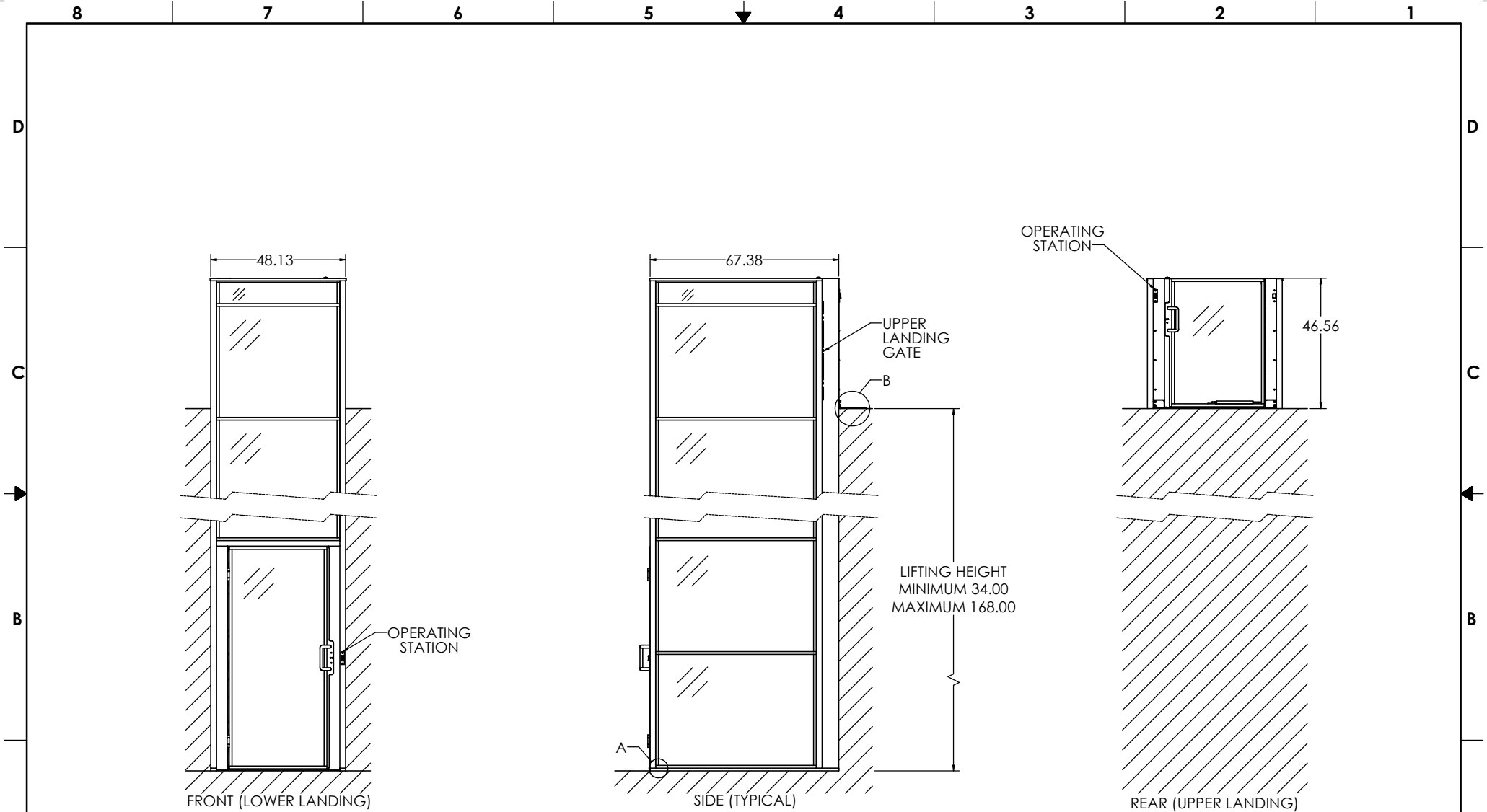
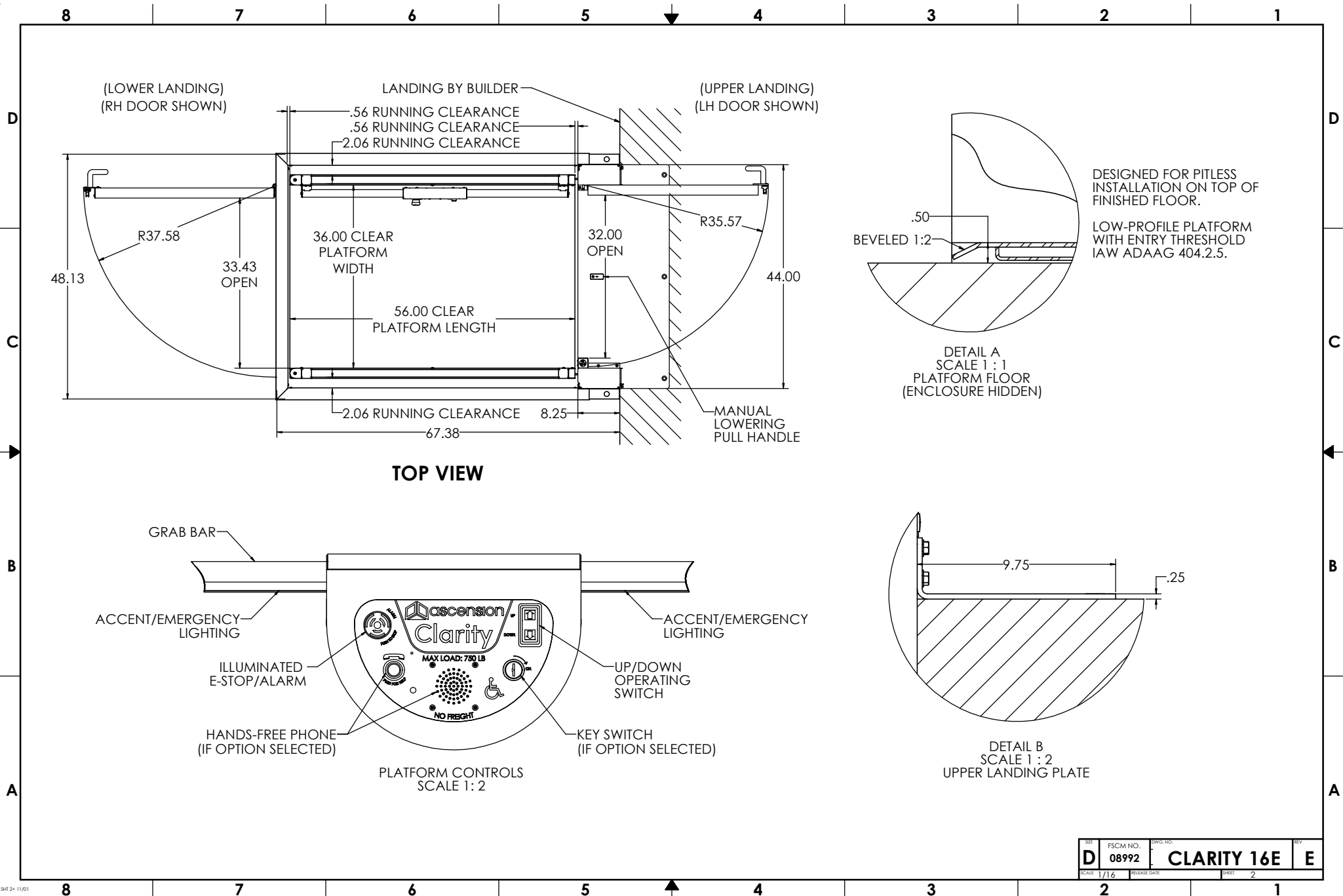


