

No.	Description	Date

Sheet Name

GENERAL ELEVATOR  
INFORMATION

Issued For:

PROGRESS PRINT

Project Number: 160-0100033534-01

Governing Codes: ASME A17.1

Date: 07/15/2022

Drawn By: JD

Checked By: BA, JB

Sheet Number:  
VT01

Scale AS NOTED

FOR PROCUREMENT ONLY

VT01	GENERAL ELEVATOR INFORMATION
VT02	PLANS AND HOISTWAY SECTION - TOWER A - ELEVATOR KITCHEN SERVICE
VT03	PLANS AND HOISTWAY SECTIONS - TOWER A - ELEVATORS TENANT 1 & 2
VT04	PLANS AND HOISTWAY SECTION - TOWER B - ELEVATOR LOBBY SHUTTLE
VT05	PLANS AND HOISTWAY SECTIONS - TOWER B - ELEVATORS TENANT 3 & 4
VT06	PLANS AND HOISTWAY SECTION - TOWER C - ELEVATOR TENANT 5

INDEX OF DRAWINGS

SCALE: N/A

ELEVATOR LOBBY SHUTTLE	2500 # @ 150 FPM	MRL
ELEVATORS TENANT 1 - TENANT 5	4000 # @ 200 FPM	MRL
ELEVATOR KITCHEN SERVICE	4000 # @ 150 FPM	MRL

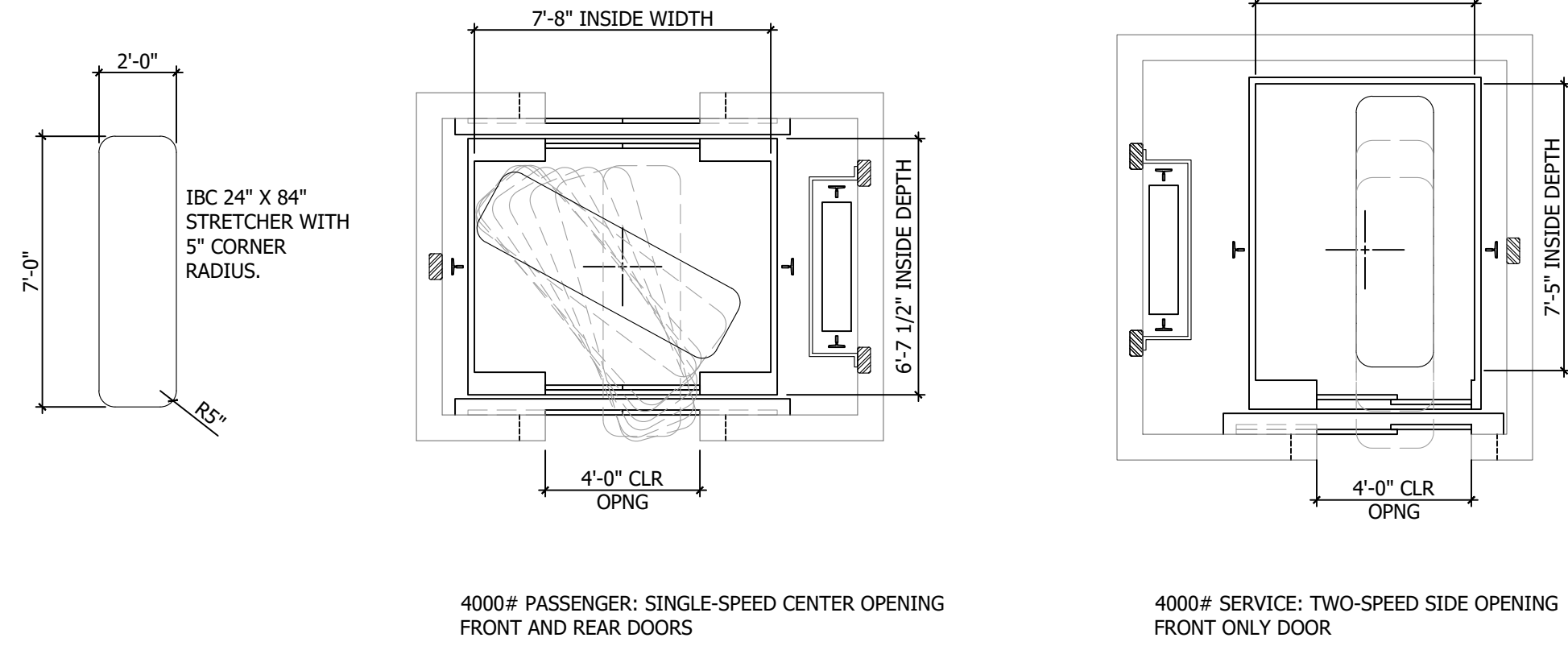
SUMMARY OF ELEVATORS

SCALE: N/A

- THESE DRAWINGS FOR GENERAL INFORMATION ONLY. REQUIREMENTS OF INDIVIDUAL VENDORS MAY VARY.
- THESE DRAWINGS TO BE DISTRIBUTED TO APPROPRIATE CONSULTING AND ENGINEERING FIRMS, INCLUDING ARCHITECT, STRUCTURAL, ELECTRICAL AND MECHANICAL ENGINEERS.
- FIELD VERIFY ALL EXISTING DIMENSIONS.
- ROUGH OPENING DIMENSIONS FOR ELEVATOR ENTRANCES APPLY ONLY IN THE CASE OF MASONRY OR CONCRETE CONSTRUCTION.
- VERTICAL STRUCTURAL SUPPORT FOR RAIL BRACKETING IS PROVIDED BY HOISTWAY WALLS IN THE CASE OF REINFORCED CONCRETE HOISTWAY CONSTRUCTION.

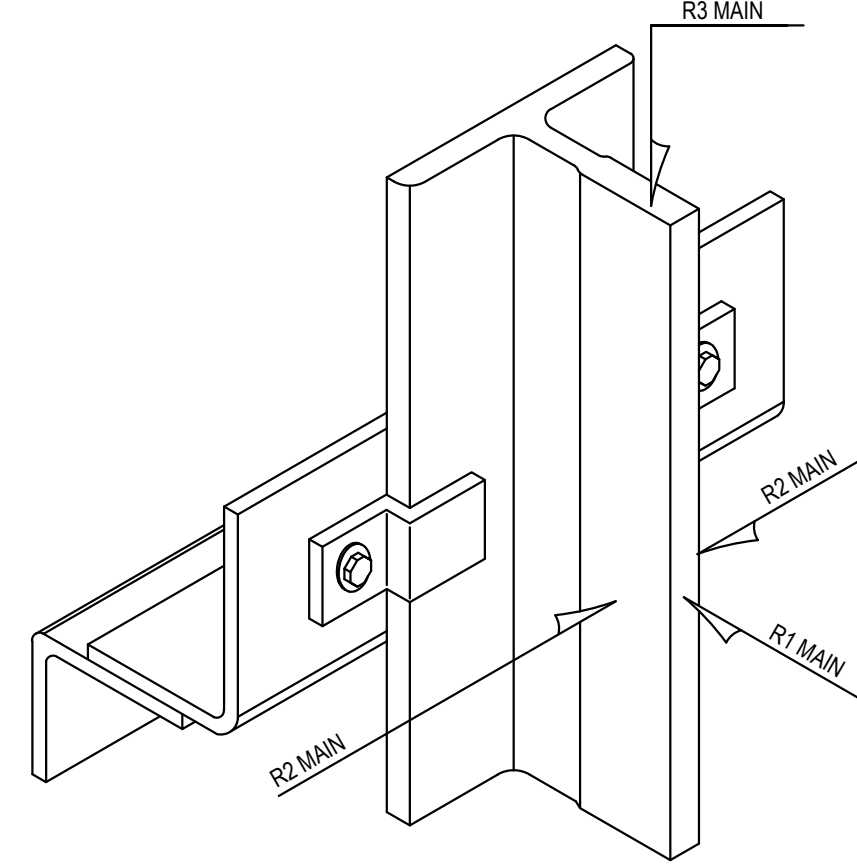
GENERAL NOTES

SCALE: NTS



STRETCHER ACCESS DIAGRAMS

SCALE: N/A



RAIL FORCES MAXIMUM ON EACH GUIDE RAIL (FORCES ARE IN KIPS)

	ELEVATOR NUMBER	LOBBY SHUTTLE	KITCHEN SERVICE	TENANT 1-5	OCCURRING ON
NORMAL FORCES	CAR R1	0.7	1.4	1.3	CAR NORMAL FACE OF MAIN RAIL
	CAR R2	0.4	0.9	0.7	CAR NORMAL SIDE OF MAIN RAIL - LOADING OR RUNNING
	CAR R3	27.4	31.2	32.2	FORCE TRANSMITTED TO PIT STRUCTURE AT CAR SAFETY APPLICATION*
	CWT R3	23.4	N/A	N/A	FORCE TRANSMITTED TO PIT STRUCTURE AT CWT SAFETY APPLICATION*
IBC SEISMIC FORCES	CAR R1	0.7	1.1	1.1	CAR SEISMIC *** FACE OF MAIN RAIL
	CAR R2	0.4	0.5	0.5	CAR SEISMIC *** SIDE OF MAIN RAIL - LOADING OR RUNNING
	CWT R1	0.8	1.1	1.1	CWT SEISMIC *** FACE OF CWT RAIL
	CWT R2	0.4	0.6	0.6	CWT SEISMIC *** SIDE OF CWT RAIL

FOR SOME MACHINE ROOM-LESS (MRL) MODELS, PROVIDE ADDITIONAL LATERAL SUPPORTS ABOVE THE TOP TERMINAL FOR LARGE GUIDE RAIL FORCES DUE TO HOIST MACHINE, DEFLECTOR SHEAVE, AND DEAD END HITCH LOADS (NORMAL FORCES R1 AND R2 CAN BE OVER 13.3 KN [3.0 K] FOR SOME APPLICATIONS). COORDINATE LOADING AND SUPPORT LOCATIONS WITH ELEVATOR CONTRACTOR.

ASME A17.1

BUILDING SUPPORTS TO RESIST HORIZONTAL FORCES WITH A TOTAL DEFLECTIONS AT SUPPORT POINT NOT IN EXCESS OF 6.35MM (1/4") UNDER NORMAL CONDITIONS.

\* THESE REACTIONS DO NOT OCCUR SIMULTANEOUSLY WITH PIT BUFFER REACTIONS

\*\* BUILDING SUPPORTS FOR GUIDE RAIL ATTACHMENT SHALL RESIST HORIZONTAL FORCES WITH A TOTAL DEFLECTION NOT IN EXCESS OF 6.4 MM BASED UPON 0.5 G ACCELERATION DURING SEISMIC CONDITIONS.

IBC

\*\*\* BUILDING SUPPORTS FOR GUIDE RAIL ATTACHMENT SHALL RESIST HORIZONTAL FORCES DURING SEISMIC CONDITIONS.

SEISMIC INFORMATION

SEISMIC DESIGN CATEGORY	ELEVATOR IMPORTANCE FACTOR	SDS	HORIZONTAL ACCELERATION EQUIVALENT
D	1.0	0.5 G	0.5

VERIFY: ALL ELEVATORS IN OCCUPANCY CATEGORY IV MUST BE Ip = 1.5. IN OCCUPANCY CATEGORIES I, II, OR III, THE STRETCHER ELEVATOR MAY NEED Ip = 1.5 AS A LIFE SAFETY COMPONENT OF THE BUILDING. (SEE IBC CODE).

