



KAUA'I VETERANS MEMORIAL HOSPITAL
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HAWAII HEALTH SYSTEMS CORPORATION

KAUA'I REGION

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SAMUEL MAHELONA MEMORIAL HOSPITAL
4800 Kawaihau Rd, Kapa'a, HI 96746
(808) 822-4961

ADDENDUM #2

August 29, 2024

TO: Potential Offerors

FROM: Maia Guirao, Contract Manager

RE: Solicitation Addendum #2 to RFP #25-01/KVMH Emergency Department Renovation, Phase 3

This correspondence serves as Addendum #2 to the subject Request for Proposals ("RFP"). Your response to this RFP should be governed by the content of the original RFP and the revisions/corrections/additions/clarifications provided in this addendum notice.

The following questions were asked:

1. Q: On sheet C1.0 there is a line calling out of the limits of grading at the 35.00 mark noting "LIMITS OF GRADING AND NEW A.C. PAVEMENT". Is all the pavement to the west of the 35.00 mark on new 8" base course and pavement east of the 35.00 mark on re-compacted base course?
A: This is correct.
2. Q: On sheet A010 Waiting Room elevation 2 indicates that the northern wall will match the southern walls existing wall protection and chair rail. If available, please provide the specifications and manufacturer info for those materials.
A: Chair Rail: Inpro 1600 Crash Rail. Color: cChamois 0234, Pebbelette Finish. Wall Protection: Inpro Palladium Rigid Sheet. Color: Smooth Bronze 5E027.
3. Q: On sheet M011 the plumbing plan shows the walls surrounding the drinking fountains in the existing lobby/waiting room are set up differently then what is shown on the Sheet A003. Which plan would be best to follow:
A: Please follow the layout on Sheet A003.
4. Q: Are the Exam Lights OFCI, OFOI, or CFCI? Please provide manufacturer specs.
A: The exam lights are owner furnished, owner installed. Furnishing and installing the above ceiling light support shown on Detail 1/A013 is to be included in bid amount. Exam light to be Steris HarmonyAIR or equal. (See attached).

5. Q: Electrical Lighting Plan E003 sheet shows a 2A light fixture in the Doctor's Charting Room, but there is no 2A light fixture called out on the Luminaire Schedule. Please provide light fixture type specifications.

A: Light fixture "2A" is a typo. Light fixture to be Type "2E".

6. Q: Can we leave any unused or abandoned waste lines in place, or do they need to be saw cut out of concrete excavated and fully removed? Some locations can be capped on the ends without saw cutting, excavation and pouring back new concrete.

A: It is acceptable to cut and cap unused and abandoned waste lines that occur in concrete walls and slabs not scheduled for demolition. Caps are to be flush with existing concrete face so as not to interfere with any new finishes.

7. Q: Louvered penthouse on roof sheet M010; need elevation heights, louver size; detail shown on A004.1 detail 3 typical but lacking overall height of penthouse. Please provide more detail.

A: See attached catalog cut of Greenheck Penthouse unit.

8. Q: Please provide a complete specification for the Aluminum windows and a specification for the Glazing.

A: See attached Section 9F – Aluminum Windows

9. Q: Are Windows W2 and W3 the same size?

A: Yes.

10. Q: Please provide a specification for the Bullet Resistant Window (W1).

A: See attachment for Armortex window.

For all the things you
see in a day

HarmonyAIR® A-Series Surgical Lighting System

The new HarmonyAIR™ A-Series Surgical Lighting System provides meaningful, clinician-inspired advances to keep up with life in today's OR. Through thoughtful innovation, this future-ready system offers superior optical performance, laminar airflow design, and suspension that operates for up to 5+ years without adjustment. It is simply an ingenious solution that minimizes distractions and maximizes precious time for the surgical team.

Redefine optical performance

Automatically maintains constant light intensity when the light is adjusted or moved during a procedure

Designed for optimal airflow

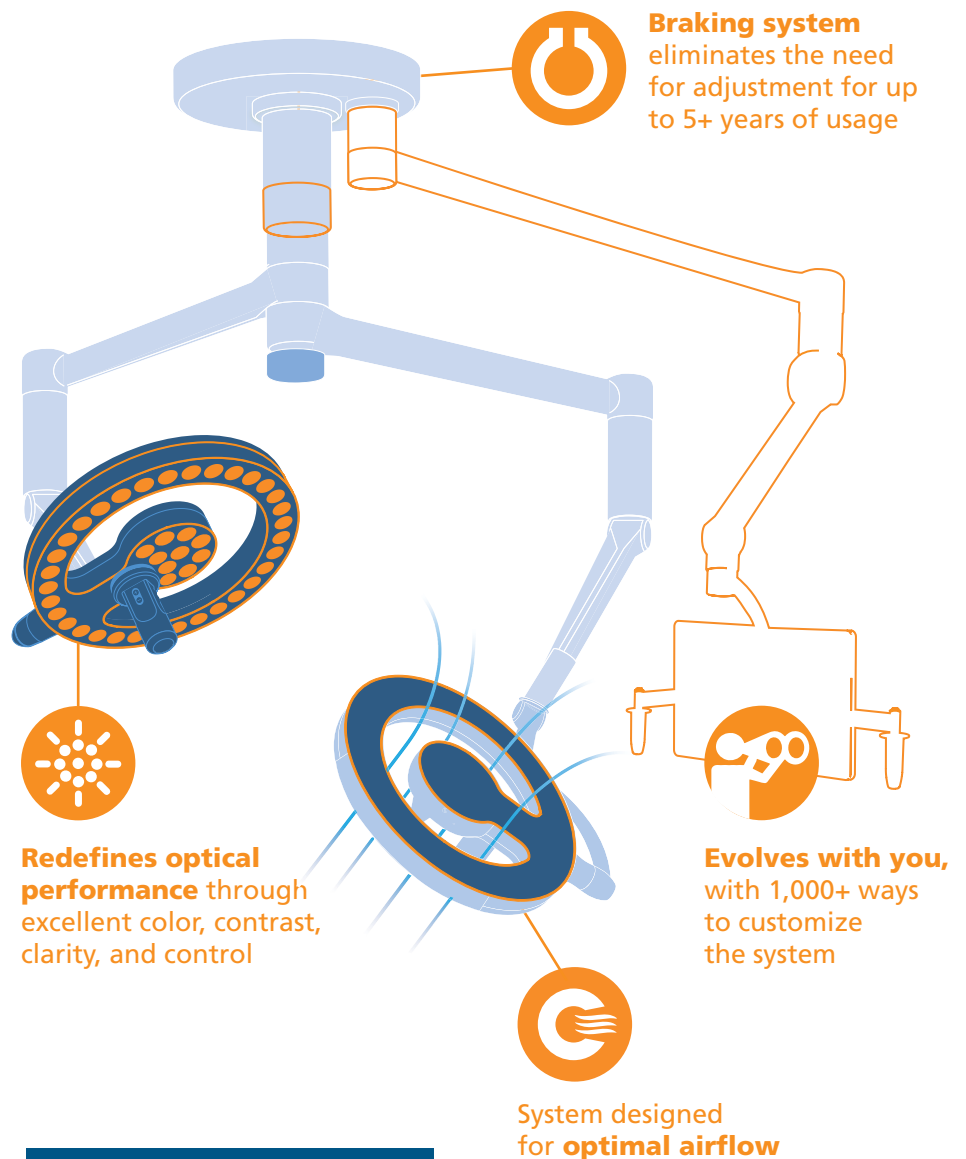
Allows unobstructed flow of clean air through the lighthead to dissipate accumulated heat and surgical smoke

A suspension you will love to forget

Patent-pending continuous braking system that eliminates the need for adjustment for up to 5+ years of usage

Future-ready

1,000+ ways to customize the system today or in the future



**110+ YEARS
EXPERIENCE**

Technical specifications

Technical information

Typical performance

		Small pattern	Large pattern
Maximum central illuminance	AI off*	(6.3") 160 klx	(10") 80 klx (11.8") 45 klx
	AI on*	(6.3") 160 klx	(10") 144 klx (11.8") 90 klx
Peak total irradiance	AI off*	580 W/m ²	165 W/m ²
	AI on*	580 W/m ²	330 W/m ²
Depth of illumination (to 60%)		> 67 cm	> 80 cm
Pattern size (d10)		16 cm	30 cm
d50 (percentage of d10)		58%	65%
Color temperature		4400 K	
General color rendering index (CRI)		Up to 97	
Deep saturated red color rendering index (R9)		Up to 98	
LED life		60,000 hours	

*AI refers to the auto-intensity feature, which can be turned off or on.