GENERIC DRAWING; CONTACT ASCENSION FOR PROJECT-SPECIFIC DRAWINGS
SEE OTHER CLARITY LIFT MODELS (16C, 16D, 16S, ETC.) FOR OTHER ENTRY/EXIT AND ENCLOSED/SHAFTWAY OPTIONS
SEE OPTIONS BROCHURE AND/OR SHEET 3 FOR VARIOUS CONFIGURATION OPTIONS



**ASCENSION CLARITY 16E VERTICAL PLATFORM WHEELCHAIR LIFT
FOR PERMANENT LIFT APPLICATIONS**

INTERPRET DIMENSIONS AND TOLERANCES (AW AND Y 14.5M-1994) UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE BY RICHES (MM) TOLERANCES DECIMALS XXX.X .25 XXX.X .13		DRAWN S. APPLEBY CHECK APPROVED By Philip Brobeck at 1:59 pm, Aug 05, 2024		DATE 8/5/2024	
DO NOT SCALE DRAWING		F.O. BOX 4000 TUCSON, ARIZONA 85717-0000		ascension®	
		CLARITY 16E ENCLOSED, STRAIGHT-THROUGH			
		FSCM NO. D 08992		DWG. NO. CLARITY 16E	
		SCALE 1/16		SHEET 1 OF 3	



