



Board of Architectural Review

DATE: June 21, 2023
TO: Board of Architectural Review Chair and Members
THROUGH: Jason Sutphin, Community Development Division Chief *JDS*
FROM: Anna Kohlbrenner, BAR Liaison *AK*
SUBJECT: **Public Hearing: 10501, 10515, 10523 Main Street – City Centre West recommendation to City Council**

ATTACHMENTS: 1. Relevant Regulations
2. Current plan
3. Work session (2) meeting minutes

The previous work session staff report is too large to attach to the file. Please go to the city's meeting page to find the previous work session staff report and plan set if needed. (May 17, 2023 BAR meeting)

Nature of Request

1. Case Number:	BAR-22-00772
2. Address:	10501, 10515, 10523 Main Street
3. Request:	Mixed-use building
4. Applicant:	Ox Hill Realty LLC
5. Applicant's Representative:	Robert D. Brant
6. Status of Representative:	Attorney
7. Zoning:	CR Commercial Retail/CG Commercial General, Old Town Fairfax Transition Overlay District

BACKGROUND

The proposal went to the Board of Architectural Review for two previous work sessions, in November of 2022 and May of 2023.

The site is currently developed with a vacant 3,721 square foot bank with drive through, a vacant 4,408 square foot restaurant and an 11,340 square foot office building. The subject site is located on the south side of Main Street, west of West Street and north of Page Avenue and the Fairfax County Courthouse Public Safety Center, and east of Judicial Drive. It consists of a consolidation of three (3) parcels for a total of 1.784 +/- acres.

The applicant is proposing a Zoning Map Amendment (Rezoning) from CG, Commercial General and CR, Commercial Retail to CU, Commercial Urban in the Old Town Fairfax Transition Overlay

District (TOD); a Special Use Permit to allow a bank with a drive-through; Special Exceptions to allow the building height to exceed for 48 feet in the Transition Overlay District (TOD), to allow the density to exceed the maximum density of 24 units per acre in the CU Commercial Urban district, to exceed the maximum build-to line and maximum front yard requirements, to allow a waiver to the inter-parcel vehicular access requirement, and to allow modification to the requirement to provide a sidewalk on both sides of a street. As seen in section 6.17.5. Special Exceptions in the Zoning Ordinance, the Board of Architectural Review would be making two recommendations to the City Council. One recommendation would be for the special exceptions seen above. The second recommendation would be for the Major Certificate of Appropriateness. Recommendations to the City Council would take place at this meeting.

§6.17. SPECIAL EXCEPTIONS

§6.17.1. Applicability

- A. Special exceptions shall be reviewed in accordance with the provisions of §6.17.
- B. Special exceptions may be approved modifying:
 - 1. The specific use standards authorized by the §3.5. This should not be interpreted as authorizing uses not otherwise allowed by §3.3;
 - 2. The dimensional standards (for residential and nonresidential uses) of §3.6;
 - 3. All standards applicable to overlay districts (§3.7); and
 - 4. The site development standards of Article 1.
- C. Alternatively, and in conjunction with other development reviews or where two or more special exceptions are proposed as part of the same application on all district properties, except in the RL, RM and RH districts, the city council may serve as the board of zoning appeals and approve special exceptions.
- D. The board of zoning appeal shall have authority to approve all special exceptions in the RL, RM and RH districts.



§6.17.2. Pre-application meeting

Applicants submitting special exception applications shall hold a pre-application meeting in accordance with §6.2.1.

§6.17.3. Application requirements

Applications for special exceptions shall be submitted in accordance with §6.2.3.

§6.17.4. Notice and hearings

The city shall hold all required public hearings and give notice in accordance with §6.2.5.

§6.17.5. Action by zoning administrator

- A. The zoning administrator shall review each special exception application for compliance with the approval criteria of §6.17.7 and distribute the proposed plan to appropriate agencies and reviewers.
- B. Applications on historic district and the transition overlay district properties requiring a certificate of appropriateness will be submitted to the board of architectural review for recommendation prior to action by the decision-making body.
- C. The zoning administrator shall provide a report and recommendation to the decision-making body.

PROPOSAL

The applicant proposes to redevelop a bank with drive through, a vacant restaurant and a low-rise office building with a proposed upper-story mixed use building that consists of 79 multifamily condominium units, 10,079 square feet of general office uses, 8,584 square feet of medical and dental office uses,

7,731 square feet of retail and restaurant uses, and 18,199 square feet of bank with drive through on 1.78 +/- acres. Building frontage along Main Street would be approximately 425'. Building width would be approximately 120' and building height would be approximately 94' from proposed average grade.

Parking level four is the lowest level of the building, holding 47 commercial spaces. Parking level three would hold 94 commercial spaces. Parking level two is accessible from turning onto the private street and entering the garage at the back of the building. There would be two total entryways for the proposed parking garage. This parking level would have drive through automated tellers with an ATM in addition to 91 residential spots. Parking level one would include medical space, bank space, and shared areas, in addition to a loading dock with 6 commercial spaces, 52 residential spaces, 3 drop-off spaces, and 3 visitor spaces. Rooftop equipment would add an additional 10' in height, which would be screened by an aluminum roof screen in color *dellwood sand*.

There are 7 additional levels of the building which include bank, office, residential, retail, medical, and restaurant.

The applicant is proposing two different colors of brick. Brick would be architectural linear series brick 2-1/4" in height in colors *grey burnt umber* and *warm burnt umber* with mortar color *dellwood sand*. Brick in color *grey burnt umber* will be on the lower levels of the building. Brick in color *warm burnt umber* will be on the higher levels of the building. The applicant is proposing an aluminum window system, storefront system, balcony railings, overhead doors, and metal railings with a powder coated finish in color *metallic grey*. Glass guardrails are proposed on two floors which would be fixed to an aluminum system.

Exterior lighting would be a variety of recessed lighting, pole, and bullet light. The applicant is proposing a brick sidewalk, porcelain pavers, handrail, step lights, trash cans, benches, bike rack, and tree grates.

The city's Urban Forester is reviewing the landscaping plan. A recommendation has been added stating, "Landscaping is subject to change per urban forester comments at site plan approval stage." The applicant has added that HOA will maintain all plant material within the terrace and balcony planters. Terrace and balcony species include: *Karl Forester Feather Reed Grass*, *Sky Pencil Japanese Holly*, *Japanese Pieris*, and *Dwarf Globe Arborvitae*. Canopy species include: *Firespire American Hornbeam*, *Tupelo Tower Black Gum*, *Eastern Hophornbeam*, *Sourwood*, *October Glory Red Maple*, *River Birch*, *Valley Forge Elm*, and *Princeton Sentry Ginkgo*. Understory species include: *Twilight Crape Myrtle* and *Sweetbay Magnolia*. Evergreen species include: *Clarendon American Holly*, *Blue Arrow Juniper*, and *Degroot's Spire Arborvitae*.

RELEVANT DESIGN GUIDELINES

City of Fairfax Design Guidelines:

*The following excerpts from the Design Guidelines are relevant to this application.
Transition Overlay District Overview, TOD-1*

Transition Overlay District Goal, TOD-1.1

Build on the existing character of the neighboring HOD without copying it when designing new buildings in the TOD. Maintain and strengthen the TOD street "wall" at properties adjacent to the HOD, and strengthen the street edge with buildings and landscape throughout the district. Respect the boundary between the commercial areas and surrounding neighborhoods. Undertake changes that will improve pedestrian routes between the TOD and surrounding neighborhoods. Continue the emphasis on attractive and well-maintained landscaping within the TOD. Respect the existing physical street patterns and lot orientation of the HOD when redeveloping sections of the TOD.

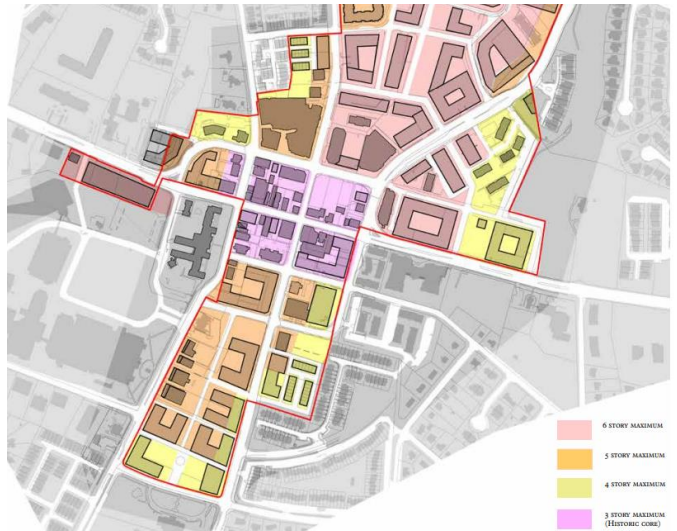
This proposed redevelopment is located on one of the main entrances to the historic overlay district. The site is across from Truro church which is contributing on the National Register. The site is diagonal from the National Bank of Fairfax site located at 10440 Main Street that is contributing. The site is in proximity to the historic jail and courthouse in the County, also contributing on the National Register. The proposed redevelopment would add significant height along Main Street. The grade along Main Street slopes significantly away from the historic core. As seen in the Old Town Fairfax Small Area Plan, "In this diagram, the Small Area Plan project team recommends a tailored approach to height limits by establishing a lower height limit setback of 4 stories closer to adjacent residential communities. Areas not close to adjacent residential structures are recommended to have a 6 story height limit. Hybrid transition areas are designated with a 5 story or a 4 story height limit. The historic core of downtown is recommended to remain limited to 3 stories. Height limits and setbacks must both allow feasible development to occur while also respecting historical and nearby existing single family uses. At key locations where the study area is adjacent to residential areas, the plan proposes lower scale townhouse uses or pedestrian friendly green spaces and streetscapes to allow a clean visual and programmatic transition. The plan focuses larger scale redevelopment in Old Town North and Old Town South. Taller buildings conform to the existing character established by the larger existing office buildings and nearby tall structures at the Massey Complex." There is room for increased growth and height as seen in the Old Town Fairfax Small Area Plan.

Transition Overlay District Character, TOD-1.2

The height limit in the TOD is 48 feet, or four levels, for new buildings.

Building height surpasses the recommended height limit, applicant would need a special exception for this reason. Building height would be roughly 94' from average grade. There are ongoing tasks by city staff to change regulatory and policy documents to reflect Old Town Fairfax Small Area Plan. While the building exceeds the maximum height of the TOD standard, the latest policy guidance is found in the SAP. Criteria for approving an SE is in part based on conformance to comprehensive plan

guidance, and the SAP recommends increased height in this location. BAR should consider if the height is too high given the proximity of historic sites, and if the applicant has used the techniques outlined in Design Guidelines to treat a large building. The proposed building exceeds recommendation maximum height of 6 stories seen in the SAP maps below:



Alternative uses as public open space and/or townhouses

Infill Construction (Residential / Mixed-Use Building):

- 5 story height limit
- Preservation/renovation of historic bank building

New Construction (Performing Arts Center / Hotel):

- 6 story height limit
- Potential for increased height limit for special uses with civic benefits, such as boutique hotel / arts center
- Architecturally sensitive and contextual, due to height and massing

Historic Courthouse (to be coordinated with County):

- New lighting for historic building

New Construction, TOD-3

Building Types, TOD-3.3

Sometimes new commercial, office or mixed-use buildings will be constructed on larger sites. They may be a single large site or several lots assembled from smaller parcels that can translate into new structures whose scale and mass could overwhelm neighboring existing

buildings. Therefore, while this building type needs to respond to the various building conditions of the site, it also should employ design techniques to reduce its visual presence.

There could be improvement along the pedestrian realm along Main, as the building continues to propose a large brick wall at pedestrian height.

Building Size & Footprint, TOD-3.6

Institutional and multi-lot buildings by their nature will have large footprints. Therefore, the massing of these large-scale structures should be reduced so they will not overpower the traditional scale of the neighboring HOD. Techniques could include varying the surface planes of the building, stepping back the building as the structure increases in height, and breaking up the roofline with different elements to create smaller compositions.

The building roofline is flat with little technique to vary surface planes along the roofline.

Building Height & Width, TOD-3.7

The maximum height of new buildings in the TOD can allow for a height of four stories. In some instances, four stories may be inappropriately tall. Many commercial buildings in the neighboring downtown area average 30 feet in width. If new buildings are wider than this size, their primary facades should be divided into bays to reflect the predominant width of the existing buildings. Buildings that front on two or more sides should use this bay division technique on all appropriate facades. These bays also should have varied planes within the overall façade. Mixed-use buildings should typically have a taller ground floor to accommodate for commercial uses.

While the building's upper floors are broken into repetitive bays, the ground floor pedestrian realm along Main Street has a long stretch that is not. Staff recommends further breaking up that area with fenestration changes, installation of art, or experiential elements.

Building Scale, TOD-3.7

Reinforce the human scale of new design in the TOD by including different materials or colors, or elements such as entrance and window trim, cornices, string and belt courses to separate floor levels, pilaster-like elements to separate bays, and other decorative features.

Roof Form & Materials, TOD-3.8

Multi-lot buildings or large-scaled buildings should have a varied roof line to break up the mass of the design using gable and/or hipped forms or different height of sloped bays. If roof-mounted mechanical or other equipment is used, it should be screened from public view on all sides.

The proposed rooftop mechanical equipment would be screened from view.

Window Types & Patterns, TOD-3.9

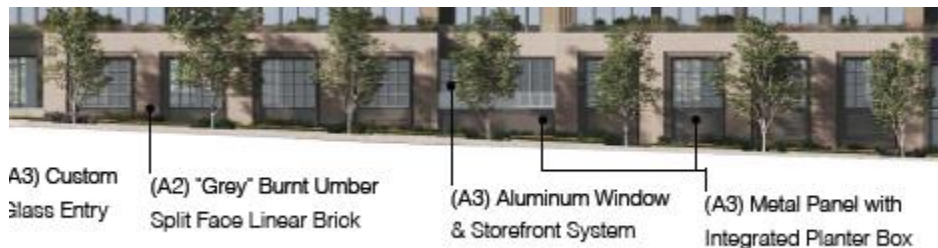
Glass storefronts would generally have more horizontal proportions than upper floor openings. Window proportions in new designs in the TOD may have more flexibility in their proportions than in the HOD.

The proposed windows along Main Street are not at pedestrian level.

Entry Features: Storefronts, Porches & Doors, TOD-3.10

When designing new storefronts in the TOD, continue with the concept of display windows, but the design may have more glass and a wider range of materials than the traditional storefronts of the HOD. Keep the ground levels of new retail commercial buildings at least sixty percent transparent up to a level of ten feet if possible.

The proposed window design appears repetitious on the first floor along Main Street. Staff suggests varying the appearance along Main Street.



Materials, Textures & Colors, TOD-3.11

The selection of materials and textures for a new building in the TOD should be compatible with, and complement, the neighboring historic buildings. Brick, stone, and wood siding or cementitious siding are the most appropriate materials for new buildings. Most new brick buildings currently use a brick facing over a frame instead of a solid brick wall. Large scale multi-lot buildings whose primary facades have been divided into different bays and planes to relate to existing neighboring buildings may vary materials, shades, and textures.

Given the scale of the proposed building, length, and height, the east side of the building does not respect the HOD. Staff recommends using a third more traditional brick color on floors 2-6 on the eastern portion of building as seen in staff recommendation. (see below for rendering example, done by staff)



Building-Mounted Lighting, TOD-3.13

Fixtures should utilize an incandescent, LED, fluorescent, metal halide, or color corrected high-pressure sodium lighting sources. Fixtures should be the full cutoff variety to limit the impact of lighting on neighboring properties and on the night sky.

Signs, TOD-5

Disallowed Sign Types, TOD-5.5

Rooftop signs, moving signs, billboards, and off-site signs and portable signs (other than sandwich signs) are not allowed. Temporary signs are not reviewed in the transition district.

Proposed signage is shown but no details have been provided and a sign permit has not been provided. A new minor certificate for signage will be required.

The site is located inside the Old Town Fairfax Small Area Plan boundaries and categorized as activity center in the Comprehensive Plan for future land use.

Improvements shown within Fairfax County are not part of this approval.

RECOMMENDATION

Major Certificate of Appropriateness:

Staff believes that the proposal complies with applicable provisions of the Zoning Ordinance stated under section 6.5.7. *Approval criteria* and is in general conformance with the Design Guidelines for the Transition Overlay District, and therefore recommends that the Board of Architectural Review provide a conditional recommendation of approval to the City Council provided that the applicant makes revisions to address the following conditions:

1. The proposed development shall be in general conformance with the plans and renderings received by staff in June 2023 and recommended for approval by the Board of Architectural Review as of June 21, 2023.
2. The applicant shall secure all required zoning approvals and permits prior to construction.
3. The applicant shall differentiate the eastern stepped back portion of the building to include a brick color palette closer to historic buildings, such as the jail and courthouse on floors 2-6 to further break up the massing of the building.
4. The applicant shall further break up the ground floor along Main Street to engage the pedestrian realm with fenestration changes, installation of art, or experiential elements.
5. Landscaping is subject to change per urban forester comments at site plan approval stage.

Special Exceptions:

Staff finds the request of the applicant, pursuant to City Code Section 11-6.17.1.B.3, for Special Exceptions from the provisions of City Code Section 11-3.7.3.C.2 to the building height to exceed for 48 feet in the Transition Overlay District (TOD), to allow the density to exceed the maximum density of 24 units per acre in the CU Commercial Urban district, to exceed the maximum build-to line and maximum front yard requirements, to allow a waiver to the inter-parcel vehicular access requirement, and to allow modification to the requirement to provide a sidewalk on both sides of a street to be appropriate, and recommends that the BAR recommend to City Council approval of the request.

ATTACHMENT 1

RELEVANT REGULATIONS

§6.5.1. Applicability

Certificates of appropriateness shall be reviewed in accordance with the provisions of §6.5.

A. A certificate of appropriateness shall be required:

1. To any material change in the appearance of a building, structure, or site visible from public places (rights-of-way, plazas, squares, parks, government sites, and similar) and located in a historic overlay district (§3.7.2), the Old Town Fairfax Transition Overlay District (§3.7.3), or in the Architectural Control Overlay District (§3.7.4). For purposes of §6.5, “material change in appearance” shall include construction; reconstruction; exterior alteration, including changing the color of a structure or substantial portion thereof; demolition or relocation that affects the appearance of a building, structure or site;

§6.5.3. Certificate of appropriateness types

A. Major certificates of appropriateness

1. Approval authority

(a) General

Except as specified in §6.5.3.B.2(b), below, the board of architectural review shall have authority to approve major certificates of appropriateness.

(b) Alternative (in conjunction with other reviews)

Alternatively, and in conjunction with special use reviews, planned development reviews, special exceptions or map amendments (rezoning), the city council may approve major certificates of appropriateness.

§6.5.6. Action by decision-making body

A. General (involving other review by city council)

After receiving the director’s report on proposed certificates of appropriateness, which do not involve other reviews described below, the board of architectural review (BAR) shall review the proposed certificates of appropriateness in accordance with the approval criteria of §6.5.7. The BAR may request modifications of applications in order that the proposal may better comply with the approval criteria. Following such review, the BAR may approve, approve with modifications or conditions, or disapprove the certificate of appropriateness application, or it may table or defer the application.

B. Other reviews

1. Prior to taking action on special use reviews, planned development reviews, and map amendments (rezoning), the city council shall refer proposed certificates of appropriateness to the BAR for review in accordance with the approval criteria of §6.5.7.
2. In conjunction with special use reviews, planned development reviews, special exceptions and map amendments (rezoning), the city council may review the proposed certificate of

appropriateness in accordance with the approval criteria of §6.5.7. The city council may request modifications of applications in order that the proposal may better comply with the approval criteria. Following such review, the city council may approve, approve with modifications or conditions, or disapprove the certificate of appropriateness application, or it may table or defer the application.

§6.5.7. Approval criteria

A. General

1. Certificate of appropriateness applications shall be reviewed for consistency with the applicable provisions of this chapter, any adopted design guidelines, and the community appearance plan.
2. Approved certificates of appropriateness shall exhibit a combination of architectural elements including design, line, mass, dimension, color, material, texture, lighting, landscaping, roof line and height conform to accepted architectural principles and exhibit external characteristics of demonstrated architectural and aesthetic durability.

§6.5.9. Action following approval

- A. Approval of any certificate of appropriateness shall be evidenced by issuance of a certificate of appropriateness, including any conditions, signed by the director or the chairman of the board of architectural review. The director shall keep a record of decisions rendered.
- B. The applicant shall be issued the original of the certificate, and a copy shall be maintained on file in the director's office.

§6.5.10. Period of validity

A certificate of appropriateness shall become null and void if no significant improvement or alteration is made in accordance with the approved application within 18 months from the date of approval. On written request from an applicant, the director may grant a single extension for a period of up to six months if, based upon submissions from the applicant, the director finds that conditions on the site and in the area of the proposed project are essentially the same as when approval originally was granted.

§6.5.11. Time lapse between similar applications

- A. The director will not accept, hear or consider substantially the same application for a proposed certificate of appropriateness within a period of 12 months from the date a similar application was denied, except as provided in §6.5.11.B, below.
- B. Upon disapproval of an application, the director and/or board of architectural review may make recommendations pertaining to design, texture, material, color, line, mass, dimensions or lighting. The director and/or board of architectural review may again consider a disapproved application if within 90 days of the decision to disapprove the applicant has amended his application in substantial accordance with such recommendations.

§6.5.12. Transfer of certificates of appropriateness

Approved certificates of appropriateness, and any attached conditions, run with the land and are not affected by changes in tenancy or ownership.

§6.5.13. Appeals

A. Appeals to city council

Final decisions on certificates of appropriateness made may be appealed to city council within 30 days of the decision in accordance with §6.22.

B. Appeals to court

Final decisions of the city council on certificates of appropriateness may be appealed within 30 days of the decision in accordance with §6.23.



CITY CENTRE WEST

AN OX HILL PROPERTY
CERTIFICATE OF APPROPRIATENESS



STREET VIEW OF PROJECT 1



STREET VIEW OF PROJECT 2



STREET VIEW OF PROJECT 3



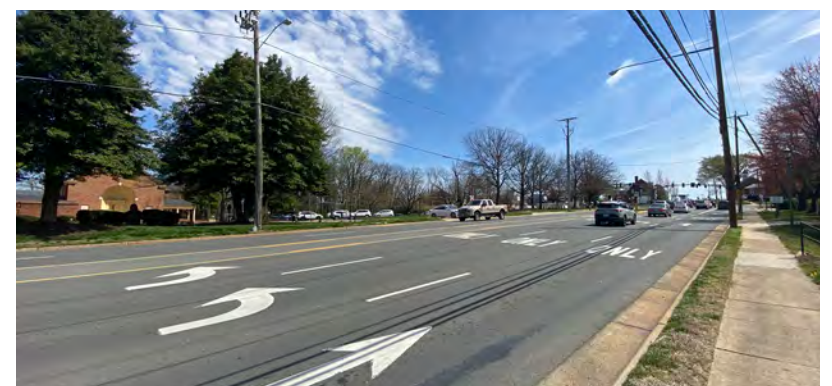
Site Plan, 10501 Main St., Fairfax, VA 22030



STREET VIEW FROM PROJECT 4









STREET VIEW FROM PROJECT 5

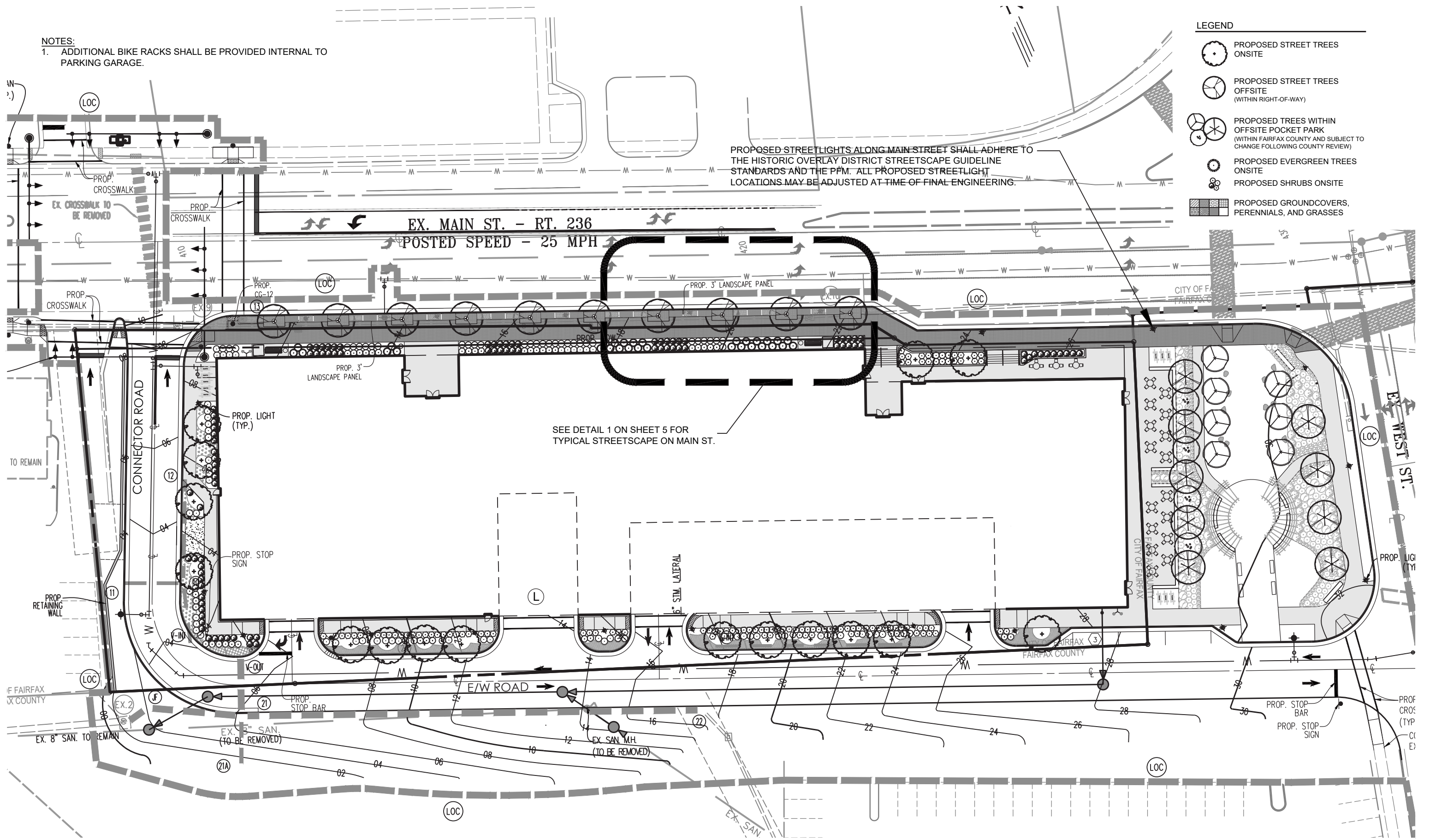


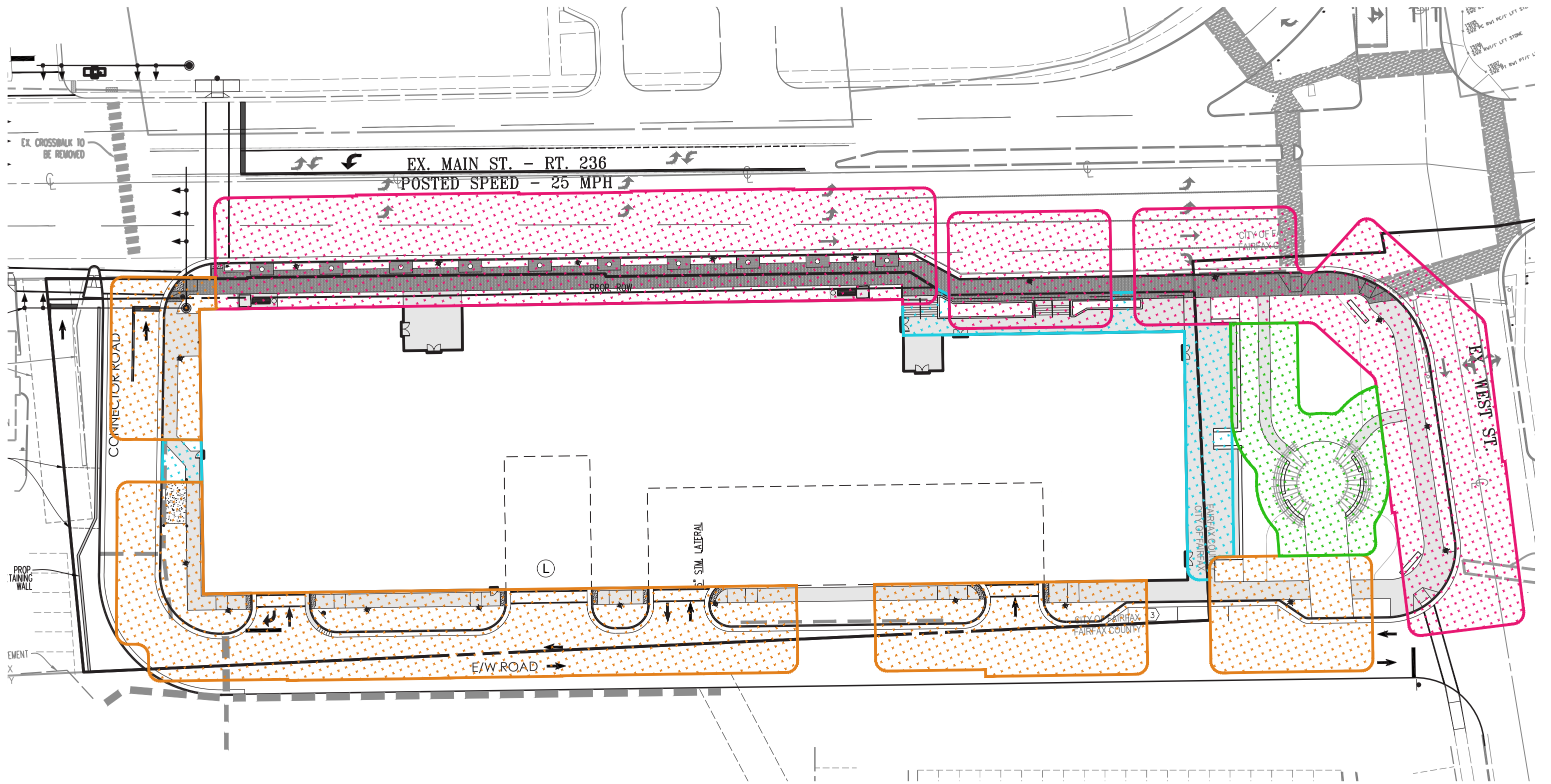
STREET VIEW FROM PROJECT 6



NOTES:
 1. ADDITIONAL BIKE RACKS SHALL BE PROVIDED INTERNAL TO PARKING GARAGE.

- LEGEND**
-  PROPOSED STREET TREES ONSITE
 -  PROPOSED STREET TREES OFFSITE (WITHIN RIGHT-OF-WAY)
 -  PROPOSED TREES WITHIN OFFSITE POCKET PARK (WITHIN FAIRFAX COUNTY AND SUBJECT TO CHANGE FOLLOWING COUNTY REVIEW)
 -  PROPOSED EVERGREEN TREES ONSITE
 -  PROPOSED SHRUBS ONSITE
 -  PROPOSED GROUNDCOVERS, PERENNIALS, AND GRASSES

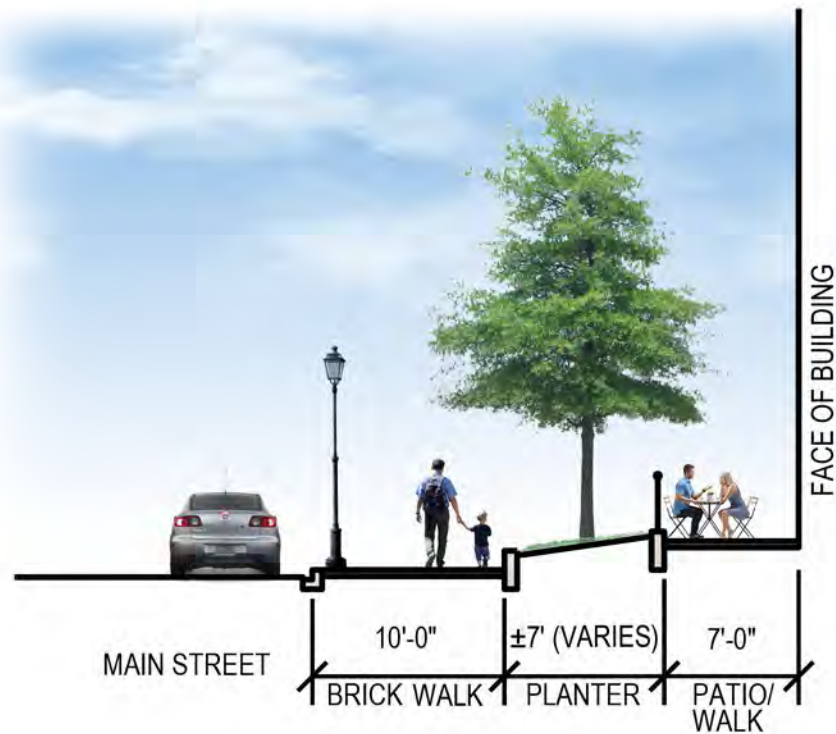




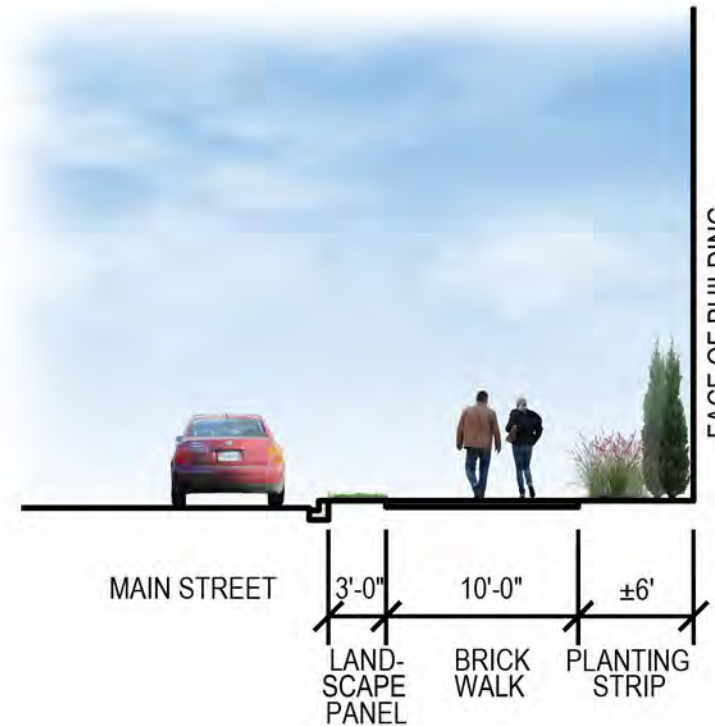
LEGEND

- PROPOSED STREET LIGHT
- PUBLIC STREET LIGHT ZONES
- PRIVATE STREET LIGHT ZONES
- BUILDING MOUNTED LIGHT ZONES
- PEDESTRIAN LIGHT ZONES

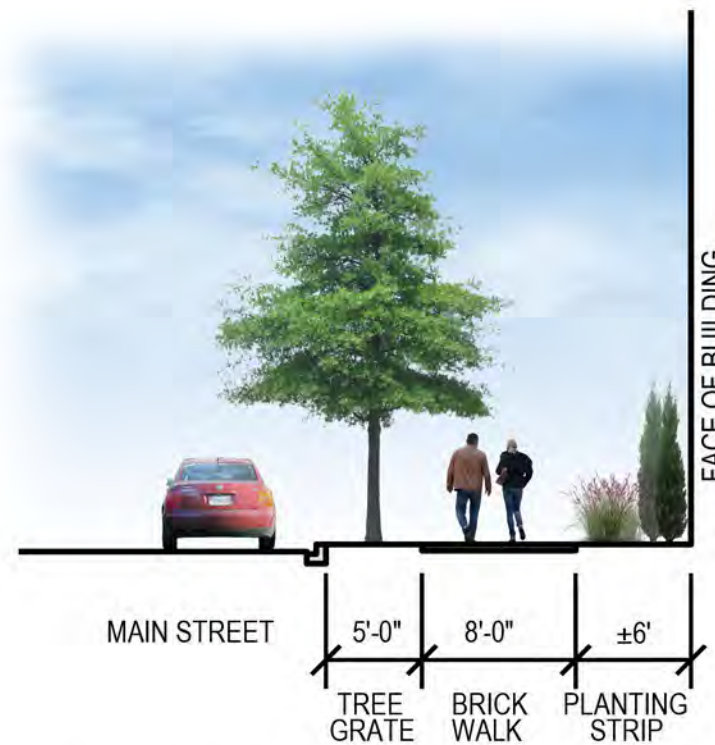
RACE
 = 395.82
 = 417.13
 = 427 R2



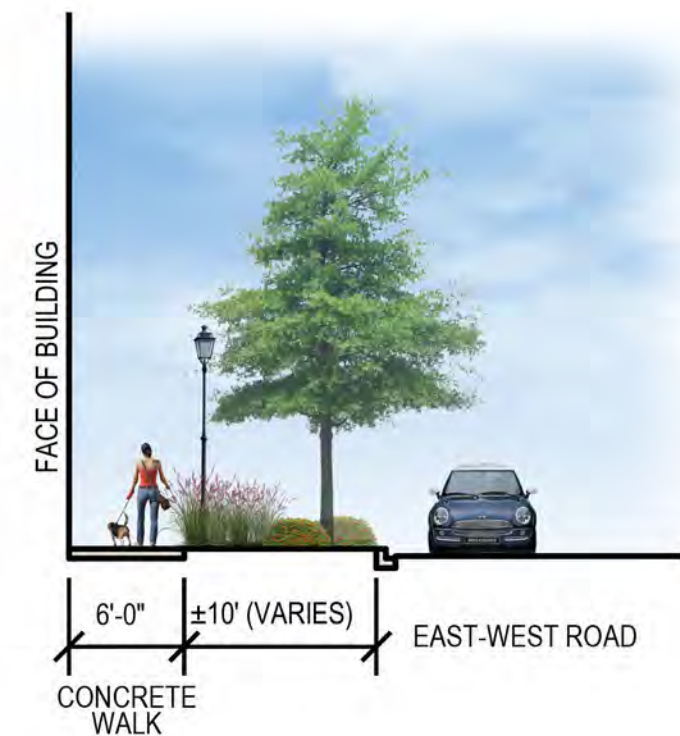
SECTION 'A'
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SECTION 'B'
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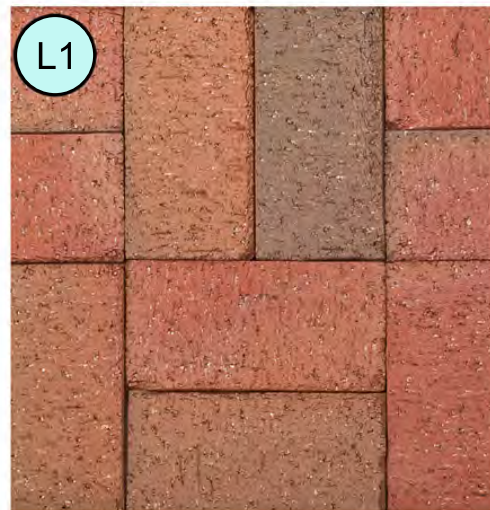


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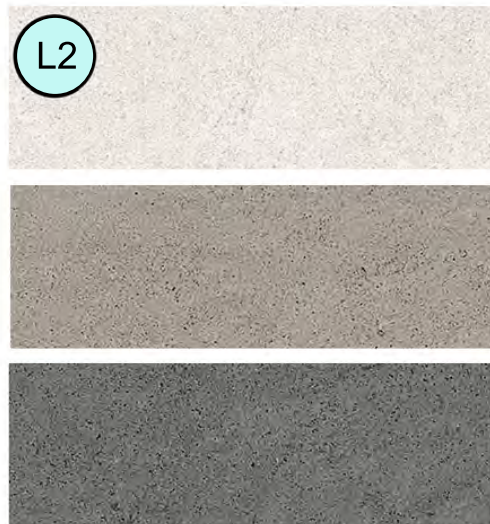


SECTION 'D'
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PEDESTRIAN PAVING

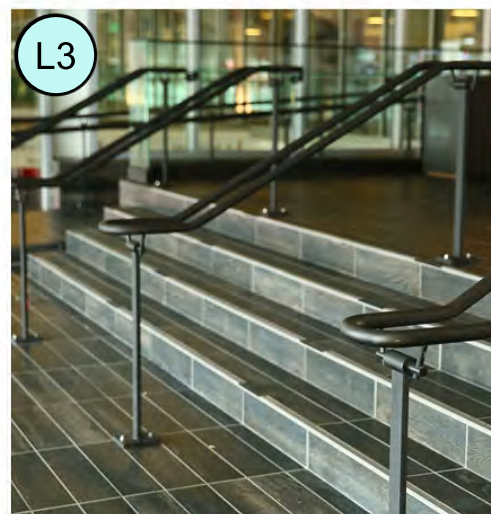


Brick Pavers: Pine Hall Pathway F/R

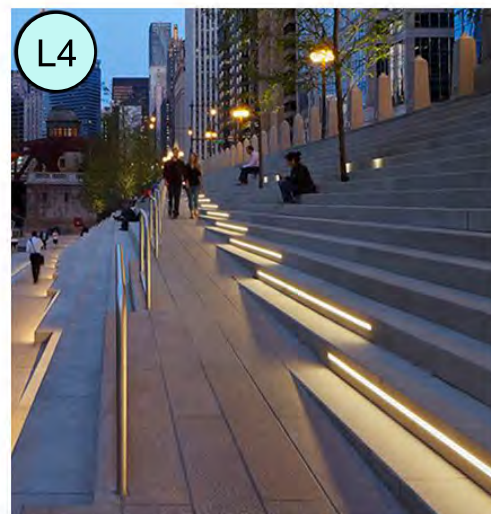


Porcelain Pavers:
Architessa Frontier 20
Stone Look Mix (Sky,
Absolute, Cosmos)

STAIRS



Handrail



Step Lights

ADDITIONAL FEATURES



Trash Receptacle



Bench



Bike Rack



Light Pole Fixture



Tree Grate



Bullet Light



Balcony Containers

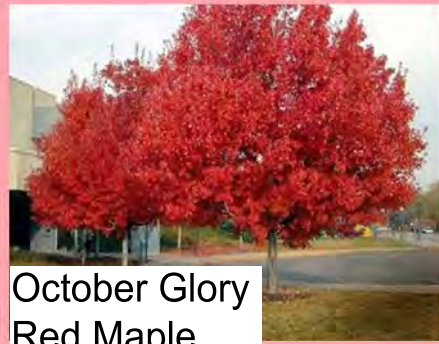


Rooftop Pavers:
Hanover Prest

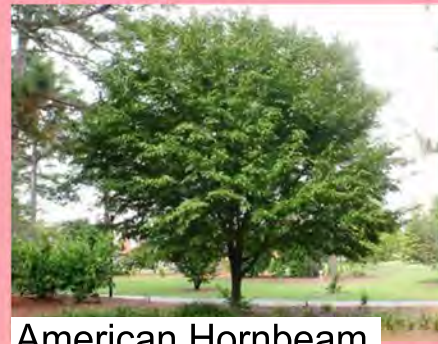


Green Roof
Tray System

STREET TREES



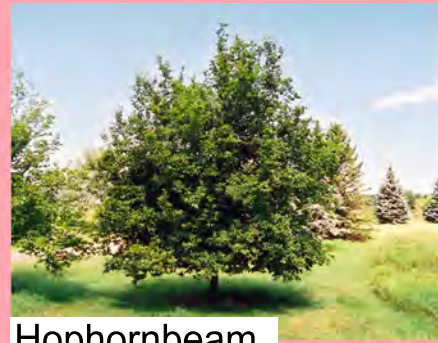
October Glory
Red Maple



American Hornbeam



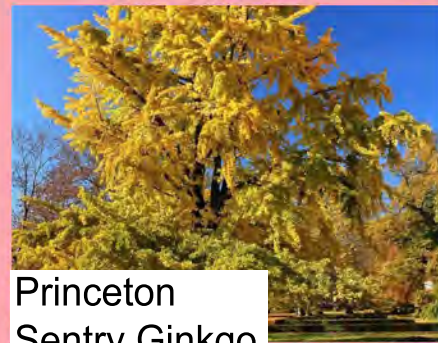
Blackgum



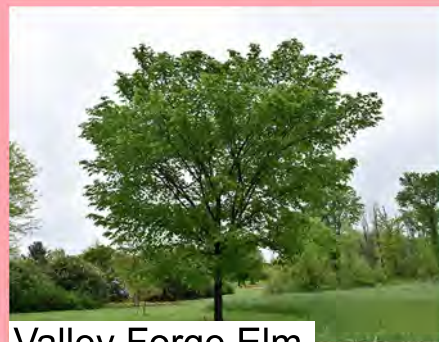
Hophornbeam



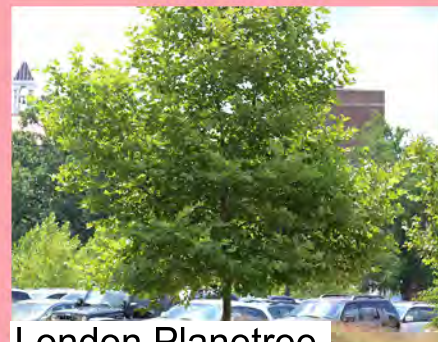
Sourwood



Princeton
Sentry Ginkgo



Valley Forge Elm



London Planetree

SHRUBS



Summersweet



Winterberry



Virginia Sweetspire



Dwarf Fothergilla

GROUNDCOVERS



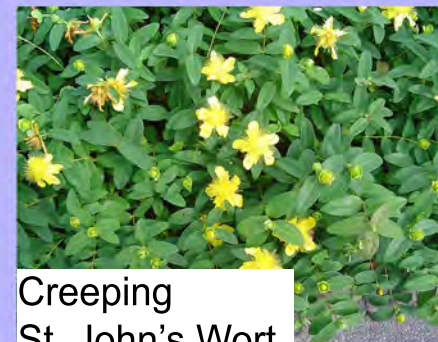
Snow-in-Summer



Wild Ginger



Sweet Woodruff



Creeping
St. John's Wort

PLANTS FOR PLANTER POTS



Crocus



Persian Shield



Ornamental Kale



Aromatic Aster

PLANTS FOR TERRACE/BALCONY PLANTERS



Karl Foerster
Feather Reed Grass



Dwarf Globe Arborvitae

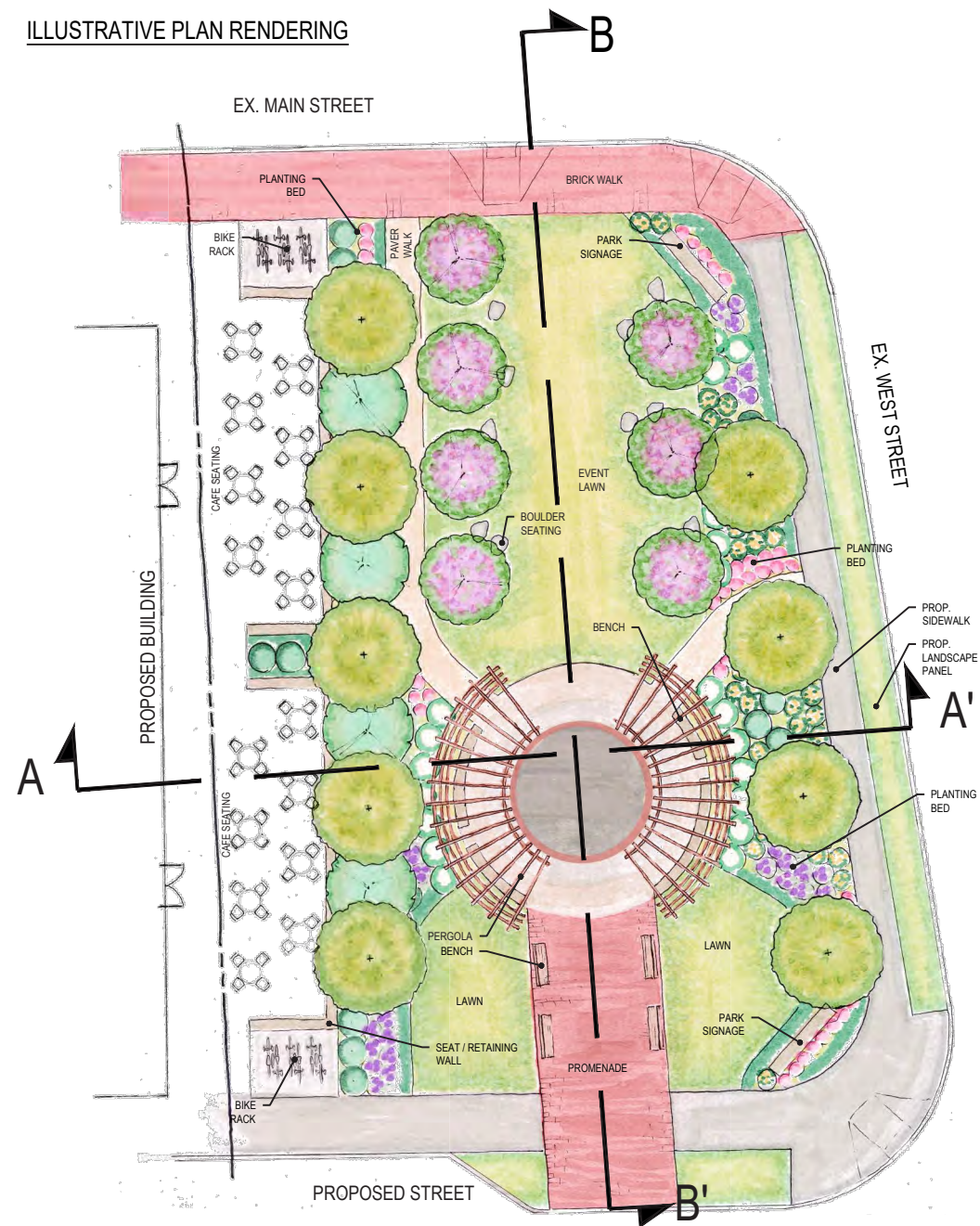


Japanese Pieris



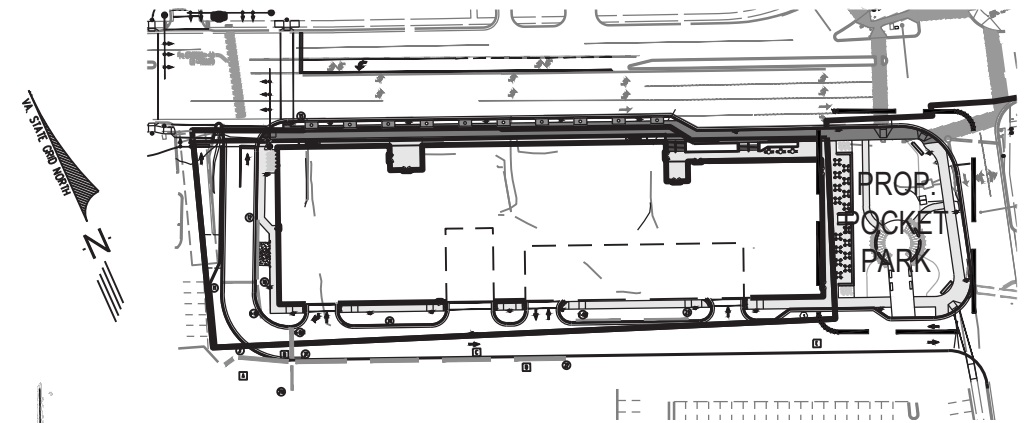
Sky Pencil Holly

ILLUSTRATIVE PLAN RENDERING

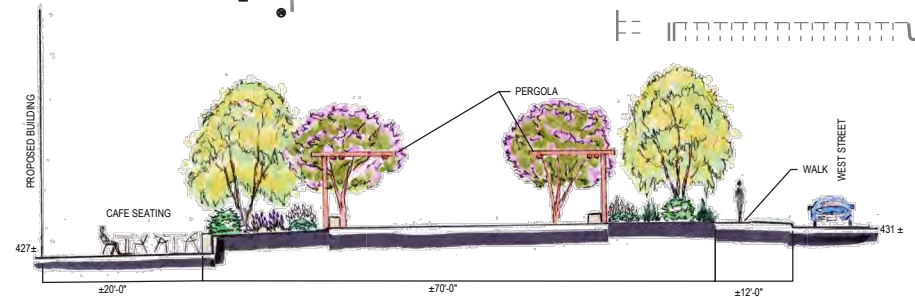


FOR ILLUSTRATIVE PURPOSES ONLY

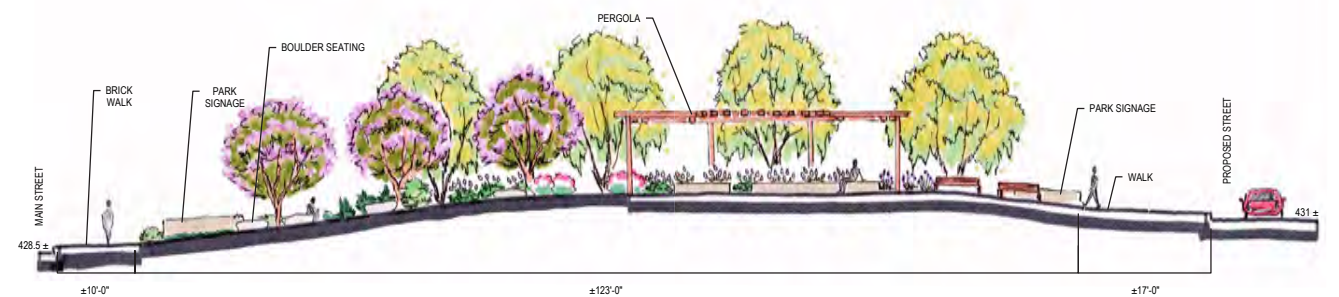
CONCEPTUAL POCKET PARK PLAN SHOWN FOR REFERENCE ONLY. SUBJECT TO CHANGE BASED ON FAIRFAX COUNTY REVIEW AND APPROVAL.



