FINAL DRAWINGS

Canton Elevator

2575 Greensburg Road

North Canton, OH 44720

DATE: 12/7/2023
JOB NAME: E-Studio Suites

YOUR JOB: 30859-02 (J30859EN)
DWG #: 12670(Q-18949)

Attention: Sarah Victoria Belison

PROJECT #: 306113

Attached hereto are copies of:

Entrance Drawings: E1 to E 7

These drawings are FINAL and reflect all revisions made to date. Please check all dimensions and details carefully and retain these copies for FILE AND DISTRIBUTION.

Please save this letter for your records and acknowledge by returning a copy signed and dated.

Sincerely,
Columbia Elevator Products Co., Inc.

Klever Calderon

Director of Engineering

ACKNOWLEDGED BY: _____

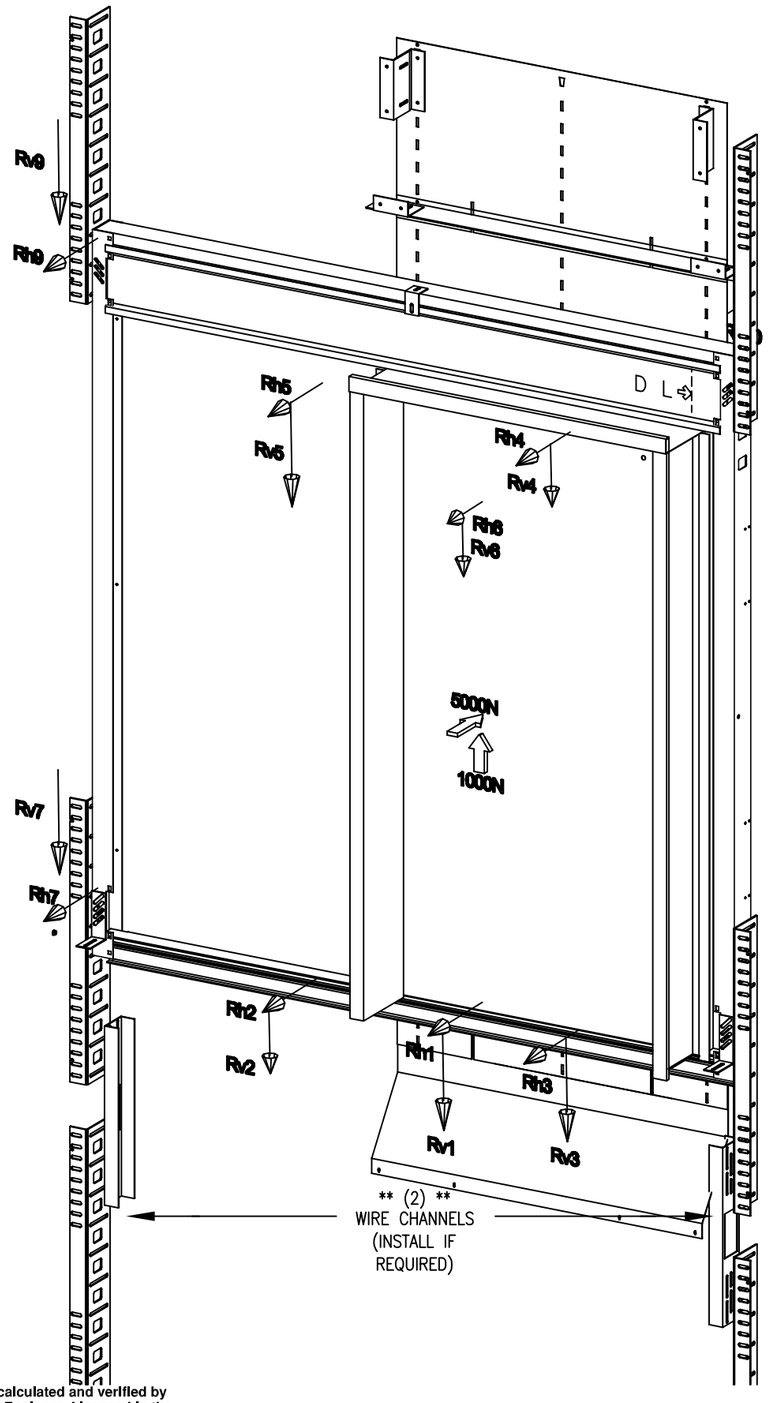
DATE: _____

SENT TO CUSTOMER VIA:

email sarahvictoria.belison@nidec-canton.com

COLUMBIA ELEVATOR PRODUCTS CO., INC.
7702 W 5th Ave, Winfield, KS 67156
(888) 858-1558 x 2225 **E-MAIL: engineering@columbia-elevator.com**

QE4 - (2) 36" X 84", S/SP Right, GAL 8241



Total Travel 11'–3"	(2) ENTRANCES AS SHOWN														Frame Label, UL (1) per opening, Door Label, UL (1) per opening,				FASCIA SUPPORT SETS	
Keyhole Req't Yes/No	Drywall Masonry X=None	SILL TYPE	FLOORS	FLOORS	FLR TO FLR HT	OPN'G HT	STRUT SIZE (2) PER	95" WALL BRKT.	77" WALL BRKT.	58" WALL BRKT.	38" WALL BRKT.	24" WIRE CHANNEL	SPREADER	FASCIA LENGTH	STRUT EXT. FL TO FL DISTANCE	48 WIDTH x 7"	12"	24"	(A)	(B)
																1	1			
YES	D	CE ANG	2	UP	183	84	97.125	2			2		1	14	99	DUST	CVR			
YES	D	CE ANG	*1	2	135	84	97.125			2			1	41	51	1		3		
			PIT	*1	60						4	2		20		TOE	T/Gra			

General Contractor Notes:

1) These drawings have been prepared in full compliance with ASME A17.1 (2015 Edition). Field modifications may affect this compliance (Check local jurisdiction).
2) Hoistway entrances are manufactured in accordance with 1 1/2 Hr. fire rated construction.
3) Hoistway walls to have a fire endurance rating not less than that required by Section 2.1 ASME A17.1 Elevator Safety Code.
4) Hoistway Doors Safety Retainers: Per ASME A17.1 Elevator Safety Code Rule 2.11.11.8 tested and certified by independent lab.
5) Furnishing, installing and maintaining the required fire rating of fire rating of elevator hoistway walls, including the penetration of fire wall by elevator fixture boxes, is not the responsibility of the elevator contractor or elevator entrance manufacturer contractor or elevator entrance manufacturer.
6) The interface of the hoistway wall with the hoistway entrance assembly shall be in strict compliance with the entrance manufacturer's requirements in order to retain fire rating and label validity of the elevator hoistway doors and frame.
7) Hoistway walls at entrances are to be built after door sills and frames are set in place. If this is not feasible, leave a 54" W x 96" H rough opening.
8) Filling and grouting by General Contractor.
9) To achieve the rated strenght of each anchor, the following must be met:
   –Torque to 25 ft/lbs or 3–5 turns past contact
   –4" min. Slab thickness
   –Minimum edge distance = 2"
   –Effective embedment = 2 ¼"

This product is covered by one or more of the following certifications specified by A17.1:

UL, GSUX.R7478	UL, GSUX.R7552	UL, FQXZ.SA12460
UL, GVTV.R9874	UL, GSYX.R7552	UL, GVTV.R9642
UL, GZKZ.R10487	CSA 1209252	CSA 1209259

Columbia Elevator Products Co., Inc. Entrance construction complies with all requirements as set forth in the 2015 ANSI A17.1 Elevator safety code. Compliance with all Local, State, and other Jurisdictional code interpretations and all other additional federal requirements is the total responsibility of our customers.

PLEASE NOTE: COLUMBIA'S STANDARD DOORS ARE DESIGNED TO BE USED IN AN INTERIOR, CLIMATE CONTROLLED ENVIRONMENT, OUT OF DIRECT SUN EXPOSURE.

NOTE: LIMITED WARRANTY APPLIES TO ALL PRODUCTS EXPOSED TO EXTERIOR ELEMENTS.

Columbia Proprietary Information

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BILL OF MATERIALS

ITEM	QTY	MAT'L	FINISHES
BUCKS	2	SEE	FOLLOWING PAGES
H.M. DOORS	2	SEE	FOLLOWING PAGES
HEADERS	2	CRS	GALV
HANGER COVERS	2	CRS	GALV
DUST COVERS	1	CRS	GALV
FASCIA	6	CRS	GALV
TOE GUARDS	1	CRS	GALV
STRUTS	4	11ga	GALV
WIRE CHANNEL	2	11ga	GALV
SILLS	2	SEE	FOLLOWING PAGES
SILL SUPPORT	2	CRS	GALV
SPREADER	2	CRS	GALV
WALL BRACKETS	10	CRS	GALV
HARDWARE	TOWER SET		

FINAL AS BUILT

These drawings represent Columbia interpretation of contract drawings and specifications. Approval by general contractor, Architect and/or Elevator Contractor constitutes acceptance. Columbia does not warranty components not of its manufacture beyond job completion and acceptance. All repairs/or replacement of components should be made directly by those individual manufacturers.

All Reactions calculated and verified by a Professional Engineer, Licensed in the State of New York.

BLDG. LOAD REACTION CHART

R	1	2	3	4	5	6	7	8	9	10
Rh (N)	2500	679.6	212	0.0	0.0	0.0	60.4	109.9	510	928.1
Rv (N)	0.0	323.3	323.3	0.0	0.0	0.0	55.9	120.8	55.9	120.8

Note: Load chart reflect the worst case building reaction loads that result from A17.1 Rules' 2.11.11.5.7 & 2.11.11.8 static load requirements for Entrance Assemblies: 5000N (1125 lbf) Horizontal Force and a 1000N (225 lbf) Vertical Force + 1100N (250 lbf) Horizontal Force applied at the Midpoint of the door panel which generates the maximum reactions.

REVISIONS

#	ITEM	CHECKED BY	DATE

COLUMBIA ELEVATOR

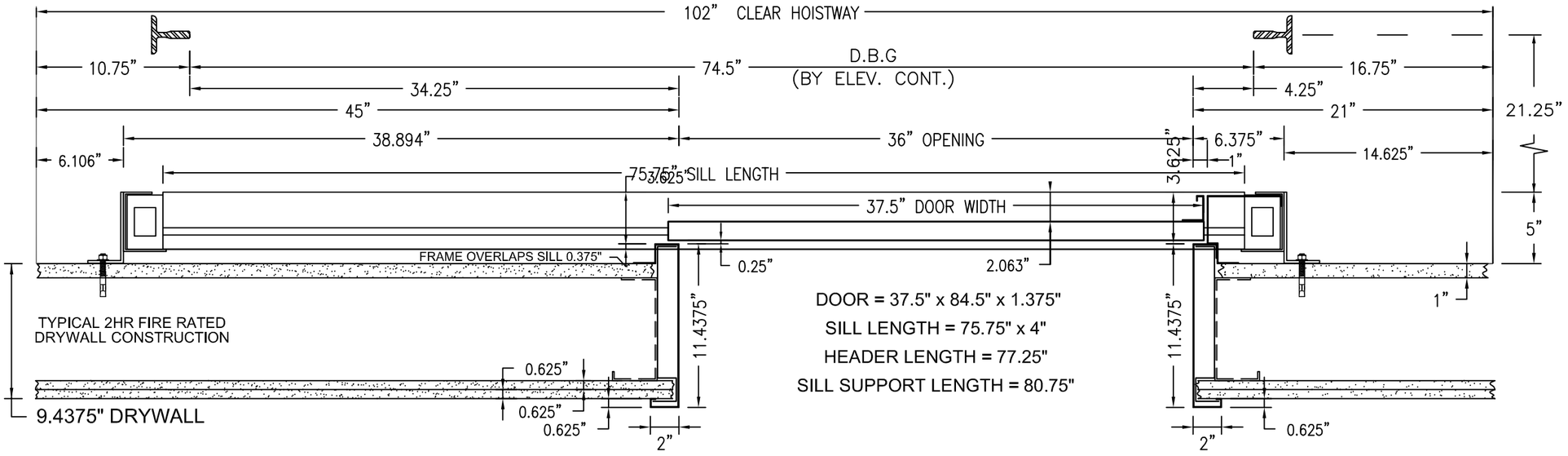
CUSTOMER: Canton Elevator
2575 Greensburg Road
North Canton, OH 44720