REV	D	PSCM NO. 08992	DWG. NO.	CLARITY 16E	REV	E
SCALE	1/16	RELEASE DATE		SHEET	2	

CONFIGURATION

TOTAL TRAVEL	34" TO 168"
ENTRY/EXIT CONFIG.	STRAIGHT THROUGH
ENCLOSURE PROVIDED	FULL
DOVE & VENTILATION	YES/NO

LOWER LANDING	
DOOR TYPE	80" DOOR
HANDING	RH/LH
DOOR OPERATOR	YES/NO
CALL STATION TYPE	WALL/FRAME MOUNT
CALL STATION KEYED	YES/NO

UPPER LANDING	
DOOR TYPE	46.5" GATE/ 80" DOOR
HANDING	RH/LH
DOOR OPERATOR	YES/NO
CALL STATION TYPE	WALL/FRAME MOUNT
CALL STATION KEYED	YES/NO

PLATFORM	
KEY SWITCH	YES/NO
HANDS-FREE PHONE	YES/NO
PLATFORM LIGHTING	STANDARD
SLIP-RESISTANT FLOOR	STANDARD

OUTDOORS	YES/NO
HOLLOW LANDING	YES/NO
PIT SWITCH	STANDARD
MANUAL LOWERING	STANDARD
AUDIBLE ALARM	STANDARD
BATTERY BACKUP	STANDARD

SPECIFICATIONS

DESCRIPTION	ENCLOSED VERTICAL PLATFORM WHEELCHAIR LIFT
CODE COMPLIANCE	ASME A18.1, ASME A17.5, NFPA 70 (NEC), ANSI A117.1, ADASAD (ADAAG)
APPLIED VERSION	ASME A18.1-2023
MODEL	CLARITY 16E
RATED LOAD	750 LB
RATED SPEED	20 FT/MIN
DUTY CYCLE	168 CYCLE-FT/HR (12 CYCLES/HR MINIMUM)
PLATFORM SIZE	36" X 56"
POWER SUPPLY	27VDC, 500W (18.5A)
BATTERIES	12V, 35A-h AGM SLA (2X)
CONTROL SYS.	24VDC
MOTOR	24VDC, 3 HP
DRIVING MEANS	2:1 CHAIN-HYDRAULIC

PLUNGER (2X)	1.25" SOLID
CYL. I.D. (2X)	2.00"
CYL. O.D. (2X)	2.38"
STROKE (2X)	(VARIES)

WORKING PSI	400 PSI
RELIEF PSI	600 PSI (1.5 X WP)

CHAIN TYPE	4X ANSI #50 ROLLER CHAIN
CHAIN STRENGTH	5045 LBF EACH
SAFETIES	2X TYPE A

DOOR LOCKS	IDEC HS5L
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CONFIGURATION: FINISHES

LIFT COLOR (POWDER COAT)	☐ SILVER (STANDARD) ☐ BLACK ☐ CUSTOM: _____
HARDWARE COLOR	☐ SILVER (STANDARD) ☐ BLACK ☐ BRASS ☐ OIL RUBBED BRONZE
WINDOWS	☐ CLEAR PLEXIGLAS (STANDARD) ☐ TINTED PLEXIGLAS (30%) ☐ FROSTED PLEXIGLAS ☐ POWDER COATED STEEL
WINDOW ART	☐ NONE (STANDARD) ☐ CUSTOM LOGO/IMAGE

PROVISIONS BY OTHERS

GENERAL

HOISTWAY: HOISTWAY MUST BE SQUARE AND PLUMB WITHIN 1/4" TO ENSURE PROPER LIFT OPERATION. WHERE PROVIDED BY OTHERS, ENCLOSURE MUST BE DESIGNED AND BUILT IN ACCORDANCE WITH ASME A18.1 AND ALL APPLICABLE STATE AND LOCAL CODES.

REAR CABINET CLOSURE: VERTICAL SURFACE BEHIND MACHINE CABINET SHALL HAVE STRENGTH AND STIFFNESS EQUIVALENT TO 14GA (.08) SHEET STEEL. (PROVIDED BY ASCENSION IF OPTIONAL HOLLOW LANDING PACKAGE SELECTED).

