URBAN DESIGN COMMISSION APPLICATION

UDC

City of Madison
Planning Division
Madison Municipal Building, Suite 017
215 Martin Luther King, Jr. Blvd.
P.O. Box 2985
Madison, WI 53701-2985
(608) 266-4635

Complete all sections of this application, including the desired meeting date and the action requested.

If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call the phone number above immediately.

FOR OFFICE USE ONLY:

Paid _____ Receipt # _____

Date received _____

Received by _____

Aldermanic District _____

Zoning District _____

Urban Design District _____

Submittal reviewed by _____

Legistar # 68727

1. Project Information

Address: 1802 Pankratz Street, Madison, WI 53704

Title: Isthmus Montessori Academy

2. Application Type (check all that apply) and Requested Date

UDC meeting date requested November 30, 2022

- ☐ New development
- ☐ Alteration to an existing or previously-approved development
- ☐ Informational
- ☐ Initial approval
- ☑ Final approval

3. Project Type

- ☑ Project in an Urban Design District
- ☐ Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
- ☐ Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
- ☐ Planned Development (PD)
  - ☐ General Development Plan (GDP)
  - ☐ Specific Implementation Plan (SIP)
- ☐ Planned Multi-Use Site or Residential Building Complex

Signage

- ☐ Comprehensive Design Review (CDR)
- ☐ Signage Variance (i.e. modification of signage height, area, and setback)
- ☐ Signage Exception

Other

- ☐ Please specify _____

4. Applicant, Agent, and Property Owner Information

Applicant name Brad Koning — Company Sketchworks Architecture, LLC.

Street address 2501 Parmenter St. Ste. 100B — City/State/Zip Middleton WI 53562

Telephone (608) 836-7570 — Email bkoning@sketchworksarch.com

Project contact person Brad Koning — Company Sketchworks Architecture, LLC.

Street address 2501 Parmenter St. Ste. 100B — City/State/Zip Middleton WI 53562

Telephone (608) 836-7570 — Email bkoning@sketchworksarch.com

Property owner (if not applicant) Isthmus Montessori Academy (Bill Walsh)

Street address 1802 Pankratz Street — City/State/Zip Madison, WI 53704

Telephone (608) 661-8200 — Email bill.walsh@isthmusmontessoriacademy.org

5. Required Submittal Materials

- ☑ **Application Form**
- ☑ **Letter of Intent**
  - If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required
  - For signage applications, a summary of how the proposed signage is consistent with the applicable CDR or Signage Variance review criteria is required.
- ☑ **Development Plans** (Refer to checklist on Page 4 for plan details)
- ☑ **Filing fee**
- ☑ **Electronic Submittal***
- ☑ **Notification to the District Alder**
  - Please provide an email to the District Alder notifying them that you are filing this UDC application. Please send this as early in the process as possible and provide a copy of that email with the submitted application.

Each submittal must include fourteen (14) 11" x 17" **collated** paper copies. Landscape and Lighting plans (if required) must be **full-sized and legible**. Please refrain from using plastic covers or spiral binding.

Both the paper copies and electronic copies must be submitted prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. A completed application form is required for each UDC appearance.

For projects also requiring Plan Commission approval, applicants must also have submitted an accepted application for Plan Commission consideration prior to obtaining any formal action (initial or final approval) from the UDC. All plans must be legible when reduced.

**Electronic copies of all items submitted in hard copy are required. Individual PDF files of each item submitted should be compiled on a CD or flash drive, or submitted via email to udcapplications@cityofmadison.com. The email must include the project address, project name, and applicant name. Electronic submittals via file hosting services (such as Dropbox.com) are not allowed. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.*

6. Applicant Declarations

1. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with #1 Kevin Furchow and #2 Kevin Furchow / Jessica Vaughn on #1 - 11/24/2021 and #2 - 02/18/2022. #3 - 08/30/2022 Jessica Vaughn / Jenny Kirchgatter

2. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Name of applicant Brad Koning Relationship to property Architect

Authorizing signature of property owner [signature] Date 3-11-22

7. Application Filing Fees

Fees are required to be paid with the first application for either initial or final approval of a project, unless the project is part of the combined application process involving the Urban Design Commission in conjunction with Plan Commission and/or Common Council consideration. Make checks payable to City Treasurer. Credit cards may be used for application fees of less than $1,000.

- No Fees are required - See attached email from City Staff at the end of this application -

Please consult the schedule below for the appropriate fee for your request:

- ☑ Urban Design Districts: $350 *(per §35.24(6) MGO).*
- ☐ Minor Alteration in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) : $150 *(per §33.24(6)(b) MGO)*
- ☐ Comprehensive Design Review: $500 *(per §31.041(3)(d)(1)(a) MGO)*
- ☐ Minor Alteration to a Comprehensive Sign Plan: $100 *(per §31.041(3)(d)(1)(c) MGO)*
- ☐ All other sign requests to the Urban Design Commission, including, but not limited to: appeals from the decisions of the Zoning Administrator, requests for signage variances (i.e. modifications of signage height, area, and setback), and additional sign code approvals: $300 *(per §31.041(3)(d)(2) MGO)*

A filing fee is not required for the following project applications if part of the combined application process involving both Urban Design Commission and Plan Commission:

- None of the following apply -

- — Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
- — Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
- — Planned Development (PD): General Development Plan (GDP) and/or Specific Implementation Plan (SIP)
- — Planned Multi-Use Site or Residential Building Complex

URBAN DESIGN COMMISSION APPROVAL PROCESS

UDC

Introduction

The City of Madison's Urban Design Commission (UDC) has been created to:

- Encourage and promote high quality in the design of new buildings, developments, remodeling, and additions so as to maintain and improve the established standards of property values within the City.
- Foster civic pride in the beauty and nobler assets of the City, and in all other ways possible assure a functionally efficient and visually attractive City in the future.

Types of Approvals

There are three types of requests considered by the UDC:

- Informational Presentation. Applicants may, at their discretion, request to make an Informational Presentation to the UDC prior to seeking any approvals to obtain early feedback and direction before undertaking detailed design. Applicants should provide details on the context of the site, design concept, site and building plans, and other relevant information to help the UDC understand the proposal and provide feedback. (Does not apply to CDR's or Signage Variance requests)
- Initial Approval. Applicants may, at their discretion, request initial approval of a proposal by presenting preliminary design information. As part of their review, the Commission will provide feedback on the design information that should be addressed at Final Approval stage.
- Final Approval. Applicants may request Final Approval of a proposal by presenting all final project details. Recommendations or concerns expressed by the UDC in the initial approval must be addressed at this time.

Presentations to the Commission

Primarily, the UDC is interested in the appearance and design quality of projects. Emphasis should be given to the site plan, landscape plan, lighting plan, building elevations, exterior building materials, color scheme, and graphics.

When presenting projects to the UDC, applicants must fill out a registration slip provided in the meeting room and present it to the Secretary. Presentations should generally be limited to 5 minutes or as extended by motion by consent of the Commission. The Commission will withhold questions until the end of the presentation.

Applicants are encouraged to consider the use of various graphic presentation material including a locator map, photographs, renderings/model, scale drawings of the proposal in context with adjacent buildings/uses/signs, etc., as may be deemed appropriate to describe the project and its surroundings. Graphics should be mounted on rigid boards so that they may be easily displayed. **Applicants/presenters are responsible for all presentation materials, AV equipment and easels**.

URBAN DESIGN DEVELOPMENT PLANS CHECKLIST

UDC

The items listed below are minimal application requirements for the type of approval indicated. Please note that the UDC and/or staff may require additional information in order to have a complete understanding of the project.

1. Informational Presentation

- ☑ Locator Map
- ☑ Letter of Intent (If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- ☑ Contextual site information, including photographs and layout of adjacent buildings/structures
- ☑ Site Plan
- ☑ Two-dimensional (2D) images of proposed buildings or structures.

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

Requirements for All Plan Sheets

1. Title block
2. Sheet number
3. North arrow
4. Scale, both written and graphic
5. Date
6. Fully dimensioned plans, scaled at 1"= 40' or larger

*** All plans must be legible, including the full-sized landscape and lighting plans (if required)*

2. Initial Approval

- ☑ Locator Map
- ☑ Letter of Intent (If the project is within a Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- ☑ Contextual site information, including photographs and layout of adjacent buildings/structures
- ☑ Site Plan showing location of existing and proposed buildings, walks, drives, bike lanes, bike parking, and existing trees over 18" diameter
- ☑ Landscape Plan and Plant List (*must be legible*)
- ☑ Building Elevations in both black & white and color for all building sides (include material callouts)
- ☐ ~~PD text and Letter of Intent (if applicable)~~

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

3. Final Approval

All the requirements of the Initial Approval (see above), **plus**:

- ☑ Grading Plan
- ☐ ~~Proposed Signage (if applicable)~~
- ☑ Lighting Plan, including fixture cut sheets and photometrics plan (*must be legible*)
- ☑ Utility/HVAC equipment location and screening details (with a rooftop plan if roof-mounted)
- ☐ ~~PD text and Letter of Intent (if applicable)~~
- ☐ Samples ~~of the exterior building~~ materials (presented at the UDC meeting)

Virtual meeting / electronic submittal so no samples are included with the submittal. We have samples that can be viewed upon request.

4. Comprehensive Design Review (CDR) and Variance Requests (***Signage applications only***)

- ☐ Locator Map
- ☐ Letter of Intent (a summary of how the proposed signage is consistent with the CDR or Signage Variance criteria is required)
- ☐ Contextual site information, including photographs of existing signage both on site and within proximity to the project site
- ☐ Site Plan showing the location of existing signage and proposed signage, dimensioned signage setbacks, sidewalks, driveways, and right-of-ways
- ☐ Proposed signage graphics (fully dimensioned, scaled drawings, including materials and colors, and night view)
- ☐ Perspective renderings (emphasis on pedestrian/automobile scale viewsheds)
- ☐ Illustration of the proposed signage that meets Ch. 31, MGO compared to what is being requested.
- ☐ Graphic of the proposed signage as it relates to what the Ch. 31, MGO would permit

Sketchworks architecture llc

October 31, 2022

City of Madison
Department of Planning
215 Martin Luther King Jr. Blvd.
Madison WI 53703

RE: Urban Design Commission Application
Final Approval Request
1802 Pankratz St. – Isthmus Montessori Academy

Dear Commission members:

On behalf of Isthmus Montessori Academy (IMA), Sketchworks Architecture, LLC is submitting this letter of intent and application for the school expansion and renovation located at 1802 / 1902 Pankratz St. The school is located within Urban Design District #4, Aldermanic District No. 12 (Alder Syed Abbas), and subject to the Airport Commission review.

In 2018, Sketchworks Architecture worked with IMA to reimagine the commercial office building where they currently reside at 1802 Pankratz St. At the time, our focus was on the renovation of the building's interior functions, converting open office space into a classroom environment that promotes the Montessori methodology. In concept we also developed a masterplan that included the expansion of the existing building for Junior and High School students. This masterplan was a U-shaped expansion with communal center courtyard.

The proposed project features many of those initial concepts developed back in 2018. Previous UDC presentations included the Informational on Dec. 15, 2021 and the project obtained Initial Approval from UDC on April 13, 2022. Plan Commission approved the project on May 9, 2022. Sketchworks has re-engaged the project at the request of Isthmus Montessori Academy following the Initial UDC approval and requests final approval of the project in this application.

Proposal Summary:
The current school is located on 2.5 acres and has purchased the adjoining property at 1902 Pankratz St. to the north for a total of approximately 4.9 acres. The building expansion project will consist of a 2-story addition, a gymnasium, and a performance theatre for a total expansion of 44,500 sf. (27,500 sf main level and 17,000 sf upper level). The expansion will include administrative offices, academic learning spaces, communal engagement areas including enlarged 'Maker and Art Spaces', junior high and high school classrooms, along with designed outdoor space.

The parking lot will be upgraded to improve traffic flow and child safety, having designed drop-off areas for both vehicles and busses. A new access point from Pankratz St. is proposed to alleviate congestion and provide one-way traffic flow for safety.

We have taken the design submitted in prior UDC reviews, carefully considered the comments, and have enhanced the design as presented herein. Development in the transition between existing and proposed has been further defined by utilizing the same smooth-faced burnished masonry to create a single building mass, reintroduces the champagne storefront system with ACM panels along Pankratz St. which transitions into the gymnasium where more playful windows allow controlled natural light into the space – activating the street frontage.

The theatre design was a focus of our efforts, with a majority of previous UDC comments identifying the lack of presence from the Pankratz St. entrance and orientation of the entrance. Taking design ques from the existing building and proposed school entrance, we felt compelled to introduce the curvature back into the theatre design with the aluminum curtain wall system matching the existing building, and a second curved pre-cast wall panel having the same punched window treatment of the gymnasium. These overlapping curved walls create the entrance into the theatre, having the 2-story glazed atrium facing into the schools courtyard to the south – preceding into the theatre to the north.

Landscaping design has evolved as well – incorporating masonry piers along the east side of the courtyard at the drop-off points to provide variation and allow site furniture such as benches, bike parking, and designated waiting areas along the sidewalk. Additional landscape has been added to the north side of the addition per UDC comment.

Zoning District:

The property is currently zoned (SE) Suburban Employment (Conditional Use) Urban Design - 4

Project Schedule:

The project construction schedule will be as follows:

UDC Submittal - Final Application	Oct. 31, 2022
UDC Meeting – Final Approval	Nov.30, 2022
Plan Review/Permit Submittal:	May 29, 2023
Start Construction	June 20, 2023
Complete Construction	June 1, 2023 (tentative)

Project Team:,
The key individuals and firms involved in this planning and design process include:

Tenant/ Building Owner:
Isthmus Montessori Academy
1802 Pankratz St.
Madison WI 53704
Contact: Melissa Droessler
(608) 661-8200

Architect:
Sketchworks Architecture, LLC
2501 Parmenter St. 100B
Middleton, WI 53562
Contact: Brad Koning
(608) 836-7570

Civil Engineer / Landscape Design:
MSA
1702 Pankratz St.
Madison WI 53704

Structural Engineer:
MP-Squared Structural Engineers
583 D'onofrio Dr UNIT 201
Madison WI 53719

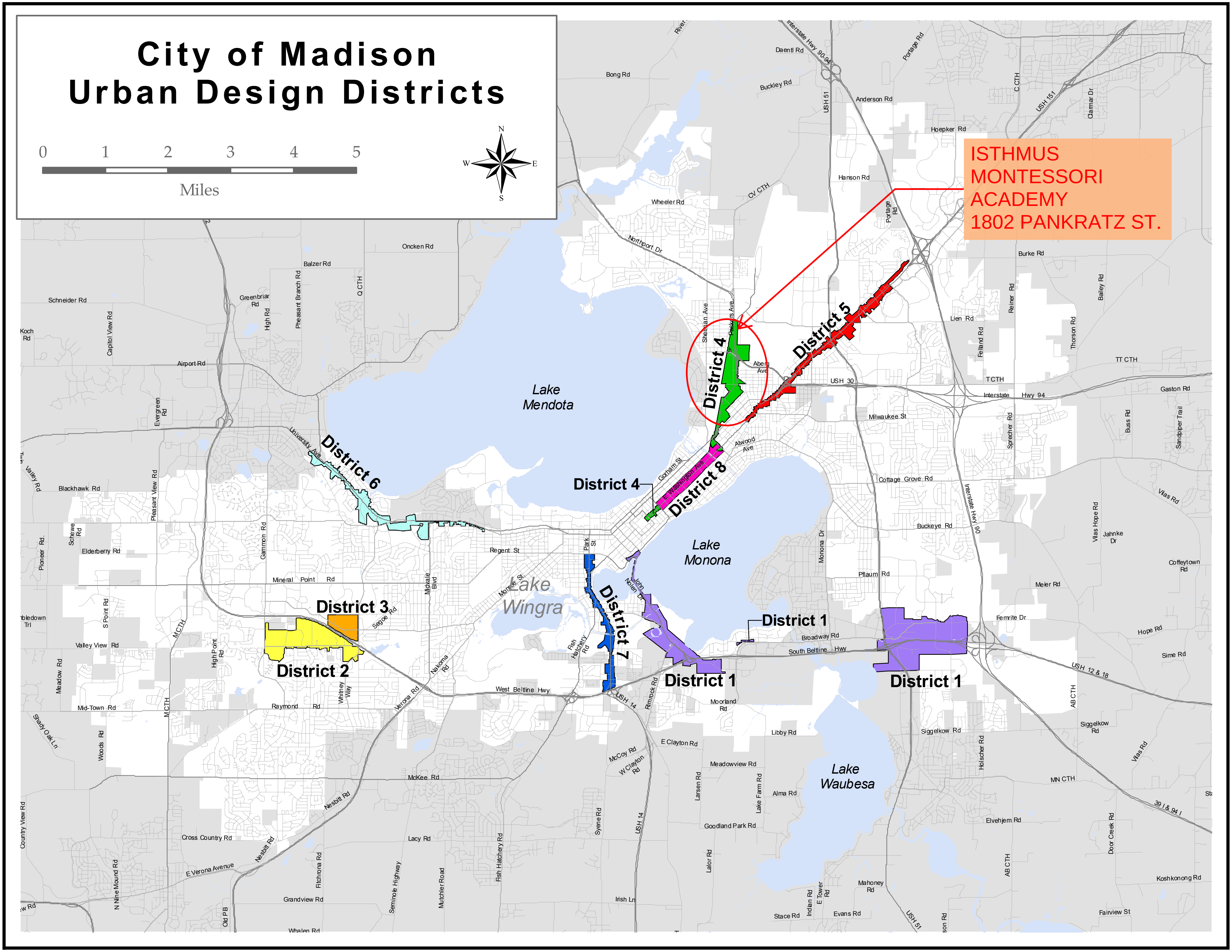
MEP Engineers:
JDR Engineering
5525 Nobel Dr.
Fitchburg WI 53711

Construction Manager:
Harmony Construction
906 Jonathan Dr.
Madison WI 53713

Please feel free to contact us with any questions you may have regarding this request.

Respectfully,

Brad Koning
Sketchworks Architecture, LLC



City of Madison Department of Planning & Community & Economic Development, Planning Unit, January 2011, slm

CITY OF MADISON
LANDSCAPE WORKSHEET

Section 28.142 Madison General Ordinance

Project Location / Address Isthmus Montessori Academy 1802 Pankratz St, Madison

Name of Project Isthmus Montessori Academy Phase 2

Owner / Contact _____

Contact Phone _____ Contact Email _____

**** Landscape plans for zoning lots greater than ten thousand (10,000) square feet in size MUST be prepared by a registered landscape architect. ****

Applicability

The following standards apply to all exterior construction and development activity, including the expansion of existing buildings, structures and parking lots, except the construction of detached single-family and two-family dwellings and their accessory structures. The entire development site must be brought up to compliance with this section unless **all** of the following conditions apply, in which case only the affected areas need to be brought up to compliance:

(a) The area of site disturbance is less than ten percent (10%) of the entire development site during any ten-(10) year period.

(b) Gross floor area is only increased by ten percent (10%) during any ten-(10) year period.

(c) No demolition of a principal building is involved.

(d) Any displaced landscaping elements must be replaced on the site and shown on a revised landscaping plan.

Landscape Calculations and Distribution

Required landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as that area within a single contiguous boundary which is made up of structures, parking, driveways and docking/loading facilities, but excluding the area of any building footprint at grade, land designated for open space uses such as athletic fields, and undeveloped land area on the same zoning lot. There are three methods for calculating landscape points depending on the size of the lot and Zoning District.

(a) For all lots except those described in (b) and (c) below, five (5) landscape points shall be provided for each three hundred (300) square feet of developed area.

Total square footage of developed area 94,530 SF

Total landscape points required 1580

(b) **For lots larger than five (5) acres**, points shall be provided at five (5) points per three hundred (300) square feet for the first five (5) developed acres, and one (1) point per one hundred (100) square feet for all additional acres.

Total square footage of developed area _____

Five (5) acres = 217,800 square feet

First five (5) developed acres = 3,630 points

Remainder of developed area _____

Total landscape points required _____

(c) **For the Industrial – Limited (IL) and Industrial – General (IG) districts**, one (1) point shall be provided per one hundred (100) square feet of developed area.

Total square footage of developed area _____

Total landscape points required _____

Tabulation of Points and Credits

Use the table to indicate the quantity and points for all existing and proposed landscape elements.

Plant Type/ Element	Minimum Size at Installation	Points	Credits/ Existing Landscaping		New/ Proposed Landscaping	
			Quantity	Points Achieved	Quantity	Points Achieved
Overstory deciduous tree	2½ inch caliper measured diameter at breast height (dbh)	35	21	735	20	700
Tall evergreen tree (i.e. pine, spruce)	5-6 feet tall	35			1	35
Ornamental tree	1 1/2 inch caliper	15			13	195
Upright evergreen shrub (i.e. arborvitae)	3-4 feet tall	10			32	320
Shrub, deciduous	#3 gallon container size, Min. 12"-24"	3			137	411
Shrub, evergreen	#3 gallon container size, Min. 12"-24"	4			2	8
Ornamental grasses/ perennials	#1 gallon container size, Min. 8"-18"	2			195	390
Ornamental/ decorative fencing or wall	n/a	4 per 10 lineal ft.				
Existing significant specimen tree	Minimum size: 2 ½ inch caliper dbh. *Trees must be within developed area and cannot comprise more than 30% of total required points.	14 per caliper inch dbh. Maximum points per tree: 200				
Landscape furniture for public seating and/or transit connections	* Furniture must be within developed area, publically accessible, and cannot comprise more than 5% of total required points.	5 points per "seat"				
Sub Totals				735		2059

Total Number of Points Provided 2794

* As determined by ANSI, ANLA- American standards for nursery stock. For each size, minimum plant sizes shall conform to the specifications as stated in the current American Standard for Nursery Stock.

The Commercial & Industrial Collection

Beauty.

Durability.

Functionality.

Security.

ALUMI-GUARD®

Protecting what you love

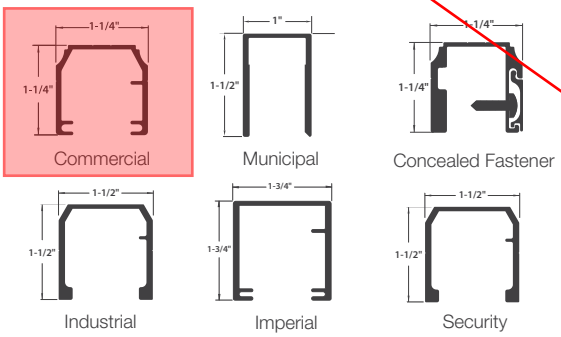
ASCOT
3 RAIL

BLACK

5 Quick Steps to Design Your Fence

Grade Size	#1
Style of Fence	#2
Color Choice	#3
Post Size	#4
Fence Options	#5

Grade Choices



Steps #1 & #4 The Commercial & Industrial Grades

The Commercial & Industrial Collection by Alumi-Guard offers six alternatives for you to consider regarding the individual rail and picket dimensions of your fencing system. Choose the option that meets your budget and priorities.

Commercial — The Alumi-Guard Commercial, Concealed Fastener and Municipal panels have an elegant appearance with superior performance, providing protection for any outdoor space.

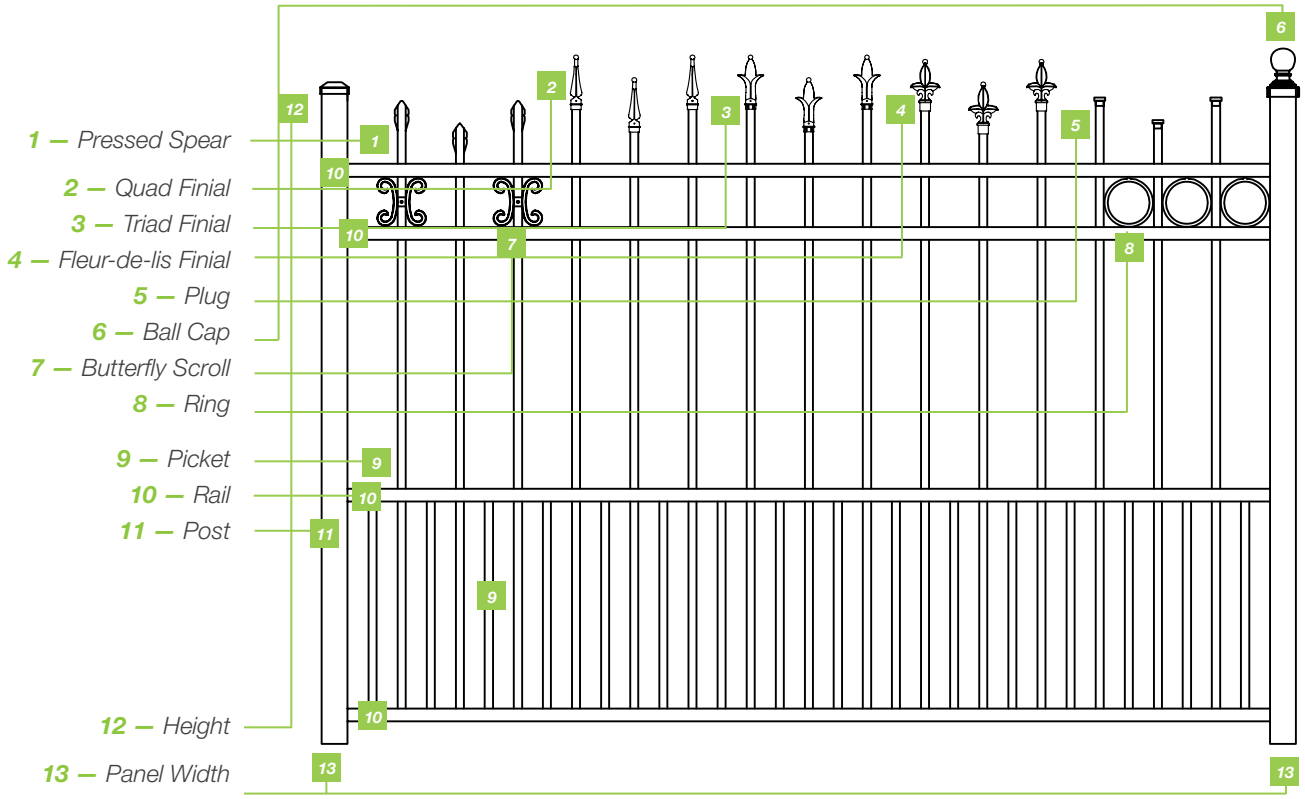
- Commercial and Concealed — 1¼" x 1¼" rail
- ~~Municipal — 1½" x 1" rail~~
- 3/4" picket and ~~2"~~ or 2½" posts
- Commercial 6' wide sections
- Municipal and Concealed Fastener 6' and 8' wide sections

Industrial — The Alumi-Guard Industrial, Imperial and Security grade panels provide additional strength and protection. Imperial rails are available with the security grade pickets when additional strength is needed.

- Industrial and Security 1½" x 1½" rail
- Imperial 1¾" x 1¾" rail
- 1" x 1" picket and 2½" posts or 3" posts
- 6' and 8' wide sections with Industrial, Imperial and Security grades

NEED GATES. NEED TO VERIFY HARDWARE W/ OWNER

Step #5 Fence Options



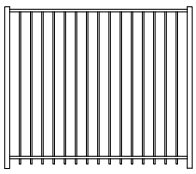
#2 — #3 Fencing Collection Styles & Colors

Black | Matte Black | Florida Bronze | Matte Bronze | Light Bronze | White | Gray

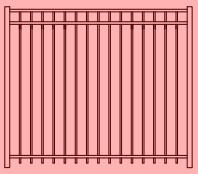
Colors may vary in catalog. Please refer to color chips for actual color.

Flat Top Ascot • Canterbury • Fairmount

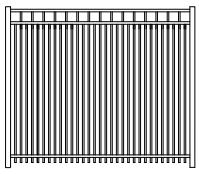
Ascot 2 Rail



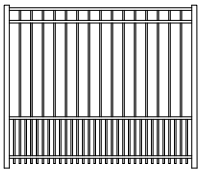
Ascot 3 Rail



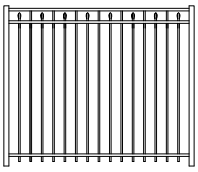
Ascot Royale



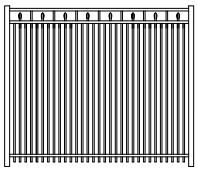
Ascot Puppy Picket



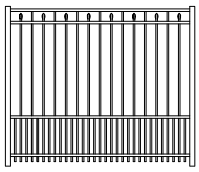
Canterbury



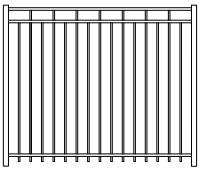
Canterbury Royale



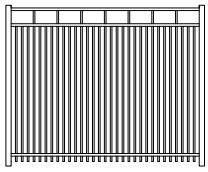
Canterbury Puppy Picket



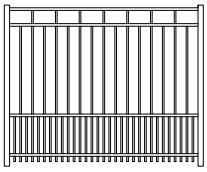
Fairmount



Fairmount Royale

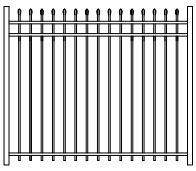


Fairmount Puppy Picket

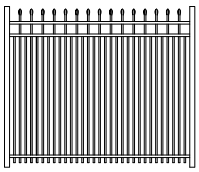


Pressed Spear Belmont • Hamilton

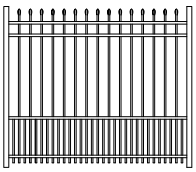
Belmont



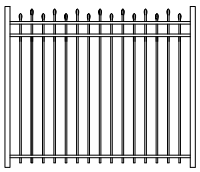
Belmont Royale



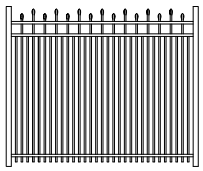
Belmont Puppy Picket



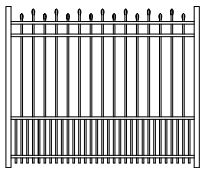
Hamilton



Hamilton Royale

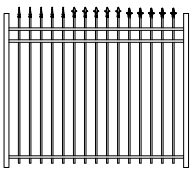


Hamilton Puppy Picket



Premier Victoria • Newcastle I • Newcastle II

Victoria



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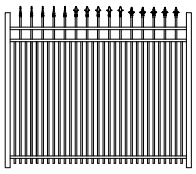

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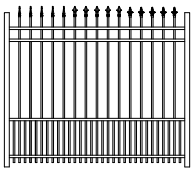
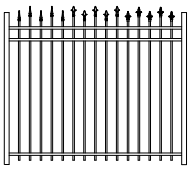
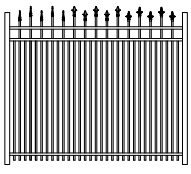


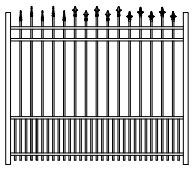
Victoria Staggered



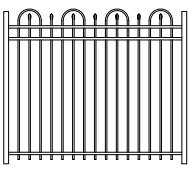
Victoria Staggered Royale



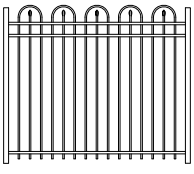
Victoria Staggered Puppy Picket



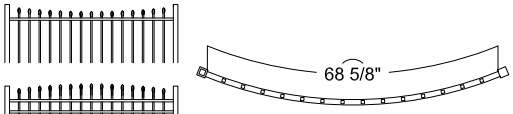
Newcastle I



Newcastle II



*Newcastle I and Newcastle II are available in Residential/Squire Grade Only



Concave / Convex
2" at Center

6' Radius Panel
Two make 90°
Available in all grades except
Concealed Fastener

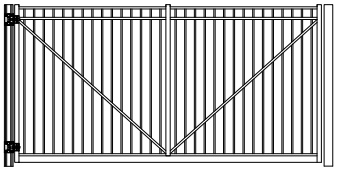
Standard Rail

Flush Bottom Rail

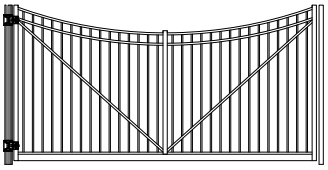
Available panel sizes and colors vary by style. Not all heights and colors available in all styles. For information about pool fence, see your local dealer. Please contact an Alumi-Guard dealer or representative for full product list or visit Alumi-Guard.com for more information.