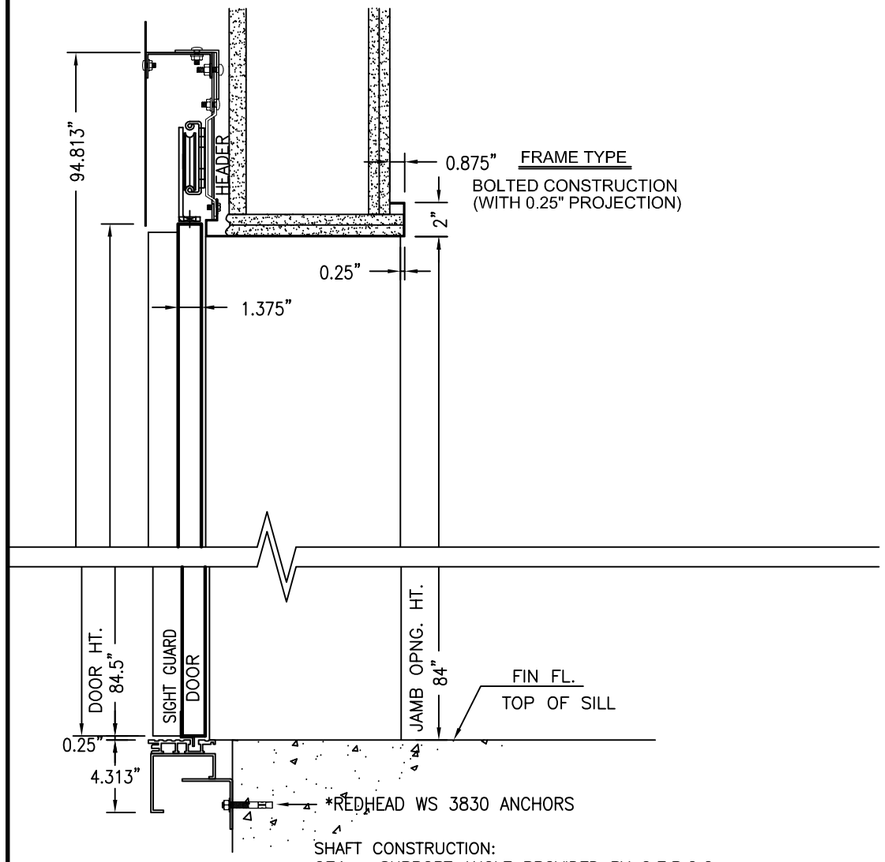
JOB NAME: E–Studio Suites
(J30859EN)
Plainfield, IN

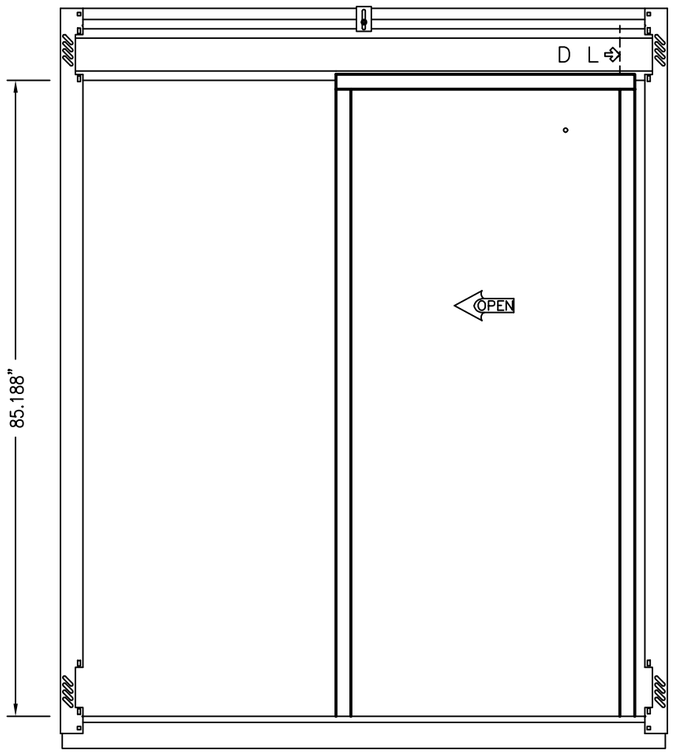
		DWG #:	12670(Q–18949)
SHEET NO.:	1 OF 4	PROJECT #:	306113
DRAWN BY:	C.R.	DATE:	12/07/2023

QE4 - (2) 36" x 84", S/SP Right, GAL 8241

Shaft 1 of 1, Entrance Configuration 1 of 1







DOOR(s) WEIGHT	(1) 176 lb Per Panel, 176 lb Per Opening

Landings: *1, 2

ITEM	QTY	MAT'L	FINISH
BUCKS	2	S/ST	#4,
DOORS	2	S/ST	#4,
SILLS	2	Aluminum	Mill finish

