cala, Mary Joy

From:

Andrew Garlock <agarlock@TheBCGroup.com>

Sent:

Monday, March 14, 2016 4:54 PM

To:

Scala, Mary Joy

Subject:

RE: Status of William Taylor Plaza - Fairfield Inn & Suites COA

Attachments:

Pilkington Glazing Specs - Dual Low-E Coatings.pdf

Good afternoon Mary Joy,

Below, I have put together a few responses to the current BAR concerns.

Please let me know if you have any questions. I appreciate all of your help through this process.

Best Regards, Andrew

Corner Plaza Bike Bollards – A protective barrier around the plaza is required. We prefer the bike bollards vs. a perimeter wall, as it allows for the corner to remain open, emphasizing the plaza as public space. The bike bollards also promote bike transportation with their direct visibility and relationship to the sidewalk.

Corner Plaza Brick Façade — Our design emphasis here was to detail and frame the brick tower facing ridge street and not erode the corner of the building with glazing/storefronts. With some minor modifications to the design, we could extend the storefront system to the corner. We hesitate to wrap the brick corner with the storefront and disturb the integrity of the Cherry Ave. brick facades. Extending the storefront across the Ridge Street façade will open it up much more and also break the brick wall plane up. We could make these design changes and resubmit for approval if the current design is not approved.

Site Lighting Color Temperature – For clarification, all site lighting to be 3000k color temp. We will resubmit final site plans with this change.

Site Lighting Controls – Marriott requires that exterior lighting be daylight automated due to life safety concerns. They do not allow user control of lighting intensity (dimming not possible). Luminaire intensity (lumens) has been scheduled at values which provide code compliant site lighting.

Pilkington Glazing VLT – See PDF attached for glazing spec. This spec was brought to the November BAR meeting and approved with the other building materials. I applogize for not including it in the final submission.

Signage at Corner – All public (visible from the street) hotel signage is located on the Cherry Avenue brick facades. We avoided placing the hotel signage on the Ridge Street façade, as the 12sf requirement was too restrictive for the size of the sign we needed. A blade sign is an interesting possibility, depending on how it is oriented and which district signage requirements would apply. We will continue thinking about the options here and make any revisions during the separate signage review package that will be submitted at a later date.

ANDREW T. GARLOCK | NCARB | AIA

Project Architect

BCA ARCHITECTS & ENGINEERS

Ithaca | Syracuse | Watertown

Watertown, NY 13601 P: 315.782.8130 ext. 238 C: 315.486.4941 www.thebcgroup.com

From: Scala, Mary Joy [mailto:scala@charlottesville.org]

Sent: Monday, March 14, 2016 12:44 PM

To: Andrew Garlock

Subject: Re: Status of William Taylor Plaza - Fairfield Inn & Suites COA

Yes

Sent from my iPhone

Thank you Mary Joy. I will put together a response to the concerns/questions you have sent and send it to you on Monday next week. Would that be ok?

ANDREW T. GARLOCK | NCARB | AIA

Project Architect

BCA ARCHITECTS & ENGINEERS

Ithaca | Syracuse | Watertown

327 Mullin Street Watertown, NY 13601 P: 315.782.8130 ext. 238 C: 315.486.4941 www.thebcgroup.com

From: Scala, Mary Joy [mailto:scala@charlottesville.org]

Sent: Friday, March 11, 2016 2:02 PM

To: Andrew Garlock

Subject: Re: Status of William Taylor Plaza - Fairfield Inn & Suites COA

I have actually added it to the end of their agenda this Tuesday. They have sent comments by email that require discussion. I do not expect you to attend the meeting on short notice. I will forward their comments and perhaps you would care to respond before the meeting. I'd really like to get this wrapped up.

Sent from my iPhone

On Mar 11, 2016, at 1:41 PM, Andrew Garlock agarlock@TheBCGroup.com wrote:

Good afternoon Mary Joy,

I hope you are doing well.

I am emailing you to confirm the status of the COA for the William Taylor Plaza Fairfield Inn & Suites project. Please let me know if the project has received final approval on the documents I had emailed to you on February 23rd. If you need anything else, please do not hesitate to contact me at any time.

Best Regards,

ANDREW T. GARLOCK | NCARB | AIA

Project Architect

BCA ARCHITECTS & ENGINEERS

Ithaca | Syracuse | Watertown

327 Mullin Street Watertown, NY 13601 P: 315.782.8130 ext. 238 C: 315.486.4941 www.thebcgroup.com

This message, complete with any attachments, contains confidential and privileged information and is intended only for the individual(s) named. If you are not the named addressee, you should not disseminate, distribute or copy this email. Please notify the sender immediately by email if you have received this email by mistake and delete this email from your system. If you are not the intended recipient, you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited. Email transmission cannot be guaranteed to be secure or error-free, as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender, therefore, does not accept liability for any errors or omissions in the contents of this message which arise as a result of email transmission.



Pilkington Sun Management Calculator Results

11 November 2015 9:44

Details

Outboard: 6 mm (1/4") Pilkington Energy Advantage™ on the #2 surface Fill: Air 13 mm (1/2")

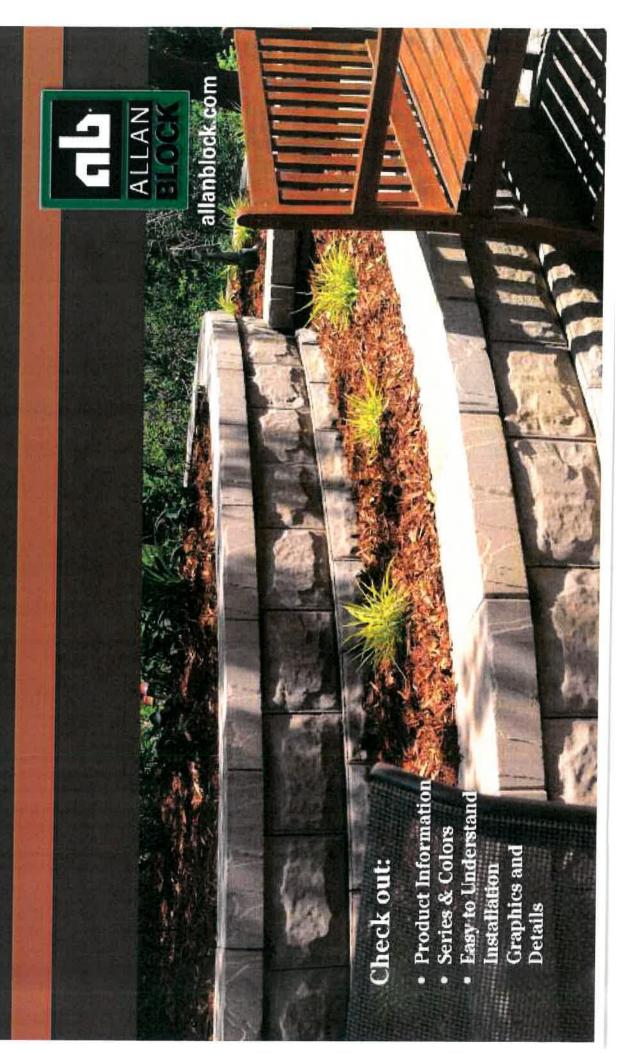
Inboard: 6 mm (1/4") Pilkington Energy Advantage™ on the #3 surface

Visible Light Transmittance		68%	UV Transmittance	29%
	Exterior Reflectance	17%	U-Factor Summer (W/m2 °C)	1.70
	Interior Reflectance	17%	U-Factor Summer (Btu/hr.sq.ft °F)	0.30
Solar Energy Transmittance		47%	U-Factor Winter (W/m2 °C)	1.76
	Reflectance	15%	U-Factor Winter (Btu/hr.sq.ft.ºF)	0.31
Damage-Weighted Trans. Tdw - ISO		0.55	Solar Heat Gain Coefficient	0.60
			Shading Coefficient	0.69

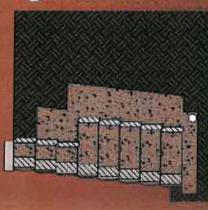
Click here for Tech Bulletins

IGOB Version 30 0 Values are calculated using the LBNL Window 6.3 program and represent the 'center-of-glass' region of the glazing

AB Fieldstone®

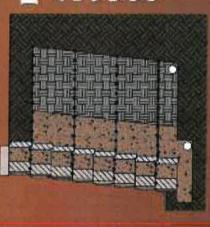


AB Fieldstone is easy to install - Friendly



Gravity Walls

Taller gravity walls can be achieved using the long anchoring units. This eliminates the need for geogrid reinforcement. Check maximum gravity wall heights in the table below.



Reinforced Walls

AB Fieldstone can also be built using the short anchoring units with geogrid reinforcement. Check the maximum wall height chart and the soil reinforcement chart for proper placement.

Maximum Wall Heights - AB Gravity Walls

Condition above retaining wall	Sed Type	Friction	67 (Part) Add Haddenman Share Accelerating Late (SAU)	6° (3.cb All Distances Long Nacharlag Under G.A.)
	Cley	30.	3.8.7 in.	5 ft. 10 m. 1.8 m
l.i.j	Silly Swint	Ħ	= 0.8 = 0.8 = 0.8	# 11. 6 in.
	Sandi Grave	K	5 ff 3 m. 1 7 m	9 ft 8 ft.
Surfigure Comments (1988)	Clay	4	1 # 8 hi 0.5 m	4.0ft 1.2m
[]. [].]	Sulty Sand	Đ.	11 7 m	7.0 A.
	SandiGravel	S.	4ft 2m.	800. 2.4m
Shope Iti	Clay	Ė,	2.8 S III	40 4 th 13 m
<u>-</u>	Silly Sand	Ħ	4.8.2 E. 1.0 E.	78 4m
	Sacid/Orased	98	5 1 III	Star Tea

to an expression of the production of the production angle of the production of Starth and become accordant to the starth of Starth and Starth and Starth St

Example

A 6 ft high wall (1.8 m) built in sandy soil with a level surface above the wall will require geogrid - four layers, with king anchoring units (1.4U). It will require no additional reinforcement, but will require review by a local professional engineer.

AB Fieldstone Collection Residential Wall Applications Soil Reinforcement Chart for CLAY SOIL HESGHT ** III (1.200) 3ff rall m) Sterson THE MEN. 3R (0.8-4) 5ft (15m) (元名丁) 現今 3ft (0,9 m) 4ft (1.2 m) 10 cl 2m 5月(115元) e Sycan COMPITION

To be the word on the soft protest are present protest under a filled on better and country and the soft and

6**0**118m

More from Allan Block - Retaining Walls

AB Europa Collection



AB Dover

Approx. I blk/tif (11 blk/m²) 8 in. H x 10.5 in. D x 18 in. I. (200 mm H x 265 mm D x 460 mm I) 80 ibs (36 kg)



AB Palermo

Approx. 2 blk/ht (22 blk/mt)
8 in. Il x 9.5 in. D x 9 in. L
(200 mm Il x 240 mm D x 230 mm L)
35 lbs (16 kg)



AB Barcelona

Approx. 2 blk/H¹ (22 blk/m³) 4 in. H × 10.5 in. D × 18 in. L (100 mm H × 265 mm D × 460 mm L) 40 lbs (18 kg)



AB Bordeaux

Approx. 4 blk/ft² (44 blk/m²) 4 in. H x 10.5 in. D x 9 in. L (100 mm H x 265 mm D x 230 mm L) 20 lbs (9 kg)

The AB Europa Collection captures the hand-laid stone effect that brings distinction to any project. The blocks can be used separately or blended together for ourstanding results. The unique texture creates a stunning look and gives old world charm to any landscape.





Specifications are approximate, contact local representative for availability, exact specifications, sizes and colors for all Allan Block products.

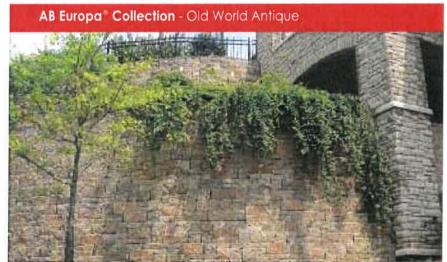


A Complete Family of Wall Products

The Allan Block Collections give you a choice of styles to meet your site and design requirements. Use the basic gravity wall system for smaller wall projects. For taller wall projects use geogrid to reinforce the wall, or consider optional techniques using masonry, no-fines, rock bolts, soil nails, or earth anchors.



The AB® Collection has been a favorite of wall builders for years and offers the perfect blend of performance and style with maximum results.



The AB Europa® Collection captures the hand-laid stone effect that brings old world charm and distinction to any project in beautiful marbled colors.



The AB Fieldstone® Collection is a "Green/Eco-Friendly" retaining wall product that maintains the beautiful look and feel of natural stone. Installing and performing like our other Collections, AB Fieldstone truly is a friendly product.



PROMENADE™ PLANK PAVER

Clean, sleek lines are essential to any modern design. Choose the size, finish and color from Unilock's Promenade[®] Plank Paver series for long narrow paving 'planks' to create a dynamic linear aesthetic to complement any design.



CUSTOM FINISH OPTIONS



BELPASSO* Enamel Finish



UMBRIANO* Mottled Finish



SERIES 3000* Exposed Aggregate Finish



IL CAMPO* Brushed Finish



CUSTOM COLOR OPTIONS*

Ask your Unilock Representative about locally stocked colors.



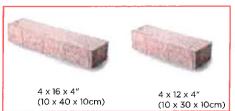
PRODUCT SPECIFICATIONS



8 x 24 x 4" (20 x 60 x 10cm)



6 x 24 x 6" (15 x 60 x 15cm)

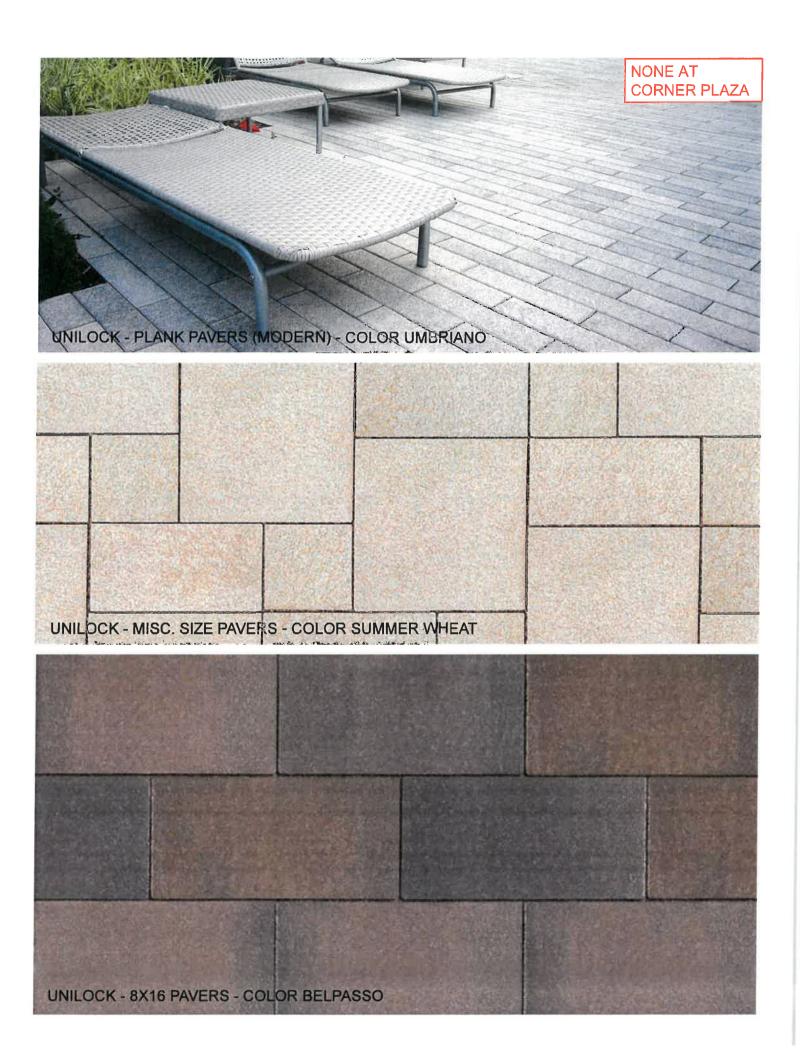




3 x 12 x 4" (7 x 30 x 10cm)

Promenade" can be manufactured in a variety of custom colors and textures. Minimum quantities will apply. Please contact your Unilock Representative for more details.

Permeable version 3 x 12", Eco-Promenade™ is available by special order. See page 53.





Architectural Products

www.unilock.com 1-800-UNILOCK

Notes:

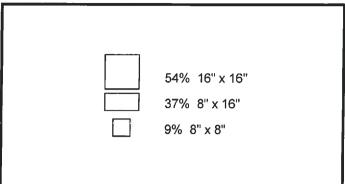
Copyright 2010 Hengestone Holdings, Inc.

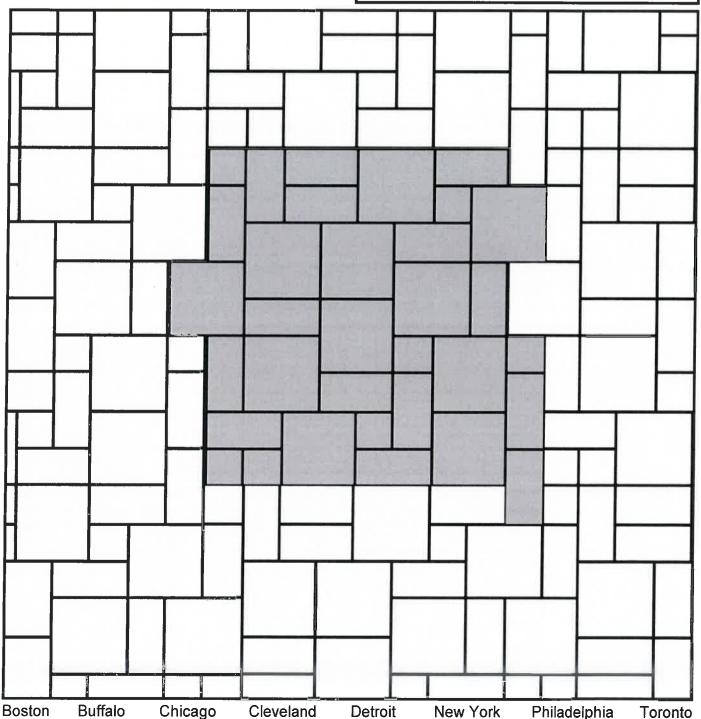
AutoCAD® hatch pattern files can be downloaded from www.unilock.com for use in architectural drawings.

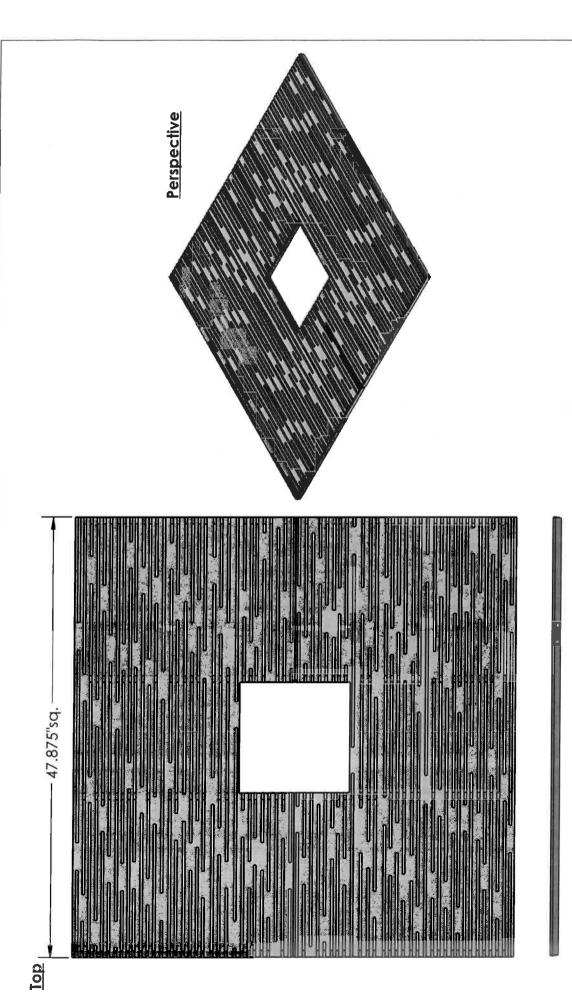
Some patterns may not necessarily reflect the percentages of stone sizes within a particular bundle configuration. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Umbriano®

Pattern C







-215.415.61

Material: cast iron Finish: Natural Edge thickness: 1" Fits frame by: Iron Age Heelproof: No openings greater than 1/4" Weight approx. N/A Due to casting inconsistencies all dimensions are nominal

© 2014 Iron Age Designs

2104 SW 152nd st #4 TEL 206.276.0925 Burien, WA 98166 FAX 206.257.0318 w w w i r o n a g e g r a t e s . c o m CONCEPT Grate Tree 48"sq. IRON AGE 2 Rain

DWG. NO.

JOB NO.

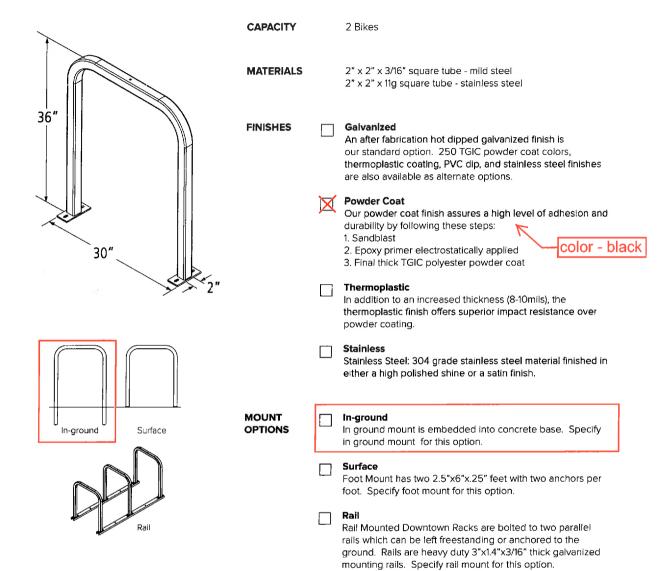
Drawn by: Date:

Not to Scale

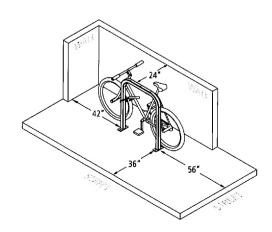
01-Rai.1.48sq

DOWNTOWN RACK

Submittal Sheet



SETBACKS





CRL ARS Aluminum Railing System

Design Options

- Exterior and Interior Hand Rails and Guard Rails
- Infill Panel Options: Aluminum Pickets, Aluminum Pattern Panels, Clear or Coated Structural Glass, or Stainless Steel Cable
- Custom Gates
- . ADA Compliant Grab Rails
- Attractive Low-Voltage, Post Mounted Lighting System for Our Railing Systems. Using a Safe, 12 Volt Power Source, These Lights Provide a Subtle Glow That is Sure to Enhance Any Balcony Environment

Component Features and Benefits

- Innovative Design Details for Standard or Custom Applications
- Extruded Aluminum for Durability, Weather Resistance, and Low Maintenance
- Heavy Gauge Materials and Steel Embeds for Strength
- Uses 1/4" to 1/2" (6 to 12 mm) Tempered Glass for Safety and Impact Resistance

Color Selection

- Tough, Powder-Coated or Optional Kynar Paint Colors for Superior Color Retention and Weather Resistance
- Special Coating for Resistance to Salt Water Corrosion

250 additional "Quick Turn" colors. If you still can't find just the

Retaining Wall

Picket Railing

Standard Colors

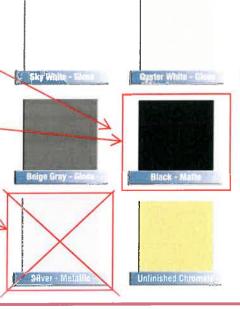
- In-House Factory Applied
- Baked on TGIC Polyester Powder Coat Paint System
- Excellent Weatherability and Durab Cherry Ave/Stair
- Meets AAMA 2603-98 Specification Cable Railings

Additional Color Options

- A Variety of Textured and Performance Enhanced Powder Coat Paint Systems Cherry Avenue
- Custom Color Matching
- 50% and 70% Kynar Paint Systems to Meet Stringent AAMA 2604-98 and 2605-98 Commercial Specifications
- All Paint Systems Will Be Applied Over State-of-the-Art Chromate Pre-Treatment



- 2-3/8" and 4" (60.3 and 101.6 mm) Square Posts Available
- Seven Standard Powder Paint Colors Available, Plus Unfinished Chromate
- Custom Colors Also Available







Standard Colors

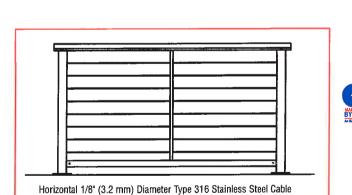
Colors shown are representative only, and may vary slightly from actual gloss, color, and texture. If color match is critical, please contact Technical Sales for additional information.