Estate Gates Swing Gates • Cantilever Gates

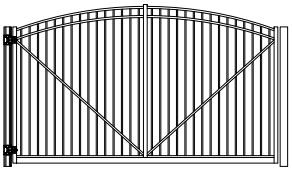
Swing Arch 1



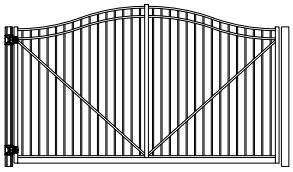
Swing Arch 2



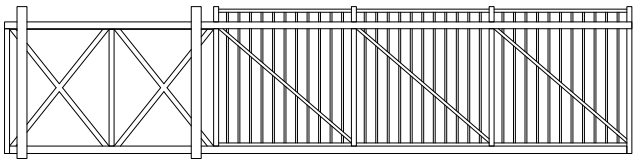
Swing Arch 3



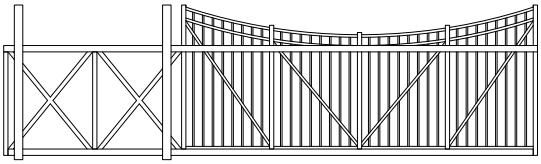
Swing Arch 4



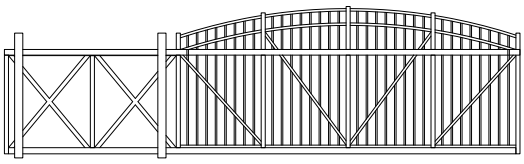
Cantilever Arch 1



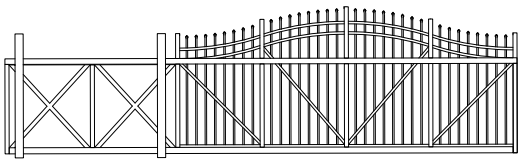
Cantilever Arch 2



Cantilever Arch 3

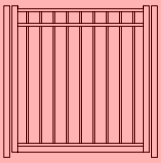


Cantilever Arch 4



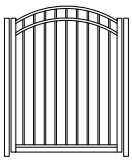
Walk Gates

Arch 1



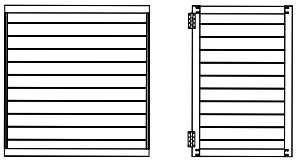
Arch 2

Arch 3

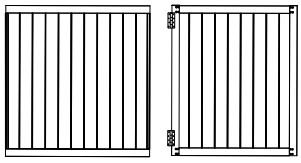


Mélange

Horizontal Panel

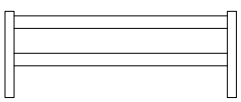


Vertical Panel

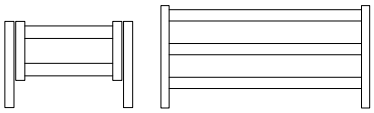


Chariot Post & Rail

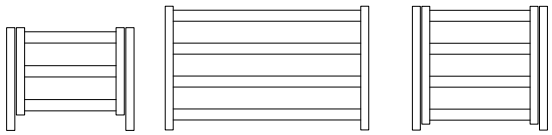
2 Rail Panel/Gate



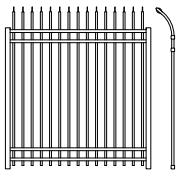
Rail 3 Rail Panel/Gate



4 Rail Panel/Gate

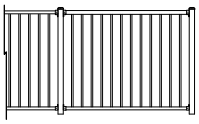


Security

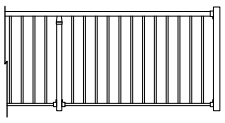


Guardrail/Handrail

Post/Panel Railing



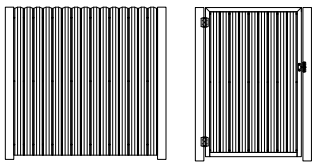
Continuous Top Cap Railing



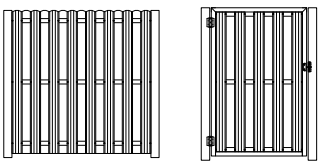
- Pre-Built Panels Available Post/Panel or Continuous
- Boxed Kits only Available Post/Panel
- Colors: Matte Black, Matte Bronze and White

Fortress

Board on Board



Shadowbox



ISTHMUS MONTESSORI ACADEMY

1802 PANKRATZ STREET
MADISON, WI 53704

PROJECT DATA

LOCATION:
1802 PANKRATZ STREET
MADISON, WI 53704

REGULATING MUNICIPALITIES:
CITY OF MADISON
DANE COUNTY
STATE OF WISCONSIN

BUILDING CODE:
CITY OF MADISON ZONING ORDINANCES
DANE COUNTY ZONING ORDINANCES
WISCONSIN ADMINISTRATIVE CODE
2015 INTERNATIONAL BUILDING CODE
ACCESSIBILITY ANSI A117.1 - 2009

PROJECT DESCRIPTION:
BUILDING ADDITION CONSISTING OF:
2 STORIES OF E OCCUPANCY

OCCUPANCY TYPE:
E - SCHOOL
E - DAYCARE
B - ADMINISTRATIVE OFFICES

CONSTRUCTION TYPE:
II-B

ALLOWABLE BUILDING AREA & HEIGHT:

MAXIMUM HEIGHT ABOVE GRADE PLANE (IBC TABLE 504.3)	= 75' FEET
MAXIMUM STORIES ALLOWED (IBC TABLE 504.4)	= 3 STORIES
MAXIMUM AREA ALLOWED PER FLOOR (IBC TABLE 506.2)	= 43,500 SF

ACTUAL BUILDING AREA & HEIGHT:

HEIGHT ABOVE GRADE PLANE	= 32' FEET
STORIES ABOVE GRADE PLANE	= 2 STORIES
FIRST FLOOR EXISTING	= 14,475 SF
FIRST FLOOR ADDITION	= 27,432 SF
TOTAL FIRST FLOOR	= 41,907 SF
SECOND FLOOR EXISTING	= 9,935 SF
SECOND FLOOR EXISTING	= 17,003 SF
TOTAL SECOND FLOOR	= 26,938 SF

NUMBER OF OCCUPANTS (TABLE 1004.1.2):

X OCCUPANCY	= [XX,XXX] SF/ [XX GROSS/NET]	= [XXX] OCC
Y OCCUPANCY	= [XX,XXX] SF/ [XX GROSS/NET]	= [XXX] OCC
TOTAL OCCUPANTS		= [XXX] OCC

PLUMBING:

WATER CLOSETS

MEN @ 1 / 50	= [NUMBER]
WOMEN @ 1 / 50	= [NUMBER]
TOTAL REQUIRED	= [NUMBER]
TOTAL PROVIDED	= [NUMBER]

LAVATORIES

MEN @ 1 / 50	= [NUMBER]
WOMEN @ 1 / 50	= [NUMBER]
TOTAL REQUIRED	= [NUMBER]
TOTAL PROVIDED	= [NUMBER]

SERVICE SINK
REQUIRED = 1 PROVIDE

DRINKING FOUNTAIN
1 REQUIRED PER 100
OR TENANT WILL PROVIDE DRINKING WATER VIA WATER BOTTLES OR SIMILAR

ALL FIXTURES TO COMPLY WITH ICC A117.1

FIRE CONTROL:
FULLY SPRINKLERED BUILDING: NFPA 13
PORTABLE FIRE EXTINGUISHERS (IBC SECTION 906.3.1)

EXITS:
EXIT(S) REQUIRED TO MEET EXITING DISTANCES = [X]
EXIT(S) PROVIDED TO MEET DISTANCES = [X]
MIN 60% OF PUBLIC EXTERIOR DOORS TO BE ON ACCESSIBLE ROUTE

ACCESSIBILITY:
FOLLOW IBC 2015 AND ANSI 117.1 (2009)

PROJECT GENERAL NOTES:

1. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES OR CONFLICTING INFORMATION IN THESE DOCUMENTS. CONTRACTOR SHALL CAREFULLY REVIEW AND COMPARE ALL DRAWINGS DURING THE BIDDING PERIOD AND BEFORE INSTALLATION OF THEIR WORK. ANY INCONSISTENCIES IN THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ARCHITECT AND ENGINEER(S) FOR CLARIFICATION.
2. DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
3. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER IMMEDIATELY UPON DISCOVERING ANY UNANTICIPATED EXISTING SITE CONDITIONS AFFECTING THE EXECUTION OF THESE DOCUMENTS (SUCH AS HAZARDOUS MATERIALS, ETC.).
4. CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS GOVERNING THIS PROJECT.
5. JOB SITE SHALL BE BROOM SWEPT AND CLEAN AT THE END OF EACH DAY. ALL DEBRIS SHALL BE PICKED UP AND DISPOSED OF PROPERLY INTO APPROVED CONTAINER.
6. MAINTAIN DESIGNATED EGRESS ROUTES DURING CONSTRUCTION BY KEEPING CLEAR OF CONSTRUCTION DEBRIS AND CLEARLY MARKING THE PATH OF EGRESS TRAVEL.
7. ALL MECHANICAL (HVAC), ELECTRICAL, PLUMBING AND FIRE PROTECTION (MEP & FP) DESIGN AND CONSTRUCTION TO BE BY A DESIGN-BUILD DELIVERY METHOD AND ARE SUBSEQUENTLY NOT PART OF THESE DOCUMENTS. IT IS THE MEP CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE GENERAL CONTRACTOR AND WITH THESE DRAWINGS THE FINAL DESIGN, RETROFIT AND INSTALLATION OF THESE SYSTEMS. NOTIFY THE ARCHITECT PRIOR TO MAKING ANY REVISIONS TO THE STRUCTURE OR ARCHITECTURAL FEATURES.
8. HVAC CONTRACTOR SHALL SUBMIT PROPER DESIGN DRAWINGS AS NEEDED FOR PLAN APPROVAL AND BUILDING PERMITS.
9. WITHIN THIS DOCUMENT "NORTH, SOUTH, EAST, WEST" ARE REFERRED TO AS PROJECT NORTH AND MAY NOT BE TRUE NORTH.
10. ALL EXPOSED WOOD AND/OR WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
11. PROVIDE GFI OUTLETS NEAR WATER SOURCES AND AS REQUIRED BY IEC.
12. PROVIDE FIRE BLOCKING AND DRAFTSTOPPING THROUGHOUT BUILDING PER IBC CHAPTER 7.
13. SUBMIT ALL FIXTURES, APPLIANCES, MATERIALS, SHOP DRAWINGS, PLAN MODIFICATIONS TO THE ARCHITECT FOR REVIEW AND APPROVAL.
14. IN SOME CASES THE SELECTION OF SPECIFIC ACCESSORIES, HARDWARE, MATERIALS OR FINISHES MAY NOT BE AVAILABLE AT ISSUANCE OF THESE DRAWINGS. THESE INSTANCES ARE INDICATED WITH "TBD", OR "TO BE DETERMINED". IN THESE SITUATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE ALLOWANCES TO COVER THE MATERIAL AND INSTALLATION FOR THAT ELEMENT, BASED ON THE BEST INFORMATION PROVIDED. IF NO INFORMATION IS PROVIDED, ASSUME A MID-RANGE PRODUCT COST TO SATISFY THE INTENT OF THE PROJECT. THE CONTRACTOR SHALL CLEARLY STATE IN THEIR BID PROPOSAL WHAT THE ALLOWANCE VALUE AND UNIT PRICE IS, LISTED SEPARATELY FOR EACH ITEM.
15. IF THE CONTRACTOR ELECTS TO NOT PROVIDE A PRICE FOR ANY ELEMENT CONTAINED IN THESE DOCUMENTS, FOR WHATEVER REASON, THE CONTRACTOR SHALL CLEARLY INDICATE THIS EXCLUSION IN THEIR BID PROPOSAL. IF NO EXCLUSION IS MADE, IT IS THE CONTRACTUAL OBLIGATION OF THE CONTRACTOR TO PROVIDE THE ELEMENT IN ACCORDANCE WITH THE GENERAL INTENT OF THE DRAWINGS.
16. IN THE EVENT OF CONTRADICTION OF DOCUMENTS, SPECIFICATIONS SHALL TAKE PRECEDENT. IF A CONTRADICTION REMAINS, OR IF THE SPECIFICATION DOES NOT CLARIFY, THEN THE CONTRACTOR SHALL ASSUME THE MOST EXPENSIVE OF THE MATERIALS AND INSTALLATION WHEN COMPARING THE CONTRADICTORY ITEMS.

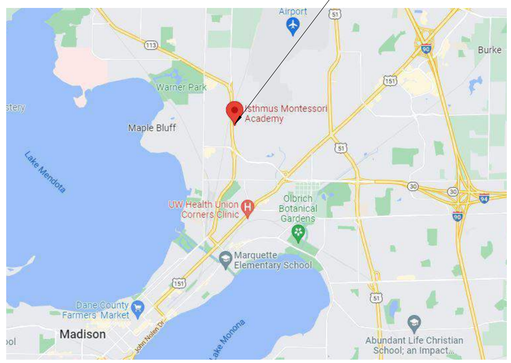
GENERAL PARKING NOTES:

A. SITE AREA: 213,880 SF +/- (4.91 ACRE)

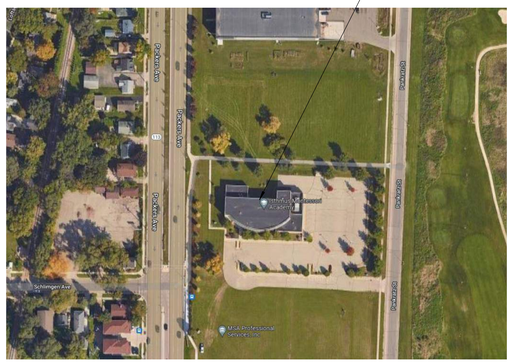
B. PARKING REQUIREMENTS:
SPACE PER CLASSROOM + 1/5 STUDENTS OF LEGAL DRIVING AGE.)

STANDARD STALLS PROVIDED	= 72 STALLS
VAN ACCESSIBLE STALLS PROVIDED	= 2 STALLS
ADA STALLS PROVIDED	= 2 STALLS
TOTAL STALLS PROVIDED	= 76 STALLS
BIKE PARKING REQUIRED 1/5	= CONFIRM WITH ZONING
BIKE PARKING PROVIDED	= 42 STALLS

PROJECT LOCATION



BUILDING LOCATION



PROJECT CONTACTS:

OWNER:
ISTHMUS MONTESSORI ACADEMY
1802 PANKRATZ STREET
MADISON, WI 53704

CONTACT:
MELISSA DROESSLER (OWNER)
608-661-8200

ARCHITECT:
SKETCHWORKS ARCHITECTURE, LLC
2501 PARMENTER STREET, SUITE 100B
MIDDLETON, WI 53562

CONTACT:
BRAD KONING (ARCHITECT)
CLAIRE BRUNER (DESIGNER)
608-836-7570

GENERAL CONTRACTOR:
HARMONY CONSTRUCTION
906 JONATHAN DR.
MADISON, WI 53713

CONTACT:
SHANNON MCCANN (CFO)
608-224-3310

CIVIL / LANDSCAPE DESIGNER:
MSA PROFESSIONAL SERVICES, INC.
1702 PANKRATZ STREET
MADISON, WI 537704

CONTACT:
JAMIE KURTEN CHMIELEWSKI
608-242-7779

STRUCTURAL ENGINEER:
MP SQUARED STRUCTURAL ENGINEERS
583 D'ONOFRIO DR., STE. 201
MADISON, WI 53719

CONTACT:
MARK PUCCIO
608-821-4770

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JDR ENGINEERING, INC.

MSA

ISTHMUS MONTESSORI ACADEMY
PHASE 2 ADDITION
1802 PANKRATZ STREET
MADISON, WI 53704

Project Status

10.31.2022	UDC FINAL

PROJ. #: 22130-01

COVER SHEET

G001

PRELIMINARY

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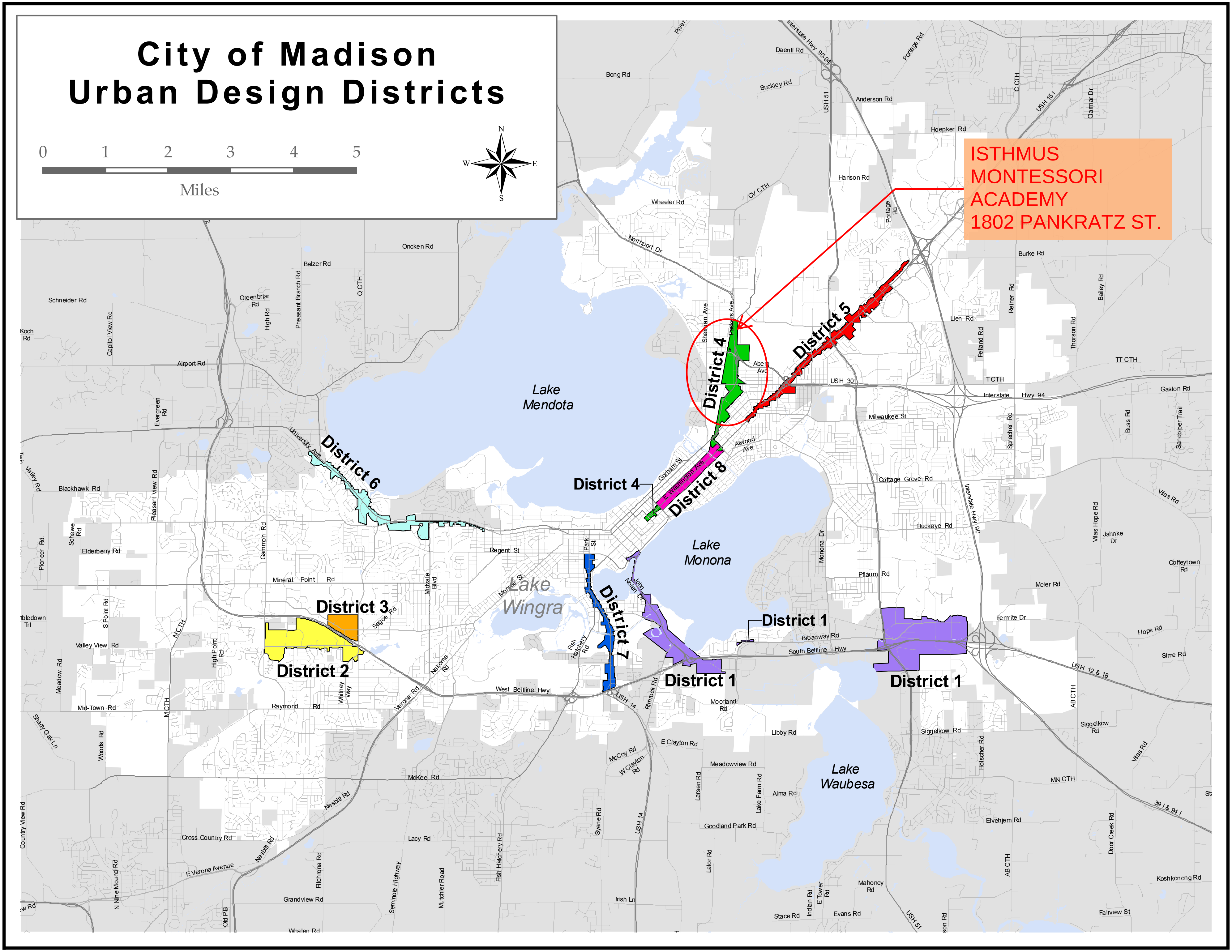
10/30/2022 5:33:27 PM



City of Madison Department of Planning & Community & Economic Development, Planning Unit, January 2011, slm

PLAN NORTH

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JDR ENGINEERING, INC.

MSA

ISTHMUS MONTESSORI ACADEMY

PHASE 2 ADDITION

1802 PANKRATZ STREET
MADISON, WI 53704

Project Status

10.31.2022	UDC FINAL

PROJ. #: 22130-01

EXISTING BUILDING PHOTOS

X303

PRELIMINARY

ISTHMUS MONTESSORI ACADEMY

EXTERIOR RENDERINGS

10/31/22

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7780 Elmwood Ave., Suite 208 ◦ Middleton, WI 53562 ◦ 608.836.7570

ISTHMUS MONTESSORI ACADEMY

EXTERIOR RENDERINGS

10/31/22

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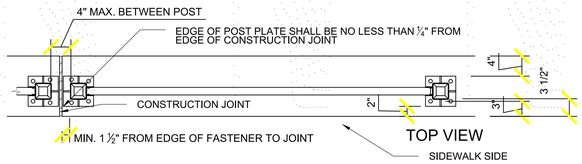
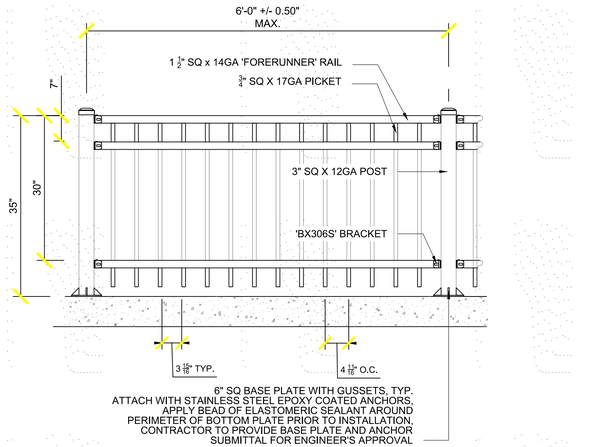
NOTES:
A. ALIGN TOP RAIL OF GUARDRAIL WITH FINISH SURFACE.
B. WHERE INDICATED OR REQUIRED BY BUILDING CODE PROVIDE HANDRAIL, MEETING REQUIREMENTS OF OF ADAAG 2010 SECTION505. MOUNT TO GUARDRAIL PER MANUFACTURER SPECIFICATION, REPAIR FINISH AS REQUIRED PER MANUFACTURER SPECIFICATION.
C. PROVIDE FREEDOM OUTDOOR LIVING, NEW HAVEN ALUMINUM FENCING, BLACK OR AN APPROVED EQUAL.

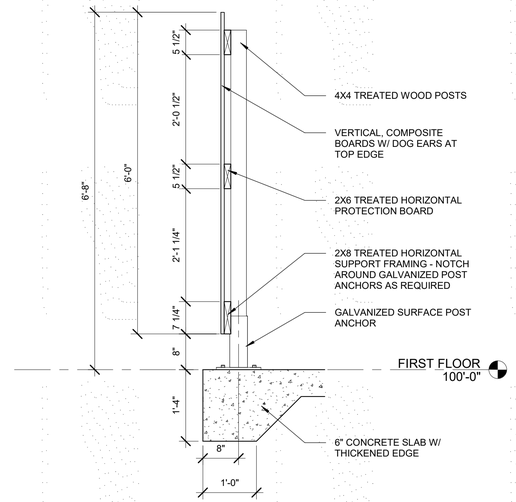




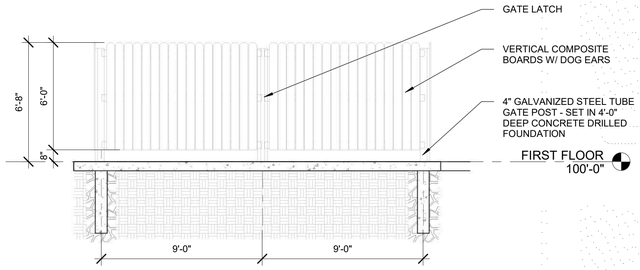
ELEVATION VIEW

REFER TO CUT SHEETS FOR SPECIFIC IMAGES OF FENCE SPECIFIED BELOW

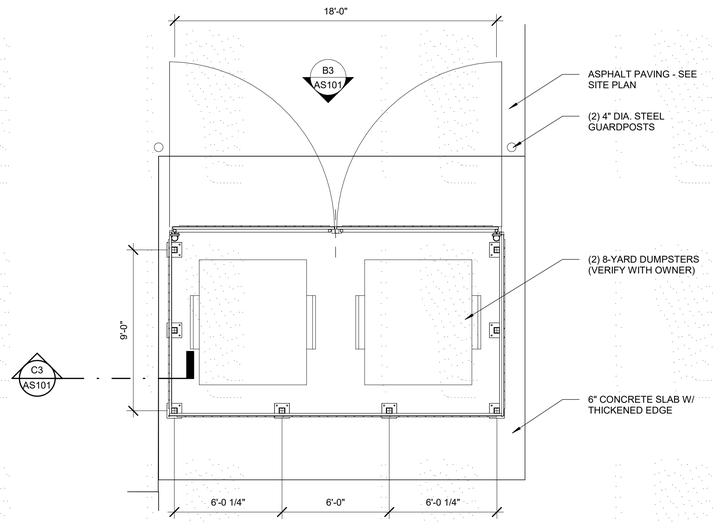
3 DECORATIVE GUARDRAIL DETAIL - SURFACE MOUNT
---- NTS



C3 SECTION @ DUMPSTER ENCLOSURE
3/4" = 1'-0"



B3 DUMPSTER ENCLOSURE GATE ELEVATION
1/4" = 1'-0"



A3 DUMPSTER ENCLOSURE PLAN
1/4" = 1'-0"

0' 1' 2' 4' 8'
0' 1/4" 1/2" 1" 2"
SCALE: 1/4" = 1'-0"

PLAN NORTH

PRELIMINARY

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JDR ENGINEERING, INC.

MSA

ISTHMUS MONTESSORI ACADEMY

PHASE 2 ADDITION
1802 PANKRATZ STREET
MADISON, WI 53704

Project Status

10.31.2022	UDC FINAL

PROJ. #:	22130-01

ARCHITECTURAL SITE DETAILS

AS101

SITE LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	VOLTAGE	WATTS	LAMP	MOUNTING	NOTES
C	EXTERIOR WALL LIGHT	LITHONIA	OVFL LED 2RH 40K 120 WH HP17	120 V	20 W	LED	WALL	
E	EXTERIOR WALL LIGHT	LITHONIA	WDGE2 LED P3 40K 80CRI VW MVOLT SRM DNAXD	120 V	23 W	LED	WALL	
F	EXTERIOR CANOPY LIGHT	LITHONIA	VCVL LED V4 P3 40K 80CRI T5E MVOLT SRM	120 V	43 W	LED	SURFACE	
G	UPLIGHT/DOWNLIGHT WALL SCONCE	WAC LIGHTING	WS-W2505-AL	120 V	30 W	LED	WALL	PROVIDE 4000K COLOR TEMPERATURE
S1	PARKING LOT POLE LIGHT	LITHONIA	KAD LED 20C 530 40K R5 MVOLT DWHXD	120 V	71 W	LED	POLE	PROVIDE MANUFACTURER'S MOUNTING ACCESSORIES AS REQUIRED. PROVIDE LIGHT POLE, MODEL SSS16B4-4-BH, AS MANUFACTURED BY HAPCO, OR EQUAL.

SITE PHOTOMETRICS SCHEDULE

Calculation Points Name	Average	Minimum	Max. Uniformity Ratio (Avg/Min)
School South	1.16 fc	0.26 fc	4.4
Property Line	0.00 fc	0.00 fc	0.0
Parking Lot	1.56 fc	0.45 fc	3.4
Courtyard	1.89 fc	0.32 fc	5.9
Remaining Site (Not Pedestrain Traffic)	0.00 fc	0.00 fc	0.0

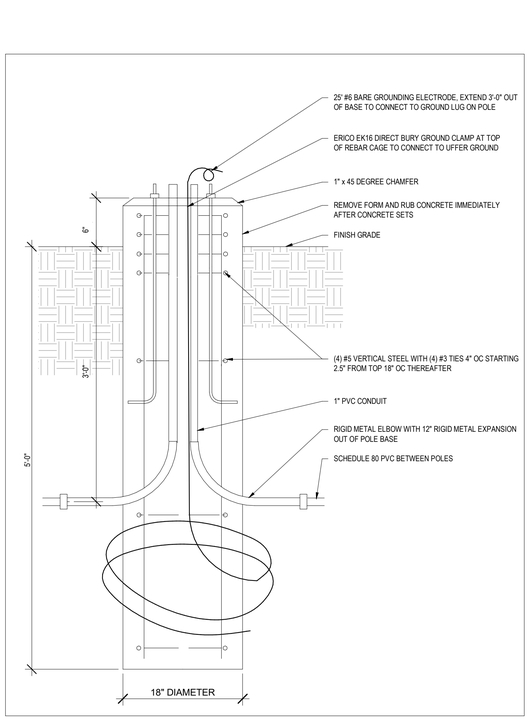
TYPE S1 LIGHT FIXTURES ARE POLE-MOUNTED AT 18'-0" AFG.

TYPE C LIGHT FIXTURES ARE SURFACE-MOUNTED UNDER THE CANOPY AWNING AT 6'-4" AFG.

TYPE E LIGHT FIXTURES ARE WALL-MOUNTED AT 8'-6" AFG.

TYPE F LIGHT FIXTURES ARE SURFACE-MOUNTED UNDER CANOPY AREAS AT 9'-6" AFG.

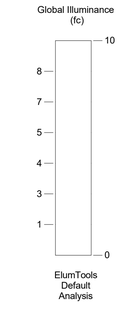
TYPE G LIGHT FIXTURES ARE WALL-MOUNTED AT HEIGHTS SHOWN ON THIS DRAWING.