COLUMBIA ELEVATOR

CUSTOMER: Canton Elevator
2575 Greensburg Road
North Canton, OH 44720

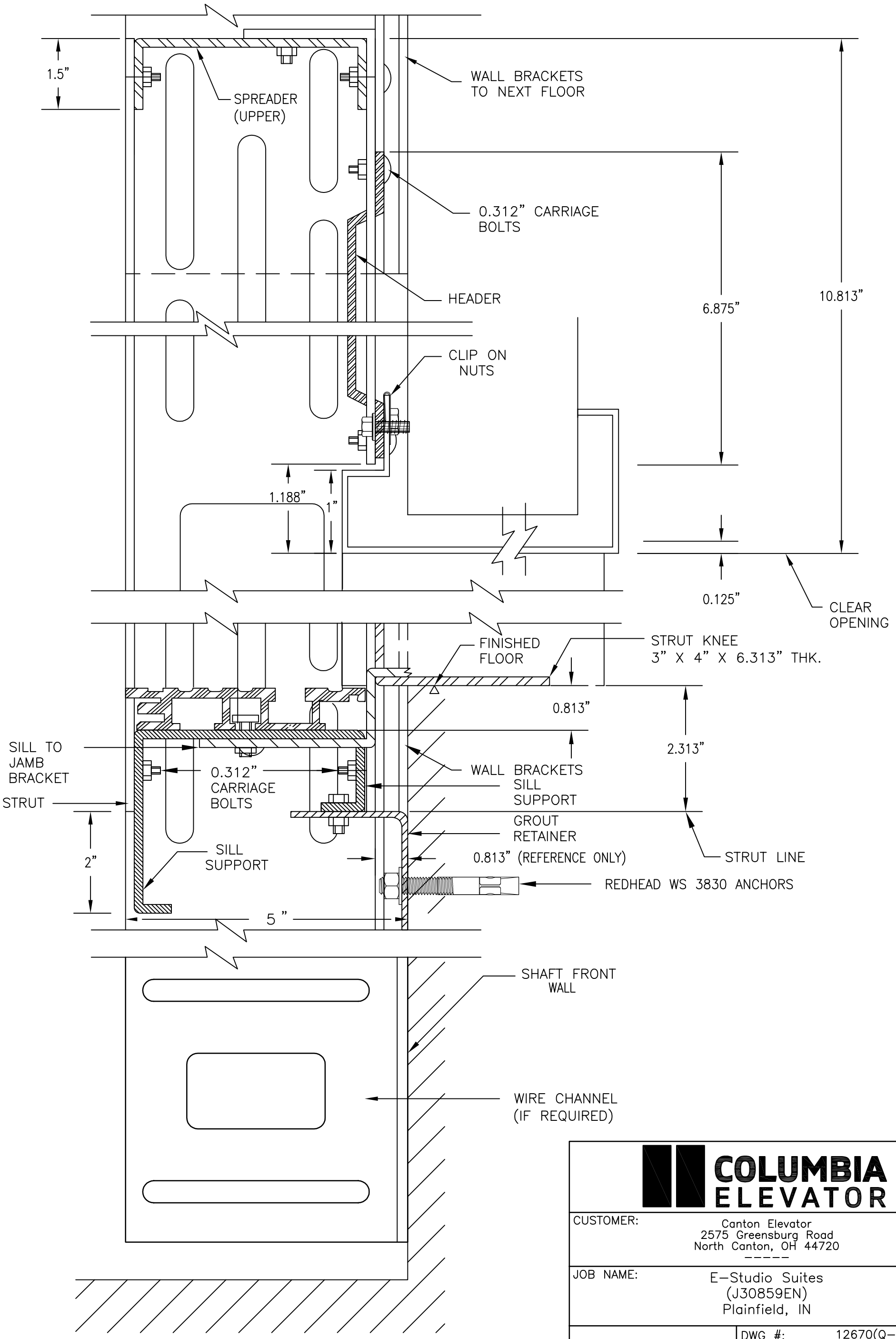
JOB NAME: E-Studio Suites
(J30859EN)
Plainfield, IN

