690 Chesterfield Pkwy W ● Chesterfield MO 63017-0760
Phone: 636-537-4000 ● Fax 636-537-4798 ● www.chesterfield.mo.us

IV. C.

Architectural Review Board Staff Report

Project Type: Site Development Section Plan

Meeting Date: May 13, 2021

From: Natalie Nye, Planner

Location: North of Chesterfield Airport Rd. and east of Spirit of St. Louis Blvd.

Description: **Spirit of St. Louis Corporate Center, Lot 1 (Gateway Studios):** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 23.8-acre tract of land zoned "PC" Planned Commercial District located on the north side of Chesterfield Airport Road and east of Spirit of St. Louis Boulevard.

PROPOSAL SUMMARY

The request is for a 329,000 +/- square foot building with music and film studio space and supporting offices located north of Chesterfield Airport Road and east of Spirit of St. Louis Blvd. The subject site is 23.8 acres and is Lot 1 of the Gateway Studios development. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2342. The exterior building materials will primarily be comprised of concrete panels, blue-grey glass, and steel accents.

HISTORY OF SUBJECT SITE

The subject property was originally zoned "M3" Planned Industrial District by St. Louis County. On March 19, 2007 Ordinance 2342 was approved which rezoned the property to "PC" Planned Commercial District. Permitted uses as a result of the rezoning include but are not limited to; studios, offices, and hotels. Following the approval of the Ordinance a Lot Split and Boundary Adjustment Plat were approved in May of 2007. This created the current boundaries of the site.

In 2021 applications for a Boundary Adjustment Plat, Amended Site Development Concept Plan, Site Development Section Plans for Lots 1 and 2, and an Architectural Specialty Lighting Plan were submitted for the development known as Gateway Studios, a campus containing recording and film studios, office space and a hotel. The site is currently vacant awaiting development.

Figure 1: Location Map

STAFF ANALYSIS

General Requirements for Site Design:

The subject site is located north of Chesterfield Airport Rd., east of Spirit of St. Louis Blvd. and south of Highway 40/Interstate 64. The proposed building is oriented so that it fronts on Chesterfield Airport Rd. However, the building will be visible to motorists traveling along the interstate and Spirit of St. Louis Blvd as well.

Circulation System, Access, and Parking

The larger Gateway Studios development will be served by three access points; two off of Chesterfield Airport Rd. and one off of Spirit of St. Louis Blvd. Lot 1 within the development, which will contain the Main Building and Studio 2, will have six different entry points from the internal drive. The internal drive will serve both the Main Building, the Spirit Hotel and any future development of Lot 3. All of the access points to the Main Building and Studio 2 from the internal drive will have sliding security gates. These gates will match the proposed fence located on the retaining wall and will provide added security to the clientele using the studio spaces. Sidewalks are proposed around the perimeter and throughout the site for safe pedestrian circulation. A plaza is proposed at the entrance of the Main Building. There are two additional private plazas that serve users of the site.

The parking lot serving the Main Building is located to the west of the building. The parking lot will contain 192 parking spaces, 12 of which are handicap spaces. The large parking lot will include pedestrian walkways to guide pedestrians to the main entrance and plaza. A smaller parking lot

serving the Studio 2 building is located north of the Main Building. This parking lot contains 23 parking spaces, 4 of which are handicap spaces.

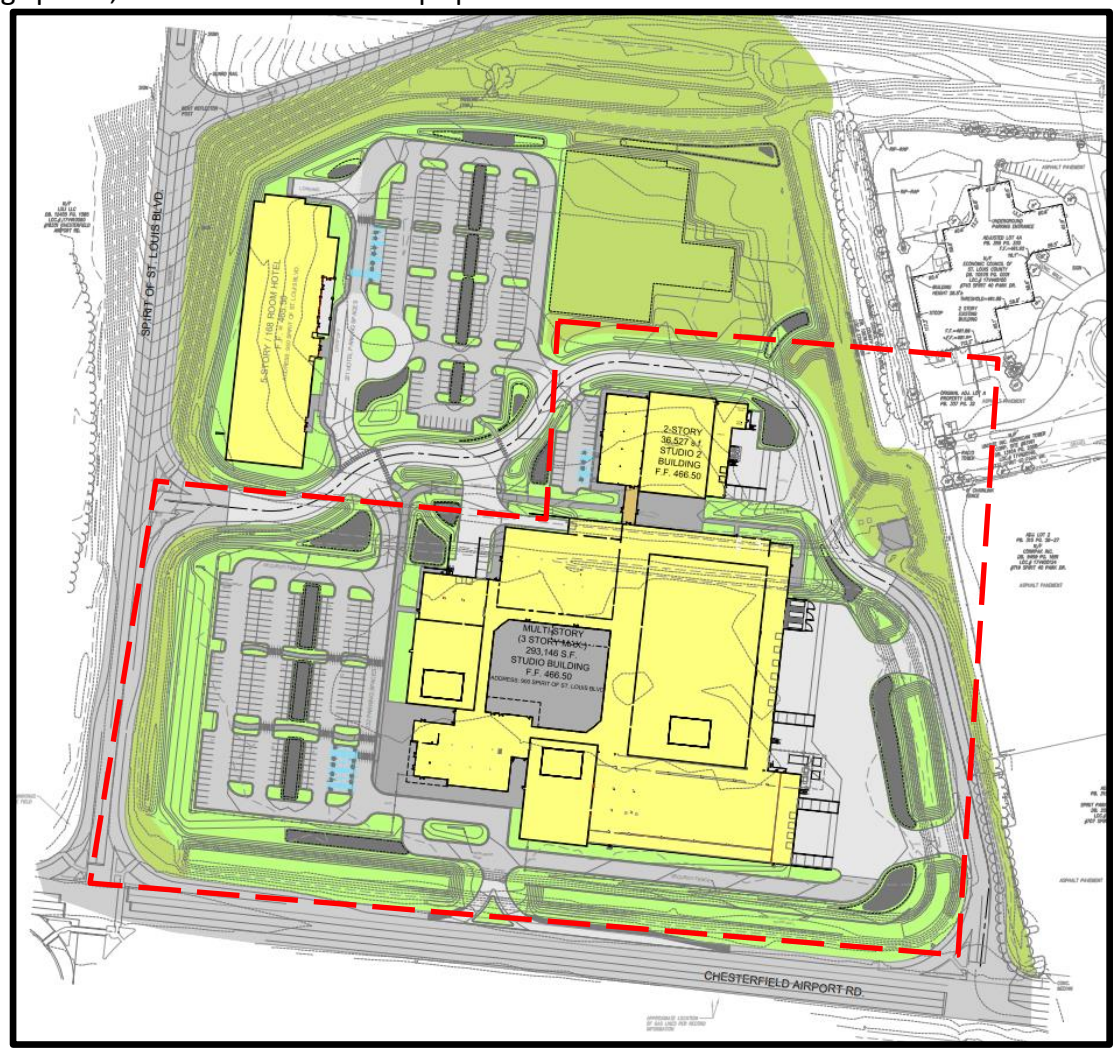


Figure 2: Color Site Plan

Topography, Retaining Walls, and Parking

The existing site's natural topography and slope will be maintained wherever possible. A retaining wall is proposed along the southern property line in front of the Main Building. This retaining wall will be located behind the 30-foot landscape buffer along Chesterfield Airport Rd. and include a black decorative fence guardrail. The gray concrete block material of the retaining wall will complement the material and color scheme of the proposed buildings on site.

General Requirements for Building Design:

A. Scale

The entrance to the Main Building is through the three-story office space portion of the building that stands 54 feet in height. Three large studio spaces surround the all glass office building. These studio spaces are known as Studio 65, Studio 75 and Studio 80 and stand at 80 feet, 88' 6", and 99' 6" respectively. Studio support space connects the studio buildings and does not exceed 54 feet in

height, matching the height of the office building. The Main Building will total approximately 293,146 square feet of studio, office support space.
Studio 2 is a separate building located to the north of the Main Building. Studio 2 will connect to the Main Building via an all glass enclosed pedestrian walkway. The Studio 2 building will be a total of 36,527 square feet and stand 50 feet in height at its highest point. This two-story building will be comprised of a studio, office and dock area.

Figure 3: Rendering of Main Building facing Chesterfield Airport Rd.

Figure 4: Rendering of Studio 2's West Elevation

B. Design

The Main Building has three different design components. The first showcases the three-story office space. The office is designed as the entry way to the building, facing the plaza and parking lot. The office is all glass with steel wood panel accents and recessed metal canopies at the entrance points.

The second type of design serves the three studio spaces. These are large, private studios for recording, rehearsing and filming. The acoustics require insulated walls with minimal openings. The design of these spaces use tilt-up concrete panels with an exposed concrete pattern on the exterior. The last design element is used for the studio support buildings housing the storage, loading docks, kitchen, and recreation spaces. These areas are designed to contrast the light gray studio walls by using a dark gray integrally colored concrete. These three elements are all connected to make up one large Main Building. Variations in height, material, and size allow for interest for the large building, all while the different components complement each other in design and function.

The Studio 2 building utilizes similar design elements and materials as the Main Building. The office area of the Studio 2 building is all glass with steel accents connecting to the studio area which uses both the tilt-up gray concrete panels and the dark gray concrete walls. The enclosed pedestrian walkway connecting the two buildings will primarily be glass.

C. Materials and Color

The primary materials for both the Main Building and Studio 2 are showcased in both the renderings above and elevations below. The primary material used for the studio spaces is a light gray, tilt-up concrete panel with formliner panel. The exposed concrete texture will be highlighted by the formliner pattern. The support spaces will also be surrounded with concrete paneling, however will be a smooth texture and dark gray, “onyx”, color. The office and entrance areas will be all glass with black metal accents and metal canopies. Additionally, there will be some wood paneling highlighting the entrance ways. The glass will be a shade of blue/grey.

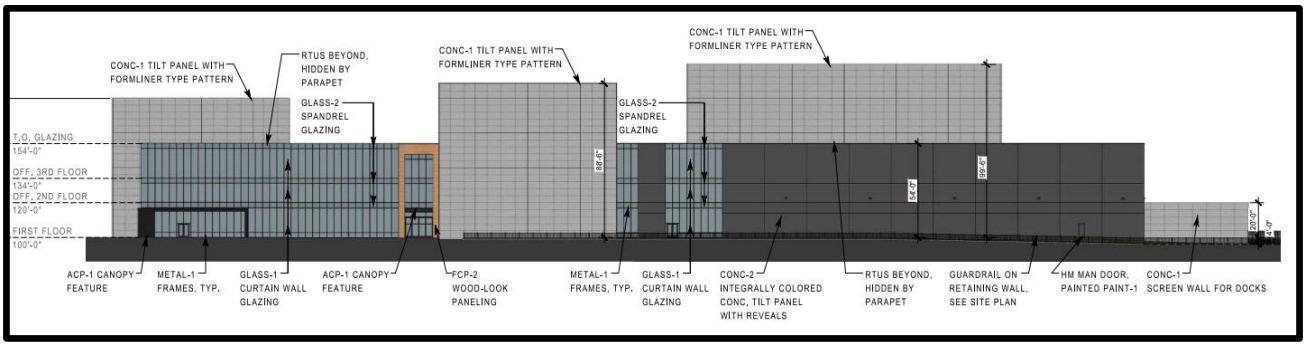


Figure 5: Main Building South Elevation

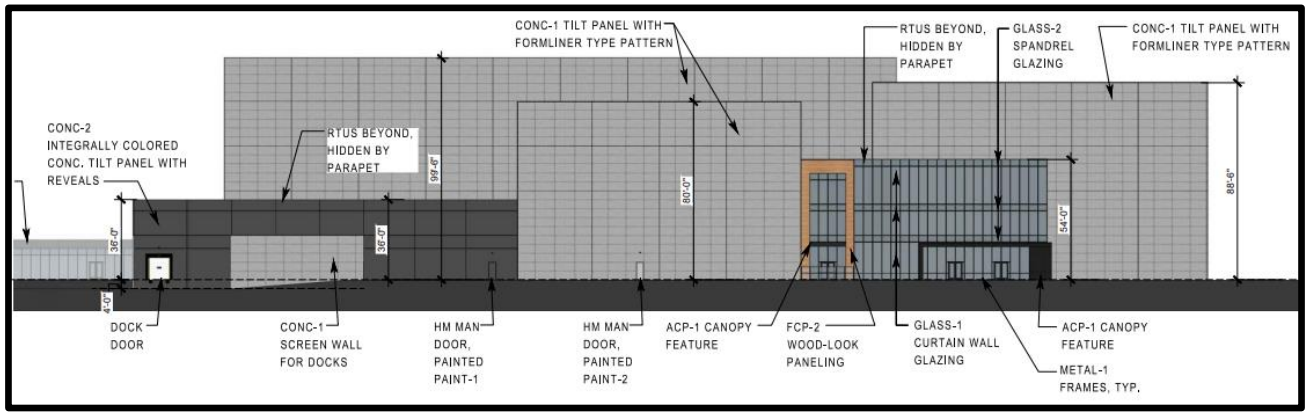


Figure 6: Main Building West Elevation

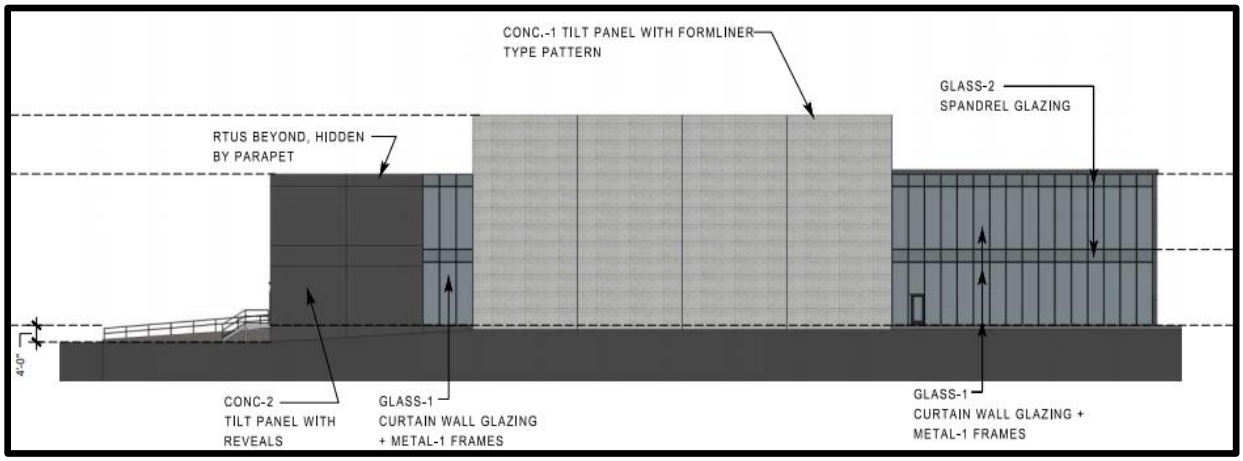


Figure 7: Studio 2 North Elevation

D. Landscape Design and Screening

Several different areas of landscaping are proposed in accordance with City Code requirements. A 30-foot landscape buffer with a variety of tree species and shrubs is proposed along Chesterfield Airport Rd. Adequate parking lot landscaping and foundation plantings is proposed as seen in Figure 8. Trees are proposed to line the internal drive and aid with screening of loading docks and trash area. Additional plantings can be found within plazas and internal courtyards. A total of 207 trees are proposed throughout Lot 1 of the development along with a variety of shrubs, perennials, and grasses. There are also fifteen appropriately landscaped bioretention areas throughout the site.

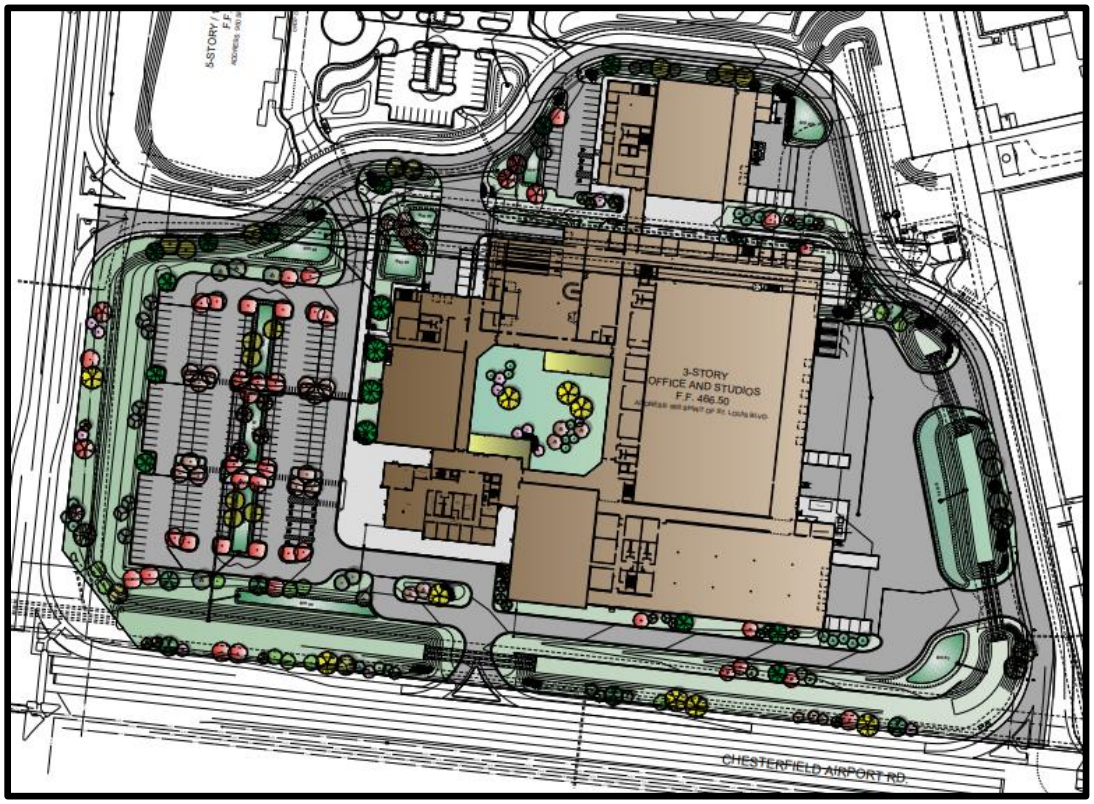


Figure 8: Landscape Plan

The loading docks and trash receptacles are located on the eastern façades of both the Main Building and Studio 2 with some additional loading docks located on the northern façade of the Main Building. The placement of these areas on the site is to minimize the visual impact from the surrounding roadways. The trash enclosures will be constructed of the same concrete materials as the buildings and include matching black metal gates and canopies. The loading dock areas are screened with a wall 20 feet in height and 60 feet in length and built using the similar concrete panel walls as the building.

Mechanical units will be placed on the rooftops of the buildings and screened by the proposed parapet walls. The mechanical units will not be visible from the property lines or from within the site itself.

E. Signage

Signage is not part of the proposal before the Architectural Review Board and will be reviewed separately.

F. Lighting

An Architectural Specialty Lighting Package is currently under review for the site. All site lighting will be reviewed as a part of that package.

Site lighting is proposed for the parking area as required by City Code. All fixtures are utilitarian in nature and feature fully-shielded, flat lens, enclosed luminaires.

ADDITIONAL DESIGN STANDARDS/POLICIES

The following Chesterfield Valley Sub-Area Policy and Chesterfield Valley Design Policies are relevant to this development:

Building Facades: Utilize architectural elements from the front façade on the side and rear of the structure.
All architectural elements and materials are carried out throughout the design of the building and are present on every façade. The proposed buildings will be visible from roadways on three sides and the development and have designed the building in response to that.

Parking: Locate parking primarily to the side or rear of any building façade facing I-64/US 40 or along North Outer 40.
The proposed parking area that serves the Main Building is located to the west of the building and is not located between the front façade and roadway.

Screening: Screening of loading areas and trash materials with materials that are consistent to that of the building.
The proposed loading dock and trash receptacles are located in order to minimize visual impact. The areas are screened by both concrete walls that match the building's materials as well as landscaping. They are positioned so that they primarily face east and not Chesterfield Airport Rd., Spirit of St. Louis Blvd., or Highway 40/Interstate 64.

DEPARTMENT INPUT

Be advised, this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

Staff requests review and recommendation on this submittal for Spirit of St. Louis Corporate Center, Lot 1 (Gateway Studios).

MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Spirit of St. Louis Corporate Center, Lot 1 (Gateway Studios) as presented, with a recommendation for approval (or denial) to the Planning Commission."

2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Spirit of St. Louis Corporate Center, Lot 1 (Gateway Studios) to the Planning Commission with the following recommendations…"

Attachments

1. Architectural Review Packet Submittal

MAIN BUILDING + STUDIO 2 | ARB Submission

GMA JOB NUMBER: SJ2324

REVISED 04.22.2021 DATE: 03.22.2021

ARCO NATIONAL CONSTRUCTION + ARCO CONSTRUCTION THE DESIGN|BUILD PEOPLE

GMA ARCHITECTS

MAIN BUILDING + STUDIO 2 | Site Plan

GATEWAY STUDIOS AND HOTEL

PREPARED FOR:
GATEWAY STUDIOS, LLC
JENKINS & KLING, P.C.
150 NORTH MERAMEC AVE., SUITE 400
CLAYTON, MO. 63105
ATTN: MR. STEPHEN L. KLING, JR., ESQ.

PREPARED BY:
STOCK & ASSOCIATES Consulting Engineers, Inc.
257 Chesterfield Business Parkway
St. Louis, MO 63005 PH. (636)
530-9090 FAX (636) 530-8909
e-mail: mail@stockassoc.com
Web: www.stockassoc.com

SITE DEVELOPMENT SECTION PLAN FOR:

GATEWAY STUDIOS

GATEWAY STUDIOS AND HOTEL

900 SPIRIT OF ST. LOUIS BLVD.
CHESTERFIELD, MISSOURI 63005

GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY
NUMBER: 000996

REVISIONS:

DRAWN BY: J.E.F.	CHECKED BY: G.M.S.
DATE: 02/26/2021	JOB NO: 220-6874
M.S.D. P #:	BASE MAP #: 17V1
S.L.C. H&T #:	H&T S.U.P. #:
M.D.N.R. #:	

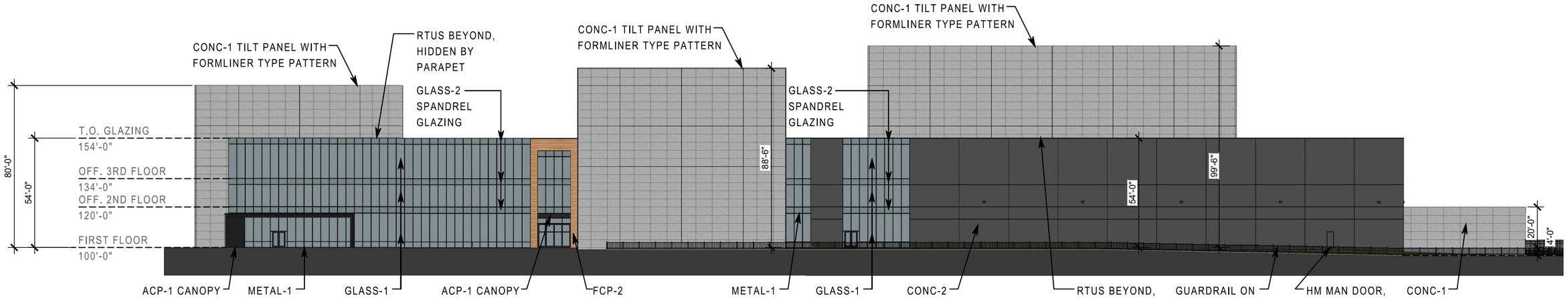
SHEET TITLE:
SITE DEVELOPMENT PLAN

SHEET NO.:
1.0

MAIN BUILDING + STUDIO 2 | Elevations

GATEWAY STUDIOS | CHESTERFIELD, MO

GMA JOB NUMBER: SJ2324 DATE:04.22.2021



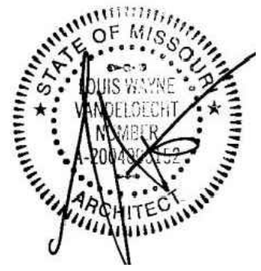
MAIN BUILDING | SOUTH ELEVATION

1" = 50' (11X17 SHEET)

NOTE: ROOF TOP EQUIPMENT WILL BE LOCATED ON THE LOWER ROOFS (NOT THE STUDIO ROOFS) AND SCREENED THOUGH THE CONCRETE TILT WALL PARAPET

MATERIAL LEGEND

CONC-1	CONCRETE WITH FORMLINER
CONC-2	INTEGRAL COLORED CONCRETE, COLOR: 'ONYX' BY SOLOMON READY-MIX
ACP-1	ALUMINUM COMPOSITE PANEL, ALUCOBOND, COLOR: CHARCOAL, GLOSS 10%
FCP-2	FIBER CEMENT PANEL, NICHIHA, COLOR: CEDAR
GLASS-1	VIRACON VRE19-46 INSULATED VISION GLAZING
GLASS-2	VIRACON VRE19-46 SPANDREL GLAZING
METAL-1	BLACK ANODIZED THERMALLY BROKEN FRAMES FOR GLAZING
METAL-2	FIRESTONE MATTE BLACK FOR DOCK CANOPIES
PAINT-1	TO MATCH CONC-1
PAINT-2	TO MATCH CONC-2



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GATEWAY STUDIOS | CHESTERFIELD, MO

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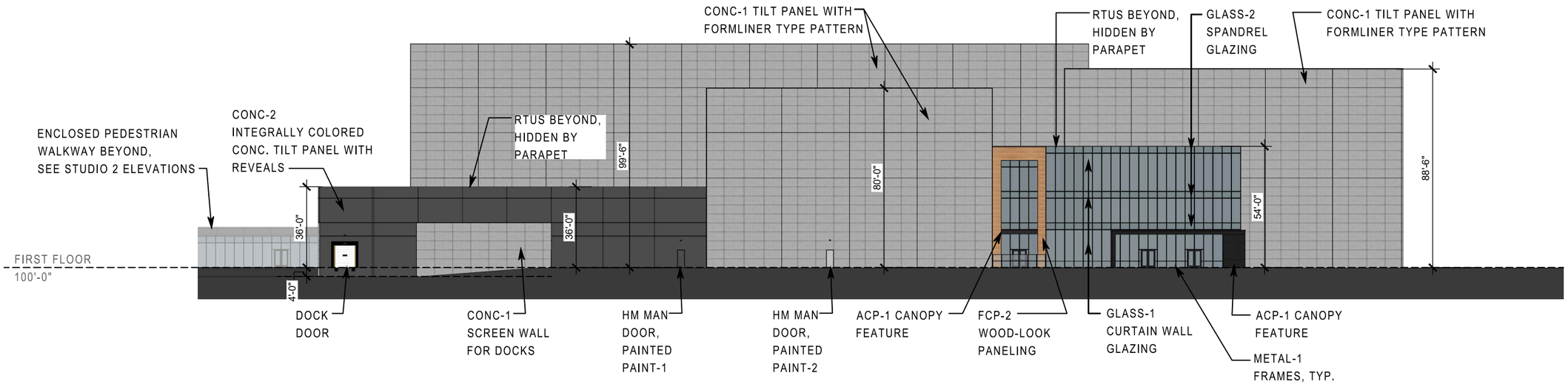

MAIN BUILDING | WEST ELEVATION

1" = 50' (11X17 SHEET)

NOTE: ROOF TOP EQUIPMENT WILL BE LOCATED ON THE LOWER ROOFS (NOT THE STUDIO ROOFS) AND SCREENED THOUGH THE CONCRETE TILT WALL PARAPET

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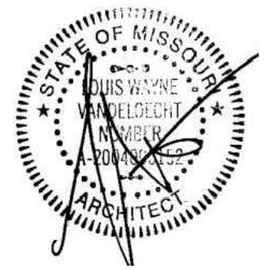
PAINT-2	TO MATCH CONC-2



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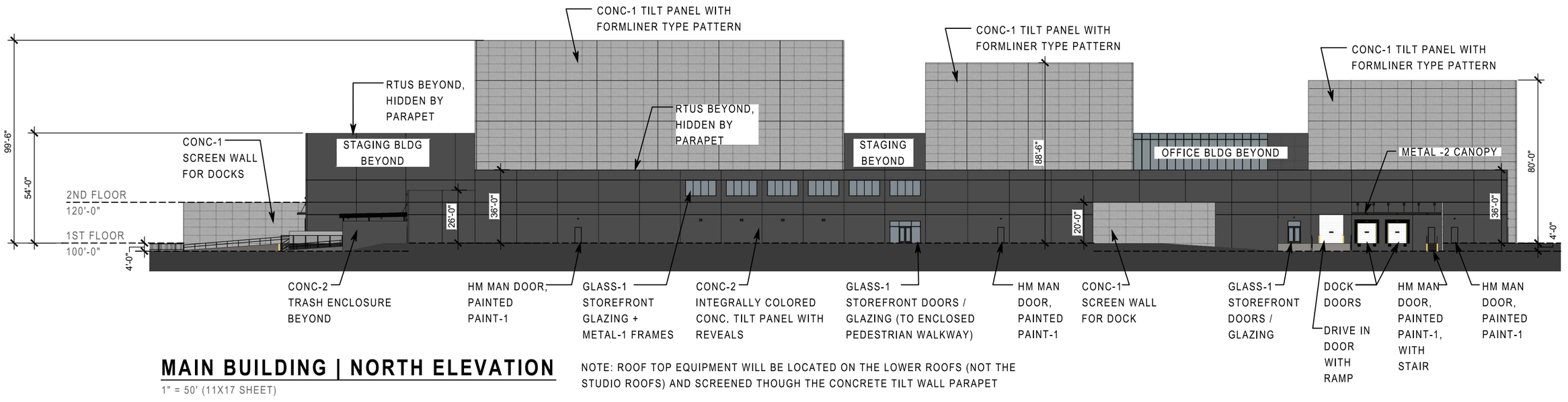
GMA JOB NUMBER: SJ2324 DATE:04.22.2021



MAIN BUILDING | NORTH ELEVATION

1" = 50' (11X17 SHEET)

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GATEWAY STUDIOS | CHESTERFIELD, MO

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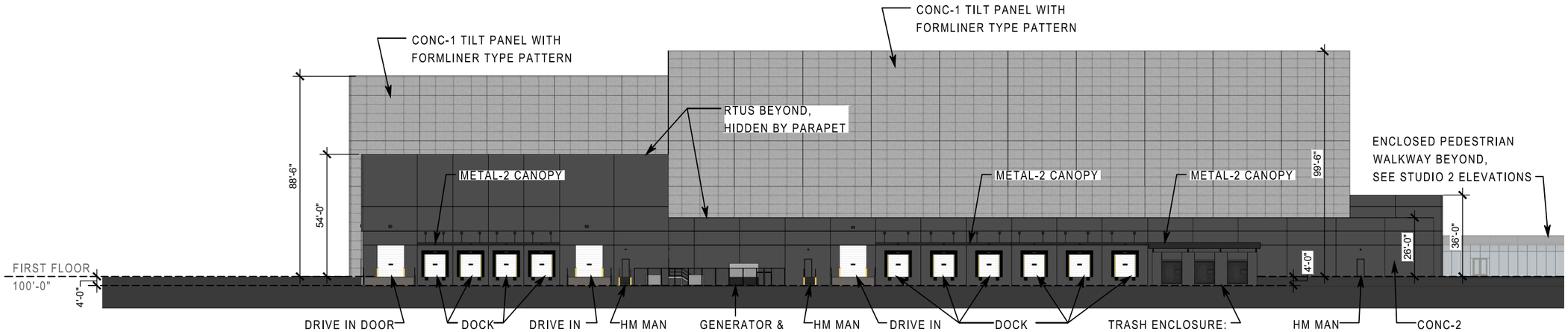

MAIN BUILDING | EAST ELEVATION

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PAINT-2	TO MATCH CONC-2

STATE OF MISSOURI
LOUIS WAYNE VANDELOECHT
NUMBER A-2004030152
ARCHITECT

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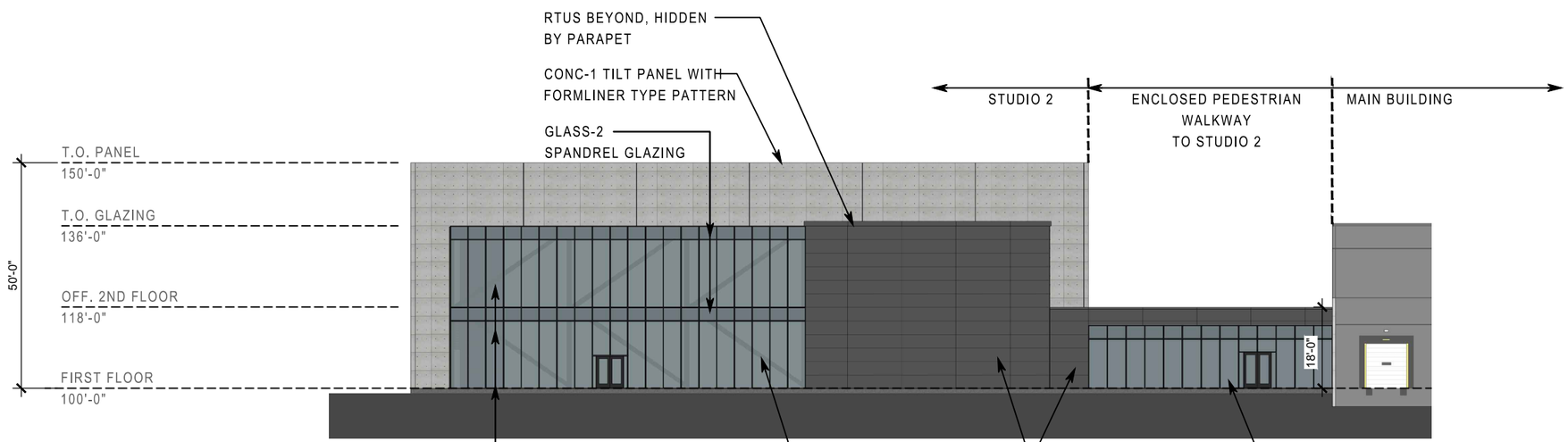
GATEWAY STUDIOS | CHESTERFIELD, MO

GMA JOB NUMBER: SJ2324 DATE:04.22.2021



STUDIO 2 | WEST ELEVATION

1" = 30' (11X17 SHEET)

NOTE: ROOF TOP EQUIPMENT WILL BE LOCATED ON THE LOWER ROOFS (NOT THE STUDIO ROOF) AND SCREENED THOUGH THE PARAPETS

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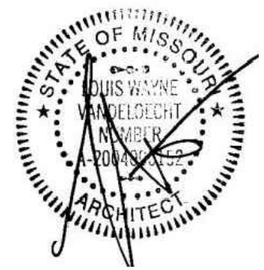
PAINT-1	TO MATCH CONC-1



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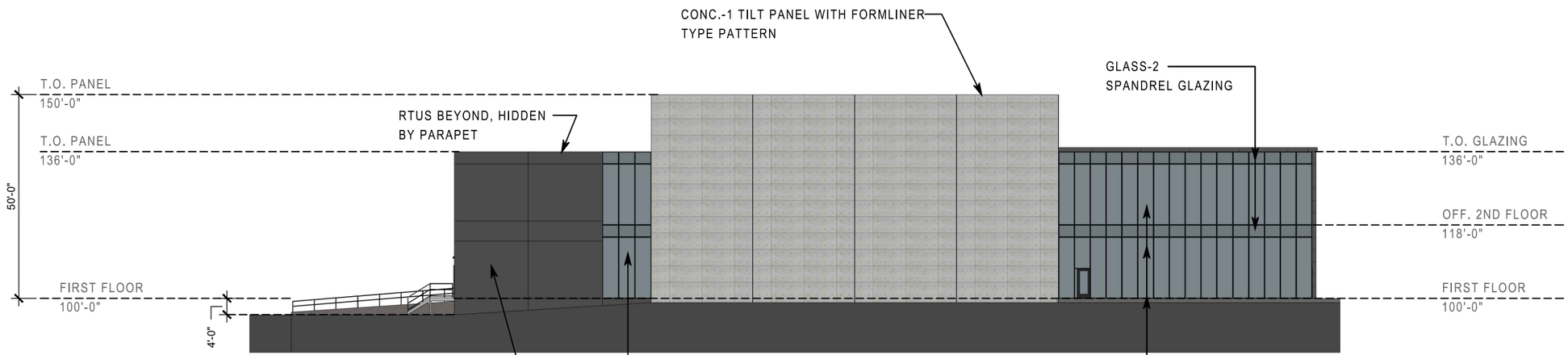

STUDIO 2 | NORTH ELEVATION

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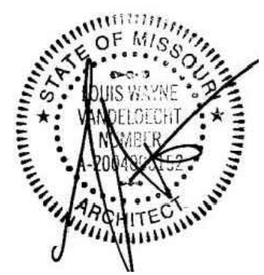

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THE DESIGN|BUILD PEOPLE

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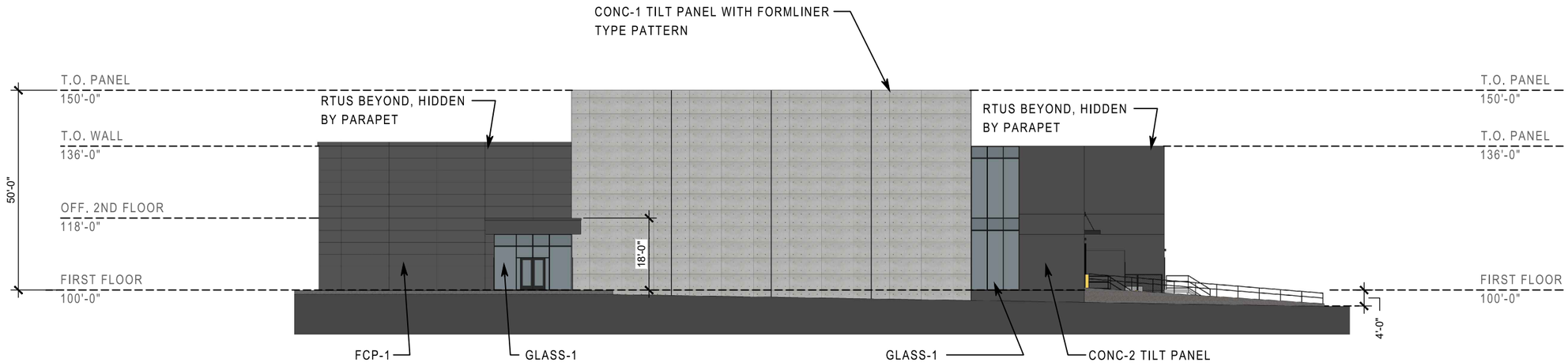