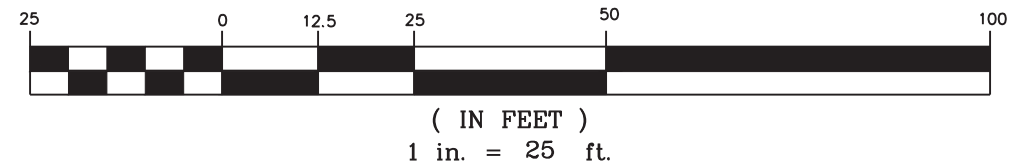
SECTION A-A'



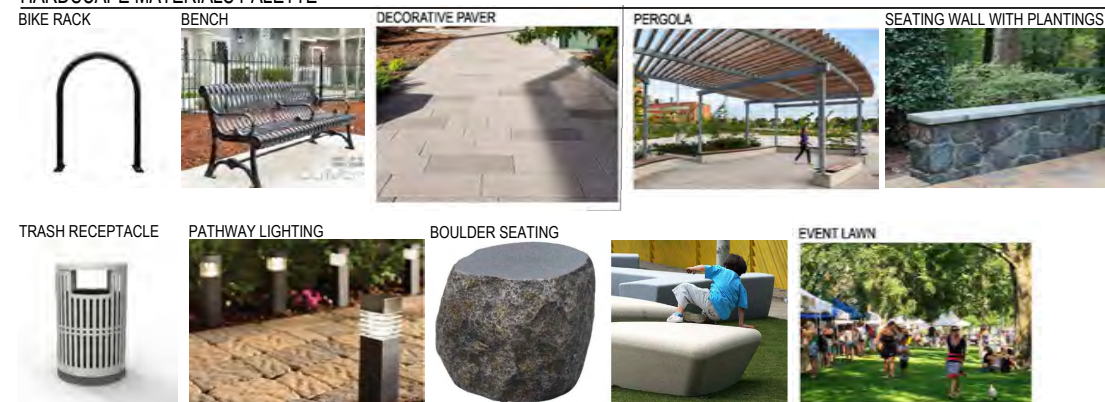
SECTION B-B'



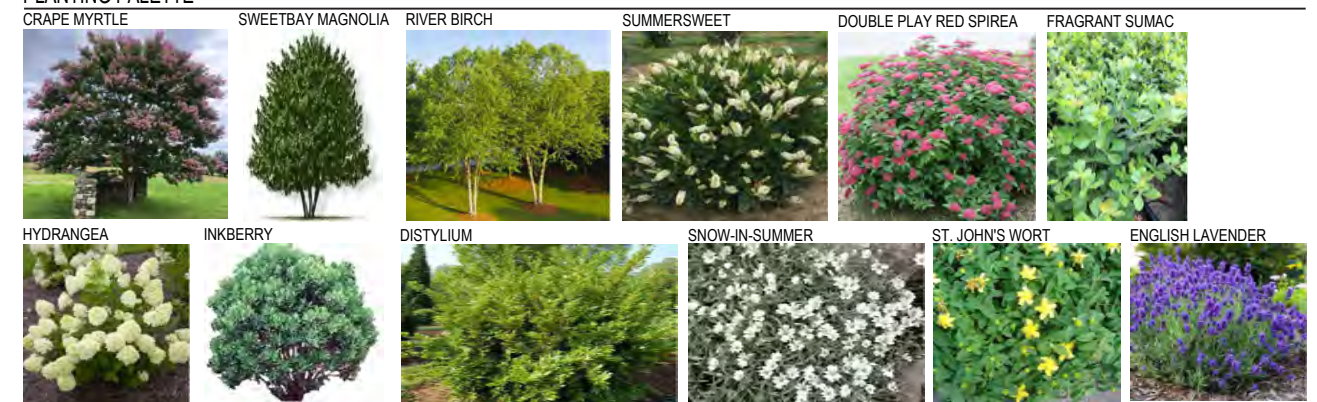
GRAPHIC SCALE



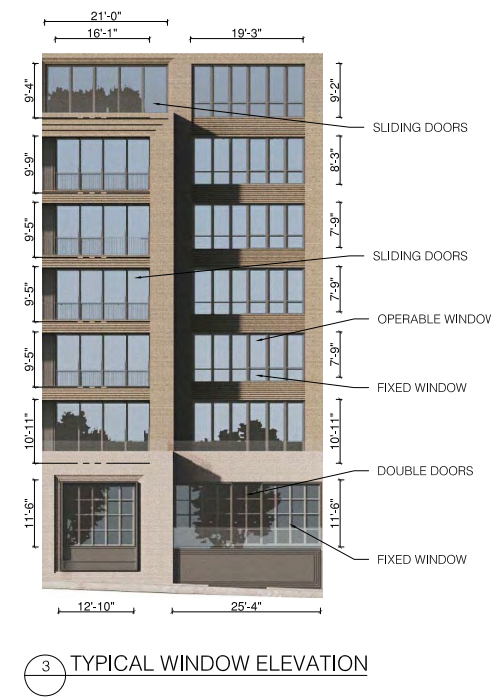
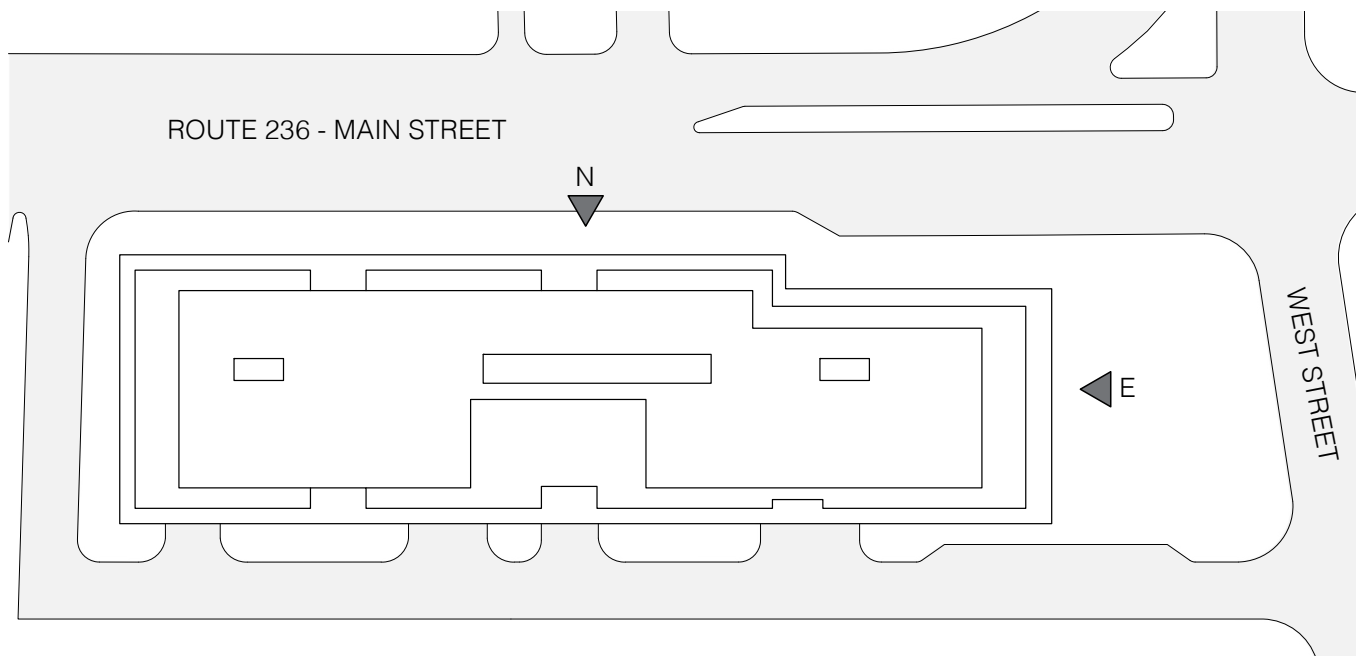
HARDSCAPE MATERIALS PALETTE



PLANTING PALETTE

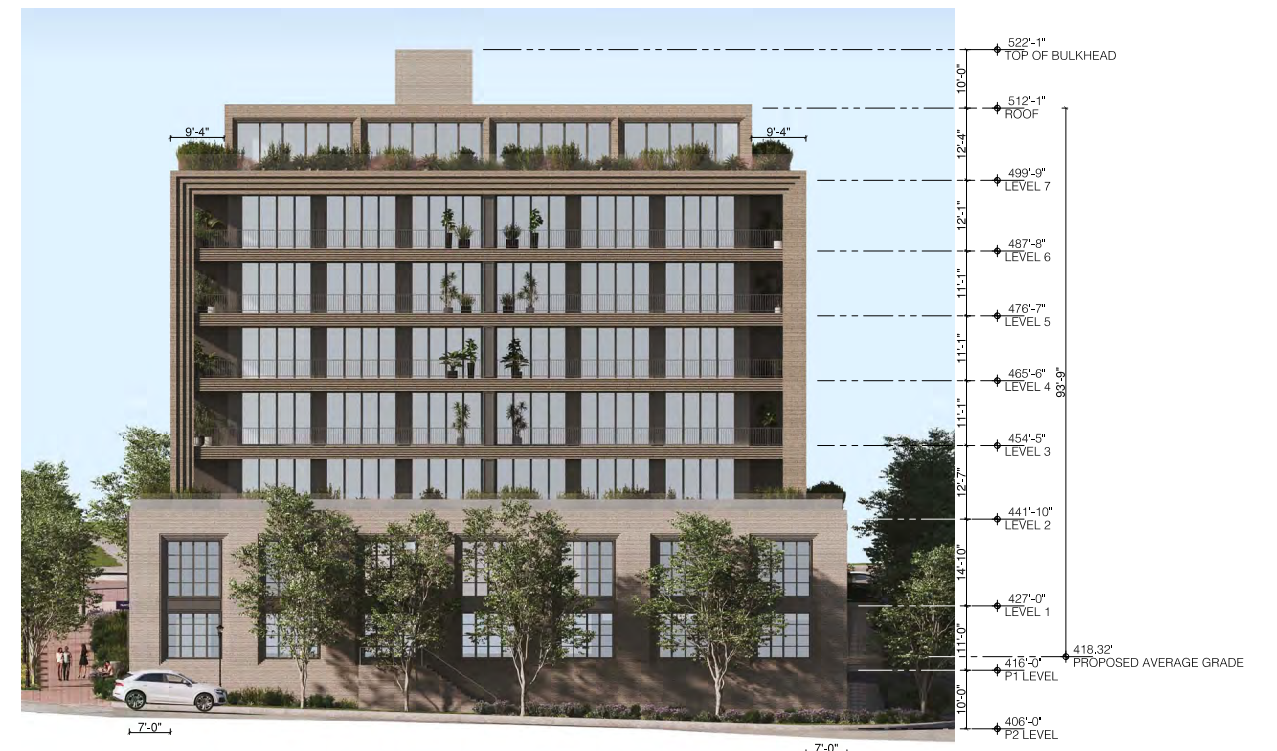
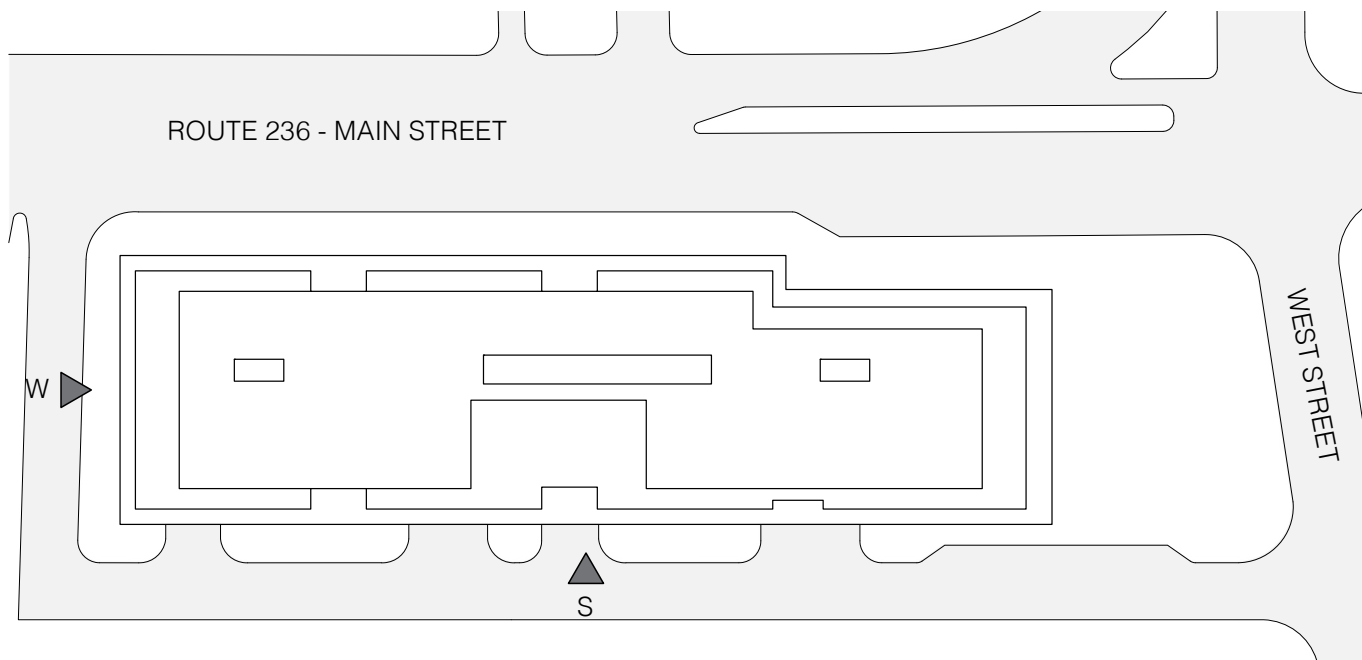
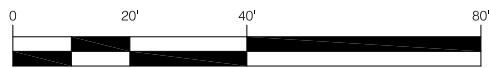




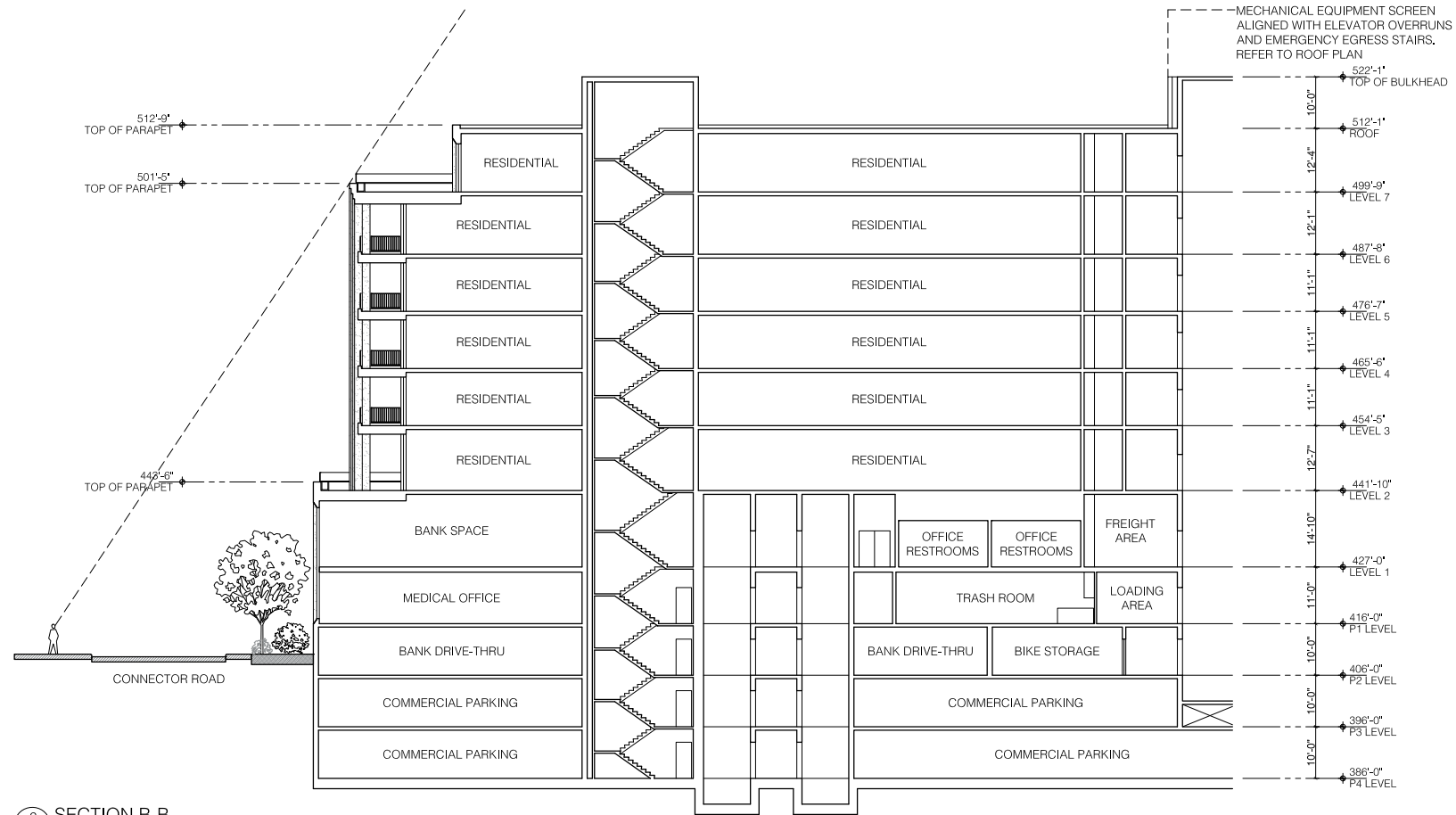




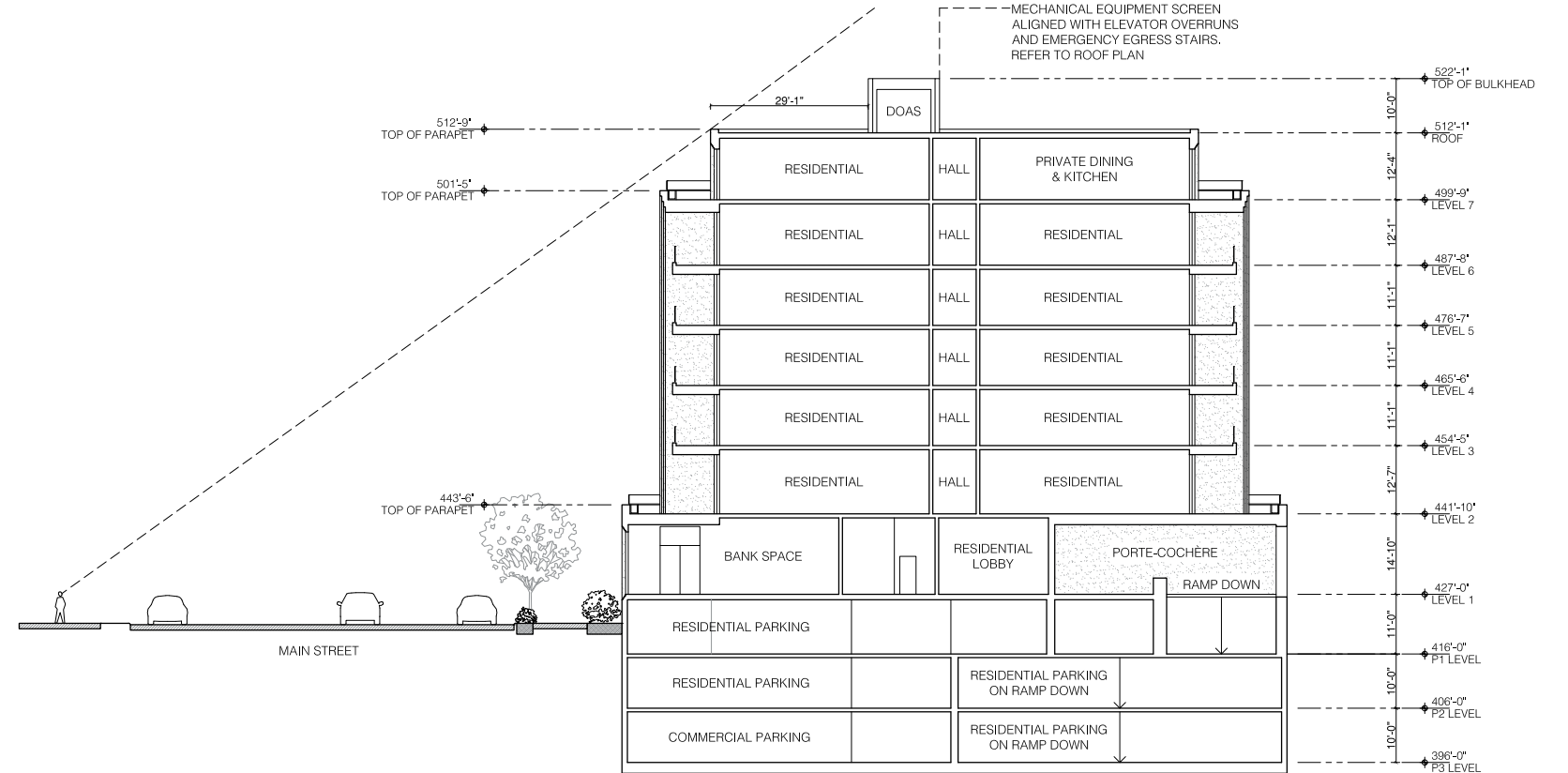
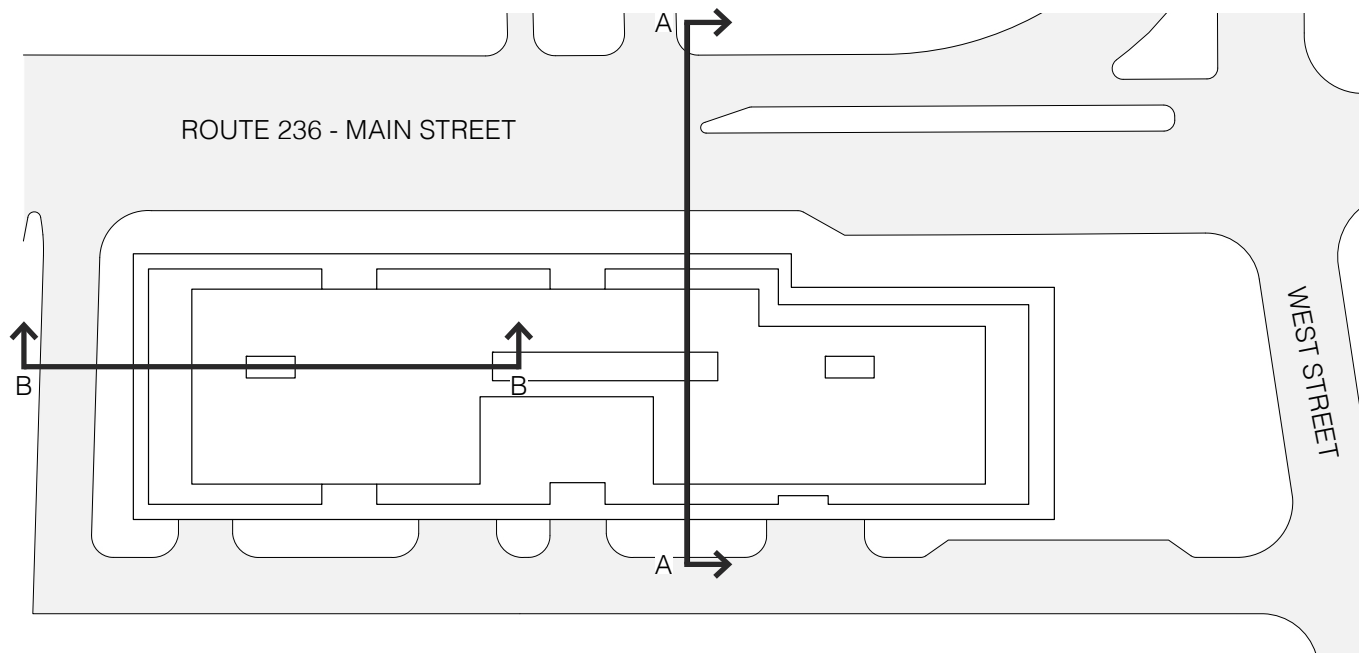
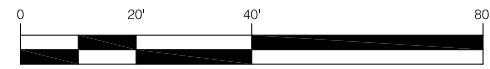
2 SOUTH ELEVATION



1 WEST ELEVATION

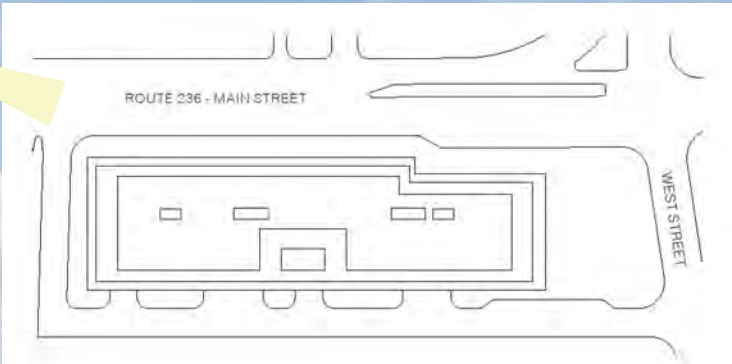


2 SECTION B-B

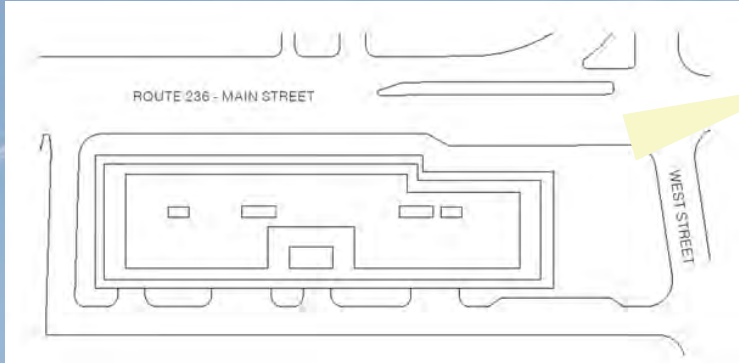


1 SECTION A-A

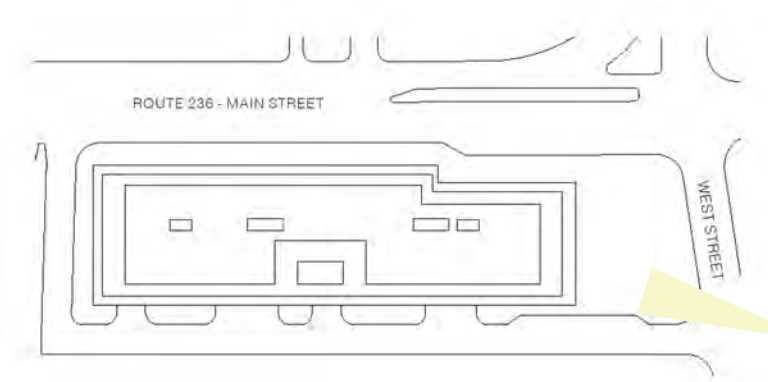
City Centre West View #1



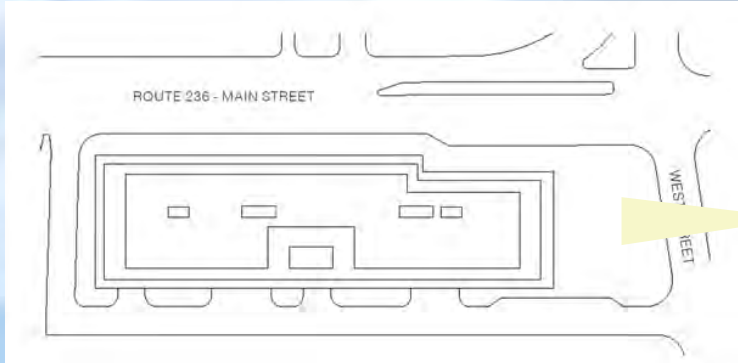
City Centre West View #2



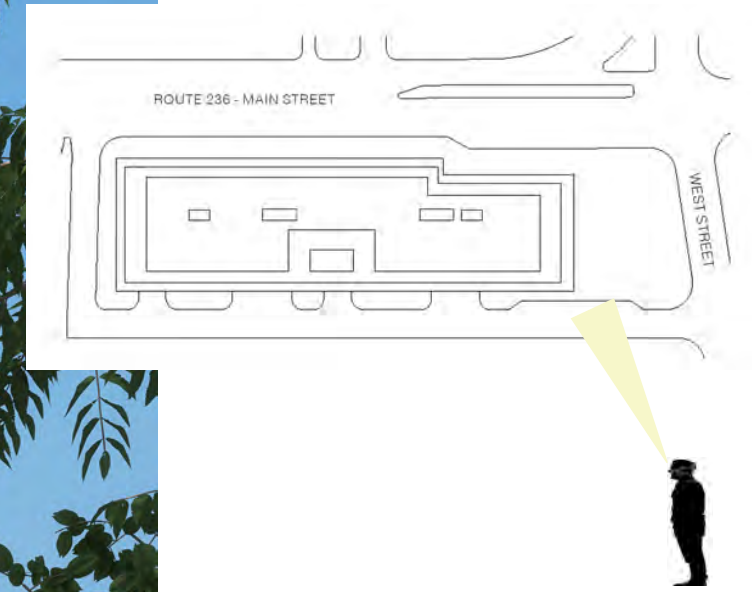
City Centre West View #3



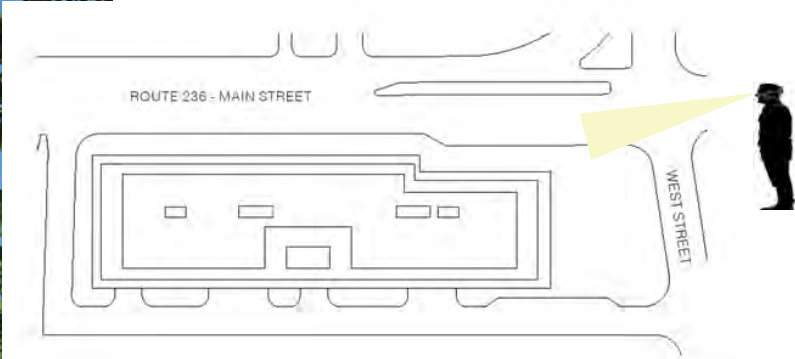
City Centre West View #4



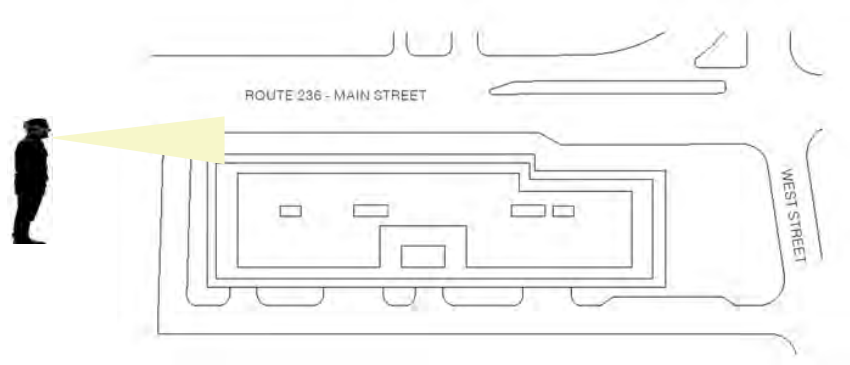
City Centre West View #5



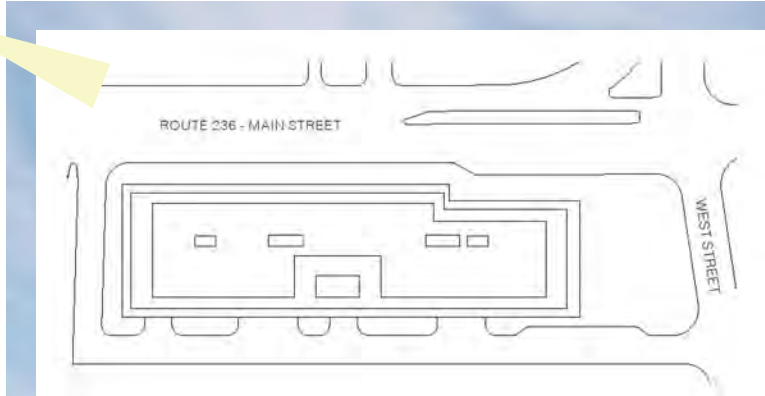
City Centre West View #6



City Centre West View #7

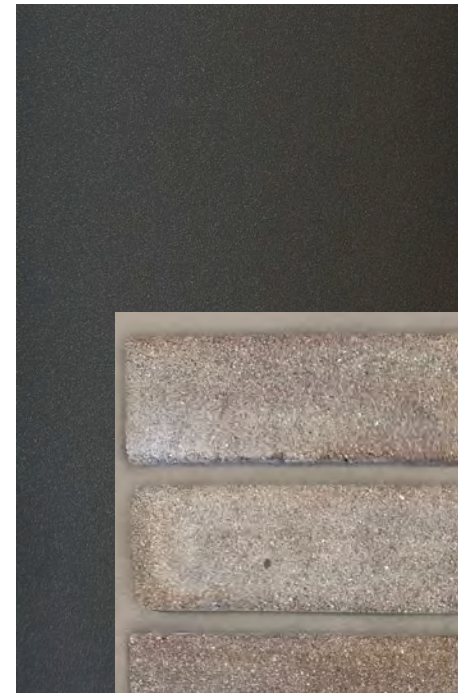


City Centre West View #8



(A5)

(A5) Insulated Glazing Units (IGU)
Guardian Ultraclear low-iron glass
Coating: Guardian SNX 62/27
Refer to architect's sample



(A3) Aluminum Window, Storefront System, Balcony Railings, Overhead Doors, and Metal Trim
Finish: AkzoNobel Interpon Powder Coatings
Color: Metallic Grey (YW284F)

See next page for more information

(A2) Level 1 Facade Linear Brick
MFR: Arriscraft
Product: Calcium Silicate Brick
Series: Architectural Linear Series
Color: Burnt Umber ("Grey" Split Face)



(A1) Level 2-7 Facade Linear Brick
MFR: Arriscraft
Product: Calcium Silicate Brick
Series: Architectural Linear Series
Color: Burnt Umber ("Warm" Weathered Face)

(A4) Mortar Joints
MFR: Sika or approved equivalent
Color: to match Benjamin Moore
Dellwood Sand (1019)
Use type N mortar, Raked Profile

Aluminum Roof Screen
Color: painted Benjamin Moore
Dellwood Sand (1019)



Metal Guardrails at Balconies:
 Custom metal fabrication to match project renderings.
 Basis of design is Vista Railings or equal. (A6)
 Finish: High performance coating
 Color to match AkzoNobel Metallic Grey (YW284F). Refer to Sample.

Glass Guardrails:
 17mm thick, heat-strengthened, laminated glass, with ionoplast (SG) Interlayer.
 Extra-clear low-iron as supplied by Guardian Glass. (A7a)
 Fixed to building structure via an aluminum glazing shoe by CRL. (A7b)

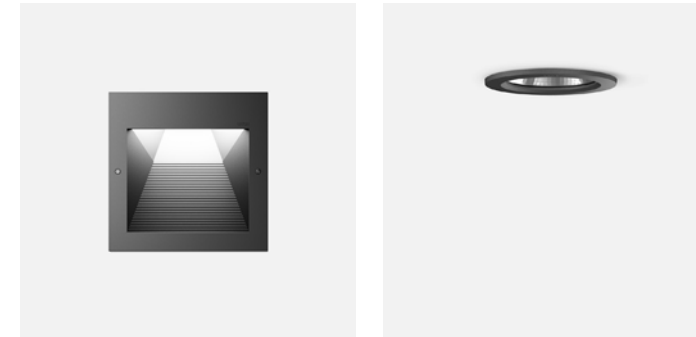
Garage Doors:
 Overhead coiling doors. Formed metal, with high-performance coating.
 Basis-of-Design Manufacturers: Cornell Iron Works, or equal. (A8)
 Finish: color to match AkzoNobel - Metallic Grey (YW284F). Refer to Sample.



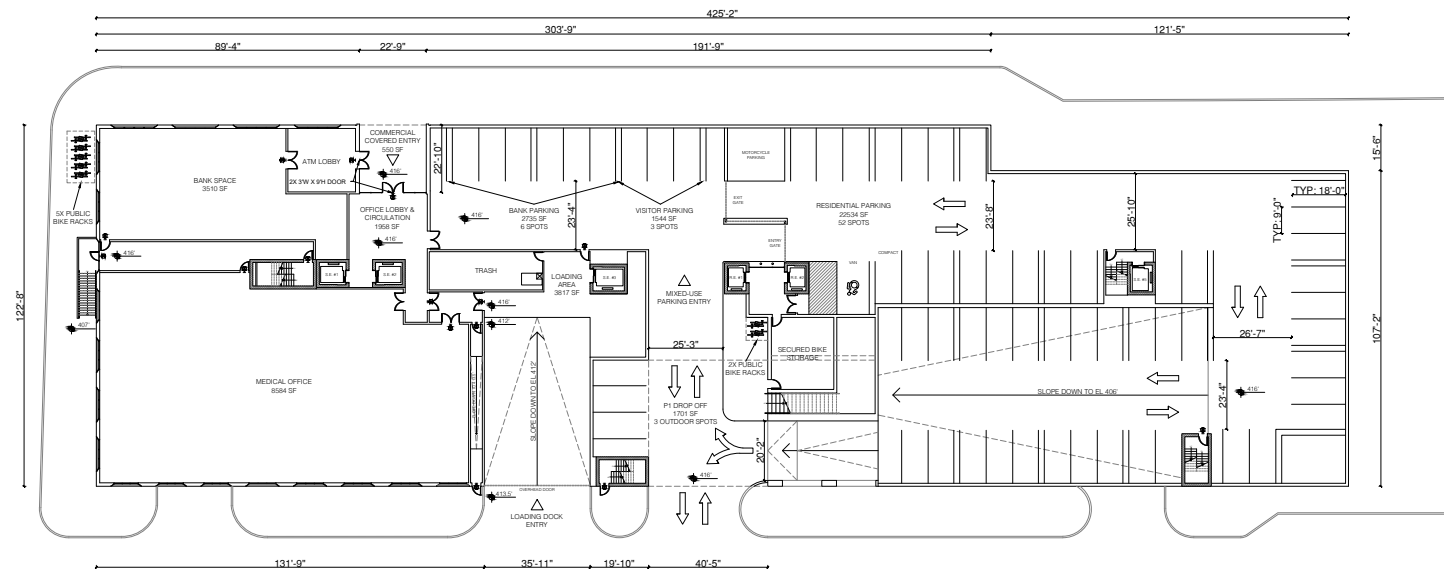
Glazing System:
 Insulated Glazing Units within extruded metal profiles, with high performance coating to match AkzoNobel - Metallic Grey (YW284F).
 Basis of Design product: As manufactured by Schuco, or equal. (A9a)

Exterior Doors at Entrance and Balcony:
 Compatible with adjacent fixed glazing units as shown in the renderings. Detailing and color to match.
 Basis of Design product: As manufactured by Schuco, or equal. (A9b)

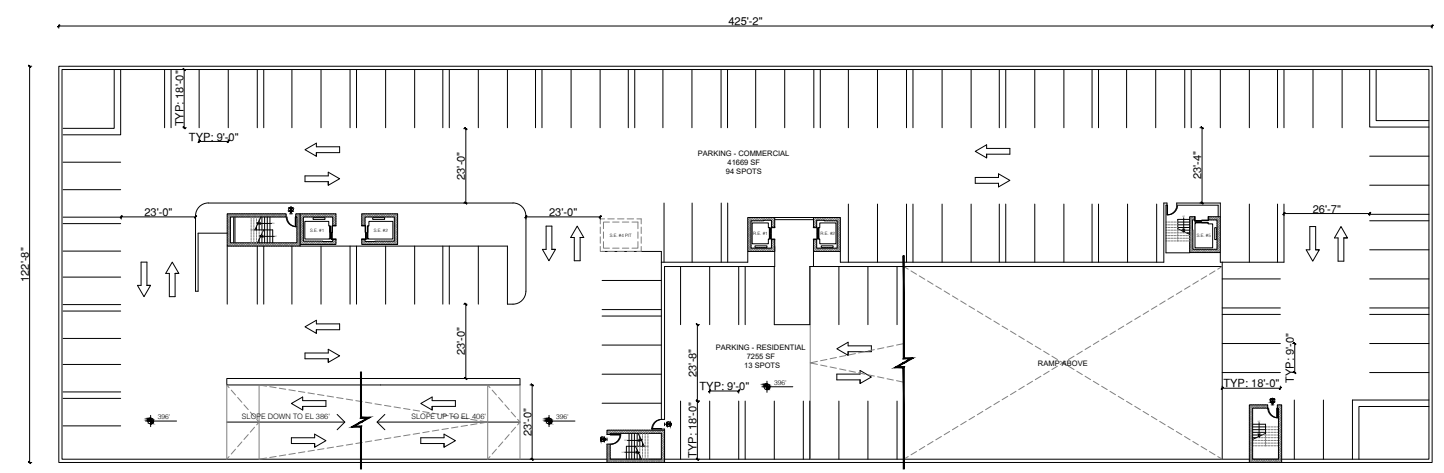
Transoms, metal panels, and trim to match.