Feature

Information

Braking system	Patent-pending brake ring
Braking performance	Up to 5+ years without adjustment
Expandable system	Up to two auxiliary arms
Auxiliary arm options	Lighthead (camera ready or non-camera ready), ConnectPoint®, all-power ConnectPoint®, single monitor, dual monitor, radiation shield, FREE5® camera system
Laminar airflow design	Lighthead and suspension system
Ingress protection rating	Dust and fluid ingress protection rating of IP42
Lighthead accent light ring	Included
Ceiling-based ambient light	Optional

HarmonyAIR®
Surgical Lights

For more information, contact your STERIS representative or visit www.steris.com

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 **STERIS**

5960 Heisley Road
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Standard Construction

Frame	Heavy gauge extruded 6063-T5 aluminum, 6 in. (152 mm) x 0.081 in. (2 mm) nominal wall thickness
Blades	Drainable style blade, heavy gauge extruded 6063-T5 aluminum, 0.081 in. (2 mm) nominal wall thickness, positioned on approximately 4 in. (102 mm) centers
Construction	Welded
Finish	Mill
Minimum Throat Size	12 in. W x 12 in. L (305 mm W x 305 mm L)
Maximum Throat Size	84 in. W x 108 in. L (2134 mm W x 2743 mm L)
Minimum Louver Height	12 in. (305 mm)
Minimum Louver Height	84 in. (2134 mm)
Wind Load	+/- 115 PSF (5.5 kPa)



Application and Design

ESD-635PD is a gravity intake or exhaust louvered penthouse. Model ESD-635PD incorporates high performance horizontal drainable style blades. Meets the performance requirements established by the Florida Building Code and Miami-Dade County. Tested in accordance with and passes TAS 201 (Large Missile Impact), TAS 202 (Uniform Static Air Pressure) and TAS 203 (Cyclic Wind-Loading). This system should be installed in a location where the enclosed area/room inside the penthouse is designed to drain water penetrating into the area/room, and the area/room will house water resistant/proof equipment, components and/or supplies. Roof curbs specifically designed for model ESD-635PD may be supplied by Greenheck as an option. Qualified for installation onto concrete/masonry, steel stud, structural steel or wood substrate. Model ESD-635PD may also be supplied as an equipment enclosure without hood members.

Document Links

[Louver Finishes & Colors](#)
[Louver Product Selection Guide](#)
[Louver Products Catalog](#)
[Louver Warranty Statement](#)

Options and Accessories

- [Bird Screen](#)
- [Blank-off Panels](#)
- Dampers
 - Maximum throat width or length not to exceed 77 in. (1955mm) with optional damper(s)
- [Filter Rack/Filter](#)
- Hood Insulation - only available if mill finish
- [Insect Screen](#)
- Roof Curb - flat or pitched
- [Security Bars](#)
- [Variety of Architectural Finishes](#)

Product Details

[Miami-Dade County, FL Notice of Acceptance](#)

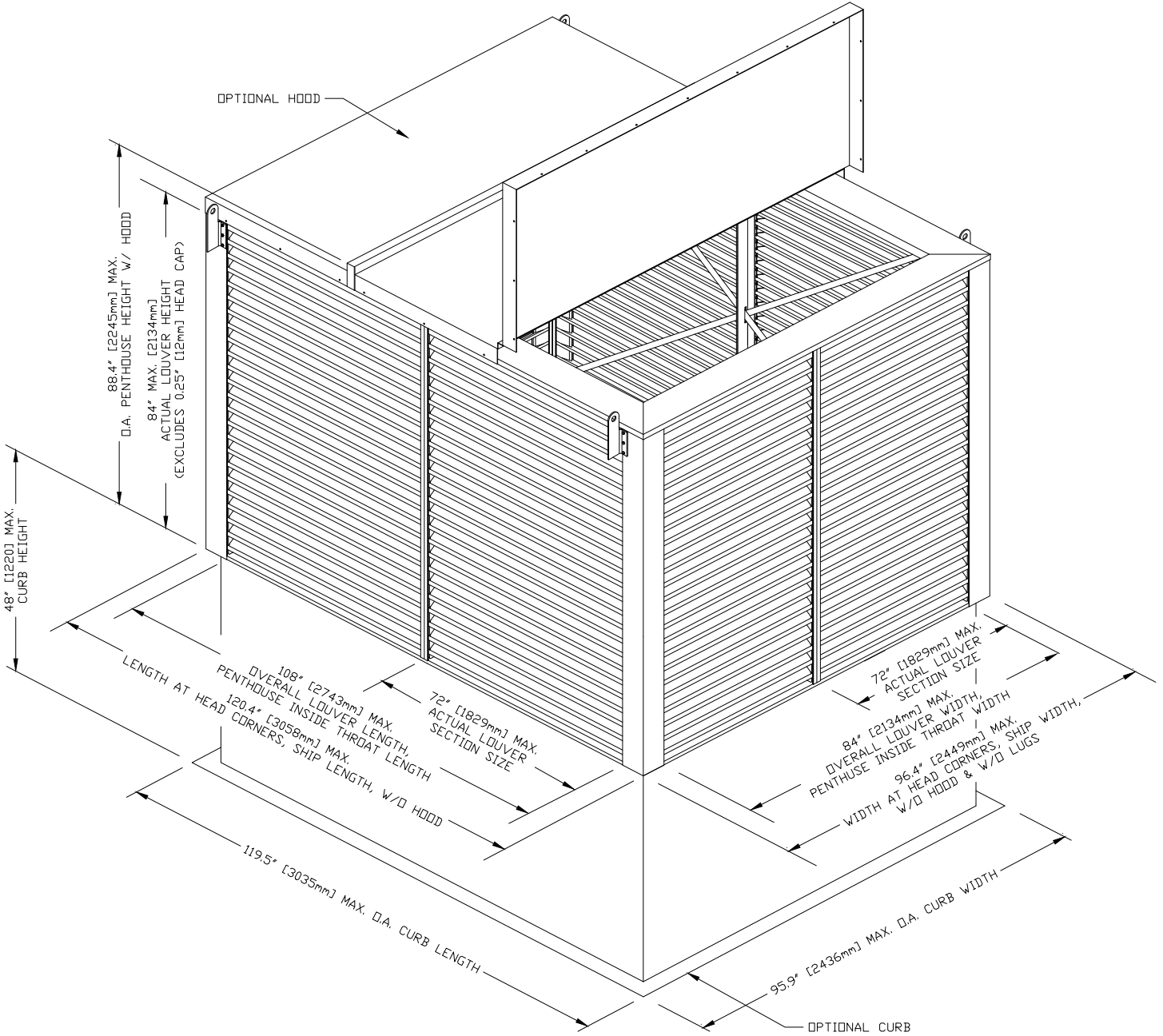
PERFORMANCE DATA

ESD-635PD

Miami-Dade and Florida Product Approved
Extruded Aluminum, Louvered Penthouse

Performance data shown herein is a result of in-house airflow resistance testing procedures in an AMCA Accredited Laboratory. The static pressure drops shown at given throat velocities include the pressure drop through the throat of the product as well as through the louvers themselves. The recommended height shown herein allows for equal to or greater than effective louver free area to that of the penthouse inside throat area. Increasing the product height will have minimal affect on the static pressure drop. The static pressure drops shown do not include the effects of bird screen, insect screen or any other appurtenance.

Throat W x L in. mm	Recommended Louver Height in. mm	Louver Throat Area sq. ft. sq. m	Intake CFM CMS			Exhaust CFM CMS			
			Pressure Drop in. wg kPa			Pressure Drop in. wg kPa			
			0.078	0.117	0.312	0.034	0.078	0.138	0.215
			0.019	0.029	0.078	0.008	0.019	0.034	0.054
			Intake Throat Velocities			Exhaust Throat Velocities			
			400 fpm 0.189 mps	600 fpm 0.283 mps	800 fpm 0.378 mps	400 fpm 0.189 mps	600 fpm 0.283 mps	800 fpm 0.378 mps	1000 fpm 0.472 mps
12 x 12 305 x 305	12 305	0.8 0.07	320 0.15	480 0.23	640 0.30	320 0.15	480 0.23	640 0.30	800 0.38
12 x 24 305 x 610	16 406	1.8 0.17	720 0.34	1,080 0.51	1,440 0.68	720 0.34	1,080 0.51	1,440 0.68	1,800 0.85
24 x 24 610 x 610	16 406	3.7 0.34	1,480 0.70	2,220 1.05	2,960 1.40	1,480 0.70	2,220 1.05	2,960 1.40	3,700 1.75
24 x 48 610 x 1219	20 508	7.5 0.70	3,000 1.42	4,500 2.12	6,000 2.83	3,000 1.42	4,500 2.12	6,000 2.83	7,500 3.54
36 x 36 914 x 914	20 508	8.5 0.79	3,400 1.60	5,100 2.41	6,800 3.21	3,400 1.60	5,100 2.41	6,800 3.21	8,500 4.01
36 x 72 914 x 1829	24 610	17.3 1.61	6,920 3.27	10,380 4.90	13,840 6.53	6,920 3.27	10,380 4.90	13,840 6.53	17,300 8.16
48 x 48 1219 x 1219	24 610	15.3 1.42	6,120 2.89	9,180 4.33	12,240 5.78	6,120 2.89	9,180 4.33	12,240 5.78	15,300 7.22
48 x 96 1219 x 2438	32 813	31.0 2.88	12,400 5.85	18,600 8.78	24,800 11.70	12,400 5.85	18,600 8.78	24,800 11.70	31,000 14.63
60 x 60 1524 x 1524	28 711	24.2 2.25	9,680 4.57	14,520 6.85	19,360 9.14	9,680 4.57	14,520 6.85	19,360 9.14	24,200 11.42
60 x 108 1524 x 2743	36 914	43.8 4.07	17,520 8.27	26,280 12.40	35,040 16.54	17,520 8.27	26,280 12.40	35,040 16.54	43,800 20.67
72 x 72 1829 x 1829	32 813	35.0 3.25	14,000 6.61	21,000 9.91	28,000 13.21	14,000 6.61	21,000 9.91	28,000 13.21	35,000 16.52
72 x 96 1829 x 2438	40 1016	46.8 4.35	18,720 8.83	28,080 13.25	37,440 17.67	18,720 8.83	28,080 13.25	37,440 17.67	46,800 22.09
84 x 84 2134 x 2134	40 1016	47.8 4.44	19,120 9.02	28,680 13.54	38,240 18.05	19,120 9.02	28,680 13.54	38,240 18.05	47,800 22.56
84 x 96 2134 x 2438	40 1016	54.8 5.09	21,920 10.35	32,880 15.52	43,840 20.69	21,920 10.35	32,880 15.52	43,840 20.69	54,800 25.86
84 x 108 2134 x 2743	44 1118	61.7 5.73	24,680 11.65	37,020 17.47	49,360 23.30	24,680 11.65	37,020 17.47	49,360 23.30	61,700 29.12