CURTAIN WALL GLAZING + METAL-1 FRAMES (FOR PEDESTRIAN WALKWAY)

CURTAIN WALL GLAZING + METAL-1 FRAMES

WITH REVEALS

STUDIO 2 | SOUTH ELEVATION

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STATE OF MISSOURI
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GATEWAY STUDIOS | CHESTERFIELD, MO

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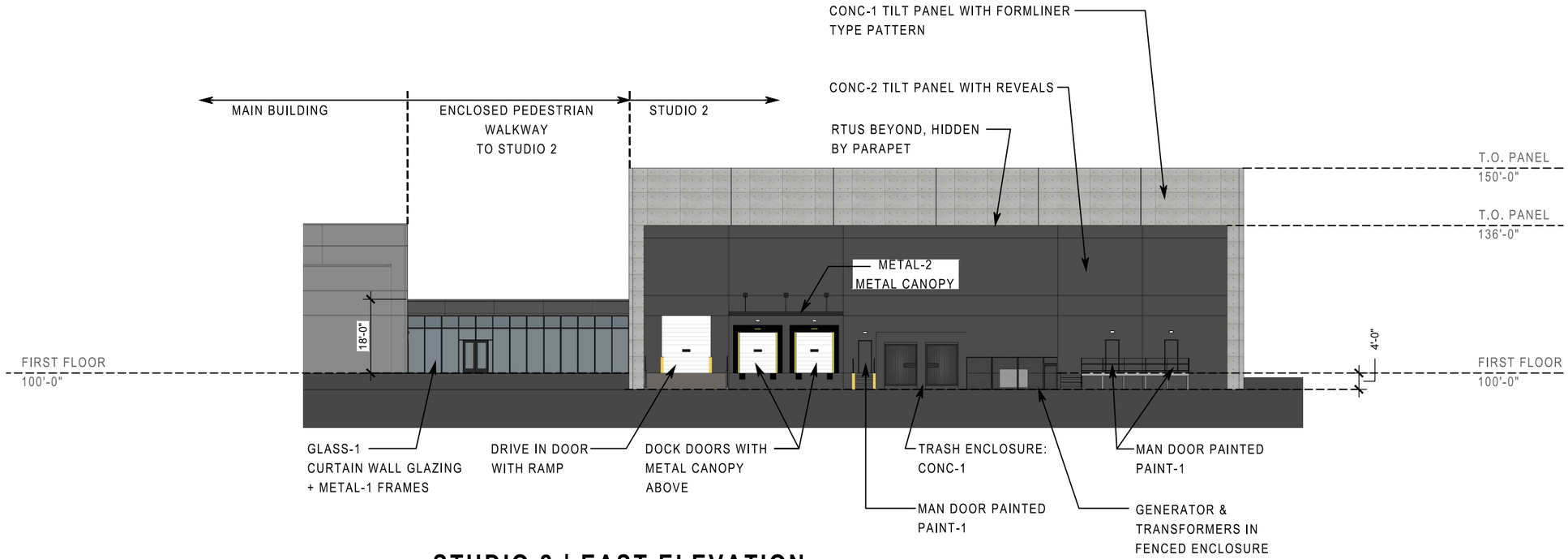

STUDIO 2 | EAST ELEVATION

1" = 50' (11X17 SHEET)

NOTE: ROOF TOP EQUIPMENT WILL BE LOCATED ON THE LOWER ROOFS (NOT THE STUDIO ROOF) AND SCREENED THOUGH THE PARAPETS

MATERIAL LEGEND

CONC-1	CONCRETE WITH FORMLINER
CONC-2	INTEGRAL COLORED CONCRETE, COLOR: 'ONYX' BY SOLOMON READY-MIX
FCP-1	FIBER CEMENT PANEL, NICHIHA, COLOR: MIRAIA ONYX
GLASS-1	VIRACON VRE19-46 INSULATED VISION GLAZING
GLASS-2	VIRACON VRE19-46 SPANDREL GLAZING
METAL-1	BLACK ANODIZED THERMALLY BROKEN FRAMES FOR GLAZING
METAL-2	FIRESTONE MATTE BLACK FOR DOCK CANOPIES
PAINT-1	TO MATCH CONC-1

STATE OF MISSOURI
LOUIS WAYNE VANDELOECHT
NUMBER A-2004030152
ARCHITECT

GMA ARCHITECTS, INC.
CONCEPTUAL DRAFT ONLY

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MAIN BUILDING + STUDIO 2 | Front Façade Rendering

MAIN BUILDING – FRONT FAÇADE

Note: Power poles not shown for clarity

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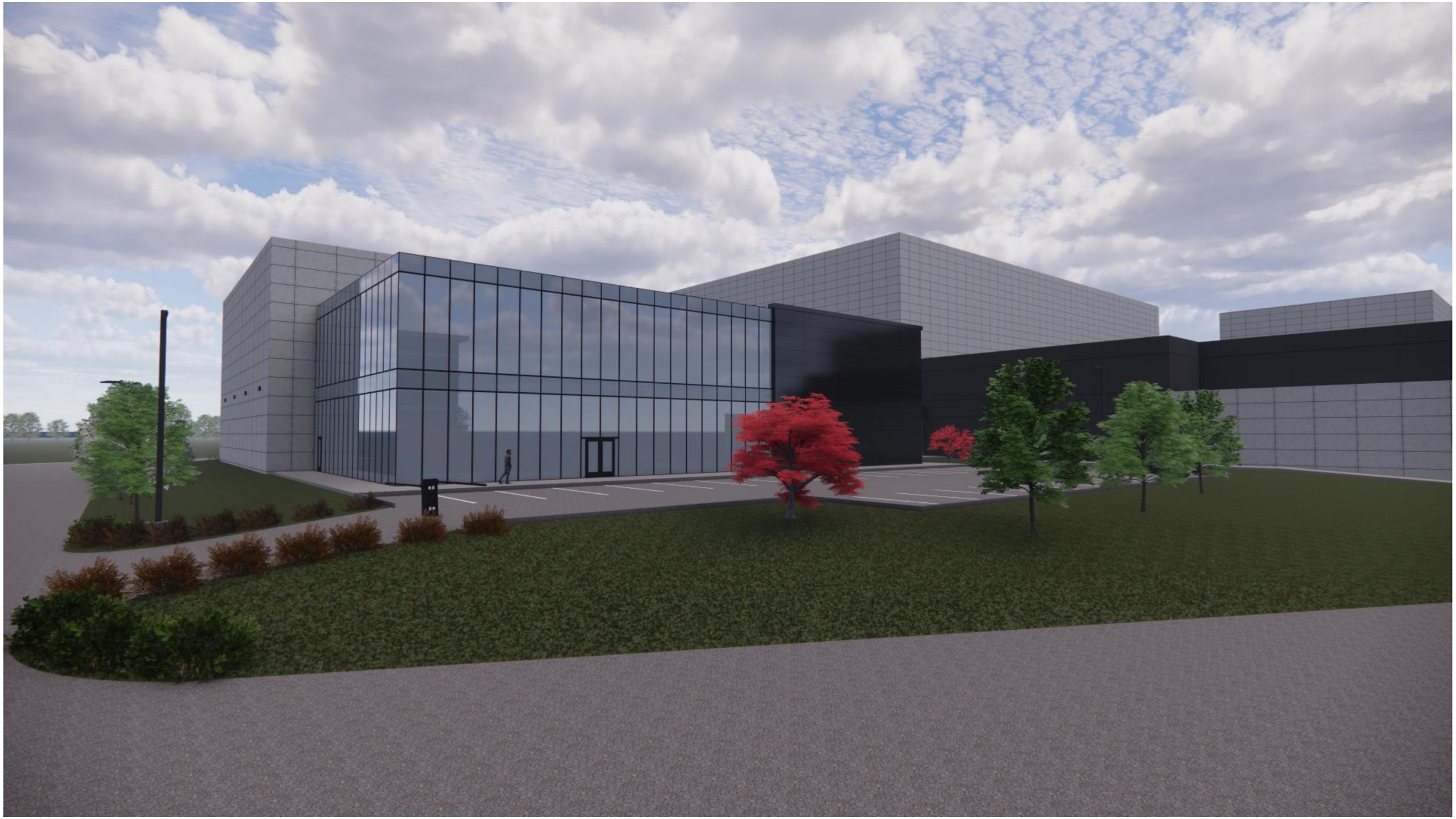

STUDIO 2

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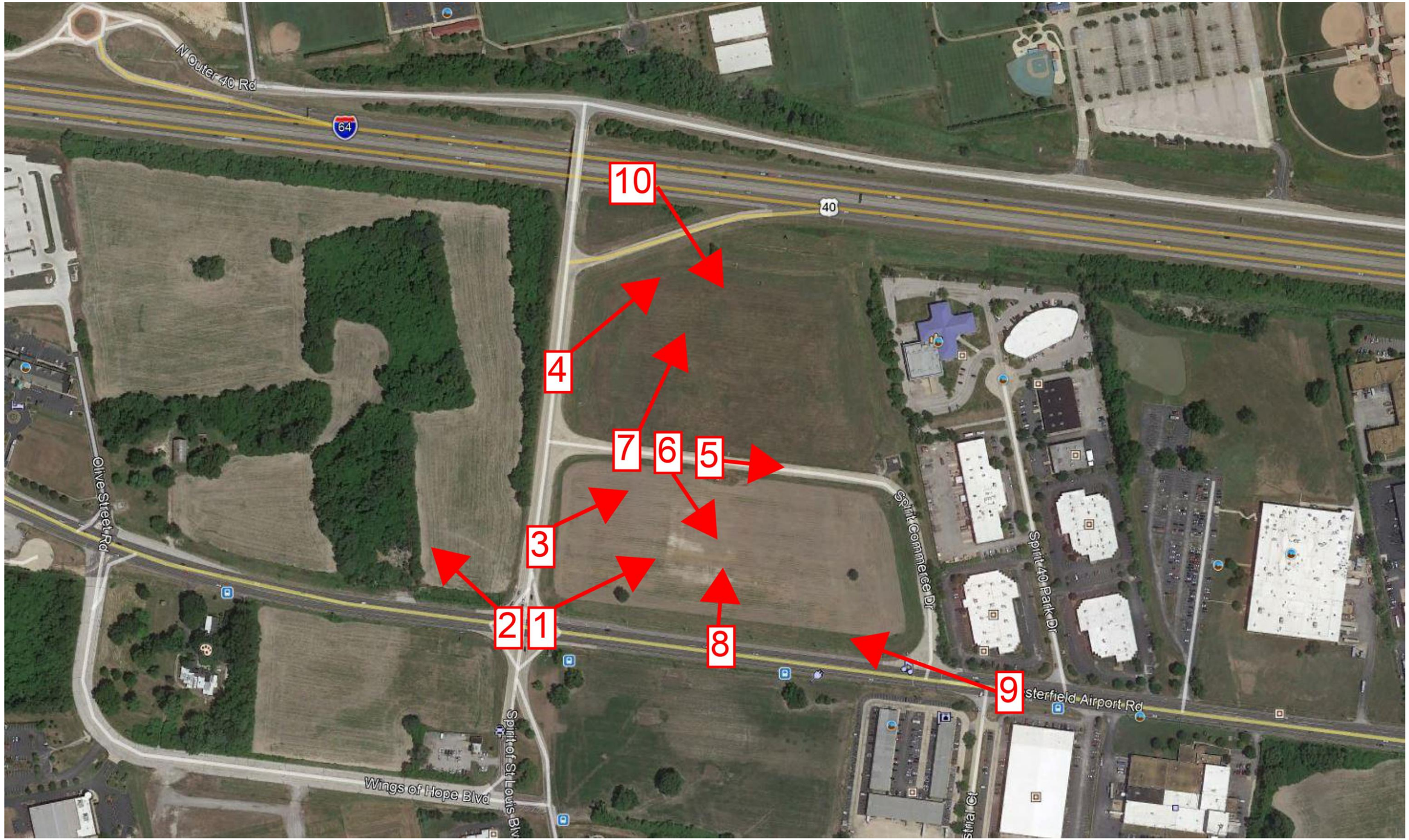
MAIN BUILDING + STUDIO 2 + HOTEL | Photos of Site



SITE - VIEWS

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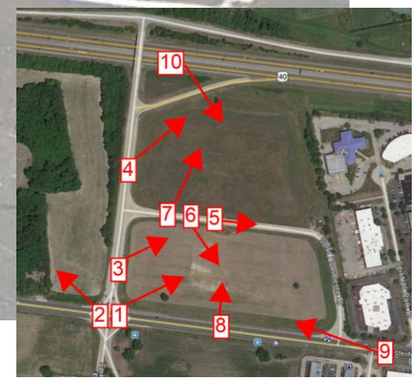

VIEW 1

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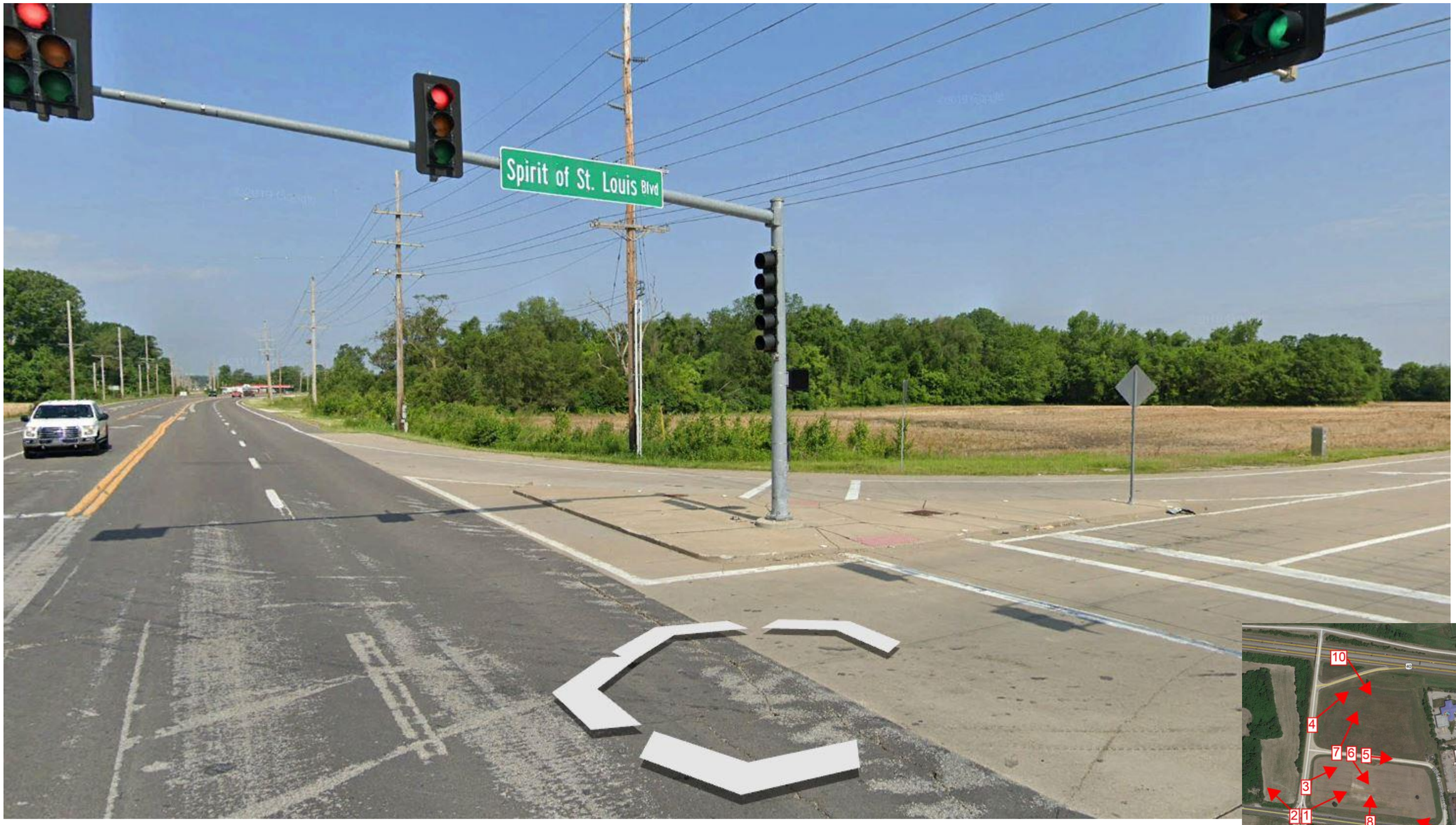
GMA ARCHITECTS



VIEW 2

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VIEW 3

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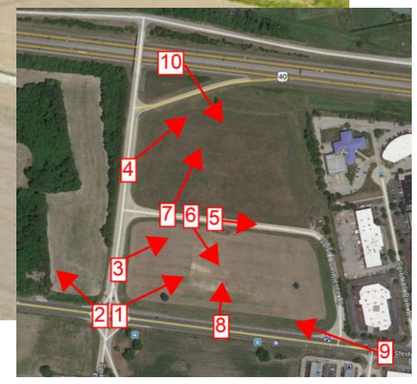
GMA ARCHITECTS



VIEW 4

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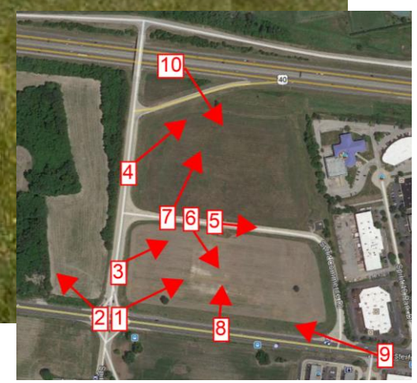

VIEW 5

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GMA ARCHITECTS

VIEW 6

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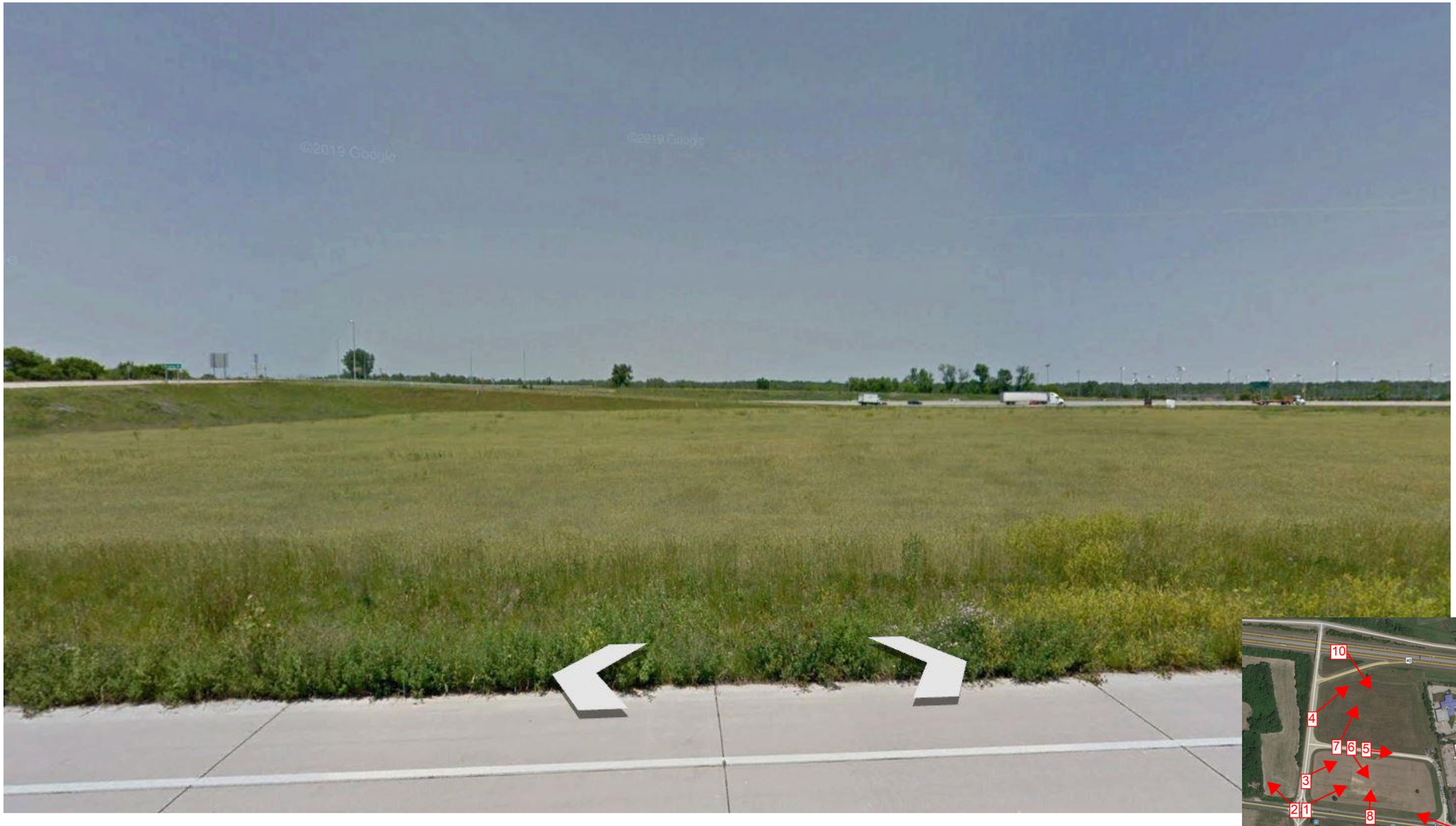
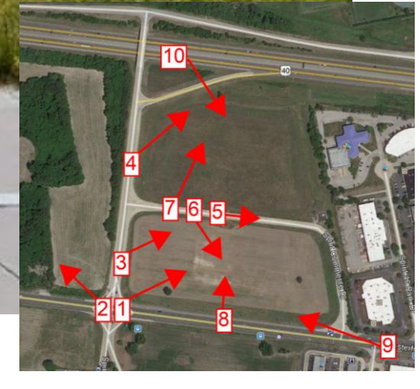
GMA ARCHITECTS





VIEW 7

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VIEW 8

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GMA ARCHITECTS

VIEW 9

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VIEW 10

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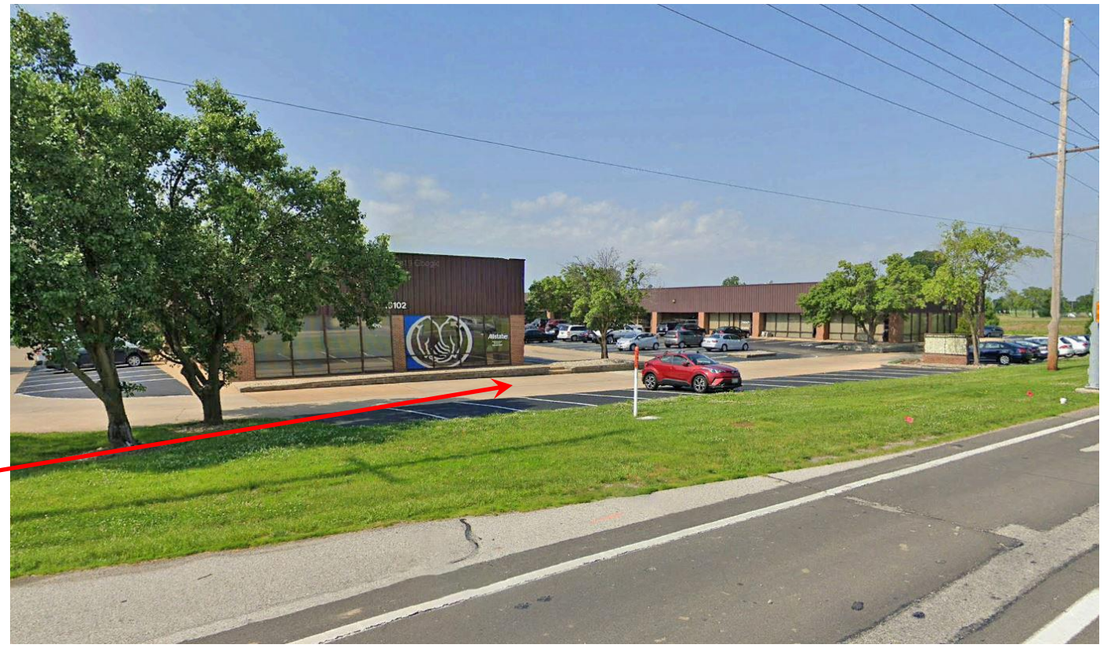
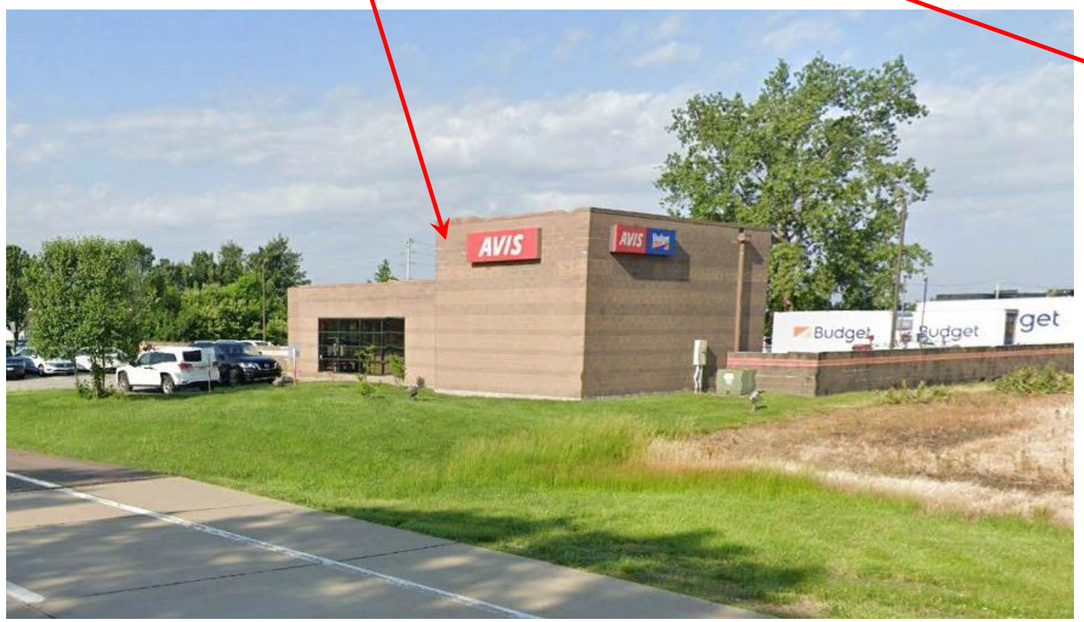
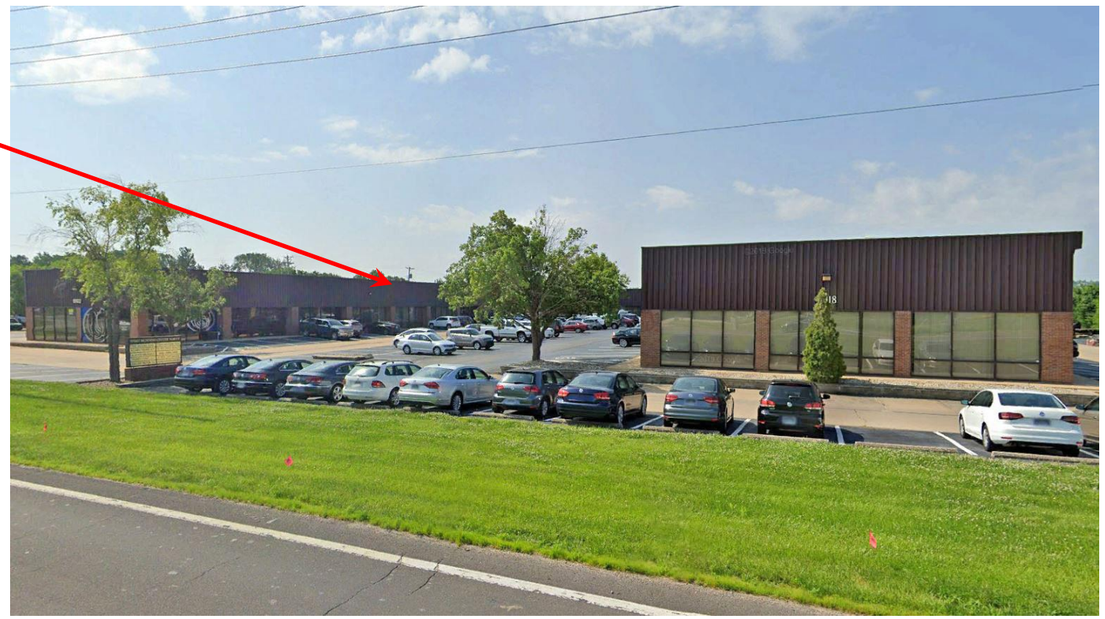
MAIN BUILDING + STUDIO 2 + HOTEL | Adjacent Uses





AVIS Chesterfield Rent-A-Car



OFFICE CENTER with various companies including Holthaus Realty & Development and Heartlands Building Company (General Contractor)

SPIRIT 40 PARK – Jordan Lawrence Group – Legal Services

StoneTrends – Countertop Fabricator

SPIRIT 40 PARK – Manna Pro, Hindman Group

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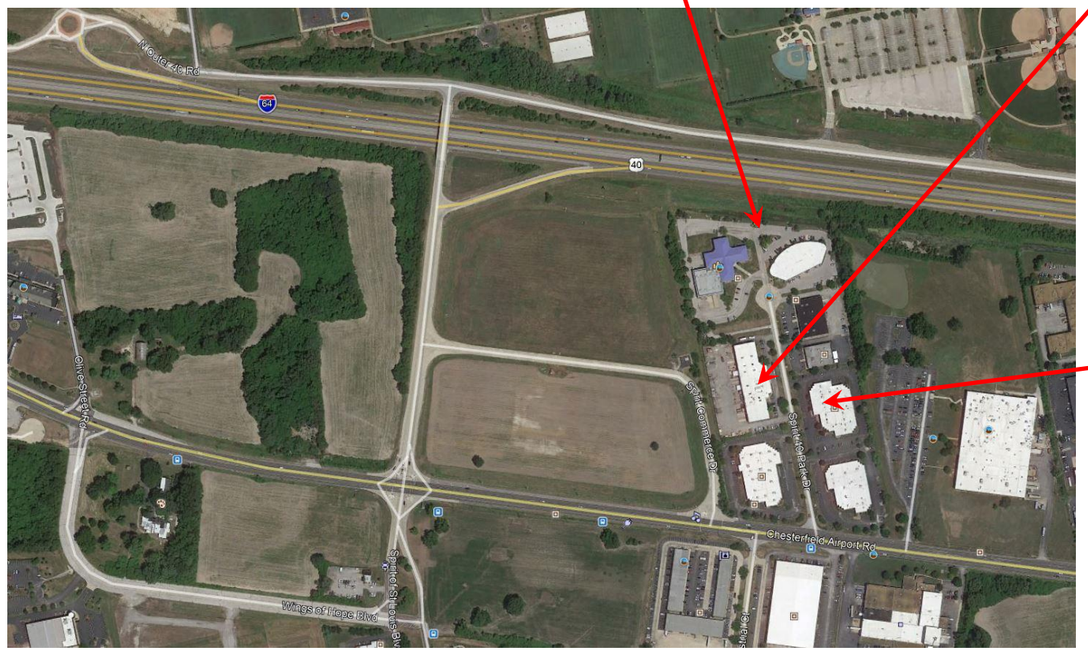
SPIRIT 40 PARK – View from Interstate - Offices



SPIRIT 40 PARK – Corrpak – Sheet Metal Contractor

SPIRIT 40 PARK – Corrpak – Enterprise Medical Services

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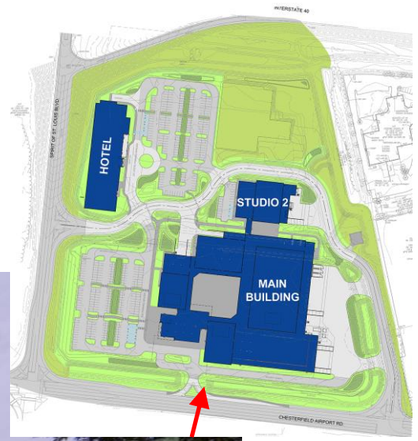
MAIN BUILDING & STUDIO 2 | Renderings showing building offsets



MAIN BUILDING FRONT FAÇADE - Power poles not shown for clarity

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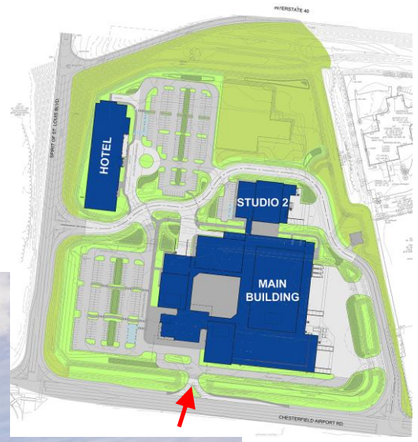

MAIN BUILDING FRONT FAÇADE - Power poles not shown for clarity

ARCO NATIONAL CONSTRUCTION

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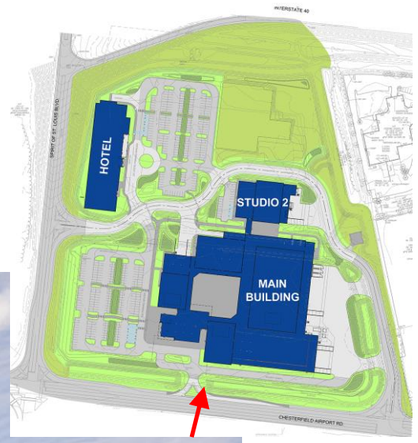

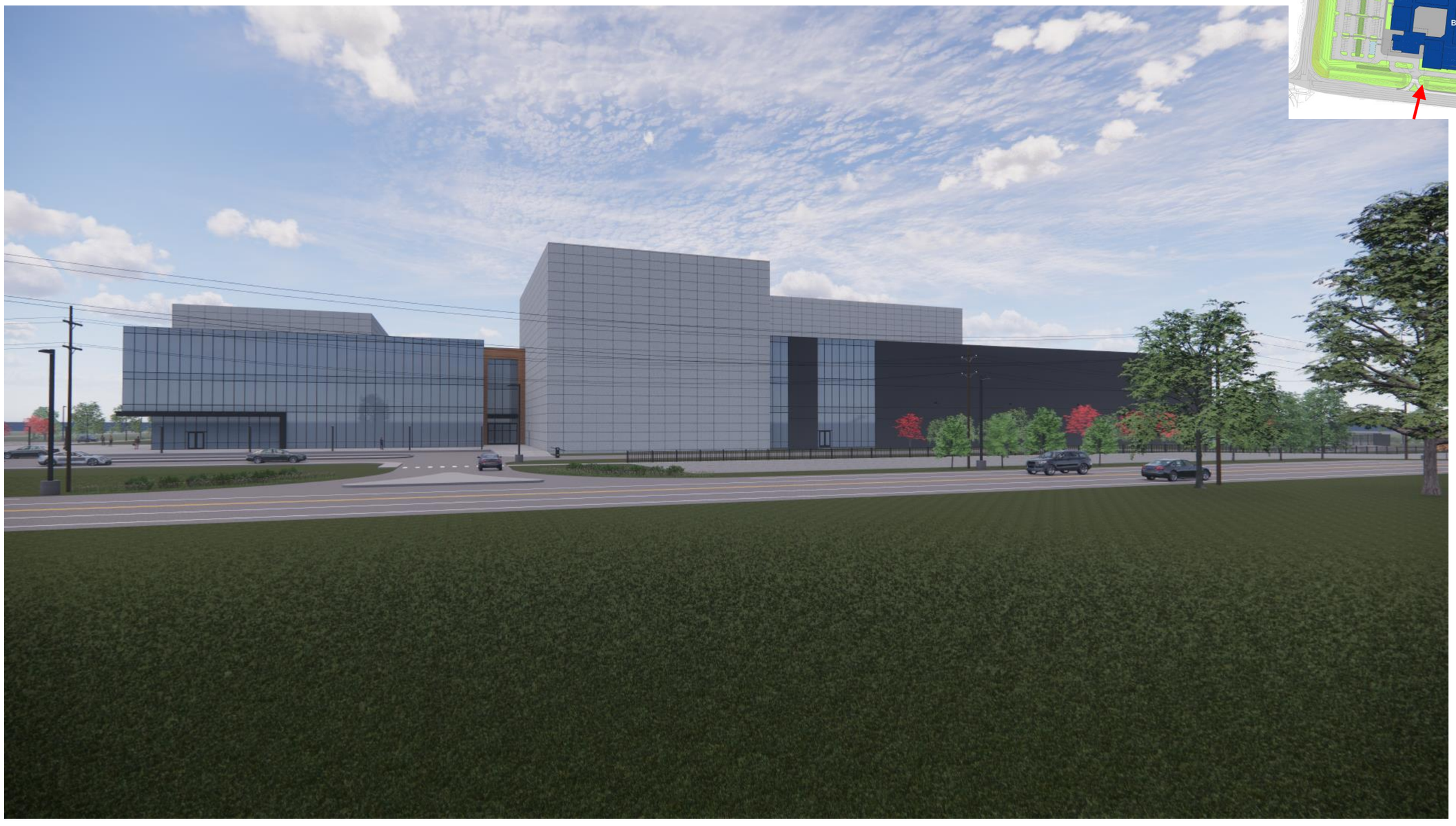

MAIN BUILDING

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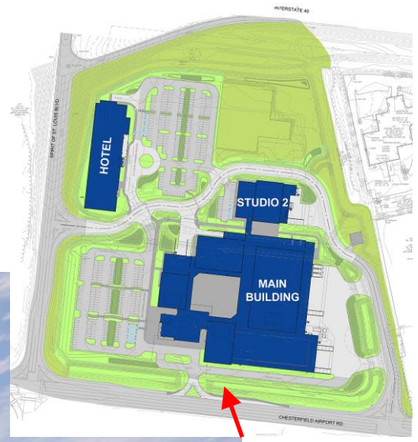

