### **URBAN DESIGN COMMISSION APPLICATION**

U

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



#### FOR OFFICE USE ONLY:

Date Received \_\_\_\_\_5/15/23 10:39 a.m.

Initial Submittal

Paid \_\_\_\_\_

Revised Submittal

**Complete all sections of this application, including the desired meeting date and the action requested.** If your project requires both UDC <u>and</u> Land Use application submittals, a completed <u>Land Use Application</u> and accompanying submittal materials are also required to be submitted.

If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call the Planning Division at (608) 266-4635.

Si necesita interprete, traductor, materiales en diferentes formatos, u otro tipo de ayuda para acceder a estos formularios, por favor llame al (608) 266-4635.

Yog tias koj xav tau ib tug neeg txhais lus, tus neeg txhais ntawv, los sis xav tau cov ntaub ntawv ua lwm hom ntawv los sis lwm cov kev pab kom paub txog cov lus qhia no, thov hu rau Koog Npaj (Planning Division) (608) 266-4635.

Comprehensive Design Review (CDR)

Modifications of Height, Area, and Setback

Sign Exceptions as noted in Sec. 31.043(3), MGO

#### 1. Project Information

Address (list all addresses on the project site):	750 University Row
UW Health 750 University Row Title:	Expansion

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

UDC meeting date requested _	tedJune 28, 2023					
New development	Alteration to an existi	ng or previously-approved development				
Informational	Initial Approval	Final Approval				

Signage

Other

Please specify

#### 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

#### 4. Applicant, Agent, and Property Owner Information

Applicant name	Paul Lenhart	Company University Row Clinic LLC
Street address	749 University Row Ste 101	City/State/Zip Madison, WI 53705
Telephone	608.260.7007	Emailplenhart@kruppconstruction.com
Project contact perso	on Jenni Eschner	Company Eppstein Uhen Architects
Street address	309 W Johnson St	City/State/Zip Madison WI 53703
Telephone	608.442.6698	Emailjennie@eua.com
Property owner (if n	ot applicant) GI Clinic LLC	
Street address	749 University Row Ste 101	City/State/Zip Madison WI 53705
Telephone	608.260.7007	Email plenhart@kruppconstruction.com

M:\PLANNING DIVISION\COMMISSIONS & COMMITTEES\URBAN DESIGN COMMISSION\TEMPLATES & FORMS\APPLICATION — NOVEMBER 2022

#### 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:

- <u>Informational Presentation</u>. A request for an Informational Presentation to the UDC may be requested prior to seeking any
  approvals to obtain early feedback and direction before undertaking detailed design efforts. 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 Modification requests)
- <u>Initial Approval</u>. 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.
- <u>Final Approval</u>. 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**

The Urban Design Commission meets virtually via Zoom, typically on the second and fourth Wednesdays of each month at 4:30 p.m. Applicant presentations are strongly encouraged, although not required. Prior to the meeting, each individual speaker is required to complete an online registration form to speak at the meeting. A link to complete the online registration will be provided by staff prior to the meeting. Please note that individual presentations will be limited to a **maximum of three (3) minutes**. The pooling of time may be utilized to provide one speaker more time to present, however the additional time will be based on the number of registrants from the applicant team, i.e. two (2) applicant registrants = six (6) minutes for one (1) speaker.

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. Please note that presentation slides, in a PDF file format, are required to be submitted **the Friday before** the UDC meeting.

### **URBAN DESIGN DEVELOPMENT PLANS CHECKLIST**

The items listed below are minimum 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.

Providing additional

information beyond these

minimums may generate

from the Commission.

a greater level of feedback

#### **1. Informational Presentation**

- 🗹 🛛 Locator Map
- Letter of Intent (If the project is within an Urban Design District, a summary of <u>how</u> 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.

#### 2. Initial Approval

- 🖸 Locator Map
- Letter of Intent (If the project is within a Urban Design District, a summary of <u>how</u> 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, including material and color callouts
- PD text and Letter of Intent (if applicable)

#### 3. Final Approval

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

- ☑ Grading Plan
- 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)
- Site Plan showing site amenities, fencing, trash, bike parking, etc. (if applicable)
- PD text and Letter of Intent (if applicable)
- Samples of the exterior building materials
- Proposed sign areas and types (if applicable)

#### 4. Signage Approval (Comprehensive Design Review (CDR), Sign Modifications, and Sign Exceptions (per Sec. 31.043(3))

- □ Locator Map
- Letter of Intent (a summary of how the proposed signage is consistent with the CDR or Signage Modifications 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 <u>Ch. 31, MGO</u> compared to what is being requested
- Graphic of the proposed signage as it relates to what the <u>Ch. 31, MGO</u> would permit

PAGE 3 OF 4

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
  - Fully dimensioned plans, scaled at 1"= 40' or larger

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

#### 5. Required Submittal Materials

#### Application Form

• A completed application form is required for <u>each</u> 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.

#### 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 Comprehensive Design Review (CDR) or Signage Modification review criteria is required.
- **Development Plans** (Refer to checklist on Page 4 for plan details)
- Filing Fee (Refer to Section 7 (below) for a list of application fees by request type)
- Electronic Submittal
  - Complete electronic submittals <u>must</u> be received prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. All plans must be legible and scalable when reduced. Individual PDF files of each item submitted should be submitted via email to <u>UDCapplications@cityofmadison.com</u>. The email must include the project address, project name, and applicant name.
  - Email Size Limits. Note that <u>an individual email cannot exceed 20MB</u> and <u>it is the responsibility of the applicant</u> to present files in a manner that can be accepted. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.

#### **M** 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.

#### 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 <u>Tim Parks and Jessica Vaughn</u> on <u>2/6/2023 & 2/13/2023</u>.
- 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 Paul G Lenhart Relationship to property Manager and Member Authorizing signature of property owner Date 5/3/2023

#### 7. Application Filing Fees

Fee payments are due by the submittal date. Payments received after the submittal deadline may result in the submittal being scheduled for the next application review cycle. Fees may be paid in-person, via US Mail, or City drop box. If mailed, please mail to: *City of Madison Building Inspection, P.O. Box 2984, Madison, WI 53701-2984.* The City's drop box is located outside the Municipal Building at 215 Martin Luther King, Jr. Blvd. on the E Doty Street side of the building. Please make checks payable to *City Treasurer,* and include a completed application form or cover letter indicating the project location and applicant information with all checks mailed or submitted via the City's drop box.

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

- □ Urban Design Districts: \$350 (per <u>§33.24(6) MGO</u>).
- 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 <u>§31.041(3)(d)(1)(a) MGO</u>)
- ☐ Minor Alteration to a Comprehensive Sign Plan: \$100 (per <u>§31.041(3)(d)(1)(c) MGO</u>)
- □ All other sign requests to the Urban Design Commission, including, but not limited to: appeals from the decisions of the Zoning Administrator, requests for Sign Modifications (of 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:

- 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

#### **Letter of Intent**

Please consider this our formal Letter of Intent for the land use application and to pursue an Amendment to the General Development Plan and Specific Implementation Plan in the Planned Unit Development (PUD-GDP-SIP), previous PUD-GDP-SIP dated January 24, 2012.

• Existing PUD-GDP-SIP drawing set dated January 24, 2012, is attached for reference.

#### **Project Name:**

UW Health 750 University Row Expansion

#### **Parcel Location:**

750 University Row Madison, WI 53705

#### Applicant:

University Row Clinic, LLC 749 University Row, Suite 101 Madison, WI 53705 Paul G. Lenhart 608-260-7007 plenhart@kruppconstruction.com

#### Landowner:

GI Clinic, LLC 749 University Row, Suite 101 Madison, WI 53705 Paul G. Lenhart 608-260-7007 plenhart@kruppconstruction.com

#### Architect:

Eppstein Uhen Architects 309 W Johnson Street, Suite 202 Madison, WI 53703 Rob Beisenstein, AIA, LEED AP 414-291-8145 robb@eua.com

#### **Civil Engineer:**

D'Onofrio, Kottke and Associates 7530 Westward Way Madison, WI 53717 Dan Day, PE 608-833-7530 dday@donofrio.cc

#### Landscape Architect:

Ken Saiki Design 1110 S. Park Street Madison, WI 53715 Rebecca DeBoer 608-251-3600 rdeboer@saiki.design.com

#### **Contractor:**

Krupp General Contractors 749 University Row, Suite 101 Madison, WI 53705 Dietmar Bassuner 608-347-2759 Dietmar.bassuner@kruppconstruction.com

#### **Proposed Building Occupant:**

UW Health 600 Highland Avenue Madison, WI 53792-8360 Michael McKay 608-422-8396 mmckay@uwhealth.org

The existing 67,292 SF UW Health, Digestive Health Center (DHC), is a 3-story outpatient clinic building located at 750 University Row. The lowest level of the DHC building includes parking, clinical support spaces, and building support spaces. The main entrance is located on the southeast end of the building, facing south to the surface parking lot, and is accessed from a driveway that runs between the building and the surface parking lot.

The proposed building expansion is comprised of a 3 ½ level, 830 car parking structure adjacent to and below grade (underneath) a 180,000 SF, 4-story outpatient clinic. The first-floor clinical space includes Registration, Lab, Pharmacy, Imaging, Café, and Urgent Care. The second through fourth floors include Specialty Care and Primary Care Clinics. The proposed main building entrance will remain in a similar location and be reoriented to face the primary street, University Row. UW Health will be the single occupant of the expanded building.

During construction, the temporary surface parking areas located on Lots 2 and 3 will be used for staff and patient parking.

Future development at Lots 2 and 3 will consist of a single 4-story multi-family building with covered and surface parking. The proposed multi-family building contemplates 110 units with a parking ratio of 1:1 parking stall per bedroom.

#### Site:

The University Crossing development is a total of 14.332 acres (624,302 SF).

Lots 1, 2 & 3 are 8.501 acres (370,324 SF). As part of this project the property boundaries of Lots 1, 2 and 3 will be revised via Certified Survey Map (CSM).