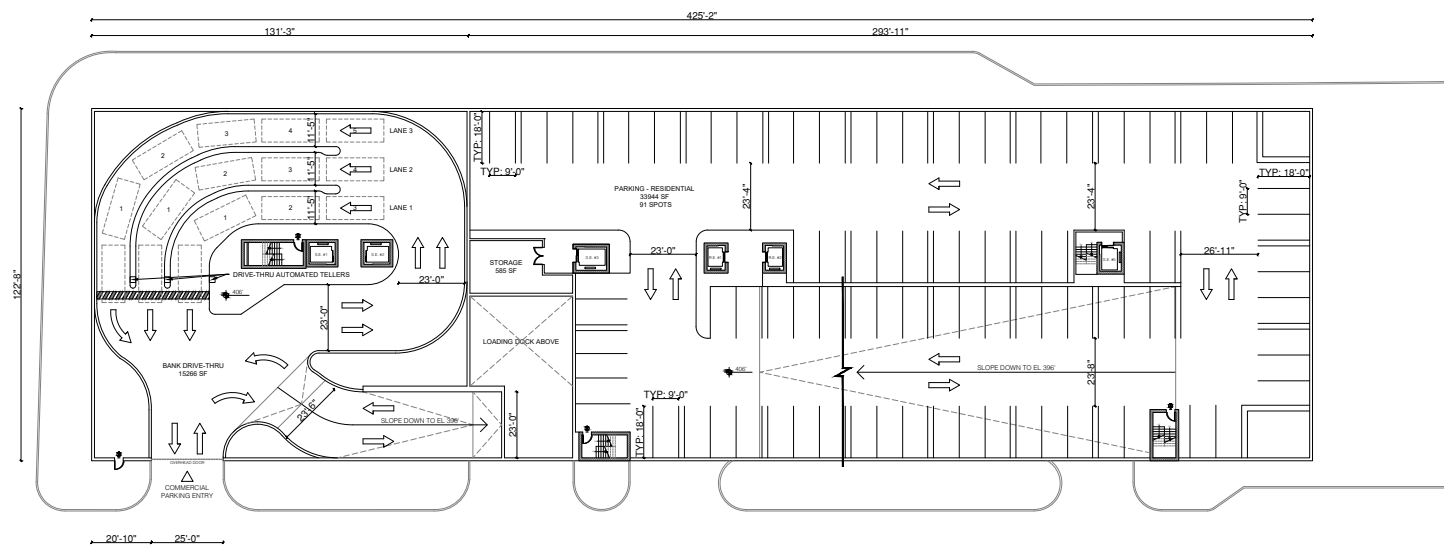
Exterior lighting will be provided to meet building code, security, and comfort requirements, and to ensure nighttime visibility. Color temperature for exterior lighting is 2700K – 3000K.
 Basis of design product manufacturer is Bega or approved equal. <https://www.bega-us.com/categories#exterior>
 Fixtures may include Recessed Wall (A10a) and Downlight (A10b)
 Exterior building lighting will be developed in subsequent design phases in coordination with a qualified lighting designer.



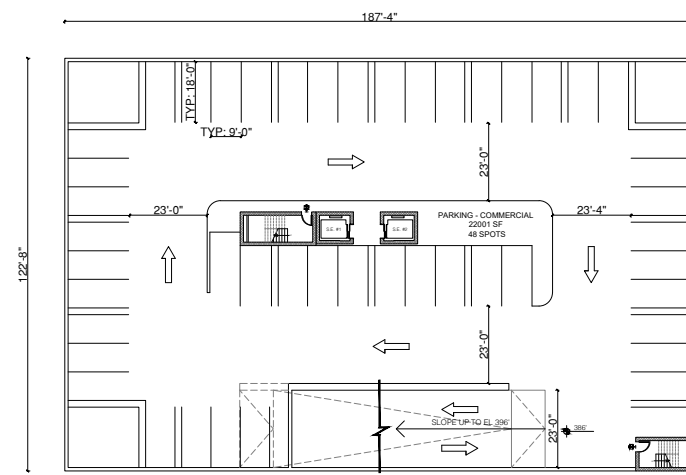
4 P1 PARKING PLAN



2 P3 PARKING PLAN



3 P2 PARKING PLAN



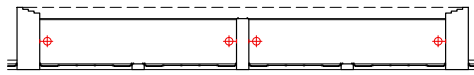
1 P4 PARKING PLAN

TYPE/LEVEL	PARKING COUNT
COMMERCIAL	
P1 (BANK ONLY)	6
P3	94
P4	47
	TOTAL: 147
RESIDENTIAL	
P3	13
P2	91
P1	52
P1 (DROP-OFF)	3
	TOTAL: 159
VISITOR	
P1	3
	TOTAL: 3
OVERALL	309

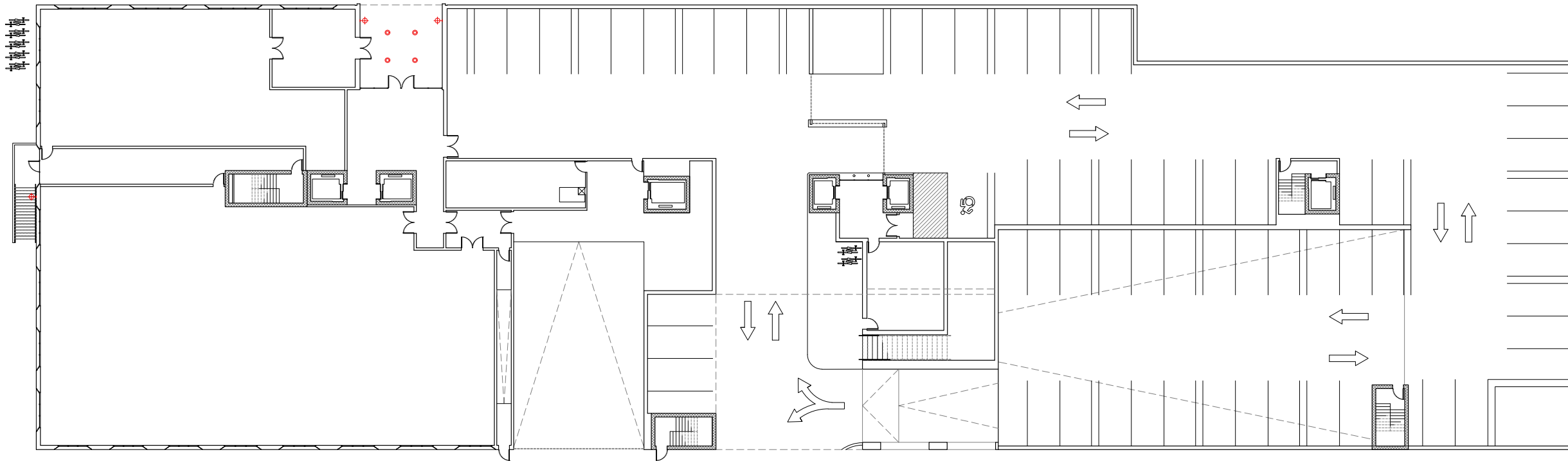
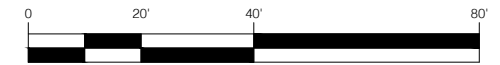


INTERIOR LAYOUTS ARE CONCEPTUAL IN NATURE AND SUBJECT TO REVISION AT THE TIME OF FINAL DESIGN

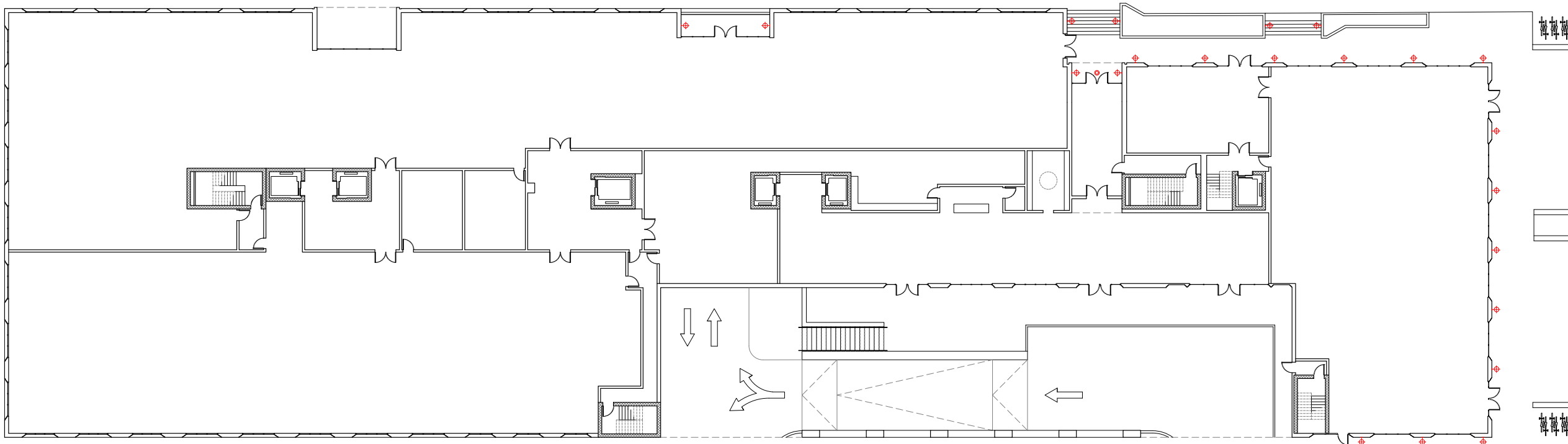
THE COUNTS IN THIS TABLE ONLY REFLECT PARKING SPOTS WITHIN THE FOOTPRINT OF THE BUILDING






3 TYPICAL BALCONY BAY LIGHTING PLAN



2 P1 EXTERIOR LIGHTING PLAN



1 LEVEL 1 EXTERIOR LIGHTING PLAN

- LEGEND
-  RECESSED WALL (A10a)
 - 
 -  DOWNLIGHT (A10b)
 - 



CITY
CENTRE
WEST

AN OX HILL PROPERTY

CERTIFICATE OF APPROPRIATENESS

Material and Fixture Product Information



A1

A2

CALCIUM SILICATE BRICK

Our unique brick story.

Brick. A natural, enduring and beloved building material made using clay all over the world. But Arriscraft brick is different. We make our calcium silicate brick using the same unique process as our Building Stone; we combine sand and lime that bonds naturally into an inherently strong and beautiful product. The result? A high-performance brick with through-body color and a distinct fine grain finish.

Our manufacturing expertise lets us offer a wide range of brick styles, from very long and modern to traditionally sized, tumbled options.

Residences at Pier 4 | SHoP Architects
Architectural Linear Series Opal
Photo: SHoP Architects

Brick

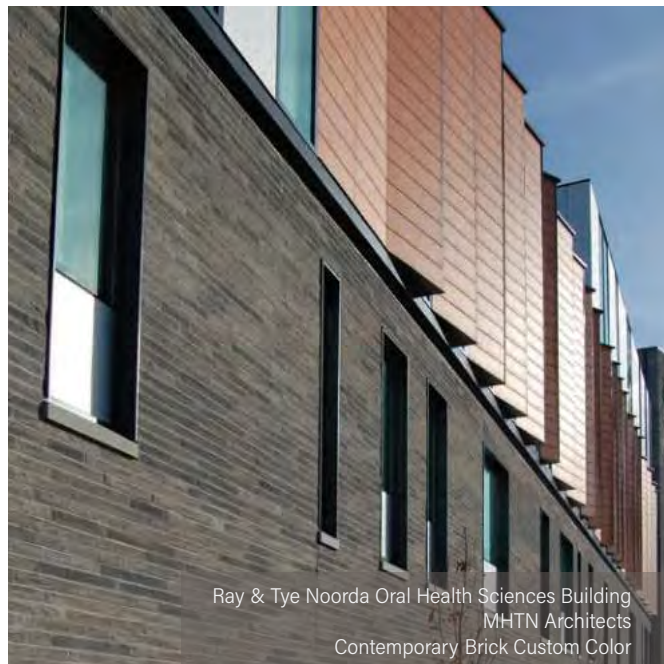




Denizen Bushwick | ODA New York
Architectural Linear Series Brick Charcoal
Photo: ODA Architecture

ARCHITECTURAL LINEAR SERIES BRICK

A distinctive brick with a weathered finish that is quickly making its mark. Explore a range of designer colors, creative installation options and a split face finish option.



Ray & Tye Noorda Oral Health Sciences Building
MHTN Architects
Contemporary Brick Custom Color

CONTEMPORARY BRICK

Create long, modern lines with this gorgeous over-sized brick available in a wide color range from very dark to white. Combine colors for an eye-catching finish.



Tumbled Vintage Brick Mystic Grey
Photo: Langen Studios

TUMBLED VINTAGE BRICK

For an elegant yet charming aesthetic, choose our Tumbled Vintage Brick. Naturally tumbled edges offer extra authenticity to your traditional designs.



Tumbled Georgia Brick Sandy Shore

TUMBLED GEORGIA BRICK

Our newest brick introduction, this standard brick size features our distinct fine grain finish and comes in two trendy colors.



The Chestnut at University City | SITIO architecture + urbanism
Linear Series Obsidian Split & Smooth
Photo: Powelton Digital Media Group



PRODUCT DESCRIPTION

BASIC USE Calcium Silicate Masonry Products used in full-bed masonry veneer construction. For interior and exterior use in residential, commercial and institutional applications.

For thin-clad calcium silicate products, refer to refer to ARRISCRAFT•DATA 04 43 13.16 Thin-Clad Adhered Masonry Veneer Assembly—Thin-Clad Units.

COMPOSITION AND MATERIAL Calcium Silicate Masonry Products describes **Renaissance® Masonry Units, Evolution Masonry Units, Calcium Silicate Building Stone, and Calcium Silicate Brick**. Calcium Silicate Masonry Products are manufactured calcium silicate units containing no Portland cement. They are pressure-formed and autoclave cured, resulting in high-density, severe weathering modular units, with one or more finished faces. Refer to ARRISCRAFT•NOTE – Calcium Silicate Masonry Units for further information. The units may be site cut, trimmed and finished to custom lengths, shapes or sizes, as required on site.

SHAPES AND SIZES Cambridge produced **Renaissance® Masonry Units** are available in a variety of standard shapes and sizes:

Code	Height	Length	Bed
REN358	3-5/8"	23-5/8"	3-5/8"
REN758	7-5/8"	23-5/8"	3-5/8"
REN1158	11-5/8"	23-5/8"	3-5/8"

Renaissance® Masonry Units are also available in custom shapes and sizes, up to a maximum length of 23-5/8" and face rise of 11-5/8". Bed depths are limited to a maximum of 3-5/8" with rocked faced finishes and 4-5/8" with smooth faced finishes. Profiles such as margins, chamfers, notches and bullnoses are available at a premium price. Refer to the Renaissance® Custom Profile Guide for further information or contact your local Arriscraft representative or dealer.

A factory applied coating may be present on the long mortar beds of the units. Consider the need to order finished beds for application where they may be exposed.

Evolution Masonry Units are available in a variety of standard sizes:

Code	Height	Length	Bed
ELN35	3-5/8"	31-5/8"	3-5/8"
ELN75	7-5/8"	31-5/8"	3-5/8"

Evolution Masonry Units are also available in custom shapes and sizes, up to a maximum length of 31-5/8" and face rise of 7-5/8". Bed depths are limited to a maximum of 3-5/8" with smooth faced finishes. Profiles such as margins, chamfers, notches and bullnoses are available at a premium price. Contact your local Arriscraft representative or dealer for further information.

Calcium Silicate Building Stone (Cambridge, Ontario) is available in a variety of standard sizes:

Code	Height	Length	Bed
Citadel® Building Stone		Texture: Tumbled finish	
CIT/FRE23	2-3/8"	Various lengths up to 23-5/8"	3-5/8"
CIT36	3-13/16"	Various lengths up to 23-5/8"	3-5/8"
CIT52	5-1/4"	Various lengths up to 23-5/8"	3-1/2"
CIT81	8-1/8"	Various lengths up to 23-5/8"	3-1/2"
Edge Rock Building Stone		Texture: Split-faced finish	
SHA/UL50	4-15/16"	Various lengths up to 31-5/8"	3-1/4" ± 1/4"
EDG102	10-1/4"	Various lengths up to 23-5/8"	3-1/2" ± 1/2"
Fresco Building Stone		Texture: Split-faced and Tumbled finish	
CIT/FRE23	2-3/8"	Various lengths up to 23-5/8"	3-5/8"
FRE52	5-1/4"	Various lengths up to 23-5/8"	3-1/2"
FRE81	8-1/8"	Various lengths up to 23-5/8"	3-1/2"
Laurier Building Stone		Texture: Rocked finish	
LAU23	2-3/8"	Various lengths up to 23-5/8"	3-3/4"
LAU52	5-1/4"	Various lengths up to 23-5/8"	3-1/2"
LAU81	8-1/8"	Various lengths up to 23-5/8"	3-1/2"
LAU11	11"	Various lengths up to 23-5/8"	3-1/2"
Shadow Stone® Building Stone		Texture: Split-faced finish	
SHA/UL22	2-5/16"	Various lengths up to 23-5/8"	3-5/8" ± 1/4"
SHA/UL50	4-15/16"	Various lengths up to 31-5/8"	3-1/4" ± 1/4"
SHA75S	7-5/8"	Various lengths up to 23-5/8"	3-3/8" ± 1/4"
Urban Ledge Stone		Texture: Split-faced finish	
SHA/UL22	2-5/16"	Various lengths up to 23-5/8"	3-5/8" ± 1/4"
UL35	3-5/8"	Various lengths up to 31-5/8"	3-1/4" ± 1/4"
SHA/UL50	4-15/16"	Various lengths up to 31-5/8"	3-1/4" ± 1/4"

Calcium Silicate Building Stone (Fort Valley, Georgia) is available in a variety of standard sizes:

Code	Height	Length	Bed
Georgia Citadel® Building Stone Texture: Tumbled finish			
GC22	2-1/4"	Various lengths up to 23-5/8"	3-7/8"
GC35	3-5/8"	Various lengths up to 23-5/8"	3-5/8"
GC47	4-7/8"	Various lengths up to 23-5/8"	3-1/2"
GC75	7-5/8"	Various lengths up to 23-5/8"	3-3/4"
Coastal Building Stone Texture: Split or Sawn Finish			
COA21	2-1/8"	Fragmented lengths up to 23-5/8"	2-7/8" ± 1/8"
COA35	3-5/8"	Fragmented lengths up to 23-5/8"	2-7/8" ± 1/8"
COA62	6-1/8"	Fragmented lengths up to 23-5/8"	2-7/8" ± 1/8"
Highfalls LedgeStone Texture: Split-faced Finish			
HFL22	2-1/4"	Various lengths up to 23-5/8"	3-13/16"
HFL47	4-7/8"	Various lengths up to 23-5/8"	3-13/16"
HFL75	7-5/8"	Various lengths up to 23-5/8"	3-13/16"
Matterhorn Building Stone Texture: Split-faced Finish			
MAT50	4-15/16"	Various lengths up to 23-5/8"	3-7/16" ± 1/2"
MAT102	10-1/4"	Various lengths up to 23-5/8"	3-1/2" ± 1/2"
Midtown Building Stone Texture: Split or Sawn Finish			
MID21	2-1/8"	Fragmented lengths up to 23-5/8"	2-7/8" ± 1/8"
MID35	3-5/8"	Fragmented lengths up to 23-5/8"	2-7/8" ± 1/8"
MID57	5-7/8"	Fragmented lengths up to 23-5/8"	2-7/8" ± 1/8"
Old Country Building Stone Texture: Split-faced finish			
OC22	2-1/4"	Various lengths up to 23-5/8"	3-13/16"
OC35	3-5/8"	Various lengths up to 23-5/8"	3-13/16"
OC47	4-7/8"	Various lengths up to 23-5/8"	3-13/16"

Shipped material also includes a percentage of shorter random length units which can be used by the installer in creating the ashlar bond patterns and around openings and at internal corners. Contact your local Arriscraft representative or dealer for additional information.

Calcium Silicate Brick is available in a variety of standard sizes:

Cambridge, Ontario produced Brick

Code	Height	Length	Bed
Contemporary Brick Texture: Split-faced finish			
CON31	3-1/8"	Various lengths up to 30-3/8"	3-1/2"
Tumbled Vintage Brick Texture: Tumbled finish			
TVB31	3-1/8"	10-1/8"	3-1/2"
Architectural Linear Series Brick Texture: Weathered finish			
LS22	2-1/4"	Various lengths up to 23-5/8"	3-3/4"

Fort Valley, Georgia produced Brick

Code	Height	Length	Bed
Tumbled Georgia Brick Texture: Tumbled finish			
TVB31	2-3/4"	7-5/8"	2-5/8"
Architectural Linear Series Brick Texture: Weathered finish			
LS22	2-1/4"	Various lengths up to 23-5/8"	3-3/4"

TOLERANCES Calcium Silicate Masonry Products are fabricated to the following tolerances:

Renaissance® Masonry Units and Evolution Masonry Units:

- Unit Height and Length: +/- 1/16".
- Deviation from square, with the measurement taken using the longest edge as the base: +/- 1/16".
- Unit Bed: +/- 1/8".
- Custom Unit Dimensions: 1/8".

Finished unit heads can be custom ordered or finished on site by the contractor. With Sandblasted finish, about 15% of units randomly placed on skids come with one acceptable head. Units ordered with finished heads will deviate from the standard dimension. Expected deviations when ordering finished heads are as follows:

Finished Heads		
Finish	Number of Finished Heads	Reduction in Unit Length
Sandblasted*	1-2	3/8"—3/4"
Rocked	1-2	3/4"—1-1/2"

*Evolution Masonry Units supplied in Sandblasted finish only.

Due to the nature of these finishing operations, the custom dimensions tolerance of +/- 1/8" will apply.

Calcium Silicate Building Stone and Calcium Silicate Brick:

- Unit Height: +/- 1/16".
- Unit Bed: +/- 1/8".

Split, rocked, or tumbled units, by the nature of their random finish, may have dimensional variations exceeding these values.

Units shall exhibit a texture approximately equal to the approved sample when viewed under diffused daylight illumination at a 20 foot distance. Minor chipping resulting from shipment and delivery shall not be grounds for rejection. Minor chips shall not be obvious under diffused daylight illumination from a 20 foot distance.

Chips found on *unfinished* faces are not grounds for rejection.

Split and rocked faces are inspected for cracks and blemishes only, as chippage considerations do not apply when the desired surface texture and unit shape are intended to be uneven.

LIMITATIONS Manufactured masonry products are generally intended for above grade installations. Manufactured masonry veneer units, regardless of their composition, are inherently absorptive, and as such, are not intended for use below grade. Manufactured units installed below grade will wick moisture from the soil that is in contact with the masonry units and create a condition known as "rising damp" in the masonry veneer.

In colder climates, masonry walls at grade may become exposed to de-icing compounds. As with other types of manufactured masonry units, calcium silicate masonry units should not be installed where they will be directly exposed to de-icing compounds used to melt snow and ice from pavements.

The function of caps and copings is to prevent moisture from entering the building envelope through the top of the wall. As most manufactured masonry units are produced in relatively short lengths, if they are used as a cap or coping material the more mortar joints are required between the individual



units. These mortar joints are the most likely entry point for moisture to infiltrate the building envelope. As such, it is generally recommended within the industry that longer components, such as quarried stone, cast stone, or metal parapet cap flashing be used to reduce the number of joints thereby limiting the areas that may allow moisture infiltration of the building envelope.

COLORS AND PATTERNS Renaissance® Masonry Units are available in the following standard colors:

Cambridge, Ontario standard colors and finishes

Color		Finish	
		Sandblasted	Rocked
Monochromatic Range	Blacksmith	•	•
	Carbon	•	•
	Wheat	•	•
	White	•	•
Striated	Nutmeg	•	•
	Olive	•	•
Range	Barnboard	•	•
	Birchbark	•	•
	Driftwood	•	•
	Ironstone	•	•
	Sandrift	•	•

Fort Valley, Georgia standard colors and finishes

Color		Finish		
		Smooth	Rocked	Satin
Monochromatic	Champagne	•	•	•
	Limestone	•	•	•
	Tan	•	•	•
Monochromatic Range	Café	•	•	•
Striated	Basalt	•	•	•
	Ginger	•	•	•
	Oak Ridge	•	•	•
Striated Range	Magnolia	•	•	•
	Montecito	•	•	•
	Mountain Ridge	•	•	•
	Redrock	•	•	•
	Sunset	•	•	•

Evolution Masonry Units are available from our Cambridge, Ontario manufacturing facility in the following standard colors:

Color		Finish
		Sandblasted
Monochromatic Range	Carbon	•
	Wheat	•
	White	•
Striated	Nutmeg	•

- Monochromatic colors consist of a single hue.
- Monochromatic range colors consist of a single hue with a subtle distribution of tones that vary from unit to unit.
- Striated colors are a multi-hued blend.
- Striated range colors are a multi-hued blend and will contain a distribution of colors or shades that vary from unit to unit.

Calcium Silicate Building Stone (Cambridge, Ontario) is available in the following standard colors:

Product	Colors
Citadel®	Cashmere, Charcoal, Driftwood, French Country, Infinity, Traditional Grey, Willow Breeze
Edge Rock	*Collingwood, Delta, Glacier, *Steel Grey
Fresco	Eclipse, Greige, Moonstone, Silverado, Traditional Grey, Twilight
Laurier	Charcoal, Ivory White, Mahogany, Midnight Grey, Opal, Walnut
Shadow Stone®	Avalanche, Collingwood, Driftwood, Steel Grey, Tacoma
Urban LedgeStone	Avalanche, Collingwood, Driftwood, Steel Grey, Tacoma

*Edge Rock in colors Collingwood and Steel Grey is offered in a SHA/UL50 and EDG102 combination.

Calcium Silicate Building Stone (Fort Valley, Georgia) is available in the following standard colors:

Product	Colors
Georgia Citadel®	Cobble Hill, Indiana Blend, Mocha, Rockport, Savannah, Silver Slate, Weatherwood
Coastal	Amalfi, Baja, Cape Cod, Dark Shore, Monterey, White Cliff
Highfalls LedgeStone	Beech Mountain, Blackrock, Cloudland
Matterhorn	Augusta, Barnwood, Blueridge, Chalet, Cotton Creek, Saddle
Midtown	Abbey Road, Biscayne, Lombard, Manhattan, Newbury, Peachtree
Old Country	Big Horn, Smoky Mountain

Calcium Silicate Brick (Cambridge, Ontario) is available in the following standard colors:

Product	Colors
Contemporary Brick	Blizzard, Ivory White, Mystic Grey, Phoenix, Tofino
Tumbled Vintage Brick	Alpine White, Mystic Grey, Platinum Grey, Silver Mist, Weathered Oak
Architectural Linear Series Brick	Charcoal, Midnight Grey, Obsidian, Opal

Calcium Silicate Brick (Fort Valley, Georgia) is available in the following standard colors:

Product	Colors
Tumbled Georgia Brick	Sandy Shore, Southern Dusk
Architectural Linear Series Brick	Burnt Umber, Cedar Woods, Chateau Brown, Evening Shade, Forged Steel, Harbor Grey, Red Sumac, White Pearl

Refer to actual color samples and panels for final color selection. Colors within each product group may be blended in a wall to achieve a more natural appearance. Information pertaining to common color blends for each product line is available upon request. Not all colors within a product group are available in all sizes. Contact Arriscraft for a detailed listing of colors and sizes available.

Custom colors are also available for all Calcium Silicate Masonry Products on a minimum order basis. Contact your local Arriscraft representative or dealer for additional information.



As a manufactured product, Calcium Silicate Masonry Products are monitored for color consistency. Slight variations between batches may occur, and it is recommended that the installer mix units from different skids during installation.

FINISHES Standard surface finishes for Calcium Silicate Masonry Products include:

- Sandblasted finish: a matte textured, relatively fine-grained uniform smooth surface.
- Rocked finish: a surface finish resulting from mechanical splitting and hand-chiseling of the masonry unit to a set depth to achieve a bold rustic appearance.
- Satin finish: a uniform fine-grained finish similar to Sandblasted.
- Smooth finish: a finish achieved by lightly honing the surface with a mechanical, fine abrasive head in a wide, circular motion.
- Split-faced finish: a surface finish resulting from mechanically splitting a manufactured masonry unit to achieve a rough, stone-like texture. Some split-faced units may have split fronts and backs.
- Tumbled finish: a finish resulting from splitting, and either tumbling or mechanically aging the pieces to create the rusticated look.
- Weathered finish: a rusticated and bruised finish.

Consultants should review samples prior to selecting a particular color and finish.

TECHNICAL DATA

APPLICABLE STANDARDS Required properties for Calcium Silicate Masonry Products are described in ASTM C73, Standard Specification for Calcium Silicate Face Brick (Sand-Lime Brick). This standard classifies calcium silicate products as either moderate-weathering or severe-weathering depending on the material's tested physical properties of compressive strength and 24-hour absorption. Calcium Silicate Masonry Products meet and exceed the requirements necessary to comply with the severe-weathering classification.

INSTALLATION

DELIVERY Calcium Silicate Masonry Products are delivered to the site in protective packaging.

HANDLING Lift skids with proper and sufficiently long slings or forks with protection to prevent damage to units. Protect edges and corners. Depending on weather conditions (lots of rain, humid weather), we suggest removing the plastic stretch wrap from the skids to allow air to flow around the product. If this is done, the unwrapped skid will be less stable and subsequent handling of the skid of units must be done with great care.

STORAGE Upon delivery, isolate masonry units from contact with the ground, vegetation and other material to prevent staining. Stack the masonry units on timbers or platforms at least 3" above ground. Place polyethylene or other plastic film between wood and other finished surfaces of unpackaged units when stored for an extended period of time. Cover stored material with a tarp if it will be exposed to weather for an extended period of time.

Do not use salt to thaw ice formed on the surfaces of units.

PREPARATORY WORK It may be advantageous under hot, dry weather or windy conditions to pre-dampen the units prior to placement in the wall. Damp units should be surface dry at the time of placement.

When constructing masonry in hot or cold weather refer to the

ARRISCRAFT•TECH bulletins titled Hot Weather Masonry Construction and Cold Weather Masonry Construction.

INSTALLATION Calcium Silicate Masonry Products must be installed using approved materials and techniques for each specific installation. Refer to the ARRISCRAFT•CADD Library for applicable details.

Construct masonry veneer with an adequate number of elastic movement joints, properly located to accommodate differential movement. Refer to ARRISCRAFT•NOTE – Building Movement Joints for further information. Construct masonry veneer in accordance with TMS 402, Building Code Requirements for Masonry Structures, and any local requirements stipulated by the authorities having jurisdiction.

Mortar joints between units in any direction should be 3/8" thick, with the exception of Citadel® Building Stone, Fresco Building Stone, Laurier Building Stone, and Georgia Citadel® Building Stone which utilize a 1/2" thick mortar joint. Mortar for calcium silicate masonry units should be a Type N Portland cement-lime mix, proportioned to a 1:1:6 ratio. This ratio refers to:

- 1 part Portland cement (ASTM C150, Type I).
- 1 part hydrated lime (ASTM C207, Type S - Special).
- 6 parts masonry sand (ASTM C144).

When properly combined with the appropriate quantity of water, it will produce a general-purpose mortar, exhibiting good workability and board life in its plastic state, and good durability and flexibility in its hardened state; and conforming to ASTM C270, Standard Specification for Mortar for Unit Masonry. For further information, refer to ARRISCRAFT•NOTE – Mortar for Masonry Veneer.

Arriscraft recommends constructing masonry veneer with proper drainage mechanisms, including clear draining air spaces, through wall flashing membranes and weep hole vents. The air spaces must be at least 1" wide, and kept clear of debris, protrusions, mortar fins and droppings. Weep hole vents should be installed at the same level as through wall flashing membranes and spaced not more than 24" on center horizontally. Refer to ARRISCRAFT•NOTE – Moisture Management for further information.

Calcium Silicate Masonry Products must be connected to a structural substrate with an approved masonry connection system, designed by the consultant for each specific installation. Refer to ARRISCRAFT•NOTE – Connectors – Part I, Masonry Ties.



BOND PATTERNS Calcium Silicate Building Stone are each installed using different bonding patterns. These are typically described as a percentage ratio, from the smallest to the largest units, as follows:

Product	2-Unit	3-Unit	4-Unit
Citadel®		20:40:40	20:20:40:20
Citadel® (no CIT36)		25:50:25	
Edge Rock	75:25		
Fresco		25:50:25	
Laurier		20:50:30	10:40:30:20
Shadow Stone®	60:40	20:50:30	
Urban LedgeStone (Ashlar)		20:50:30	
Georgia Citadel®		25:50:25	20:20:40:20
Coastal		30:55:15	
Highfalls LedgeStone		25:50:25	
Matterhorn	75:25		
Old Country		40:40:20	

If Urban LedgeStone, or Midtown using all three sizes, are installed in a coursed bond pattern, the ratio is 22:33:45.

Refer to Arriscraft's Mason's Instructions sheets for illustrations of each recommended bond pattern.

Standard bond patterns may also be modified by changing the ratio of small to large units. Contact your local Arriscraft representative or dealer for specific information on custom bond patterns.

AVAILABILITY AND COST

AVAILABILITY Calcium Silicate Masonry Products are available worldwide. Delivery times for orders will vary based on the complexity of what is required. Arriscraft cannot be responsible for delays due to fire, acts of God, or any other cause beyond its control or which could not be reasonably foreseen. Contact Arriscraft for a list of dealers in your area.

COST Quoted on a project basis for job-specific manufacturing to project requirements.

WARRANTY

Arriscraft warrants its products against deterioration for the life of the building, provided the products have been erected and used according to accepted masonry standards, within the guidelines of local building codes and as recommended by the manufacturer.

Complete warranty information is outlined on the Arriscraft standard form of Product Warranty.

MAINTENANCE

Although masonry is largely considered to be maintenance-free relative to other building materials, proper post-construction maintenance and care is crucial for creating long lasting and aesthetically pleasing masonry buildings. Some of the more common maintenance items are addressed in the Arriscraft Care, Cleaning, and Maintenance document, such as cleaning, repointing mortar joints, replacing silicone joints, scuff or chippage repairs, wall protection, cutting material, water repellents, and sealers.

Clean Calcium Silicate Masonry Products in accordance with the cleaning guidelines in the Care, Cleaning, and Maintenance document. Various proprietary masonry cleaning detergents and acid-based cleaning systems

may alter the color of Calcium Silicate Masonry Products. Always pre-test cleaning agents and methods on the job-site mock-up panel or a small, inconspicuous area of the wall. The Consultant and/or Owner should approve the test area prior to the start of full-scale cleaning operations.

Arriscraft does not recommend the application of water repellent or graffiti-proofing sealers to Calcium Silicate Masonry Products in exterior applications; however, they may be used for interior applications. For more information refer to the Care, Cleaning, and Maintenance document.

TECHNICAL SERVICES

Arriscraft offers consultation services to assist with the preparation of details, specifications and with pricing. Enquiries are addressed promptly and without obligation.

Arriscraft distributes an integrated technical information system including:

- ARRISCRAFT•CADD: sample details which are available in .dwg, .dxf, and .pdf formats.
- ARRISCRAFT•DATA: product data sheets.
- ARRISCRAFT•NOTE: technical discussions with respect to building construction issues
- ARRISCRAFT•SPEC: master guide specification sections.

All of these technical resources are available to be downloaded from the Arriscraft web site at www.arriscraft.com.

Arriscraft also makes available samples for color and finish, coursing charts and copies of test reports upon request.



Product Data Sheet

AkzoNobel Powder Coatings

Interpon D2525 Matt

Product Description

Interpon D2525 Matt is a series of ultra-durable powder coatings specifically formulated without TGIC, intended for use on architectural aluminium and galvanized steel. Providing new levels of weathering resistance **Interpon D2525 Matt** surpasses the performance of leading architectural powders. It offers significantly higher gloss retention and resistance to colour change combined with maximum film integrity to ensure long term cosmetic and functional protection.

These powder coatings are classified in Family I – class 6c under standard NFT 36-005.

Interpon D2525 Matt meets the requirements of GSB Master, Qualicoat Class 2, EN 12206 (formerly BS6496), EN13438 (formerly BS6497:1984) and AAMA 2604.

Some colours may not be available in **Interpon D2525 Matt**.

Following RAL shades are excluded from the RAL families for Qualicoat class 2: Ral 1003, 1028, 1033, 2004, 2011, 3015, 3017, 3018, 4001.

Qualicoat Licence number: P-1210 (France), P-1212 (Italy), P-1201 (UK), P-1512 (Turkey), P-1673 (Czech Republic), P-1244 (Egypt), P-1844(Russia)

GSB Licence number: 183b (gloss 25)

Powder Properties

Chemical type	Polyester
Appearance	Smooth Matt
Gloss level	20 - 30 gloss units
Particle Size	Suitable for electrostatic spray
Specific gravity	1.2-1.9 g/cm ³ depending on colour.
Storage	Dry, cool conditions (open boxes must be resealed)
Shelf life	24 months below 30°C peak temperature 12 months below 35°C peak temperature
Curing schedule (at object temperature)	15-35 minutes at 180°C 12-25 minutes at 190°C 10-20 minutes at 200°C

Powder on Powder application:

1st phase: Melting and partial curing of the base coat suggested 110-120°C for 15-20 min. (object temp) otherwise refer to the instruction of the spraying equipment supplier

2nd phase: Application of the wood decorative powder according to the instruction of the spraying equipment supplier

3rd phase: Complete curing of the full package for 10-20 minutes at 200°C (object temperature)

Mechanical Tests	Flexibility	ISO 1519 (cylindrical Mandrel)	Pass Qualicoat class 2 requirements	
	Adhesion	ISO 2409 (2mm Crosshatch)	Pass Gt0	
	Erichsen cupping	ISO1520	Pass Qualicoat class 2 requirements	
	Impact resistance	ISO 6272-2	Pass Qualicoat class 2 requirements	
	Hardness	ISO 2815	> 80	
	Mar Resistance Martindale Test (for X-Pro series)	CEN/TS 16611:2016	80 runs(5 cycles) Gloss Retention: 50-75% (depending on color)	
	Environmental and Durability Tests	Acetic Acid Salt Spray	ISO 9227	<16 mm ² corrosion/10cm (1000 hrs)
Constant Humidity		ISO 6270-2	No blistering, creep <1mm (1000 hrs)	
Sulphur Dioxide		ISO22479	Pass 24 cycles– no blistering, loss of gloss or discoloration	
Permeability		Pressure Cooker EN12206-1 Par. 5.10	Pass 1 hour, no blistering	
Chemical Resistance			Generally good resistance to acid, alkalis and oils at normal temperatures.	
Mortar Resistance		EN12206-1	No effect after 24 hours	
Accelerated Weathering		ISO16474-2 (1000 hrs) ISO11507 QUV B 313 (600 hrs)	≥90% Gloss retention ≥50% Gloss retention	
Exterior Durability		ISO 2810	Meets qualicoat class 2 requirements after 3 years Florida Meets AAMA 2604 requirements after 5 years Florida	
Test Conditions		Testing has been determined under laboratory conditions using the following application properties and is for guidance only.		
		Substrate	Aluminum (0.5-0.8 mm Al Mg1)	
	Pretreatment	Chrome free Qualicoat/GSB approved pretreatment		
	Film thickness	60-80 microns (ISO 2360)		
	Cure schedule	10 minutes at 200° C (object temperature)		
	Actual film performance will depend on the individual circumstances in which the product is used.			

Pre-treatment

For maximum protection it is essential to pretreat components prior to the application of **Interpon D2525 Matt**.

Aluminium components should receive a full multi-stage chromate conversion coating or suitable chrome-free pre-treatment or suitable pre-anodising to clean and condition the substrate. Detailed advice should be sought from the pre-treatment supplier.

Interpon D2525 Matt products may also be used on cast or mild steel. For outdoor use **Interpon Redox PZ** anti-corrosive primer over a correctly prepared substrate is recommended

Application

Interpon D2525 Matt powders can be applied by manual or automatic electrostatic spray equipment. For solid shades, unused powder can be reclaimed up to a maximum of 30% using suitable equipment and recycled through the system. Please consult AkzoNobel for further details as to the correct mixing ratio for virgin/reclaim powder.

Interpon D2525 Matt powders should be applied at minimum 60µm.

All powders can show small color differences from batch to batch, this is normal and unavoidable. While AkzoNobel take every precaution to minimize visible differences, this cannot be guaranteed. Applicators and fabricators are advised to use a single batch for parts that will be assembled together. Differences are more likely with special effect powders.

Bonded products have better application properties than blended products (more stable) but attention should still be paid to line settings in order to avoid “marble effect” and changes in aspect after recycling. A constant ratio between virgin and recycled powders should be fixed by the coater in order to achieve a consistent effect. For more information, it is suggested to read the *Metallic Applications Guidelines*.

Products with different codes should not be mixed even if same colour and gloss.

Post Application

For specific advice on the suitability of post coating processes such as bending or the use of sealants, adhesives, thermal break, cleaning etc. Please consult AkzoNobel.

Maintenance

For specific advice on Cleaning and Maintenance, please consult the *Interpon D series Cleaning and Maintenance Guidelines* available from AkzoNobel.

Safety Precautions

Text as per local regulations

Disclaimer

IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product.

Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel

<http://www.interpon.com/contact-us/>

PRODUCT DATA SHEET

SikaSet® Mortar

Rapid-setting, portland-cement-based patching compound

PRODUCT DESCRIPTION

SikaSet® Mortar is a rapid-setting, portland-cement-based patching compound.

USES

- When mixed with water it can be used to patch concrete, brick, and stucco
- Excellent for basements, sumps, elevator pits, pools, tunnels, and sewers
- Vertical and horizontal surfaces
- Interior and exterior applications

CHARACTERISTICS / ADVANTAGES

- Use on dry, damp, or wet surfaces.
- Extended workability for tooling.
- Non-toxic, non-corrosive, non-rusting.
- Excellent resistance to freeze/thaw cycling.
- Rapid strength gain.

PRODUCT INFORMATION

Packaging	5 gal (50 lb = 22.6 kg) pail
Appearance / Color	Gray powder
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging
Storage Conditions	Store dry at 40–95 °F (4–35 °C) Protect from moisture. If damp, discard material

TECHNICAL INFORMATION

Compressive Strength	1 day	2,600 psi (18.0 MPa)	(ASTM C-109) 73 °F (23 °C) 50 % R.H.
	7 days	6,600 psi (45.5 MPa)	
Tensile Strength	7 days	400 psi (2.8 MPa)	(ASTM C-496) 73 °F (23 °C) 50 % R.H.
	28 days	700 psi (4.8 MPa)	

APPLICATION INFORMATION

Coverage	725 in ³ (70 mL) per bag (Coverage figures do not include allowance for surface profile and porosity or material waste)
Product Temperature	65–75 °F (18–24 °C)
Ambient Air Temperature	> 40 °F (4 °C)
Substrate Temperature	> 40 °F (4 °C)
Final Set Time	15 min (ASTM C-266)

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

- Chip away soft, deteriorated, unsound substrate.
- Clean cavity completely. Lightly dampen the substrate just prior to application.

PRIMING

- **Reinforcing steel:** Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel use Sika® Armatec® 110 EpoCem (consult PDS).
- **Concrete Substrate:** Prime the prepared substrate with a brush or sprayed applied coat of Sika® Armatec® 110 EpoCem (consult PDS). Alternately, a scrub coat of SikaSet® Mortar can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.

MIXING

- Mix with clean water to obtain desired consistency.
- Do not over-mix.
- Do not over-wet.
- Do not re-temper.

APPLICATION

- Trowel into place.
- Knead into honeycombs with rubber-gloved hand.

LIMITATIONS

- Use only potable water for mixing.
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

0 g/l (EPA method 24)

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety

Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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Product Data Sheet

SikaSet® Mortar
August 2018, Version 01.01
020302040030000010

SikaSetMortar-en-US-(08-2018)-1-1.pdf



SunGuard® Advanced Architectural Glass

Our comprehensive range of coatings, colors and design solutions allows architects to explore fully the aesthetic and functional possibilities of light while helping to meet complex energy and performance requirements. Drawing on the cumulative expertise of coating experts and production teams throughout the world, Guardian continually applies science and cutting-edge technology to the development of new SunGuard products that expand the limits of aesthetics and performance.

• **SNX 62/27**
• SNX 51/23

• SNE 50/25
• SNR 50

• SNR 43
• SNR 35

• SN 68
• SN 54

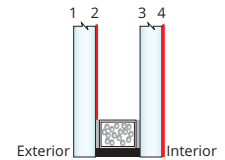
• Neutral 78/65
• IS 20

Demanding Performance

Whether your commercial glass project is located in a hot, sunny climate, a cold climate or somewhere in-between, Guardian Glass has a product to help meet the environmental demands. From spectrally-selective coatings with high visible light transmission to varying levels of reflectivity, SunGuard Advanced Architectural Glass delivers maximum energy savings that help meet or exceed energy code requirements.

Specifications and Resources

Design professionals in search of [3-part specifications](#), [BIM objects](#) and other design tools like our award-winning [Glass Analytics](#) can find resources on our web site. For direct help, call 1-886-482-7374.