		DWG #:	12670(Q-18949)
SHEET NO.:	2 OF 4	PROJECT #:	306113
DRAWN BY:	C.R.	DATE:	12/07/2023

QE4 -

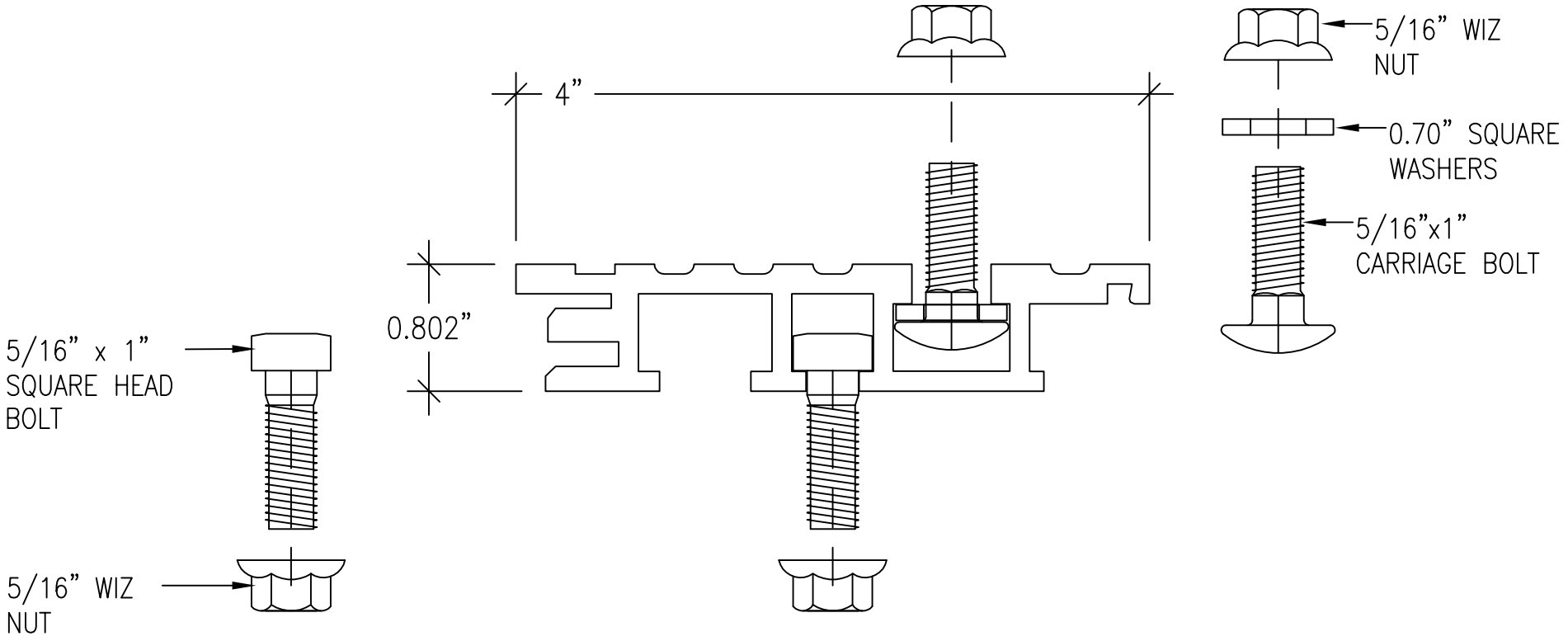
STRUT LENGTH

L = CL. OPNG. + 13.125”



COLUMBIA ELEVATOR

CUSTOMER:	Canton Elevator 2575 Greensburg Road North Canton, OH 44720
JOB NAME:	E–Studio Suites (J30859EN) Plainfield, IN
	DWG #: 12670(Q–18949)
SHEET NO.: 3 OF 4	PROJECT #: 306113
DRAWN BY: C.R.	DATE: 12/07/2023



SSL EXTRUDED ALUMINUM HATCH SILL

COLUMBIA ELEVATOR

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TITLE:	Aluminum SILL, 1 SP
DWG NO.	12670(Q-18949)
PROJECT NO.	306113
SHEET	4 OF 4
DATE:	12/07/2023
DRAWN BY:	C.R.
CLIENT #:	CANOH

QE4 SPREADER
ATTACH TO STRUTS W/
(4) 5/16" X 1" ZINC CARRIAGE BOLT
(4) 5/16" WIZ NUT

QE4 HEADER STEADY BRACKET
ATTACH TO SPREADER W/
(2) 5/16" X 1" ZINC CARRIAGE BOLT
(2) 5/16" WIZ NUT

QE4 HEADER
ATTACH TO STRUT W/
(4) 5/16" X 1" ZINC CARRIAGE BOLT
(4) 5/16" WIZ NUT

(4) WALL BRACKET
ATTACH EACH TO STRUT W/
(2) 5/16" X 1" ZINC CARRIAGE BOLT
(2) 5/16" WIZ NUT
ATTACH TO WALL W/
(3) 3/8" X 3" POWER STUD (ANCHOR)
(3) 3/8" NUT

LOBBY VIEW

SPECIAL FASCIA SUPPORT (B)

CAUTION
DO NOT OVERTIGHTEN THE BOLTS. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DEFORMING THE HEAD JAMB, WHICH IS NOT COVERED UNDER WARRANTY. TIGHTEN ALL BOLTS FINGER TIGHT. THEN TIGHTEN AN ADDITIONAL ¾ TO 1 TURN.

(IF DISTANCE BETWEEN FLOORS IS MORE THAN 120")

ATTACH ANGLE TO FASCIA W/
(4) #10 X 5/8" HEX SELF TAPPING SCREW
ATTACH BRACKET TO ANGLE W/
(4) 5/16" X 1" CARRIAGE BOLT
(4) 5/16" HEX KEP NUT
ATTACH TO MASONRY WALL W/
(4) 1/4" X 1 1/4" DRIVE-IN #2814
ATTACH TO DRYWALL WALL W/
(4) 1/4"-20 X 3" D-WALL TOGGLE ANCHOR W/NUT & WASHER

DOOR BUMPER

STRUT KNEE
ATTACH EACH TO SLAB W/
(2) 3/8" X 3" POWER STUD (ANCHOR)
(2) 3/8" NUT
ATTACH EACH TO STRUT W/
(2) 5/16" X 1" CARRIAGE BOLT
(2) 5/16" WIZ NUT

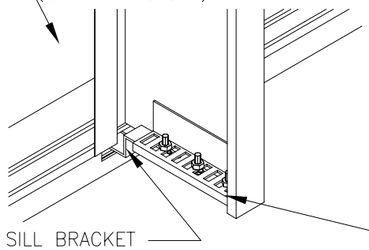
QE4 GROUT RETAINER
ATTACH TO SILL SUPPORT W/
(3) 5/16"-18 X 3/4" WIZ HEAD BOLTS
ATTACH TO WALL W/
(3) 3/8" X 3" POWER STUD (ANCHOR)
(2) 3/8" NUT

QE4 WIRE CHANNEL
ATTACH EACH TO WALL BRACKET
(2) 5/16" X 1" ZINC CARRIAGE BOLT
(2) 5/16" WIZ NUTS
(IF REQUIRED)

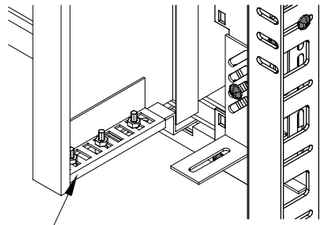
FASCIA SUPPORT ASSEMBLY (A)
ATTACH EACH ASSEMBLY TO FASCIA W/
(2) #10 X 5/8" HEX SELF TAPPING SCREWS
ATTACH TO MASONRY WALL W/
(2) 1/4" X 1 1/4" DRIVE-IN #2814
ATTACH TO DRYWALL WALL W/
(2) 1/4"-20 X 3" D-WALL TOGGLE ANCHOR W/NUT & WASHER