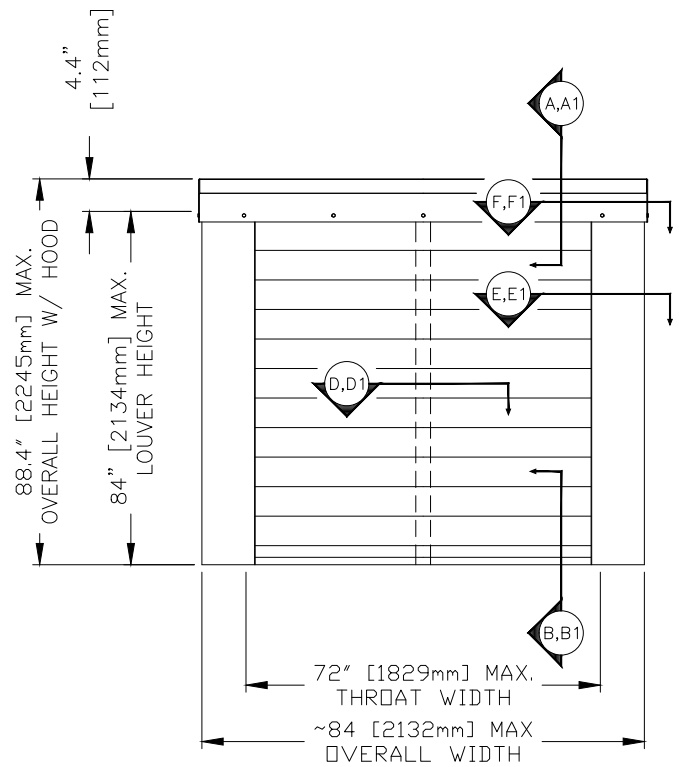
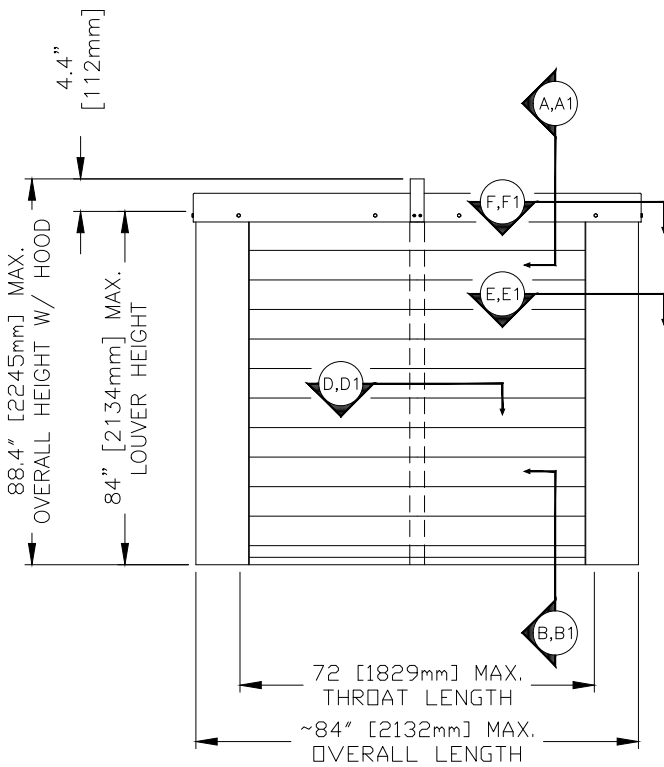
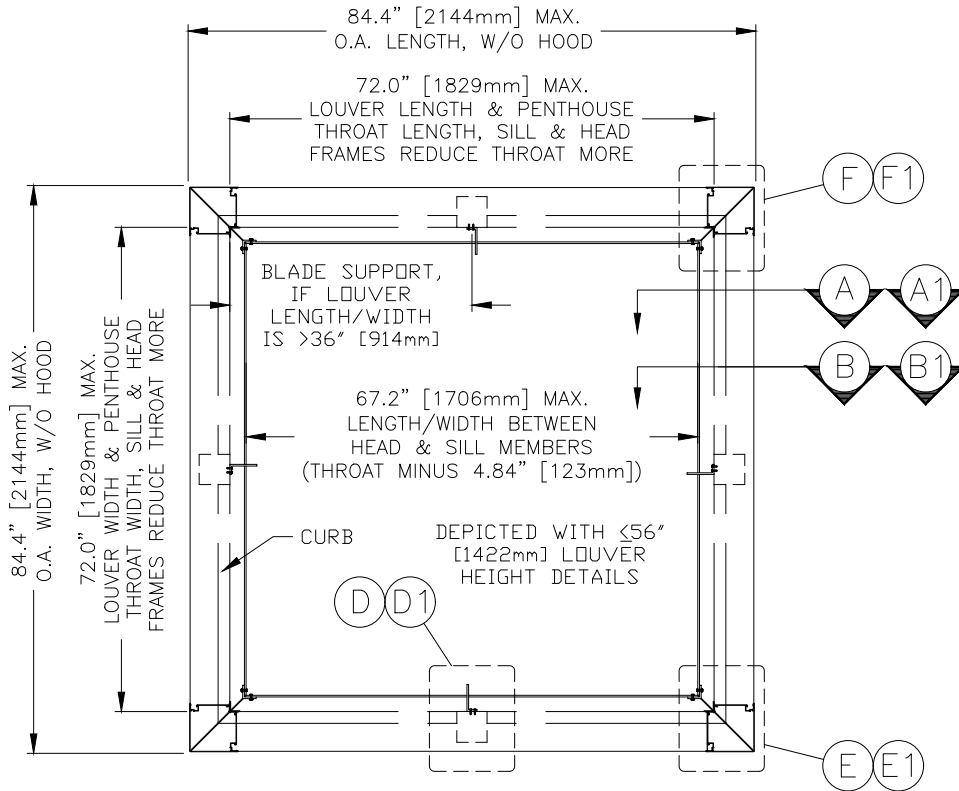


