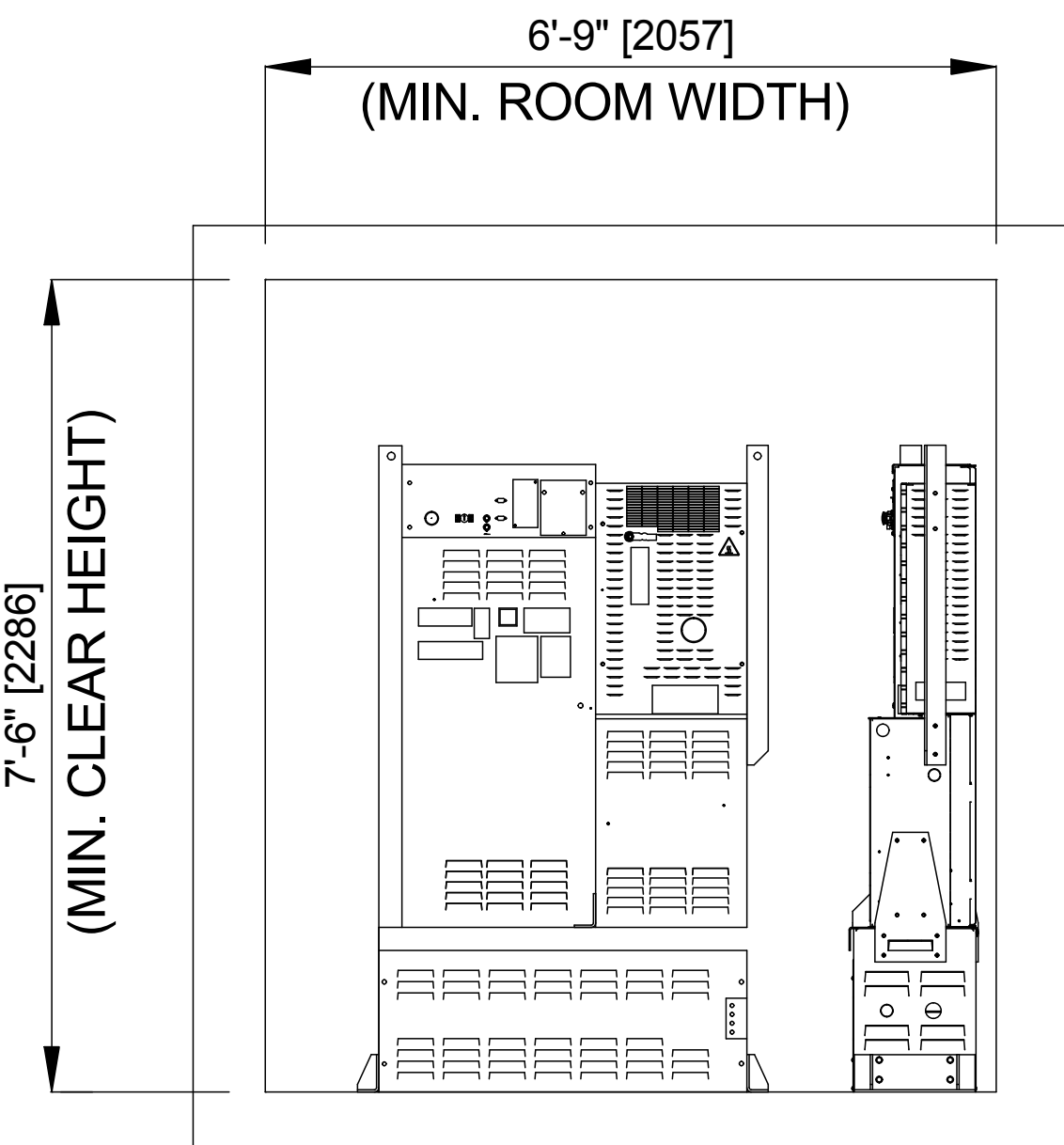
MINIMUM CONTROL
ROOM REQUIREMENTS
FOUR CARS



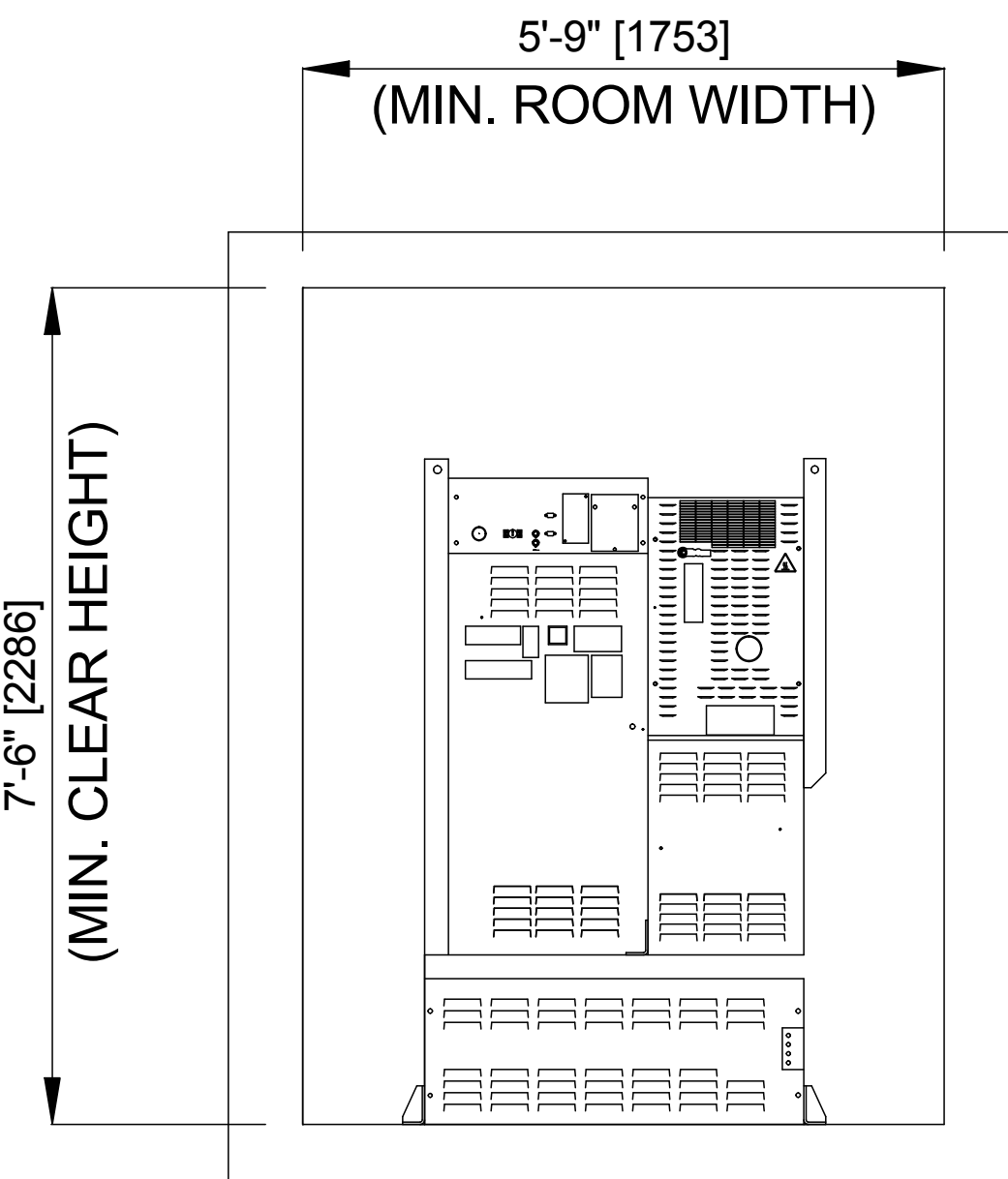
SECTION W - W



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 = ZONE0 **GLASS BACK CAR = N**

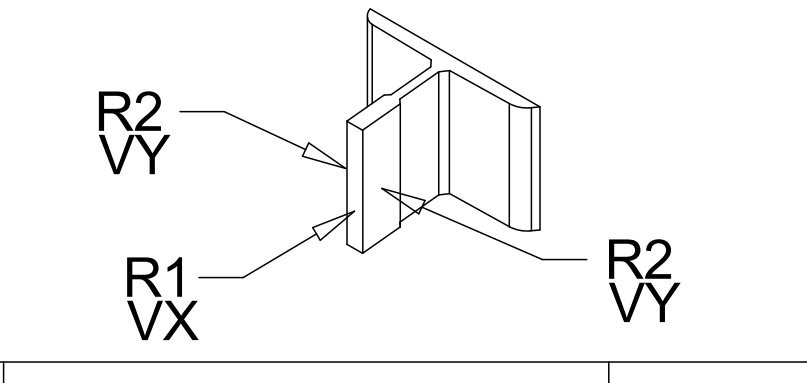
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REVISION DATE: 3/2/2018 SHEET 4 OF 4

