DHPACE
Everything Doors Since 1926

Submittal Package Detail

Lee's Summit Police Department

Automatic Entrance Equipment

Customer: City of Lee's Summit

Product: Auto Operators and Sliding Doors

Manufacturer: Assa Abloy

Project Location: Lee's Summit, MO

DH Pace Contact:
Jimmy Jones - Sales

Phone: (816) 918-8499

Email:
Jimmy.Jones@dhpace.com

Index

Opening: Training Exterior
(2) Wireless Wave Plates
(1) Bollard for exterior
Clear Anodized Finish

Doors to operate independently from each other; One for ingress and one for egress.

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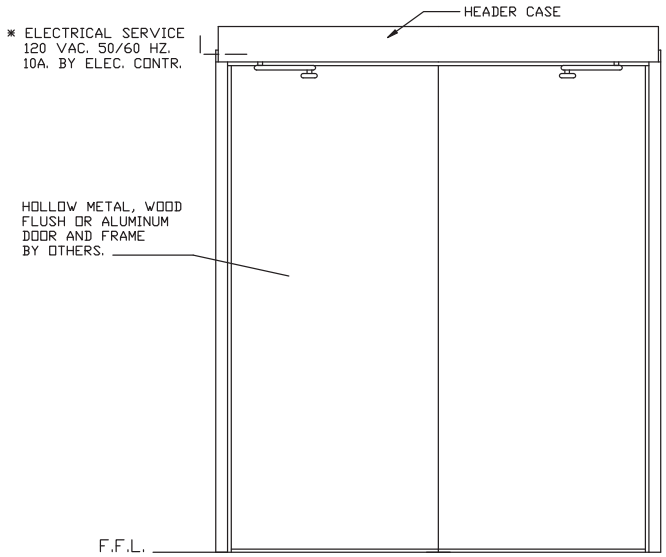
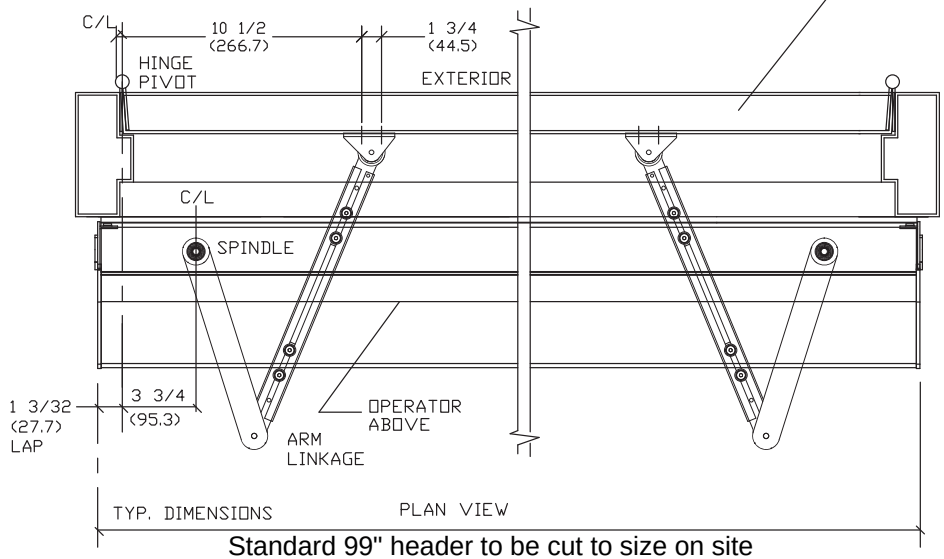
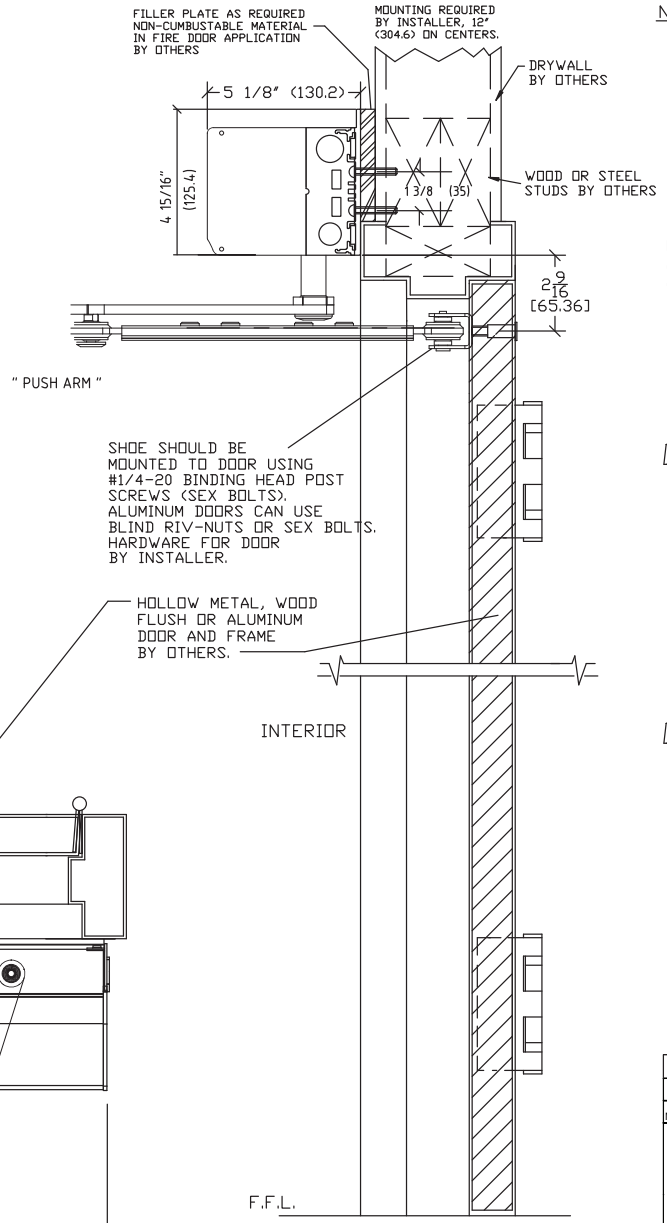


INTERIOR ELEVATION



Standard 99" header to be cut to size on site

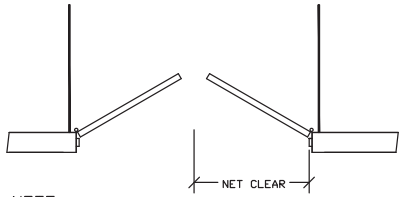


NOTE:

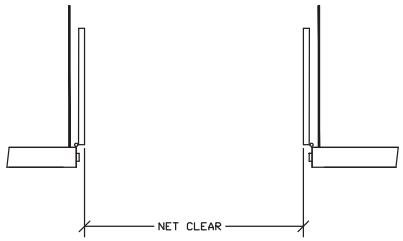
SW200i IS DESIGNED FOR HIGH PERFORMANCE, HEAVY USAGE PEDESTRIAN APPLICATIONS THAT COMPLY WITH ANSI A156.10. THE OPERATOR CAN ALSO BE ADJUSTED FOR LOWER MANUAL PUSH FORCES TO COMPLY WITH ANSI 156.19 AND FIRE DOOR REGULATIONS.

FINISH:
CLEAR - AA-C23-A31.

NOTE: DRAWING IS DIMENSIONED IN BOTH ENGLISH AND METRIC. REF. AS FAOLOWS: 1: (25.4). ALL METRIC SIZES ARE IN MILLIMETERS.



NOTE: *
NET CLEAR (EGRESS MIN 32" (812.8)) SINGLE DOOR



NOTE: *
SINGLE DOOR WIDTH NOT LESS THAN 30".

ENCROACHMENT OF 4" INTO NET CLEAR BY PANIC HARDWARE IS PERMITTED ABOVE 34".