DIMENSIONS: TOTAL TRAVEL HEIGHT MUST BE WITHIN $\pm 3/8"$ OF NOMINAL. VERIFY ALL DIMENSIONS AND IMMEDIATELY REPORT ANY DISCREPANCIES.

FLOOR: FLOOR BENEATH UNIT AND DOOR SWINGS MUST BE FLAT AND LEVEL WITHIN 1/8". OUTDOORS, DRAINAGE SHALL NOT FLOW THROUGH OR INTO UNIT.

PIT/RAMP: DO NOT PROVIDE PIT OR RAMP. LIFT DESIGNED WITH LOW-PROFILE PLATFORM FLOOR FOR DIRECT ENTRY IAW ADAAG 404.2.5.

OVERHEAD CLEARANCE: MUST COMPLY WITH ALL APPLICABLE CODES.

CONSTRUCTION COORDINATION: OWNER/AGENT RESPONSIBLE FOR ALL MASONRY, CARPENTRY, DRYWALL, PATCHING, AND FINISHING WORK NEEDED PRIOR TO AND FOLLOWING LIFT INSTALLATION.

STRUCTURAL: SUPPORTING STRUCTURE SHALL BE DESIGNED AND CONSTRUCTED TO SAFELY SUPPORT APPLIED LOADS IN ACCORDANCE WITH "CLARITY LOADING" DIAGRAM.

ELECTRICAL

GENERAL: ALL WIRING SHALL COMPLY WITH NFPA 70 (NEC).

POWER: 120VAC, 60HZ, 6A, 1PH CIRCUIT WITH DISCONNECT (SEE BELOW).

CONCEALED REAR ACCESS: CLEAR SPACE 7.25" X 7.50" (W X H) BEHIND LIFT AVAILABLE FOR WIRE ENTRY. SPACE CENTERED 10.88" RIGHT OF LIFT CENTERLINE AND NOMINALLY 6.88" ABOVE LOWER LANDING FLOOR.

SIDE ACCESS: TWO 1/2-14 NPSM THREADED HOLES ARE PROVIDED ON BOTH SIDES OF THE MACHINE CABINET. HOLES ARE NOMINALLY 2.25" AND 3.50" ABOVE LOWER FLOOR AND 1.00" FROM REAR VERTICAL WALL.

MAIN DISCONNECT SWITCH: OTHERS SHALL PROVIDE LOCKABLE FUSED DISCONNECT SWITCH IAW NFPA 70. SWITCH TO INCLUDE ADDITIONAL POLE OR CONTACT FOR DISCONNECTION OF CONTROLLER FROM 24V BACKUP SUPPLY.

LIGHTING: 54 LX MIN. AT PLATFORM AND LANDINGS.

ADDITIONAL AC CONNECTIONS: ADDITIONAL AC CONNECTIONS REQUIRED FOR: VENTILATION SYSTEM (IF EQUIPPED), 120VAC 1.3A 60HZ 1PH.

DOOR OPERATOR(S) (IF BY OTHERS), POWER REQ. PER MANUFACTURER

PHONE: STANDARD PHONE CABLE WITH RJ11 PLUG CONNECTOR REQUIRED FOR OPTIONAL (ANALOG) HANDS-FREE PHONE, WHERE PROVIDED.

REV	FSCM NO.	DWG. NO.	REV
D	08992	CLARITY 16E	E
SCALE	1/16"	SHEET	3

CLARITY LOADING - OPPOSING ENTRY & EXIT (16E, 16S)

(GENERIC APPLICATION DEPICTED; ENCLOSURE NOT SHOWN)

MACHINE CABINET ANCHORS

ANCHORING REQUIREMENT	ANCHOR LOCATION* (±.38) [IN]	# OF ANCHORS	TYPE (NEXT SHEETS)	APPLICABILITY
ANCHOR AT ONE OF TOP LOCATIONS.	UPPER F.F.	3	A	CONCRETE LANDING
	1" BELOW	6	B	WOOD LANDING
OPTIONAL (USE OF OPTIONAL ANCHORS RECOMMENDED FOR MAXIMUM RIGIDITY)	145.50	2	C	TRAVEL > 148.5"
	121.50			TRAVEL > 124.5"
	97.50			TRAVEL > 100.5"
	73.50			TRAVEL > 76.5"
	49.50			TRAVEL > 52.5"
	25.50			ALL LIFTS
ANCHOR AT ONE OF BOTTOM LOCATIONS	6.00	2	C	ALL LIFTS
	LOWER F.F.	2	D	H.L. PKG ONLY

ENCLOSURE ANCHORS (16E MODEL ONLY)

REQUIRED IF PRESENT	LOWER F.F.	2	F	16E ONLY
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* ACTUAL LOCATIONS OF WALL ANCHORS MAY VARY AS MUCH AS ±3/8" FROM VALUES GIVEN ABOVE. MOUNTING STRUCTURE MUST BE ABLE TO ACCOMMODATE THIS VARIABILITY.