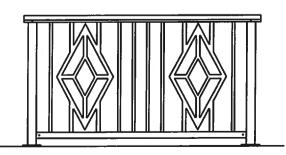
C.R. LAURENCE COMPANY



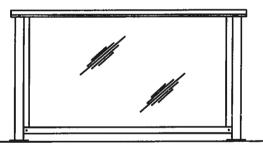


Infill Options

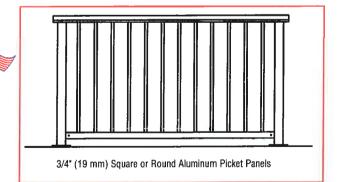


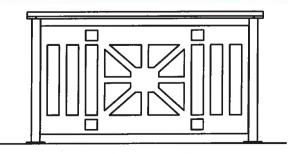


Cast Aluminum Panels



1/4" (6 mm) through 1/2" (12 mm) Tempered Glazing





Custom Water Jet/Laser Cut Panels

C.R. LAURENCE COMPANY





Strong, Durable, and Maintenance-Free Beauty!

Superior Series 7000 and 700 Picket Fence can be found where a touch of elegance, function and security are a must. This maintenance-free fencing is an excellent choice for perimeter and pool fencing, as well as dividers on residential, commercial, institutional, multi-housing and municipal installations.

Superior Picket Fence utilizes all the advantages of aluminum - strong, durable, and rust- and corrosion-free. These characteristics make it a practical, sound investment for the budget-minded buyer.

The smart, contemporary design is an added plus. Our unique, no-weld design utilizes simple, cast aluminum fittings or machined openings for a no-hassle, easy installation.

To make our fencing even more versatile, cast aluminum ornaments, inserts and scrolls are available to mount on top of posts and on pickets for a custom decorative appearance.

Superior Picket Fence comes with 2", 21/2" or 4" square posts and 3/4" square pickets with a formed spear, a cast spear or a flat top. Options for picket spacing include 3", 41/2" or 6" centers, as well as custom spacing.

Superior fencing comes in standard 6' lengths, as well as custom lengths, in 2, 3 or 4-line styles. Ordering standard 6' lengths reduces lead times and cost.

Fencing is also available in any height. Standard heights include 60" and 72". For heights above 60", 3 or 4-line styles are recommended.



NEW! Concealed Picket Screws

A new product design for Series 7000 and 700 Fence features a

screw cover to conceal picket screws on top and bottom rail assemblies for a cleaner, more streamlined look.

Finishes

Smart, decorative finishes add a distinctive touch. Whether baked-on enamel, anodized or duranodic, these finishes are guaranteed to endure for years of continued service and maintenance-free beauty.





Series 7000 Picket Fence features machined post openings, eliminating the need for brackets. The result is a clean, rigid design with added strength.

Easy Assembly and Installation!



View of the underside of bottom



Tightening rail wedge on



Series 7000 Picket Fence is not only easy to assemble and install, but the machined post openings and factory assembled sections facilitate quick turn-around and cost savings.

All posts are machined with openings to receive top and bottom rails. If the fence is angled vertically or horizontally, specify the angle so the proper openings can be machined into the post. As assembled fence is inserted into the openings, rail wedges located in the top and bottom rails will ensure proper insertion of 11/4" inside the post.

If a fence section or sections need to be shortened, simply saw an equal amount from each rail end with the use of a miter or circular saw. Reinstall and tighten the rail wedge using an 1/8" Allen Wrench on both the top and bottom rails so 11/4" protrudes through the post openings.

For securing a corner or end post, a screw is provided for each rail wedge to prevent the post from moving outward.

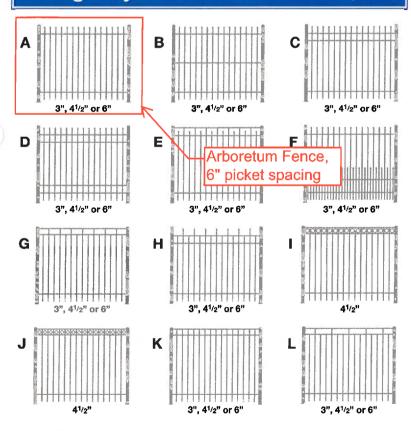






Picket Fence Design Styles

To order, choose design A, B, C, etc., and specify picket center spacing.



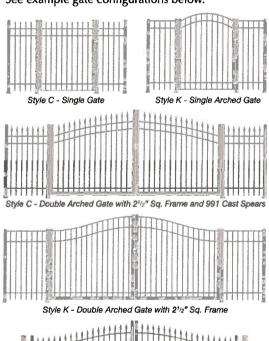






Custom Aluminum Gates

Superior manufactures attractive, aluminum gates to any size and design configuration. The durable, all-welded gate construction coupled with electrostatic painting or anodizing, means years of trouble-free service. Gates can be equipped with standard or custom security locks. See example gate configurations below.





Style D - Double Arched Gate with 21/2" Sq. Frame, Gussets, Heavy Duty Roller Bearing Hinges, 991 Cast Spears and 935 Cast Rings

> Ask about snap-in privacy liner to hide equipment and/or items out of view.

1-800-344-5917

Since 1946

ABOUT

CONSTRUCTION

STEEL FABRICATION

GALVANIZING

SIGNAGE

CONTACT US

BACK TO GUARDRAIL PRODUCT Overview

CONSTRUCTION-GUARDRAIL PRODUCTS

Semi-Rigid Barrier System

Weathering Steel (Corten) Guardrali Powder Coated / Colored Guardrali Aesthetic Timber Barrier / Wood Guardrali

Steel Backed Timber Guardrail Median Barrier Steel Guardrail Thrie-Beam Steel Guardrail Box Beam Steel Guardrail W-Beam Steel Guardrail Bridge Rail

Flexible Barrier Systems

Weak Post W-Beam Guardrail High Tension Cable Guardrail Systems Low Tension Cable Guardrail

Guardrail End Treaments and Impact Attenuators

Recycled Guardrall End Cap
Roll-over End Section
Terminal End Sections (Boxing Glove)
Trail End Guardrall Sections
Guardrall Bridge Attachment
Impact Attenuators
Guardrail End Treatments
Bull Nose End Treatment

Work Zone Barriers

Temporary Impact Attenuators

Fencing and Railing
Pedestrian Hand Rail

Guardrail Accessories

Guardrail Accessories

Aesthetic Timber Barrier / Wood Guardrail



Aesthetic Timber Barriers / Wood Guardrail are frequently used on private property or parking lots where aesthetic concerns are considered a high priority. There are numerous wood guardrail options, including a variety of guardrail "panel" measurenients and post styles. Wood guardrail is commonly installed on brown (poly-coated or Corten) guardrail posts to achieve an aesthetically pleasing look, or can be mounted on wood posts. Please view our gallery and explore our site for some Wood Guardrail examples or consult one of our specialists to attain your desired option.

TO BE STAINED DARK WALNUT

WELCOME

About Elderlee, Inc. Corporate Structure Company History

CONSTRUCTION

Construction
Design Build
Guardrail Installation
Guardrail Products
Commercial Guardrail
Impact Attenuators
Highway Sign Installation
Frequently Asked Questions
Videos

STEEL FABRICATION

Steel Fabrication Guardrail Products Bridge Rail

GALVANIZING

Galvanizing
Why Galvanize?
The Process
Durability
Sustainability

SIGNAGE

Sign Manufacturing Traffic Signs

EMPLOYMENT

Employment Safety at Elderlee Application Employee Log In

1-800-344-5917

Quality - Service - Integrity - Safety ©2015 Elderlee, Inc. A Division of REH Holdings, Inc. All Rights Reserved



D-Series Size 1

LED Area Luminaire

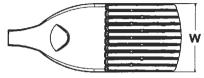


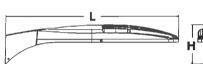




Specifications

EPA:	1.2 ft ² (0.11 m²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height:	7-1/2" (19.0 cm)
Weight	27 lbs







Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing 100 – 400W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

DSX1LED

(max):

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting		
DSX1 LED	Forward optics 30C 30 LEDs (one engine) 40C 40 LEDs (two engines) 60C 60 LEDs (two engines) Rotated optics 1 60C 60 LEDs (two engines)	530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted ²	T1S Type I Short TFTM Forward Throw Medium T2M Type II Medium T5VS Type V Very Short T3S Type III Short T5S Type V Short T3M Type III Medium T5M Type V Medium T4M Type IV Medium T5W Type V Wide	MVOLT ³ 120 ³ 208 ³ 240 ³ 277 ³ 347 ⁴ 480 ⁴	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor ⁵ RPUMBA Round pole universal mounting adaptor ⁵ Shipped separately KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁶		

Control options	w		Other	options	Finish	Med)
Shipped installed PER NEMA twist-lock receptacle only (no controls) ⁷ PER5 Five-wire receptacle only (no controls) ^{7,8} PER7 Seven-wire receptacle only (no controls) ^{7,8} DMG 0-10V dimming driver (no controls) ⁹ DCR Dimmable and controllable via ROAM® (no controls) ¹⁰ DS Dual switching ^{11,12} PIR Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc ¹³ PIRH Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ¹³	PIR1FC3V PIRH1FC3V BL30 BL50 PNMTDD3 PNMT5D3 PNMT6D3 PNMT7D3	Motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 1fc ¹³ Motion/ambient sensor, 15–30' mounting height, ambient sensor enabled at 1fc ¹³ Bi-level switched dimming, 30% ^{12,14} Bi-level switched dimming, 50% ^{12,14} Part night, dim till dawn ¹⁶ Part night, dim 5 hrs ¹⁵ Part night, dim 6 hrs ¹⁵ Part night, dim 7 hrs ¹⁵	Shipp HS WTB SF DF L90 R90	ped installed House-side shield ¹⁶ Utility terminal block ¹⁷ Single fuse (120, 277, 347V) ¹⁸ Double fuse (208, 240, 480V) ¹⁸ Left rotated optics ¹⁹ Right rotated optics ¹⁹	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark bronze Black Natural aluminum White Textured dark bronze Textured black Textured natural aluminum Textured white

Controls & Shields

DLL127F 1.5 JU DLL347F 1.5 CUL JU DLL480F 1.5 CULJU SC U DSX1HS 30C U DSX1H5 40C U DSX1HS 60C U PUMBA DDBXD U*

Accessories

Photocell - SSL twist-lock (120-277V) 20 Photocell - SSL twist-lock (347V) 20 Photocell - SSL twist-lock (480V) 20 Shorting cap 20

House-side shield for 30 LED unit House-side shield for 40 LED unit House-side shield for 60 LED unit Square and round pole universal mounting bracket (specify finish)

KMA8 DDBXD U

Mast arm mounting bracket adaptor (specify finish) 6

8

Rotated optics available with 60C only.

AMBPC only available with 530mA or 700mA.

MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120V, 208V, 240V or 277V options only when ordering with fusing ISF, DF options). Not available with single board, 530mA product (30C 530 or 60C 530 DS). Not available with BL30, BL50 or PNMT options.

Available as a separate combination accessory: PUMBA (finish) by; 1.5 G vibration load rating per ANCI C136.31.

Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).

Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option.

If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR.

DMG option for 347V or 480V requires 1000mA.

Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required, Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices. not. N/A with DS, PERS, PERS, BL30, BL50 or PNMT options. 9 10

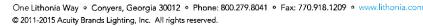
Requires 40C or 60C. Provides 50/50 luminaire operation via two independent drivers on two separate circuits. N/A with PER, DCR, WTB, PIR or PIRH. Requires an additional switched circuit.

PIR and PIR1FC3V specify the SensorSwitch SBGR-10-ODP control; PIRH and PIRH1FC3V specify the SensorSwitch SBGR-6-ODP control; see Motion Sensor Guide for details. Dimming driver standard. Not available with PERS or PER7. Ambient sensor disabled when ordered with DCR. Separate on/off required

Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, DS, PERS, PER7 or PNMT options.

PERS, PER7 or PNMT options.
Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, DS, PERS, PER7, BL30 or BL50.
Also available as a separate accessory; see Accessories information.
WTB not available with DS.
Single fuse (SP) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.

16 17 18



ZAUV or 4BUV. Available with 60 LEDs (60C option) only. Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Centrals.



For more control options, visit DTI and ROAM online.



D-Series Size 2

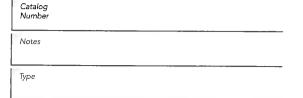
lighting

LED Wall Luminaire





Back Box (BBW)



d"series

Specifications

Luminaire

Width:

Depth:

Height:

18-1/2" (47.0 cm)

10"

(25.4 cm)

7-5/8"

(19.4 cm)

Weight:

21 lbs (9.5 kg)

Width:

5-1/2" BBW Weight: (14.0 cm)

1 lbs

(0.5 kg)

1-1/2" (3.8 cm)

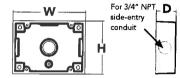
Height:

Depth:

44 (10.2 cm)







Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 76% in energy savings over comparable 400W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW2 LED 30C 700 40K T3M MVOLT DDBTXD

DSXW2 LED

Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options	Other Options	Finish (required)
DSXW2 LED	20C 20 LEDs (two engines) 30C 30 LEDs (three engines)	350 350 mA 530 530 mA 700 700 mA 1000 mA (1 A)	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium ASYDF Asymmetric diffuse	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 ² 480 ²	Shipped included (blank) Surface mounting bracket Shipped separately ³ BBW Surface— mounted back box (for conduit entry)	PE Photoelectric ceil, button type ⁴ PER NEMA twist-lock receptacle only (no controls) DMG 0-10V dimming driver (no controls) DCR Dimmable and controllable via ROAM® (no controls) PIRH 180° motion/ambient light sensor, 15-30' mtg ht ⁶	Shipped installed SF Single fuse (120, 277, 347V)? DF Double fuse (208, 240, 480V)? HS House-side shield 3 SPD Separate surge protection * Shipped separately 3 BSW Bird-deterrent spikes WG Wire guard VG Vandal guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured aluminum DWHGXD Textured white DSSTXD Textured sandstone

NOTES

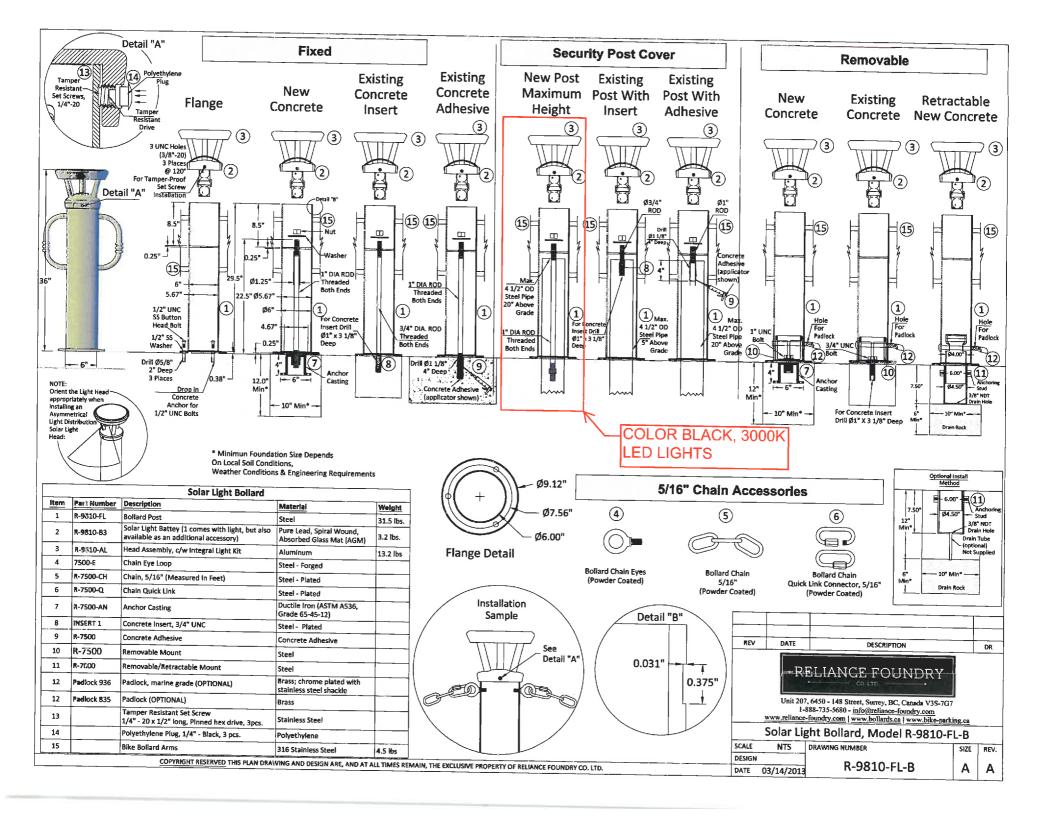
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE options).
- Available with 30 LED/700mA options only (DSXW2 LED 30C 700). DMG option not available
- Also available as a separate accessory; see Accessories information.
- Photocontrol (PE) requires 120, 208, 240 or 277 voltage option. Not available with motion/ambient light sensors (PIR
- Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347V, 480V or PIRH. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net
- Specifies the Sensor Switch SBGR-6-ODP control; see Motion Sensor Guide for details. Includes ambient light sensor. Not available with "PE" option (button type photocell) or DCR. Dimming driver standard.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. See the electrical section on page 2 for more detail
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

Accessories

Ordered and shipped separately

DI I 127F 1.5 III Photocelf - SSL twist-lock (120-277V) 9 DLL347F 1.5 CUL JU Photocell - SSL twist-lock (347V) * DLL480F 1.5 CULJU Photocell - SSL twist-lock (480V) 9 SC U Shorting cap 9 DSXWHS U House-side shield (one per light engine) DSXWRSW II Bird-deterrent spikes DSXW2WG U Wire guard accessory DSXW2VG U Vandal guard accessory DSXW2BBW DDBXD U Back box accessory (specify finish)







GN1LED26NSADW



Project:

Type:

Prepared By:

Date:

Driver Info

LED Info

Type: 120V: 208V:

240V

277V:

Input Watts:

Efficiency:

Constant Current 0.25A 0.16A 0.14A 0.12A

29W

90%

Color Ac
L70 Lifes
Lumens:
Efficacy:

Watts: 26W
Color Temp: 4000K (Neutral)

Color Accuracy: 85 CRI
L70 Lifespan: 100,000
Lumens: 1,461
Efficacy: 51 LPW

13 & 26 Watt Dome Shade LED Gooseneck Luminaire designed to match the architecture of Main Street storefronts and building perimeters. LED Gooseneck Dome Shade with 24" Goose Arm Style 1.

Color: White

Weight: 11.0 lbs

Technical Specifications

Listings

UL Listing:

Suitable for wet locations. Suitable for mounting within 1.2m (4ft) of the ground.

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

LED Characteristics

Lifespan:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

LED:

Single multi-chip, 26W high-output, long-life LED.

Correlated Color Temp. (Nominal CCT): 4000K

Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:

RAB's range of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2009

Construction

Fixture:

The GN1LED26NSADW comes with the GOOSE1W Arm.

Thermal Management:

Custom heat sink assembly in thermal contact with die-cast aluminum housing for superior heat sinking.

Housing:

Precision die-cast aluminum housing, lens frame and mounting plate.

Gaskets:

High Temperature Silicone

Mounting:

Heavy-duty mounting arm with "O" ring seal and stainless steel screw.

Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals. Offers significantly improved gloss retention and resistance to color change.

Green Technology:

Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

Electrical

Driver:

Constant Current, Class 2, 100-277V, 50/60 Hz, 0.48 A, THD≤20%, PF 97.9%.

Surge Protection:

4kv

Other Shades:

15" Angled Dome Shade offered.

Equivalency:

The GNLED26 is equivalent in delivered lumens 120W incandescent, 75W MH or 42W CFL.

California Title 24:

Goosenecks complies with 2013 California Title 24 building and electrical codes as a commercial outdoor non-pole-mounted fixture < 30 Watts when used with a photosensor control. Select catalog number PCS900(120V) or PCS900/277 to order a photosensor.

Patents:

The design of the Gooseneck is protected by patents pending in US, Canada, China and Taiwan.

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods— Buy American Act— Construction Materials (October 2010)

Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GN1LED26NSADW

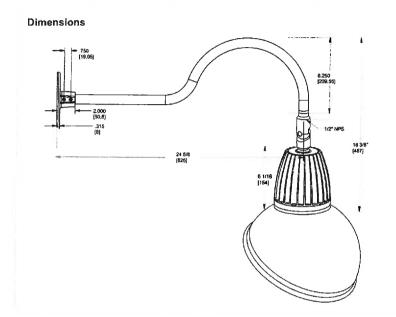


Technical Specifications (continued)

Other

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4



Features

Adjustable 45° swivel joint

Superior heat sink

Die-cast aluminum housing

5 year LED warranty

Ordering Matrix						
Family	Watts	Color Temp	Reflector	Shade	ShadeSize	Finish
GN1LED	26	X	S	AD		M
	13 = 13W	Y = 3000K	= Flood	AD = Angled Dome	11 = 11"	B = Black
	26 = 26W	N = 4000K	R = Rectangular		= 15"	W = White
			S = Spot			A = Bronze
						S = Silver
						G = Hunter Green
						YL = Yellow
						LB = Light Blue
						BL = Royal Blue
						BWN = Brown

I = Ivory R = Red

Halo Commercial

DESCRIPTION

Recessed 6-inch LED lens downlight is available in various distributions, lumen and CRI/CCT options. Suitable for commercial construction and can be used for both new or renovation work. Insulation must be kept 3" from top and sides of housing. Use for general area lighting where high efficiency and visual comfort are required.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

Recessed Canned Fixtures beneath Canopies

SPECIFICATION FEATURES

MECHANICAL

Frame

Boat shaped galvanized steel frame with adjustable plaster lip accommodates ceilings up to 1/2 - 2" thick. May be used for new construction or remodeling installations. Provided with (2) remodel clips to secure frame when installed from below the ceiling.

Mounting Brackets

Bar hanger receivers adjusts 2" vertically from above the ceiling or thru the aperture. Use with No Fuss™ bar hangers or with 1/2" EMT. Removable to facilitate installation from below the ceiling.

No Fuss™ Bar Hangers

Captive preinstalled bar hanger locks to tee grid with a screwdriver conductors and feed thru branch or pliers. Centering mechanism allows consistent positioning of fixtures

OPTICAL LED Module

Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation. Available in 80 or 90 CRI minimum, accuracy within 3 SDCM provides color uniformity. See ordering information for available CRI / CCT options. Passive thermal management achieves L70 at 50,000 hours in non IC applications. Integral diffuse lens provides visual shielding. Integral connector allows quick connection to housing flex.