SunGuard – Insulating Glass Data with IS 20(#4)

Product	Substrate Outboard-Inboard	Appearance	Visible Light			UV Transmittance %	SHGC	U-Value	Light to Solar Gain	SHGC	U-Value	Light to Solar Gain	
			Transmittance %	Reflectance Out %	In %								Color Rendering Index
Coating #2 surface with IS 20 #4 surface													
SNX 62/27	Guardian UltraClear® Clear-Clear	Ultra Clear Clear	62	12	13	94.9	8	0.26	0.20	2.43	0.26	0.23	2.41
			60	12	13	92.9	6	0.25	0.20	2.37	0.26	0.23	2.33
SNX 51/23	Guardian UltraClear Clear-Clear	Neutral Blue	51	14	15	94.2	12	0.22	0.20	1.34	0.22	0.23	2.30
		Neutral Blue	49	14	14	91.9	10	0.22	0.20	2.27	0.22	0.23	2.22
SNE 50/25	Guardian UltraClear Clear-Clear	Blue-Silver	48	19	18	91.3	21	0.24	0.20	1.99	0.25	0.23	1.97
		Blue-Silver	47	19	18	88.9	16	0.24	0.20	1.96	0.24	0.23	1.93
SN 68	Guardian UltraClear Clear-Clear	Ultra Clear	69	12	13	97.8	37	0.38	0.20	1.81	0.38	0.24	1.80
		Clear	66	12	13	95.4	29	0.36	0.20	1.83	0.36	0.24	1.82
SN 54	Guardian UltraClear Clear-Clear	Ultra Clear	55	15	21	97.6	20	0.28	0.20	1.98	0.28	0.24	1.96
		Clear	53	15	20	96.2	15	0.27	0.20	1.96	0.27	0.24	1.93
SNR 50	Guardian UltraClear Clear-Clear	Light Silver	48	27	17	93.8	24	0.24	0.20	1.99	0.25	0.24	1.97
		Light Silver	47	26	17	91.3	18	0.24	0.20	1.97	0.24	0.24	1.94
SNR 43	Guardian UltraClear Clear-Clear	Light Silver	43	29	15	93.5	22	0.22	0.20	1.99	0.22	0.23	1.97
		Light Silver	42	28	15	91.1	17	0.21	0.20	1.96	0.22	0.23	1.92
SNR 35	Guardian UltraClear Clear-Clear	Light Silver	33	36	20	92.1	14	0.16	0.20	2.10	0.16	0.24	2.06
		Light Silver	32	35	19	89.7	11	0.16	0.20	2.02	0.16	0.24	1.97

Please see table notes on following page.

www.guardianglass.com

Phone: 1.866.482.7374

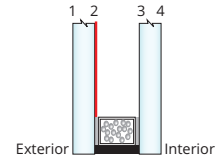
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v.1.25.2022-sum

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 **GUARDIAN®
GLASS**
See what's possible™

The products in this publication are sold subject to Guardian's standard terms and conditions of sale and any applicable written warranties. It is the responsibility of the purchaser to confirm that the products are suitable for their intended application in compliance with the applicable laws and regulations. Please contact your local Guardian representative to obtain any applicable handling and fabrication guides and for the most current product information.

Guardian SunGuard® – Insulating Glass Data



Product	Substrate Outboard-Inboard	Appearance	Visible Light				UV Transmittance %	SHGC	U-Value	Light to Solar Gain	SHGC	U-Value	Light to Solar Gain
			Transmittance %	Reflectance		Color Rendering Index							
Coating #2 surface – except Neutral 78/65 on #3 surface													
Argon													
Air													
SNX 62/27	Guardian UltraClear®	Ultra Clear	64	11	13	95.0	8	0.26	0.24	2.44	0.27	0.29	2.40
	Clear-Clear	Clear	62	11	12	93.0	6	0.26	0.24	2.36	0.27	0.29	2.31
	Green-Clear	Green	52	9	12	85.1	3	0.23	0.24	2.25	0.24	0.29	2.13
	CrystalGray-Clear	Light Gray	44	8	11	89.8	3	0.21	0.24	2.08	0.22	0.29	1.98
	Gray-Clear	Gray	31	6	11	90.7	3	0.17	0.24	1.83	0.18	0.29	1.71
SNX 51/23	CrystalBlue-Clear	Blue	40	7	11	88.8	4	0.20	0.24	2.01	0.21	0.29	1.91
	Guardian UltraClear	Neutral Blue	53	14	14	94.2	13	0.23	0.24	2.34	0.23	0.29	2.27
	Clear-Clear	Neutral Blue	51	14	14	91.9	10	0.23	0.24	2.26	0.23	0.29	2.18
	Green-Clear	Blue-Green	43	11	13	84.1	5	0.20	0.24	2.12	0.21	0.29	1.99
	CrystalGray-Clear	Light Gray	36	9	13	88.8	6	0.18	0.24	1.96	0.20	0.29	1.85
SNE 50/25	Gray-Clear	Gray	26	7	13	89.8	5	0.15	0.24	1.70	0.16	0.29	1.57
	CrystalBlue-Clear	Blue	33	8	13	87.7	7	0.17	0.24	1.88	0.19	0.29	1.77
	Guardian UltraClear	Blue-Silver	50	19	18	91.4	22	0.25	0.24	1.99	0.25	0.29	1.96
	Clear-Clear	Blue-Silver	48	19	18	88.9	17	0.25	0.24	1.95	0.25	0.29	1.90
SN 68	CrystalGray-Clear	Blue-Gray	34	12	17	86.0	9	0.20	0.24	1.71	0.21	0.29	1.62
	CrystalBlue-Clear	Light Blue	31	11	17	84.7	10	0.19	0.24	1.61	0.20	0.29	1.53
	Guardian UltraClear	Ultra Clear	71	11	13	97.9	40	0.39	.245	1.82	0.39	0.29	1.80
	Clear-Clear	Clear	68	11	12	95.4	30	0.37	.245	1.82	0.38	0.29	1.80
	Green-Clear	Green	57	9	12	86.9	13	0.29	.245	1.99	0.30	0.29	1.92
SN 54	CrystalGray-Clear	Light Gray	48	8	11	92.1	17	0.29	.245	1.69	0.30	0.29	1.64
	Gray-Clear	Gray	34	6	11	93.2	14	0.24	.245	1.43	0.25	0.29	1.37
	CrystalBlue-Clear	Blue	44	7	11	91.1	19	0.28	.245	1.56	0.29	0.29	1.51
	Guardian UltraClear	Ultra Clear	56	15	21	97.6	21	0.28	0.24	1.98	0.29	0.29	1.95
	Clear-Clear	Clear	54	14	20	96.3	16	0.28	0.24	1.95	0.28	0.29	1.91
SNR 50	Green-Clear	Green	46	11	19	88.2	7	0.23	0.24	1.99	0.24	0.29	1.89
	CrystalGray-Clear	Light Gray	39	9	19	93.5	9	0.22	0.24	1.75	0.23	0.29	1.67
	Gray-Clear	Gray	27	7	19	94.3	7	0.18	0.24	1.49	0.20	0.29	1.40
	CrystalBlue-Clear	Blue	35	9	19	92.6	10	0.21	0.24	1.64	0.22	0.29	1.57
SNR 43	Guardian UltraClear	Light Silver	50	27	17	93.8	25	0.25	0.24	2.00	0.25	0.29	1.96
	Clear-Clear	Light Silver	48	26	17	91.3	19	0.25	0.24	1.96	0.25	0.29	1.91
	CrystalGray-Clear	Silver Gray	34	15	16	88.2	10	0.20	0.24	1.71	0.21	0.29	1.63
	CrystalBlue-Clear	Silver Blue	31	14	16	86.9	12	0.19	0.24	1.61	0.20	0.29	1.53
SNR 35	Guardian UltraClear	Light Silver	45	28	14	93.5	24	0.22	0.24	1.99	0.23	0.29	1.96
	Clear-Clear	Light Silver	43	28	14	91.1	17	0.22	0.24	1.94	0.23	0.29	1.89
	Green-Clear	Green	36	21	14	83.0	8	0.19	0.24	1.89	0.20	0.29	1.78
	CrystalGray-Clear	Silver Gray	31	16	14	87.9	9	0.18	0.24	1.68	0.19	0.29	1.59
	Gray-Clear	Silver Gray	22	11	13	89.2	8	0.15	0.24	1.41	0.17	0.29	1.31
NU 78/65(#3)	CrystalBlue-Clear	Silver Blue	28	14	13	86.7	11	0.18	0.24	1.58	0.19	0.29	1.50
	Guardian UltraClear	Light Silver	34	36	20	92.1	15	0.16	0.24	2.09	0.17	0.29	2.03
	Clear-Clear	Light Silver	33	35	19	89.8	11	0.17	0.24	2.00	0.17	0.29	1.92
	Green-Clear	Green	28	26	19	81.9	10	0.15	0.24	1.80	0.17	0.28	1.67
NU 78/65(#3)	CrystalGray-Clear	Silver Gray	23	20	19	86.7	6	0.14	0.24	1.63	0.15	0.29	1.51
	CrystalBlue-Clear	Silver Blue	21	17	19	85.7	7	0.14	0.24	1.55	0.15	0.29	1.44
NU 78/65(#3)	Guardian UltraClear	Ultra Clear	81	13	13	99.5	54	0.73	0.27	1.12	0.72	0.31	1.12
	Clear-Clear	Clear	78	13	13	96.9	39	0.66	0.27	1.18	0.66	0.31	1.18

- All insulating glass configurations are 6 mm/12.7 mm spacer/6 mm:
 - Configurations with Guardian UltraClear® low-iron glass contain Guardian UltraClear outboard & inboard.
 - All other insulating glass configurations contain substrates as indicated.
- The performance values shown are nominal and subject to variations due to manufacturing tolerances.
- Guardian performance data are calculated for center-of-glass only in accordance with LBNL Window 7 program.
- SNR 35, SNR 43, SNR 50 and IS 20 require heat-treatment.
- U-value calculated is winter nighttime.
- A slight shift in visible light reflectance or transmission may be noticed after heat-treatment.
- Guardian reserves the right to change product performance characteristics without notice or obligation.



**GUARDIAN®
GLASS**

See what's possible™



**GUARDIAN®
GLASS**

See what's possible™

SunGuard® eXtraSelective

SNX 62/27

More natural light, less heat gain, greater energy savings

Let natural light do what it does best with SunGuard SNX 62/27 coated glass. SNX 62/27 coated glass product offers the highest light-to-solar-gain ratio of all SunGuard coated glass. This triple silver coating is an excellent option for daylighting—making it easy to create more inviting spaces, increase occupant comfort and help achieve LEED® credits. Its neutral/green appearance stays true to your design vision while helping to gain the energy-saving performance you desire.



Product Information

Substrate	/	/	/
Base Glass/Thickness	/	/	/
Applications	Windows / Skylights / Facades / Curtain walls / Doors		
Manufacturing options	Heat Strengthened / Heat Soaked / Annealed / Tempered / Bent		
Recommended Coating Positions	Double glazed: #2 or #3 surface (restrictions apply) Triple Glazed: #2 surface		
Maximum Size	130"x240"		
Edge Deletion	Yes		
Glass type	Low E		
Glass functions	U-Value Benefit		
Fabrication options	Must be used in an Insulating Glass Units		
Appearance	Clear		



**GUARDIAN[®]
GLASS**

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Double Glazed

Transmittance Visible (τ_v %)	Visible Light		General Color Rendering Index (Ra)	Ultraviolet Trans UV(τ_{uv} %)	Solar Energy			Thermal Properties			Light to Solar Gain (LSG)		
	Reflectance pv % out	pv % in			Transmittance Solar (τ_e %)	Reflectance pe % out	pe % in	Absorptance Solar (ae %)	Solar Heat Gain Coefficient (SHGC)	Shading Coefficient (sc)		Winter Night (Btu/hr-ft ² -F)	U-Value Summer Day (Btu/hr-ft ² -F)
Double Glazed: 6-12, 7-6 SunGuard® eXtraSelective SNX 62/27 on #2, , 90% Argon Fill													
62	11	12	93.0	6	23	39	42	38	0.26	0.30	0.238	0.209	2.36
Double Glazed: 6-12, 7-6 SunGuard® eXtraSelective SNX 62/27 on Guardian CrystalGray #2, Clear Float, 90% Argon Fill													
44	8	11	89.8	3	16	19	42	64	0.21	0.24	0.238	0.209	2.08
Double Glazed: 6-12, 7-6 SunGuard® eXtraSelective SNX 62/27 on Green #2, Clear Float, 90% Argon Fill													
52	9	12	85.1	3	18	10	42	72	0.23	0.26	0.238	0.209	2.25
Double Glazed: 6-12, 7-6 SunGuard® eXtraSelective SNX 62/27 on Clear Float #2, Clear Float, 90% Argon Fill													
31	6	11	90.7	3	12	19	42	69	0.17	0.19	0.238	0.209	1.83
Double Glazed: 6-12, 7-6 SunGuard® eXtraSelective SNX 62/27 on Gray #2, Clear Float, 90% Argon Fill													
63	11	12	94.0	7	24	51	42	26	0.26	0.30	0.238	0.209	2.41



**GUARDIAN[®]
GLASS**

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Triple Glazed

Visible Light			Ultraviolet		Solar Energy				Thermal Properties			Light to Solar Gain (LSG)	
Transmittance Visible (τv %)	Reflectance		General Color Rendering Index (Ra)	Trans UV(τuv %)	Transmittance Solar (τe %)	Reflectance		Absorptance Solar (αe %)	Solar Heat Gain Coefficient (SHGC)	Shading Coefficient (sc)	U-Value		
	pv % out	pv % in				pe % out	pe % in				Winter Night (Btu/hr-ft ² -F)	Summer Day (Btu/hr-ft ² -F)	
Triple Glazed: 6-12.7-6-12.7-6 SunGuard@eXtraSelective SNX 62/27 on Clear Float #2, Clear Float, 90% Argon Fill													
56	14	18	91.6	5	21	40	35	39	0.24	0.27	0.179	0.173	2.33
Triple Glazed: 6-12.7-6-12.7-6 SunGuard@eXtraSelective SNX 62/27 on Guardian CrystalGray #2, Clear Float, Clear Float, 90% Argon Fill													
40	10	17	88.5	3	15	20	35	66	0.19	0.22	0.179	0.173	2.08
Triple Glazed: 6-12.7-6-12.7-6 SunGuard@eXtraSelective SNX 62/27 on Green #2, Clear Float, Clear Float, 90% Argon Fill													
47	11	18	83.8	2	16	11	35	73	0.21	0.24	0.179	0.173	2.25
Triple Glazed: 6-12.7-6-12.7-6 SunGuard@eXtraSelective SNX 62/27 on Clear Float #2, Clear Float, Clear Float, 90% Argon Fill													
28	7	17	89.4	2	11	19	34	70	0.15	0.17	0.179	0.173	1.84
Triple Glazed: 6-12.7-6-12.7-6 SunGuard@eXtraSelective SNX 62/27 on Gray #2, Clear Float, Clear Float, 90% Argon Fill													
57	15	18	92.7	6	21	52	35	27	0.24	0.27	0.179	0.173	2.37

The performance values shown are nominal and subject to variations due to manufacturing tolerances. Spectra-photometric values according to NFRC2010 / US Standard.

www.guardianglass.com

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ALUMINUM PICKET RAILING SYSTEMS



Regular Picket

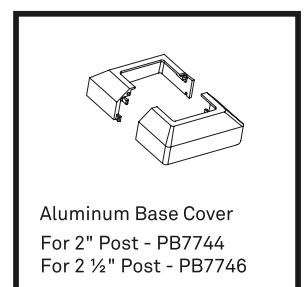
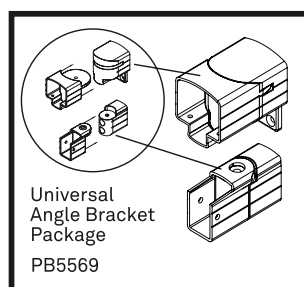
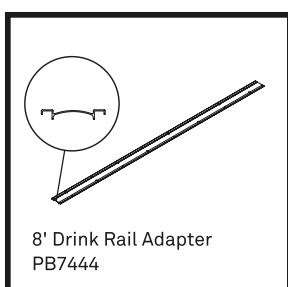
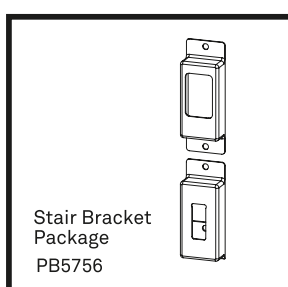
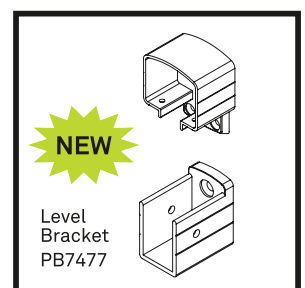
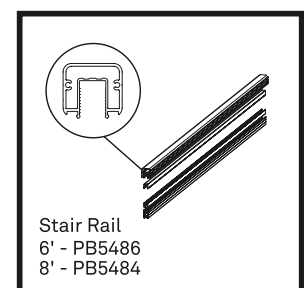
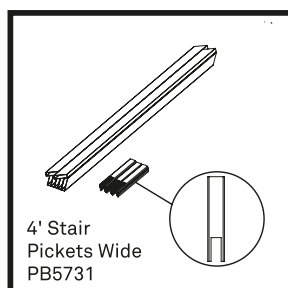
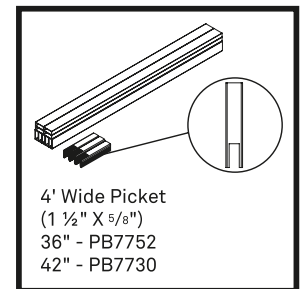
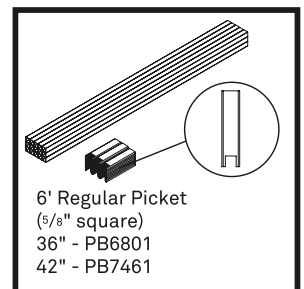
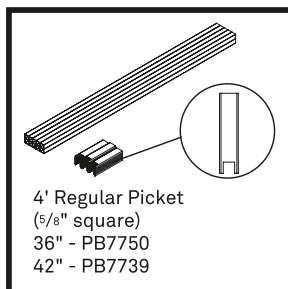
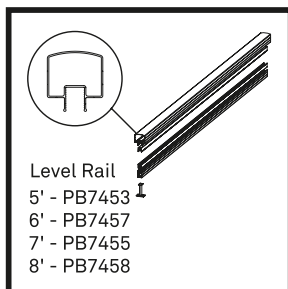
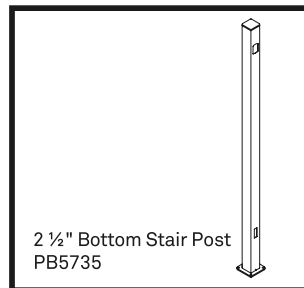
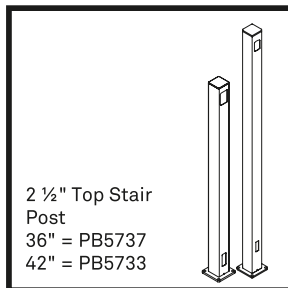
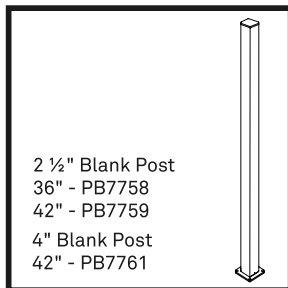
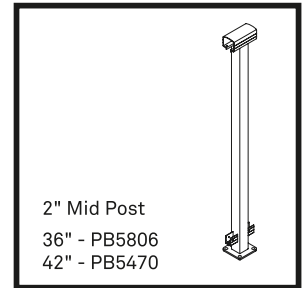
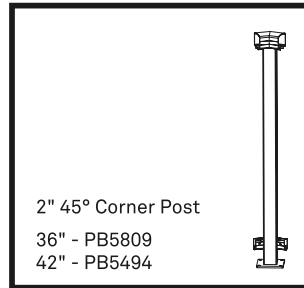
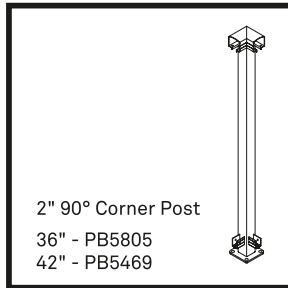
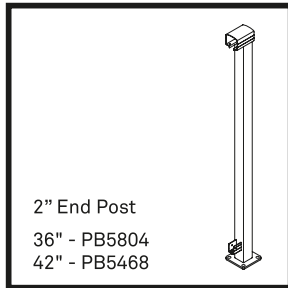
Wide Picket

- ✔ **Picture Frame**
The same rails and post design creates a consistent frame around your infill of choice (regular picket, wide picket, framed glass, cable).
- ✔ **Ease of Installation**
Factory attached brackets mean a quick and simple assembly.
- ✔ **No Secondary Handrail Required**
Creates a better looking project because VISTA stair railing meets the graspable and continuous requirement.
- ✔ **VISTA Planner Project Software**
Simplifies estimating and installation process.
- ✔ **Safety Assured**
Tested in accordance with national building codes.

AVAILABLE AT:

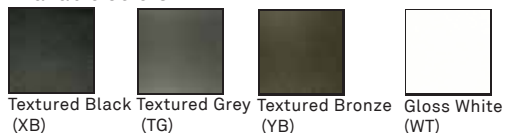
vistarailings.com

ALUMINUM PICKET RAILING SYSTEMS



Note: Check with your local building inspection department as local building codes and bylaws may apply prior to installation.

Available Colors:





**GUARDIAN®
GLASS**

See what's possible™

Guardian UltraClear®

Guardian UltraClear

Guardian UltraClear® Low-Iron Glass

Guardian UltraClear® low-iron glass can help bring the wow factor to your next architectural project. It's noticeably clearer than standard glass — so what people see is completely up to you. True transparency. Breathtaking views. No distractions.



Product Information

Substrate Base Glass/Thickness	Guardian UltraClear/2.3 mm. (3/32") - 12 mm. (15/32")
Applications	Furniture / Facades / Fittings
Manufacturing options	Heat Strengthened / Heat Soaked / Annealed / Tempered / Laminated
Recommended Coating Positions	N/A
Maximum Size	<130"x240" (3302x6096mm)
Edge Deletion	No
Glass type	Low Iron Content
Appearance	Neutral

A7a

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CRL Frameless Base Shoe System

- Great for Glass Windbreaks, Pool Enclosures, Perimeter Fencing, Sound Barriers, and Balconies
- Unique Designs That Allow Completely Unobstructed Views
- Designed and Engineered to Meet the Strictest Codes
- Custom Fabrication is Also Available to Meet Your Specifications

CRL Base Shoe Profiles

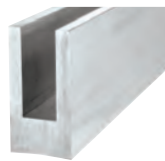
- Drilled and Counter Bored Base Shoes for Monolithic and Laminated Tempered Glazing
- Typically Used as the Base Channel for Glass Windscreen or Railing Systems
- Six Architectural Finishes Available

CRL Aluminum Base Shoes

- Choices Available for Various Glass Thicknesses



8B Base Shoe Windscreen in Brushed Stainless



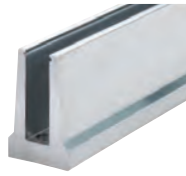
Series W5B
3/8" (10 mm) Monolithic



Series B5A
1/2" (12 mm) Monolithic



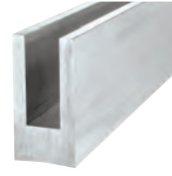
Series 8B10
1/2" (12 mm) Monolithic



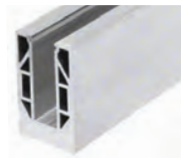
Series B5T
1/2" (12 mm) Monolithic



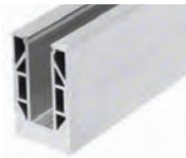
Series 9BL68
11/16" (15mm) Laminated



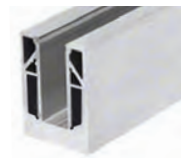
Series W7B
3/4" (19 mm) Monolithic



Series 8B34
3/4" (19 mm)
Monolithic



Series 9BL56
9/16" (14.3 mm)
Laminated



Series 9BL21
27/32" (21.52 mm)
Laminated



Series L25S
1-1/16" (25.52 mm)
Laminated

Aluminum Base Shoes are used as the base channel for glass railing systems and frameless glass windscreen systems. There are ten distinct series to accommodate monolithic tempered and laminated glass in various thicknesses from 3/8" to 1-1/16".

In typical glass pool surrounds monolithic is the glass of choice. But in situations where the glass panels are elevated above pedestrian areas, such as in shopping plazas or on balconies, the use of laminated glass is recommended to prevent broken pieces from falling to lower levels.

Base Shoes support both dry glazed and wet glazed installation methods, CRL offers all of the tools and supplies required to make a safe and successful installation.

Stock Base Shoes are available pre-drilled and counter bored, or in un-drilled lengths that can be custom fabricated to your exact job requirements. Accessory cladding is available in six beautiful architectural finishes, or you can specify custom powder-coated paint in hundreds of colors.

Available Base Shoe Accessories



Base Shoe Cladding



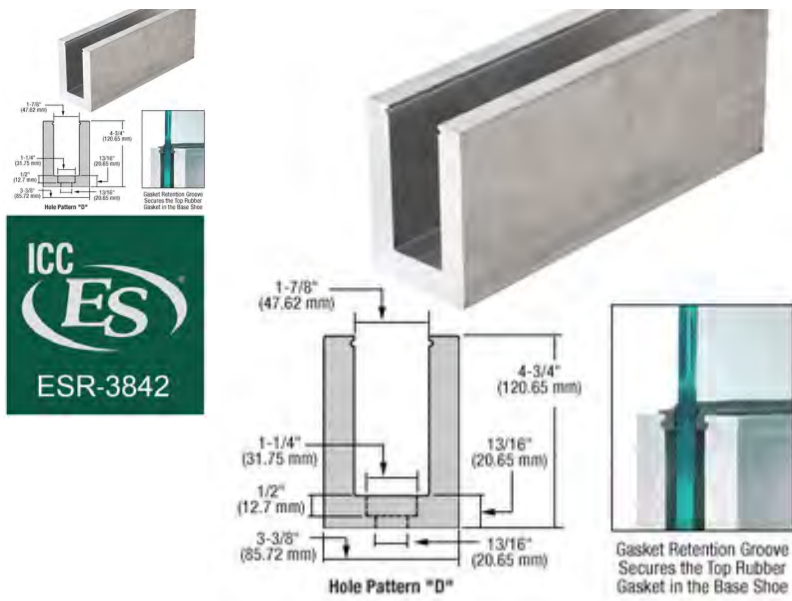
Mitered Corner Cladding



Base Shoe End Caps



Roll In Vinyl



Click Image To Enlarge

Share Print

CRL L25S Series Mill Aluminum 118-1/8" Square Base Shoe Drilled for 1-1/16" Glass

Finish/Color: Mill



Item #: L25S10D

Where to buy

View Technical References, CAD Drawings & Quote Request Forms

Shipping Weight : 102.83 Pounds

Shipping Limitations : No UPS - Common Carrier Only

Compliance and Restrictions

Warning Reproductive Harm - www.p65warnings.ca.gov

Related Products



CRL TAPER-LOC® Taper Sets for 21.52 and 25.52 mm Laminated Tempered Glass

Item # : LTL10X



CRL TAPER-LOC® Extraction Tool

Item # : TLEX1



CRL TAPER-LOC® Installation/Removal Tool Kit for Glass Railing and Windscreen Systems

Item # : TLK12



CRL 1973 Ammoniated Aerosol Glass Cleaner

Item # : 1973

Product Details

Drilling Center To Center (Inches)	11-13/16	Height (Inches)	4-3/4
Finish/Color:	Mill	Length (Inches)	118-1/8
Glazing Thickness (Inches)	1-1/16	Material	Aluminum
Glazing Type	Laminated	Width (Inches)	3-3/8

Product Overview

For 1-1/16" (25.52 mm) Laminated Tempered Glass (12 x 1.52 x 12 mm)

Drilled and Counter Bored 11-13/16" (300 mm) Center-to-Center, or We Will Custom Drill to Your Specifications
 Typically Used as the Base Channel for Glass Railing Systems or Windscreens
 Works with LTL10X TAPER-LOC® Taper Sets
 Engineering Reports Available
 CRL Recommends Consulting with the Glass Fabricator Prior to Wet Setting Laminated Tempered Glass
 CRL Glass Railing Systems Meets NBC Load Requirements When Installed in Accordance to **ICC-3842**

The **CRL L25S Series Laminated Square Base Shoe** is used as the base channel for glass railing systems. It can be clad in four choices of architectural finishes. The most critical component in a railing system is the proper attachment of the Base Shoe to the substrate. CRL has engineered a variety of attachment methods, and has developed an acceptable combination of drilling patterns and fasteners. A printed brochure with instructions, installation hints, cleaning, and refinishing techniques is available.

GLASS SPECIFICATIONS:

For use with 1-1/16" (25.52 mm) Laminated Tempered Glass 1/2" x .060 x 1/2" (12 mm x 1.52 mm x 12 mm)
 Thickness Range: 0.960" to 1.060" (24.40 to 26.92 mm) Will work with ASTM 1" (25.4 mm) Monolithic Tempered Glass Will not accommodate the full ASTM thickness range for 1-1/16" (27 mm) glass


Product Warning:

CRL does not recommend direct powder coating of this base shoe extrusion. Powder coated cladding applied over the base shoe is the recommended method.

All pre-drilled CRL Base Shoes have a +1/8 (3mm) / -1/16 (1.5mm) tolerance between each hole drilled in the base. Before drilling installation holes in the concrete or steel substrate it is recommended that the installer place the base shoe into the planned final position, then mark the position of the holes to be drilled into the substrate.

Most shipping weights are approximate and have not been verified. If the exact weight is needed in order to determine shipping costs, and shipping costs are required in order for you to complete your order, please request this prior to submitting your order by contacting CRL Customer Service. Product images shown are of the actual product or a close representation. Colors can vary depending on your computer's video card and on how your monitor's color is adjusted.

Technical References & CAD Drawings

Brochures & Literature	Quote Request Forms
Windscreen and Pool Fencing Systems Product Information 	GRS Base Shoe Quote Request Form 
	GRS Cap Railing System Quote Request Form 
Specifications	CAD Drawings - pdf
GRS Taper-Loc System Laminated Glass Base Shoe Specifications 	GRS Laminated Taper-Loc 02-08-2016 CAD Drawings.pdf 
	L25S10 Detailed CAD Drawings.pdf 
CAD Drawings - dwg	Engineering & Test Reports
GRS Laminated Taper-Loc 02-08-2016 CAD Drawings.dwg 	ESR-3842 ICC-ES Evaluation Report April 2023 
L25S10 Detailed CAD Drawings.dwg 	GRS Glass Railing Systems 25.52 mm 1 inch U.S. Official Test Report 06-22-2010 
	GRS Taper-Loc Dry Glaze System 1-1-16 inch 25.5 mm Laminated Glass Engineering Report 11-08-2021 

HIGH PERFORMANCE LINE

EXTREME[®] 1024 HIGH PERFORMANCE DOOR A8

Models EPD1024 & EPI1024 (insulated)



1 MILLION CYCLES FOR HIGH USE OPENINGS

CONTINUOUS-DUTY DESIGN

The Extreme 1024 High Performance Door delivers reliable security, no maintenance (outside of routine checks) and an exceptional cycle life. It also offers extreme durability backed by a five year warranty.

SPEED YOU CAN COUNT ON

Tested to perform for more than a million cycles at an opening speed of up to 24" per second, 1024 doors operate **three times faster** than standard coiling overhead sectional doors.

PREFERRED APPLICATIONS

This door is a superior choice for high-security needs and high-use applications (distribution, government, manufacturing, parking, transportation, etc.), and accepts virtually all activation systems.

PROVEN RETURN ON INVESTMENT

1024 Doors provide the lowest lifetime cost and lowest cost-per-cycle versus other high-performance slatted products. Plus, their cost-per-cycle savings increase dramatically when compared to standard coiling doors often used incorrectly in high-cycle openings.

ENERGY EFFICIENCY

This door can maximize energy savings by quickly sealing your building during inclement weather to minimize air exchange. The insulated model features the patented Thermiser Max perimeter sealing system – which meets ASHRAE[®] 90.1², 2015 IECC[®] and California's Title 24 air infiltration requirements with an independently tested³ value of less than 0.3 CFM/FT².

800.233.8366 | cornelliron.com

CornellCookson, LLC. is an ISO 9001:2015 registered company
3.2022

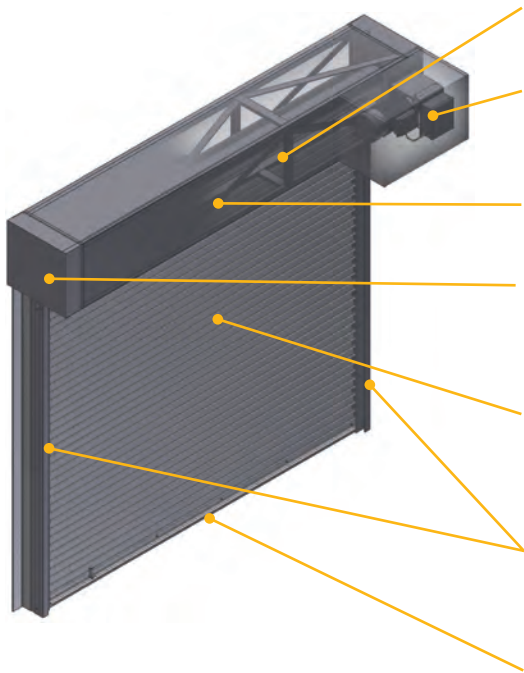
EXTREME SERIES

CORNELL
Innovative door solutions[™]

HIGH PERFORMANCE LINE **EXTREME® 1024 HIGH PERFORMANCE DOOR**

Models EPD1024 & EPI1024 (insulated)

STANDARD COMPONENT MATERIALS AND FINISHES



HOOD (optional) - Galvanized steel with powder coat finish to match curtain. Encloses the curtain and provides weather resistance at the head of the door.

MOTOR - UL listed, SEW Eurodrive TEFC NEMA 4 variable-speed motor and patented, high-performance brake prevents curtain from free falling in the unlikely event of operator component failure.

SPRINGLESS SHAFT - Steel. Design reduces maintenance requirements and facilitates cycle capacity.

BRACKETS/COIL BOX ASSEMBLY - Steel plate brackets are part of the unitized coil box assembly with the curtain and barrel. Access hatch for ease of servicing. Drive and tension brackets both furnished with precision ball bearings.

CURTAIN - Galvanized steel with rust inhibiting CycleShield™ powder coat finish in Gray, Tan, or White. Interlocking roll-formed slats with end locks riveted to ends of alternate slats to maintain slat alignment and prevent wear. Model EPI1024 features a foamed in place insulated curtain

GUIDES - Steel angles with powder coat finish to match curtain. Self-lubricating UHMW anti-wear strips greatly reduce friction and curtain wear. Perimeter-sealing, double brush weather strip.

BOTTOM BAR - Two back-to-back structural steel angles with powder coat finish in Gray, Tan or White.

OPERATION AND STRUCTURAL REQUIREMENTS

Motor operation required.

This product is supported by a guide assembly attached to the jamb construction. No additional header supports are mandated by a larger opening width.

- ▶ **Static up to 50 PSF design wind-load**
- ▶ **Operational up to 10 PSF maximum wind-load**

OPTIONAL MATERIALS AND FINISHES

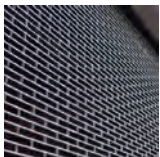
- ▶ Stainless steel - Type 304 in #4 finish
- ▶ SpectraShield® Powder Coating in more than 180 colors
- ▶ Zinc-enriched, corrosion-resistant powder coating in Gray

UNIQUE FEATURES

1024 DRIVE AND CONTROL SYSTEM - Control panel features wall-mounted starter. PLC controller with variable-frequency drive featuring soft-start and soft-stop at both ends of limit travel. NEMA4 rated for harsh weather environments.

MONITORED PROTECTION, EVEN AT HIGH SPEEDS - The factory-mounted UL 325-2010 (NEMA 4C) compliant photo eye sensors allow for momentary contact operation, useful in parking garages and other high-use openings. Interruption of the photo eye beam before the door fully closes causes the door to immediately halt downward travel and reverse direction to return to the open position.

SAFETYGARD LIGHT CURTAIN TECHNOLOGY - The factory-mounted light curtain attaches easily to the guide assembly and extends approximately 6' high from the finished floor on both sides. If the door is cycling and an object passes through the curtain beams, the door will immediately halt downward travel and reverse direction to return to the open position.



CUSTOM-DESIGNED SOLUTIONS

Contact our experienced Architectural Design Support Team for help in customizing our products to fit your specific application.

 www.architectdoorhelp.com

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3.2022

CORNELL
Innovative door solutions.™

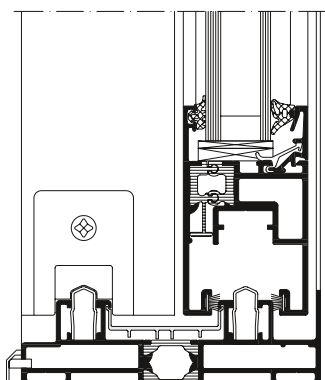
Schüco ASS 50

Aluminium Schiebe- und Hebeschiebesystem
Aluminium sliding and lift-and-slide system

A9a



Schüco Schiebesystem ASS 50
Schüco Sliding System ASS 50



Schüco Schiebesystem ASS 50,
Maßstab 1:3
Schüco Sliding System ASS 50,
scale 1:3

Schüco ASS 50

Produktvorteile

- Schlagregendichtheit bis Klasse 9A nach DIN EN 12208
- Große Typenvielfalt auf Basis 1-, 2-, und 3-spüriger Blendrahmen
- Schalldämmung gemäß DIN EN ISO 140-3 und DIN EN ISO 717-1, $R_w \leq 40$ dB
- Glasstärken von 8-32 mm einsetzbar
- Flaches Blendrahmenprofil als umlaufender Rahmen
- Große Farbvielfalt, außen andersfarbig als innen

Product benefits

- Watertightness up to class 9A in accordance with DIN EN 12208
- Wide choice due to single, double and triple track outer frames
- Sound insulation in accordance with DIN EN ISO 140-3 und DIN EN ISO 717-1, $R_w \leq 40$ dB
- Glazing thickness 8-32 mm
- Flat outer frame profile as continuous frame
- Wide choice of colours – different inside and outside

Verarbeitungsvorteile

- Hohe Flexibilität im Objektgeschäft durch Profil-Eigenverbund
- Kombinierbar mit Oberlichtern, Seitenteilen oder Brüstungsfeldern der Serie Schüco Fenster AWS 50, AWS 60 oder AWS 65

Fabrication benefits

- High degree of flexibility due to customers being able to roll their own profiles together
- Can be combined with toplights, side sections or spandrel panels from the Schüco window series AWS 50, AWS 60 or AWS 65

Technische Daten Technical data

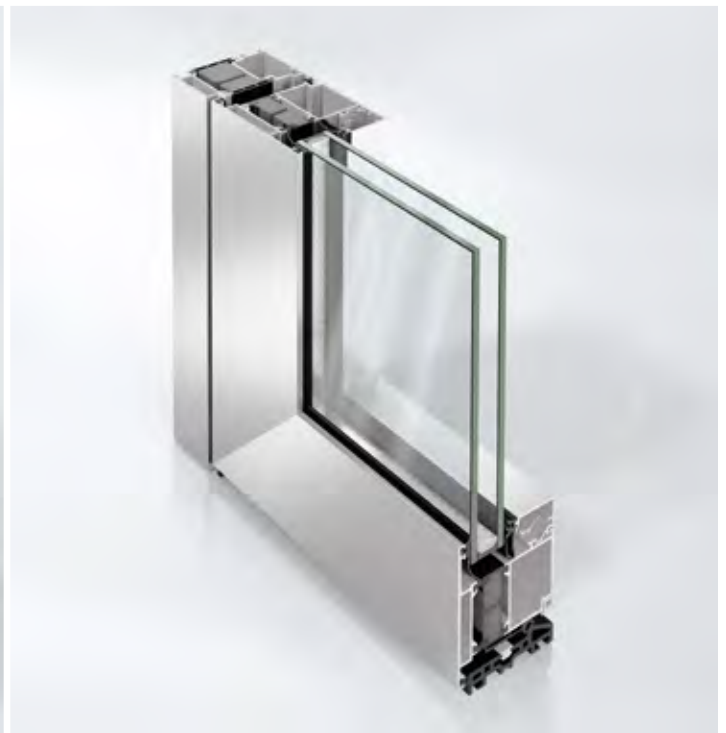
	Wert Value
Wärmedämmung Thermal insulation	U_w ab 1,9 W/(m ² K) U_w from 1,9 W/(m ² K)
Flügelrahmen-Bautiefe Basic depth of vent frame	50 mm
Flügelmaße (BxH) Vent size (WxH)	max. 3.000 x 3.000 mm
Flügelgewicht Vent weight	max. 400 kg
Widerstandsklasse Security class	RC2 (WK2)
Anzahl der Laufschienen Number of tracks	1 – 3

Schüco International KG
www.schueco.com

SCHÜCO

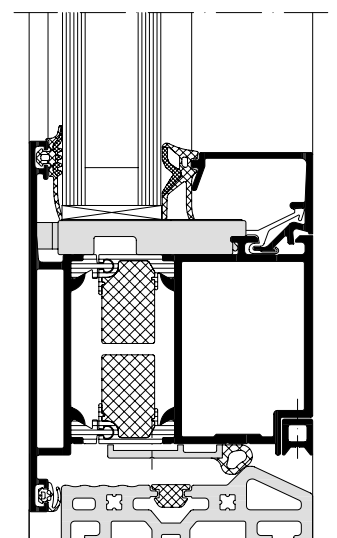
Schüco ADS 75 HD.HI

Aluminium Door System
Aluminium-Türsystem



Busy buildings require particularly robust door systems. Their value is enhanced by the specially reinforced construction and the large opening width of the Schüco ADS 75 HD.HI (Heavy Duty, High Insulation) door. Not only is it a striking feature of the façade, it is also suitable for use in almost every type of project with a basic depth of 75 mm and clearance heights of up to 3,000 mm. The degree of creative freedom is particularly high. Suitable for use with all Schüco façade and window systems, the benefits of the classic and timeless design are self-evident.

Hochfrequentierte Gebäude benötigen besonders stabile Türsysteme. Ihr Nutzwert steigt durch die speziell verstärkte Konstruktion und die große Öffnungsweite der Schüco Tür ADS 75 HD.HI (Heavy Duty, High Insulation). Die Tür setzt nicht nur markante Blickpunkte in der Fassade, sondern ist bei einer Bautiefe von 75 mm und Durchgangshöhen von bis zu 3.000 mm für nahezu jeden Einsatzbereich geeignet. Der Freiheitsgrad in der Gestaltung ist besonders groß. Passend zu allen Schüco Fassaden- und Fenstersystemen zeigen sich die Vorteile des klassischen und zeitlosen Designs.



Schüco door system ADS 75 HD.HI,
Sill, scale 1:2
Schüco Türsystem ADS 75 HD.HI,
Fußpunkt, Maßstab 1:2

Schüco Tür ADS 75 HD.HI

Aluminium Door System

Aluminium-Türsystem



Schüco Aluminium door system
ADS 75 HD.HI
Schüco Aluminium-Türsystem
ADS 75 HD.HI



Schüco door system ADS 75 HD.HI
Schüco Türsystem ADS 75 HD.HI

Schüco ADS 75 HD.HI

Product benefits / Produktvorteile

- | | |
|---|---|
| <ul style="list-style-type: none"> ▪ Burglar-resistant up to RC3 (WK3) ▪ Opening width up to 2,800 mm (double-leaf) ▪ Generous clearance heights of up to 3,000 mm ▪ Max. leaf weight 200 kg ▪ Barrel hinge with reinforced design ▪ Choice of sill rail profile or continuous leaf profile | <ul style="list-style-type: none"> ▪ Einbruchhemmend bis RC3 (WK3) ▪ Öffnungsweite bis 2.800 mm (2-flügelig) ▪ Komfortable Durchgangshöhen bis 3.000 mm ▪ Max. Flügelgewicht 200 kg ▪ Rollentürband in verstärkter Ausführung ▪ Wahlweise Sockel- oder umlaufendes Flügelprofil |
|---|---|

Fabrication benefits / Verarbeitungsvorteile

- | | |
|---|---|
| <ul style="list-style-type: none"> ▪ Automatic door seal ▪ Easy-access solutions ▪ Concealed hinges ▪ Leaf-enclosing infill ▪ Door hinges tested in 1,000,000 cycles for continuous loading in accordance with DIN EN 12400 ▪ Emergency fittings ▪ Emergency exit switch ▪ Double-leaf full panic door in RC2 (WK2) with Schüco InterLock automatic locking | <ul style="list-style-type: none"> ▪ Automatische Türabdichtung ▪ Barrierefreie Lösungen ▪ Verdeckt liegende Bänder ▪ Flügelüberdeckende Füllung ▪ Türbänder mit 1.000.000 Zyklen auf Dauerbelastung geprüft nach DIN EN 12400 ▪ Panikbeschläge ▪ Fluchttürsicherung ▪ 2-flügelige Vollpaniktür in RC2 (WK2) mit Automatikverriegelung Schüco InterLock |
|---|---|

Technical data / Technische Daten

Test / Prüfung	Standard / Norm	Value / Wert
Thermal insulation / Wärmedämmung	DIN EN ISO 1077-2	Value U _f -Wert in W/(m ² K) maximally maximal 2,0
Burglar resistance / Einbruchhemmung	DIN EN 1627	RC3 (WK3)
Air permeability / Luftdurchlässigkeit	DIN EN 12207	Class Klasse 2
Watertightness / Schlagregendichtheit	DIN EN 12208	to Class bis Klasse 5A
Wind resistance / Windlastwiderstand	DIN EN 12210 ¹	to Class bis Klasse C3
Mechanical loading / Mechanische Beanspruchung	DIN EN 13115	to Class bis Klasse 3

¹ The amount of deflection will depend on the profile / Durchbiegungsverhalten profilabhängig.

SCHÜCO
Distributor Australia

CAPRAL
ALUMINIUM

Contact details:

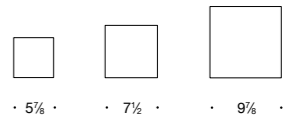
Phone: 1800 ALUMINIUM 258 646

www.capral.com.au

www.schueco.com.au



A10a



Recessed wall luminaires

Asymmetric light distribution

For decades, BEGA has set the standard for recessed wall luminaires worldwide. Newly redesigned with a refined look, broader range of delivered lumens, and contractor friendly enhancements for ease of installation and quality assurance, BEGA's unwavering commitment to quality above all permeates everything about this new approach to recessed wall luminaires.

Recessed wall luminaires with asymmetrical directed light distribution available in multiple sizes. The asymmetrical distribution provides light in a forward orientation and is suitable for lighting ground surfaces, building entrances, and stairways. Separate installation housing allows for seamless coordination into construction and easy maintenance.

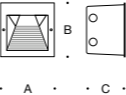
Die-cast aluminum housing with die-cast aluminum faceplate · Composite installation housing
Safety glass with optical texture

LED color temperatures: 2700K, 3000K, 3500K, 4000K

BEGA luminaires offer a minimum service life of 60,000 hours, with suitable LED replacement modules guaranteed for up to 20 years after date of purchase. Further LED technical data including luminous flux, CRI, dimming and electrical characteristics are provided on the individual luminaire specification sheets, available at www.bega-us.com

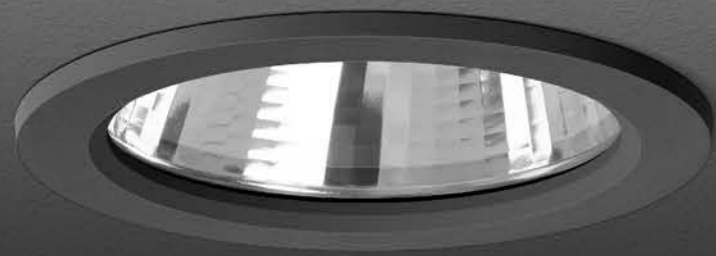
All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White, as well as optionally available RAL and custom colors, are a polyester powder.