Customer Name: City of Lee's Summit
Job Name: Lee's Summit Police Department

DRN BY	DATE
Mike Morrison	04/06/2021

Jimmy Jones, AAADM, Fire Check Certified
Sales
DH Pace Entry Door Systems Group

Office: (816) 221-0072
Mobile: (816) 918-8499
Email: Jimmy.Jones@dhpace.com

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ASSA ABLOY
ASSA ABLOY Entrance Systems
1900 Airport Road
Monroe, NC 28110
Phone: 1-866-237-2687
specdesk.na.besam@assaabloy.com

BESAM SW200i
SURFACE APPLIED DUAL
SWING DOOR OPERATOR
" PUSH APPLICATION "

Opening: Training Interior
(2) Wireless Wave Plates
Clear Anodized Finish

Doors to operate independently from each other; One for ingress and one for egress.

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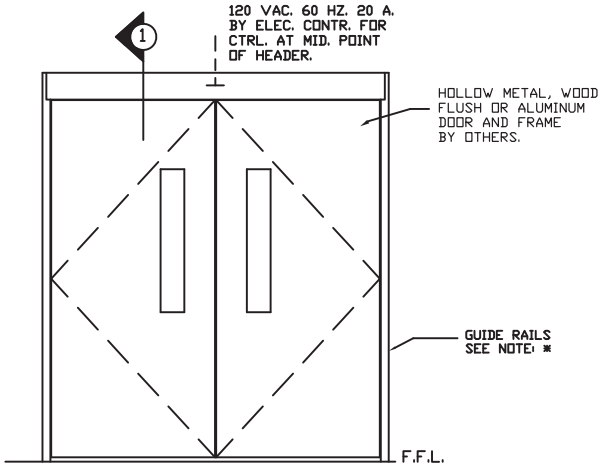
Everything Doors Since 1926

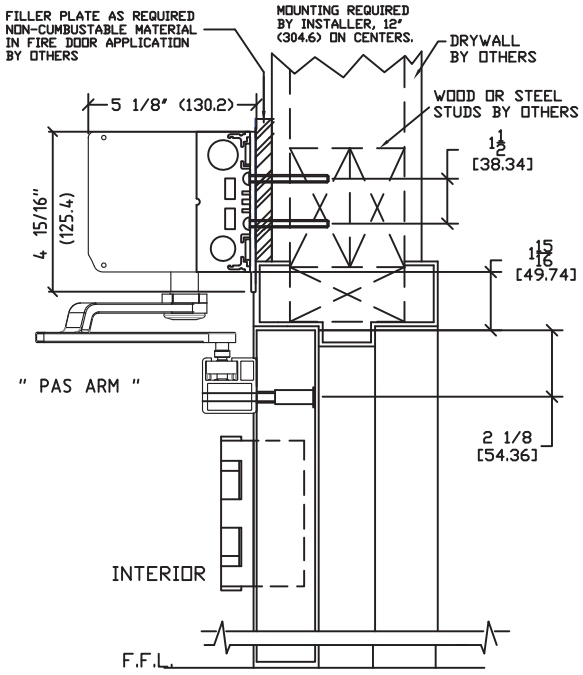
NOTE:
PACKAGE INCLUDES AUTOMATIC OPERATOR, CONTROLLER, SLIDE, PAS ARM

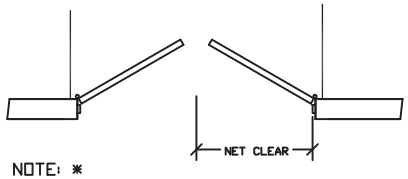
SW200i IS DESIGNED FOR HIGH PERFORMANCE, HEAVY USAGE PEDESTRIAN APPLICATIONS THAT COMPLY WITH ANSI A156.10. THE OPERATOR CAN ALSO BE ADJUSTED FOR LOWER MANUAL PUSH FORCES TO COMPLY WITH ANSI 156.19 AND FIRE DOOR REGULATIONS.

FINISH:
CLEAR - AA-M12C22A41, CLASS 1, .018 MM



INTERIOR ELEVATION
SW200i SA (DUAL)





NOTE: *
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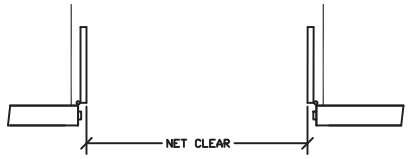

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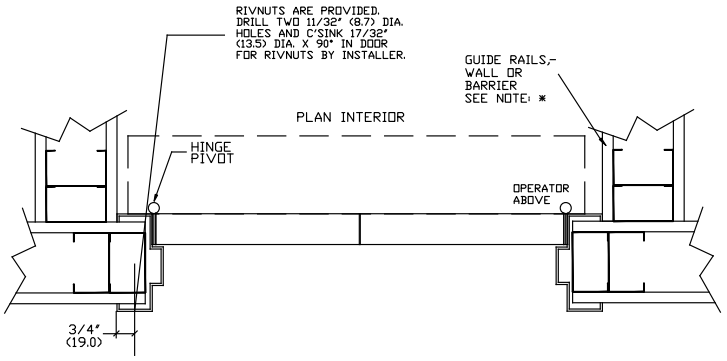

ENCROACHMENT OF 4" INTO NET CLEAR BY PANIC HARDWARE IS PERMITTED ABOVE 34".

* GUIDE RAILS (SHOWN) ARE REQUIRED ON THE SWINGPATH SIDE OF POWER OPERATED PEDESTRIAN DOORS (ANSI 156.10) BUT NOT ON LOW ENERGY POWER OPERATED DOORS (ANSI 156.19).

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Job Name: Lee's Summit Police Department

DRN BY	DATE				
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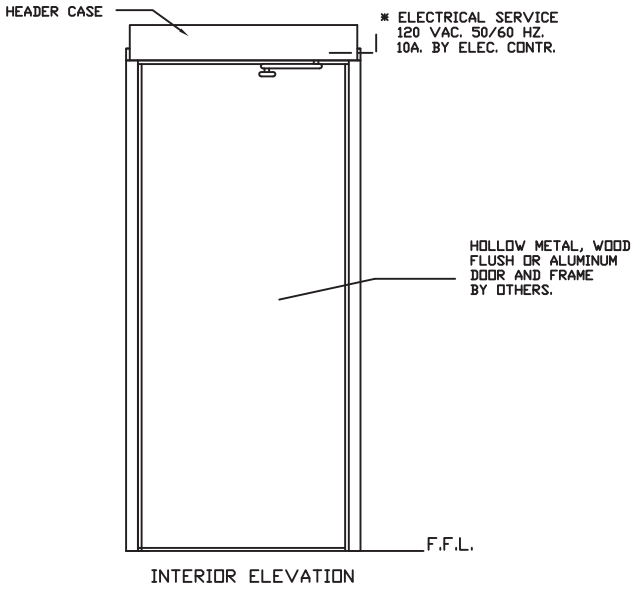
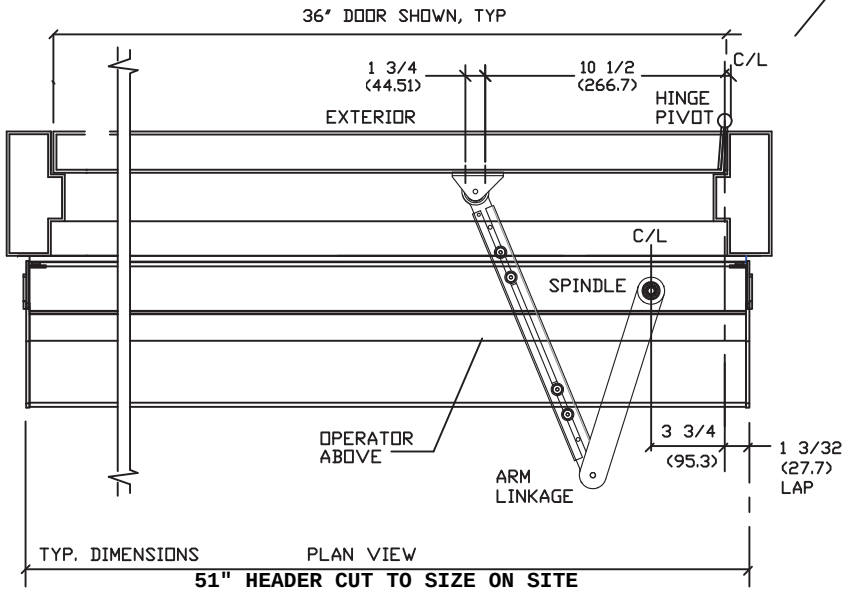
BESAM SW200i
SURFACE APPLIED DUAL SWING DOOR OPERATOR
" PULL APPLICATION "

