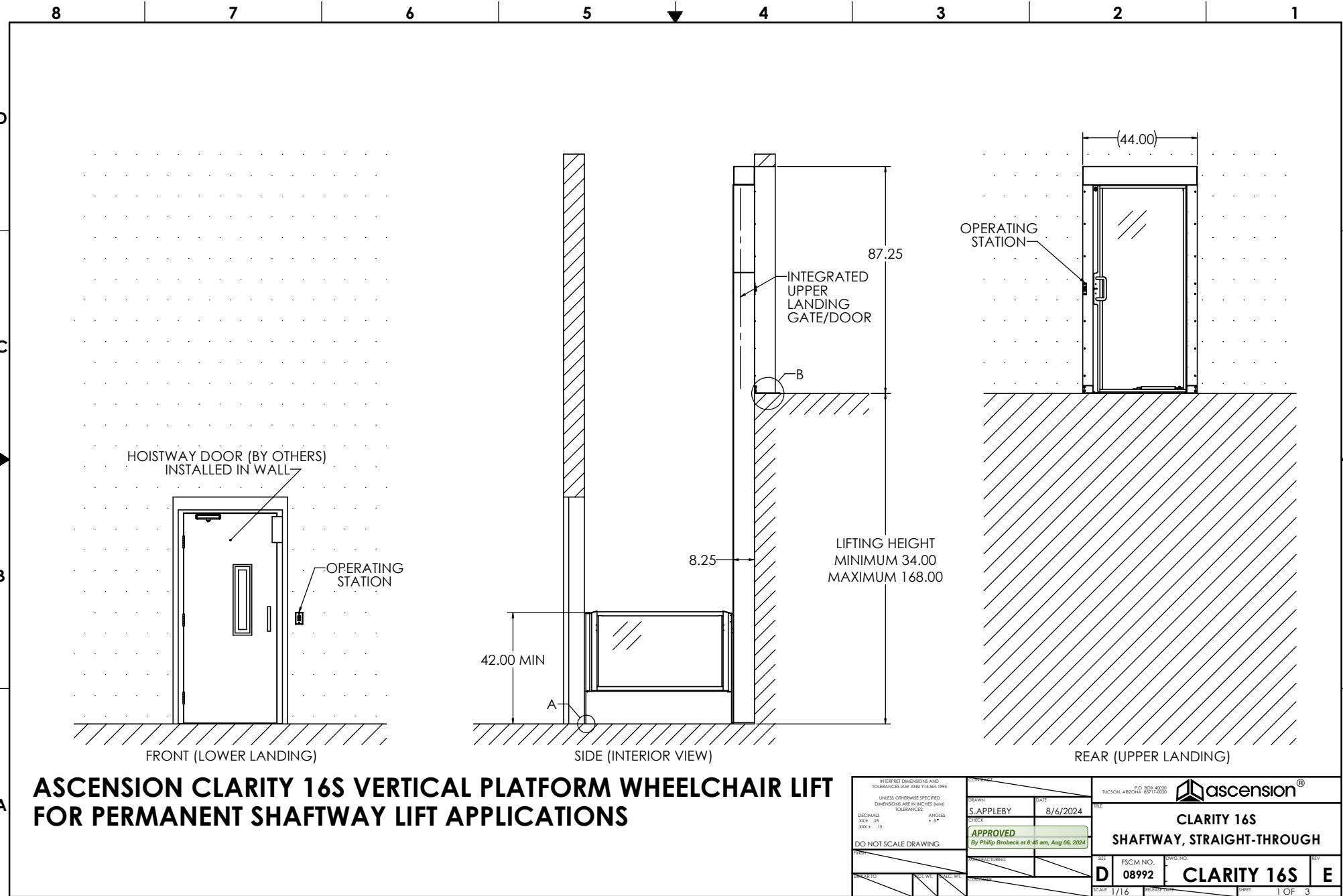


GENERIC DRAWING; CONTACT ASCENSION FOR PROJECT-SPECIFIC DRAWINGS

SEE OTHER CLARITY LIFT MODELS (16C, 16D, 16E, ETC.) FOR OTHER ENTRY/EXIT AND ENCLOSED/SHAFTWAY OPTIONS

SEE OPTIONS BROCHURE AND/OR SHEET 3 FOR VARIOUS CONFIGURATION OPTIONS



8 7 6 5 4 3 2 1

(LOWER LANDING)
(RH DOOR SHOWN)