NRTL listed to North American standards · Suitable for wet locations · Protection class IP 65

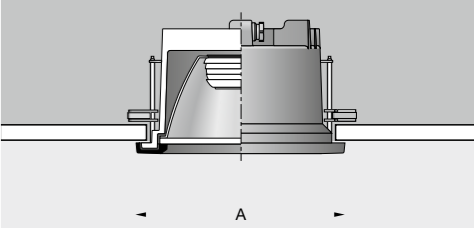


Asymmetric				
	LED	A	B	C
24 210	2.9 W	5 7/8	5 7/8	5 1/4
24 211	4.8 W	7 1/2	7 1/2	5 1/4
24 212	11.6 W	9 7/8	9 7/8	5 1/4





A10b



Downlights
Symmetric light distribution

Electronic driver location **ceiling pan**
 Delivered lumens **1200 · 5015 lm**
 Luminaire size **Ø 5 3/4 · 6 3/4 · 8 1/2**
 Glass **clear safety glass**

Downlights
with symmetric light distribution

A series of compact downlights featuring BEGA Hybrid Optics®, available in a variety of light distributions and light outputs. These luminaires are designed for down lighting atriums, canopies, passages and other interior and exterior locations.

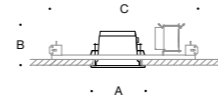
Die-cast aluminum housing and trim ring · Clear safety glass
 Reflector surface made of pure anodized aluminum
 Molded silicone optical lens · BEGA Hybrid Optics®

LED color temperatures: 2700K, 3000K, 3500K, 4000K

BEGA luminaires offer a minimum service life of 60,000 hours, with suitable LED replacement modules guaranteed for up to 20 years after date of purchase. Further LED technical data including luminous flux, CRI, dimming and electrical characteristics are provided on the individual luminaire specification sheets, available at www.bega-us.com

All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White, as well as optionally available RAL and custom colors, are a polyester powder.

NRTL listed to North American standards · Suitable for wet locations
 Protection class IP 65



Downlights · narrow beam

	LED	β	A	B	C
24 817	8.3 W	21°	5 3/4	5	18
24 820	16.8 W	21°	5 3/4	5	18
24 818	11.5 W	15°	6 3/4	5	18
24 821	24.5 W	15°	6 3/4	5	18
24 819	17.3 W	19°	8 1/2	5	18
24 822	36.0 W	19°	8 1/2	5	18

Downlights · wide beam

	LED	β	A	B	C
24 823	8.3 W	38°	5 3/4	5	18
24 826	16.8 W	38°	5 3/4	5	18
24 824	11.5 W	29°	6 3/4	5	18
24 827	24.5 W	30°	6 3/4	5	18
24 825	17.3 W	31°	8 1/2	5	18
24 828	36.0 W	32°	8 1/2	5	18

Downlights · very wide beam

	LED	β	A	B	C
24 829	8.3 W	59°	5 3/4	5	18
24 832	16.8 W	61°	5 3/4	5	18
24 830	11.5 W	56°	6 3/4	5	18
24 833	24.5 W	57°	6 3/4	5	18
24 831	17.3 W	56°	8 1/2	5	18
24 834	36.0 W	56°	8 1/2	5	18

β = Beam angle





L1

PINE HALL BRICK

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Product Features & Specifications

Square-Edge Series Product Features & Colors

Features: square edge brick pavers available in 4"X 8" and Modular Size

Colors: 4x8" available in Red, Full Range, Beale St., Autumn, Cocoa, Rose, Dark Accent, Buff, Grey and Ironspot from Madison, NC Plant. Modular available in Red, Full Range and Cocoa from Madison, NC Plant.

Square-Edge Series 2.25" Product Specifications

Unit clay paver shall conform to the requirements of ASTM C902, Class SX, Type 1, Application PX and C67 for Freeze and Thaw. Units shall be standard 4" x 8" (or standard modular) size having dimensions of 2 1/4" x 4" x 8" (or 2 1/4" x 3 5/8" x 7 5/8"), square-edge on both sides, 8,000 psi minimum compressive strength and below 8% cold water absorption. Paver shall conform to Pathway [color] as manufactured by Pine Hall Brick Co., Inc., Winston-Salem, North Carolina and distributed by [party responsible for specification].

Square-Edge Heavy Vehicular 2.75" Product Specifications

Unit clay paver shall conform to the requirements of ASTM C1272, Application PA and C67 for Freeze and Thaw. Units shall be standard 4" x 8" size having dimensions of 2 3/4" x 4" x 8", 10,000 psi minimum compressive strength, minimum breaking load of 475 lb/in and below 6% cold water absorption. Paver shall conform to Pathway Series as manufactured by Pine Hall Brick Co., Inc., Winston-Salem, North Carolina and distributed by [party responsible for specification]. *(Note: Designer needs to emphasize proper paver spacing of 1/16" min to 3/16" max in written specs when specifying this paver in a heavy vehicular paving application. Expect chippage regardless.)*

Jan 2021

STONE LOOK

SKY



Available size



24" x 24"
± 0.8"

Color shading



DESERT



Available size



24" x 24"
± 0.8"

Color shading



ABSOLUTE



Available size

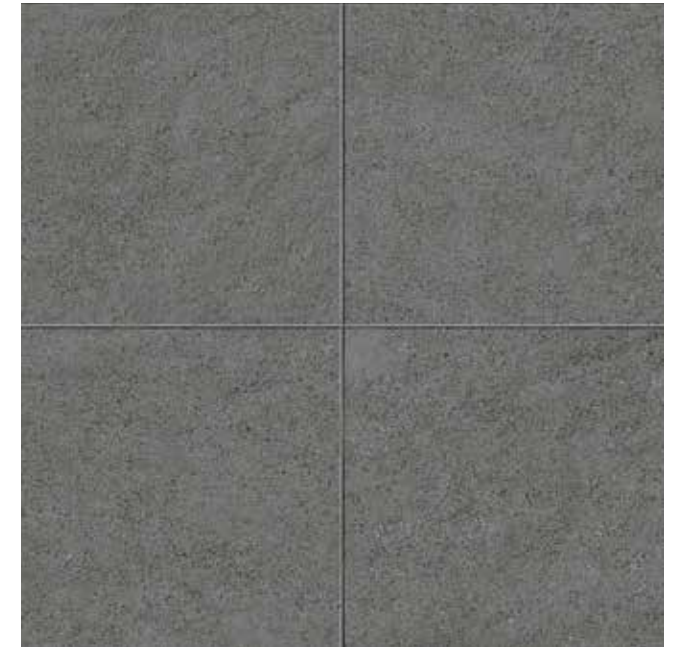


24" x 24"
± 0.8"

Color shading



COSMOS



Available size



24" x 24"
± 0.8"

Color shading



The color of pavers printed in this catalog may differ from actual pavers. Paver color reproductions in this catalog are representative only. Slight tone and shade variations are inherent in porcelain pavers. Before selecting a color, we recommend that you contact your local representative, who will provide you with a sample piece of the requested paver.

This porcelain paver product is manufactured with a V2 shade variation. Remember that the amount of color as well as the texture of each piece may vary from paver to paver. Inspect the product immediately upon delivery and select pavers from many boxes during installation to minimize and blend any possible color difference.

Color Shading



TECHNICAL INFORMATION.

PROJECT

OUTDOOR FLOOR DESIGN

Frontier20 Blue Select Bluestone - 24"x24"

Frontier20 Blue Select Bluestone Coping - 12"x24"

Frontier20 Blue Select Bluestone Coping Corner - 12"x24"

WALL DESIGN

Veneer World Pro LedgeStone Bluestone Blue Select - 6"x24"

INSTALLATION INFORMATION AND RECOMMENDATIONS.

INSTALLATION INFORMATION AND RECOMMENDATIONS.

Specific details and instructions are given for each of the following installation options. Different climates and geographical locations will affect the thickness of the base. Depending on the location, contractors will install the standard base thickness to install porcelain pavers for the needs of the area. When installing porcelain pavers, the bedding course sand must be pre-compacted and then struck off with a screed to the required thickness as shown in the drawings. Before the laying of the porcelain pavers, the sand layer underneath must be pre-compacted. The sand layer needs a 5 to 6% moisture content to insure a smooth strike off finish.

Compacting dry sand will not give the desired results.

- Only use a paver saw with a wet cut porcelain blade to wet cut porcelain pavers.
- Before installing your porcelain pavers in sand set installations, pre-compact and strike off your sand leveling course.
- Plastic $\frac{3}{16}$ " (4 mm) spacers ($\frac{1}{4}$ " - 6mm for MPD installation) must always be used to install pavers on sand set and permeable installations. The photo on the right illustrates the use of the $\frac{3}{16}$ " spacer to support and space the 4 paver corners.
- Never install pavers with porcelain to porcelain contact.
- The use of plate compactors is not recommended to be used on the porcelain pavers.

JOINT FILLING

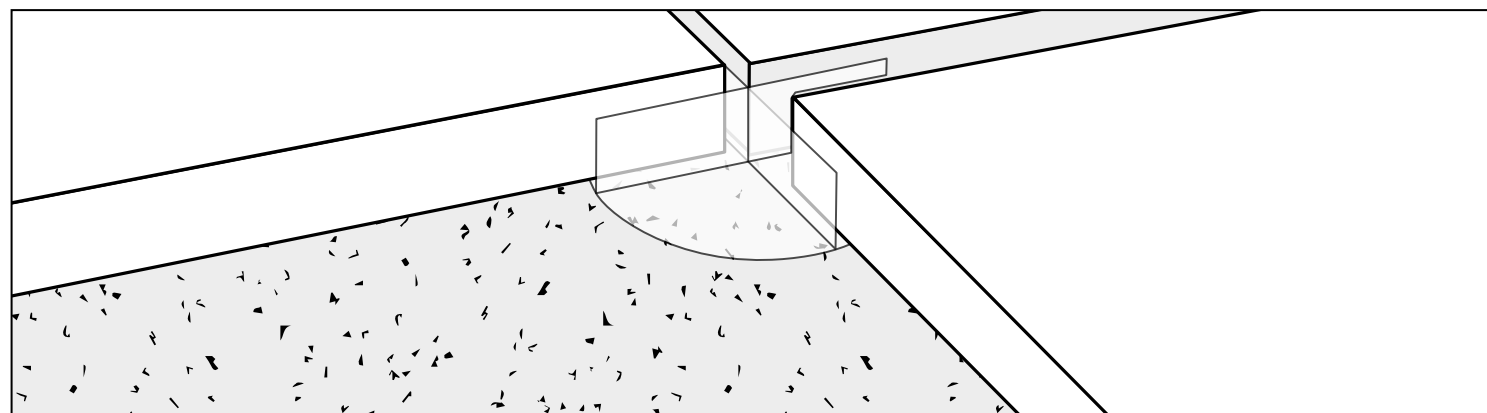
When installing porcelain paver on sand set base, fill the paver joints with these options:

Traditional sand

Fill the open joints with traditional dry sand until completely filled. Sweep any excess sand off the pavers. Refilling of the joints with sand may be needed in the future due to wind and rain erosion.

Polymeric sand

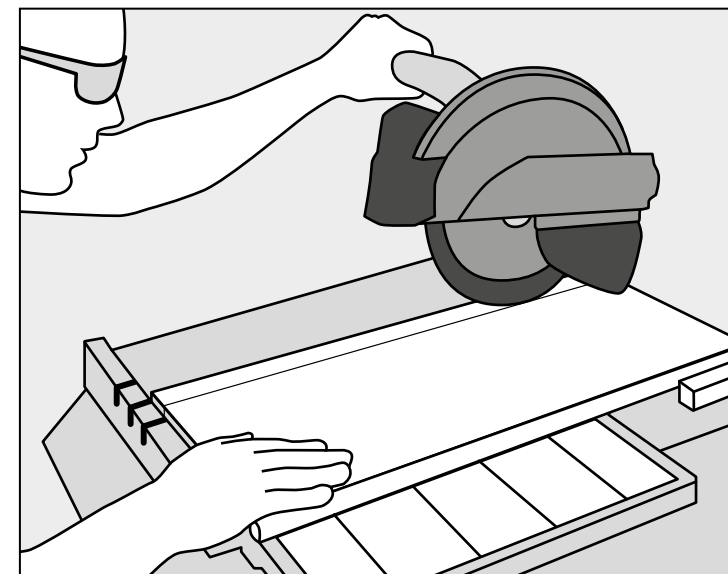
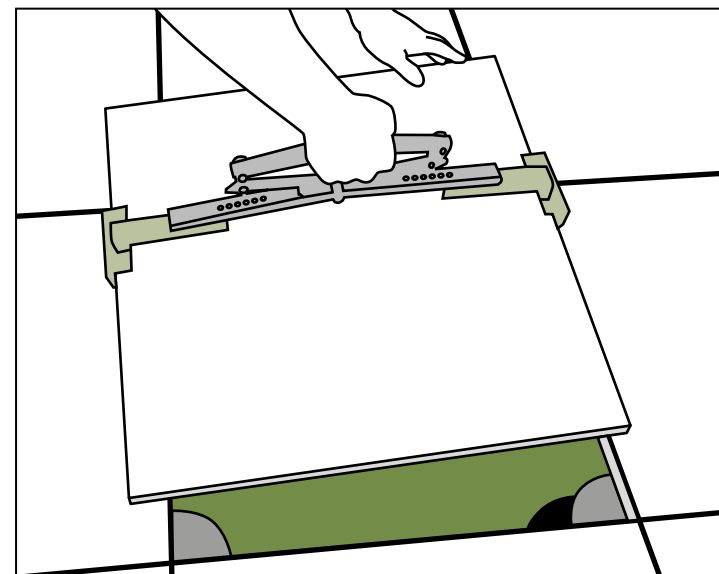
Polymeric sand is a blend of polymers which harden when subjected to moisture. Sweep the sand into the open joints until completely filled. All excess sand and dust must be swept from the surface. Use a blower for the final dust removal to make certain all excess sand is removed. Any residual sand or dust can result in staining of the surface. Once the filling of the joints and the cleaning of the surface is complete, mist the pavement with water which activates the polymer and cures the mixture.



HANDLING AND SPECIALTY TOOLS.

Porcelain paver pallets are shipped with a very strong plastic covering and the individual units are packaged in protective cardboard boxes. The protective cardboard boxes guard them from the possibility of chipping. The handling of multiple loose stones can result in damaging or chipping of the pavers. Protect any un-used boxed pavers from the elements once the plastic shipping cover is removed. This insures the integrity of the protective cardboard boxes.

Wet cut paver saw is used to cut paver accurately and cleanly to fit around edges and corners. The saw must be equipped with a diamond blade manufactured for wet cutting porcelain and designed to safely cut a 24" (60 cm) length porcelain paver. A paver clamp to easily handle the installation and removal of pavers. Gloves are highly recommended while handling and installing porcelain slabs to protect the hands from injury. Notched trowels and grout float tools for cementitious adhesive and grout installation. Follow the adhesive and grout manufacturer's recommendations to select the appropriate tools needed for application.



IMPORTANT NOTE: LEGAL DISCLAIMER
The nominal measurements include 4 mm (approx $\frac{3}{16}$ ") for product spacers which are sold separately. Although extreme care has been taken to ensure the accuracy of all measurements set forth herein, manufacturer assumes no liability relating thereto.

IMPORTANT NOTES:
1. Use the manufacturer's instructions when choosing polymeric sand for your project.
2. The use of cement blended sand and polymeric sand can reduce plant growth and insect infiltration within the joint infill material.
3. Whether using traditional sand or a cemented blended sand, ensure the gradation of the sand is fine enough to pass through and fill the joints.

LINEAR CUT.

The videos linked below show how to properly cut thick porcelain pavers (porcelain tiles with 20 mm thickness) currently used for outdoor installations. Cutting these porcelain thick pavers is very different than cutting standard thickness tiles. The extreme hardness of the material, combined with its thickness, are the main factors that will put cutting tools to the test. Based on the experience of many professional tile installers, what often happens is that the basic blades make one or two good cuts on very thick tiles and then lose their cutting power. This causes the diamond blade to be so ruined that it can't even be recovered with common abrasive stones. Many tile and brick installers have found a first solution for this: using segmented blades to cut these thicker tiles. These are more aggressive blades that easily cut this type of ceramics leaving though a very poor cutting finish. There is then the need to spend time after each cut to finish the cut edge of the tile, especially if it is going to be laid in a position that leaves that edge visible after installation. It is important that the cut is made using a professional wet saw cutting machine and that it is made by pushing (or pulling, depending on how the cutting saw is built) the blade parallel to the plane from the beginning of the cut, applying a horizontal force (figure 1 and 2) to the trolley while avoiding to push (or pull) with excessive force. **Please note that the cut has to be performed at once with one passage. It is very important to pull down the blade without touching the tile and then pull/push the disc to cut the entire paver all at once.**

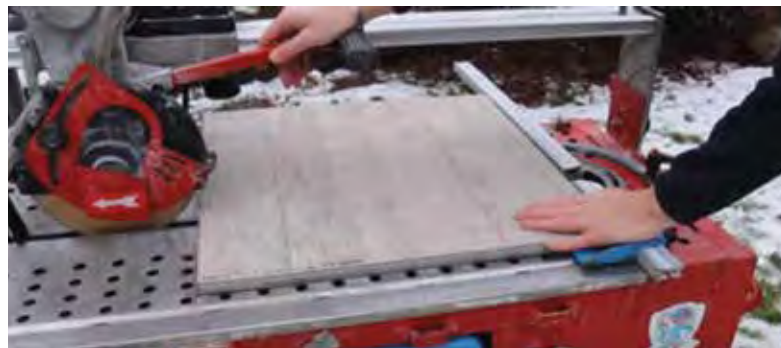


FIGURE 1



FIGURE 2

It is not recommended (figure 3) to carry out the cut by applying a force perpendicular to the side of the cutting plane (basically pushing down the saw into the tile). In fact, performing a vertical cut could affect the internal tensions of the product and lead to tile breakage.



FIGURE 3

Another cutting method consists in making a groove about 2 / 3mm deep (figure 4) by applying a very light force perpendicular to the paver surface first and then making the final cut at once with one passage, as above reported in figure 1 and 2.



FIGURE 4

In both cases, it is always recommended to use high quality disc blades and to perform the revitalization operations of the latter whenever necessary to achieve a proper cut.

recommend using a high quality blade specific for porcelain and revive it often. By using a low quality blade, or a blade not specifically made for porcelain, it might need to be revived 2 or even 3 times during the same cut. This can lead to extra costs related to the use of many diamond abrasive stones or, even worse, it can significantly increase the likelihood of breaking the paver during the cutting process.

During cutting, always recommends the use of abundant water before, during, and after the cutting phases to minimize the presence or dispersion of ceramic powder and to cool down the blade.

Once the cut has been completed, clean the newly cut surface with water, in order to remove all the dust from the paver created by the cutting



ARCHITESSA

an Architectural Ceramics brand

DRILLING HOLES WITH CORE BITS.

The creation of holes in traditional 9 / 10mm thick porcelain tile is a common practice, but it is very delicate and requires experience and technique. This is even more true for 20mm thick porcelain paver, being this pArcticular tile thicker and more resistant. To carry out this specific cut, it is recommended to use drills or grinders together with high quality core bits for porcelain tile and paver. The use of low quality core bits could cause numerous breakages, together with an extremely accelerated wear of the tool due to the resistance of the 20mm porcelain stoneware. First of all, it is suggested to place the tile on a rigid support that absorbs the vibrations generated by the work (for example a panel of wood or regenerated rubber on a wooden panel).

After positioning the drill with the core bit in the desired position (remember to check that the drill is not in hammer mode) it is crucial to mark the exact point with a pencil, then proceed to place the core bit by tilting it slightly on the paver (**figure 5**).

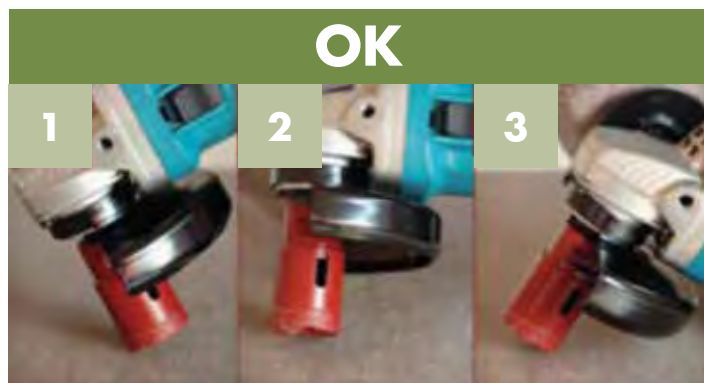


FIGURE 5



FIGURE 6

Do not place the core bit perpendicularly (**figure 6**) to the paver surface as it could lead to the breakage of the paver itself.

Once the core bit is in place and already moving, gently (and without pushing too much) make a continual and constant oscillatory movement until the hole from top to bottom thorough the paver is complete (**figure 5**).

Use a high quality core bit specific for porcelain.

By using a low quality core bit, or a core bit not specific for porcelain, the likelihood of breaking the paver during drilling operation could increase. During drilling, use of abundant water before, during, and after the drilling phase to minimize the presence or dispersion of ceramic powder and to cool down the cutter.

Once the hole has been made, clean the hole with water, in order to remove all the dust from the surface of the paver created by the drilling. It is also possible, whenever needed, to adjust the shape of the hole created with specific tools that soften the cut made by milling eventual sharp/irregular edges of the hole.

These tools are always made with artificial diamonds and should be specific for porcelain tiles and pavers.

Please find below a link to a video of 20 mm porcelain pavers drilling:

<https://www.youtube.com/watch?v=SVwzk894qdl>

GENERAL RECOMMENDATIONS.

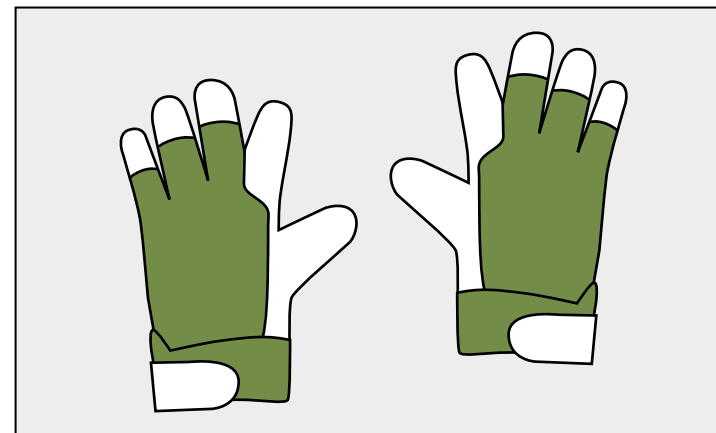
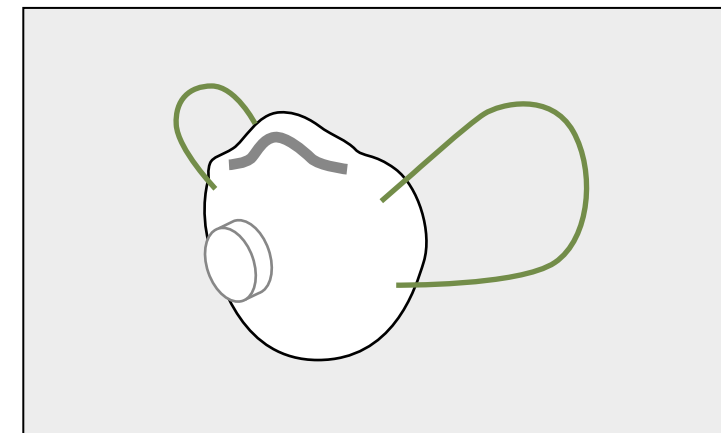
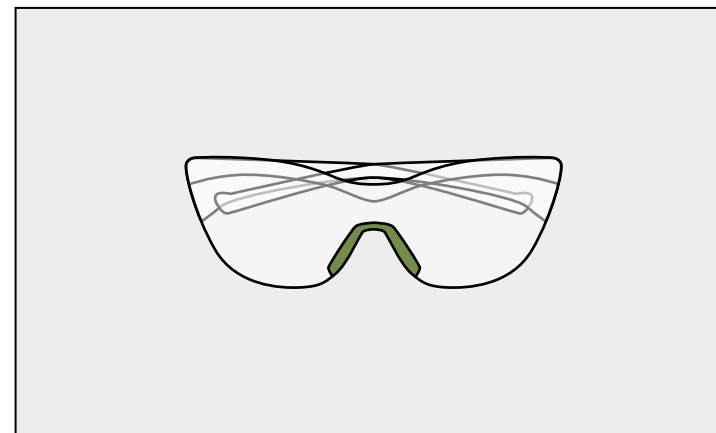
high quality tools and blades, specifically designed for porcelain. This is because 20mm thick porcelain is very strong and compact and does not behave, during cutting and drilling operations, like traditional thickness porcelain.

During cutting and/or drilling, use of abundant water before, during and after the drilling phases to minimize the presence or dispersion of ceramic powder and to cool the blade/core bit.

Use certified wet or suction tools to reduce and minimize the dispersion of ceramic powder.

Once the necessary operations are finished, it is very important to clean the surface of the tile from the dust to prevent it from being trapped by the filler needed for the joints.

Use safety glasses, mask, gloves and steel toe shoes.



CLEANING INFORMATION FOR PORCELAIN PAVERS INSTALLED OVER CONCRETE

FIRST FLOOR DEEP CLEANING AFTER INSTALLATION OVER CONCRETE

After Grouting the Joints (pic. 1) It is important to remove the excess grout with a sponge and clear water (pic. 2). After 12/48 hours, the grout in the joints will have "set up" /hardened significantly. There will be a noticeable residual "haze". Typically, a diluted acid cleaner specifically for removing "Grout Haze", combined with a soft scrubbing pad will remove the majority if not all the "Haze". Change your acid/water solution frequently for best results. It is also recommended to keep a bucket of clean water to remove the acid/water solution. It is recommended to keep and use clean dry towels to help remove as much residual water and keep the floor as dry as possible.

Please refer to the cleaning chemical company's suggested methods and dilution rates. (pic. 3). For areas with excess grout or grout that becomes adhered to the face of the tile, further cleaning with an Acid/ Water Solution may be necessary. Please refer to the Cleaning Chemical Company's instructions as not all acids or chemicals are the same.

The excess grout residue (pic. 4-5) must be removed so that it does not dry and stick on the surface. It is necessary to change the cleaning water frequently and rinse well. Care must be taken on inlayed, polished and especially Anti Slip products similar to Frontier20. The use of a floor-washing machine combined with the use of a diluted acid detergent helps reach the spaces between adjacent tiles and clean them properly. If such a cleaning procedure is not carried out, or if such cleaning is carried out too late, the grout residue creates an absorbent film, which holds dirt, making the surface difficult to clean: in this case, Architessa will not be liable for any damage caused to the surface.

ORDINARY CLEANING

Ordinary maintenance must be carried out using specialized detergents to remove stains but these detergents must not leave a wax, film or membrane residue. Rinsing well with plenty of clean water is a fundamental part of the cleaning procedure, therefore we advise against the use of products which state that they "do not need rinsing".

OTHER RECOMMENDATIONS

Bright colored products, in pArcticular white and extra-white tiles, are very delicate and, although for all intent and purpose are hygienically clean, However, they can get dirty more easily than darker tiles. It is therefore necessary to remember that these pArcticular products require careful regular maintenance. Sealers are unnecessary, especially in the case of our **Frontier20** Product line. Sealing will change the D.C.O.F. (Dynamic Co-efficient of Friction) resulting in a surface that will become more slippery. Also because Porcelain has such a low absorption the sealer will unlikely stick and most likely the sealer will flake off over time.



PIC 1. Fill joint with grout.



PIC 2. Remove excess grout with clean water.



PIC 3. Add specific acid cleaning agent for porcelain tile to clean water.



PIC 4. First floor deep cleaning after 12/48 h from installation.



PIC 5. Removal of excess grout residues with hard brush.

CLEANING AGENTS

TYPE OF STAIN	SOLUTION	DETERGENTS	MANUFACTURER
INORGANIC STAINS			
Cement Carbon Calcium Efflorescence Chalk Metallic residues Rust Cement-based grout Colored grout Wall paint	Acid	DETERGENT WITH AN ACID BASIS *	
		DETERDEK or similar	UNITED STATES > Fila Chemicals USA, Corp.10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com
		KERANET (liquid) or similar	MAPEI Americas Headquarters 1144 E. Newport Center Drive Deerfield Beach, Florida 33442
ORGANIC STAINS			
Coca Cola Ice Cream Coffee Wine Beer Animal fats Vegetable fats Mustard Mayonnaise Ketchup Jam Linseed oil Lipstick Wax	Alkaline and neutral	LIMITED FOAM TYPE PRODUCT **	
		PS87 or similar	UNITED STATES > Fila Chemicals USA, Corp.10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com
		FILACLEANER or similar	UNITED STATES > Fila Chemicals USA, Corp.10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com
		Ammonium	Universal
RESIDUAL RINGS of organic nature	Saline solution	Sodium hypochloride (bleach for white laundry)	Universal
Silicone oils Machine Oil Resins and glazes Coal and natural rubber Encres et feutres		FILASOLV or similar	UNITED STATES > Fila Chemicals USA, Corp.10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com
		Aceton	Universal
		NITRO - THINNER	Universal
		TURPENTINE	Universal
		TRICHLORETHYLENE	Universal
		CIF AMMONIACAL	Universal
Tire		HAND CLEANSER	Universal
Silicone and chewin-gum		Ice+scraper	

N.B. When using the above products, the instructions on the package should be followed.

* **Detergent with an acid base:** a detergent with an acid basis, specifically recommended after bath floor or wall installation, for the decalcifcant cleaning and the regular maintenance.

** **Limited foam type product:** a limited foam type product degreasing and general cleaning, suitable for all types of stains but especially for remove of vegetable and animals fats.

PERFORMANCE COMPARISON PORCELAIN PAVERS VS. COMPETITOR OUTDOOR PAVING MATERIALS

FEATURES	FRONTIER20 PORCELAIN PAVERS	WOOD PAVERS	CLAY BRICK	CIP (CAST IN PLACE) CONCRETE	CONCRETE PAVERS	NATURAL STONE
Stainable	No	Yes	Yes (Highly)	Yes	Yes	Yes (Highly)
Freeze Thaw Proof	Yes	No	No	No	No	No
Salt Resistant	Yes	No	Salt Will Degrade	No	No	No
Acid Resistant	Yes	No	Acid Will Burn	No	No	No
Scratch Resistant	Highly	No	Somewhat	No	No	No
Moisture Absorption	< 0,5%	Highly Varried	5%	5%	5-10%	≥ 5%
Easy To Repair	Yes	Yes	No	Can Not	No	No
Uv Resistant	Unaffected	No	Yes	If Sealed	Yes/No	Unaffected
Needs Sealed	Never	Yes	Recommended	Recommended	Recommended	Recommended
Pressure Washer Safe	> 1500 PSI	No	Not Recommended	> 1500 PSI	No	No
Environmentally Friendly	Facility 98% Green	Many Exotic Rainforest Species	No	Large Carbon Foot Print	Possible Fly Ash Content	Mined Or Imported
Recycled Content	20% In Each Paver	No	Not Possible	Not Possible	If Possible Less Than 5%	Not Possible

PHYSICAL PROPERTIES	TEST ASTM	NORTH AMERICAN STANDARD A137.1*	RESULTS
Water absorption *	C373	≤ 0.5%	COMPLY WITH ANSI A137.1
DCOF Average dynamic coefficient of friction **	BOT 3000 test	≥ 0.6	≥ 0.6
Skid Resistance	DIN 51097	-	A+B+C
	DIN 51130		R11
Resistance to freeze/thaw cycling *	C1026	As reported	RESISTANT
Resistance to thermal shock	C484	As reported	RESISTANT
Warpage (edge)	C485	Warpage ± 0.4% or ± 0.05 in	COMPLY WITH ANSI A137.1
Warpage (diagonal)	C485	Warpage ± 0.4% or ± 0.07 in	COMPLY WITH ANSI A137.1
Wedging	C502	± 0.25% or ± 0.03 in	COMPLY WITH ANSI A137.1
Chemical resistance	C650	As reported	UNAFFECTED
Resistance to stain	C1378	As reported	UNAFFECTED
Thickness	C499	Range: 0.04 in	COMPLY WITH ANSI A137.1
Breaking strength	C648	250 lbf or greater	COMPLY WITH ANSI A137.1

* Average values referred to our production and related to the matt finish of the product.

** As far as values relating to the matt finish of the product and to tests carried out by certified external laboratories whose results are available upon request at Headoffice, we are willing to check the lot you are interested in purchasing.

- Be sure to use pavers belonging to the same caliber.
- Test results are available on request.
- The information provided can be subject to change. Please refer to outdoor.landmarkceramics.com for the latest, most accurate and up-to-date information.

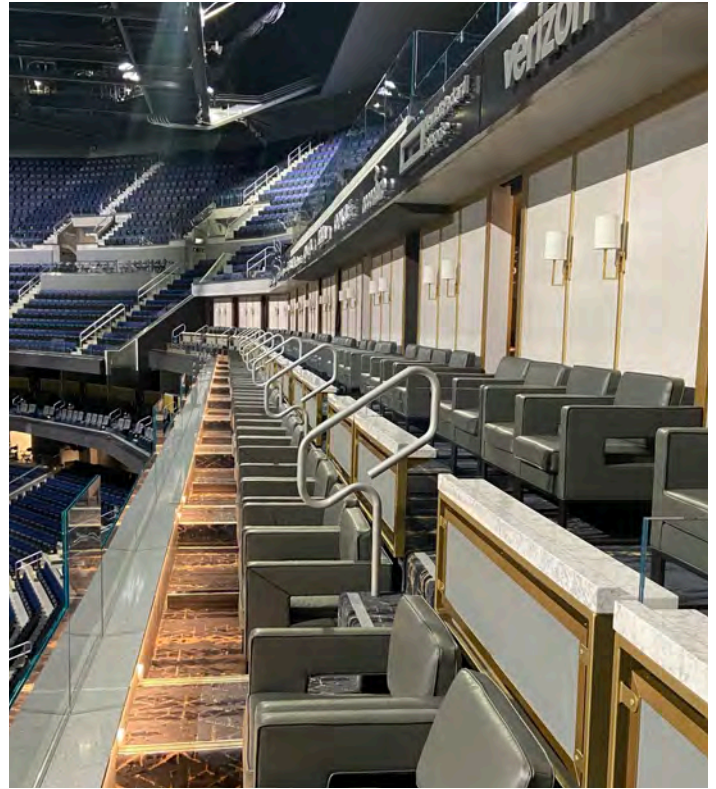
WARNINGS.

- Outdoor pavings installed unglued above the ground level are subject to the action of the wind, with the risk, in some cases, of becoming airborne. The manufacturer recommends to require the assistance of a qualified professional in order to check the suitability of the installation system above the ground adopted, in accordance with the local laws and regulations and the conditions of use. Failure to do so could result in serious injury or property damage.
- If the application of the 20 mm slabs requires the ceramic product used in structural installations, the project engineer and/or customer must carefully assess the project requirements with regard to the technical specifications of the slabs. To prevent the risk of damage or injury, the manufacturer recommends: with regard to a raised floor installation a ceramic slab may fracture on impact if a heavy object falls on it from any significant height. Therefore the manufacturer recommends to check the specific intended use before starting the installation and to follow table for raised installation provided below. In certain conditions, reinforcing must be applied on the back of the slabs (double fiberglass mesh) supplied and applied by the manufacturer; with reference to any dry installation system of flooring above the ground level, the manufacturer recommends to comply with local regulations and conditions of use with regard to wind-load, loadbearing, seismic events, etc. Failure to comply with these recommendations may lead to improper use of the product and could cause serious damage or injury. Failure to adhere to the manufacturer's instructions for installation of slabs on raised pedestal systems may result in serious injury.
- For further information and recommendations concerning the installation systems please refer to outdoor.landmarkceramics.com website.



Griprail™ pipe and tube railing system is designed and constructed using round pipe and tube providing a graspable handrail for stairs, ramps and crowd control applications. A variety of materials, finishes and colors are available to meet your project requirements.





Specifications

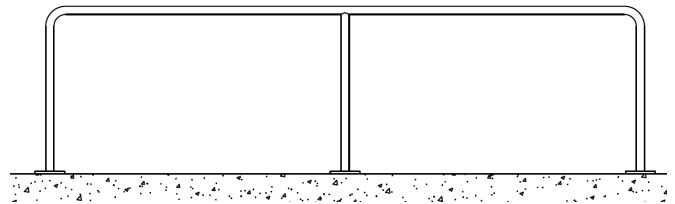
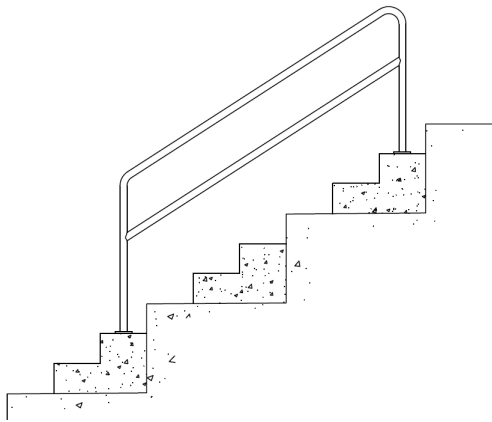
Material:	Aluminum, Stainless Steel, Steel
Finishes:	Aluminum: Anodized/High Performance Coatings/Architectural Powder Coat Stainless Steel: Brushed/Polished Steel: Galvanized/High Performance Coatings/Architectural Powder Coat
Height:	34" - 38" - A.F.F.
Post Spacing:	Variable (centered on steps)
Mount Type:	Top, Fascia, or Wall mount
Top Rail:	Round pipe (Typical)
Post:	Round pipe (matches top rail material)
Corners:	Bent/eased or mitered

*Custom Options Available

Aisle Rail



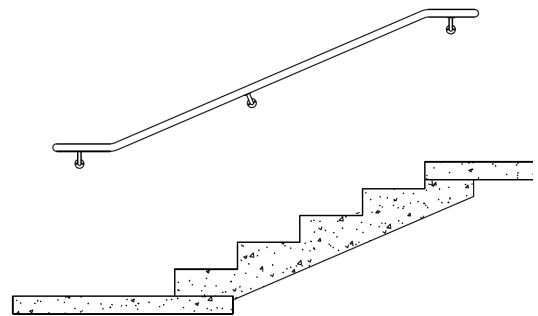
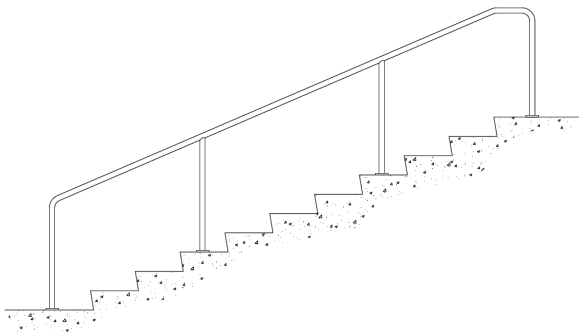
Courtesy Rail



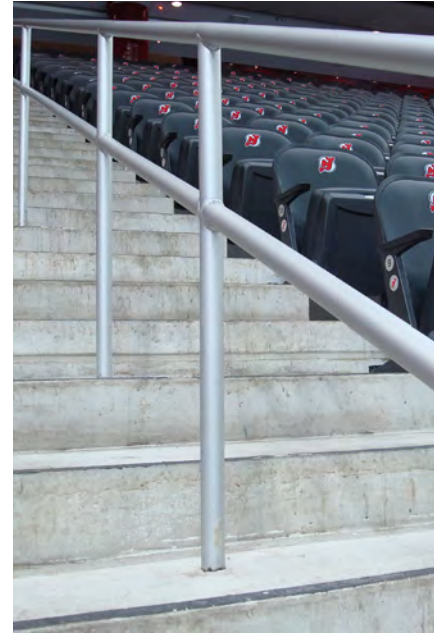
Center Handrail



Wall Handrail



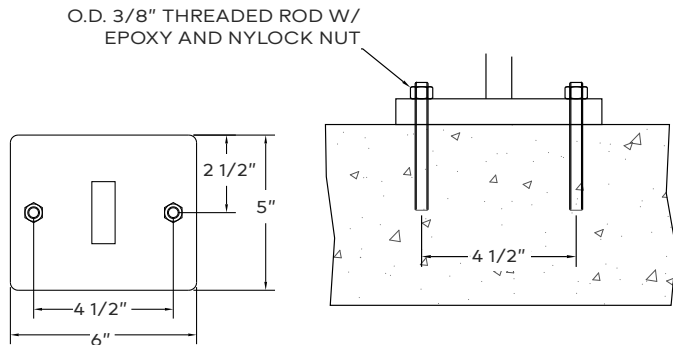
Top Mount



Fascia Mount

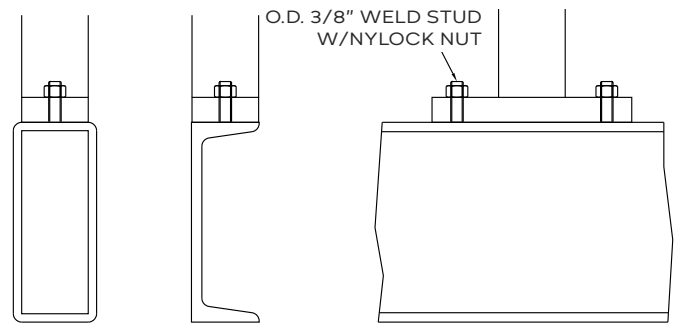


Pipe & Tube Handrail Top Mount Base Plate



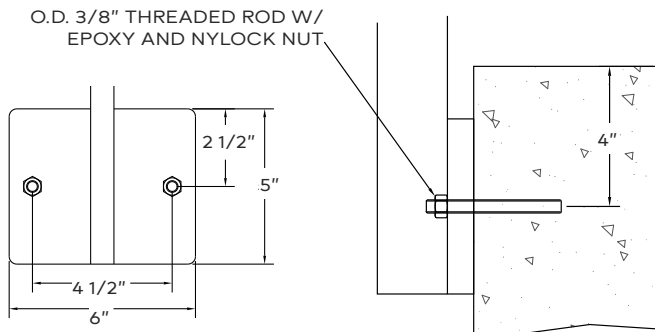
Dimensions dependent on geometry.

Stringer Mount



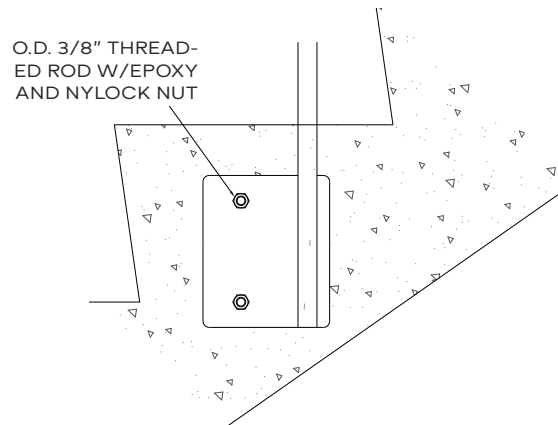
Dimensions dependent on geometry.

Fascia Mount Base Plate



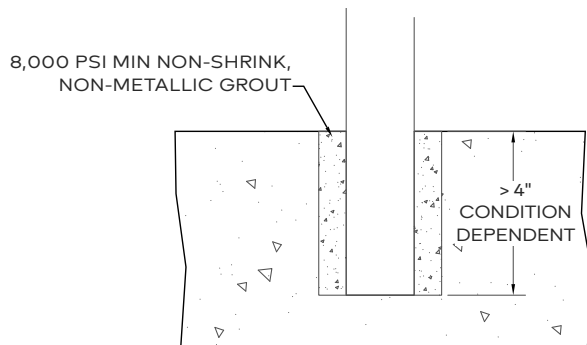
Dimensions dependent on geometry.

Fascia Mount Stair Base Plate



Dimensions dependent on geometry.

Core Mount



Notes:

Handrails can be mounted to concrete or steel.

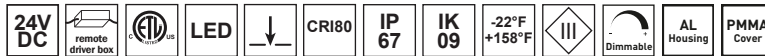
Anchor size/Type may vary due to field conditions.



date	
customer	
project	L4
quantity	

- . Continuous light for paths and squares
- . Homogenous light without visible dots
- . Linear rigid body
- . Protection class IP67
- . Small dimensions
- . Easy serial connection

SLIM GROUND LINER



Family	Model / Length		Color temp		Driver	Input voltage		Run Length
SGL								
	7101211	39.4in 1000	/80/2K8	2800K	N	NON-DIM	24 24VDC input 120/227V	*** advise on run length
	7101212	29.5in 750	/80/4K	4000K	A	0-10V		
	7101213	19.7in 500	/80/5K5	5500K	D	DMX		
	7101214	*9.84in 250	/11	**RGB				

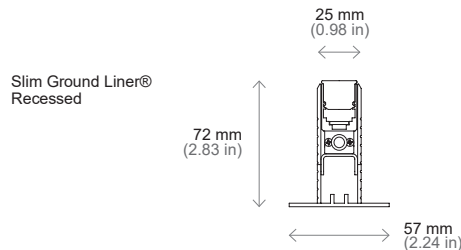
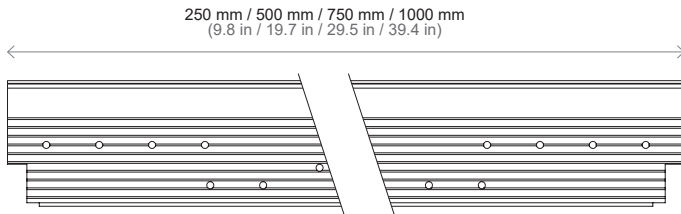


example...