Opening: PD Employee Entrance
(2) Wireless Wave Plates
Clear Anodized Finish

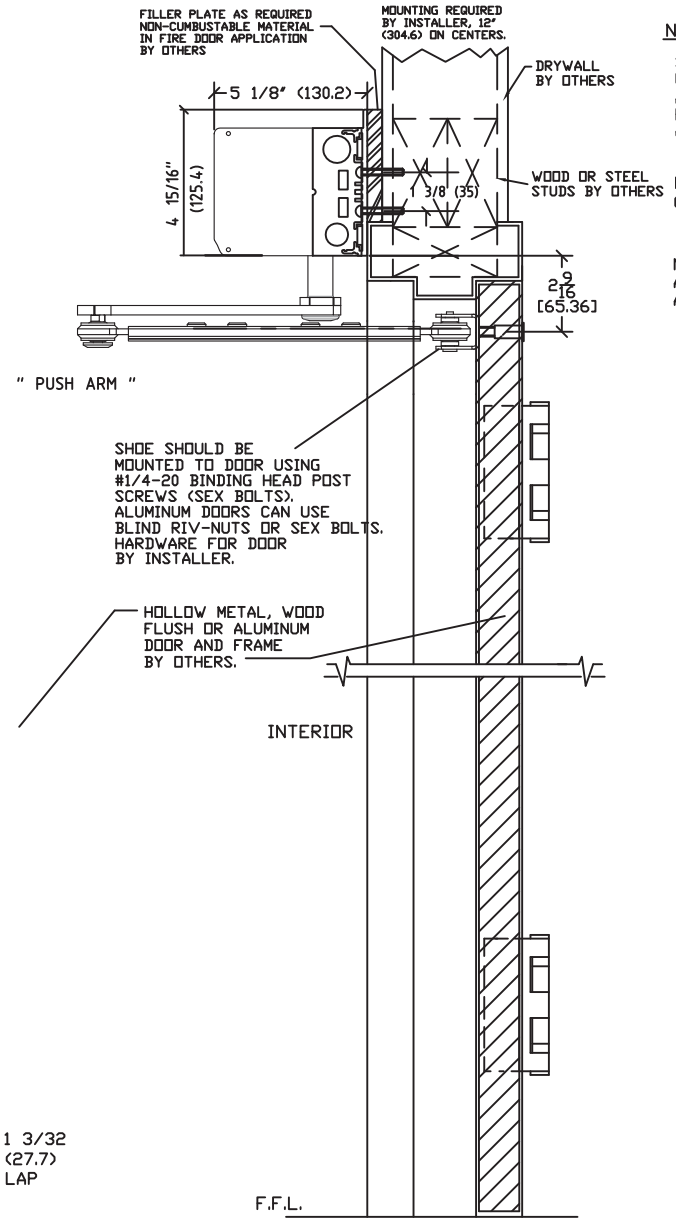
DHPACE
Everything Doors Since 1926



INTERIOR ELEVATION



51" HEADER CUT TO SIZE ON SITE



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FINISH:
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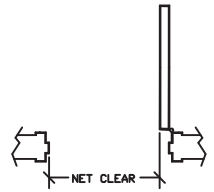

NOTE: *
NET CLEAR (EGRESS MIN 32" (813)) DOOR

ENCROACHMENT OF 4" INTO NET CLEAR BY PANIC HARDWARE IS PERMITTED ABOVE 34".

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Job Name: Lee's Summit Police Department
DRN BY: Mike Morrison | DATE: 04/06/2021

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BESAM SW200i
SURFACE APPLIED SINGLE
SWING DOOR OPERATOR
" PUSH APPLICATION "

Michael Morrison– Estimator
(816) 221-0543 office
Email: Michael.Morrison@dhpace.com

DATE: April 7, 2021

PROJECT: Lee's Summit Police Department – Lee's Summit, MO

EQUIPMENT: Besam SW200i Low Energy Automatic Swing Door Operator

ASSA ABLOY

AUTOMATIC DOOR OPERATORS

PART 1 - PRODUCTS

1.1 MANUFACTURER

A. Manufacturer: ASSA ABLOY Entrance Systems, 1900 Airport Road, Monroe, NC 28110. Toll Free (877) SPEC-123. Fax (704) 290- 5555 Website www.assaabloyentrance.com contact: specdesk.na.aaes@assaabloy.com

1.2 MATERIALS

A. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated, as indicated below:

1. Extruded Aluminum, Alloy 6063-T5.

1.3 SWING DOOR OPERATORS

A. Model: Besam ASSA ABLOY SW200i low energy automatic door operator:

1. Reference Standard: ANSI/BHMA A156.19.
2. Configuration: Operator to control single swinging doors and pairs of swinging doors as indicated on the drawings and specified below:
   a. Traffic Pattern: [Two way.]
   b. PD Entrance: Single Door
   c. Training Vestibule: Pairs of Doors: [Independent operation.]
3. Automatic Door Operator: Electro-mechanical, non-handed operator, powered by 24 volt, 1/4 hp motor. Operator shall be adjustable to compensate for different manual push forces as required.
   a. Automatic operator shall be capable of operating and controlling up to a 700 pound (317.5 kg) door, 48 inches (1219 mm) in width.
   b. [Surface Mounted Operator:]
      1) [Side Access Operator Housing: Operator is contained in 5-1/8" (130.2 mm) deep x 4 5/16" (110 mm) high extruded aluminum housing with a removable cover.]
      2) Surface Mounted Housing: Continuous for full width of door.

3) Connecting Hardware: Surface mounted operators to have a steel arm from the operator, mounted to the top face of the swing door.
4) UL Listed R-9469 Fire Door Operator with Automatic Closer (surface mounted operator).

c. Operator shall be field switchable between an ANSI/BHMA A156.19 and an ANSI/BHMA A156.10 compliant operator and vice versa. Addition of the required safety sensors, activation devices and guard rails may be required to comply with the applicable standard.
d. Operator Temperature Range: Capable of operating within temperature ranges of -31° F to 160° F (-35° C to 71° C).
e. Electrical Characteristics: Maximum power consumption is 300 watts (2.5 amps at 120 VAC), 50/60hz, built-in thermal overload protection.
f. [Digital Cycle Counter: Battery powered, 7 digit LCD cycle counter with a reset feature to track door usage cycles.]

4. Door Operation:
a. Opening Cycle The adjustable speed operator mechanically powers the drive shaft and the torque control maintains constant speed throughout the opening cycle regardless of stack pressures or wind speed. Operator shall allow manual door operation with operational forces as indicated to fully open the door applied at 1" (25 mm) from the latch edge of the door.
1) Manual push force shall be adjustable from 5 lbf to 15 lbf maximum.
b. Hold Open: The operator shall stop and hold the door open at the selected door opening angle for an adjustable period of time (1.5 seconds to 30 seconds).
c. Closing Cycle: Spring close with speed controlled power assist.
1) Upon loss of power, dynamic braking will control the door insuring controlled closing.
2) Selectable Torque Control: Automatically adjusts torque without changing the closing speed of the operator.
a) When the torque control is activated, the closing speed shall remain constant regardless of stack pressures or wind speed.
b) Torque Cancellation: The torque control is deactivated whenever there is a signal received from door mounted sensors.
c) The torque control is disabled during manual use of the door.
d. Wind Force Dampening: The operator electromechanically counteracts wind forces, slowing down the door movement to safely open or close the door.
e. Stack Pressure Compensation: Operator shall counteract positive stack pressures, negative stack pressures, and sudden changes of stack pressures. The operator never allows the door to open or close faster than the speed control settings, regardless of pressures.
f. Obstruction Control: The operator will stop and reverse the door movement.
g. Electric Lock Management:
1) Internal module for electrified locking integration.
2) Electric Lock Output: Selectable 12 VDC, maximum 1200 mA / 24 VDC, maximum 600 mA.
3) Lock monitoring prevents operator(s) from opening door(s) until release of electrified lock.
4) Operator pulls door closed before opening, automatically unjamming electric latch hardware.