MAX LOAD PER ANCHOR BY TRAVEL HEIGHT [LBF]**

		ANCHOR TYPE (SEE TABLE ABOVE)					MAX TOTAL HORIZONTAL LOAD [LBF]** (FORCE ON STRUCTURE)
		A	B	C	D	F	
TRAVEL	34.0 – 52.5	623	SPECIAL†	970	793	200	2050
	52.5 – 76.5	375	192	575	508	200	1275
	76.5 – 100.5	248	126	377	347	200	875
	100.5 – 124.5	185	93	280	263	200	700
	124.5 – 148.5	147	74	223	212	200	575
	148.5 – 168.0	123	62	185	178	200	500

** LOADS LISTED ASSUME STATIC LOADING AND DO NOT INCLUDE WIND, SEISMIC, OR SAFETY FACTOR.

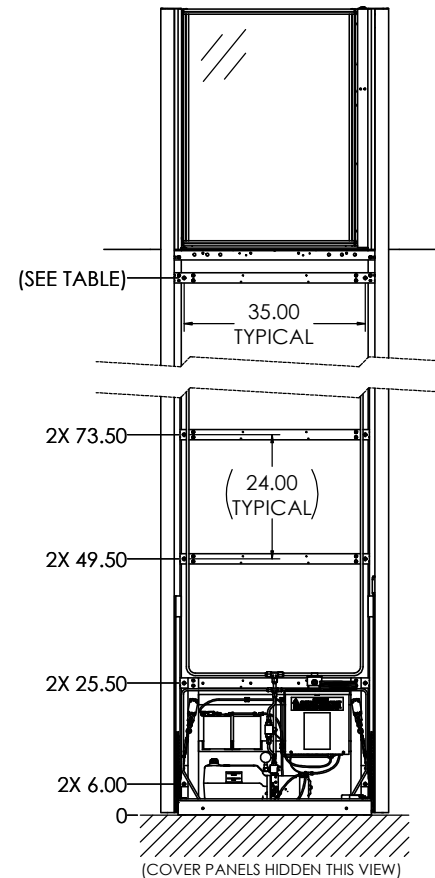
† WHEN USED, REQUIRES 6X TYPE B ANCHORS WITH 289 LBF MAX LOAD, 2X TYPE C ANCHORS AT 49.50 LOCATION WITH 189 LBF MAX LOAD, AND ANCHORING AT ONE OF THE BOTTOM LOCATIONS.

ADDITIONAL NOTES:

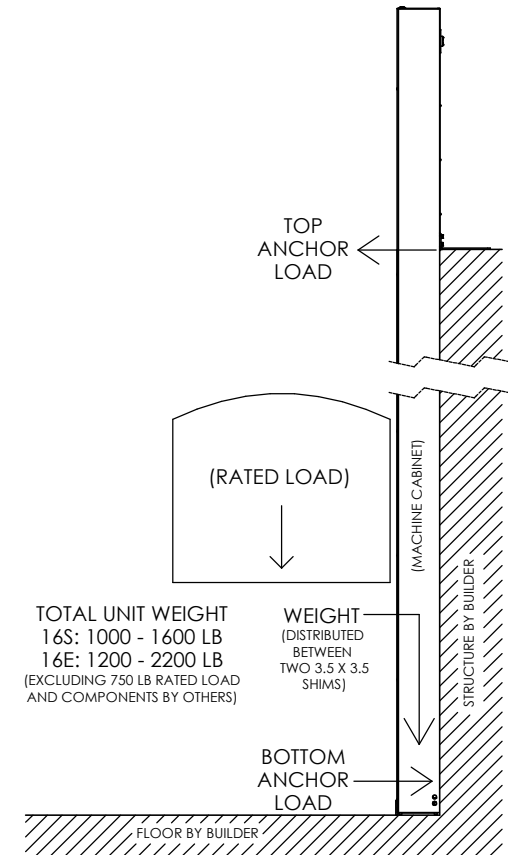
- ANCHORS PROVIDED BY ASCENSION FOR COMMON MOUNTING APPLICATIONS. PROJECT STRUCTURAL ENGINEER RESPONSIBLE FOR EVALUATING SITE-SPECIFIC STRUCTURAL CONSIDERATIONS AND FINAL ANCHOR SELECTION.