64.81 TO PLATFORM EDGE
(65.25-65.63) SHAFT FINISHED LENGTH

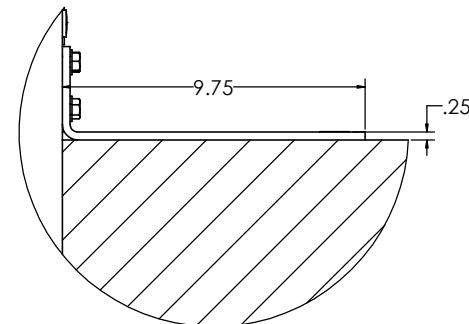
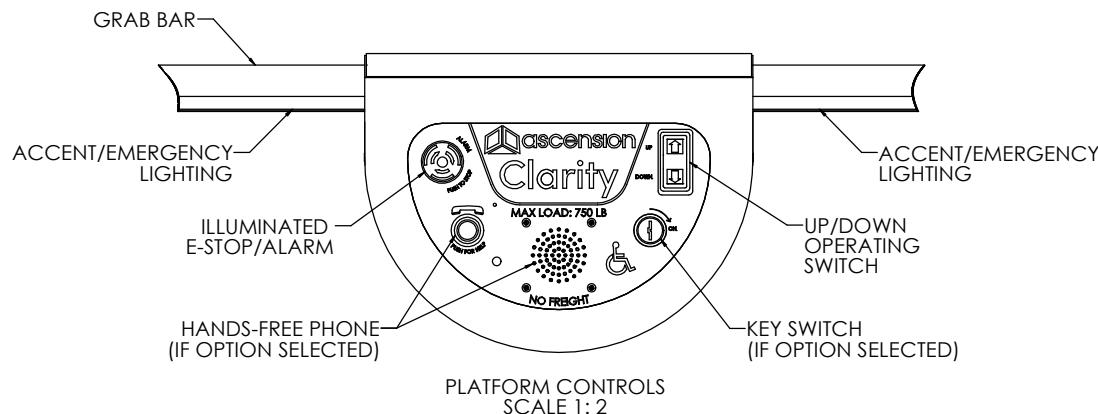
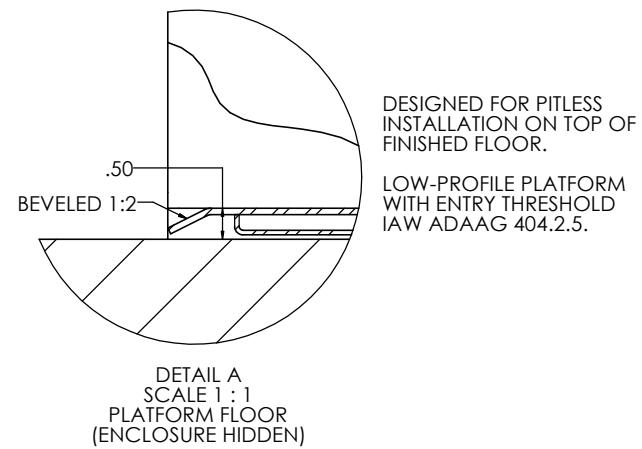
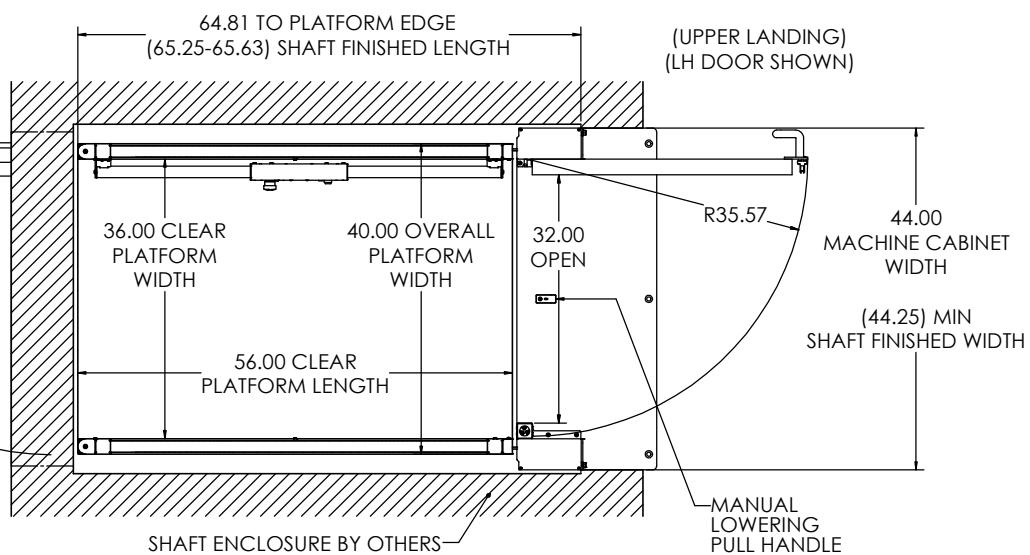
(UPPER LANDING)
(LH DOOR SHOWN)