5) Sequenced operation between operators for pairs of doors allowing lock release and astragal coordination.

h. Lock Retry Circuit: If attempt to fully close the door is unsuccessful, the operator will automatically reverse open 10 degrees and reclose in an attempt to successfully close the door.

i. Selectable Alarm Reset: The operator can be field set so that after receiving an alarm signal, the operator will not accept any activation impulses and will operate only as a manual door closer until manually reset.

j. Electronic Controls: Solid state integrated circuit controls the operation and switching of the swing power operator. The electronic control provides low voltage power supply for all means of actuation. The controls include time delay (1 to 30 seconds) for normal cycle.

k. Control Switch: Automatic door operators shall be equipped with the following type of multi-position function switch:

1) [3 position rocker switch mounted on end cap (On-Off-Hold).]

5. Operator Interface:

a. Safety Sensor Integration for overhead presence safety device and door mounted reactivation safety sensors.

1.4 ACTIVATION DEVICES

A. General: Provide activation devices in accordance with ANSI/BHMA standards, for condition of exposure and for long-term, maintenance-free operation under normal traffic load for type of occupancy indicated. Coordinate activation and safety devices with door operation and door operator mechanisms.

B. [Knowing Act Activation Device:]

1. [Wireless Sensor Plate: Touchless, [4-1/2 inch square] activation sensor plates. Microwave technology has an adjustable range of 2 inches to 24 inches.]

C. Manual Operation:

1. [Operator shall allow manual door operation with operational forces adjustable from 5 lbf to 15 lbf maximum.]

1.5 ALUMINUM FINISHES

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Automatic Door Operator Enclosure:

1. [Anodized Finish:]

a. [AAMA 611, Clear, AA- M12C22A41, Class I, 0.018 mm.]

END OF SECTION

SURE WAVE™ BY CAMDEN

CM-330 SERIES

ACTIVE INFRA-RED 'HANDS-FREE' SWITCHES

ADA Compliant

ROHS COMPLIANT

CM-330/N

CM-330/42

CM-330/41WS

CM-330/40W

FEATURES

- CHOICE OF 12/24V AC/DC AND BATTERY OPERATED MODELS
- CHOICE OF HARD WIRED, OR BATTERY POWERED WIRELESS MODELS, AND COMBINATION WIRED/WIRELESS MODELS
- CHOICE OF STAINLESS STEEL OR HIGH-IMPACT POLYCARBONATE FACEPLATES
- ADJUSTABLE STANDARD OPERATING RANGE 1"- 28"
- AUTO RANGE MODE, UP TO 72"
- ADJUSTABLE TIME DELAY 3–30 SECONDS
- SELECTABLE FAIL-SAFE/FAIL SECURE OPERATION
- ACTIVE OUTPUT, FOR EXTERNAL ALARM, LED, OR ANNUNCIATOR
- 'REQUEST TO EXIT' AND EXTERNAL (DOOR CONTACT) INPUTS (CM-332, CM-333)
- SUPER-FAST ACTIVATION RESPONSE <90MS
- HEAVY DUTY 3 AMP RELAYS, FOR USE WITH ALL AUTOMATIC OPERATORS AND ELECTRIFIED LOCKS
- OPTIONAL LIGHT RING, PROVIDES VISUAL INDICATION OF DOOR STATUS AND ALARMS. CONTROLLED LOCALLY OR REMOTE

DESCRIPTION

Sure-Wave™ Hands-Free Switch are active infra-red devices utilizing micro burst sensor technology, designed for use in ADA compliant automatic door and UL compliant access control applications. The switches eliminate the spread of germs by avoiding physical contact and offer building occupants greater convenience when moving through the premises. There is a complete range of wired, wireless and wired/wireless hi-brid models to provide the best solution for any application. An optional light ring, providing visual indication door status and alarms is available for all line powered models. Sure-Wave™ switches are available with either stainless steel or impact resistant polycarbonate faceplates, in narrow (jamb), single gang or double gang configurations. All models are ROHS compliant with lead-free construction.

APPLICATION

Sure-Wave™ hands-free switches are American Disability Act (ADA) compliant, and provide barrier free access and egress to buildings and washroom facilities. Sure-Wave™ hands-free switches are also UL 294 compliant, for use in code compliant access control systems.The rugged construction and heavy duty relay rating make them ideal for use on low-energy automatic doors, drive-up windows, and interior and exterior doors in virtually any commercial (office, retail), institutional (school, hospital or clinic), or industrial (manufacturing) facility.

ARCHITECTS/ENGINEERS SPECIFICATIONS

All door activation switches to be used throughout the facility shall be CM-330 Series Sure-Wave™ active infra-red hands-free switches, utilizing 'microburst' sensing technology, as manufactured by Camden Door Controls.

The switches shall be jamb/narrow, single gang or double gang mounted, with either polycarbonate or stainless steel faceplate as required. They shall have an on-board LED for ease of set-up, selectable fail safe/fail secure operation, an adjustable (standard) operating range from 1" to 28" (25.4mm - 711.2mm) and 1 or 2 relay contacts rating of 3 amps @ 30 VDC. Switches mounted outdoors, or exposed to interior water/humidity shall be mounted with weather resistant integral rubber gasket and back box, supplied by the same manufacturer.

SPECIFICATIONS

SENSOR TYPE:	INFRA-RED, UTILIZING MICROBURST TECHNOLOGY
OPERATING TEMP:	-4° F TO +153° F (-20° C TO +85° C)
RESPONSE TIME:	90 MS.
TIME DELAY:	3 TO 30 SECONDS
CONNECTIONS:	20 - 22 AWG WIRE

CM-330 BATTERY OPERATED WIRELESS

SIMPLE OPERATION, AVOID COST OF WIRING

NO. OF IR SENSORS:	(1)
BATTERIES	(2) 'AA' ALKALINE (SUPPLIED) (2) 'AA' LITHIUM BATTERIES (OPTIONAL)
ESTIMATED BATTERY LIFE:	2 YRS (BASED ON 100 OPERATIONS/DAY)
STANDARD OPERATING RANGE:	1"- 12" (25.4MM - 304MM)
OPERATING MODE:	MOMENTARY
INPUTS:	'REQUEST TO EXIT' EXTERNAL (DOOR CONTACT)
WIRELESS OUTPUT:	BUILT-IN 915MHZ. SPREAD SPECTRUM WIRELESS TRANSMITTER

CM-331 WIRED, 1 RELAY, OPTION FOR WIRELESS TRANSMITTER

ECONOMICAL, IDEAL FOR MOST APPLICATIONS (INCL. RETRO FIT)

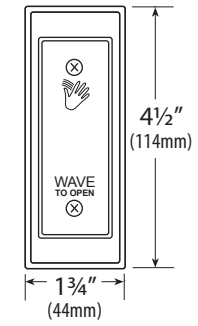
NO. OF IR SENSORS:	(2)
OPERATING VOLTAGE:	12-24 VOLTS, AC/DC ± 10%
CURRENT DRAW:	40MA
STANDARD OPERATING RANGE:	1"- 28" (25.4MM - 711.2MM)
AUTO RANGE OPERATION:	6"-40" (152.4MM – 1.016M) HAND 6"-72" (152.4MM – 1.820M) BODY