- Lot 1 will increase in size to accommodate the footprint of the building addition.
- Lots 2 and 3 will be combined and will be referred to as Lot 2.

The remaining development encompasses the following areas and will remain as configured:

- Lots 4, 5, 6 & 7 at 3.763 acres (163,924 SF)
- Outlot 1 at 0.374 acres (16,281 SF)
- Public roads at 1.694 acres (73,773 SF)

#### Sustainability:

The expansion of 750 University Row is planning to pursue LEED 4.1 designation and is exploring the following highlights:

- Exploring renewable energy, including solar.
- Central and accessible: Located within ¼ mile walk to six bus lines (the closest bus stop being approximately 200' from main entrance) and within ½ mile walk to a planned BRT stop. This location earns a WalkScore of sixty-seven under the LEED 4.1 rating system.
- The parking garage will provide charging for electric vehicles, ample bike parking for staff and visitors and will be shaded by solar panels.
- The design will incorporate bird collision deterrence concepts, including bird-friendly glazing.
- The design will incorporate vegetated roof areas to aid with stormwater management strategies as well as provide enhanced views.
- Parking will be in a covered structure minimizing rainwater run-off as well as minimizing the use of deicing agents during the winter months.
- The project will account for rainwater collection systems to be used for toilet flushing and landscape irrigation (graywater reuse).
- The project will incorporate low-emitting and low-carbon materials.

#### Signage:

Concept signage locations for 750 University Row are indicated on the design drawings. Final signage design will be submitted at a future date.

#### Schedule:

The anticipated occupancy date of 750 University row is expected to be Q1 of 2026.

#### Transportation:

Bike:

The clinic expansion will include internal bike storage along with showers and lockers to encourage bike use by employees. The existing bike path on the west side of the development will be extend to the building expansion south property line.

A B-Cycle station is currently located at the intersection of University Avenue and University Row.

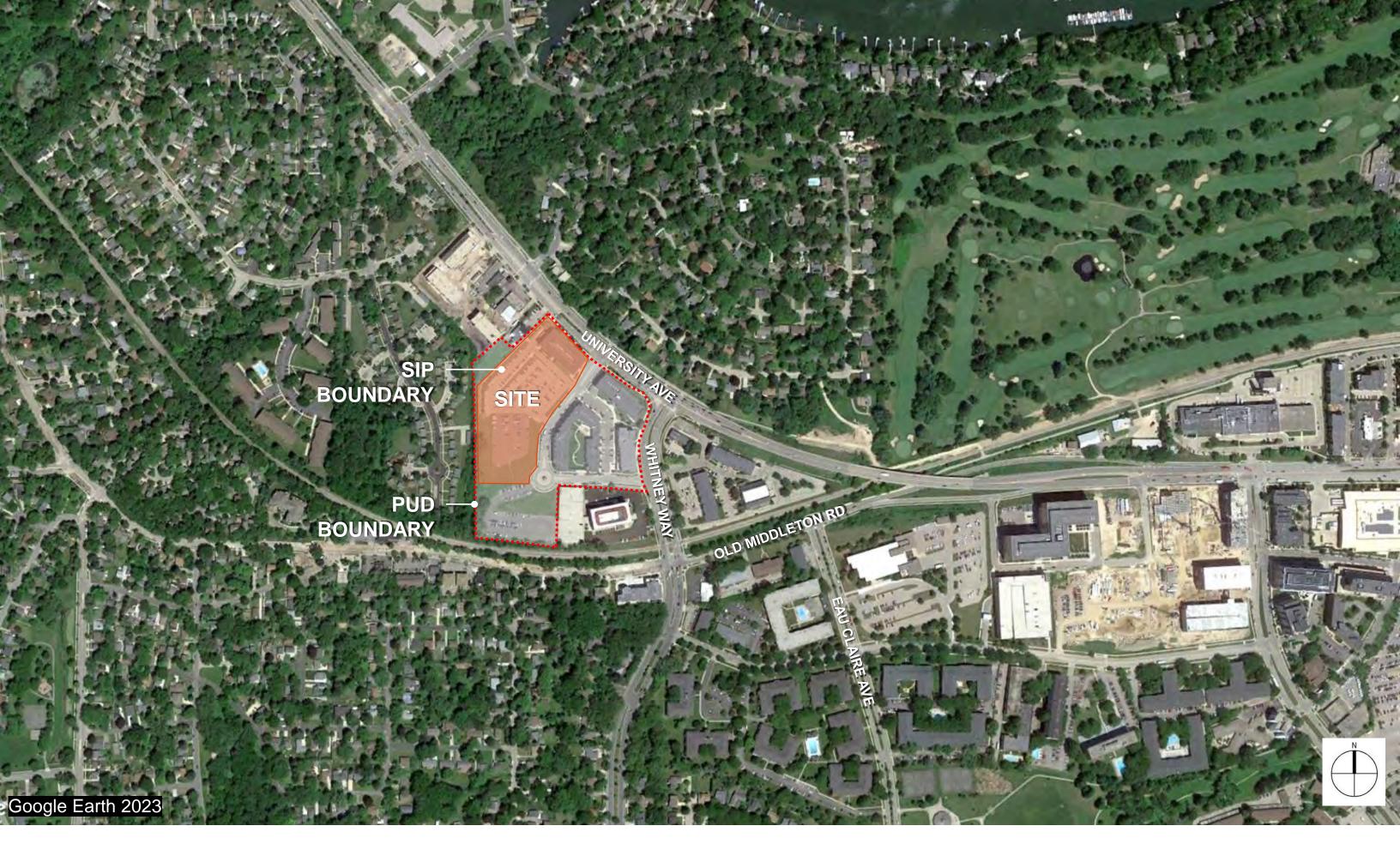
Transit:

Located within ¼ mile walk to 6 bus lines (the closest being approximately 200' from main entrance) and within ½ mile walk to a planned BRT stop. The location earns a WalkScore of sixty-seven under the LEED 4.1 rating system.

#### Traffic Study:

A traffic impact analysis has been completed by KL Engineering and was submitted to the City of Madison on February 8, 2023







SITE LOCATOR MAP A01



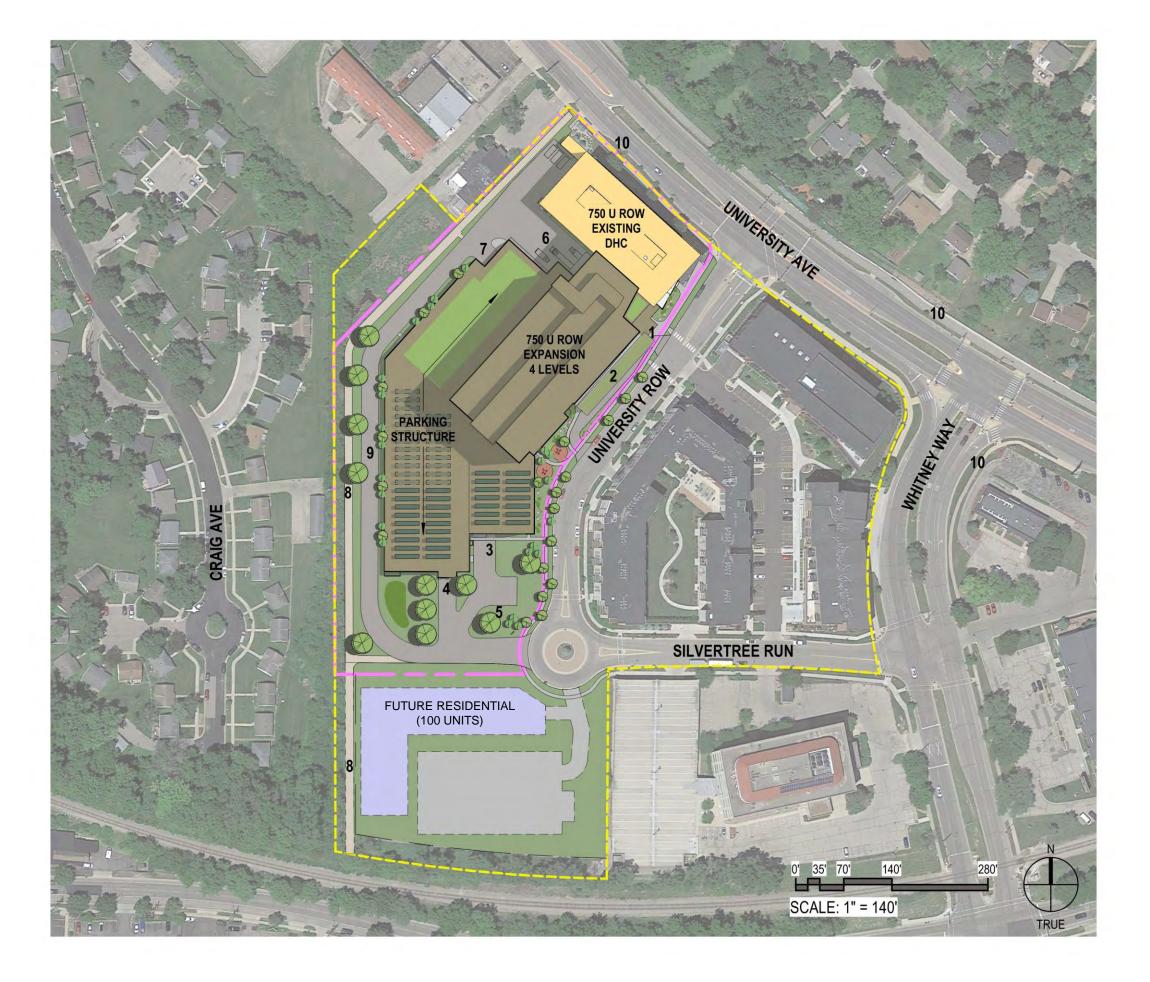


### TEMPORARY PARKING PLAN A02

- 1 MAIN ENTRY
- 2 PATIENT DROP-OFF / PICK-UP
- 3 AMBULANCE PICK-UP AND EXTENDED VEHICLE PARKING
- 4 VISITOR PARKING ENTRY / EXIT
- 5 DRY DETENTION
- 6 LOADING DOCK (NEW)
- 7 STAFF PARKING ENTRY / EXIT
- 8 BIKE PATH
- 9 SERVICE DRIVE
- 10 EXISTING BUS STOP