Reflector

One piece parabolic aluminum reflector provides cutoff for a visually comfortable optic. Attaches to LED module with (3) speed clamps minimizing light leaks to lens. Self-flanged standard - Insulation must be kept 3" from with an optional white painted flange.

Trim Retention

Reflectors are retained with two torsion springs holding the flange tightly to the finished ceiling surface.

ELECTRICAL Junction Box

(6) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (12) #12 AWG (six in, six out) 90°C wiring.

Integral UNV 120 - 277V 50/60 Hz constant current driver provides noise free operation. For 347V input use Halo transformer H347 or H347200. Continuous, flickerfree dimming from 100% to 10% with leading or trailing edge phase cut at 120V or 0 -10V analog control.

Emergency Option

Provides 90 minutes of standby lighting meeting most life safety codes for earess lighting. Available with both integral or remote charge indicator and test switch.

Compliance

- cULus listed for wet location
- cCSAus listed for wet location
- IP66 Ingress Protection Rated
- top and sides.
- Airtight per ASTM-E283.
- Optional City of Chicago environmental air (CCEA) marking for plenum applications.
- EMI/RFI emissions per FCC 47CFR Part 18 non-consumer limits.
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79-08.
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.
- Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.
- ENERGY STAR® listed for commercial applications, reference database for current listinas.



PD610 PD615 **PD620** PD630

PDM6A

61V

1000, 1500, 2000 & 3000 **Lumen Series**

LED 6-Inch Aperture Lens Downlight

THD: ≤ 20%
PF: ≥ 0.90
T Ambient -30 - +40°C
Sound Rating ≤ 22dba

Lumens	1000 Series			
Input Voltage	120V	277V		
Input Current	.103 A	.058 A		
Input Power	12.1 W	13.2 W		
Efficiency	88 LPW	88 LPW		
Inrush Current	.048 A	.080 A		

Lumens	1500	Series
Input Voltage	120V	277V
Input Current	.146 A	.1 A
Input Power	17.1 W	17.9 W
Efficiency	87 LPW	87 LPW
Inrush Current	1.920 A	0.960 A

Lumens	2000 Series			
Input Voltage	120V	277V		
Input Current	.175 A	.536 A		
Input Power	20.78 W	21.06 W		
Efficiency	89 LPW	89 LPW		
Inrush Current	.064 A	.128 A		

Lumens 3000 Series				
Lumens	3000 Series			
Input Voltage	120V	277V		
Input Current	.299 A	.145 A		
Input Power	35.72 W	36.4 W		
Efficiency	82 LPW	82 LPW		
Inrush Current	.096 A	.928 A		



Halo Commercial

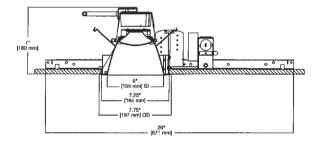
ORDERING INFORMATION

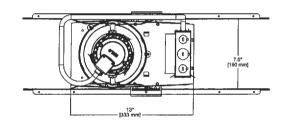
SAMPLE NUMBER: PD610ED010REM-PDM6A827-61VC
A complete luminaire consists of a housing, LED module and reflector, order separately.

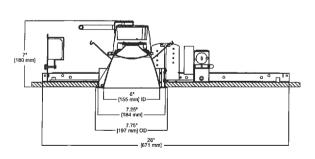
Presegge	Lumens	Derbest	Options	LEO Module	CRI/CCT
PD6 = 6" aperture LED downlight PD6CP = 6" aperture LED downlight, CCEA listed for City of Chicago plenum requirements	10 = 1,000 lumens (nominal) 15 = 1,500 lumens (nominal) 20 = 2,000 lumens (nominal)	0-10V and LE/TE phase cut dimming	REM = Emergency operation with remote indicator and test switch IEM = Emergency operation with integral indicator and test switch, 60 Hz only (REM and IEM options not available with PD6CP housing)	PDM6A = Downlight LED module for PD6 housing, provides 1,000, 1,500, 2,000, or 3,000 lumens (nominal) depending on connected housing type	827 = 80 CRI, 2700K CCT 927 = 90 CRI, 2700K CCT 830 = 80 CRI, 3000K CCT 930 = 90 CRI, 3000K CCT 836 = 80 CRI, 3500K CCT 935 = 90 CRI, 3500K CCT 940 = 90 CRI, 4000K CCT 940 = 90 CRI, 4000K CCT
	30 = 3,000 lumens (nominal)	D010 = 120-277V 50/60Hz, 0-10V dimming (3,000 lumen only)			

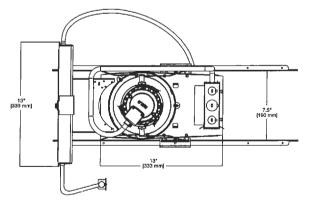
Reference	Finish Option	Flange Option	Accessories
61V = 6" vertical parabolic reflector 61VEM = 6" vertical parabolic reflector for IEM	C = Specular clear G = Specular gold H = Semi-specular clear W = White (white flange) BB = Black baffle (white flange) WB = White baffle (white flange)	Blank = Polished flange standard with C, G & H reflector finishes Blank = White flange standard with W, BB, & WB WF = White flange option available with C, G, & H reflector finishes	HB128APK = L channel hanger bar, 26",

DIMENSIONS





















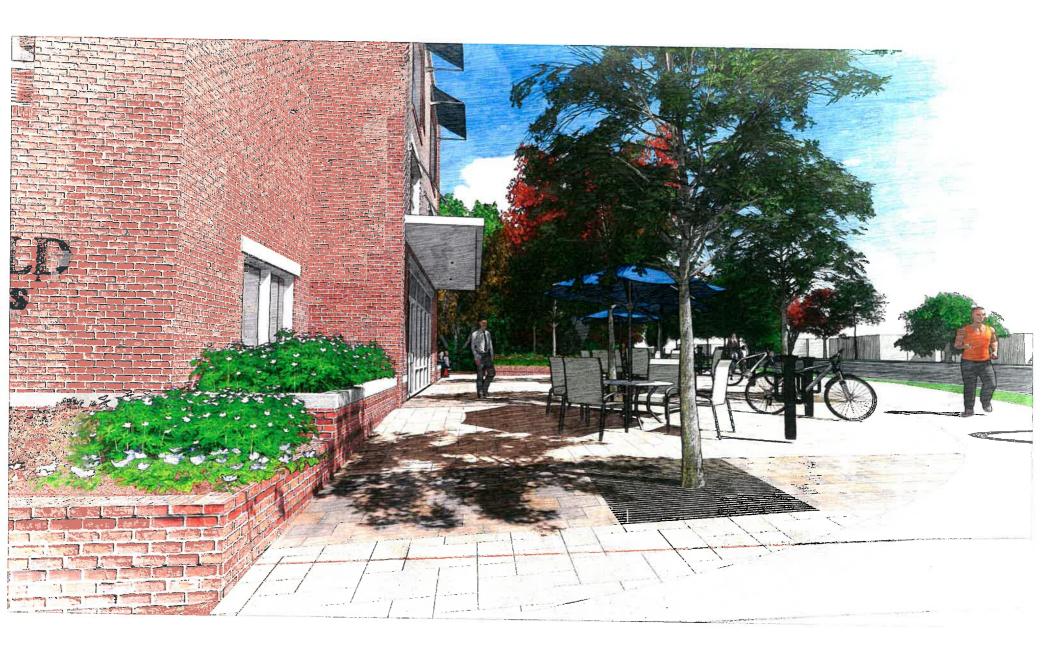






















































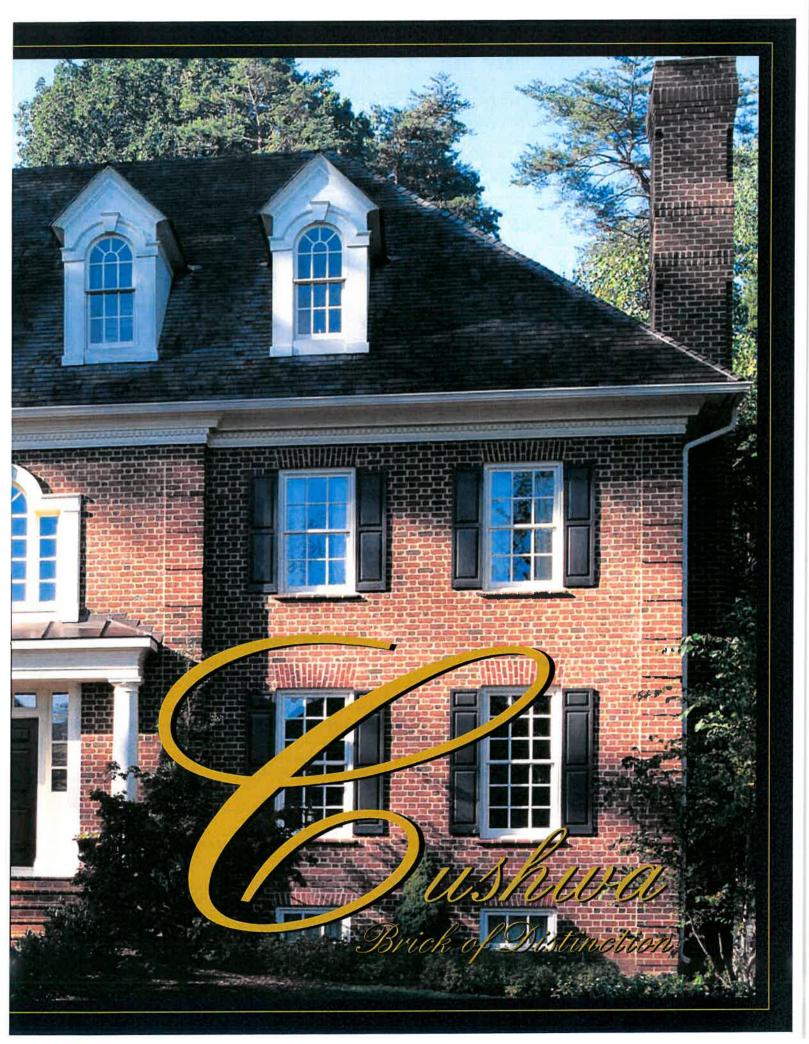






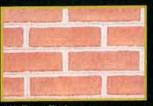






Machine Moulded

The rich texture, color and appeal of Cushwa machine moulded brick enhances the appearance of any building, and creates a classic look that will stand the test of time. Moulded bricks have characteristics that give both residential and commercial exteriors a unique warmth and depth. Cushwa's modern manufacturing processes make machine moulded brick a lasting value for any project.



#10 Rose Red



#30 Rose Full Range



#40 Santa Fe



#60 Cameo Rose



#82 Pastel Rose



#103 Georgian



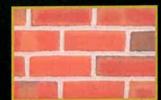
#104 Victorian



#115 Shenandoah



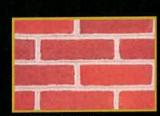
#150 Antietam Blend



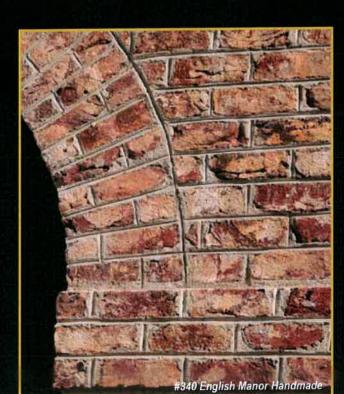
#151 Somerset



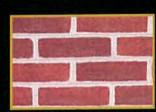
#154 Montgomery



#170 Camden Blend



#237 Cambridge



#238 Lexington



#250 Terra Blend



#312 Provincial



#450 Hunt Valley



#500 Tiber Island







STONE SOLUTIONS

MANUFACTURED BY READING ROCK, INC.





PRODUCT OVERVIEW

12 STANDARD COLORS

Colors available in all textures — ask an associate for details



*Blended Color // * Monotone Color

ASHI AR SERIES



BRINDLE







STONE CREEK

PRAIRIE® STONE

Available in chiseled and smooth.





GRIS







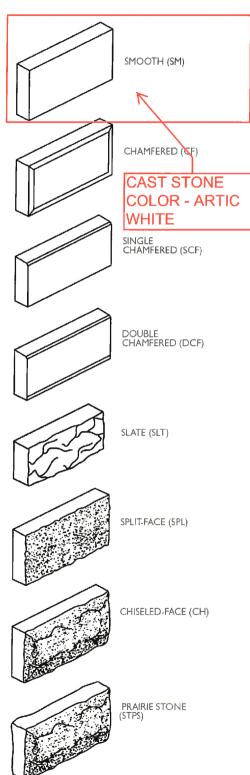


CUSTOM CAPABILITIES

Reading Rock specializes in creating custom colors and is experienced in matching our RockCast architectural stone products to complement existing materials on site. Our manufacturing capabilities provide customers with unlimited color solutions that are sure to meet any design requirement.



SHAPES



PFS PREMIUM FIBERED STUCCO

888.702.9915 www.totalwall.com

Concentrate Premium Fibered Stucco

AMERICA'S EIFS AND STUCCO COMPANY!

TOTAL WALL Premium Fibered Stucco Concentrate is a dry mix containing Portland cement, chopped strand fiberglass reinforcement, micro-fibers for added strength and crack resistance, graded aggregates, and specialty modifiers designed to enhance workability and cure.

TOTAL WALL Premium Fibered Stucco Concentrate requires sand to be added in addition to water.

TOTAL WALL Premium Fibered Stucco Concentrate:

- Can be used as standard stucco or as one-coat, hi-lift stucco.
- Is available in 50# bags in standard gray or in a white finish grade without the larger fibers.
- May be top-coated with TOTAL WALL Premium Fibered Stucco White Finish (Tintable), T-Wall Lastic Elastomeric Coating, or any TOTAL WALL Synthetic Textured Finish Coat.



Features.

- Standard, One-Coat or Hi-Lift
- O High Impact Resistance
- Extremely High Impact Resistance
- Fireproof and Mildew Resistant
- O Pre-Sanded, Just Add Water

Coverage

Estimated Coverage Per 50 LB Bag Of Mix:

55-65 square feet at 1/4"

35-40 square feet at 3/8"

25-30 square feet at 1/2"

20-25 square feet at 5/8"

18-20 square feet at 3/4"

15-18 square feet at 7/8"

product data

Description Mixing Instructions

Add up to 120 punds of clean silica sand per 50 pound bag of Total Wall Premium Fibered Stucco Concentrate, Add approximately 2-3/4 gallons of clean water per batch (50-pound bag of TOTAL WALL Premium Fibered Stucco and 10 punds of sand). Use lowspeed mixing. After initial mixing, allow the mix to stand for 2-5 minutes then remix, adding a small amount of water to adjust workability if necessary. Mix pot-life will vary depending on temperature and batch size. An average pot-life of 40 minutes can be anticipated. TOTAL WALL Premium Fibered Stucco may be re-tempered one time if mix becomes too stiff. Final consistency should be a creamy light and easily trowelable mixture.

Options

- 1. TOTAL WALL Liquid acrylic Additive may be used to replace up to 20% of the mix water during job site mixing. TOTAL WALL Liquid acrylic Additive will improve the physical strength characteristics of the product and reduce the incidence of cracking.
- 2. TOTAL WALL Tinted-Liquid Acrylic Additive may be added to TOTAL WALL Premium Fibered Stucco White Finish to achieve a limited range of pastel colors at the job site.
- 3. TOTAL WALL Synthetic Finishes or T-Wall Lastic may be used for an attractive and durable finish coating. TOTAL WALL Synthetic Finishes and T-Wall Lastic are available in several textures and unlimited colors.

Application

TOTAL WALL Premium Fibered Stucco may be applied directly to sound raw masonry without the use of netting or lath or other reinforcement. If desired or specified, a T-Wall Bonding Agent may be applied to the substrate prior to application. If application is over painted masonry, mechanically fastened lath reinforcement plus joint and trim accessories are required. For wood or gypsum-based sheathing, a moisture barrier is required as the first layer over the

sheathing followed by mechanically fastened lath reinforcement with joint and trim accessories. All lathing must be galvanized and self-furring. Trim accessories must be galvanized, solid zinc or custom PVC components. Apply TOTAL WALL Premium Fibered Stucco using a trowel in one or more passes or lifts to achieve the prescribed thickness. When useful, employ tools such as a darby or slicker to assist in leveling the coating. If TOTAL WALL Liquid Acrylic Additive or Acrylic Tint has been added to the mix. do not moist cure the coating as the acrylic assists in the proper cure process. Coating thickness may range from a minimum of 1/4" and a maximum of 1 1/2". TOTAL WALL Premium Fibered Stucco Finish Coat may be applied once the combination brown and scratch coat base is firm and dry. TOTAL WALL Synthetic Finish may be applied within 18 hours. It is advisable to allow the TOTAL WALL Premium Fibered Stucco to cure at least 48 hours before applying T-Wall Lastic Coating.

Handling and Storage

Do not apply to frozen or saturated surfaces. Do not apply if precipitation is forecast within 8 hours of application. Do not apply if the temperature cannot be maintained above 40F for 24 hours. Shelf life in unopened bags is 12-18 months when stored in dry conditions. Store under cover.

Maintenance

If damage occurs to an installed system, please contact Total Wall for information on repair.

Precautions

This product is a Portland cement based material. Do not ingest. Avoid contact with skin and eyes. In case of contact with product or mix, flush with water. For contact with eyes, get immediate medical attention in addition to flushing. Wear safety glasses and protective clothing. Keep out of reach of children and pets.eyes, get immediate medical attention in addition to flushing. Wear safety glasses and protective clothing.

Limitations

Apply in accordance with standard lath and plastering practices. Do not apply to frozen walls or in temperatures below freezing. Use only clean potable mix water. When possible, schedule work to avoid application in direct sun. Moist curing of product is acceptable unless TOTAL WALL Liquid acrylic Additive has been added.



Technical Data.

Meets ASTM C595 specifications for Blended Hydraulic Cement **Chemistry** - Portland cement meets standard ASTM C150

Aggregates - meet standards ASTM C33, ASTM C144 and ASTM C778 **Hydration Control** - balanced lime blend meets standard ASTM C207

Modifiers - specialty hydrating agents and wetting agents

Reinforcement - natural mineral fibers plus chopped strand fiberglass

Appearance: Dry, gray powder

pH (wet): Approx. 10.5

Density (wet): 1.6-1.8 grams/cc

Chemistry: Portland cement

888.702.9915 Phone 888.702.9916 Fax

www.totalwall.com





SUPERPAINT® Exterior Latex Flat A80-1100 Series

As of 06/30/2015, Complies with:			
ОТС	Yes	LEED® 09 CI	N/A
SCAQMD	Yes	LEED@ 09 NC	N/A
CARB	Yes	LEED® 09 CS	N/A
CARB SCM 2007	Yes	LEED® H	N/A
MPI_		NGBS	N/A

CHARACTERISTICS

SuperPaint Exterior Latex Flat, with improved resistance to early dirt pick up, provides outstanding performance on properly prepared aluminum and vinyl siding, wood, hardboard, masonry, cement, brick, block, stucco, and metal down to a surface and air temperature of 35°F.

VinylSafe™ Color Technology allows the use of many darker colors on vinyl siding that cannot be made in most other coatings.

Color:

Most colors

To optimize hide and color development, always use the recommended P-Shade primer

Coverage:

350 - 400 sq ft/gal @ 4 mils wet; 1.4 mils dry

Drying Time, @ 50% RH:

@ 35-45°F @ 45°F+ 2 hour 2 hours

Touch: 2 hour 2 hours
Recoat: 24-48 hours 4 hours
Drving and recoat times are temperature, humidity,

and film thickness dependent
Flash Point:

Flash Point: N/A
Finish: 0-5 units @ 85°

Tinting with CCE:

Base oz/gal Strength Extra White 0-5 100% Deep Base 4-12 100% Ultradeep Base 4-12 100% Light Yellow 4-12 100% Vehicle Type: Acrylic

Extra White A80W01151 VOC (less exempt solvents):

<50 g/L; <0.42 lb/gal As per 40 CFR 59.406 and SOR/2009-264, s.12

Volume Solids: $36 \pm 2\%$ Weight Solids: $53 \pm 2\%$ Weight per Gallon:11.38 lbWVP Perms (US)30.1

grains/(hr ft² in Hg)

Mildew Resistant

This coating contains agents which inhibit the growth of mildew on the surface of this coating film.

SPECIFICATIONS

SuperPaint Exterior Latex Flat can be self-priming when used directly over existing coatings, or bare drywall, plaster and masonry (with a cured pH of less than 8). The first coat acts like a coat of primer and the second coat provides the final appearance and performance. Please note that some specific surfaces require specialized treatment.

Aluminum & Aluminum Siding¹, Galvanized Steel¹, Vinyl Siding

2 cts. SuperPaint Exterior Latex

Concrete Block, CMU, Split Face Block

1 ct. Loxon Block Surfacer 2 cts. SuperPaint Exterior Latex

Brick

1 ct. Loxon Conditioner²

2 cts. SuperPaint Exterior Latex

Cement Composition Siding/Panels

1 ct. Loxon Concrete & Masonry Primer²

or Loxon Conditioner²

2 cts. SuperPaint Exterior Latex

Stucco, Cement, Concrete

1 ct. Loxon Concrete & Masonry Primer²

2 cts. SuperPaint Exterior Latex

Plywood

1 ct. Exterior Latex Wood Primer 2 cts. SuperPaint Exterior Latex

Wood (Cedar, Redwood)3

1 ct. Exterior Oil-Based Wood Primer²

2 cts. SuperPaint Exterior Latex

On large expanses of metal siding, the air, surface, and material temperatures must be 50°F or higher.
Not for use at temperatures under 50°F. See

Not for use at temperatures under 50°F. See specific primer label for that product's application conditions.

³ Knots and some woods, such as redwood and cedar, contain a high amount of tannin, a colored wood extract. For best results on these woods, use a coat of Exterior Oil-Based Wood Primer.

Other primers may be appropriate. Standard latex primers cannot be used below 50°F. See specific primer label for that product's application conditions.

When repainting involves a drastic color change, a coat of primer will improve the hiding performance of the topcoat color.

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Scrape and sand peeled or checked paint to a sound surface. Sand glossy surfaces dull. Seal stains from water, smoke, ink, pencil, grease, etc. with the appropriate primer/ sealer.

Aluminum and Galvanized Steel

Wash to remove any oil, grease, or other surface contamination. All corrosion must be removed with sandpaper, wire brush, or other abrading method.

Cement Composition Siding/Panels

Remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. If the surface is new, test it for pH, if the pH is higher than 8, prime with Loxon Concrete & Masonry Primer.



SUPERPAINT® Exterior Latex Flat A80-1100 Series

SURFACE PREPARATION

Masonry, Concrete, Cement, Block

All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces can be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete & Masonry Primer. Cracks, voids, and other holes should be repaired with an elastomeric patch or sealant.

Steel

Rust and mill scale must be removed using sandpaper, wire brush, or other abrading method. Bare steel must be primed the same day as cleaned.

Stucco

Remove any loose stucco, efflorescence, or laitance. Allow new stucco to cure at least 30 days before painting. If painting cannot wait 30 days, allow the surface to dry 7 days and prime with Loxon Concrete & Masonry Primer. Repair cracks, voids, and other holes with an elastomeric patch or sealant.

Vinyl

Clean the surface thoroughly by scrubbing with warm, soapy water. Rinse thoroughly.

Wood, Plywood, Composition Board

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth. All patched areas must be primed.

Caulking

Gaps between windows, doors, trim, and other through-wall openings can be filled with the appropriate caulk after priming the surface.

SURFACE PREPARATION

Mildew

Remove before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach/water solution.