Family	Model / Length	Color temp	Driver	Input voltage
SGL	7101211 39.4in 1000	/80/2K8 2800K	A	24

Notes:

- (*) only suitable for end of the run
- (**) only available for sizes 3 (19.7") & 1 (39.4")
- (***) max continuous run cannot exceed 96 watts



SLIM GROUND LINER

Slim Ground Liner® 1000							
(with recessed box)							
Measures	25 x 72 x 1000 mm						
Weight	2,1 kg						
Color temperatures	2800K	4000K	5500K	Amber	Red	Blue	RGB
Power	11.6 W	11.6 W	11.6 W	5.8 W	5.8 W	11.6 W	22 W
Lumens output	253 lm	270 lm	310 lm	63 lm	32 lm	28 lm	275 lm
N° LEDs	120 LEDs	120 LEDs	120 LEDs	120 LEDs	120 LEDs	120 LEDs	90 LEDs
Luminaire efficiency	32 lm/W	34 lm/W	39 lm/W	11 lm/W	6 lm/W	4 lm/W	13 lm/W

Slim Ground Liner® 750							
(with recessed box)							
Measures	25 x 72 x 750 mm						
Weight	1,6 kg						
Color temperatures	2800K	4000K	5500K	Amber	Red	Blue	RGB
Power	8.7 W	8.7 W	8.7 W	4.4 W	4.4 W	8.7 W	Not available No disponible
N° LEDs	90 LEDs	90 LEDs	90 LEDs	90 LEDs	90 LEDs	90 LEDs	
Lumens output	190 lm	203 lm	240 lm	48 lm	24 lm	21 lm	
Luminaire efficiency	32 lm/W	34 lm/W	39 lm/W	11 lm/W	5 lm/W	4 lm/W	

Slim Ground Liner® 500							
(with recessed box)							
Measures	25 x 72 x 500 mm						
Weight	1,1 kg						
Color temperatures	2800K	4000K	5500K	Amber	Red	Blue	RGB
Power	5.8 W	5.8 W	5.8 W	2.9 W	2.9 W	5.8 W	11 W
N° LEDs	60 LEDs	60 LEDs	60 LEDs	60 LEDs	60 LEDs	60 LEDs	45 LEDs
Lumens output	125 lm	131 lm	153 lm	32 lm	16 lm	14 lm	134 lm
Luminaire efficiency	31 lm/W	33 lm/W	39 lm/W	11 lm/W	6 lm/W	4 lm/W	12 lm/W

Slim Ground Liner® 250							
(with recessed box)							
Measures	25 x 72 x 250 mm						
Weight	0,6 kg						
Color temperatures	2800K	4000K	5500K	Amber	Red	Blue	RGB
Power	2.9 W	2.9 W	2.9 W	1.5 W	1.5 W	2.9 W	Not available No disponible
N° LEDs	30 LEDs	30 LEDs	30 LEDs	30 LEDs	30 LEDs	30 LEDs	
Lumens output	62 lm	67 lm	78 lm	16 lm	8 lm	6 lm	
Luminaire efficiency	31 lm/W	34 lm/W	39 lm/W	11 lm/W	6 lm/W	4 lm/W	

Streetscape Elements

TRASH CAN

Description

Trash can - black in color; style to match Old Town Square can or City Park can
Recycling can - blue in color; style to match Old Town Square can or City Park can

Style

- Side opening
- Logo banding optional

Size

- 24" diameter
- 39" height
- 36 gallon side-opening, stainless steel hinge and latch, surface mounted

Materials and Color

- Cast aluminum, spun aluminum top
- Cast iron base
- Stainless steel fasteners
- Matte Black for trash; blue for recycling
- Polyester powder-coat

Location and Setbacks

- Minimum 24 inches setback from face of curb
- Do not exceed 1 receptacle (or 2 if waste/recycling combination) per 300 linear feet (LF) of streetscape

Requirements

- Landscape Forms Chase Park Litter and Recycling Receptacles or equal
- Global Industries Outdoor Steel with Rain lid or equal

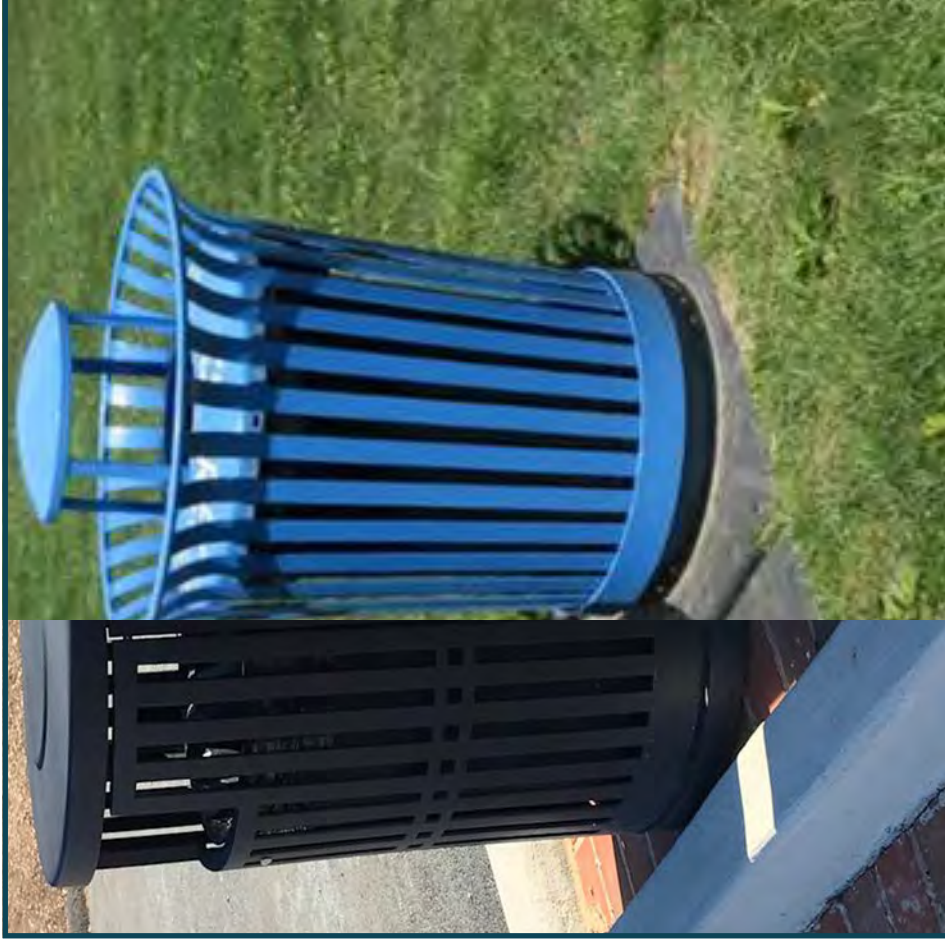
Sources

Landscape Forms, Inc.
7800 E. Michigan Ave.
Kalamazoo, MI 49048
www.landscapeforms.com

Keystone Ridge Designs, Inc.
670 Mercer Road
Butler, PA 16001
www.keystoneridgedesigns.com

Victor Stanley
PO Drawer 330
Dunkirk, MD 20754
www.victorstanley.com

Global Industrial
1.888.978.7759
www.globalindustrial.com



City of Fairfax trash can at Old Town Square, left and recycling trash can from City Park, right

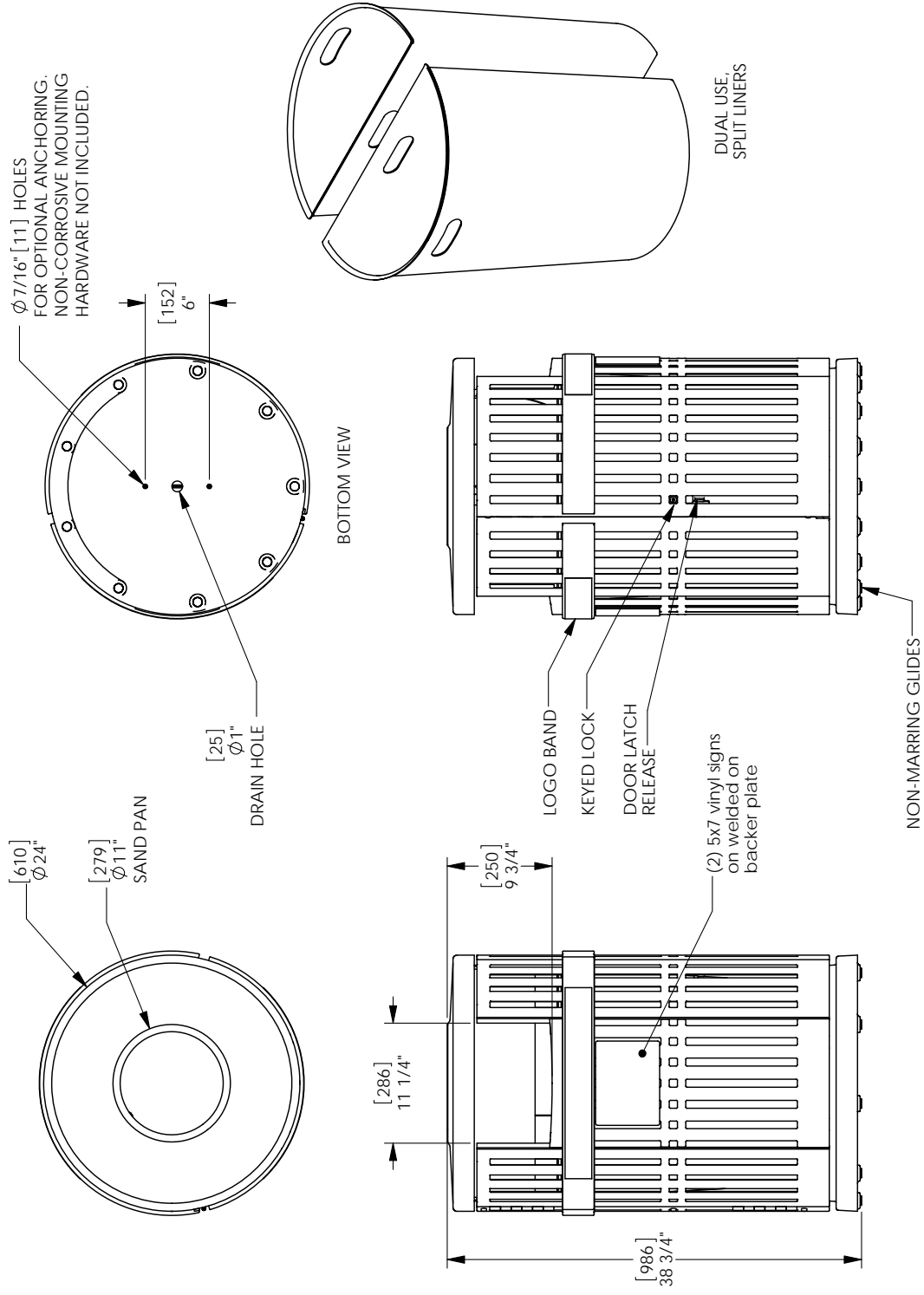
L5

Streetscape Elements

Chase Park®
Product Drawing

Side Opening Litter Receptacle, Dual use, with sand pan, logo band, lock, 2 standard 5x7 signs

www.landscapeforms.com
Date: 7/17/2014
Ph: 800.521.2546



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Drawing: CP362-16
Dimensions are in inches [mm]
U.S. Patent Nos.: D472,357; D481,507; D489,502

landscapeforms

RETURN TO TOC

OLD TOWN FAIRFAX HISTORIC OVERLAY DISTRICT STREETScape STANDARDS

Streetscape Elements

BENCH

Description

Benches to match those located in Old Town Square

Style

- Slatted seat back and seat
- End armrests, optional center armrest,
- Plaque can be included

Size

- Six foot length

Materials and Color

- Powder-coated metal
- Black

Location and Setbacks

- 36" minimum setback from face of curb
- Minimum 1 bench per 350 linear feet (LF)/2 per block where space permits
- Bench face to be determined dependent upon site conditions

Requirements

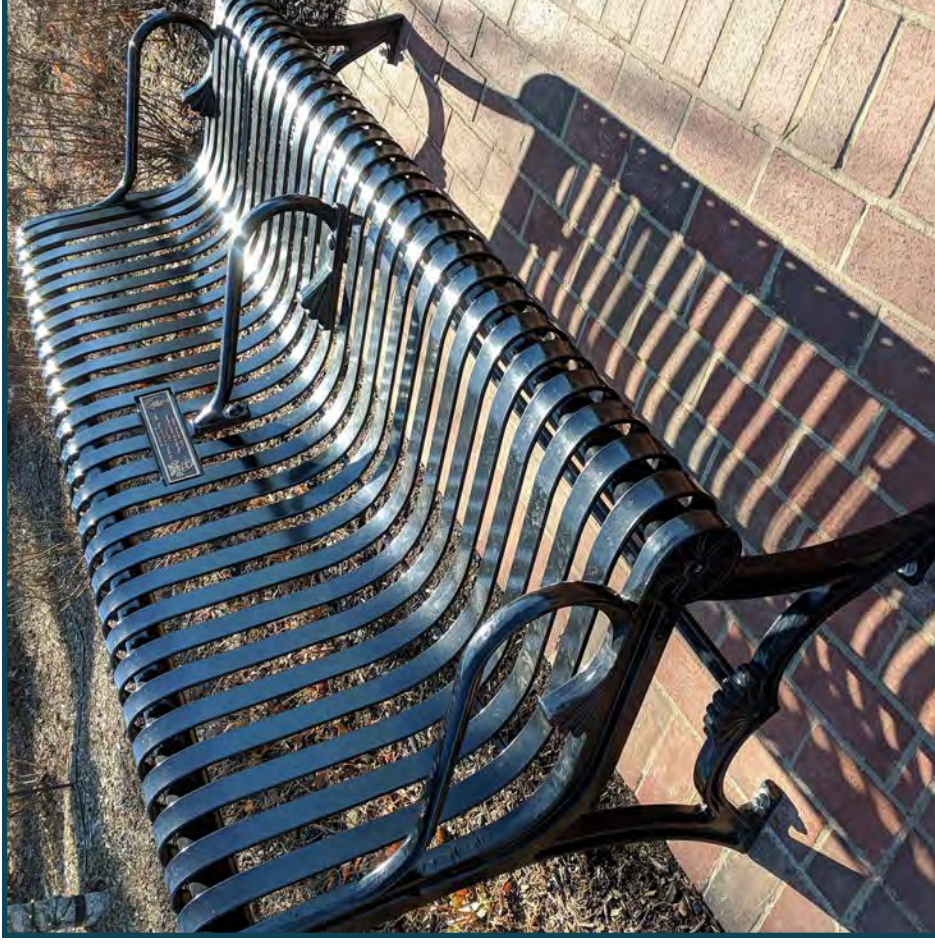
- DuMor Site Furnishings, Bench 58 or equal
- Anchor with pin in footer located beneath paving surface

Sources

DuMor Site Furnishings
Bench 58, with optional mid-arm
P.O. Box 142
Mifflintown, PA 17059
www.dumor.com

Landscape Forms, Inc.
Scarborough Bench
7800 E. Michigan Ave.
Kalamazoo, MI 49048
www.landscapeforms.com

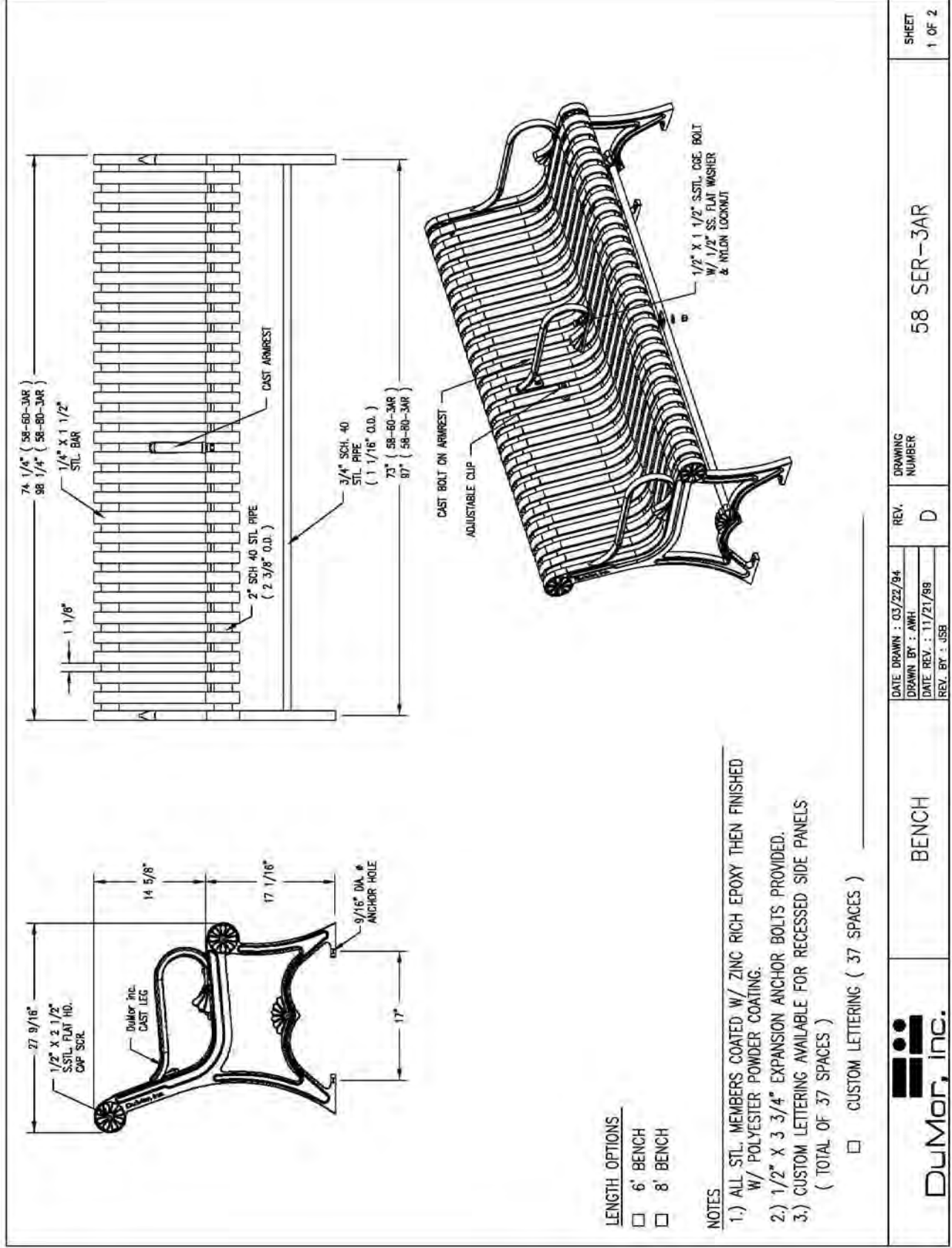
Keystone Ridge Designs, Inc.
Schenley Bench
670 Mercer Road
Butler, PA 16001
www.keystoneridgedesigns.com



City of Fairfax bench in Old Town Square

6

Streetscape Elements



LENGTH OPTIONS

- 6' BENCH
- 8' BENCH

NOTES

- 1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
- 2.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.
- 3.) CUSTOM LETTERING AVAILABLE FOR RECESSED SIDE PANELS (TOTAL OF 37 SPACES)

CUSTOM LETTERING (37 SPACES)



BENCH

DATE DRAWN : 03/22/94
 DRAWN BY : AMH
 DATE REV. : 11/21/89
 REV. BY : USB

REV. D

DRAWING NUMBER
 58 SER-3AR

SHEET
 1 OF 2

Streetscape Elements

<p>① ATTACH STL. SEAT & PIPE BRACE TO CAST IRON BENCH SUPPORTS.</p> <p>REMOVE 1/2" X 2" HEX HEAD BOLT AND SHIPPING BRACE AND DISCARD</p>	<p>PARTS LIST</p> <table border="1"> <thead> <tr> <th>ITEM</th> <th>QTY</th> <th>PART NO</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>0-57-00-02</td> <td>CAST IRON BENCH SUPPORT</td> </tr> <tr> <td>2</td> <td>1</td> <td>0-57-60-04</td> <td>71 3/4" PIPE BRACE</td> </tr> <tr> <td>3</td> <td>1</td> <td>0-58-00AR-03</td> <td>CAST IRON BOLT ON ARMREST</td> </tr> <tr> <td>4</td> <td>2</td> <td>0-58-00AR-04</td> <td>ARMREST BOLT CLIP MACHINED</td> </tr> <tr> <td>5</td> <td>1</td> <td>0-58-60-01</td> <td>6" STL SEAT</td> </tr> <tr> <td>6</td> <td>2</td> <td>1-11-042</td> <td>1/2" X 1 1/2" SS COE BOLT</td> </tr> <tr> <td>7</td> <td>8</td> <td>1-12-065</td> <td>1/2" X 2 1/2" FLT SKT HD CAP SCR</td> </tr> <tr> <td>8</td> <td>2</td> <td>1-20-015</td> <td>1/2" SS NYLON LOCKNUT</td> </tr> <tr> <td>9</td> <td>2</td> <td>1-22-015</td> <td>1/2" SS FLAT WASHER</td> </tr> </tbody> </table> <p>KITS PROVIDED</p> <table border="1"> <thead> <tr> <th>ITEM</th> <th>QTY</th> <th>PART NO</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>1</td> <td>K-ANCD860-4</td> <td>1/2" X 3 3/4" SS ANCHOR KIT (4PC)</td> </tr> <tr> <td>11</td> <td>1</td> <td>K-CO0824-2L</td> <td>1/2" COE BOLT HARDWARE KIT (2PC)</td> </tr> <tr> <td>12</td> <td>1</td> <td>K-F00840-6</td> <td>1/2" CAP HARDWARE KIT (6PC)</td> </tr> </tbody> </table>	ITEM	QTY	PART NO	DESCRIPTION	1	2	0-57-00-02	CAST IRON BENCH SUPPORT	2	1	0-57-60-04	71 3/4" PIPE BRACE	3	1	0-58-00AR-03	CAST IRON BOLT ON ARMREST	4	2	0-58-00AR-04	ARMREST BOLT CLIP MACHINED	5	1	0-58-60-01	6" STL SEAT	6	2	1-11-042	1/2" X 1 1/2" SS COE BOLT	7	8	1-12-065	1/2" X 2 1/2" FLT SKT HD CAP SCR	8	2	1-20-015	1/2" SS NYLON LOCKNUT	9	2	1-22-015	1/2" SS FLAT WASHER	ITEM	QTY	PART NO	DESCRIPTION	10	1	K-ANCD860-4	1/2" X 3 3/4" SS ANCHOR KIT (4PC)	11	1	K-CO0824-2L	1/2" COE BOLT HARDWARE KIT (2PC)	12	1	K-F00840-6	1/2" CAP HARDWARE KIT (6PC)
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<p>①A</p> <p>PLACE SEAT ASSEMBLY ON WORK SURFACE ALLOWING ACCESS TO ENDS. PLACE RATCHET STRAP AROUND SEAT ASSEMBLY AS SHOWN ABOVE.</p>	<p>NOTES:</p> <ol style="list-style-type: none"> 1.) DURING ASSEMBLY PROCEDURE, DO NOT COMPLETELY TIGHTEN HARDWARE. THE ACTUAL PARTS WILL NOT BE NUMBERED. NUMBERS ONLY APPLY TO DRAWING. 2.) UPON COMPLETION OF ASSEMBLY SQUARE ALL COMPONENTS THEN TIGHTEN ALL HARDWARE. MOUNT AND ANCHOR AS SPECIFIED. <p>TOOLS REQ'D</p> <p>3/4" WRENCH 5/16" ALLEN WRENCH 1/2" MASONRY DRILL BIT DRILL RATCHET STRAP (PROVIDED)</p>																																																								
<p>①B</p> <p>TIGHTEN STRAP UNTIL SHIPPING BRACKET BECOMES LOOSE. THEN REMOVE AND DISCARD BOLTS & SHIPPING BRACKET.</p>	<p>② ATTACH CAST IRON ARMREST TO STEP 1.</p>																																																								
<p>①C</p> <p>ATTACH CAST SUPPORT TO SEAT ASSEMBLY. IF HOLES IN CASTING DO NOT ALIGN WITH THE SEAT ASSEMBLY, ADJUST BY USING THE RATCHET STRAP.</p>	<p>ASSEMBLY INSTRUCTIONS</p> <p>DATE DRAWN : 11/21/99 DRAWN BY : JSB DATE REV. : 00/00/00 REV. BY : XXX</p> <p>REV. A</p> <p>DuMor, inc.</p> <p>58 SER-3AR</p> <p>DRAWING NUMBER</p> <p>SHEET 2 OF 2</p>																																																								

Streetscape Elements

BICYCLE RACK

Description

Simple bike rack, located parallel to curb or building face and suitable for supporting two bicycles

Style

- Simple hoop, minimum 2 bike capacity

Size

- Approximately 1'-8" high (above grade)
- Approximately 1'-2" wide

Installation

- In ground mount embedded in concrete base

Materials and Color

- Powder-coated metal
- Black or 304 grade stainless steel finish

Location and Setbacks

- Parallel to wall: 24" minimum setback from wall, 36" recommended
- Parallel to curb: 36" minimum setback from face of curb

Requirements

- Dero Hoop Bicycle Rack or equal; embedded mounting

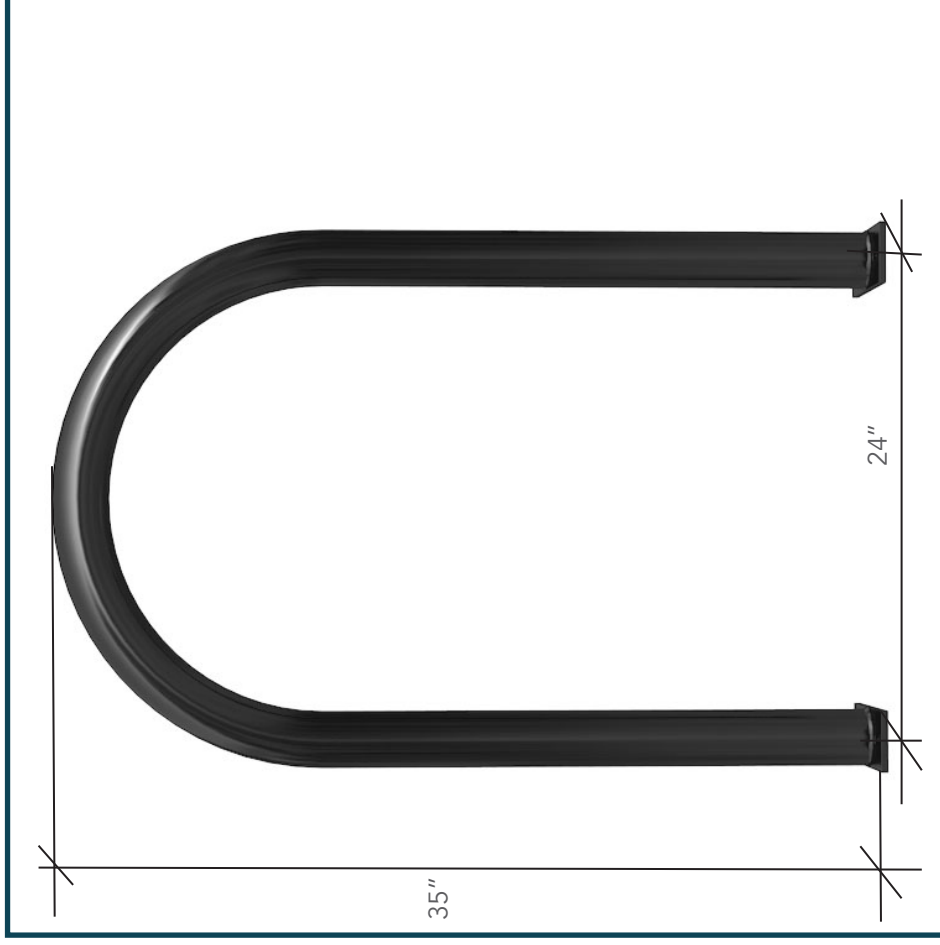
Sources

Dero
Hoop Bicycle Rack
52 Northern Stacks Drive
Minneapolis, MN 55421
www.dero.com

Landscape Forms, Inc.
Bolo Bicycle Rack, embedded mounting
431 Lawndale Ave.
Kalamazoo, MI 49048

The Park and Facilities
Catalog
www.parkcatalog.com

Belson Outdoors, LLC.
627 Amersale Dr.
Naperville, IL 60563



Bike rack

Photo Credit: Dero



Streetscape Elements

GUIDE SPECIFICATIONS FOR THE DERO HOOP BIKE RACK

SECTION 02871 BIKE RACKS

These specifications were current at the time of publication but are subject to change at any time without notice. Please confirm the accuracy of these specifications with the manufacturer and/or distributor prior to installation.

PART 1 GENERAL

1.1 Summary

- A. This section includes specifications for the Hoop Bike Rack.

1. Bikes parked per unit: 2

1.2 Quality Assurance

- A. Installer Qualifications: An experienced installer who has completed installation of bicycle racks similar in material, design, and extent to that indicated for this project and whose work has resulted in construction with a record of successful in-service performance.
- B. Manufacturer Qualifications: A firm experienced in manufacturing bicycle racks similar to those required for this project and with a record of successful in-service performance.
- C. Source Limitations: Obtain each color, finish, shape and type of bicycle rack from a single source with resources to provide components of consistent quality in appearance and physical properties.
- D. Product Options: Drawings indicate size, shape and dimensional requirements of bicycle racks and are based on the specific system indicated.

1.3 Submittals

- A. Product Data: Include physical characteristics such as shape, dimensions, bicycle, material parking capacity and finish for each bicycle rack.
- B. Shop Drawings: Show installation details for each bicycle rack.
- C. Samples for Verification: Submit finish samples for review and verification.
- D. Maintenance Data: For each bicycle rack.
 1. Include recommended methods for repairing damage to the finish.

1.4 Delivery, Storage and Handling

- A. Upon delivery, before signing for shipment, inspect for any damages and notate on the B.O.L.
- B. Store bicycle racks in original undamaged packages and containers until ready for installation. Handle bicycle racks with sufficient care to prevent any scratches or damage to the finish.

PART 2 PRODUCTS

2.1 Acceptable Manufacturers

- A. Provide bicycle racks manufactured by DERO BIKE RACK CO., 42 Northern Stacks Drive, Suite 100, Minneapolis, MN 55421, 1-888-337-6729. Fax: 612-331-2731
Website: www.dero.com

2.2 Materials

- A. 1.5" schedule 40 uncoated pipe (1.90" OD)
- B. Installation Methods: In-ground mount is embedded into concrete base. Flange mount has two 2.5" x 6" x .25" feet - 4 anchors. In-ground mount, foot mount, and rail mount models are available.
- C. Rail Racks: Hoops are bolted to two parallel rails. Hoops can be left free standing or anchored to the ground. See Rail Racks section below. Rail material is AISI C3 x 4.1 steel channel.

2.3 Finishes

- A. A hot-dipped galvanized finish performed after fabrication is standard.
- B. Over 250 high quality TGIC powder-coated colors are available from Dero Bike Rack Co.
 1. A TGIC powder coat finish is available.
 2. For powder coated/ painted racks, the following specifications are required: Part is prepared for painting with hard sandblasting. An epoxy primer is electrostatically applied. A final TGIC, UV resistant polyester powder coat is applied. Final coating mil thickness shall be no less than 6 mils.
- C. A 304 grade stainless steel finish is also available. Either a satin #4 finish or high luster electropolish finish. Both finish options include the Spectra Shield finish for maximum corrosion protection.
- D. Six durable thermoplastic colors are available.
- E. A rubbery PVC dip is available in many colors. Black is standard.

2.4 Hoop Bike Rack

- A. Setbacks

1. Wall Setback: For Hoops set parallel to the wall, a minimum of 24" should be left between the wall and the rack. 36" is the recommended setback. For Hoops installed perpendicular to the wall, a 28" setback is the minimum distance. 36" is recommended.
2. Distance Between Racks: 24" is the minimum distance between racks. 36" is recommended.
3. Street Setback: 24" is the minimum distance between the street and the rack. 36" is recommended.
4. The foot-mounted Hoop Rack has a 2.5" x 6" x .25" foot which is installed onto a concrete base with 4 masonry anchors. The foot-mounted Hoop Rack is generally less expensive to install and easier to remove than the in-ground mount model, while still maintaining the same degree of security.

- C. Rail Racks

Streetscape Elements

1. Rail-mounted Hoops are standard foot-mounted Hoop Racks attached with bolts to a rail in the configurations from 3 to 7 Hoops. Rail racks provide more flexibility than mounted racks, but still provide the same degree of security.
2. Rail-mounted Hoops can be left either free-standing or can be anchored to the ground using several anchors. This portability allows for easy snow-removal or sweeping. It also means installation is much less expensive than imbedded bike racks.
3. The Advantages to rail-mounted racks are:
 1. Easier and inexpensive installation
 2. Can be left freestanding or anchored to the ground
 3. Can be easily removed
4. Rail Racks are commonly used where snow removal/sweeping is an issue, or when no suitable base material is available.

PART 3 EXECUTION

3.1 Installation

- A. Installation Method
 1. In ground mount
 2. Surface mount
 3. Rail-mounted (free standing)
 4. It is the responsibility of the installer to ensure that all base materials into which the rack will be installed can support the rack and will not be damaged by any required installation procedures.

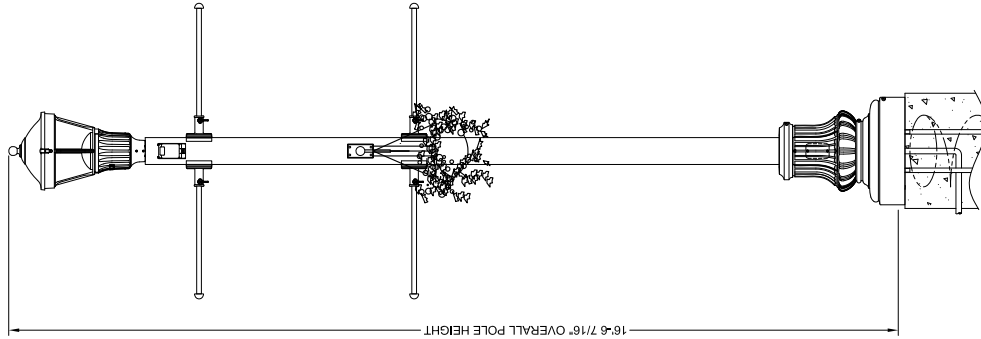
3.2 Ordering Information

- A. When ordering or specifying this rack, make sure the product type, finish and fastener type (if applicable) are included. Contact your Dero representative for a current price list or to place an order.
- B. Included in the price is either a hot-dipped galvanized finish, a TGIC powder coat finish, or a stainless steel finish. The foot-mounted and Rail Rack Hoops include 4 wedge anchors or concrete spikes.

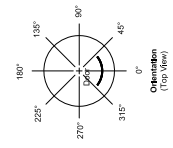
3.3 Freight

- A. Call 1-888-337-6729 for freight quotes.

Streetscape Elements



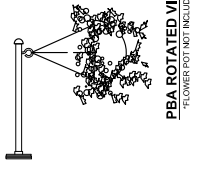
CUSTOMER NOTES:
 1. CUSTOMERS MUST VERIFY ACCESSORY HEIGHTS & ORIENTATIONS BELOW DURING APPROVAL AND MUST BE PROVIDED PRIOR TO PRODUCTION. MAY BE ROTATED IN DRAWING VIEW FOR CLIENT'S SUBMITTAL TO ACCOMPANY PO.
 2. APPROVED AND COMPLETED SUBMITTAL TO ACCOMPANY PO.



Accessory Mounting Detail

BANNER ARMS	Orientation	Height
BANNER ARMS	90°	9'-0" & 14'-0"
BANNER ARMS	270°	9'-0" & 14'-0"
PLANTER ARM	0°	10'-0"
RECEPTACLE	0°	13'-6"

NOTE: Confirm banner arm mounting height with City of Fairfax prior to production; current banner length is 48".



Customer #:
 Pkts: 1400505854-373-GFL-PROVS-WA24CSB-BK RFD296489
 Anchor Bolts: LEX1*ABSET RFD296489
 Banner Arms: (M)A24B0H8BK
 Planter Arm: PBA18B0H4BK-EB RFD296489
 Plants: P1UEZ. (Please see sales rep for standard luminaire cut sheet.)
Customer Signature & Date:

TITLE: S ASSEMBLY	QTY: 27
MODEL NO.: 1400505854H (A14336)	DWN BY: HJT/MAB
MATERIAL: ALUMINUM ALLOY	CHK'D BY:
FINISH: POWDER PAINT- HOLOPHANE BLACK LAVA	APPR BY:
PROJECT: CITY OF FAIRFAX - LARDNER KLEIN	DATE: 12/11/18
DRG NO.: RFD296489, DR16154	DWG NO.:
SHR TO:	WAG: SQ011140
P.O. NO.: 2400-18-10030-4	MAS:
REP.: MEGAN FALCONE	PAGE:
REV DATE	REVISION DESCRIPTION
	BY 3 / 3

****CONFIDENTIAL****
 The information contained in this drawing is privileged and confidential. Its disclosure or dissemination of this drawing may be subject to legal restriction or sanction.

Maximum effective projected area - 38 lbs
 Maximum effective projected area - 1.38 sq. ft.

COVER LATCH BALL STYLE FINIAL OPTICAL ASSEMBLY HINGED DOOR HOUSING

LUMINAIRE HOUSING SET SCREWS SUP FITTER FOR NOMINAL 3" Ø TENDON

UTILITY POSTOP LED® Series Luminaire

DECORATIVE OUTDOOR

HOLOPHANE LEADERS IN LIGHTING SOLUTIONS
 3825 COLUMBUS RD., GAITHERSBURG, MD 20878
 800.450.2800

ORDERING INFORMATION:

HOUSING STYLE: P10 = LED PERFORMANCE PACKAGE P20 = LED PERFORMANCE PACKAGE P30 = LED PERFORMANCE PACKAGE P40 = LED PERFORMANCE PACKAGE P50 = LED PERFORMANCE PACKAGE

COLOR TEMPERATURE: 27K = 2700 K CCT 30K = 3000 K CCT 40K = 4000 K CCT 50K = 5000 K CCT

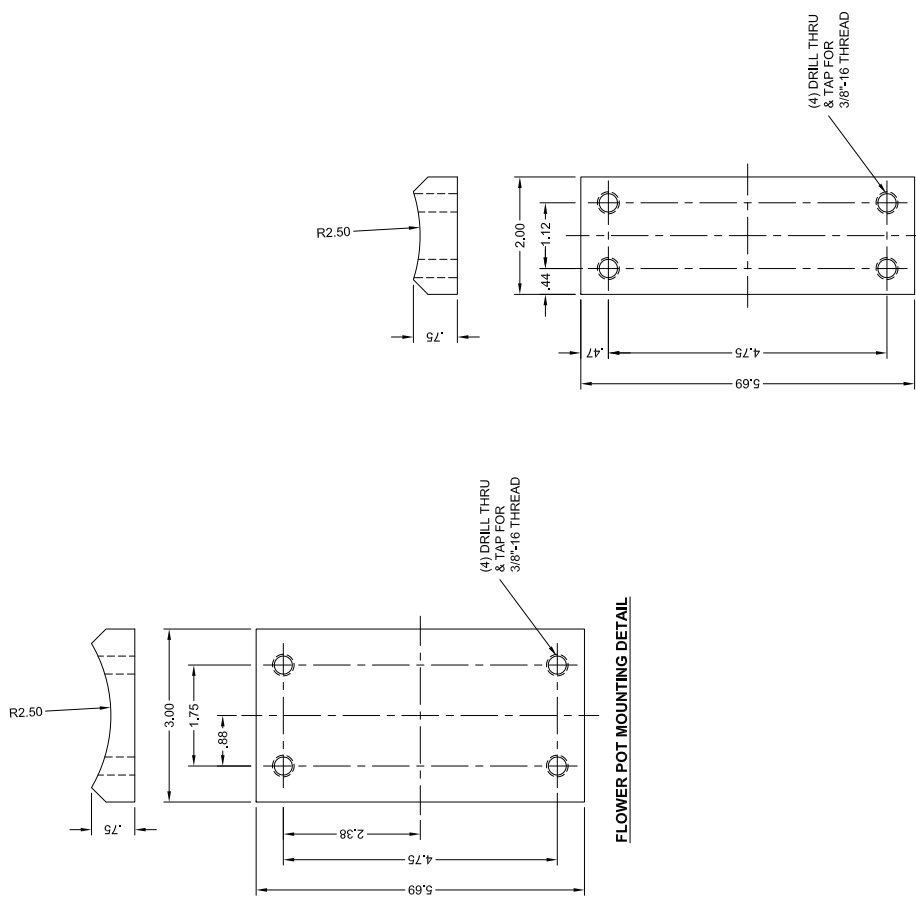
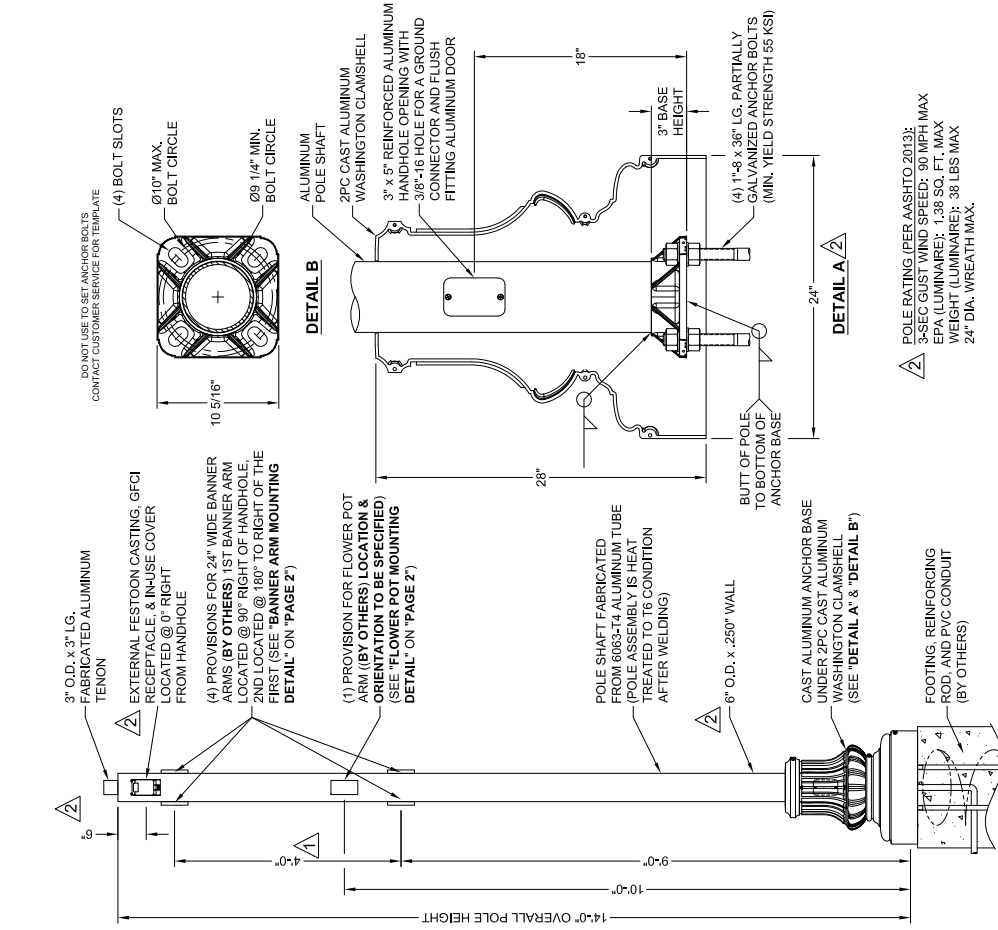
VOLTAGE: AS = AUTODIMMING (120-277V 50/60 HZ) AH = 120V (120V 50/60 HZ) AP = 120V (120V 50/60 HZ) AT = 240V (240V 50/60 HZ)

OPTICS: ACRYLIC REFRACTOR A13 = TYPE 3 A14 = TYPE 3 GLASS REFRACTOR G13 = TYPE 3 G14 = TYPE 3 POLYCARBONATE REFRACTOR P13 = TYPE 5 P14 = TYPE 5

LED PERFORMANCE PACKAGE (SEE PERFORMANCE DATA TABLE FOR DETAILS - PAGE 2):
 P10 = LED PERFORMANCE PACKAGE
 P20 = LED PERFORMANCE PACKAGE
 P30 = LED PERFORMANCE PACKAGE
 P40 = LED PERFORMANCE PACKAGE
 P50 = LED PERFORMANCE PACKAGE

FINIAL: B = BALL B2 = BRONZE B3 = BRONZE B4 = BRONZE B5 = BRONZE B6 = BRONZE B7 = BRONZE B8 = BRONZE B9 = BRONZE B10 = BRONZE B11 = BRONZE B12 = BRONZE B13 = BRONZE B14 = BRONZE B15 = BRONZE B16 = BRONZE B17 = BRONZE B18 = BRONZE B19 = BRONZE B20 = BRONZE B21 = BRONZE B22 = BRONZE B23 = BRONZE B24 = BRONZE B25 = BRONZE B26 = BRONZE B27 = BRONZE B28 = BRONZE B29 = BRONZE B30 = BRONZE B31 = BRONZE B32 = BRONZE B33 = BRONZE B34 = BRONZE B35 = BRONZE B36 = BRONZE B37 = BRONZE B38 = BRONZE B39 = BRONZE B40 = BRONZE B41 = BRONZE B42 = BRONZE B43 = BRONZE B44 = BRONZE B45 = BRONZE B46 = BRONZE B47 = BRONZE B48 = BRONZE B49 = BRONZE B50 = BRONZE B51 = BRONZE B52 = BRONZE B53 = BRONZE B54 = BRONZE B55 = BRONZE B56 = BRONZE B57 = BRONZE B58 = BRONZE B59 = BRONZE B60 = BRONZE B61 = BRONZE B62 = BRONZE B63 = BRONZE B64 = BRONZE B65 = BRONZE B66 = BRONZE B67 = BRONZE B68 = BRONZE B69 = BRONZE B70 = BRONZE B71 = BRONZE B72 = BRONZE B73 = BRONZE B74 = BRONZE B75 = BRONZE B76 = BRONZE B77 = BRONZE B78 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Streetscape Elements



TITLE: S ANCHOR BASE POLE		QTY: 27	DATE: 12/11/18
MODEL NO.: 1400505854H (A14338)		OWN BY: HJT/MAB	DWG NO.: TSG011140
MATERIAL: ALUMINUM ALLOY		CHKD BY:	PTG:
FINISH: POWDER PAINT- HOLOPHANE BLACK LAVA		APPR BY:	REV: 1/3
PROJECT: CITY OF FAIRFAX- LARDNER KLEIN		DATE: 12/11/18	DESCRIPTION:
DRG NO.: RFD250446, DR 16154		REV:	
SHR NO.: 2400-18-10030-4			
P.O. NO.: 2400-18-10030-1			
REP.: MEGAN FALCONE			
CONFIDENTIAL The information contained in this drawing is privileged and confidential. Its disclosure or dissemination of this drawing may be subject to legal restriction or sanction.			

TITLE: S MOUNTING PLATE DETAILS		QTY: 27	DATE: 12/11/18
MODEL NO.: (A14338)		OWN BY: HJT/MAB	DWG NO.: TSG011140
MATERIAL: ALUMINUM ALLOY		CHKD BY:	PTG:
FINISH: POWDER PAINT- HOLOPHANE BLACK LAVA		APPR BY:	REV: 2/3
PROJECT: CITY OF FAIRFAX- LARDNER KLEIN		DATE: 12/11/18	DESCRIPTION:
DRG NO.: RFD250446, DR17564		REV:	
SHR NO.: 2400-18-10030-1			
P.O. NO.: 2400-18-10030-1			
REP.: MEGAN FALCONE			
CONFIDENTIAL The information contained in this drawing is privileged and confidential. Its disclosure or dissemination of this drawing may be subject to legal restriction or sanction.			