PUD BOUNDARY -----

SIP BOUNDARY



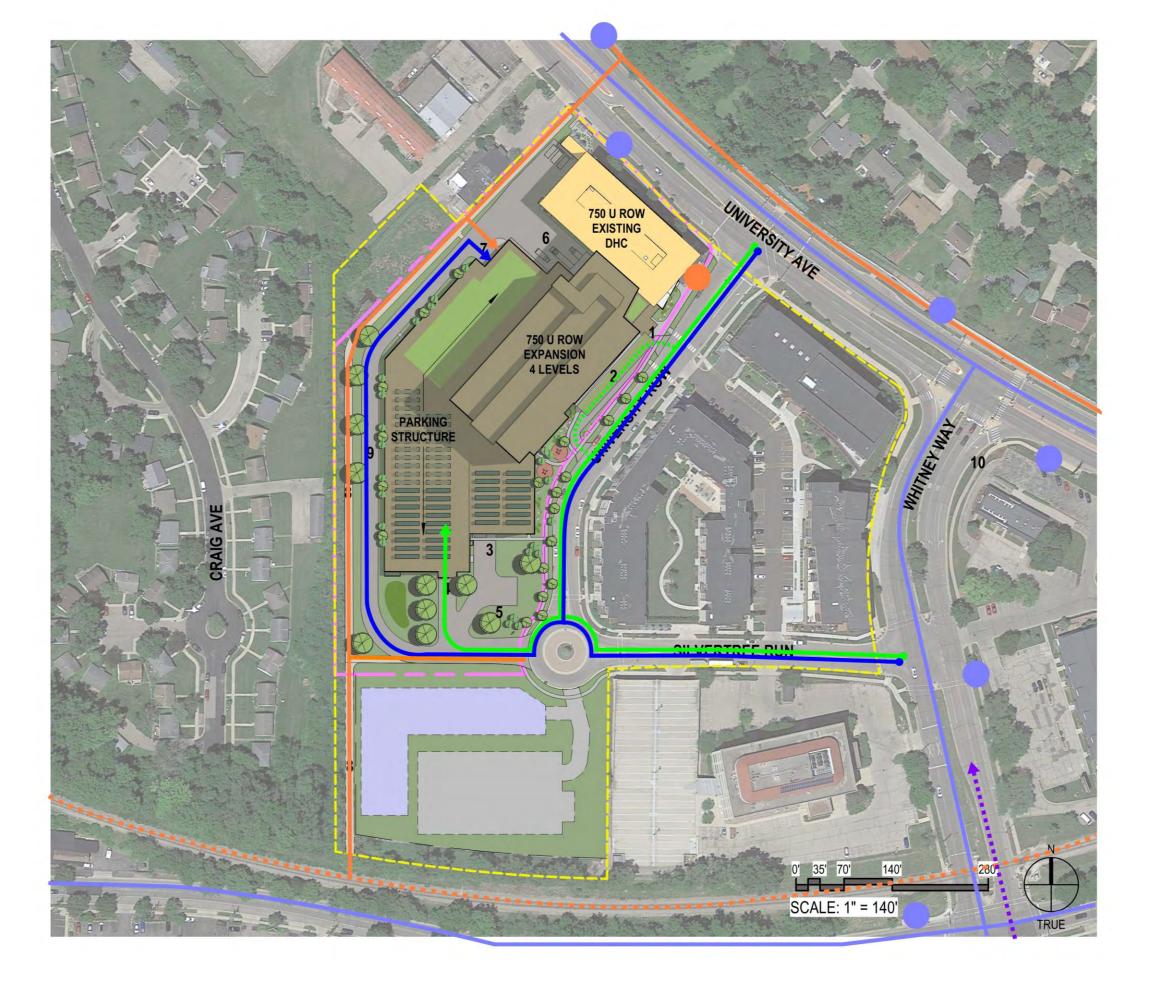


**750 UNIVERSITY ROW EXPANSION** 

PROPOSED SITE PLAN A03







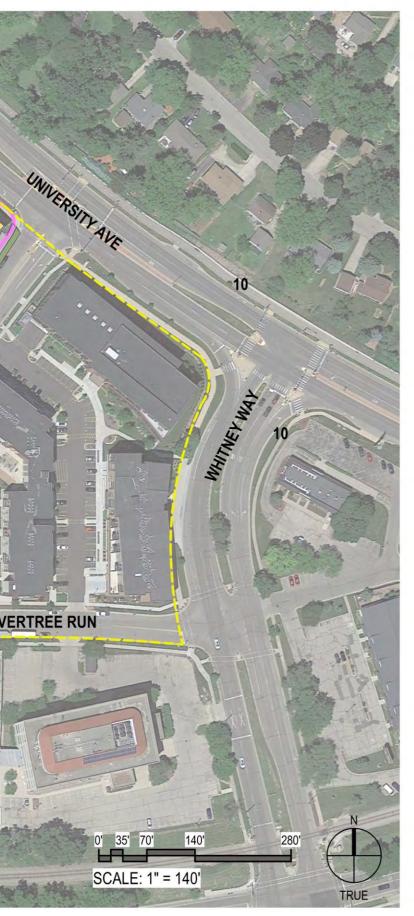


PROPOSED SITE PLAN FLOWS A04

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TRANSPORTATIO		)		in the	
	Use	Height	Building Ar	ea	Stalls
Existing per PUD, GDF	, SIP dated 2012	.01.24			
Building 1	Clinic	3	67,420	sqft	75
Building 1A	Clinic	4	70,000	sqft	456
Building 2	Clinic	3	80,000	sqft	411
Building 3	Non-profit	3	40,000	sqft	42
Building 4	Office/Retail	3	64,000	sqft	45
Building 5	Hotel	6	84,000	sqft	29
Building 6	Residential	4	135,600	sqft	0
Shared Parking	parking				285
TOTAL Proposed			541,020	sqft	1,343
				NY S	hath-
Current State					
750 University Row	Clinic	3	67,292	sqft	254
725 University Row	Residential	5		-	332
749 University Row	Office/Retail	3	65,110	sqft	32
5125 Silvertree Run	Residential	4	59,330	sqft	30
Surface shared	Parking		0	sqft	54
Future State as F	Proposed				
within this Subm	ittal				
750 University Row					
Expansion	Clinic	4	189,000	sqft	611
Lot 2 and 3 Building	Residential	4		•	163
TOTAL Current + Future			670,255		1,476
			, ,	300	a Marrielle
Delta Analysis					
Total Existing			541,020		1,343
Total Current + Future			670,255		1,476
DELTA			129,235		133
					M. A.A.

### eu:a UWHealth KRUPP



GDP+ SIP / BUILDING DATA A05





SIP BOUNDARY

20' SETBACK

EXISTING FAÇADE WITHIN 20' SETBACK

PRINCIPAL BUILDING ENTRANCE

SEE EXCEPTION REQUEST IN PUD ALLOWING FOR DROPOFF AS INTEGRAL TO HEALTH CLINIC

SEE EXCEPTION REQUEST IN PUD ALLOWING FOR SETBACK TO EXCEED TOD REQUIREMENT

SITE DETAIL – EXCEPTION REQUESTS MAY 15, 2023

TRUE

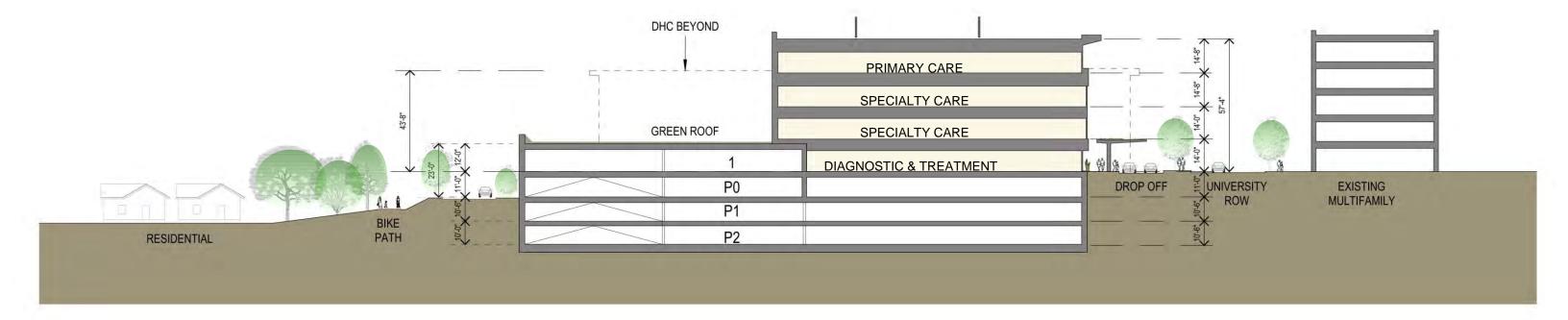
15' 30'

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60'

120'