STAINLESS-STEEL CONCRETE ANCHORS PROVIDED FOR OUTDOOR APPLICATIONS.

FRONT VIEW ANCHOR LOCATIONS (TYPE C)



SIDE VIEW



TOTAL UNIT WEIGHT
16S: 1000 - 1600 LB
16E: 1200 - 2200 LB
(EXCLUDING 750 LB RATED LOAD
AND COMPONENTS BY OTHERS)

WEIGHT
(DISTRIBUTED
BETWEEN
TWO 3.5 X 3.5
SHIMS)

BOTTOM
ANCHOR
LOAD

FLOOR BY BUILDER

INTERPRET DIMENSIONS AND TOLERANCES (AW AND Y14.5M-1994) UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (MM) TOLERANCES DECIMALS XXX.X - .010 XXX.X - .010		DATE 7-20-26	SCALE 1/12	RELEASED 1 OF 3
C. WILLIS CHECKED APPROVED By S Appleby at 12:05 pm, Jul 21, 2026		FSCM NO. 08992		
DO NOT SCALE DRAWING		CLARITY LOADING STRAIGHT THROUGH		
CLARITY LOADING STRAIGHT THROUGH		CLARITY LOADING STRAIGHT THROUGH		

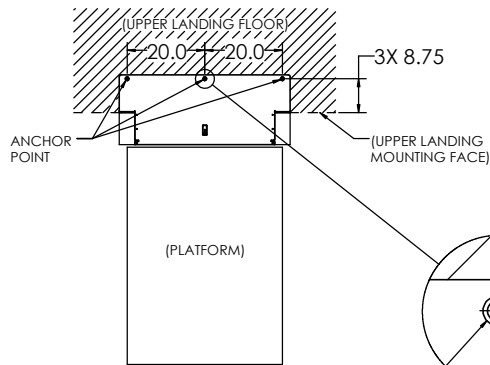
ANCHOR LOCATION TYPE: A

ANCHORS PROVIDED - FOR CONCRETE LANDINGS ONLY:

3X 1/2" X 2" DROP-IN CONCRETE ANCHORS, 1/2-13 INTERNAL THREAD
(EX: SIMPSON STRONG-TIE P/N DIAB50, DIA506SS, OR DIA50SS)

3X 1/2-13 X 1" FLAT HEAD SCREWS

(FILLERS FOR ANCHOR HOLES PROVIDED FOR WOOD LANDINGS)



C'SINK FOR 1/2" FASTENER
THROUGH 1/4" MATERIAL
(ANCHOR POINT)

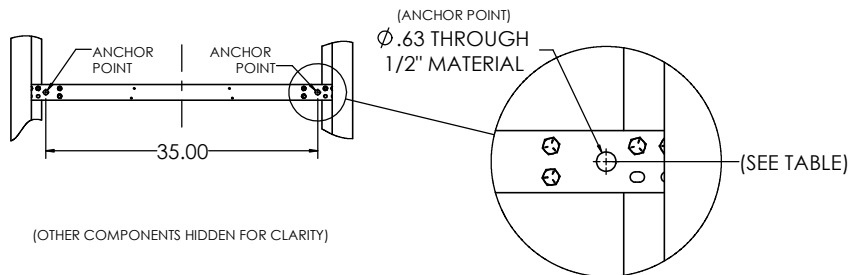
ANCHOR LOCATION TYPE: C

ANCHORS PROVIDED - FOR CONCRETE OR WOOD STRUCTURES:

2X (EACH) 1/2" X 4" CONCRETE ANCHORS

(EX: SIMPSON STRONG-TIE P/N THD50400H, THD50400H6SS, OR THD50400H4SS)

2X (EACH) 1/2" X 4" LAG SCREWS FOR WOOD (INDOOR ONLY)



(OTHER COMPONENTS HIDDEN FOR CLARITY)