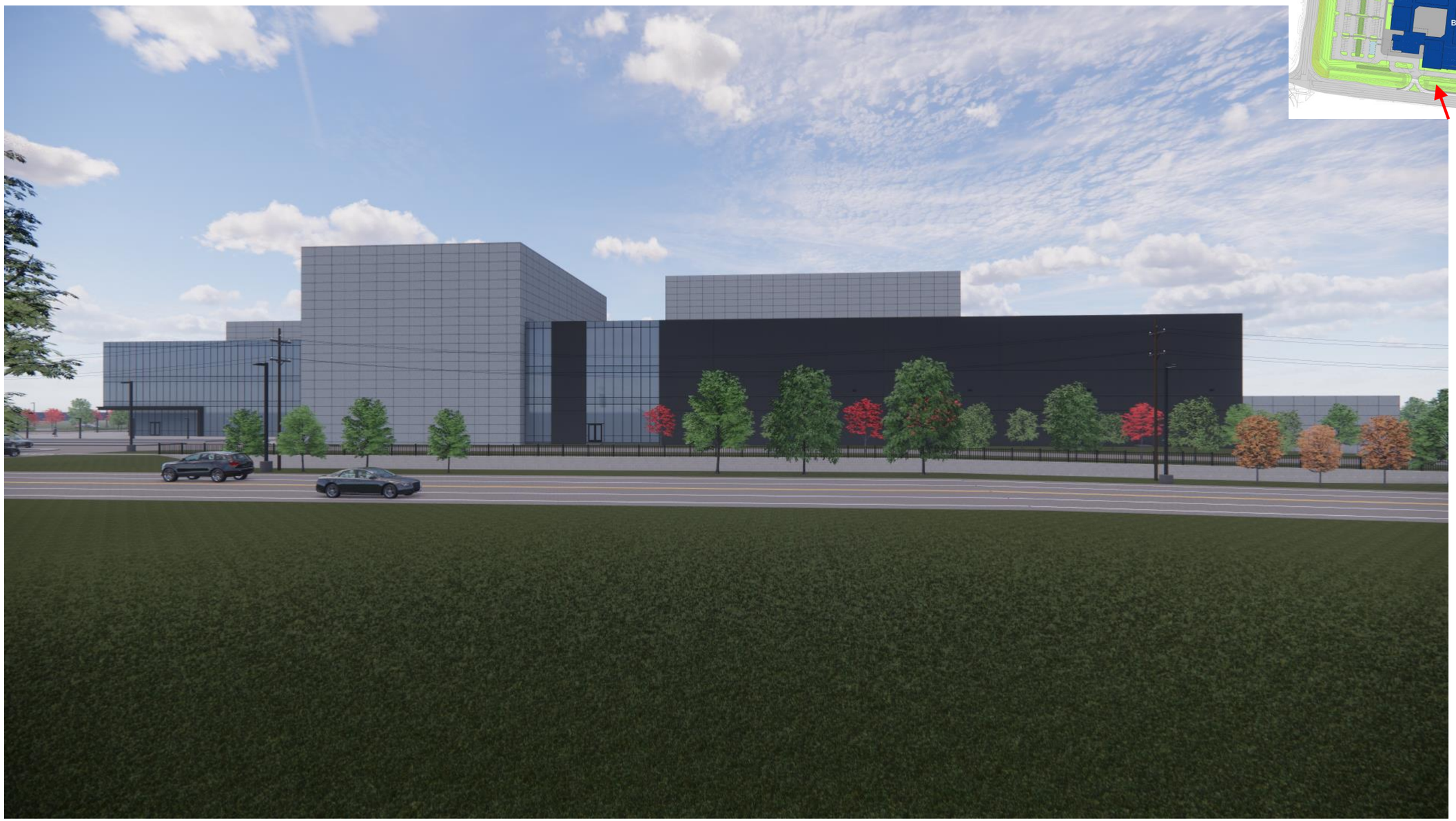

MAIN BUILDING

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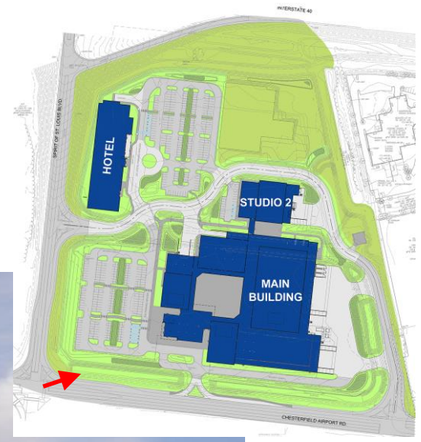

MAIN BUILDING

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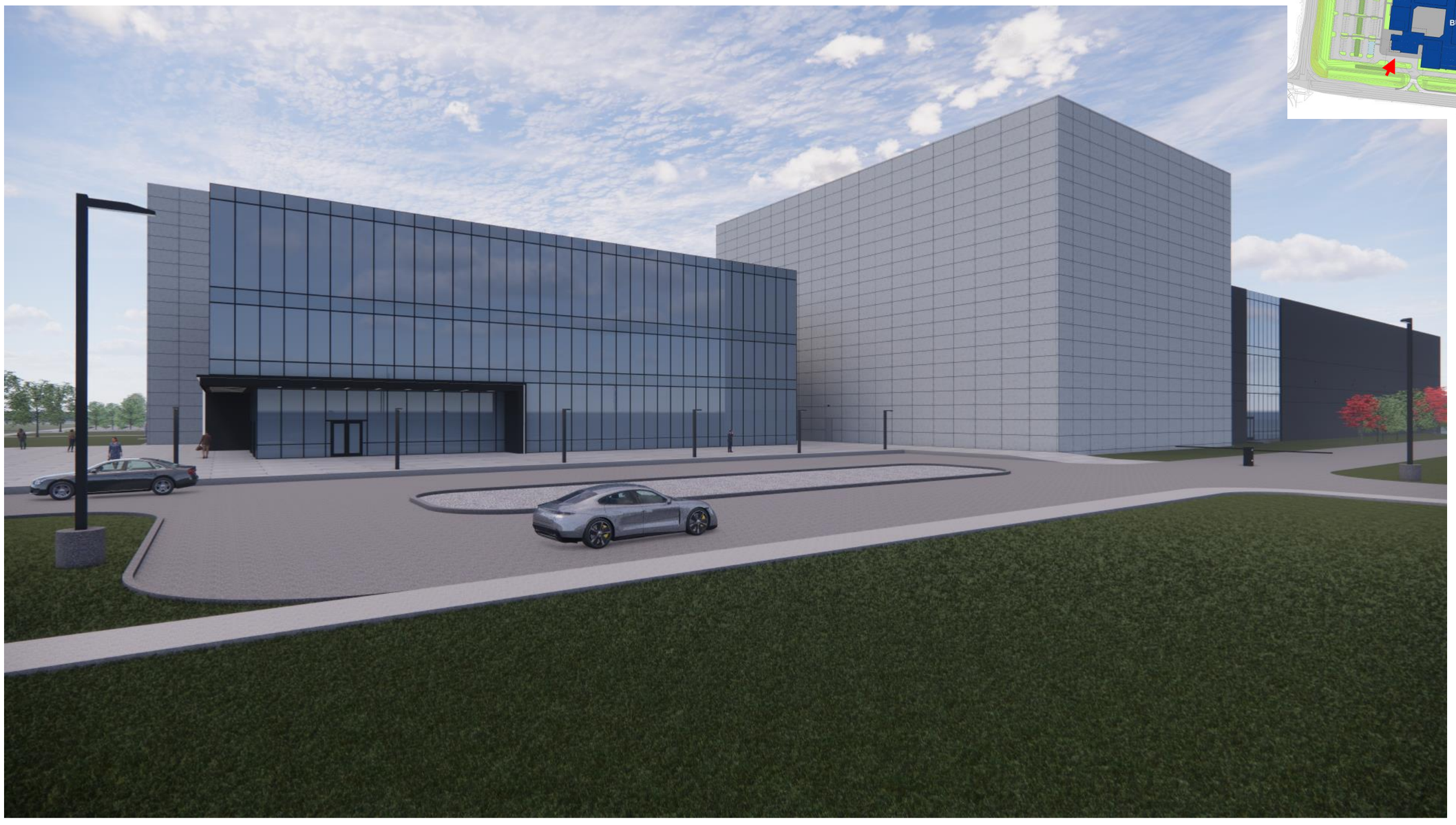

MAIN BUILDING

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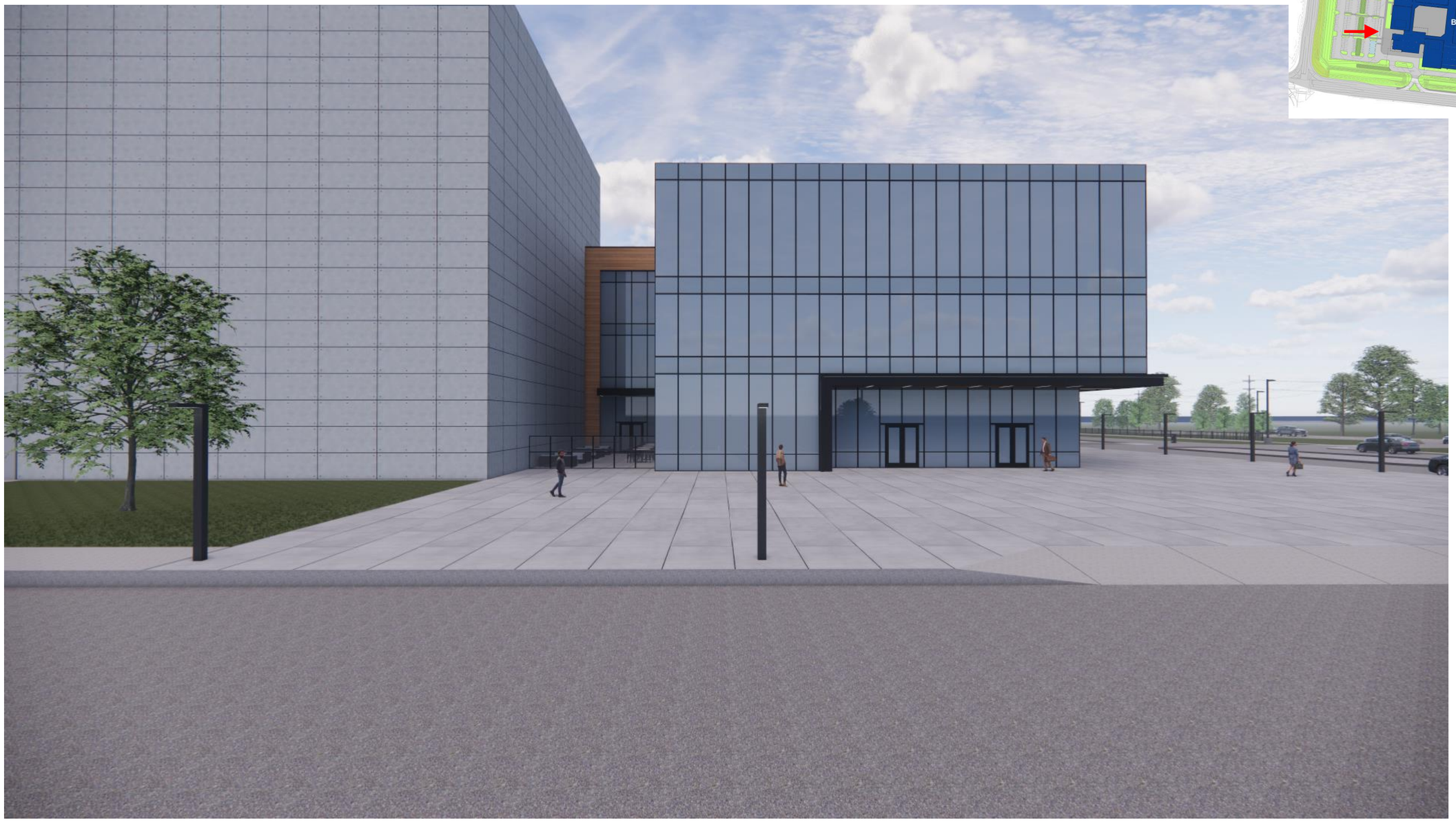

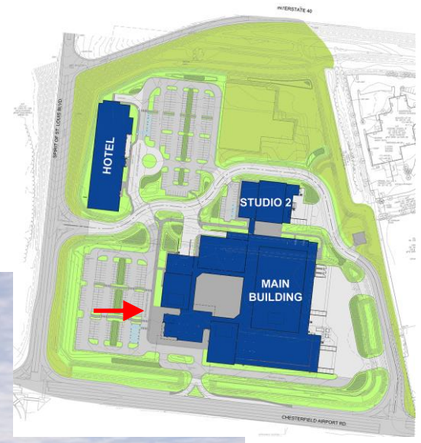

MAIN BUILDING

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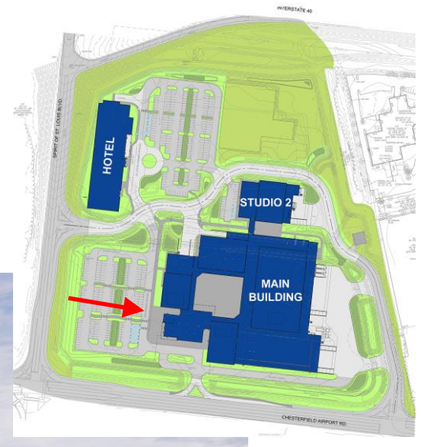

MAIN BUILDING

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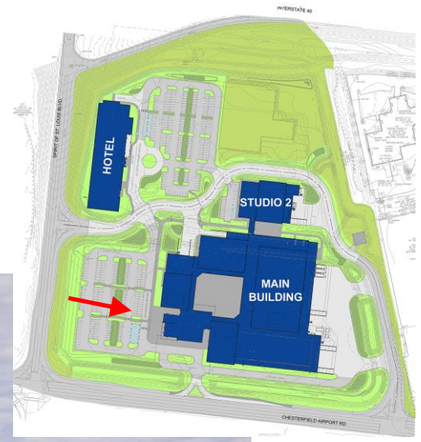

MAIN BUILDING

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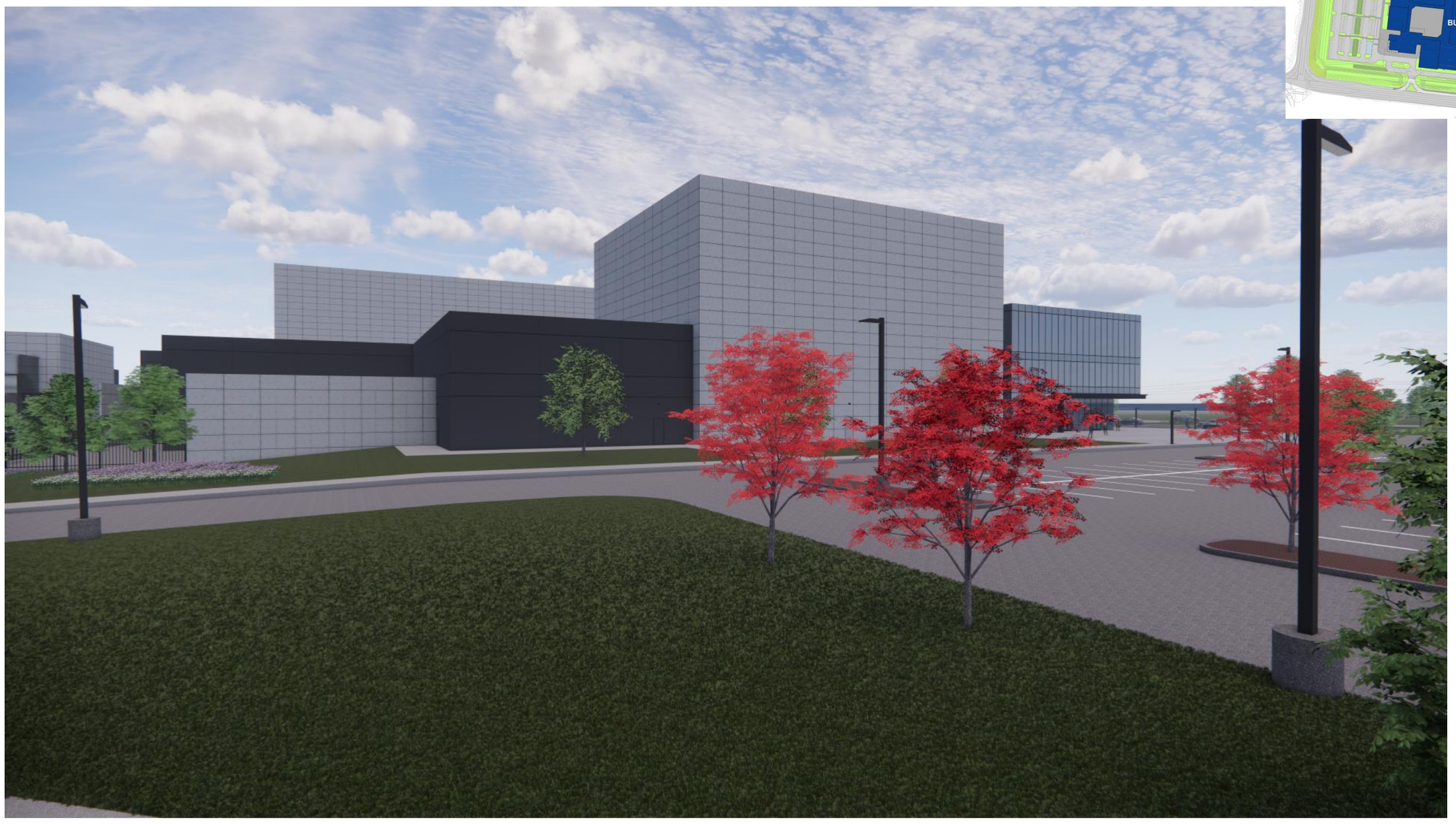

MAIN BUILDING

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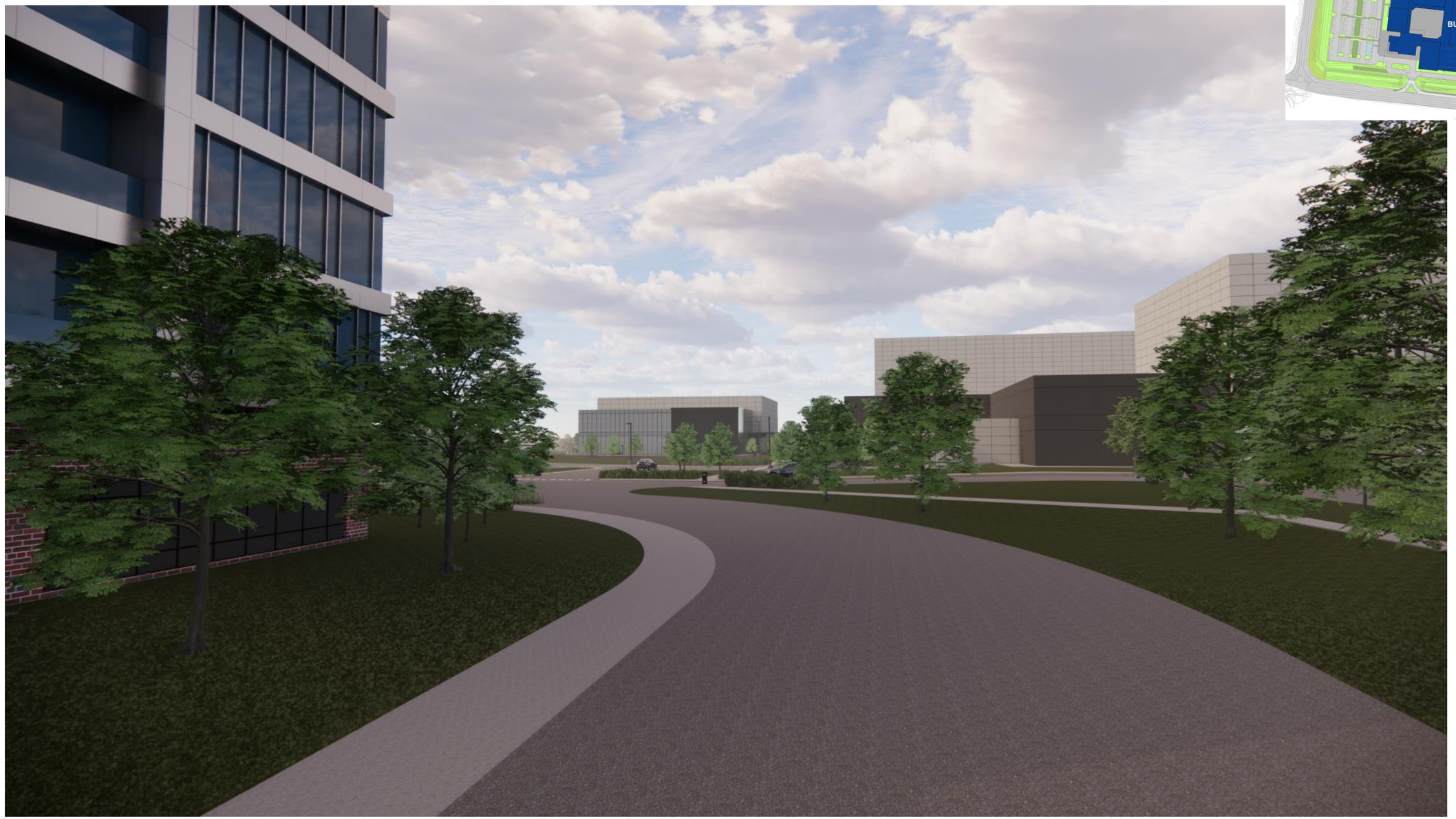

ENTRANCE FROM SPIRIT OF ST. LOUIS BLVD – Looking at Studio 2 in distance

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MAIN BUILDING on right, STUDIO 2 to left

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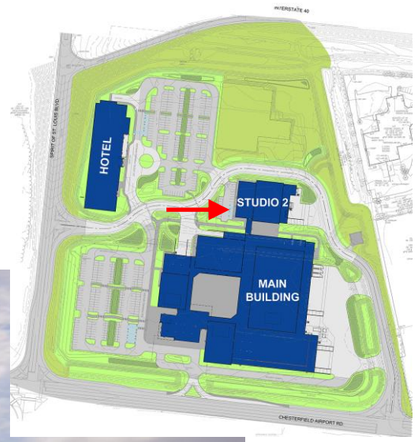

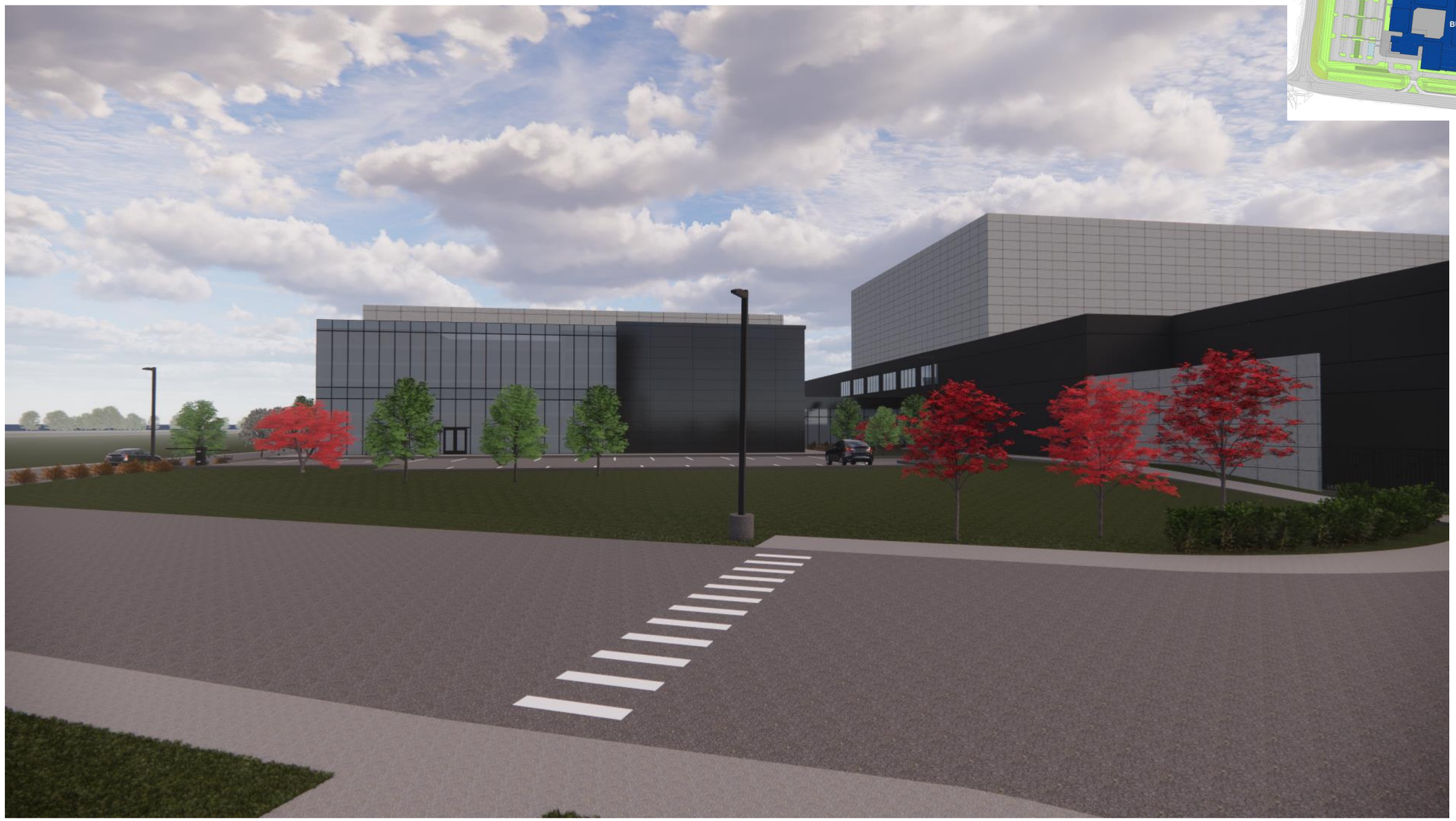

STUDIO 2 on left, MAIN BUILDING on right

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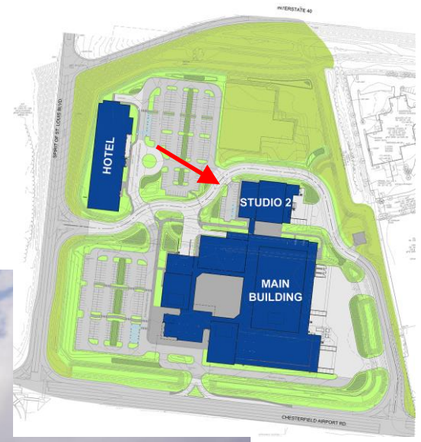

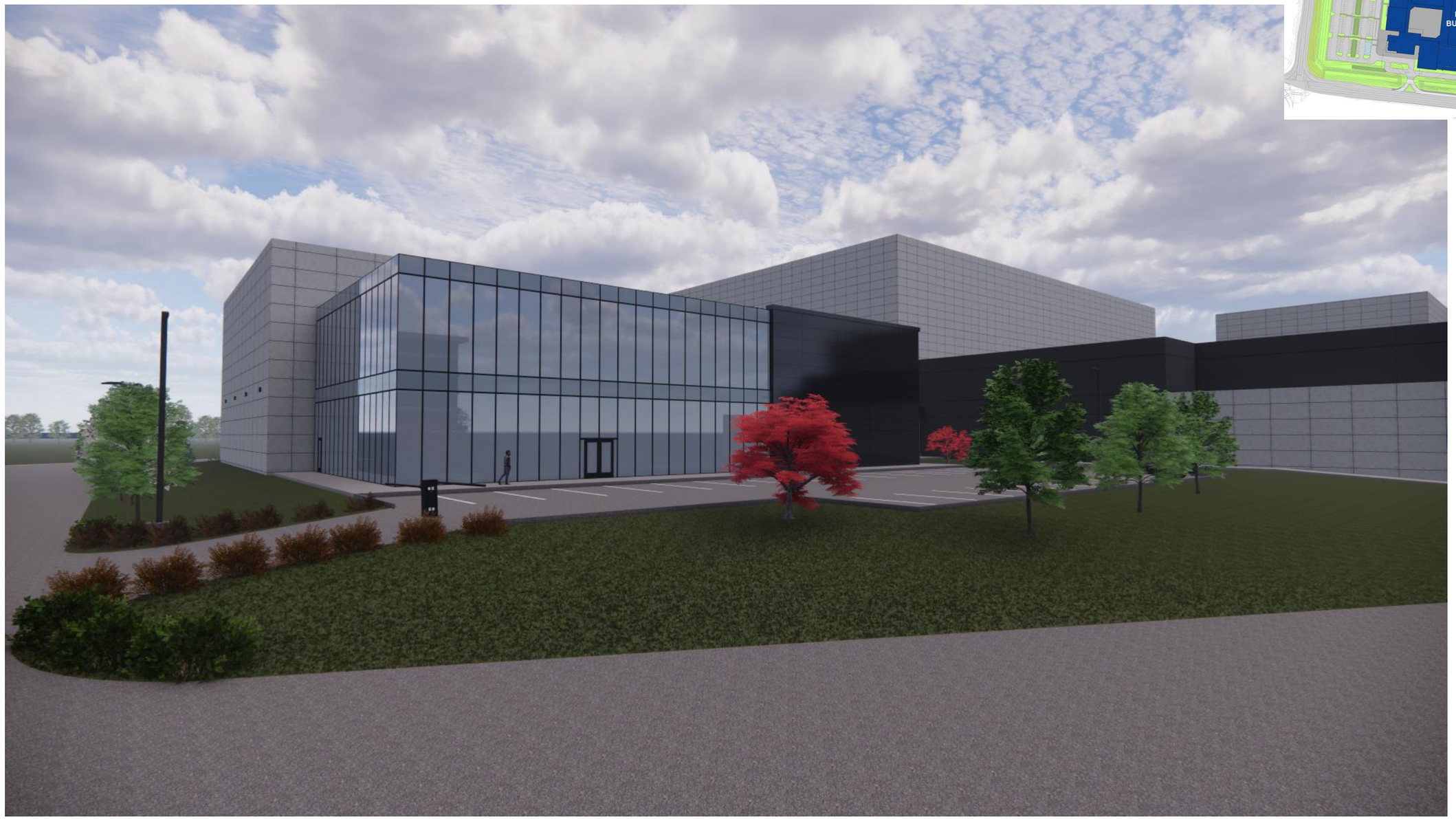

STUDIO 2

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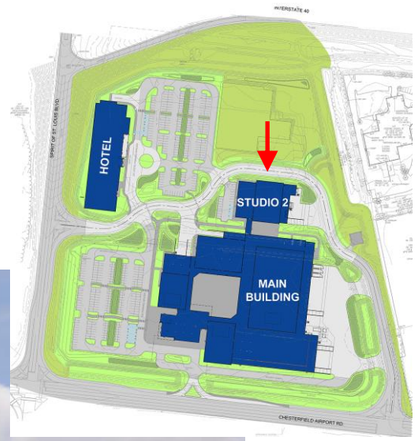

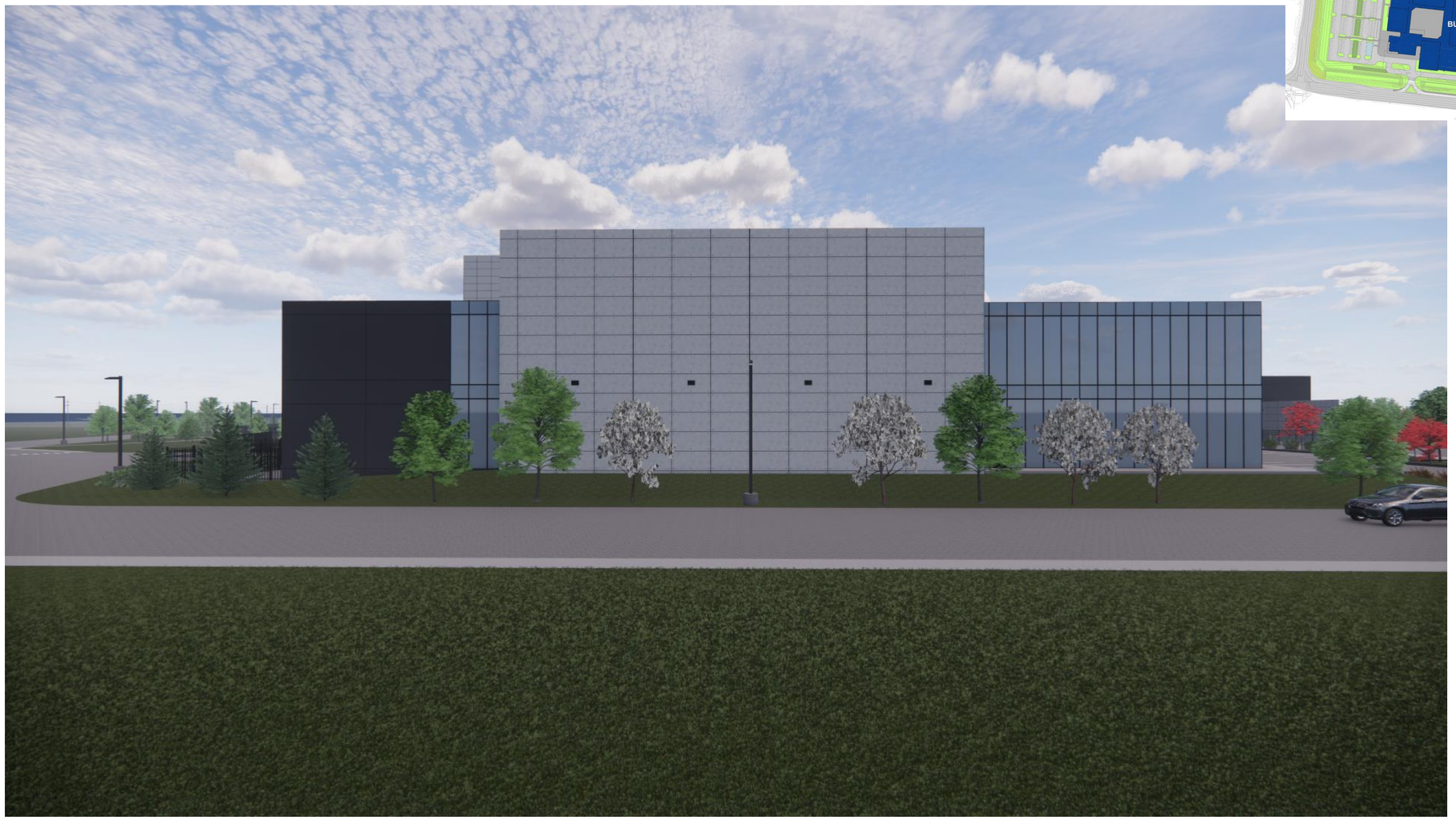

STUDIO 2

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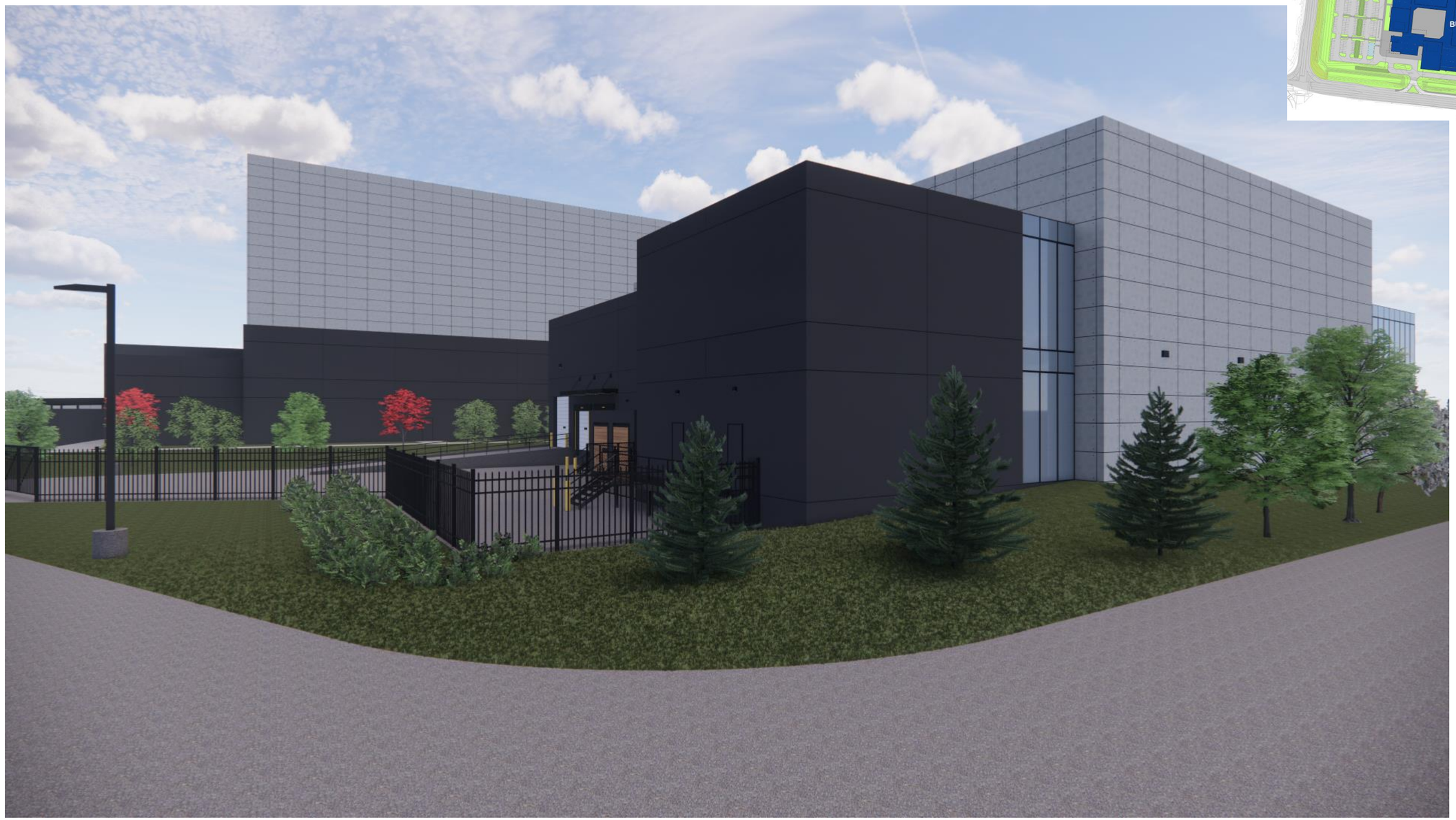