PLAN NORTH

2 POLE BASE DETAIL

NONE



A2 SITE ELECTRICAL PHOTOMETRICS PLAN

(REFER TO LIGHTING SUBMITTAL FOR FIXTURE CUT SHEETS)

1" = 30'-0"

PRELIMINARY

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PHASE 2 ADDITION
1802 PANKRATZ STREET
MADISON, WI 53704

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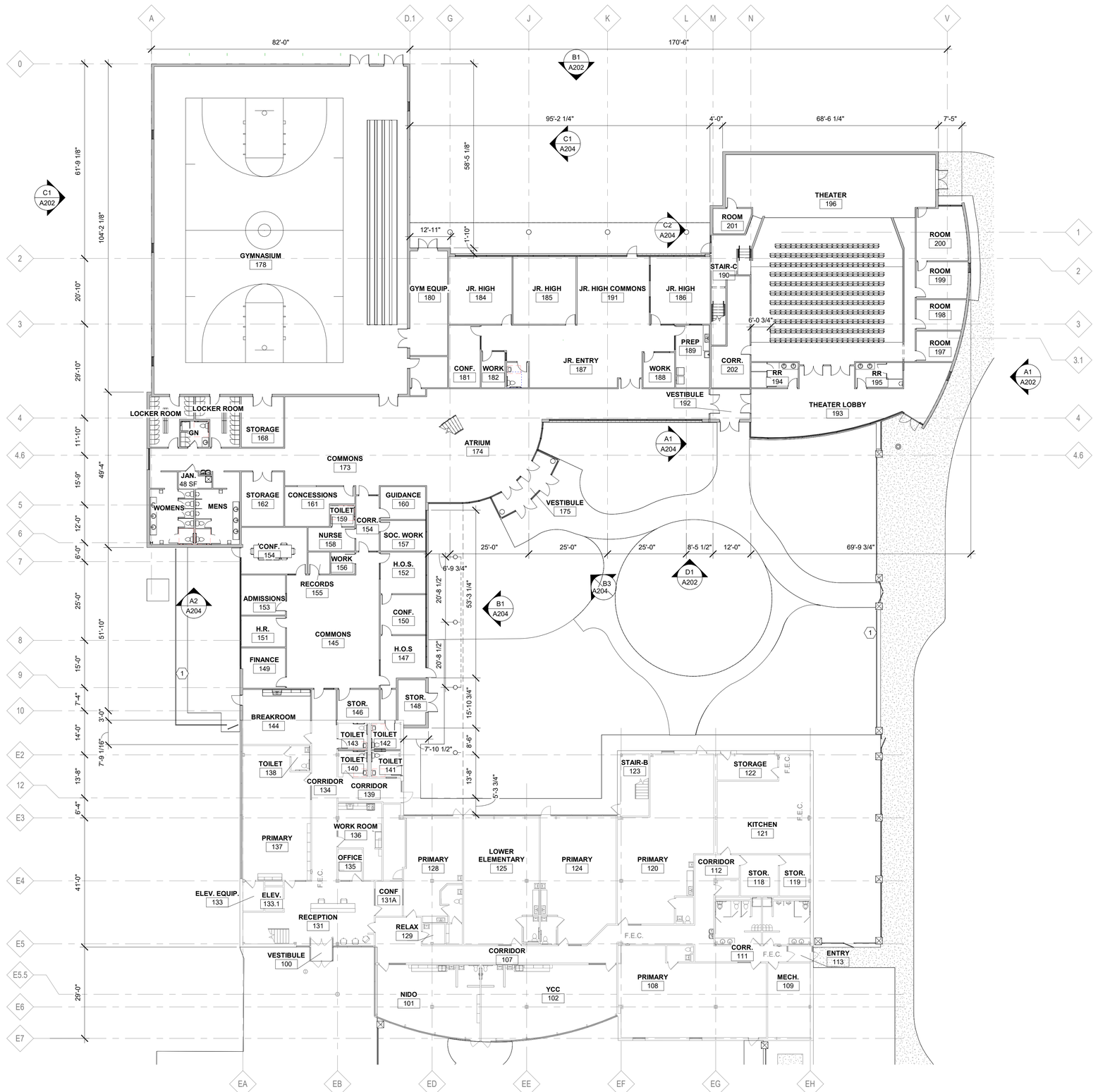
PROJ. #:	22130-01

SITE ELECTRICAL PHOTOMETRICS PLAN

AS102



A1 FIRST FLOOR PLAN OVERALL
1/16" = 1'-0"

GENERAL PLAN NOTES:

A. MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION IMPROVEMENTS TO BE DESIGN BUILD, UNLESS NOTED OTHERWISE. DESIGNED AS REQUIRED BY CURRENT BUILDING CODES. MEP DESIGN BUILD CONTRACTOR(S) RESPONSIBLE FOR ENSURING CODE COMPLIANT CONSTRUCTION OF NEW SYSTEMS IN TENANT SPACES.

B. PROVIDE SOUND INSULATION IN ALL DEMISING WALLS AND INTERIOR WALLS, UNLESS NOTED OTHERWISE.

C. ALL INTERIOR WALLS TO BE 3 5/8", UNLESS NOTED OTHERWISE.

D. PROVIDE MOISTURE RESISTANT GWB AT ALL PLUMBING WALLS.

E. PROVIDE ACCESSIBLE TOILET ROOM FIXTURES AND ACCESSORIES PER MOUNTING HEIGHTS INDICATED ON SHEET A117.1.

F. PROVIDE 2x BLOCKING AT ALL GRAB BAR LOCATIONS PER ANSI A117.1 2009

G. PROVIDE ADA APPROVED THRESHOLDS AT ALL NEW FLOOR TRANSITIONS AND DOORWAYS.

H. EXTERIOR DIMENSIONS ARE FROM GRIDLINE TO GRIDLINE, OR TO EDGE OF FOUNDATION WALL UNLESS NOTED OTHERWISE. PLEASE CONTACT ARCHITECT WITH ANY DISCREPANCIES.

I. INTERIOR DIMENSIONS FOR NEW CONSTRUCTION ARE TO FACE OF FRAME OR COLUMN CENTERLINE UNLESS NOTED OTHERWISE. ALL DIMENSIONS FROM EXISTING WALLS ARE FROM FINISH FACE UNLESS NOTED OTHERWISE.

J. ALL DOORS WITH A CLOSE PROXIMITY OF A PERPENDICULAR WALL SHALL HAVE A TYPICAL DIMENSION OF 6" FROM FACE OF FRAME TO DOOR OPENING UNLESS NOTED OTHERWISE.

K. VERIFY ALL EXISTING CONDITIONS AND ADJUST WALL DIMENSIONS ACCORDINGLY. CONTACT ARCHITECT WITH ANY DISCREPANCIES.

L. CONTRACTOR SHALL NOTIFY ARCHITECT, ENGINEER AND OWNER IMMEDIATELY UPON DISCOVERING ANY UNANTICIPATED STRUCTURAL CONDITIONS OR DISCREPANCIES WITH PROPOSED MODIFICATIONS.

M. FIRE EXTINGUISHER CABINETS SHALL BE RATED TO MEET THE ASSOCIATED WALL FIRE RATING.

N. GENERAL CONTRACTOR TO SECURE CONSTRUCTION AREA DURING CONSTRUCTION WORK. SEAL ALL DOORS AS REQUIRED. CONSTRUCT AND MAINTAIN A FLOOR TO CEILING DUST BARRIER, TO PROVIDE SEPARATION FOR DUST, DEBRIS AND SOUND.

O. GENERAL CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULE TO MINIMIZE IMPACT ON EXISTING BUILDING OPERATIONS AND PLANNED EVENTS. CONSTRUCTION SPACE MUST BE CLEAN AND AVAILABLE FOR USE PERIODICALLY PER OWNERS REQUEST. VERIFY SCHEDULED EVENTS WITH OWNER PRIOR TO CONSTRUCTION START AND ARRANGE CONSTRUCTION SCHEDULE TO MEET OWNER'S NEEDS. COORDINATE SYSTEMS AND UTILITY SHUT DOWNS WITH OWNER PRIOR TO COMMENCEMENT OF WORK.

P. SUBMIT ALL FINISHES TO THE ARCHITECT FOR APPROVAL.

HATCH PATTERN KEY:

NEW CONSTRUCTION

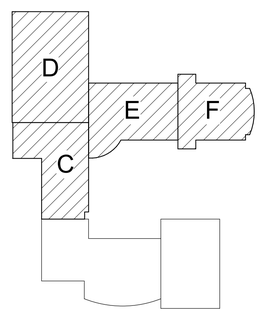
EXISTING CONSTRUCTION

(#) PLAN KEYNOTES:

1 <varies>

2 DEF

KEY PLAN



0' 4' 8' 16' 32'
0' 1/4" 1/2" 1" 2"
SCALE: 1/16" = 1'-0"

PLAN NORTH

PRELIMINARY

REVIEW

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PHASE 2 ADDITION
1802 PANKRATZ STREET
MADISON, WI 53704

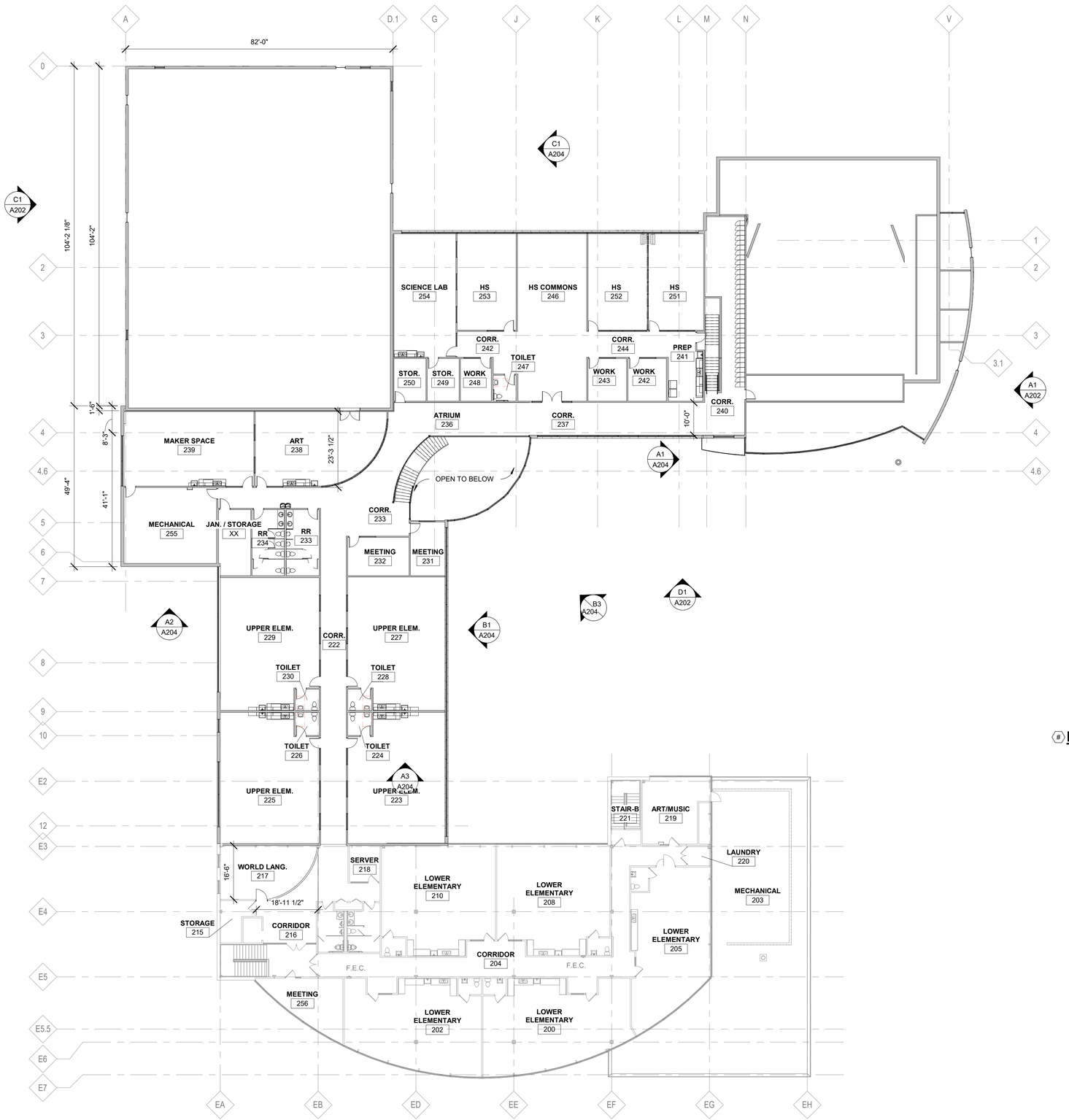
Project Status

10.31.2022	UDC FINAL

PROJ. #: 22130-01

FIRST FLOOR PLAN OVERALL

A101



A1 SECOND FLOOR OVERALL
1/16" = 1'-0"

GENERAL PLAN NOTES:

A. MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION IMPROVEMENTS TO BE DESIGN BUILD, UNLESS NOTED OTHERWISE. DESIGNED AS REQUIRED BY CURRENT BUILDING CODES. MEP DESIGN BUILD CONTRACTOR(S) RESPONSIBLE FOR ENSURING CODE COMPLIANT CONSTRUCTION OF NEW SYSTEMS IN TENANT SPACES.

B. PROVIDE SOUND INSULATION IN ALL DEMISING WALLS AND INTERIOR WALLS, UNLESS NOTED OTHERWISE.

C. ALL INTERIOR WALLS TO BE 3 5/8", UNLESS NOTED OTHERWISE.

D. PROVIDE MOISTURE RESISTANT GWB AT ALL PLUMBING WALLS.

E. PROVIDE ACCESSIBLE TOILET ROOM FIXTURES AND ACCESSORIES PER MOUNTING HEIGHTS INDICATED ON SHEET A501.

F. PROVIDE 2x BLOCKING AT ALL GRAB BAR LOCATIONS PER ANSI A117.1 2009

G. PROVIDE ADA APPROVED THRESHOLDS AT ALL NEW FLOOR TRANSITIONS AND DOORWAYS.

H. EXTERIOR DIMENSIONS ARE FROM GRIDLINE TO GRIDLINE, OR TO EDGE OF FOUNDATION WALL UNLESS NOTED OTHERWISE. PLEASE CONTACT ARCHITECT WITH ANY DISCREPANCIES.

I. INTERIOR DIMENSIONS FOR NEW CONSTRUCTION ARE TO FACE OF FRAME OR COLUMN CENTERLINE UNLESS NOTED OTHERWISE. ALL DIMENSIONS FROM EXISTING WALLS ARE FROM FINISH FACE UNLESS NOTED OTHERWISE.

J. ALL DOORS WITH A CLOSE PROXIMITY OF A PERPENDICULAR WALL SHALL HAVE A TYPICAL DIMENSION OF 6" FROM FACE OF FRAME TO DOOR OPENING UNLESS NOTED OTHERWISE.

K. VERIFY ALL EXISTING CONDITIONS AND ADJUST WALL DIMENSIONS ACCORDINGLY. CONTACT ARCHITECT WITH ANY DISCREPANCIES.

L. CONTRACTOR SHALL NOTIFY ARCHITECT, ENGINEER AND OWNER IMMEDIATELY UPON DISCOVERING ANY UNANTICIPATED STRUCTURAL CONDITIONS OR DISCREPANCIES WITH PROPOSED MODIFICATIONS.

M. FIRE EXTINGUISHER CABINETS SHALL BE RATED TO MEET THE ASSOCIATED WALL FIRE RATING.

N. GENERAL CONTRACTOR TO SECURE CONSTRUCTION AREA DURING CONSTRUCTION WORK. SEAL ALL DOORS AS REQUIRED. CONSTRUCT AND MAINTAIN A FLOOR TO CEILING DUST BARRIER, TO PROVIDE SEPARATION FOR DUST, DEBRIS AND SOUND.

O. GENERAL CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULE TO MINIMIZE IMPACT ON EXISTING BUILDING OPERATIONS AND PLANNED EVENTS. CONSTRUCTION SPACE MUST BE CLEAN AND AVAILABLE FOR USE PERIODICALLY PER OWNERS REQUEST. VERIFY SCHEDULED EVENTS WITH OWNER PRIOR TO CONSTRUCTION START AND ARRANGE CONSTRUCTION SCHEDULE TO MEET OWNER'S NEEDS. COORDINATE SYSTEMS AND UTILITY SHUT DOWNS WITH OWNER PRIOR TO COMMENCEMENT OF WORK.

P. SUBMIT ALL FINISHES TO THE ARCHITECT FOR APPROVAL.

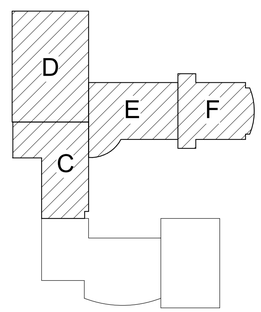
HATCH PATTERN KEY:

NEW CONSTRUCTION

EXISTING CONSTRUCTION

(#) PLAN KEYNOTES:

KEY PLAN



0' 4' 8' 16' 32'
0' 1/4" 1/2" 1" 2"
SCALE: 1/16" = 1'-0"

PLAN NORTH

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1802 PANKRATZ STREET
MADISON, WI 53704

Project Status

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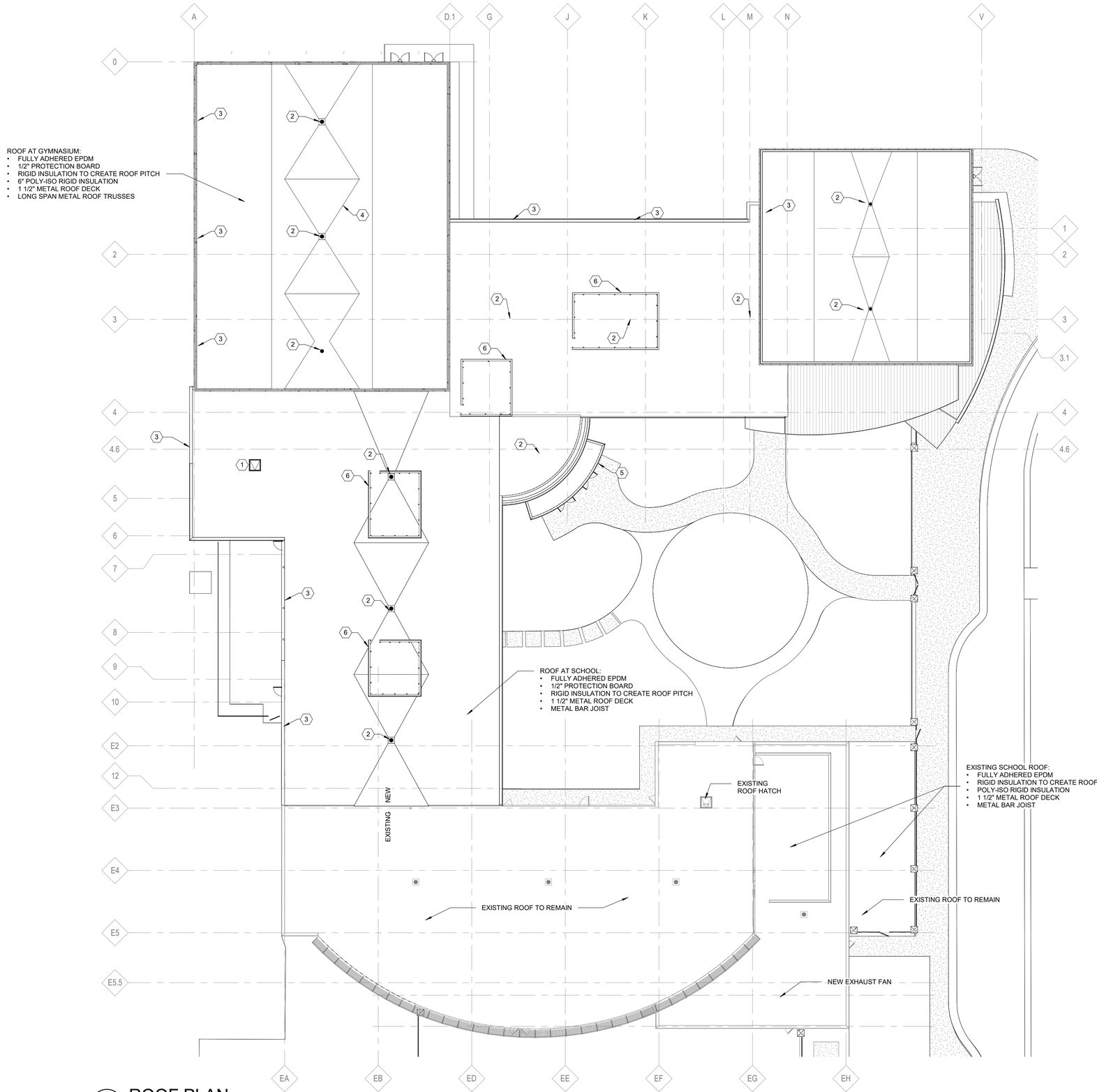
PROJ. #: 22130-01

SECOND FLOOR PLAN OVERALL

A102



A1 ROOF PLAN
1/16" = 1'-0"

0' 4' 8' 16' 32'
0' 1/4" 1/2" 1" 2"
SCALE: 1/16" = 1'-0"

PLAN NORTH

ROOF PLAN GENERAL NOTES:

A. EXTERIOR DIMENSIONS ARE FROM GRIDLINE TO GRIDLINE, OR TO EDGE OF FOUNDATION WALL UNLESS OTHERWISE NOTED. PLEASE CONTACT ARCHITECT WITH ANY DISCREPANCIES.

B. DIMENSIONS ARE TO FACE OF [illegible] UNLESS NOTED OTHERWISE. VERIFY ALL EXISTING CONDITIONS AND ADJUST ALL DIMENSIONS ACCORDINGLY. CONTACT ARCHITECT WITH ANY DISCREPANCIES.

C. STAIRWELL, ELEVATOR, AND MECHANICAL CHASE INTERIOR WALLS SHALL BE CONTINUOUS TO BOTTOM OF RATED ROOFING ASSEMBLY CAP, MAINTAIN CONTINUITY OF FIRE RATING FROM LOWEST FLOOR THROUGH ROOF OR AS OTHERWISE NOTED.

D. INSTALL ICE AND WATER SHIELD AT ALL ROOF EAVES AND VALLEYS. EXTEND FROM EAVE TO 24" MINIMUM INSIDE THE EXTERIOR WALL LINE. INSTALL PER MANUFACTURER SPECIFICATIONS.

E. FINAL DOWNSPOUT / SCUPPER LOCATION(S) SHOULD BE COORDINATED BETWEEN THE ROOFING CONTRACTOR, THE ARCHITECT AND THE CIVIL ENGINEER, VERIFY LOCATION OF DOWNSPOUTS.

(#) ROOF PLAN KEYNOTES:

1 ROOF HATCH
2 ROOF DRAINS
3 OVERFLOW SCUPPER
4 CRICKETS, TYP.
5 CANOPY ROOF AT ENTRY
6 ROOF SCREEN (TYP.)

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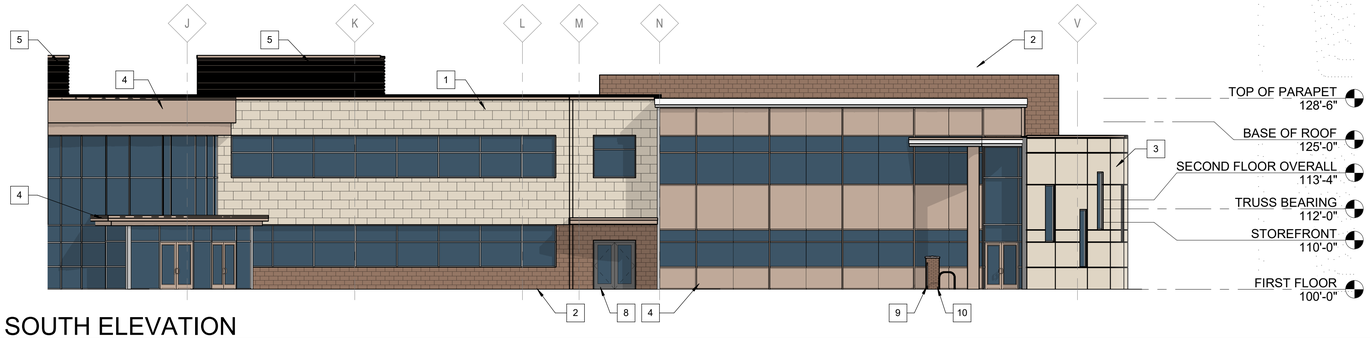
ROOF PLAN

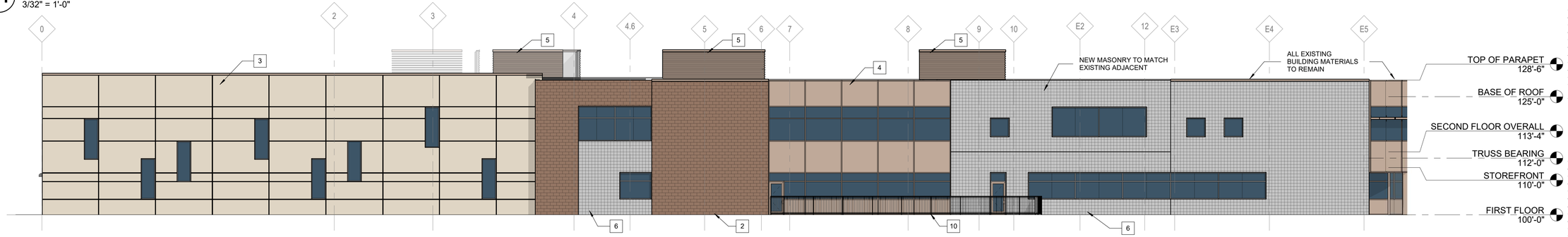
A105

EXTERIOR MATERIAL SCHEDULE

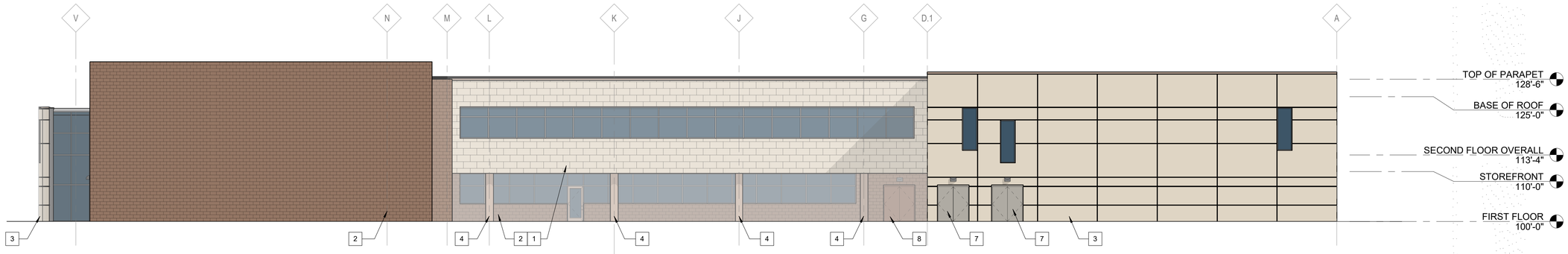
#	DESCRIPTION	MANUFACTURER	TYPE/STYLE	COLOR	HEIGHT	WIDTH	COMMENTS
1	MASONRY VENEER	BUECHEL STONE CORP.	HONEY STONES - LIMESTONE	SILVERDALE	12"	24"	
2	BRICK	COUNTY MATERIALS	HERITAGE COLLECTION	COFFEE	4"	16"	
3	PRECAST WALL PANEL						
4	METAL WALL PANEL			CHAMPAGNE			
5	CORRUGATED METAL WALL PANEL	CMG	ULTRA - RIB WALL PANEL	CHAMPAGNE			
6	CMU MASONRY	COUNTY MATERIALS	TBD	<varies>	8"	8"	MATERIAL TO MATCH EXISTING MASONRY ON WEST SIDE OF BUILDING
7	PAINT	-	-	MATCH ADJACENT WALL	-	-	
8	PAINT	-	-	MATCH ADJACENT WALL	-	-	
9	BRICK	COUNTY MATERIALS	HERITAGE COLLECTION	COFFEE	4"	8"	
10	FENCE	ALUMINUM-GUARD COMERCIAL	ASCOT 3 RAIL GUARD	BLACK	-	-	



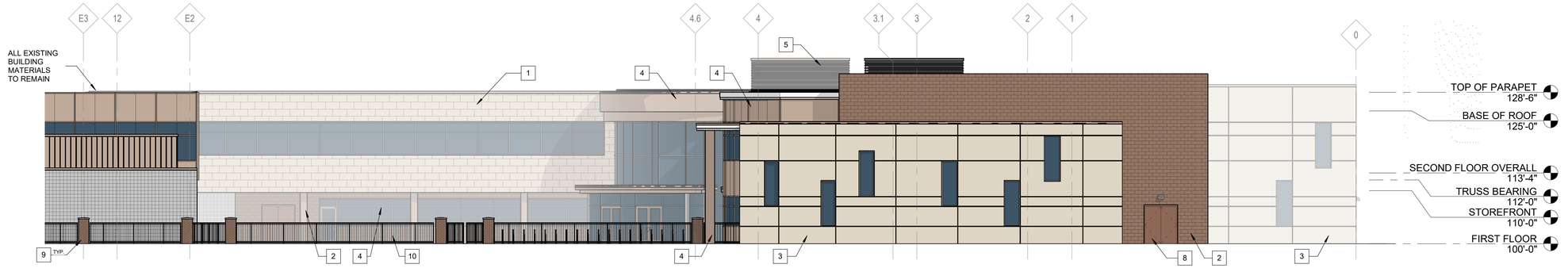
D1 SOUTH ELEVATION
3/32" = 1'-0"



C1 WEST ELEVATION
3/32" = 1'-0"



B1 NORTH ELEVATION
3/32" = 1'-0"



A1 EAST ELEVATION
3/32" = 1'-0"

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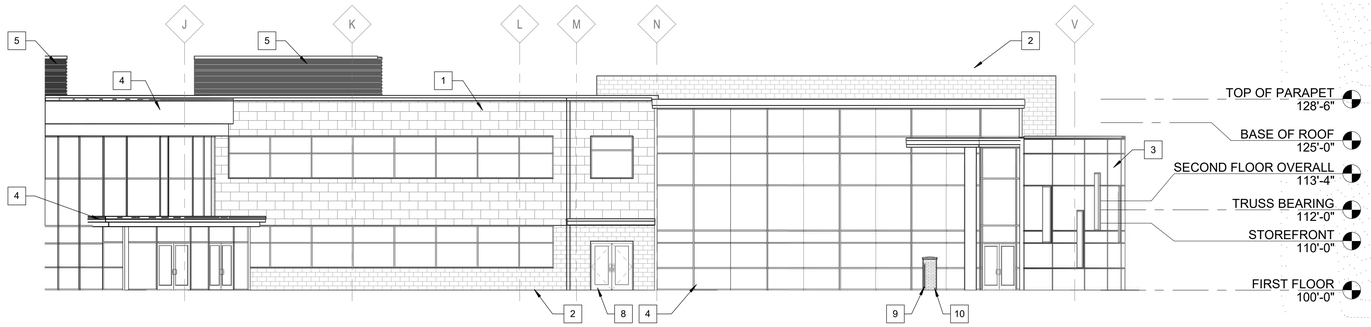
EXTERIOR ELEVATIONS