SHAFT VIEW

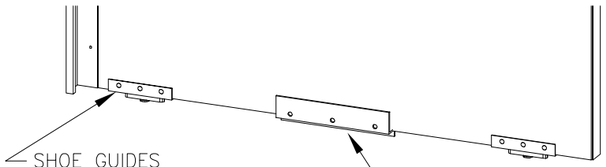
STRIKE POST
ATTACH TO STRUT W/
(3) #10 X 5/8" SELF TAPPING SCREW
(STRUT NOT SHOWN)



SILL BRACKET
FOR ALUMINUM SILLS:
ATTACH EACH TO SILL & SILL SUPPORT W/
(2) 5/16" X 1" SQUARE HEAD BOLT
(2) 5/16" WIZ NUT
FOR OTHER SILL MATERIAL, SEE ADDITIONAL SILL SHEET

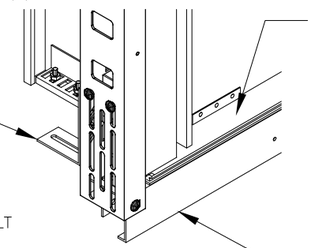


DOOR JAMB
ATTACH EACH TO SILL BRACKET W/
(2) 5/16" X 1" CARRIAGE BOLT
(2) 5/16" WIZ NUT



SHOE GUIDES
ATTACH EACH BRACKET TO DOOR W/
(3) 10-32 X 5/8" UNDERCUT SCREW
ATTACH GIB TO BRACKET W/
(3) 8-32 X 5/8" PH PAN EXT. SEAM
(3) 8-32 BARREL NUT

SAFETY RETAINER
ATTACH EACH TO DOOR W/
(3) 10-32 X 5/8" UNDERCUT SCREW



SILL
FOR ALUMINUM SILLS:
ATTACH EACH TO SILL SUPPORT W/
(6) 5/16" X 1" SQUARE HEAD BOLT
(6) 5/16" WIZ NUT
FOR OTHER SILL MATERIAL, SEE ADDITIONAL SILL SHEET

SHAFT VIEW

QE4 SILL SUPPORT
ATTACH TO QE4 STRUT W/
(4) 5/16" X 1" ZINC CARRIAGE BOLT
(4) 5/16" WIZ NUT
ATTACH TO GROUT RETAINER W/
(3) 5/16"-18 X 3/4" WIZ HEAD BOLTS

NOTE: FASCIA SUPPORTS ARE ONLY REQ'D WHEN FASCIA LENGTHS TOTAL 60" OR MORE. HOLES WOULD HAVE TO BE DRILLED IN FASCIA TO ATTACH SUPPORTS.