CM-330/N

CM-330

SWITCH MODELS

CM-330	HANDS FREE SWITCH, BATTERY POWERED, BUILT-IN WIRELESS TRANSMITTER (NO LIGHT RING OPTION)
CM-331	HANDS FREE SWITCH, WIRED, 1 RELAY, OPTION FOR PLUG-IN WIRELESS TRANSMITTER AND LIGHT RING
CM-332	HANDS FREE SWITCH, WIRED, 2 RELAYS, OPTION FOR PLUG-IN WIRELESS TRANSMITTER AND LIGHT RING
CM-333	HANDS FREE SWITCH, BATTERY POWERED, 1 RELAY, OPTION FOR PLUG-IN WIRELESS TRANSMITTER



CM-330/41N

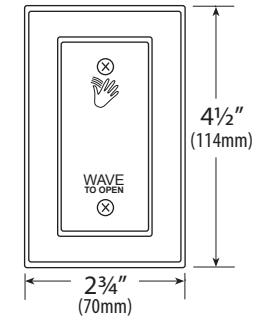
CONFIGURATION OPTIONS

FACEPLATE MATERIAL

CM-XXXP	POLYCARBONATE FACEPLATE
CM-XXXS	STAINLESS STEEL FACEPLATE

FACEPLATE SIZE

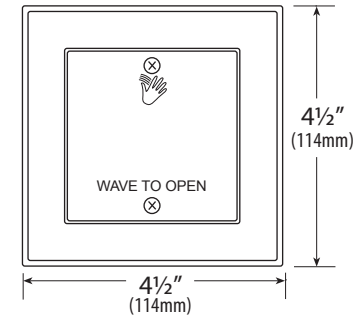
CM-XXX/N	NARROW FACEPLATE
CM-XXX	SINGLE GANG FACEPLATE
CM-XXX/W	DOUBLE GANG FACEPLATE



CM-330/41

GRAPHICS

CM-XXX	BLANK FACEPLATE
CM-XXX/40	HAND ICON ONLY
CM-XXX/41	HAND ICON AND 'WAVE TO OPEN' TEXT
CM-XXX/42	HAND ICON, 'WAVE TO OPEN' TEXT AND WHEELCHAIR SYMBOL



CM-330/41W

LITHIUM BATTERIES

CX-XXXL1	ADD SUFFIX 'L1' FOR (2) 'AA' LITHIUM BATTERIES IN PLACE OF (2) ALKALINE
CM-LP1	(2) AA LITHIUM BATTERY PACK

LIGHT RING

CM-XXX/SGLR	LIGHT RING PCB, AND STAINLESS STEEL SINGLE OR DOUBLE GANG FACEPLATE. NOT AVAILABLE WITH NARROW FACEPLATE. (FOR CM-331 OR CM-332 MODELS)

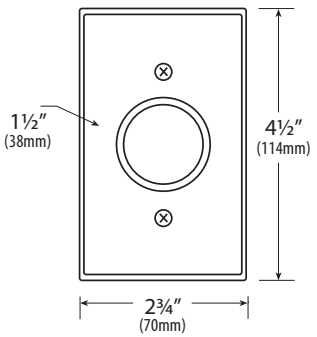
OPTIONAL WIRELESS TRANSMITTER

(FOR CM-331, CM-332 AND CM-333 MODELS)

CM-TX99	TWO CHANNEL LAZERPOINT RF™ PLUG-IN WIRELESS TRANSMITTER

RECEIVERS

CM-RX91	ONE RELAY LAZERPOINT RF RECEIVER
CM-RX92	TWO RELAY LAZERPOINT RF RECEIVER



CM-XXX-SGLR
FACEPLATE

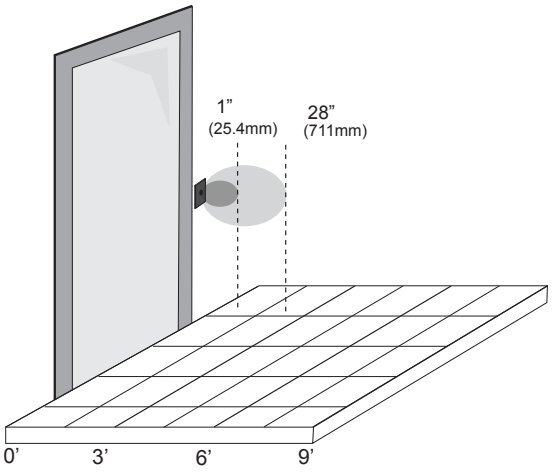
SURFACE MOUNT BOXES-FLAME RETARDANT POLYMER

JAMB BOX
CM-23D 4 1/2" H X 1 3/4" W X 1 1/2" D (114MM X 44MM X 38MM)

SINGLE GANG
CM-34BL 4 1/2" H X 2 3/4" W X 1 3/4" D (114MM X 70MM X 44MM)

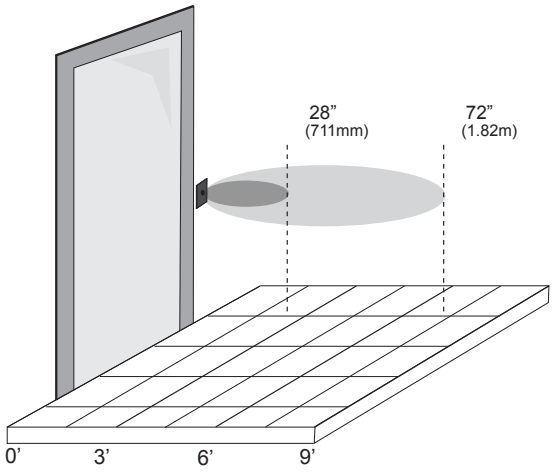
DOUBLE GANG
CM-43CBLA 5" H X 5" W X 2" D (127MM X 127MM X 51MM)

ADJUSTABLE SENSOR RANGE



ADJUSTABLE OPERATING RANGE (1" TO 28")

All SureWave™ hands free switch models have easy field adjustment of the operating range, up to 28", making them ideal for virtually any door control application.



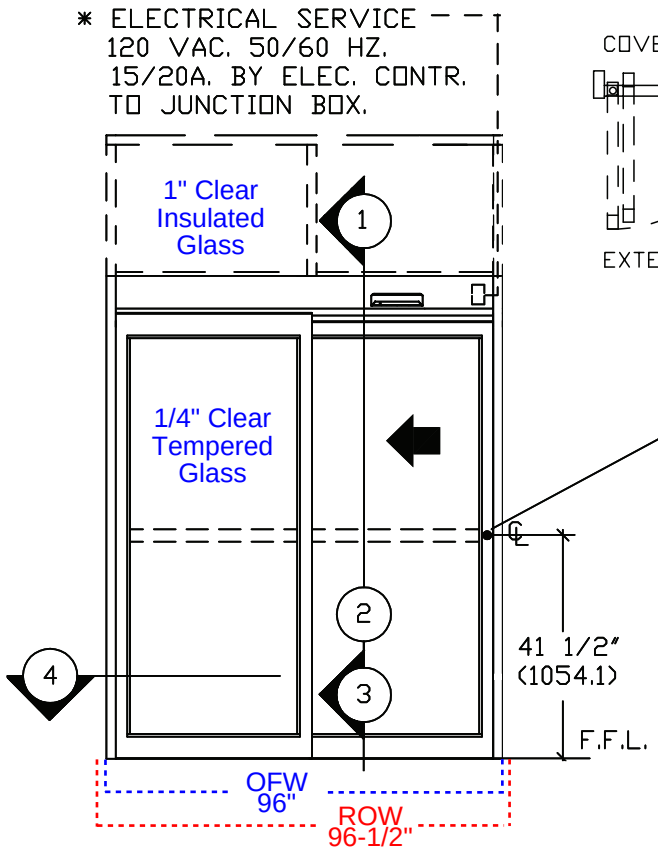
AUTO RANGE MODE (UP TO 72")

CM-331 and CM-332 SureWave™ models can be set to automatically detect the operating range to a stationary object (i.e. wall, railing or cart) placed in range of the switch, up to 72" distance. If the stationary object is moved, the switch will automatically adjust to suit the changed condition.