RAIL REACTIONS

SCALE: N/A

AFF	ABOVE FINISH FLOOR	ETS	EMERGENCY TERMINAL	MG	MOTOR-GENERAL	UBC	UNIFORM BUILDING
A.P.	ACCESS PANEL	EQ	EQUAL	MTD	MOUNTED	CODE	CODE
A/C	AIR CONDITIONING	ESCL	ESCALATOR	NEC	NATIONAL ELECTRICAL	VERT.	VERTICAL
ALT.	ALTERNATE	(E)	EXISTING	NFPA	NATIONAL FIRE	V.I.F.	VERIFY IN FIELD
AC	ALTERNATING CURRENT	F	FAHRENHEIT	(N)	NEW	V.	VOLT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	F.P.M	FEET PER MINUTE	NOM.	NOMINAL	W.	WIDE
AMP	AMPERE	F.V.	FIELD VERIFY	N/A	NOT APPLICABLE	W/	WITH
APPROX.	APPROXIMATE	F.F.	FINISH FLOOR	NTS	NOT TO SCALE	WP	WORKPOINT
ARCH.	ARCHITECTURAL	FLR	FLOOR	NO.	NUMBER		
AUX	AUXILIARY	FT	FOOT (FEET)	O.C.	ON CENTER		
BSMT	BASEMENT	FLOUR.	FLUORESCENT	OPNG	OPENING		
BTM	BOTTOM	F/O	FRONT OPENING	OPNG	OVERALL		
BTUH	BRITISH THERMAL UNITS PER HOUR	RUT.	FUTURE	OPP.	OPPOSITE		
BM	BEAM	G	GRAVITY	OVHD	OVERHEAD		
BOCA	BUILDING OFFICIALS AND CODE	GFCT	GROUND FAULT CIRCUIT INTERRUPTER	PL	PLATE		
CLG	ADMINISTRATION CEILING	GOV.	GOVERNOR	PLTFM	PLATFORM		
°C	CELSIUS	GA.	GAUGE	#	POUNDS		
CL	CENTERLINE	GYP. BD.	GYPSPUM BOARD	PSI	POUNDS PER SQUARE INCH		
CM	CENTIMETERS	HT	HEIGHT	PRELIM.	PRELIMINARY		
COL.	COLUMN	HZ	HERTZ	RAD.	RADIUS		
CLR	CLEAR	HSTWY	HOISTWAY	R/O	REAR OPENING		
CONC.	CONCRETE	HORIZ.	HORIZONTAL	REF.	REFERENCE		
CNU	CONCRETE MASONRY UNITS	HR	HOUR	REQ.	REQUIRED		
CONT.	CONTINUOUS	HP	HORSEPOWER	REV.	REVISION		
CONTR.	CONTRACTOR	HYDR.	HYDRAULIC	RM	ROOM		
COORD	COORDINATE	IBC	INTERNATIONAL BUILDING CODE	R.O.	ROUGH OPENING		
CONTRL	CONTROLLER	IN.	INCH (INCHES)	SCCR	SHORT CIRCUIT CURRENT RATING		
CWT	COUNTERWEIGHT	IGBT	INSULATED GATE BIPOLAR TRANSISTOR	SEC.	SECONDARY SECTION		
CYL.	CYLINDER	IN	IN-JAMB CONTROLLER	SHT	SHEET		
DEH	DEAD END HITCH	ISC	JOULES PER SECOND	SCR	SILICON CONTROLLED RECTIFIER		
D.	DEEP	KCAL	KILOCALORIE	SIM.	SIMILAR		
°	DEGREES	KG	KILOGRAMS	SPEC.	SPECIFICATION		
DTL	DETAIL	KN	KILONEWTONS	SP	SQUARE FEET		
Ø	DIAMETER	KVA	KILOVOLT-AMPERE	SM	SQUARE METERS		
DIM.	DIMENSION	KW	KILOWATTS	STD	STANDARD		
DC	DIRECT CURRENT	K	KIPS	SBC	STANDARD BUILDING CODE		
DISC.	DISCONNECT	LT	LIGHT	STL	STEEL		
DBG	DISTANCE BETWEEN GUIDE RAILS	MPS	METERS PER SECOND	STRUCT.	STRUCTURAL		
DN	DOWN	MACH.	MACHINE	SW.	SWITCH		
DWG	DRAWING	MRL	MACHINE ROOM LESS	TBD	TO BE DETERMINED		
EA	EACH	MAX.	MAXIMUM	T.O.	TOP OF		
ELEC.	ELECTRICAL	MEZZ	MEZZANINE	(TYP.)	TYPICAL		
EL.	FLOOR ELEVATION	M	METER	UNO	UNLESS NOTED OTHERWISE		
ELEV.	ELEVATOR	MM	MILLIMETERS				
		MIN	MINIMUM				
		MISC.	MISCELLANEOUS				

ABBREVIATIONS

SCALE: N/A

POWER FEEDER REQUIREMENTS (MAIN POWER SUPPLY: 480-3-60)						
ELEVATOR NUMBER	CAPACITY (POUNDS)	SPEED (FPM)	TRACTION MOTOR HP	FULL LOAD AMPS		
				HEAT RELEASE		
				CONTROLLER SPACE MACHINE SPACE		
				(BTUH PER CAR)		
LOBBY SHUTTLE	2500	150	20	25	67	4570 2080
TENANT 1 - 5	4000	200	17	22	36	7920 2570
KITCHEN SERVICE	4000	150	17	22	36	7920 2570
NOTES:						
1. ELECTRICAL POWER AND CURRENT ARE BASED ON THREE (3) PHASE A.C. POWER SUPPLY.						
2. MAIN POWER TO BE PROVIDED AT EACH CONTROLLER THROUGH DISCONNECTS, MEETING NEC REQUIREMENTS.						
3. MAIN POWER SUPPLY FEEDERS TO LIMIT VOLTAGE DROP TO LESS THAN 5%. MAX SCCR FOR ALL DISCONNECT FEEDER DESIGNS BASED ON SKA RATING (NEC SECTION 409.022 AND UL506A SUPPLEMENT SB.						
4. USE COPPER CONDUCTORS ONLY.						
5. FEEDER DEMAND FACTORS (NEC SECTION 430.026 AND 620.014) =						
(2) CARS = 95%, (3) CARS = 90%, (4) CARS = 85%, (5) CARS = 82%, (6) CARS = 79%, (7) CARS = 77%, (8) CARS = 75%, (9) CARS = 73%, (10) CARS = 72%						
6. THE AMBIENT CONTROL / MACHINE SPACE TEMPERATURE TO BE MIN. 13° C (55° F), MAX 32° C (90° F).						
7. RELATIVE HUMIDITY MAX 80% NON-CONDENSING.						
8. THE SELECTION OF MAIN POWER SUPPLY DISCONNECTING MEANS OVER CURRENT PROTECTION TO BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, SECTIONS 620.051 AND 430.052.						
9. PROVIDE LOCAL TELEPHONE SERVICE LINE TO EACH CAR CONTROLLER (IF APPLICABLE).						
10. PROVIDE GFCI CONVENIENCE OUTLETS IN PIT, MACHINE ROOM, AND IN MACHINERY SPACES. IN PIT, PROVIDE ONE NON-GFCI OUTLET FOR PUMP PUMP AND/OR OIL RETURN PUMP.						
11. PROVIDE HOIST MACHINE WITH VOLTAGE TO MATCH SUPPLY VOLTAGE INDICATED. UNLESS NOTED OTHERWISE.						
12. MAIN POWER SUPPLY FEEDERS TO LIMIT VOLTAGE DROP TO LESS THAN 5%. MAX SCCR FOR ALL DISCONNECT FEEDER DESIGNS BASED ON SKA RATING (NEC SECTION 409.022 AND UL506A SUPPLEMENT SB.)						
ADDITIONAL POWER AND DISCONNECT REQUIREMENTS IN MACHINE ROOM						
AUXILIARY SYSTEM	SUPPLY TERMINAL	SUPPLY VOLTAGE	CIRCUIT CAPACITY			
CAR LIGHT AND FAN WITH LOCKABLE DISCONNECT	EACH CONTROLLER	120-1-60	(15 AMP PER CAR)			
INTERCOM SYSTEM (IF APPLICABLE)	AT AMPLIFIER	120-1-60	1800 WATTS (15 AMP MIN)			
SEISMIC SENSOR DEVICE	AT EACH DISCONNECT	115-1-60	20 AMP PER DISCONNECT			

ELEVATOR ELECTRICAL AND MECHANICAL REQUIREMENTS

SCALE: N/A

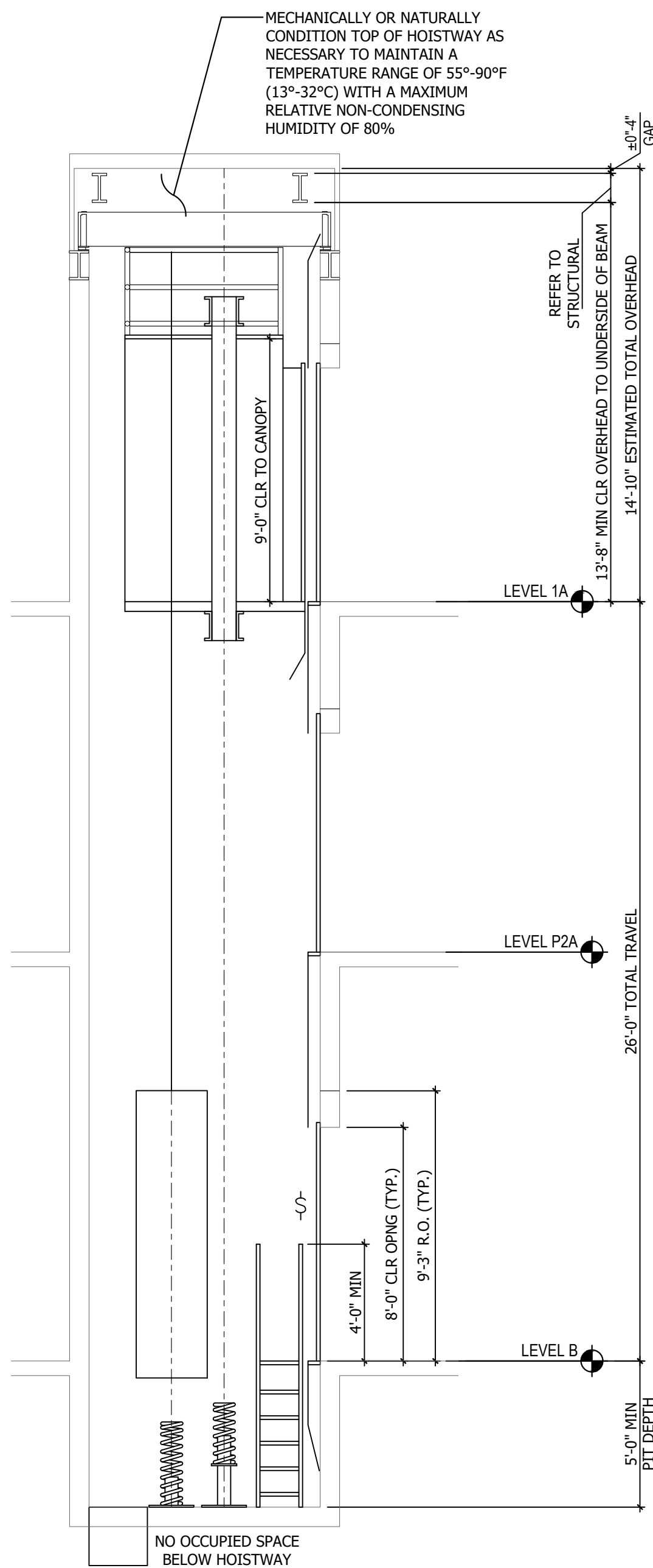


## NOTES:

- APPLICATION DESIGNED FOR:

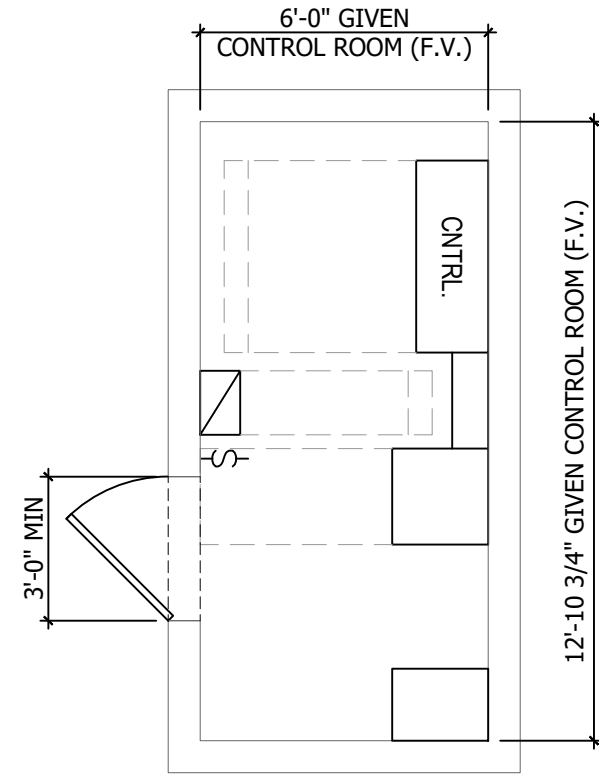
TKE - REFER TO MANUFACTURER SHOP DRAWINGS

PIT AND OVERHEAD PLANS INDICATE REACTIONS FOR MACHINE ROOMLESS EQUIPMENT OF VARIOUS ELEVATOR VENDORS. WHERE REACTIONS OF DIFFERENT VENDORS OVERLAP, THE HIGHER REACTION IS INDICATED. REACTIONS FOR ONE VENDOR DO NOT OCCUR WITH THE REACTIONS OF OTHER VENDORS. OVERHEAD PLANS ARE NOT SHOWN FOR VENDORS WITH NO REACTIONS IN THE OVERHEAD.

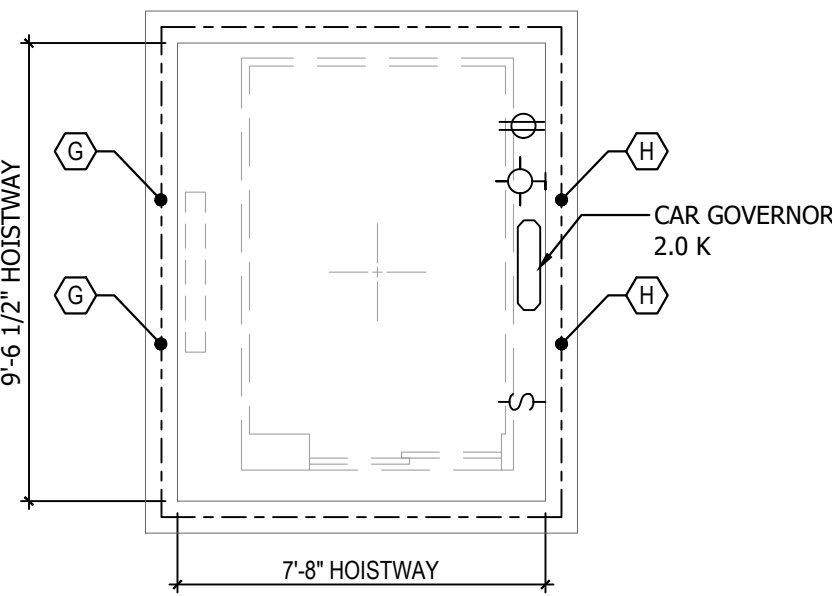


1 HOISTWAY SECTION - KITCHEN SERVICE  
VT02 SCALE: 1/4" = 1'-0"

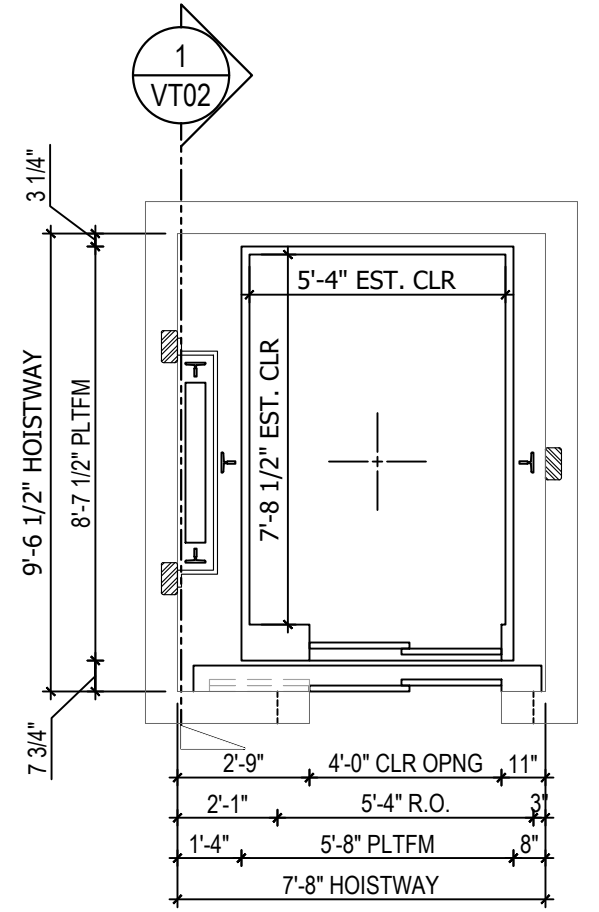
ELEVATOR KITCHEN SERVICE			
FLOORS SERVED	FLOOR NUMBER	OPENING REAR/FRONT	FLOOR TRAVEL (FEET)
	1A	F	0'-0"
	P2	N/S	9'-0"
	P2A	F	3'-0"
	B	F	14'-0"
TOTALS	OPENINGS	0 3	
	STOPS	3	
	TRAVEL		26'-0"