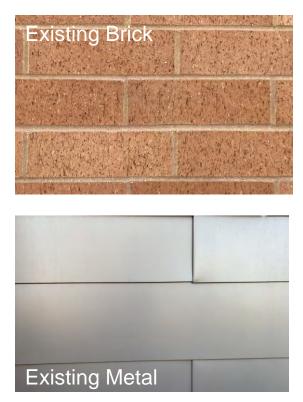
A06



### eu:a **Whealth KRUPP**

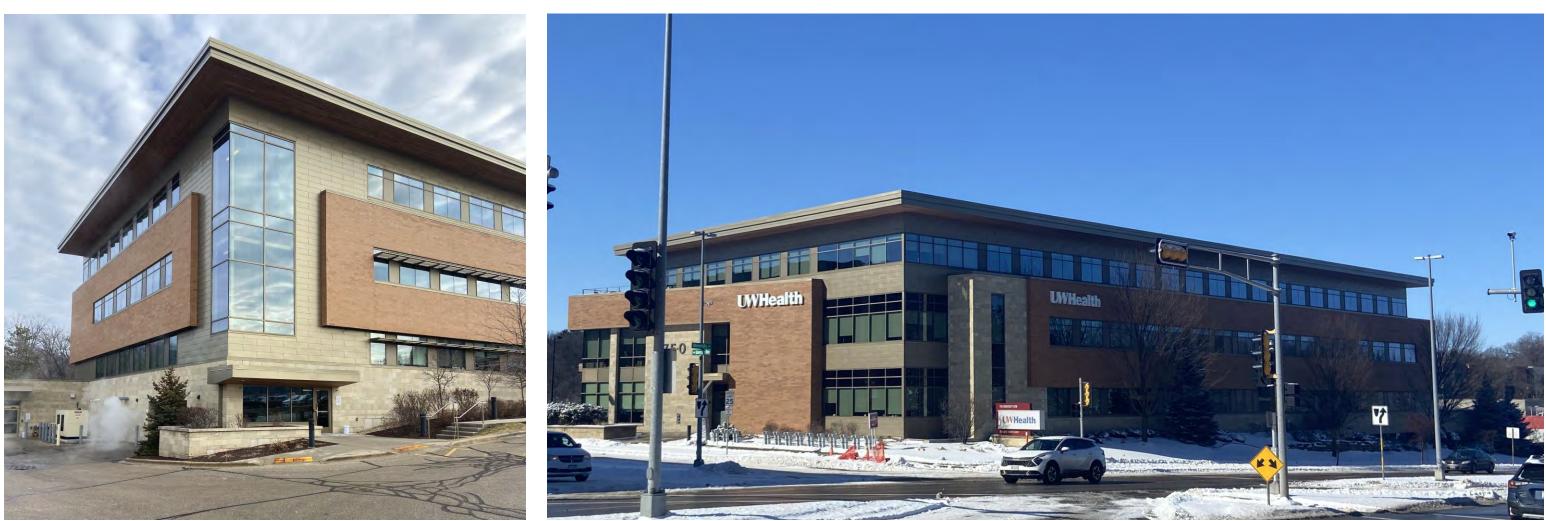












### eu:a **WHealth KRUPP**

















# SPRING\_HARBOR ANIMAL HOSPITAL 5129 UNIVERSITY AVENUE





## MIDAS











### PROPOSED AERIAL RENDERING A11





### PROPOSED AERIAL RENDERING A12









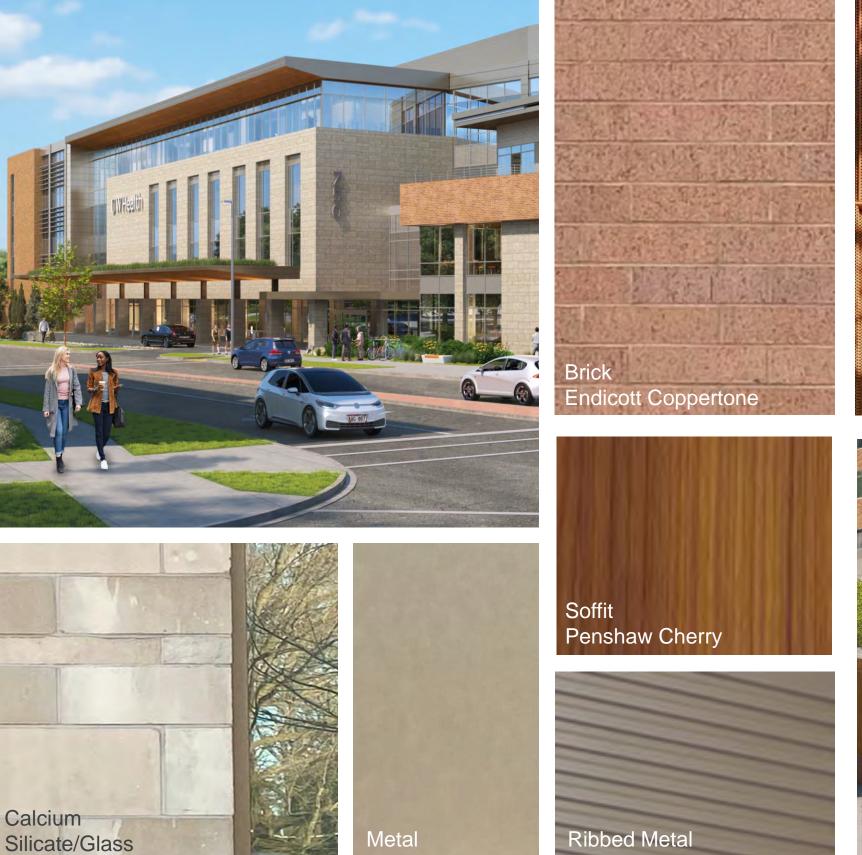


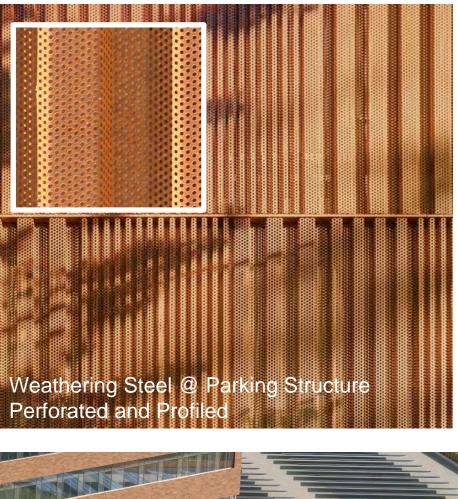






# PROPOSED CONCEPTUAL RENDERING A15



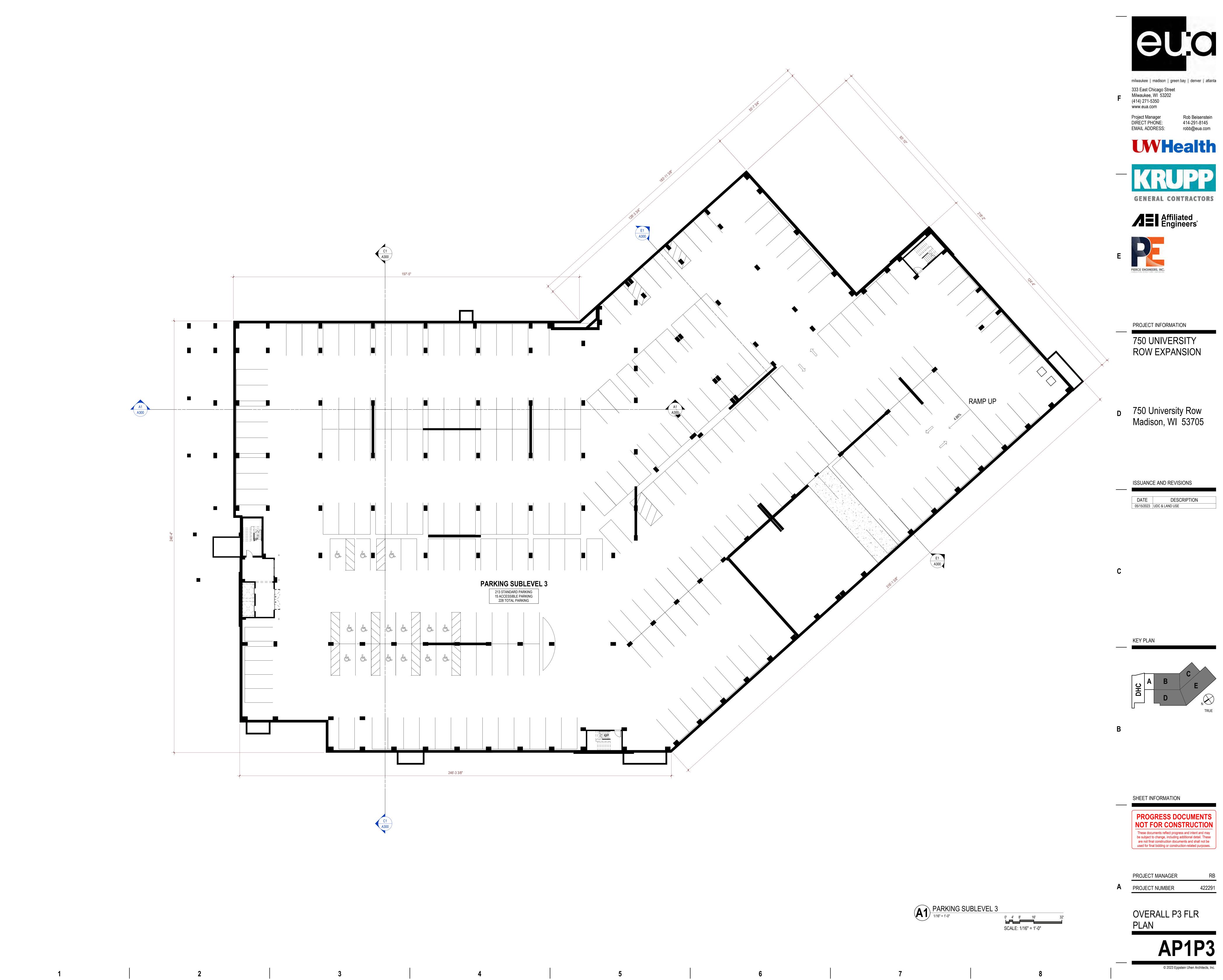


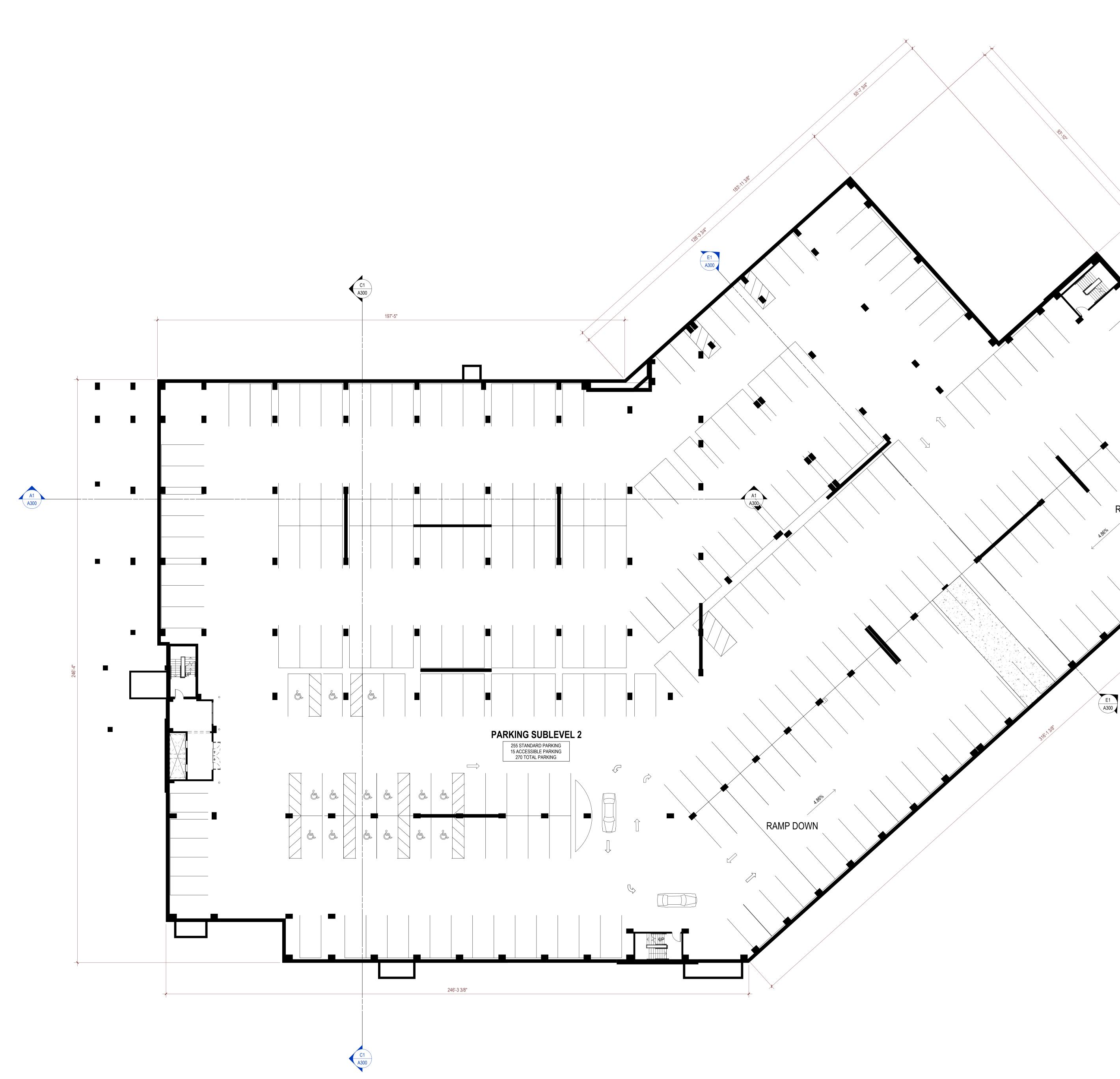
### eu:a **WHealth KRUPP**







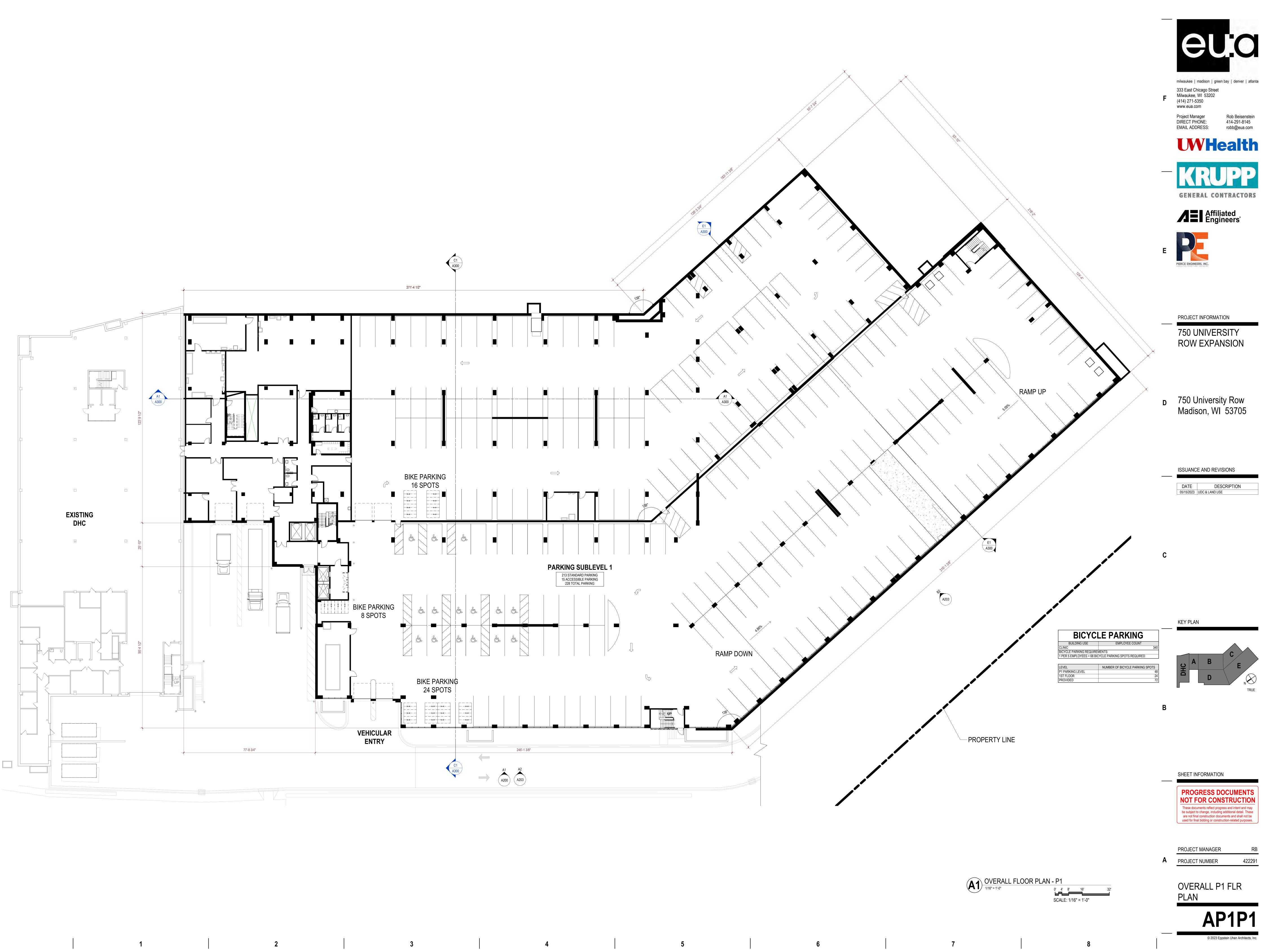


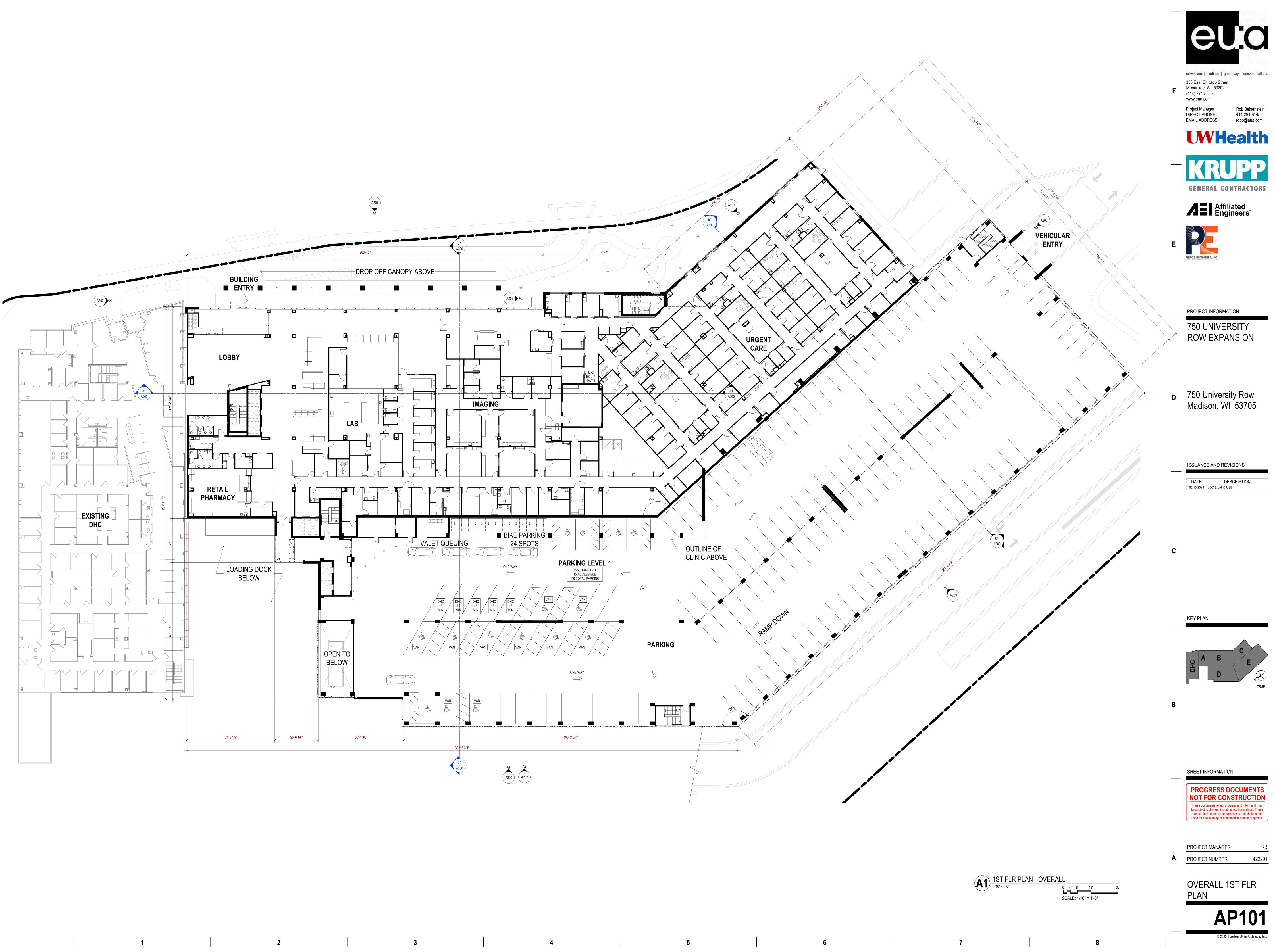


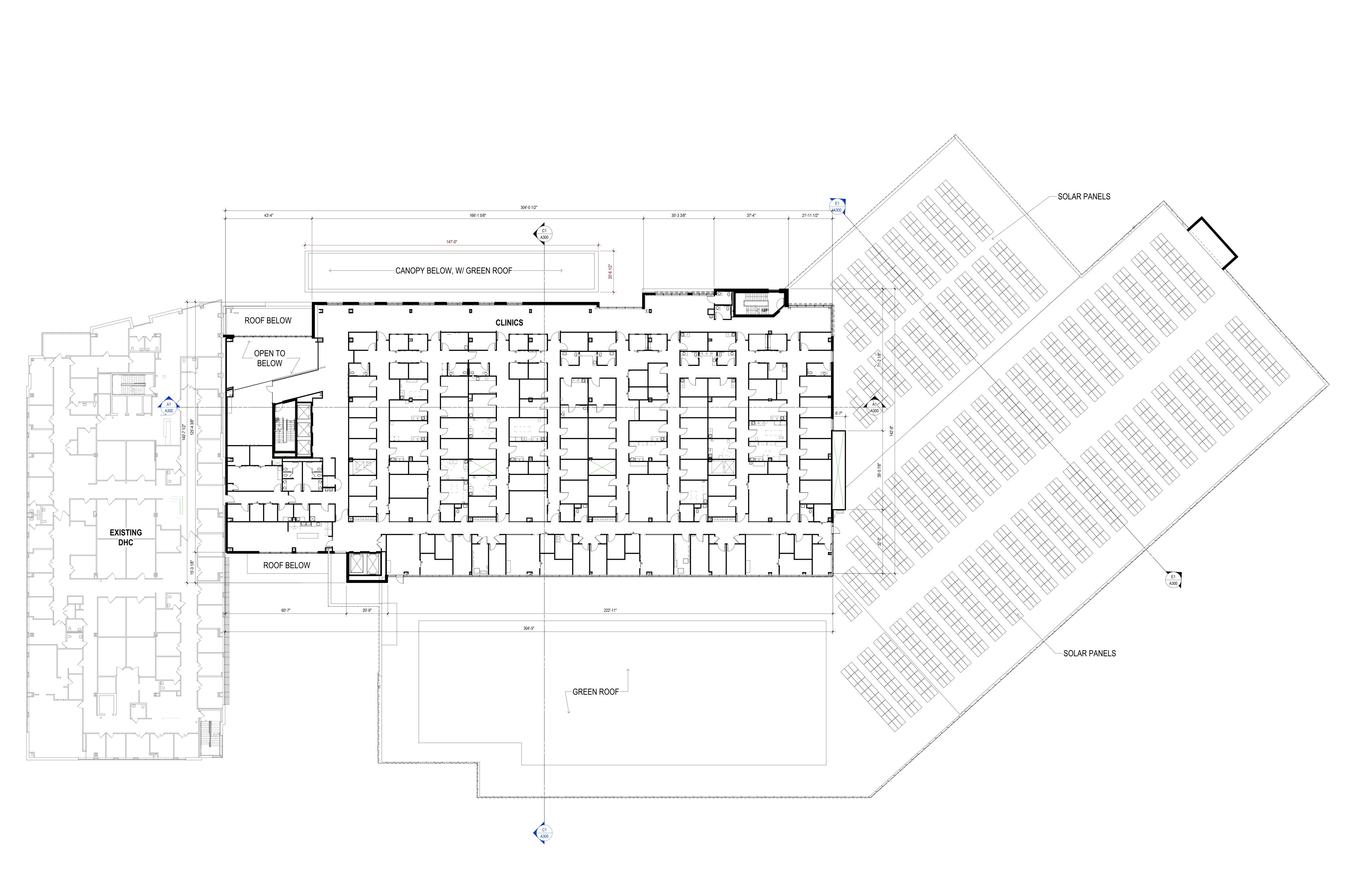