Openings: Interior Doors
Narrow Stile
4" Muntins
Holding Beams
Hydraulic Closer w/Magnetic Catches
Fail-secure Electric Locking with Panic Devices
Custom Painted Finish (sample to be matched)

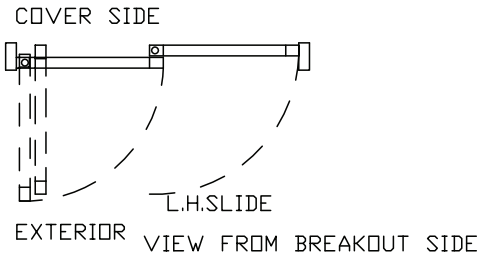
Handing:
Exit: Left Hand
Entrance: Right Hand

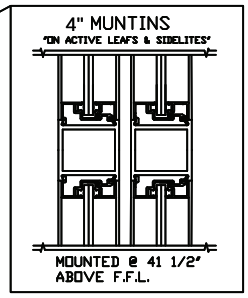
Please confirm or clarify if this handing is acceptable.

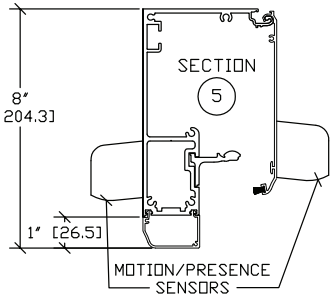


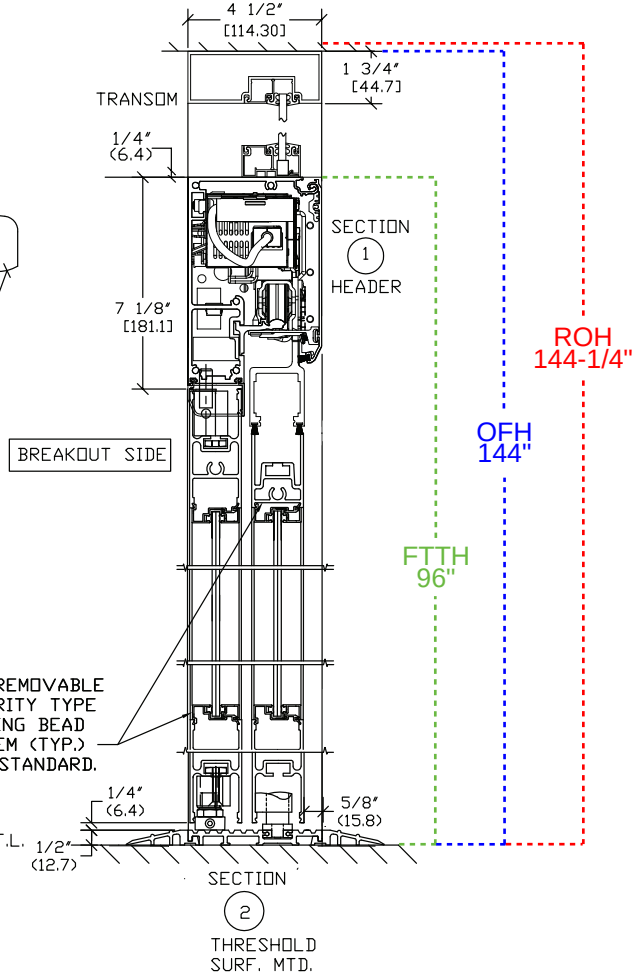
Dimensions to be field verified.

LEFT HAND SLIDE **(RIGHT HAND SLIDE OPPOSITE)**
BREAKOUT SIDE EXTERIOR ELEVATION

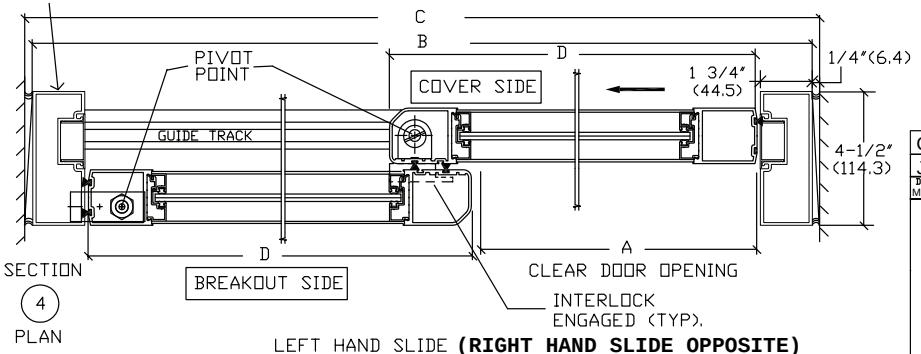








Dimensions to be field verified.



LEFT HAND SLIDE **(RIGHT HAND SLIDE OPPOSITE)**

SL500 OHC	DOOR OPENING A	OVERALL FRAME WIDTH B	MASONRY OPENING WIDTH C	ACTIVE & SIDELITE LEAF WIDTH D
	41-1/4"	96"	96-1/2"	47-1/2"
KEY	(B/2)-6 3/4" (B/2)-(171.5)	(C-1/2") (C-12.7)	(B+1/2") (B+12.7)	(B/2)-1/2" (B/2)-(12.7)

Customer Name: City of Lee's Summit
Job Name: Lee's Summit Police Department
DRN BY Mike Morrison | DATE 04/08/2021

Jimmy Jones, AAADM, Fire Check Certified
Sales
DH Pace Entry Door Systems Group
Office: (816) 221-0072
Mobile: (816) 918-8499
Email: Jimmy.Jones@dhpace.com
DHPACE Everything Doors Since 1926
www.dhpace.com

ASSA ABLOY
ASSA ABLOY Entrance Systems
1900 Airport Road
Monroe, NC 28110
Phone: 1-866-237-2687
specdesk.na.besam@assaabloy.com

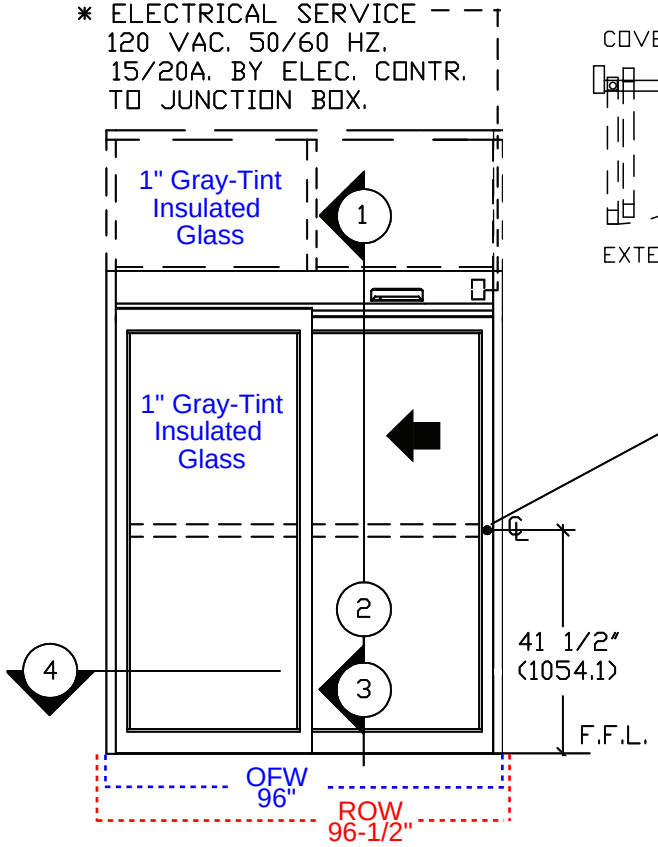
BESAM SL500
OVERHEAD CONCEALED FULL BREAKOUT
NARROW STILE SINGLE SLIDE DOOR SYSTEM

Openings: Exterior Doors
Narrow Stile
4" Muntins
Holding Beams
Hydraulic Closer w/Magnetic Catches
Cylinder/thumbturn lock with indicator
Custom Painted Finish (sample to be matched)

Handing:
Exit: Left Hand
Entrance: Right Hand

Please confirm or clarify if this handing is acceptable.