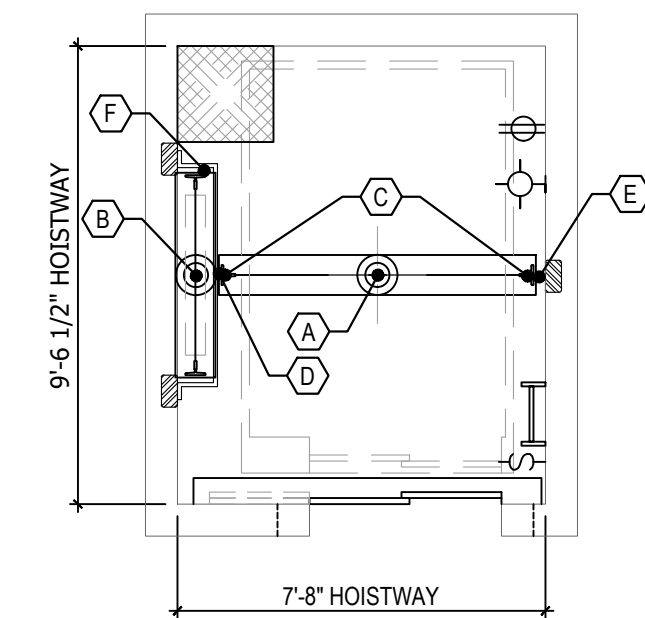
5 REMOTE CONTROL ROOM PLAN  
LEVEL B - ELEVATOR KITCHEN SERVICE  
VT02 SCALE: 1/4" = 1'-0"



4 OVERHEAD PLAN - LEVEL 1A - KITCHEN SERVICE  
VT02 SCALE: 1/4" = 1'-0"



3 HOISTWAY PLAN - LEVEL P2A - KITCHEN SERVICE  
VT02 SCALE: 1/4" = 1'-0"



2 PIT PLAN - LEVEL B - KITCHEN SERVICE  
VT02 SCALE: 1/4" = 1'-0"

ELEVATOR KITCHEN SERVICE 4000# @ 150 FPM MRL

## OVERHEAD NOTES:

- PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT TOP OF HOISTWAY.
- PROVIDE LIGHTS, LIGHT SWITCHES AND GFCI-PROTECTED UTILITY OUTLETS. COORDINATE LOCATIONS WITH ELEVATOR CONTRACTOR.
- PROVIDE STRUCTURAL SUPPORT TO SUSTAIN REACTIONS INDICATED.
- PROVIDE 2 LIFELINE ATTACHMENTS AT THE TOP FRONT OF EACH HOISTWAY. EACH ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING 5000# (2268 KG) LOAD PER OSHA. COORDINATE LOCATION OF ATTACHMENTS WITH ELEVATOR CONTRACTOR.
- PROVIDE HOIST BEAM SUPPORT 15,000#. COORDINATE HOISTBEAM LOCATION(S) AND LOAD REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- OVERHEAD DIMENSIONS ARE CLEAR FROM F.F. AT TOP LANDING TO STRUCTURE OR ANY OBSTRUCTION ABOVE CAR AND/OR COUNTERWEIGHT.
- MACHINE BEAM SUPPORT. THIS SUPPORT IS REQUIRED FOR ABOVE CAR MACHINE LOCATION. VERIFY MACHINE LOCATION WITH ELEVATOR CONTRACTOR.
- OVERHEAD REACTIONS VARY PER VENDOR BASED ON CWT LOCATION AND METHOD OF SUPPORT FOR HOIST MACHINE AND DEAD END HITCHES. COORDINATE FINAL REACTIONS WITH ELEVATOR SHOP DRAWINGS.

## OVERHEAD REACTION TABLE

DUTY: 4000# @ 150 FPM		
KEY	REACTION (FORCES IN KIPS)	
(G)	18.2	EACH
(H)	11.6	EACH

## HOISTWAY NOTES:

- PROVIDE ACCESS PANEL AT TOP TERMINAL WHEN CONTROL ROOM IS REMOTE. COORDINATE SIZE AND LOCATION WITH ELEVATOR CONTRACTOR.
- FOR ABOVE CAR MACHINE LOCATION, ERECT ENTRANCE SIDE HOISTWAY WALL AT ELEVATOR EQUIPMENT STORAGE LEVEL AFTER ELEVATOR EQUIPMENT HAS BEEN INSTALLED IN HOISTWAY.
- PROVIDE SMOKE VENTING PER LOCAL CODE REQUIREMENTS.
- FOR CERTAIN MRL VENDORS, PROVIDE ADDITIONAL LATERAL SUPPORTS ABOVE THE TOP TERMINAL FOR THE LARGE GUIDE RAIL FORCES DUE TO HOIST MACHINE, DEFLECTOR SHEAVE, AND DEAD END HITCH LOADS. COORDINATE LOADING REQUIREMENTS AND LOCATIONS WITH ELEVATOR CONTRACTOR.
- ROUGH OPENINGS VARY BY MANUFACTURER, VERIFY ROUGH OPENING BEFORE CONSTRUCTION.
- 1070 MM (42") CAR TOP RAILING PER CODE BY ELEVATOR CONTRACTOR.
- ABOVE CAR MACHINE LOCATION, VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
- SIDE CWT MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
- PROVIDE STRUCTURAL SUPPORT, FOR CAR AND CWT GUIDE RAIL FASTENING AT MAX. VERTICAL SPACING THROUGH TOP OF HOISTWAY AS SPECIFIED IN RAIL SUPPORT TABLE. IF THIS SPACING CANNOT BE MAINTAINED, PROVIDE INTERMEDIATE SUPPORT BEAMS OR CONTINUOUS VERTICAL STRUCTURE BETWEEN FLOOR BEAMS.

## RAIL SUPPORT TABLE

15# RAILS		
CAR GUIDE RAIL	10'-6"	MAX SPAN
CWT GUIDE RAIL	10'-6"	MAX SPAN

## CONTROL ROOM NOTES:

- PROVIDE SELF-CLOSING, SELF-LOCKING CONTROL ROOM ACCESS DOOR.
- PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT CONTROL ROOM FLOOR.
- PROVIDE 3-PHASE MAINLINE POWER FEEDER WITH DISCONNECTING MEANS FOR EACH ELEVATOR CONTROLLER.
- PROVIDE 1-PHASE FEEDER WITH DISCONNECTING MEANS FOR CAR LIGHTING, VENTILATION SYSTEM AND RECEPTACLE FOR EACH ELEVATOR. THESE DISCONNECTING MEANS SHALL INCLUDE OVERCURRENT PROTECTION, SHALL BE LOCATED IN THE MACHINE ROOM, AND SHALL MEET N.E.C. REQUIREMENTS.
- FOR MOST VENDORS, CONTROLLER MUST BE WITHIN 100' WIRE RUN LENGTH FROM THE CORRESPONDING MACHINE AT THE TOP OF THE HOISTWAY.

## PIT NOTES:

- PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 100 LUX (10 FC) ILLUMINATION AT PIT FLOOR.
- PROVIDE PIT ACCESS LADDER(S) OR DOOR(S), LIGHT SWITCH(ES), LIGHT(S), AND GFCI-PROTECTED UTILITY OUTLET(S).
- COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
- PROVIDE ADEQUATE STRUCTURAL SUPPORT REQUIRED FOR BUFFER AND R3 RAIL FORCE REACTIONS.
- ELEVATOR CONTRACTOR PROVIDE PERMANENT MEANS TO ACCESS UNDERSIDE OF CAR AS REQUIRED.
- PROVIDE INDIRECT PIT DRAIN OR 24"x24"x24" SUMP PUMP, WITH GRATING COVER, LEVEL WITH PIT FLOOR. PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR.
- ELEVATOR CONTRACTOR IS TO PROVIDE A COUNTERWEIGHT GUARD PER CODE.
- ELEVATOR CONTRACTOR TO PROVIDE BUFFER ACCESS PLATFORM AND LADDER AS REQUIRED.
- CAR/CWT BUFFER REACTIONS WILL NOT OCCUR SIMULTANEOUSLY, UNLESS SPECIFIED OTHERWISE.
- REACTIONS HAVE BEEN DOUBLED FOR IMPACT.

## PIT REACTION TABLE

DUTY: 4000# @ 150 FPM			
KEY	REACTION (FORCES IN KIPS)		DESCRIPTION
(A)	52.3		CAR BUFFER
(B)	47.8		CWT BUFFER
(C)	31.2	EACH	CAR SAFETY (SEE CAR R3 RAIL FORCES)
ALTERNATE PIT REACTIONS FOR RAIL SUPPORTED MACHINE			
THE FOLLOWING REACTIONS OCCUR SIMULTANEOUSLY.			
(D)	31.0	EACH	DRIVE MACHINE LOAD ON CAR RAIL COMBINED WITH CWT DEH LOAD ON CWT RAIL
(E)	22.0	EACH	DYNAMIC LOAD ON CAR RAIL
(F)	10.3	EACH	DYNAMIC LOAD ON CWT RAIL

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## Office Locations

Atlanta Office - Atlanta, GA  
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Florida Office - Tampa, FL  
Great Lakes Office - Chicago, IL  
Houston Office - The Woodlands, TX  
Los Angeles Office - Pasadena, CA  
New England Office - Boston, MA  
New York Office - New York, NY  
North Central Office - Maple Grove, MN  
Ohio Office - Dublin, OH  
Pacific North West Office - Bothell, WA  
Philadelphia Office - Exton, PA  
Phoenix Office - Tempe, AZ  
San Francisco Office - Emeryville, CA  
South Central Office - Dallas, TX  
Tennessee Office - Nashville, TN  
Washington DC Office - Annapolis, MD

SOMMET BLANC

DEER VALLEY, UT

No.	Description	Date

## Sheet Name

PLANS AND HOISTWAY  
SECTION - TOWER A -  
ELEVATOR KITCHEN  
SERVICE

## Issued For:

PROGRESS PRINT

Project Number: 160-0100033534-01

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## Sheet Number:

VT02

Scale AS NOTED

FOR PROCUREMENT ONLY



OVERHEAD NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (15 FC) ILLUMINATION AT TOP OF HOISTWAY.
2. PROVIDE LIGHTS, LIGHT SWITCHES AND GFCI- PROTECTED UTILITY OUTLETS. COORDINATE LOCATIONS WITH ELEVATOR CONTRACTOR.
3. PROVIDE STRUCTURAL SUPPORT TO SUSTAIN REACTIONS INDICATED.
4. PROVIDE 2 LIFELINE ATTACHMENTS AT THE TOP FRONT OF EACH HOISTWAY. EACH ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING 5000# (2268 KG) LOAD PER OSHA. COORDINATE LOCATION OF ATTACHMENTS WITH ELEVATOR CONTRACTOR.
5. PROVIDE HOIST BEAM SUPPORT 15,000#. COORDINATE HOISTBEAM LOCATION(S) AND LOAD REQUIREMENTS WITH ELEVATOR CONTRACTOR.
6. OVERHEAD DIMENSIONS ARE CLEAR FROM F.F. AT TOP LANDING TO STRUCTURE OR ANY OBSTRUCTION ABOVE CAR AND/OR COUNTERWEIGHT.
7. MACHINE BEAM SUPPORT. THIS SUPPORT IS REQUIRED FOR ABOVE CAR MACHINE LOCATION. VERIFY MACHINE LOCATION WITH ELEVATOR CONTRACTOR.
8. OVERHEAD REACTIONS VARY PER VENDOR BASED ON CWT LOCATION AND METHOD OF SUPPORT FOR HOIST MACHINE AND DEAD END HITCHES. COORDINATE FINAL REACTIONS WITH ELEVATOR SHOP DRAWINGS.