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A1 PARKIN 1/16" = 1'-0"

	-	milwaukee   madison   green bay   denver   atlanta 333 East Chicago Street Milwaukee, WI 53202
	F	(414) 271-5350 www.eua.com Project Manager Rob Beisenstein
		DIRECT PHONE: 414-291-8145 EMAIL ADDRESS: robb@eua.com
		<b>WHealth</b>
		KRUPP
P10, ;2,		GENERAL CONTRACTORS
		Affiliated Engineers®
	E	
	E	PIERCE ENGINEERS, INC.
		PROJECT INFORMATION
		750 UNIVERSITY ROW EXPANSION
	D	750 University Row
RAMP UP	U	Madison, WI 53705
		ISSUANCE AND REVISIONS
		DATEDESCRIPTION05/15/2023UDC & LAND USE
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	•	
		KEY PLAN
		A B E
	В	
		SHEET INFORMATION
		PROGRESS DOCUMENTS NOT FOR CONSTRUCTION
		These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.
	Α	PROJECT MANAGER RB PROJECT NUMBER 422291
KING SUBLEVEL 2		
1'-0" 0' 4' 8' 16' 32' SCALE: 1/16" = 1'-0"		OVERALL P2 FLR PLAN
		AP1P2
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A1 2ND FLR PLAN - OVERALL



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750 UNIVERSITY ROW EXPANSION

# D 750 University Row Madison, WI 53705

	ISSUANCE AND REVISIONS
	DATE DESCRIPTION
С	
	KEY PLAN
В	
	SHEET INFORMATION
	PROGRESS DOCUMENTS NOT FOR CONSTRUCTION These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.
Α	PROJECT MANAGERRBPROJECT NUMBER422291
	OVERALL 2ND FLR PLAN