STUDIO 2

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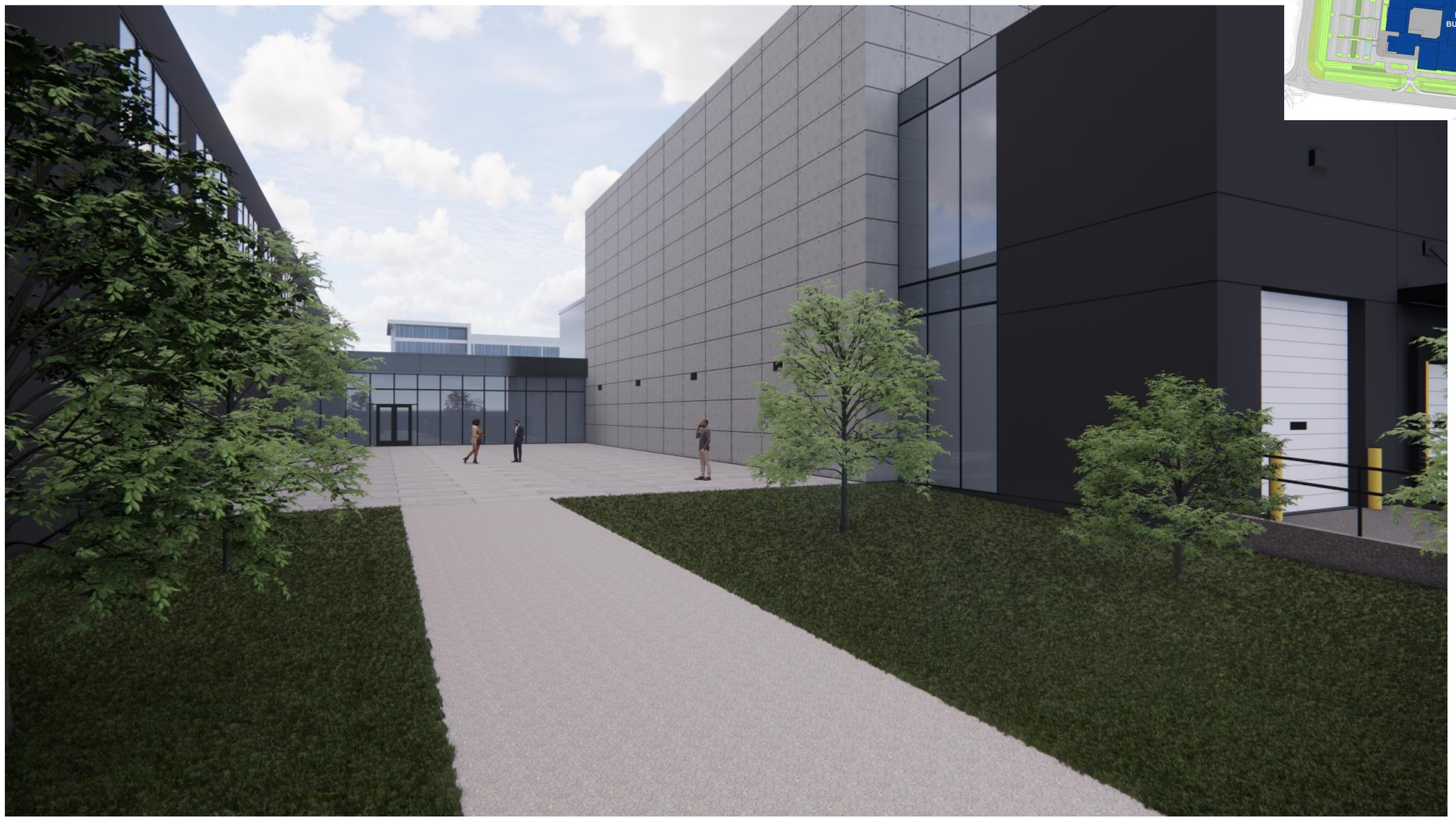

Plaza between MAIN BUILDING & STUDIO 2

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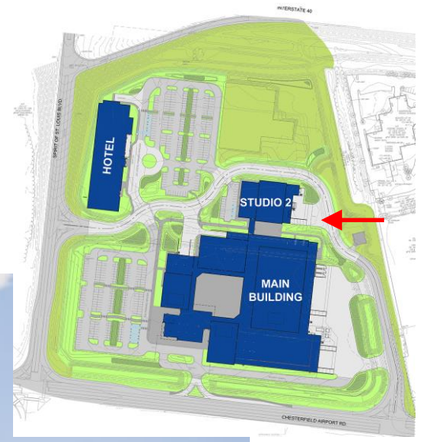

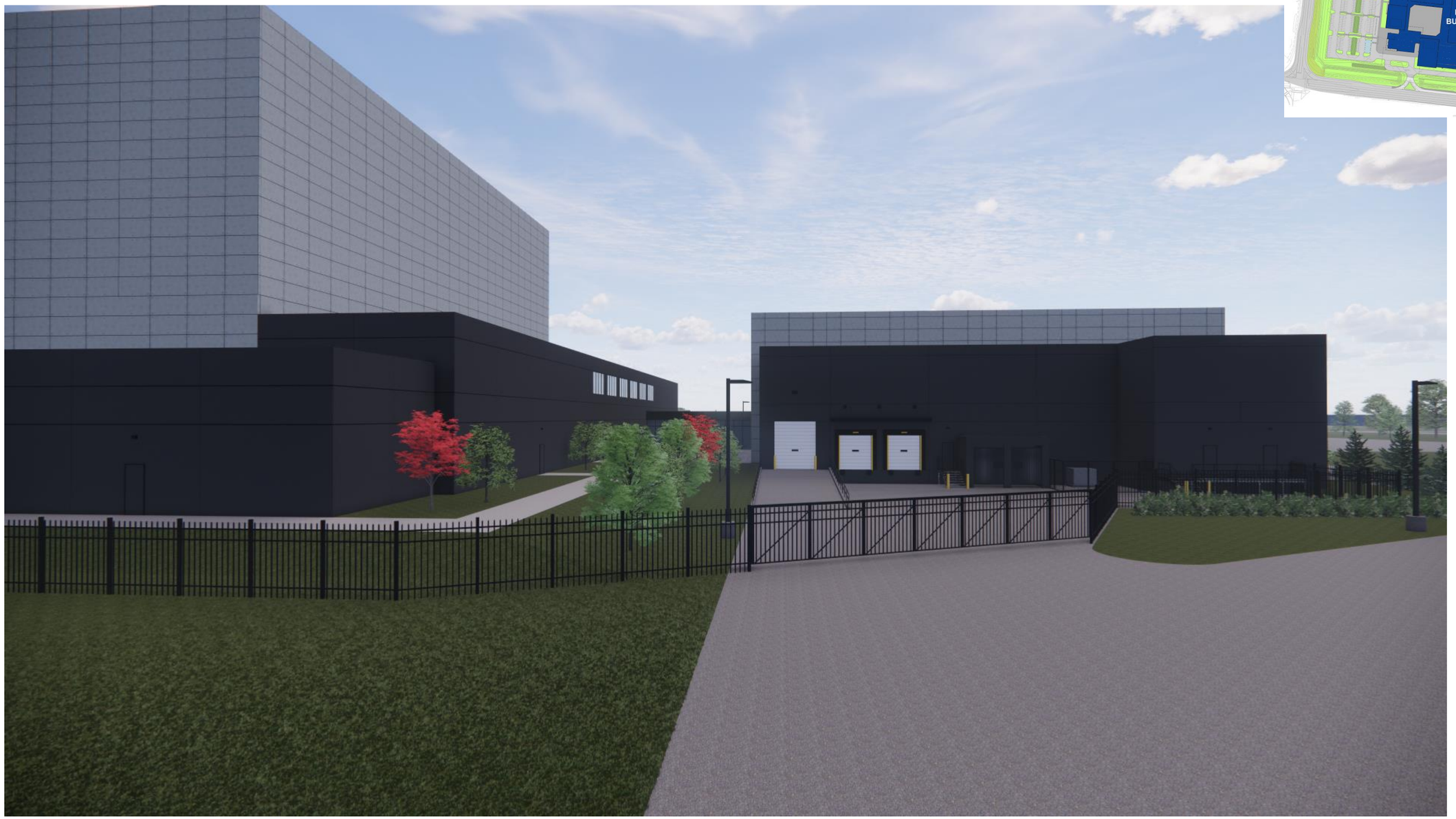

STUDIO 2 on right, MAIN BUILDING on left

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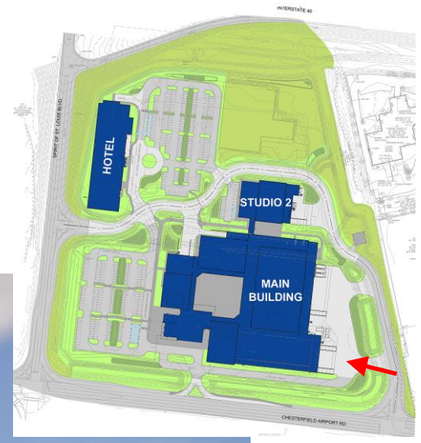

MAIN BUILDING docks

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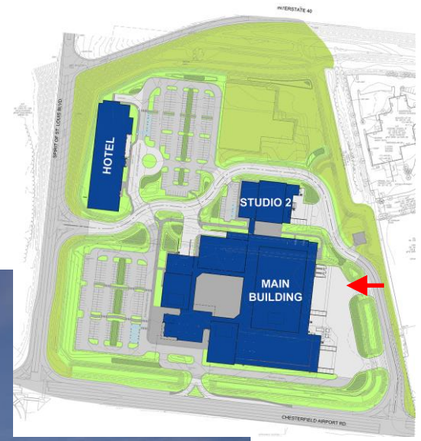

MAIN BUILDING docks

ARCO NATIONAL CONSTRUCTION

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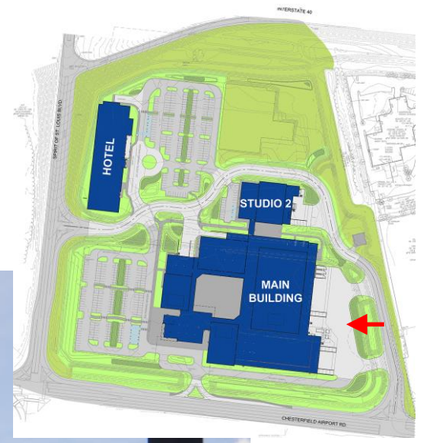

MAIN BUILDING docks

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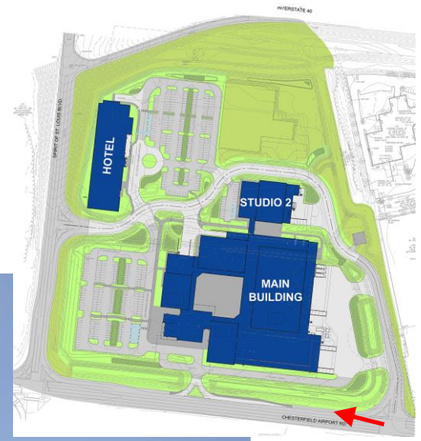

MAIN BUILDING

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MAIN BUILDING + STUDIO 2 | Architects Statement of Design

March 22, 2021

Revised April 20, 2021

Architect's Statement of Design
Gateway Studios – Main Building and Studio 2

Introduction

Gateway Studios is a campus-style complex comprised of the Spirit Hotel, the Main Building, and Studio 2. While the Spirit Hotel will be open to the public, the Main Building and Studio 2 will be private, state-of-the-art facilities that serve the Music and Film Industry.

The Main Building is the heart of the Gateway Studios Campus, while Studio 2 is an extension of the Main Building. With precise acoustical design at the forefront of this project, the Main Building and Studio 2 have been meticulously designed based on function, while not sacrificing visual appeal.

PART A | The Main Building

The primary façade of the Main Building faces Chesterfield Airport Road. The exterior design presents a bold transition from a three-story all glass and steel office to a contemporary all concrete façade. This design mimics the transition from modern office buildings to utilitarian industrial buildings located in this area of Chesterfield. The Main Building contains several distinct areas: Studio 65, Studio 75, Studio 80, a Main Office, a Studio Support Space, and B. Goode Lanes.

The Main Building: Design - Studios

Studio 65, Studio 75, and Studio 80 are self-contained studios for the purposes of privately recording, rehearsing, and/or filming. Due to the need for an exceptional acoustically designed space, the studio exterior walls are insulated tilt-up concrete wall panels with minimal openings in the exterior wall construction. The exposed concrete panels are designed with a formliner pattern reminiscent of the designs of the Japanese Architect Tadao Ando, the Architect of the Pulitzer Arts Foundation in St. Louis. This formliner highlights the inherent beauty of raw concrete, while bringing a natural texture and scale to the Studio walls.

The Main Building: Design - Main Office

The Main Office is the main entry to the facility. A sizeable entry plaza leads to a sleek glass and steel building that cantilevers on the corner to create a covered entry into the grand office lobby. Low-gloss aluminum composite panels frame the cantilevered entry, with a pop of wood-look fiber cement paneling on the underside. The office glazing is an energy efficient, insulated, Low-E glazing with a grey-blue tint. The all-glass walls of the office provide an abundance of daylight for offices on all sides of the building, with the interior side of the office building facing the private courtyard. The three-story office provides a visual balance to the taller Studio portions which flank the Main Office. Warm, wood-look fiber cement paneling clads the recessed areas where the Main Office meets the Studio walls.

The Main Building: Design - Studio Support Space, B. Goode Lanes, and other supporting areas
The receiving and staging function of the Studio Support Space lends to a simple and durable exterior design that complements, in lieu of competing with, the Studio and the Main Office exterior designs which are the feature of the project. The exterior walls of the Studio Support Spaces are maintenance-free, dark grey, integrally colored concrete walls that contrast with the light grey raw concrete walls of the Studios. The minimalist and functional design for the exterior of the Studio Support Space is softened by aluminum ornamental fencing, accent lighting, and a variety of landscaping which provide visual relief and interest on the primary façade. The varying-colored trees, as noted in the Landscape Plan, provide contrast from the dark grey integrally colored concrete tilt walls.

B. Goode Lanes is situated inconspicuously on the north side of the Main Building. The dark grey integrally colored concrete walls of B. Goode Lanes create a discrete façade for the private bowling and dining area used by the artists and their crew members.

Throughout the Main Building design, the dark grey integrally colored concrete walls denote that space as a secure, 'behind-the-scenes' areas of the building such as storage, loading docks, kitchen, catering, office, and recreational spaces for the crews.

PART B | STUDIO 2

Studio 2 is a self-contained studio for the purpose of privately recording, rehearsing, and/or filming, with the option to utilize the adjoining offices. Studio 2 is comprised of three separate yet cohesive areas: An office, a studio, and a dock area. These areas have been designed to coordinate and complement the Main Building. Studio 2 is connected to the Main Building via an all glass enclosed pedestrian walkway.

Studio 2: Design - Main Office
Two-story, energy efficient, grey-blue glass provides daylight for the office area of Studio 2. High floor-to-floor spacing gives grandeur and balance to the two-story office space beside the taller Studio walls.

A portion of the office is clad in a durable, high-quality, high-gloss fiber cement panel to serve the need for a private, enclosed portion of the office area. This material has been carefully placed so that it does not face Chesterfield Airport road nor the Interstate. Though not prevalent in the United States, the high gloss material has been selected due to its stunning appearance and prominent use in contemporary buildings around the world. This material selection reflects the unique and world-class nature of the Gateway Studios project.

Studio 2: Design - Studio
With acoustical demands driving the exterior façade design of the studio portion, the studio walls will be insulated tilt-up concrete wall panels with minimal openings in the exterior wall construction. The exposed concrete panels are designed with the same formliner pattern as the Main Building. The north elevation, which faces the Interstate, has landscaping and accent lighting to provide interest and variety to the north façade. The north façade achieves balance though a variety of dark grey integrally colored concrete walls, raw concrete walls with form liner pattern, and curtain wall glazing.

Studio 2: Design - Dock area

The exterior concrete tilt-up walls of the dock area are a durable, integrally colored dark grey concrete. The darker grey color coordinates with the Main Building and provides visual contrast from the lighter concrete walls of the Studio spaces.

PART C | SITE

Site Relationships - Pedestrian Movement
The various buildings at the Gateway Studios Campus are connected via a continuous sidewalk which provides safe pedestrian movement between areas.

Site Relationships – Plazas / Courtyards
A plaza frames the main entrance at the Main Building. Within the interior of the Main Building is a private, serene courtyard. Between the Main Building and Studio 2 is a private plaza.

Site Relationships – Scenic Views, Screening
Both the Main Office of the Main Building and the office area of Studio 2 face the desirable sunset views to the west.

The Main Office at the Main Building also faces courtyard views to the north, while the placement of Studio 65 blocks the Main Office from the undesirable views and sounds of Interstate 40.

The layout of the Main Building and Studio 2 have been designed to conceal the trash enclosures from Chesterfield Airport Road and from Interstate 40. The trash enclosure will be constructed of the same integrally colored concrete walls as the facility. The trash enclosure will have matching matte black metal gates and a matte black metal canopy.

All dock areas are screened with a 20' tall by 60' long screen walls that are the same concrete wall construction and formliner design as the Studio walls.

Parapets will be utilized throughout the facility to screen rooftop equipment.

Site Relationships – Climate
The Main Building is situated with the longest sides on the East-West axis, which is preferable for large building in humid subtropical climates. The East and West sides, which are primarily concrete tilt walls, will provide mass to slow the solar heat gain during the summer. The South and West walls of the office will be a high preforming, low-e, energy efficient glass. The covered outdoor areas of the courtyard will provide a shaded space throughout the year.

Studio 2 is designed similarly to the Main Building, with insulated concrete walls and high performing, low-e, energy efficient glass. The shaded space created between the Main Building and Studio 2 is being utilized as a plaza.

In addition to the building orientation and shading, the building envelopes for both buildings will be designed per the International Energy Code Council guidelines.

GMA ARCHITECTS

Circulation and Access
Pedestrian circulation has been designed to provide safe and easy access around the campus.

Vehicular circulation has been designed per City of Chesterfield guidelines.

Parking for the Main Building and Studio 2 is per Chesterfield guidelines, with the parking located to the side of the building.

The parking at the Main Building is separated from the Main Entry by a plaza on one side and a landscaped area on the other side.

Topography
Where possible, the natural slope and topography of the site was maintained.

Retaining Walls
A retaining wall with a decorative black metal guardrail will be provided per the submitted Site Plan. The grey concrete block retaining wall compliments the grey exposed concrete tilt walls of the Studios.

Landscaping
Landscaping has been incorporated throughout the site design to provide natural beauty, provide shade, and preserve the natural soil, air, and water quality. Landscaping surrounds the site and the buildings on the Gateway Studios Campus. Trees of varying colors are placed in front of the larger expanses of concrete walls. Landscaped areas help create separation between the buildings and the drive areas. The landscaping has been designed per City of Chesterfield standards with a combination of deciduous trees, evergreen trees, and ornamentals trees and shrubs.

Signage
All signage will be submitted through a separate submittal.

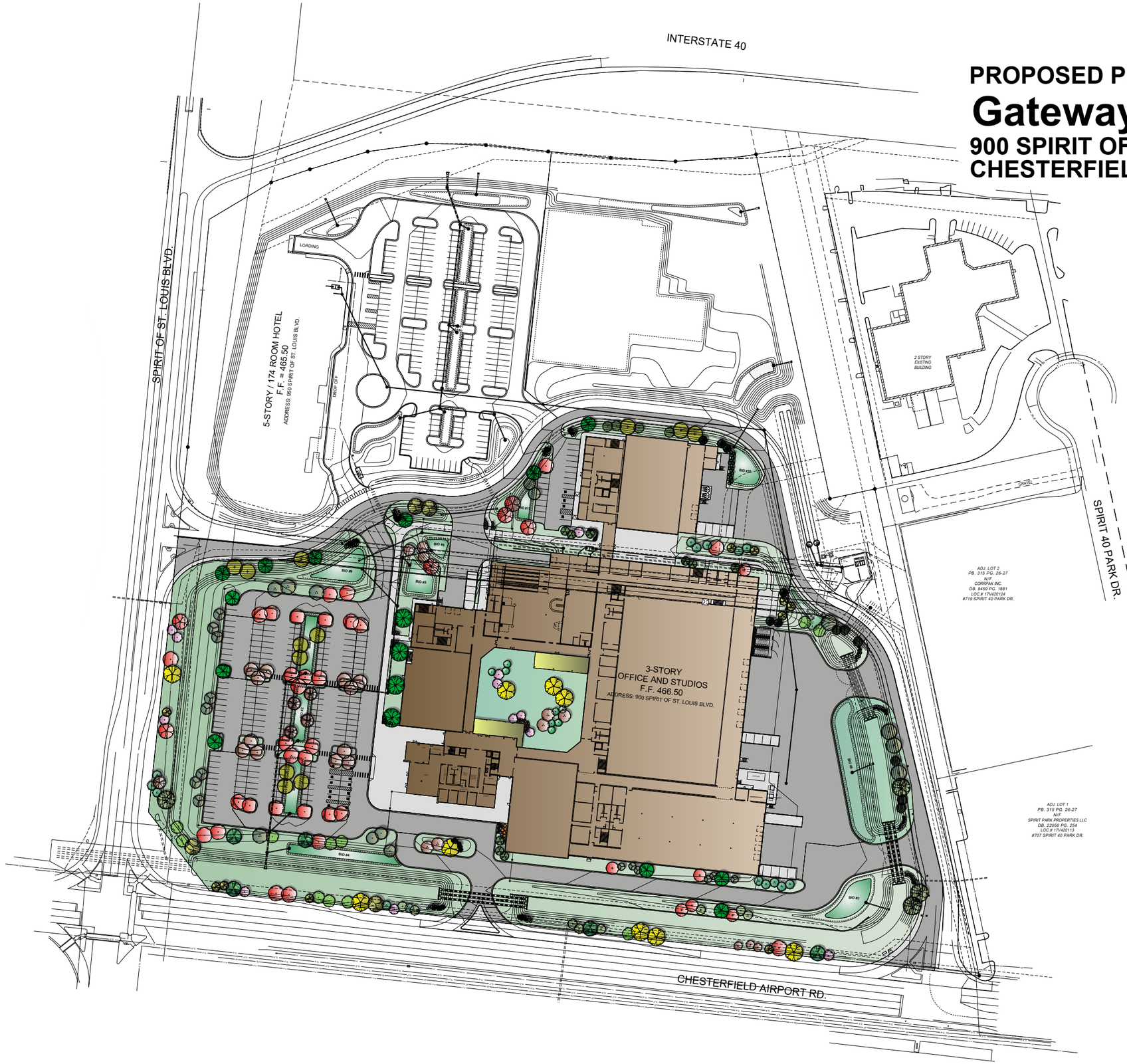
Lighting
Lighting will be submitted though a separate submittal.

MAIN BUILDING + STUDIO 2 | Landscaping Plan

PROPOSED PLANTING PLAN FOR THE

Gateway Studio

900 SPIRIT OF ST. LOUIS BLVD.
CHESTERFIELD, MISSOURI



ARCO CONSTRUCTION

STOCK & ASSOCIATES
Consulting Engineers, Inc.
257 Chesterfield Business Parkway
Chesterfield, MO 63005
(636) 530-9100 FAX (636) 530-9130

landscape TECHNOLOGIES
67 Jacobs Creek Drive (636) 928-1250
St. Charles, Missouri 63304 Fax: (636) 928-4563
MO Landscape Architectural Corporation #2008008782

0 30 60 90 feet
SCALE: 1" = 60'

NORTH

MAIN BUILDING + STUDIO 2 | Additional Info

GMA JOB NUMBER: SJ2324

REVISED 04.22.2021 DATE: 03.22.2021

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GMA ARCHITECTS

MAIN BUILDING + STUDIO 2 | Fencing

GMA JOB NUMBER: SJ2324

REVISED 04.22.2021 DATE: 03.22.2021

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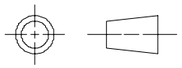
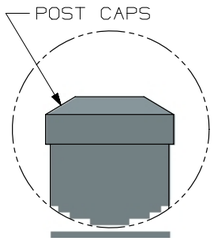
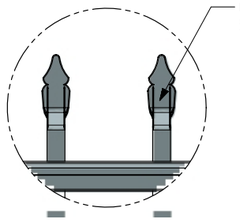
GMA ARCHITECTS

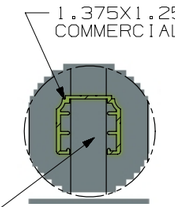




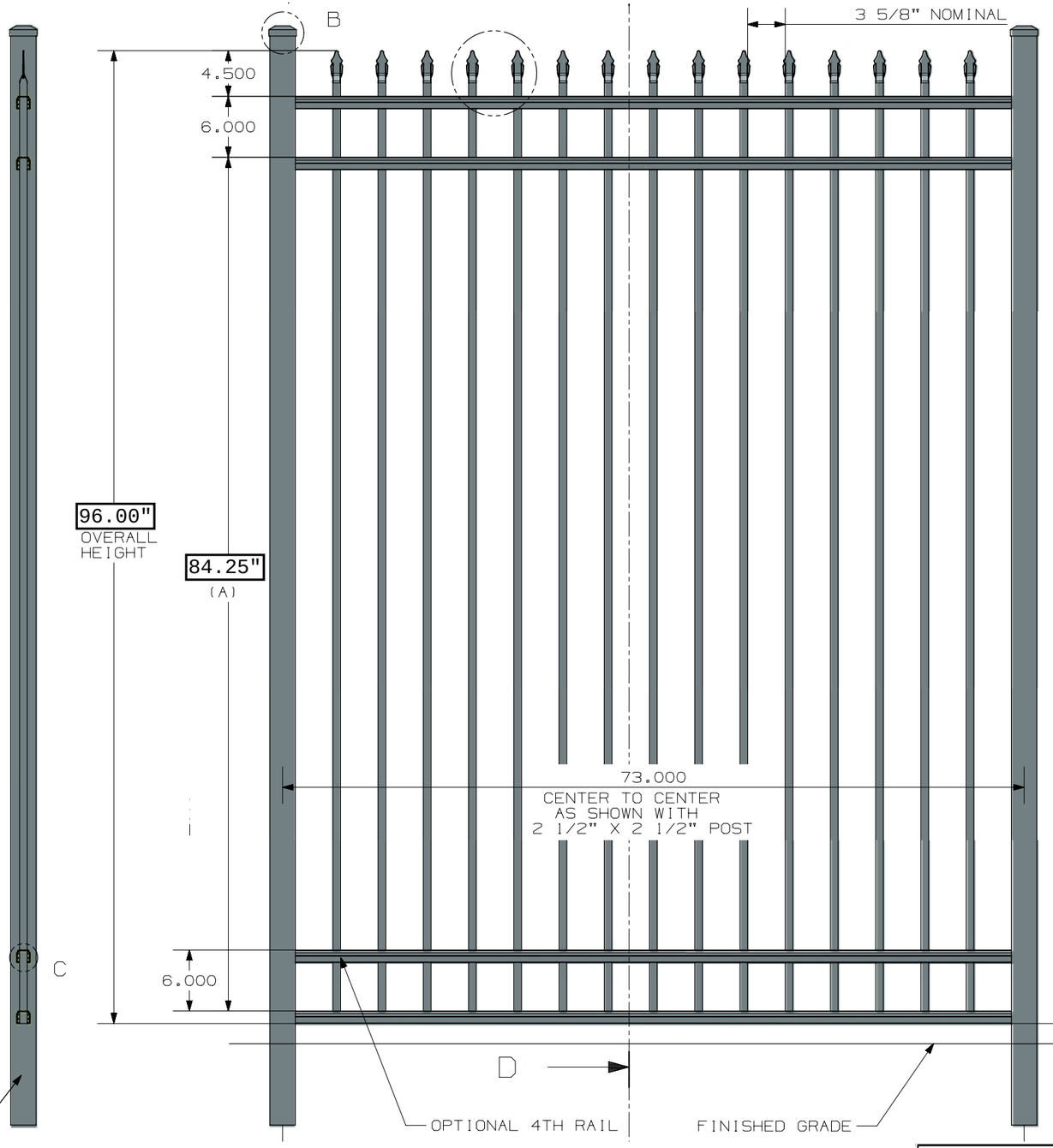
DETAIL B
SCALE 1:2



DETAIL A
SCALE 1:4



DETAIL C
SCALE 1:2



POST OPTIONS
2" X 2" X .080" WALL
2" X 2" X .125" WALL
2 1/2" X 2 1/2" X .100" WALL
3" X 3" X .125" WALL

COLOR: TEXTURED BLACK

ULTRA FENCING•RAILING

ULTRA ALUMINUM MANUFACTURING, INC.
2124 GRAND COMMERCE DR. HOWELL, MI 48855
PHONE (800) 656-4420 FAX (800) 646-7429

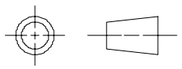
GATEWAY STUDIOS

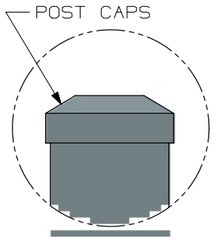
FENCING
96" TALL

TITLE
UAS-100 FLUSH BOTTOM
WITH SPEAR
COMMERCIAL

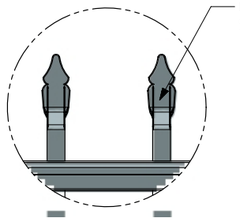
SIZE	DRG NO.	REV
	UAs-100 FLUSH BOTTOM COMMERCIAL SPEAR top	

SCALE 1:1 | SHEET 1 OF 1

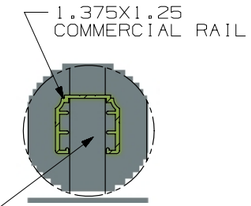




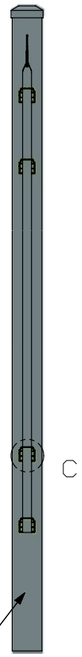
DETAIL B
SCALE 1:2



DETAIL A
SCALE 1:4

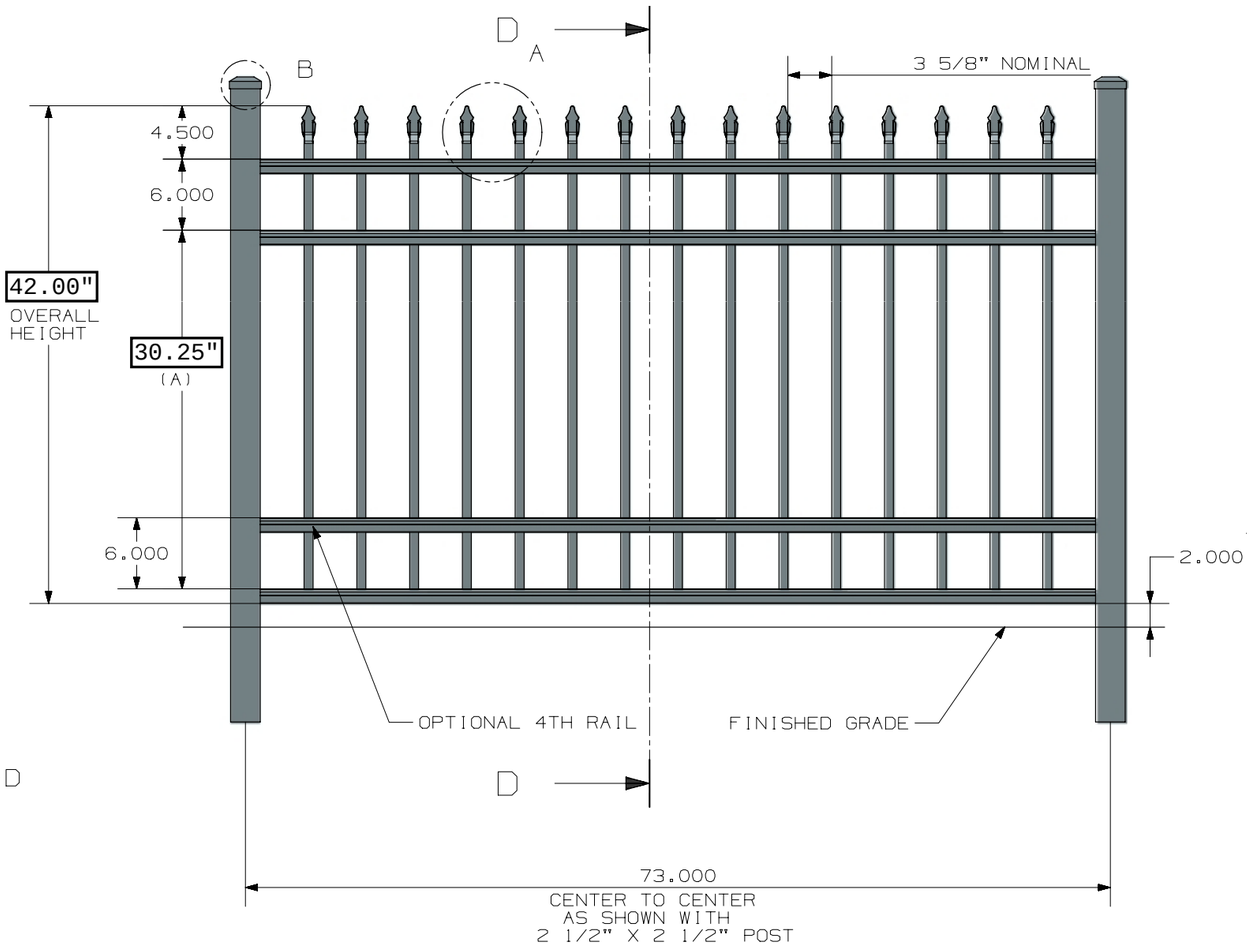


DETAIL C
SCALE 1:2



SECTION D-D

POST OPTIONS
2" X 2" X .080" WALL
2" X 2" X .125" WALL
2 1/2" X 2 1/2" X .100" WALL
3" X 3" X .125" WALL



COLOR: TEXTURED BLACK

ULTRA FENCING•RAILING

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PHONE (800) 656-4420 FAX (800) 646-7429

GATEWAY STUDIOS

GUARDRAIL
42" TALL

TITLE
UAS-100 FLUSH BOTTOM
WITH SPEAR
COMMERCIAL

SIZE	DRG NO.	REV
	UAs-100 FLUSH BOTTOM COMMERCIAL SPEAR top	

SCALE 1:1 | SHEET 1 OF 1

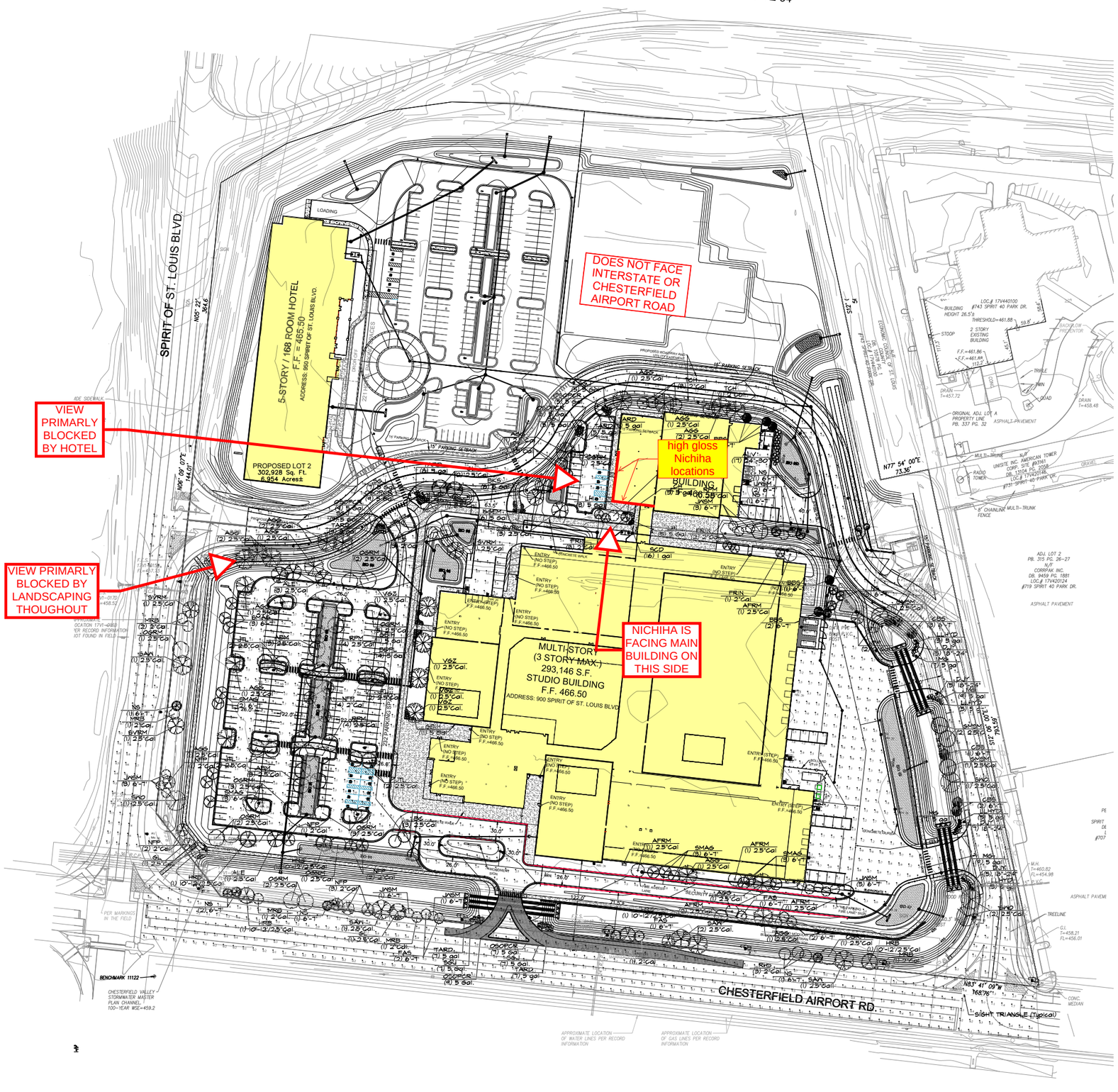
MAIN BUILDING + STUDIO 2 | Site Plan for Nichiha Locations

GMA JOB NUMBER: SJ2324

REVISED 04.22.2021 DATE: 03.22.2021

ARCO NATIONAL CONSTRUCTION + ARCO CONSTRUCTION THE DESIGN|BUILD PEOPLE

GMA ARCHITECTS



SITE PLAN

SHOWING LOCATIONS OF HIGH GLOSS PANELS

Thank You!