APPLICATION

When the air temperature is at 35°F, substrates may be colder; prior to painting, check to be sure the air, surface, and material temperature are above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours.

Do not apply at air or surface temperatures below 35°F or when air or surface temperatures may drop below 35°F within 48 hours.

No reduction necessary.

Brush

Use a nylon/polyester brush.

Roller

Use a 3/8" - 3/4" nap synthetic cover. **Sprav—Airless**

Spray—Airiess

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with a compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

CAUTIONS

For exterior use only.
Protect from freezing.
Non-photochemically reactive.
Not for use on floors.

CAUTION contains CRYSTALLINE SILICA and ZINC. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH) approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. FIRST AID: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm, DO NOT TAKE INTERNALLY, KEEP OUT OF THE REACH OF CHILDREN.

HOTW 06/30/2015 A80W01151 29 36

Viet, KOR

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative or visit www.paintdocs.com to obtain the most current version of the PDS and/or an SDS.



SW 6349 Pennywise

Interior / Exterior

Locator Number: 125-C6

STUCCO COLOR AT PARKING GARAGE (SEE RENDERINGS)









Color Details

Color Family: Oranges RGB Value: R-162 | G-88 | B-58 Hexadecimal Value: #A2583A

LRV: 15

Due to individual computer monitor limitations, colors seen here may not accurately reflect the selected color. To confirm your color choices, visit your neighborhood Sherwin-Williams store and refer to our in-store color cards.





STORE NEAR YOU

491 FACTORY ST Watertown, NY 13601-2765 (315) 788-3130 NOTES:

FAVORITE STORE

491 FACTORY ST Watertown, NY 13601-2765 (315) 788-3130

We can also be reached by phone at: 1-800-4-SHERWIN (1-800-474-3794)





SW 7046 Anonymous



Color Details

Color Family: Neutrals RGB Value: R-129 | G-122 | B-110 Hexadecimal Value: #817A6E LRV: 20

Due to individual computer monitor limitations, colors seen here may not accurately reflect the selected color. To confirm your color choices, visit your neighborhood Sherwin-Williams store and refer to our in-store color cards.

STORE NEAR YOU

FAVORITE STORE

491 FACTORY ST Watertown, NY 13601-2765 (315) 788-3130

491 FACTORY ST Watertown, NY 13601-2765 (315) 788-3130 NOTES:

We can also be reached by phone at: 1-800-4-SHERWIN (1-800-474-3794)





SW 6122 Camelback



NOTES:

Color Details

Color Family: Yellows RGB Value: R-197 | G-170 | B-133 Hexadecimal Value: #C5AA85

LRV: 42

Due to individual computer monitor limitations, colors seen here may not accurately reflect the selected color. To confirm your color choices, visit your neighborhood Sherwin-Williams store and refer to our in-store color cards.

STORE NEAR YOU

491 FACTORY ST Watertown, NY 13601-2765 (315) 788-3130

FAVORITE STORE

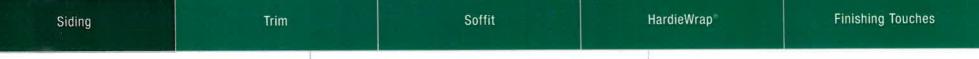
491 FACTORY ST Watertown, NY 13601-2765 (315) 788-3130

We can also be reached by phone at: 1-800-4-SHERWIN (1-800-474-3794)









HardiePlank® Lap Siding

HardiePanel® Vertical Siding

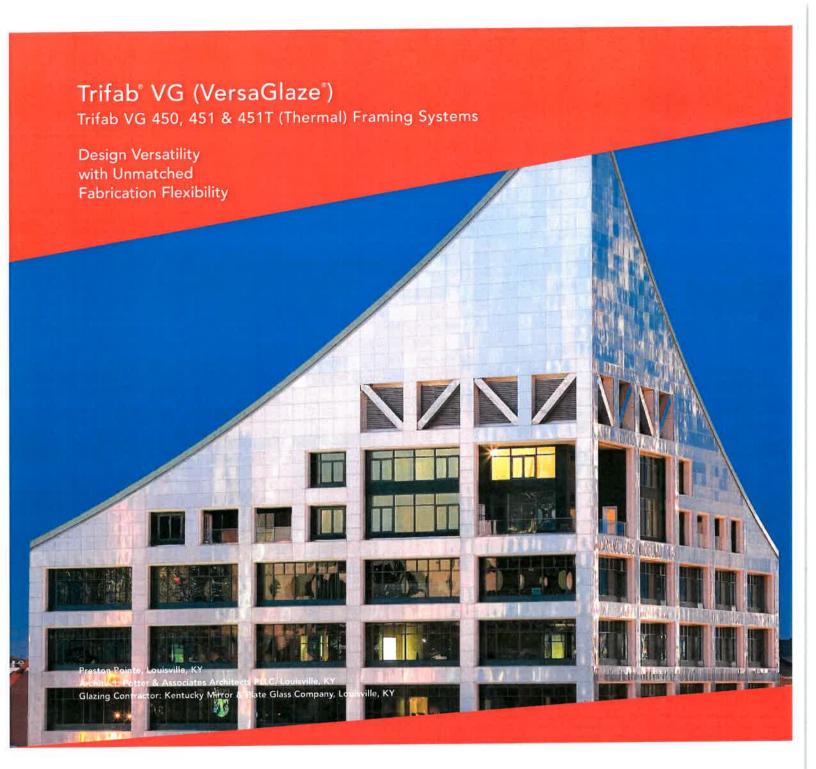
HardieShingle® Siding



*Beaded Smooth not available primed in Pittsburgh, Philadelphia and New England.



PRODUCTS



Trifab® VG (VersaGlaze) is built on the proven and successful Trifab platform — with all the versatility its name implies. Trifab set the standard and Trifab® VG improves upon it. There are enough fabrication, design and performance choices to please the most discerning building owner, architect and installer. Plus the confidence a tried and true framing system instills. Select from four glazing applications, four fabrication methods and multiple infill choices. Consider thermal options and performance, SSG and Weatherseal alternatives and your project takes an almost custom shape whether your architecture is traditional or modern and the building is new or retrofitted.

Aesthetics

Trifab® 450 has 1-3/4" sight lines and both Trifab® 451 and Trifab® 451T have 2" sight lines, while all three have a 4-1/2" frame depth. Designers can not only choose front, center or back glass planes, they can now add the versatility of multi-plane glass applications, thus allowing a greater range of design possibilities for specific project requirements and architectural styles. Structural Silicone Glazing (SSG) and Weatherseal options further expand the designer's choices.



Trifab® VG can be used on almost any project due to virtually seamless incorporation of Kawneer entrances, Sealair® windows or GLASSvent™ for visually frameless ventilators. These framing systems can also be packaged with Kawneer curtain walls and overhead glazing, thereby providing owner, architect and installer with proven, tested and quality products from a single source supplier.

Economy

Trifab® VG offers four fabrication choices to suit your project:

- Screw Spline for economical continuous runs utilizing two piece vertical members. Provides the option to pre-assemble units with controlled shop labor costs and smaller field crews for handling and installation.
- Shear Block for punched openings or continuous runs using tubular moldings. Provides the option to pre-assemble multi-lite units using shear block clips under controlled shop labor conditions. Clips provide tight joints for transporting large units.
 Less field time is necessary to fill large openings.
- Stick for fast, easy field fabrication. Field measurements and material cuts can be done when metal is on the job.
- Type B for multi-lite punched openings. Provide option for pre-assembled units for installation into single openings and controlled shop labor costs. Head and sill running through provide fewer joints and require less time to fill large openings.



Brighton Landing, Cambridge, MA Architects: ADD Inc., Cambridge, MA Glazing Contractors: Ipswich Bay Glass Company,Inc., Rowley, MA

Trifab® VG 450, 451 and 451T can be flush glazed from either the inside or outside. The Weatherseal option provides an alternative to the structural silicone glazed mullions. vertical ABS/ASA rigid polymer extrusion allows complete inside glazing and creates a flush glass appearance on building exterior, without the added labor of scaffolding or swing stages. Optional patented HP Flashing™ and HP Interlock

clip are engineered to eliminate the perimeter sill fasteners and their associated blind seals and are compatible with all glass planes.

Performance

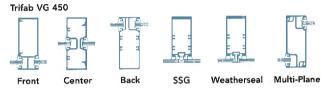
Kawneer's IsoLock™ Thermal Break option is available on Trifab* VG 451T.

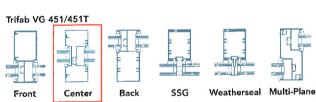
This process creates a composite section and prevents dry shrinkage.

U-factor, CRF values and STC ratings for Trifab® VG vary depending upon the glass plane application. Project specific U-factors can now be determined for each individual project. (See Kawneer Architectural Manual or Website for additional information)

Performance Test Standards

Air Performance ASTM E 283
Water AAMA 501 and ASTM E 331
Structural ASTM E 330
Thermal AAMA 1503
Thermal Break AAMA 505 and AAMA TIR-A8
Acoustical AAMA 1801 and ASTM E 1425





Finishes

Permadonic Anodized finishes are available in Class | and Class || in seven different colors.

Painted Finishes, including fluoropolymer that meet or exceed AAMA 2605, are offered in many standard choices and an unlimited number of specially-designed colors.

Solvent-free powder coatings add the "green" element with high performance, durability and scratch resistance that meet the standards of AAMA 2604.

Kawneer Company, Inc. Technology Park / Atlanta 555 Guthridge Court Norcross, GA 30092 kawneer.com 770 - 449 - 5555







EC 97911-43 FEATURES

Features

- Trifab® VG 451/451T is 4-1/2" deep with a 2" sightline
- Front, Center, Back or Multi-Plane glass applications
- Flush glazed from either the inside or outside
- Screw Spline, Shear Block, Stick or Type-B fabrication
- SSG / Weatherseal option
- Isolock® lanced and debridged thermal break option with Trifab® VG 451T
- Infill options up to 1-1/8" thickness
- Permanodic® anodized finishes in 7 choices
- Painted finishes in standard and custom choices

Optional Features

- High performance interlocking flashing
- Acoustical rating per AAMA 1801 and ASTM E 1425
- Project specific U-factors (See Thermal Charts)

Product Applications

- Storefront, Ribbon Window or Punched Openings
- Single-span
- Integrated entrance framing allowing Kawneer standard entrances or other specialty entrances to be incorporated
- Kawneer Sealair® windows or GLASSvent® are easily incorporated

For specific product applications, Consult your Kawneer representative.



DETAILS

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

EC 97911-43

PICTORIAL VIEWS	5-9
CENTER	. 11-22
CENTER (LARGE MISSLE IMPACT)	. 23-25
FRONT	. 27-42
BACK	. 43-49
MULTI-PLANE	. 51-57
CHARTS (WINDLOAD DEADLOAD END REACTION & THERMAL)	50-08

LAWS AND BUILDING AND SAFETY CODES GOVERNING THE DESIGN AND USE OF GLAZED ENTRANCE, WINDOW, AND CURTAIN WALL PRODUCTS VARY WIDELY, KAWNEER DOES NOT CONTROL THE SELECTION OF PRODUCT CONFIGURATIONS, OPERATING HARDWARE, OR GLAZING MATERIALS, AND ASSUMES NO RESPONSIBILITY THEREFOR.

Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses () are millimeters unless otherwise noted.

The following metric (SI) units are found in these details:

m - meter

cm - centimeter

mm - millimeter

s - second

Pa - pascal

MPa - megapascal

Kawneer reserves the right to change configurations without prior notice when deemed necessary for product improvement.

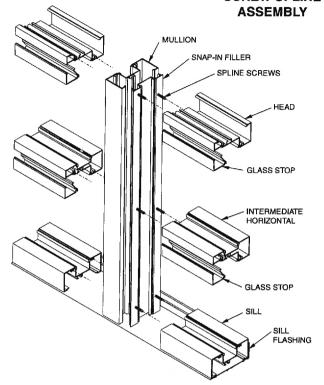


PICTORIAL VIEW (CENTER)

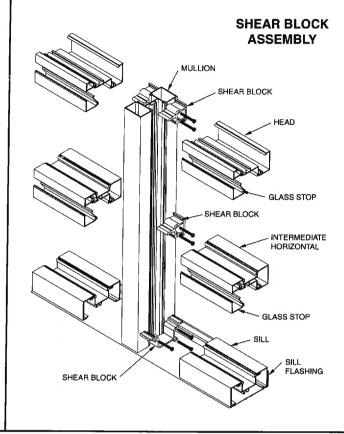
DETAILS

The split vertical in the Screw Spline system allows a frame to be installed from unitized assemblies. Screws are driven through the back of the verticals into splines extruded in the horizontal framing members. The Individual units are then snapped together to form a complete frame.

SCREW SPLINE ASSEMBLY MULLION



The Shear Block system of fabrication allows a frame to be preassembled as a single unit. Horizontals are attached to the verticals with shear blocks.



STICK **ASSEMBLY** MULLION HEAD RECEPTOR HEAD INSERT GLASS STOP SHEAR BLOCK INTERMEDIATE HORIZONTAL GLASS STOP SILL INSERT SILL RECEPTOR

The Stick system allows on-site construction. Head and sill receptors are fastened to the surround. Vertical mullions are then installed in these receptors and are held in place by snap-in inserts. Intermediate horizontal members are attached to the verticals with shear blocks. Flashing is not required.

If the end reaction of the mullion (mullion spacing (ft.) times height (ft.) times specified windload (psf) divided by two) is more than 500 lbs., the optional mullion anchors must be used. (See page 14)

As and building and safety codes governing the design and use of glazed rance, window, and curtain wall products vary widely, Kawneer does not control selection of product configurations, operating hardware, or glazing materials, assumes no responsibility therefor.

DETAILS

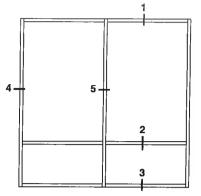
BASIC FRAMING DETAILS (CENTER - Outside Glazed)

EC 97911-43

SCALE 3" = 1'-0"

*Note: See Misc. Details for Thermal Pocket Filler

and Thermal Flashing.

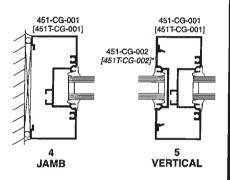


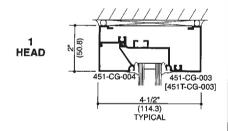
ELEVATION IS NUMBER KEYED TO DETAILS

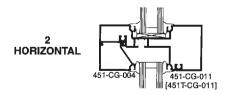
NUMBERS IN BRACKETS ARE THERMALLY BROKEN MEMBERS

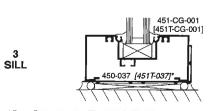
SCREW SPLINE

CAD Details (TF451) = TF_VG_451-SS-Center-CAD.zip (TF451T) = TF_VG_451T-SS-Center--CAD.zip





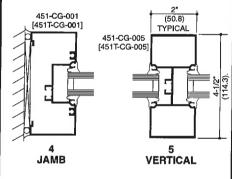


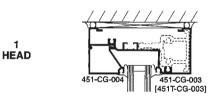


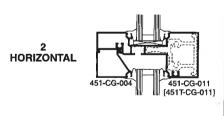
*See Page 14 for Thermal Flashing and Optional High Performance Flashing

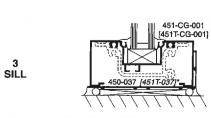
SHEAR BLOCK

CAD Details (TF451) = TF_VG_451-SB-Center--CAD.zip (TF451T) = TF_VG_451T-SB-Center--CAD.zip





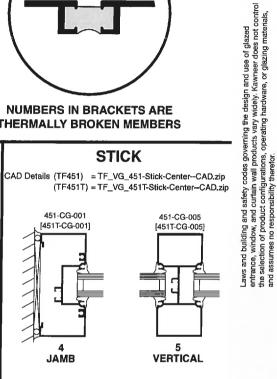


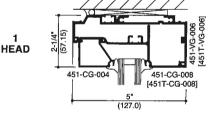


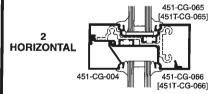
*See Page 14 for Thermal Flashing and Optional High Performance Flashing

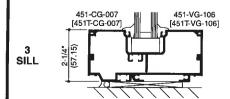
STICK

CAD Details (TF451) = TF_VG_451-Stick-Center--CAD.zip (TF451T) = TF_VG_451T-Stick-Center--CAD.zip









Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© Kawneer Company, Inc., 2012

KAWNEER

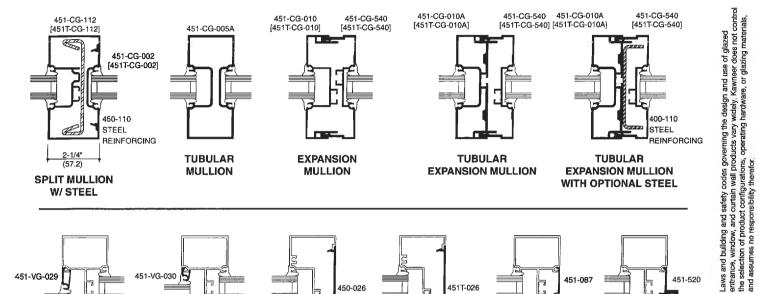
kawneer.com

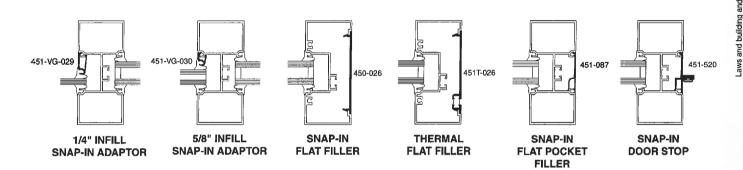
MISCELLANEOUS FRAMING (CENTER)

EC 97911-43

SCALE 3" = 1'-0"

CAD Details - SCREW SPLINE (TF451) = TF_VG_451-SS-Center--CAD.zip (TF451T) = TF_VG_451T-SS-Center--CAD.zip CAD Details - SHEAR BLOCK (TF451) = TF_VG_451-SB-Center--CAD.zip (TF451T) = TF_VG_451T-SB-Center--CAD.zip CAD Details - STICK (TF451) = TF_VG_451-Stick-Center--CAD.zip (TF451T) = TF_VG_451T-Stick-Center--CAD.zip

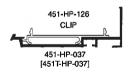






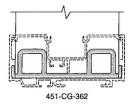
THERMAL POCKET FILLERS

451T-037



THERMAL FLASHING

HIGH PERFORMANCE **FLASHING**

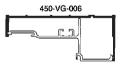


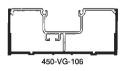
MULLION ANCHOR

NOTE:

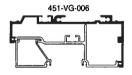
If the end reaction of the mullion (mullion spacing (ft.) times height (ft) times specified windload (psf), divided by two) is more than 500 LBS., the optional mullion anchor must be used, Consult Application Engineering.

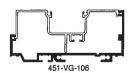
Mullion Anchor not used with Lightwieght Receptor.





OPTIONAL LIGHTWEIGHT CAN RECEPTORS





OPTIONAL UNEQUAL LEG CAN RECEPTORS

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product Improvement.

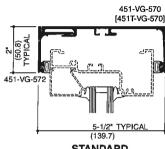
© Kawneer Company, Inc., 2012



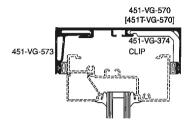
15

SCALE 3" = 1'-0"

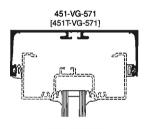
CAD Details - **SCREW SPLINE** (TF451) = TF_VG_451-SS-Center-CAD.zip (TF451T) = TF_VG_451T-SS-Center--CAD.zip CAD Details - SHEAR BLOCK (TF451) = TF_VG_451-SB-Center--CAD.zip (TF451T) = TF_VG_451T-SB-Center--CAD.zip CAD Details - STICK (TF451) = TF_VG_451-Stick-Center--CAD.zip (TF451T) = TF_VG_451T-Stick-Center--CAD.zip



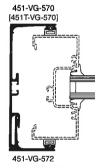
STANDARD HEAD COMPENSATING RECEPTOR



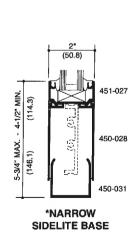
HEAVY WEIGHT
HEAD
COMPENSATING RECEPTOR

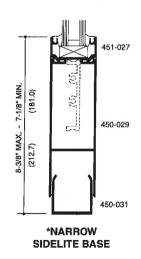


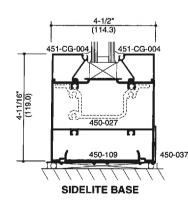
ONE PIECE
HEAD
COMPENSATING RECEPTOR

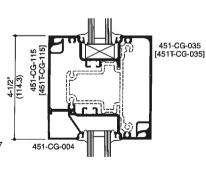


JAMB
COMPENSATING RECEPTOR









4-1/2" x 4-1/2" HORIZONTAL

SIDELITE BASES ARE NON-THERMAL APPLICATIONS

*NARROW SIDELITE BASES REQUIRE THE USE OF NON-THERMAL 2-PIECE VERTICALS ONLY.

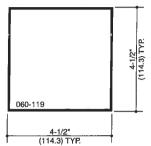
NOTE: SIDELITE BASES SHOWN ARE FOR USE WITH SCREW SPLINE AND SHEAR BLOCK SYSTEMS ONLY.

CORNERS (CENTER)

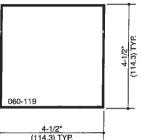
EC 97911-43

SCALE 3" = 1'-0"

CAD Details - SCREW SPLINE (TF451) = TF_VG_451-SS-Center-CAD.zip (TF451T) = TF_VG_451T-SS-Center--CAD.zip



4-1/2" X 4-1/2" TUBE





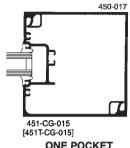
(TF451) = TF_VG_451-SB-Center--CAD.zip

(TF451T) = TF_VG_451T-SB-Center--CAD.zip

CAD Details - SHEAR BLOCK

TWO PIECE NO POCKET CORNER



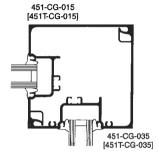


(TF451) = TF_VG_451-Stick-Center-CAD.zip

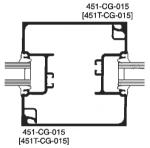
(TF451T) = TF_VG_451T-Stick-Center--CAD,zip

CAD Details - STICK

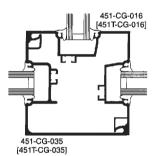
ONE POCKET CORNER



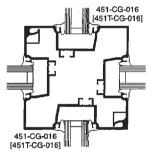
TWO POCKET 90° CORNER



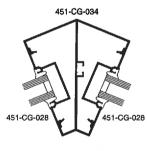
TWO POCKET CORNER POST



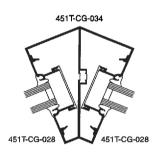
THREE POCKET 90° CORNER



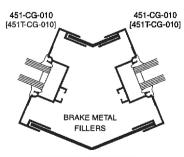
FOUR POCKET 90° CORNER



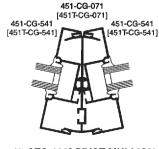
135° CORNER (NON-THERMAL)



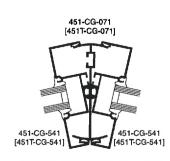
135° CORNER (THERMAL)



VARIABLE DEGREE BRAKE METAL CORNER



155° TO 180° PIVOT MULLION (OUTSIDE CORNER)



155° TO 180° PIVOT MULLION (INSIDE CORNER)

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© Kawneer Company, Inc., 2012

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

ENTRANCE FRAMING (CENTER)

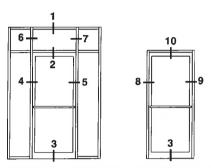
SCALE 3" = 1'-0"

CAD Details - ENTRANCE (TF451) = TF_VG_451_Ent-Center--CAD.zip (TF451T) = TF_VG_451T_Ent-Center-CAD.zip

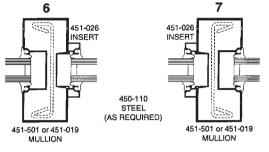
TRIFAB® VG 451 FRAMING INCORPORATING KAWNEER® "190" DOORS. DOOR FRAMING NON-THERMAL ONLY

NOTE: OTHER TYPES OF KAWNEER DOORS MAY BE USED WITH THIS FRAMING SYSTEM.