HOISTWAY NOTES:

1. PROVIDE ACCESS PANEL AT TOP TERMINAL WHEN CONTROL ROOM IS REMOTE. COORDINATE SIZE AND LOCATION WITH ELEVATOR CONTRACTOR.
2. FOR ABOVE CAR MACHINE LOCATION, ERECT ENTRANCE SIDE HOISTWAY WALL AT ELEVATOR EQUIPMENT STORAGE LEVEL AFTER ELEVATOR EQUIPMENT HAS BEEN INSTALLED IN HOISTWAY.
3. PROVIDE SMOKE VENTING PER LOCAL CODE REQUIREMENTS.
4. FOR CERTAIN MRL VENDORS, PROVIDE ADDITIONAL LATERAL SUPPORTS ABOVE THE TOP TERMINAL FOR THE LARGE GUIDE RAIL FORCES DUE TO HOIST MACHINE, DEFLECTOR, SHEAVE, AND DEAD END HITCH LOADS; COORDINATE LOADING REQUIREMENTS AND LOCATIONS WITH ELEVATOR CONTRACTOR.
5. ROUGH OPENINGS VARY BY MANUFACTURER, VERIFY ROUGH OPENING BEFORE CONSTRUCTION.
6. 1070 MM (42") CAR TOP RAILING PER CODE BY ELEVATOR CONTRACTOR.
7. ABOVE CAR MACHINE LOCATION, VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
8. SIDE CWT MACHINE LOCATION, VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
9. PROVIDE STRUCTURAL SUPPORT FOR CAR AND CWT GUIDE RAIL FASTENING AT MAX. VERTICAL SPACING THROUGHOUT TOP OF HOISTWAYS AS SPECIFIED IN RAIL SUPPORT SCHEDULE. IF THIS SPACING CANNOT BE MAINTAINED, PROVIDE INTERMEDIATE RAIL BEAMS OR CONTINUOUS VERTICAL STRUCTURE BETWEEN FLOOR BEAMS.

CONTROL ROOM NOTES:

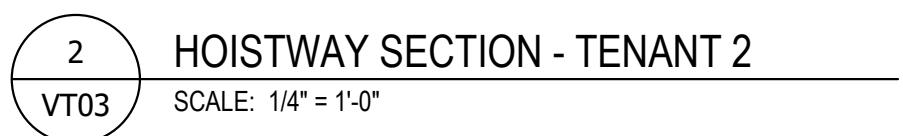
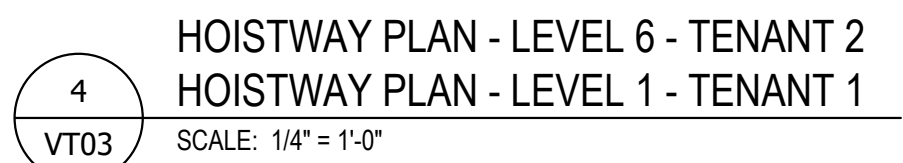
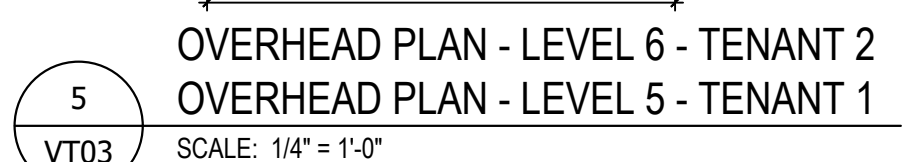
1. PROVIDE SELF-CLOSING, LIGHT-LOCKING CONTROL ROOM ACCESS DOOR.
2. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT CONTROL ROOM FLOOR.
3. PROVIDE 3-PHASE MAINLINE POWER FEEDER WITH DISCONNECTING MEANS FOR EACH ELEVATOR CONTROLLER.
4. PROVIDE 1-PHASE FEEDER WITH DISCONNECTING MEANS FOR CAR LIGHTING, VENTILATION SYSTEM AND RECEPTACLE FOR EACH ELEVATOR. THESE DISCONNECTING MEANS SHALL INCLUDE OVERCURRENT PROTECTION, SHALL BE LOCATED IN THE MACHINE ROOM, AND SHALL MEET N.E.C. REQUIREMENTS.
5. FOR MOST VENDORS, CONTROLLER MUST BE WITHIN 100' WIRE RUN LENGTH FROM THE CORRESPONDING MACHINE AT THE TOP OF THE HOISTWAY.

PIT NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 100 LUX (10 FC) ILLUMINATION AT PIT FLOOR.
2. PROVIDE PIT ACCESS LADDER(S) OR DOOR(S), LIGHT SWITCH(ES), LIGHT(S), AND GFCI-PROTECTED UTILITY OUTLETS(S).
3. COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
4. PROVIDE ADEQUATE STRUCTURAL SUPPORT REQUIRED FOR BUFFER AND R3 RAIL FORCE REACTIONS.
5. ELEVATOR CONTRACTOR PROVIDE PERMANENT MEANS TO ACCESS UNDERSIDE OF CAR AS REQUIRED.
6. PROVIDE INDIRECT PIT DRAIN OR 24"x24"x24" SUMP PUMP, WITH GRATING COVER, LEVEL WITH PIT FLOOR. PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR.
7. ELEVATOR CONTRACTOR IS TO PROVIDE A COUNTERWEIGHT GARD PER CODE.
8. ELEVATOR CONTRACTOR TO PROVIDE BUFFER ACCESS PLATFORM AND LADDER AS REQUIRED.
9. CAR/WTW BUFFER REACTIONS WILL NOT OCCUR SIMULTANEOUSLY, UNLESS SPECIFIED OTHERWISE.
10. REACTIONS HAVE BEEN DOUBLED FOR IMPACT.

ALTERNATE PIT REACTIONS FOR RAIL SUPPORTED MACHINE
--

THE FOLLOWING REACTIONS DO OCCUR SIMULTANEOUSLY.



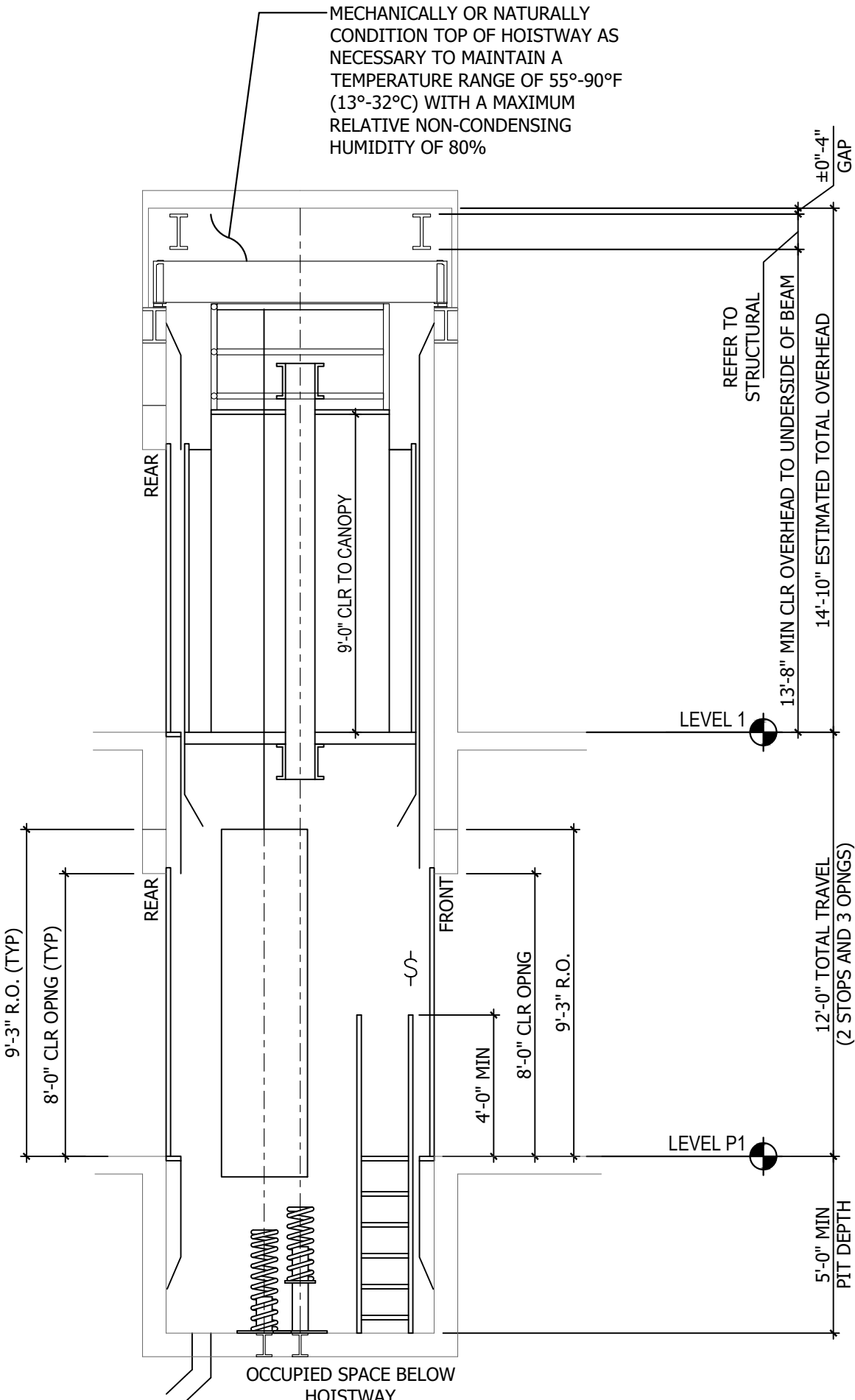
ELEVATOR TENANT 1			
FLOORS SERVED	FLOOR NUMBER	OPENING REAR/FRONT	FLOOR TRAVEL (FEET)
	5	F	0'-0"
	4	F	12'-0"
	3	F	12'-0"
	2	F	12'-0"
	1	R	14'-0"
	1A	F	3'-0"
	P2	N/S	9'-0"
TOTALS	P2A	F	3'-0"
	B	F	14'-0"
	OPENINGS	1	7
	STOPS	8	
	TRAVEL	79'-0"	

ELEVATOR TENANT 2				
FLOORS SERVED	FLOOR NUMBER	OPENING REAR/FRONT	FLOOR TRAVEL (FEET)	
	6	R	F	0'-0"
	5		F	12'-0"
	4		F	12'-0"
	3		F	12'-0"
	2		F	12'-0"
	1		F	14'-0"
	1A	N/S		3'-0"
	P2		F	9'-0"
	P2A	N/S		3'-0"
TOTALS	B		F	14'-0"
	OPENINGS	1	8	
	STOPS	8		
	TRAVEL			91'-0"



NOTES:  
- APPLICATION DESIGNED FOR:  
TKE - REFER TO MANUFACTURER SHOP DRAWINGS

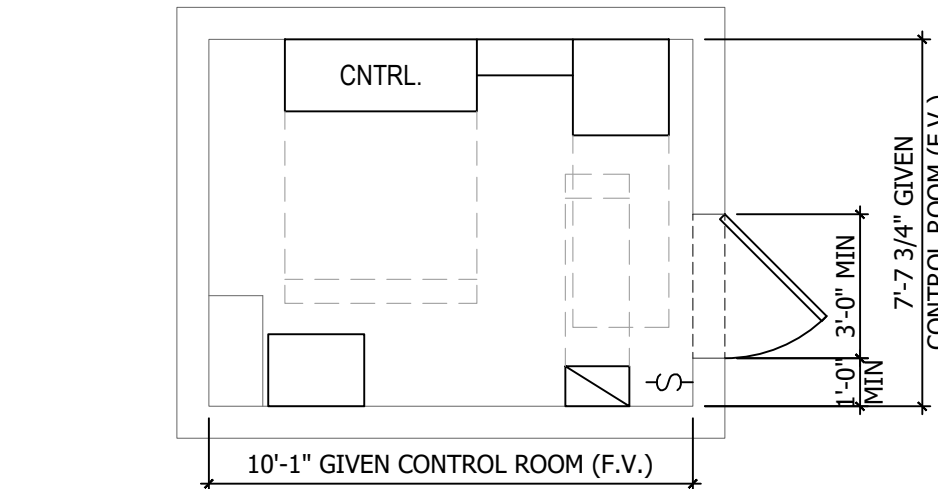
PIT AND OVERHEAD PLANS INDICATE REACTIONS FOR MACHINE ROOM-LESS EQUIPMENT OF VARIOUS ELEVATOR VENDORS. WHERE REACTIONS OF DIFFERENT VENDORS OVERLAP, THE HIGHER REACTION IS INDICATED. REACTIONS FOR ONE VENDOR DO NOT OCCUR WITH THE REACTIONS OF OTHER VENDORS. OVERHEAD PLANS ARE NOT SHOWN FOR VENDORS WITH NO REACTIONS IN THE OVERHEAD.