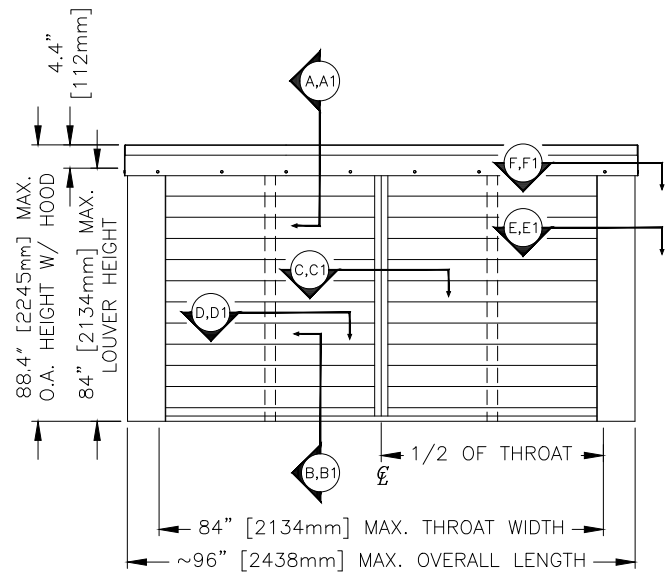
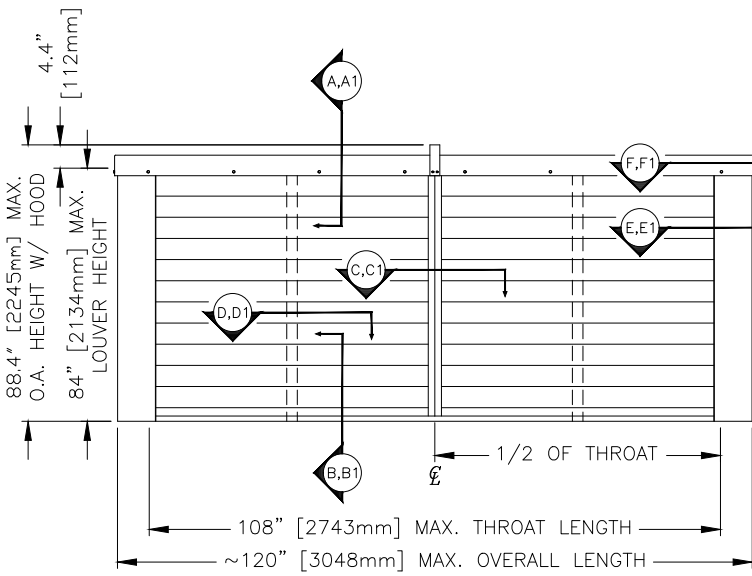
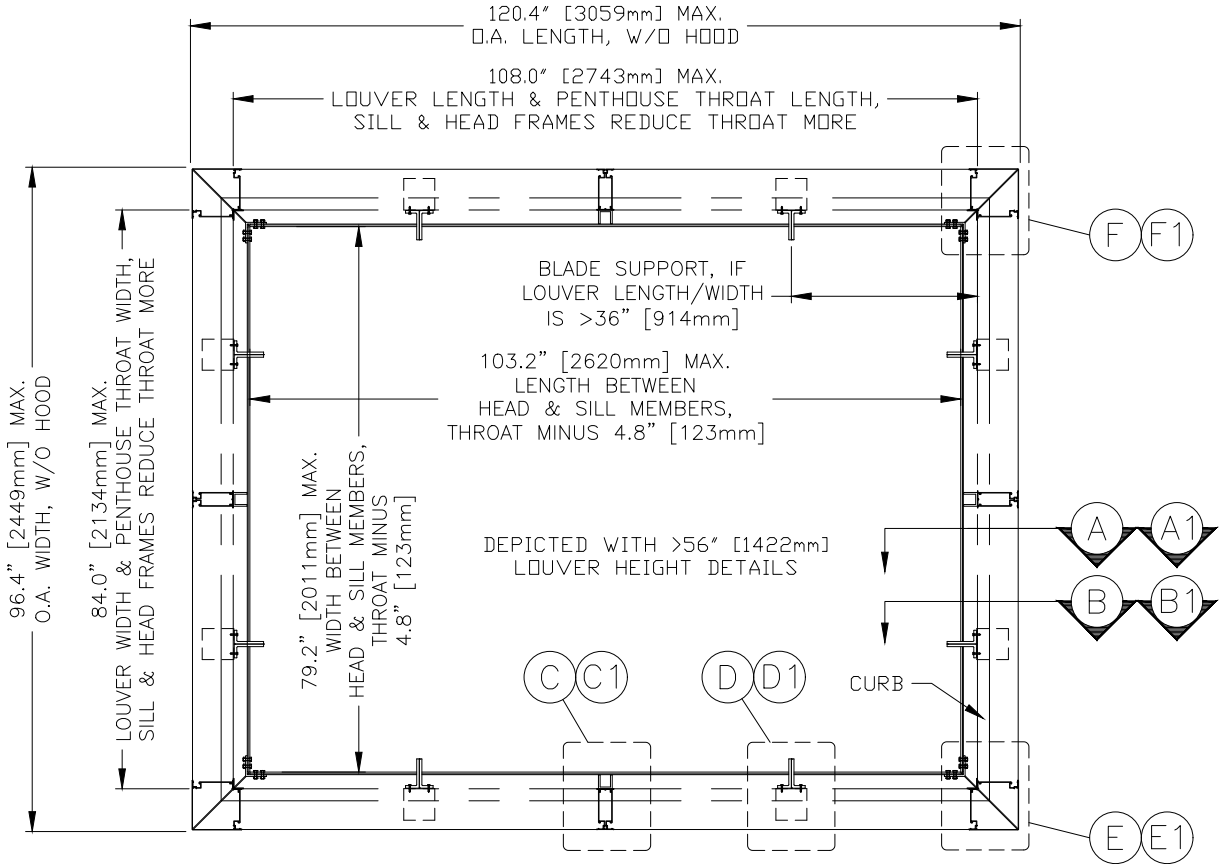
DETAILS

SINGLE SECTION-WITHOUT HOOD

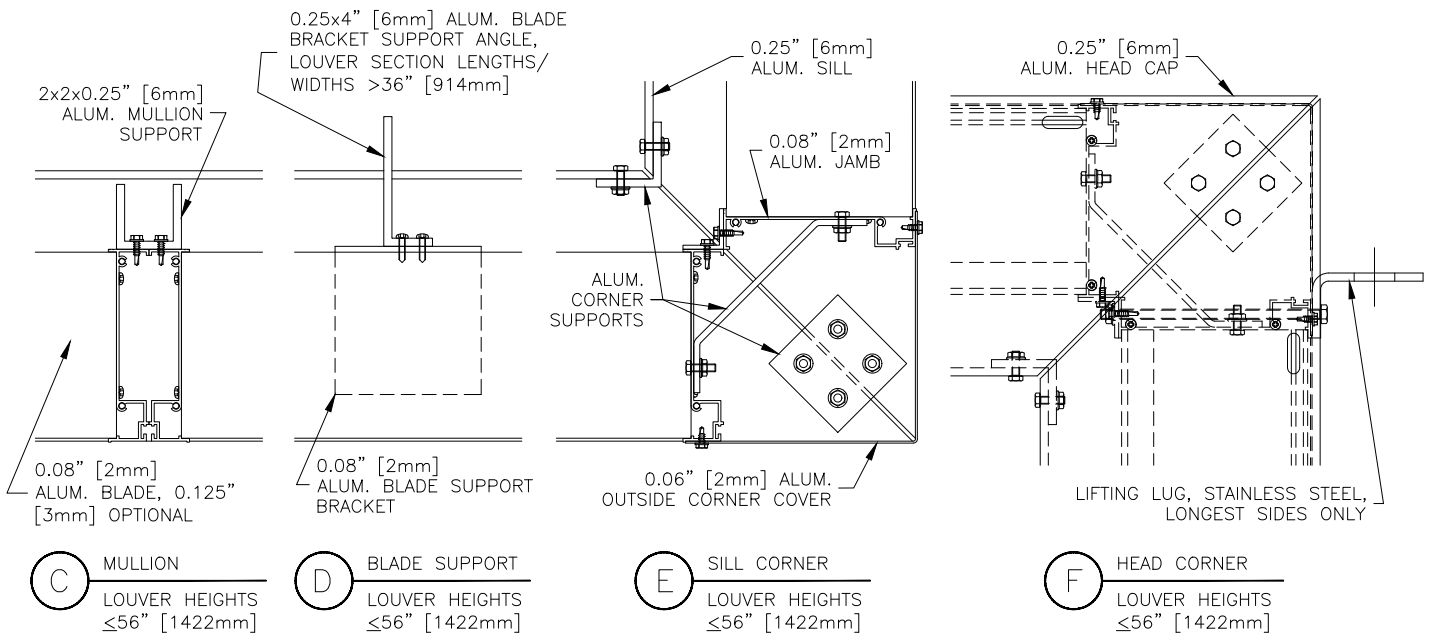
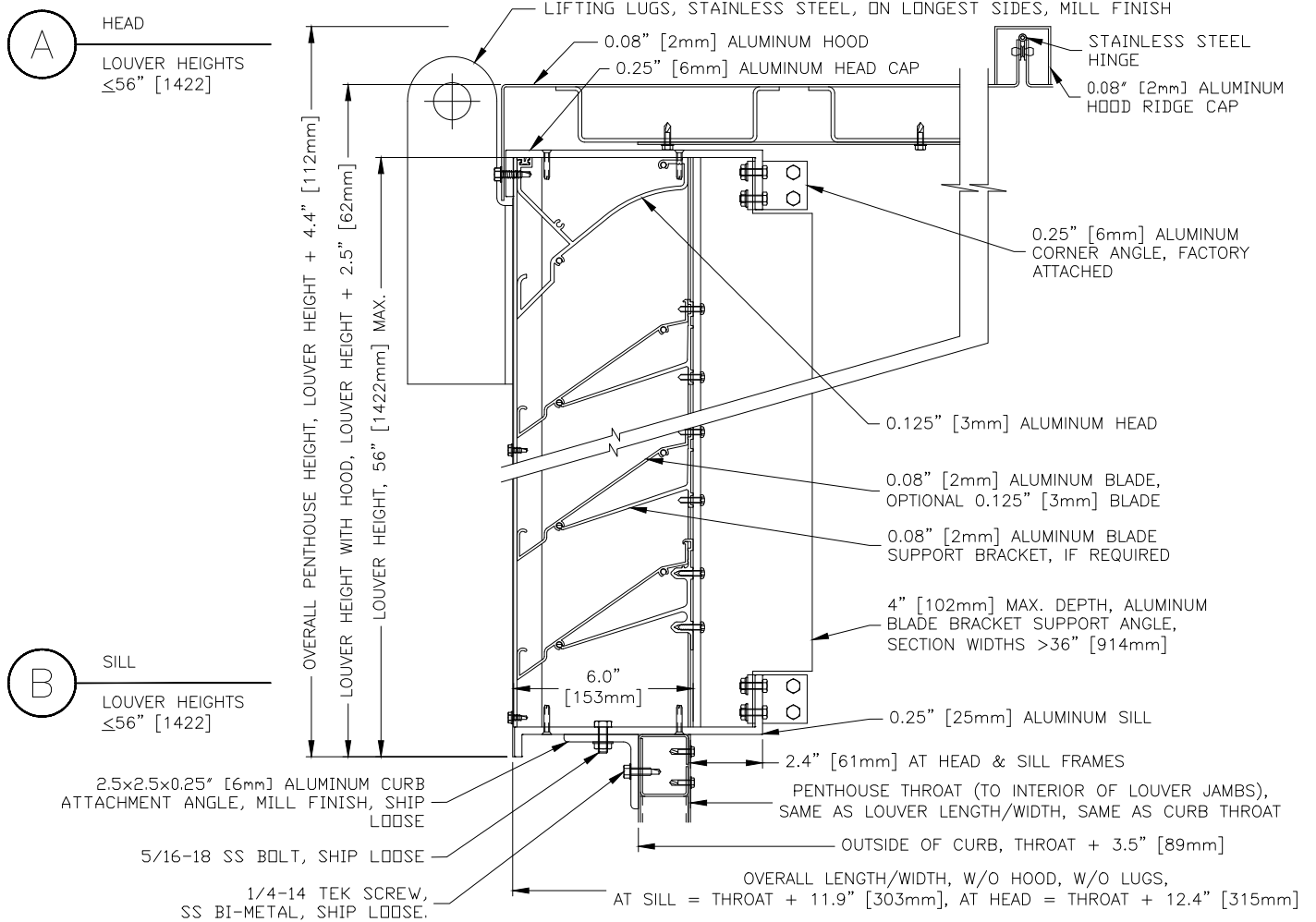
ESD-635PD