SEE ENTRANCE DETAILS FOR ADDITIONAL INFORMATION.

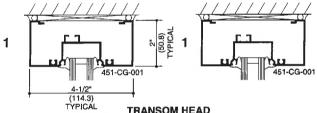


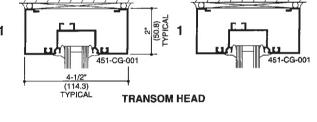
ELEVATIONS ARE NUMBER KEYED TO DETAILS

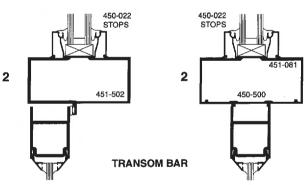


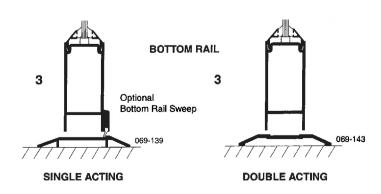
TRANSOM JAMBS

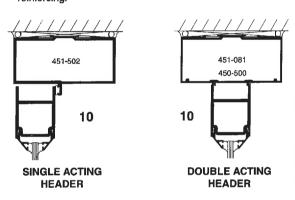
Transom area for both double or single acting doors with glass surround. Jambs above transom bar are routed out to accept glass holding insert with or without steel reinforcing.

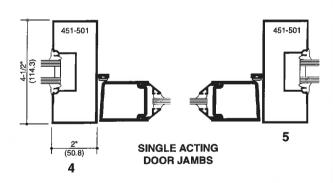


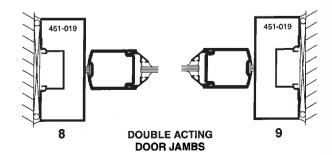












Laws and building and safety codes governing the design and use of glazed entrance, window, and cutrian wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© Kawneer Company, Inc., 2012



Traco TR-6800 Horizontal Sliding **Architectural Thermal Window** Clean Lines Meet Robust Thermal Performance Residences on the Avenue (Square 54) | 2200 Pennsylvania Avenue, Washington, D.C. Architect: Hickok Cole Architects, Washington, D.C. & Pelli Clarke Pelli Architects, New York nstaller: Engineered Construction Products, Ltd., Frederick, Ma hy: © Marilyn Ott-Close / Progress Photo

Choose a window that is at home virtually anywhere. The simple, clean design of Traco TR-6800 Horizontal Sliding Architectural Thermal Windows blend seamlessly with a variety of architectural styles. The clean sightlines are as appealing in apartment buildings as they are in classrooms or municipal buildings. An excellent option for mixed-use construction, these windows let the true personality of any project shine through.

The sturdy, weather-resistant aluminum construction, combined with insulating glass, provides robust thermal performance. With optional internal or exterior muntins, the contemporary good looks of this window can be easily transformed to a more traditional appearance. Easy to operate and easy to maintain, Traco TR-6800 Horizontal Sliding Architectural Thermal Windows continue to perform long after installation, adding comfort and beauty to any project.



Performance

Traco TR-6800 Horizontal Sliding Architectural Thermal Windows are manufactured with long-lasting finishes and durable hardware to stand up to the effects of daily operation and seasonal weather extremes. Designed to meet current building codes and high quality standards, Traco TR-6800 windows have been tested in accordance with AAMA/WDMA/CSA 101/I.S.2 and A-440-08 designations. Adding to the performance features of this window is a weep system that ensures water drains to the exterior. Sturdy aluminum construction ensures that Traco TR-6800 windows will not rot, warp or buckle when exposed to weather or moisture.

Model	Traco TR-6800
Function	Single Horizontal Sliding
Frame Depth	3-1/4"
AAMA/WDMA/CSA 101/l.S.2/A-440-08 DESIGNATION	AW-PG50-HS
Water Resistance (psf)	10
U-Factor (per NFRC 100)	0.45

Operation and Maintenance

The simple beauty of Traco TR-6800 Horizontal Sliding Architectural Thermal Windows are carried through to their easy operation. Full-height pull handles allow comfortable, accurate sash operation from the window sill. Precision engineering allows the rolling sash to move freely, yet the window seals tightly when closed. Adjustable wheels ensure proper sash alignment for a window that always moves smoothly. For safety and security, black zinc automatic locks are standard.

After removing the anti-takeout stop, the sashs lift out virtually without effort, providing for easy maintenance and cleaning from the interior. If it is desired or necessary to change hardware, it may be replaced with standard tools.

Aesthetics and Versatility

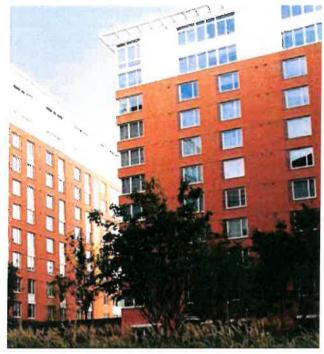
With several configurations available, these versatile windows feature a 3-1/4" frame depth for an aesthetically pleasing narrower interior to exterior transition. Options for single-glazed or double-glazed windows, along with exterior or internal muntins, expand design possibilities for this architectural-grade window.

Traco TR-6800 Horizontal Sliding Architectural Thermal Windows offer several standard features, including:

- Sash: X = operating; O = fixed;
 primary = interior; secondary = exterior
- 1" insulating glass
- Adjustable wheels
- · Black zinc automatic lock; XO or OX (specify choice)

For enhanced design flexibility, additional options are available for Traco TR-6800 windows, including:

- OXO (specify slide direction); XOX
- Full protection, half insect or full insect exterior screens
- Exterior or internal muntins
- Single glazing, to a maximum of 1/4"
- Dual glazing (split sash), to a maximum of 1/4"



Residences on the Avenue (Square 54)
2200 Pennsylvania Avenue, Washington, D.C.
Architect: Hickok Cole Architects, Washington, D.C. & Pelli Clarke Pelli
Architects, New York, New York
Window Installer: Engineered Construction Products, Ltd., Frederick, Maryland
Photography:

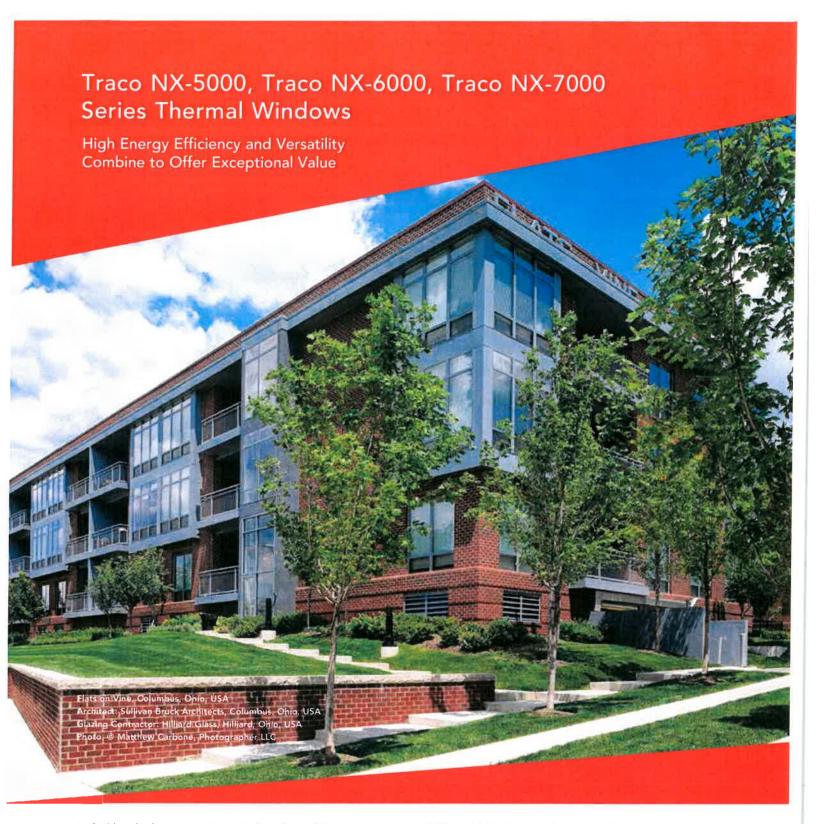
Marilyn Ott-Close / Progress Photo

Kawneer Company, Inc. 555 Guthridge Court Norcross, GA 30092 770 . 449 . 5555 TEL

kawneer.com kawneergreen.com 770 449 5555







As building budgets grow increasingly tight, architects, owners and facility managers look for solutions that will lower operating costs while offering aesthetic appeal and energy efficiency. The Traco NX-5000, Traco NX-6000 and Traco NX-7000 Series Thermal Windows are a revolutionary product series for the commercial market segment designed to deliver the thermal performance and versatility required by today's demanding market.

Available in a range of configurations, the 3-1/4" deep series offers increased design flexibility and enhanced daylighting. With exceptional value and outstanding air and water performance, the Traco NX-5000, Traco NX-6000 and Traco NX-7000 Series Thermal Windows are the perfect fit for new or retrofit construction in the commercial, institutional and multi-family segments.



Performance

The Traco NX-5000, Traco NX-6000 and Traco NX-7000 Series Thermal Windows combine the longevity and structural integrity of aluminum with exceptional U-values. By incorporating the high-performance energy spacer and high-performance thermal barrier system, these windows offer outstanding energy efficiency and increased comfort for occupants.

Thermal efficiency also makes the windows ideal for buildings seeking to earn LEED^{®*} (Leadership in Energy and Environmental Design) certification with the U.S. Green Building Council. Made from aluminum, these high-performing windows offer unlimited finish options, installation flexibility and sustainable benefits such as recyclability. Furthermore, the window will never rot, warp or buckle due to moisture and weather exposure.

The series includes various hung and sliding configurations and has been tested in accordance with AAMA/WDMA/CSA 101/I.S.2 and A-440-08 designations.

MODEL	FUNCTION	AAMA/WDMA/ CSA 101/I.S.2 A-440-08 DESIGNATION	WATER RESISTANCE	UNIFORM LOAD STRUCTURAL	U-FACTOR (PER NFRC 100)
TRACO NX-5000	DOUBLE HUNG TILT	CW-PG50-H	10 PSF	50 PSF	0.38
TRACO NX-5400	SINGLE HUNG TILT	CW-PG50-HS	10 PSF	45 PSF	0.37
TRACO NX-6000	DOUBLE SLIDE	CW-PG50-HS	10 P\$F	50 PSF	0.39
TRACO NX-6400	SINGLE SLIDE	CW-PG50-HS	10 PSF	45 PSF	0.36
TRACO NX-7400	FIXED	CW-PG50-FW	10 PSF	50 PSF	0.32

Fabrication and Installation

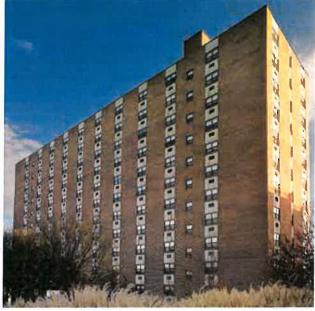
A range of installation options are available for the windows, including snap-in nailing fin, trim and clip, preset panning, wraparound panning, receptor, sub sills and more.

Aesthetics and Versatility

The 3-1/4" deep commercial window's configuration options offer increased design flexibility for a range of applications. A dual color option provides the flexibility to vary interior and exterior finishes.

All configurations come with muntins and grid options. Extruded aluminum screens (either half or full) are available on the full range of windows.

The window series can fit the aesthetics of almost any project with reliability, affordability and thermal performance.



Overmont House, Philadelphia, Pennsylvania, USA Glazing Contractor: Graboyes Commercial Window Company, Philadelphia, Pennsylvania, USA



kawneer.com kawneergreen.com 770 - 449 - 5555





Permacoat™ Powder Coatings

Solvent-Free Finishes That Add High Performance, Durability And More "Green" To Your World



KAWNEER AN ALCOA COMPANY

Permadize® Hardcoat Finishes

Highlight Your Architectural Achievements



Today's Technology for Tomorrow's Environment Independently Certified to Meet AAMA 2604

As communities throughout the world recognize the need to preserve natural resources, governments have imposed stricter safety controls and increased pressure to reduce emissions such as paint solvents into the atmosphere. Building owners and architects have responded to these environmental concerns while also requiring higher performance, superior durability and more color choices for their projects.

Kawneer now offers a solution – Permacoat™ Powder Coatings – for new or remodel projects requiring a solvent-free finish that:

- Meets the exacting requirements of AAMA 2604
- Demonstrates outstanding gloss and color retention
- Complies with most environmental regulations
- Provides optimal corrosion resistance
- Exhibits durability, excellent mechanical properties and abrasion resistance
- Competes with solvent-based paints in all respects
- Offers standard and custom finish colors
- Offers higher gloss levels contact your Kawneer Sales Representative for information
- Offers additional custom shades subject to technical approval

Performance Table

Mechanical Performance	AAMA 2604 Reference	Perma	coat Performance	
Dry Film Hardness	Section 7.3	Pass	Н	
Dry Film Adhesion	Section 7.4.1.1	Pass	No film disbondment	
Impact Resistance	Section 7.5	Pass	No film disbondment	
Abrasion Resistance	Section 7.6	Pass	>20 liters per mil	
Chemical Resistance	AAMA 2604 Reference	Perma	coat Performance	
Muriatic Acid Resistance	Section 7.7.1	Pass	No visual change or blistering	
Mortar Resistance	Section 7.7.2	Pass	No visual change or loss of adhesion	
Nitric Acid Resistance	Section 7.7.3	Pass	Color change ≤5∆E (Hunter)	
Detergent Resistance	Section 7.7.4	Pass	No film removal or blistering	
Corrosion Tests	AAMA 2604 Reference	Permacoat Performance		
Wet Adhesion	Section 7.4.1.2	Pass	No film removal or blistering	
Boiling Water Adhesion	Section 7.4.1.3	Pass	No film removal or blistering	
Humidity Resistance	Section 7.8.1	Pass	No blisters > "few No.8 (ASTM D 714)	
Salt Spray Resistance	Section 7.8.2	Pass	<1.6 mm creep from scribe	
Weathering 5 Years Florida	AAMA 2604 Reference	Permac	oat" Performance	
Color Retention	Section 7.9.1.2	Pass	Color change ≤5 <u>A</u> E (Hunter)	
Chalking Resistance	Section 7.9.1.3	Pass No more than No.8 rating (ASTM D 4214		
	C 1: 7011	Pass	> 200/	
Gloss Retention	Section 7.9.1.4	rass	≥ 30% gloss retention	

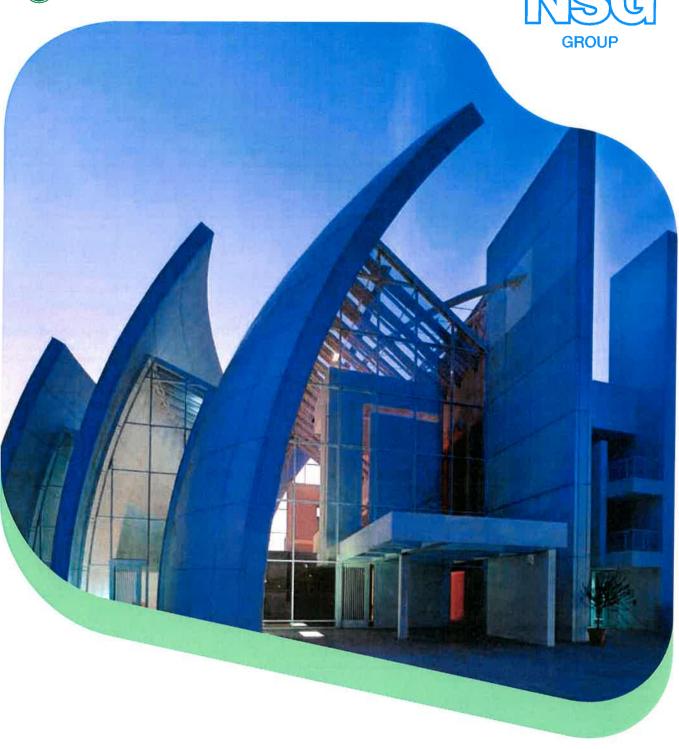
Note: These color samples are as close as possible to actual colors offered within the limitations of printing techniques. Final color specification shall be as per approved color samples



Kawneer Company, Inc. Technology Park / Atlanta 555 Guthridge Court Norcross, GA 30092 kawneer.com 770 = 449 = 5555







Low-e 4th Surface Commercial Technology Pilkington **Energy Advantage**™ Low-e



Low-e 4th Surface Commercial Technology with Pilkington **Energy Advantage™** Low-e.

Lower U-factor • Improved Clarity • Greater Energy Savings.

For additional information visit www.pilkington.us/technicalbulletins:

- ATS 193 Low-e 4th Surface Technology: Guidelines for use
- ATS 137-4 Improvements in the Appearance of Installed Pilkington **Energy Advantage™**
- ATS 138 How Low-e Glass Works
- ATS 138-D Window Energy Efficiency with Multiple Low-e Coatings

Here's how it works.

Pilkington **Energy Advantage™** Low-e coatings applied to the #2 and #4 surfaces of an insulating unit reduce the center of glass U-factor by about 20%, compared to an IGU with a pyrolytic low-e and an uncoated clear lite. This proven technology improves thermal performance in a new or reglazed commercial building.

Durability is critical for coatings applied to the 4th surface of an insulating unit. Pyrolytic coatings are extremely durable and difficult to damage. Pilkington pyrolytic coating technology has been used on exposed surfaces successfully for over 20 years globally.

With superior clarity, unrivaled by any other pyrolytic glass, Pilkington **Energy Advantage™** has been used for more than 10 years in North America as a 4th Surface Low-e product.

Features and Benefits

- Durability of a pyrolytic
- Low U-factor and reduced solar heat gain
- Superior thermal control
- Improved clarity
- High light transmittance
- Energy savings
- Easy to clean surface with standard techniques
- Superior aesthetics for any building
- Can help projects achieve LEED® credit
- No additional SKUs

Enhanced thermal performance without investing in triple-pane windows.

- Fewer low-e products to inventory, with installation on #2 and #4 surfaces
- No additional raw materials required
- No additional capital investments necessary

Easily integrated into current fabrication process

Lighter construction

Less reflection than with triple glazing

- Durability of a pyrolytic
- No edge deletion required for an IGU
- Easily handled, tempered, cut, bent, laminated,

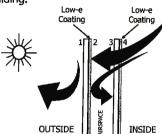
insulated and heat-strengthened

Virtually unlimited shelf-life

How is glazing performance improved?

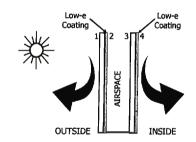
Cold Weather Conditions

The coating on the #2 surface reduces room heat (or far IR energy) loss by reflecting it back toward the space. By adding a second low-e coating to the #4 surface the thermal insulation is further improved. More infrared heat (room heat) is reflected back into the building.



Warm Weather Conditions

The low-e coating on the #4 surface reflects more solar heat than one lite of low-e glass, reducing cooling loads.





Pyrolytic Power

Pilkington **Energy Advantage™** Low-e is coated using a pyrolytic process, which allows for the coating to be chemically-bonded to the glass at a molecular level. This process produces a coating which is extremely durable and will not scratch or degrade over time. The coating has been used globally for over 20 year with proven success.

Sliding Door Besam SL500 EcoDoor™

ASSA ABLOY

ASSA ABLOY Entrance Systems

The global leader in door opening solutions



Automatic Sliding Door Solutions For Sustainable Buildings



Entrance automation is the first step to managing excessive energy usage. ASSA ABLOY Entrance Systems intelligent products provide a range of options to help minimize energy loss, improve indoor air quality, increase daylight, control air circulation, and optimize the overall energy performance of any building

The Besam SL500 EcoDoor is available with a variety of configurations and features to help you meet your

sustainability goals. Whether air infiltration reduction, energy consumption savings, improved customer comfort or compliance with energy codes such as ASHRAE 90.1. there's a Besam SL500 EcoDoor configuration to suit your needs.

Consult the architectural SpecDesk at 1-877-SPEC-123, specdesk.na.aaes@assaabloy.com to discuss your project needs and receive your customized energy analysis.



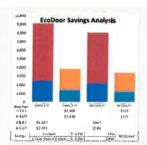
Meeting Your Sustainability Requirements

Proper feature selection can make a tremendous difference in the sustainability performance of your Besam automatic sliding door. The Besam SL500 EcoDoor automatic sliding door can be equipped with a variety of features to radically reduce air infiltration in your facility and reduce energy costs.



U-factor Package

The Besam SL500 EcoDoor U-factor package is equipped with EcoDoor seals and U-factor rated glass; independently tested to ASHRAE 90.1 to provide you with the most energy efficient sliding door available. Your ASSA ABLOY Entrance Systems representative will help you specify a package to comply with local ASHRAE 90.1 requirements. Request a customized energy analysis to see the demonstrable savings you can achieve with EcoDoor Seals and U-factor glass.



Customized Energy Calculations

Consult your local representative for your customized energy savings analysis and see the savings you can achieve with a Besam EcoDoor package. Whether your goal is to lower energy costs, reduce CO2 emissions or improve indoor comfort by reducing drafts and air infiltration, the Besam SL500 EcoDoor can help you achieve your sustainability requirements.



EcoDoor Seals & EcoMode

Significantly reduce air infiltration and energy costs with Besam EcoDoor seals. The unobtrusive seals are mounted on all door leafs and available on your new equipment or to retrofit onto your existing Besam doors. Request your customized energy analysis to see the demonstrable savings you can achieve with Besam EcoDoor Seals.

Utilize the Besam EcoMode EcoMode to reduce the sliding door opening, allowing less infiltration of air to control heating and cooling costs. With Besam's auto-width intelligence, your opening width will adjust automatically when traffic increases and reduce to partial opening when traffic subsides.

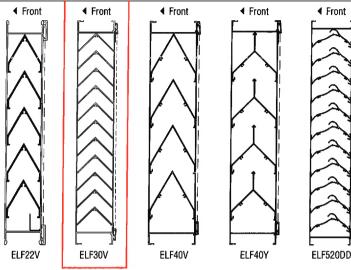
Extruded Alumninum Louvers

Sightproof



ELF22V, ELF40V, ELF40Y, ELF30V, ELF40Y, ELF520DD

These models give visual screening and light duty security while concealing mechanical equipment. Blades can be positioned vertically or horizontally.



Specification

Furnish and install, where shown on plans, Ruskin Louver Model (specify), which shall be sightproof type contained within a single frame. Frame and blade material to be 6063-T5 aluminum alloy. Frame shall contain integral caulking slots. Blades shall be supported with hidden mullions for continuous appearing stationary blades (ELF40V only). Intermediate support mullions shall not interrupt blade exterior appearance. Screen shall be contained within a removable frame.

Design shall incorporate structural supports required to withstand a wind load of 20 lbs. per sq. ft. (.96 kPa); specifier may substitute any loading required.

Louvers shall receive (specify from finish pages) finish.