D D

C C

B B

A A



SIZE D FSCM NO. 08992 DWG. NO. CLARITY 16S REV E

SCALE 1/16 RELEASE DATE SHEET 2 1

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CONFIGURATION

TOTAL TRAVEL	34" TO 168"
ENTRY/EXIT CONFIG.	STRAIGHT THROUGH
ENCLOSURE PROVIDED	NONE (BY OTHERS)
LOWER LANDING	
DOOR TYPE	HOISTWAY DOOR (BY OTHERS)
HANDING	RH/LH
DOOR OPERATOR	YES/NO
CALL STATION TYPE	WALL 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	
PIT SWITCH	STANDARD
MANUAL LOWERING	STANDARD
AUDIBLE ALARM	STANDARD
BATTERY BACKUP	STANDARD

SPECIFICATIONS

DESCRIPTION	SHAFTWAY 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 16S
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

CONFIGURATION: FINISHES

LIFT COLOR (POWDER COAT)	<input type="checkbox"/> SILVER (STANDARD) <input type="checkbox"/> BLACK <input type="checkbox"/> CUSTOM: _____
HARDWARE COLOR	<input type="checkbox"/> SILVER (STANDARD) <input type="checkbox"/> BLACK <input type="checkbox"/> BRASS <input type="checkbox"/> OIL RUBBED BRONZE
WINDOWS	<input type="checkbox"/> CLEAR PLEXIGLAS (STANDARD) <input type="checkbox"/> TINTED PLEXIGLAS (30%) <input type="checkbox"/> FROSTED PLEXIGLAS <input type="checkbox"/> POWDER COATED STEEL
PLATFORM WINDOWS	<input checked="" type="checkbox"/> CLEAR LAMINATED GLASS (STANDARD)
WINDOW ART	<input type="checkbox"/> NONE (STANDARD) <input type="checkbox"/> CUSTOM LOGO/IMAGE

PROVISIONS BY OTHERS

GENERAL

HOISTWAY: HOISTWAY MUST BE SQUARE AND PLUMB WITHIN 1/4" TO ENSURE PROPER LIFT OPERATION. SHAFT DIMENSIONS PROVIDED FOR REFERENCE ONLY. HOISTWAY MUST MEET ASME A18.1 AND ALL APPLICABLE STATE AND LOCAL CODES. HOISTWAY IS TO BE PROVIDED BY OTHERS.