DHPACE
Everything Doors Since 1926



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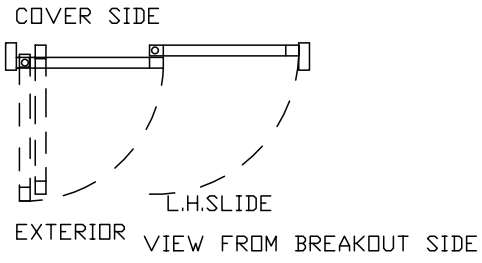
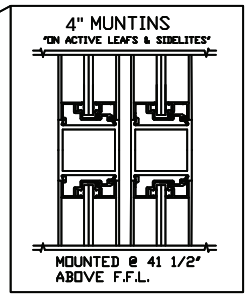
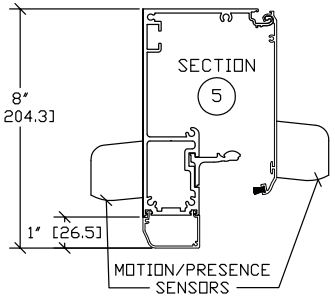
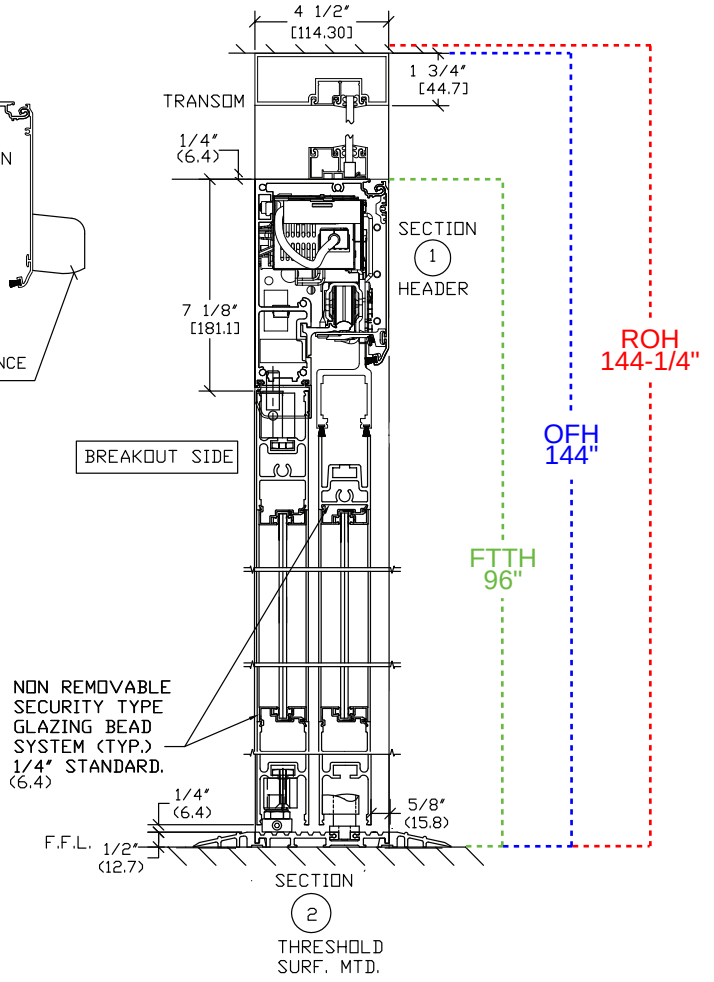
BREAKOUT SIDE EXTERIOR ELEVATION

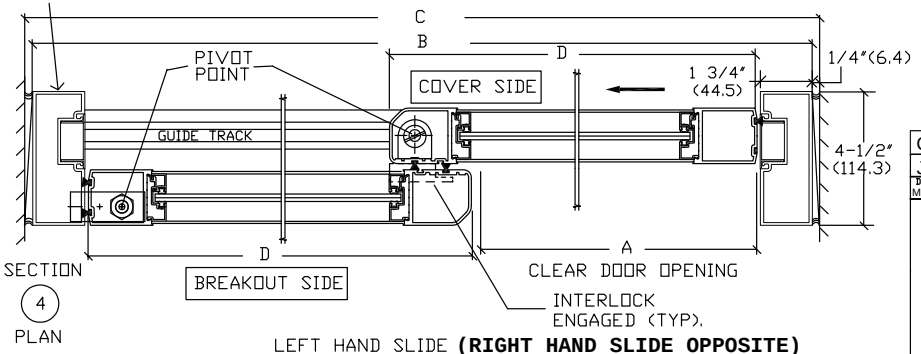








Dimensions to be field verified.



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OVERHEAD CONCEALED FULL BREAKOUT
NARROW STILE SINGLE SLIDE DOOR SYSTEM

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ENTRY DOOR SYSTEMS GROUP
DHPace.com

Michael Morrison – Estimator
(816) 221-0543 office
Email: Michael.Morrison@dhpace.com

DATE: April 8, 2021

PROJECT: Lee's Summit Police Department – Lee's Summit, MO

EQUIPMENT: Besam SL500 Bi-parting Automatic Door System

ASSA ABLOY

SLIDING AUTOMATIC ENTRANCES

PART 1 - PRODUCTS

1.1 MANUFACTURER

A. Manufacturer: ASSA ABLOY Entrance Systems, 1900 Airport Road, Monroe, NC 28110. Toll Free (877) SPEC-123. Phone (704) 290-5520 Fax (704) 290- 5555 Website www.assaabloyentrance.com contact: specdesk.na.aaes@assaabloy.com

1.2 SLIDING AUTOMATIC ENTRANCES

A. Model: Besam SL500 sliding automatic doors.

1. Aluminum doors and frames with sidelites and active door leaves.
2. Overhead concealed, electro-mechanical, microprocessor controlled, sliding door operator.
3. Operator housing, guide system and door carriers.

B. Sliding Automatic Entrance Doors Configuration:

1. **[Single slide, full breakout, door system.]**
   a. Configuration: Single slide, two equal panel door unit with one operable leaf and one sidelite unit.
   b. Traffic Pattern: **[One-way.]**
   c. Emergency Breakaway Capability: Interior sliding leaf and sidelite unit.
   d. Mounting: Overhead header installed between jambs.
2. Dimensions: Confirm door package dimensions as indicated on Architectural drawings and verified in the field.

1.3 ALUMINUM DOORS AND FRAMES

A. Doors and Frames: Extruded Aluminum, Alloy 6063-T5.

1. Door panels shall have a minimum .125 inch (3.2 mm) structural wall thickness including adjoining horizontal members and perimeter frames where applicable.
2. Door Construction shall be by means of an integrated corner block with 3/8 inch all-thread through bolt from each stile.
3. Glass stops shall be .062 inch (15.8 mm) wall thickness and shall provide security function as a standard by means of a fixed non-removable exterior section with glazing to be performed from the interior only. Glazing stops that allow for glass removal from the exterior shall not be deemed as equivalent.
4. The sliding door system shall include two interlocks securing the leading stile of the sidelite and the butt stile of the sliding door panel together.
5. Vertical Stiles shall be **[narrow stile 2-1/8 inch (54 mm).]**
6. Bottom Rails shall be **[4 inch (102 mm).]**
7. **[Intermediate Muntin shall be [4 inch (102 mm).]**
8. Weather-stripping shall be slide-in type, replaceable pile mohair seals retained by the aluminum extrusions. The following types of weather-stripping are required: complementing weather-stripping on the joining vertical stiles of the sidelite and sliding door panels, complementing weather-stripping on the lead edge of the lock stiles of bi-parting doors, single pile weather-stripping between the carrier and the header, single pile weather-stripping on the lead edge stile of single slide door panels, dual pile weather-stripping on the pivot stile of breakout sidelite panels, and dual pile weather-stripping on the butt stile of fixed sidelite panels. Bottom rails shall be provided with an adjustable nylon sweep.