ARCO NATIONAL CONSTRUCTION + ARCO CONSTRUCTION THE DESIGN|BUILD PEOPLE

GMA Architects, Inc.
(314) 822-5191
Gma-architects.com

GMA ARCHITECTS

LIGHTING CUT SHEETS

FOR

MAIN BUILDING + STUDIO 2

MAIN BUILDING + STUDIO 2 | ARB Submission

GMA JOB NUMBER: SJ2324

DATE: 03.22.2021

REVISED
04.20.2021

ARCO NATIONAL CONSTRUCTION + ARCO CONSTRUCTION THE DESIGN|BUILD PEOPLE

GMA ARCHITECTS

CONCERTO UDL W LED

Architectural Outdoor

PROJECT:	GATEWAY STUDIOS
TYPE:	
PO#:	QTY:
COMMENTS:	

A

FEATURES

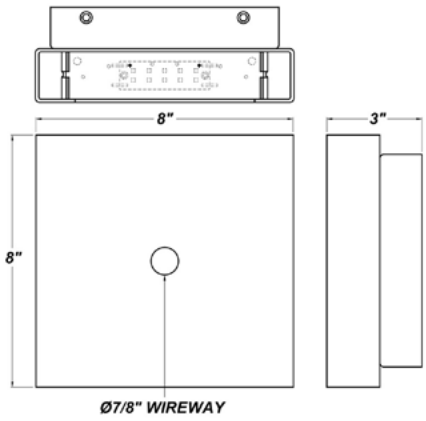
- ADA Compliant
- Aluminum Fixture w/ Textured White Powder Coat Finish
- Aluminum Mounting Plate Mounts to Wall Surface (Centered Over And Attached to J-Box)
- CSA Listed Wet Location For Wall Mount
- Dimmable @ 120/277V
- Direct Up / Down Lighting
- LED Light Fixture
- LEDs Are Shielded And Not Exposed
- Standard IP66 Rated Driver
- Surge Protector
- Wet Location LED Modules
- 0-10V Dimmable

MAIN BUILDING AND STUDIO 2

TYPICAL LIGHTING ABOVE MAN DOOR
+
TYPICAL ACCENT LIGHTING AROUND BUILDING

LINE DRAWING

LINE DRAWING NOT TO SCALE



FINISHES

Antique Copper	Antique Silver	Bronze Mist	Matte Silver	Sand	Swedish Steel
Textured Black	Textured Bronze	Textured White			

For RAL Colors & Custom Match - **Contact Teron Lighting Inc.**

TERON LIGHTING

TERONLIGHTING.COM
33 DONALD DR, FAIRFIELD, OH 45014
P: 513.858.6004 **F:** 513.858.6038
E: SALES@TERONLIGHT.COM

BUY AMERICAN SINCE 1979

SEND CUT-SHEET

CONCERTO UDL W LED

Architectural Outdoor

PROJECT:	
TYPE:	
PO#:	QTY:
COMMENTS:	

Fixture Core

PRODUCT CODE	SOURCE/WATTAGE	VOLTAGE	DIMMING DRIVER
CTO W - Concerto Wet Location	**L21.6-ZE600** - 2x10.8W @ 600mA 0-10V Dimming Driver	**120V** **277V** (50 / 60Hz)	**(0-10V Dimmable)**
ORDER INFO			
CTO W	L21.6-ZE600	120V	See Source/Wattage
Example ^			

Aesthetics & Options

TRIM	FINISH	COLOR TEMP	OPTIONS
UDL-Up Down Light	**AC** - Antique Copper **AS** - Antique Silver **BT** - Bronze Mist **SM** - Matte Silver **SN** - Sand **SW** - Swedish Steel **TB** - Textured Black **BZ** - Textured Bronze **TW** - Textured White (Standard)	**35K** - 3500K Color Temp **40K** - 4000K Color Temp **50K** - 5000K Color Temp	**Not Applicable**
ORDER INFO			
UDL	AC	35K	Not Applicable
Example ^			

PROD	SOURCE	35K SPECS
CTO W UDL	L21.6	• 35K - 3500K Color Temp • 1260 Source Lumens • 116.6 Source Lumens Per Watt on The Bottom • 116.6 Source Lumens Per Watt on The Top

REPLACEMENT PART	PART NO	NOTES
		Darker Finishes May Reduce The LED Output. Textured White And Matte Silver Are Recommended for Maximum Light Output.

Don't see the configuration you are looking for?
Call us today at (513) 858-6004

TERON LIGHTING

TERONLIGHTING.COM
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SEND CUT-SHEET

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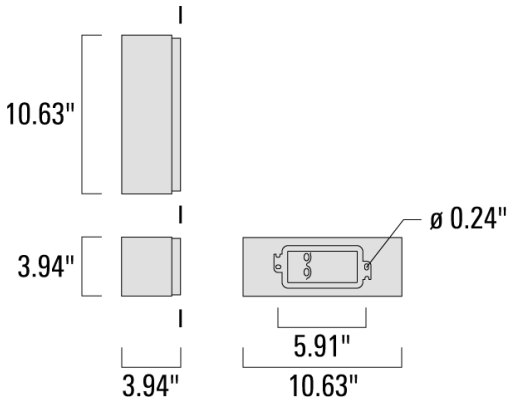
RLS420 LED

Surface Mounted Wall Luminaires

MAIN BUILDING AND STUDIO 2

ACCENT LIGHTING AT PLAZA BETWEEN STUDIO 2 AND MAIN

B



Description

IP66. IK08. Marine-grade, die-cast aluminium alloy. 5CE superior corrosion protection including PCS hardware. Safety glass lens. Silicone CCG® Controlled Compression Gasket. Luminaire is factory-sealed and does not need to be opened during installation. Optional 2200 K version up to max. 1050mA available. To be specified at time of ordering. Integral EC electronic converter. Advanced thermal management protects LEDs while optimising lumens output. CAD-optimised optics for superior illumination and glare control. OLC® One LED Concept. Luminaire can be mounted for up or down lighting. ADA (American Disabilities Act) Compliant.

Specifications

Material Specification

Body:	Marine-grade, die-cast aluminium alloy
Lens:	Safety glass lens
Colours:	RAL9004 Black RAL9007 Grey Metallic RAL9016 White RAL8019 Dark Bronze
Quick Ship	Quickship features a one week ship time for Steplights and two week ship time for the rest of our Core products. All applicable information must be included for orders to be processed and colors must be in one of our 4 standard finishes. A maximum order quantity of 30 pieces applies.
Gasket:	Silicone CCG® Controlled Compression Gasket
Fasteners:	PCS Polymer Coated Stainless Steel Hardware
Ingress protection:	IP66
Impact protection:	IK08
Corrosion protection:	5CE

Electrical Specification

Power supply:	Integral [ECG] electronic driver 120V-277V. 0-10V dimmable, to be specified with order.
Driver / Ballast:	Integral EC electronic converter

Lifetime

Ta=25°/40° L90B10 > 90000h

RLS420 LED

Surface Mounted Wall Luminaires

Choices

Light Distributions	Nominal Lumen	Nominal Watt	Colour Temperatures	Colours
 rectangular asymmetric Type II [R45]	1398	12	2700 K	RAL9004 Black
 symmetric, medium beam [M]	1476	18	3000 K	RAL9007 Grey Metallic
 symmetric, narrow beam [N]	2220	26	4000 K	RAL9016 White
	2340			RAL8019 Dark Bronze
	2700			
	2839			
	2993			
	3453			

WE-EF LIGHTING USA LLC
410-D Keystone Drive | Warrendale PA 15086 | U.S.A. | Tel +1 724 742 0030 | Fax +1 724 742 0035 | info.usa@we-ef.com | www.we-ef.com | 08-03-2021 17:41

RLS420 LED

Surface Mounted Wall Luminaires

Configurations

Light Distributions	Part ID	Light Source	Delivered Lumens	Rated Input Power	CRI	Weight	Link
 rectangular asymmetric Type II [R45]	620-6500	LED-6/12W / 700 mA - 2700 K	880.9	15	80	5.73	
	620-6501	LED-6/12W / 700 mA - 3000 K	930	15	80	5.73	
	620-6502	LED-6/12W / 700 mA - 4000 K	930	15	80	5.73	
	620-6503	LED-6/18W / 1050 mA - 2700 K	1325.3	21	80	5.73	
	620-6504	LED-6/18W / 1050 mA - 3000 K	1397	21	80	5.73	
	620-6505	LED-6/18W / 1050 mA - 4000 K	1611.9	21	80	5.73	
	620-6506	LED-6/26W / 1400 mA - 2700 K	1694.9	30	80	5.73	
	620-6507	LED-6/26W / 1400 mA - 3000 K	1786.8	30	80	5.73	
	620-6508	LED-6/26W / 1400 mA - 4000 K	2061.4	30	80	5.73	
 symmetric, medium beam [M]	620-6509	LED-6/12W / 700 mA - 2700 K	1122.5	15	80	5.73	
	620-6510	LED-6/12W / 700 mA - 3000 K	1185.1	15	80	5.73	
	620-6511	LED-6/12W / 700 mA - 4000 K	1185.1	15	80	5.73	
	620-6512	LED-6/18W / 1050 mA - 2700 K	1755.1	21	80	5.73	
	620-6513	LED-6/18W / 1050 mA - 3000 K	1850	21	80	5.73	
	620-6514	LED-6/18W / 1050 mA - 4000 K	2134.6	21	80	5.73	
	620-6515	LED-6/26W / 1400 mA - 2700 K	2244.5	30	80	5.73	
	620-6516	LED-6/26W / 1400 mA - 3000 K	2366.2	30	80	5.73	
	620-6517	LED-6/26W / 1400 mA - 4000 K	2729.9	30	80	5.73	
 symmetric, narrow beam [N]	620-6518	LED-6/12W / 700 mA - 2700 K	1055.6	15	80	5.73	
	620-6519	LED-6/12W / 700 mA - 3000 K	1114.5	15	80	5.73	
	620-6520	LED-6/12W / 700 mA - 4000 K	1114.5	15	80	5.73	
	620-6521	LED-6/18W / 1050 mA - 2700 K	1779.8	21	80	5.73	
	620-6522	LED-6/18W / 1050 mA - 3000 K	1876.1	21	80	5.73	
	620-6523	LED-6/18W / 1050 mA - 4000 K	2164.7	21	80	5.73	
	620-6524	LED-6/26W / 1400 mA - 2700 K	2276.1	30	80	5.73	
	620-6525	LED-6/26W / 1400 mA - 3000 K	2399.6	30	80	5.73	
	620-6526	LED-6/26W / 1400 mA - 4000 K	2768.4	30	80	5.73	

Related Families / RLS400

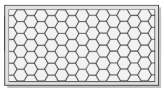
Family		Dimensions	Wattage	Nominal Lumen	Links	
					Links	Download Data Sheet
RLS410 LED		7.09 x 3.94	6 -13 W	699 -1727		
RLS420 LED		10.63 x 3.94	12 -26 W	1398 -3453		

WE-EF LIGHTING USA LLC
410-D Keystone Drive | Warrendale PA 15086 | U.S.A. | Tel +1 724 742 0030 | Fax +1 724 742 0035 | info.usa@we-ef.com | www.we-ef.com | 08-03-2021 17:41

Optical Accessories

Honeycomb louvre

620-8575 Honeycomb louvre IW



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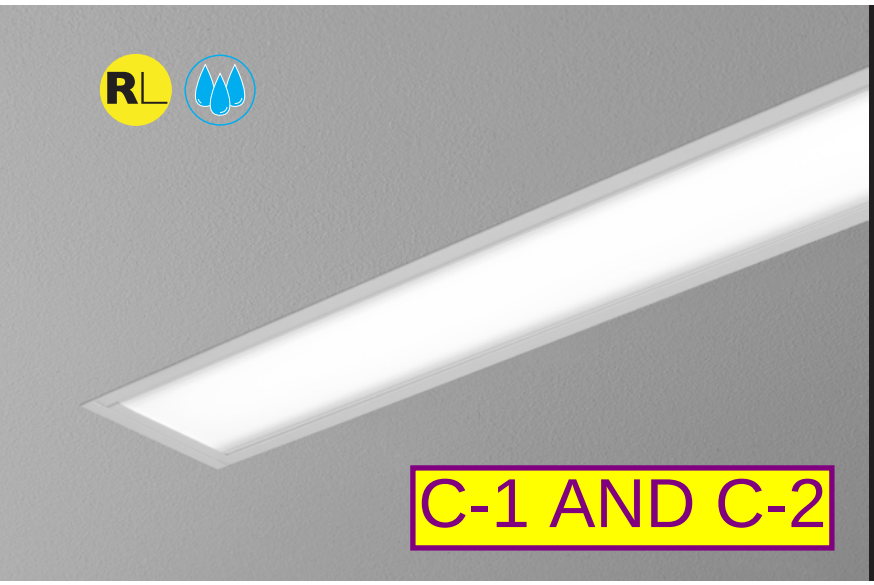
Seem® 2

LED - WET LOCATION

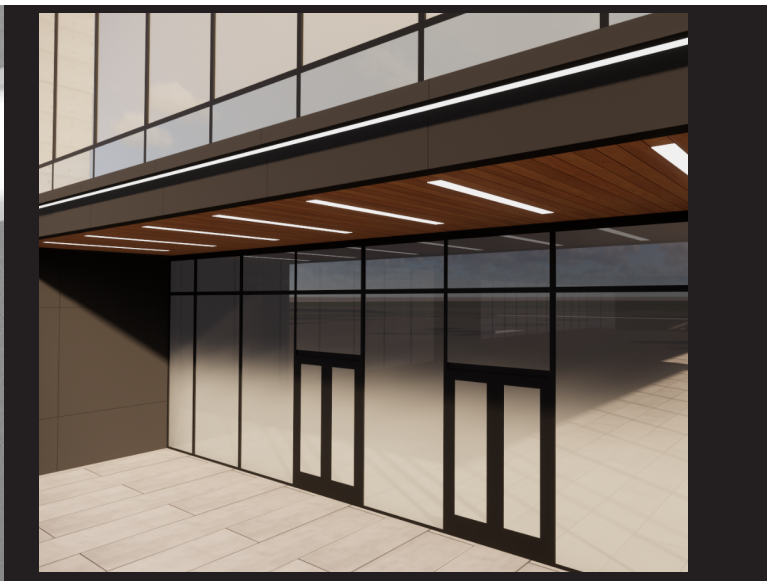
MAIN BUILDING

C-1 LINEAR LIGHTING IN MAIN BUILDING CANOPY
+
C-2 COVE LIGHT AROUND MAIN BUILDING CANOPY

FOCAL POINT®

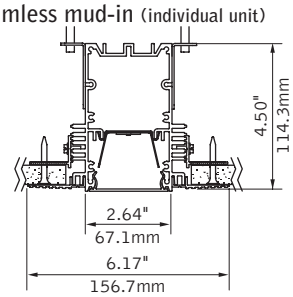


C-1 AND C-2



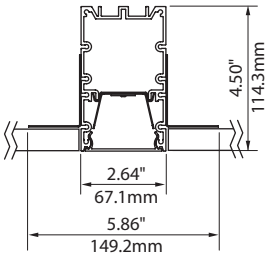
DIMENSIONAL DATA

trimless mud-in (individual unit)



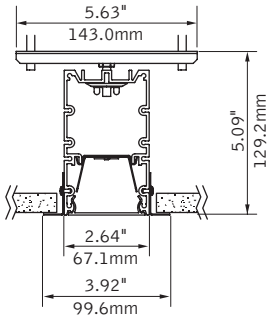
note: 0.375"min - 2.125"max ceiling thickness

hard surface (individual unit)

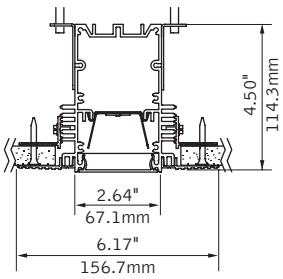


note: 0.375"min - 2.125"max ceiling thickness

trim flange (individual unit)

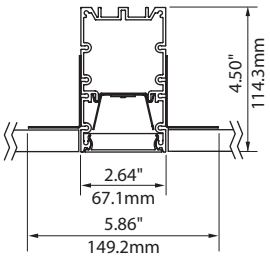


trimless mud-in (continuous run)



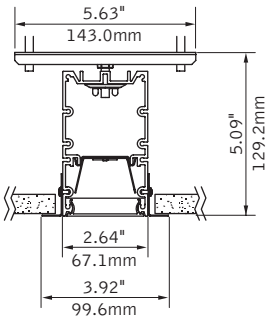
note: 0.375"min - 2.125"max ceiling thickness

hard surface (continuous run)



note: 0.375"min - 2.125"max ceiling thickness

trim flange (continuous run)



FEATURES

Narrow extruded aluminum 2.5" aperture recessed slot LED suitable for wet location.

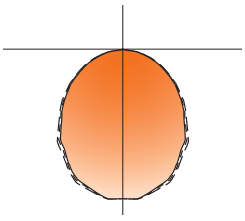
Integrates with ceiling for a clean, unobtrusive aesthetic.

Individual units and continuous runs in 1' increments.

Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.

LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

PERFORMANCE



4' Flush Lens
Nominal output:
250 Lumens per foot

Delivered Lumens: 1000lm

Total System Watts: 13W

PRODUCT OVERVIEW

Lumen Output:	500-2500lm
Wattage:	5-33W
LPW:	76-96
SDCM:	3

Photometric performance is measured in accordance with IESNA LM-79.
Visit focalpointlights.com for complete photometric data.

fixture: project:

SPECIFICATIONS

LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 3000K, 3500K, 4000K with CRI>80, 3SDCM. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps. Housing for new construction applications. 2' unit weight: 5.1 lbs., 3' unit weight: 7.6 lbs., 4' unit weight: 10.1 lbs., 5' unit weight: 12.6 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .07" thick with satin finish, up to 8' continuous. .020" thick acrylic lens water shield included for continuous runs.

Electrical

Luminaires are pre–wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming.Power factor > .9.

Emergency Battery

Output - 10 watts for 90 minutes. Maximum mounting height: 17.9ft.

Labels

UL and cUL Listed for wet location recessed ceiling applications in indoor and outdoor environments. Lutron Drivers not recommended for outdoor environments below 0˚C.

Finish

Polyester powder coat applied over a multi-stage pre–treatment.

Lumen Maintenance

Reported: L70 at >61,000 hours
L90 at >61,000 hours

Calculated: L70 at 270,000 hours
L90 at 73,000 hours

Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED system rated for operation in ambient environments up to 35°C. 5-year limited warranty.

4' PERFORMANCE CHART

Shielding	Lumens per Foot	Delivered Lumens	Tested System Watts	LPW
Flush Lens	125LF	500	5	96
	250LF	1000	13	80
	375LF	1500	19	79
	625LF	2500	33	76

Based on 3500k, 4' lengths. Lumen multiplier: Continuous runs = 0.93 Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

ORDERING

Luminaire Series		**FSM2LWL**
Seem 2 LED Wet Location	FSM2LWL	
Shielding		**FL**
Flush Satin Lens (Ceiling applications only)	FL	
Lumen Output		_____
125 Lumens per foot (4' minimum.)	125LF	
250 Lumens per foot	250LF	
375 Lumens per foot	375LF	
625 Lumens per foot	625LF	
Color Temperature		_____
3000K	30K	
3500K	35K	
4000K	40K	
Circuit		**1C**
Single Circuit	1C	
Voltage		**UNV**
UNV 120/277 Volt	UNV	
Control System & Dimming Level		_____
0-10V - 1% Dimming	L11	
0-10V - 10% Dimming	LD1	
Lutron H-Series - 1% Dimming	LH1	
Lutron 5-Series - 5% EcoSystem Digital	LU5	
Ceiling Configuration		_____
Trim Flange Drywall	TF	
Mud-in Trimless, pre-set for 1/2" Drywall	XF1	
Mud-in Trimless, pre-set for 5/8" Drywall	XF2	
Mud-in Trimless, set thickness in field (Mounting equipment assembled in field)	XFF	
Non-Drywall Hard Surface	XFN	
Factory Options		
Chicago Plenum	CP	_____
Emergency Circuit	EC	_____
Emergency Battery Pack (4' lengths or longer)	EM	_____
6' New York City Flex Whip	FNY	_____
6' Flex Whip	FW	_____
Finish		**WH**
Matte White Housing	WH	
Luminaire Length Specify luminaire/row length in 1' increments (2' minimum, lengths are nominal. Housing length is 1" shorter than specified.)	_ft	**ft**

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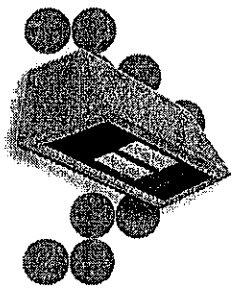
WST LED
Architectural Wall Sconce

Catalog Number	WST LED 2 10A700/40K SR4 120 PE DWHXD
Notes	Fabco - New Equipment Building
Type	D

Hit the Tab key or mouse over the page to see all interactive elements



MAIN BUILDING AND STUDIO 2

LIGHT FOR DOCK DOORS, TYP.

Introduction

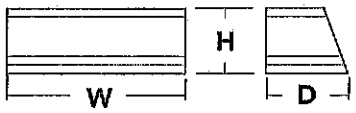
The classic Architectural Wall Sconce is now available with the latest in LED technology. The result is a long-life, maintenance-free product with typical energy savings of 75% compared to metal halide versions. The integral battery backup option provides emergency egress lighting, without the use of a back-box or remote gear, so installations maintain their aesthetic integrity.

The WST LED is ideal for replacing existing 50 – 175W metal halide wall-mounted products. The expected service life is 20+ years of nighttime use.

Specifications

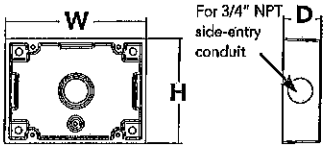
Luminaire

Height:	7-1/4" (18.4 cm)
Width:	16-1/4" (41.3 cm)
Depth:	9-1/8" (23.2 cm)
Weight:	17 lbs (7.7 kg)



Optional Back Box (BBW)

Height:	4" (10.2 cm)
Width:	5-1/2" (14.0 cm)
Depth:	1-1/2" (3.8 cm)



Ordering Information

EXAMPLE: WST LED 2 10A700/40K SR3 MVOLT DDBTXD

WST LED	2	10A700/40K	SR4	120	PE	DWHXD

Series	Light Engines	Performance Package	Distribution	Voltage	Mounting	Options	Finish (required)
WST LED	1 One engine (10 LEDs) 2 Two engines (20 LEDs)	700 mA options: 10A700/40K 4000K	SR2 Type II SR3 Type III SR4 Type IV	MVOLT[1] 120[1] 208[1] 240[1] 277[1] 347 480	**Shipped included** (blank) Surface mount **Shipped separately[2]** BBW Surface-mounted back box	**Shipped installed** PE Photoelectric cell, button type[3,4,5] SF Single fuse (120, 277, 347V)[3,4] DF Double fuse (208, 240, 480V)[3,4] DMG 0-10V dimming driver (no controls) ELCW Emergency battery backup[3,6] WLU Wet location door for up orientation **Shipped separately** VG Vandal guard[3] WG Wire guard[3]	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone **VERIFY FINISH**

Emergency Battery Operation

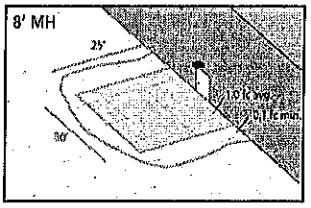
The emergency battery backup (ELCW option) is integral to the luminaire - no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

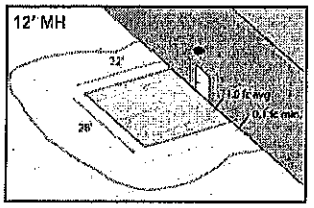
All ELCW configurations include an independent secondary driver with an integral relay to immediately detect A/C power loss. Dual light engines are wired in parallel so both engines operate in emergency mode and provide additional component redundancy. These design features meet various interpretations of NFPA 70/NEC 2008 - 700.16

The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples at right show illuminance of 1 fc average and 0.1 fc minimum of the single-engine Type IV product in emergency mode.

WST LED 1 10A700/40K SR4 MVOLT ELCW
10' x 10' Gridlines
8' and 12' Mounting Height





NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with photocell (PE option) or fusing (SF, DF options).
2. For side-entry conduit applications. May also be ordered separately as an accessory. Ex: WSBBW DDBXD U.
3. Must be ordered with fixture; cannot be field installed.
4. Not available with MVOLT option. Button photocell (PE) can be ordered with a dedicated voltage option. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
5. Not available with 480V option.
6. Integral battery pack is rated for -20° to 60°C operating temperature. ELCW warranty is 3 year period. Not available with 347V or 480V.

LITHONIA LIGHTING.
One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • Fax: 770.918.1209 • www.lithonia.com

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application.

Light Engines	Drive Current (mA)	Performance Package	System Watts (MVOLT)[1]	Dist. Type	40K (4000K, 70 CRI)				
					Nominal Lumens	B	U	G	LPW
1 (10 LEDs)	700	10A700/--K	24W	SR2	2005	1	0	1	84
				SR3	2029	1	0	1	84
				SR4	1959	1	0	1	82
2 (20 LEDs)	700	10A700/--K	47W	SR2	3944	1	0	1	84
				SR3	4028	1	0	1	86
				SR4	3851	1	0	1	82

1 See electrical load chart for 347/480V system watts.

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.10
10°C	50°F	1.06
20°C	68°F	1.02
25°C	77°F	1.00
30°C	86°F	0.98
40°C	104°F	0.92

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **WST LED 2 10A700 platform in a 25°C ambient**, based on 10,000 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.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.88	0.77

Electrical Load

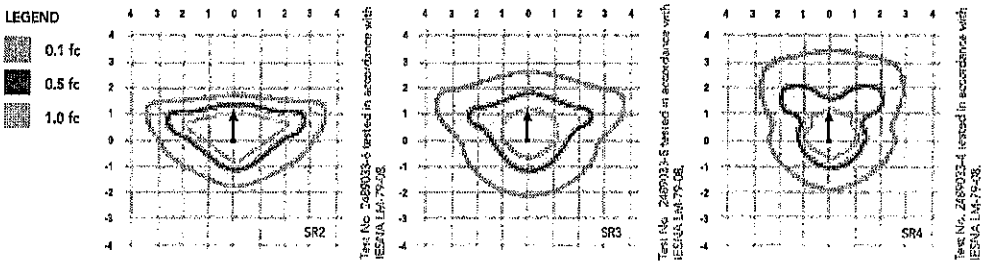
Light Engines	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347[1]	480
1	700	24W	0.24	0.14	0.12	0.1	-	-
		29W[1]	-	-	-	-	0.09	0.07
2	700	47W	0.44	0.27	0.23	0.20	-	-
		53W[1]	-	-	-	-	0.17	0.12

1 Higher wattage is due to electrical losses from step-down transformer.

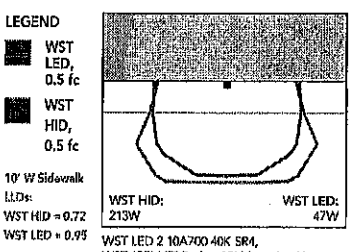
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

Isofootcandle plots for the WST LED 2 10A700/40K SR2, SR3, and SR4. Distances are in units of mounting height (12').



Distribution overlay comparison to 175W metal halide.



WST LED 2 10A700 40K SR4, WST 175M FT Probe, 12' Mounting Ht

FEATURES & SPECIFICATIONS

INTENDED USE
The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Precision-molded acrylic lenses are engineered for superior distribution, uniformity, and spacing in wall-mount applications. Light engines are 4000K (70 CRI). The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 25°C, L77). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The integral bubble level on the mounting plate provides assistance for level placement on every installation.

LISTINGS
CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated and suitable for wet locations when mounted with the lenses down. WLU option (coming soon) offers wet location listing in "up" orientation. Rated for -30°C minimum ambient.

WARRANTY
Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.

LITHONIA LIGHTING
One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • Fax: 770.918.1209 • www.lithonia.com

Rev. 05/16/12

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Project		Catalog #		Type	E
Prepared by		Notes		Date	

McGraw-Edison

GWC Galleon Wall

Wall Mount Luminaire

Typical Applications

Exterior Wall • Walkway

MAIN BUILDING AND STUDIO 2

LIGHT ABOVE EXTERIOR DRIVE IN DOORS, TYP.

Interactive Menu

Product Certifications

DLC QPL LISTED · DLC QPL LISTED PREMIUM · ISTM SYSTEMS CERTIFIED · UL LISTED · FC CLASS A · IP66 · ida DARK SKY APPROVED · 5 YEAR LIMITED WARRANTY · Light ARchitect™

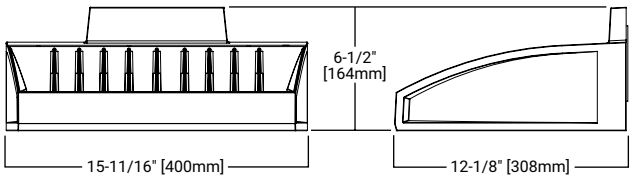
Quick Facts

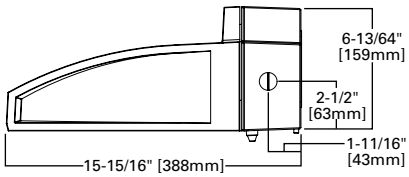
- Choice of thirteen high-efficiency, patented AccuLED Optics™
- Downward and inverted wall mounting configurations
- Eight lumen packages from 3,215 up to 17,056
- Efficacies up to 154 lumens per watt

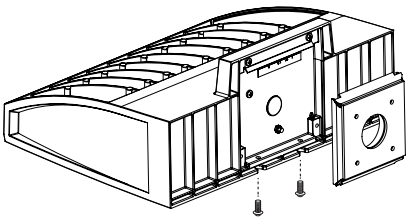
Connected Systems

- WaveLinx
- Enlighted

Dimensional Details







Ordering Information

SAMPLE NUMBER: **GWC-SA2C-740-U-T4FT-GM**

Product Family [1]	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
GWC=Galleon Wall	**SA1**=1 Square **SA2**=2 Squares [2]	**A**=615mA **B**=800mA **C**=1000mA **D**=1200mA [4]	**722**=70CRI, 2200K **727**=70CRI, 2700K **730**=70CRI, 3000K **735**=70CRI, 3500K **740**=70CRI, 4000K **750**=70CRI, 5000K **760**=70CRI, 6000K **827**=80CRI, 2700K **830**=80CRI, 3000K **AMB**=Amber, 590nm [3, 4]	**U**=120-277V **1**=120V **2**=208V **3**=240V **4**=277V **8**=480V [6,7] **9**=347V [6]	**T2**=Type II **T3**=Type III **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **5NQ**=Type V Square Narrow **5MQ**=Type V Square Medium **5WQ**=Type V Square Wide	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	**Controls and Systems Options** (Add as Suffix)	**Accessories** (Order Separately)
F=Single Fused (120, 277 or 347V. Must Specify Voltage) **FF**=Double Fused (208, 240 or 480V. Must Specify Voltage) **10K**=10kV Surge Module **20K**=20kV UL 1449 Fused Surge Protective Device **DIM**=External 0-10V Dimming Leads [9, 10] **CBP**=Battery Pack with Back Box, Cold Weather Rated [2, 4, 14, 33] **CBP-CEC**=Battery Pack with Back Box, Cold Weather Rated, CEC compliant [2, 4, 14] **L90**=Optics Rotated 90° Left **R90**=Optics Rotated 90° Right **HSS**=Factory Installed House Side Shield [23] **GRSBK**=Factory Installed Glare Shield, BK [4, 27] **GRSWH**=Factory Installed Glare Shield, WH [4, 27] **UPL**=Uplight Housing [13] **HA**=50°C High Ambient [12] **LCF**=Light Square Trim Plate Painted to Match Housing [22] **MT**=Factory Installed Mesh Top **CC**=Coastal Construction finish [5] **CE**=CE Marking and Small Terminal Block [24] **AHD145**=After Hours Dim, 5 Hours [16] **AHD245**=After Hours Dim, 6 Hours [16] **AHD255**=After Hours Dim, 7 Hours [16] **AHD355**=After Hours Dim, 8 Hours [16] **DALI**=DALI Driver [11]	**BPC**=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) **PR**=NEMA 3-PIN Twistlock Photocontrol Receptacle **PR7**=NEMA 7-PIN Twistlock Photocontrol Receptacle [15] **MS-LXX**=Motion Sensor for On/Off Operation [17, 18, 19] **MS/DIM-LXX**=Motion Sensor for Dimming Operation [17, 18, 19] **ZW**=WaveLinx-enabled 4-PIN Twistlock Receptacle [29, 30] **ZD**=WaveLinx Module with DALI driver and 4-PIN Receptacle [29, 30] **SWPD4XX**=WaveLinx Sensor Only, 7'-15' [31, 32] **SWPD5XX**=WaveLinx Sensor Only, 15'-40' [31, 32] **WOBXX**=WaveLinx Sensor with Bluetooth, 7'-15' [31, 32] **WOFXX**=WaveLinx Sensor with Bluetooth, 15'-40' [31, 32] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height [19, 20, 21] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height [19, 20, 21]	**OA/RA1013**=Photocontrol Shorting Cap [28] **OA/RA1016**=NEMA Photocontrol - Multi-Tap 105-285V [28] **OA/RA1201**=NEMA Photocontrol - 347V [28] **OA/RA1027**=NEMA Photocontrol - 480V [28] **MA1252**=10kV Circuit Module Replacement **MA1059XX**=Thru-branch Back Box (Must Specify Color) **LS/HSS**=Field Installed House Side Shield [23, 25] **LS/GRSBK**=Glare Shield, Black [8, 25, 27] **LS/GRSWH**=Glare Shield, White [8, 25, 27] **LS/PFS**=Perimeter Shield, Black **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [17] **WOLC-7P-10A**=WaveLinx Outdoor Control Module (7-pin) [26, 29] **SWPD4-XX**=Wavelinx Wireless Sensor, 7' – 15' Mounting Height [29, 30, 31, 32] **SWPD5-XX**=Wavelinx Wireless Sensor, 15' – 40' Mounting Height [29, 30, 31, 32]

NOTES:

1. DesignLight Consortium® Qualified. Refer to www.designlights.org, Qualified Products List under Family Models for details.
2. Two light squares with CBP options limited to 25°C. Not available in combination with sensor options at 1200mA.
3. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
4. Not available with HA option.
5. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
6. Require the use of a step down transformer. Not available in combination with sensor options at 1200mA.
7. 480V must use Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
8. Reserved.
9. Cannot be used with other control options.
10. Low voltage control leads extended 18" from fixture.
11. Not available in 1200mA. When used with CBP or HA options, only available with single light square.
12. Not available in 1200mA, UPL or CBP options. Available with single light square.
13. Not available with SL2, SL3, SL4, HA, CBP, PR or PR7 options.
14. Operates a single light square only. Operates at -20°C to +40°C. Backbox is non-IP rated. Control option limited to BPC.
15. Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls.
16. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
17. The FSIR-100 configuration tool is required to adjust parameters such as high and low modes, sensitivity, time delay and cutoff. Consult your lighting representative at Cooper Lighting Solutions for more information.
18. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting.)
19. Includes integral photosensor.
20. Enlighted wireless sensors are factory installed requiring network components in appropriate quantities.
21. Bronze sensor is shipped with Bronze fixtures. White sensor shipped on all other housing color options.
22. Not available with HSS or GRS options.
23. Not for use with 5NQ, 5MQ, 5WQ or RW optics. The light square trim plate is painted black when the HSS option is selected.
24. CE is not available with the 1200, DALI, LWR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.
25. One required for each light square.
26. Requires PR7.
27. Not for use with T4FT, T4W or SL4 optics.
29. Cannot be used in conjunction with additional photocontrol or other controls systems (BPC, PR, PR7, MS, LWR).
30. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
31. Requires ZW or ZD receptacle.
32. Replace XX with sensor color (WH, BZ, or BK).
33. Specify 120V or 277V.

Product Specifications

Construction

- Driver enclosure thermally isolated from optics for optimal thermal performance
- Die-cast aluminum heat sinks
- IP66 rated housing
- 1.5G vibration rated

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 13 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical

- LED driver assembly mounted for ease of maintenance
- Standard with 0-10V dimming
- Optional 10kV or 20kV surge module
- Suitable for operation in -40C to 40C ambient environments. Optional 50C high ambient (HA) configuration.

