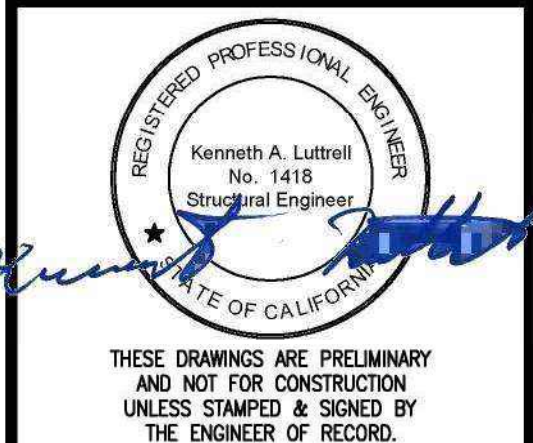
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S.E. PC APPROVAL



**M-E-M**  
MODULAR  
ELEVATOR  
MANUFACTURING

**MODULAR ELEVATOR  
MANUFACTURING, INC.**  
P.O. BOX 3998  
CHATSWORTH, CA. 91313  
800-755-9359

PRE-CHECK (PC) DOCUMENTS  
2016 CBC CODE  
A SEPARATE PROJECT APPLICATION FOR  
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PROJECT NO:	16093
DATE:	10/19/2018
ENGINEERED BY:	KAL
DRAWN BY:	MTC