SPECIFICATIONS								PERFORMANCE 48" x 48" UNIT				
Louver Model	Blade Material (Nom.)	Blade Style	Blade Angle	Blade Centers (Nom.)	Frame Material (Nom.)	Frame Depth	Bird Screen	Free Area (Nom.)	Sg. Ft. Free Area	Max. Rec. Air Flow Thru Free Area FPM	Air Flow CFM	Maximem Pressure Drop, Inches w.g.
ELF22V	6063-T5 .060" (1.5) ext. alum.	Chevron	60°	2' (51)	6063-T5 .060" (1.5) ext. alum.	2* (51)	5/8" x .040" (16 x 1) alum.	28%	4.51 (.42m²)	500 (152 m/min)	2255 (64 m³/min)	Not Avail.
ELF30V	6063-T5 .080* (2.0) ext. alum.	Chevron	45°	1-7/16* (37)	6063-T5 .080" (2.0) ext. alum.	3° (76)	5/8" x .040" (16 x 1) alum.	56%	8.92 (.83m²)	660 (201 m/min)	5887 (167 m³/min)	.10 (.03 kPa)
ELF40V	6063-T5 .080" (2.0) ext. alum.	Chevron	60°	4" (102)	6063-T5 .080* (2.0) ext. alum.	4* (102)	5/8" x .040" (16 x 1) alum.	35%	5.50 (.51m²)	500 (152 m/min)	2410 (68 m³/min)	.10 (.03 kPa)
ELF40Y	6063-T5 .080" (2.0) ext. alum.	Inverted "Y"	45°	4* (102)	6063-T5 .080" (2.0) ext. alum.	4" (102)	5/8" x .040" (16 x 1) alum.	33%	5.22 (.48m²)	500 (152 m/min)	2610 (74 m³/min)	Not Avail.
ELF520DD	6063-T5 .063" (1.6) ext. alum.	Drainable	20°	2"	6063-T5 .080" (2.0) ext. alum.	5* (127)	5/8" x .040" (16 x 1) alum.	49%	7.76 (.72m²)	1024 (312 m/min)	7946 (225 m³/min)	.25 (.06 kPa)

Dimensions in parentheses () indicate millimeters.

For up-to-date information visit www.ruskin.com





RUSKIN®

RUSKIN finishes enhance product appearance to blend with other colors selected. These same finishes provide extended weathering resistance similar to adjacent building surfaces. RUSKIN provides most finishes available to architects and engineers. The standard finishes described herein represent those finishes usually selected, specified, or required for most applications.

FINISHES AND COLOR GUIDE

FLUROPON® AND BAKED ENAMEL - STANDARD COLORS

Louver Color to Match
Window/Storefront Frame

The 15 colors below are available in Fluropon (70% PVDF) or Baked Enamel (50% PVDF) finishes only.



PEARLEDIZE 70 AND PEARLEDIZE 50 STANDARD COLORS

The 9 colors below are available in Pearledize 70, Pearledize 50, Clear or Color Anodize finishes only, and may be more expensive than the Fluropon and Baked Enamel colors shown above. Italicized color names and codes are available in Anodized Finish.



The colors shown herein are only a sample of thousands of colors available.

Please contact RUSKIN for information regarding custom color matching.

Disclaimer: This color card is for reference only and is not meant to be used for color matching or final color approval. Shades may vary due to the color and resolution of the computer screen or print-out. Ruskin is not responsible for color matches made with this online color chart.

3900 Dr. Greaves Rd. Kansas City, Missouri 64030



Phone (816) 761-7476 FAX (816) 765-8955 e-mail: ruskin@ruskin.com

McNICHOLS® DESIGNER METALS







Inspired to Serve!

866.754.5144 | mcnichols.com

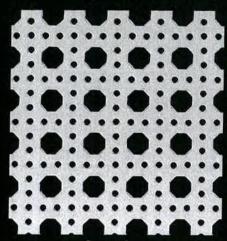
McNICHOLS® Designer Perforated Metal: Sustainable



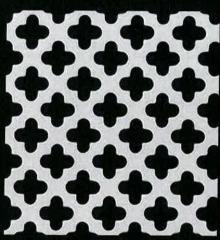
McNICHOLS® Designer Perforated Metal infill panels in an Octagon Cane pattern give this kitchen a vintage touch.



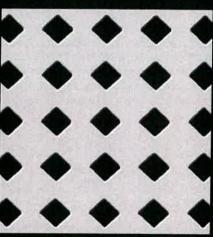
Grecian Designer Perforated Metal infill panel adds elegance to this linen closet.



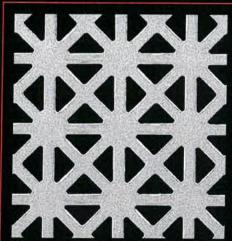
Octagon Cane 36% Open Area



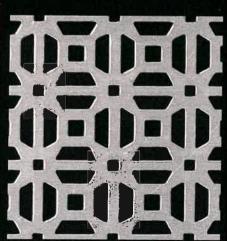
Full Cloverleaf - 1/2" Staggered Clovers 51% Open Area



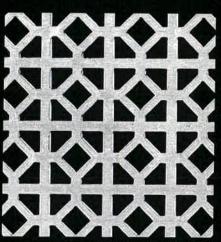
Linco 19% Open Area



Grecian 35% Open Area



Mosaic 3310 40% Open Area



Windsor 45% Open Area





Fabric Awnings

Standing Seam/ Metal Clad

Tension Structures

Custom Lettering and Graphics

Commercial and Industrial Coverings

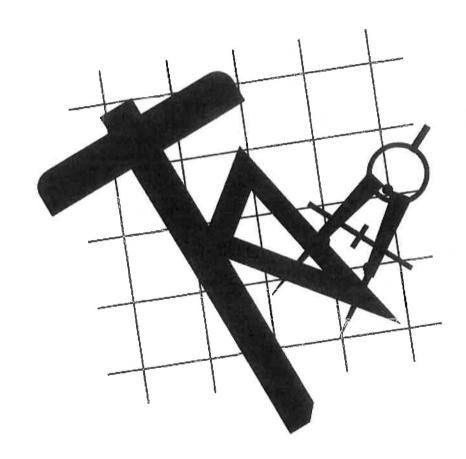
Exhibit Components

Tension Structures

Banners

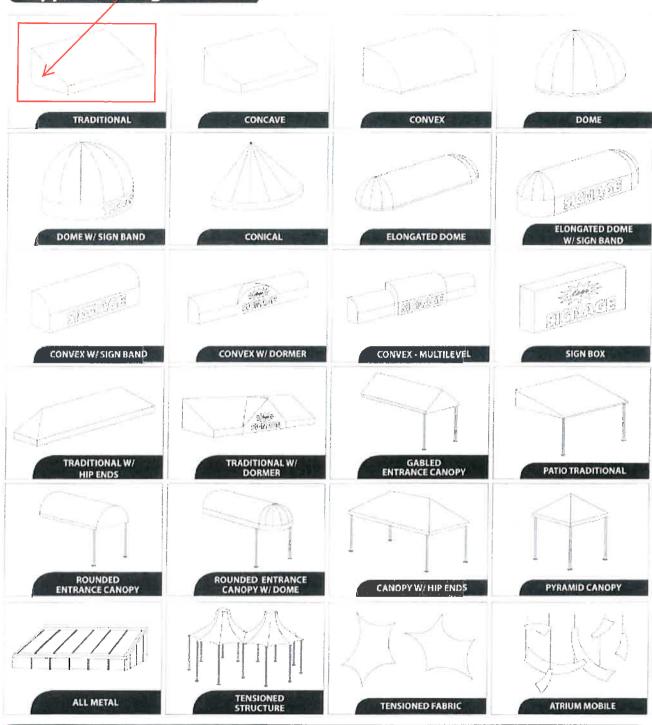
Automated Cutting & Patterning

Typical Fabric Structure Specifications Guide



Lawrence Fabric Structures 3509 Tree Court Industrial Blvd. St. Louis, MO 63122 (636) 861-0100 (636) 861-0150 Fax (800) 527-3840 sales@lawrencefabric.com

Typical Designs



Graphics

We use a variety of graphic techniques to achieve the desired look. Today's fabric structures can be enhanced with anything from simple lettering to custom printed patterns or digital printed photographs. Following is a list of common techniques available today:

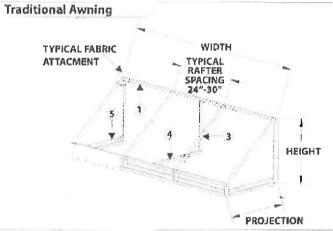
- Stencil Painted
- Applied Vinyl Decals
- •Sunbrella Graphic
- •R/F Welded
- Eradicated
- Dye Sublimation

- System[®]
- •Ink Jet Printed
- Screen Printed
- Digital Printing



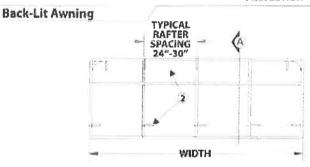
Frames

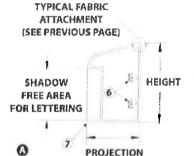
TYPICAL SPECIFICATIONS



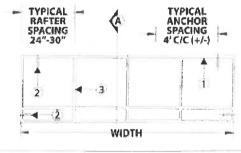
Legend

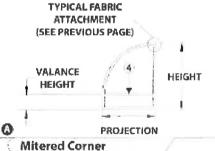
- 1. TOP BAR
- 2. "Z" BRACKET
- 3. RAFTER
- 4. RETURNS, WHERE NEEDED
- 5. TIEBAR (LACEBAR)
- 6. HIGH OUTPUT, ZERO DEGREE, DAMP-LOCATION LIGHT FIXTURES
- 7. OPTIONAL EGG CRATE LIGHT DIFFUSERS



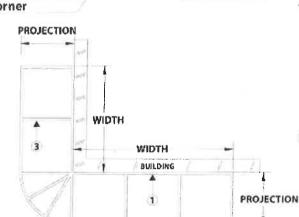


Convex Awning





Radiused Corner



TYPICAL RAFTER SPACING 24"-30"



Angled Corner



Stock Metal Goods

Most frames are made with 1" & 2" aluminum tubing. Other tubing types are available as size and load limits require.

A. 1"x 1"x .075 wall

B. 1"x 2"x .100 wall

C. Tim" x 3" x .125wall

D. 1 1/2"x 1 1/2"x .125 wail

E 1 % "x 1 % "x .125 wall

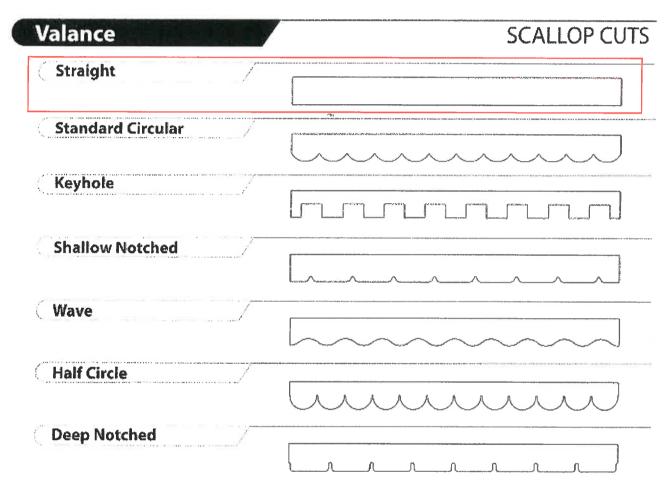
f. 2"x 2"x .093 wall

G. 21/2"x 21/2"x .188 wall

G. 1/2"round x .088 wall

H. 2 1/2" round SCH, 40 STEEL

I. 2" x 3" x .125 wall STEEL.



Variations of the above scallop cuts can be produced. Painted trim can also be added to customize the design.

Quality Assurance

GUARANTEES - are for normal sun and wind conditions.

FRAME - Five years for workmanship and rust and corrosion resistance.

FABRIC - Manufacturer's mill warranties vary from three to eight years.

SEWING - Three year warranty on seams and thread.

More important than these stated warranties is the over SIXTY FIVE YEARS of customer service and satisfaction that Lawrence Fabric Structures has provided. We are very proud of our reputation as a leader in our industry, both in product quality and customer satisfaction.







46" Sapphire Vintage Bar Stripe 4948-0000

WIDTH: 46" / 116.84 cm

REPEAT: 7.63"

CONTENT: 100% Sunbrella® Acrylic

SELVEDGE POSITION: Left / Right

RECOMMENDED USES:

Fixed Awnings / Retractable Awnings / Shade

Sails / Umbrellas

SWATCH SIZE SHOWN ~ 46" x 46"

CARE AND CLEANING:

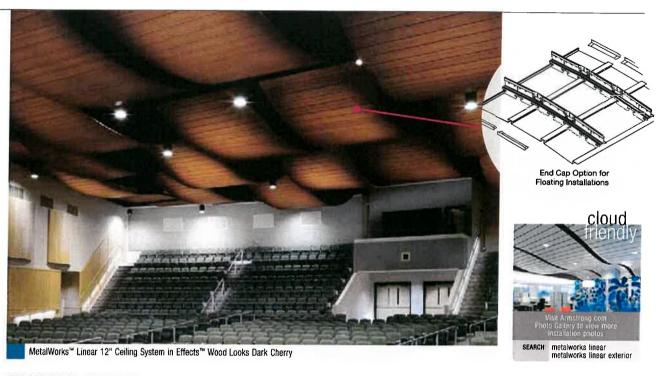
Brush off loose dirt. Wash with a mild soap and lukewarm water solution. Rinse thoroughly. Allow to air dry. For more information visit

www.sunbrella.com/cleaning

WARRANTY: For warranty information visit www.sunbrella.com/warranty

METALWORKS™ Linear **METALWORKS** Linear Exterior

smooth texture



KEY SELECTION ATTRIBUTES

- · Nominal 4", 6", 8", and 12" wide panels, including nominal 1" reveal
- · Acoustical options with microperforated panels
- Available in three colors and six Effects™ Wood Looks finishes
- . Install in the ceiling, on the wall, or create 90° angled or curved ceiling-to-wall transitions
- · Fast and easy installation

- · Durable Washable, Scrubbable, Impact-resistant, Soil-resistant
- Available for exterior applications, tested to meet wind uplift Classes 30, 60, and 90
- For custom color options, call TechLine at 1 877 ARMSTRONG
- · For ceiling and wall applications that require unique solutions, contact the You Inspire™ Solutions Center at solutionscenter@armstrong.com

COLOR SELECTION

Due to printing limitations, shade may vary from actual product.



(WH2)

Effects Maple

Exterior (FXMP2)*

Silver Grey





Gun Metal Grey

(MY)

Grev Exterior

(MY2)*

(SG) White Exterior Silver Grey Gun Metal Exterior

(SG2)







Effects Cherry

Exterior (FXCH2)*







(FXDC)

Effects Dark

Cherry Exterior (FXDC2)*



(FXOK2)*





Effects Walnut

Exterior

(FXWN2)*



Walnut Espresso

Exterior (FXWE2)*

Minimum order quantity and extended lead times may apply

PERFORATION OPTIONS (Actual 1:1 scale shown)







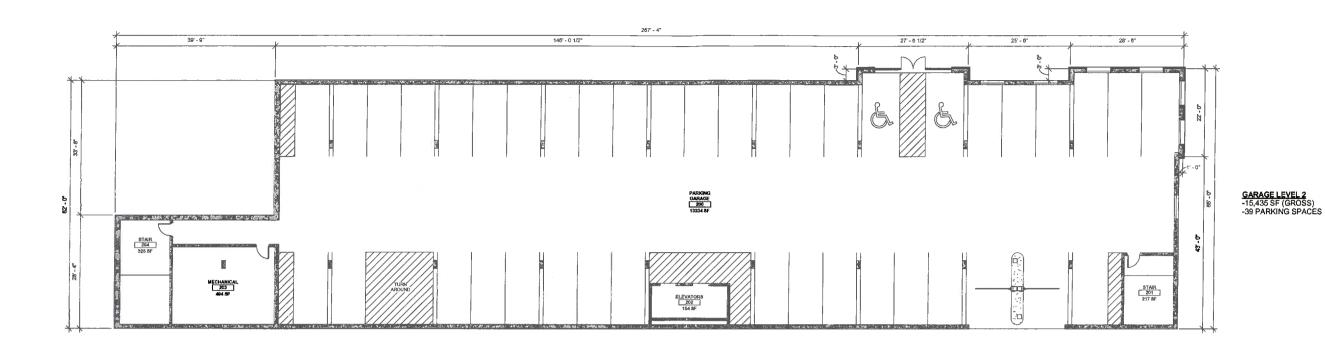


Custom perforations available

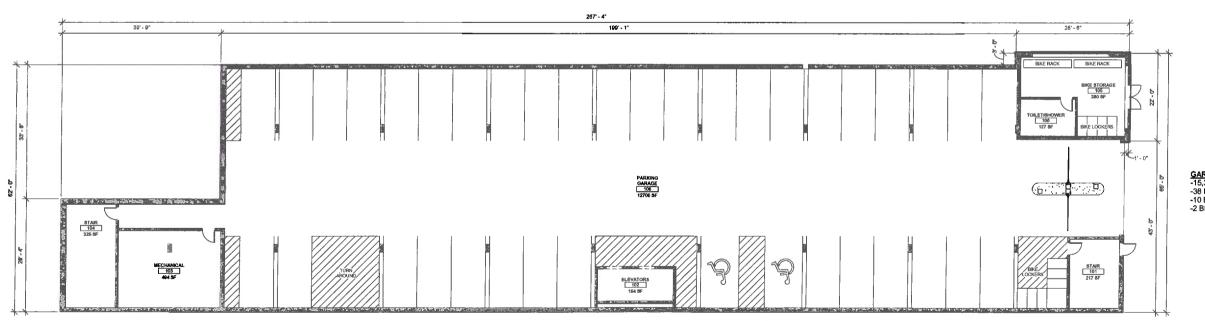


Custom colors available





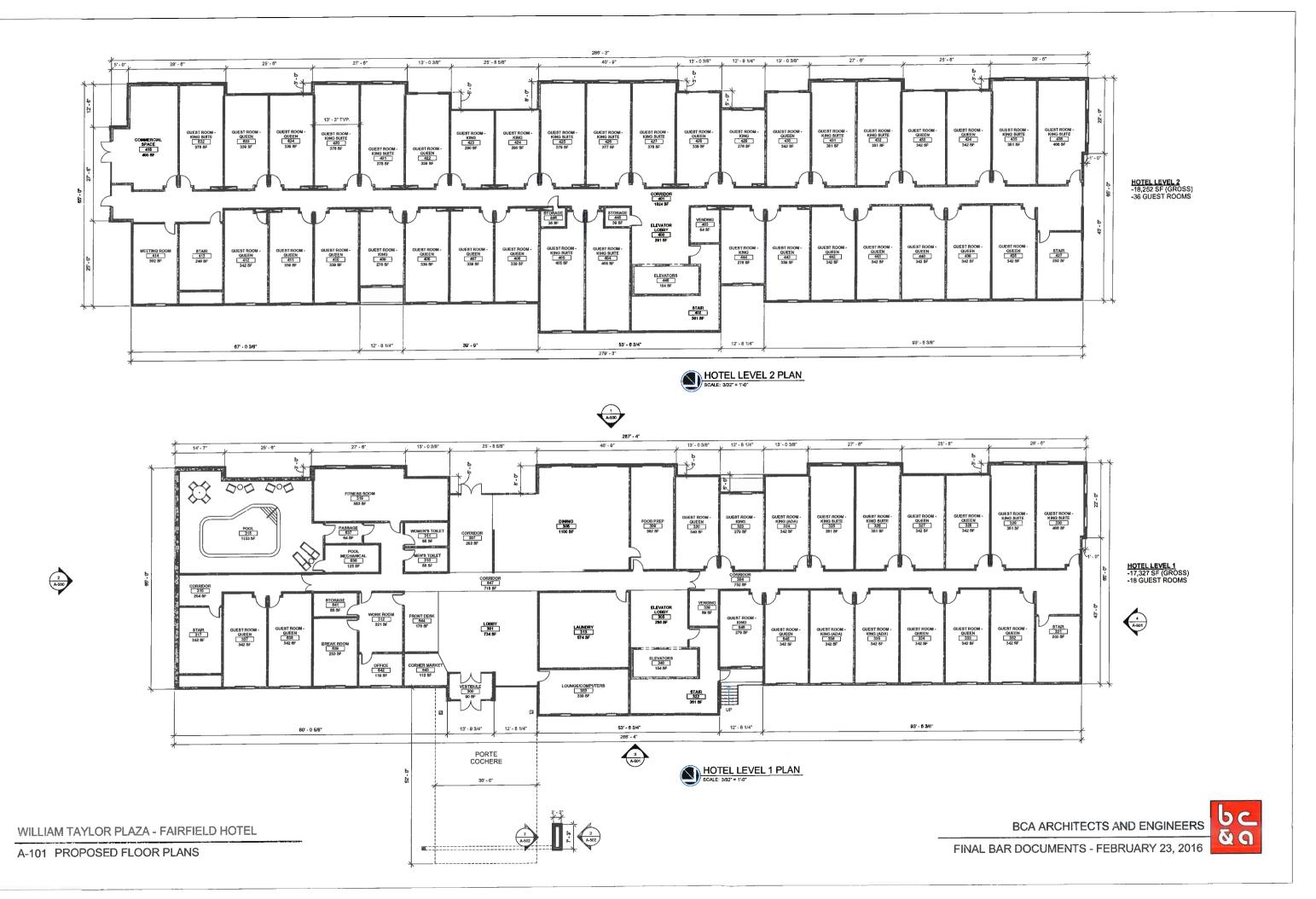
GARAGE LEVEL 2 PLAN
SCALE: 3/32" = 1'-0"