A201

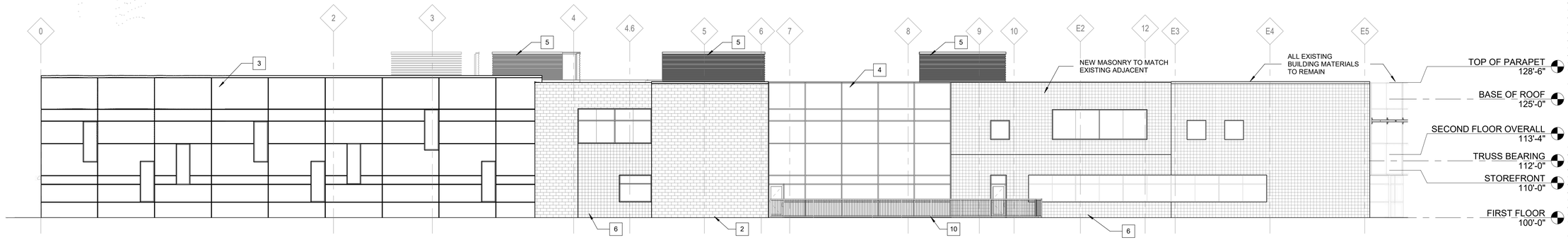


D1 SOUTH ELEVATION

3/32" = 1'-0"

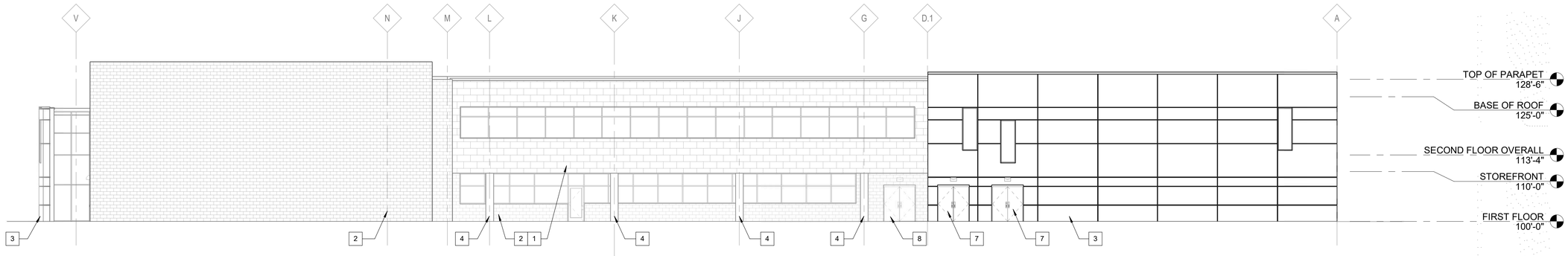
EXTERIOR MATERIAL SCHEDULE

#	DESCRIPTION	MANUFACTURER	TYPE/STYLE	COLOR	HEIGHT	WIDTH	COMMENTS
1	MASONRY VENEER	BUECHEL STONE CORP.	HONEY STONES - LIMESTONE	SILVERDALE	12"	24"	
2	BRICK	COUNTY MATERIALS	HERITAGE COLLECTION	COFFEE	4"	16"	
3	PRECAST WALL PANEL						
4	METAL WALL PANEL			CHAMPAGNE			
5	CORRUGATED METAL WALL PANEL	CMG	ULTRA - RIB WALL PANEL	CHAMPAGNE			
6	CMU MASONRY	COUNTY MATERIALS	TBD	<varies>	8"	8"	MATERIAL TO MATCH EXISTING MASONRY ON WEST SIDE OF BUILDING
7	PAINT	-	-	MATCH ADJACENT WALL	-	-	
8	PAINT	-	-	MATCH ADJACENT WALL	-	-	
9	BRICK	COUNTY MATERIALS	HERITAGE COLLECTION	COFFEE	4"	8"	
10	FENCE	ALUMINUM-GUARD COMERCIAL	ASCOT 3 RAIL GUARD	BLACK	-	-	



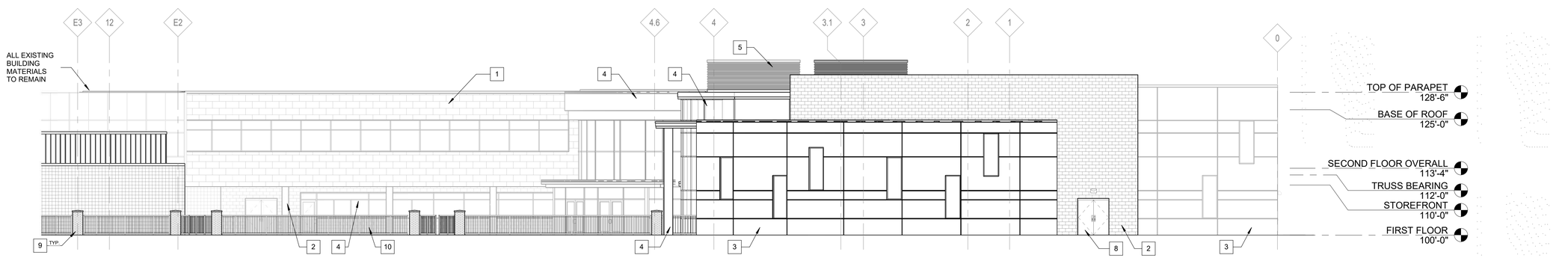
C1 WEST ELEVATION

3/32" = 1'-0"



B1 NORTH ELEVATION

3/32" = 1'-0"



A1 EAST ELEVATION

3/32" = 1'-0"

PRELIMINARY

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MADISON, WI 53704

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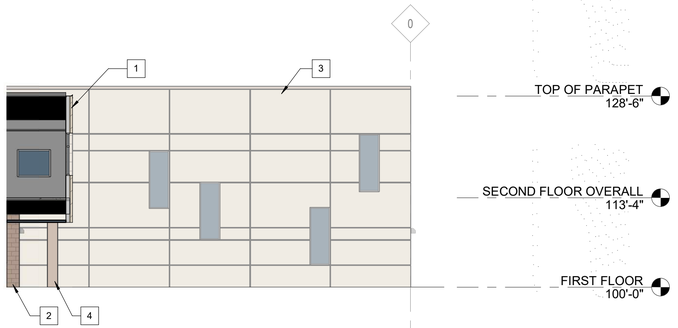
PROJ. #: 22130-01

EXTERIOR ELEVATIONS

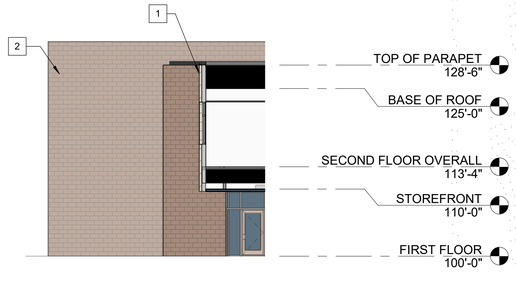
A202

EXTERIOR MATERIAL SCHEDULE

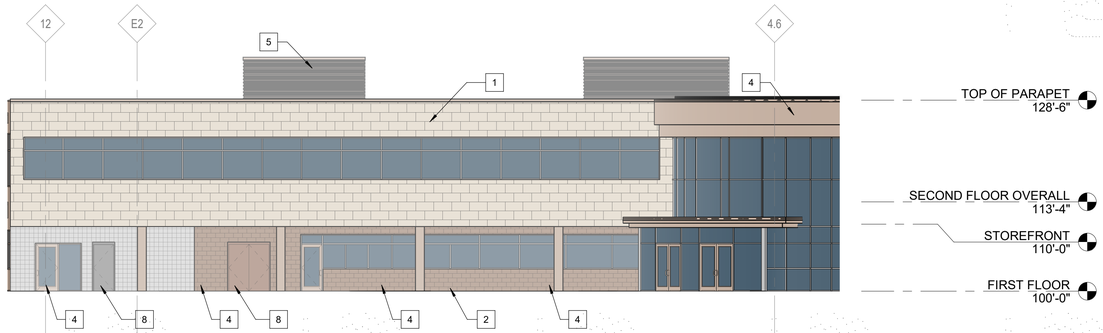
#	DESCRIPTION	MANUFACTURER	TYPE/STYLE	COLOR	HEIGHT	WIDTH	COMMENTS
1	MASONRY VENEER	BUECHEL STONE CORP.	HONEY STONES - LIMESTONE	SILVERDALE	12"	24"	
2	BRICK	COUNTY MATERIALS	HERITAGE COLLECTION	COFFEE	4"	16"	
3	PRECAST WALL PANEL						
4	METAL WALL PANEL			CHAMPAGNE			
5	CORRUGATED METAL WALL PANEL	CMG	ULTRA - RIB WALL PANEL	CHAMPAGNE			
6	CMU MASONRY	COUNTY MATERIALS	TBD	<varies>	8"	8"	MATERIAL TO MATCH EXISTING MASONRY ON WEST SIDE OF BUILDING
7	PAINT	-	-	MATCH ADJACENT WALL	-	-	
8	PAINT	-	-	MATCH ADJACENT WALL	-	-	
9	BRICK	COUNTY MATERIALS	HERITAGE COLLECTION	COFFEE	4"	8"	
10	FENCE	ALUMINUM-GUARD COMERCIAL	ASCOT 3 RAIL GUARD	BLACK	-	-	



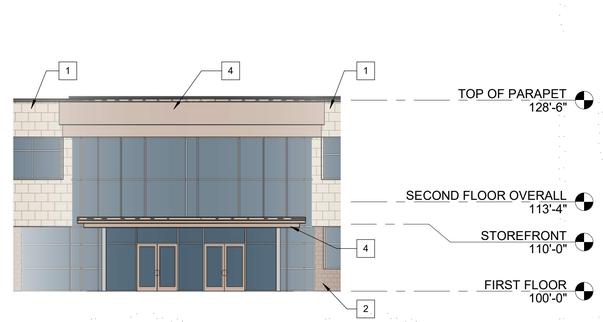
C1 EAST GYM WALL
3/32" = 1'-0"



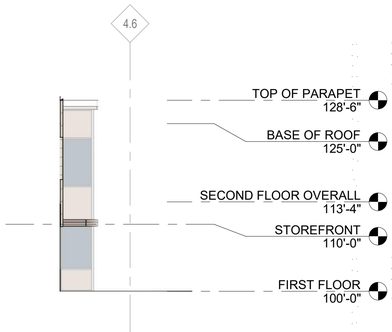
C2 WEST THEATER WALL
3/32" = 1'-0"



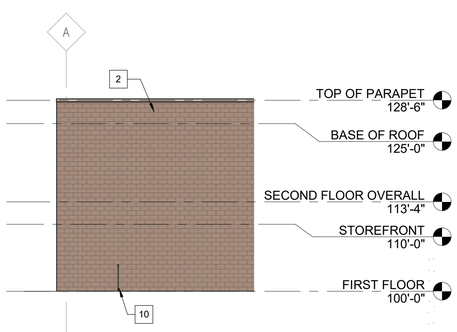
B1 EAST ELEVATION - INSIDE COURTYARD
3/32" = 1'-0"



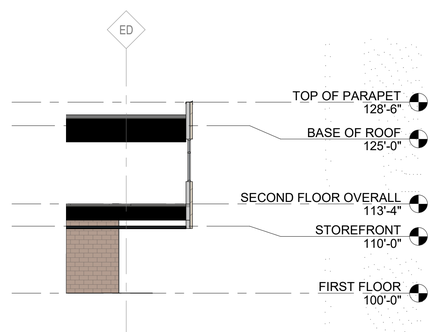
B3 ENTRY VESTIBULE
3/32" = 1'-0"



A1 WEST VESTIBULE ELEVATION
3/32" = 1'-0"



A2 SOUTH WEST ADMIN WALL
3/32" = 1'-0"



A3 SW ATRIUM WALL
3/32" = 1'-0"

PRELIMINARY

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JDR ENGINEERING, INC.

MSA

ISTHMUS MONTESSORI ACADEMY

PHASE 2 ADDITION
1802 PANKRATZ STREET
MADISON, WI 53704

Project Status

10.31.2022	UDC FINAL

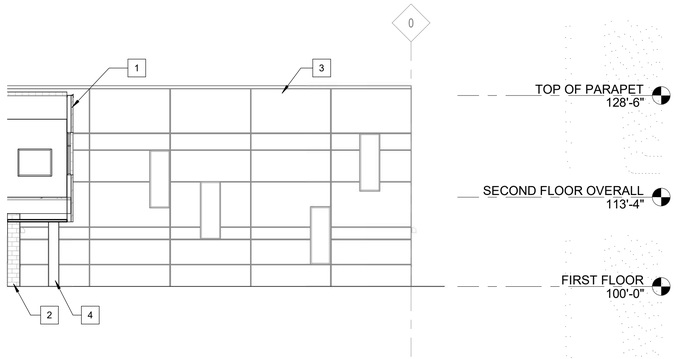
PROJ. #: 22130-01

EXTERIOR ELEVATIONS

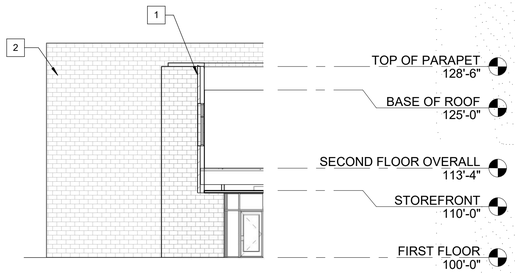
A203

EXTERIOR MATERIAL SCHEDULE

#	DESCRIPTION	MANUFACTURER	TYPE/STYLE	COLOR	HEIGHT	WIDTH	COMMENTS
1	MASONRY VENEER	BUECHEL STONE CORP.	HONEY STONES - LIMESTONE	SILVERDALE	12"	24"	
2	BRICK	COUNTY MATERIALS	HERITAGE COLLECTION	COFFEE	4"	16"	
3	PRECAST WALL PANEL						
4	METAL WALL PANEL			CHAMPAGNE			
5	CORRUGATED METAL WALL PANEL	CMG	ULTRA - RIB WALL PANEL	CHAMPAGNE			
6	CMU MASONRY	COUNTY MATERIALS	TBD	<varies>	8"	8"	MATERIAL TO MATCH EXISTING MASONRY ON WEST SIDE OF BUILDING
7	PAINT	-	-	MATCH ADJACENT WALL	-	-	
8	PAINT	-	-	MATCH ADJACENT WALL	-	-	
9	BRICK	COUNTY MATERIALS	HERITAGE COLLECTION	COFFEE	4"	8"	
10	FENCE	ALUMINUM-GUARD COMERCIAL	ASCOT 3 RAIL GUARD	BLACK	-	-	

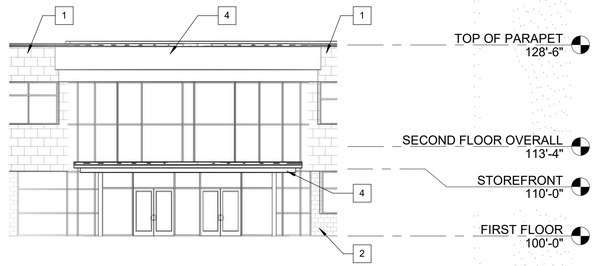


C1 EAST GYM WALL
3/32" = 1'-0"

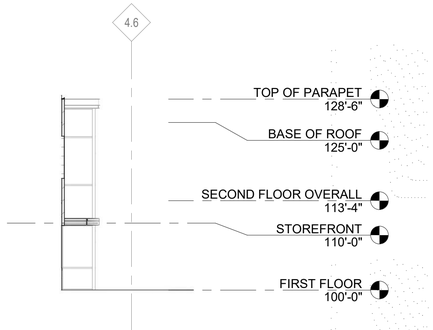


C2 WEST THEATER WALL
3/32" = 1'-0"

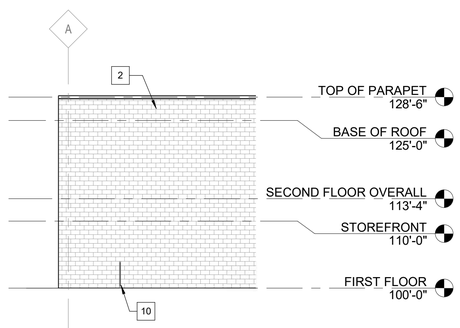
B1 EAST ELEVATION - INSIDE COURTYARD
3/32" = 1'-0"



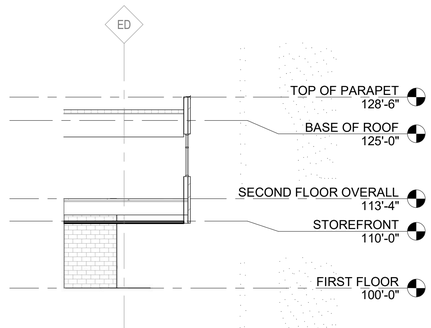
B3 ENTRY VESTIBULE
3/32" = 1'-0"



A1 WEST VESTIBULE ELEVATION
3/32" = 1'-0"



A2 SOUTH WEST ADMIN WALL
3/32" = 1'-0"



A3 SW ATRIUM WALL
3/32" = 1'-0"

PRELIMINARY

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PHASE 2 ADDITION
1802 PANKRATZ STREET
MADISON, WI 53704

Project Status

10.31.2022	UDC FINAL

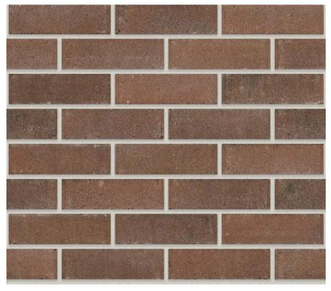
PROJ. #: 22130-01

EXTERIOR ELEVATIONS

A204

A1 BRICK PEIR AT FENCE
1/2" = 1'-0"

CONCRETE MASONRY VENEER
MANUF: BUECHEL STONE CORP.
PRODUCT: HONEY STONES -LIMESTONE 12"x24" PANELS
FINISH: SILVERDALE
URL: https://buechelstone.com/product/silverdale-panels/



CONCRETE MASONRY VENEER
MANUF: COUNTY MATERIALS
PRODUCT: HERITAGE COLLECTION -SMOOTH NF 4"x8"x16" FULL VENEER
FINISH: COFFEE
URL: https://www.countymaterials.com/en/products/masonry/heritage-collection-designer-concrete-brick#gsc.tab=0

PRECAST INSULATED WALL PANEL
MANUF: TBD
FINISH: TBD

ALUMINUM COMPOSITE MATERIAL PANEL
MANUF: ALPOLIC
FINISH: CMR CHAMPAGNE (MATCH EXISTING ACM PANELS)

ULTRA RIBBED WALL PANEL
MANUF: CMG
FINISH: CMG CHAMPAGNE (TO MATCH OTHER CHAMPANGE ELEMENTS ON BUILDING)

PRELIMINARY

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PHASE 2 ADDITION
1802 PANKRATZ STREET
MADISON, WI 53704

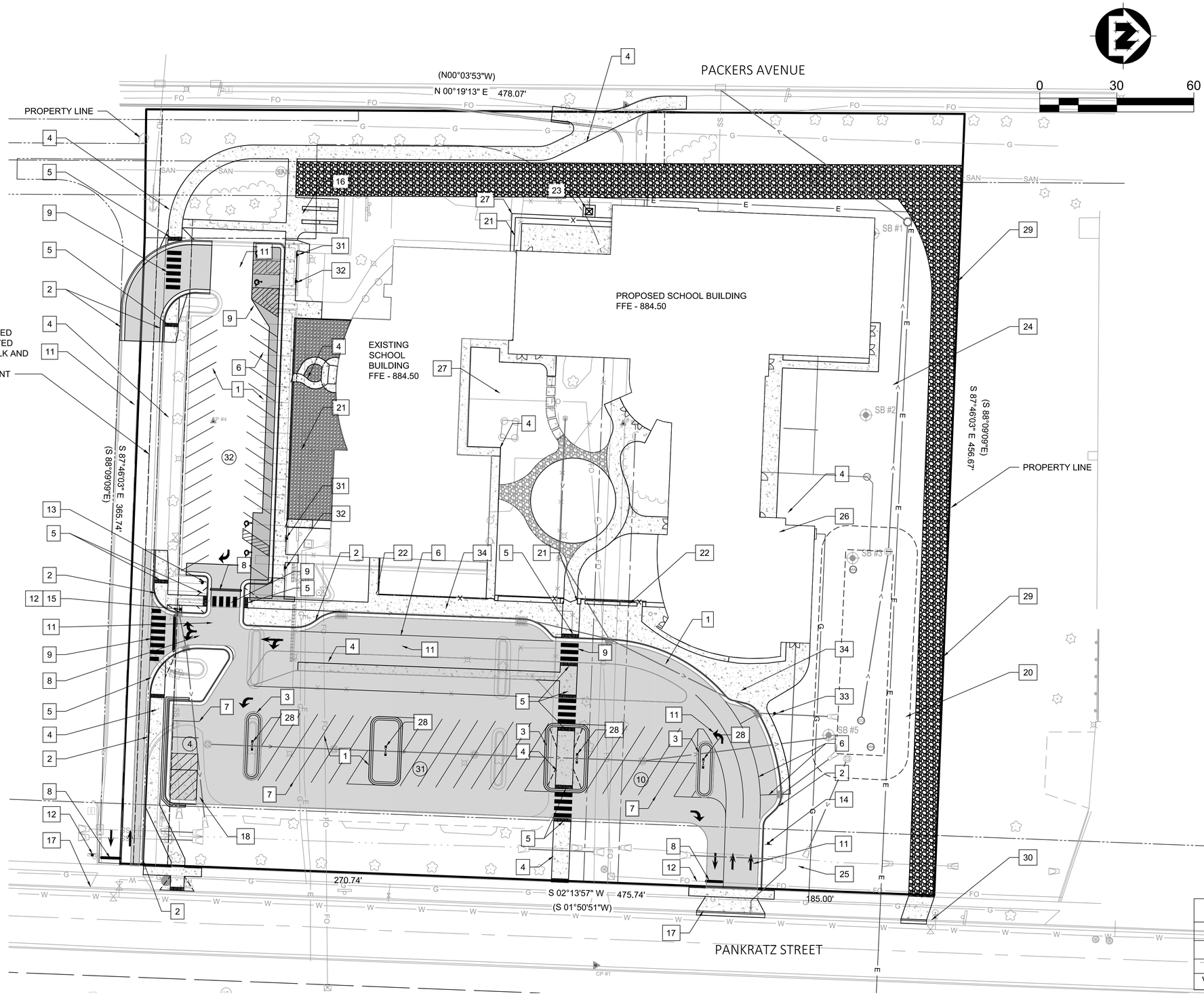
Project Status

10.31.2022	UDC FINAL

PROJ. #: 22130-01

EXTERIOR MATERIALS

X304



LEGEND

1. ASPHALT PARKING LOT/DRIVEWAY
2. CONCRETE CURB AND GUTTER, 30-INCH
3. CONCRETE CURB AND GUTTER, 24 INCH
4. CONCRETE SIDEWALK, 5-INCH
5. DETECTABLE WARNING FIELD
6. PAVEMENT MARKING, EPOXY, 4" YELLOW
7. PAVEMENT MARKING, EPOXY, 6" WHITE
8. PAVEMENT MARKING, EPOXY, STOP BAR, 18" WHITE
9. PAVEMENT MARKINGS, EPOXY, LADDER CROSSWALK, 24" WHITE
10. PAVEMENT MARKING, EPOXY, ACCESSIBLE PARKING SYMBOL, YELLOW
11. PAVEMENT MARKING, EPOXY, ARROW SYMBOL (VARIOUS), YELLOW
12. SIGN, STOP
13. SIGN, YIELD
14. SIGN, BUSES ONLY
15. SIGN, DO NOT ENTER
16. BICYCLE RACK PAD, 20' X 19'. SEE SPACING DETAIL.
17. CONCRETE DRIVEWAY, 6-INCH
18. DUMPSTER ENCLOSURE, 16' X 20'. SEE ARCHITECTURE PLANS FOR ENCLOSURE DETAILS.
19. NOT USED
20. STORM WATER / BIOFILTRATION LOCATIONS
21. FENCE
22. FENCE GATE
23. ELECTRIC TRANSFORMER AND CONCRETE PAD
24. PROPOSED ELECTRIC SERVICE
25. NATURAL GAS SERVICE
26. NATURAL GAS METER
27. LANDSCAPING
28. PARKING LOT POLE LIGHT
29. SANITARY SEWER EASEMENT ACCESS ROAD, SEE TYPICAL SECTION
30. PROFILE CUT EXISTING CURB AND GUTTER FOR EASEMENT ACCESS ROAD
31. ACCESSIBLE PARKING SIGN
32. ACCESSIBLE PARKING SIGN W/ VAN LOADING PLAQUE
33. SIGN, FIRE LANE, NO PARKING
34. FIRE LANE, CONCRETE SIDEWALK, 7-INCH THICK

PARKING SUMMARY	
TOTAL PARKING	76 SPACES
STANDARD PARKING	72 SPACES
ACCESSIBLE PARKING	2 SPACES
VAN ACCESSIBLE PARKING	2 SPACES

LAND USE SUMMARY	
TOTAL AREA	4.91 ACRES
EXISTING BUILDING	0.32 ACRES
PROPOSED BUILDING	0.63 ACRES
ASPHALT PAVEMENT	1.13 ACRES
CONCRETE PAVEMENT	0.46 ACRES
LANDSCAPING	0.25 ACRES
STORM WATER POND	0.17 ACRES
GRASS	1.95 ACRES

NO.	DATE	REVISION	BY

PROJECT DATE: .
DRAWN BY: LPS
DESIGNED BY: BJK
CHECKED BY: Init

PLOT DATE: 10/28/2022 4:16 PM, G:\21\21586\21586000\CADD\Construction Documents\21586000 Overall Proposed Site Plan.dwg

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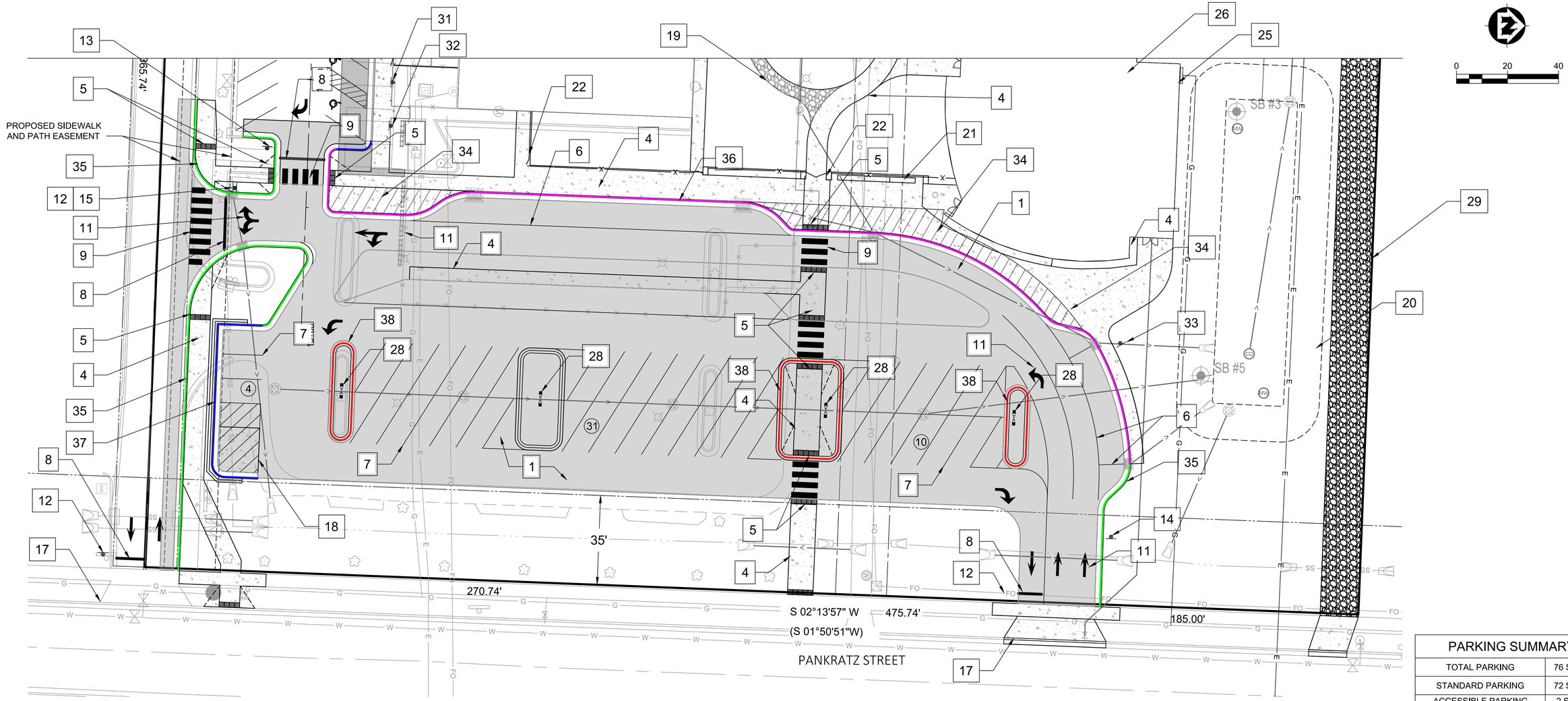
MADISON, WISCONSIN

EXHIBIT - PROPOSED SITE PLAN - OVERALL

PROJECT NO. 21586000
SHEET C300



LEGEND

1. ASPHALT PAVEMENT & BASE. SEE DETAIL
2. CONCRETE, 5-INCH. SEE DETAIL
3. CONCRETE, 7-INCH. SEE DETAIL
4. CONCRETE DUMPSTER PAD, 7-INCH, 16' X 55.5'. SEE ARCHITECTURE PLANS FOR ENCLOSURE DETAILS. SEE DETAIL
5. CONCRETE BICYCLE PAD, 20' X 19'. SEE DETAIL
6. CONCRETE ELECTRIC TRANSFORMER PAD
7. GRAVEL PATH. SEE LANDSCAPING PLANS
8. SANITARY SEWER EASEMENT ACCESS ROAD, SEE TYPICAL SECTION
9. REINSTALL SALVAGED CONCRETE SIDEWALK SQUARES
10. 30-INCH CURB AND GUTTER, STANDARD (GREEN). SEE DETAIL
11. 30-INCH CURB AND GUTTER, ROLLOVER (MAGENTA). SEE DETAIL
12. 30-INCH CURB AND GUTTER, REJECT (BLUE). SEE DETAIL
13. 24-INCH CURB, REJECT (RED). SEE DETAIL
14. DETECTABLE WARNING FIELD
15. PAVEMENT MARKING, EPOXY, 4" YELLOW
16. PAVEMENT MARKING, EPOXY, STOP BAR, 18" WHITE
17. PAVEMENT MARKINGS, EPOXY, CONTINENTAL CROSSWALK, 24" WHITE
18. PAVEMENT MARKING, EPOXY, ACCESSIBLE PARKING SYMBOL, YELLOW
19. PAVEMENT MARKING, EPOXY, ARROW SYMBOL (VARIOUS), YELLOW
20. SIGN, STOP
21. SIGN, YIELD
22. SIGN, BUSES ONLY
23. SIGN, DO NOT ENTER
24. SIGN, FIRE LANE, NO PARKING. SEE DETAIL
25. SIGN, ACCESSIBLE PARKING. SEE DETAIL
26. SIGN, ACCESSIBLE PARKING W/ VAN LOADING PLAQUE. SEE DETAIL
27. BIOFILTRATION BASIN LOCATION. SEE GRADING & UTILITY PLANS
28. FENCE
29. FENCE GATE
30. ELECTRIC TRANSFORMER
31. PROPOSED ELECTRIC SERVICE
32. NATURAL GAS SERVICE
33. NATURAL GAS METER
34. LANDSCAPING. SEE LANDSCAPING PLANS
35. PARKING LOT POLE LIGHT. SEE ARCHITECTURE PLANS

PARKING SUMMARY	
TOTAL PARKING	76 SPACES
STANDARD PARKING	72 SPACES
ACCESSIBLE PARKING	2 SPACES
VAN ACCESSIBLE PARKING	2 SPACES

LAND USE SUMMARY	
TOTAL AREA	4.91 ACRES
EXISTING BUILDING	0.32 ACRES
PROPOSED BUILDING	0.63 ACRES
ASPHALT PAVEMENT	1.13 ACRES
CONCRETE PAVEMENT	0.46 ACRES
LANDSCAPING	0.25 ACRES
STORM WATER POND	0.17 ACRES
GRASS	1.95 ACRES

		NO.	DATE	REVISION	BY
PROJECT DATE: .	DRAWN BY: LPS	.	.	.	.
	DESIGNED BY: BJK	.	.	.	.
	CHECKED BY: Init	.	.	.	.