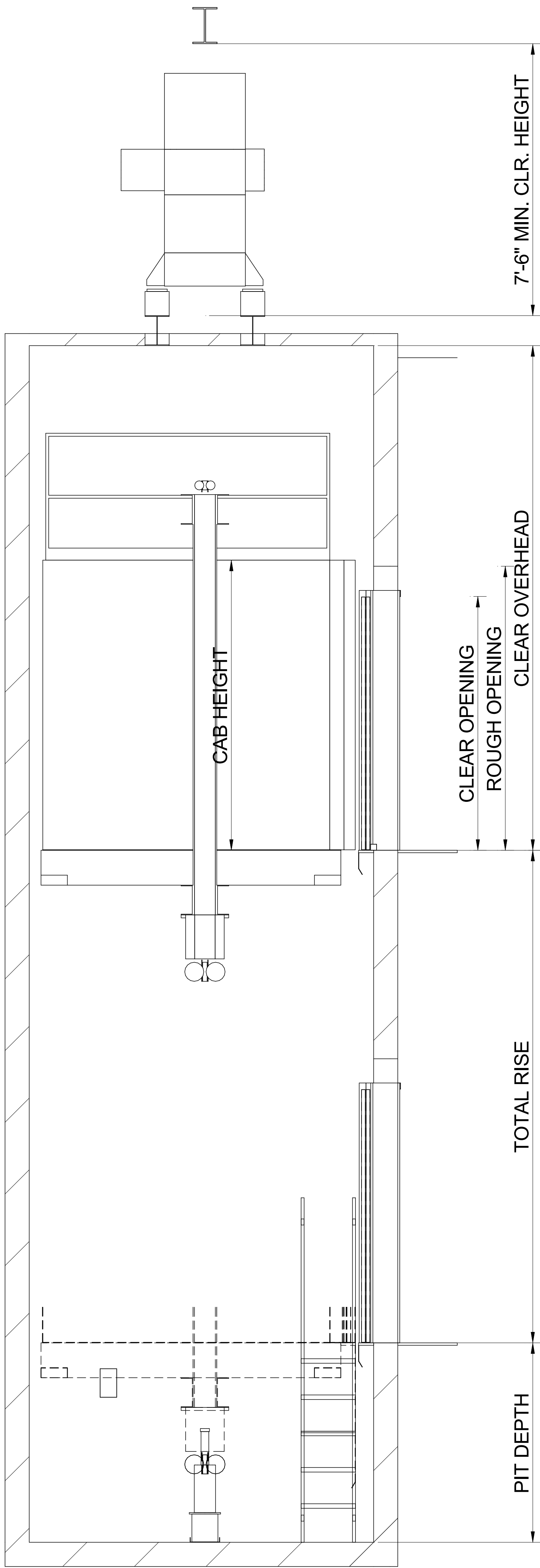
DWG. NO.: **G2S 2100-CR**

BUILDING
LOCATION
CONT. WITH
OWNER
ARCHT.
CONTRACT NO.

[illegible]

RAIL FORCE & BRACKET SPACING DETAIL		
		
CAR	R1 (LBS.)	508
	R2 (LBS.)	177
	VX (LBS.)	2672
	VY (LBS.)	1336
	MAXIMUM BRACKET SPACING	13'-7"
	RAIL SIZE	#1
CWT	R1 (LBS.)	259
	R2 (LBS.)	28
	VX (LBS.)	2791
	VY (LBS.)	1395
	MAXIMUM BRACKET SPACING	13'-7"
	RAIL SIZE	#1-1/2

CAR R1 = SAFETY APPLICATION
CWT R1 = SAFETY APPLICATION
R2 = LOADING OR RUNNING
REQUIREMENTS FOR RAIL BRACKET
SUPPORT (NOT BY OTIS):
DEFLECTION NOT TO EXCEED 1/8"
BASED ON HORIZONTAL RAIL FORCES.