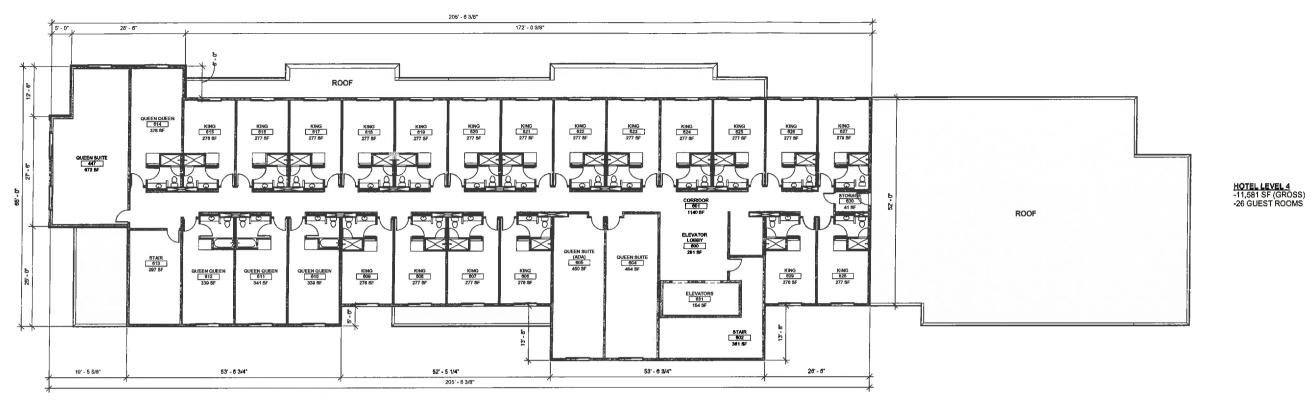


GARAGE LEVEL 1 -15,342 SF (GROSS) -38 PARKING SPACES -10 BIKE LOCKERS -2 BIKE RACKS

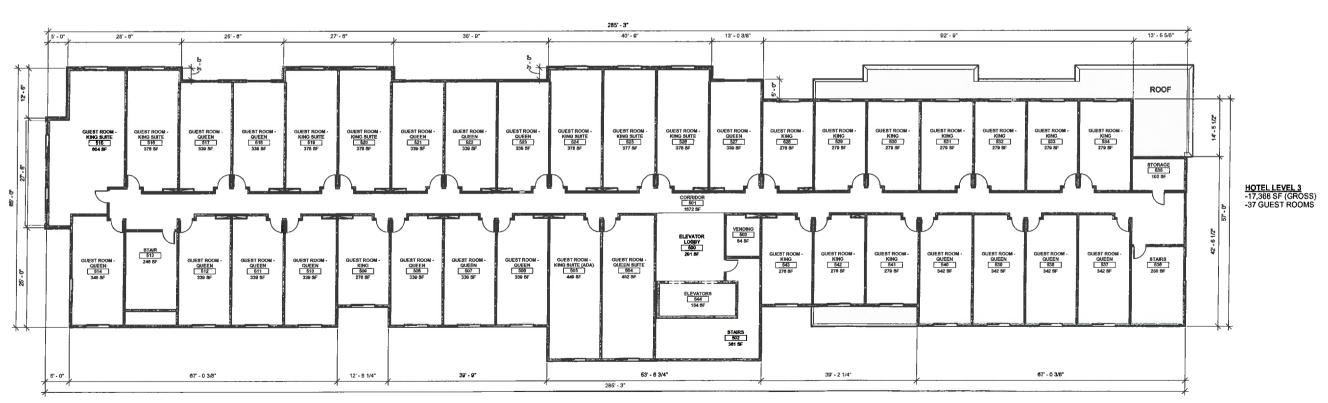






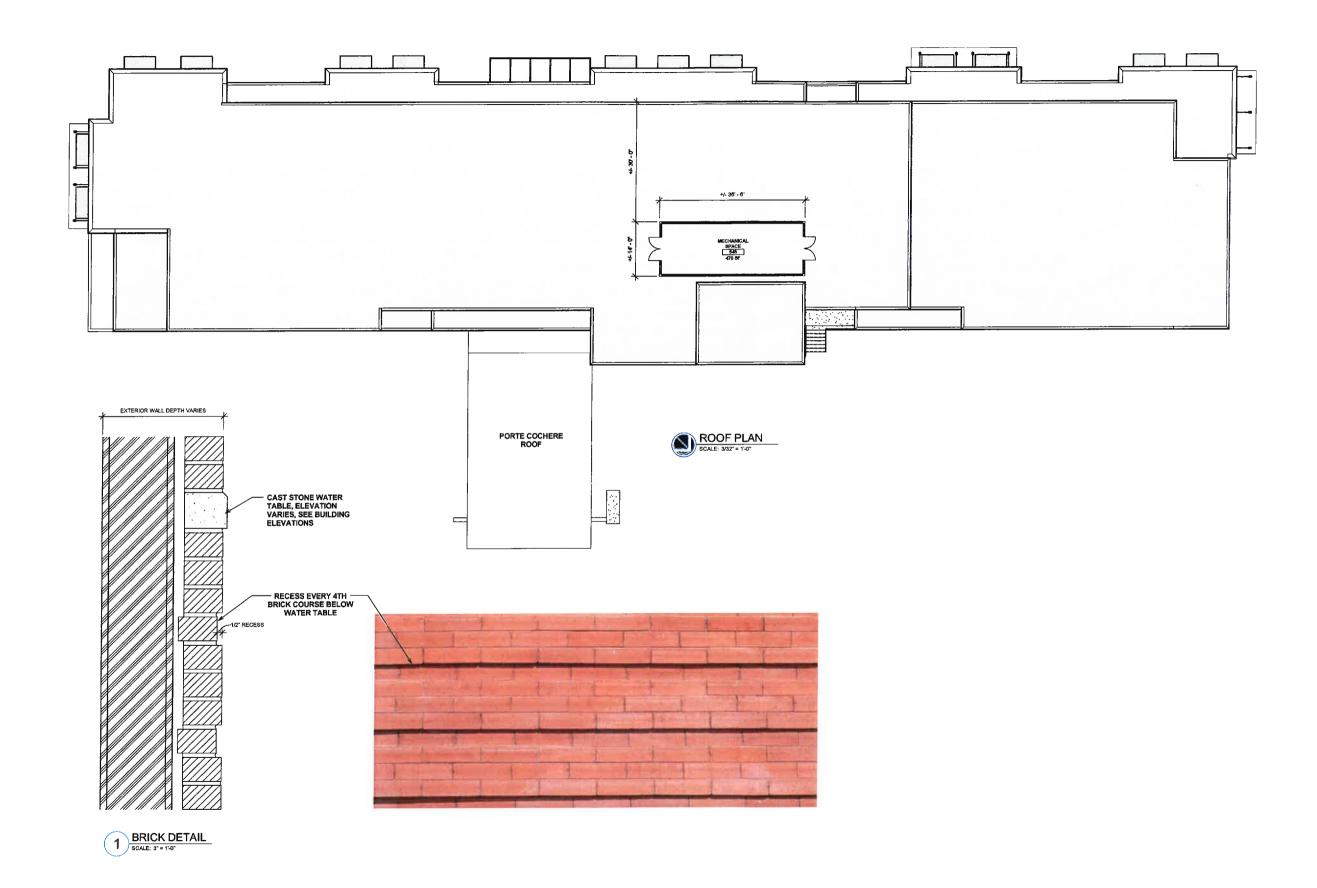






HOTEL LEVEL 3 PLAN
SCALE: 3/32" = 1'-0"