FILE NO. PC-MEM

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES

APPL. 03-118291

AC MF FLS EB SS MC/MK  
DATE 11/3/2018

PRE-CHECK (PC) DOCUMENT  
CODE: 2015

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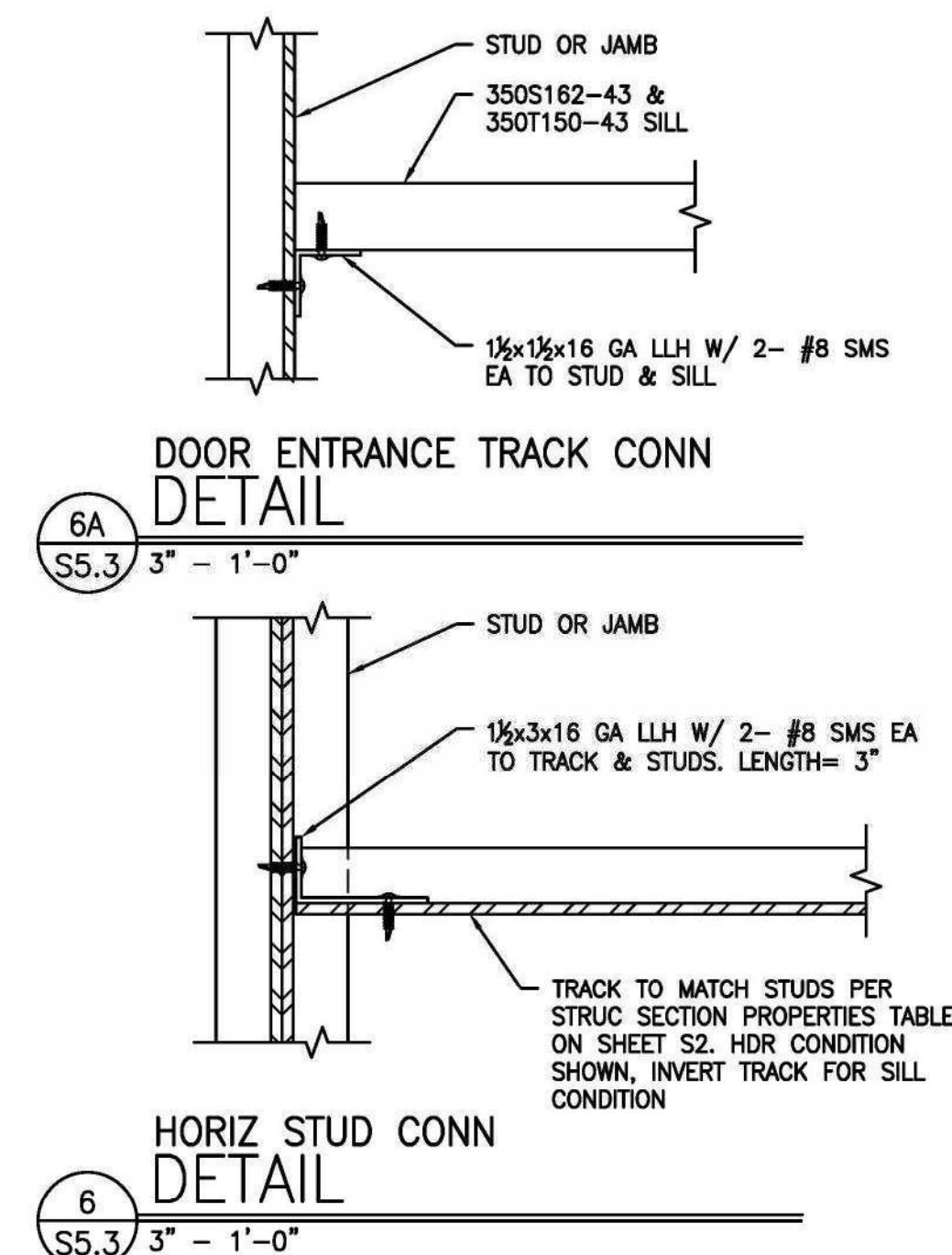