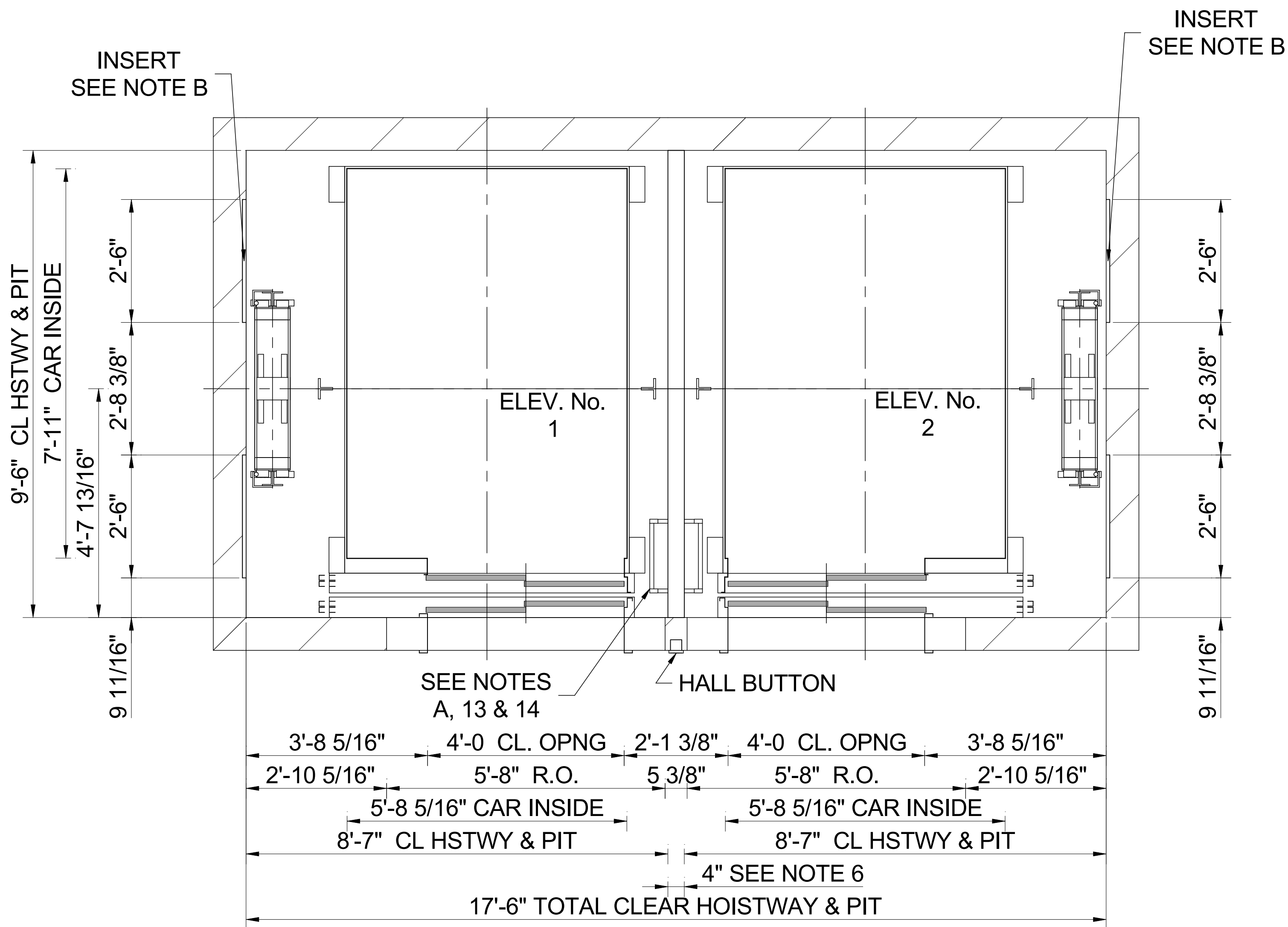
SECTIONAL ELEVATION

FOR MAX. SPACING BETWEEN INSERTS SEE RAIL FORCE DETAIL

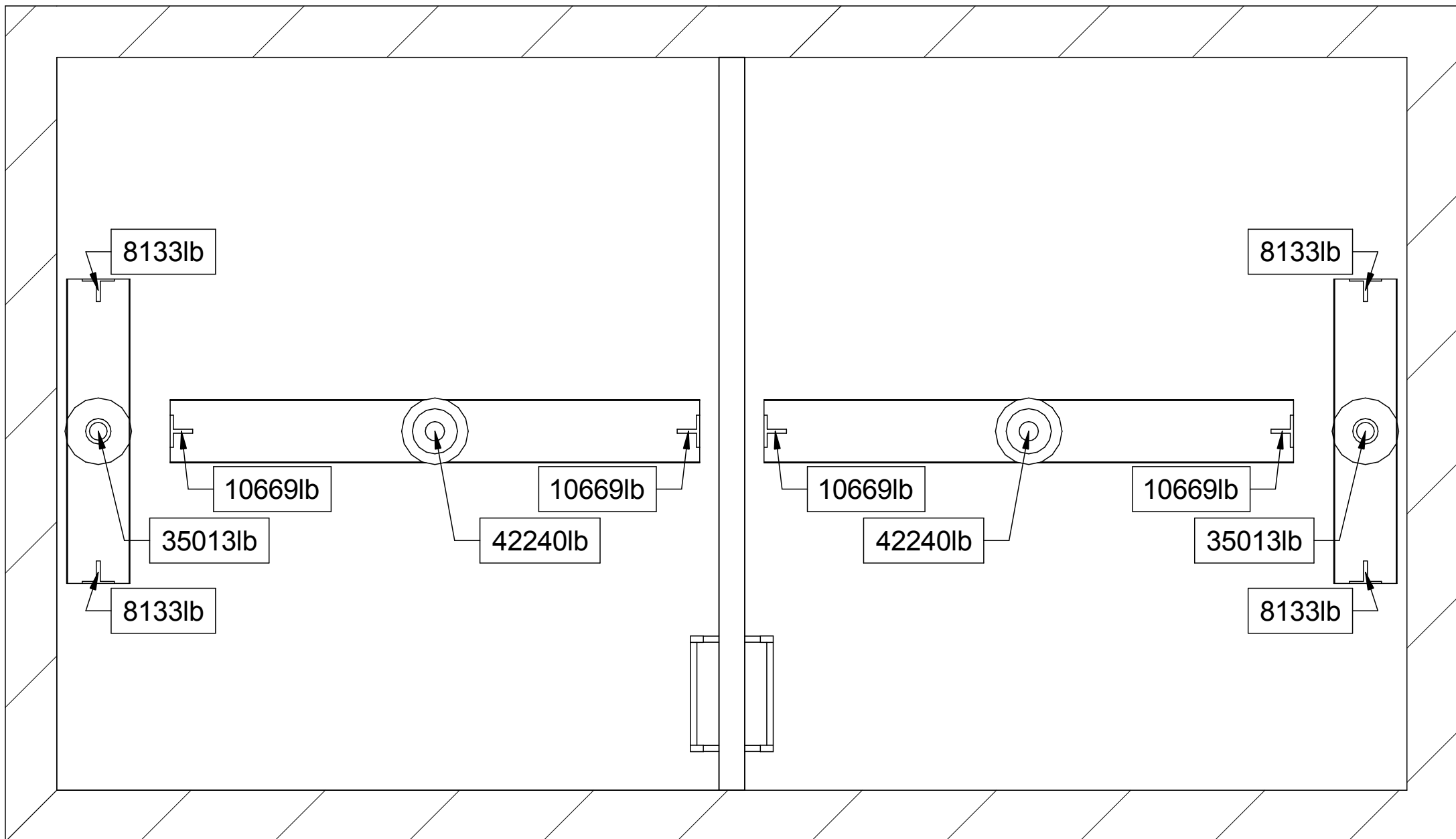
* COUNTERWEIGHT SAFETIES ARE REQUIRED WHEN OCCUPIED SPACE EXISTS BELOW THE PIT, PER ASME A17.1 SECTION 2.6.

	CAB HEIGHT	
	8'-0"	9'-7"
MIN. "PIT DEPTH"	5'-6"	
MAX. "PIT DEPTH"	15'-6"	
MIN. "CLEAR OVERHEAD"	13'-11"	15'-6"
MIN. "TOTAL RISE"	20'-0"	
MAX. "TOTAL RISE"	302'-0"	