1  
VT04

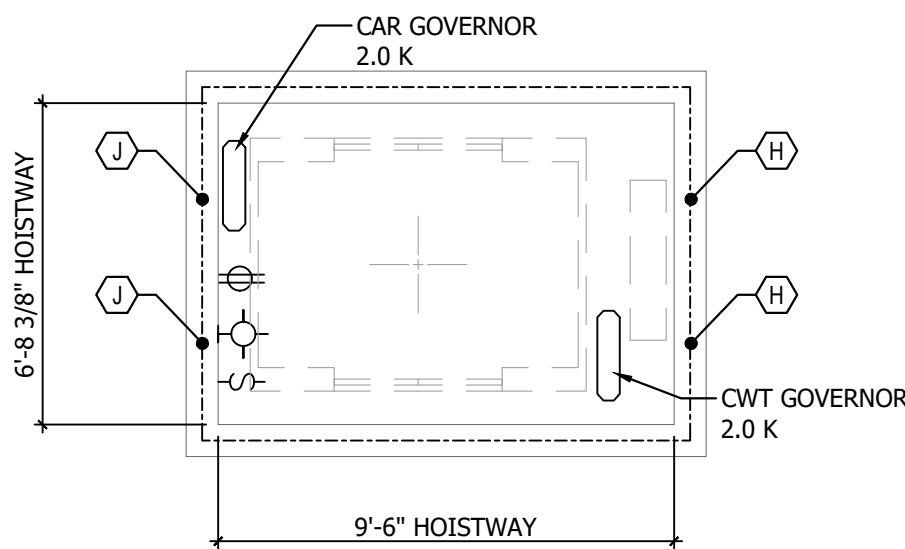
HOISTWAY SECTION - LOBBY SHUTTLE  
SCALE: 1/4" = 1'-0"

ELEVATOR LOBBY SHUTTLE			
FLOORS SERVED	FLOOR NUMBER	OPENING REAR/FRONT	FLOOR TRAVEL (FEET)
1	P1	R	0'-0"
	P1	F	12'-0"
TOTALS	OPENINGS	2	1
	STOPS	2	
TOTALS	TRAVEL		12'-0"



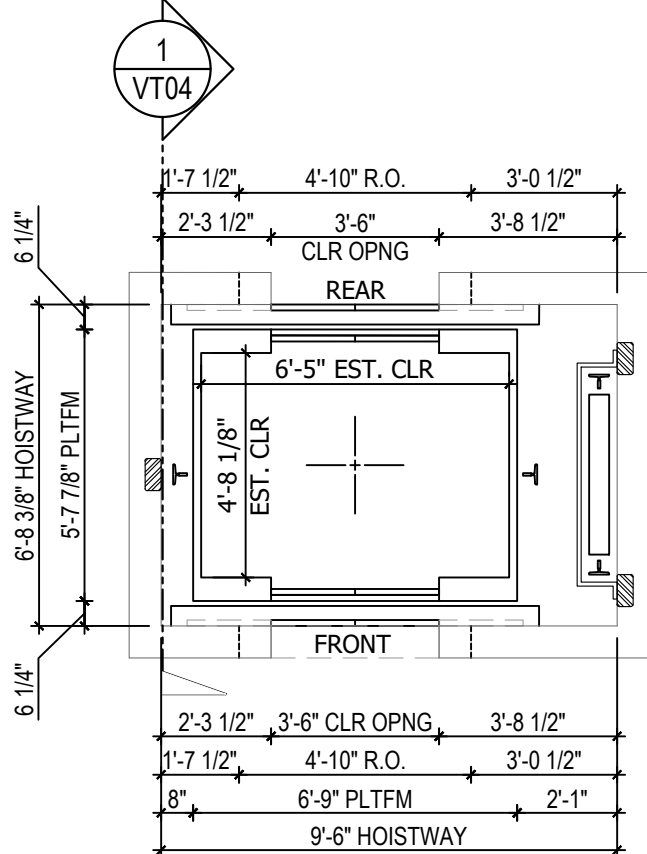
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VT04

REMOTE CONTROL ROOM PLAN  
LEVEL P1 - LOBBY SHUTTLE  
SCALE: 1/4" = 1'-0"



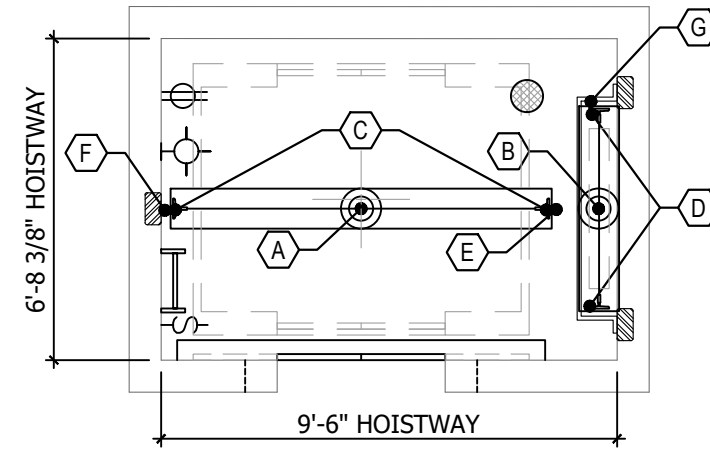
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VT04

OVERHEAD PLAN - LEVEL 1 - LOBBY SHUTTLE  
SCALE: 1/4" = 1'-0"



3  
VT04

HOISTWAY PLAN - LEVEL P1 - LOBBY SHUTTLE  
SCALE: 1/4" = 1'-0"



2  
VT04

PIT PLAN - LEVEL P1 - LOBBY SHUTTLE  
SCALE: 1/4" = 1'-0"

ELEVATOR LOBBY SHUTTLE 2500# @ 150 FPM MRL

#### OVERHEAD NOTES:

- PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT TOP OF HOISTWAY.
- PROVIDE LIGHTS, LIGHT SWITCHES AND GFCI- PROTECTED UTILITY OUTLETS. COORDINATE LOCATIONS WITH ELEVATOR CONTRACTOR.
- PROVIDE STRUCTURAL SUPPORT TO SUSTAIN REACTIONS INDICATED.
- PROVIDE 2 LIFELINE ATTACHMENTS AT THE TOP FRONT OF EACH HOISTWAY. EACH ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING 5,000# (2268 KG) LOAD PER OSHA. COORDINATE LOCATION OF ATTACHMENTS WITH ELEVATOR CONTRACTOR.
- PROVIDE HOIST BEAM SUPPORT 15,000#. COORDINATE HOISTBEAM LOCATION(S) AND LOAD REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- OVERHEAD DIMENSIONS ARE CLEAR FROM F.F. AT TOP LANDING TO STRUCTURE OR ANY OBSTRUCTION ABOVE CAR AND/OR COUNTERWEIGHT.
- MACHINE BEAM SUPPORT. THIS SUPPORT IS REQUIRED FOR ABOVE CAR MACHINE LOCATION. VERIFY MACHINE LOCATION WITH ELEVATOR CONTRACTOR.
- OVERHEAD REACTIONS VARY PER VENDOR BASED ON CWT LOCATION AND METHOD OF SUPPORT FOR HOIST MACHINE AND DEAD END HITCHES. COORDINATE FINAL REACTIONS WITH ELEVATOR SHOP DRAWINGS.

OVERHEAD REACTION TABLE		
DUTY: 2500# @ 150 FPM		
KEY	REACTION (FORCES IN KIPS)	
(H)	13.2	EACH
(J)	8.1	EACH

#### HOISTWAY NOTES:

- PROVIDE ACCESS PANEL AT TOP TERMINAL WHEN CONTROL ROOM IS REMOTE. COORDINATE SIZE AND LOCATION WITH ELEVATOR CONTRACTOR.
- FOR ABOVE CAR MACHINE LOCATION, ERECT ENTRANCE SIDE HOISTWAY WALL AT ELEVATOR EQUIPMENT STORAGE LEVEL AFTER ELEVATOR EQUIPMENT HAS BEEN INSTALLED IN HOISTWAY.
- PROVIDE SMOKE VENTING PER LOCAL CODE REQUIREMENTS.
- FOR CERTAIN MRL VENDORS, PROVIDE ADDITIONAL LATERAL SUPPORTS ABOVE THE TOP TERMINAL FOR THE LARGE GUIDE RAIL FORCES DUE TO HOIST MACHINE, DEFLECTOR SHEAVE, AND DEAD END HITCH LOADS. COORDINATE LOADING REQUIREMENTS AND LOCATIONS WITH ELEVATOR CONTRACTOR.
- ROUGH OPENINGS VARY BY MANUFACTURER, VERIFY ROUGH OPENING BEFORE CONSTRUCTION.
- 1070 MM (42") CAR TOP RAILING PER CODE BY ELEVATOR CONTRACTOR.
- ABOVE CAR MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
- SIDE CWT MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
- PROVIDE STRUCTURAL SUPPORT, FOR CAR AND CWT GUIDE RAIL FASTENING AT MAX. VERTICAL SPACING THROUGH TOP OF HOISTWAY AS SPECIFIED IN RAIL SUPPORT TABLE. IF THIS SPACING CANNOT BE MAINTAINED, PROVIDE INTERMEDIATE SUPPORT BEAMS OR CONTINUOUS VERTICAL STRUCTURE BETWEEN FLOOR BEAMS.

RAIL SUPPORT TABLE		
15# RAILS		
CAR GUIDE RAIL	14'-0"	MAX SPAN
CWT GUIDE RAIL	14'-0"	MAX SPAN

#### CONTROL ROOM NOTES:

- PROVIDE SELF-CLOSING, SELF-LOCKING CONTROL ROOM ACCESS DOOR.
- PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT CONTROL ROOM FLOOR.
- PROVIDE 3-PHASE MAINLINE POWER FEEDER WITH DISCONNECTING MEANS FOR EACH ELEVATOR CONTROLLER.
- PROVIDE 1-PHASE FEEDER WITH DISCONNECTING MEANS FOR CAR LIGHTING, VENTILATION SYSTEM AND RECEPTACLE FOR EACH ELEVATOR. THESE DISCONNECTING MEANS SHALL INCLUDE OVERCURRENT PROTECTION, SHALL BE LOCATED IN THE MACHINE ROOM, AND SHALL MEET N.E.C. REQUIREMENTS.
- FOR MOST VENDORS, CONTROLLER MUST BE WITHIN 100' WIRE RUN LENGTH FROM THE CORRESPONDING MACHINE AT THE TOP OF THE HOISTWAY.

#### PIT NOTES:

- PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 100 LUX (10 FC) ILLUMINATION AT PIT FLOOR.
- PROVIDE PIT ACCESS LADDER(S) OR DOOR(S), LIGHT SWITCH(ES), LIGHT(S), AND GFCI-PROTECTED UTILITY OUTLETS(S).
- COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
- PROVIDE ADEQUATE STRUCTURAL SUPPORT REQUIRED FOR BUFFER AND R3 RAIL FORCE REACTIONS.
- ELEVATOR CONTRACTOR PROVIDE PERMANENT MEANS TO ACCESS UNDERSIDE OF CAR AS REQUIRED.
- PROVIDE INDIRECT PIT DRAIN OR 24"x24"x24" SUMP PUMP, WITH GRATING COVER, LEVEL WITH PIT FLOOR. PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR.
- ELEVATOR CONTRACTOR IS TO PROVIDE A COUNTERWEIGHT GUARD PER CODE.
- ELEVATOR CONTRACTOR TO PROVIDE BUFFER ACCESS PLATFORM AND LADDER AS REQUIRED.
- CAR/CWT BUFFER REACTIONS WILL NOT OCCUR SIMULTANEOUSLY. UNLESS SPECIFIED OTHERWISE.
- REACTIONS HAVE BEEN DOUBLED FOR IMPACT.

PIT REACTION TABLE		
DUTY: 2500# @ 150 FPM		
KEY	REACTION (FORCES IN KIPS)	DESCRIPTION
(A)	29.1	CAR BUFFER
(B)	26.4	CWT BUFFER
(C)	27.4	EACH CAR SAFETY (SEE CAR R3 RAIL FORCES)
(D)	23.4	EACH CWT SAFETY (SEE CWT R3 RAIL FORCES)
ALTERNATE PIT REACTIONS FOR RAIL SUPPORTED MACHINE		
THE FOLLOWING REACTIONS DO OCCUR SIMULTANEOUSLY.		
(E)	25.0	EACH DRIVE MACHINE LOAD ON CAR RAIL COMBINED WITH CWT DEH LOAD ON CWT RAIL
(F)	17.0	EACH DYNAMIC LOAD ON CAR RAIL
(G)	8.9	EACH DYNAMIC LOAD ON CWT RAIL

#### Office Locations

Atlanta Office - Atlanta, GA  
Denver Office - Englewood, CO  
Florida Office - Tampa, FL  
Great Lakes Office - Chicago, IL  
Houston Office - The Woodlands, TX  
Los Angeles Office - Pasadena, CA  
New England Office - Boston, MA  
New York Office - New York, NY  
North Central Office - Maple Grove, MN  
Ohio Office - Dublin, OH  
Pacific North West Office - Bothell, WA  
Philadelphia Office - Exton, PA  
Phoenix Office - Tempe, AZ  
San Francisco Office - Emeryville, CA  
South Central Office - Dallas, TX  
Tennessee Office - Nashville, TN  
Washington DC Office - Annapolis, MD