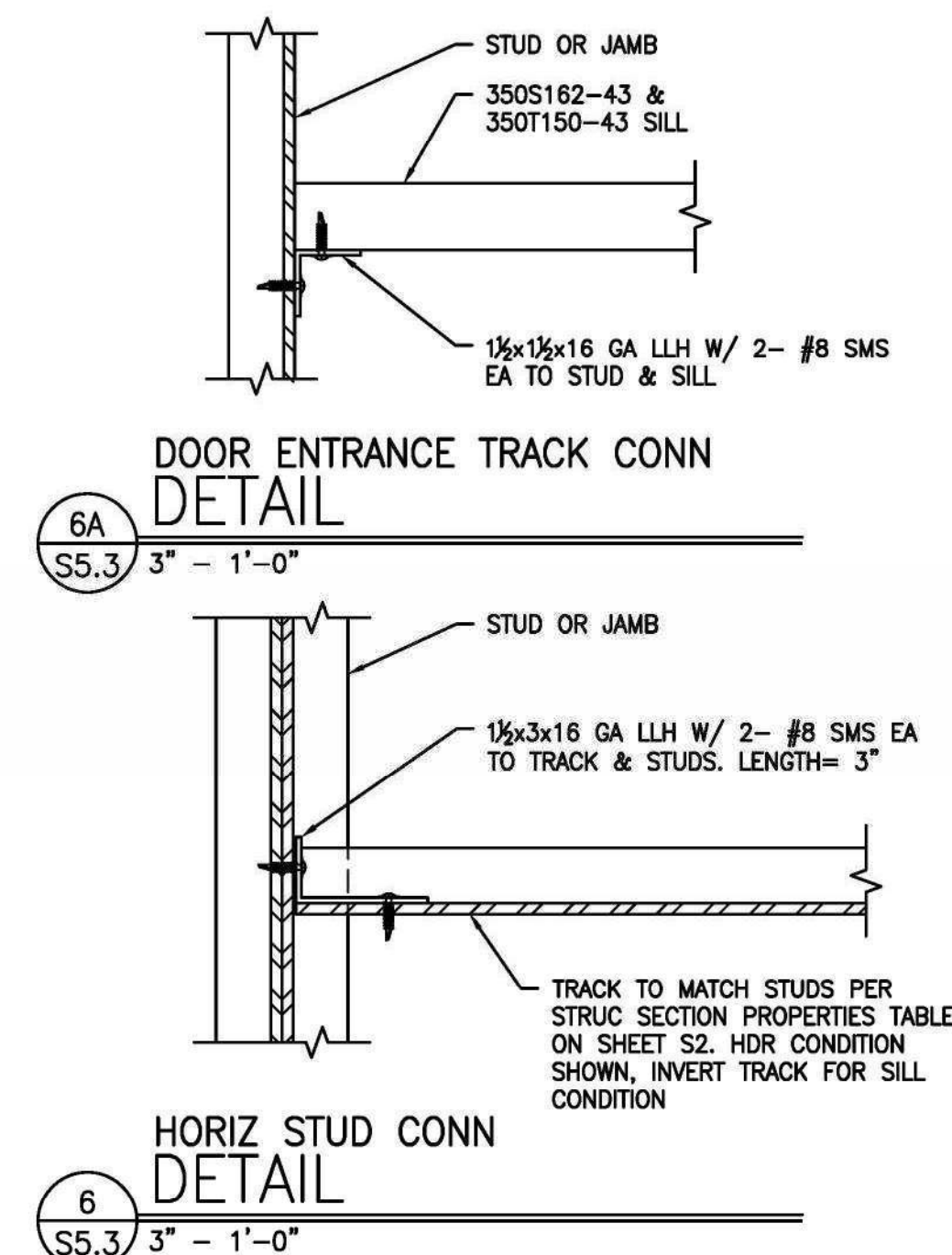
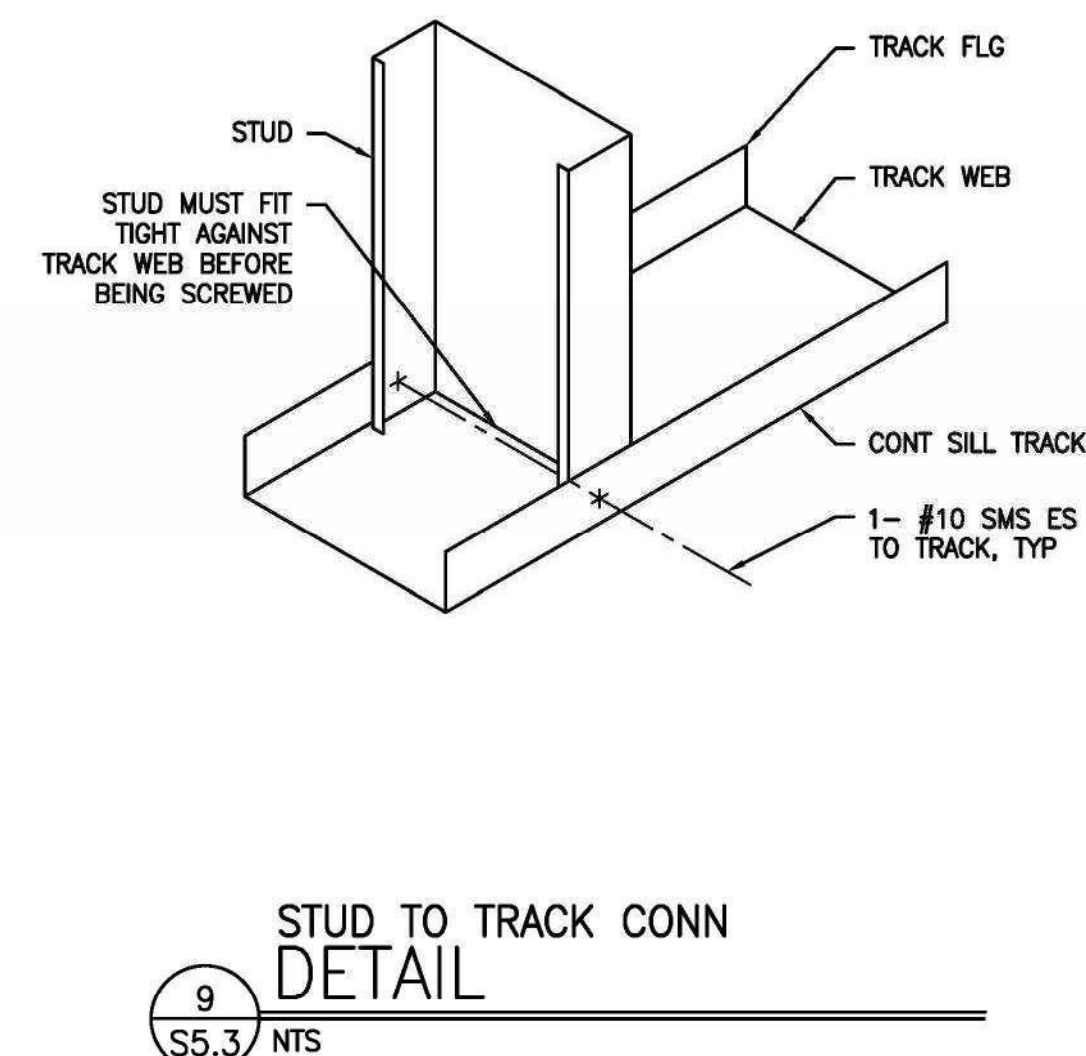
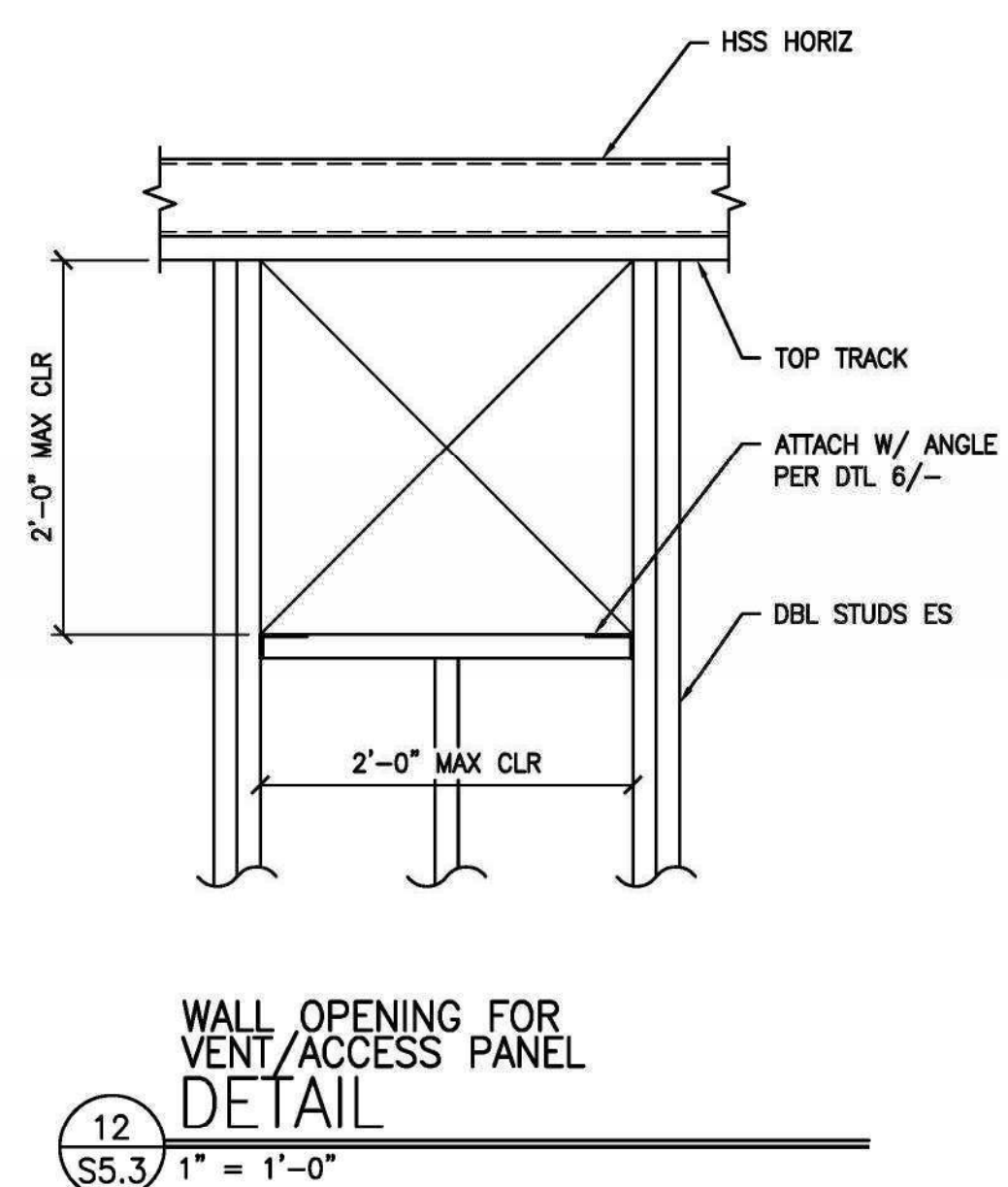
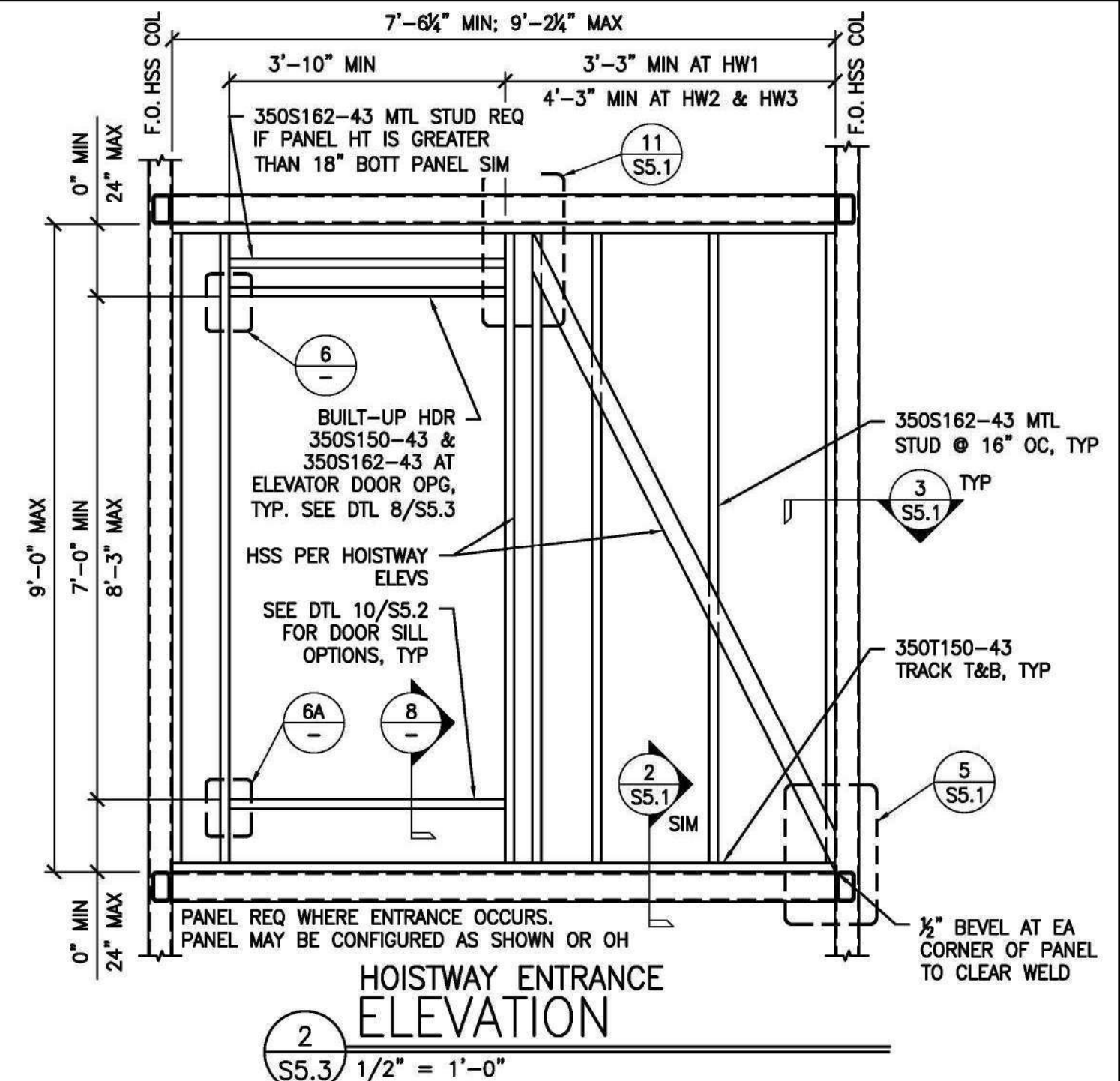
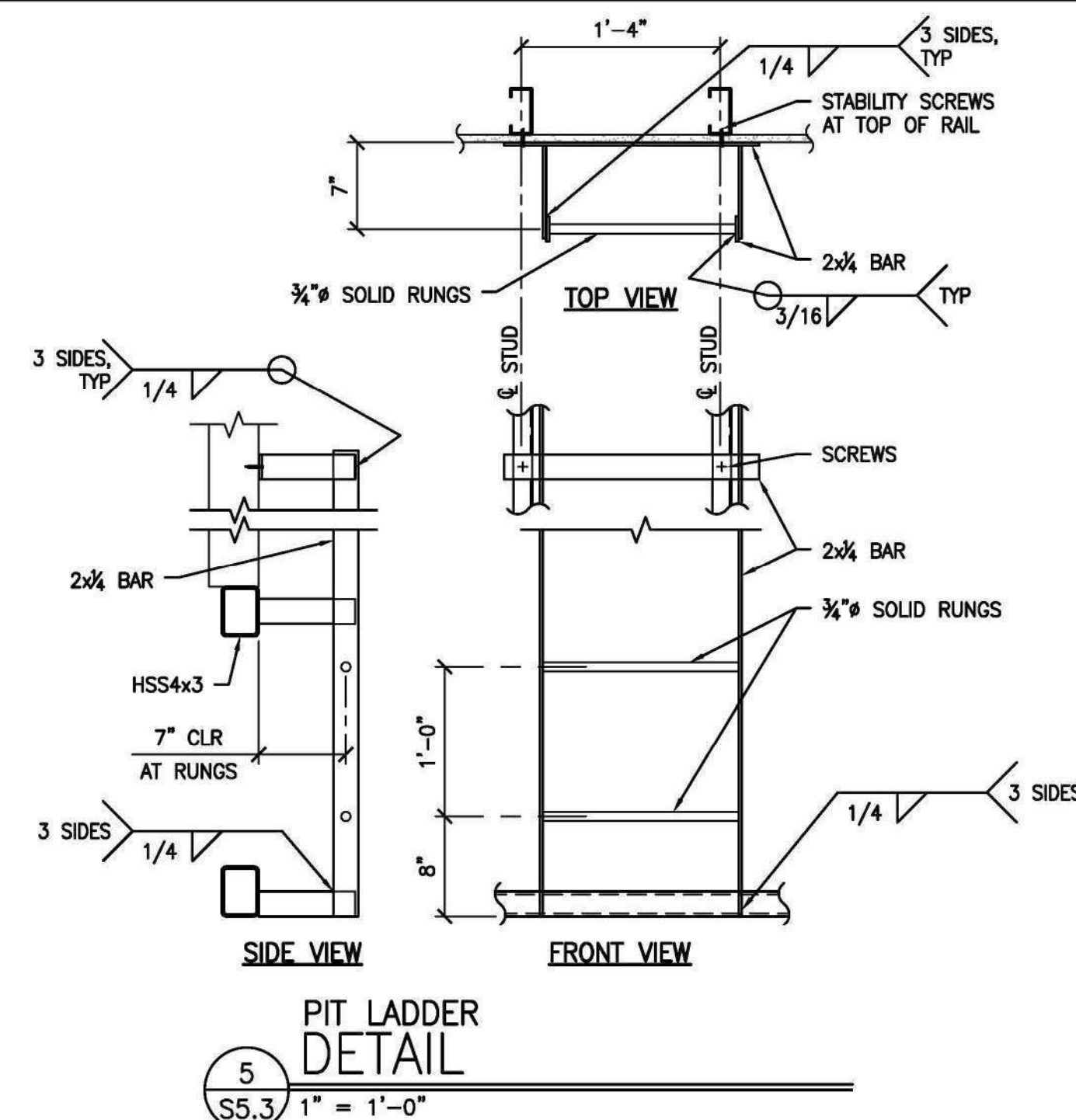
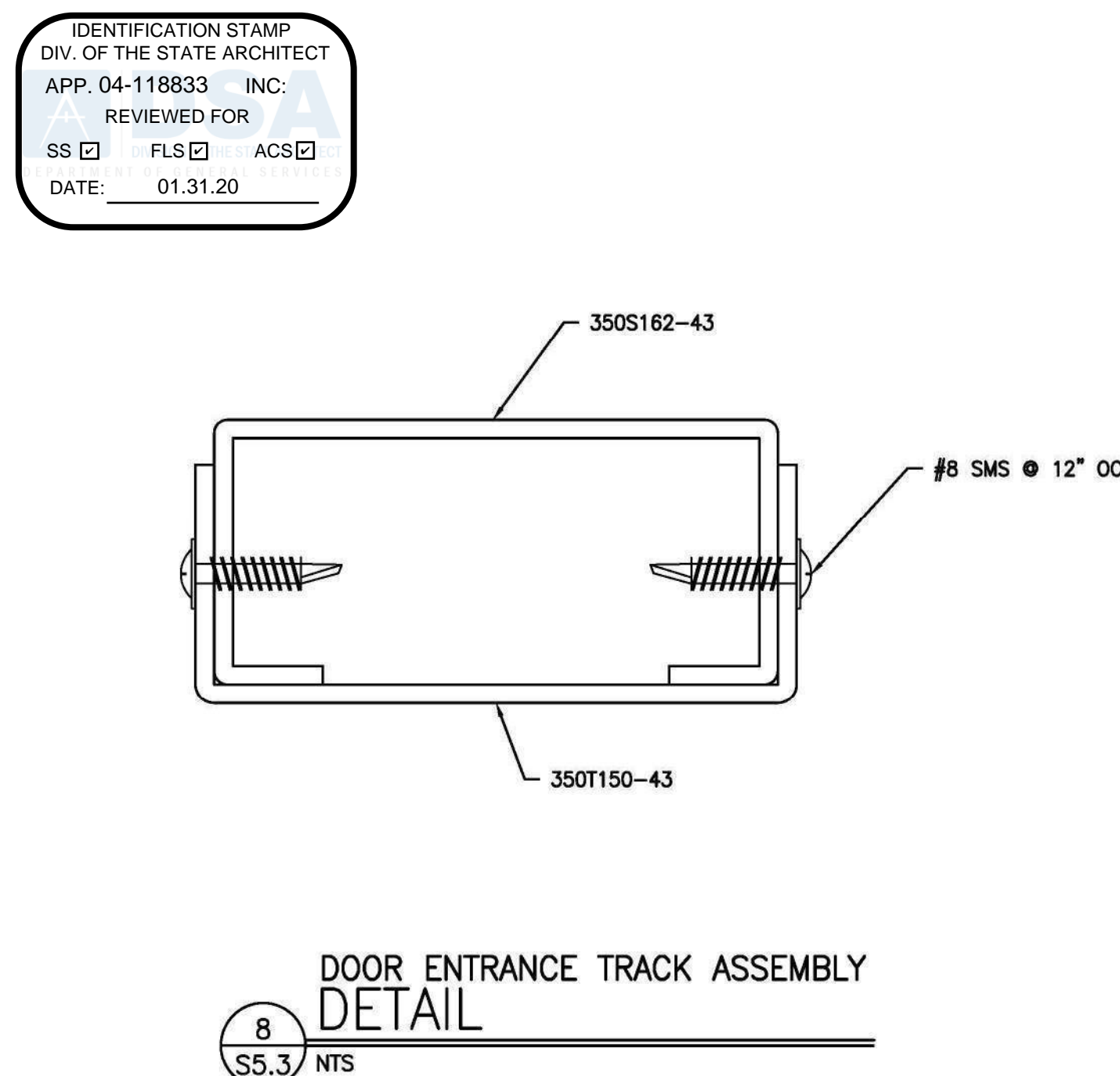