PLOT DATE: 10/28/2022 3:55 PM, G:\21\21586\21586000\CADD\Construction Documents\21586000 Proposed Site Plan.dwg

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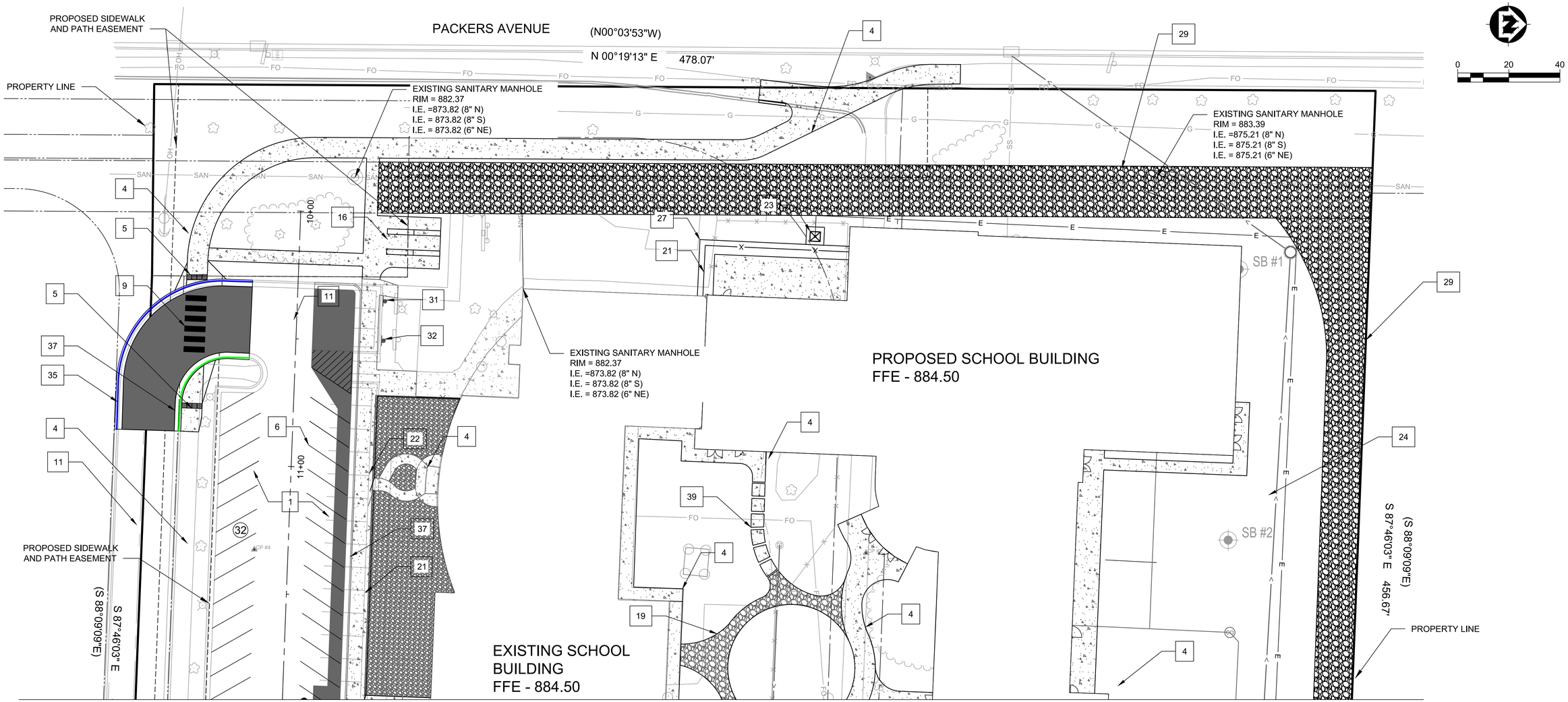
MADISON, WISCONSIN

PROPOSED SITE LAYOUT - EAST

PROJECT NO. 21586000
SHEET C102



LEGEND

1. ASPHALT PARKING LOT/DRIVEWAY. SEE DETAIL.
2. NOT USED
3. NOT USED
4. CONCRETE SIDEWALK, 5-INCH. SEE DETAIL.
5. DETECTABLE WARNING FIELD
6. PAVEMENT MARKING, EPOXY, 4" YELLOW
7. PAVEMENT MARKING, EPOXY, 6" WHITE
8. PAVEMENT MARKING, EPOXY, STOP BAR, 18" WHITE
9. PAVEMENT MARKINGS, EPOXY, LADDER CROSSWALK, 24" WHITE
10. PAVEMENT MARKING, EPOXY, ACCESSIBLE PARKING SYMBOL, YELLOW
11. PAVEMENT MARKING, EPOXY, ARROW SYMBOL (VARIOUS), WHITE
12. SIGN, STOP
13. SIGN, YIELD
14. SIGN, BUSES ONLY
15. SIGN, DO NOT ENTER
16. BICYCLE RACK PAD, 20' X 19'. SEE SPACING DETAIL.
17. CONCRETE DRIVEWAY, 6-INCH
18. CONCRETE DUMPSTER PAD, 16' X 55.5'. SEE ARCHITECTURE PLANS FOR ENCLOSURE DETAILS. SEE DETAIL.
19. CRUSHED GRAVEL PATH
20. BIOFILTRATION BASIN LOCATION
21. FENCE
22. FENCE GATE
23. ELECTRIC TRANSFORMER AND CONCRETE PAD
24. PROPOSED ELECTRIC SERVICE
25. NATURAL GAS SERVICE
26. NATURAL GAS METER
27. LANDSCAPING. SEE LANDSCAPING PLANS.
28. PARKING LOT POLE LIGHT
29. SANITARY SEWER EASEMENT ACCESS ROAD, SEE TYPICAL SECTION.
30. PROFILE CUT EXISTING CURB AND GUTTER FOR EASEMENT ACCESS ROAD
31. ACCESSIBLE PARKING SIGN. SEE DETAIL.
32. ACCESSIBLE PARKING SIGN W/ VAN LOADING PLAQUE. SEE DETAIL
33. SIGN, FIRE LANE, NO PARKING. SEE DETAIL.
34. FIRE LANE, CONCRETE SIDEWALK, 7-INCH THICK. SEE DETAIL.
35. 30-INCH CURB AND GUTTER, STANDARD (GREEN). SEE DETAIL.
36. 30-INCH CURB AND GUTTER, ROLLOVER (MAGENTA). SEE DETAIL.
37. 30-INCH CURB AND GUTTER, REJECT (BLUE). SEE DETAIL.
38. 24-INCH CURB, REJECT (RED). SEE DETAIL.
39. REINSTALL SALVAGED CONCRETE SIDEWALK SQUARES.

		NO,	DATE	REVISION	BY
PROJECT DATE: .	DRAWN BY: LPS	.	.	.	.
	DESIGNED BY: BJK	.	.	.	.
	CHECKED BY: Init	.	.	.	.

PLOT DATE: 10/28/2022 3:55 PM, G:\21\21586\21586000\CADD\Construction Documents\21586000 Proposed Site Plan.dwg

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MADISON, WISCONSIN

PROPOSED SITE LAYOUT - WEST

PROJECT NO. 21586000
SHEET C103

0 20 40

EXISTING SCHOOL BUILDING
FFE - 884.50

PROPOSED SCHOOL BUILDING
FFE - 884.50

SEE SOUTH PARKING LOT ENTRANCE GRADING PLAN

SEE SHEET C206 FOR RETAINING WALL ELEVATIONS

30" CURB, REJECT TC-883.78 EOP-883.20

30" CURB, STANDARD TC-881.49 EOP-881.07

30" CURB, REJECT TC-883.89 EOP-883.31

EOC-881.35

30" CURB, REJECT TC-883.96 EOP-883.38

30" CURB, STABDARD LOW POINT TC-880.96 EOP-880.54

EOC-881.13

30" CURB, STANDARD TC-881.29 EOP-880.87

M-881.00

M-880.90

EOC-880.60

30" CURB, REJECT TC-883.45 EOP-882.54

30" CURB, ROLLOVER HIGH POINT TIE IN-883.81 EOP-883.77

30" CURB, ROLLOVER HIGH POINT TIE IN-883.70 EOP-883.65

30" CURB, ROLLOVER LOW POINT TIE IN-883.48 EOP-883.44

30" CURB, ROLLOVER TIE IN-883.61 EOP-883.56

24" REJECT CURB TC-884.52 EOP-883.98

24" REJECT CURB TC-884.51 EOP-883.97

LOW POINT RIM-883.00

30" CURB, REJECT TC-883.92 EOP-883.34

LOW POINT RIM-883.40

LOW POINT RIM-883.40

M-881.16

M-881.06

EOC-880.74

30" CURB, STANDARD TC-880.63 EOP-880.21

30" CURB, STANDARD TC-880.52 EOP-880.10

EOC-883.67

EOC-883.72

EOC-884.42

EOC-884.04

EOG-883.42

EOG-883.28

LOW POINT RIM-883.15

EOC-883.76

EOC-883.71

EOC-883.57

EOC-884.08

EOC-884.39

EOC-883.57

EOC-883.69

EOC-883.99

EOP-883.90

EOP-884.05

EOC-884.25

EOC-884.25

EOP-884.20

EOP-884.20

EOP-884.03

EOC-884.25

EOP-884.20

EOP-884.14

EOC-883.85

EOC-883.96

EOC-884.25

EOC-884.20

EOP-884.21

EOP-884.06

24" REJECT CURB TC-884.59 EOP-884.05

24" REJECT CURB TC-884.59 EOP-884.05

24" REJECT CURB TC-883.71 EOP-883.17

24" REJECT CURB TC-884.50 EOP-883.96

24" REJECT CURB TC-884.50 EOP-883.96

24" REJECT CURB TC-884.73 EOP-884.19

24" REJECT CURB TC-884.77 EOP-884.23

EOC-884.79

EOC-884.69

EOC-885.03

EOC-884.93

LOW POINT RIM-883.40

EOP-884.14

EOP-883.75

EOP-884.20

EOP-884.17

EOP-883.75

EOP-884.04

EOP-884.07

EOP-883.73

EOP-882.36

M-882.22

M-882.26

M-882.53

M-882.44

30" CURB, STANDARD BOTTOM OF CURB CUT TC-881.66 EOP-881.54

30" CURB, ROLLOVER HIGH POINT TIE IN-884.42 EOP-884.37

EOC-884.40

30" CURB, ROLLOVER TIE IN-883.99 EOP-883.94

EOC-883.79

EOC-883.92

30" CURB, ROLLOVER LOW POINT TIE IN-883.80 EOP-883.75

EOC-884.15

30" CURB, ROLLOVER HIGH POINT TIE IN-884.05 EOP-884.00

EOC-883.90

30" CURB, ROLLOVER LOW POINT TIE IN-883.80 EOP-883.75

30" CURB, STANDARD HIGH POINT TC-884.40 EOP-883.98

30" CURB, STANDARD TC-883.00 EOP-882.58

M-882.78

M-882.75

30" CURB, STANDARD BOTTOM OF CURB CUT TC-881.85 EOP-881.72

SB #3

SB #5

BROAD-CRESTED WEIR
ELEV. = 883.25

PANKRATZ STREET

CP #1

LEGEND

BOT.	BOTTOM OF RETAINING WALL
EOC	EDGE OF CONCRETE
EOG	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
M	MATCH EXISTING ELEVATION
TIE IN	TOP OF ROLL OVER CURB HEAD, SEE DETAIL
TC	TOP OF 6" CURB, SEE DETAIL
TOP	TOP OF RETAINING WALL

GRADE BREAK LINE, HIGH POINT

		NO.	DATE	REVISION	BY
PROJECT DATE: .	DRAWN BY: LPS	.	.	.	.
	DESIGNED BY: BJK	.	.	.	.
	CHECKED BY: Init	.	.	.	.

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MADISON, WISCONSIN

GRADING PLAN - EAST

PROJECT NO. 21586000

SHEET C106

EXISTING RETAINING WALL
TOP OF WALL = 880.25
BOT. OF WALL = 879.85
TAPER EXISTING RETAINING WALL
TOP OF WALL = 880.15
BOT. OF WALL = 879.90
0 20 40
PACKERS AVENUE
M-879.61
M-879.84
EOC-880.60
M-880.97
M-881.11
EOC-881.24
EOC-881.93
EOC-881.88
EOC-880.30
EOC-880.42
EOC-880.82
EOC-882.77
EOC-882.87
30" CURB, REJECT
TC-883.81
EOP-883.23
EOC-882.05
EOC-882.00
EOC-881.38
EOC-882.90
EOC-882.82
EOC-883.45
EOC-883.47
EOC-883.53
EOC-883.55
30" CURB, REJECT
TC-883.90
EOP-883.32
EOC-883.39
EOC-883.41
EOC-883.69
EOC-884.19
EOC-884.50
30" CURB, REJECT
TC-883.52
EOP-882.94
EOC-883.69
EOC-884.02
EOC-883.58
M-883.68
EOC-884.44
EXISTING SCHOOL BUILDING
FFE - 884.50
PROPOSED SCHOOL BUILDING
FFE - 884.50
30" CURB, STANDARD
TC-883.27
EOP-882.85
M-883.76
EOC-884.43
EOC-884.43
EOC-884.15
LOW POINT
RIM-883.35
EOC-884.44
EOC-884.44
EOC-882.92
EOC-883.57
30" CURB, REJECT
TC-883.15
EOP-882.57
EOC-883.54
EOC-884.40
EOC-884.06
30" CURB, REJECT
TC-883.48
EOP-882.90
EOC-884.15
EOG-883.95
30" CURB, STANDARD
TC-883.00
EOP-882.58
30" CURB, REJECT
TC-883.42
EOP-882.84
EOC-883.54
EOC-884.40
EOG-884.08
EOC-883.03
EOG-883.46
EOC-883.84
EOG-883.57
SB #1
SB #2
EOG-883.98
EOC-884.06
EOG-884.13
EOC-884.00
EOG-884.36
30" CURB, REJECT
TC-883.38
EOP-882.80
EOC-884.43
EOC-884.41
EOC-884.32
EOC-884.22
EOC-884.42
EOC-884.42
EOC-884.42
EOC-884.34
EOG-883.80
EOC-884.29
EOC-884.44
EOC-883.45
EOC-884.44
EOG-883.87

LEGEND

BOT.	BOTTOM OF RETAINING WALL
EOC	EDGE OF CONCRETE
EOG	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
M	MATCH EXISTING ELEVATION
TIE IN	TOP OF ROLL OVER CURB HEAD, SEE DETAIL
TC	TOP OF 6" CURB, SEE DETAIL
TOP	TOP OF RETAINING WALL
- - · · - - · · -	GRADE BREAK LINE, HIGH POINT

PROJECT DATE: .		NO.	DATE	REVISION	BY
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DESIGNED BY:	BJK	.	.	.	.
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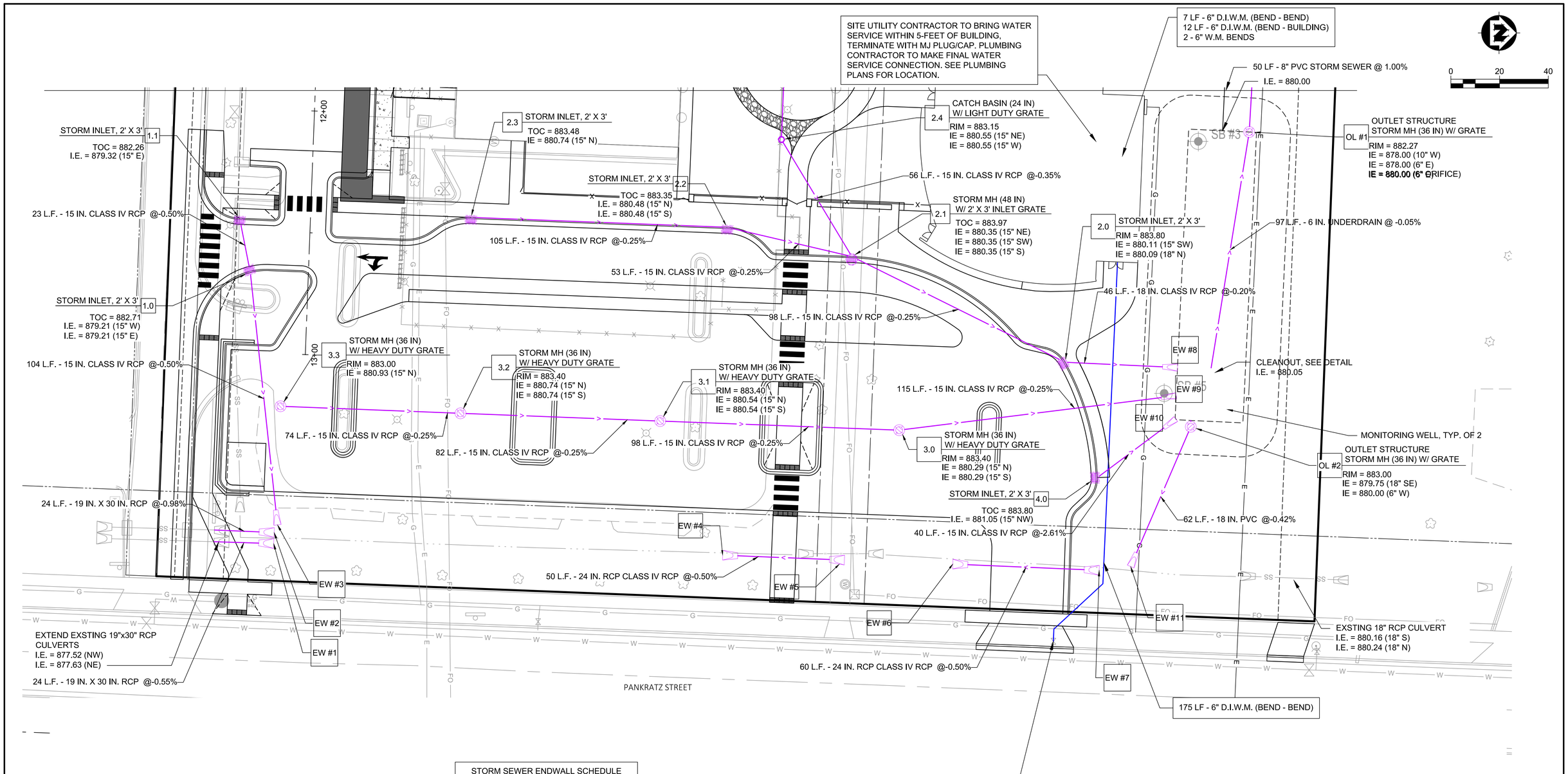
GRADING PLAN - WEST

PROJECT NO. 21586000
SHEET C107



STORM SEWER ENDWALL SCHEDULE		
#	TYPE	INVERT
EW #1	19"x30" ENDWALL W/ GRATE	I.E.= 877.76
EW #2	19"X30" ENDWALL W/ GRATE	I.E.= 877.76
EW #3	15" ENDWALL W/ GRATE	I.E.= 878.69
EW #4	24" ENDWALL W/ GRATE	I.E.= 878.68
EW #5	24" ENDWALL W/ GRATE	I.E.= 878.93
EW #6	24" ENDWALL W/ GRATE	I.E.= 879.15
EW #7	24" ENDWALL W/ GRATE	I.E.= 879.45
EW #8	18" ENDWALL W/ GRATE	I.E.= 880.00
EW #9	15" ENDWALL W/ GRATE	I.E.= 880.00
EW #10	15" ENDWALL W/ GRATE	I.E.= 880.00
EW #11	18" ENDWALL W/ GRATE	I.E.= 879.49

		NO.	DATE	REVISION	BY
PROJECT DATE: .	DRAWN BY: LPS	.	.	.	.
	DESIGNED BY: BJK	.	.	.	.
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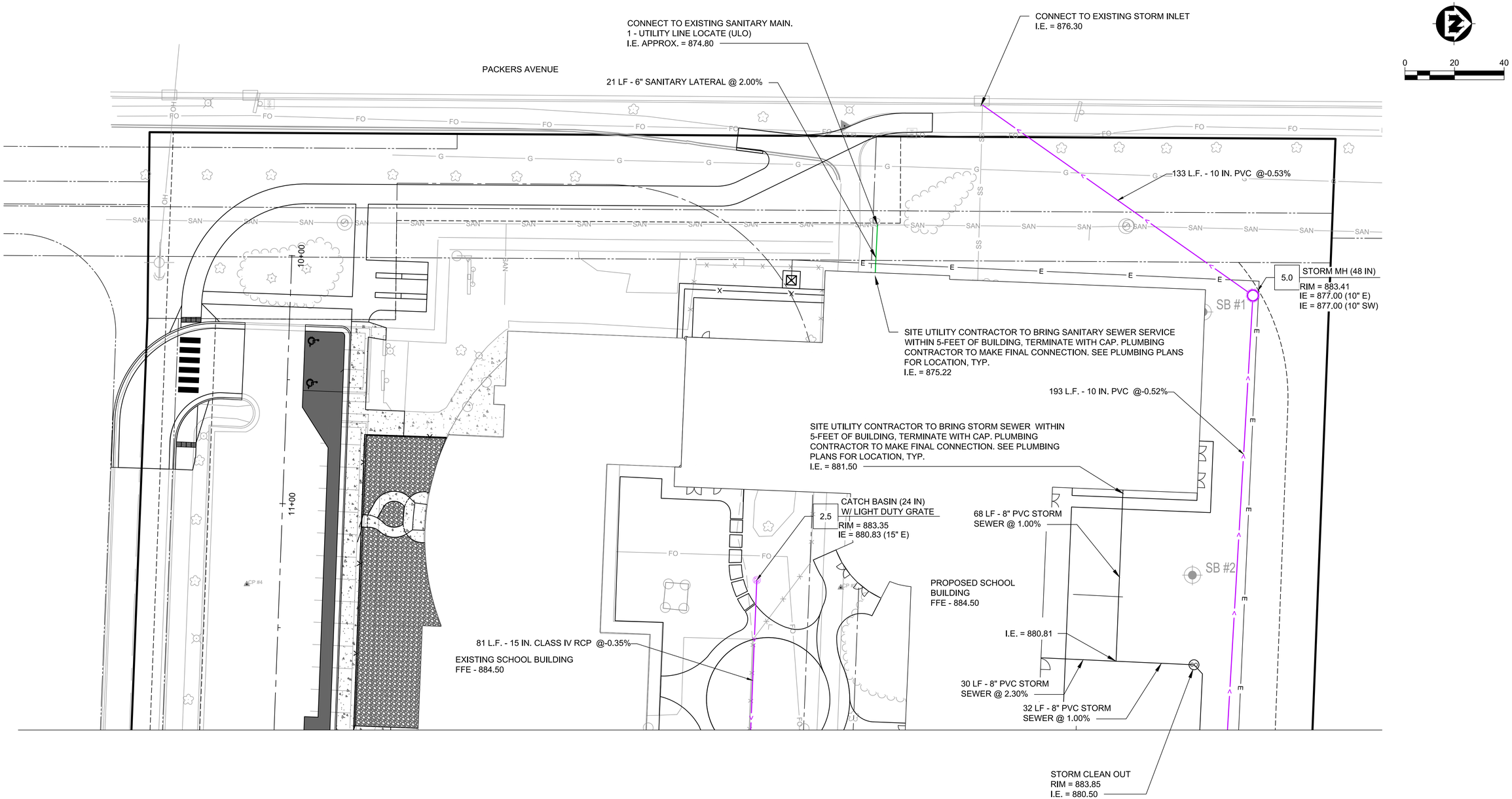
UTILITY PLAN - EAST

PROJECT NO. 21586000
SHEET C108



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	DESIGNED BY: BJK	.	.	.	.
	CHECKED BY: Init	.	.	.	.

PLOT DATE: 10/28/2022 3:59 PM, G:\21\21586\21586000\CADD\Construction Documents\21586000 Utility Plan.dwg

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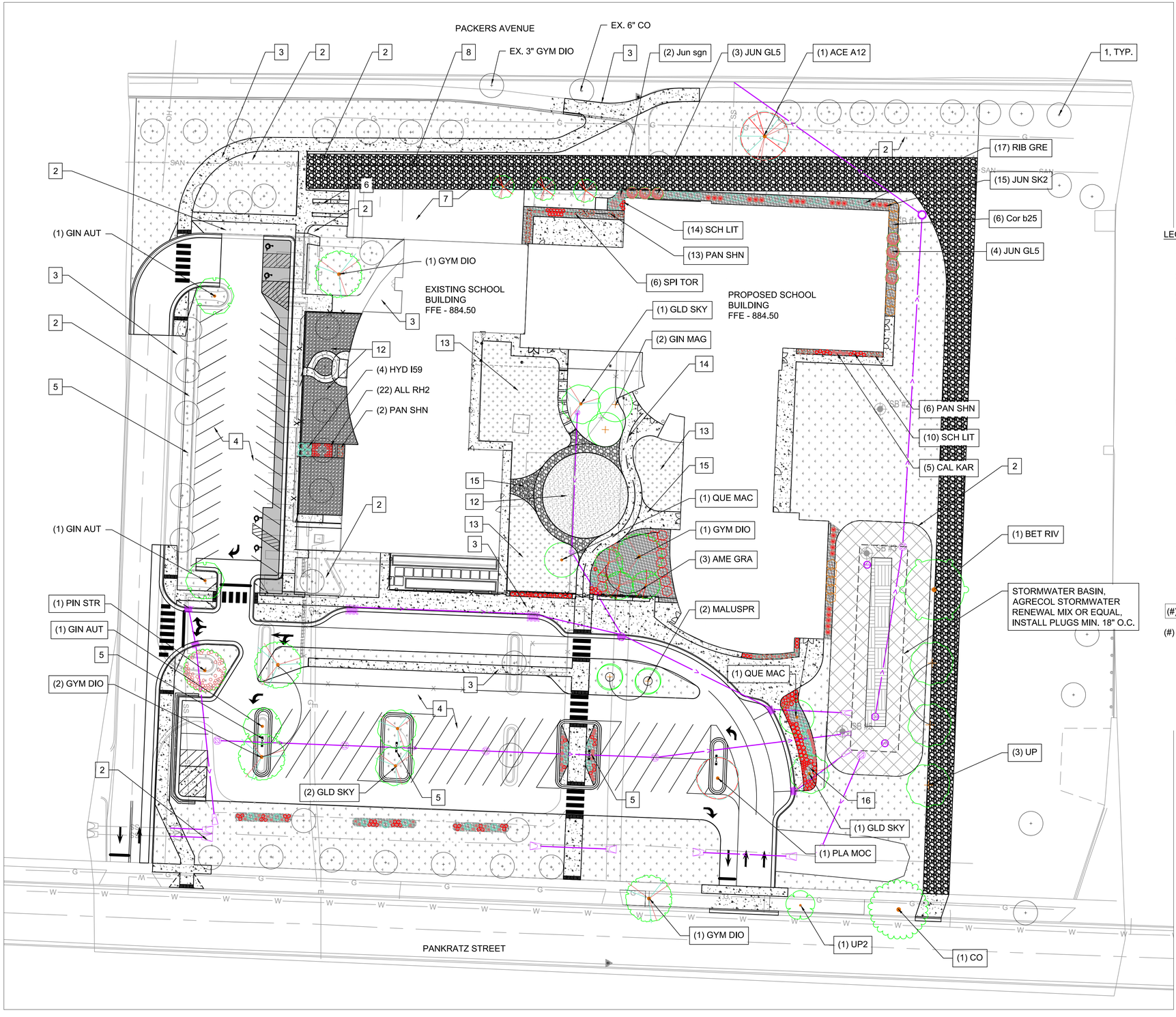
UTILITY PLAN - WEST

PROJECT NO. 21586000
SHEET C109



0 30 60

LEGEND

1. EXISTING TREE, TO REMAIN
2. LAWN
3. CONCRETE SIDEWALK
4. ASPHALT PAVEMENT
5. LAMP POLE
6. BIKE RACKS
7. GARDEN
8. FENCE
9. DUMPSTER ENCLOSURE, 16' X 20'. SEE ARCHITECTURE PLANS FOR ENCLOSURE DETAILS.
10. STORM WATER / BIOFILTRATION LOCATIONS
11. ELECTRIC TRANSFORMER AND CONCRETE PAD
12. PLAY SURFACING (UNITARY)
13. PLAY SURFACING (MULCH/GRAVEL)
14. STAMPED CONCRETE
15. CRUSHED GRAVEL
16. WOOD MULCH

(#) ABC PLANT FOR BID

(#) ABC PHASE 1 PLANT

		NO.	DATE	REVISION	BY
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EXHIBIT - LANDSCAPING PLAN - OVERALL

PROJECT NO. 21586000

SHEET C301

0 20 40

EXISTING SCHOOL BUILDING
FFE - 884.50

PROPOSED SCHOOL
BUILDING
FFE - 884.50

(1) GIN AUT

(1) PIN STR

(1) GIN AUT

(2) GYM DIO

(2) GLD SKY

(1) QUE MAC

(1) GYM DIO

(3) AME GRA

(2) MALUSPR

(1) QUE MAC

(1) GLD SKY

(1) PLA MOC

(1) BET RIV

STORMWATER BASIN,
AGRECOL STORMWATER
RENEWAL MIX OR EQUAL,
INSTALL PLUGS MIN. 18" O.C.