SOMMET BLANC

DEER VALLEY, UT

No.	Description	Date

#### Sheet Name

### PLANS AND HOISTWAY SECTION - TOWER B - ELEVATOR LOBBY SHUTTLE

#### Issued For:

PROGRESS PRINT

Project Number: 160-0100033534-01

Governing Codes: ASME A17.1

Date: 07/15/2022

Drawn By: JD

Checked By: BA, JB

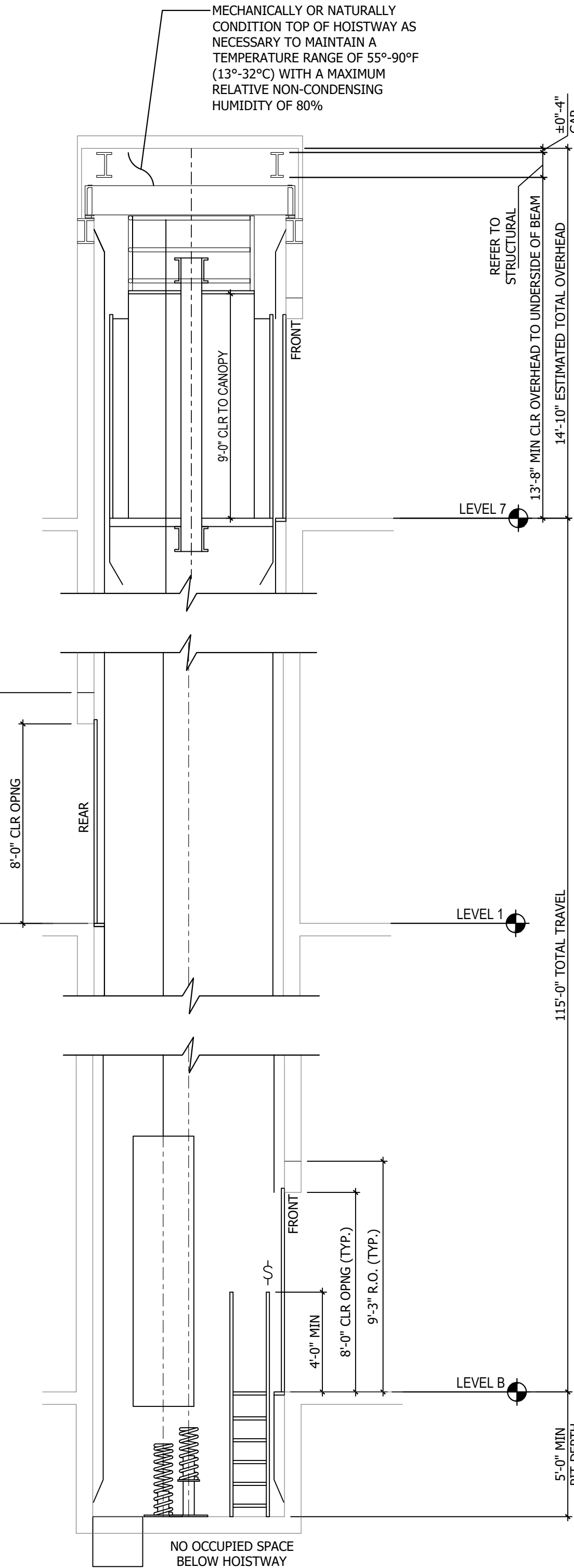
#### Sheet Number:

VT04

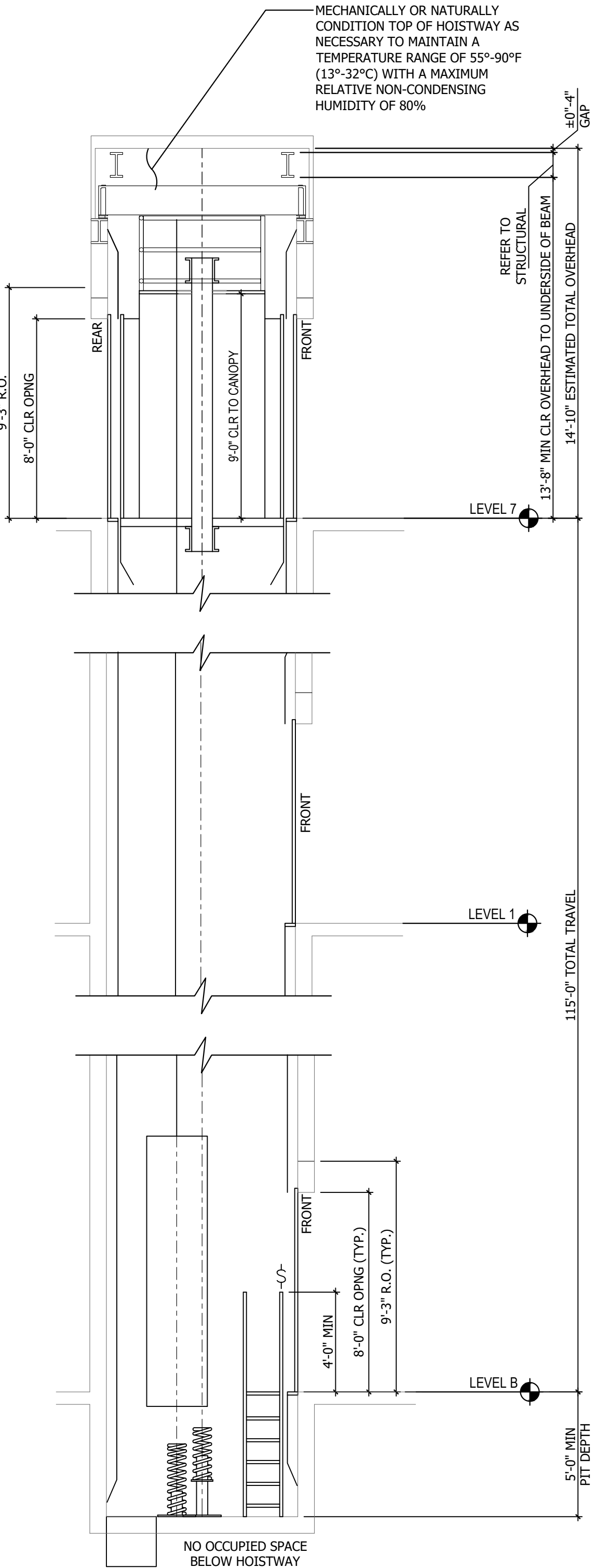
Scale AS NOTED



NOTES:  
- APPLICATION DESIGNED FOR:  
TKE - REFER TO MANUFACTURER SHOP DRAWINGS  
  
PIT AND OVERHEAD PLANS INDICATE REACTIONS FOR MACHINE ROOM LESS EQUIPMENT OF VARIOUS ELEVATOR VENDORS. WHERE REACTIONS OF DIFFERENT VENDORS OVERLAP, THE HIGHER REACTION IS INDICATED. REACTIONS FOR ONE VENDOR DO NOT OCCUR WITH THE REACTIONS OF OTHER VENDORS. OVERHEAD PLANS ARE NOT SHOWN FOR VENDORS WITH NO REACTIONS IN THE OVERHEAD.



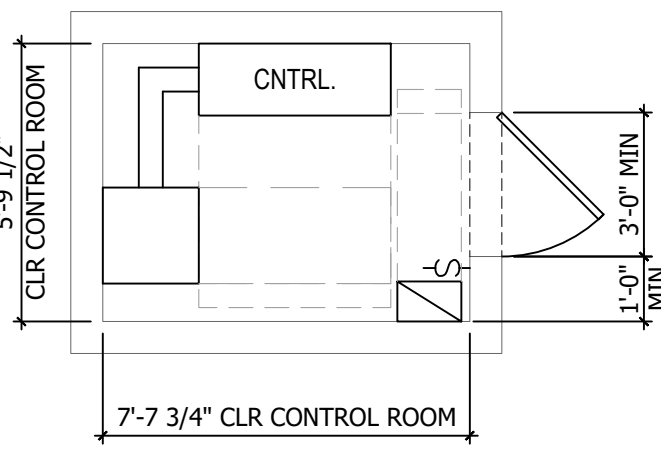
ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.			
ELEVATOR TENANT 4			
FLOOR NUMBER	OPENING REAR/FRONT	FLOOR TRAVEL (FEET)	
7		F	0'-0"
6		F	12'-0"
5		F	12'-0"
4		F	12'-0"
3		F	12'-0"
2		F	12'-0"
1A		F	14'-0"
1	R	F	5'-0"
P1		F	12'-0"
P2		F	12'-0"
B		F	12'-0"
OPENINGS	1	10	
STOPS	11		
TRAVEL			115'-0"



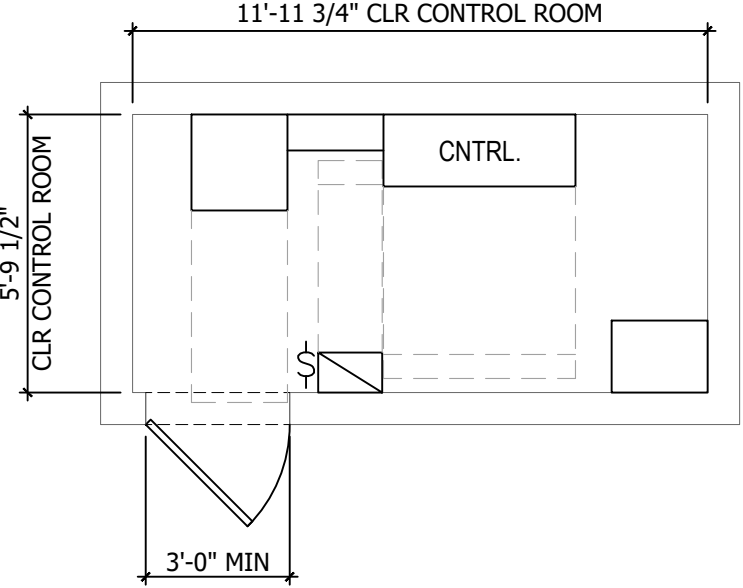
ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.			
ELEVATOR TENANT 3			
FLOOR NUMBER	OPENING REAR/FRONT	FLOOR TRAVEL (FEET)	
7	R	F	0'-0"
6		F	12'-0"
5		F	12'-0"
4		F	12'-0"
3		F	12'-0"
2		F	12'-0"
1A	N/S	F	14'-0"
1		F	5'-0"
P1		F	12'-0"
P2		F	12'-0"
B		F	12'-0"
OPENINGS	1	10	
STOPS	10		
TRAVEL			115'-0"

1 HOISTWAY SECTION - TENANT 4  
VT05 SCALE: 1/4" = 1'-0"

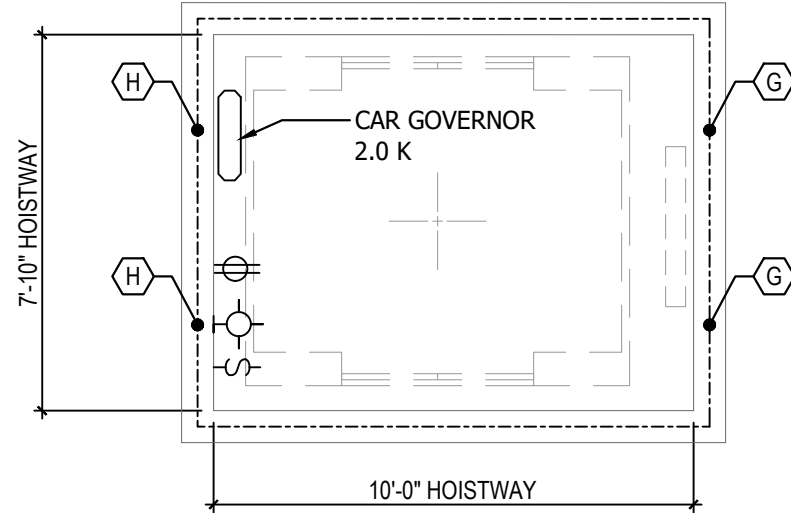
2 HOISTWAY SECTION - TENANT 3  
VT05 SCALE: 1/4" = 1'-0"



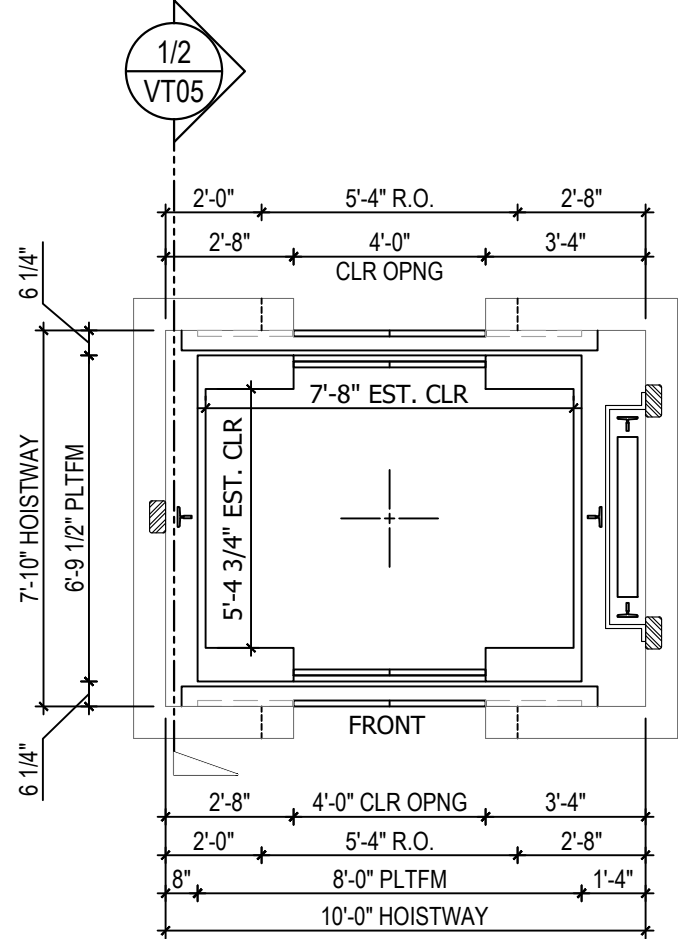
7 REMOTE CONTROL ROOM PLAN - LEVEL B - ELEVATOR TENANT 4  
VT05 SCALE: 1/4" = 1'-0"



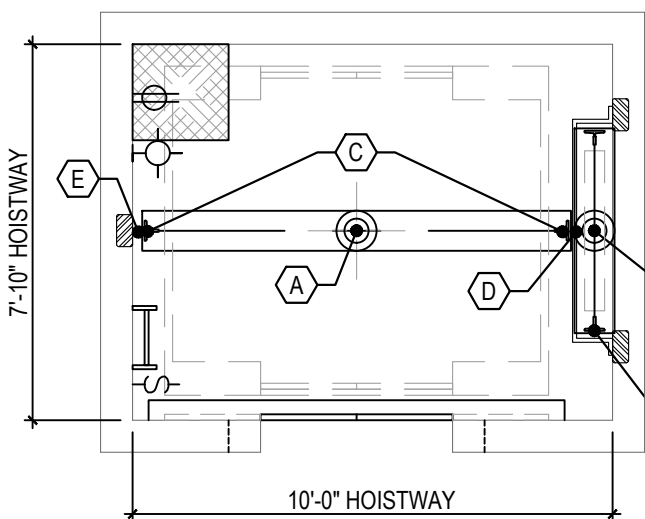
6 REMOTE CONTROL ROOM PLAN - LEVEL B - ELEVATOR TENANT 3  
VT05 SCALE: 1/4" = 1'-0"