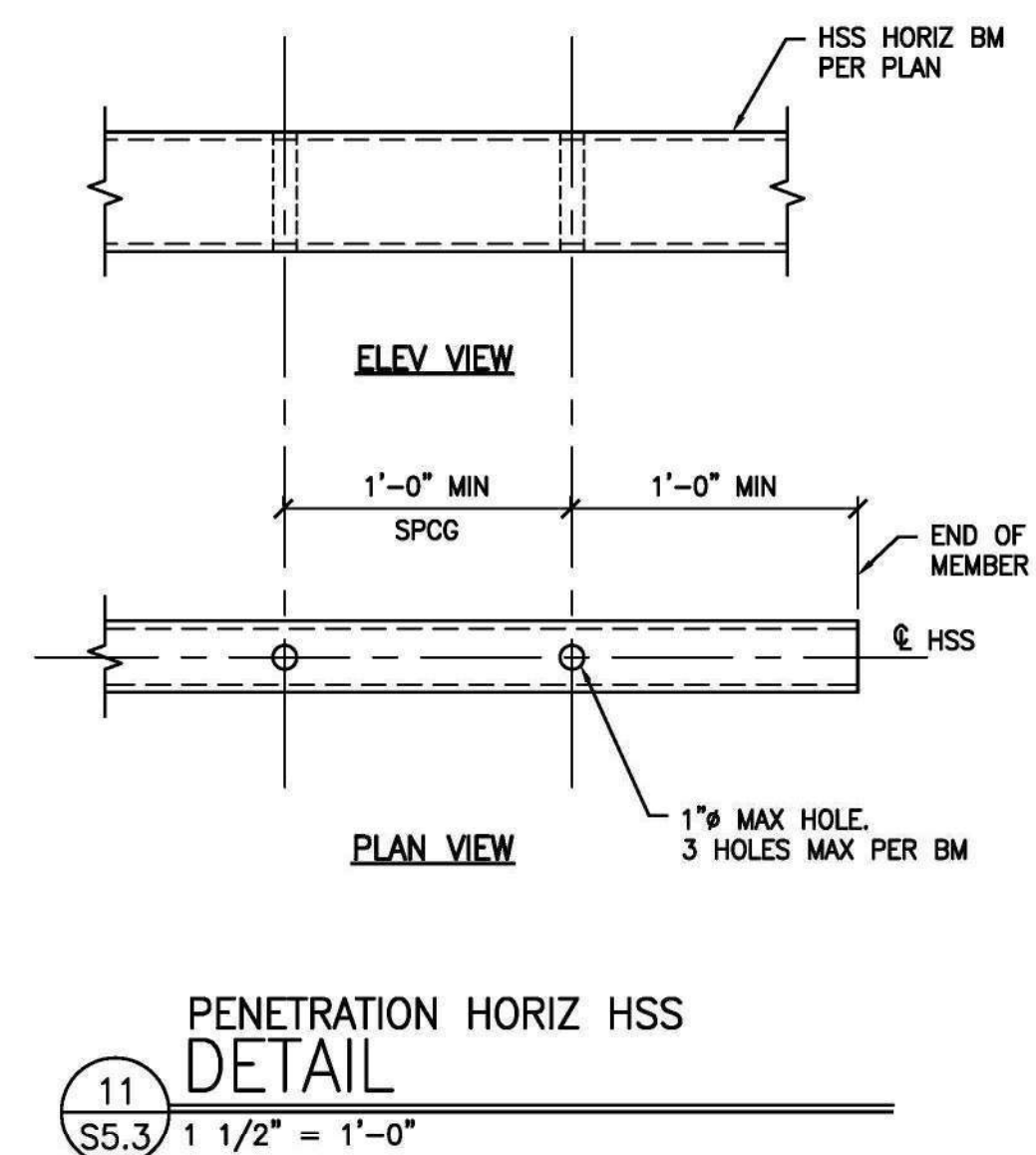
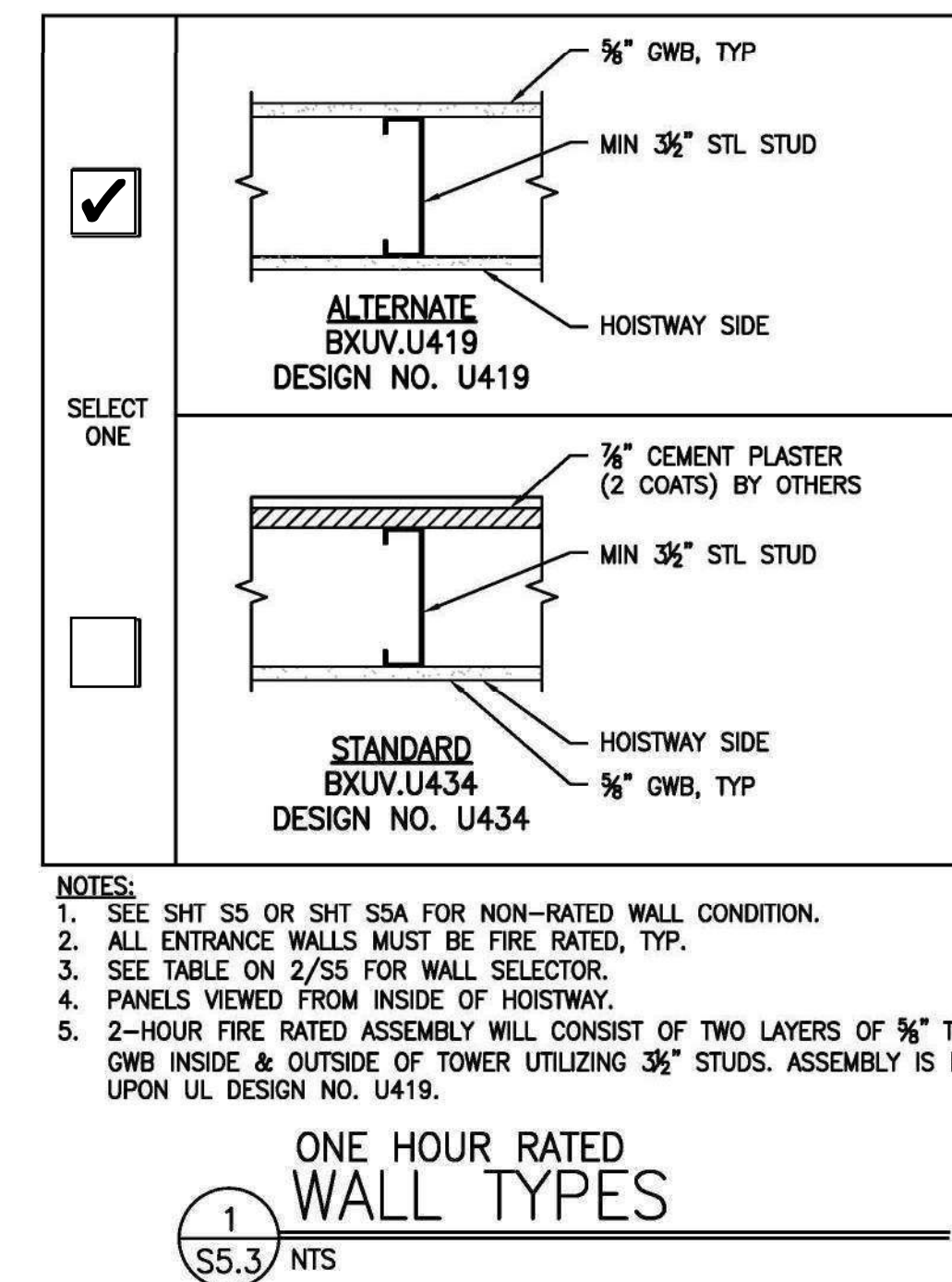
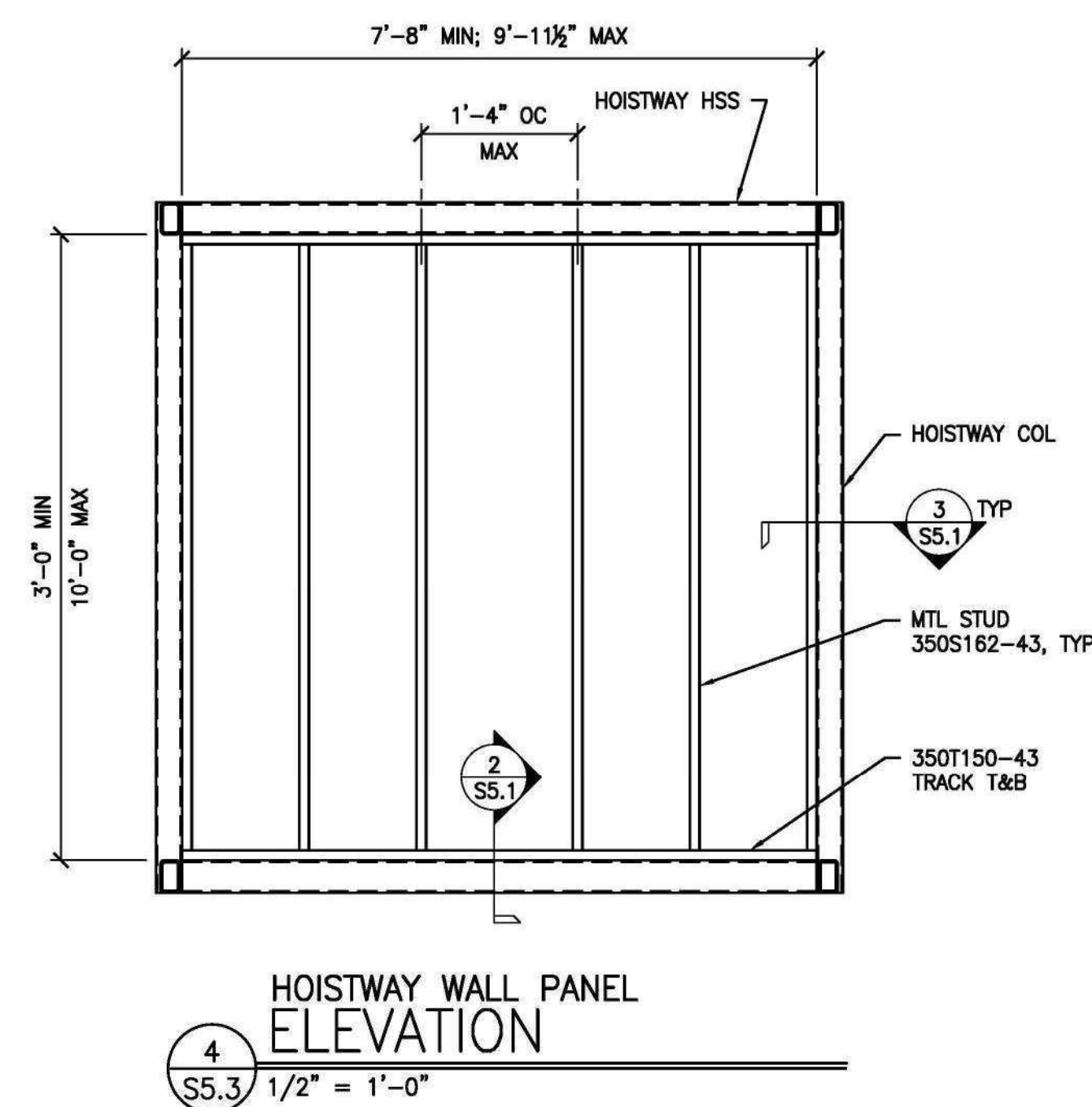
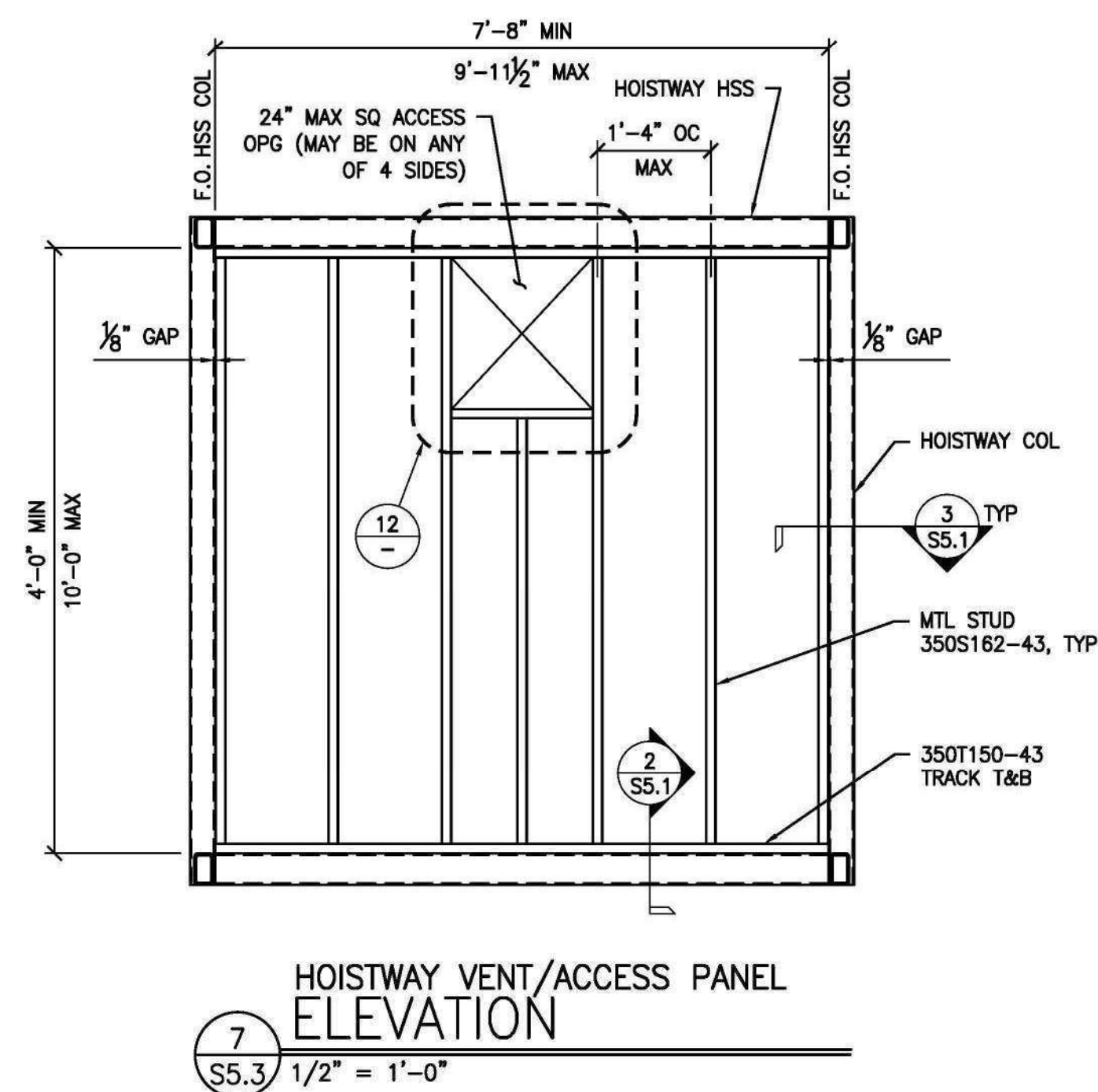
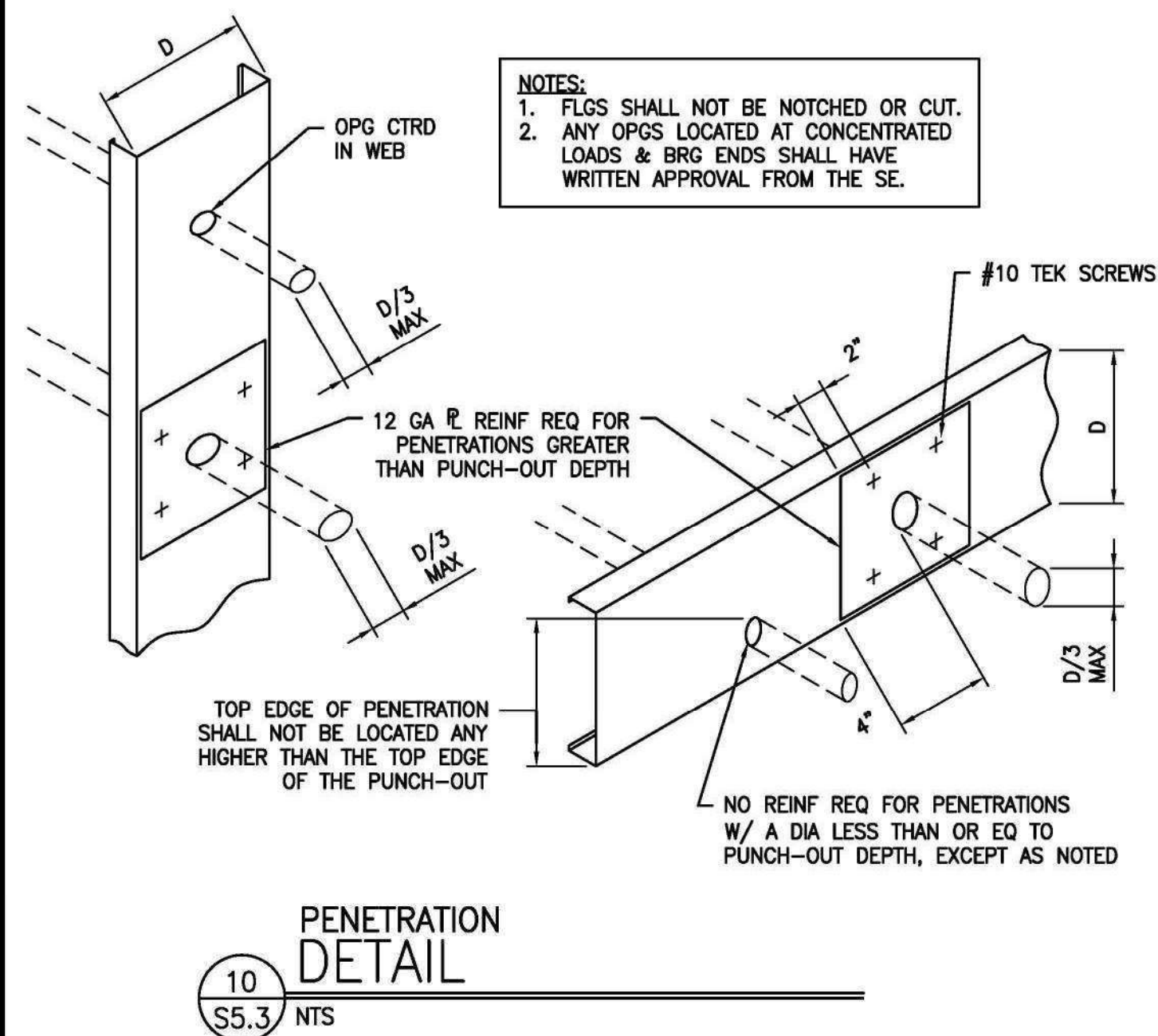
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MISCELLANEOUS  
DETAILS