(3) UP

(1) CO

(1) GYM DIO

(1) UP2

ENLARGEMENT 1

ENLARGEMENT 2

ENLARGEMENT 3

ENLARGEMENT 4

ENLARGEMENT 5

ENLARGEMENT 6

SB #3

SB #5

PANKRATZ STREET

LEGEND

1. EXISTING TREE, TO REMAIN
2. LAWN
3. CONCRETE SIDEWALK
4. ASPHALT PAVEMENT
5. LAMP POLE
6. BIKE RACKS
7. GARDEN
8. FENCE
9. DUMPSTER ENCLOSURE, 16' X 20'. SEE ARCHITECTURE PLANS FOR ENCLOSURE DETAILS.
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13. PLAY SURFACING (MULCH/GRAVEL)
14. STAMPED CONCRETE
15. CRUSHED GRAVEL
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(#) ABC PLANT FOR BID

(#) ABC PHASE 1 PLANT

		NO.	DATE	REVISION	BY
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LANDSCAPING PLAN - EAST

PROJECT NO. 21586000

SHEET C112

PACKERS AVENUE

0 20 40

1, TYP.
3
(3) JUN GL5
(1) ACE A12
(2) Jun sgn
(14) SCH LIT
(13) PAN SHN
(6) SPI TOR
8
16
(17) RIB GRE
(15) JUN SK2
(6) Cor b25
(4) JUN GL5
2
6
7
(1) GYM DIO
(1) GIN AUT
EXISTING SCHOOL BUILDING
FFE - 884.50
PROPOSED SCHOOL BUILDING
FFE - 884.50
12
(4) HYD I59
(22) ALL RH2
(2) PAN SHN
(1) GLD SKY
(2) GIN MAG
13
14
15
12
(6) PAN SHN
(10) SCH LIT
(5) CAL KAR
SB #1
SB #2
4
5

LEGEND

1. EXISTING TREE, TO REMAIN
2. LAWN
3. CONCRETE SIDEWALK
4. ASPHALT PAVEMENT
5. LAMP POLE
6. BIKE RACKS
7. GARDEN
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14. STAMPED CONCRETE
15. CRUSHED GRAVEL
16. WOOD MULCH

(#) ABC PLANT FOR BID

(#) ABC PHASE 1 PLANT

		NO.	DATE	REVISION	BY
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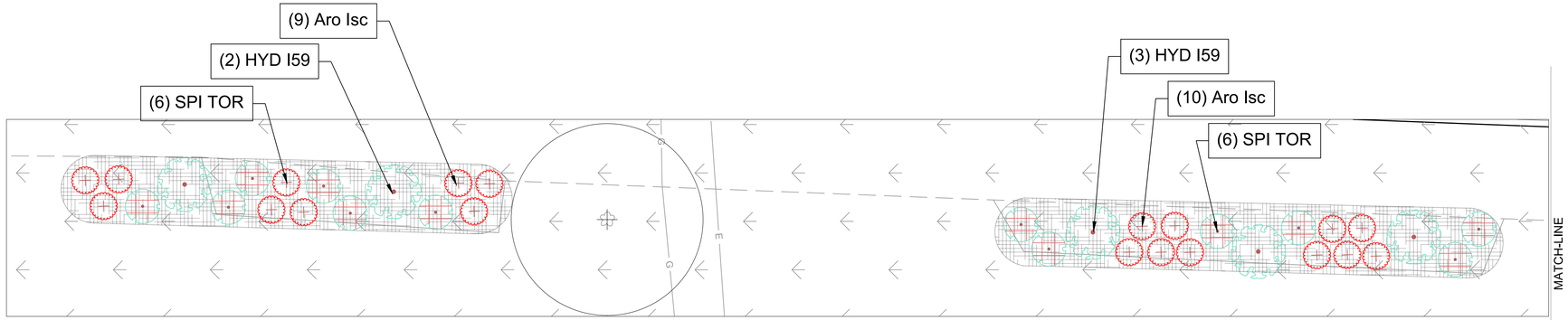
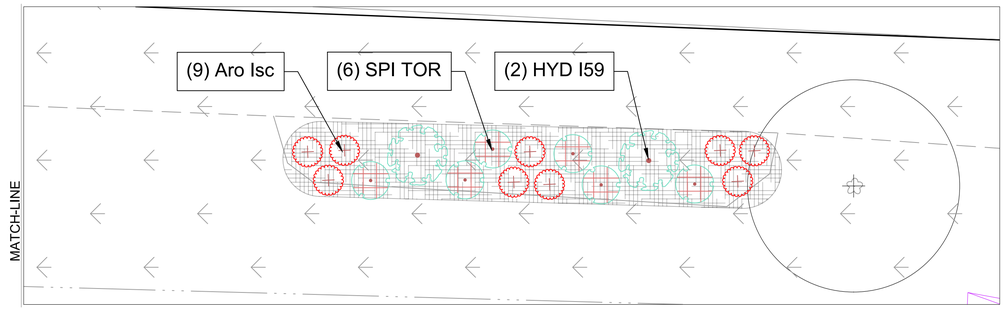
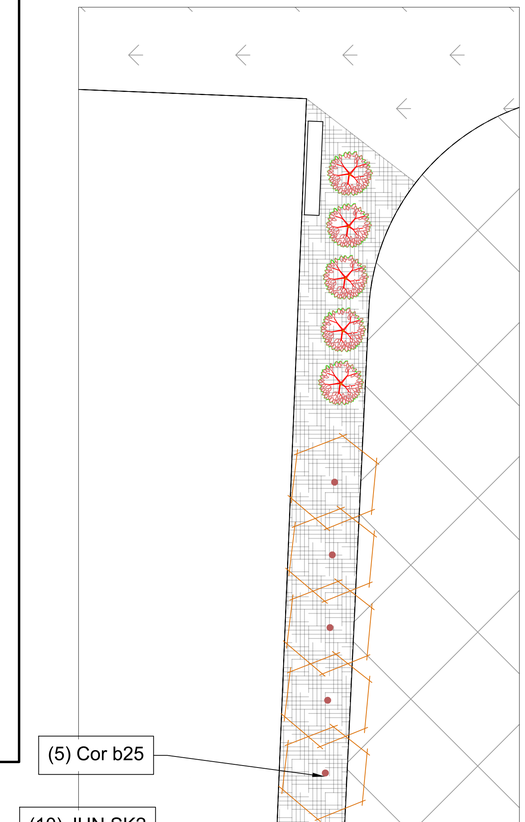
LANDSCAPING PLAN - WEST

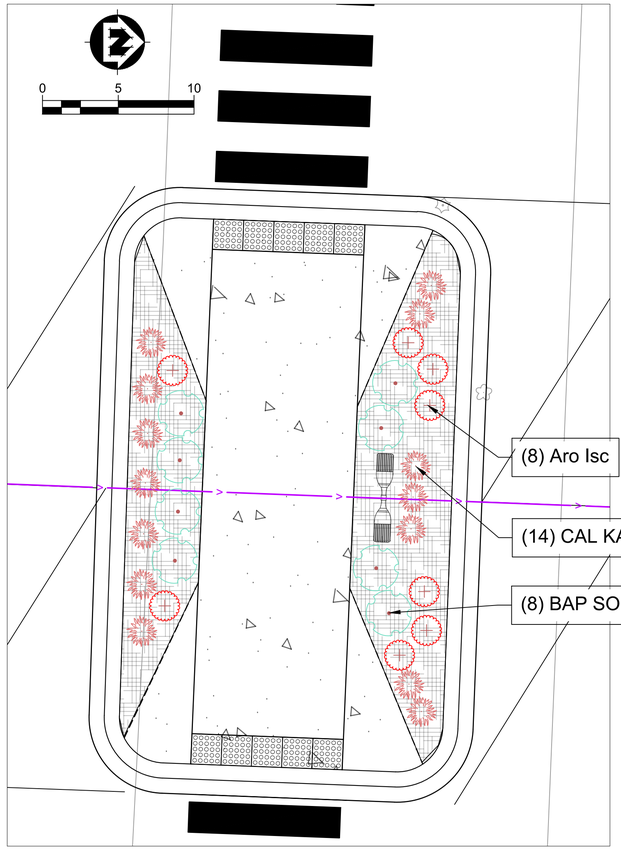
PROJECT NO. 21586000
SHEET C113



1 C114 **LANDSCAPE ENLARGEMENT 1**

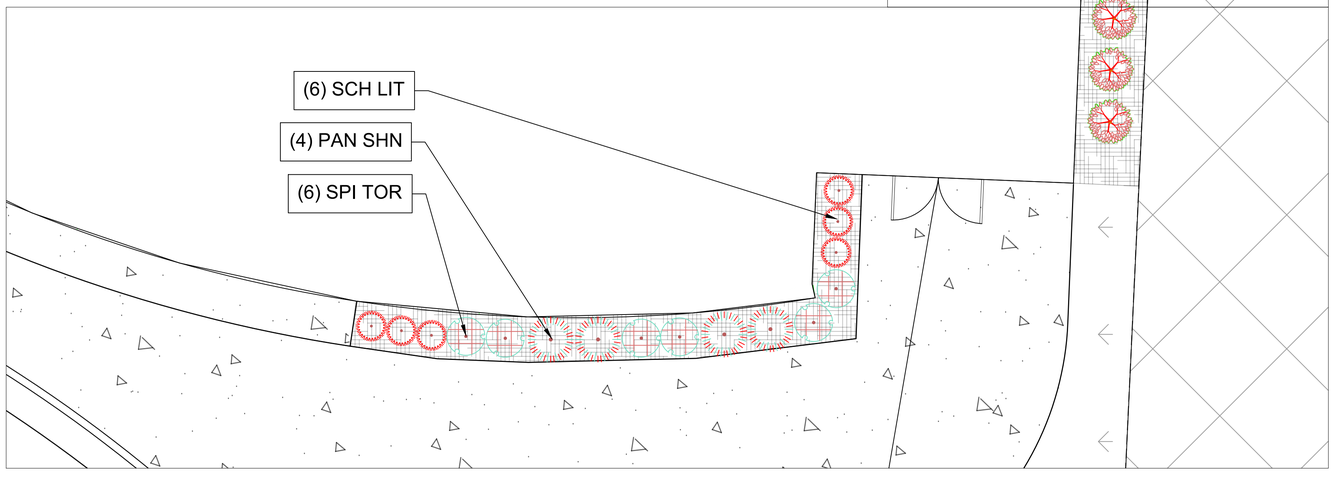


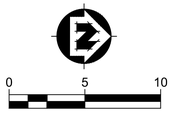




2 C114 **LANDSCAPE ENLARGEMENT 2**

3 C114 **LANDSCAPE ENLARGEMENT 3**





		NO.	DATE	REVISION	BY
PROJECT DATE: .	DRAWN BY: LPS	.	.	.	.
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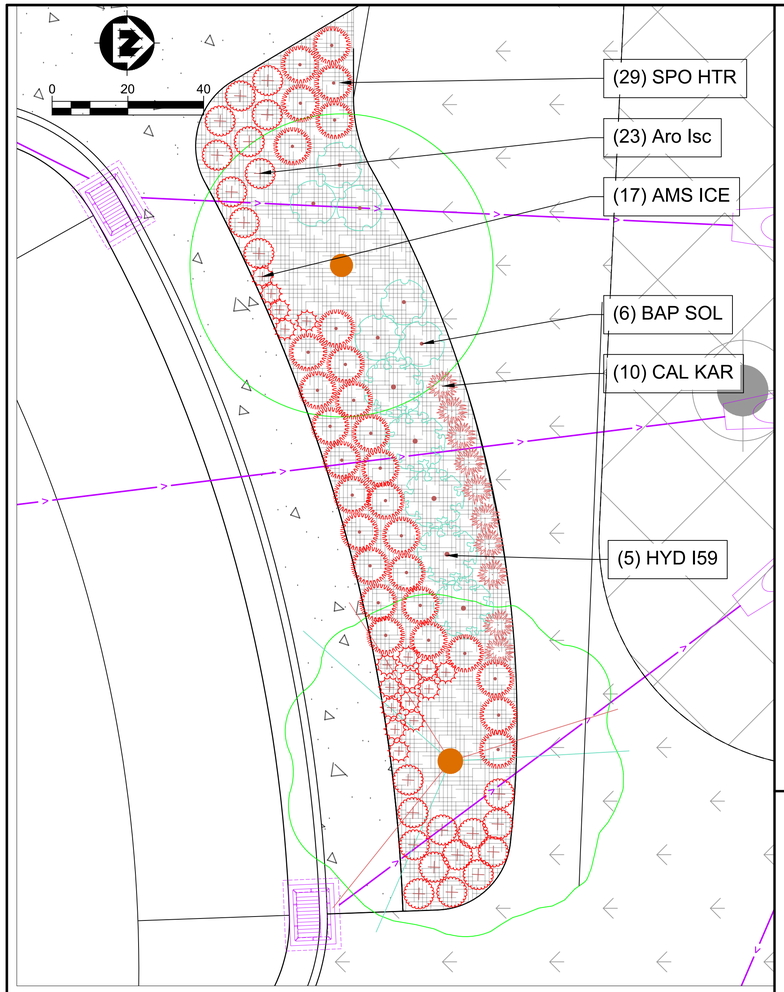
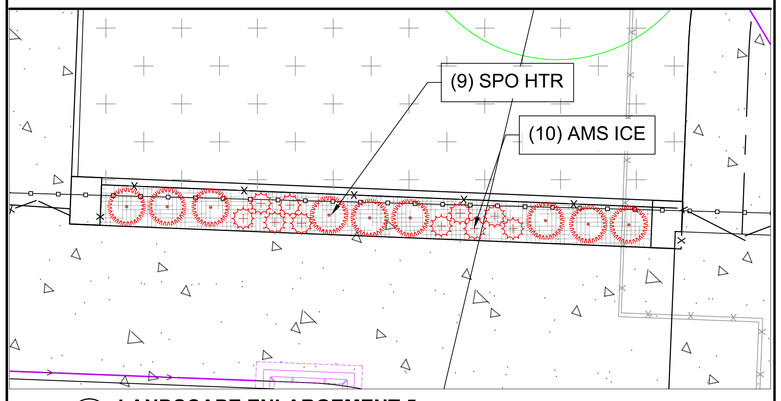
MADISON, WISCONSIN

LANDSCAPING PLAN - ENLARGEMENTS

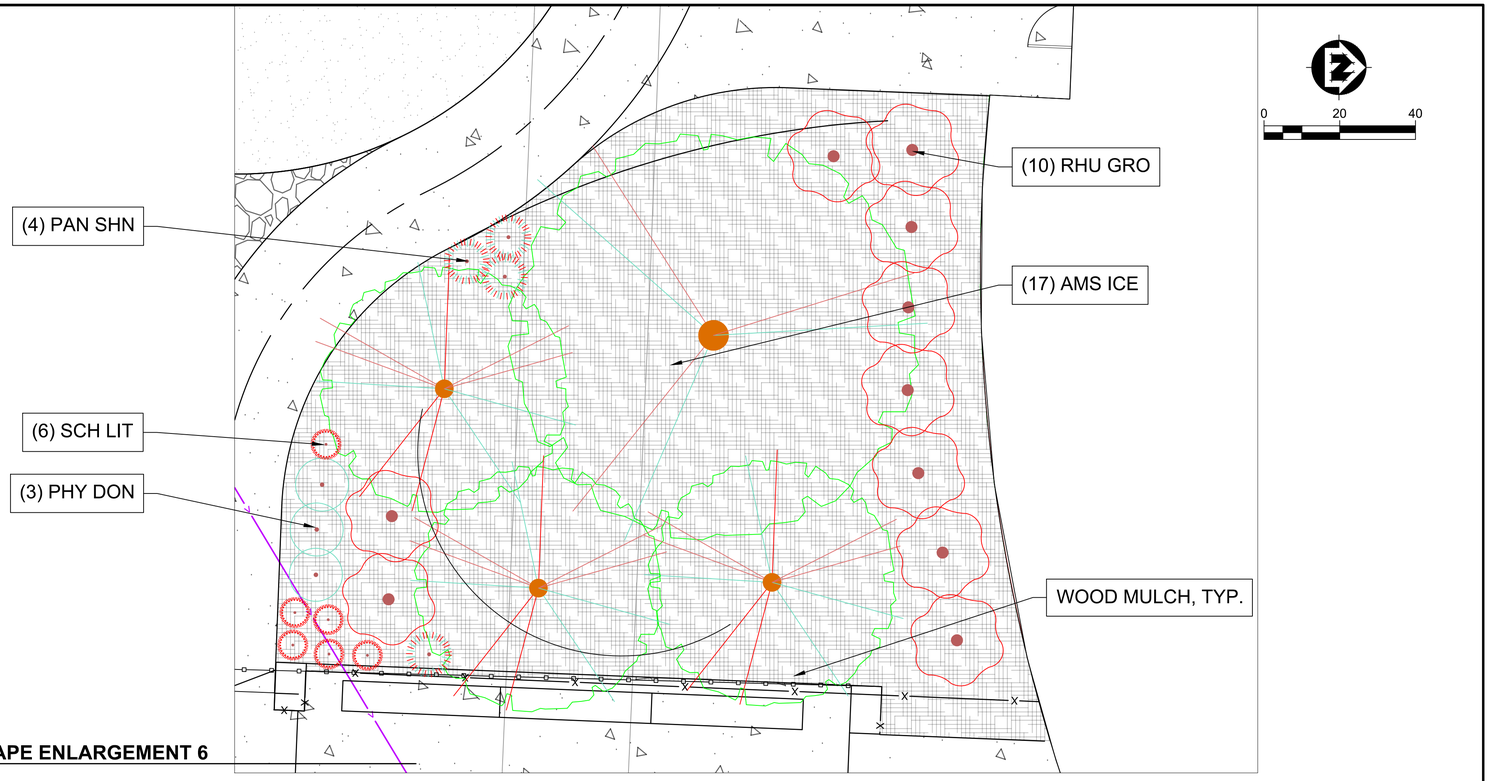
PROJECT NO. 21586000
SHEET C114



1 C115 **LANDSCAPE ENLARGEMENT 4**



2 C115 **LANDSCAPE ENLARGEMENT 5**



3 C115 **LANDSCAPE ENLARGEMENT 6**

PLANT SCHEDULE

TREES

Code	Botanical	Common	Size	Container	Notes	Quantity	Points Ea.	Total
ACE A12	*ACER X FREEMANII `JEFFSRED`*	AUTUMN BLAZE\U+00AE MAPLE	2.5" CAL.	B&B		1	35	35
CO	*CELTIS OCCIDENTALIS*	COMMON HACKBERRY	1.5"	B&B		1	35	35
GIN MAG	*GINKGO BILOBA 'MAGYAR'*	MAGYAR MAIDENHAIR TREE	2.0" CAL.	B&B		3	15	45
MALUSPR	*MALUS`PROFUSION`*	PROFUSION CRABAPPLE	1.5" CAL.	B&B		2	15	30
QUE MAC	*QUERCUS MACROCARPA*	BURR OAK	3" CAL.	B&B		2	35	70
BET RIV	*BETULA NIGRA*	RIVER BIRCH	8'	B&B	MultiStem	1	15	15
GIN AUT	*GINKGO BILOBA `AUTUMN GOLD` TM*	MAIDENHAIR TREE	2" CAL.	B&B	PHASE 1	1 (2)	35	105
GLD SKY	*GLEDITSIA TRIACANTHOS INERMIS `SKYCOLE`*	SKYLINE HONEYLOCUST	2.5" CAL.	B&B		4	35	140
GYM DIO	*GYMNOCLADUS DIOICA `ESPRESSO`*	KENTUCKY COFFEETREE	2.5" CAL.	B&B	PHASE 1	4 (1)	35	175
PLA MOC	*PLATANUS X ACERIFOLIA 'MORTON CIRCLE`*	EXCLAMATION! LONDON PLANE TREE	2.5" CAL.	B&B		1	35	35
UP2	*ULMUS 'NEW HORIZON'*	NEW HORIZON ELM	1.5"	B&B		1	15	15
UP	*ULMUS X 'MORTON GLOSSY' TM*	TRIUMPH ELM	2.5" CAL.	B&B		3	35	105
AME GRA	*AMELANCHIER X GRANDIFLORA `AUTUMN BRILLIANCE`*	`AUTUMN BRILLIANCE` SERVICEBERRY	6'	B&B	MultiStem	3	15	45
MAL PRA	*MALUS X `PRAIRIFIRE`*	PRAIRIFIRE CRAB APPLE	1.5" CAL.	B&B		3	15	45
PIN STR	*PINUS STROBUS*	WHITE PINE	6'	B&B		1	35	35

SHRUBS

Code	Botanical	Common	Size	Container		Quantity	Points Ea.	Total
Aro Isc	*ARONIA MELANOCARPA 'UCONNAM165' TM*	LOW SCAPE MOUND BLACK CHOKEBERRY	3 GAL.	POT		50	3	150
Cor b25	*CORNUS SERICEA `BAILEYI`*	RED TWIG DOGWOOD	3 GAL.	POT		11	3	33
Hyd I59	*HYDRANGEA PANICULATA 'SMHPLQF' TM*	LITTLE QUICK FIRE PANICLE HYDRANGEA	3 GAL.	POT	PHASE 1	12 (4)	3	48
PHY DON	*PHYSOCARPUS OPULIFOLIUS `DONNA MAY` TM*	LITTLE DEVIL NINEBARK	3 GAL.	POT		3	3	9
RHU GRO	*RHUS AROMATICA `GRO-LOW`*	GRO-LOW FRAGRANT SUMAC	3 GAL.	POT		10	3	30
RIB GRE	*RIBES ALPINUM `GREEN MOUND`*		3 GAL.	POT		17	3	51
SPI TOR	*SPIRAEA BETULIFOLIA `TOR`*	BIRCHLEAF SPIREA	3 GAL.	POT		30	3	90
Jun sgn	*JUNIPERUS CHINENSIS `SARGENTII`*	SARGENT JUNIPER	3 GAL.	POT		2	4	8
JUN SK2	*JUNIPERUS SCOPULORUM `SKYROCKET`*	SKYROCKET JUNIPER	5'	B&B		25	10	250
JUN GL5	*JUNIPERUS VIRGINIANA `GLAUCA`*	EASTERN RED CEDAR	5'	B&B		7	10	70

PERENNIALS

Code	Botanical	Common	Size	Container		Quantity	Points Ea.	Total
ALL RH2	*ALLIUM LUSITANICUM `SUMMER BEAUTY`*	SUMMER BEAUTY ORNAMENTAL ONION	1 GAL.	POT	PHASE 1	0 (22)	2	44
AMS ICE	*AMSONIA X `BLUE ICE`*	BLUE ICE BLUESTAR	1 GAL.	POT		27	2	54
BAP SOL	*BAPTISIA X `SOLAR FLARE`*	SOLAR FLARE FALSE INDIGO	1 GAL.	POT		14	2	28
CAL KAR	*CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER`*	FEATHER REED GRASS	1 GAL.	POT		29	2	58
PAN SHN	*PANICUM VIRGATUM `SHENANDOAH`*	SWITCH GRASS	1 GAL.	POT	PHASE 1	27 (2)	2	58
SCH LIT	*SCHIZACHYRIUM SCOPARIUM*	LITTLE BLUESTEM GRASS	1 GAL.	POT		36	2	72
SPO HTR	*SPOROBOLUS HETEROLEPIS `TARA`*	PRAIRIE DROPSEED	1 GAL.	POT		38	2	76

SUBTOTAL PROPOSED	2059
EXISTING TREES	735
TOTAL	2794
DEVELOPED AREA	94,530 SF
POINTS REQUIRED	1580

Note: Phase 1 plantings will be bid and planted before this bid set is built. Therefore phase 1 plantings shall not be considered in this bid set, but will still count for landscape points in overall development. Number outside of parenthesis #(#) is number of plantings to be included in this set.

GENERAL NOTES:

1. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITH TURF - INCLUDING ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS.
2. CONTRACTOR SHALL PROTECT ALL EXISTING TREES NOT CALLED OUT FOR REMOVAL. SEE EROSION CONTROL PLAN SHEET.
3. STREET TREE PROTECTION ZONE FENCING IS REQUIRED. THE FENCING SHALL BE ERECTED BEFORETHE DEMOLITION, GRADING OR CONSTRUCTION BEGINS. THE FENCE SHALL INCLUDE THE ENTIRE WIDTH OF THE TERRACE AND, EXTEND AT LEAST FIVE (5) FEET ON BOTH SIDES OF THE OUTSIDE EDGE OF THE TREE TRUNK. DO NOT REMOVE THE FENCING TO ALLOW FOR DELIVERIES OR EQUIPMENT ACCESS THROUGH THE TREE PROTECTION ZONE.
4. ALL LANDSCAPE PLANTING AREAS ADJOINING TURF TO HAVE METAL EDGING, UNLESS OTHERWISE NOTED.
5. IN ALL AREAS TO RECEIVE PLANTINGS OR SEED CONTRACTOR TO REMOVE ANY EXISTING GRAVEL OR OTHER BASE MATERIAL TO SUBGRADE. SCARIFY SUBGRADE AND BACKFILL WITH TOPSOIL TO FINISH GRADE PRIOR TO PLANTING OR SEEDING. SEE DETAILS FOR SEEDING ALONG PAVEMENT EDGE.

PLAN NOTES:

1. AT LEAST ONE WEEK PRIOR TO STREET TREE PLANTING, CONTRACTOR SHALL CONTACT CITY FORESTRY AT (608) 266-4816 TO SCHEDULE INSPECTION AND APPROVAL OF NURSERY TREE STOCK AND REVIEW PLANTING SPECIFICATIONS WITH THE LANDSCAPER.

NO.	DATE	REVISION	BY

PROJECT DATE: .
DRAWN BY: LPS
DESIGNED BY: BJK
CHECKED BY: Init

PLOT DATE: 10/28/2022 4:05 PM, G:\21\21586\21586000\CADD\Construction Documents\21586000 Landscaping Plan.dwg

MSA
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ISTHMUS MONTESSORI ACADEMY EXPANSION
ISTHMUS MONTESSORI ACADEMY
MADISON, WISCONSIN

LANDSCAPING PLAN - ENLARGEMENTS AND SCHEDULE

PROJECT NO. 21586000
SHEET C115

SITE LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	VOLTAGE	WATTS	LAMP	MOUNTING	NOTES
C	EXTERIOR WALL LIGHT	LITHONIA	OVFL LED 2RH 40K 120 WH HP17	120 V	20 W	LED	WALL	
E	EXTERIOR WALL LIGHT	LITHONIA	WDGE2 LED P3 40K 80CRI VW MVOLT SRM DNAXD	120 V	23 W	LED	WALL	
F	EXTERIOR CANOPY LIGHT	LITHONIA	VCVL LED V4 P3 40K 80CRI T5E MVOLT SRM	120 V	43 W	LED	SURFACE	
G	UPLIGHT/DOWNLIGHT WALL SCONCE	WAC LIGHTING	WS-W2505-AL	120 V	30 W	LED	WALL	PROVIDE 4000K COLOR TEMPERATURE
S1	PARKING LOT POLE LIGHT	LITHONIA	KAD LED 20C 530 40K R5 MVOLT DWHXD	120 V	71 W	LED	POLE	PROVIDE MANUFACTURER'S MOUNTING ACCESSORIES AS REQUIRED. PROVIDE LIGHT POLE, MODEL SSS16B4-4-BH, AS MANUFACTURED BY HAPCO, OR EQUAL.

SITE PHOTOMETRICS SCHEDULE

Calculation Points Name	Average	Minimum	Max. Uniformity Ratio (Avg/Min)
School South	1.16 fc	0.26 fc	4.4
Property Line	0.00 fc	0.00 fc	0.0
Parking Lot	1.56 fc	0.45 fc	3.4
Courtyard	1.89 fc	0.32 fc	5.9
Remaining Site (Not Pedestrain Traffic)	0.00 fc	0.00 fc	0.0

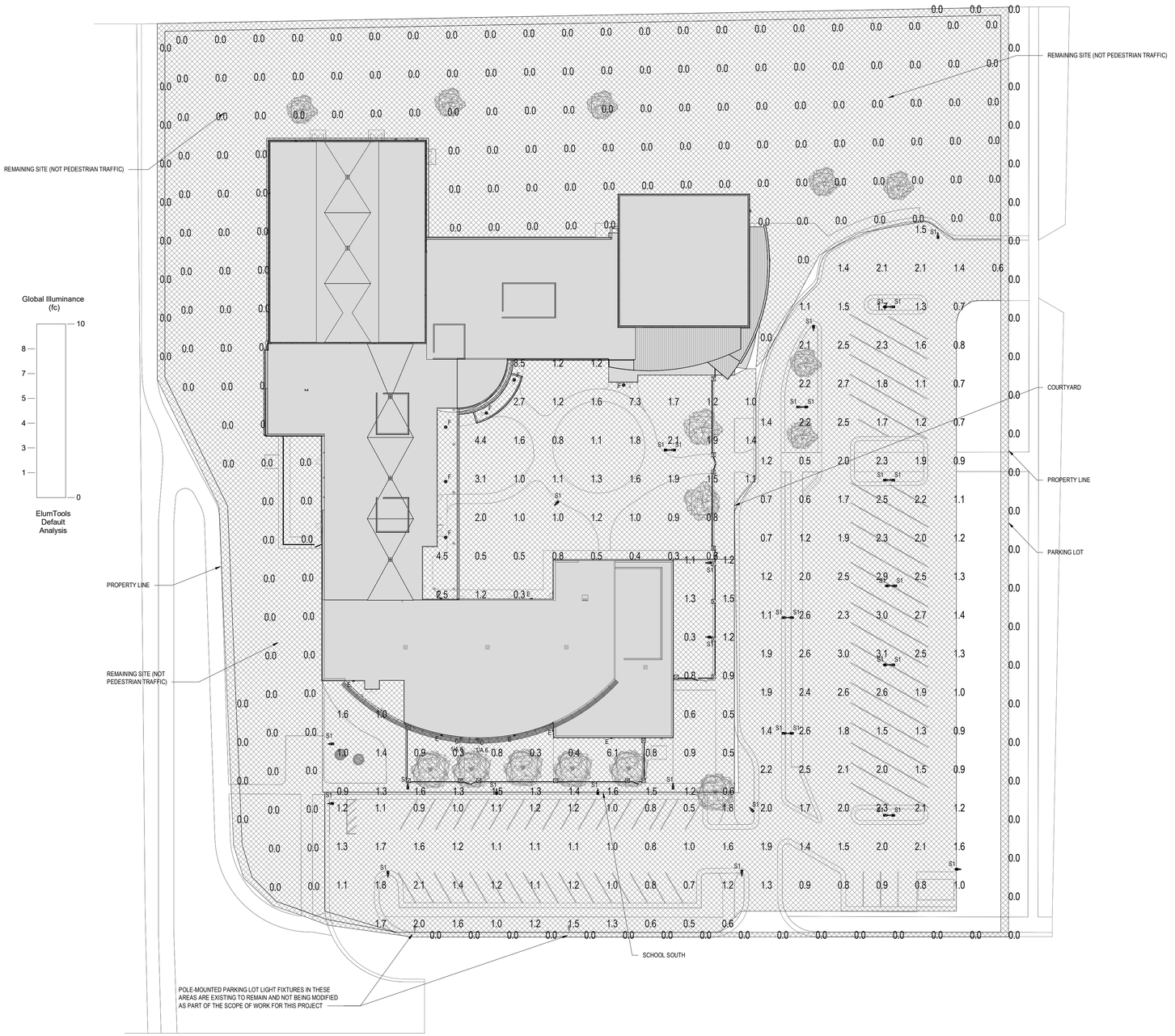
TYPE S1 LIGHT FIXTURES ARE POLE-MOUNTED AT 18'-0" AFG.