Mounting

- Gasketed and zinc plated rigid steel mounting attachment
- "Hook-N-Lock" mechanism for easy installation

Finish

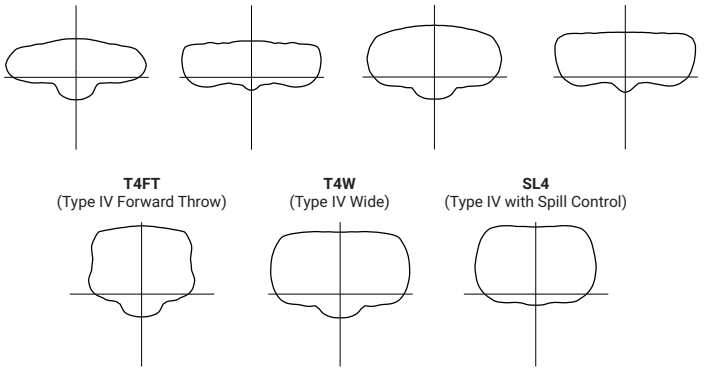
- Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

Warranty

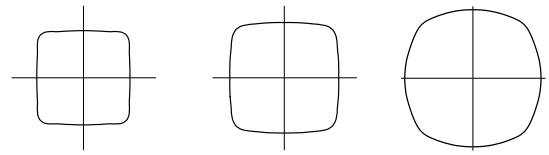
- Five-year warranty

Optical Distributions

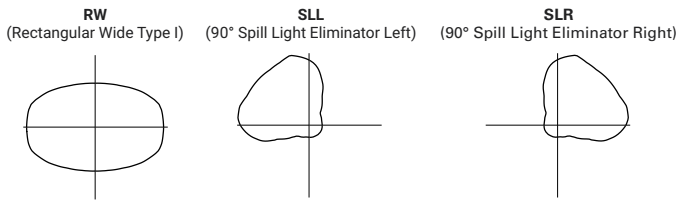
Asymmetric Area Distributions



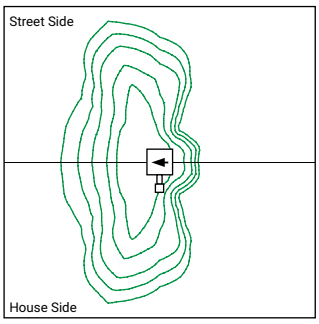
Symmetric Distributions



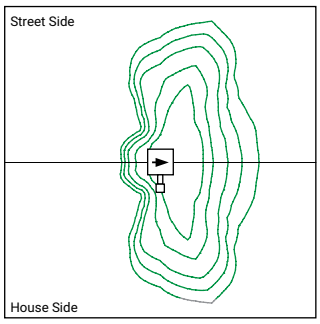
Specialized Distributions



Optic Orientation



Optics Rotated Left @ 90° [L90]



Optics Rotated Right @ 90° [R90]

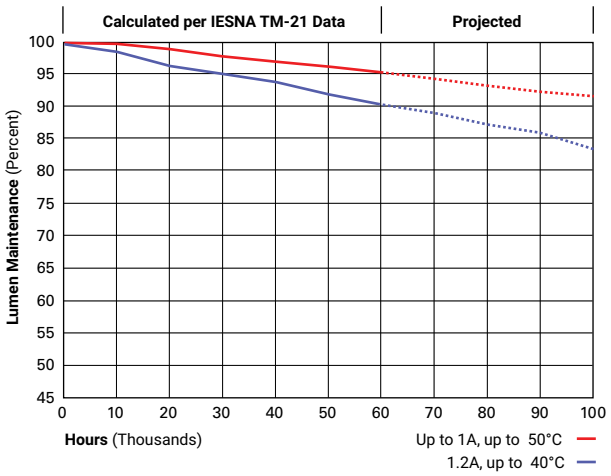
Energy and Performance Data

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

Lumen Maintenance

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	> 416,000
1.2A	Up to 40°C	> 90%	> 205,000



Energy and Performance Data

View GWC Galleon Wall IES files

4000K/5000K/6000K CCT, 70 CRI

Number of Light Squares		1				2			
Drive Current		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	1.2A
Nominal Power (Watts)		34	44	59	67	66	86	113	129
Input Current @ 120V (A)		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (A)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (A)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	Lumens	4,883	5,989	7,412	8,131	9,543	11,703	14,485	15,891
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens per Watt	144	136	126	121	145	136	128	123
T3	Lumens	4,978	6,105	7,556	8,288	9,729	11,929	14,764	16,196
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
T4FT	Lumens	5,008	6,140	7,599	8,337	9,783	11,998	14,850	16,290
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	147	140	129	124	148	140	131	126
T4W	Lumens	4,942	6,060	7,502	8,229	9,658	11,843	14,658	16,080
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
	Lumens per Watt	145	138	127	123	146	138	130	125
SL2	Lumens	4,874	5,979	7,399	8,117	9,528	11,684	14,461	15,863
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3
	Lumens per Watt	143	136	125	121	144	136	128	123
SL3	Lumens	4,976	6,104	7,555	8,287	9,727	11,927	14,763	16,194
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
SL4	Lumens	4,729	5,799	7,178	7,873	9,239	11,333	14,025	15,387
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4
	Lumens per Watt	139	132	122	118	140	132	124	119
5NQ	Lumens	5,134	6,296	7,793	8,547	10,033	12,303	15,226	16,704
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	Lumens per Watt	151	143	132	128	152	143	135	129
5MQ	Lumens	5,228	6,412	7,935	8,705	10,216	12,529	15,508	17,011
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	154	146	134	130	155	146	137	132
5WQ	Lumens	5,242	6,428	7,956	8,728	10,244	12,563	15,548	17,056
	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	154	146	135	130	155	146	138	132
SLL/SLR	Lumens	4,373	5,365	6,640	7,283	8,547	10,481	12,973	14,231
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	129	122	113	109	130	122	115	110
RW	Lumens	5,087	6,238	7,721	8,472	9,941	12,190	15,088	16,553
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	150	142	131	126	151	142	134	128

* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.

3000K CCT, 80 CRI

Number of Light Squares		1				2			
Drive Current		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	1.2A
Nominal Power (Watts)		34	44	59	67	66	86	113	129
Input Current @ 120V (A)		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (A)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (A)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	Lumens	3,880	4,759	5,890	6,461	7,583	9,300	11,510	12,628
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	114	108	100	96	115	108	102	98
T3	Lumens	3,956	4,851	6,004	6,586	7,731	9,479	11,732	12,870
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	116	110	102	98	117	110	104	100
T4FT	Lumens	3,980	4,879	6,038	6,625	7,774	9,534	11,800	12,945
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	117	111	102	99	118	111	104	100
T4W	Lumens	3,927	4,816	5,961	6,539	7,675	9,411	11,648	12,778
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	116	109	101	98	116	109	103	99
SL2	Lumens	3,873	4,751	5,880	6,450	7,571	9,285	11,491	12,605
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	114	108	100	96	115	108	102	98
SL3	Lumens	3,954	4,851	6,004	6,585	7,729	9,478	11,731	12,868
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	116	110	102	98	117	110	104	100
SL4	Lumens	3,758	4,608	5,704	6,256	7,342	9,006	11,145	12,227
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3
	Lumens per Watt	111	105	97	93	111	105	99	95
5NQ	Lumens	4,080	5,003	6,193	6,792	7,973	9,776	12,099	13,274
	BUG Rating	B2-U0-G0	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
	Lumens per Watt	120	114	105	101	121	114	107	103
5MQ	Lumens	4,154	5,095	6,305	6,917	8,118	9,956	12,323	13,518
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	122	116	107	103	123	116	109	105
5WQ	Lumens	4,166	5,108	6,322	6,936	8,140	9,983	12,355	13,553
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	123	116	107	104	123	116	109	105
SLL/SLR	Lumens	3,475	4,263	5,276	5,787	6,792	8,329	10,309	11,309
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	102	97	89	86	103	97	91	88
RW	Lumens	4,042	4,957	6,135	6,732	7,900	9,687	11,990	13,154
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
	Lumens per Watt	119	113	104	100	120	113	106	102

Control Options

0-10V This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

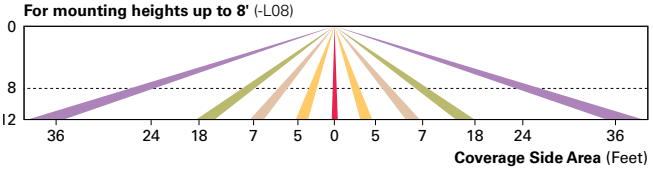
Photocontrol (BPC, PR, and PR7) Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

After Hours Dim (AHD) This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

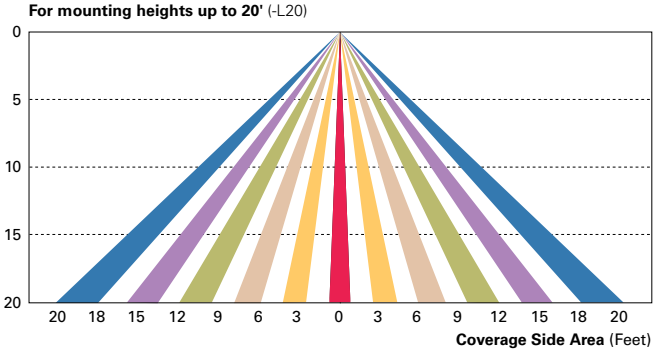
Dimming Occupancy Sensor (MS/DIM-LXX and MS-LXX) These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.

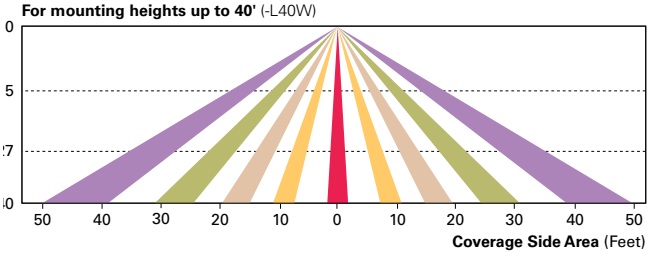
For mounting heights up to 8' (-L08)



For mounting heights up to 20' (-L20)

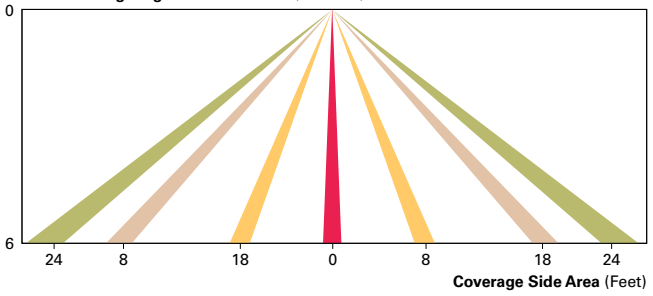


For mounting heights up to 40' (-L40W)

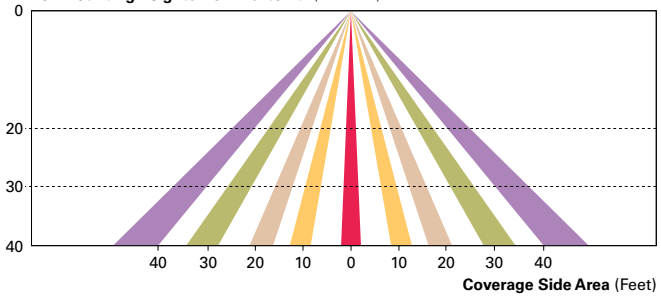


Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted control system is a connected lighting solution, combining LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes while collecting valuable data about building performance and use. Software applications utilizing energy dashboards maximize data inputs to help optimize the use of other resources beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)



For mounting heights from 16' to 40' (LWR-LN)



WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A) The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

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Specification Sheet

MAIN BUILDING

COLOR-CHANGE WALL WASH LIGHTING FOR CONC. TILT WALLS AT MAIN ENTRY

F

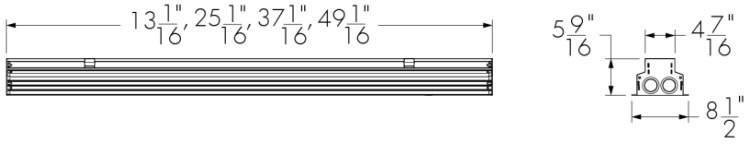
lumenfacade
Inground Direct View
LOID

WHITE AND STATIC COLORS

Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____

Top view



Front and side views

Photometric Summary

Delivered output (lm)	Intensity (peak cd)
810	316

Based on 4000K, 4ft [1219mm] configuration.
Photometric performance is measured in compliance with IESNA LM-79-08.

Optics

Direct view

Colors and Color Temperatures

2200K 2700K 3000K 3500K 4000K

Red Green Blue

Controls

ON/OFF 0-10V DALI

lumentalk DMXrdm EcoSystem Enabled

Ratings

IP68 IK10

Certifications

cULus CE RoHS 5 YEARS

Description

The Lumenfacade Inground Direct View is an LED luminaire designed for ground-recessed lighting applications, including asymmetric wall washing, grazing, and linear wayfinding. An innovative, plug and play design simplifies installation, protecting the system from water infiltration and ensuring long-lasting performance. Featuring second generation LED technology, the Lumenfacade Inground is available in four different sizes (12 in, 24 in, 36 in or 48 in), with a wide choice of outputs, color temperatures, color-mixing systems, optics and controls. A unique asymmetric wallwash distribution is also available, providing exceptional uniformity and brightness for walls and signage.

Features

Construction	Walk over compliant up to 500 kg in any type of ground, Walk over compliant up to 1000 kg in concrete
Color and Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K, Red, Green, Blue
Length (nominal)	12 in, 24 in, 36 in, 48 in
Optics	Direct view
Options	Anti-slip lens, CE (certification covers European Economic Area)
Power Consumption	5 W/ft, Typically 20% higher for 12 in fixture lengths
Warranty	5-year limited warranty

Performance

Color Consistency	2 SDCM, 3 SDCM (2200K)
Color Rendering	Minimum CRI 80
Lumen Maintenance	L70 280,000 hrs, L95 35,000 hrs

Physical

Optical Chamber Material	Aluminum
Blockout Material	Polymer recycled PVC reinforced with a stainless steel frame

lumenpulse™

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T United States 617.307.5700 | Canada 1.877.937.3003 | 514.937.3003 **F** 514.937.6289
www.lumenpulse.com/products/2037

Trim Material	Anodized aluminum
Lens Material	Frosted glass
End Cap Material	Die cast aluminum
Hardware Material	Stainless steel
Weight	12 in: 7.5 lbs, 24 in: 15.3 lbs, 36 in: 21.4 lbs, 48 in: 27 lbs

Electrical and control

Voltage	120 to 277 volts
Fixture Cable	Power and data in one cable
Leader Cable Conductor	5C #16-5
Connectors	IP68 push-lock
Control	On/Off control, Lumentalk, 0-10V dimming, DALI dimming, Lutron® EcoSystem® Enabled dimming, DMX/RDM enabled
Resolution (DMX/RDM)	Per foot or per fixture (configured with LumenID V3 software), 8-bit or 16-bit

Environmental

Storage Temperature	-40 °F to 185 °F (device must reach start-up temperature value before operating)
Start-up Temperature	-13 °F to 122 °F
Operating Temperature	-40 °F to 122 °F
Ingress Protection Rating	IP68 rated for up to 1 ft, not suitable for permanent immersion applications
Impact Resistance Rating	IK10

Accessories (order separately)

Cables	Lumenfacade Inground Leader Cable, Lumenfacade Inground Jumper Cable
Electrical Accessories	Lumenfacade Inground Junction Box
Control Boxes	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration)
Control Systems	Lumentone™ 2, Pharos® kit
Diagnostic and Addressing Tools	LumenID, LumentalkID

Cables (order separately)

LOILC - Leader cable for Lumenfacade Inground

LOILC-**CERTIFICATION-LENGTH**

Please specify:
CERTIFICATION: UL or CE; **LENGTH**: 10 ft, 25 ft or 50 ft

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Inground leader cable specification sheet for details.

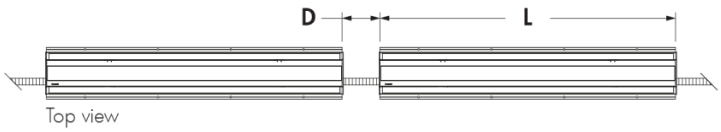
LOIJC - Jumper cable for Lumenfacade Inground

LOIJC-**CERTIFICATION-LENGTH**

Please specify:
CERTIFICATION: UL or CE; **LENGTH**: 2 ft, 4 ft or 10 ft

- Suitable for dimming/data and non-dimming applications.
- Consult Lumenfacade Inground jumper cable specification sheet for details.

Jumper cable length selection



Top view

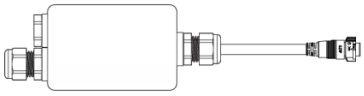
D - distance between two fixtures
L - length of fixture

Add the length of one fixture to the distance between two fixtures: L + D. Order the next longest jumper cable available: 2 ft, 4 ft or 10 ft.

Example: if the distance between two 4 ft fixtures is 0.5 ft, L + D = 4.5 ft, therefore a 10 ft jumper cable is required.

Electrical accessories (order separately)

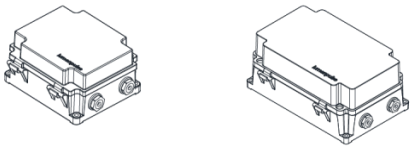
LOI-JBOX - Lumenfacade Inground Junction Box



Lumenfacade Inground IP68 sealed junction box starter kit. Use for stand alone fixtures and/or first of run installations. The LOI-JBOX accessory does not fit in 12 in fixtures.

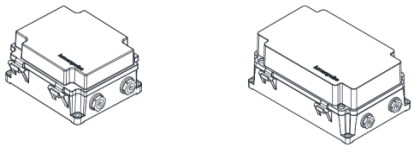
Control boxes (order separately)

CBX-DMX/RDM - DMX/RDM enabled (daisy chain or star configuration)



DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

CBX-ENET - Ethernet enabled (daisy chain or star configuration)



Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

Control systems (order separately)

LTN2 - Lumentone™ 2

Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® kit

The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

Diagnostic and addressing tools (order separately)

LID - LumenID

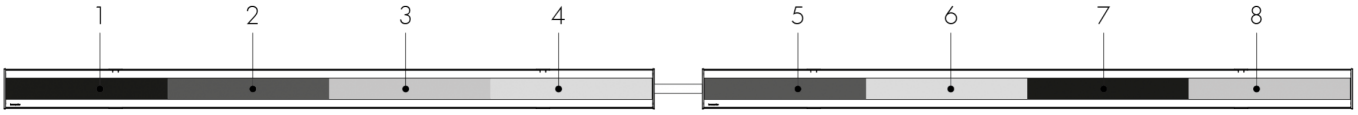
LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

LID-LT - LumentalkID

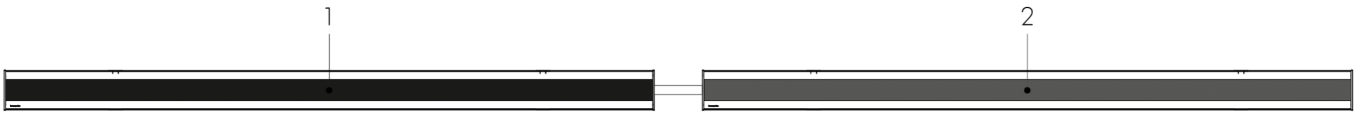
LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

Resolution details

DMX/RDM control, resolution per foot: each 12 in section is addressed independently
DMX addresses:



DMX/RDM control, resolution per fixture: each fixture is addressed independently
DMX addresses:



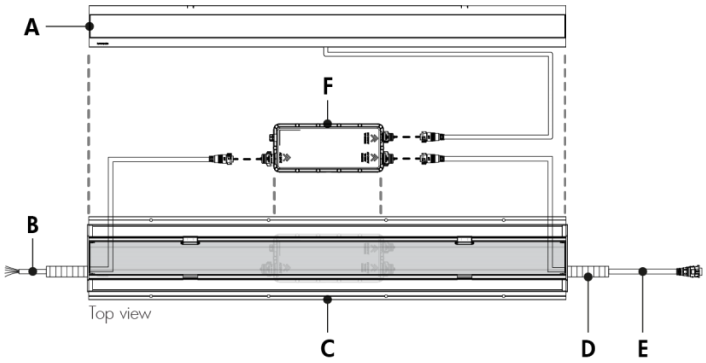
- 48 in fixtures shown.
- Applicable for DMX/RDM control option only. Fixture resolution can be configured on-site within the LumenID V3 software. A DMX/RDM enabled CBX is required.

Typical wiring diagrams

Wiring color code

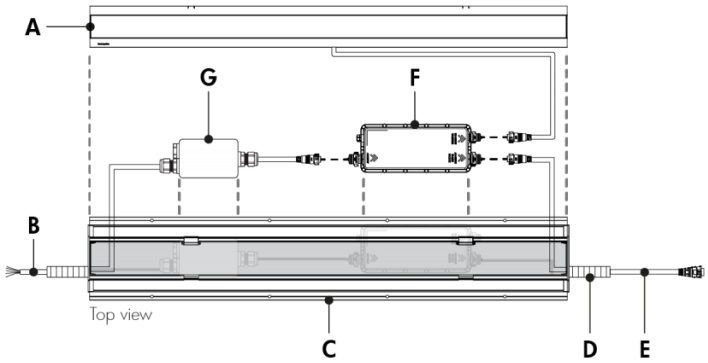
UL Color Code	USE
Green	Ground
Black	Line
White	Line/Neutral
Red or Purple	0-10V / Data +
Orange	0-10V / Data -

Typical installation with leader cable



A - Optical chamber
B - Leader cable (LOILC, order separately)
C - Blockout
D - Conduit (by others)
E - Jumper cable to next fixture (LOIJC, order separately, for continuous run installations)
F - PACBOX

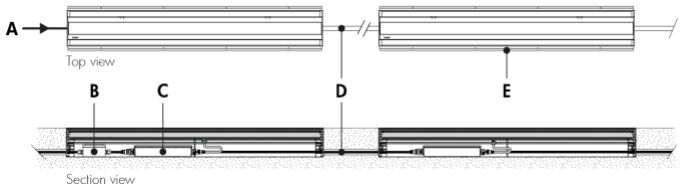
Typical installation with IP68 LOI-JBOX accessory



A - Optical chamber
B - Power and data input cable (by others)
C - Blockout
D - Conduit (by others)
E - Jumper cable to next fixture (LOIJC, order separately, for continuous run installations)
F - PACBOX
G - IP68 LOI-JBOX (order separately)

The IP68 LOI-JBOX accessory cannot be used with 12 in fixtures.

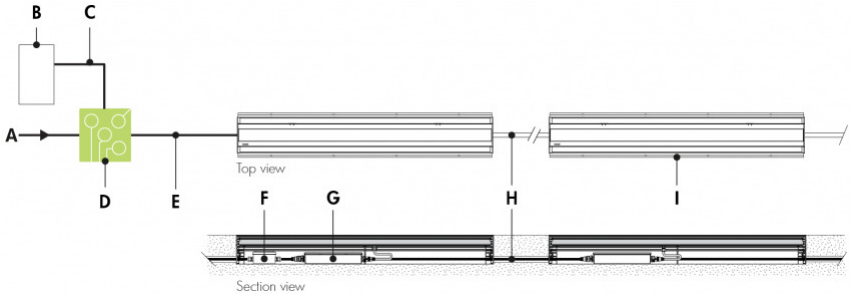
On/Off Control (NO)



A - Power input (120-277V, wiring by others)
B - IP68 LOI-JBOX (optional)
C - PACBOX
D - Jumper cable (LOIJC)
E - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 5 W/ft.

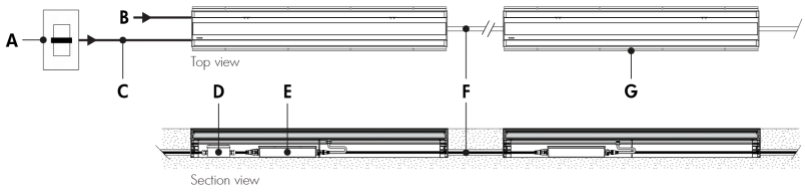
Lumentalk (LT)



A - Power input (100-277V AC, wiring by others)
B - Dimmer/controller (order separately from Lumenpulse, or by others)
C - Data wiring (by others)
D - Lumentranslator 2 (LTL2-DIM, -DMX, -TRIAC, -DALI)
E - Power wiring (by others)
F - IP68 LOI-JBOX (optional)
G - PACBOX
H - Jumper cable (LOIJC)
I - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for applications that require additional capabilities.
- Consult factory for DALI Lumentalk applications.
- 1% minimum dimming value.
- 5 W/ft.

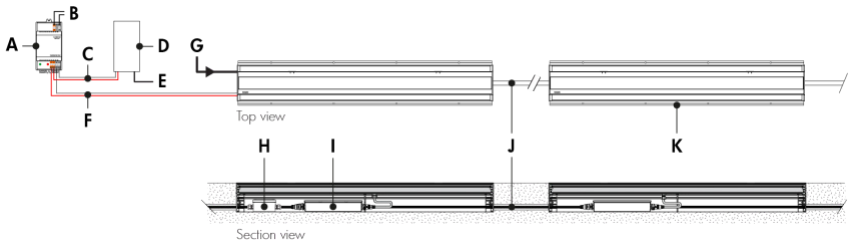
0-10V dimming (DIM)



A - Dimmer (by others)
B - Power input (120-277V, wiring by others)
C - Data wiring (by others)
D - IP68 LOI-JBOX (optional)
E - PACBOX
F - Jumper cable (LOIJC)
G - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3 mA per fixture, active dimmer (Current Source): 0.5 mA per fixture.
- 10% minimum dimming value.
- 5 W/ft.

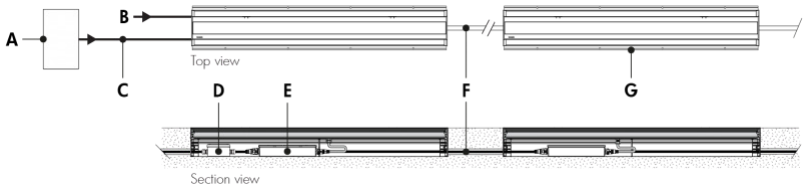
DALI dimming (DALI)



A - DALI bus power supply (by others)
B - Power input for DALI bus power supply (wiring by others)
C - Data output to DALI controller (wiring by others)
D - DALI controller (by others)
E - Power input for DALI controller (wiring by others)
F - Data output to fixture (wiring by others)
G - Power input (120-277V, wiring by others)
H - IP68 LOI-JBOX (optional)
I - PACBOX
J - Jumper cable (LOIJC)
K - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- 1% minimum dimming value.
- 5 W/ft.

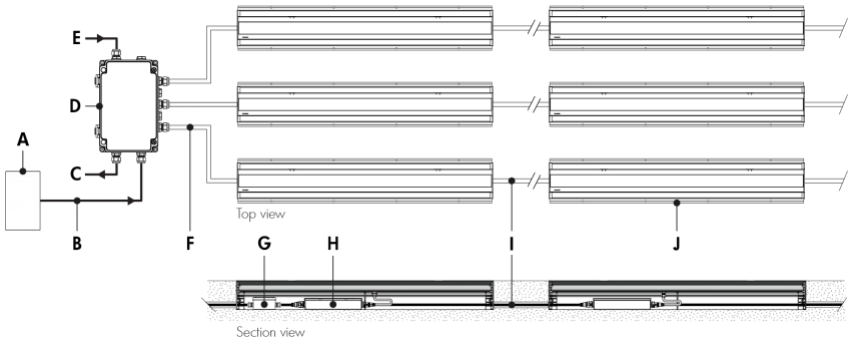
Lutron® EcoSystem® Enabled dimming (ES)



A - Lutron® EcoSystem® controller (by others)
B - Power input (120-277V, wiring by others)
C - Data wiring (by others)
D - IP68 LOI-JBOX (optional)
E - PACBOX
F - Jumper cable (LOIJC)
G - Lumenfacade Inground

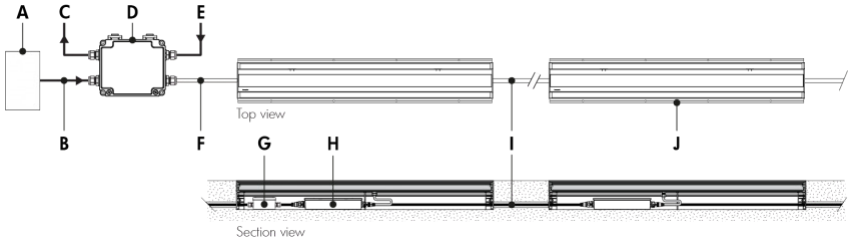
- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Each Lutron® EcoSystem® enabled fixture has its own address; for the example shown, there are a total of 2 EcoSystem® addresses.
- 1% minimum dimming value.
- 5 W/ft.

Star Layout (DMX/RDM)



A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-ST
E - Power input (120-277V, wiring by others)
F - Leader cable (LOILC)
G - IP68 LOI-JBOX (optional)
H - PACBOX
I - Jumper cable (LOIJC)
J - Lumenfacade Inground

Daisy Chain Layout (DMX/RDM)



A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-DS
E - Power input (120-277V, wiring by others)
F - Leader cable (LOILC)
G - IP68 LOI-JBOX (optional)
H - PACBOX
I - Jumper cable (LOIJC)
J - Lumenfacade Inground

- Consult the installation instructions for additional wiring details.
- Consult factory for specific applications and maximum fixture count/cable length recommendations. Maximum run length calculations are typically based on 48 in fixtures.
- The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run.
- Maximum of 4 DMX/RDM repeaters/CBX cascading in line.
- Maximum of 6 outputs per CBX-ST; maximum of 1 output per CBX-DS.
- Each fixture requires 1 DMX address.
- 1% minimum dimming value.
- 5 W/ft.

How to order

Housing [1] [2] [3]	Voltage	Length	Color and Color Temperature [4]	Control	Options
LOID Lumenfacade™ Inground Direct View, 5 W/ft	**120/277** 120-277 volts	**12** 13 1/16 in (7.5 lbs) [3] **24** 25 1/16 in (15.3 lbs) **36** 37 1/16 in (21.4 lbs) **48** 49 1/16 in (27 lbs)	**22K** 2200K **27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **RD** Red [5] **GR** Green [5] **BL** Blue [5]	**NO** On/Off control **LT** Lumentalk [6] **DIM** 0-10V dimming **DALI** DALI dimming **ES** Lutron® EcoSystem® Enabled dimming **DMX/RDM** DMX/RDM enabled [7]	**ASL** Anti-slip lens **CE** CE (certification covers European Economic Area) [8]

Notes:

1. A Lumenfacade Inground fixture includes one optical chamber (LOIC), one power and control box (PACBOX) and one recessed blockout (RBO). The LOIC, PACBOX and RBO are provided according to the output/color, length and control configuration.
2. Consult the installation instructions to plan all aspects of the fixture installation. A completed Certificate of Installation must be returned to Lumenpulse to activate the warranty.
3. Power consumption is typically 20% higher for 12 in fixture lengths.
4. Consult factory for availability of static Royal Blue, 6500K and 90+ CRI.
5. Static colors made to order 8-10 weeks.
6. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
7. A control box (CBX) and LumenID (LID) must be specified.
8. Consult European specification sheet and installation instructions for CE wiring information.

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Date: _____ Customer: _____

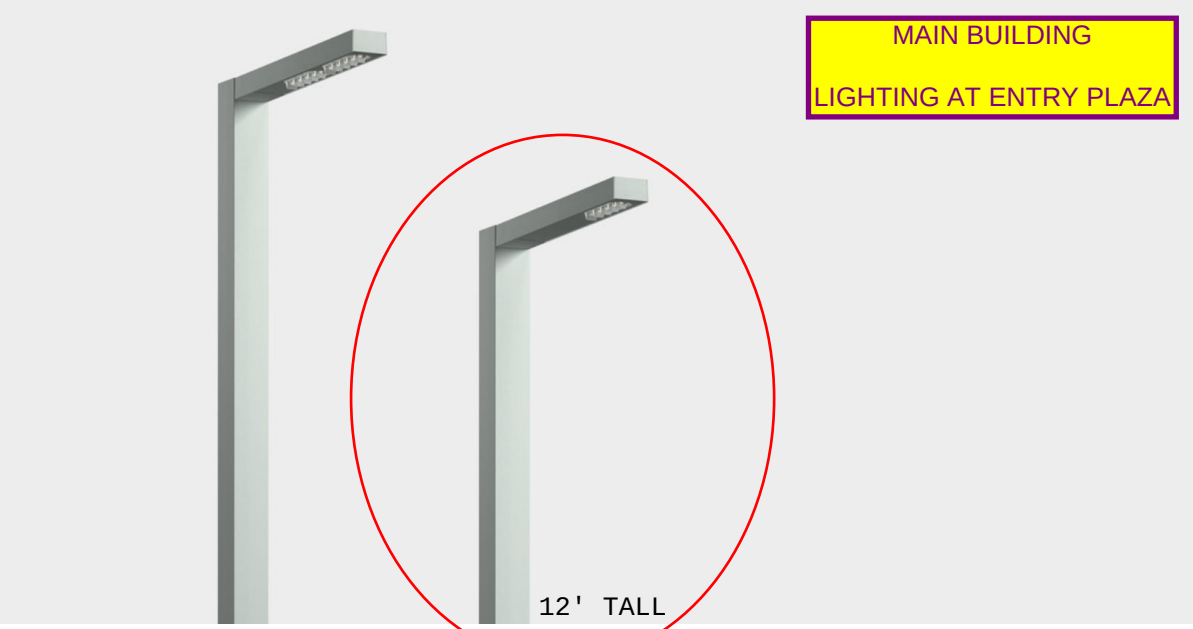
Project: _____

Type: G _____ Qty: 10 _____

selux

G

Arca LED Gen5



ACL	Series	**ACL** Arca LED						
_____	Optics	**R1** Type I	**R2** Type II	**R3** Type III	**R3W** Type III (Wide)	**R4** Type IV	**R5R** Type V (Round)	**R5S** Type V (Square)	**R5Q** Type V (Rectangular)
_____	Mounting	**S1** Single	**S2** Double	**SBX**[1] Sistema Mount	**W** Wall Mount				[1] Max 4 heads (SB4)
_____	Light Engine	**5G1350** Single LED 24W/2520lm	**5G1530** Single LED 36W/3540lm	**5G1800** Single LED 54W/5346lm	**5G2350**[2] Double LED 48W/5040lm	**5G2530**[2] Double LED 72W/6558lm	**5G2800**[2] Double LED 100W/9900lm		* Based on RI distribution and 3000K CCT [2] Only available with S1 and S2 mounting
_____	CCT	**27**[3] 2700K	**30**[3] 3000K	**40** 4000K					* For other CCT please consult factory [3] 2700K and 3000K IDA approved
_____	Finish	**WH** White	**BK** Black	**BL** Semi-Matte Black	**BZ** Bronze	**SV** Silver	**SP** Specify Premium Color		
_____	Voltage	**120** 120V	**240** 240V	**277** 277V	**347**[4,5] 347V	**480**[4,5] 480V			[4] 5G1350, 5G1530, 5G1800, 5G2350 come with step-down transformer in handhole [5] S2-5G2350, S2-5G2530, and S2-5G2800 come with stepdown transformer in handhole
_____	Options	**DM**[8] Dimming (0-10V)	**HS**[6] House Side Shield	**TLR**[7,8] Twist Lock Receptacle 7-Pin with Shorting Cap	**TLRP** Twist Lock Photocell (see page 8)	**TLRLL**[7,8] Twist Lock Receptacle 7-Pin with Lutron Limelight Sensor			[6] Type I, II, III, and IV only [7] Not available with DM [8] DM, or TLR only. Cannot be combined.

Product Modifications

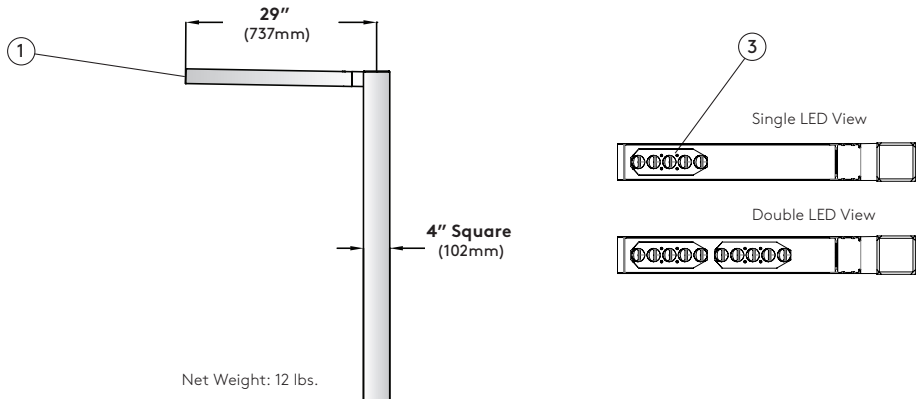
Please list modification requirements for review by factory:

Approvals

Date:

BUY AMERICAN · 5 YEAR LED WARRANTY · RoHS COMPLIANT · IP65 · IK08 · UNION MADE IBEW LOCAL 363 · ida

ACL-R2-S1



Specifications

1. Luminaire Cover - Two piece high pressure die cast housing, made of low copper aluminum alloy. Toolless latch allows easy access to light engine and gear tray components.

2. Gasketing - (not shown) UV and ozone-resistant, silicone gasket between fixture housing and lens base provide IP65 level ingress protection.

3. LED Array - High Flux LEDs mounted to metal core PCB and attached to external heat sink for maximum LED performance and life. CCT tolerance within a 3-step bin and provided with a minimum CRI of 80. LED array has a reported lumen maintenance of 93% at 50,000 hours. L70 calculated greater than 100,000 hours. Exposed face rated to IP65.

4. LED Optics - Technical Optics (R1, R2, R3,R4, R5S, and R5R) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Internal micro house side shield available for distributions types I, II, III and IV.

5. LED Driver - LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP66.

6. Surge Protection - (not shown) Designed to protect luminaire from electrical surge (20kA).

7. Power Cord - (not shown) Pre-installed at factory. Power cords are specified to fit the length of the pole specified with the luminaire.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultraviolet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI. Standard exterior colors are White (WH), Black (BK), Semi-Matte Black (BL) Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire Warranty - Selux offers a 5 Year Limited Warranty to the original purchaser that the Arca LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED array when installed and operated according to Selux instructions. For details, see "Selux Terms and Condition of Sale."

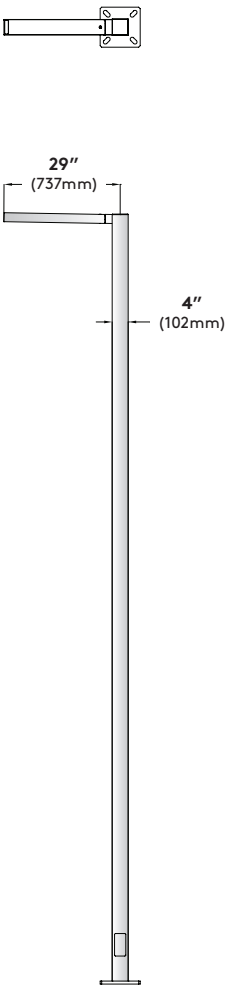
Listings and Ratings: Luminaire and LED tested to IP65 and IESNA LM-79-08 standards. LED tested to LM-80 standards. Luminaire and LED tested at 25°C ambient temperature. ARCA LED suitable for ambient temperatures of 40°C (104°F). Minimum operating temperature of luminaire at -40°C (-40°F). NRTL Listed for wet location (i.e. UL, CSA) Visit selux.us for our LED End of Life recycling policy.

NRTL Listed (i.e. UL, CSA)

For Buy American compliance on poles, please consult the factory.

Mounting

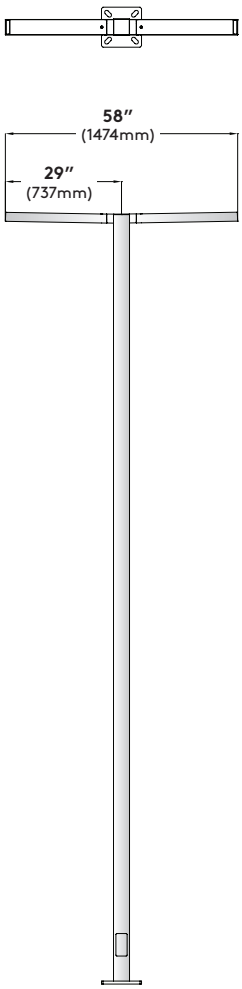
Single (S1)
Single pole top mount
(Helicoil Location: 0B)



EPA Weight = 12 lbs.

EPA
0.57ft²

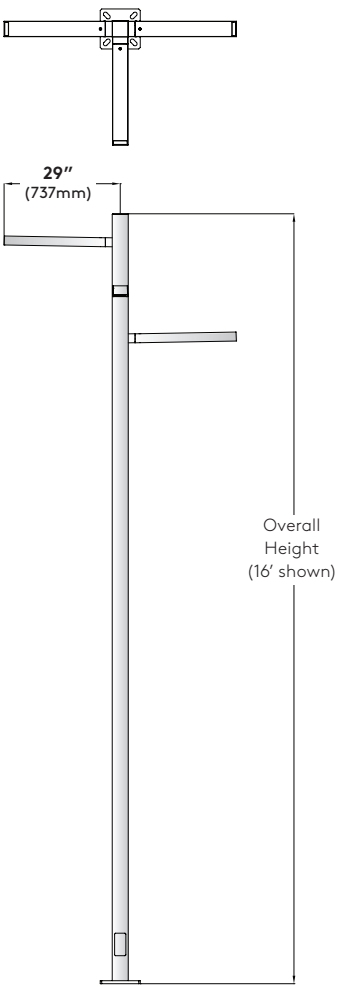
Double (S2)
Double pole top mount
(Helicoil Location: 0B-0D)



EPA Weight = 24 lbs.