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Extruded Aluminum, Louvered Penthouse

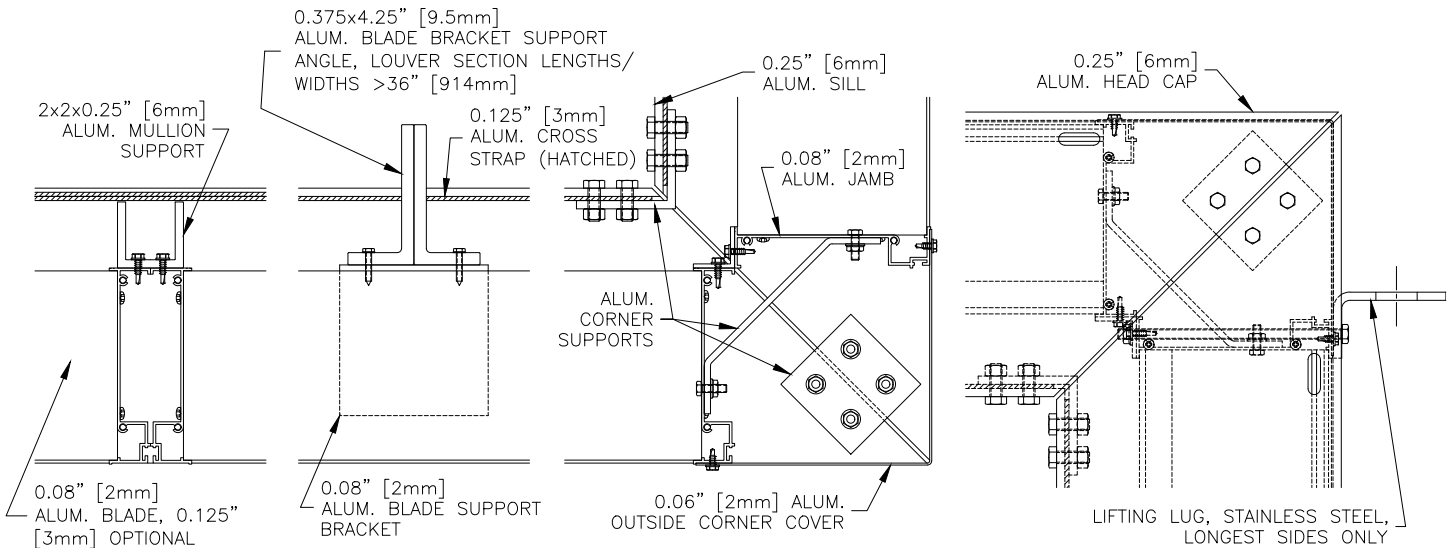
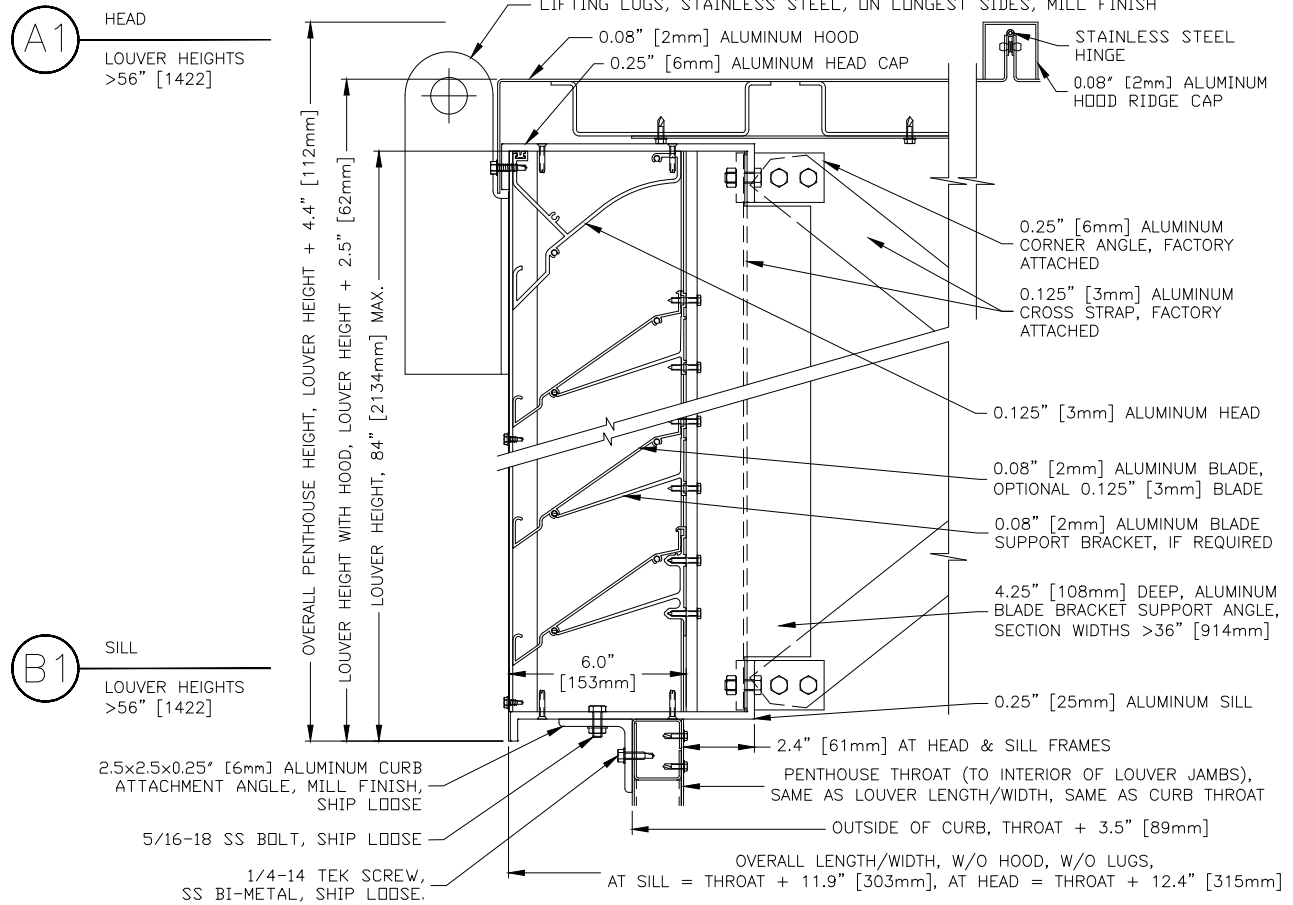