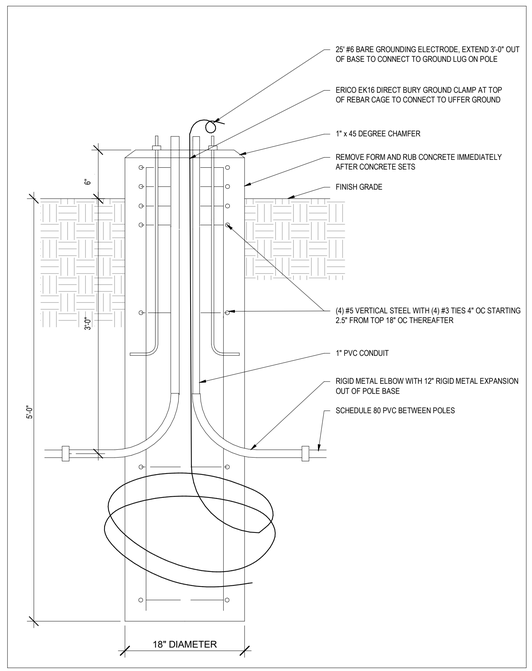
TYPE C LIGHT FIXTURES ARE SURFACE-MOUNTED UNDER THE CANOPY AWNING AT 6'-4" AFG.

TYPE E LIGHT FIXTURES ARE WALL-MOUNTED AT 8'-6" AFG.

TYPE F LIGHT FIXTURES ARE SURFACE-MOUNTED UNDER CANOPY AREAS AT 9'-6" AFG.

TYPE G LIGHT FIXTURES ARE WALL-MOUNTED AT HEIGHTS SHOWN ON THIS DRAWING.





PLAN NORTH

2 POLE BASE DETAIL

NONE

A2 SITE ELECTRICAL PHOTOMETRICS PLAN

1" = 30'-0"

PRELIMINARY

Sketchworks architecture llc

(mp)² STRUCTURAL ENGINEERS
mpsqrd.com

JDR ENGINEERING, INC.

MSA

ISTHMUS MONTESSORI ACADEMY

PHASE 2 ADDITION
1802 PANKRATZ STREET
MADISON, WI 53704

Project Status

PROJ. #:	22130-01

SITE ELECTRICAL PHOTOMETRICS PLAN

AS102

ISTHMUS MONTESSORI ACADEMY

LITHONIA LIGHTING

TYPE C

OVFL 2RH

2-Head LED Security Floodlight

Performance & Value Combined

The OVFL 2RH LED security floodlight provides more light at an attractive cost providing the best combination of performance and value. Delivering 1,770 lumens, at only 20 inputs watts, the OVFL 2RH replaces up to (1) 150W par incandescent lamp offering 87% energy savings. The standard photocell offers a no-hassle, cost effective solution for any application requiring reliable dusk-to-dawn security lighting. This compact form features two heads allowing for more flexibility in application versus traditional single head solutions.

- **Replaces:** Up to (1) 150W PAR lamp
- **Lumens:** 1,770
- **Input Watts:** 20W
- **Voltage:** 120V
- **Color Temperature:** 4000K
- **Expected Service Life:** Approximately 10 years (35,000 hours[1])
- **Mounting:** Easily mounts to ceiling or wall on a recessed junction box
- Ideal for residential and commercial applications

1 LED lifespan based on IESNA LM-80-08 results and calculated per IESNA TM-21-11 methodology.

TYPE C

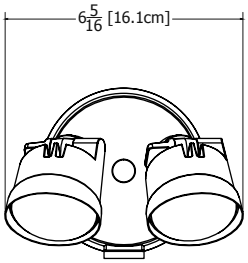
OVFL LED 2HR Floodlight

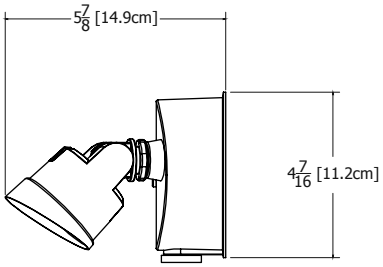
Ordering Information

EXAMPLE: OVFL LED 2RH 40K 120 PE DDB HP17

OVFL

Series	Lightheads	Color Temperature	Voltage	Control Options	Finish
OVFL LED LED Floodlight	**2RH** 2 Heads, Round	**40K** 4000K[1]	**120** 120V	**PE** PE 120V Button Photocell	**DDB HP17** Dark Bronze **WH HP17** White





Need more out of your LED luminaires?

You replace

150W PAR Incandescent
150 Watts

You save

$52 per year or 87% energy savings[2]

You win

Luminaire pays for itself in less than 1 year!

Notes

1 Correlated Color Temperature (CCT) shown is nominal per ANSI C78,377-2008.
2 Based on 10 hours operation per day and energy costs of $.11 per kWH. Savings from energy only, not including maintenance costs.

Visit www.lithonia.com for more information

WDGE2 LED

Architectural Wall Sconce
Visual Comfort Optic

Buy American

Catalog Number

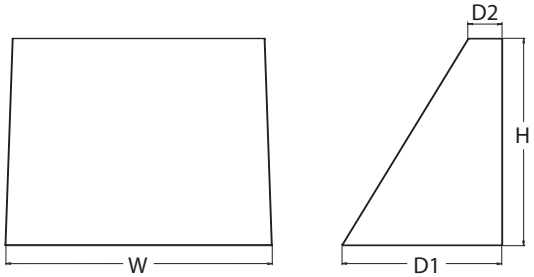
Notes

Type TYPE E

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

Specifications

Depth (D1): 7"
Depth (D2): 1.5"
Height: 9"
Width: 11.5"
Weight: (without options) 13.5 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 delivers up to 6,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package		Color Temperature		CRI	Distribution		Voltage	Mounting	
WDGE2 LED	P1[1]	P1SW	27K	2700K	80CRI	VF	Visual comfort forward throw	MVOLT	**Shipped included**	
	P2[1]	P2SW	30K	3000K	90CRI	VW	Visual comfort wide	347[3]	SRM	Surface mounting bracket
	P3[1]	P3SW	35K	3500K				480[3]	ICW	Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[7]
	P4[1]	Door with small window (SW) is required to accommodate sensors. See page 2 for more details.	40K	4000K					**Shipped separately**	
	P5[1]		50K[2]	5000K					AWS	3/8inch Architectural wall spacer
									PBBW	Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options

E4WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)
E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)
PE[4]	Photocell, Button Type
DS[5]	Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)
DMG[6]	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.
BAA	Buy America(n) Act Compliant

Standalone Sensors/Controls (only available with P1SW, P2SW & P3SW)

PIR	Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH	Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
PIR1FC3V	Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V	Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls (only available with P1SW, P2SW & P3SW)

NLTAIR2 PIR	nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.
NLTAIR2 PIRH	nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.

See page 4 for out of box functionality

Finish

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

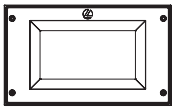
Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE2PBBW DDBXD U	WDGE2 surface-mounted back box (specify finish)

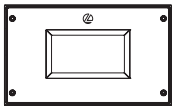
NOTES

1. P1-P5 not available with sensors/controls. Sensors/controls only available with P1SW, P2SW and P3SW.
2. 50K not available in 90CRI
3. 347V and 480V not available with E4WH, E10WH, E20WC or DS.
4. PE not available in 480V or with sensors/controls
5. DS option not available with E4WH, E10WH, E20WC or sensors/controls.
6. DMG option not available with sensors/controls
7. Not qualified for DLC. Not available with emergency battery backup or sensors/controls



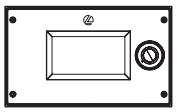
Default configuration with no sensors/controls.

Power Packages: P1, P2, P3, P4, P5



Small Window (SW) configuration

Power Packages: P1SW, P2SW, P3SW



Configuration with sensors/controls

Power Packages: P1SW, P2SW, P3SW

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. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1 / P1SW	10W	VF	1,166	119	0	0	0	1,209	123	0	0	0	1,251	128	0	0	0	1,256	128	0	0	0	1,254	128	0	0	0
		VW	1,197	122	0	0	0	1,241	126	0	0	0	1,284	131	0	0	0	1,289	131	0	0	0	1,286	131	0	0	0
P2 / P2SW	15W	VF	1,878	129	1	0	0	1,947	134	1	0	0	2,015	139	1	0	0	2,023	139	1	0	0	2,019	139	1	0	0
		VW	1,927	133	1	0	0	1,997	137	1	0	0	2,067	142	1	0	0	2,075	143	1	0	0	2,071	143	1	0	0
P3 / P3SW	23W	VF	2,908	129	1	0	0	3,015	134	1	0	0	3,119	138	1	0	0	3,132	139	1	0	0	3,126	139	1	0	0
		VW	2,983	132	1	0	0	3,093	137	1	0	0	3,200	142	1	0	0	3,213	143	1	0	0	3,206	142	1	0	0
P4	35W	VF	4,096	117	1	0	1	4,247	121	1	0	1	4,394	126	1	0	1	4,412	126	1	0	1	4,403	126	1	0	1
		VW	4,202	120	1	0	0	4,357	125	1	0	1	4,508	129	1	0	1	4,526	129	1	0	1	4,517	129	1	0	1
P5	48W	VF	5,567	115	1	0	1	5,772	119	1	0	1	5,972	123	1	0	1	5,996	124	1	0	1	5,984	124	1	0	1
		VW	5,711	118	1	0	1	5,921	122	1	0	1	6,127	126	1	0	1	6,151	127	1	0	1	6,139	127	1	0	1

Electrical Load

Performance Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1 / P1SW	10W	0.082	0.049	0.043	0.038	--	--
	13W	--	--	--	--	0.046	0.033
P2 / P2SW	15W	0.132	0.081	0.072	0.064	--	--
	18W	--	--	--	--	0.056	0.041
P3 / P3SW	23W	0.195	0.114	0.100	0.088	--	--
	26W	--	--	--	--	0.079	0.058
P4	35W	0.302	0.175	0.152	0.134	--	--
	38W	--	--	--	--	0.115	0.086
P5	48W	0.434	0.241	0.211	0.184	--	--
	52W	--	--	--	--	0.157	0.119

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647
E10WH	VF	1,658
	VW	1,701
E20WC	VF	2,840
	VW	2,913

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	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 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	>0.96	>0.95	>0.91

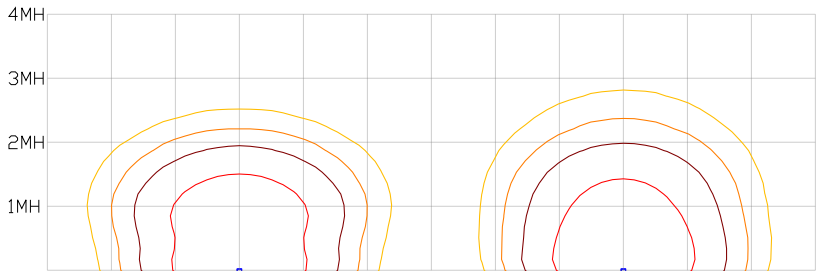
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND

- 0.25 fc
- 0.5 fc
- 1.0 fc
- 3.0 fc

MH = 10ft
Grid = 10ft x 10ft



WDGE2 LED P3 40K 80CRI VW

WDGE2 LED P3 40K 80CRI VF

Emergency Egress Options

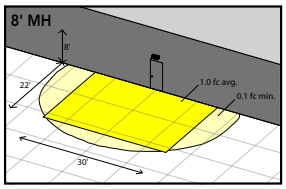
Emergency Battery Backup

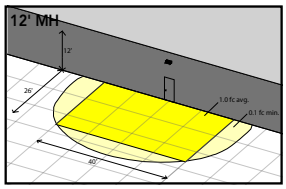
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

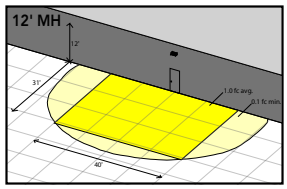
The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E10WH or E20WC and VF distribution.

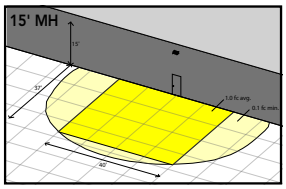
Grid = 10ft x 10ft





WDGE2 LED xx 40K 80CRI VF MVOLT E10WH



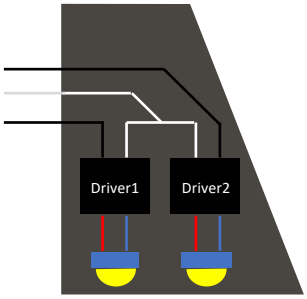


WDGE2 LED xx 40K 80CRI VF MVOLT E20WC

Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



Control / Sensor Options

Motion/Ambient Sensor (PIR_, PIRH_)

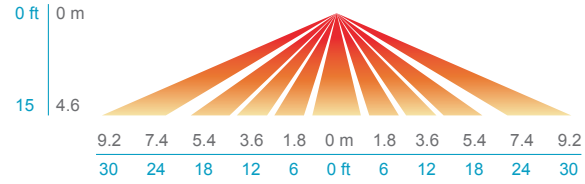
Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

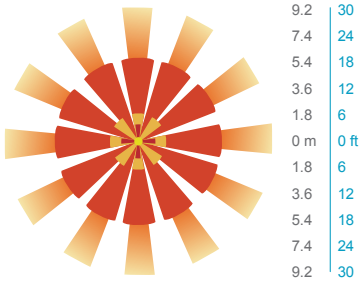
Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

PIR

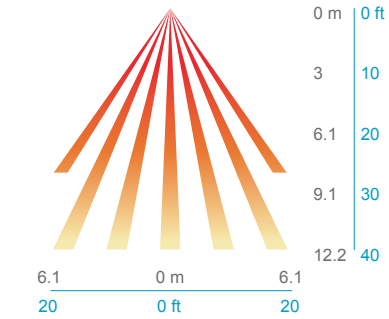
HIGH VIEW



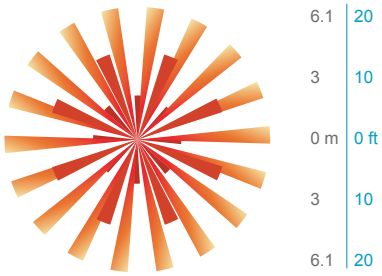


PIRH

SIDE VIEW



TOP VIEW



Option	Dim Level	High Level (when triggered	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec

Mounting, Options & Accessories

NLTAIR2 PIR – nLight AIR Motion/Ambient Sensor

D = 7"

H = 11"

W = 11.5"

PBBW – Surface-Mounted Back Box
Use when there is no junction box available.

D = 1.75"

H = 9"

W = 11.5"

AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE
Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

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 IP66 rating for the luminaire.

FINISH
Exterior painted 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 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
Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE 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 consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

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

VCVL LED
Architectural Luminaire

Buy American

Catalog Number

Notes

Type TYPE F

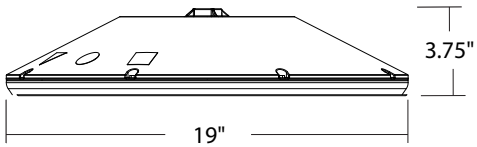
Hit the Tab key or mouse over the page to see all interactive elements.

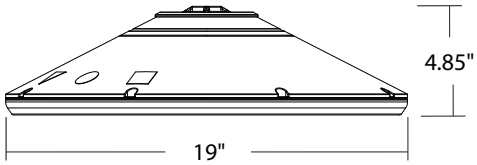
Specifications

Diameter: 19"

Height: 3.75"
(4.85" with Up-Light)

Weight (max, with no options): 18 lbs





A+ Capable options indicated by this color background.

Introduction

The VCVL LED, Visually Comfortable Versatile Luminaire, is designed to bring glare control, optical performance and energy savings into one package. The recessed lens design of VCVL LED minimizes high angle glare, while its precision molded acrylic lens eliminates LED pixilation and delivers uniform distribution. The dedicated up-light module option reduces the contrast between the luminaire and the ceiling creating a more visually comfortable environment.

Ordering Information

EXAMPLE: VCVL LED V4 P4 40K 70CRI T5M MVOLT AC6 DNAXD

VCVL LED

Series	LED Light Engines	Package	Color temperature	Color Rendering Index	Distribution	Voltage		Mounting
VCVL LED	V4[1] 4 Light Engines	P1[1]	30K 3000 K	70CRI	T5E Concentrated	MVOLT	For ordering with fuse	**Shipped included**
	V8[1] 8 Light Engines	P2[1]	35K 3500 K	80CRI	T5M Medium	347	120	PM Pendant mount standard (24-inch length supply leads)
		P3[1]	40K 4000 K		T5W Wide	480	208	SRM Surface mount (24-inch length supply leads)
		P4[1]	50K 5000 K		T5R[2] Rectangular		240	ARM Arm mount (use RSXWBA accessory to mount to a wall)
		P5[1]					277	
		P6[1]					347	**Shipped separately**
		P7[1]					480	AC6 Aircraft cable with white 6' cord (adjustable, max 6')
								HC5 Male cast hook with black 5' cord (sealed, no plug)

Options

Shipped installed

UPL1	Up-Light: 500 lumens
UPL2	Up-Light: 700 lumens
E8WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (8W, -20°C min)[3,4,5]
E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)[3,4,5]
HA	High ambient (50°C, only P1-P4)
SF	Single fuse (120V, 277V, 347V)
DF	Double fuse (208V, 240V, 480V)
SPD10KV	10KV Surge Pack
LDS36	36in (3ft) lead length
LDS72	72in (6ft) lead length
LDS108	108in (9ft) lead length
DMG	External 0-10V leads (no controls)[6]

Shipped Separately

WG	Wire Guard

Standalone Sensors/Controls[2]

PIR	Motion/ambient sensor for 8-15' mounting heights
PIRH	Motion/ambient sensor for 15-30' mounting heights
PIR3FC3V	Motion/ambient sensor for 8-15' mounting heights, pre programmed to 3fc and 35% light output
PIRH3FC3V	Motion/ambient sensor for 15-30' mounting heights, pre programmed to 3fc and 35% light output
PIR3FC3V924	UL924 Listed motion/ambient sensor for emergency circuit for 8-15' mounting heights, pre programmed to 3fc and 35% light output[7]
PIRH3FC3V924	UL924 Listed motion/ambient sensor for emergency circuit for 15-30' mounting heights, pre programmed to 3fc and 35% light output[7]

Networked Sensors/Controls[2]

NLTAIR2 PIR	nLIGHT AIR Wireless enabled motion/ambient sensor for 8-15' mounting heights
NLTAIR2 PIRH	nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights
NLTAIR2 PIR924	nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 8-15' mounting heights[8]
NLTAIR2 PIRH924	nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 15-30' mounting heights[8]

Finish *(required)*

DWHXD	White
DNAXD	Natural aluminum
DDBXD	Dark bronze
DBLXD	Black

Ordering Information Cont.

Accessories
Ordered and shipped separately.

VCPGSRM U	Surface mount kit, with no Up-Light
VCPGUSRM U	Surface mount kit, with Up-Light
VCPGWG U	Wire guard
SLVSQ	Quick mount pendant swivel kit, square
SLVRD	Quick mount pendant swivel kit, round
RSXWBA DWHXD U	RSX WBA wall bracket (specify finish)
VCVLSC12	Safety cable 120"
VCVLSC240	Safety cable 240"

NOTES

1 P1-P6 not available with V8. P7 not available with V4.
2 Not available with P7.
3 Not available with 347V, 480V, AC6 or HC5.
4 E8WC and E10WH only rated up to 35°C ambient.
5 E8WC & E10WH only available with P1-P4 packages.
6 DMG option not available with AC6, HC5 and standalone or networked sensors/controls.
7 Power interruption delay >30 milliseconds required for operation. Refer sequence of operations on page 4 for more details.
8 Power interruption delay >200 milliseconds required for operation. Refer sequence of operations on page 4 for more details.

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. Contact factory for performance data on any configurations not shown here.

Performance Package	Watts	Distribution Type	30K (3000K, 70 CRI)		35K (3500K, 70 CRI)		40K (4000K, 70 CRI)		50K (5000K, 70 CRI)	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
P1	27W	T5E	3,581	135	3,670	138	3,815	144	3,876	146
		T5M	3,620	136	3,710	140	3,856	145	3,917	147
		T5W	3,592	135	3,681	139	3,827	144	3,888	146
		T5R	3,464	130	3,550	134	3,690	139	3,749	141
		LANE	3,507	132	3,594	135	3,736	141	3,796	143
P2	34W	T5E	4,577	135	4,691	138	4,876	144	4,954	146
		T5M	4,626	136	4,741	140	4,928	145	5,007	147
		T5W	4,591	135	4,705	139	4,891	144	4,968	146
		T5R	4,427	130	4,537	134	4,716	139	4,791	141
		LANE	4,482	132	4,594	135	4,775	141	4,851	143
P3	43W	T5E	5,808	134	5,952	137	6,187	143	6,286	145
		T5M	5,870	135	6,015	139	6,253	144	6,353	146
		T5W	5,825	134	5,970	138	6,205	143	6,304	145
		T5R	5,617	130	5,757	133	5,984	138	6,079	140
		LANE	5,688	131	5,829	134	6,059	140	6,155	142
P4	56W	T5E	7,391	131	7,575	135	7,874	140	7,999	142
		T5M	7,470	133	7,656	136	7,958	141	8,085	144
		T5W	7,414	132	7,597	135	7,898	140	8,023	143
		T5R	7,149	127	7,326	130	7,615	135	7,737	137
		LANE	7,238	129	7,418	132	7,711	137	7,834	139
P5	82W	T5E	10,189	124	10,442	127	10,854	132	11,027	134
		T5M	10,298	125	10,553	128	10,970	134	11,145	136
		T5W	10,220	124	10,473	128	10,887	133	11,060	135
		T5R	9,855	120	10,099	123	10,498	128	10,665	130
		LANE	9,978	121	10,226	124	10,629	129	10,799	131
P6	108W	T5E	12,878	120	13,197	123	13,719	127	13,937	129
		T5M	13,015	121	13,338	124	13,865	129	14,086	131
		T5W	12,917	120	13,237	123	13,760	128	13,979	130
		T5R	12,455	116	12,764	119	13,268	123	13,480	125
		LANE	12,611	117	12,924	120	13,435	125	13,649	127
P7	122W	T5E	15,503	125	15,887	128	16,515	133	16,778	135
		T5M	15,668	126	16,057	129	16,691	135	16,957	137
		T5W	15,549	125	15,935	129	16,564	134	16,828	136

Up-light Lumen Output

Up-light Option	Watts	Lumens
UPL1	6.5W	519
UPL2	8.5W	715

Lumen Multiplier for 80CRI

CCT	Multiplier
30K	0.926
35K	0.945
40K	0.967
50K	0.965

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	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 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	0.97	0.94	0.89

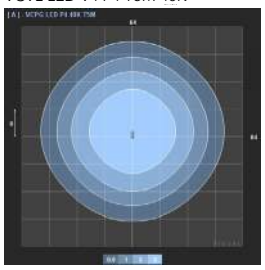
Electrical Load

Power Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	27W	0.22	0.13	0.12	0.10	0.08	0.06
P2	34W	0.28	0.16	0.14	0.13	0.10	0.08
P3	43W	0.37	0.21	0.18	0.16	0.13	0.09
P4	56W	0.48	0.28	0.24	0.21	0.16	0.12
P5	82W	0.68	0.40	0.35	0.30	0.24	0.18
P6	108W	0.91	0.52	0.45	0.39	0.32	0.23
P7	124W	1.03	0.59	0.51	0.44	0.37	0.27

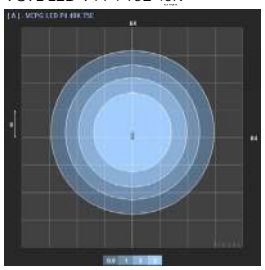
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting VCVL LED homepage.
Tested in accordance with IESNA LM-79 and LM-80 standards

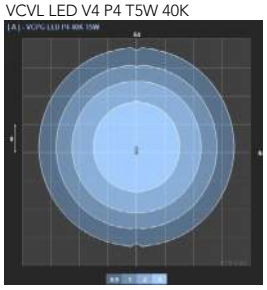
VCVL LED V4 P4 T5M 40K



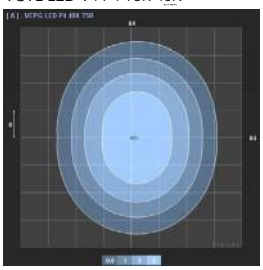
VCVL LED V4 P4 T5E 40K



VCVL LED V4 P4 T5W 40K



VCVL LED V4 P4 T5R 40K



Control/Sensor Options

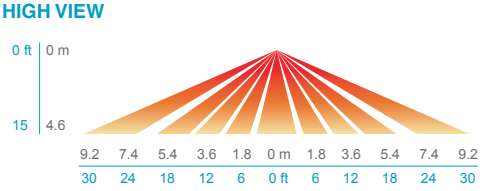
Motion/Ambient Sensor (PIR_, PIRH)

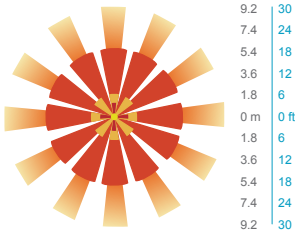
Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

Networked Control (NLTAIR2)

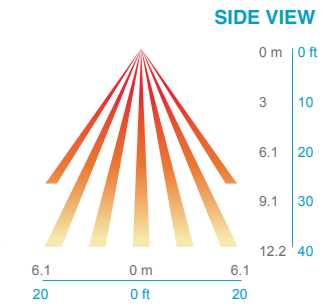
nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

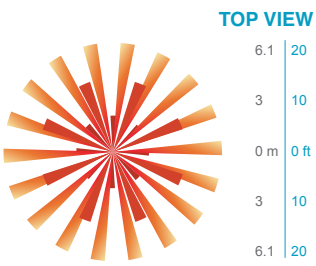
PIR





PIRH





Motion/Ambient Sensor Default Settings

Option	Dim Level	High Level (when triggered)	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR3FC3V or PIRH3FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 3fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec

Sequence of Operations for UL924 Listed Controls/Sensors (PIR3FC3V924, PIRH3FC3V924, NLTAIR2 PIR924, NLTAIR2 PIRH924)

The UL924 listed control/sensor ("device") is designed to provide full light output for 90 minutes following power loss ("Egress Mode"), ignoring both manual and automatic dimming/occupancy/daylight control signals during this time. The sequence of operations is as follows:

- Normal condition: device can dim and turn off the luminaire as normal, in response to automatic and manual control.
- Utility power fails, and luminaire loses power.
- Backup power source activates, transfer switch moves the emergency circuit powering the luminaire onto the backup source, and luminaire regains power.
- The device detects this power interruption, if it is >30ms (for PIR3FC3V924, PIRH3FC3V924) or >200ms (for NLTAIR2 PIR924, NLTAIR2 PIRH924).
- The device ignores all dimming commands and controls the driver to full light output for 90 minutes.
- The device resumes normal dimming controls after 90 minutes.

These UL924 listed controls/sensors are not intended for use with Non-interruptible central emergency power systems. The power interruption, when transferring from normal utility power to emergency backup power, is required for the controller to activate its Egress Mode and provide full light output.

Mounting, Options & Accessories

AC6 – Aircraft Cable

D = 19"
H = 12" - 72"

HC5 – Hook & Cord

D = 19"
H = 8" (no up-light)
or 9.2" (with up-light)

PM – Pendant Mount
(compatible with ¾ NPT, pendant stem provided by others)

D = 19"
H = 4.1" (no p-light)
or 5.3" (with up-light)

PIR & PIRH – Motion/ Ambient sensor

D = 19"
H = 4.6" (no up-light)
or 5.6" (with up-light)

SRM – Surface Mount

D = 19"
H = 4.1"

SRM – Surface Mount with Up-Light

D = 19"
H = 5.3"

ARM – Arm Mount

L = 28"
W = 19"
H = 8"

WG – Wire guard

D = 19"
H = 4.9" (no uplight)
or 5.9" (with up-light)

FEATURES & SPECIFICATIONS

INTENDED USE
The sleek styling and versatility offered by VCVL and VCVL Ultimate (VCVLX) makes them ideal for wide range of applications such as commercial offices, retail spaces, school gymnasiums, large conference rooms or any large open areas. And with VCVL's array of mounting options, you can install them in any building style or architectural design.

CONSTRUCTION
Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is separated from the heat generating light engines and mounted in direct contact with the casting to promote low operating temperatures, higher lumen maintenance and long life. The housing is completely sealed against moisture and environmental contaminants (IP66) and is suitable for hose-down application.

FINISH
Exterior painted 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 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS
Light guide technology provides a diffused light source, reducing glare from direct view of the LEDs. The light source is recessed into the luminaire, further reducing the high angle glare from the luminaire. A combination of precision molded micro prismatic acrylic lenses and back reflectors provide five different photometric distributions that allow you to create uniform distribution, no matter the application. Up-light option comes with a dedicated light engine and custom optic designed to efficiently spread light on to the ceiling, thus reducing the cave effect.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L89/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 6.0 KV surge rating. When ordering the SPD10KV option, a separate 10kV (5kA) surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2). Luminaire is 0-10V dimmable down to 10% or lower.

INSTALLATION
Standard configuration accepts a rigid or free-swinging 3/4" NPT stem for pendant mounting. Aircraft cable and hook & cord options allow the luminaire to be suspended from the ceiling and come with a cord for easy wiring. The surface mount option attaches to a 4x4" recessed or surface mount outlet box using a quick-mount kit (included); kit contains galvanized steel luminaire and outlet box plates and a full pad gasket. Kit has an integral mounting support that allows the luminaire to hinge down for easy electrical connections. Luminaire and plates are secured with set screws. Supply leads are 24" in length as standard. Longer supply leads are available as additional options. PM and SRM can withstand up to a 3.0 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. IP66 rated for outdoor applications. PIR options are rated for wet location. Rated for -40°C minimum ambient.

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

WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

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

WAC LIGHTING

Fixture Type: TYPE G

Catalog Number:

Project:

Location:

Rubix

Single & Double Wall Mount 3000K

Model & Size	Color Temp & CRI	Watt	Lumens	Finish
❍ WS-W2504 Single ❍ WS-W2505 Double	❍ 3000K 90	16W 30W	750 1400	❍ AL Brushed Aluminum ❍ BK Black ❍ BZ Bronze ❍ GH Graphite ❍ WT White

Example: **WS-W2504-AL**

DESCRIPTION

Available in single and twin light configurations, this die-cast aluminum LED wall luminaire is Wet Location listed for a broad range of exterior lighting applications. Designed with asquare profile, this version of Rubix mounts upwards or downwards.