EPA
1.14ft²

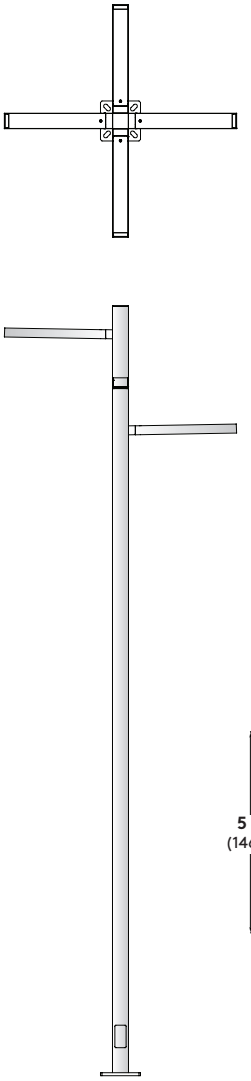
Triple (SB3)
Die cast aluminum Sistema lateral bracket secured in pole side.
(Helicoil Location: 1B-2A-3D)



EPA Weight = 36 lbs.

EPA
1.23ft²

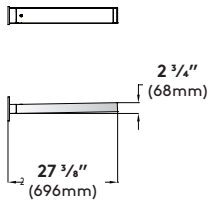
Quadruple (SB4)
Die cast aluminum Sistema lateral bracket secured in pole side.
(Helicoil Location: 1B-2A-3D-4C)



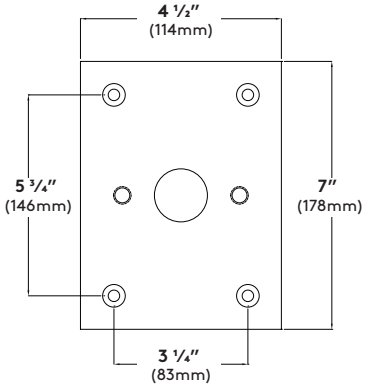
EPA Weight = 48 lbs.

EPA
1.64ft²

Wall Mount (W)
Die cast aluminum single luminaire mount and steel mounting plate secured to wall with ¼″ flat head screws.



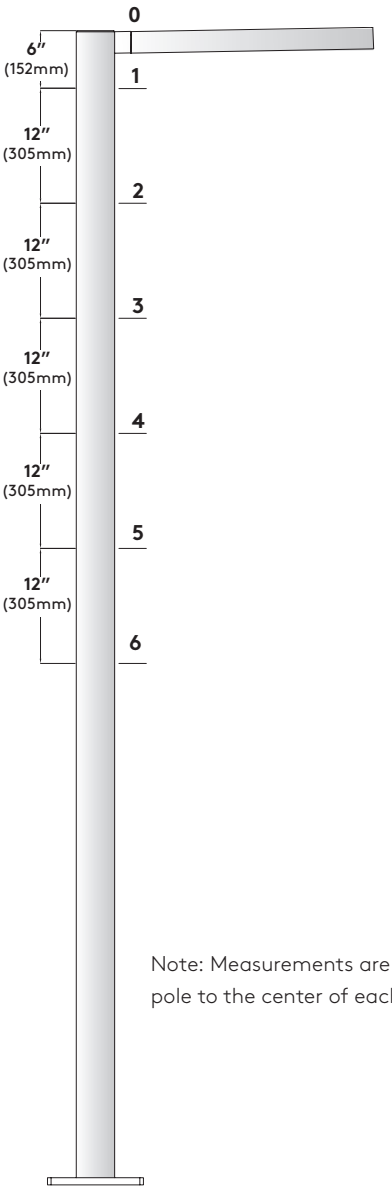
Wall Mounting Detail
(Conduit and mounting hardware by others).



EPA Weight = 12 lbs.

EPA
0.59ft²

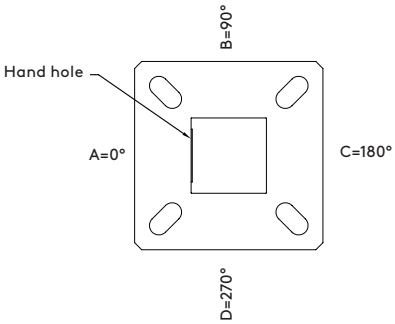
Mounting Detail



Mounting Configuration								
Height Code		0	1	2	3	4	5	6
Distance from Top of Pole		0.0′	0.5′	1.5′	2.5′	3.5′	4.5′	5.5′
Angular Location Code	**Clockwise From Handhole**							
A	**0°**							
B	**90°**							
C	**180°**							
D	**270°**							

*No Luminaire Below 7.5′

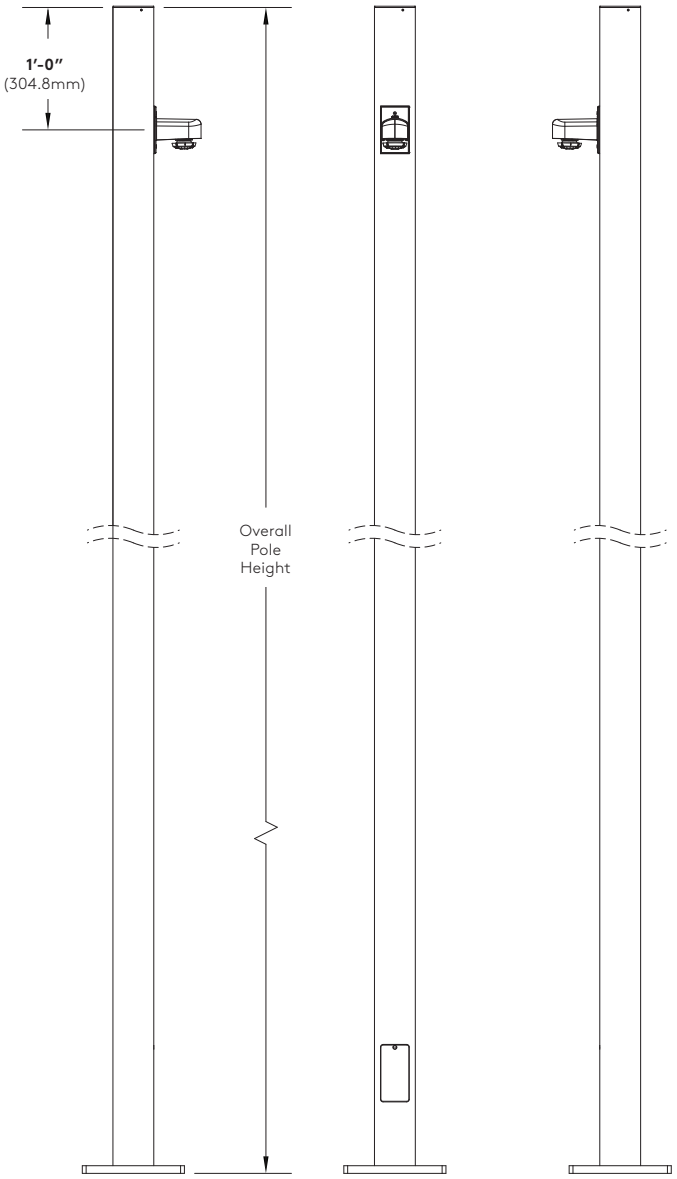
Note: Measurements are from the top of the pole to the center of each fixture



Square Pole Motion Sensor

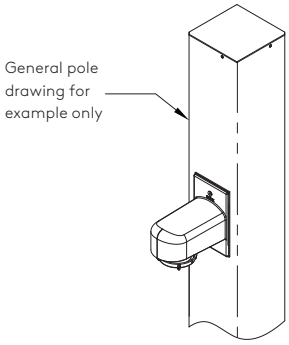
The Selux outdoor rated sensor incorporates Passive Infrared (PIR) Technology for motion sensing and also includes built-in photocell. Sensor comes pre-installed in cast aluminum housing painted to match pole finish.

Series	Optic (270° coverage)	Hand Hole Orientation	Dim Level	Photocell Feature	Voltage
MS Motion Sensor	**L** (Low 8-12ft height) **M** (Medium 13-20ft height)	**00** 0° Clockwise from Hand Hole **09** 90° Clockwise from Hand Hole **18** 180° Clockwise from Hand Hole **27*** 270° Clockwise from Hand Hole	**D0** (Off) **D1** (1V=10%) **D3** (3V=30%) **D5** (5V=50%)	**Y** Yes **N** No	**UNV** (120-277V) **347*** (347V) **480*** (480V) *consult factory for 347V and 480V

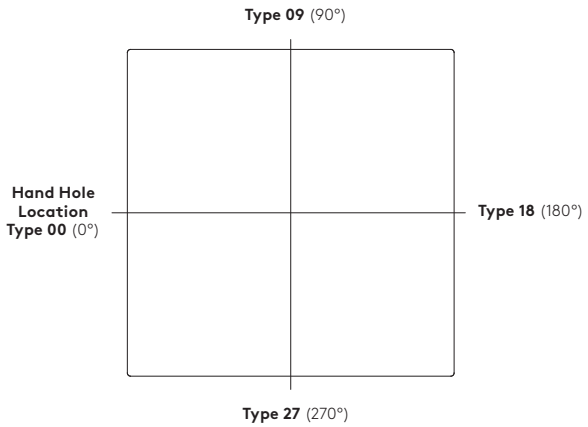


Factory Defaults:

Delay to Dim: 5 minutes
Delay to Off: 1 hour
Sensitivity: Max
Custom Programming: Consult Factory



Sensor angular orientation from hand hole 0°
90° increments clockwise around pole (Type 00, 09, 18, 27)

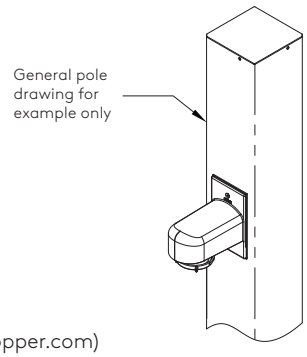


Top View

Motion Sensor Features

- Customize programming using handheld wireless remote control (FSIR-100) sold separately (by others)
- 5 Year Warranty
- 100% Digital PIR Detection, excellent RF Immunity
- 270° coverage pattern
- IP66 Rated for outdoor applications
- Made for LED light source
- Adjustable time delays, max/min dim levels, and ramp rates
- Suitable for Title 24 applications

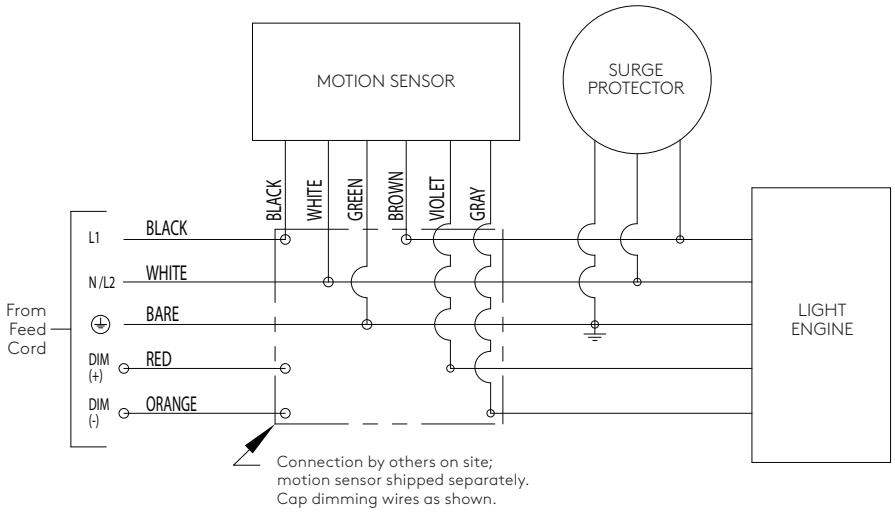
(For coverage details refer to wattstopper FSP-211 spec sheet at www.wattstopper.com)



FSIR-100 (remote)

Sold Separately (by others)

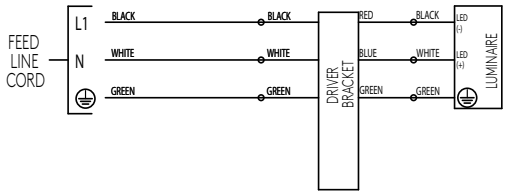
Motion Sensor Option (MS) Wiring (120V-277V)



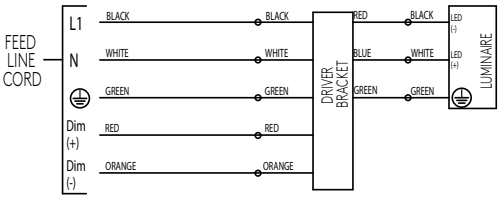
Wire Designation Table		
Source Voltage (VAC)	**Wire Color**	**Wire Designation**
UNV (120V-277V)	Black	L1
	White	Neutral (120V/277V or 208V/240V)

Arca LED Gen5 5G2 — Single LED Module Wiring

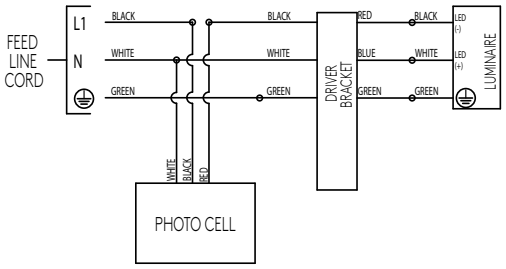
Standard Wiring



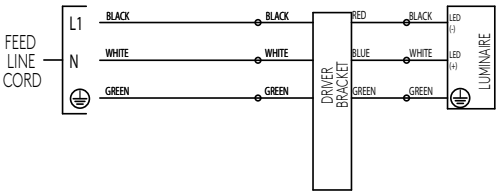
0-10V Dimming Option (DM) Wiring



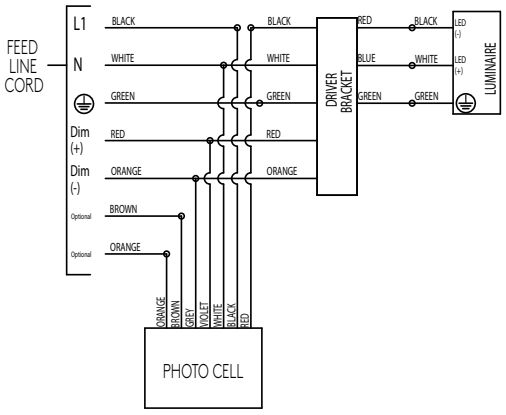
Photocell Wiring



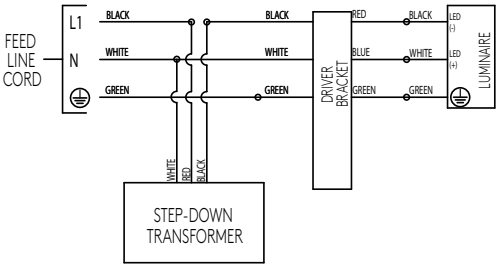
347/480V Wiring



7-Pln Receptacle Wiring

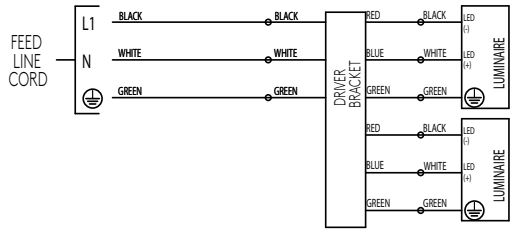


347/480V with Step-down Transformer Wiring

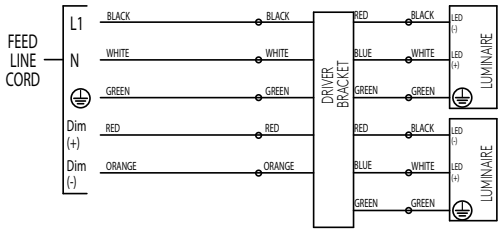


Arca LED Gen5 5G2 — Double LED Module Wiring

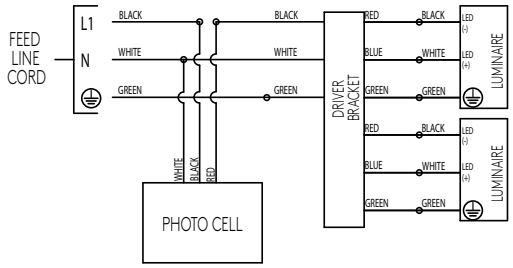
Standard Wiring



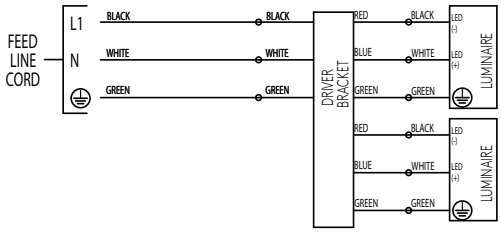
0-10V Dimming Option (DM) Wiring



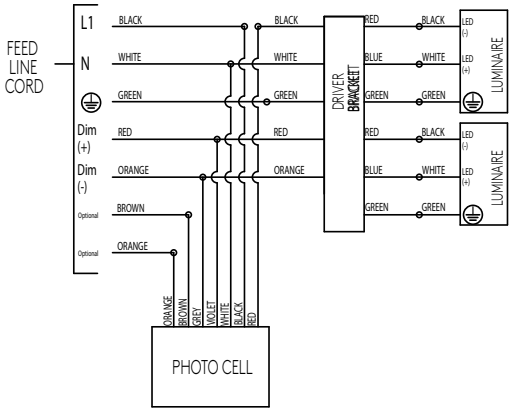
Photocell Wiring



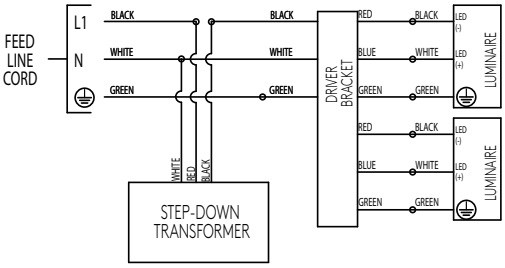
347/480V Wiring



7-Pln Receptacle Wiring

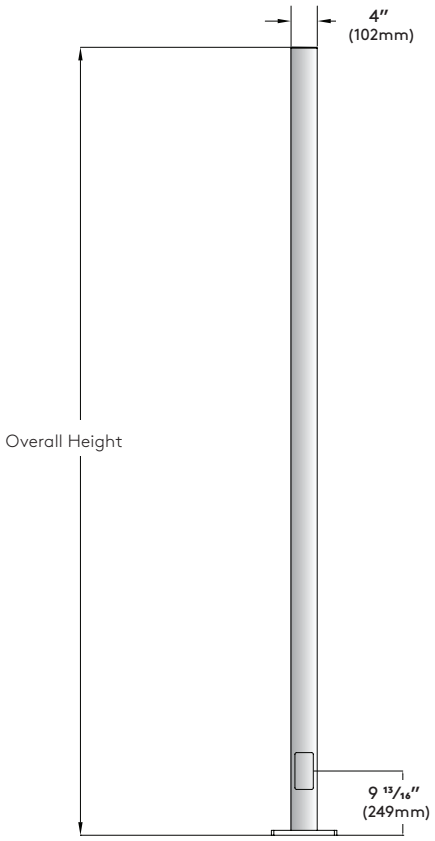


347/480V with Step-down Transformer Wiring



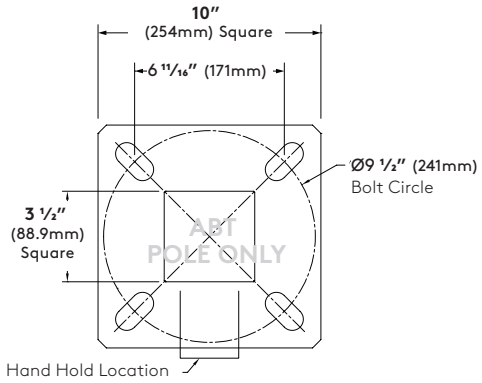
Pole Information

Arca Pole
Square Straight Aluminum



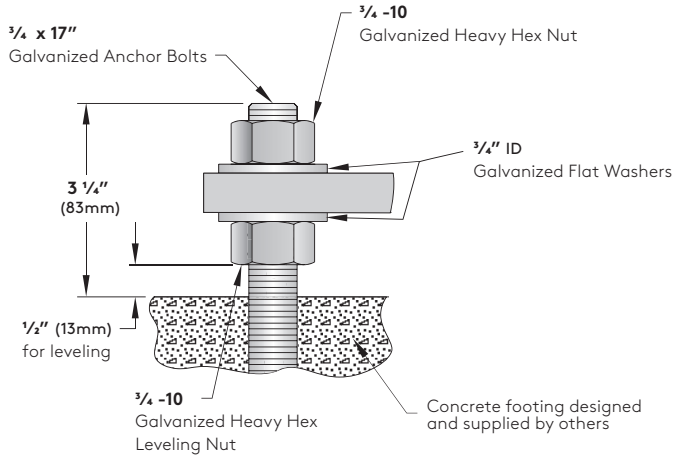
Arca Bolt Circle Template

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown.



Note: Adequate drainage must be provided in concrete foundation.

Arca Anchor Bolt Detail



Pole Data Chart

Pole Series	Bolt Circle	EPA Information – Basic Wind Speed (MPH)											Height	Finish	Helicoil Inserts	Options
		85	90	100	110	120	130	140	150	160	170	180				
A-A40-250	Ø9 1/2″	19.2	16.7	12.8	10.0	7.8	6.1	4.8	3.7	2.8	2.1	1.5	8	WH White BK Black BL Semi-Matte Black BZ Bronze SV Silver SP Specify Premium Color	HC1 1 Pair HC2 2 Pair HC3 3 Pair HC4 4 Pair	BC Base Cover REC GFCI Receptacle with weather-proof cover REC2 GFCI Receptacle with padlockable in-use cover REC3 USB & Duplex Receptacle with weatherproof cover REC4 USB & Duplex Receptacle with weatherproof padlockable in-use cover *Weatherproof cover intended for portable tools or other portable equipment connected to the outlet only when attended. For other requirements please consult factory.
		13.7	11.7	8.7	6.4	4.6	3.3	2.2	1.3	0.6	-	-	10			
		9.8	8.1	5.6	3.7	2.2	1.1	-	-	-	-	-	12			
		6.7	5.3	3.1	1.5	-	-	-	-	-	-	-	14			
		4.2	3.0	1.0	-	-	-	-	-	-	-	-	16			
		2.0	0.9	-	-	-	-	-	-	-	-	-	18			

Notes:

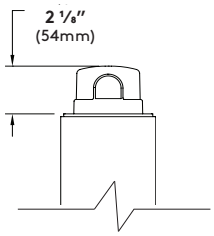
1) Maximum EPA ratings certified in accordance with AASHTO 2013 (LTS-6) for 3-s gust wind speeds based on Allowable Stress Design (ASD) analysis

2) Consult factory for equivalent Load and Resistance Factor Design (LRFD) wind speeds

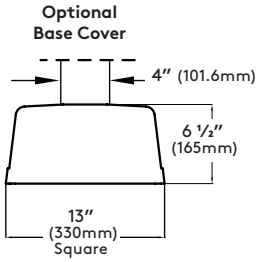
3) Rated performance is dependant upon the pole being properly attached to a supporting foundation of adequate design

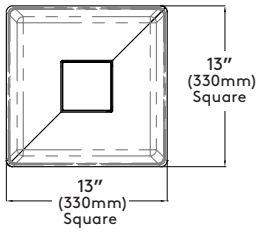
Optional Accessories

Photocell (TLRP) - 3-Pin Receptacle with Twist Lock Photocell at top of pole.

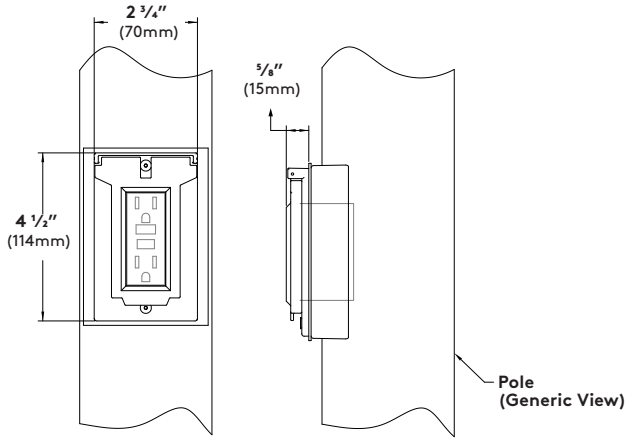


Base Cover (BC)



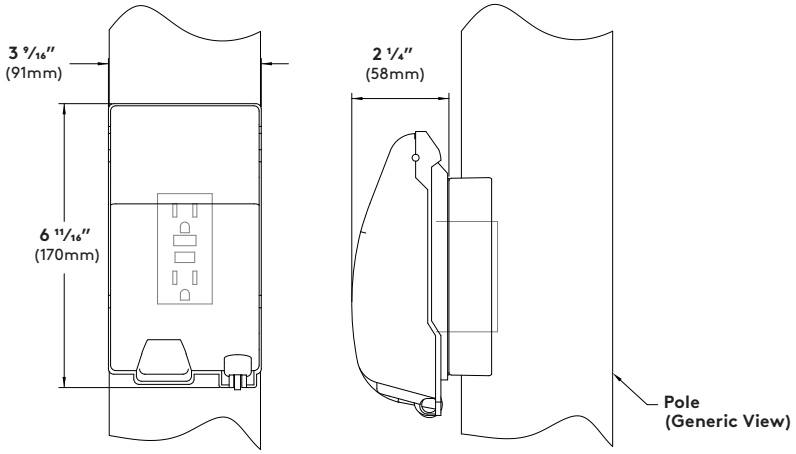


REC and REC3



Cover shown in the closed position

REC2 and REC4



Cover shown in the closed position

GFCI Receptacle (REC) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

USB & Duplex Receptacle (REC3) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC3 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

GFCI Receptacle (REC2) - 120V 15A GFCI duplex receptacle with weatherproof, self-closing, padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel (120V only).

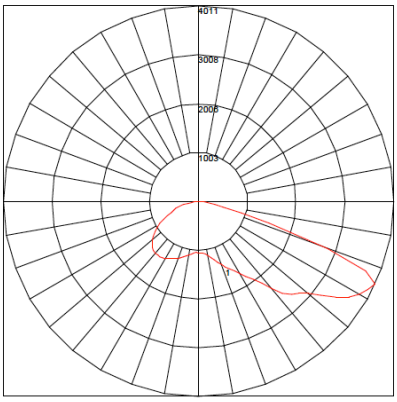
USB & Duplex Receptacle (REC4) (not shown) - 120V 20A duplex receptacle with USB combination ports. (1) type A and (1) type C high power 5A, 5V USB outlets. With weatherproof, self-closing padlockable in-use cover; located 36" (915mm) o.c. from base of pole, in-line with hand hole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel.

REC4 does not incorporate GFCI (Ground Fault Circuit Interrupter) protection, and shall be powered by a GFCI protected branch circuit (by others).

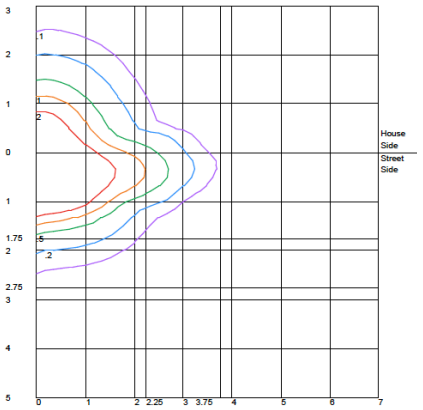
Photometry

R1 / 61W LED / 3000K CCT

Catalog #: ACL-R1-X-5G2530-30-XX-120
Report #: 13212221.15
Delivered Lumens: 7579
Efficacy: 124
IES classification: Type II
Maximum candela of 4011.3 at 65° from vertical
BUG Rating: B2-U0-G2



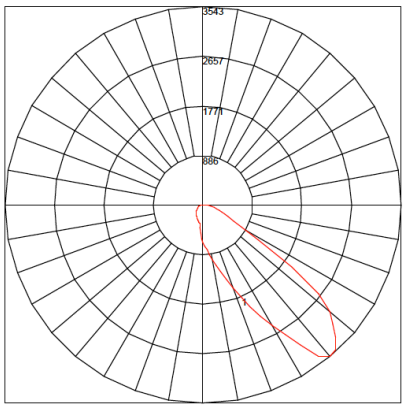
Maximum Candela = 4011.304 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)



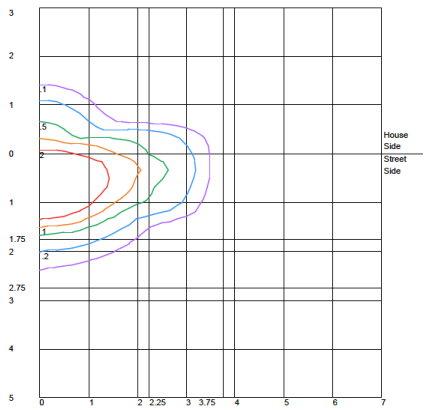
Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

R1 with HS/ 61W LED / 3000K CCT

Catalog #: ACL-R1-X-5G2530-30-XX-120-HS
Report #: 13212221.15
Delivered Lumens: 5247
Efficacy: 86
IES classification: Type II
Maximum candela of 3542.8 at 40° from vertical
BUG Rating: B2-U0-G1



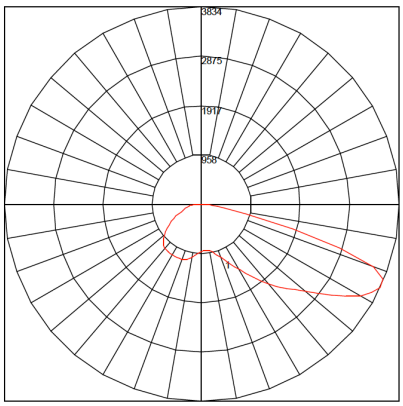
Maximum Candela = 3542.764 Located At Horizontal Angle = 0, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)



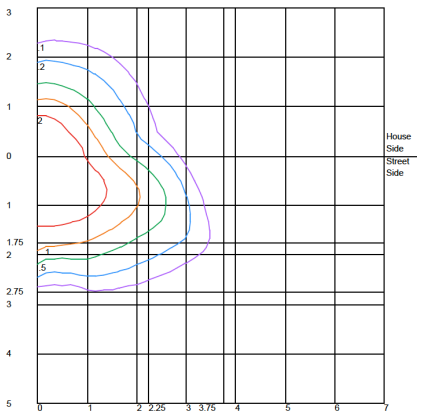
Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

R2 / 61W LED / 3000K CCT

Catalog #: ACL-R2-X-5G2530-30-XX-120
Report #: 13212221.17
Delivered Lumens: 7352
Efficacy: 121
IES classification: Type III
Maximum candela of 3833.7 at 65° from vertical
BUG Rating: B2-U0-G2



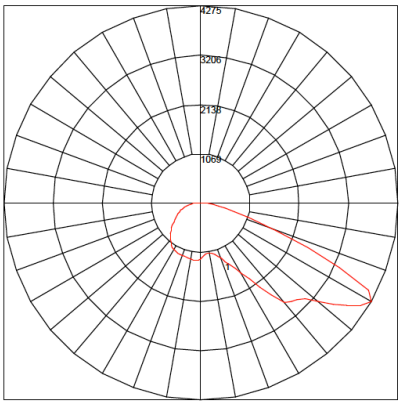
Maximum Candela = 3833.7 Located At Horizontal Angle = 62.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)



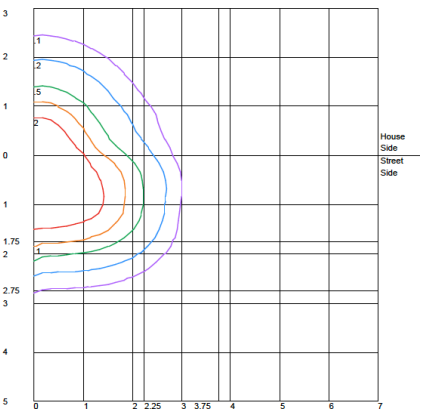
Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

R3 / 61W LED / 3000K CCT

Catalog #: ACL-R3-X-5G2530-30-XX-UNV
Report #: 113212221.17
Delivered Lumens: 7286
Efficacy: 119
IES classification: Type III
Maximum candela of 4275.1 at 60° from vertical
BUG Rating: B2-U0-G1



Maximum Candela = 4275.143 Located At Horizontal Angle = 45, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)

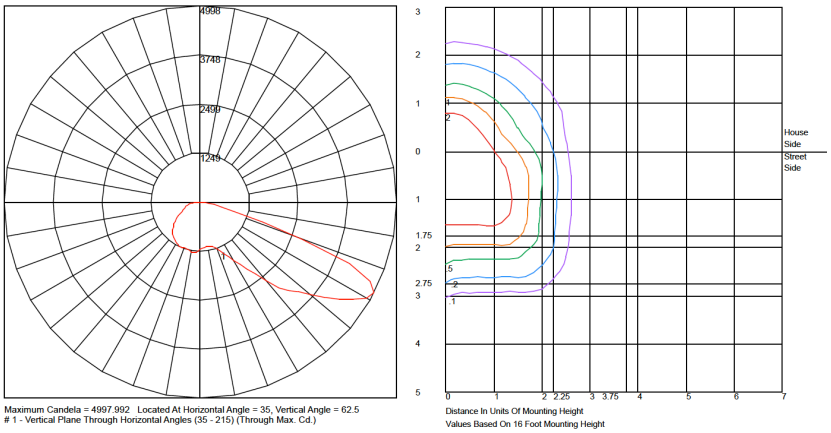


Distance In Units Of Mounting Height
Values Based On 16 Foot Mounting Height

Photometry

R4 / 61W LED / 3000K CCT

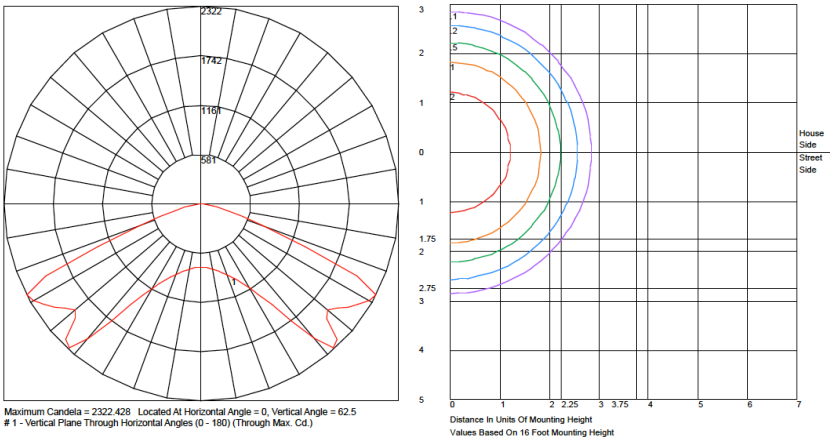
Catalog #: ACL-R4-X-5G2530-30-XX-UNV
Report #: 13212221.17
Delivered Lumens: 7435
Efficacy: 122
IES classification: Type III
Maximum candela of 4998 at 62.5° from vertical
BUG Rating: B2-U0-G1



Maximum Candela = 4997.992 Located At Horizontal Angle = 35, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)

R5R / 61W LED / 3000K CCT

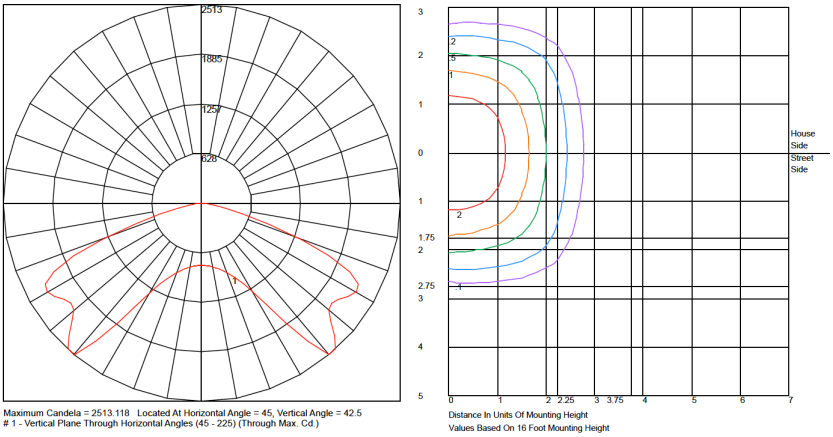
Catalog #: ACL-R5R-X-5G2530-30-XX-120
Report #: 13212221.17
Delivered Lumens: 7515
Efficacy: 123
IES classification: Type V
Maximum candela of 2322.4 at 652.° from vertical
BUG Rating: B3-U0-G1



Maximum Candela = 2322.428 Located At Horizontal Angle = 0, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

R5S / 61W LED / 3000K CCT

Catalog #: ACL-R5S-X-5G2530-30-XX-UNV
Report #: 13212221.17
Delivered Lumens: 7472
Efficacy: 122
IES classification: Type VS
Maximum candela of 2513.1 at 42.5° from vertical
BUG Rating: B2-U0-G1



Maximum Candela = 2513.118 Located At Horizontal Angle = 45, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)

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EXTERIOR FINISHES | MAIN BUILDING & STUDIO 2