5 OVERHEAD PLAN - LEVEL 7 - TENANT 3 (TENANT 4 SIM.)  
VT05 SCALE: 1/4" = 1'-0"



4 HOISTWAY PLAN - LEVEL 2 - TENANT 3 (TENANT 4 SIM.)  
VT05 SCALE: 1/4" = 1'-0"



3 PIT PLAN - LEVEL B - TENANT 3 (TENANT 4 SIM.)  
VT05 SCALE: 1/4" = 1'-0"

ELEVATORS TENANT 3 & 4 4000# @ 200 FPM MRL

#### OVERHEAD NOTES:

- PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT TOP OF HOISTWAY.
- PROVIDE LIGHTS, LIGHT SWITCHES AND GFCI- PROTECTED UTILITY OUTLETS. COORDINATE LOCATIONS WITH ELEVATOR CONTRACTOR.
- PROVIDE STRUCTURAL SUPPORT TO SUSTAIN REACTIONS INDICATED.
- PROVIDE 2 LIFELINE ATTACHMENTS AT THE TOP FRONT OF EACH HOISTWAY. EACH ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING 5000# (2268 KG) LOAD PER OSHA. COORDINATE LOCATION OF ATTACHMENTS WITH ELEVATOR CONTRACTOR.
- PROVIDE HOIST BEAM SUPPORT 15,000#. COORDINATE HOISTBEAM LOCATION(S) AND LOAD REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- OVERHEAD DIMENSIONS ARE CLEAR FROM F.F. AT TOP LANDING TO STRUCTURE OR ANY OBSTRUCTION ABOVE CAR AND/OR COUNTERWEIGHT.
- MACHINE BEAM SUPPORT. THIS SUPPORT IS REQUIRED FOR ABOVE CAR MACHINE LOCATION. VERIFY MACHINE LOCATION WITH ELEVATOR CONTRACTOR.
- OVERHEAD REACTIONS VARY PER VENDOR BASED ON CWT LOCATION AND METHOD OF SUPPORT FOR HOIST MACHINE AND DEAD END HITCHES. COORDINATE FINAL REACTIONS WITH ELEVATOR SHOP DRAWINGS.

OVERHEAD REACTION TABLE		
DUTY: 4000# @ 200 FPM		
KEY	REACTION (FORCES IN KIPS)	
(G)	19.2	EACH
(H)	10.8	EACH

#### HOISTWAY NOTES:

- PROVIDE ACCESS PANEL AT TOP TERMINAL WHEN CONTROL ROOM IS REMOTE. COORDINATE SIZE AND LOCATION WITH ELEVATOR CONTRACTOR.
- FOR ABOVE CAR MACHINE LOCATION, ERECT ENTRANCE SIDE HOISTWAY WALL AT ELEVATOR EQUIPMENT STORAGE LEVEL AFTER ELEVATOR EQUIPMENT HAS BEEN INSTALLED IN HOISTWAY.
- PROVIDE SMOKE VENTING PER LOCAL CODE REQUIREMENTS.
- FOR CERTAIN MRL VENDORS, PROVIDE ADDITIONAL LATERAL SUPPORTS ABOVE THE TOP TERMINAL FOR THE LARGE GUIDE RAIL FORCES DUE TO HOIST MACHINE, DEFLECTOR SHEAVE, AND DEAD END HITCH LOADS. COORDINATE LOADING REQUIREMENTS AND LOCATIONS WITH ELEVATOR CONTRACTOR.
- ROUGH OPENINGS VARY BY MANUFACTURER, VERIFY ROUGH OPENING BEFORE CONSTRUCTION.
- 1070 MM (42") CAR TOP RAILING PER CODE BY ELEVATOR CONTRACTOR.
- ABOVE CAR MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
- REAR/SIDE CWT MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
- PROVIDE STRUCTURAL SUPPORT, FOR CAR AND CWT GUIDE RAIL FASTENING AT MAX. VERTICAL SPACING THROUGH TOP OF HOISTWAY AS SPECIFIED IN RAIL SUPPORT TABLE. IF THIS SPACING CANNOT BE MAINTAINED, PROVIDE INTERMEDIATE SUPPORT BEAMS OR CONTINUOUS VERTICAL STRUCTURE BETWEEN FLOOR BEAMS.

RAIL SUPPORT TABLE		
15# RAILS		
CAR GUIDE RAIL	10'-6"	MAX SPAN
CWT GUIDE RAIL	10'-6"	MAX SPAN

#### CONTROL ROOM NOTES:

- PROVIDE SELF-CLOSING, SELF-LOCKING CONTROL ROOM ACCESS DOOR.
- PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT CONTROL ROOM FLOOR.
- PROVIDE 3-PHASE MAINLINE POWER FEEDER WITH DISCONNECTING MEANS FOR EACH ELEVATOR CONTROLLER.
- PROVIDE 1-PHASE FEEDER WITH DISCONNECTING MEANS FOR CAR LIGHTING, VENTILATION SYSTEM AND RECEPTACLE FOR EACH ELEVATOR. THESE DISCONNECTING MEANS SHALL INCLUDE OVERCURRENT PROTECTION, SHALL BE LOCATED IN THE MACHINE ROOM, AND SHALL MEET N.E.C. REQUIREMENTS.
- FOR MOST VENDORS, CONTROLLER MUST BE WITHIN 100' WIRE RUN LENGTH FROM THE CORRESPONDING MACHINE AT THE TOP OF THE HOISTWAY.

#### PIT NOTES:

- PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 100 LUX (10 FC) ILLUMINATION AT PIT FLOOR.
- PROVIDE PIT ACCESS LADDER(S) OR DOOR(S), LIGHT SWITCH(ES), LIGHT(S), AND GFCI-PROTECTED UTILITY OUTLET(S).
- COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
- PROVIDE ADEQUATE STRUCTURAL SUPPORT REQUIRED FOR BUFFER AND R3 RAIL FORCE REACTIONS.
- ELEVATOR CONTRACTOR PROVIDE PERMANENT MEANS TO ACCESS UNDERSIDE OF CAR AS REQUIRED.
- PROVIDE INDIRECT PIT DRAIN OR 24"x24"x24" SUMP PUMP, WITH GRATING COVER, LEVEL WITH PIT FLOOR. PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR.
- ELEVATOR CONTRACTOR IS TO PROVIDE A COUNTERWEIGHT GUARD PER CODE.
- ELEVATOR CONTRACTOR TO PROVIDE BUFFER ACCESS PLATFORM AND LADDER AS REQUIRED.
- CAR/CWT BUFFER REACTIONS WILL NOT OCCUR SIMULTANEOUSLY, UNLESS SPECIFIED OTHERWISE.
- REACTIONS HAVE BEEN DOUBLED FOR IMPACT.

PIT REACTION TABLE		
DUTY: 4000# @ 200 FPM		
KEY	REACTION (FORCES IN KIPS)	DESCRIPTION
(A)	53.3	CAR BUFFER
(B)	48.8	CWT BUFFER
(C)	32.2	CAR SAFETY (SEE CAR R3 RAIL FORCES)
ALTERNATE PIT REACTIONS FOR RAIL SUPPORTED MACHINE		
THE FOLLOWING REACTIONS DO OCCUR SIMULTANEOUSLY.		
(D)	32.0	EACH DRIVE MACHINE LOAD ON CAR RAIL COMBINED WITH CWT DEH LOAD ON CWT RAIL
(E)	23.0	EACH DYNAMIC LOAD ON CAR RAIL
(F)	10.7	EACH DYNAMIC LOAD ON CWT RAIL

#### Office Locations

Atlanta Office - Atlanta, GA  
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North Central Office - Maple Grove, MN  
Ohio Office - Dublin, OH  
Pacific North West Office - Bothell, WA  
Philadelphia Office - Exton, PA  
Phoenix Office - Tempe, AZ  
San Francisco Office - Emeryville, CA  
South Central Office - Dallas, TX  
Tennessee Office - Nashville, TN  
Washington DC Office - Annapolis, MD

SOMMET BLANC  
DEER VALLEY, UT

No.	Description	Date

#### Sheet Name

### PLANS AND HOISTWAY SECTIONS - TOWER B - ELEVATORS TENANT 3 & 4

#### Issued For:

PROGRESS PRINT

Project Number: 160-0100033534-01

Governing Codes: ASME A17.1

Date: 07/15/2022

Drawn By: JD

Checked By: BA, JB

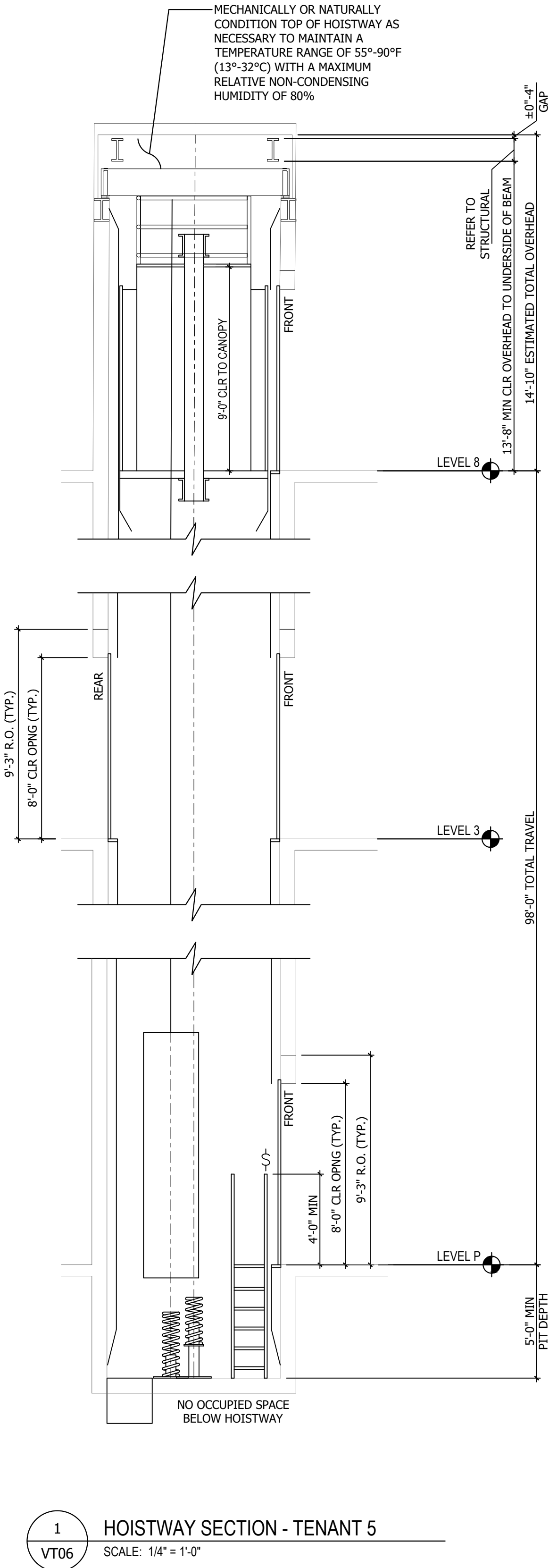
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VT05

Scale AS NOTED

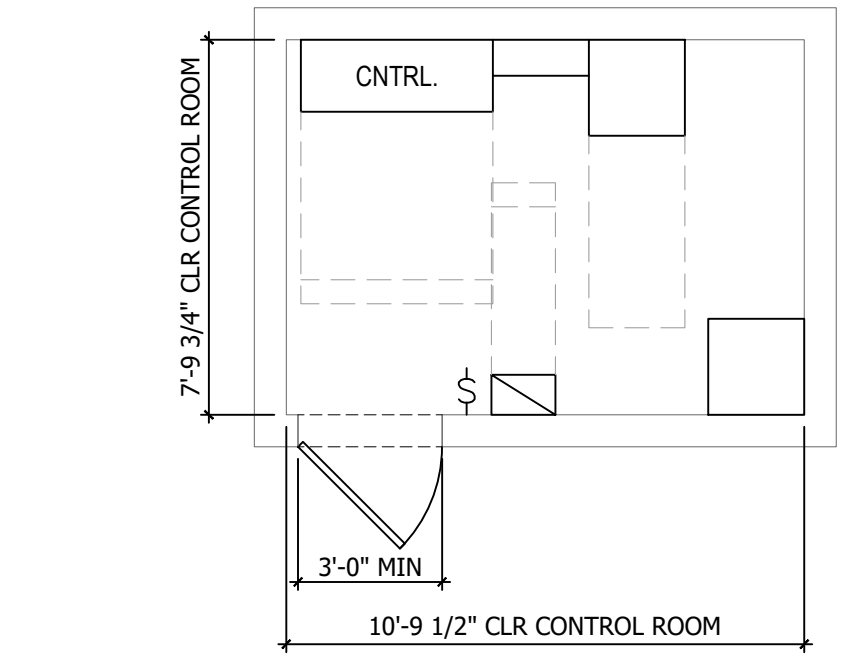


NOTES:  
- APPLICATION DESIGNED FOR:  
TKE - REFER TO MANUFACTURER SHOP DRAWINGS  
  
PIT AND OVERHEAD PLANS INDICATE REACTIONS FOR MACHINE ROOM-LESS EQUIPMENT OF VARIOUS ELEVATOR VENDORS. WHERE REACTIONS OF DIFFERENT VENDORS OVERLAP, THE HIGHER REACTION IS INDICATED. REACTIONS FOR ONE VENDOR DO NOT OCCUR WITH THE REACTIONS OF OTHER VENDORS. OVERHEAD PLANS ARE NOT SHOWN FOR VENDORS WITH NO REACTIONS IN THE OVERHEAD.