HANGER COVER
ATTACH TO SPREADER W/
(2) 5/16" X 1/2" WAFER HD SCREW

LOBBY VIEW

DOOR BUMPER

FASCIA STARTER
ATTACH TO SILL SUPPORT W/
(2) 5/16" X 1/2" WAFER HD SCREW

FASCIA
(HANGS ON FASCIA STARTER AND SECURE IT WITH)
(2) #10 X 5/8" HWH SELF DRILLING SCREWS

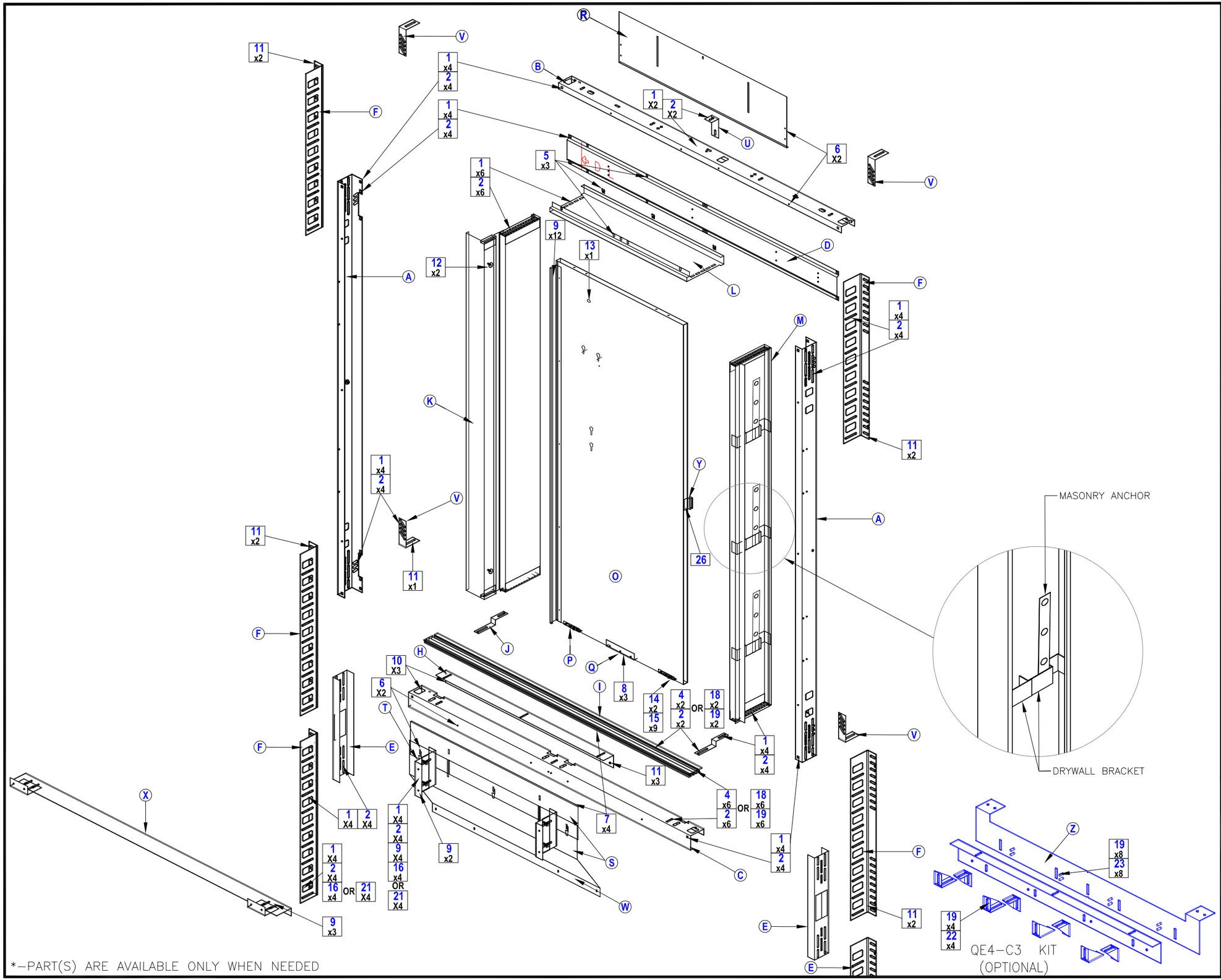
FASCIA STARTER TO SILL
(4) #12 X 7/16"
PHILIPS PAN HEAD S C SCREW

TOE GUARD
ATTACH TO WALL W/
(3) 1/4" X 1 1/4" DRIVE-IN SCREW

COLUMBIA ELEVATOR

SSP RIGHT HAND ASSEMBLY DRAWING – QE4

DATE:	5/5/2022	DWG. #:	1 OF 3
DRAWN BY:	HK	REVISED BY:	AR



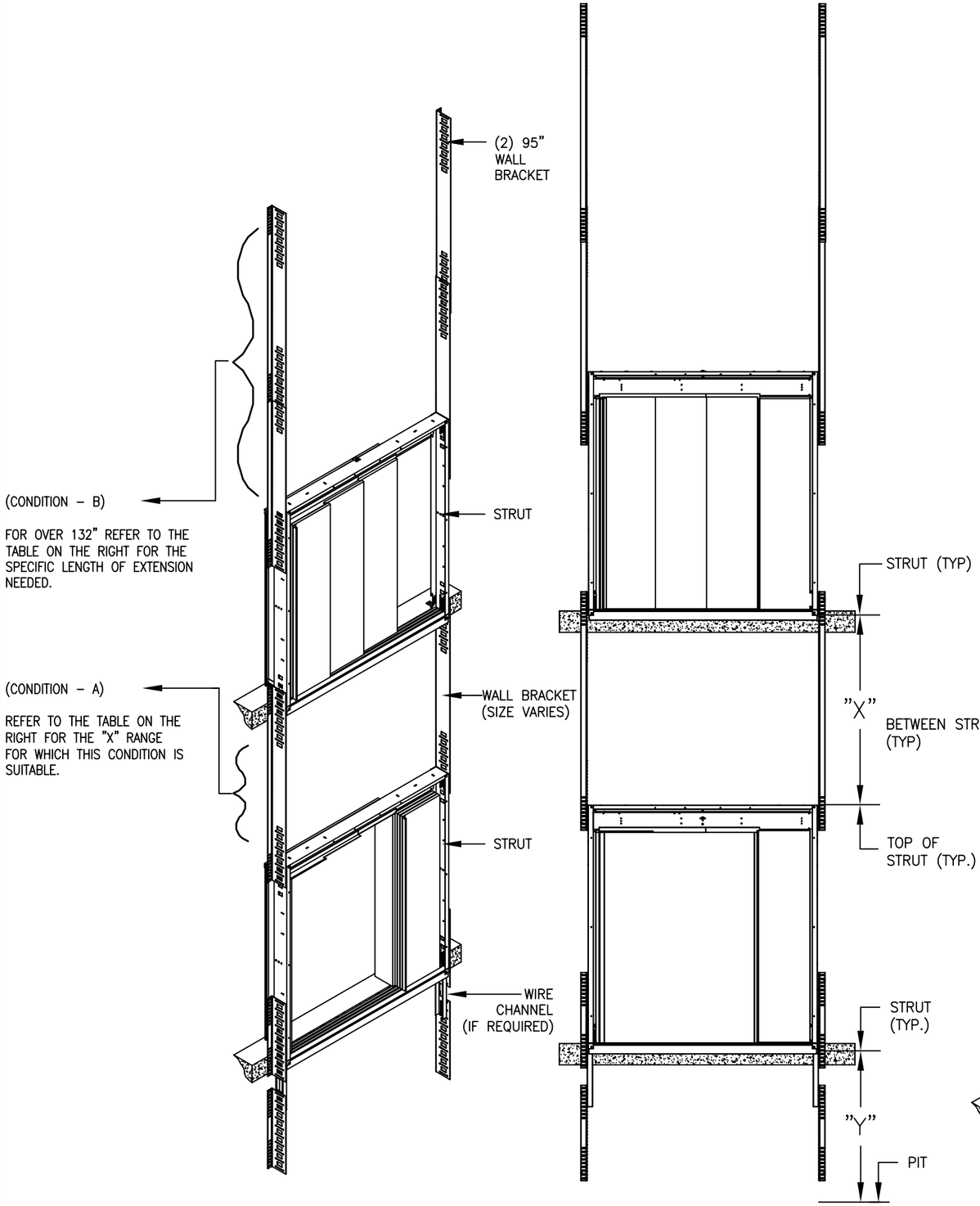
ITEM #	PART DESCRIPTION
A	QE4 STRUT
B	QE4 SPREADER
C	QE4 SILL SUPPORT
D	QE4 HEADER
E	**QE4 WIRE CHANNEL (IR REQUIRED)
F	WALL BRACKET
G	-- --
H	GROUT RETAINER
I	SILL
J	SILL BRACKET
K	***STRIKE POST
L	QE4 HEAD JAMB
M	RETURN POST
N	***QE4 SOFFIT
O	DOOR W/ SIGHT GUARD
P	SHOE GUIDE
Q	SAFETY RETAINER
R	HANGER COVER
S	FASCIA
T	*** FASCIA SUPPORT BRACKET TYPE (A)
U	QE4 HEADER STEADY BRACKET
V	STRUT KNEE
W	TOE GUARD / DUST COVER
X	*** FASCIA SUPPORT ANGLE/BRACKET TYPE (B)
Y	*** FIRE STOP
Z	C3 KIT: PLATE, GROUT RETAINER, BRACKETS A & B