SHEET NO:

## S5.2

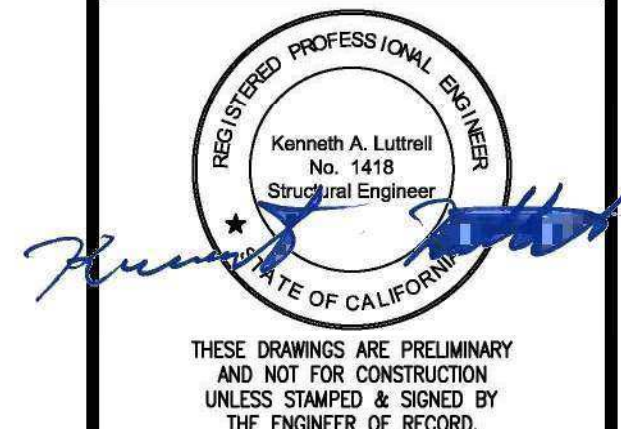




NOT USED

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**M=EM**  
INC.  
MODULAR  
ELEVATOR  
MANUFACTURING

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MANUFACTURING, INC.**  
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DATE:	10/19/2018
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DRAWN BY:	MTC

FILE NO. PC-MEM

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DATE 11/3/2018

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SHEET NAME:

HOISTWAY WALL  
PANELS

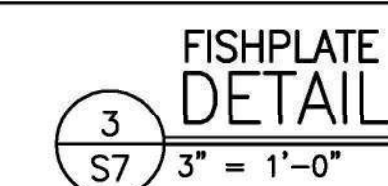
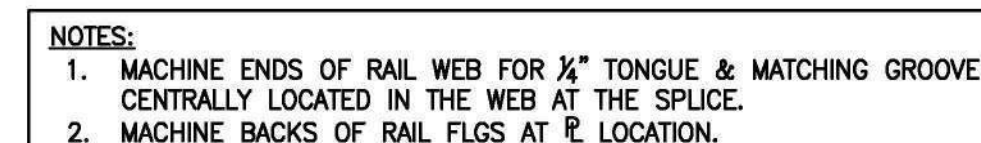
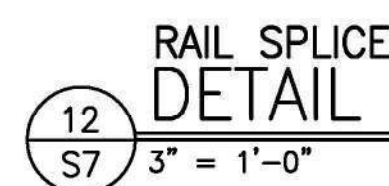
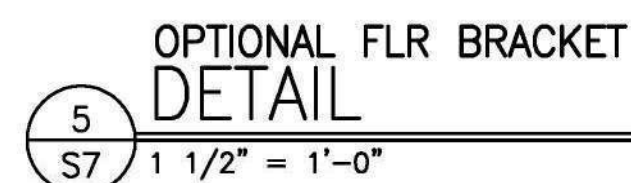
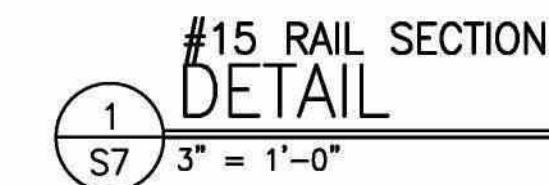
SHEET NO:

## S5.3





NOTE: MAX BRACKET SPCG 9'-4"

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PROJECT NO: 16093

DATE: 10/19/2018

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DRAWN BY: MTC

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PRE-CHECK (PC) DOCUMENT  
CODE: 2016  
A SEPARATE PROJECT APPLICATION FOR  
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SHEET NAME:

## RAIL & POWER UNIT DETAILS

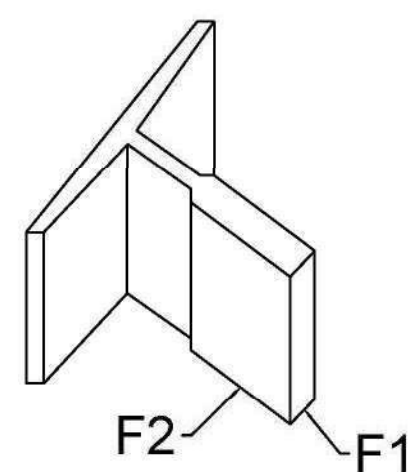
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SHEET NO:

S7



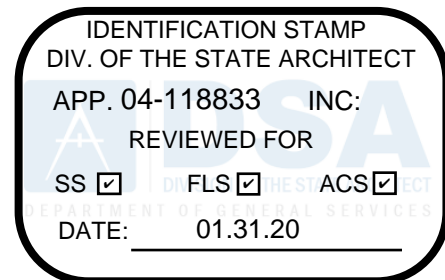
1. Setting of anchor bolts and sleeves, plumb and level GC MUST utilize the setting template provided by Elevator Contractor. GC must insure that anchor bolts and sleeves are properly secured to avoid movement during concrete pour, are clean of all debris prior to setting of the hoistway, and are positioned as per plans and verified.
2. Any concrete coring, if required, of the pit walls for feedline and electrical conduit penetrations. Coring to be performed AFTER hoistway is set in place. All water proofing.
3. Any grouting of the sills or hoistway frames, if required.
4. Machine room slab and foundation as required.
5. All Electrical service to the elevator machine room. All electrical must comply with the current version of the California Electric Code (CEC) and / or the National Electric Code (NEC) as they apply for new elevator installations. GC shall provide the following:
  - a. Electrical service to the machine room and connection to the disconnect must be stubbed out in the proper location within machine room.
  - b. All electrical wiring, including low voltage wiring, within the machine room must be EMT or rigid conduit.
  - c. Electrical service to elevator motor as indicated on the elevator drawings. (See elevator layout drawings).
  - d. 110 V 20 amp dedicated service for elevator car
  - e. 110 V 20 amp dedicated service for the hoistway.
  - f. 110 V 20 amp dedicated service for machine room circuit
  - g. Dedicated telephone line to the machine room terminated at a jack, and live. (Ring down features are not acceptable.) GC is responsible for submitting the telephone number to be programmed into elevator telephone system, and the actual telephone number of the dedicated telephone line for the elevator.
  - h. Smoke detector in machine room with one set of normally closed dry contacts for the elevator.
  - i. Fire signaling device at each landing with one set of normally closed dry contacts (egress floor must be "closed" contacts) for the elevator, wired back to the machine room and must be operational.
  - j. Grounding of the hoistway and equipment room structures including grounding and lightening rods.
6. The machine room cannot be used for the storage of ANY items.
7. All trenching from machine room to pit. Trench must be 18" - 24" wide. Trenching is required for ALL remote machine room applications. All trenching must be done prior to the pouring of the machine room slab, piping will be run in trench from machine room location to outside of the pit wall and terminated until elevator is set. If elevator can be set prior to machine room pad being poured then full run can be completed in trench from hoistway to the machine room.
8. Underground secondary pipe containment (double wall pipe) drainage point to be provided at point convenient to piping system and with services at that drainage point for leak detection devices. (If required.)
9. Leak detection signaling device to be located within 10' of actual detection device. (If required.)
10. All back filling. Back filling must be coordinated with the elevator contractor after all feedlines and conduits have been installed and tested.
11. Access to the hoistway for other trades is not included. Stand-by time shall be considered an additional cost and billed at elevator rates.
12. Electrical, plumbing or mechanical equipment may not be placed or run in the hoistway or machine room unless approved by Elevator Contractor.
13. All inspections and fees for any government mandated factory inspections. Arrangements must be made prior to production commencement.
14. GC shall be responsible for insuring that at time of delivery the site will be ready for setting of the elevator
  - a. All forms are removed from the pit
  - b. Pit dry.
  - c. Anchor bolts are clean and sleeves clear of debris.
  - d. Crane access available.
15. GC to insure that pit is kept in a dry condition and structure is protected from inclement weather. Damaged materials and / or extra labor resulting from water shall be an extra cost to the elevator contract.
16. Execution of crane company's waiver of liability forms.
17. GC shall be responsible for any damage resulting from driving crane onto site, being set onto the site and during the placement of the elevator hoistway. This includes, but not limited to damage to: Trees, any concrete, curbs, driveways, walkways, lawns, asphalt, gates, fences and underground utilities.
18. GC is responsible for appropriate site access for crane set and equipment delivery. A minimum 70-foot working radius is required for the crane. This includes but is not limited to:
  - a. Traffic control
  - b. Special provisions related to power lines, trees, occupied buildings, FAA permits, etc.
  - c. Any and all fencing removal and replacement for crane and truck access.
  - d. All removal must be done prior to arrival of crane on site.
  - e. Any and all vegetation removal or trimming for crane and truck access to elevator final destination.
  - f. Protection to all concrete, asphalt, curbs, walkways, building and underground structures, landscaping affected by crane and truck access and set.
19. Unless otherwise noted: Crane set of elevator is based elevator set taking place mid-week mornings between 7:00 AM and 11:00 AM with 70-ton crane.
20. Structural attachment of hoistway to existing structure. (if required)
21. Removal of any obstructions necessary to install the equipment.
22. Site gurney compliance via stairs or other means, if required.
23. Installation of any building expansion joints, if required.
24. For holed elevators only, the cost for drilling the wellhole is based upon four (4) hours of drilling; utilizing a standard truck mounted drilling rig and drilling through normal soil conditions. GC is responsible to provide free, unobstructed access to the site for our truck mounted drill rig. Free access means adequate and unrestricted access to the pit as required for the move-in of equipment for the purpose of drilling the cylinder well. Should driller encounter any obstruction, including but not limited to rock, boulder, water, quicksand or any other unusual soil condition or should driller be required to utilize any special tools, an additional cost will be added to the Contract. Any costs beyond drillers standard drilling shall be considered as a result of conditions beyond the reasonable control of Elevator Contractor. & those additional costs will be charged back to the GC. All drilling spoils are to be removed.
25. Cab flooring and appropriate sub-flooring.
26. Vent in machine room. Machine room temperature shall not be lower than 40 degrees Fahrenheit or exceed 104 degrees Fahrenheit or exceed manufacturer's recommendations.
27. Venting of hoistway (only applicable for elevators with more than two stops).
28. Sprinklers, or heat sensors in the machine room and / or hoistway (if required). If sprinklers are provided, the shunt trip devices must also be provided.
29. Flashing between structures at locations including, but not limited to, the: pit, slab, modular equipment room roof and hoistway. These locations must be detailed and provided for water tightness.
30. "ABC" type fire extinguisher in machine room.
31. Exterior finish of the hoistway and machine room.
32. Exterior and interior painting or finishing.
33. Parapets, downspouts, scuppers, embellishments as well as any other modifications beyond details shown on manufacture's shop drawings .
34. Finished roofing.
35. Verification of correctness of placement of elevator pit is by others. Elevator company is to install elevator in pit provided by others.



MAXIMUM SEISMIC REACTION		
ELEVATOR CAPACITY	4000 LBS. MAX	
	NORMAL	SEISMIC
F1	287	2212
F2	140	962
BASED UPON 15# RAILS GR 50.		
MAX RAIL BRACKET SPACING = 9'-4"		

MAX FORCES ON PIT FLOOR	
LOCATION	FORCE IN LBS.
AT JACK (BOTH)	13,740
AT EA. BUFFER	14,740

BUFFERS ARE LOCATED  
APPROX. 12" FROM  $\phi$  OF JACK  
UNIT IN A LINE PARALLEL TO  
WIDTH OF HATCH



MAXIMUM ALLOWABLE SPECIFICATION & DATA	
MODEL	ALL
CAPACITY (LBS)	4000
HOISTWAY MODEL	ALL
TYPE	PASSENGER
OPERATION	SIMPLEX COLLECTIVE
LOADING	CLASS A
POWER SUPPLY	208 - 480 VOLTS / 3 PH / 60 HZ
MOTOR STARTER	VARIABLE
CONTROL TYPE	MICROPROCESSOR
DOOR OPERATOR	GAL MOVFR II
SPEED (FPM)	100 - 150 FPM
LANDINGS	2 TO 7
OPENINGS	4 FRONT / 3 REAR
TRAVEL	37'-9" MAX
CROSSHEAD	C5 X 9#
STILE	C8 X 11.5#
PLANK	C6 X 10.5#
GUIDE RAILS	15# (Fy= 50 KSI)
PLATFORM SIZE (INCHES)	92" X 72"
PLATFORM THICKNESS	3.25 INCHES
FINISHED FLOOR THICKNESS	0.25 INCHES
GUIDE SHOES	SLIDING SWIVEL
BUFFERS (QTY)	SPRING (2)
RATING:	10655 LBS EACH
STROKE:	2.5 INCHES

<b>WEIGHTS</b>	
HOISTWAY DOOR	275
CAR DOOR	275
PISTON WEIGHT (MAXIMUM)	1200
CAR WEIGHT	4000
GROSS WEIGHT (MAXIMUM)	9000

<b>PRESSURE &amp; FLOW</b>	
STATIC PRESSURE (PSI)	235
WORKING PRESSURE : (PSI)	500
G.P.M.	124

<b>PUMP UNIT</b>	
MOTOR HP	50
MOTOR RPM	3400
FULL LOAD AMPS	150
STARTING AMPS	307
PUMP	TO SUIT
PUMP RPM	1800
VALVE	TO SUIT
VALVE VOLTAGE	120 VOLTS
FEED PIPE SIZE	SIZE TO SUIT. SCHED. 80

<b>HYDRAULIC JACKS</b>	
TYPE	ALL TYPES

PLUNGER O.D	6.5"
PLUNGER LENGTH	40'-0"
CYLINDER O.D.	8.63"
CYLINDER WALL THICKNESS	0.801"
CYLINDER LENGTH	40'-0"
TOP OVERTRAVEL	24"
BOTTOM OVERTRAVEL	11"

<b>MACHINE ROOM</b>	
POSITION	ATTACHED OR REMOTE

<b>HOISTWAY ENTRANCE</b>	
TYPE	SINGLE SLIDE OR 2 SPEED
SIZE	4'0" X 8'-0"
DOOR WEIGHT	275

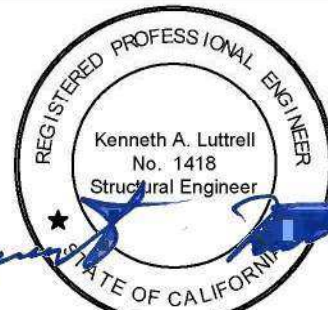
CAB	
STYLE	METAL
HEIGHT	10'-0"
CAR DOOR OPERATION	SINGLE SLIDE OR 2 SPEED

<b>SIGNALS</b>	
HALL	PER CODE. SEE 7/NT4
CAR	PER CODE. SEE 8/NT4

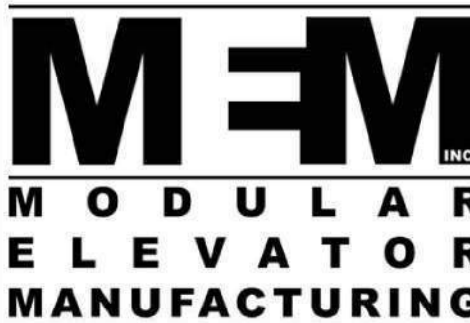
ALL SPECIFIED ITEMS SHOWN ARE RECOMMENDED AND  
"OR EQUAL" PRODUCTS MAY BE SUBSTITUTED.