STANDARD WORKING RANGES

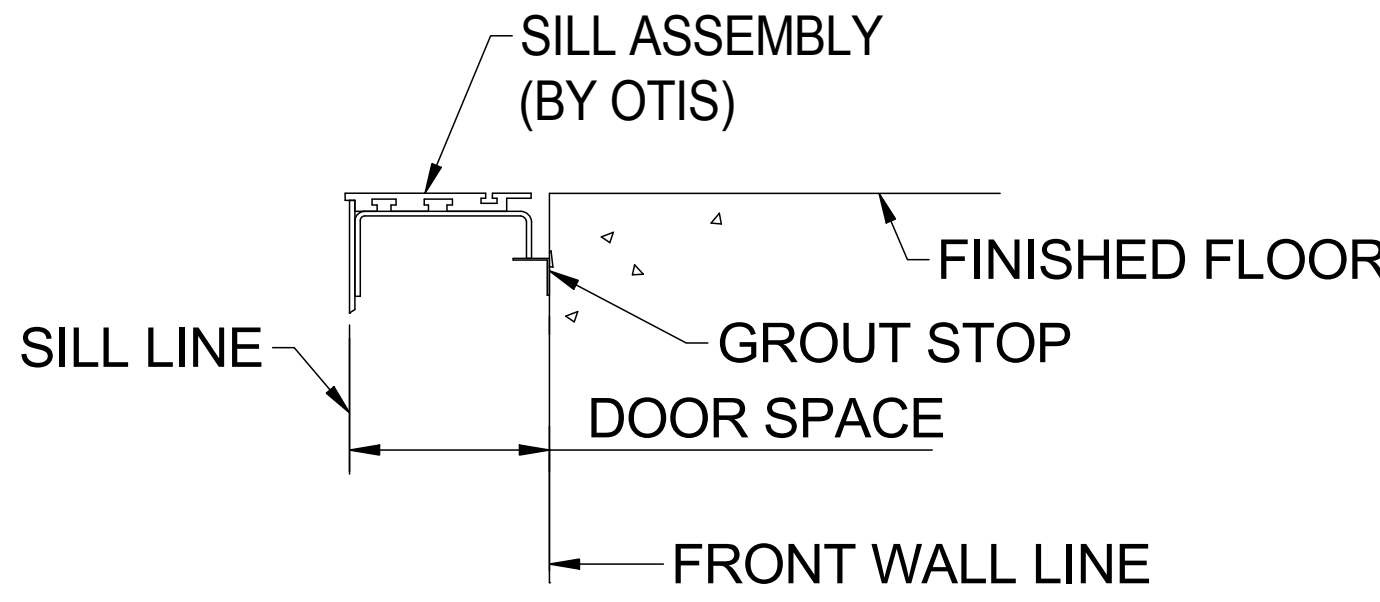


PLAN VIEW



PIT PLAN VIEW

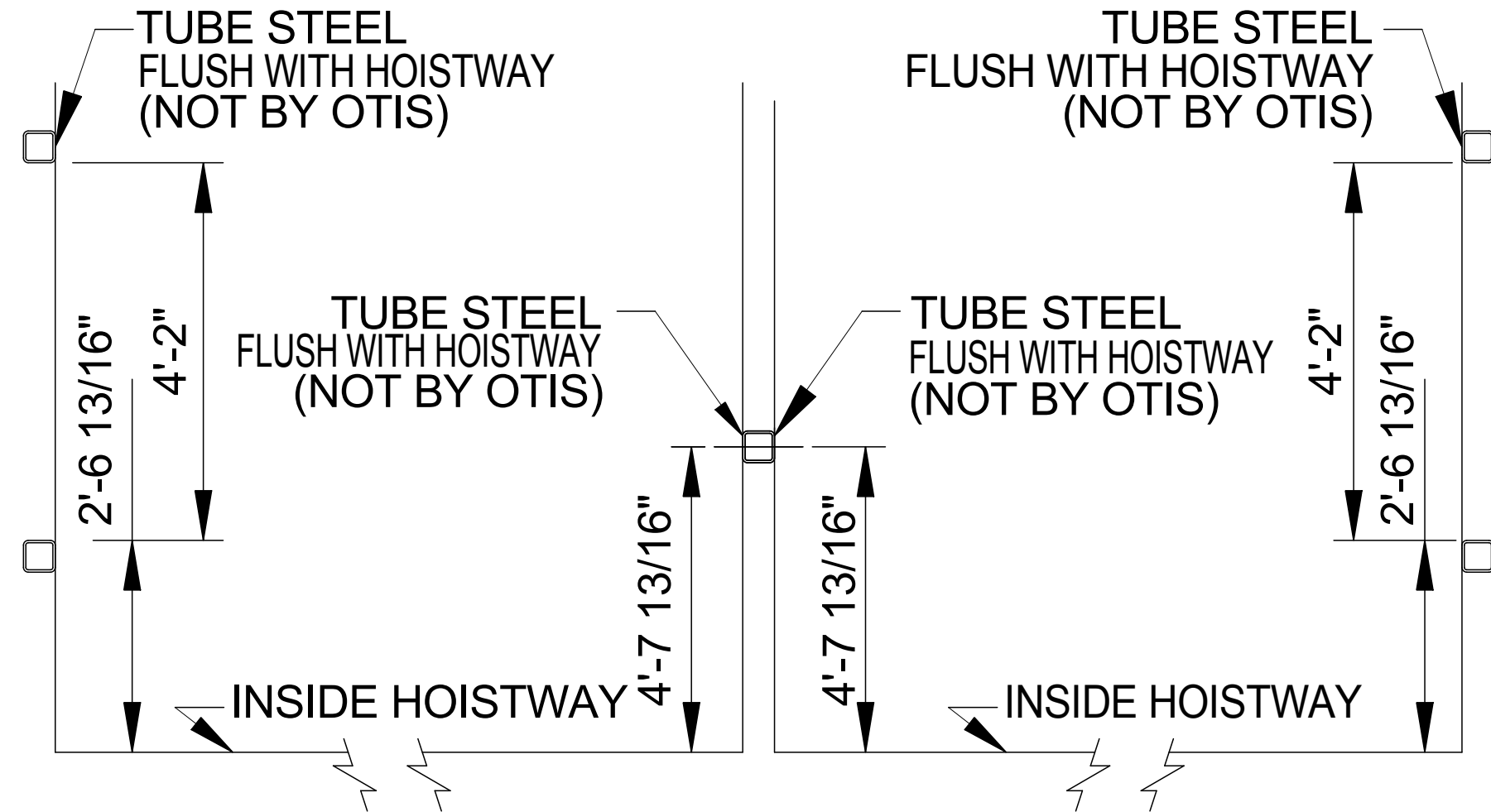
FORCE SHOWN INCLUDES DOUBLING
FOR IMPACT (SEE NOTE 11)



SEE NOTE 7

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 A
IF CUTOUT REQUIRED FOR PIT LADDER,
23" (WIDTH) X 2-1/2"(DEPTH) X PIT DEPTH + 4'-0"
OTIS REPRESENTATIVE TO CONFIRM YOUR SPECIFIC LOCATION.