Streetscape Elements

Performance Data

LED Package	Distribution	274K (2700K - 70 CRI)			30K (3000K - 70 CRI)			40K (4000K - 70 CRI)			50K (5000K - 70 CRI)							
		Watts	LPW	LM	Watts	LPW	LM	Watts	LPW	LM	Watts	LPW	LM					
P10	GL3	35	3168	91	3	3376	96	3	3543	101	3	3680	105	2	3	3		
	AV3	35	3227	92	3	3439	98	3	3609	101	3	3757	107	2	3	3		
	P10	35	3007	86	2	3204	92	2	3365	96	2	3501	100	2	3	3		
P15	GL3	35	2823	81	3	3009	86	3	3157	90	3	3306	94	1	3	3		
	AV3	35	2628	75	2	2803	80	2	2939	84	2	3060	87	2	3	3		
	P15	35	4917	89	2	5240	95	2	5689	100	2	5726	104	2	4	4		
P20	GL3	55	5008	91	2	4	5338	97	2	4	5601	102	2	4	5	5		
	AV3	55	4656	85	3	4	4973	90	3	4	5219	95	3	4	5	5		
	P20	55	4381	80	2	3	4670	85	2	3	4900	89	2	3	4	4		
P30	GL3	76	6745	89	2	3	7188	95	3	4	7543	99	3	4	7	7		
	AV3	76	6870	90	2	4	7322	96	2	4	7683	101	3	4	5	5		
	P30	76	6401	84	3	4	6822	90	3	4	7159	94	3	4	7	7		
P40	GL3	102	8486	87	3	4	8946	92	3	4	9297	97	3	4	5	5		
	AV3	102	8242	85	3	4	8646	90	3	4	9000	95	3	4	5	5		
	P40	102	7888	77	2	4	8346	87	2	4	8646	86	3	4	5	5		
P50	GL3	139	11577	84	3	5	12275	88	3	5	12881	93	3	5	13411	96	3	5
	AV3	139	10721	84	3	5	11469	84	4	5	11649	84	4	5	11728	84	4	5
	P50	139	10262	79	4	5	10938	79	3	5	11478	83	3	5	11950	86	3	5
P60	GL3	139	9555	69	3	5	10183	73	3	5	10686	77	3	5	11126	80	3	5
	AV3	139	9555	69	3	5	10183	73	3	5	10686	77	3	5	11126	80	3	5
	P60	139	9555	69	3	5	10183	73	3	5	10686	77	3	5	11126	80	3	5

UTILITY POSTOP LED
Series Luminaire
OUTDOOR
DECORATIVE



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ORDER #: 2 914
 TYPE: MRP
 DRAWN: 02/01/2018
 DWG #: LUM_PTE2

UTILITY POSTOP LED
Series Luminaire
OUTDOOR
DECORATIVE



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ORDER #: 3 074
 TYPE: MRP
 DRAWN: 02/01/2018
 DWG #: LUM_PTE2

OPTIONS MATRIX

Parameters	SELECTED OPTION (start here)												
	P10	P15	P20	P30	P40	P50	P60	P70	P80	P90	P100	P120	P150
LED Performance Package	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Voltage	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Finish	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Compatible Options	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

ROAM Option Details
 DE UL listed components without GPS capability, external antenna is black and includes ROAM capable node only, ROAM service package sold separately via Acuity Controls
 F = Future ready (wired with "AO", but could accept control device with foot-Hees field wiring)
 M = Must have, one of these must be included in the package to operate
 N = Combination not available
 Y = Valid Option Combination

Options Matrix Legend
 DE UL listed components without GPS capability, external antenna is black and includes ROAM capable node only, ROAM service package sold separately via Acuity Controls
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 M = Must have, one of these must be included in the package to operate
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Projected LED Lumen Maintenance
 Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-09 and projected per IESNA TM-2-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

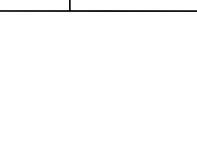
Hours	LLF	Factor
0	0.93	0.91
25,000	0.85	0.82
50,000	0.77	0.74

The italicized data is extrapolated beyond the TM-21 standard.
 E = (LM) x (CU) x (LAT) x (LLD)
 LM and CU are obtained from published photometry.

FPDxx Data Table

FPDxx	Watts	LPW	LM	Watts	LPW	LM	Watts	LPW	LM	Watts	LPW	LM	Watts	LPW	LM	Watts	LPW	LM
FPD100	35	3168	91	3	3376	96	3	3543	101	3	3680	105	2	3	3	3	3	3
FPD150	55	5008	91	2	4	5338	97	2	4	5601	102	2	4	5	5	5	5	5
FPD200	76	6745	89	2	3	7188	95	3	4	7543	99	3	4	7	7	7	7	7
FPD300	102	8486	87	3	4	8946	92	3	4	9297	97	3	4	5	5	5	5	5
FPD400	139	11577	84	3	5	12275	88	3	5	12881	93	3	5	13411	96	3	5	13941
FPD500	139	10721	84	3	5	11469	84	4	5	11649	84	4	5	11728	84	4	5	11888
FPD600	139	10262	79	4	5	10938	79	3	5	11478	83	3	5	11950	86	3	5	12470
FPD700	139	9555	69	3	5	10183	73	3	5	10686	77	3	5	11126	80	3	5	11628

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ORDER #: 2 914
 TYPE: MRP
 DRAWN: 02/01/2018
 DWG #: LUM_PTE2

Catalog Number	
Notes	Type

PTE3

Taft Postop LED



SPECIFICATIONS

General Description

The decorative post top lantern is ideal for lighting city streets, residential areas, campuses, parking lots, and walkways. The architectural luminaire consists of a luminaire housing, a prismatic optic, and a decorative cover.

Optical Assembly

The optical assembly consists of a prismatic glass or acrylic refractor to precisely distribute light with excellent visual comfort and reduced glare. Configurable with CCT options of 2700K, 3000K, and 4000K. CRI is 70 minimum. Available in symmetric and asymmetric distributions.

Electrical Assembly

The programmable LED driver includes 0-10V dimming with optional DALI dimming. Driver is available in 120-277V, 347-480V, and 277V-480V options (50/60 Hz). Driver life is rated to at least 100,000 hours. The 277V-480V (XVOLT) option includes enhanced power quality protection for maximum robustness against loss of neutral, voltage transients, harmonic disturbances, and other real-world power quality disturbances.

Finish

The luminaire housing is low copper cast aluminum and finished with corrosion resistant super durable powder coat paint for maximum durability. Rigorous multi-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5,000 hours exposure to salt fog chamber (operated per ASTM B117)

Mounting

Luminaire includes an integral slipfitter that accepts a 3" tall by $\varnothing 2-7/8"$ - $3-1/8"$ O.D. tenon. Secured to the tenon by 6 set screws

Control Options

Optional controls include:

- Industry standard 3-pin and 7-pin NEMA photocontrols, mounted externally in place of the finial
- - "nLight AIR enabled" for connection to nLight AIR wireless control networks via internally mounted antenna (NLTAIR2)
- DALI compatible drivers. Contact factory for details.
- Customization of lumen packages is possible. Consult factory for details.

Listing

The luminaire is CSA certified to US and Canadian standards. 20kV/10kA extreme surge protection per ANSI/IEEE C136.2. Suitable for operation in ambient temperatures from -40°C to 40°C. Optical chamber is sealed to IP66. DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Buy American Act

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

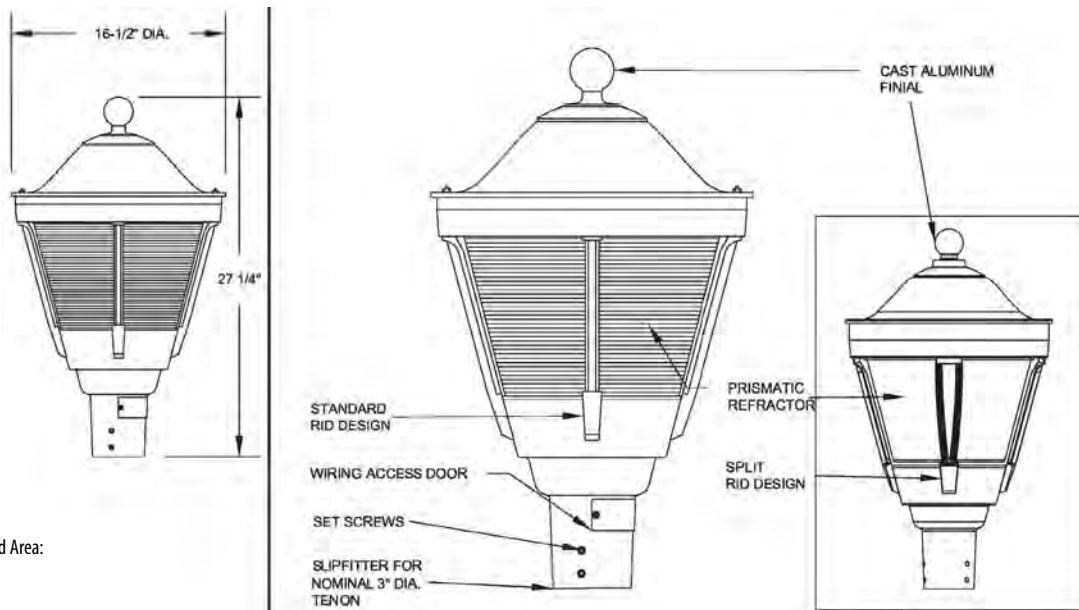
Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



DIMENSIONAL DATA



Maximum Weight - 32 lbs
Maximum Effective Projected Area: 1.3 sq. ft.

ORDERING INFORMATION

EXAMPLE: PTE3 P30 30K MVOLT GL3 BK BL SR

Housing Style	LED Performance Package	Color Temperature	Voltage	Optics	Color	Finial	Ribs
PTE3 Taft LED Post Top	P10 30W nominal	27K 2700K CCT	MVOLT 120-277V	Acrylic Refractor	BK Black	BL Ball	SR Solid rib
	P20 40W nominal	30K 3000K CCT	HVOLT 347-480V	AL3 Acrylic refractor type 3	BZ Bronze	NF None	SRS Split rib
	P30 50W nominal	40K 4000K CCT	XVOLT 277-480V with enhanced power quality protection	AL5 Acrylic refractor type 5	CMC Custom Match Color		
	P40 60W nominal			Glass Refractor	GH Graphite		
	P50 70W nominal			GL3 Glass refractor type 3	GN Green		
	P60 80W nominal			GL5 Glass refractor type 5	GR Grey		
	P70 90W nominal				RALxxxxSDCR RAL Super Durable Corrosion Resistant, 80% Gloss Paint, replace xxxx with RAL number.		
	P80 100W nominal				WH White		

Options		
Control Options:	NEMA Label Options:	Prewire Lead Options:
NLTAIR2 nLight AIR rIO 2.0 antenna	NL1x1 1"x1" ANSI wattage label	L1H 1.5' of prewire leads
PR3E 3-pin NEMA twistlock receptacle, replaces finial	NL2x2 2"x2" ANSI wattage label	L03 3' of prewire leads
PR7E 7-pin NEMA twistlock receptacle, replaces finial		L10 10' of prewire leads
P34 Long Life DTL Twistlock Photocontrol for Solid State, 347V		L20 20' of prewire leads
P48 Long Life DTL Twistlock Photocontrol for Solid State, 480V		L25 25' of prewire leads
PCLL Long Life DTL Twistlock Photocontrol for Solid State, MVOLT		L30 30' of prewire leads
SH Shorting cap		
DALI DALI driver (RFD Required)		

Accessories: Order as separate catalog number.		
House Side Shield Field Installed Options:	Decorative field installed options	
PHSS90 House side shield solid 90 degree	RPCP** Decorative Cupola (** =select color)	
PHSS120 House side shield solid 120 degree	RPGF** Decorative filligree (** = select color)	
PHSS180 House side shield solid 180 degree	RPSC** Decorative cast scroll (** = select color)	
Surge Replacement Field Installed Options:	Photocontrol kit field installed options	
SPDPLUGIN-MVOLT-20KV Replacement for 120-277V 20KV/ 10KA	RPB12** Photocontrol kit for 120V (**=select color)	
SPDPLUGIN-HVOLT-20KV Replacement for 347-480V 20KV/ 10KA	RPB27** Photocontrol kit for 208-277V (** = select color)	
	RPB347** Photocontrol kit for 347V (**=select color)	

MARK APPROPRIATE BOX FOR FINIAL AND RIB OPTIONS

FINIALS

No Finial (NF)

Ball (BL)



RIB OPTIONS

Standard Ribs (SR)

Split Ribs (SRS)



PERFORMANCE DATA

Performance Package	System Watts	Optical Distribution	27K (2700K, 70 CRI)		30K (3000K, 70 CRI)		40K (4000K, 70 CRI)	
			Lumens	LPW	Lumens	LPW	Lumens	LPW
P10	31	GL3	3,526	113	3,806	122	3,876	125
		GL5	3,437	110	3,709	119	3,777	121
		AL3	3,542	114	3,823	123	3,893	125
		AL5	3,545	114	3,826	123	3,896	125
P20	40	GL3	4,617	114	4,983	123	5,075	125
		GL5	4,500	111	4,856	120	4,946	122
		AL3	4,638	115	5,006	124	5,098	126
		AL5	4,641	115	5,009	124	5,101	126
P30	51	GL3	5,692	112	6,144	121	6,257	124
		GL5	5,548	110	5,987	118	6,097	120
		AL3	5,718	113	6,171	122	6,285	124
		AL5	5,722	113	6,176	122	6,289	124
P40	59	GL3	6,869	116	7,413	125	7,550	127
		GL5	6,694	113	7,225	122	7,358	124
		AL3	6,900	116	7,447	126	7,584	128
		AL5	6,905	117	7,452	126	7,589	128
P50	70	GL3	7,873	113	8,497	122	8,653	124
		GL5	7,673	110	8,281	119	8,433	121
		AL3	7,909	113	8,535	122	8,692	125
		AL5	7,914	114	8,542	122	8,699	125
P60	80	GL3	8,811	111	9,509	119	9,684	122
		GL5	8,587	108	9,267	116	9,438	119
		AL3	8,851	111	9,552	120	9,728	122
		AL5	8,857	111	9,559	120	9,735	122
P70	90	GL3	9,730	108	10,501	117	10,694	119
		GL5	9,482	105	10,234	114	10,422	116
		AL3	9,774	108	10,549	117	10,743	119
		AL5	9,781	109	10,556	117	10,750	119
P80	100	GL3	10,504	105	11,337	113	11,545	115
		GL5	10,237	102	11,048	110	11,251	112
		AL3	10,551	105	11,388	114	11,597	116
		AL5	10,559	105	11,396	114	11,605	116

OPTIONS MATRIX

		Voltage			Optic				Finial		Control Options				Photocontrol				
		MVOLT	HVOLT	XVOLT	GL3	GL5	AL3	AL5	BL	NF	DALI	NLTAIR2	PR3E	PR7E	PCLL	P34	P48	SH	
Performance Package	P10	Y	Y	N	Y	Y	Y	Y	Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
	P20	Y	Y	N	Y	Y	Y	Y	Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
	P30	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
	P40	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
	P50	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
	P60	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
	P70	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
	P80	Y	Y	Y	Y	Y	N	N	Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
Voltage	MVOLT				Y	Y	Y	Y	Y	Y	RFD	Y	Y	Y	Y	N	N	Y	
	HVOLT				Y	Y	Y	Y	Y	Y	N	Y	Y	Y	N	Y	Y	Y	
	XVOLT				Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	
Optic	GL3	Y	Y	Y					Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
	GL5	Y	Y	Y					Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
	AL3	Y	Y	N					Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
	AL5	Y	Y	N					Y	Y	RFD	Y	Y	Y	Y	Y	Y	Y	
Finial	BL	Y	Y	Y	Y	Y	Y	Y			RFD	Y	N	N	Y	Y	Y	Y	
	NF	Y	Y	Y	Y	Y	Y	Y			RFD	Y	Y	Y	Y	Y	Y	Y	
Controls	DALI	RFD	N	N	RFD	RFD	RFD	RFD	RFD	RFD				RFD	RFD	RFD	RFD	RFD	
	NLTAIR2	Y	Y	N	Y	Y	Y	Y	Y	Y				N	N	N	N	N	
	PR3E	Y	Y	Y	Y	Y	Y	Y	N	Y	RFD	N				Y	Y	Y	Y
	PR7E	Y	Y	Y	Y	Y	Y	Y	N	Y	RFD	N				Y	Y	Y	Y
Photocontrol	PCLL	Y	N	Y	Y	Y	Y	Y	N	Y	RFD	N	Y	Y					
	P34	N	Y	Y	Y	Y	Y	Y	N	Y	RFD	N	Y	Y					
	P48	N	Y	Y	Y	Y	Y	Y	N	Y	RFD	N	Y	Y					
	SH	Y	Y	Y	Y	Y	Y	Y	N	Y	RFD	N	Y	Y					

OPTIONS MATRIX Legend

Y = Option combination is available
 N = Option combination is not available
 RFD = Additional information required, consult factory

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Luminaire Ambient Temperature (LAT) Factor		
Temperature (°C)	Temperature (°F)	Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.03
10°C	50°F	1.02
15°C	59°F	1.01
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 9,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

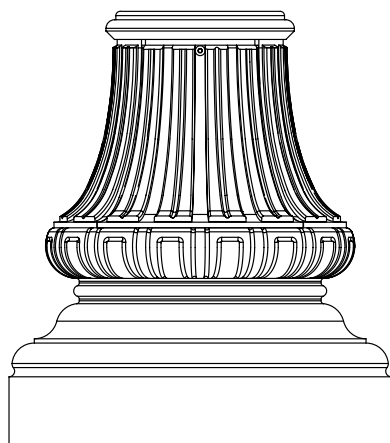
Performance Package	LED Lumen Maintenance						
	Initial	25,000 hours	36,000 hours	50,000 hours	60,000 hours	75,000 hours	100,000 hours
P10 thru P70	1.00	0.95	0.94	0.91	<i>0.90</i>	<i>0.88</i>	<i>0.84</i>
P80	1.00	0.94	0.91	0.89	<i>0.86</i>	<i>0.83</i>	<i>0.79</i>

The italicized data is extrapolated beyond the TM-21 standard.

Catalog Number	
Notes	Type

CLA

Columbia Aluminum Pole



17D

SPECIFICATIONS

General Description

The lighting post shall be all aluminum, one-piece construction, with a classic tapered and fluted base design.

Materials

- The base and fluted tapered cast shaft shall be heavy wall, cast aluminum produced from certified ASTM 356.1 ingot per ASTM B-179 or ASTM B26.
- The straight shafts shall be extruded from aluminum, ASTM 6061 alloy.
- The tapered shaft shall be extruded from aluminum, ASTM 6063 alloy, spun to a tapered shape.
- All hardware shall be temper resistant stainless steel.
- Anchor bolts to be completely hot dip galvanized.
- Utilize a polyester powder coat paint to ensure maximum durability.
- Rigorous multi-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5,000 hours exposure to salt fog chamber (operated per ASTM B117) on standard and RAL finish options.
- RAL (RALxxxxSDCR) paint colors are Super Durable Corrosion Resistant, 80% gloss.

Construction

- The shaft shall be double welded to the base casting and shipped as one piece for maximum structural integrity.
- The shaft shall be welded inside the base casting at the top of the access door, and externally where the shaft exits the base.
- All welding shall be per ANSI/AWS.

Dimensions

- The post height shall range from 8' to 22' with a 17" diameter base.
- At the top of the post, an integral tenon with a transitional donut shall be provided for luminaire mounting.

Installation

- The post shall be provided with four, hot dip galvanized L-type anchor bolts.
- A door shall be provided in the base for anchorage and wiring access.
- A grounding screw shall be provided inside the base opposite the door.

Warranty

1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

IMPORTANT INSTALLATION NOTES:

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Acuity Brands Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Acuity Brands Lighting is not responsible for the foundation design.

Note: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.

ORDERING INFORMATION

Example: CLA 16 SL5 17D C03 BK GRD

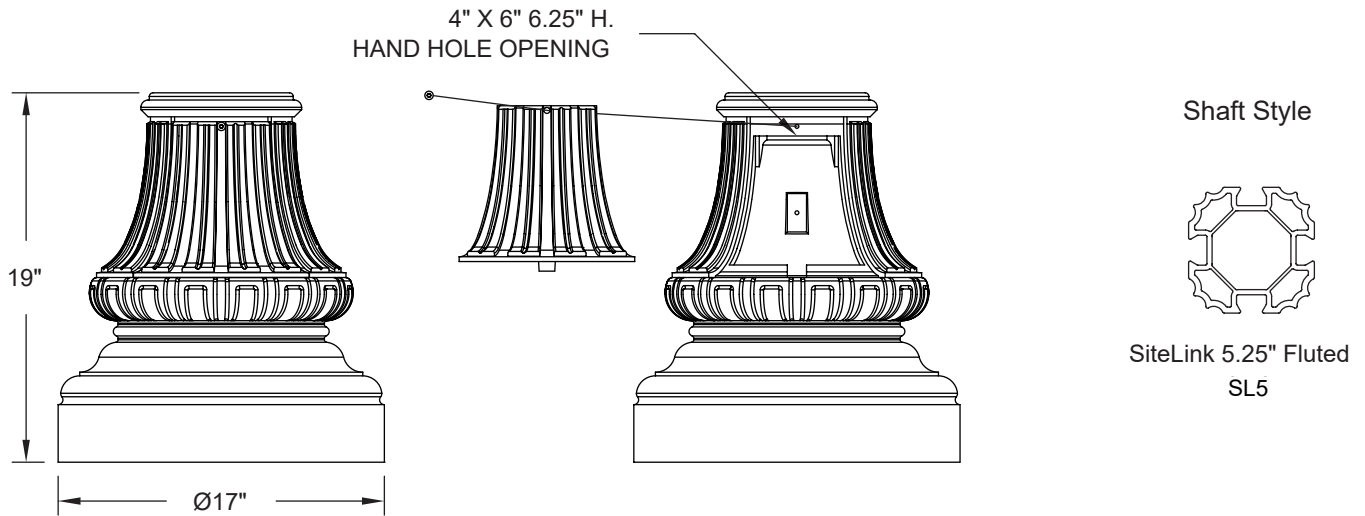
Post	Height	Shaft Style	Base	Tenon
CLA Columbia	08 8 Feet 16 16 Feet	SiteLink SL5 5.25" Fluted, .25 Wall	17D 17" Base, Diamond Pattern Bolt Circle	PLN Pole Cap
	09 9 Feet 17 17 Feet			C03 3X3 Tenon, (actual size 2.88 O.D. x 3" LG.)
	10 10 Feet 18 18 Feet			C04 3X4 Tenon, (actual size 2.88 O.D. X 4" LG.)
	11 11 Feet 19 19 Feet			C05 3X5 Tenon, (actual size 2.88 O.D. X 5" LG.)
	12 12 Feet 20 20 Feet			C06 3X6 Tenon, (actual size 2.88 O.D. X 6" LG.)
	13 13 Feet 21 21 Feet			C08 3X8 Tenon, (actual size 2.88 O.D. X 8" LG.)
	14 14 Feet 22 22 Feet			C09 3X9 Tenon, (actual size 2.88 O.D. X 9" LG.)
15 15 Feet	C12 3X12 Tenon, (actual size 2.88 O.D. X 12" LG.)			
				C14 3X14 Tenon, (actual size 2.88 O.D. X 14" LG.)

NOTE: Refer to Pole Guide on page 3 for height based on Shaft Style.

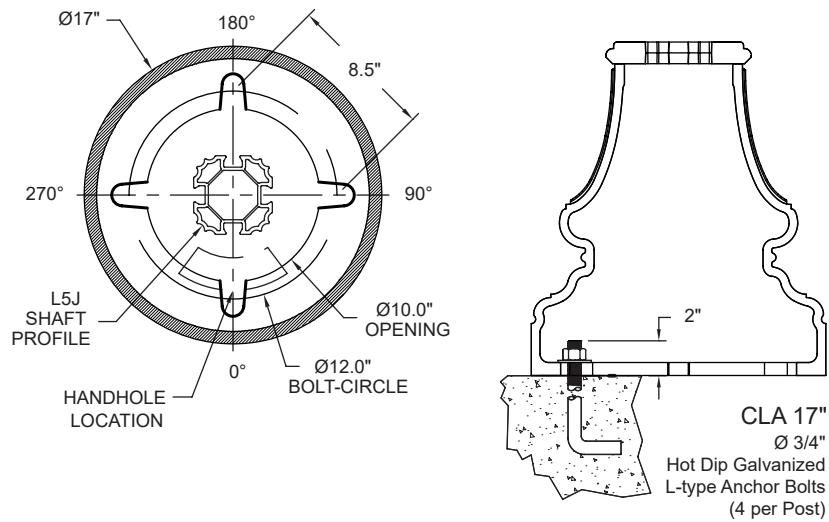
Finish	Options	Welded Provisions	Accessories: Order as separate catalog number
BK Black	GRD 1/2 Brass Grounding Lug	RPXXXY Receptacle provision	AB-31-4 3/4" Anchor bolt set, galvanized steel TMP40012 12" Bolt Circle; 17" Base SiteLink SL5
BZ Bronze			
CMC Customer matched color			
CTBS Standard color to be determined			
DB Dark Blue			
GH Graphite			
GN Green			
GR Gray			
PP Prime Painted			
RALxxxxSDCR RAL Super Durable Corrosion Resistant, 80% Gloss Paint, replace xxxx with RAL number.			
SL Silver			
WH White			

NOTE: Replace "XXX" with height from grade (inches), can be up to 3 digits. Must use whole numbers. Leading zeros are not used. Replace Y with orientation from hand hole (A=0, B=90, C=180, D=270). Add multiple provisions as necessary to cover each location. Must validate EPA restrictions for banners.

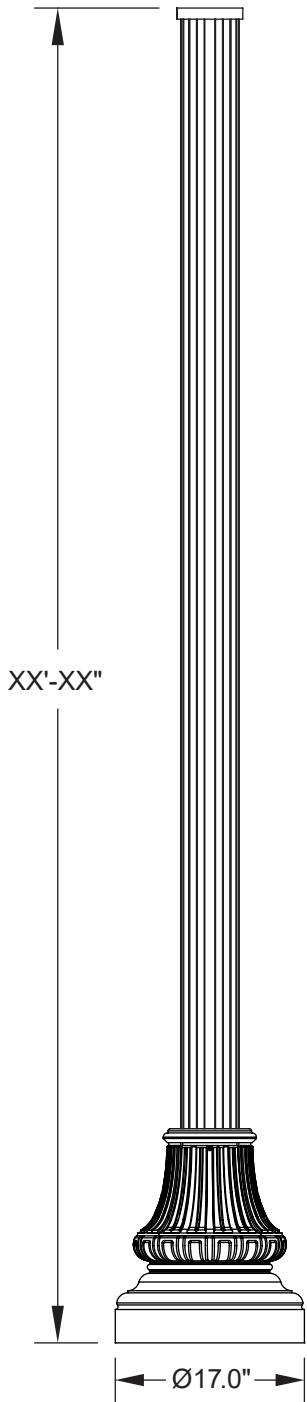
DIMENSIONAL DATA



ANCHORAGE GUIDE



POLE GUIDE



POLE HEIGHT RANGE (For 17" diameter base)

SL5
8' thru 22'

**12060-2
STARBURST
Tree Grate**

60" x 120" Tree grate in four sections for pedestrian loads only

3/8" Maximum slot opening for A.D.A. compliance and pedestrian safety

Cast from 100% recycled gray iron or Aluminum or Cast C854 Copper Alloy.

Tree opening: 16", 18", 28"

Grates can be ordered with or later expanded to these openings. Please specify when ordering.

Finish: Unfinished or Black Dip, or Enamel paint, or Polyurethane paint, or Powder coat. Zinc undercoat available.

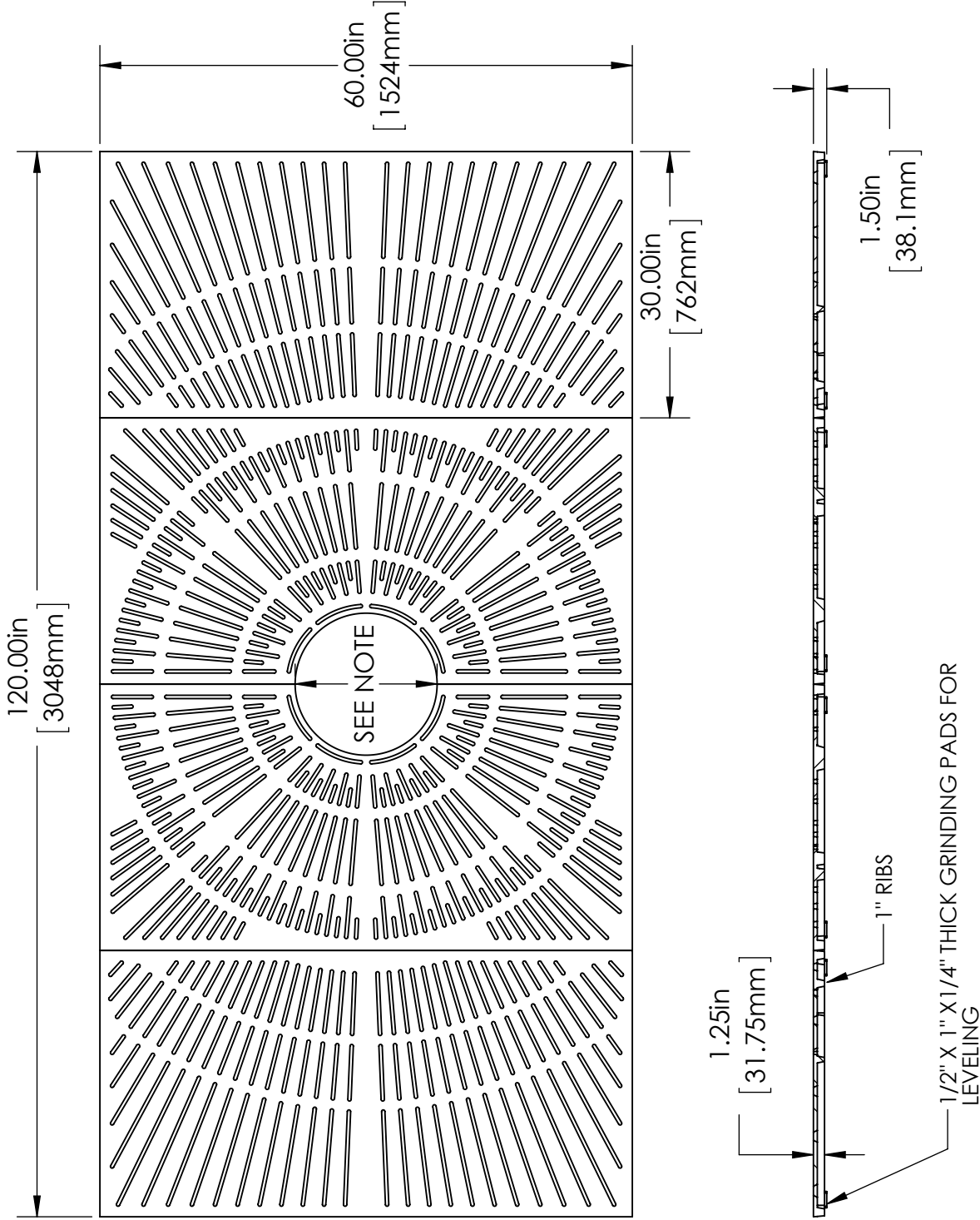
Specify finish and color

Use frame model: 60X120F

Weight: iron = 1000lb./454.5 Kg Aluminum: 334lb./151.8 Kg

DO NOT SCALE

IRONS
41-701 Corporate
Palm Desert,
(800) 338
(760) 776-5080 Fax



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C-Series LED

16209

L10

120V-277V LED Small Accent, 5W & 10W



Select Models



PROJECT:

TYPE:

ORDERING:

COMMENTS:

APPLICATIONS

Kichler's 120V-277V LED accent lighting fixtures are designed for outdoor lighting applications requiring uniform light sources, with long life, and little maintenance requirements.

CONSTRUCTION

Die-cast aluminum construction with durable polyester powder coating. Vandal resistant hardware, reinforced knuckle design, a water draining front end with an integrated cowl. Accent fixtures accept various lens or louver accessories.

ELECTRICAL

ETL listed to UL and CSA Standards for 120V-277 VAC (50/60 Hz), and suitable for wet locations. Integrated surge protection (4kV) comes standard.

OPTICS

Utilizes a single LED chip-on-board light source that provides for center-to-edge uniformity and enhances beam control. Three-step binning for tight color consistency. Available in three standard beam angles: 15, 40 or 55 degrees.

LISTINGS

ETL wet label listed to UL and CSA Standards. IP66 rated. FCC compliant.

ORDERING MATRIX (Model # +Finish & CCT Codes) & LUMEN INFORMATION

Model #	Finish	CCT (30 / 40)	Wattage	CRI	Beam Angle	Lumen	Lm/W	L70 (hrs)
16209	AZT or BKT	3000K	5.2	80 (+)	15 Deg	473	91	60,000
16209	AZT or BKT	4000K	5.0	80 (+)	15 Deg	495	99	60,000
16210	AZT or BKT	3000K	5.2	80 (+)	40 Deg	478	93	60,000
16210	AZT or BKT	4000K	5.1	80 (+)	40 Deg	514	100	60,000
16211	AZT or BKT	3000K	5.3	80 (+)	55 Deg	478	91	60,000
16211	AZT or BKT	4000K	5.3	80 (+)	55 Deg	495	93	60,000
16212	AZT or BKT	3000K	9.9	80 (+)	15 Deg	831	84	60,000
*16212	AZT or BKT	4000K	10.0	80 (+)	15 Deg	914	91	60,000
16213	AZT or BKT	3000K	10.1	80 (+)	40 Deg	831	82	60,000
*16213	AZT or BKT	4000K	10.3	80 (+)	40 Deg	942	91	60,000
16214	AZT or BKT	3000K	9.9	80 (+)	55 Deg	807	82	60,000
*16214	AZT or BKT	4000K	10.2	80 (+)	55 Deg	934	91	60,000

Example: 16209BKT40 is model 16209 in Textured Black, 4000K

Each model is available with a finish in BKT - Textured Black or AZT - Textured Architectural Bronze

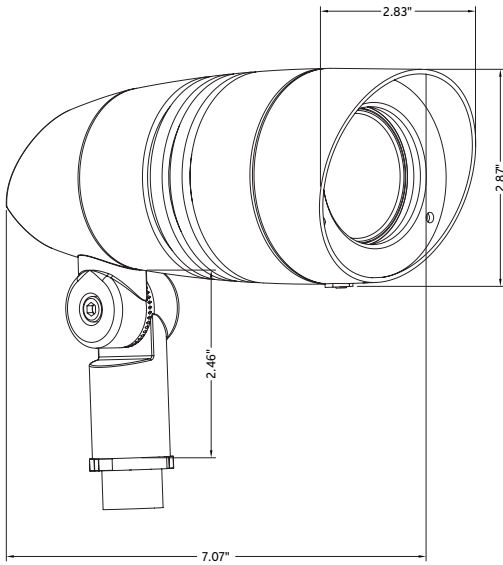
*DLC Qualified Products. For the most current listing, visit www.designlights.org

KICHLER

C-Series LED

120V-277V LED Small Accent, 5W & 10W

DIMENSIONS



INCLUDED ACCESSORIES

Three (3) King Innovation Gel-Filled twist-on wire connectors

ACCESSORIES

Ordered & shipped separately (for knuckle only)

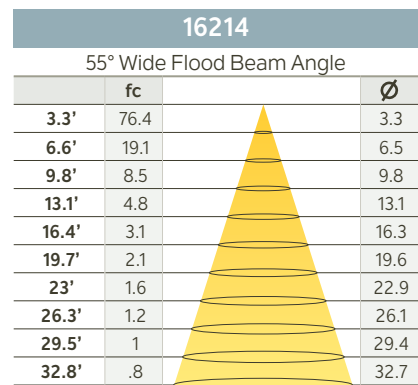
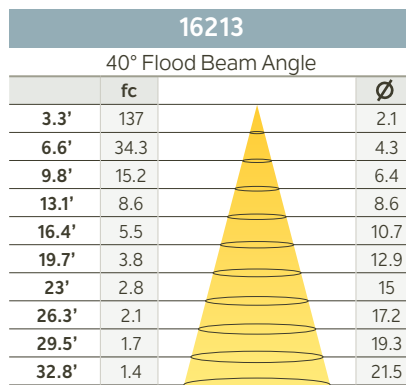
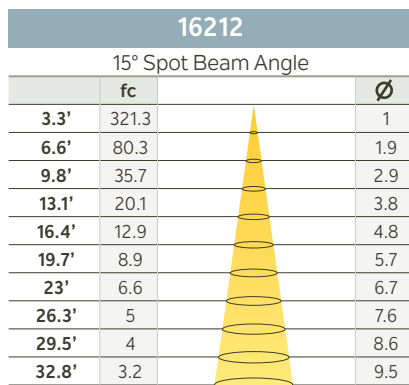
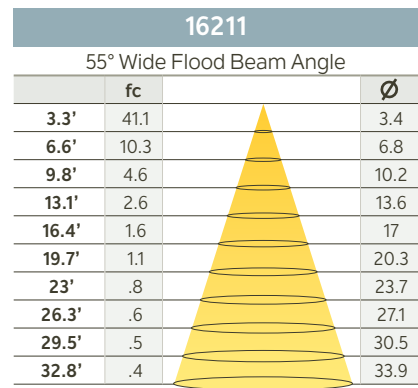
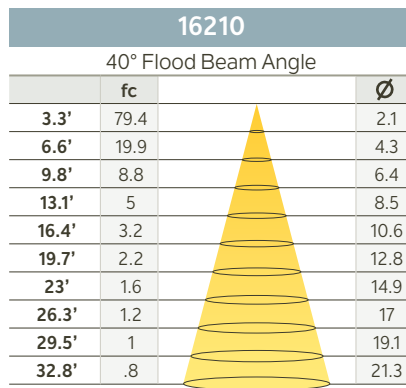
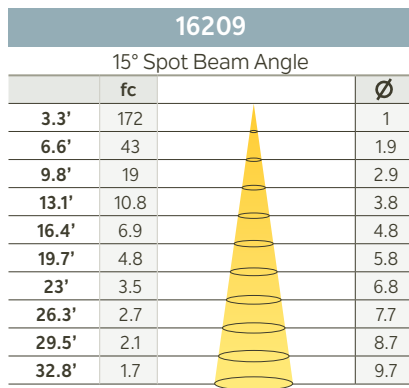
- 15645 AZT, BKT** - 6" Stem Corrosion resistant
- 15656 AZT, BKT** - 12" Stem aluminum alloy with
- 15657 AZT, BKT** - 18" Stem baked thermoset
- 15658 AZT, BKT** - 24" Stem powder coating.

15276 BKT - Power Post: A Fast, One-Step Connector
 Made of Impact / Corrosion Resistant PVC
 2.25" Inside Diameter to Accommodate Conduits
 of Different Sizes
 Accepts .50 NPSM Thread
 Designed For 120V-277V Line Voltage Landscape Lighting,
 Eliminating Need For Above or Below Ground Boxes.
 Built-in Stabilizer Removes Need For Concrete

15601 AZT, BKT - Cast Aluminum Surface Mounting
 Flange with Bronze or Black Finish, Neoprene Gasket For
 Watertight Seal

15609 AZT, BKT - Junction Box Mounting Bracket
 Corrosion Resistant Cast Aluminum Alloy with Baked
 Thermoset Bronze or Black Powder Coat Finish

PHOTOMETRIC DIAGRAMS





DETAILS

Modern outdoor planter lends effortless refinement to patios, decks and balconies with its ribbed detailing and elegantly tapered base.

Crafted of a textured composite, vessel is lightweight and easy to move. Finished in soft white for a look that's light and fresh while contrasting beautifully with lush greenery. Group with the small and medium white outdoor planters for a layered display.

Zadie White Outdoor Planter Large 17.75" dia. x 30.75"H

- Cement/sand/fiberglass blend
- Includes drainage hole
- Outdoor-safe; cover or store indoors during inclement weather and when not in use
- Made in Vietnam

DIMENSIONS

OVERALL DIMENSIONS

Height: 30.75"

Diameter: 17.75"

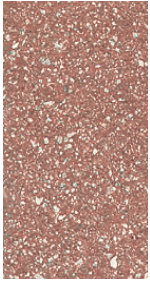
L11

L12

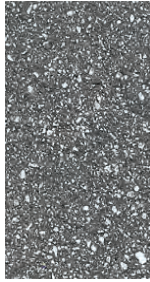


Prest® Pavers | STANDARD COLORS WITH TUDOR® FINISH

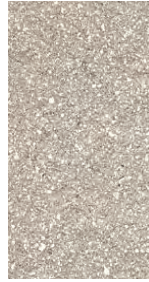
The eight standard colors shown are available in a wide range of paver sizes and thicknesses. Custom color blending can be accommodated, as well as, custom aggregate blending. Hanover's Tudor® Finish is an architectural texture which gives the surface a granite-like appearance. It is a surface equally suited to urban and municipal projects.



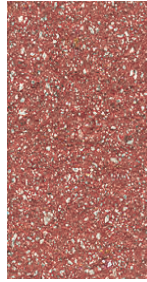
Quarry Red



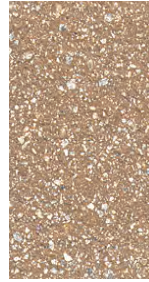
Charcoal



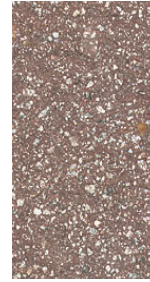
Natural*



Red 15



Tan



Brown



Cream



Limestone Gray

*Natural color Prest® Pavers have a tendency to vary in color within any given shipment. It may vary in shade from gray/buff to light gray, and even to a darker gray. This variance should be expected and considered normal for the Natural color Prest® Pavers.

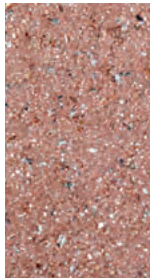
PLEASE NOTE: For stability of color, sealing is recommended. Two types of sealers are suggested - Hanover® Intensifying Sealer or Hanover® Natural Sealer.

Prest® Pavers | CUSTOM COLORS WITH GROUND FINISH

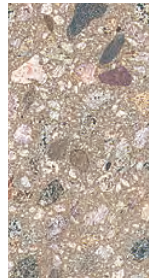
Texture is as important to the appearance of the installation as color and pattern. Hanover's Ground Finish provides a smooth surface revealing the aggregates beneath. Custom color and aggregate blending is available when quantities permit.



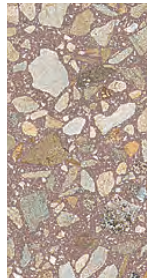
Super Black



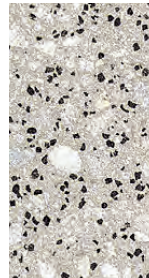
Matrix #1111



Matrix #1171



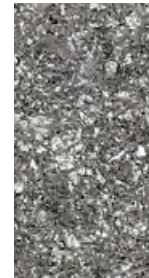
Matrix #1049



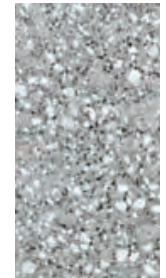
Matrix #1185



Matrix #1109



Matrix #1151



Matrix #1240

SlateFace® Prest® Paver Colors

The SlateFace® Paver has been designed to reproduce the texture, color and appearance of natural slate. Stocked in Hanover's BlueStone and Tennessee Flagstone colors, its irregular top surface was developed from actual sections of stone.



BlueStone
(#M2374)

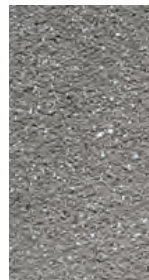


Tennessee Flagstone
(#M2343)

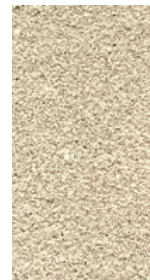
PLEASE NOTE: The color photos shown to the left are a representation of possible color blend and texture. The actual product may vary. Hanover's blended colors consist of several shades and will include some solid and some blended pieces.

CUSTOM COLORS WITH TUDOR® #13 FINISH

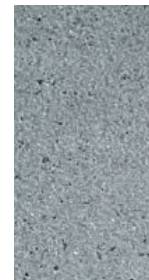
Hanover® Pavers are also produced in a Tudor® #13 finish which gives a delicate sandstone texture. A few available colors are shown below. Other custom colors can be ordered when quantities permit.



Matrix
#1428



Matrix
#1775



Matrix
#2127



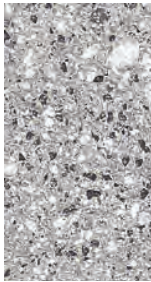
Matrix
#1914

Prest® Pavers | CUSTOM COLORS WITH TUDOR® FINISH

The blends shown below were developed by Hanover's efforts to respond to particular project requirements. Additional custom blending is available on special order when quantities permit. Hanover's Tudor® finish is a specialized texture designed to reveal the aggregates naturally. It gives the surface a granite-like appearance which adds slip resistant qualities to the paver.



Matrix #1458



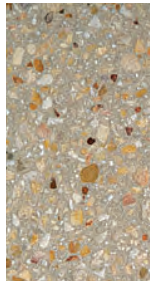
Matrix #1025



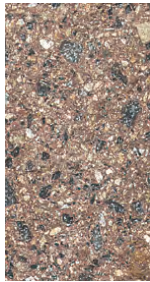
Matrix #115



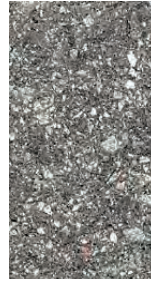
Matrix #1171*



Antietam*



Matrix #1119



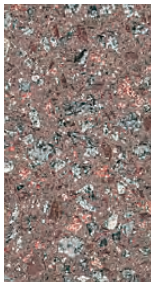
Matrix #1151*



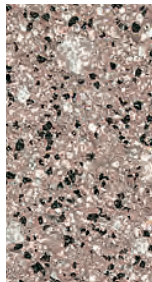
Glacier White



Matrix #1914



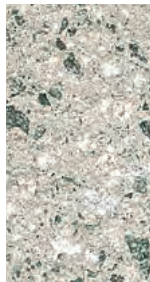
Matrix #1916*



Matrix #1952



Matrix #1457



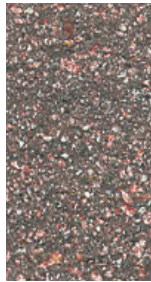
Matrix #1856



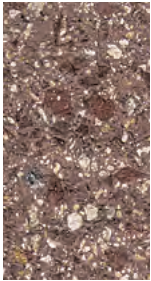
Matrix #1875*



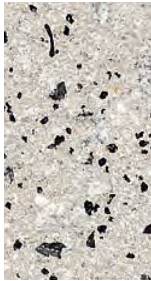
Matrix #1810



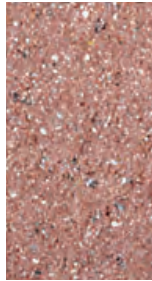
Matrix #1649



Matrix #1767



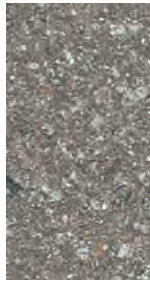
Matrix #1442



Matrix #1111*



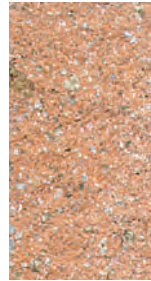
Matrix #1256



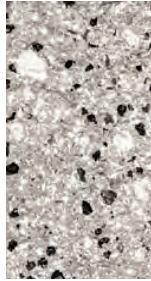
Matrix #1636



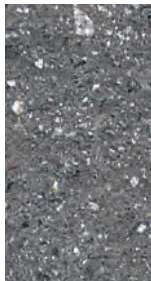
Matrix #1983



Matrix #2088



Matrix #2922



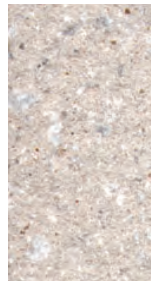
Matrix #1428



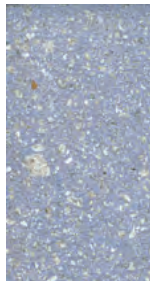
Matrix #2115



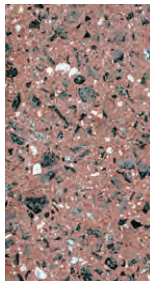
Matrix #2156



Matrix #1930



Matrix #1537



Matrix #2659



Matrix #2835

Colors shown are custom colors. Please contact a Hanover® Sales Representative for pricing.

* Colors are available with a Heavy Tudor®, Ground or Ground Tudor® finish only.