REVISED 04.22.2021 03.22.2021

ARCO NATIONAL CONSTRUCTION + ARCO CONSTRUCTION THE DESIGN|BUILD PEOPLE

GMA ARCHITECTS

EXTERIOR FINISHES | MAIN BUILDING

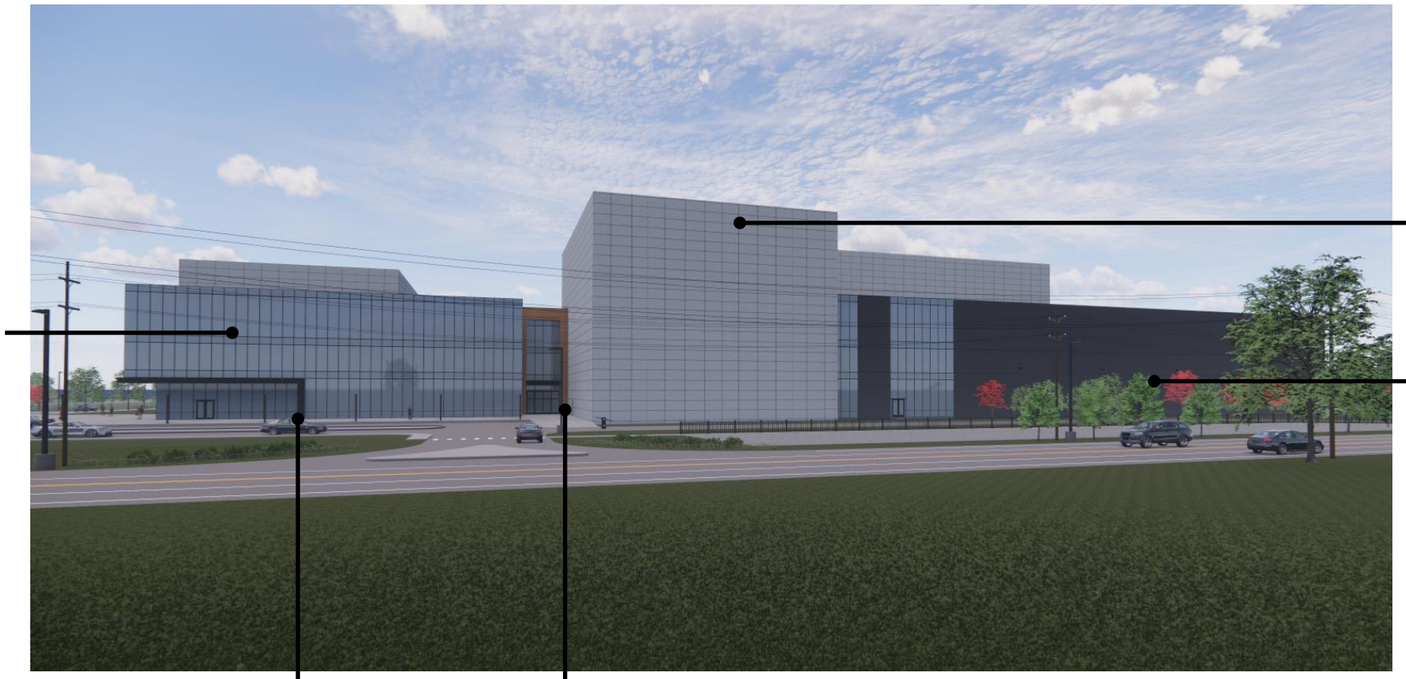
REVISED 04.22.2021 03.22.2021

ARCO NATIONAL CONSTRUCTION + ARCO CONSTRUCTION THE DESIGN|BUILD PEOPLE

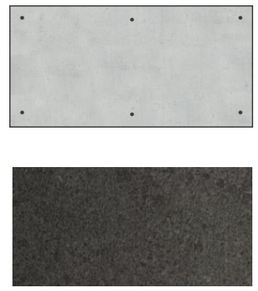
GMA ARCHITECTS

Main Building

LOW-E GLAZING WITH BLACK ANNODIZED ALUMINUM FRAMES



CONCRETE, WITH FORMLINER



CONCRETE, INTREGAL COLOR

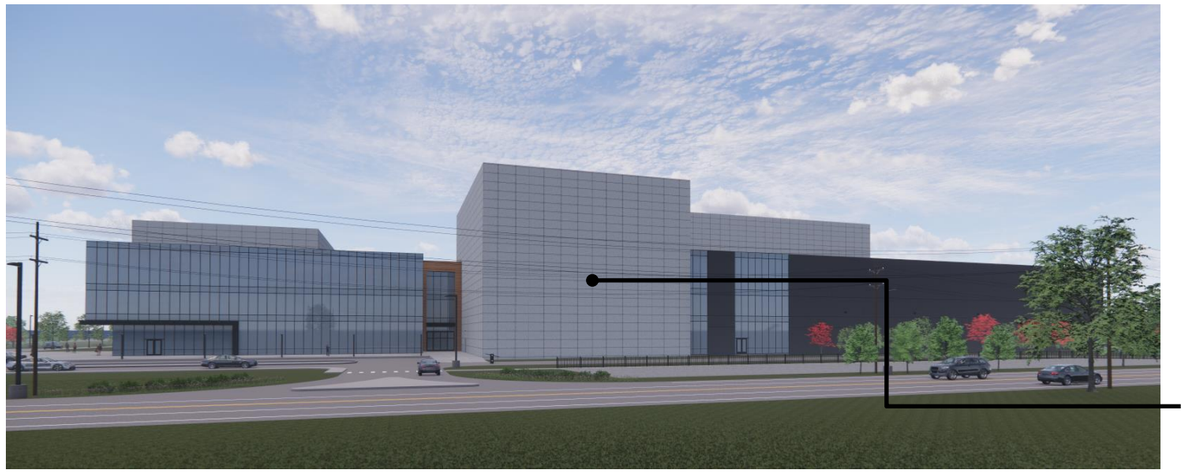
ALUMINUM COMPOSITE PANEL (CANOPY) BY ALUCOBOND, GLOSS **10**%, COLOR: DUSTY CHARCOAL

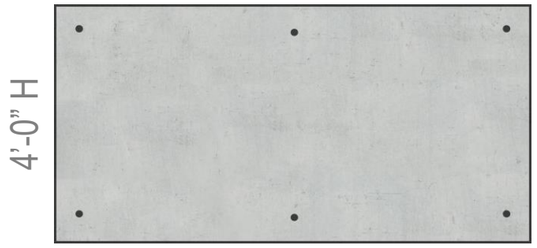
FIBER CEMENT PANEL BY NICHIHA, VintageWood, Color: Cedar

ARCO NATIONAL CONSTRUCTION + ARCO CONSTRUCTION THE DESIGN|BUILD PEOPLE

GMA ARCHITECTS

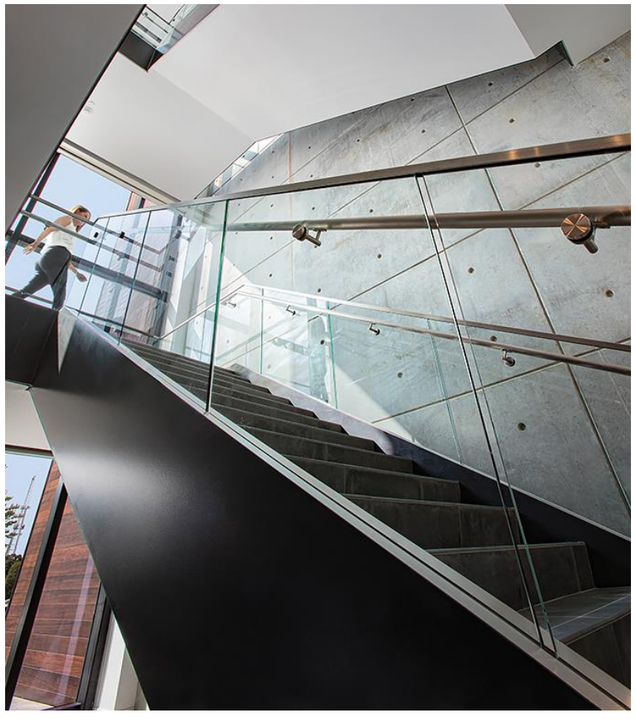
Main Building





FEATURE MATERIAL:

Concrete Tilt-up Wall Panels with Formliner



Install images:
Concrete with Formliner

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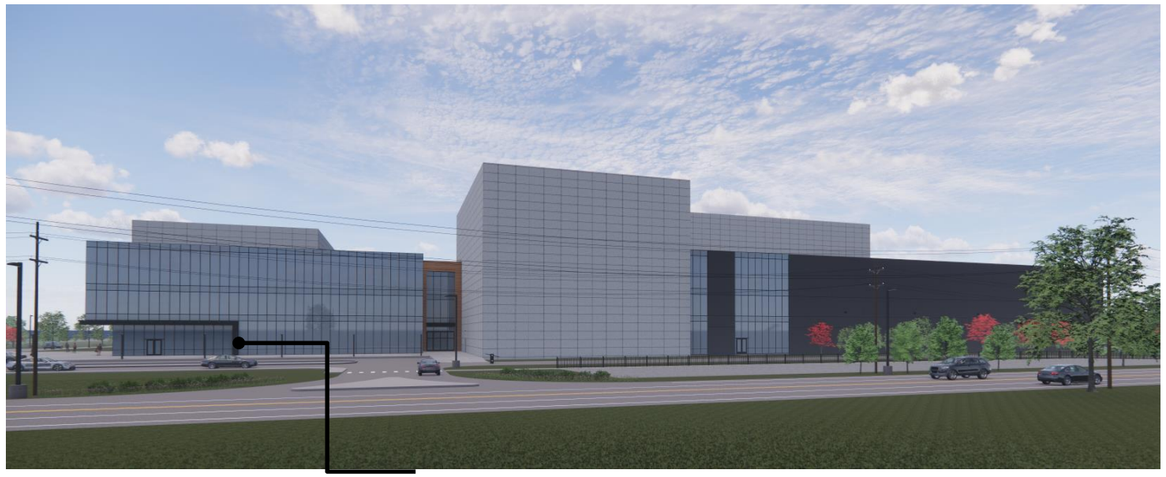
GMA ARCHITECTS

Main Building



FEATURE MATERIAL:

Aluminum Composite Panel (Canopy)
by Alucobond,
Gloss 10% (REVISED)
Color: Dusty Charcoal

ABOUT THE MATERIAL:

From Website:

In 1969, we invented Aluminum Composite Material (ACM), and we've been leading the world in design innovation ever since. As the original ACM used in the architectural and building cladding industries for over 50 years, ALUCOBOND gives shape to reliable, high quality and innovative designs.

It is distinguished in the market for its outstanding product attributes such as flatness, formability, durability and ease of fabrication, and is available in a broad palette of trend-forward colors and finishes. To help our clients build the future, we remain focused on inspiring the architectural community to create their legacy with the next generation of buildings.

ALUCOBOND is manufactured in Benton, Kentucky in a continuous lamination process and is available as a 4mm aluminum composite panel or as a flat .040" flat aluminum sheet, offered in a range of stocked sizes and finishes.

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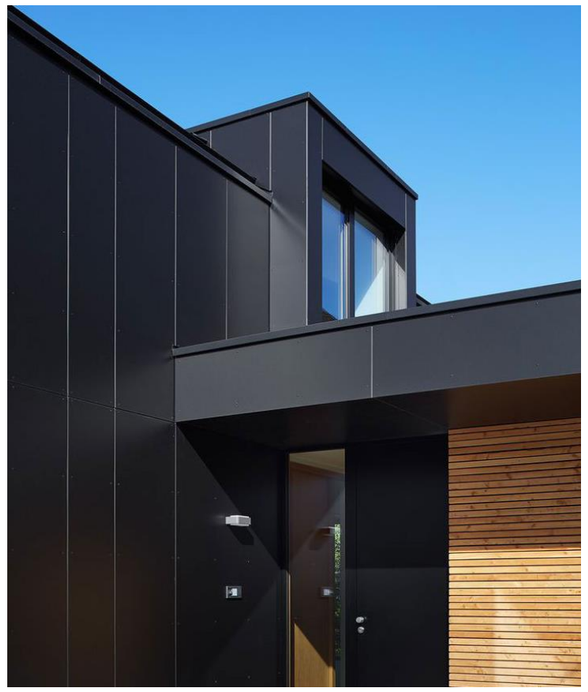
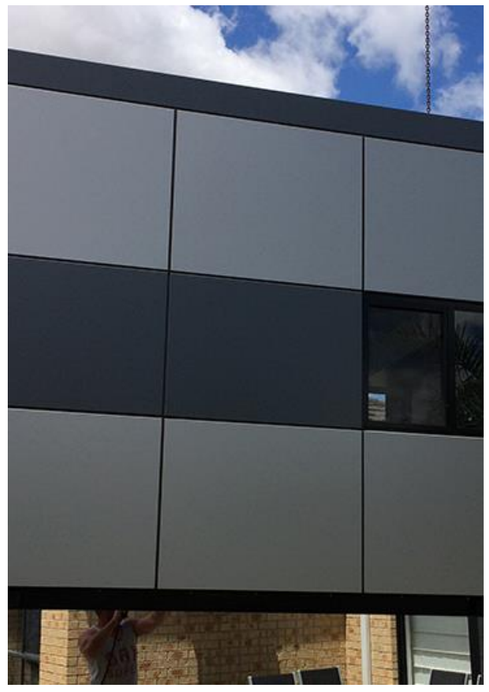
GMA ARCHITECTS

Main Building





Install images:
Alucobond, low gloss

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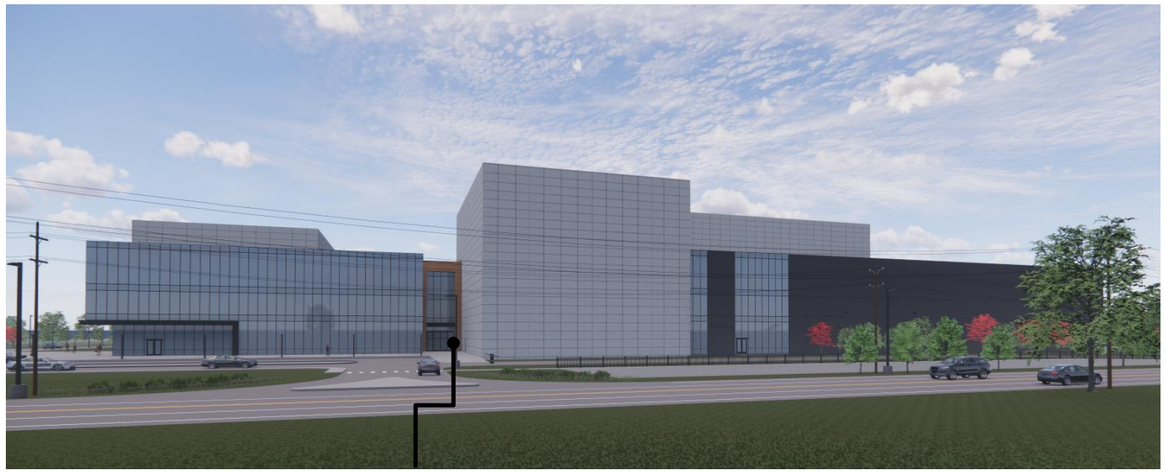
GMA ARCHITECTS

Main Building



FEATURE MATERIAL:

Nichiha Fiber Cement panels

Manufacturer:
Nichiha

Line:
Vintagewood

Color:
Cedar

Website:
https://www.nichiha.com/product/vintagewood

ABOUT THE MATERIAL:

From Website:

Nichiha excels at high design and high performance in any climate. Cement board siding (1/4"-5/16"/6mm-8mm) itself has a well documented history of better durability and proven performance than traditional materials for over 100 years. In 1974, Nichiha took that to the next level with a cladding system innovation that exceeds the demands of the brutally severe conditions inherent to the island coastal climates that could be tropical one day and arctic conditions the next. Think hurricane season in Florida + Alaska in winter, all on the same island and possibly even the same day.

Like Nichiha products, all fiber cement board is naturally resistant to mildew, pests, rot and the effects of a salt water environment. The unique dry manufacturing process by which the 1/2" Premium Planks and 5/8"+ Architectural Wall Panels results in a very flat product that are highly impact resistant and won't warp, bow or buckle even in the wildest temperature swings.

Our warranties vary based on product and start at 15 years. The best way to make your exterior look better longer is to keep debris away and wash it (not pressure wash!) regularly.

ARCO NATIONAL CONSTRUCTION + ARCO CONSTRUCTION THE DESIGN|BUILD PEOPLE

GMA ARCHITECTS

Main Building

Install images:
Nichiha: Vintagewood, Cedar

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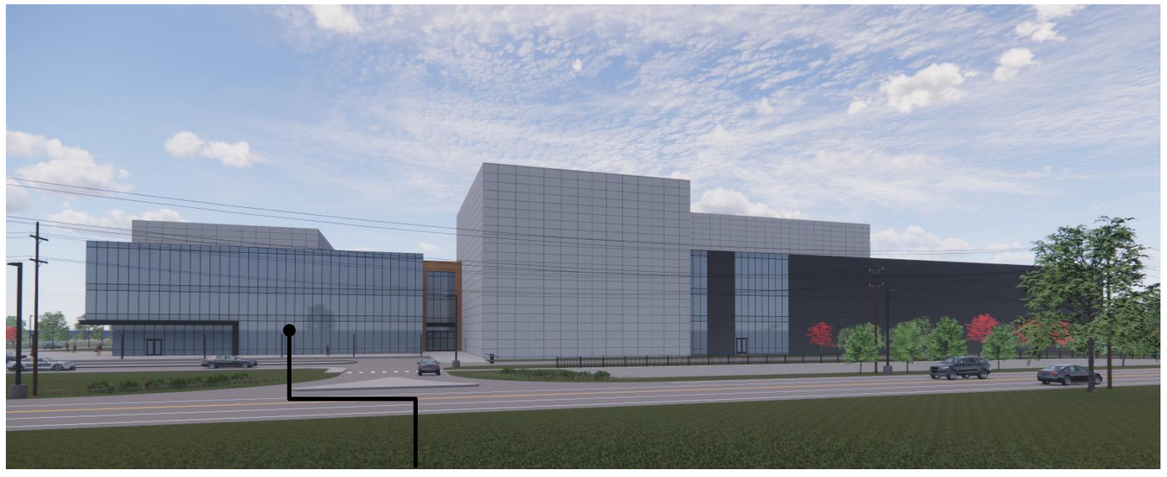
GMA ARCHITECTS

Main Building



FEATURE MATERIAL:

HIGH PREFORMANCE, LOW-E,
INSULATED GLAZING

ABOUT THE MATERIAL:

Color:
Glazing with light blue-grey exterior appearance

Selection #1:
VRE19-46
Manufacturer: Viracon Glass

Alternate:
Sunguard SNR 43 clear
Manufacturer: Guardian Glass

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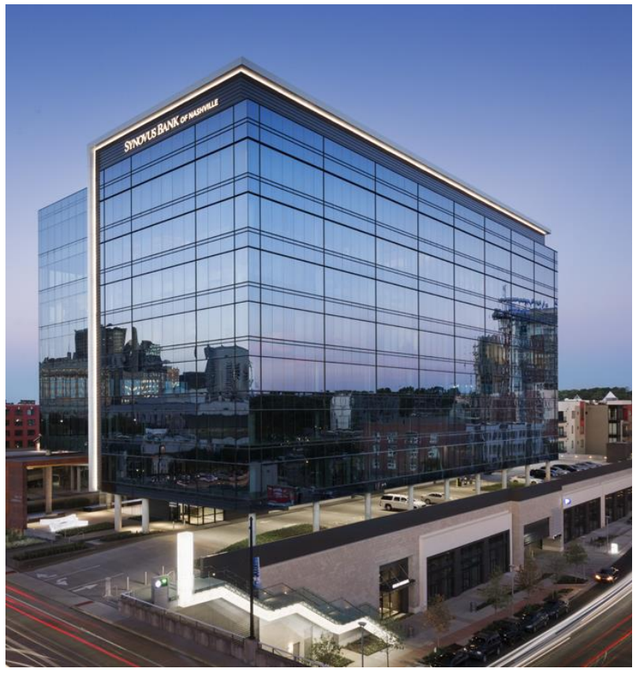
GMA ARCHITECTS



Install images:
Viracon VRE19-46

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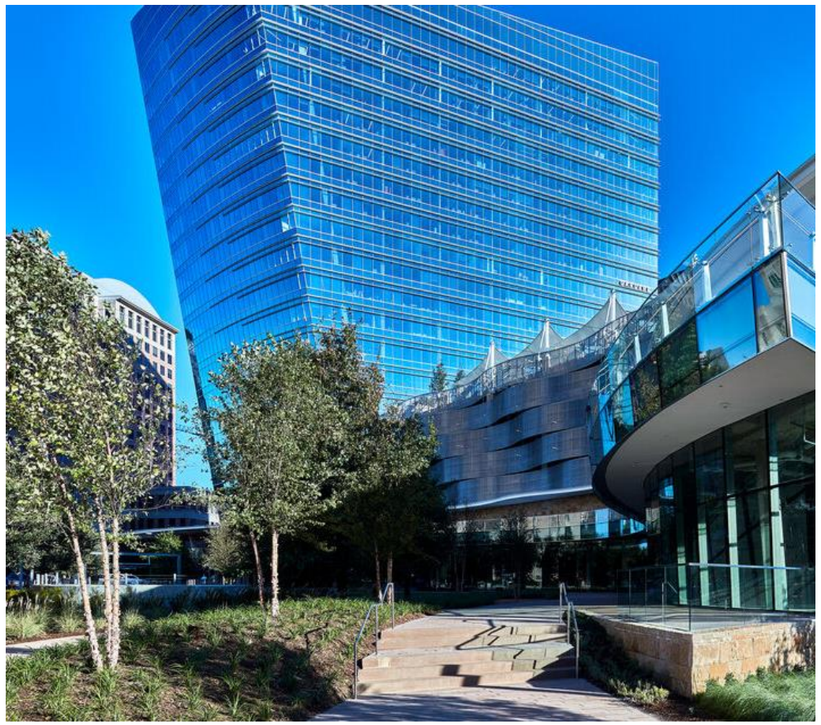
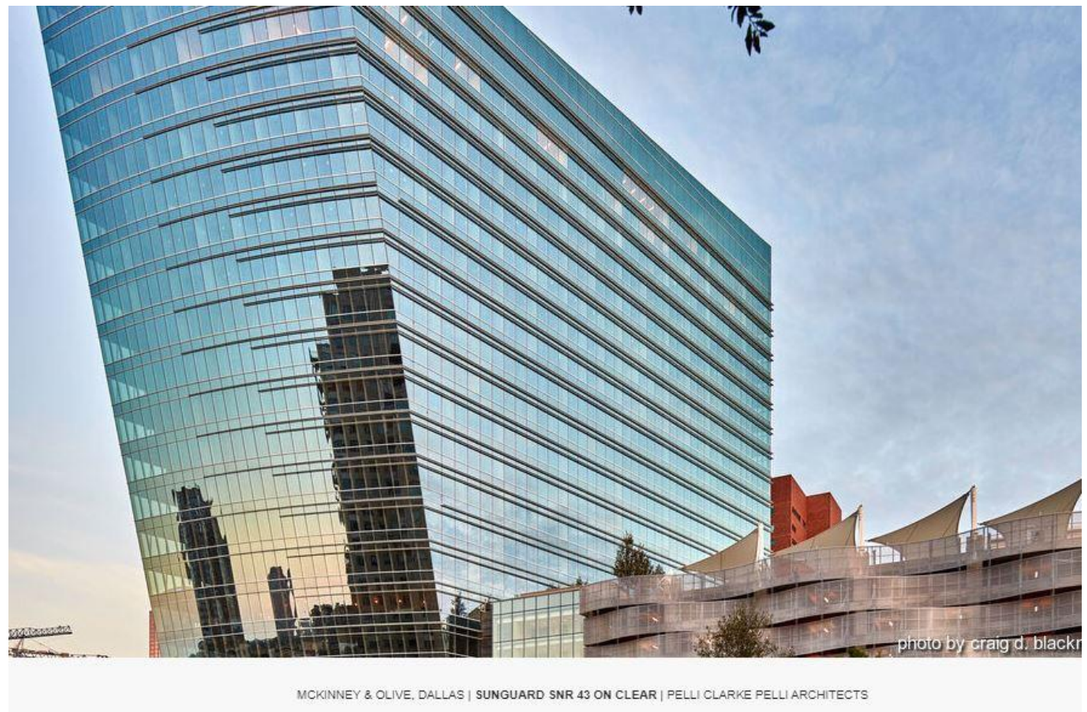
GMA ARCHITECTS





MCKINNEY & OLIVE, DALLAS | **SUNGUARD SNR 43 ON CLEAR** | PELLI CLARKE PELLI ARCHITECTS

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Install images:
ALT: Guardian Sunguard SNR 43 clear

GMA ARCHITECTS

EXTERIOR FINISHES | STUDIO 2

REVISED 04.22.2021 03.22.2021

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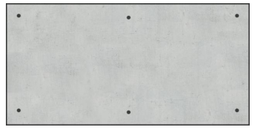
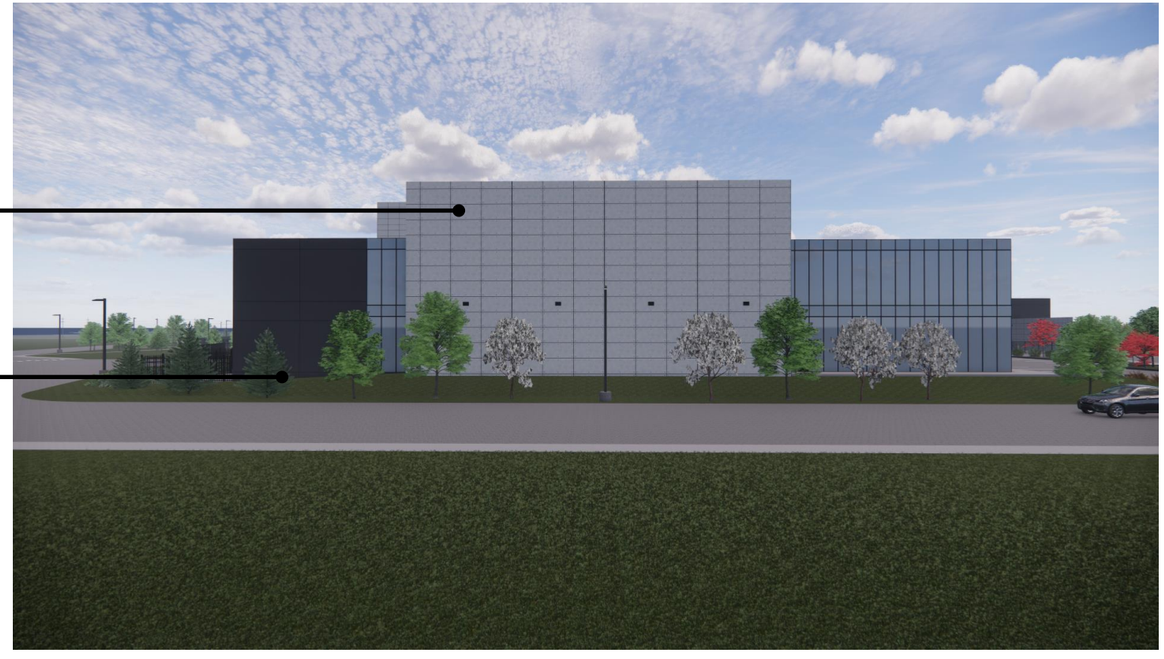
GMA ARCHITECTS

Studio 2



CONCRETE WITH FORMLINER

CONCRETE, INTREGAL COLOR



LOW-E GLAZING WITH BLACK ANNODIZED ALUMINUM FRAMES

FIBER CEMENT PANEL BY NICHIHA, MIRAIA HIGH GLOSS PANEL, COLOR: ONYX

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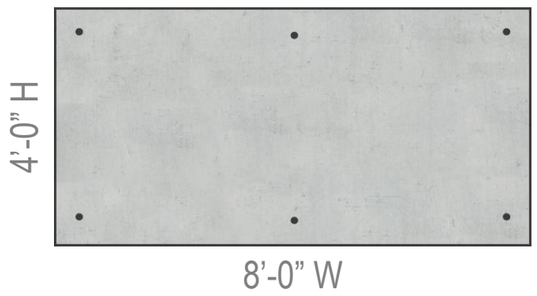
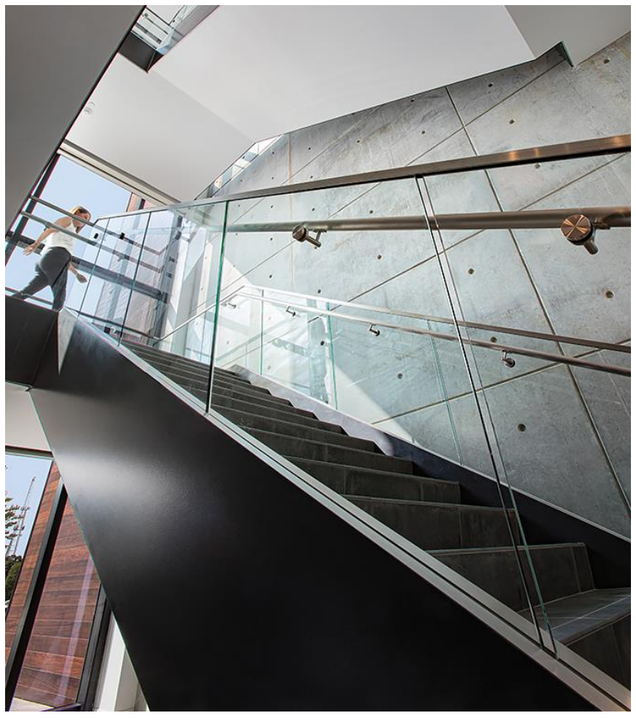
GMA ARCHITECTS

Studio 2



FEATURE MATERIAL:

Concrete Tilt-up Wall Panels with Formliner



Install images:
Concrete with Formliner

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GMA ARCHITECTS

Studio 2

FEATURE MATERIAL:

Nichiha Fiber Cement panels

Manufacturer:
Nichiha

Line:
MIRAIA Designer Series
Reflective, High-Gloss Finish

Color:
Onyx

Website:
https://www.nichiha.com/product/miraia

ABOUT THE MATERIAL:

From Website:

Nichiha excels at high design and high performance in any climate. Cement board siding (1/4"-5/16"/6mm-8mm) itself has a well documented history of better durability and proven performance than traditional materials for over 100 years. In 1974, Nichiha took that to the next level with a cladding system innovation that exceeds the demands of the brutally severe conditions inherent to the island coastal climates that could be tropical one day and arctic conditions the next. Think hurricane season in Florida + Alaska in winter, all on the same island and possibly even the same day.

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GMA ARCHITECTS

Studio 2

Install images:
Nichiha: ONYX

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THE DESIGN|BUILD PEOPLE

GMA ARCHITECTS

Studio 2

ARCO NATIONAL CONSTRUCTION + ARCO CONSTRUCTION THE DESIGN|BUILD PEOPLE

Install images:
Nichiha: ONYX

GMA ARCHITECTS

Studio 2

FEATURE MATERIAL:

HIGH PREFORMANCE, LOW-E, INSULATED GLAZING

ABOUT THE MATERIAL:

Color:
Glazing with light blue-grey exterior appearance

Selection #1:
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Manufacturer: Viracon Glass

Alternate:
Sunguard SNR 43 clear
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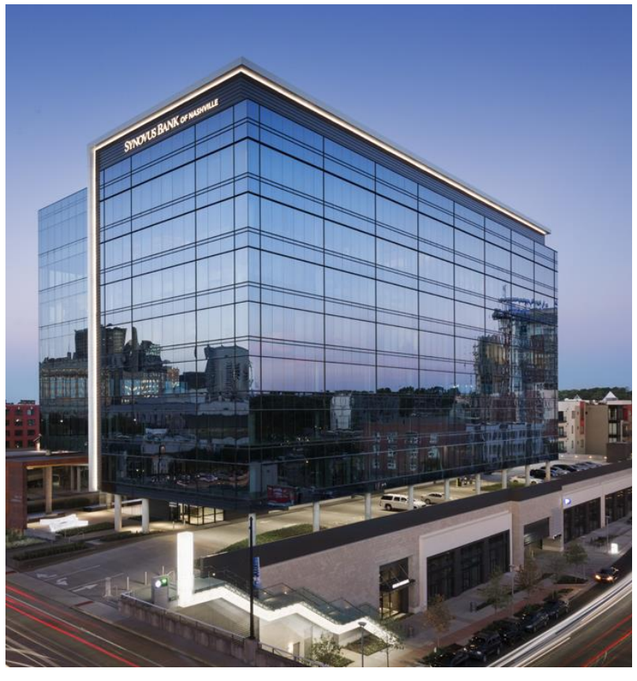
GMA ARCHITECTS



Install images:
Viracon VRE19-46

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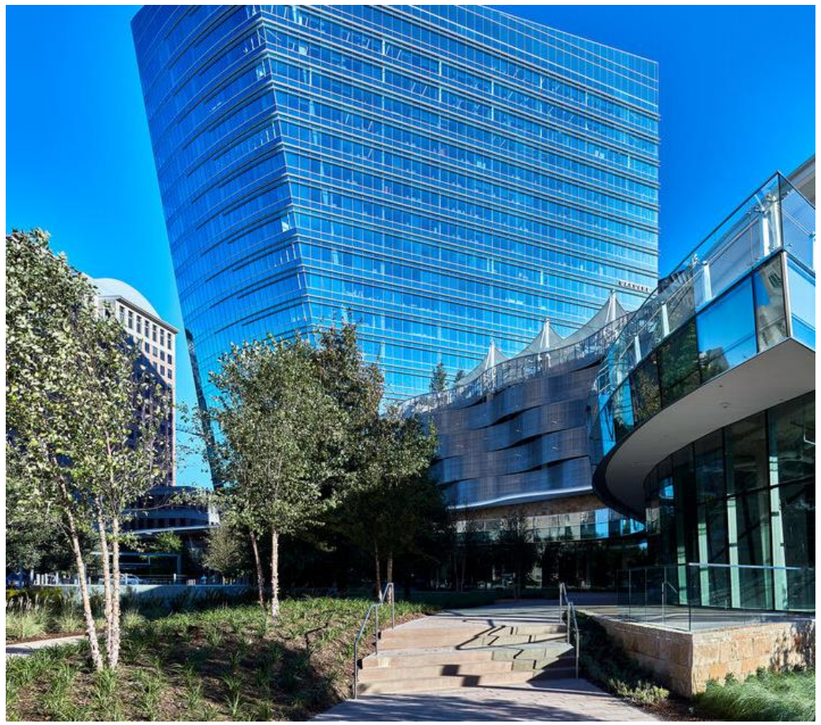
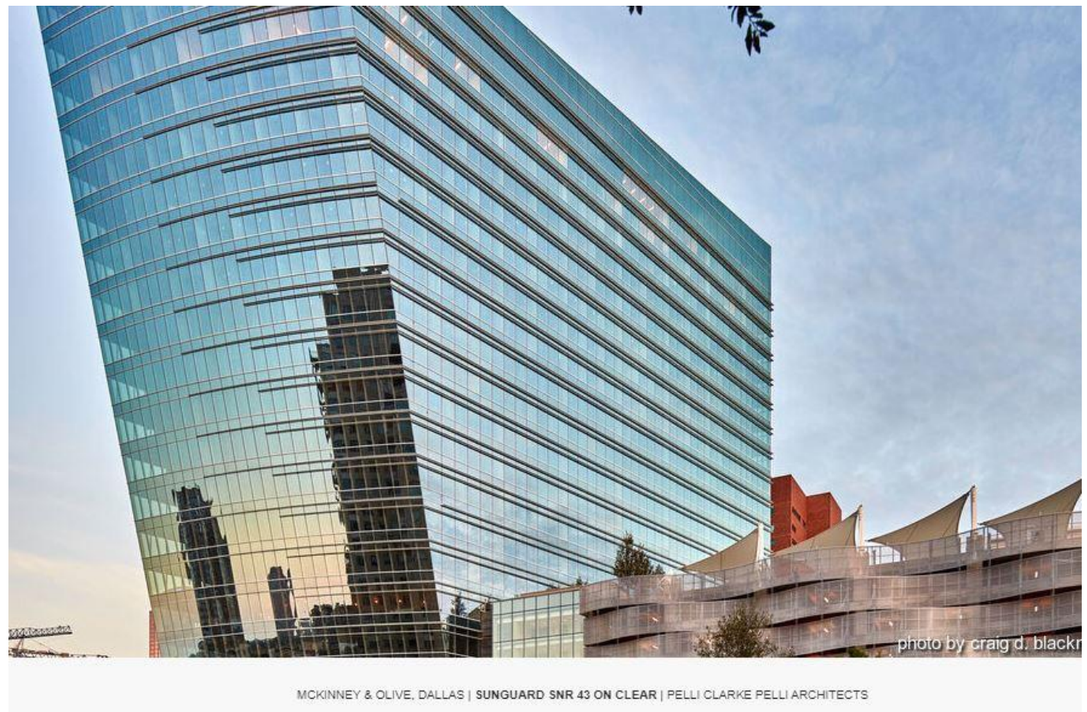
GMA ARCHITECTS





MCKINNEY & OLIVE, DALLAS | **SUNGUARD SNR 43 ON CLEAR** | PELLI CLARKE PELLI ARCHITECTS

ARCO NATIONAL CONSTRUCTION + ARCO CONSTRUCTION THE DESIGN|BUILD PEOPLE

Install images:
ALT: Guardian Sunguard SNR 43 clear

GMA ARCHITECTS

Thank You!

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THE DESIGN|BUILD PEOPLE

GMA Architects, Inc.
(314) 822-5191
Gma-architects.com

GMA ARCHITECTS

ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist

Date of First Comment Letter Received from the City of Chesterfield 3-15-2021

Project Title: Gateway Studios - Main Building **Location:** 900 Spirit of St. Louis Blvd

Developer: _____ **Architect**: GMA Architects **Engineer**: _____

PROJECT STATISTICS: 3s

Size of site (in acres): 23.848 acres **Total Square Footage:** 293,146 sf **Building Height:** 99'-6"

Proposed Usage: Mixed Use

Exterior Building Materials: Conc. tilt-up, Alum. composite pnl, Glass curtain wall, Pre-fin. mtl, Fiber-cement pnl

Roof Material & Design: White TPO membrane over polyiso rigid insulation

Screening Material & Design: Rooftop Screening not needed

Description of art or architecturally significant features (if any): TBD

ADDITIONAL PROJECT INFORMATION:

Checklist: Items to be provided in an 11" x 17" format

- ☒ **Color Site Plan with contours, site location map, and identification of adjacent uses.**
- ☒ **Color elevations for all building faces.**
- ☒ **Color rendering or model reflecting proposed topography.**
- ☒ **Photos reflecting all views of adjacent uses and sites.**
- ☐ n/a **Details of screening, retaining walls, etc.**
- ☒ **Section plans highlighting any building off-sets, etc. (as applicable)**
- ☒ **Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.**
- ☒ **Landscape Plan.**
- ☒ **Lighting cut sheets for any proposed building lighting fixtures. (as applicable)**
- ☒ **Large exterior material samples. (to be brought to the ARB meeting)**
- ☒ **Any other exhibits which would aid understanding of the design proposal. (as applicable)**
- ☒ **Pdf files of each document required.**

8.5 x 11 EXTERIOR FINISHES PACKET

ARCHITECTURAL REVIEW BOARD
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8.5 x 11 EXTERIOR FINISHES PACKET