FEATURES

- 2504 Single, 2505 Double
- Driver concealed within the fixture
- 5 year warranty

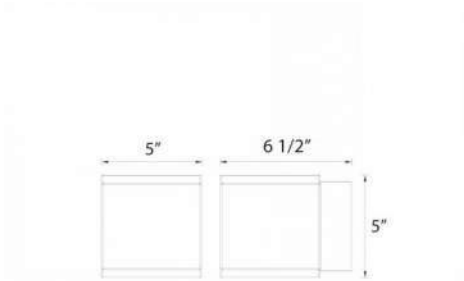
SPECIFICATIONS

Construction:	Die-cast Aluminum
Power:	30W, 16W
Input:	120-277 VAC, 50/60Hz
Dimming:	ELV: 100-15% , 0-10V: 100-10%
Light Source:	Integrated LED
Rated Life:	70000 Hours
Mounting:	Mounts directly to junction box, Can be mounted on wall in all orientations
Finish:	Electrostatically Powder Coated: White, Graphite, Bronze, Black, Brushed Aluminum
Operating Temp:	-40°F to 122°F (-40°C to 50°C)
Standards:	ETL, cETL, Wet Location Listed, IP65, Title 24 JA8-2019 Compliant

FINISHES:

White | Graphite | Bronze | Black | Brushed Aluminum

LINE DRAWING:



WS-W2504, WS-W2505

WAC LIGHTING

Fixture Type: TYPE H

Catalog Number:

Project:

Location:

Rubix

Single & Double Wall Mount 3000K

Model & Size	Color Temp & CRI	Watt	Lumens	Finish
❍ WS-W2504 Single ❍ WS-W2505 Double	❍ 3000K 90	16W 30W	750 1400	❍ AL Brushed Aluminum ❍ BK Black ❍ BZ Bronze ❍ GH Graphite ❍ WT White

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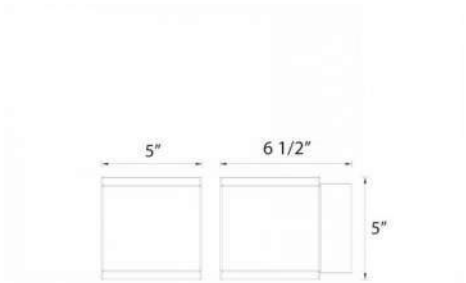
LINE DRAWING:

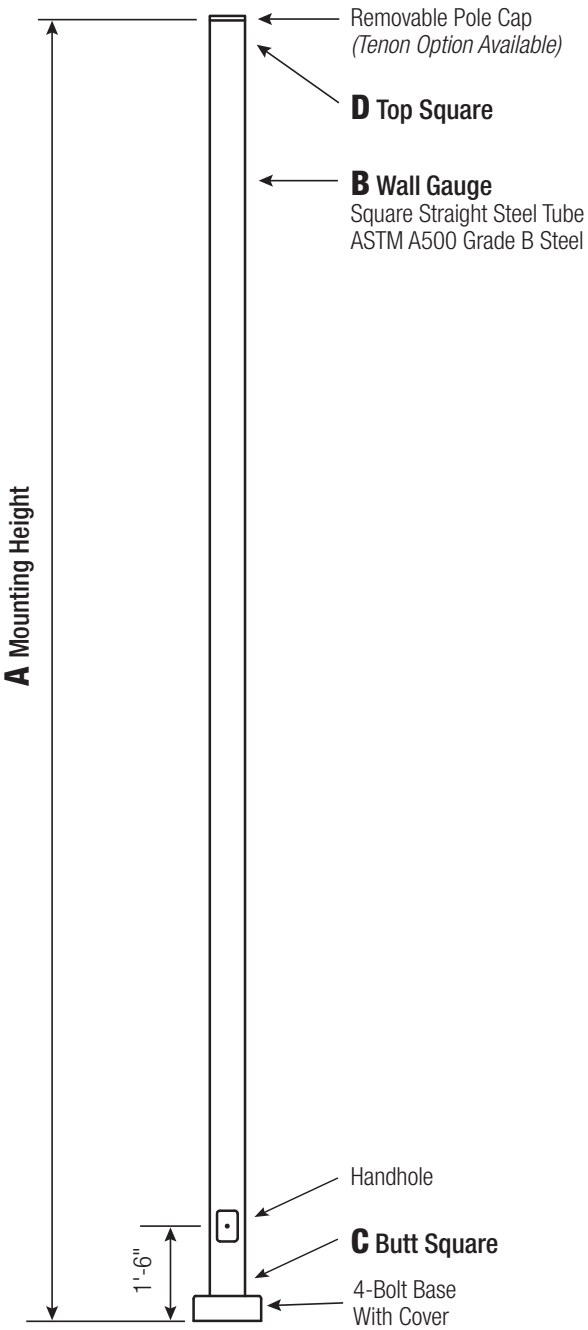


WS-W2504, WS-W2505

SSS

Square Straight Steel Pole
No Arm — 4-Bolt Base

TYPE S1



Powder Coated, Galvanized or Powder Coated over Galvanized Finish Per Customer Specification.

C Butt Sq.	D Top Sq.	F Bolt Cir. Dia.	G Base Sq.	H Bolt Proj.	I Bolt Size
4 *(11 Gauge)*	4	8 - 9	8	3.75	.75 x 17 x 3
4 *(7 Gauge)*	4	8 - 9	8	3.75	.75 x 30 x 3
5 *(11 Gauge)**	5	10 - 12	11	4.875	.75 x 30 x 3
5 *(7 Gauge)*	5	10 - 12	11	4.875	1 x 36 x 4
6	6	11 - 13	12.5	4.875	1 x 36 x 4

**Requires the use of oversized washers (provided).*

Dimensions in Inches

Pole

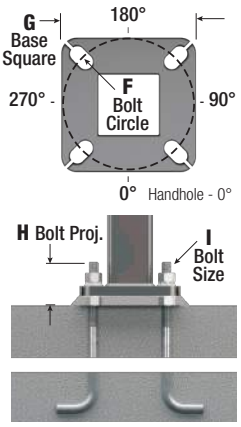
Pole shaft shall be weldable-grade, cold-rolled, commercial quality carbon steel tubing conforming to ASTM A500 Grade B. Options include 11 gauge and 7 gauge. All welds shall conform to AWS D1.1 using ER70S-6 electrodes.

Base Style

4-Bolt Steel Plate Base Flange of fabricated hot rolled carbon steel conforming to ASTM A36 or equivalent (36 ksi minimum yield) with 2-piece Base Cover and attaching hardware.

Anchorage

Anchorage Kit will include four (4) L-shaped Steel Anchor Bolts conforming to AASHTO M314-90 Grade 55. Ten inches (10") of threaded end will be galvanized per ASTM A153. Kits will contain eight (8) Hex Nuts, four (4) Lock Washers, and eight (8) Flat Washers (all components Galvanized Steel). A paper bolt circle template will be provided.

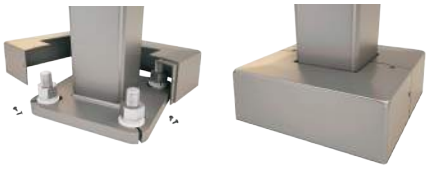


Handhole

Reinforced, 3" x 5" Handhole with cover, stainless steel screw and backbar. A grounding provision incorporating a tapped 1/2"-13NC hole will be provided.

Base Cover

Square ABS plastic Base Covers are standard on all SSS poles specified in BA-Black, BM-Dark Bronze and BH-White. SSS poles specified in all other colors will be manufactured of metal materials. *Custom specification of SSS square metal style Base Covers in BA, BM and BH powder coated finishes is available.*



Vibration Damper

If determined necessary by Hapco, or if specified by the customer, a first and/or second mode vibration damper will be provided.

WARNING: *Do not install light pole without luminaire.*

A Mtg. Hgt.	B Wall Gauge	C Butt Sq.	Total Lum. Weight	Maximum EPA 90	100	110	120	130	140	Catalog Number
10	11	4	320	25.2	20.0	18.6	15.3	12.7	10.6	SSS10B4-4-**
12	11	4	285	20.6	16.2	14.9	12.1	9.9	8.2	SSS12B4-4-**
14	11	4	255	17.0	13.2	12.1	9.7	7.8	6.3	SSS14B4-4-**
15	11	4	245	15.5	11.9	10.9	8.6	6.8	5.4	SSS15B4-4-**
15	7	4	305	23.4	18.4	17.0	13.8	11.4	9.4	SSS15D4-4-**
16	11	4	235	14.0	10.7	9.7	7.6	5.9	4.6	SSS16B4-4-**
16	7	4	290	21.5	16.8	15.5	12.5	10.2	8.4	SSS16D4-4-**
18	11	4	215	11.3	8.4	7.6	5.7	4.3	3.2	SSS18B4-4-**
18	7	4	265	18.0	13.9	12.8	10.2	8.2	6.6	SSS18D4-4-**
20	11	4	200	9.1	6.5	5.8	4.2	2.9	1.9	SSS20B4-4-**
20	11	5	235	14.1	10.3	9.2	6.8	4.9	3.4	SSS20B5-4-**
20	7	4	240	15.1	11.5	10.5	8.2	6.5	5.0	SSS20D4-4-**
20	7	5	330	26.3	20.3	18.6	14.8	11.9	9.6	SSS20D5-4-**
22	11	4	200	7.2	4.9	4.2	2.8	1.7	0.8	SSS22B4-4-**
22	11	5	215	11.4	8.0	7.1	4.9	3.2	1.9	SSS22B5-4-**
22	7	4	225	12.7	9.5	8.6	6.6	5.0	3.7	SSS22D4-4-**
22	7	5	300	22.4	17.1	15.6	12.2	9.6	7.5	SSS22D5-4-**
25	11	4	200	4.7	2.8	2.2	1.0	-	-	SSS25B4-4-**
25	11	5	200	8.0	5.1	4.3	2.4	1.0	-	SSS25B5-4-**
25	7	4	205	9.7	6.9	6.2	4.4	3.1	2.0	SSS25D4-4-**
25	7	5	260	17.7	13.2	11.9	9.0	6.7	4.9	SSS25D5-4-**
28	11	4	200	2.6	1.0	-	-	-	-	SSS28B4-4-**
28	11	5	200	5.1	2.6	1.9	-	-	-	SSS28B5-4-**
28	7	4	200	7.1	4.8	4.1	2.6	1.5	-	SSS28D4-4-**
28	7	5	235	13.9	9.9	8.8	6.3	4.3	2.7	SSS28D5-4-**
30	11	5	200	3.4	1.1	-	-	-	-	SSS30B5-4-**
30	7	4	200	5.6	3.5	2.9	1.6	-	-	SSS30D4-4-**
30	7	5	215	11.7	8.0	7.0	4.7	2.9	1.5	SSS30D5-4-**
30	7	6	275	19.2	13.7	12.2	8.7	5.9	3.8	SSS30D6-4-**
35	7	5	200	6.9	4.0	3.1	1.2	-	-	SSS35D5-4-**
35	7	6	220	12.6	8.0	6.8	3.9	1.6	-	SSS35D6-4-**
39	7	6	200	8.2	4.2	3.1	0.6	-	-	SSS39D6-4-**

Catalog Number System

The catalog number for Hapco poles utilizes the following identification system.

MOUNTING HEIGHT | BUTT SQ. | BASE STYLE | FINISH

S S S | | | | - | 4 - | | -

SHAFT ASSEMBLY | WALL GAUGE | TOP SQ. | ACCESSORIES OPTIONS

Catalog Number Example -

SSS 20 D 5 - 4 – BA

Square Straight Steel, 20' Mounting Height, 7 Gauge, 5" Butt Square, No Taper, 4-Bolt Base, Black Powder Coat Finish.

EPA Notes:

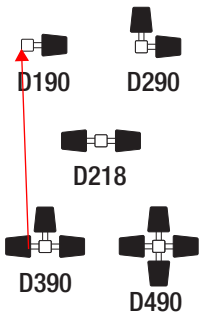
Effective Projected Area (EPA) in square feet. EPA's calculated using wind velocity (mph) indicated in accordance with 2009 AASHTO LTS-5 using a 25-year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. If weight is exceeded, or if other design life or code is required, please consult the factory.

Mounting Options

Side Drill Mount
Includes removable pole cap.
NOTE: A luminaire drilling template must be supplied at time of order.

Tenon Mount
For Tenon Mount applications specify both Tenon diameter and length.

Drill Mount Options



Electrical Box

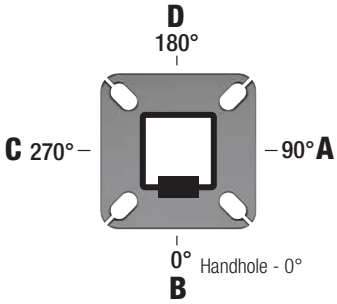

Box Only


GF1 Duplex GFI Receptacle *with Cover*


GF2 Duplex GFI *with In-Use Cover*

Note: *GFI Options must be specified in Accessories.*

Pole Orientation



SSS [ ][ ][ ][ ] - 4 - [ ][ ][ ][ ][ ][ ] - [ ][ ] - [ ][ ][ ][ ] - [ ][ ]

SSS- Square Straight Steel Pole

Height	Gauge	Butt Sq.	Top Sq.	Base Style	Mounting Options	Electrical Box*	Accessories/Options*	Finish
10 = 10' 12 = 12' 14 = 14' 16 = 16' 18 = 18' 20 = 20' 22 = 22' 25 = 25' 28 = 28' 30 = 30' 35 = 35' 39 = 39'	B = 11 Gauge D = 7 Gauge	4 = 4" 5 = 5" 6 = 6"	"-" = No Taper	4 = 4-Bolt Base	**DRILL MOUNT** **D000** - No Drilling **D190** - Std. "A" **D290** - Std. "A" & "D" **D218** - Std. "A" & "C" **D390** - Std. "A", "D", & "C" **D490** - Std. "A", "B", "C", & "D" **DCUS** - Custom* **TENON** **T204** - 2-3/8" O.D. x 4" **T304** - 2-7/8" O.D. x 4" **T356** - 3-1/2" O.D. x 6" **T406** - 4" O.D. x 6" **TCUS** - Custom Tenon** ** Specify Number and Orientation* *** Specify O.D. and Height*	**FA** - 30" Up, "D" **FB** - 30" Up, "B" **FC** - 30" Up, "A" **FD** - 30" Up, "C" **FE** - 36" Up, "D" **FF** - 36" Up, "B" **FG** - 36" Up, "A" **FH** - 36" Up, "C" **FI** - 24" Up, "D" **FK** - 24" Up, "A" **FL** - 24" Up, "C" **FZ** - Custom** ** GFI Receptacle Options Available (Specify in Accessories)* *** Specify Height and Orientation*	**C12** - Threaded 1/2" Coupling** **C34** - Threaded 3/4" Coupling** **C10** - Threaded 1" Coupling** **EHH** - Extra Handhole** **GF1** - Duplex GFI Receptacle *(WR) with Cover* **GF2** - Duplex GFI *(WR) with In-Use Cover* **LAB** - Less Anchor Bolts **LPC** - Less Pole Cap **PAB** - Pre-shipped Anchor Bolts **VD1** - Vib. Damper - 1st Mode **VD2** - Vib. Damper - 2nd Mode ** Add all that apply (Example: CPL-LAB-VD1)* *** Specify Location*	**POWDER COAT COLORS** **BA** - Black Powder Coat **BH** - White Powder Coat **BM** - Dark Bronze Powder Coat **BV** - Dark Green Powder Coat **GC** - Gray Powder Coat **XX** - Special Colors* **GALVANIZED** **1Q** - Galvanized Only **1C** - Black PC Over Galv. **1D** - White PC Over Galv. **1B** - D. Bronze PC Over Galv. **1Y** - D. Green PC Over Galv. **1J** - Gray PC Over Galv. **XX** - Special PC Over Galv.* ** Provide RAL # or Sample Color Chip*

EC to provide as required based on site lighting design.

KAD LED
LED Area Luminaire

Buy American

Catalog Number

Notes

Type TYPE S1

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

Specifications

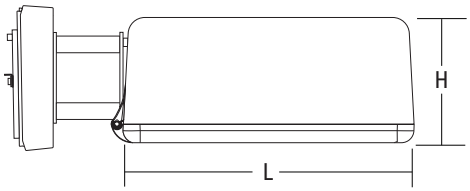
EPA: 1.2 ft² *(0.11 m²)*

Length: 17-1/2" *(44.5 cm)*

Width: 17-1/2" *(44.5 cm)*

Height: 7-1/8" *(18.1 cm)*

Weight (max): 36 lbs. *(16.4 kg)*



A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability1
- This luminaire is part of an A+ Certified solution for ROAM®2 or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background[1]

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL

EC to provide mounting brackets as required.

A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: KAD LED 40C 1000 40K R5 MVOLT SPD04 DDBXD

KAD LED

Series	LEDs	Drive current	CCT	Distribution	Voltage	Mounting[3]
KAD LED	20C[1] 20 LEDs 30C[1] 30 LEDs 40C 40 LEDs 60C 60 LEDs	530 530 mA[1] 700 700 mA 1000 1000 mA	30K 3000 K 40K 4000 K 50K 5000 K	R2 Type II R3 Type III R4 Type IV R5 Type V[2]	MVOLT[3] 277[4] 120[4] 347[1,3] 208[4,5] 480[1,3] 240[4,5]	**Shipped included** SPUMBAK___ Square pole universal mounting adaptor[6] RPUMBAK___ Round pole universal mounting adaptor[6] SPD___ Square pole RPD___ Round pole WBD___ Wall bracket[2] WWD___ Wood pole or wall 04 4" arm 06 6" arm 09 9" arm[5] 12 12" arm[6] **Shipped separately** DAD12P Degree arm (pole) DAD12WB Degree arm (wall) KMA Mast arm external fitter

Options

Shipped installed

- PER5 NEMA twist-lock five-wire receptacle only (no controls)[7,8,9]
- PER7 Seven-wire receptacle only (no controls)[7,8,9]
- SF Single fuse (120, 277, 347V)[4]
- DF Double fuse (208, 240, 480V)[4]
- PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc[3,10,11,12,13]
- PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc[3,10,11,12,13]
- PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc[3,10,11,12,13]
- PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc[3,10,11,12,13]
- BL30 Bi-level switched dimming, 30%[3,9,10,11]
- BL50 Bi-level switched dimming, 50%[3,9,10,11]
- PNMTDD3 Part night, dim till dawn[3,11,16]
- PNMT5D3 Part night, dim 5 hrs[3,11,16]
- PNMT6D3 Part night, dim 6 hrs[3,11,16]
- PNMT7D3 Part night, dim 7 hrs[3,11,16]
- HS Houseside shield[17]

Shipped separately[17]

- WG Wire guard

Finish *(required)*

- DDBXD Dark bronze
- DBLXD Black
- DNAXD Natural aluminum
- DWHXD White
- DDBTXD Textured dark bronze
- DBLBXD Textured black
- DNATXD Textured natural aluminum
- DWHGXD Textured white

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800-705-SERV (7378) • www.lithonia.com

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [18]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [18]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [18]
DSHORT SBK U	Shorting cap [18]
KADLEDHS 20C U	Houseside shield for 20 LED unit
KADLEDHS 30C U	Houseside shield for 30 LED unit
KADLEDHS 40C U	Houseside shield for 40 LED unit
KADLEDHS 60C U	Houseside shield for 60 LED unit
KMA DDBXD U	Mast arm adapter (specify finish)
KADWG U	Wire guard accessory
PUMBAK DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish)

For more control options, visit DTL and ROAM online.

**Round pole top must be 3.25" O.D. minimum.*

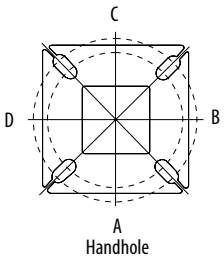
NOTES

1 20C or 30C LED are not available with 530 Drive Current and 347V or 480V.
2 Any Type 5 distribution, is not available with WBA.
3 Any PIRx with BL30, BL50 or PNMT, is not available with 208V,240V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
5 9" or 12" arm is required when two or more luminaires are oriented on a 90° drilling pattern.
6 Available as a separate combination accessory: PUMBAK (finish) U.
7 Mounting must be restricted to ±45° from horizontal aim per ANSI C136.10-2010. Not available with motion sensor.
8 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
9 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR. Node with integral dimming. Shorting cap included.
10 PIR and PIR1FC3V specify the SensorSwitch SBGR-10-ODP control; PIRH and PIRH1FC3V specify the SensorSwitch SBGR-6-ODP control. Dimming driver standard. Not available with PER5 or PER7.
11 Maximum ambient temperature with 347V or 480V is 30°C.
12 Reference Motion Sensor table.
13 Reference PER table on page 3 to see functionality.
14 Requires an additional switched circuit with same phase as main luminaire power. Supply circuit and control circuit are required to be in the same phase.
15 Dimming driver standard. MVOLT only. Not available with 347V, 480V, PER5, PER7 or PNMT options.
16 Dimming driver standard. MVOLT only. Not available with 347V, 480V, PER5, PER7, BL30 or BL50.
17 Also available as a separate accessory; see Accessories information.
18 Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls.

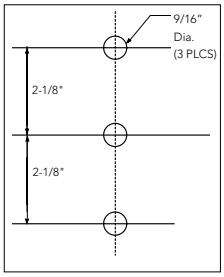
Drilling

Template #5

HANDHOLE ORIENTATION



Top of Pole



Tenon Mounting Slipfitter**

Tenon O.D.	Single Unit	2 at 180°	2 at 90° †	3 at 120°	3 at 90° †	4 at 90° †
2-3/8"	T20-190	T20-280	T20-290	T20-320 †	T20-390	T20-490
2-7/8"	T25-190	T25-280	T25-290	T25-320	T25-390	T25-490
4"	T35-190	T35-280	T35-290	T35-320	T35-390	T35-490

*** For round pole mounting (RPDXX) only.* *† Requires 9" or 12" arm.*

Pole drilling nomenclature: # of heads at degree from handhole (default side A)				
DM19	DM28	DM29	DM39	DM49
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Side B, C, & D	Sides A, B, C, D
Note: Review luminaire spec sheet for specific nomenclature				

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. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
20C	530 mA	35W	R2	4,140	1	0	1	118	4,446	1	0	1	127	4,473	1	0	1	128
			R3	4,123	1	0	1	118	4,427	1	0	1	126	4,455	1	0	1	127
			R4	4,128	1	0	1	118	4,433	1	0	1	127	4,460	1	0	1	127
			R5	4,381	2	0	1	125	4,704	3	0	1	134	4,734	3	0	1	135
	700 mA	45W	R2	5,271	1	0	1	117	5,660	1	0	1	126	5,696	1	0	2	127
			R3	5,250	1	0	2	117	5,637	1	0	2	125	5,672	1	0	2	126
			R4	5,256	1	0	2	117	5,644	1	0	2	125	5,679	1	0	2	126
			R5	5,578	3	0	1	124	5,990	3	0	1	133	6,027	3	0	1	134
	1000 mA	73W	R2	7,344	1	0	2	101	7,886	2	0	2	108	7,935	2	0	2	109
			R3	7,314	1	0	2	100	7,854	1	0	2	108	7,903	1	0	2	108
			R4	7,322	1	0	2	100	7,863	1	0	2	108	7,912	1	0	2	108
			R5	7,771	3	0	1	106	8,345	3	0	1	114	8,397	3	0	1	115
30C	530 mA	53W	R2	6,166	1	0	2	116	6,621	1	0	2	125	6,663	1	0	2	126
			R3	6,141	1	0	2	116	6,594	1	0	2	124	6,635	1	0	2	125
			R4	6,148	1	0	2	116	6,602	1	0	2	125	6,643	1	0	2	125
			R5	6,525	3	0	1	123	7,006	3	0	1	132	7,050	3	0	1	133
	700 mA	69W	R2	7,817	2	0	2	113	8,395	2	0	2	122	8,447	2	0	2	122
			R3	7,785	1	0	2	113	8,360	2	0	2	121	8,412	2	0	2	122
			R4	7,794	1	0	2	113	8,370	1	0	2	121	8,422	1	0	2	122
			R5	8,272	3	0	2	120	8,883	3	0	2	129	8,938	3	0	2	130
	1000 mA	108W	R2	10,755	2	0	2	100	11,549	2	0	2	107	11,621	2	0	2	108
			R3	10,711	2	0	2	99	11,502	2	0	2	106	11,574	2	0	2	107
			R4	10,724	2	0	2	99	11,515	2	0	2	107	11,587	2	0	2	107
			R5	11,381	3	0	2	105	12,221	4	0	2	113	12,297	4	0	2	114
40C	530 mA	71W	R2	8,156	2	0	2	115	8,758	2	0	2	123	8,812	2	0	2	124
			R3	8,122	2	0	2	114	8,722	2	0	2	123	8,776	2	0	2	124
			R4	8,132	1	0	2	115	8,732	1	0	2	123	8,786	1	0	2	124
			R5	8,630	3	0	2	122	9,267	3	0	2	131	9,325	3	0	2	131
	700 mA	94W	R2	10,286	2	0	2	109	11,045	2	0	2	118	11,114	2	0	2	118
			R3	10,244	2	0	2	109	11,000	2	0	2	117	11,069	2	0	2	118
			R4	10,256	2	0	2	109	11,013	2	0	2	117	11,081	2	0	2	118
			R5	10,884	3	0	2	116	11,688	4	0	2	124	11,761	4	0	2	125
	1000 mA	141W	R2	13,923	2	0	2	99	14,951	2	0	2	106	15,045	2	0	2	107
			R3	13,866	2	0	3	98	14,890	2	0	3	106	14,983	2	0	3	106
			R4	13,882	2	0	3	98	14,907	2	0	3	106	15,000	2	0	3	106
			R5	14,733	4	0	2	104	15,821	4	0	2	112	15,920	4	0	2	113
60C	530 mA	103W	R2	11,996	2	0	2	116	12,882	2	0	2	125	12,963	2	0	2	126
			R3	11,947	2	0	2	116	12,829	2	0	2	125	12,909	2	0	2	125
			R4	11,961	2	0	2	116	12,844	2	0	2	125	12,925	2	0	2	125
			R5	12,694	4	0	2	123	13,632	4	0	2	132	13,717	4	0	2	133
	700 mA	137W	R2	14,927	2	0	2	109	16,029	3	0	3	117	16,130	3	0	3	118
			R3	14,866	2	0	3	109	15,964	2	0	3	117	16,063	2	0	3	117
			R4	14,884	2	0	2	109	15,982	2	0	3	117	16,082	2	0	3	117
			R5	15,796	4	0	2	115	16,962	4	0	2	124	17,068	4	0	2	125
	1000 mA	216W	R2	19,328	3	0	3	89	20,754	3	0	3	96	20,884	3	0	3	97
			R3	19,248	3	0	3	89	20,669	3	0	4	96	20,799	3	0	4	96
			R4	19,271	3	0	3	89	20,693	3	0	4	96	20,823	3	0	4	96
			R5	20,452	4	0	2	95	21,962	4	0	2	102	22,099	4	0	2	102

Performance Data

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	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	**77°F**	**1.00**
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **KAD LED** 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	KAD LED 60C 1000			
	1.0	0.91	0.86	0.76
	KAD LED 40C 1000			
	1.0	0.93	0.88	0.79
	KAD LED 60C 700			
	1.0	0.98	0.97	0.94

Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	Current (A) 120	208	240	277	347	480
20	530	35	0.30	0.18	0.16	0.15	-	-
	700	45	0.39	0.23	0.20	0.18	0.15	0.12
	1000	73	0.61	0.35	0.31	0.27	0.22	0.17
30	530	53	0.44	0.26	0.23	0.20	-	-
	700	69	0.58	0.34	0.29	0.26	0.21	0.16
	1000	108	0.90	0.52	0.46	0.40	0.32	0.24
40	530	71	0.60	0.35	0.32	0.29	0.21	0.16
	700	94	0.79	0.46	0.41	0.36	0.27	0.20
	1000	141	1.18	0.68	0.59	0.52	0.42	0.30
60	530	103	0.87	0.50	0.44	0.39	0.29	0.22
	700	137	1.15	0.66	0.58	0.51	0.40	0.29
	1000	216	1.81	1.04	0.92	0.81	0.63	0.47

NOTE: All ratings in this table are for a nominal system operated at 25°C ambient temperature. Current and power specifications in this table do not include branch circuit derating specified in the National Electrical Code. Please observe all applicable electrical codes and ratings.

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min
*For use when motion sensor is used as dusk to dawn control						

PER Table						
Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
			Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✔	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	⊘	✔	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	⊘	⚠	Wires Capped inside fixture	⚠	Wires Capped inside fixture	Wires Capped inside fixture
Future-proof*	⊘	⚠	Wired to dimming leads on driver	✔	Wired to dimming leads on driver	Wires Capped inside fixture
Future-proof* with Motion	⊘	⚠	Wires Capped inside fixture	✔	Wires Capped inside fixture	Wires Capped inside fixture

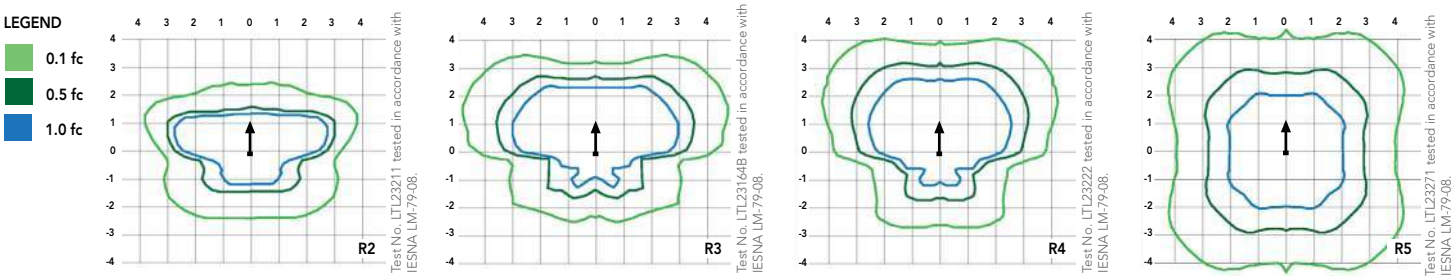
✔ Recommended
⊘ Will not work
⚠ Alternate

*Future-proof means: Ability to change controls in the future.

Photometric Diagrams

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

Isofootcandle plots for the KAD LED 60C 1000 40K. Distances are in units of mounting height (20').



FEATURES & SPECIFICATIONS

INTENDED USE
The energy savings and long life of the KAD LED area luminaire make it a reliable choice for illuminating streets, walkways, parking lots, and surrounding areas.

CONSTRUCTION
Single-piece die-cast, aluminum housing with contoured edges has a 0.12" nominal wall thickness. Die-cast door frame has an impact-resistant, tempered glass lens that is fully gasketed with one piece tubular silicone.

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.

OPTICS
Precision-molded refractive acrylic lenses are available in four distributions. Light engines are available in standard 4000K, 3000K or 5000K (70 CRI) configurations.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION
Included universal mounting block and extruded aluminum arm facilitate quick and easy installation using nearly any existing drilling pattern. Stainless steel bolts fasten the luminaire to the mounting block securing it to poles or walls. The KAD LED can withstand up to a 1.5 G vibration load rating per ANSI C136.31. The KAD LED also utilizes the standard K-Series (Template #5) for pole drilling.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient.
DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

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

WARRANTY
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

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