DOORS: INSTALLATION OF DOORS TO MEET ALL APPLICABLE CODES. HOISTWAY DOORS TO BE PROVIDED BY OTHERS (SEE ATTACHED FOR RECOMMENDATION).

REAR CABINET CLOSURE: VERTICAL SURFACE BEHIND MACHINE CABINET SHALL HAVE STRENGTH AND STIFFNESS EQUIVALENT TO 14GA (.08) SHEET STEEL.

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.

SIZE FSCM NO. DWG. NO.
D 08992 CLARITY 16S E
SCALE 1/16 RELEASE DATE SHEET 3
1

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

(GENERIC APPLICATION DEPICTED; ENCLOSURE NOT SHOWN)

D

MACHINE CABINET ANCHORS				
ANCHORING REQUIREMENT	ANCHOR LOCATION* ($\pm .38$ [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

* ACTUAL LOCATIONS OF WALL ANCHORS MAY VARY AS MUCH AS $\pm 3/8$ INCH FROM VALUES GIVEN ABOVE. MOUNTING STRUCTURE MUST BE ABLE TO ACCOMODATE THIS VARIABILITY.

TRAVEL	MAX LOAD PER ANCHOR BY TRAVEL HEIGHT [LBF]**					MAX TOTAL HORIZONTAL LOAD [LBF]** (FORCE ON STRUCTURE)
	ANCHOR TYPE (SEE TABLE ABOVE)					
	A	B	C	D	F	
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.

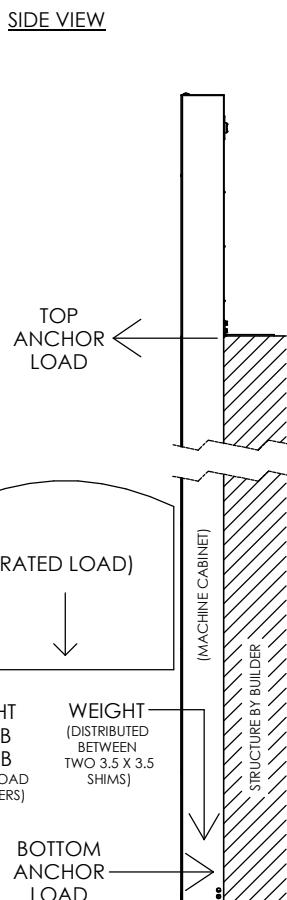
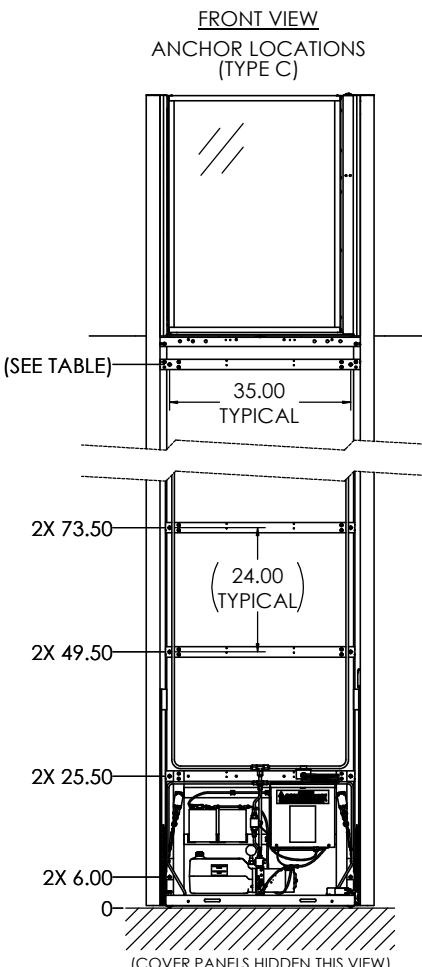
[†] WHEN USED, REQUIRES 6X TYPE B ANCHORS WITH 289 LBF MAX LOAD, 2X TYPE C ANCHORS AT 49.50 LOCATION WITH 189 LBF MAX LOAD, AND ANCHORING AT ONE OF THE BOTTOM LOCATIONS.