ANCHOR LOCATION TYPE: D

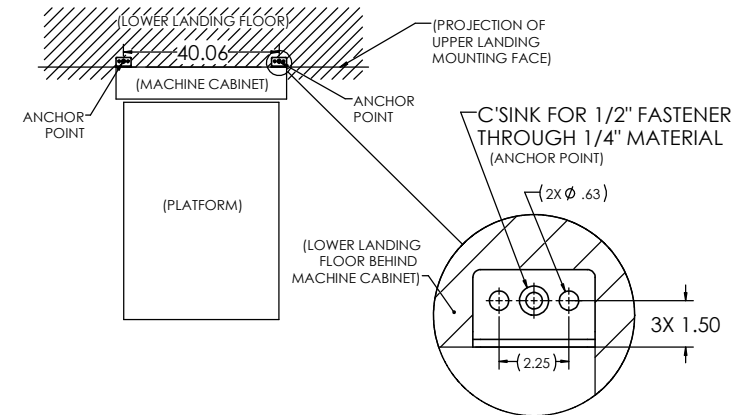
(HOLLOW LANDING PACKAGE [H.L. PKG] ONLY)

ANCHORS PROVIDED - FOR NORMAL-WEIGHT CONCRETE FLOOR ONLY:

2X 1/2" X 2" DROP-IN CONCRETE ANCHORS, 1/2-13 INTERNAL THREAD

(EX: SIMPSON STRONG-TIE P/N DIAB50, DIA506SS, OR DIA50SS)

2X 1/2-13 X 1" FLAT HEAD SCREWS



ANCHOR LOCATION TYPE: F

(CLARITY 16E ONLY)

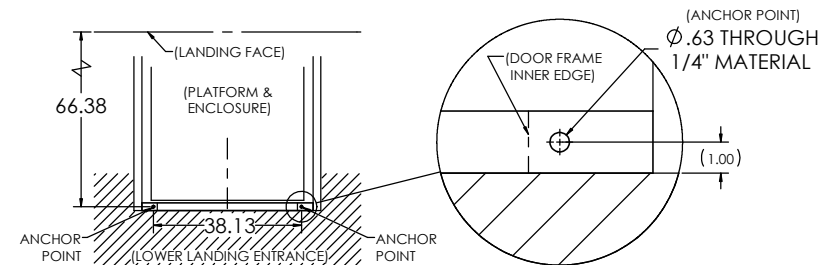
ANCHORS PROVIDED - FOR CONCRETE OR WOOD FLOOR:

2X 1/2" X 2" DROP-IN CONCRETE ANCHORS, 1/2-13 INTERNAL THREAD

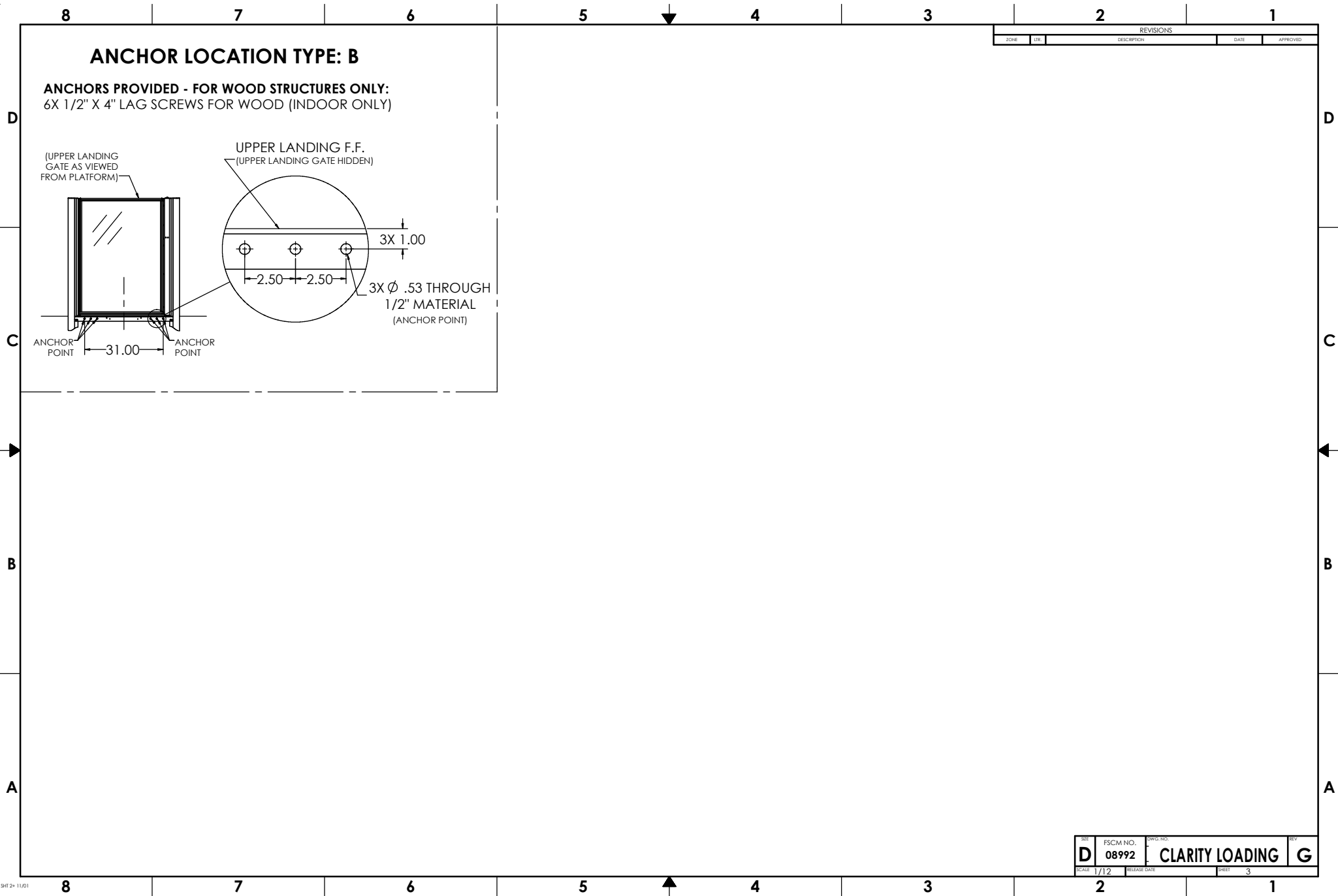
(EX: SIMPSON STRONG-TIE P/N DIAB50, DIA506SS, OR DIA50SS)