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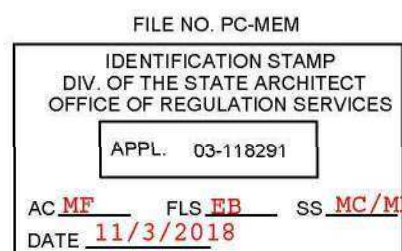
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DATE: 10/19/2018

ENGINEERED BY: KAL

DRAWN BY: MTC



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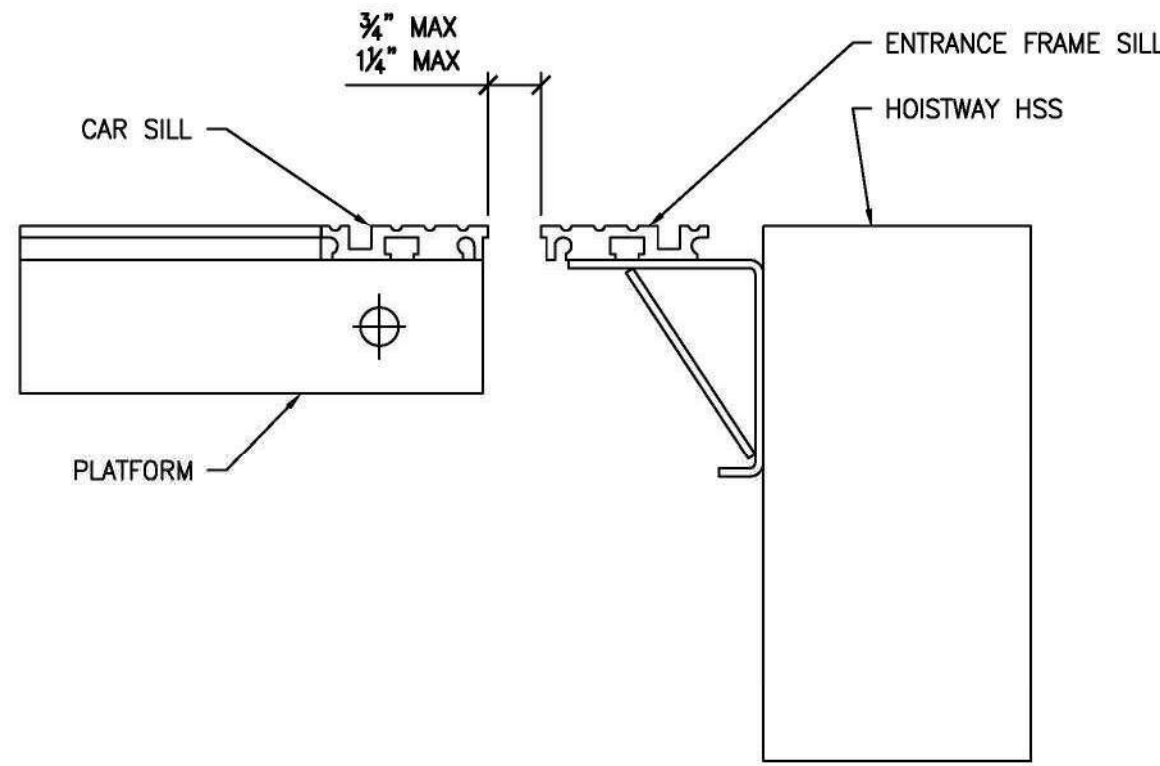
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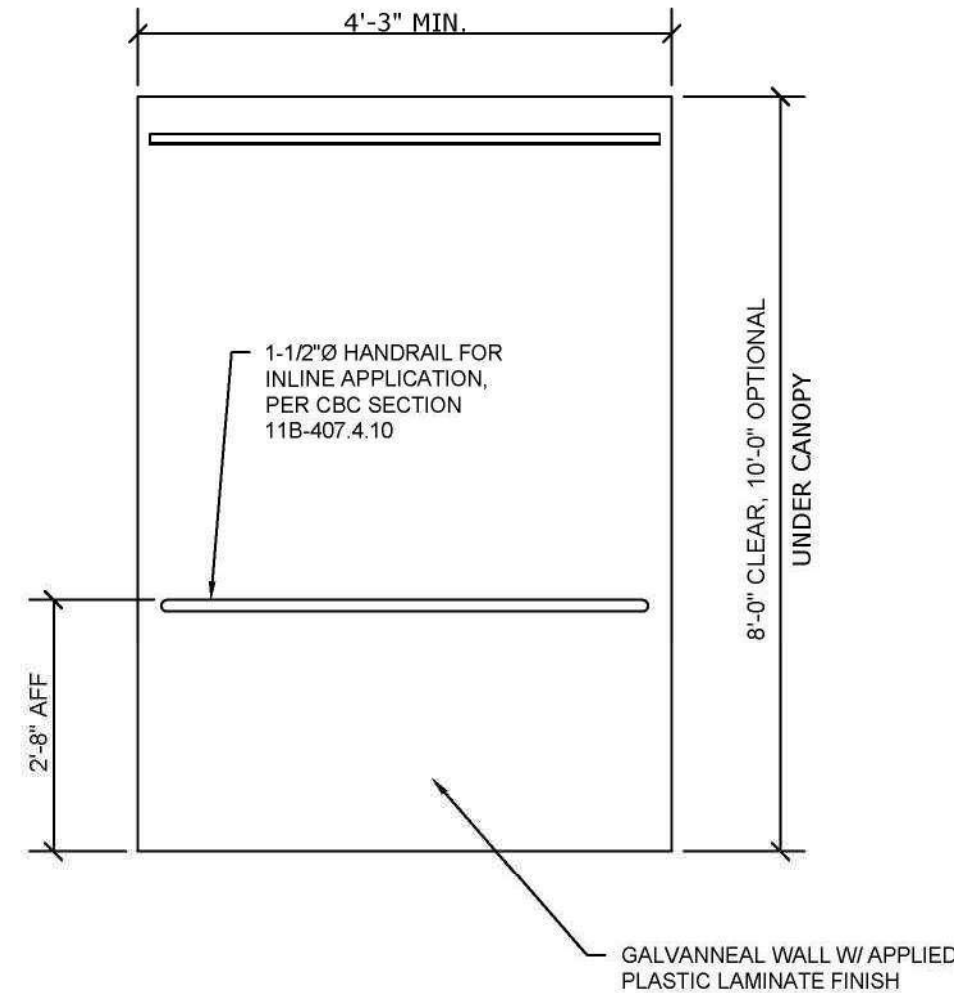
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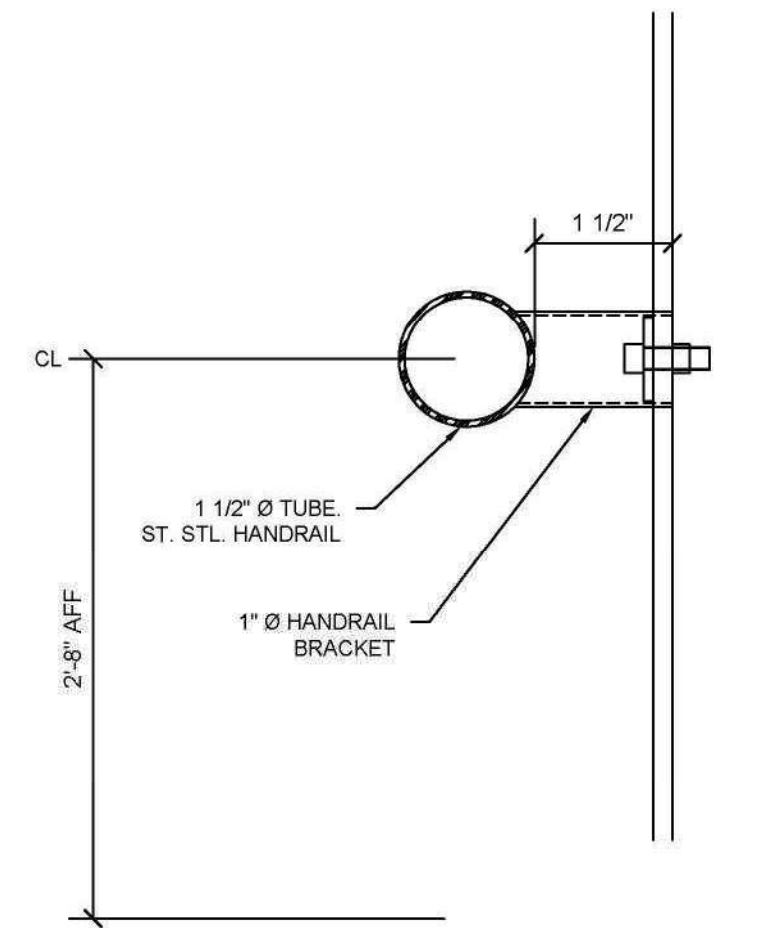
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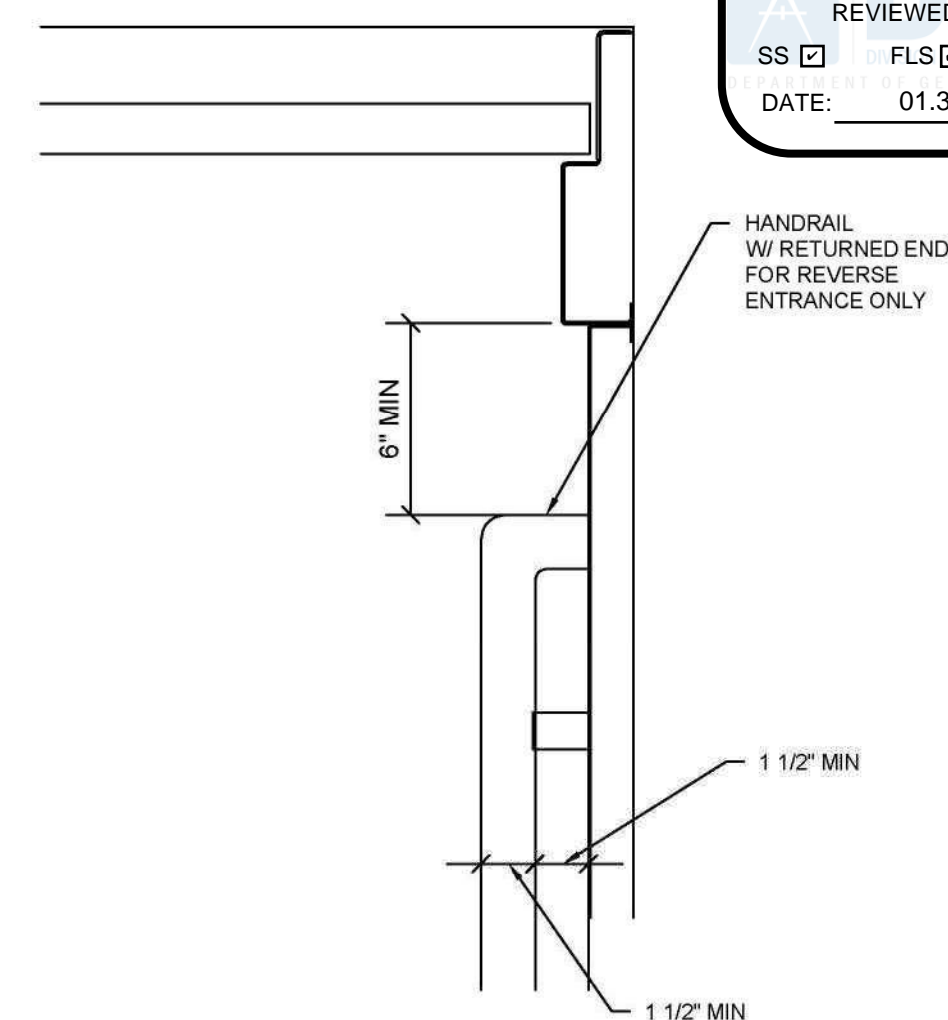
7 CAR & HALL SILLS DETAIL  
NTS