ADDITIONAL NOTES:

- ANCHORS PROVIDED BY ASCENSION FOR COMMON MOUNTING APPLICATIONS.

(SEE NEXT SHEETS FOR DETAILS).

STAINLESS-STEEL CONCRETE ANCHORS PROVIDED FOR OUTDOOR APPLICATIONS.



INTERPRET DIMENSIONS AND TOLERANCES AS IN ASME Y14.5M-1994 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (MM) TOLERANCES: $\pm .015$ $\pm .010$ $\pm .005$		DRAWN BY: S.APPLEBY	DATE: 11-12-24	REV: B
CHECKED BY: APPROVED By Philip Brobeck at 10:46 am, Nov 13, 2024		DESIGNER: D	CONTRACTOR: D	ASPECT: D
MANUFACTURED BY: D		MANUFACTURER: D	CONTRACTOR: D	ASPECT: D
SIZE: D	FS/CM NO.: 08992	DWG. NO.: D	REV: F	CLARITY LOADING STRAIGHT THROUGH
SCALE: 1/12	RELEASE DATE: 12/12/2024	SHEET: 1 OF 3		FILE: \Solidworks01\Ascension\CLARITY LOADING.SLDDRW

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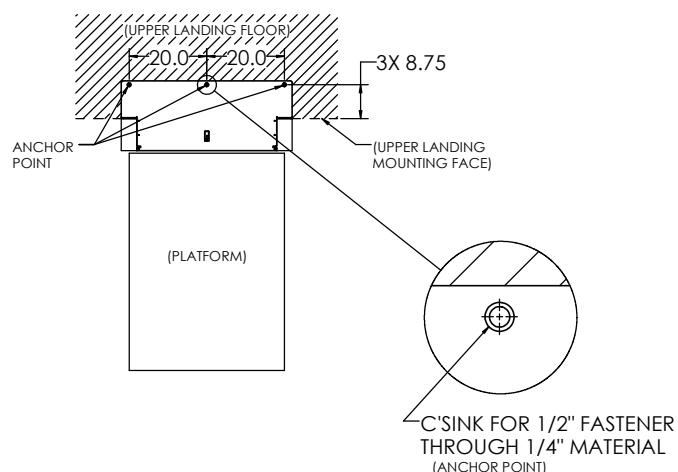
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ANCHOR LOCATION TYPE: A

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)

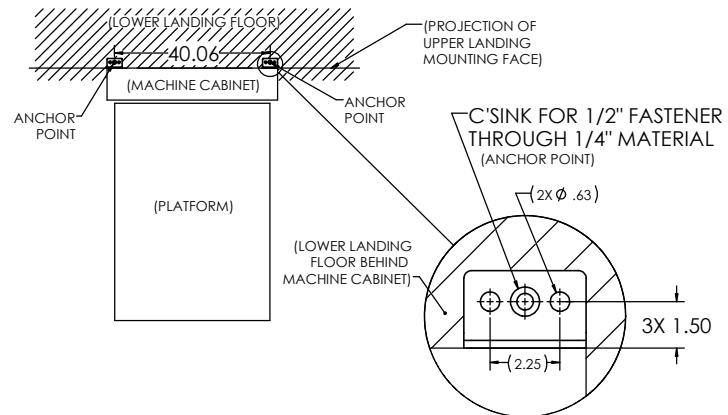


ANCHOR LOCATION TYPE: D

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

ANCHORS PROVIDED - FOR NORMAL-WEIGHT CONCRETE FLOOR ONLY:

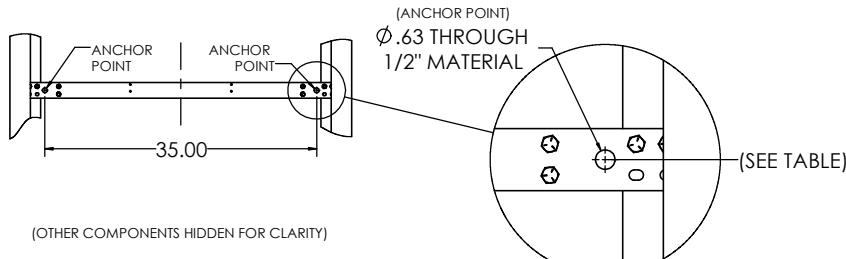
2X 1/2" X 2" DROP-IN CONCRETE ANCHORS, 1/2-13 INTERNAL THREAD
(EX: SIMPSON STRONG-TIE P/N DIAB50, DIA506SS, OR DIA50SS)
2X 1/2-13 X 1" FLAT HEAD SCREWS



ANCHOR LOCATION TYPE: 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)



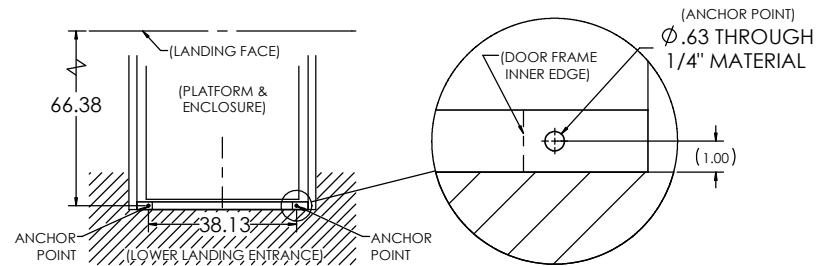
ANCHOR LOCATION TYPE: F

(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)



SIZE	FSCM NO.	DWG. NO.
D	08992	CLARITY LOADING

SCALE 1/12 RELEASE DATE SHEET 2 REV F

4

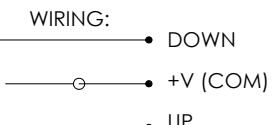
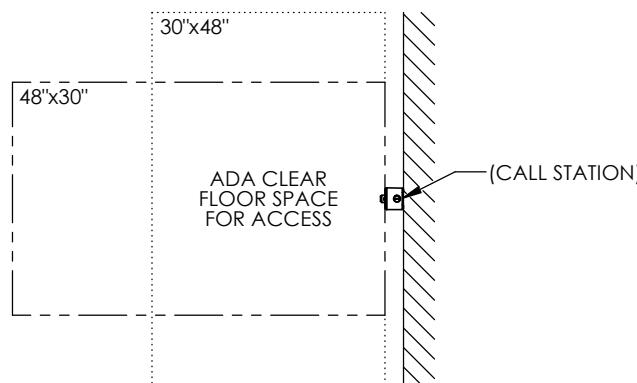
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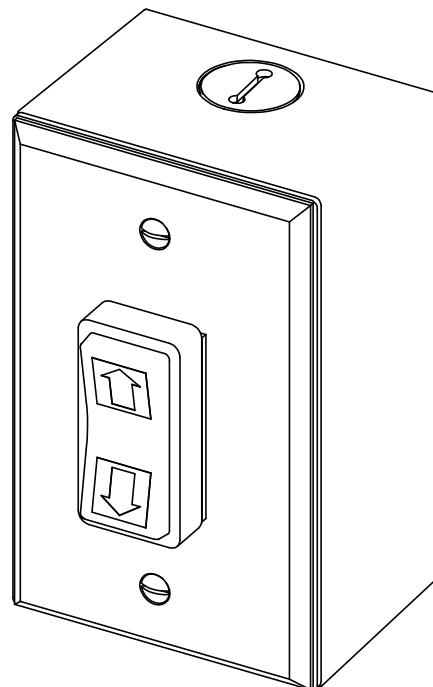
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NOTES UNLESS OTHERWISE SPECIFIED:

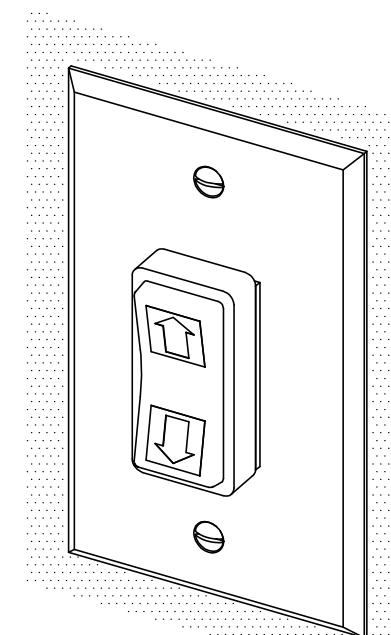
1. DESCRIPTION: REMOTELY LOCATED CALL STATION FOR ASCENSION VERTICAL PLATFORM WHEELCHAIR LIFT. SUITABLE FOR SURFACE OR FLUSH WALL MOUNT.
2. CHARACTERISTICS:
 - 2.1 COVER PLATE: STANDARD SIZE WALL PLATE (4.5" X 2.75"), BRUSHED STAINLESS STEEL.
 - 2.2 SWITCH: 3 POSITION ROCKER, REQUIRES CONSTANT PRESSURE TO ACTUATE.
 - 2.3 MOUNTING BOX: SURFACE MOUNT SINGLE GANG BOX 2.00" DEEP, OR PREINSTALLED FLUSH MOUNT SINGLE GANG BOX.
 - 2.4 WEATHER RATING: SUITABLE FOR OUTDOOR USE.
3. ADA REQUIREMENTS:
 - 3.1 MOUNT BETWEEN 15" AND 48" ABOVE FLOOR. IAW ADAAG 308.2 OR 308.3
 - 3.2 PROVIDE 30"x48" OR 48"x30" CLEAR FLOOR SPACE FOR ACCESSING CALL STATION. IAW ADAAG 309.2 & 305

NOTE: CLEAR FLOOR SPACE MUST BE OUTSIDE SWING OF AUTOMATIC DOORS AND GATES.

(3) 1/4" QUICK-DISCONNECT TERMINALS (PROVIDED)



OR



SURFACE MOUNT

FLUSH MOUNT

(PLATE COMPATIBLE WITH PREINSTALLED 1-GANG BOX)

INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M-1994 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [MM]		CONTRACT NO.	
DECIMALS: XX ± N/A XXX ± N/A		TOLERANCES: ANGLES ± N/A	
DRAWN S.APPLEBY		DATE 12-4-24	
CHECK		APPROVED By CWillis at 10:06 am, Dec 05, 2024	
DO NOT SCALE DRAWING		MANUFACTURING	
FINISH		CUSTOMER	
SIMILAR TO	ACT. WT.	CALC. WT.	
FSCM NO. B 08992 DWG. NO. 115712			
SCALE 1/1		RELEASE DATE	
FILE \Solidworks01\Ascension\115712_SALES.SLDDRW			

P.O. BOX 40020
TUCSON, ARIZONA 85717-0020

**OPERATING STATION (CALL BOX)
WALL MOUNTED**

115712

E

1 OF 1

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1. DESCRIPTION:

SPECIFICATIONS FOR WALL-MOUNT DOORS AND INTERLOCKS TO BE USED WITH ASCENSION WHEELCHAIR LIFTS (16S, 16C, & CERTAIN 5442F SERIES LIFTS).

2. CODE REQUIREMENTS:

DOOR AND INTERLOCK TO COMPLY WITH ALL APPLICABLE CODES AND REQUIREMENTS, INCLUDING ASME A18.1.