LESS THAN OR EQUAL TO 56 IN. (1142 MM) HEIGHT



GREATER THAN 56 IN. (1142 MM) HEIGHT



C1 MULLION
LOUVER HEIGHTS >56" [1422mm]

D1 BLADE SUPPORT
LOUVER HEIGHTS >56" [1422mm]

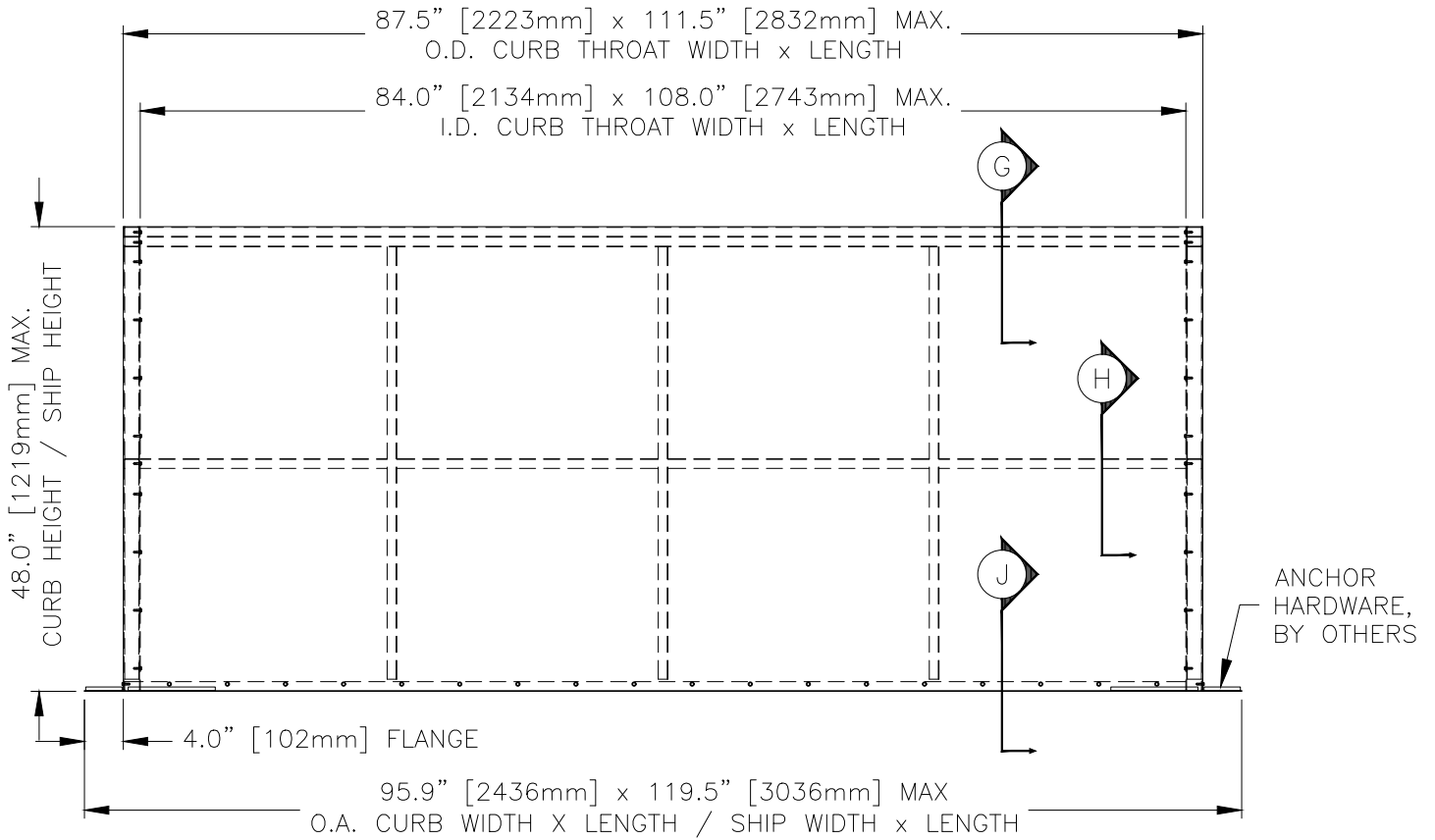
E1 SILL CORNER
LOUVER HEIGHTS >56" [1422mm]

F1 HEAD CORNER
LOUVER HEIGHTS >56" [1422mm]

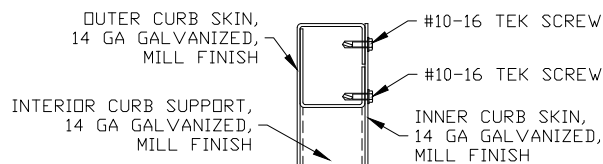
CURB DETAILS

ESD-635PD

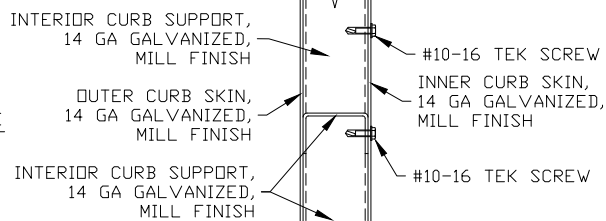
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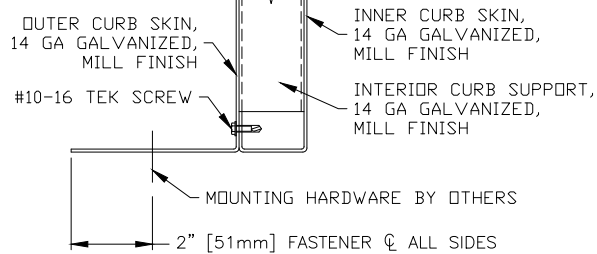
G CURB DETAILS TOP



H CURB DETAILS MIDDLE



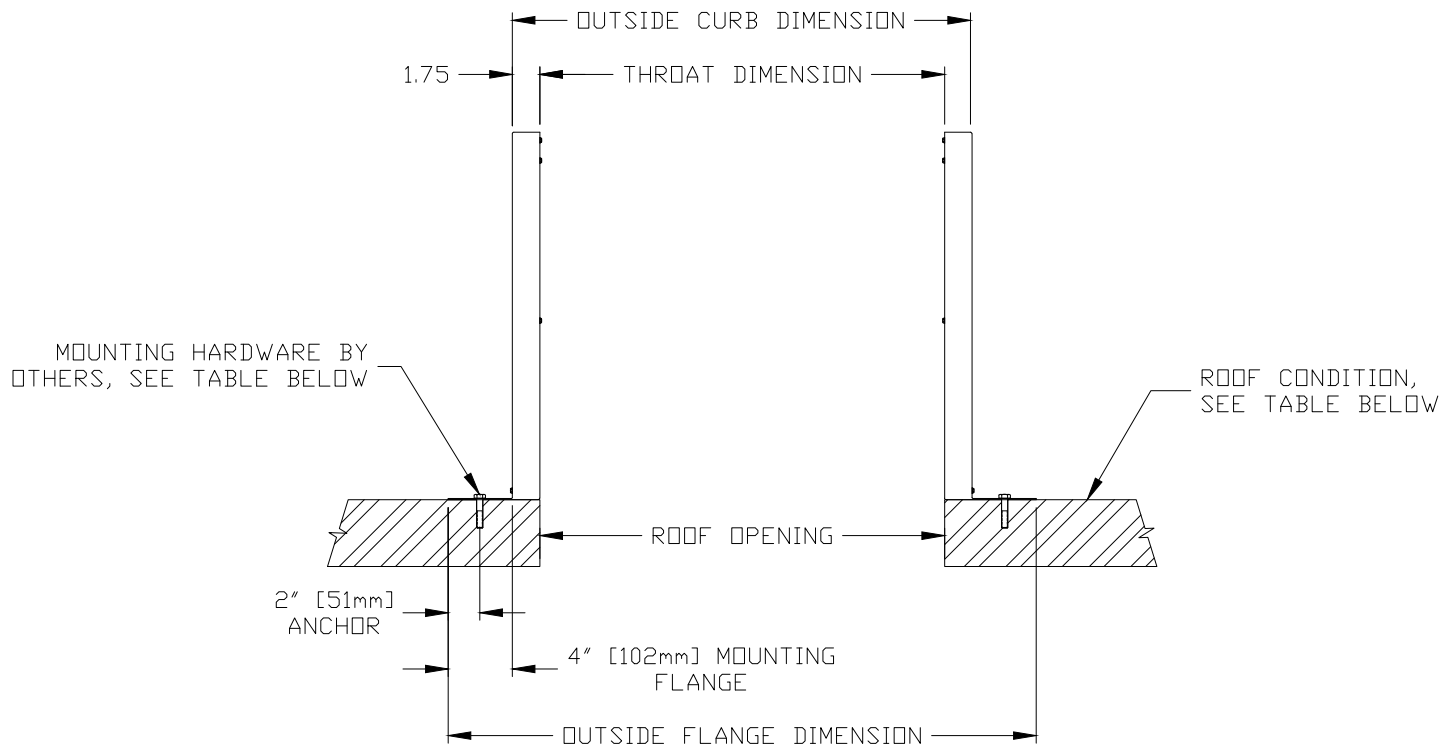
J CURB DETAILS BOTTOM



ROOF OPENING DETAILS

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Extruded Aluminum, Louvered Penthouse