4 REAR WALL  
NTS

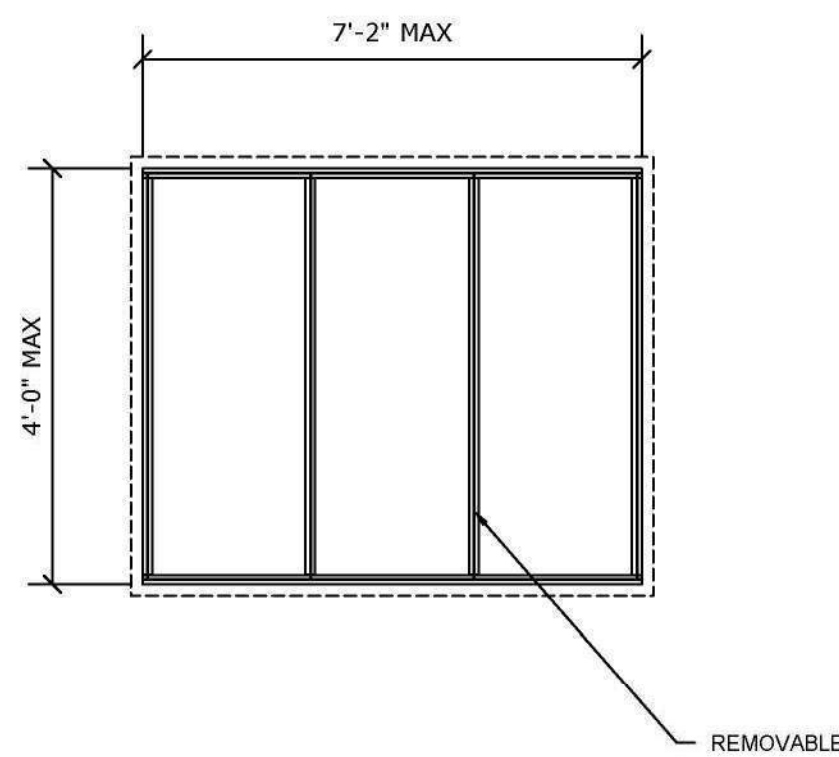


1B SECTION TRU HANDRAIL  
NTS

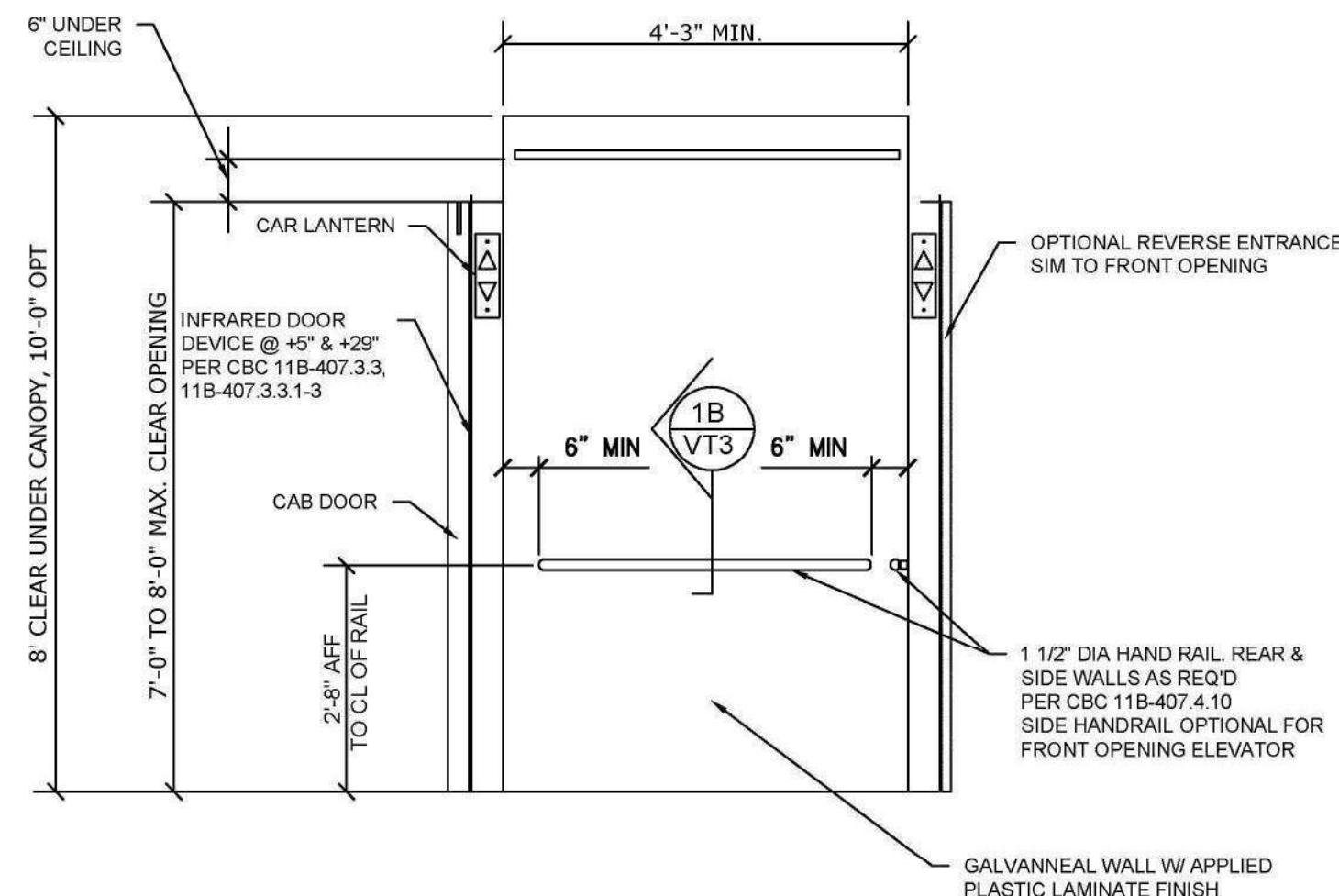


1A PLAN: HANDRAIL AT RETURNED END  
NTS

NOTE: DIMENSIONS TO SUIT OVERALL CAB ENCLOSURE DIMENSIONS

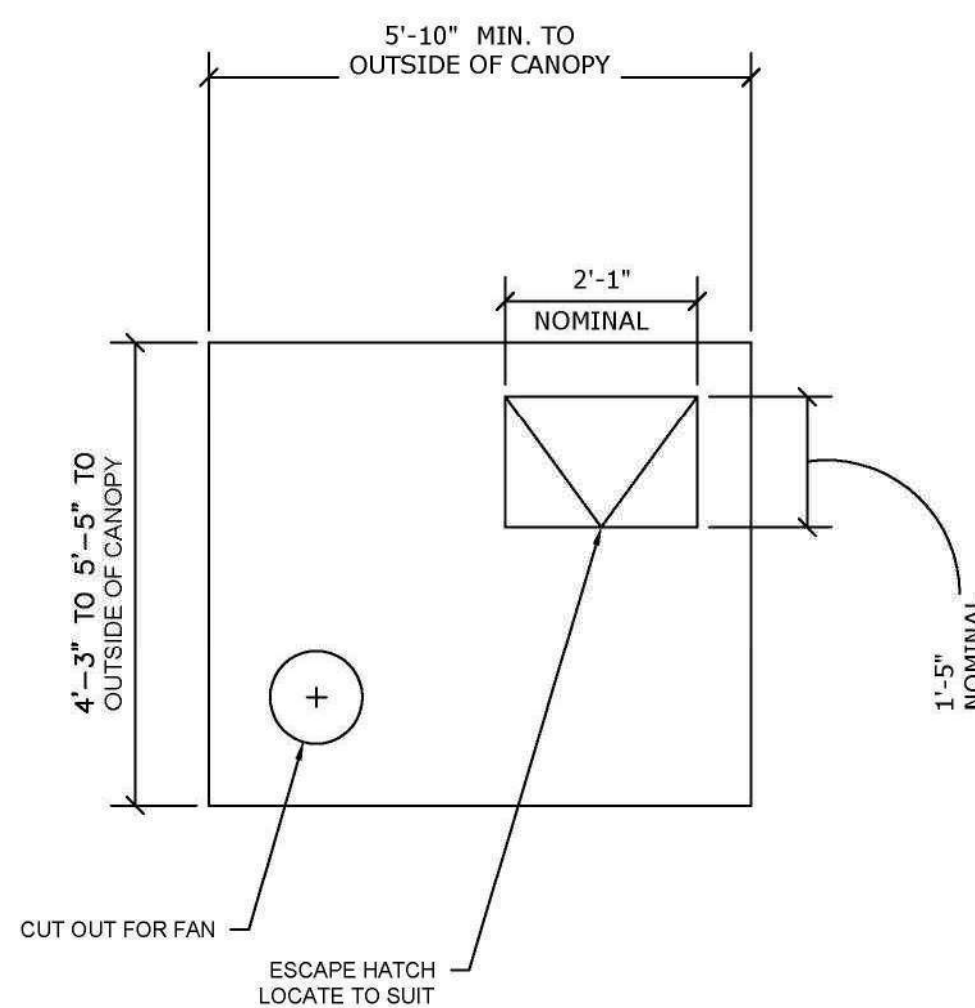


6 T-BAR CEILING FRAME FOR ELEVATOR CAR  
NTS



3 SIDE WALL  
NTS

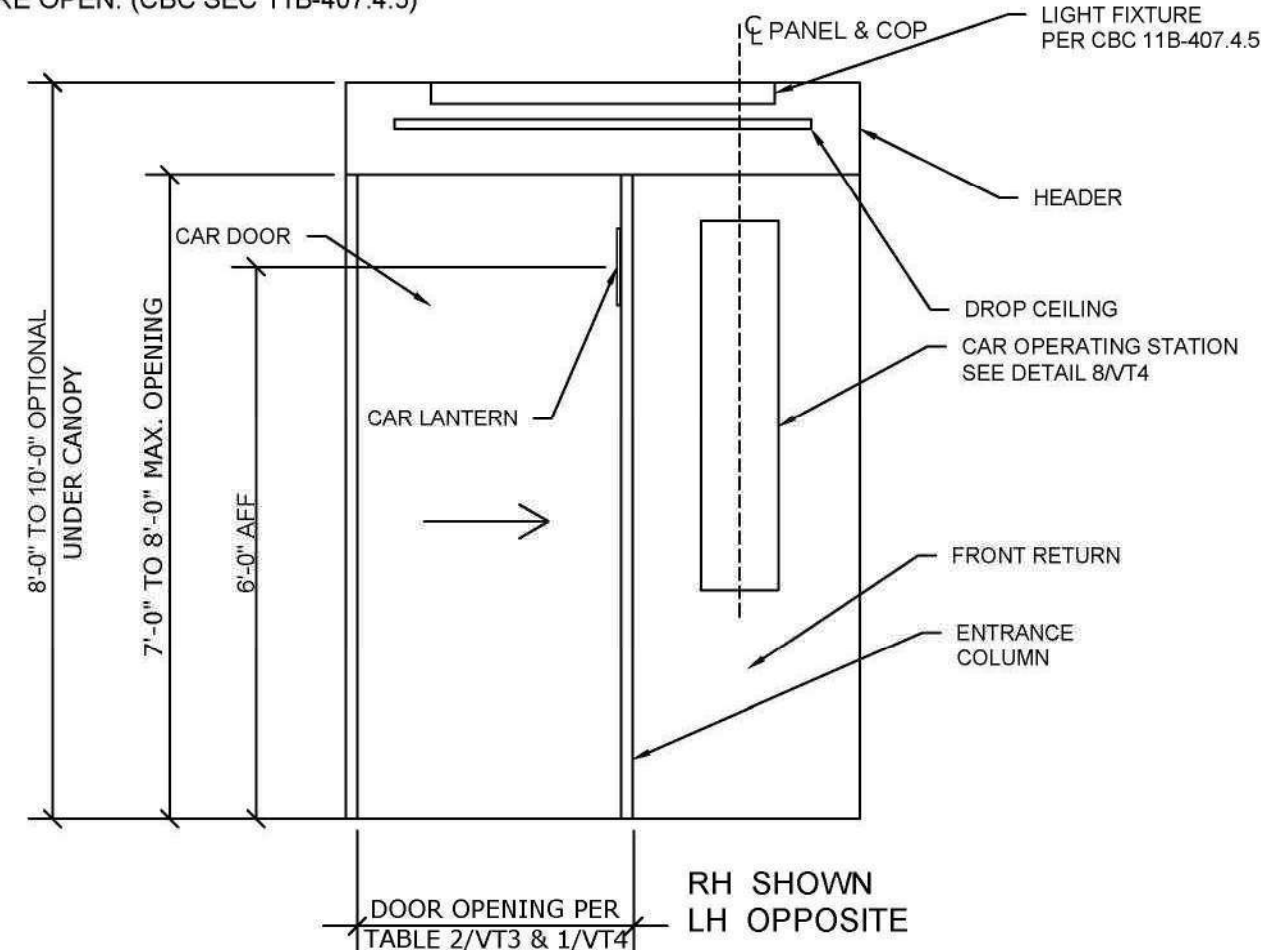
NOTE: DIMENSIONS TO SUIT OVERALL CAB ENCLOSURE DIMENSIONS



5 ELEVATOR CANOPY  
NTS

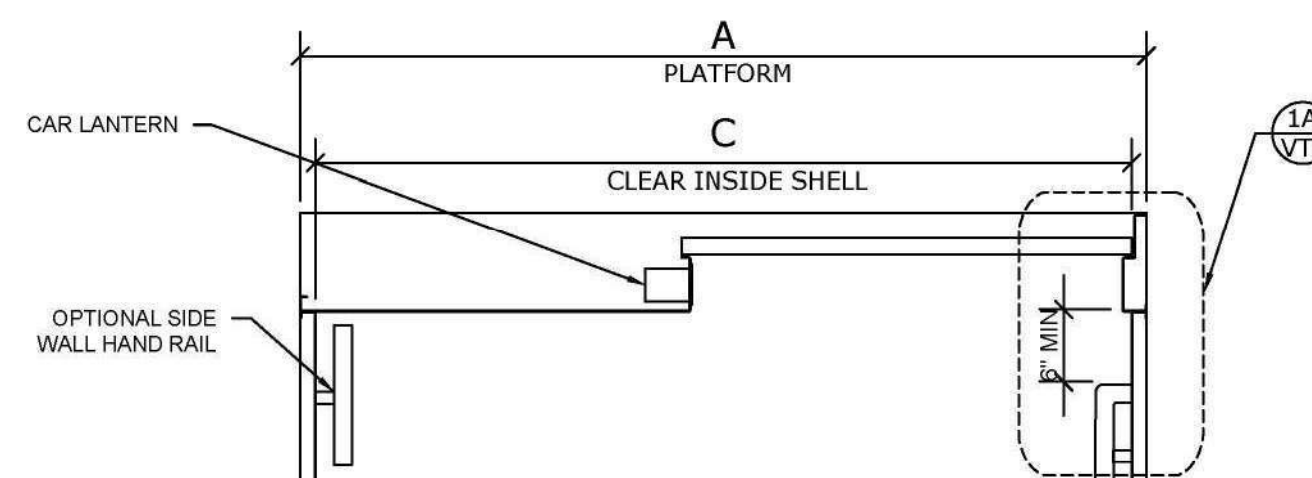
NOTES:

1. REAR RETURN FOR REVERSE ENTRANCE SIMILAR
2. LIGHT FIXTURE TO PROVIDE A MINIMUM OF 5 FOOT CANDLES AT CONTROL PANEL LANDING & THRESHOLD WHEN CAB LANDING DOORS ARE OPEN. (CBC SEC 11B-407.4.5)

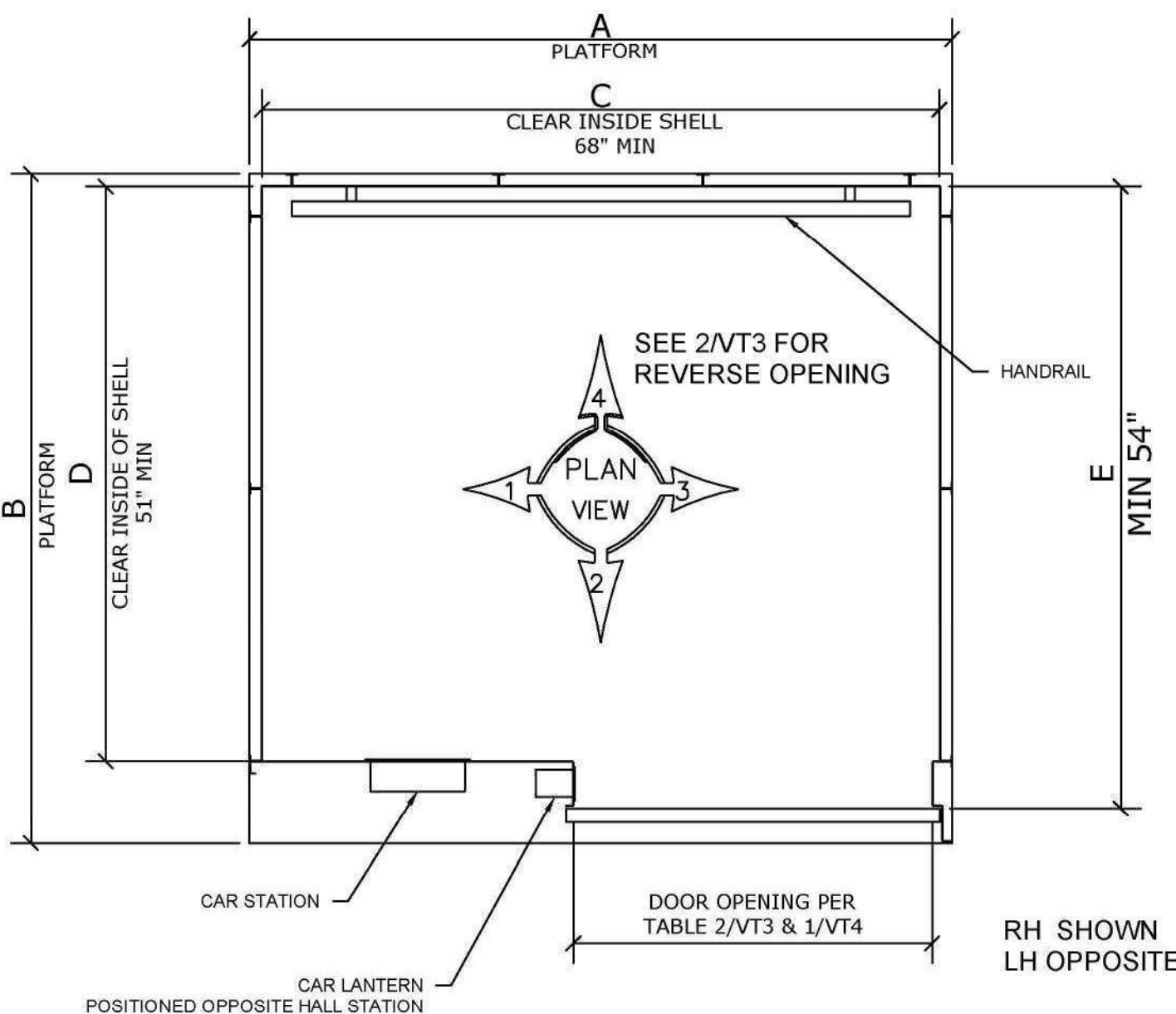


2 FRONT RETURN WALL  
NTS

TABLE 2 - ELEVATOR DIMENSIONS									
SELECT ONE	HW SIZE	ELEVATORS	PLATFORM		INSIDE CLEAR MIN.			MAX AREA	SINGLE SPEED SIDE SLIDE OPN AS PER CBC 3002.4 11B-407.3 MIN DIM
			A	B	C	D	E		
<input type="checkbox"/>	HW1	2000 R	5'-10 1/2"	5'-9"	5'-8"	4'-3 3/4"	4'-7 3/4"	24.9 sq ft	36"
<input type="checkbox"/>	HW1	2500	5'-10 1/2"	5'-8 3/4"	5'-8"	4'-10 1/4"	5'-2 3/4"	28.2 sq ft	36"
<input type="checkbox"/>	HW2	2500 R	5'-10 1/2"	5'-9"	6'-8"	4'-3 3/4"	4'-7 3/4"	29.3 sq ft	36"
<input type="checkbox"/>	HW2	3000	6'-10 1/2"	5'-8 3/4"	6'-8"	4'-10 1/4"	5'-2 3/4"	33.2 sq ft	42"
<input type="checkbox"/>	HW3	3000 GR	7'-5 1/2"	5'-9"	7'-3"	4'-3 3/4"	4'-7 3/4"	31.9 sq ft	42"
<input type="checkbox"/>	HW2	3500 G	6'-10 1/2"	6'-0"	6'-8"	5'-3"	5'-7 1/2"	35.0 sq ft	42"
<input type="checkbox"/>	HW3	3500 G	7'-5 1/2"	6'-0"	7'-3"	5'-3"	5'-7 1/2"	38.1 sq ft	42"
<input type="checkbox"/>	HW3	4000	8'-0"	6'-0"	7'-6"	5'-3"	5'-7 1/2"	44.3 sq ft	42"
<input type="checkbox"/>	HW3	4000 MAX	CUSTOM SIZE TO SUIT						44.3 sq ft



REVERSE OPENING



1 PLAN  
NTS

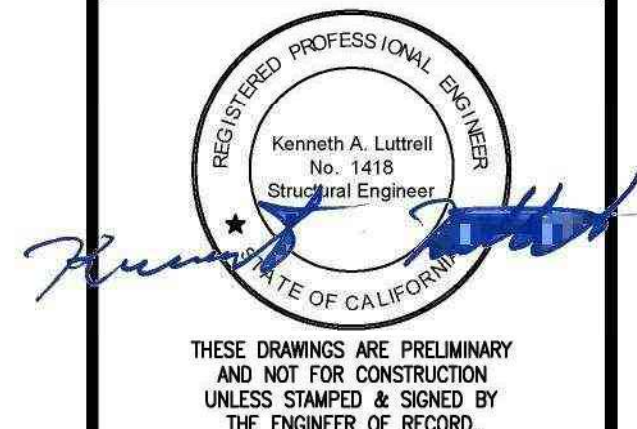
### MANUFACTURING NOTES

1. STRIKE JAM AND HEADER: STAINLESS STEEL
2. CAR DOORS: 16 GA GALVANNEAL, PRIMED FINISH OR STAINLESS STEEL
3. ENTRANCE COLUMN: 16 GA STAINLESS STEEL.
4. SIDE & REAR WALL PANELS: 16 GA GALVANNEAL WITH AN APPLIED PLASTIC LAMINATE ON THE INTERIOR, OR 16 GA STAINLESS STEEL.
5. CANOPY: 16 GA GALVANNEAL, REFLECTIVE WHITE FINISH ONLY REQUIRED ON THE INSIDE OF CAB, NO PRIME ON THE OUTSIDE
6. CEILING: T-BAR WITH CEILING PANELS
7. HANDRAIL: 1 1/2: ROUND HANDRAIL
8. CAR SILL: ALUMINUM WITH A NATURAL FINISH PER 7/VT3
9. VENTILATION: FAN AND VENT SLOTS IN THE BASE OF THE CAB.
10. CAR DOORS ARE PRE DRILLED FOR DOOR EQUIPMENT
11. LIGHTING: FLOURESCENT STRIP LIGHTS
12. ALL MATERIAL FOR CAR ENCLOSURES SHALL MEET THE REQUIREMENTS OF ASME A17.1, SECT. 204.2.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP. 04-118833 INC.  
REVIEWED FOR  
SS ☐ FLS ☐ ACS ☐  
DATE: 01.31.20

NO.	DATE	REVISION

S.E. PC APPROVAL



**M-M** INC.  
MODULAR  
ELEVATOR  
MANUFACTURING

MODULAR ELEVATOR  
MANUFACTURING, INC.  
P.O. BOX 3998  
CHATSORTH, CA. 91313  
800-755-9359

PRE-CHECK (PC) DOCUMENTS  
2016 CBC CODE  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

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PROJECT NO: 16093  
DATE: 10/19/2018  
ENGINEERED BY: KAL  
DRAWN BY: MTC

FILE NO. PC-MEM  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
APPL. 03-118291  
AC ☐ FLS ☐ EB ☐ MC/MK ☐  
DATE: 11/3/2018

PRE-CHECK (PC) DOCUMENT  
CODE 2016  
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

SHEET NAME:  
ELEVATOR CAB

SHEET NO:  
VT3