ITEM #	HARDWARE DESCRIPTION
1	5/16" X 1" ZINC CARRIAGE BOLT
2	5/16" WIZ NUT
3	0.7" SQUARE WASHER
4	5/16" X 1" SQUARE HEAD BOLT & WIZ NUT
5	1/4"-20 X 3/4" BOLTS & "U" NUTS CLIP
6	5/16" X 1/2" WAFER HEAD ZP
7	#12 X 7/16" PHILIPS PAN HEAD S M SCREWS
8	#10-32 x 1/2" UNDERCUT MACHINE SCREWS
9	#10 x 5/8" HWH SELF TAPPING SCREW
10	5/16"-18 X 3/4" WIZ HEAD BOLTS
11	3/8" X 3" WEDGE ANCHOR REDHEAD WS 3830
12	RUBBER BUMPER
13	ALUMINUM ESCUTCHEON & SPRING RETAINER CLIP
14	PLASTIC GUIDE
15	#8-32 X 5/8" HEX NUT
16	1/4" X 1 1/4" DRIVE-IN #2814 (FOR MASONRY)
17	
18	3/8" X 1 SQUARE HEAD BOLT
19	3/8" WIZ NUT
21	1/4" X 20 X 3" TOGGLE ANCHOR W/NUTS & WASHER
22	3/8" X 1 CARRIAGE BOLT W/ NUT
23	3/8" X 1 CLINCH STUDS
24	-----
25	-----
26	***1/4"-20 X 3/4" BOLTS (2 PER CLIPS)

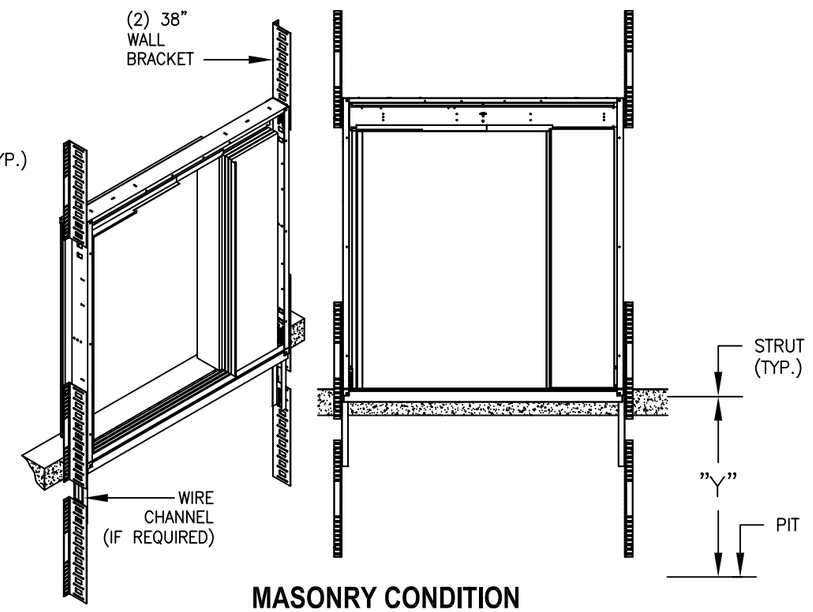
COLUMBIA ELEVATOR

SSP RIGHT HAND EXPLODED DRAWING - QE4

DATE:	5/5/2022	DWG. #:	2 OF 3
DRAWN BY:	HK	REVISED BY:	AR



DRYWALL CONDITION



MASONRY CONDITION

STRUCTURAL SUPPORT TABLE (IN BETWEEN FLOORS) (DRYWALL ONLY)						(MASONRY ONLY)
DISTANCE (X)	WALL BRACKET 95"	WALL BRACKET 77"	WALL BRACKET 58"	WALL BRACKET 38"	STRUT KNEE	WALL BRACKET 38"
LESS THAN 38.1"	–	–	–	2	4	4
38.1 UP TO 58"	–	–	2	–	4	4
58.1" UP TO 77"	–	2	–	–	4	4
77.1" UP TO 95"	2	–	–	–	4	4
95.1" UP TO 132"	2	–	–	2	4	4
GREATER THAN 132.1"	4	–	–	–	4	4

CONDITION – A

CONDITION – B

STRUCTURAL SUPPORT TABLE (PIT TO FIRST LANDING)						
PIT DEPTH DISTANCE (Y)				WALL BRACKET (38")		WALL BRACKET (38")
ANY DISTANCE	–	–	–	4 & 2 WIRE CHANNEL	–	4 & 2 WIRE CHANNEL

STRUCTURAL PARTS PROVIDED FOR EVERY ENTRANCE ASSEMBLY:

(1) GROUT RETAINER
(1) SILL SUPPORT
(1) SPREADER
(1) HEADER
(2) STRUTS
(4) STRUT KNEES
(X) WALL BRACKETS "X" SEE CHART

STRUCTURAL PARTS PROVIDED AT PIT:

(4) WALL BRACKETS
(2) WIRE CHANELS

COLUMBIA ELEVATOR

STRUCTURAL SUPPORT INSTALLATION – QE4

DATE:	9/11/2019	DWG. #:	3 OF 3
DRAWN BY:	HK	REVISED BY:	AR