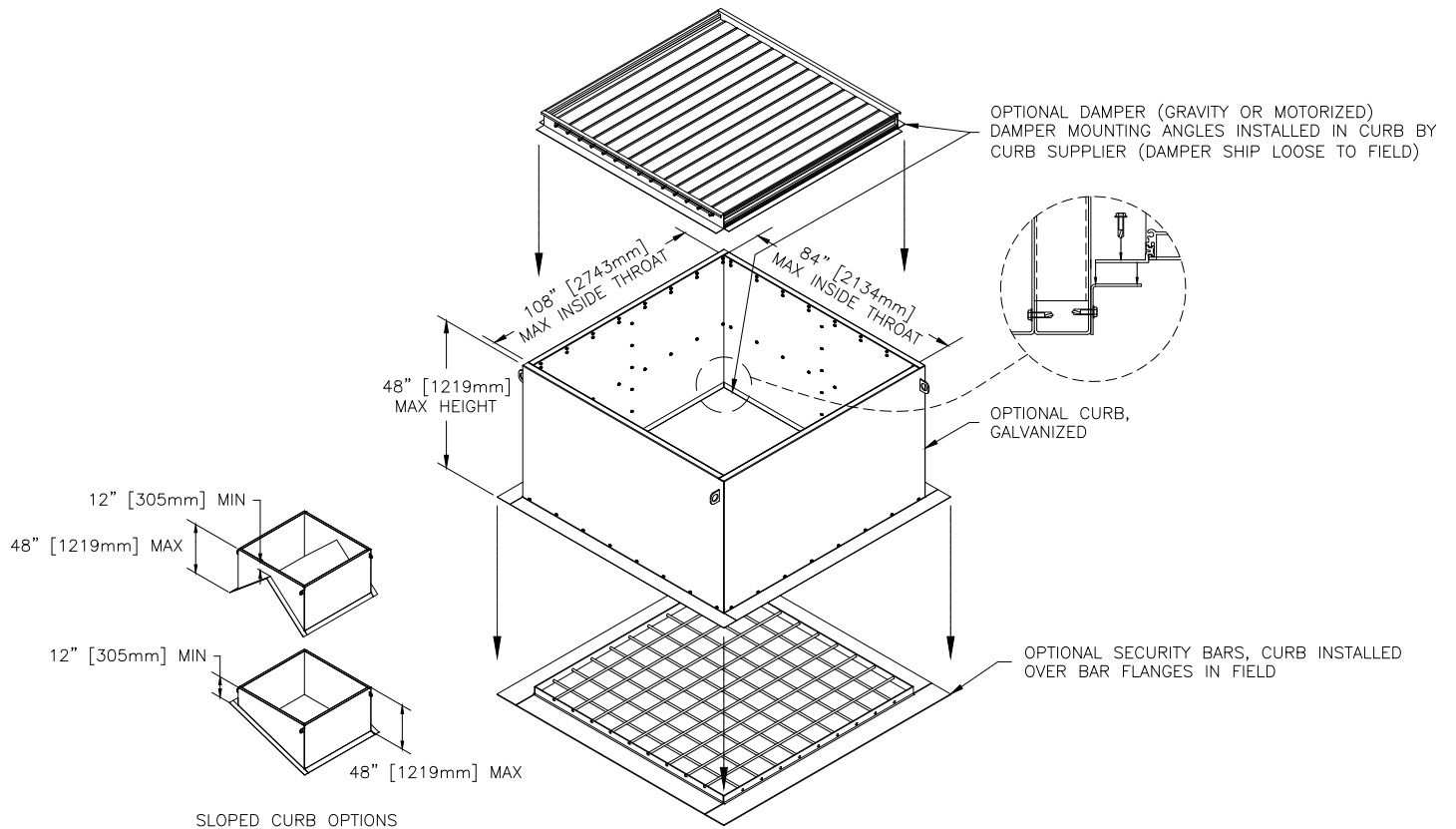


CURB ANCHOR INFORMATION		
SUBSTRATE, MINIMUMS	ANCHOR DESCRIPTION	NOTES
CONCRETE: 4" [102mm] THICK 3 KSI [20.6 MPA] NORMAL WEIGHT CRACKED	HILTI KWIK BOLT TZ2 EXPANSION ANCHOR, 300 SS, 6" [152mm] MAX CENTERS ALONG CURB FLANGE, ϕ 3/8" [10mm] ONLY X MIN LENGTH OF 3" [76mm]	MIN 2.5" NOM. EMBEDMENT, MIN 4.38" [111mm] TO CONCRETE EDGE/END, FULL BEARING REQUIRED UNDER CURB FLANGE, ALSO ACCEPTABLE IS 300 SS THRU-BOLT MIN 3/8-16 WITH MIN 2" [51mm] O.D. BY MIN 0.05" [1.3mm] THICK WASHER AT NUT
	HILTI KWIK BOLT TZ2 EXPANSION ANCHOR, 300 SS, 2 PER CORNER ANCHOR PLATE AT 6" [152mm] MAX CENTERS, ϕ 3/8" [10mm] ONLY X MIN LENGTH OF 3.5" [89mm]	
STEEL: 16 GA [1.6mm] FY 50 KSI [345 MPA] OR 1/8" [3mm] ASTM A3, FY 36 KSI [248 MPA]	ELCO BI-FLEX SELF-DRILLING SCREW, 3" [76mm] MAX CENTERS ALONG CURB FLANGE, MIN 1/4-(14 OR 20) X 1" MIN LENGTH	FULL THREAD ENGAGEMENT, MIN 0.5" [13mm] STEEL EDGE/END, 300 SS HEAD/SHANK WITH COATED STEEL DRILL POINT, FULL BEARING REQUIRED UNDER CURB FLANGE, ALSO ACCEPTABLE IS 300 SS THRU-BOLT MIN 1/4-20 WITH MIN 0.5" [13mm] O.D. BY MIN 0.04" [1mm] THICK WASHER AT NUT
	ELCO BI-FLEX SELF-DRILLING SCREW, 9 PER CORNER ANCHOR PLATE AT 0.75" [19mm] MAX CENTERS, MIN 1/4-(14 OR 20) X 1.5" MIN LENGTH	
WOOD: 3" [76mm] THICKNESS, S.G. 0.042	LAG BOLT, 300 SS, 3" [76mm] MAX CENTERS ALONG CURB FLANGE, MIN ϕ 1/2" X 3" MIN LENGTH	MIN 2" [51mm] THREAD ENGAGEMENT, MIN 2.9" [74mm] PENETRATION, MIN 1.5" [38mm] WOOD EDGE, MIN 2.63" [67mm] WOOD END, FULL BEARING REQUIRED UNDER CURB FLANGE, ALSO ACCEPTABLE IS 300 SS THRU-BOLT MIN 1/2-13 WITH MIN 2" [51mm] O.D. BY MIN 0.05" [1.3mm] THICK WASHER AT NUT
	LAG BOLT, 300 SS, 3 PER CORNER ANCHOR PLATE AT 3" [76mm] MAX CENTERS, MIN ϕ 1/2" X 3.5" MIN LENGTH	

OPTION DRAWINGS

ESD-635PD

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Extruded Aluminum, Louvered Penthouse



Weather Infiltration Disclosure

Louvered penthouses provide a level of defense against weather infiltration, however; louvered penthouses cannot be considered weather proof. Greenheck recommends provisions to manage weather infiltration be present beyond the louvered penthouse so as to mitigate weather passage and prevent water related damage to building conditions or equipment. Design of or materials as required to manage weather infiltration are not provided by Greenheck. Greenheck also recommends sound product application/engineering practice(s) be employed when applying louvered penthouses. Such practice(s) may include, but are not limited to, conservative throat and louver free area velocities. Greenheck shall not be held liable for water related damage to building conditions or equipment



SECTION 8F: ALUMINUM WINDOWS

1. GENERAL REQUIREMENTS

Division One, "General Requirements" is hereby made a part of this section.

2. SCOPE

Provide all aluminum windows on building exterior complete with glass.

3. SHOP DRAWINGS

- a. Submit shop drawings for the Architect's review and do not fabricate prior to acceptance.
- b. Submit samples of aluminum framing system and glass.
- c. Aluminum systems shall be based on performance for a 105 mph windspeed criteria.

4. WARRANTY

Provide a warranty from the manufacturer that the completed work will not be defective in workmanship, materials, or installation for a period of two (2) years from the date of acceptance of its work, and that repair or replacement of any work that may prove to be defective will be done promptly. This warranty does not extend to defects caused by unusual abuse.