2X 1/2-13 X 1" SCREWS

2X 1/2" X 4" LAG SCREWS FOR WOOD (INDOOR ONLY)



REV	FSCM NO.	DWG. NO.	REV
D	08992	CLARITY LOADING	G
SCALE	1/12	RELEASE DATE	SHEET 2



REVISIONS			
ZONE	DATE	DESCRIPTION	APPROVED

SHEET	FSCM NO.	DWG. NO.	REV
D	08992	CLARITY LOADING	G
SCALE	1/12	RELEASE DATE	SHEET 3

1

REVISIONS				
ZONE	LTR.	DESCRIPTION	DATE	APPROVAL

- (GENERIC LIFT SHOWN. MIRROR GATE SWINGS AND CORRESPONDING DIMENSIONS AS NECESSARY)

-
- The diagram is a detailed architectural floor plan of a rectangular room labeled **CLARITY 16E** with dimensions **(48.13 x 67.38)**. The room is oriented horizontally. Key features and dimensions include:
- Overall Dimensions:** The total width of the room is 67.38 units, and the total depth is 48.13 units.
 - Entrances:**
 - LOWER LANDING ENTRY:** Located on the left side, featuring a door with a **MANUAL DOOR 60" CLEARANCE** and an **AUTOMATIC DOOR 42" CLEARANCE**. The clearance is marked with a **(-18)** offset.
 - UPPER LANDING ENTRY:** Located on the right side, featuring a door with a **MANUAL DOOR 60" CLEARANCE** and an **AUTOMATIC DOOR 42" CLEARANCE**. The clearance is marked with a **(-18)** offset.
 - Clearances:**
 - MANUAL DOOR 54" CLEARANCE:** Indicated at the top and bottom of the room with a **(+6)** offset.
 - MANUAL DOOR 60" CLEARANCE:** Indicated on the left and right sides of the room.
 - AUTOMATIC DOOR 42" CLEARANCE:** Indicated for the swinging doors on the left and right.
 - Other Labels:**
 - LANDING FACE:** A vertical line on the right side of the room.
 - 49.00 MIN CLEAR WIDTH (RECOMMENDED):** A dimension line at the bottom of the room.
 - 61.81:** A vertical dimension on the far left.
 - 59.76:** A vertical dimension on the far right.
 - 127.38:** A horizontal dimension at the bottom, spanning the width of the room and the landing face.
 - 60.00:** A horizontal dimension at the bottom, spanning the width of the landing face.

- A

[illegible]