NOTE B
THESE DIMENSIONS ARE BASED ON HOISTWAY SIZES SHOWN
& 30" INSERTS. IF EITHER OF THESE VARY, CONSULT THE
SALES REPRESENTATIVE.

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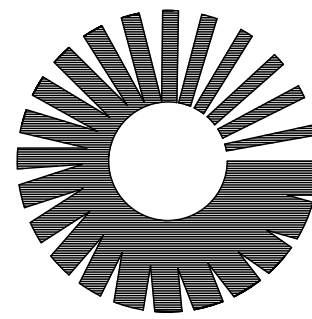
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**4500 #
350 F.P.M**

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



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REVISION DATE: SHEET 2 OF 4

DWG. NO.: GEN4535H-PN

BUILDING

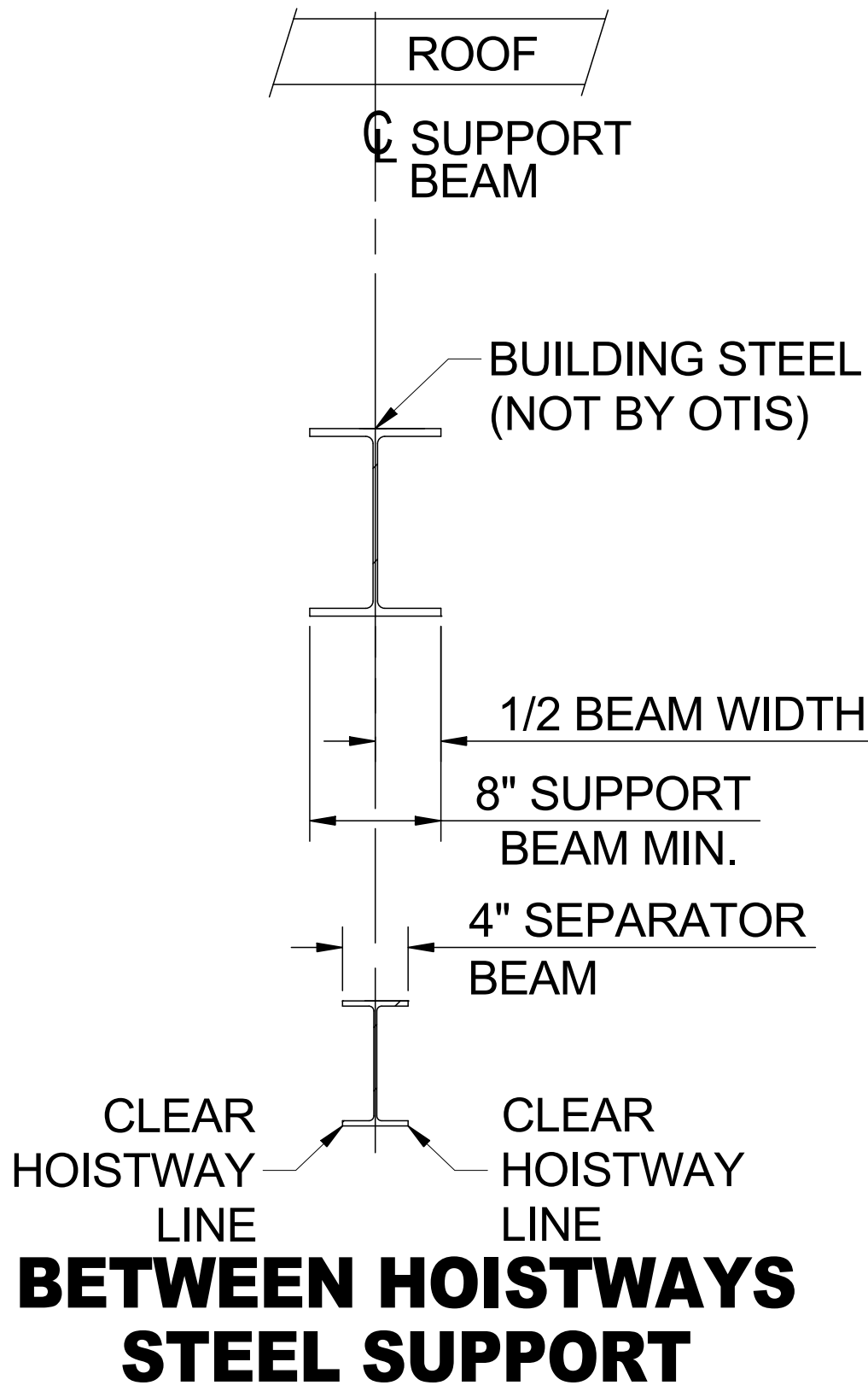
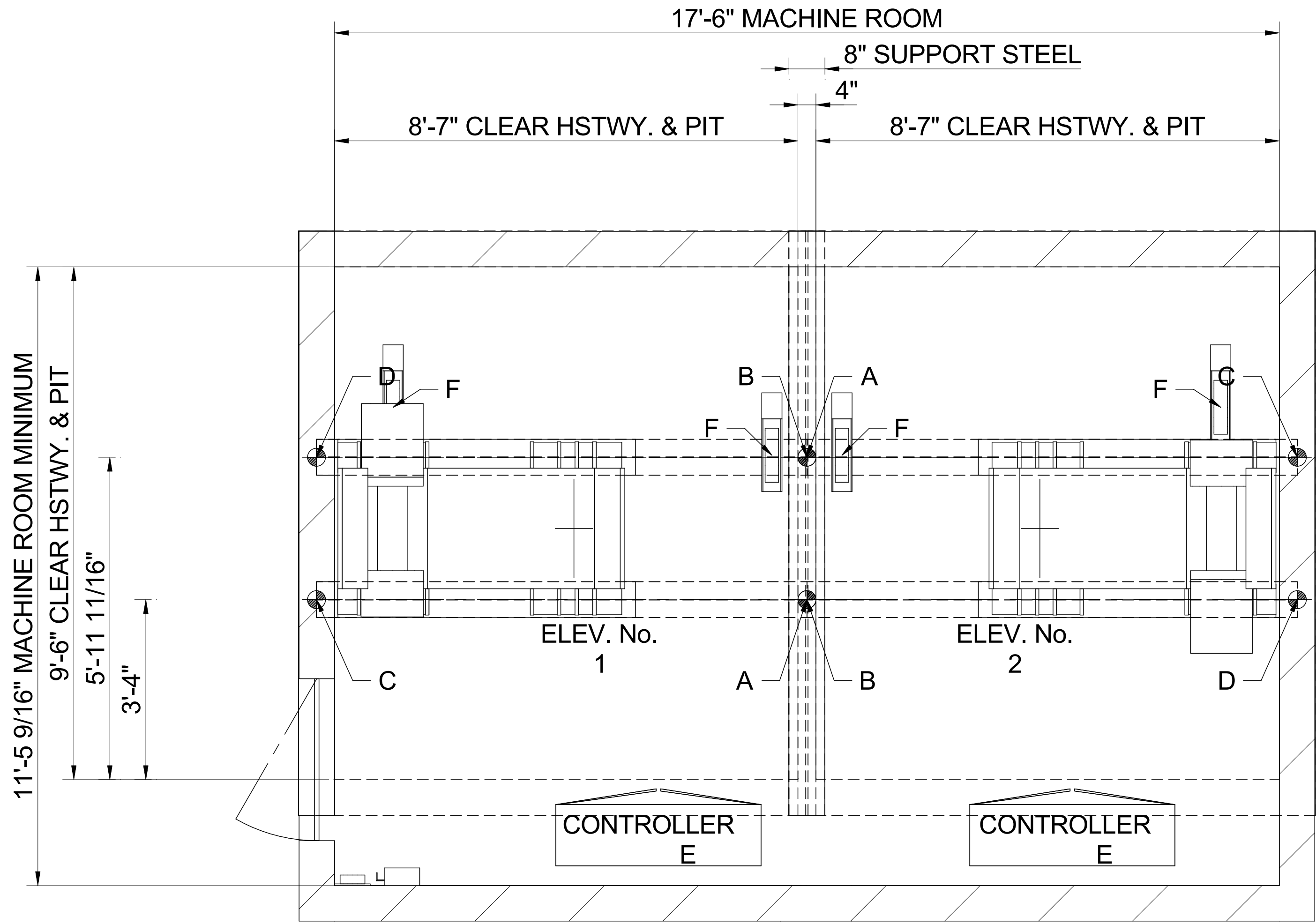
LOCATION :

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. STATIC CONDITION: $\triangle_{ALLOW.}$ = $\frac{SPAN}{1666}$
2. DYNAMIC CONDITION: STRESS $ALLOW.$ = 80% 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"

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



REVISION DATE: _____ SHEET 3 OF 4

DWG. NO.: **GEN4535H-EL**

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