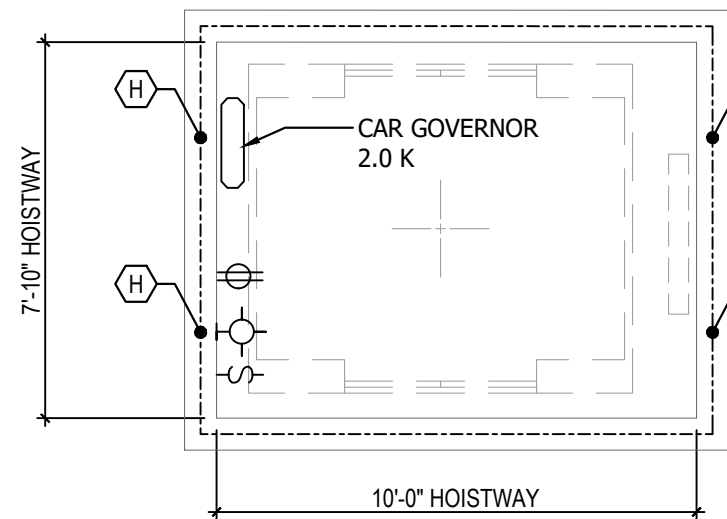


1  
VT06  
HOISTWAY SECTION - TENANT 5  
SCALE: 1/4" = 1'-0"

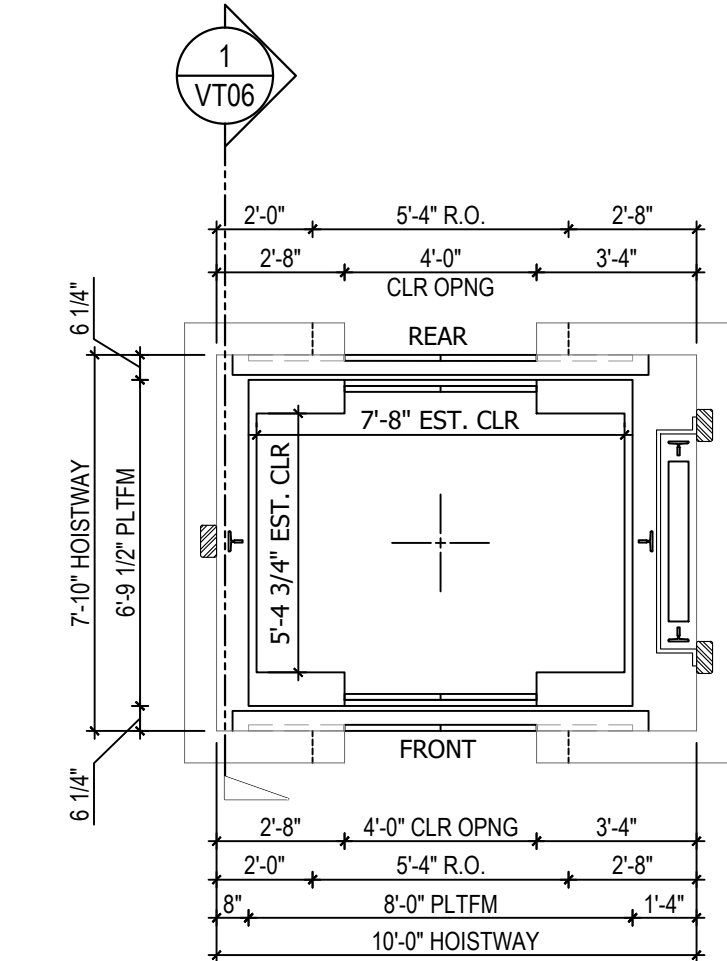
ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.				
ELEVATOR TENANT 5				
FLOOR NUMBER	OPENING REAR/FRONT		FLOOR TRAVEL (FEET)	
8		F	0'-0"	
7	R	F	12'-0"	
6	R	F	12'-0"	
5	R	F	12'-0"	
4	R	F	12'-0"	
3	R	F	12'-0"	
2	R	F	12'-0"	
1	R	F	14'-0"	
P		F	12'-0"	
TOTALS	OPENINGS	7	8	
	STOPS	9		
	TRAVEL			98'-0"



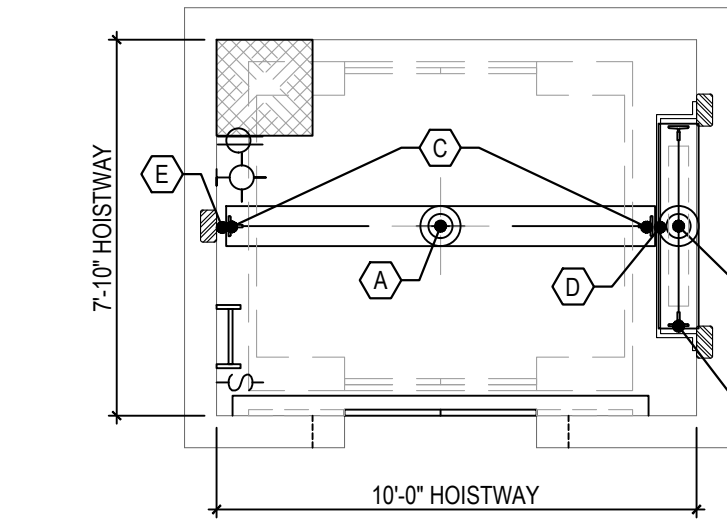
5  
VT06  
REMOTE CONTROL ROOM PLAN - LEVEL P1 - ELEVATOR TENANT 5  
SCALE: 1/4" = 1'-0"



4  
VT06  
OVERHEAD PLAN - LEVEL 8 - TENANT 5  
SCALE: 1/4" = 1'-0"



3  
VT06  
HOISTWAY PLAN - LEVEL 3 - TENANT 5  
SCALE: 1/4" = 1'-0"



2  
VT06  
PIT PLAN - LEVEL P1 - TENANT 5  
SCALE: 1/4" = 1'-0"

ELEVATOR TENANT 5      4000# @ 200 FPM      MRL

OVERHEAD NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT TOP OF HOISTWAY.
2. PROVIDE LIGHTS, LIGHT SWITCHES AND GFCI- PROTECTED UTILITY OUTLETS. COORDINATE LOCATIONS WITH ELEVATOR CONTRACTOR.
3. PROVIDE STRUCTURAL SUPPORT TO SUSTAIN REACTIONS INDICATED.
4. PROVIDE 2 LIFELINE ATTACHMENTS AT THE TOP FRONT OF EACH HOISTWAY. EACH ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING 5000# (2268 KG) LOAD PER OSHA. COORDINATE LOCATION OF ATTACHMENTS WITH ELEVATOR CONTRACTOR.
5. PROVIDE HOIST BEAM SUPPORT 15,000#. COORDINATE HOISTBEAM LOCATION(S) AND LOAD REQUIREMENTS WITH ELEVATOR CONTRACTOR.
6. OVERHEAD DIMENSIONS ARE CLEAR FROM F.F. AT TOP LANDING TO STRUCTURE OR ANY OBSTRUCTION ABOVE CAR AND/OR COUNTERWEIGHT.
7. MACHINE BEAM SUPPORT. THIS SUPPORT IS REQUIRED FOR ABOVE CAR MACHINE LOCATION. VERIFY MACHINE LOCATION WITH ELEVATOR CONTRACTOR.
8. OVERHEAD REACTIONS VARY PER VENDOR BASED ON CWT LOCATION AND METHOD OF SUPPORT FOR HOIST MACHINE AND DEAD END HITCHES. COORDINATE FINAL REACTIONS WITH ELEVATOR SHOP DRAWINGS.

OVERHEAD REACTION TABLE		
DUTY: 4000# @ 200 FPM		
KEY	REACTION (FORCES IN KIPS)	
(G)	19.2	EACH
(H)	10.8	EACH

HOISTWAY NOTES:

1. PROVIDE ACCESS PANEL AT TOP TERMINAL WHEN CONTROL ROOM IS REMOTE. COORDINATE SIZE AND LOCATION WITH ELEVATOR CONTRACTOR.
2. FOR ABOVE CAR MACHINE LOCATION, ERECT ENTRANCE SIDE HOISTWAY WALL AT ELEVATOR EQUIPMENT STORAGE LEVEL AFTER ELEVATOR EQUIPMENT HAS BEEN INSTALLED IN HOISTWAY.
3. PROVIDE SMOKE VENTING PER LOCAL CODE REQUIREMENTS.
4. FOR CERTAIN MRL VENDORS, PROVIDE ADDITIONAL LATERAL SUPPORTS ABOVE THE TOP TERMINAL FOR THE LARGE GUIDE RAIL FORCES DUE TO HOIST MACHINE, DEFLECTOR SHEAVE, AND DEAD END HITCH LOADS. COORDINATE LOADING REQUIREMENTS AND LOCATIONS WITH ELEVATOR CONTRACTOR.
5. ROUGH OPENINGS VARY BY MANUFACTURER, VERIFY ROUGH OPENING BEFORE CONSTRUCTION.
6. 1070 MM (42") CAR TOP RAILING PER CODE BY ELEVATOR CONTRACTOR.
7. ABOVE CAR MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
8. SIDE CWT MACHINE LOCATION. VERIFY FINAL LOCATION WITH ELEVATOR CONTRACTOR.
9. PROVIDE STRUCTURAL SUPPORT, FOR CAR AND CWT GUIDE RAIL FASTENING AT MAX. VERTICAL SPACING THROUGH TOP OF HOISTWAY AS SPECIFIED IN RAIL SUPPORT TABLE. IF THIS SPACING CANNOT BE MAINTAINED, PROVIDE INTERMEDIATE SUPPORT BEAMS OR CONTINUOUS VERTICAL STRUCTURE BETWEEN FLOOR BEAMS.

RAIL SUPPORT TABLE		
15# RAILS		
CAR GUIDE RAIL	10'-6"	MAX SPAN
CWT GUIDE RAIL	10'-6"	MAX SPAN

CONTROL ROOM NOTES:

1. PROVIDE SELF-CLOSING, SELF-LOCKING CONTROL ROOM ACCESS DOOR.
2. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 200 LUX (19 FC) ILLUMINATION AT CONTROL ROOM FLOOR.
3. PROVIDE 3-PHASE MAINLINE POWER FEEDER WITH DISCONNECTING MEANS FOR EACH ELEVATOR CONTROLLER.
4. PROVIDE 1-PHASE FEEDER WITH DISCONNECTING MEANS FOR CAR LIGHTING, VENTILATION SYSTEM AND RECEPTACLE FOR EACH ELEVATOR. THESE DISCONNECTING MEANS SHALL INCLUDE OVERCURRENT PROTECTION, SHALL BE LOCATED IN THE MACHINE ROOM, AND SHALL MEET N.E.C. REQUIREMENTS.
5. FOR MOST VENDORS, CONTROLLER MUST BE WITHIN 100' WIRE RUN LENGTH FROM THE CORRESPONDING MACHINE AT THE TOP OF THE HOISTWAY.

PIT NOTES:

1. PROVIDE ADEQUATE LIGHTING TO MAINTAIN MIN. 100 LUX (10 FC) ILLUMINATION AT PIT FLOOR.
2. PROVIDE PIT ACCESS LADDER(S) OR DOOR(S), LIGHT SWITCH(ES), LIGHT(S), AND GFCI-PROTECTED UTILITY OUTLET(S).
3. COORDINATE LIGHT FIXTURES AND UTILITY OUTLETS LOCATION WITH ELEVATOR CONTRACTOR.
4. PROVIDE ADEQUATE STRUCTURAL SUPPORT REQUIRED FOR BUFFER AND R3 RAIL FORCE REACTIONS.
5. ELEVATOR CONTRACTOR PROVIDE PERMANENT MEANS TO ACCESS UNDERSIDE OF CAR AS REQUIRED.
6. PROVIDE INDIRECT PIT DRAIN OR 24"x24"x24" SUMP PUMP, WITH GRATING COVER, LEVEL WITH PIT FLOOR. PROVIDE MINIMUM SUMP PUMP/DRAIN CAPACITY OF 3000 GALLONS/HOUR PER ELEVATOR.
7. ELEVATOR CONTRACTOR IS TO PROVIDE A COUNTERWEIGHT GUARD PER CODE.
8. ELEVATOR CONTRACTOR TO PROVIDE BUFFER ACCESS PLATFORM AND LADDER AS REQUIRED.
9. CAR/CWT BUFFER REACTIONS WILL NOT OCCUR SIMULTANEOUSLY. UNLESS SPECIFIED OTHERWISE.
10. REACTIONS HAVE BEEN DOUBLED FOR IMPACT.

PIT REACTION TABLE			
DUTY: 4000# @ 200 FPM			
KEY	REACTION (FORCES IN KIPS)	DESCRIPTION	
(A)	53.3		CAR BUFFER
(B)	48.8		CWT BUFFER
(C)	32.2	EACH	CAR SAFETY (SEE CAR R3 RAIL FORCES)
ALTERNATE PIT REACTIONS FOR RAIL SUPPORTED MACHINE			
THE FOLLOWING REACTIONS DO OCCUR SIMULTANEOUSLY.			
(D)	32.0	EACH	DRIVE MACHINE LOAD ON CAR RAIL COMBINED WITH CWT DEH LOAD ON CWT RAIL
(E)	23.0	EACH	DYNAMIC LOAD ON CAR RAIL
(F)	10.7	EACH	DYNAMIC LOAD ON CWT RAIL

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DEER VALLEY, UT

No.	Description	Date

Sheet Name

PLANS AND HOISTWAY  
SECTION - TOWER C -  
ELEVATOR TENANT 5

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Scale AS NOTED