5. SYSTEM DESCRIPTION

- a. Design Requirements: Arcadia T200 Series C-HC70 (thermal) heavy commercial windows 2-inch depth. Compression sealed aluminum windows. Suitable for outside glazing.
- b. Performance Requirements: Each assembly tested by a recognized testing laboratory or agency in accordance with specified test methods.
 1. Conformance to C-HC70 specifications in AAMA/NWWDA 101/I.S.2-97.
 - a. Air Infiltration: Accordance with ASTM E283 at a static air pressure difference of 6.24 psf. Air infiltration shall not exceed 0.30 cfm per square foot.
 - b. Water Resistance: Accordance with ASTM E331/ASTME 547 at a static air pressure difference of 10.5 psf. No water leakage.
 - c. Uniform Load Structural: Operable when tested per ASTM E330 at a static air pressure difference of 105 psf.
 - d. Component Testing: Accordance with procedures described in AAMA/NWWDA 101/I.S.2-97.
 - e. Forced Entry Resistance: Conform to CAWM 301-90.
 - f. Accordance with AAMA 1503.1, the condensation resistance factor not less than 51.

- g. Thermal Transmittance Test: Accordance with AAMA 1503.1-88 (U-Value) not more than 0.59 BTU/hr/sf/F.
- h. Thermal Movement: Allow thermal movement resulting from noted change range in ambient temperature. 120 deg F, ambient; 180 def F, material surfaces.

6. **MATERIALS AND MANUFACTURER**

- a. Manufacturer: Arcadia, Inc., 94-410 Uke'e Street, Building #A, Waipahu, Hawaii.
 - 1. Fixed Window: Arcadia Inc. T200 Series Heavy Commercial Fixed Windows, 2-inch depth.
 - 2. Glass: 1-inch (25mm) units with ½-inch (13mm) airspace and two 1/4" (6mm) lites. Interior lite is clear. Solarban 60 Solexia + Clear as manufactured by PPG Industries, Inc.
 - 3. Finish for Window: Clear aluminum finish.

7. **INSTALLATION**

- a. Install component parts level, plumb, and true to line with uniform joints. Do not use defective parts (warped, twisted, bowed, dented, or abraded). Secure to structure with non-staining, non-corrosive shims, anchors, fasteners, spacers, and fillers. Use care in erection so as not to mar, abrade, or stain finished surfaces. Where aluminum is to be placed in contact with steel, concrete block, and other dissimilar surfaces, backpaint the aluminum before erection with an acceptable bituminous paint.
- b. Seal frames with a Thiokol or equal approved sealant in color to match the frames, making a neat, fully weatherproof job.

8. **PROTECTION**

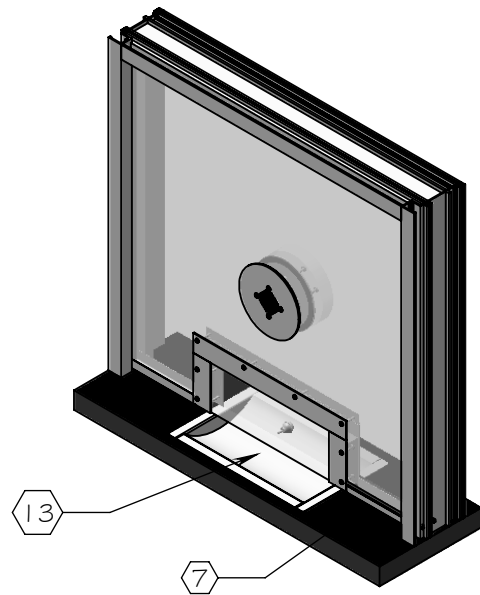
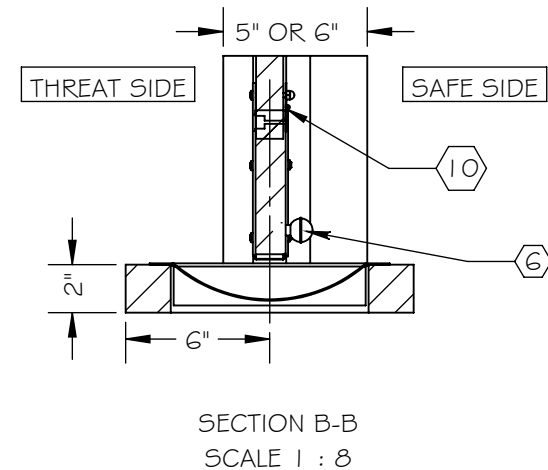
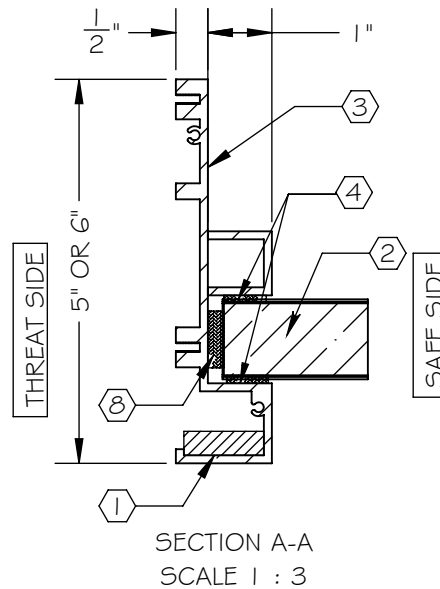
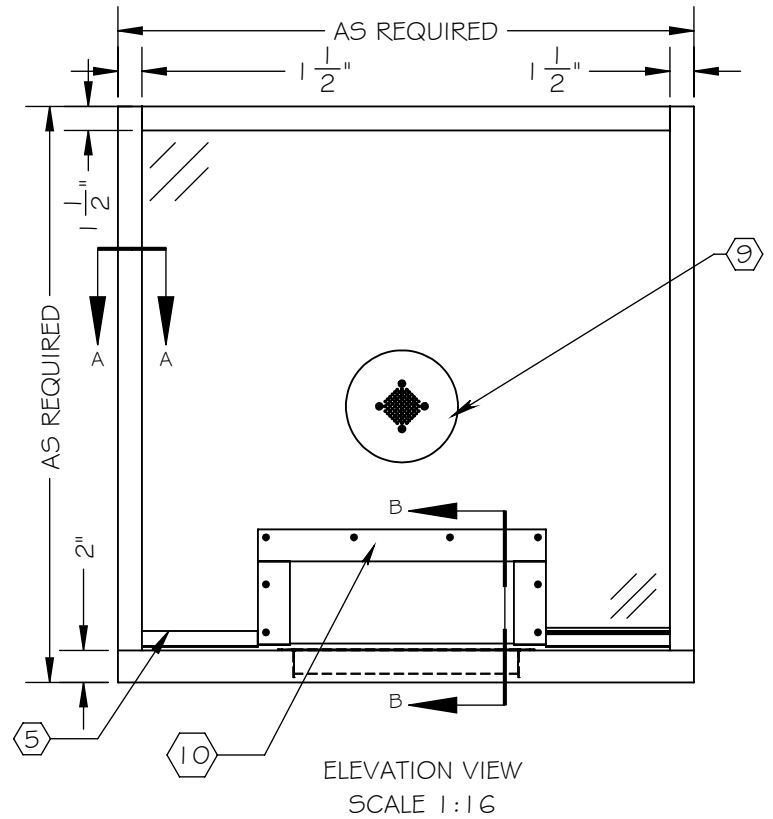
After installation, adequately protect, by masking or other acceptable covering, all exposed parts of the work and the anodized finish from damage by grinding and polishing machines and/or by plaster, lime, cement, acid, or other harmful substances.

9. **CLEANING**

After completion of all other work in the vicinity of the aluminum door frames and storefronts, remove all masking and/or other covering used to protect the work, and thoroughly clean the aluminum surfaces with plain water or a petroleum product such as white gasoline, kerosene, or distillate. **Do not use abrasive cleaning agents.**

NOTES:

- ① ARMORTEX[®] BULLET RESISTANT ARMOR
- ② ARMORTEX[®] BULLET RESISTANT GLAZING
- ③ EXTRUDED ALUMINUM FRAME (CLEAR ANODIZED)
- ④ GLAZING TAPE
- ⑤ STAINLESS STEEL GLAZING CAP
- ⑥ PULL AND SECURITY LATCH
- ⑦ HIGH PRESSURE BLACK LAMINATED PLASTIC SHELF (STAINLESS STEEL OPTIONAL)
- ⑧ NEOPRENE SETTING BLOCK
- ⑨ SPEAKER
- ⑩ STAINLESS STEEL CONTINUOUS HINGE
- ⑪ STAINLESS STEEL ASTRAGAL (BOTH ENDS AND BOTH SIDES)
- ⑫ ANCHORS AS REQUIRED (BY OTHERS) (NOT SHOWN)
- ⑬ STAINLESS STEEL DEAL TRAY



SCALE: AS NOTED	TITLE: TRANSACTION WINDOW HINGED PANNEL	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ±1/16" ANGULAR: ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005
DATE: 06-22-2015	MODEL: WI -TW-AL-HP	
DRAWN BY: M. FREEMAN	SHEET NUMBER: 1 OF 1	

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