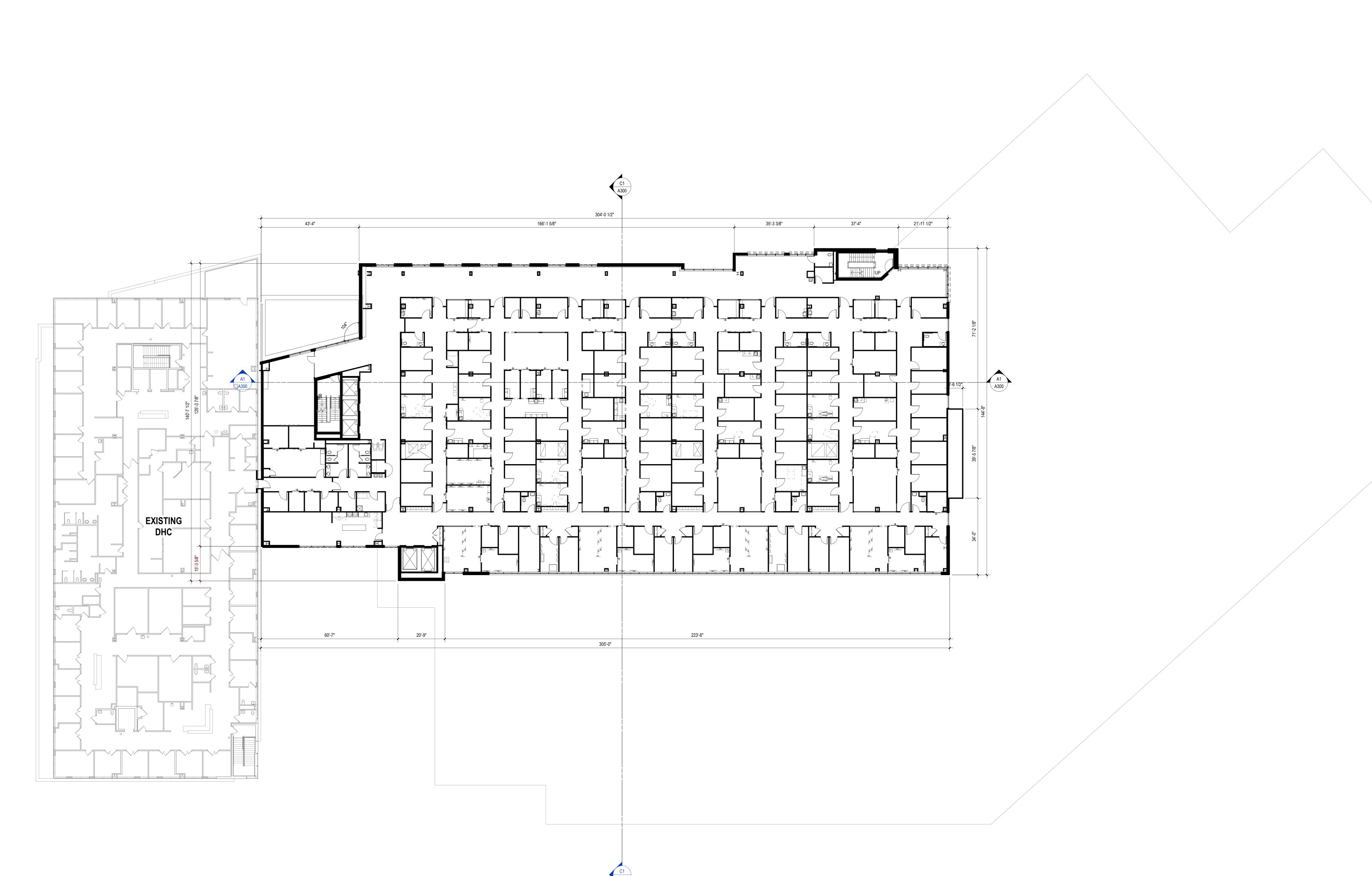
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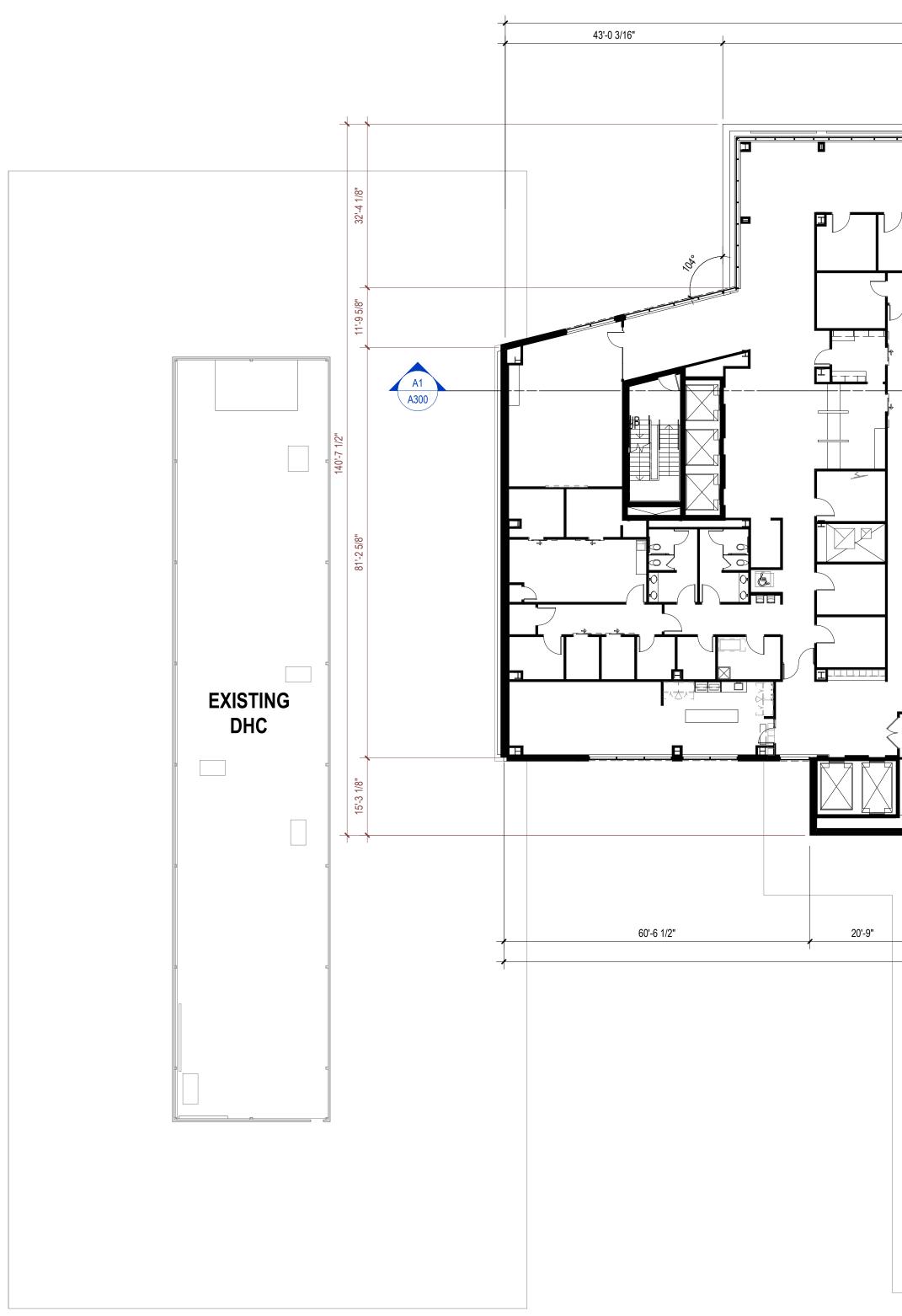
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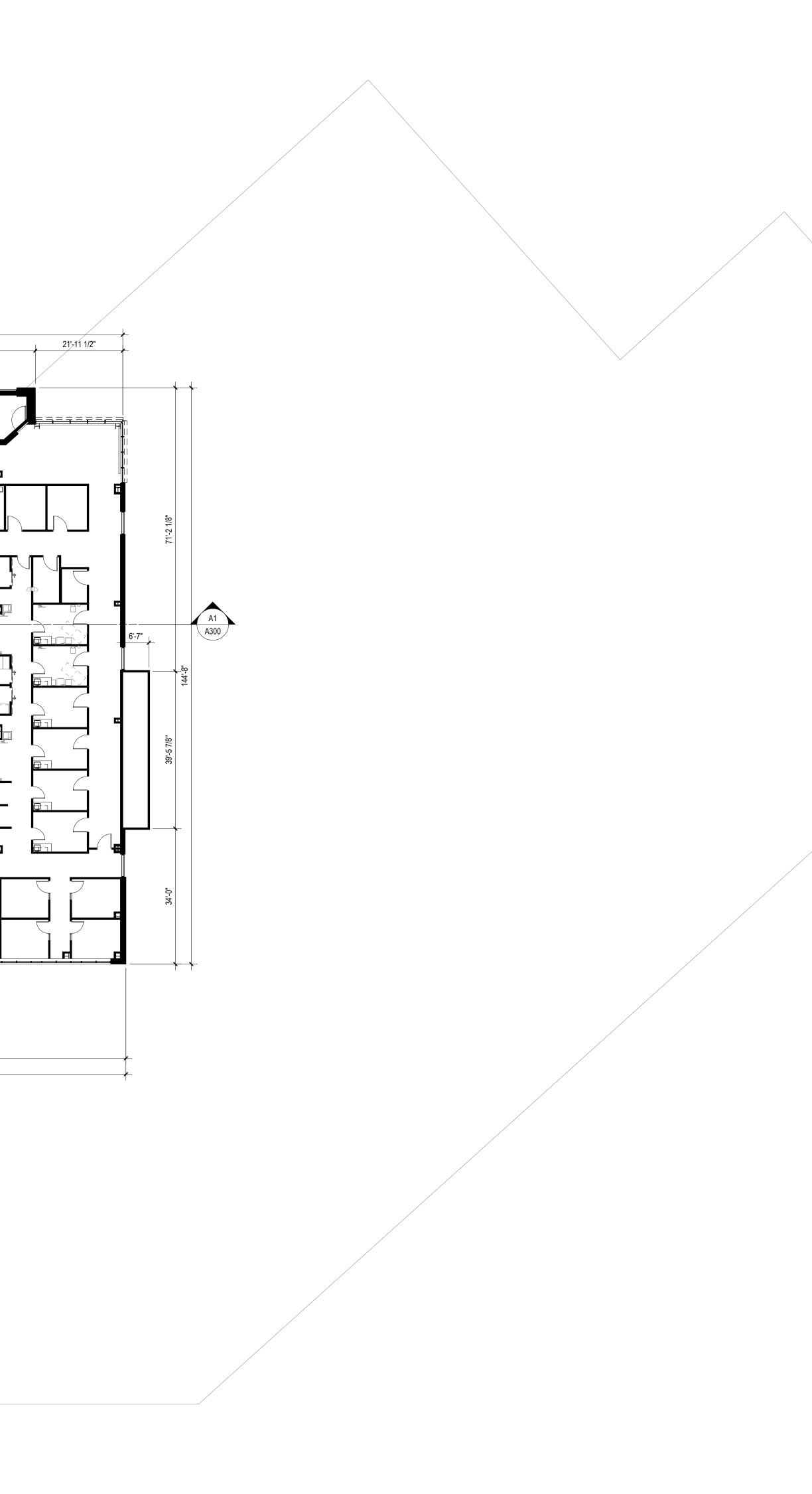