B. Glass: Glazing shall comply with ANSI Z97.1, thickness as indicated.

1. **Interior Openings:**
   a. Doors Panels: **[1/4" (6 mm)]** Clear tempered glass.
   b. Transom Panels: **[1" (25 mm)]** Clear insulated glass.
2. **Exterior Openings:**
   a. Door and Transom Panels: **[1" (25mm)]** Gray-tinted insulated glass.

C. Door Carriers: Manufacturer's standard carrier assembly that allows vertical adjustment.

1. Carriage Assembly: Carriage bar with two wheel assemblies. Each assembly shall have tandem roller wheels.
2. Roller Wheels: Two heavy duty Delrin roller wheels per wheel assembly, for a total of four (4) roller wheels, 1-7/16 inch (36.51 mm) diameter, per active door leaf for operation over a replaceable aluminum track. Single journal with sealed oil impregnated bearings.
3. Two (2) heavy duty self-aligning anti-risers per leaf.

D. Framing Members: Provide automatic entrances as complete assemblies. Manufacturer's standard extruded aluminum framing reinforced as required to support loads.

1. Vertical jambs shall be 1-3/4 inches (44.5 mm) by **[4-1/2 inches (114.3 mm).]**

E. Header: Manufacturer's standard one-piece extruded aluminum header with a replaceable aluminum track extending full width of entrance unit. Header to conceal door operators, carrier assemblies, and roller track; complete with hinged access panel for service of door operator, and controls.

1. Span: Maximum 16'-0" (4.9 m) without intermediate supports when using 1/4-inch glass.
   a. Capacity: Capable of supporting active breakout leafs up to maximum of 300 lb (136 kg) per leaf when header is supported per manufacturer's recommendations.
2. Size: **[4-1/2 inches (114.3 mm)]** wide by 7 inches (177.8 mm) high.
   a. Header height including the sensor plate cap which spans the clear door opening width is 8-1/2 inches (215.9 mm) high.
3. Hinge Point: Continuous hinge at top of header allows for complete access to operator and internal electronic and mechanical assemblies.
4. Design: Manufacturer's standard closed header.

F. Hardware: Provide manufacturer's standard hardware as required for operation indicated.

1. Breakaway arms and bottom pivot assemblies shall be supplied by the manufacturer and shall be adjustable to comply with applicable codes.
   a. **[Magnetic catch(s) to retain breakout door and sidelite panels in the closed position.]**
   b. **[Hydraulic closer(s) to return breakout door and sidelite panels to the closed position, and magnetic catch(s) to retain breakout door and sidelite panels in the closed position.]**
2. Locking hardware shall be provided as indicated.
   a. **Interior Openings:**
      1) [Electrified slide lock shall automatically lock the sliding function of all sliding door panels within the entrance when the door panels are in the closed position.]
      2) [Fail secure operation: Slide lock shall lock the sliding function of the door panels upon loss of power.]
      3) [Exit devices shall lock the breakout function while allowing emergency egress at all times. Exit devices in combination with the automatic slide locking hardware to be provided on secured doors. Automatic locking for the sliding door when the door control switch is in the closed position.]
      4) [Flush mounted Adams-Rite F86 Series, concealed vertical rod exit devices mounted to active doors.]
      5) Exterior jamb mounted key switch to unlock sliding door operation.
   b. **Exterior Openings:**
      1) [Mortise type hookbolt latch.
      2) Interior Side: **[Thumbturn.]** Lock indicators shall be provided.
      3) Exterior Side: **[Keyed cylinder.]**
3. Keyed cylinders shall be provided as indicated.
   a. **[Manufacturer's standard keyed cylinder.]**

G. Guide Track/Threshold: Manufacturer's threshold as indicated.
1. **[1/2 inch (12.7 mm) high by 4-1/2 inch (114.3 mm) width continuous aluminum threshold with integral track shall span the entire width of the sliding door header and fit between the vertical framing members. Threshold design shall allow for optional extruded ramps to securely interlock to flat section to meet ADA requirements.]**
a. **[Surface mounted threshold with interlocking ADA accessible ramps.]**

1.4 SLIDING DOOR OPERATOR

A. Door Operator and Controller:

1. Electro-mechanical controlled unit utilizing a high-efficiency, energy efficient, DC motor requiring a maximum of 3 amp current draw, allowing 5 operators on one 20 amp circuit. The supplied system shall have the capability to operate at full performance well beyond a brown out and high line voltage conditions (85V – 265V) sensing changes and adjusting automatically. The operator shall allow an adjustable hold open time delay of 0 to 60 seconds and have internal software to incorporate a self-diagnostic system.

B. Microprocessor Control Box:

1. Modular control unit to allow for changing technology. Factory-adjusted configuration with opening and closing speeds set to comply with ANSI/BHMA A156.10 requirements and electronic dampening to reduce wear on drive train. Should the drive train operations deviate from design criteria ranges, Watchdog Control Circuit Monitoring will assume command of the system and shut down the automatic function allowing a secondary supervisory circuit to perform as a backup. Control unit shall allow the following functions:
a. Diagnostics with the ability to produce application data.

2. Mode Selector Control:
a. **[Multi-position [keyed cylinder] mode selector switch to be interior jamb mounted and shall allow selection of the indicated functions to be engaged when switch is turned to the appropriate setting.]**
b. Mode selector control to allow the following functions:
1) "Off"
2) "Exit Only" one way traffic with automatic operation from the interior.
3) "Two Way Traffic" allowing automatic operation from exterior and interior.
4) "Partial Opening" energy saving door position allows door to automatically adjust opening width based on amount of usage, that is, full open during high use and partial open during low use. The control for this setting is programmable allowing adjustment to both the usage setting and the opening width.
5) "Hold Open" doors activated and held in the full open position.

1.5 ACTIVATION AND SAFETY CONTROL DEVICES

A. General: Provide the types of activation and safety devices specified in accordance with ANSI/BHMA standards, for the condition of exposure and for long-term, maintenance-free operation under normal traffic load for type of occupancy indicated. Coordinate activation and safety devices with door operation and door operator mechanisms.

B. Combination Activation Motion Sensor/Safety Presence Sensor:

1. Shall be a sliding door sensor utilizing K-band microwave technology to detect motion and focused active infrared technology to detect presence, combined in a single housing surface mounted on each side of the header.
   a. Presence sensor shall remain active at all times.
   b. The sensor shall communicate with the automatic door operator through a self-monitoring connection that allows the door to go into a fail safe mode preventing the door from closing in the event of a sensor failure.
2. Motion/presence detecting sensors to be field installed and adjusted.

1.6 ELECTRICAL

A. High-Efficiency DC Motor: Maximum of 3 amp current draw, allowing 5 operators to run on one 20 Amp circuit.

B. Power: Self-detecting line voltage capable control. 120 VAC through 240 VAC, 50/60 Hz, 3 amp minimum incoming power with solid earth ground connection for each door system.

C. Key Impulse Input: Input for card readers or remote activation with independent adjustable hold open delay.

D. Wiring: Separate internal channel raceway free from moving parts.

E. Brown out / high voltage capability: System has capability to operate at full performance well beyond brown out and high voltage line conditions (85 V – 265 V) sensing changes and adjusting automatically.

F. **[Digital Cycle Counter: Battery powered, 7 digit LCD cycle counter with a reset feature to track door usage cycles.]**

1.7 ALUMINUM FINISHES

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. **[Painted Finish:]**
1. **[Kynar finish, [2 coat], to match sample.]**

END OF SECTION
SLIDING AUTOMATIC ENTRANCES