PLEASE NOTE: Additional custom blending is available on special order when quantities permit. The color photos shown in this catalog were prepared with great concern for accuracy. However, it is suggested that actual samples be requested before specifying. Due to the natural variance of the raw materials used, pavers can be expected to differ slightly from sample to actual product. It is recommended that the pavers be cleaned after the installation is finished. Please contact our representatives for product suggestions.

DIMENSIONALLY COMPATIBLE HANOVER® PREST® PAVER SIZES

		1 1/4"	1 1/2"	1 3/4"	1 13/16"	2"	2 1/4"	2 1/2"	3"	4"
150mm x 447mm	5 7/8" x 17 5/8"					X	X	X	X	X
150mm x 597mm	5 7/8" x 23 1/2"					X	X	X	X	X
150mm x 897mm	5 7/8" x 35 3/8"					X	X	X	X	X
297mm x 297mm	11 3/4" x 11 3/4"		X	X	X	X	X	X	X	
297mm x 447mm	11 3/4" x 17 5/8"		X	X		X	X	X	X	
297mm x 597mm	11 3/4" x 23 1/2"		X	X	X	X	X	X	X	
297mm x 897mm	11 3/4" x 35 3/8"		X			X	X	X	X	
447mm x 447mm	17 5/8" x 17 5/8"		X	X	X	X	X	X	X	X
447mm x 597mm	17 5/8" x 23 1/2"		X	X	X	X	X	X	X	
447mm x 897mm	17 5/8" x 35 3/8"		X			X	X	X	X	
597mm x 597mm	23 1/2" x 23 1/2"		X	X	X	X	X	X	X	X
597mm x 897mm	23 1/2" x 35 3/8"			X	X	X	X	X	X	
597mm x 1197mm	23 1/2" x 47 1/8"*							X	X	
897mm x 897mm	35 3/8" x 35 3/8"*							X	X	

ADDITIONAL HANOVER® PREST® PAVER SIZES

		1 1/4"	1 1/2"	1 3/4"	1 13/16"	2"	2 1/4"	2 1/2"	3"	4"
302mm x 302mm	11 7/8" x 11 7/8"		X			X	X	X	X	
303mm x 303mm	11 15/16" x 11 15/16"		X			X	X	X	X	
378mm x 378mm	14 7/8" x 14 7/8"		X			X	X	X	X	
403mm x 403mm	15 7/8" x 15 7/8"		X			X	X	X	X	
454mm x 454mm	17 7/8" x 17 7/8"		X			X	X	X	X	
597mm x 747mm	23 1/2" x 29 1/2"				X	X	X	X	X	
606mm x 606mm	23 7/8" x 23 7/8"		X			X	X	X	X	
606mm x 911mm	23 7/8" x 35 7/8"		X			X	X	X	X	
759mm x 759mm	29 7/8" x 29 7/8"					X				
908mm x 908mm	35 3/4" x 35 3/4"*							X	X	
911mm x 911mm	35 7/8" x 35 7/8"*							X		
Hexagonal, 402mm across flats	Hexagonal, 15 7/8" across flats					X	X	X	X	
Hexagonal, 597mm across flats	Hexagonal, 23 1/2" across flats					X	X	X	X	
Octagonal, 402mm across flats	Octagonal, 15 7/8" across flats					X	X	X	X	

MISCELLANEOUS HANOVER® ROOF PAVER SIZES

		1 1/4"	1 1/2"	1 3/4"	1 13/16"	2"	2 1/4"	2 1/2"	3"	4"
Lightweight Roof Ballast : 15 lbs/sf										
297mm x 597mm	11 3/4" x 23 1/2"	X								
597mm x 597mm	23 1/2" x 23 1/2"	X								
Pedestal® Paver : 22 lbs/sf										
597mm x 597mm	23 1/2" x 23 1/2"						X			
Special Size Paver for Roof Ballast Application : 29 lbs/sf										
908mm x 908mm	35 3/4" x 35 3/4"						X			
Special Size Paver for Pedestrian Urban Application : 32 lbs/sf										
908mm x 908mm	35 3/4" x 35 3/4"							X		

 = Standard Thickness

 = SlateFace® Paver Thickness (22 lbs/sf)




 = Natural Diamond Roof Paver Thickness (23 lbs/sf)

*Note increased thickness and weight for these paver sizes.

Please Note: Paver weight at a 2" thickness is 25 lbs/sf.

Standard manufactured thickness for pedestrian applications is 2". However, when utilized in urban pedestrian applications, a 2 1/2" thickness is recommended. The additional strength will help to accommodate the unpredictable circumstances and stressful situations that exist in the urban city environment. Contact Hanover® for a full list of paver sizes and their available thicknesses appropriate for the intended use.

PEDESTRIAN VS. VEHICULAR USAGE COMPARISON

	HANOVER® PRODUCT	 PEDESTRIAN USE	 LIGHT VEHICULAR USE**	 MODERATE VEHICULAR USE**
		use by persons on foot and any mobility impaired persons using a wheelchair	pedestrian use & low speed, low volume residential and light commercial vehicular use	pedestrian use & low speed, moderate volume residential and moderate commercial vehicular use
	HANOVER® PRODUCT	MINIMUM THICKNESS	MINIMUM THICKNESS	MINIMUM THICKNESS
PREST® BRICK	Riven	3"	3"	3"
	Olde Hanover®	2 3/8"	2 3/8"	NO MODERATE VEHICULAR USE
	Halifax® Flagstone	3"	3"	3"
	Appian®	2 3/8"	2 3/8"	3"
	PlankStone®	4"	PLANKSTONE® 3" x 9" x 4" ONLY	PLANKSTONE® 3" x 9" x 4" ONLY
	Traditional®	2 3/8"	2 3/8"	3"
	Multisided	2 3/8"	2 3/8"	3"
	Hampshire™	3"	3"	NO MODERATE VEHICULAR USE
	Parallelogram	3"	3"	NO MODERATE VEHICULAR USE
Appalachia	3"	3"	NO MODERATE VEHICULAR USE	
PERMEABLE PAVING UNITS	Aqua-Loc®	3"	3"	3"
	EcoGrid®	4"	4"	NO MODERATE VEHICULAR USE
	Permeable 4" x 8"	3"	3"	3"
	Permeable 4 1/2" x 9"	3"	3"	3"
	Permeable 4 1/2" x 9" Scored	3"	3"	3"
	Permeable 3 1/4" x 18"	4"	NO LIGHT VEHICULAR USE	NO MODERATE VEHICULAR USE
	Permeable 12" x 18"	3"	NO LIGHT VEHICULAR USE	NO MODERATE VEHICULAR USE
PREST® PAVERS	11 3/4" x 11 3/4"	2" All Prest® Paver sizes are applicable for pedestrian use at a 2" or greater thickness.	3" *	NO MODERATE VEHICULAR USE
ASPHALT BLOCK	4" x 6", 6" x 6", 5" x 12" 6" x 12", 8" x 8" 8" Hexagonal	1 1/4"	3"	3"
	3D Diamond	1 1/4"	NO LIGHT VEHICULAR USE	NO MODERATE VEHICULAR USE
CHAPEL STONE® PAVERS	6" x 12" approximately	4"	4"	4"

* The 11 3/4" x 11 3/4" x 3" Prest® Paver and Brick are applicable only in limited vehicular conditions. Please contact Hanover® Technical Sales Staff for more information.

** Hanover® recommends 45° and 90° Herringbone installation designs when unit paver dimensions permit. Herringbone designs are fully interlocked and resist vehicular load forces.

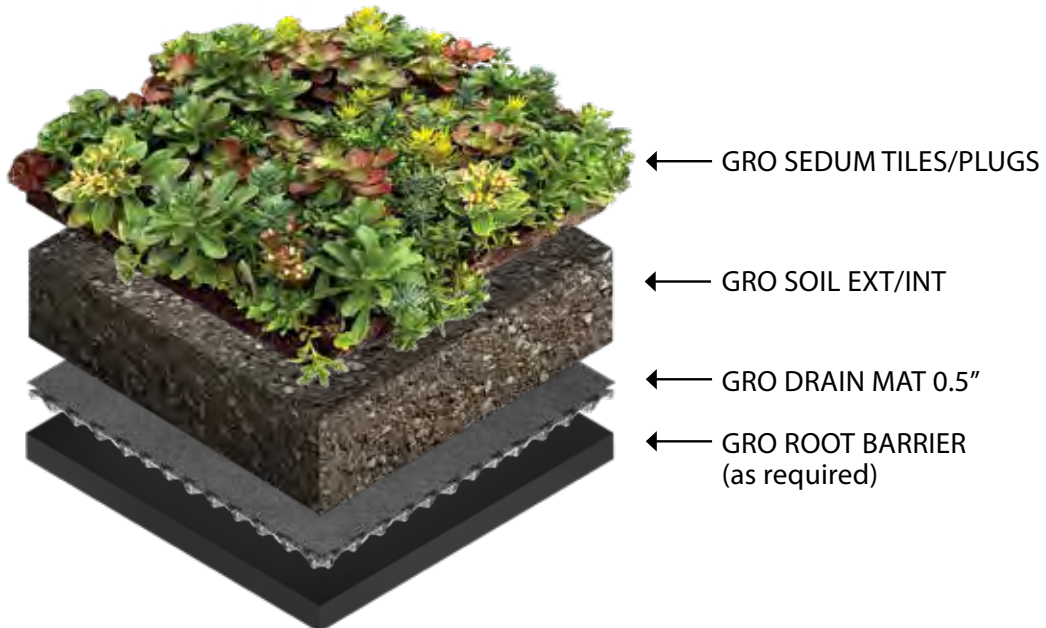
For vehicular applications, base materials must be engineered with the intended vehicular loading conditions in mind. Please contact Hanover® Technical Sales Staff for more information. • Hanover® suggests, Prest® Pavers for urban pedestrian environments have a thickness of 2 1/2". • Please Note: Not all sizes/colors are stocked materials. Some are only available through special order and when quantities permit. • Not all product styles are available in the full range of thicknesses. Please refer to Hanover's specific product information for availability.

GRO CLASSIC

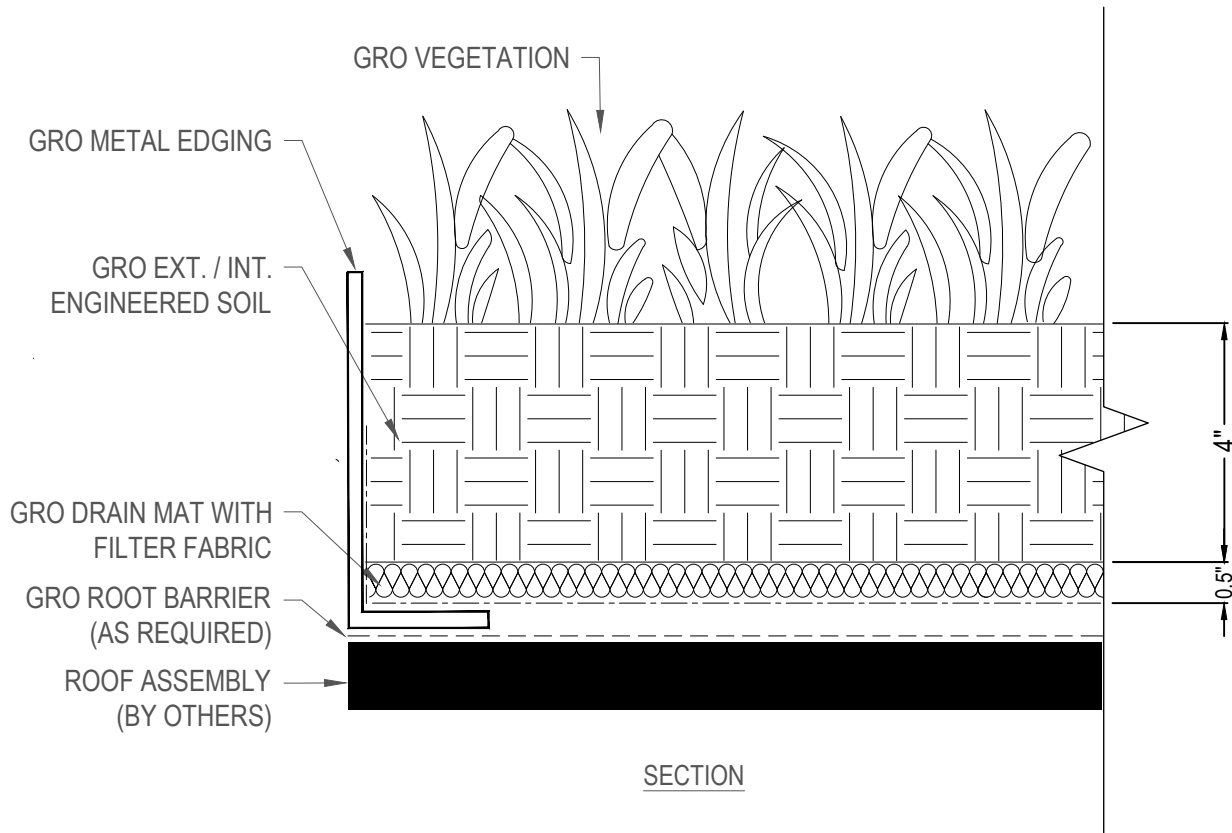
The GRO Classic is the ‘tried & true’ workhorse of the green roof industry. This standard composition has been proved for many years, and will continue to be specific. Our GRO Classic meets the minimum stormwater retention requirements for most U.S. cities.

DEPTH	4.5"
SOIL	4"
DRAIN MAT	0.5"
SATURATED WEIGHT	33 psf
WATER RETENTION	1.3 gal/sf
IRRIGATION	Site specific

*soil depths can be customized

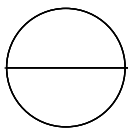


GRO CLASSIC SYSTEM



NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.GREENRISETECH.COM.



GRO CLASSIC LAYERED GREEN ROOF SYSTEM

GENERAL NOTES

- THE PROPERTY DELINEATED HEREON IS LOCATED IN THE CITY OF FAIRFAX TAX MAP #57-04-02-071, #57-04-02-072, #57-04-02076
- THE PROPERTY IS CURRENTLY ZONED CR (COMMERCIAL RETAIL) & CG (COMMERCIAL GENERAL). IT IS ALSO SUBJECT TO THE TRANSITION OVERLAY DISTRICT REGULATION.
- THIS APPLICATION PROPOSES A REZONING OF THE PROPERTY TO THE COMMERCIAL URBAN DISTRICT.
- PORTION OF IMPROVEMENTS ON THIS APPLICATION ARE ON PROPERTY OWNED BY FAIRFAX COUNTY (TAX MAP#57-04-01-014). ALL OFFSITE IMPROVEMENTS ARE SUBJECT TO ISSUANCE OF ALL NECESSARY APPROVALS, PERMISSIONS, EASEMENTS, AND AGREEMENTS BY FAIRFAX COUNTY.
- BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY URBAN, LTD.
- THE SITE IS PRESENTLY SERVED BY CITY OF FAIRFAX PUBLIC WATER AND SEWER.
- THE PROPOSED IMPROVEMENTS RESULT IN AN INCREASED OF IMPERVIOUS AREA IN THE SUBJECT PROPERTY.
- UNDERGROUND PRIVATE UTILITY LOCATIONS ARE APPROXIMATE AND THOSE SHOWN HAVE NOT BEEN SURVEYED. EASEMENTS CONTAINED WITHIN OWNERS TITLE REPORT HAVE BEEN PLOTTED ON THE SURVEY BASE.
- PROFILES FOR ALL UTILITIES WILL BE SUBMITTED WITH THE FINAL SITE PLAN.
- THERE ARE NO KNOWN HAZARDOUS OR TOXIC SUBSTANCES ON THIS SITE. IF ANY SUBSTANCES ARE FOUND, THE METHODS FOR DISPOSAL SHALL ADHERE TO CITY, COUNTY, STATE, AND FEDERAL LAW.
- THERE ARE NO KNOWN BURIAL SITES OR ARCHEOLOGICAL FEATURES ON THIS SITE.
- EXISTING OFF-SITE STRUCTURES TO REMAIN ARE SHOWN SHADED ON THE REZONING & GENERAL DEVELOPMENT PLAN.
- THERE IS NO CITY, COUNTY, OR FEMA FLOODPLAIN ON THE PROPERTY.
- DIMENSIONS AND SIZES AS SCALED ARE APPROXIMATE AND MAY VARY DEPENDING ON THE FINAL USE AND ARCHITECTURAL/ENGINEERING DESIGN. THE FINAL DESIGN SHALL BE IN SUBSTANTIAL CONFORMANCE WITH THE GENERAL DEVELOPMENT PLAN.
- THE PROPOSED BUILDING FOOTPRINTS SHOWN ON THIS GDP/SUP PLAT ARE PRELIMINARY IN NATURE AND SUBJECT TO CHANGE BASED ON FINAL ENGINEERING AT THE TIME OF SITE PLAN PROVIDED THAT SUCH MODIFICATIONS ARE SUBSTANTIALLY CONSISTENT WITH THE APPROVED GDP/SUP PLAT.
- THE CITY STANDARD STREET LIGHTS ARE SUBJECT TO APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS.
- SITE LIGHTING IS TO BE DETERMINED AT THE TIME OF SITE PLAN AND WILL BE IN CONFORMANCE WITH SECTION 4.8 OF THE ZONING ORDINANCE AND THE PUBLIC FACILITIES MANUAL.

REQUESTED SPECIAL USE PERMITS, SPECIAL EXCEPTIONS, WAIVERS AND MODIFICATIONS

REQUIREMENT	WAIVER/MODIFICATION
SPECIAL EXCEPTION	SE OF ZONING ORDINANCE SECTION 3.7.3.C.2 TO ALLOW INCREASE IN 48' MAX. BLDG HEIGHT IN TO DISTRICT
SPECIAL EXCEPTION	SE OF ZONING ORDINANCE SECTION 4.3.3 TO ALLOW A WAIVER OF THE REQUIREMENT TO PROVIDE VEHICULAR ACCESS TO TAX MAP 57-04-02-070
SPECIAL EXCEPTION	SE OF ZONING ORDINANCE SECTION 3.7.3.C.3 TO ALLOW A MODIFICATION FOR REQUIRED YARDS IN THE TO DISTRICT
SPECIAL EXCEPTION	SE OF ZONING ORDINANCE SECTION 3.6.2 TO ALLOW A MODIFICATION OF THE MAXIMUM PERMITTED DENSITY
SPECIAL EXCEPTION	SE OF ZONING ORDINANCE SECTION 4.4.4.A.1 TO MODIFY REQUIREMENT FOR SIDEWALKS ON BOTH SIDES OF A STREET
SPECIAL USE PERMIT	SUP OF ZONING ORDINANCE SECTION 3.3.1.B TO ALLOW A DRIVE-THROUGH FINANCIAL INSTITUTION

POSSIBLE GREEN ROOF AMENITIES

GREEN ROOF AMENITY AREAS DELINEATED ON LEVELS 3 AND 7 MAY INCLUDE PLANTERS WITH VARIOUS SOIL DEPTHS TO SUPPORT AN INTENSIVE VEGETATIVE AREA TYPE. ADDITIONALLY, THE LEVEL 7 ROOFTOP (ELEVATION 512'1") MAY CONTAIN EXTENSIVE VEGETATED AREAS WITH SHALLOW SOIL SYSTEMS (i.e. SEDUM TRAYS).

ALL VEGETATED AREAS ON ANY LEVEL MAY BE USED TO TREAT STORMWATER, BUT SHALL NOT BE A REQUIRED COMPONENT OF THE STORMWATER MANAGEMENT SYSTEM AT TIME OF FINAL ENGINEERING.

THE GREEN ROOF AMENITY AREAS SHALL BE GENERALLY PROVIDED AS SHOW HEREON, BUT LOCATIONS AND MINOR ADJUSTMENTS TO SIZES MAY BE REVISED AT TIME OF FINAL ENGINEERING.

PFM WAIVERS

PFM SECTION	REQUIREMENT	WAIVER REQUEST
2.6.1	C&G ON BOTH SIDE OF STREET	EP PROVIDED ON SOUTH SIDE OF E/W ROAD
5.2.6.A.4	12" SEPARATION OF UTILITIES	REQUEST A MINIMUM 6" BE PERMITTED FOR SEPARATION WITH UTILITY PIERS
2.7.3	DISTANCE BETWEEN DRIVEWAYS	REDUCE THE REQUIRED DISTANCE OF 50' BETWEEN DRIVEWAYS

ZONING STANDARDS

SITE DATA

ZONING:	EXISTING..... CR & CG, TO DISTRICT	PROPOSED..... COMMERCIAL URBAN (CU), TO DISTRICT
USE:	EXISTING..... OFFICE RETAIL, RESTAURANT	PROPOSED..... UPPER STORY RESIDENTIAL/ MIXED USE, RETAIL, RESTAURANT, OFFICE GENERAL, OFFICE MEDICAL
SITE AREA:	77,683 SF (1.78 ACRES)	
ROW DEDICATION:	2,998 SF (0.068 ACRES)	
TOTAL SITE AREA:	74,685 SF (1.71 ACRES)	

SEC. 3.6.2 AND 3.7.3: BULK AND LOT AREA REQUIREMENTS PER CG AND TO DISTRICT REGULATIONS

	REQUIRED		PROVIDED
	COMMERCIAL URBAN (SEC. 3.6.2)	TRANSITION OVERLAY (SEC. 3.7.3)	
MIN. LOT AREA (SF)	30,000	NONE	77,683
**REQUIRED YARDS (FT.)			
FRONT AND SIDE (STREET)	N/A	10' MAX	±17
SIDE (INTERIOR)	N/A	N/A	±5
REAR	N/A	N/A	±17
BUILD-TO LINE, (PERCENT)	50	50	
LOT WIDTH (FT.)	N/A	N/A	491
HEIGHT, MAX. (STORIES/FEET)	5 STORIES/60	48 FT*	8 STORIES/94'
BUILDING COVERAGE, MAX. (%)	80	80	66
LOT COVERAGE, MAX. (%)	100	90	90
DENSITY, MAX.	24 UNITS/ACRE	N/A	46.1 UNITS/ACRE*

*SEE THIS SHEET FOR ZONING MODIFICATION REQUESTS
**PROPERTY IS NOT ADJACENT TO A RESIDENTIAL DISTRICT OUTSIDE THE TRANSITION OVERLAY DISTRICT BOUNDARIES

DEVELOPMENT PROGRAM

PROPOSED BUILDING DATA	
MULTIFAMILY RESIDENTIAL:	165,436 GSF
BANK:	18,199 GSF
GENERAL OFFICE:	10,079 GSF
RETAIL/RESTAURANT:	7,731 GSF
MEDICAL OFFICE:	8,584 GSF

UNIT COUNT: UP TO 79 UNITS

SEC. 4.2.3E: OFF-STREET PARKING AND LOADING (ENTIRE SITE)

OFF-STREET PARKING AND LOADING REQUIREMENTS PER CITY OF FAIRFAX ZONING ORDINANCE (SEC. 4.2.3E)				
PARKING	USE	RATE	REQUIRED	TO DISTRICT 50% PARKING REDUCTION FOR ALL USES
RETAIL/RESTAURANT GENERAL OFFICE (BANK) MEDICAL OFFICE UPPER STORY RESIDENTIAL/MIXED USE	1 SPACE/200 SF	50	25	25
	2 SPACE/300 SF	119	60	60
	1 SPACE/200 SF	90	45	45
	1.5 SPACES/UNIT	119	-	-
			TOTAL PARKING REQUIRED	249

LOADING				
USE	RATE	REQUIRED		
UPPER STORY RESIDENTIAL/MIXED USE (4+ STORIES)	50+ UNITS	1		
			TOTAL LOADING SPACES REQUIRED	1

SEC. 4.2.8B: BICYCLE PARKING

REQUIRED VEHICULAR PARKING	249 SPACES
REQUIRED BICYCLE PARKING:	
FIRST 100 VEHICULAR SPACES	6 BICYCLE SPACES
1 SPACE/20 VEHICULAR SPACES OVER INITIAL 100	8 BICYCLE SPACES
TOTAL REQUIRED	14 BICYCLE SPACES
PROVIDED BICYCLE PARKING	14 BICYCLE SPACES

Note: 12 spaces provided on site outside of building and 2 spaces provided in garage and/or within porte cochere.

LEGAL DESCRIPTION



Overall Description of The Properties Of Infinite Equity, LLC
Deed Book 23432 at Page 1808
George and Georgia Volakis, Trustees
Deed Book 20986 at Page 1676
And
Dana Ellen Smith, Trustee
Deed Book 25158 at Page 906
City of Fairfax, Virginia

Beginning at an iron pipe set on the southernmost corner of the land of 10533 Main Street LLC, as recorded in Deed Book 19552 at Page 485 among the land records of Fairfax County, Virginia; Said point also being in the line of the land of Fairfax County Board of Supervisors, as recorded in Deed Book 1631 at Page 196 among the land records of Fairfax County, Virginia; Thence departing the land of said Fairfax County Board of Supervisors and running with the land of said 10533 Main Street LLC;

North 18°29'39" East a distance of 170.49 feet to a drill hole set in the southerly right-of-way line of Main Street, Virginia State Route 236, a variable width right-of-way; Thence departing the land of said 10533 Main Street LLC and running with the southerly right-of-way line of said Main Street;

South 65°57'21" East a distance of 86.99 feet to an iron pipe set;

North 18°25'39" East a distance of 0.49 feet to a drill hole set;

123.36 feet along the arc of a curve to the right having a radius of 22875.00 feet and subtended by a chord bearing South 66°38'37" East a distance of 123.36 feet to a drill hole set;

South 66°29'21" East a distance of 31.35 feet to a drill hole set;

South 13°37'09" West a distance of 1.22 feet to an iron pipe set;

South 66°48'21" East a distance of 131.62 feet to an iron pipe set;

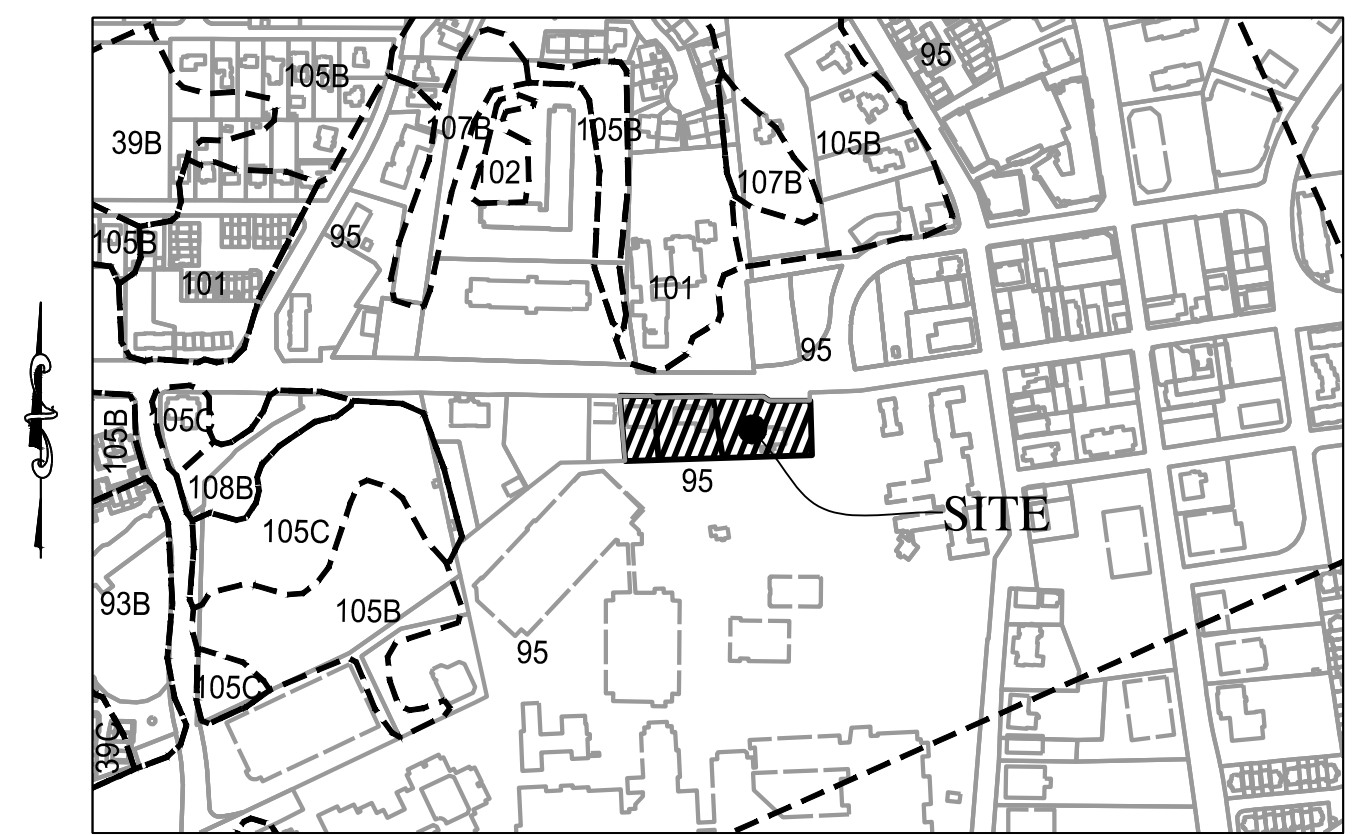
South 33°52'38" East a distance of 18.41 feet to an iron pipe found;

South 66°48'21" East a distance of 107.00 feet to an iron pipe found on a line of the land of the aforementioned Fairfax County Board of Supervisors; Thence departing the

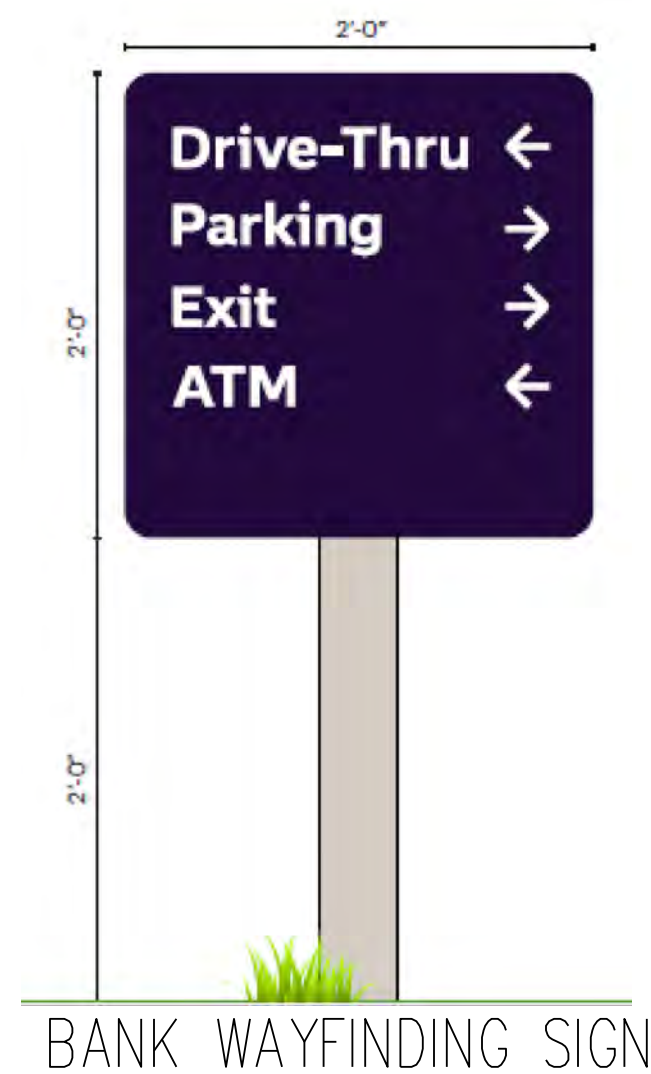


southerly right-of-way line of said Main Street and running with the land of said Fairfax County Board of Supervisors;
South 21°21'39" West a distance of 141.88 feet to an iron pipe found;
North 68°38'21" West a distance of 486.74 feet to the point of beginning and containing an area of 77,683 square feet or 1.7833 acres, more or less.

SOILS MAP



SOIL ID NUMBERS	SOIL SERIES NAME	FOUNDATION SUPPORT	SOIL DRAINAGE	EROSION POTENTIAL	HYDROLOGIC SOIL GROUP
105B	WHEATON GLENELG COMPLEX 2-7 % SLOPES	GOOD	GOOD	HIGH	D
105C	WHEATON GLENELG COMPLEX 7-15 % SLOPES	GOOD	GOOD	HIGH	D
101	URBAN LAND - GLENELD COMPLEX 2-7%	GOOD	FAIR	HIGH	D
95	URBAN LAND	N/A	N/A	N/A	NA
108B	WHEATON-SUMERDUCK COMPLEX	MARGINAL-W,B	POOR-W,S	MEDIUM	D
39B	GLENELG SILT LOAM	GOOD	GOOD	HIGH	B
107B	WHEATON-MEADOWVILLE COMPLEX 2-7%	GOOD	GOOD	MEDIUM	A
102	WHEATON LOAM 2-25%	GOOD	GOOD	HIGH	C



BANK WAYFINDING SIGN

LEGEND:

- EXISTING STORM DRAIN STRUCTURE
- PROPOSED STORM DRAIN STRUCTURE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING TREE LINE
- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE PIPES
- PROPOSED PROPERTY LINE PIPES
- PROPOSED CURB & GUTTER
- EXISTING CURB & GUTTER
- EXISTING TRAFFIC POLE
- EXISTING SPOT ELEVATION
- PROP. SPOT ELEVATION
- EXISTING FENCE
- EXISTING LIGHTING
- PROPOSED LIGHTING
- EXISTING TREE
- PROPOSED TREE
- PROJECTED TRAFFIC COUNT (BASED ON 6TH ED. OF ITE TRIP GENERATION BOOK)
- EXISTING OVERHEAD WIRE
- PROP. FENCE

REVISIONS

No.	DATE	DESCRIPTION
01	18-02-22	
02	20-02-24	
03	20-02-24	
04	02-02-23	

Urban, Ltd. 4200-D TECHNOLOGY CT. CHANTILLY, VA 20151 TEL: 703.642.2306 FAX: 703.378.7888 www.urban-llc.com

Planners-Engineers-Landscape Architects-Land Services

urban

COMMONWEALTH OF VIRGINIA
CLAYTON C. TOOK
Lic. No. 0087980
06/02/2023
REGISTERED PROFESSIONAL

GENERAL NOTES & DETAILS
CITY CENTRE WEST
GENERAL DEVELOPMENT PLAN
SPECIAL USE PERMIT PLAT
CITY OF FAIRFAX, VIRGINIA

SCALE: AS SHOWN
SHEET 02 OF 51
FILE No. RZ-13007

DATE: JAN., 2022
CI.= N/A

Urban, Ltd. - J:\085\10523 main street\p-engineering\entire\plan\3007-02-CH01ES.dwg [GN01ES] June 02, 2023 - 12:41pm yelosi



**MINUTES OF THE REGULAR MEETING OF THE
BOARD OF ARCHITECTURAL REVIEW
CITY OF FAIRFAX
CITY HALL, FAIRFAX, VIRGINIA
May 17th, 2023**

Members who attended: Chair James Schroeder, Jagdish Pathela, Robert Beaty, Jim Feather, Brian Singleton, Heather Waye.

Member(s) Absent: None.

Staff who attended: Anna Kohlbrenner - BAR Liaison, Brooke Hardin – Director CDP, Albert Frederick – Senior Planner

Meeting called to order at 7:04 p.m.

1. Discussion of Agenda

- a. **Consideration for remote participation by Chairman James Schroeder and Planning Commission representative Jim Feather, pursuant to Code of Virginia Sec. 2.2-3708.2.**

MR. PATHELA MOVED TO THE APPROVE REMOTE PARTICIPANT JAMES SCHROEDER AND JIM FEATHER, SECONDED BY MS. WAYE, WHICH CARRIED BY ROLL CALL VOTE UNANIMOUSLY, 4-0.

MR. FEATHER MOVED TO ADOPT THE AGENDA AS PRESENTED, SECONDED BY MR. BEATY, WHICH WAS APPROVED UNANIMOUSLY, 6-0.

2. Presentations by the public on any item not calling for a public hearing

None.

3. Consideration of the March 1, 2023 meeting minutes.

MS. WAYE MOVED TO ADOPT THE MINUTES AS PRESENTED, SECONDED BY MR. PATHELA, WHICH WAS APPROVED UNANIMOUSLY, 6-0.

4. Public Hearings:

- a. **Consideration of the request** of Preston Taylor, representative of The Moxley Apartments, for a mural, at the property located at 11101 Fairfax Blvd, case number BAR-23-00312.

Ms. Kohlbrenner presented the staff report, which has been incorporated into the record by reference.

Staff comments/applicant comments

Beaty asked if the tree is in front of the proposed mural location.

The applicant stated the tree is in a buffer zone.

Beaty asked the distance of the tree to the proposed mural location.

The applicant stated 10'-15'.

Beaty asked if the tree would obscure the mural and if there would be a better location for the mural on the building.

The applicant stated the tree may obscure the mural from the roadway, but other areas will be open for viewing. The applicant stated the proposed area does not have windows and will frame the proposed mural in that area.

Feather asked what mural grade paint was.

The applicant stated it is a more durable paint that holds up overtime to the elements.

Feather stated he did some research and stated it is said that murals should be painted with acrylic paint and not latex material paint. He asked if the artist intends to use acrylic paint.

The applicant stated she did not know the paint type, but they hired an experienced muralist.

Feather stated he will trust city staff to pick the correct paint type and material and stated this looks like one of the only locations on the building for a mural. He stated if the tree is pruned properly, it should be reasonably visible.

Singleton stated having the mural look well-kept and durable overtime is important.

The applicant stated that with other artists the EDA has hired, they have required them to use an undercoat, mural grade paint, and a topcoat to last overtime.

Pathela stated the tree in front of the proposed mural location could be a concern and that the artist should take that into account, as having the mural visible to the public is important.

Schroeder stated it was most likely the only good location on the building for a mural and as the tree grows, it should become more visible over time.

Public comments

None.

MR. PATHELA MADE A MOTION TO APPROVE THE REQUEST OF PRESTON TAYLOR, REPRESENTATIVE OF THE MOXLEY APARTMENTS, FOR A MURAL, AT THE PROPERTY LOCATED AT 11101 FAIRFAX BLVD, CASE NUMBER BAR-23-00312 WITH THE FOLLOWING CONDITIONS:

1. The proposed modifications shall be in general conformance with the plans and renderings received by staff in May 2023 and approved by the Board of Architectural Review as of May 17, 2023.
2. The applicant shall secure all required zoning approvals and permits prior to construction.

Discussion of the motion

None.

SECONDED BY MS. WAYE.

THE MOTION CARRIED UNANIMOUSLY, 6-0.

- b. Consideration of the request** of Robert D. Brant, representative of Pulte Home Company LLC, for landscaping, at the property located at 10829 Fairfax Blvd, 10807-10818 Cedar Ave, 3930-3934 Oak Street, and 3979 Walnut Street, case number BAR-23-00261.

Ms. Kohlbrenner presented the staff report, which has been incorporated into the record by reference.

Staff comments

Beaty asked if there were any colored renderings of the landscaping.

Kohlbrenner stated no.

Feather stated the added condition regarding the urban forester review will satisfy his concern. He stated he was concerned with the placement of the Sycamore trees as they are very messy trees and allergenic and would like the urban forester to investigate the placement of them.

Kohlbrenner stated she can relay that comment to the urban forester.

Applicant comments

Beaty asked if the trees and shrubs proposed are native and what percent.

The applicant stated there are some native trees and shrubs but not all, as they selected as many as they could. The applicant stated she did not have the percent of the native plantings but estimated 45-50%.

Feather stated it is important to maintain diversity of species and having all native plantings does not necessarily mean it is a good thing.

Pathela stated the BAR does not have expertise on landscaping and will depend on the urban forester. He asked if the applicant would be comfortable making changes that the urban forester suggests.

The applicant stated yes and that they just received second revision comments.

Pathela stated he does not have an issue with non-native plantings.

Public comments

None.

MR. PATELA MADE A MOTION TO APPROVE THE REQUEST OF ROBERT D. BRANT, REPRESENTATIVE OF PULTE HOME COMPANY LLC, FOR LANDSCAPING, AT THE PROPERTY LOCATED AT 10829 FAIRFAX BLVD, 10807-10818 CEDAR AVE, 3930-3934 OAK STREET, AND 3979 WALNUT STREET, CASE NUMBER BAR-23-00261 WITH THE FOLLOWING CONDITIONS:

1. The proposed modifications shall be in general conformance with the plans and renderings received by staff in April 2023 and approved by the Board of Architectural Review as of May 17, 2023.
2. The applicant shall secure all required zoning approvals and permits prior to construction.
3. Landscaping is subject to change per urban forester comments at site plan approval stage.

Discussion of the motion

None.

SECONDED BY MS. WAYE.

THE MOTION CARRIED UNANIMOUSLY, 6-0.

5. Work Sessions:

- a. **Consideration of the request** of Robert D. Brant, representative of Ox Hill Realty LLC, for the construction of a mixed-use building, at the property located at 10501, 10515, 10523 Main Street, case number BAR-22-00772.

Ms. Kohlbrenner presented the staff report, which has been incorporated into the record by reference.

Staff comments

Beaty asked if there was anything to show in response to the BAR comments from the previous work session.

Kohlbrenner stated there was not a direct response to the comments. She stated the change in architecture is how they commented back.

Singleton stated he liked the county side park idea.

Waye asked the property owners for the three parcels.

Kohlbrenner stated Infinite Equity LCC, Dana Ellen Smith Exempt Trust, and George and Georgia Volakis Family Trust.

Pathela asked the difference in occupancy from the previous work session.

Kohlbrenner responded:

Previous condominium 84 units

Current condominium 79 units

Previous general office 68,900

Current general office 2,700

Previous medical and dental 12,000

Current medical and dental 18,000

Previous retail 3,000 retail

Current retail 10,000 retail

Bank was not given in previous meeting

Current bank 15,000

Pathela said he is concerned about the retail increasing square footage from a traffic standpoint.

Board and applicant comments

Schroeder stated having the architect give his perspective on the design was helpful.

Beaty asked the height on the east side of the proposed building.

The applicant stated around 85’.

Beaty asked the recommended max height of the small area plan.

The applicant said 6 stories, with no actual height limit of the 6 stories. He stated the zoning ordinance has a 60’ height limit for 6 stories.

Beaty stated the building does not have variation and is not happy with that, as he stated he would like to see a bit more variation and less ‘cookie cutter’.

Feather stated the proposal was a positive dramatic change. He liked how the proposal was respectful to the historic district without mimicking it. He said maybe add a third color in, but the shadowing in the upper stories could vary the coloring. He stated the first floor appears flat and could use improvement. He stated with the way the top floor is set back, the building does not appear as 7 stories from the street. He stated he has no concerns about the height special exception. He stated the density special exception is not a concern to him as the units appear high end. He stated the cross access special exception and sidewalk special exception he does not have an issue with as they cannot make the neighboring property owner work with them. He stated he likes the proposal but breaking up the ground floor would be beneficial.

Singleton stated it is a classically modern take on the old town area. He asked if the building would be LEED certified.

The applicant stated yes, it would be both LEED and WELL certified.

Singleton stated the Mosby towers across the street are a similar height.

Waye asked the developers goals and economics behind the project. She asked if it is LEED certified then why the plant that the bricks are made is in Ontario, which would make the project not LEED certified. She stated 1.1-2.2 million is the price of the condos. She asked if the applicant has looked at the market for this type of price point.

The applicant stated there is a factory in Georgia they would be getting the brick from. The applicant stated they have done a market analysis.

Waye stated it is important to be a partner in the city and market analysis must be considered, and if the developer is looking to sell the property right after building.

The applicant stated they are a community partner, and their offices are in the city. He stated they are very involved in the city and are deeply engrained and looking forward to working with the BAR and city staff.

Waye asked if this project is intended to have a long-term holding.

The applicant said they could not speak to that. The applicant stated they would be for-sale condos.

Waye stated she liked the areas of 10' sidewalks but they could be taken further with bike lanes, scooters, and further road development for tenants that would be living there. She stated it appears monolithic and too tall due to how it is presented. She stated there are ways to break up the appearance more to make it not feel as tall. She stated city of Alexandria does not have a drastic change from modern to traditional architecture. She went through example photos in the area that show classical residential architectural language that helps blend the buildings into the surrounding area. She stated she did not like the Mosby building. She stated she would like to see the street level scale broken down further for a better pedestrian feel. She stated there are ways to maintain height that would feel acceptable based on how the architecture feels walking next to the building. She stated she likes the frontage increase. She asked if the applicant meets the parking requirements.

The applicant stated yes.

Waye stated she does not understand how the developer could make money off this proposal and mentioned she could discuss offline.

Pathela stated the proposal looked like a commercial development and not residential. He agreed with Ms. Wayes comments. He stated the location, traffic, and massing is a concern. He stated since retail square footage is increased, this would affect traffic. He stated he liked the green roof and asked if there would be solar panels.

The applicant stated there would not be solar panels.

Pathela stated accessibility and traffic is a big issue with so many projects coming up. He stated stormwater management must be looked at, as the parking garage is underground. He stated he does not have a problem with the height if the façade can help reduce the massing appearance. He stated the major concerns are fenestration, accessibility, massing, and egress.

The applicant stated since the previous work session there would be a reduction in the traffic due to the reduction in office space and increase in larger condos.

Pathela stated retail attracts more traffic and is something to investigate. He stated it looks more commercial.

The architect stated the reason he thinks it does not look commercial is because the building is covered in terraces.

Pathela stated he has seen terraces done on commercial buildings.

Schroeder stated he is still concerned about height on the east end. He stated the building appears monolithic and that the applicant should work on breaking up the pedestrian realm. He stated there is a large brick mass at the pedestrian level. He stated he liked the size of terraces and what may help the massing is ensuring the plantings on terraces, as that would soften the building. He asked about the sidewalk width along Main Street.

Kohlbrener stated the sidewalk ranged from 10' to 8' along Main.

Schroeder stated he would like to see the sidewalk at 10' throughout and would like to see improvements from a pedestrian perspective. He stated he has no real issues with the special exceptions except the height exception. He asked if the architect and applicant received enough information from the board to move forward.

The applicant stated yes, they do have enough information. He stated the section that showed an 8' sidewalk does not include the 2' wide tree grate, but there is a 10' clear pedestrian zone in that area.

Pathela stated this could be a very successful project if the applicant finds a middle ground.

6. Staff Report

Administrative approvals since last meeting:

- **10340 Democracy replace rooftop mechanical screening**
- **3975 University two new doors**
- **3570 Chainbridge Northfax reduction in height for some townhomes**
- **3501 Lion Run Fairfax Highschool EV chargers**
- **9508 Fairfax Blvd Scout restaurant outdoor dining area**
- **PVI reduction in height for some townhomes**

Open/active administrative applications since last meeting: None.

7. Closing Board comments

- Beaty welcomed the new board member and stated he would be out of town for the June 7th BAR meeting if there is a meeting held.
- Feather stated there was a pre-app meeting with Ox Hill Companies on May 8 with the Planning Commission and that there is an upcoming pre-app meeting next Monday for Courthouse Plaza redevelopment. He mentioned he is now the chair of the Planning Commission.
- Kohlbrener stated there has been an applicant apply for the business rep position to the BAR but they have not been interviewed yet.

8. Adjournment

Meeting adjourned at 9:15 p.m.

Adopted:

ATTEST: _____
Anna Kohlbrenner, BAR liaison.