GENERAL REQUIREMENTS FOR REFERENCE ONLY:

- DOOR MUST BE SELF-CLOSING
- INSIDE OF DOOR MUST FORM SMOOTH, UNPERFORATED SURFACE FLUSH WITH SURROUNDING FACES OF ENCLOSURE/HOISTWAY
- DOOR AND INTERLOCK MUST WITHSTAND A 125 LBF APPLIED FORCE
- DOOR MUST BE FIRE-RATED (IF APPLICABLE)

3. INTERLOCK SPECIFICATIONS:

MECHANICAL INTERLOCK TO INCLUDE TWO (2) PARALLEL (SEPARATE) CONTACTS FOR LIFT'S DOOR CLOSED AND DOOR LOCKED SIGNAL CIRCUITS. CONTACTS TO BE CLOSED WHEN DOOR SHUT AND LOCKED.

INTERLOCK TO BE FAIL-SECURE, 24VDC, 0.5A MAX CURRENT DRAW.

(1.0A MAX CURRENT DRAW FOR PROTÉGÉ 5442F SERIES)

INTERLOCK TO BE CERTIFIED TO ASME A18.1, ASME A17.1, CSA B44, OR CSA B355.

RECOMMENDED INTERLOCK MODELS:

- IDEC HS5L (HS5L-XD44M-G OR SIMILAR)
 - AVAILABLE FROM ASCENSION
- ATLAS ATLOCK (ATLOCK-LP5 (LH), ATLOCK-RP5 (RH), OR SIMILAR)

4. RECOMMENDED HOISTWAY DOOR MANUFACTURER & MODEL:

BELCO DOORS

P/N: COM-316

STANDARD FEATURES:

- 1.5 HOUR FIRE RATING
- VISION PANEL
- PRIMED AND READY FOR PAINT

OPTIONS:

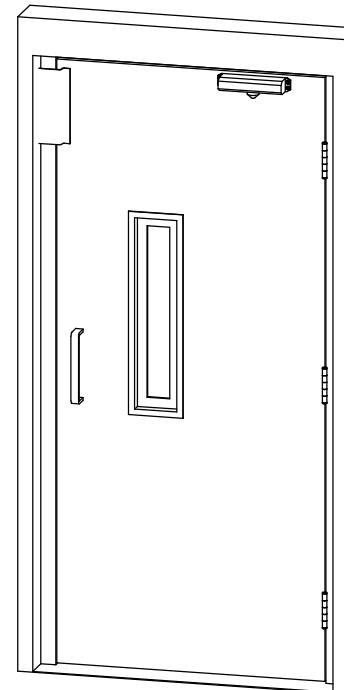
- "RH" OR "LH" HANDING
- CONCEALED POWER DOOR OPERATOR (PDO)
- OUTDOOR WEATHER PACKAGE

FIRE-RATED WOODEN DOOR OPTIONS AVAILABLE; CONTACT BELCO DOORS FOR MORE DETAILS.

WALL-MOUNT DOOR SPECIFICATIONS

FOR DOORS TO BE USED WITH ASCENSION LIFTS

(RECOMMENDED DOOR MODEL **OPTIONALLY** PROVIDED WITH LIFT; SEE QUOTE)



DOOR APPEARANCE FOR REFERENCE ONLY
("LH" HANDING SHOWN)

INTERPRET DIMENSIONS AND TOLERANCES AS IN ASME Y14.5M-1994 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (MM) TOLERANCES: ±0.125 (±3.2)		DRAWN BY: S.APPLEBY	DATE: 12-30-25	REVISION: B
DO NOT SCALE DRAWING		APPROVED By CWillis at 12:45 pm, Jan 06, 2026		
SCALE: 1/8		SIZE: FSCM NO.: 08992	DWG. NO.: 16S DOOR	REV: C
RELEASE DATE: 1/31/2027		SHEET 1 OF 1		

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

BELCO DOORS COM-316 ORDER FORM