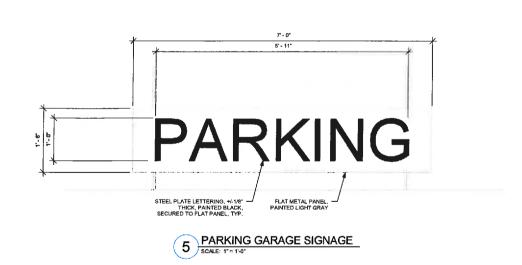


1 SOUTHWEST ELEVATION SCALE: 3/32"= 1/40"





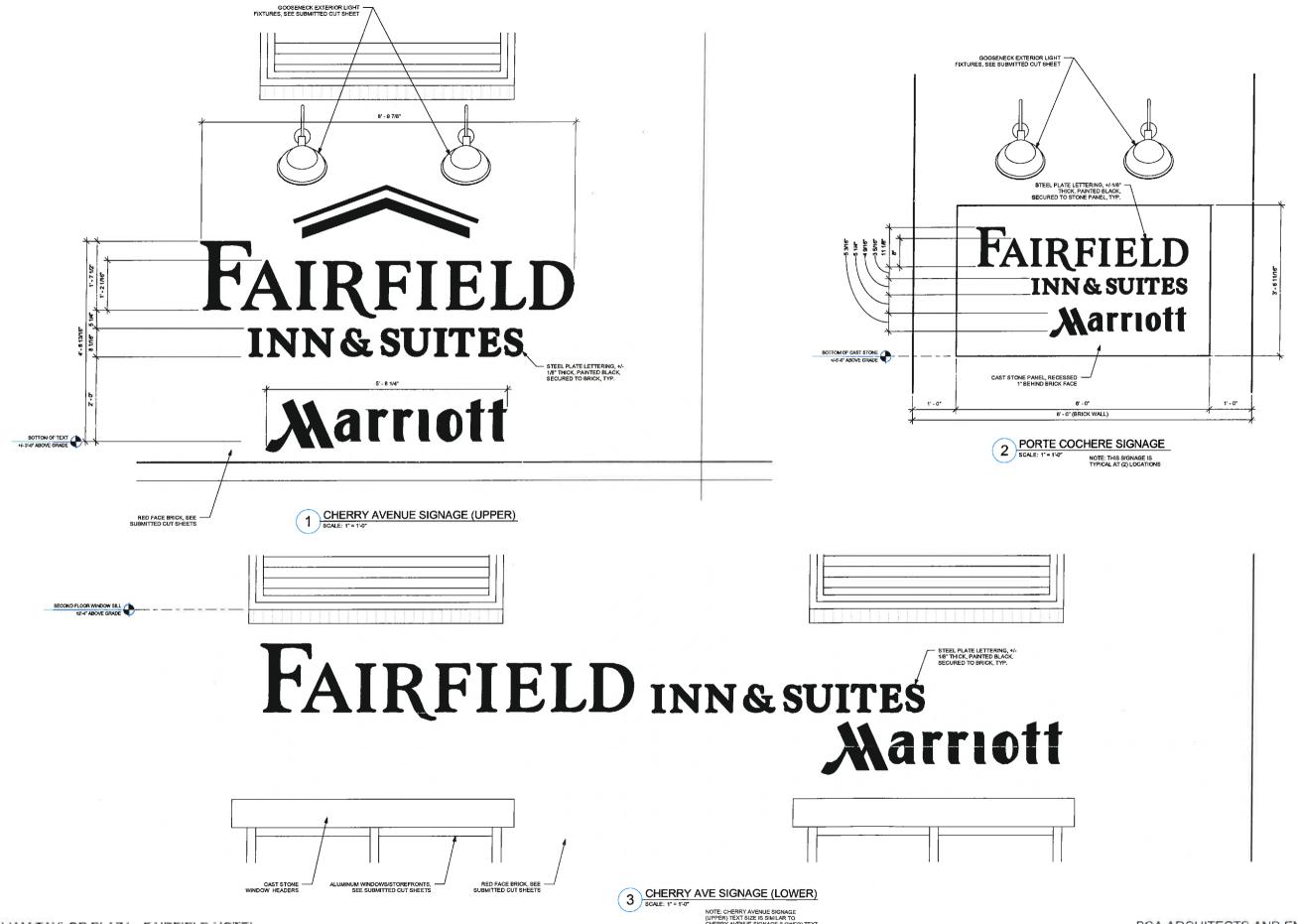




WILLIAM TAYLOR PLAZA - FAIRFIELD HOTEL

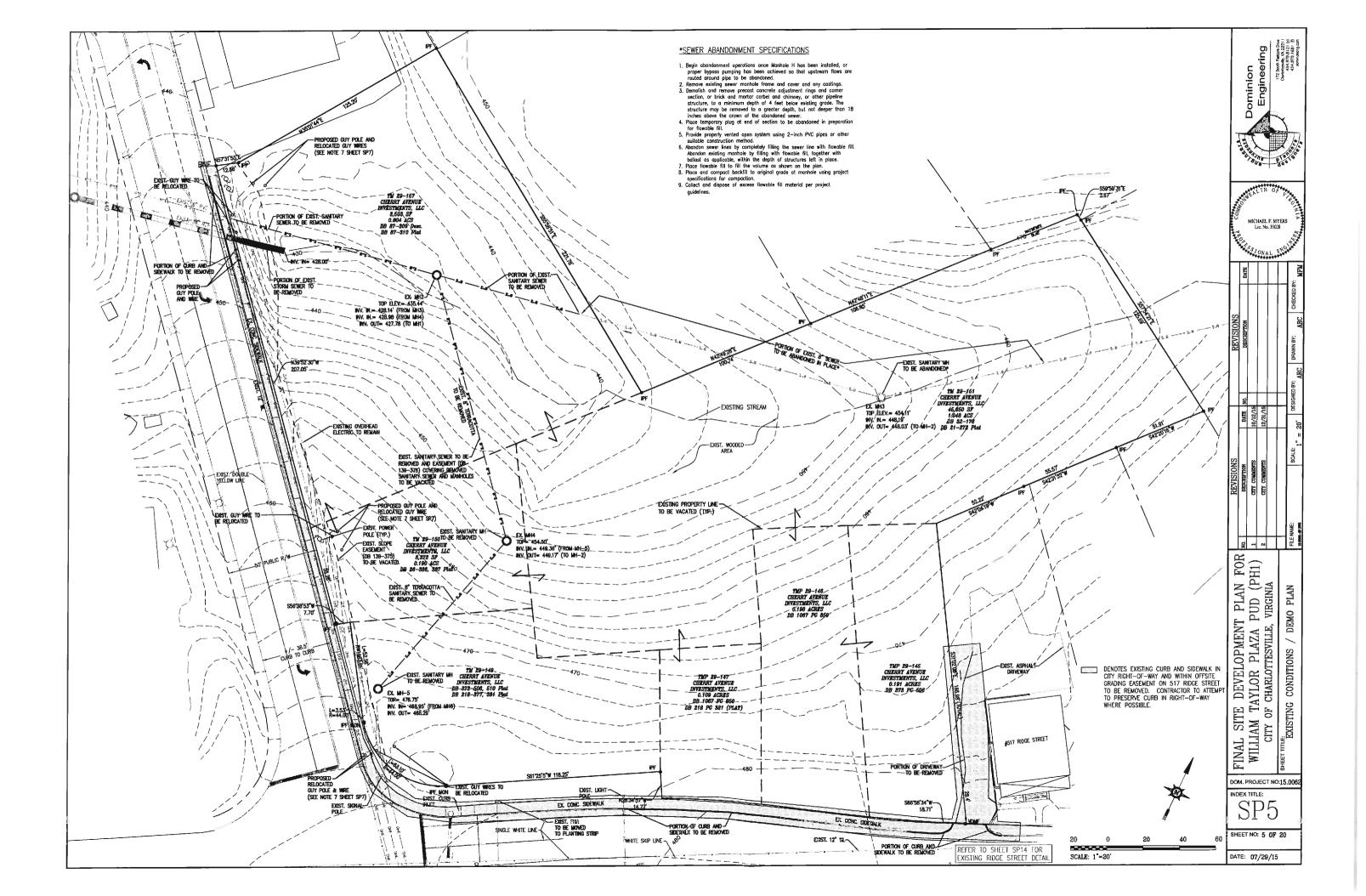
A-501 PROPOSED BUILDING ELEVATIONS

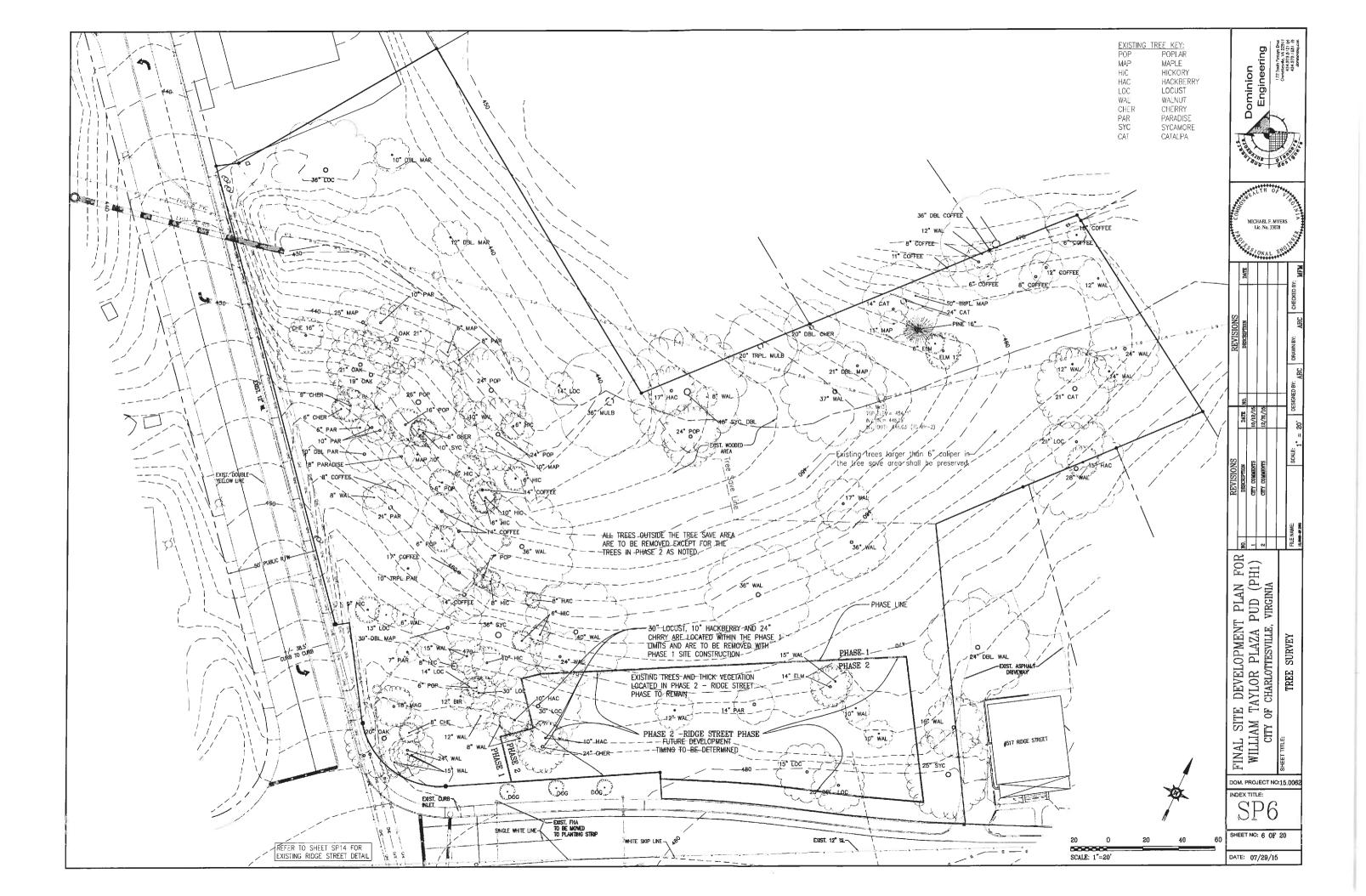


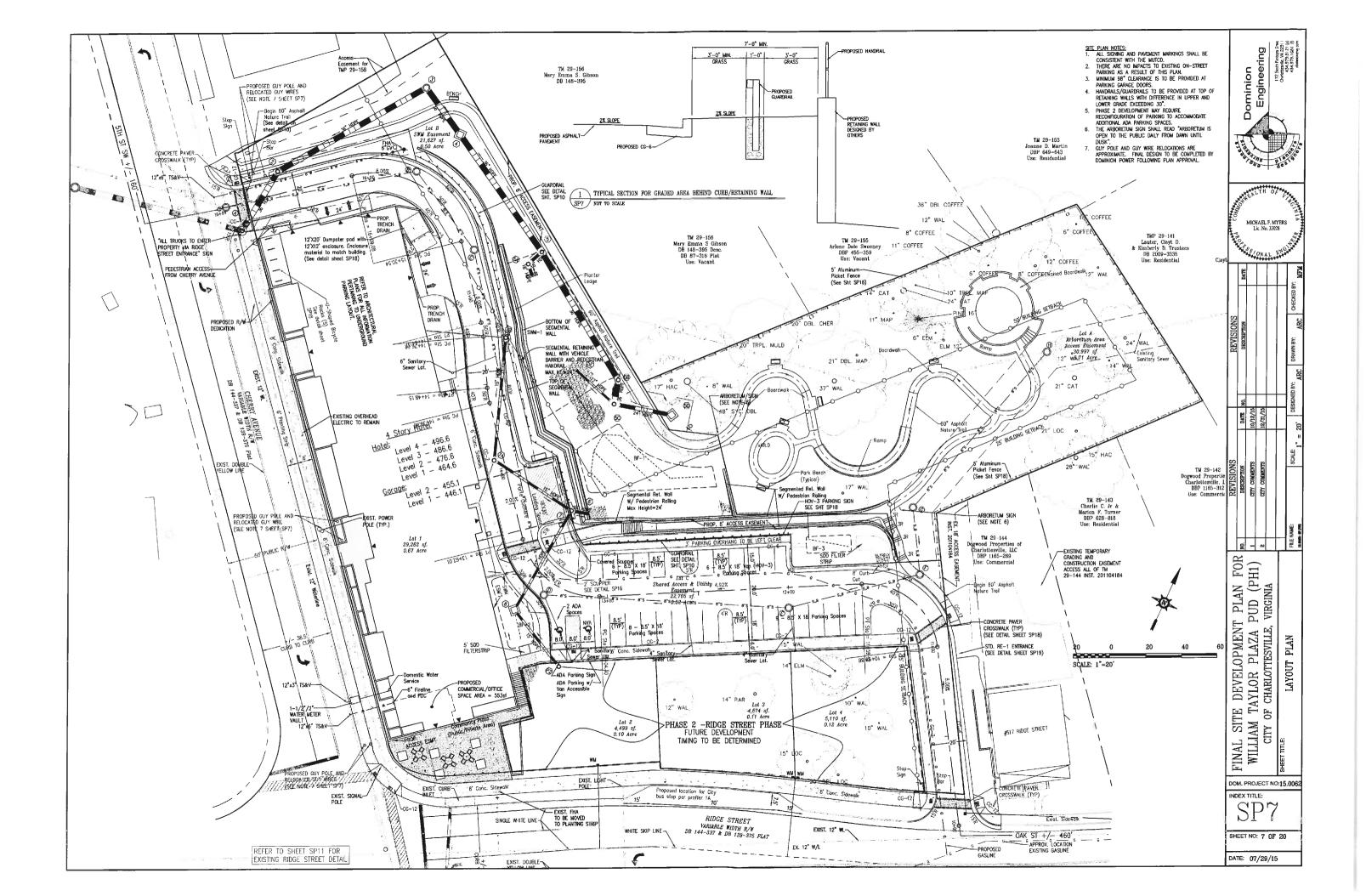


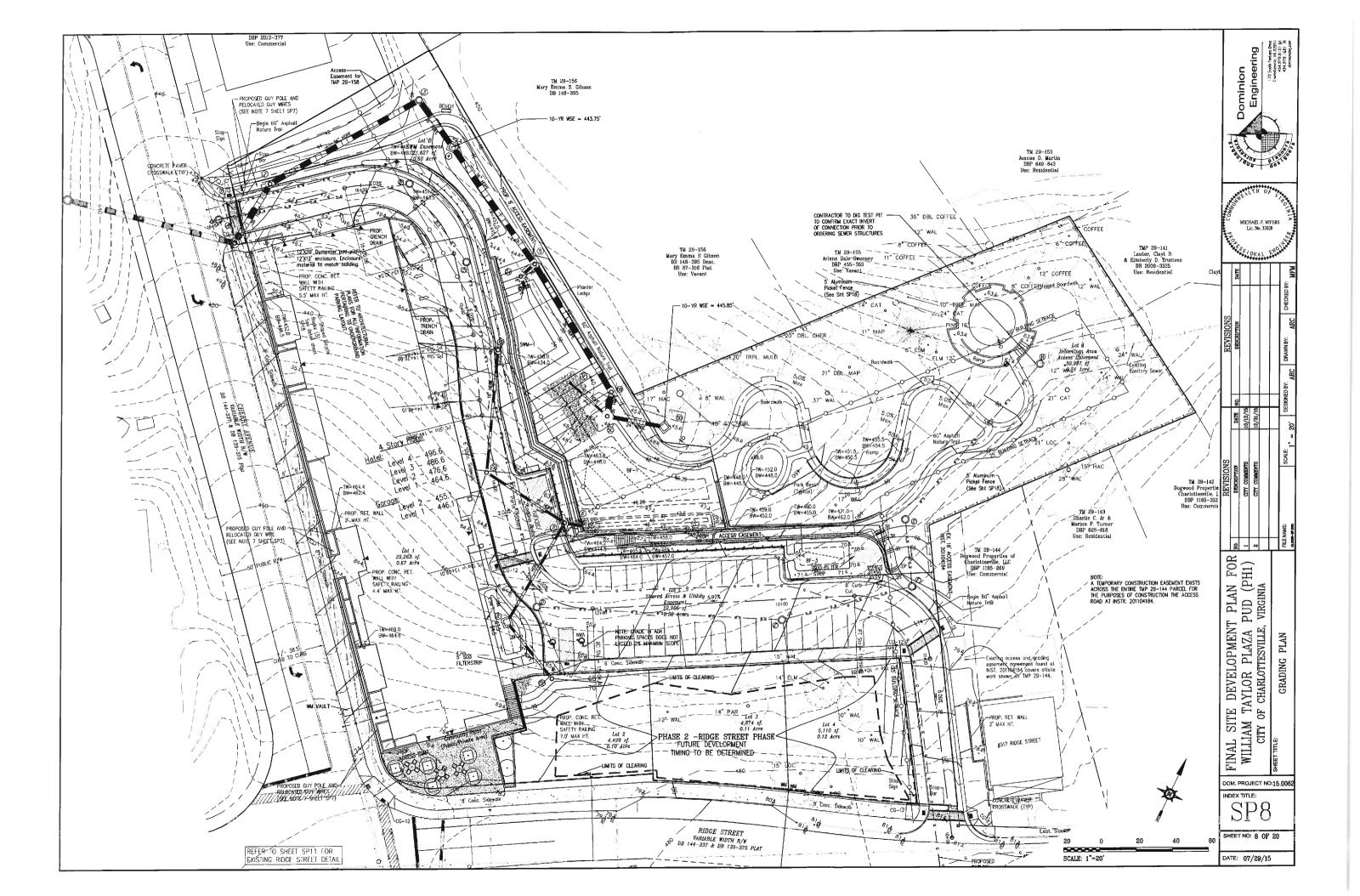
WILLIAM TAYLOR PLAZA - FAIRFIELD HOTEL

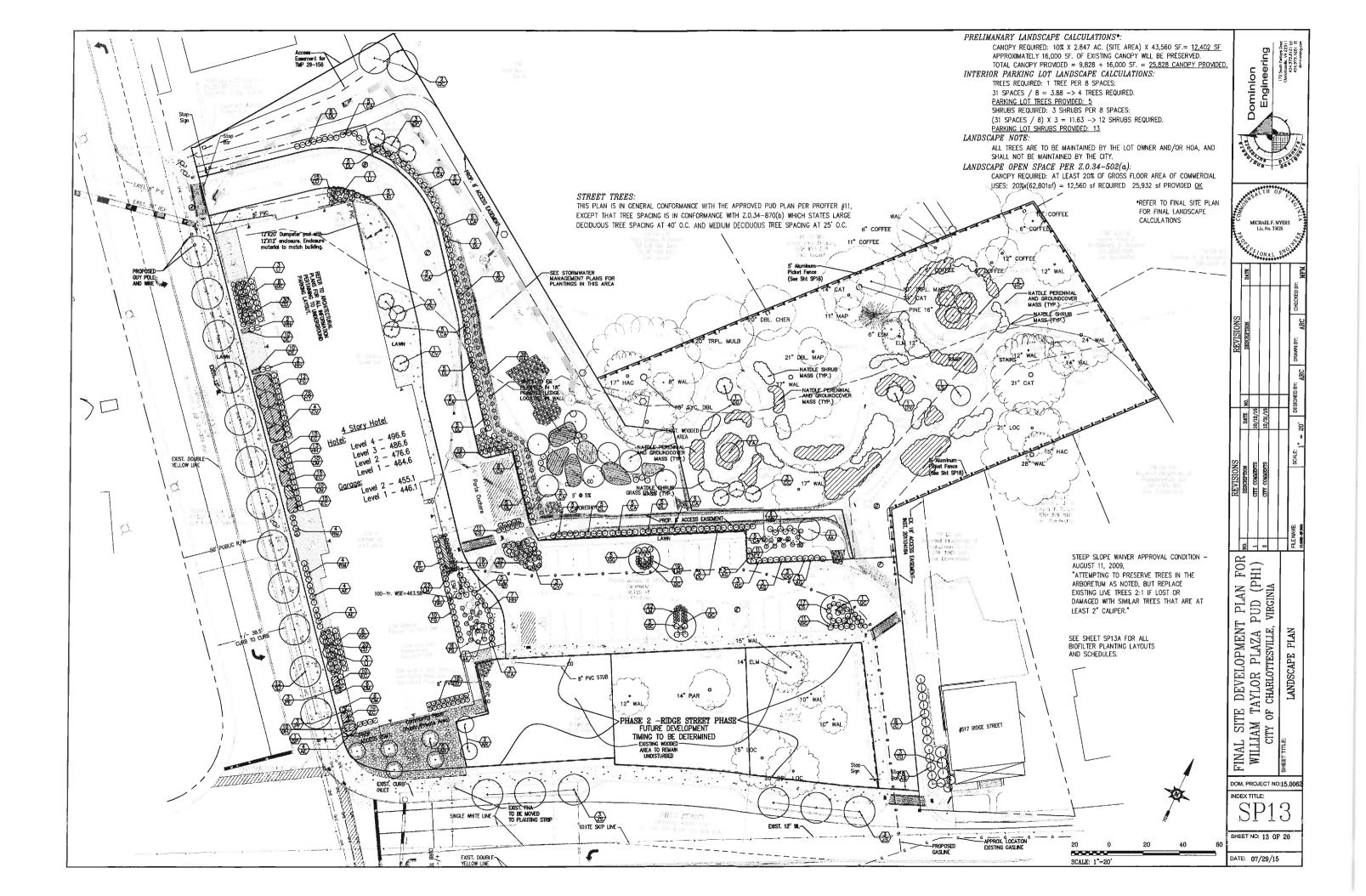
A-502 PROPOSED BUILDING SIGNAGE DETAILS

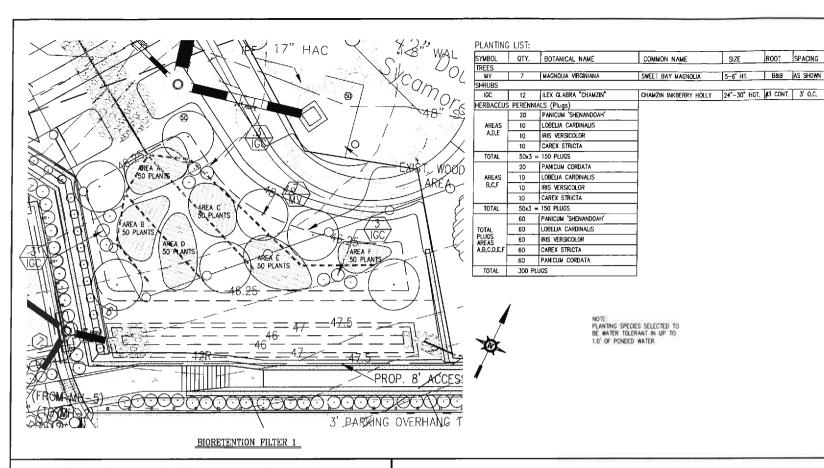


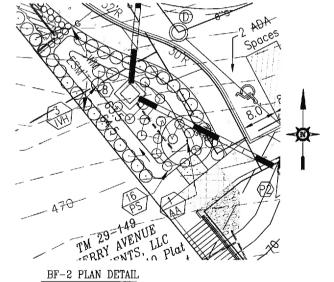








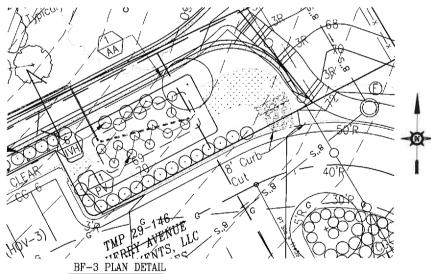




PLANTIN	G LIST:					
SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING
TREES						
AA	1	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA	5-6' HT.	B&B	AS SHOWN
SHRUBS		<u> </u>			-	
IVH	3	ITEA VIRGINICA "HENRY'S GARNET"	"HENRY'S CARNET" SWEETS	8-10' HT.	#3 CONT.	AS SHOWN
GRASSES		•	•			
29	16	PANICUM SHENANDOAH			#1 CONT	36" O.C.

NOTE:
PLANTING SPECIES SELECTED TO
BE WATER TOLERANT IN UP TO
0.5' OF PONDED WATER.

10 20 SCALE: 1"=10"



PLANTING	G LIST:					
SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING
TREES						
AA	1	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA	5-6' HT.	B&B	AS SHOWN
SHRUBS						
IVH	6	ITEA VIRGINICA "HENRY'S GARNET"	"HENRY'S GARNET" SWEETS	8-10' HT.	#3 CONT.	as shown
GRASSES						
PV	11	PANICUM VIRGATUM			#1 CONT.	36" O.C.

NOTE: PLANTING SPECIES SELECTED TO BE WATER TOLERANT IN UP TO 0.5' OF PONDED WATER.

PLANTING LIST:

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING
DECIDUOU:	S TREES	· ·		•	•	
AR	7	ACER RUBRUM "RED SUNSET"	RED SUNSET MAPLE	3-3 1/2" CAL		AS SHOWN
FA	1	FAGUS GRANDIFOLIA	AMERICAN BEECH	3-3 1/2" CAL		as shown
LS	1	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	3-3 1/2" CAL		AS SHOWN
QC	5	QUERCUS COCCINEA	SCARLET OAK	3-3 1/2" CAL		as shown
SJ	12	SOPHORA JAPONICA	REGENT JAPANESE PAGODA	3-3 1/2" CAL		AS SHOWN
ZS	6	ZELKOVA SERRATA "GREEN VASE"	GREEN VASE ZELKOVA	3-3 1/2" CAL	B&B	as shown
FLOWERING	TREES					
CC	3	CERCIS CANADENSIS	EASTERN REDBUD	2-2 1/2" CAL		as shown
CV	11	CHIONANTHUS VIRGINICUS	FRINGE TREE	8'-10' HGT.	B&B	AS SHOWN
CP	3	CRATAEGUS PHAENOPYRUM FASTIGIATA	FASTIGIATE WASHINGTON HAWTHORN	2-2 1/2 CAL		AS SHOWN
DV	1	DIOSPYRUS VIRGINIANA	COMMON PERSIMMONS GOLDEN GLORY CORNELIAN CHERRY	2-2 1/2" CAL 2-2 1/2" CAL		AS SHOWN AS SHOWN
GG HC	3	CORNUS MAS "GOLDEN GLORY" HALESIA CAROLINA "TETRAPTERA"	SILVERBELL	2-2 1/2 CAL		AS SHOWN
LI	7	LAGERSTROEMIA INDICA "CATAWBA"	CRAPE MYRTLE	8'-10' HGT.	B&B	AS SHOWN
SP	1 1	STEWARTIA PSEUDOCAMELLIA	JAPANESE STEWARTIA	8'-10' HGT.	B&B	AS SHOWN
EVERGREEI		STEMARTIA PSEUDOCAMELLIA	DAFANESE SIERAKTIA	B = 10 HG1.	DIED	MS SHUMM
TO	3	THUJA OCCIDENTALIS "TECHNY"	TECHNY ARBORVITAE	6'-7' HGT.	B&B	6' O.C.
SHRUBS						
AE	12	ABELIA "EDWARD GOUCHER"	EDWARD GOUCHER ABELIA	30"~36" HGT.	#3 CONT.	3' O.C.
AG	17	ABELIA GRANDIFLORA	GLOSSY ABELIA	36"-42" HGT.	#5 CONT.	5' O.C.
CA	76	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY	24"-30" HGT.	#3 CONT.	3' O.C.
CD	83	COTONEASTER DAMMERI "STREIBS FOUNDLING"	STREIBS FOUNDLING COTONEASTER	24"-30" HGT.	#3 CONT.	30" O.C.
CS	73	COTONEASTER SALICIFOLIA REPENS	WILLOWLEAF COTONEASTER	24"-30" HGT.	#3 CONT.	30° 0.C.
DG	6	DEUTZÍA X "MONZIA"	PINK-A-BOO DEUTZIA	36"~42" HGT.	#3 CONT.	3' O.C.
FG	31	FOTHERGILLA GARDENII	FOTHERGILLA	24"-30" HGT.	#3 CONT.	3' O.C.
нн	24	HYPERICUM "HIDCOTE"	ST. JOHN'S WORT	24"-30" HGT.	#3 CONT.	3' O.C.
IC	8	ILEX CRENATA "STEEDS"	STEEDS JAPANESE HOLLY	36"-42" HGT.	#5 CONT.	5' O.C.
IGC	37	ILEX GLABRA "CHAMZIN"	CHAMZIN INKBERRY HOLLY	24"-30" HGT.	#3 CONT.	3' O.C.
DL	58	LEUCOTHOE FONTANESIANA	DROOPING LEUCOTHOE	4'-4.5' HGT.	#5 CONT.	42° 0.C.
PF	6	POTENTILLA FRUTICOSA	RED ACE POTENTILLA	24"-30" HGT.	#3 CONT.	3' O.C.
RM	8	ROSA X "MEIRUTRAL	RED SUNBLAZE	24*-30HGT.	#3 CONT.	3' O.C.
GROUNDCO	VERS AND	PERENNIALS				
AV	19	ASTILBE "VARIETY"	ASTILBE	12"-15" HGT.	#1 CONT.	12" O.C.
CM	32	COREOPSIS "MOONBEAM"	MOONBEAM COREOPSIS	12"-15" HGT.	#1 CONT.	12" O.C.
DE	20	DICENTRA "EXIMA"	FRINGED BLEEDING HEART	12"-15" HGT.	#1 CONT.	12" O.C.
EC	65	ERICA CINERA "MAHOGENY"	MAHOGENY HEATH	12"-15" HGT.	#1 CONT.	12" O.C.
GH	10	GERANIUM HIMALAYENSE	HIMALAYAN CRANSEILL	12"-18" HGT.	2QT. POT	18" O.C.
HY	75	HYPERICUM CALYCINUM	ROSE OF SHARON HYPERICUM	8"-12" HGT.	IQT. POT	12" O.C.
LM	64	LIRIOPE MUSCARI "VARIEGATA"	VARIEGATED LIRIOPE	12"-18" HGT.	#1CONT.	18" O.C.
ANES AND	CLIMBING	PLANTS				
HA	38	HYDRANGIA ANOMALA PETIOLARIS	CLIMBING HYDRANGEA	18"-24" HGT.	#2 CONT.	4' O.C.
		I				

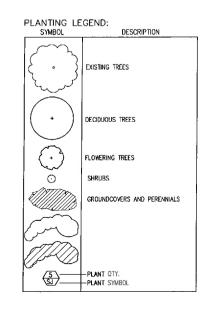
- PLANTING NOTES:

 1. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO COMMENCING
- 1. THE CONTRACTOR SHALL WERE THELD CONTROL THOS SHADO TO COMMENSION PLANTING WORK AND NOTIFY THE OWNER'S REPRESENTATIVE MIMEDIATELY IF CONDITIONS DETRIMENTAL TO NEW AND EXISTING PLANT MATERIAL ARE ENCOUNTERED.

 2. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VERFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UTILIZE A LOCATION SERVICE TO VERFY UNDERGROUND UTILIZED.
- THE CONTRACTOR TO UTILIZE A LOCATING SERVICE TO VERBY UNDERGROUND UTILITY LOCATIONS.

 3. THE CONTRACTOR SHALL STAKE LOCATIONS OF ALL PLANT MATERIALS PRIOR TO INSTALLATION. NOTIFY THE OWNER'S REPRESENTATIVE WHEN STAKING IS COMPLETE. AT WHICH TIME A MEETING WILL TAKE PLACE TO DETERMINE FINAL LOCATIONS.
- 4. ALL PLANT BEDS AND TREE PITS SHALL RECEIVE 4" OF SHREDDED BARK
- MULCH.

 5. THE CONTRACTOR SHALL TOPSOIL AND SEED LAWN AREAS AND ALL AREAS DISTURBED AS A RESULT OF NEW CONSTRUCTION.



|--|

		 •	٠.	۵۰	
DAY COMPA	OT	IAEL ic. No	. 3302	YERS	ACTOR IN SECTION
	DATE				, FE
					СНЕСКЕВ ВУ:
TONS	NOL				ARC
REVIS	DESCRU				WN BY:

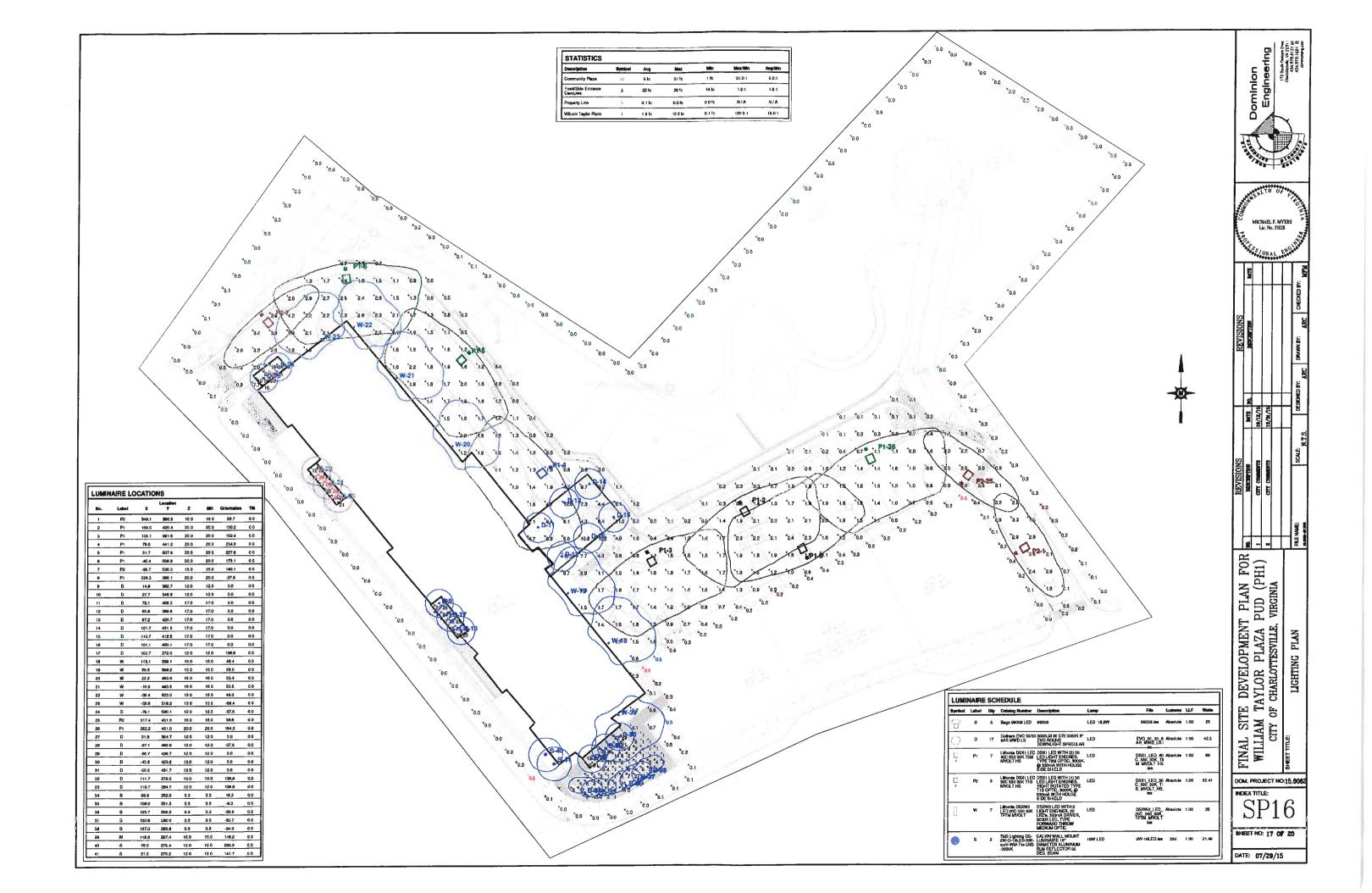
		NO.	1	2	
	FINIAL CITE DEVIET ODMENT DIAN	FINAL SHE DEVELOFMENT	WILLIAM TAYLOR PLAZA PIIN (PH1)	TO I VIDENT INTERIOR TO THE PARTY OF THE PAR	CITY OF CHARLUTTESVILLE, VIRGINIA
		_			TNO
Ì	INC	EX	ודנד ידנד	LE:	
		-	`	٠	

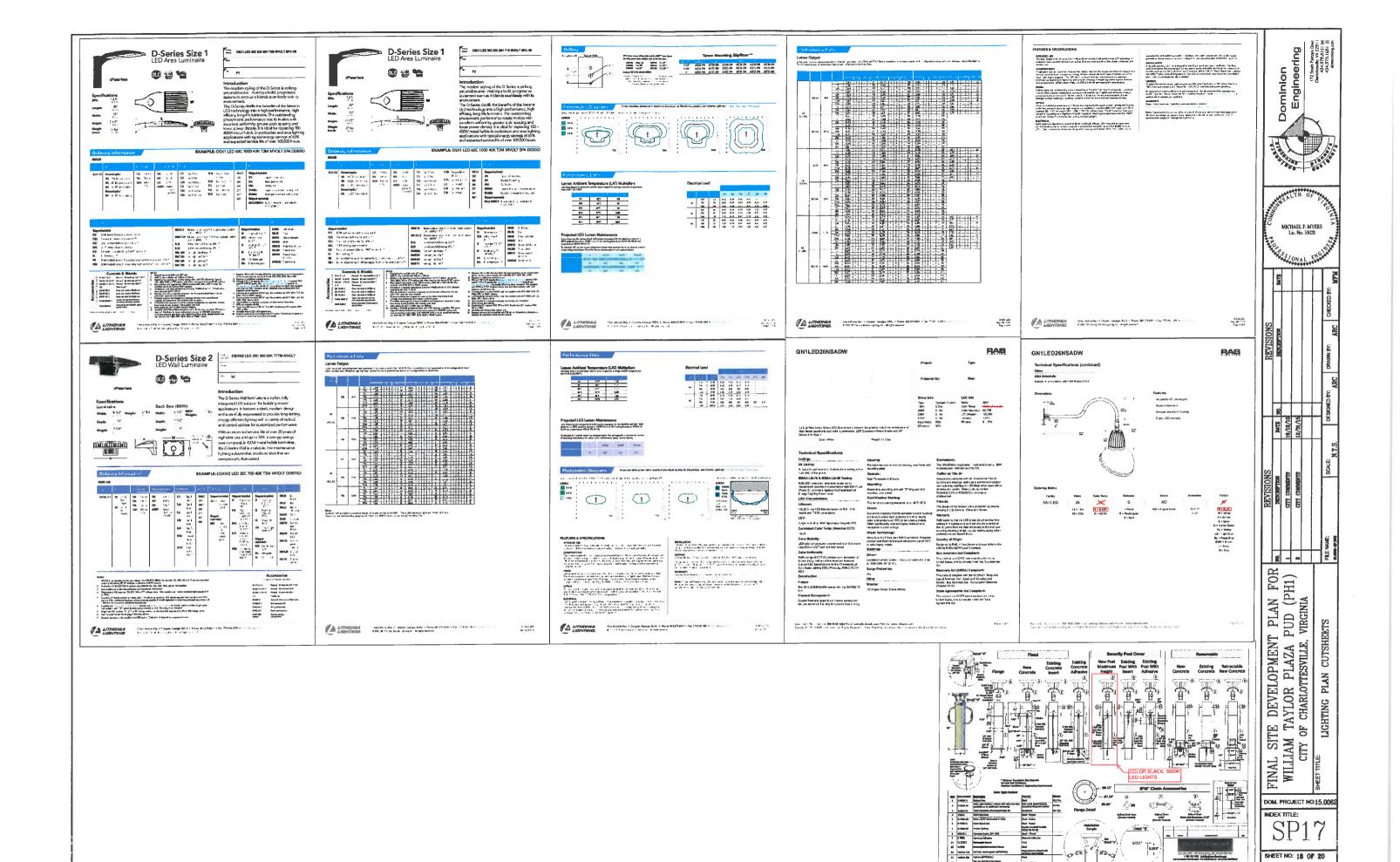
PLAN

LANDSCAPE

CT NO:15.0062 13A $\Omega \Gamma$

SHEET NO: 14 OF 20 DATE: 07/29/15





DATE: 07/29/15