A1 3RD FLR PLAI

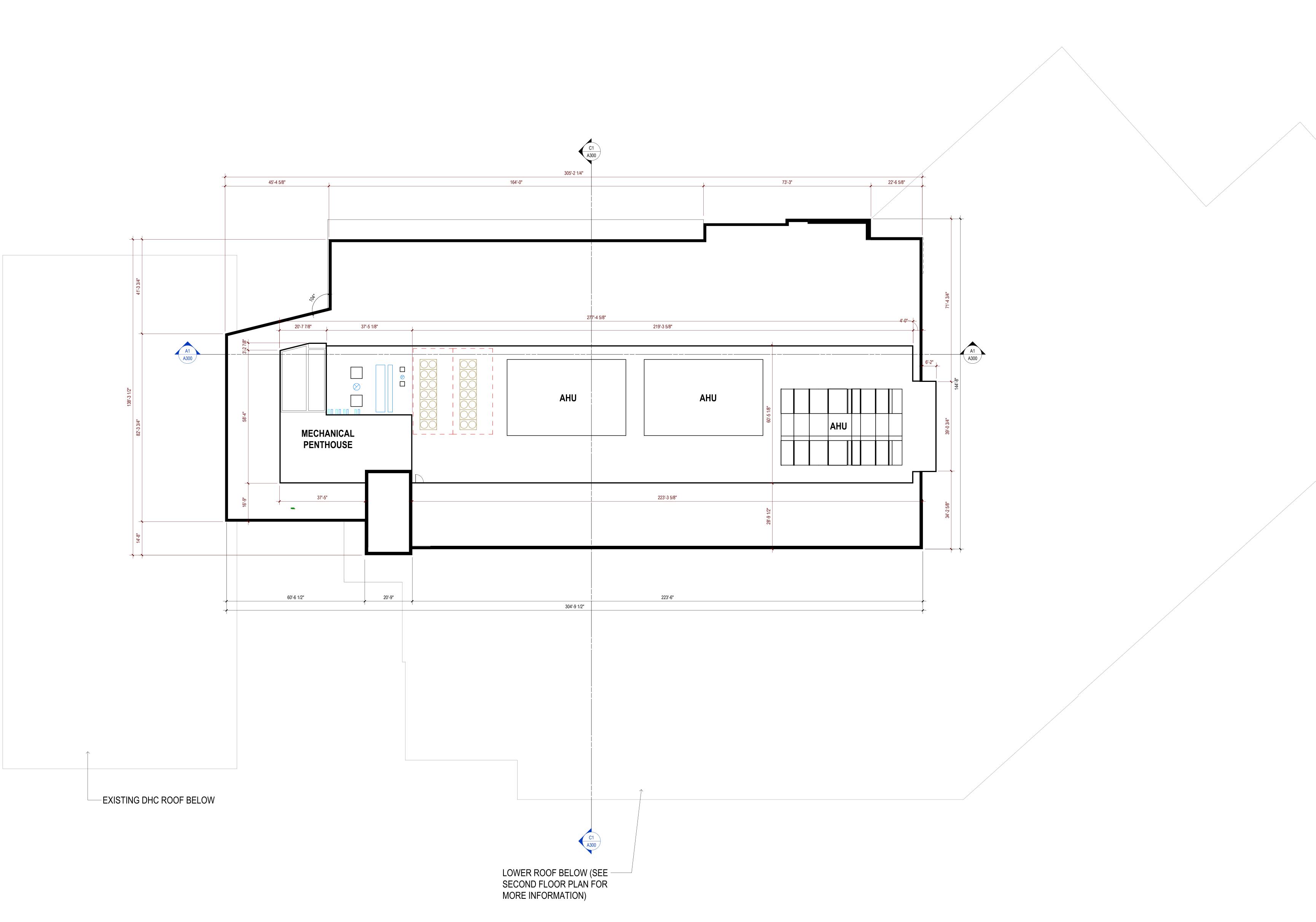
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	milwaukee   madison   green bay   denver   333 East Chicago Street Milwaukee, WI 53202 (414) 271-5350	atlanta
	www.eua.com Project Manager Rob Beisens DIRECT PHONE: 414-291-814 EMAIL ADDRESS: robb@eua.c	5
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	Affiliated Engineers <sup>®</sup>	
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	PIERCE ENGINEERS, INC.	
	PROJECT INFORMATION	
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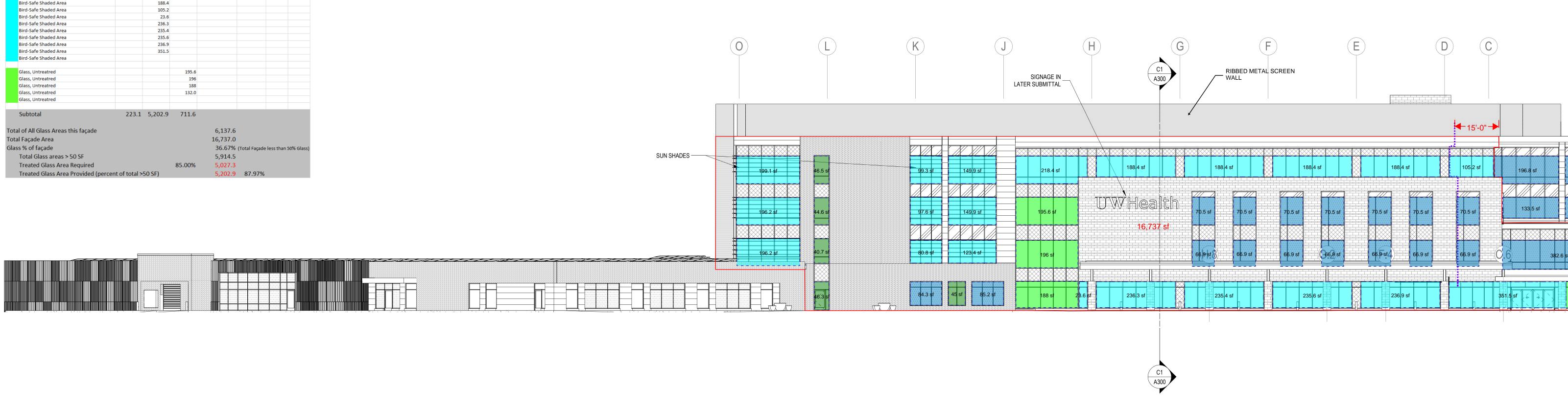




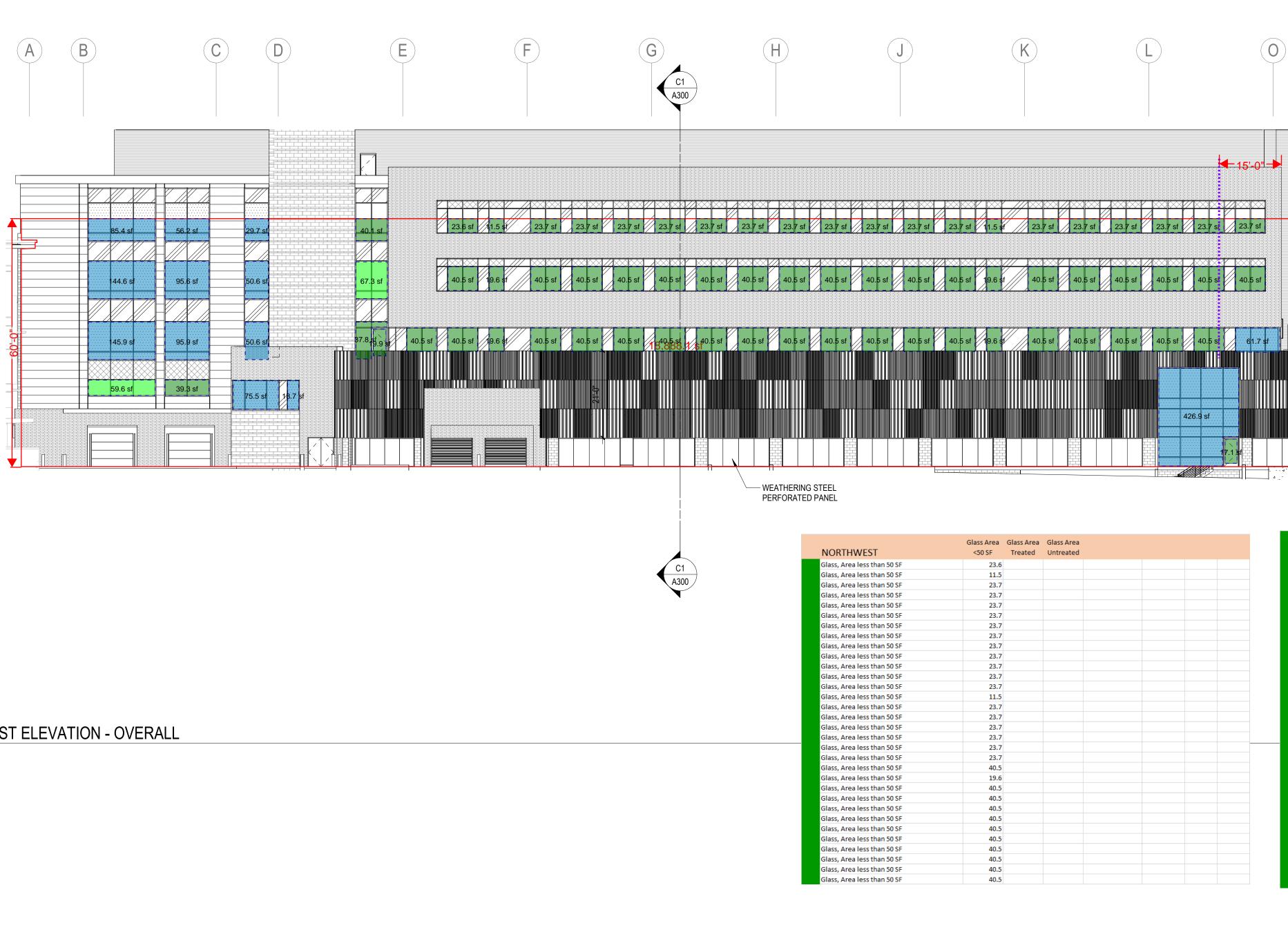
A1 ROOF PLAN -1/16" = 1'-0"

		milwaukee   madison   green bay   denver   atlanta
	F	333 East Chicago Street Milwaukee, WI 53202 (414) 271-5350
		www.eua.com Project Manager Rob Beisenstein
		DIRECT PHONE: 414-291-8145 EMAIL ADDRESS: robb@eua.com
		<b>UWHealth</b>
		KRUPP
		GENERAL CONTRACTORS
		Affiliated Engineers <sup>®</sup>
	Е	
	E	PIERCE ENGINEERS, INC.
		750 UNIVERSITY ROW EXPANSION
	D	750 University Row Madison, WI 53705
		ISSUANCE AND REVISIONS
		DATE DESCRIPTION 05/15/2023 UDC & LAND USE
	С	
		KEY PLAN
		C
		A B E
	_	TRUE
	В	
		SHEET INFORMATION
		PROGRESS DOCUMENTS NOT FOR CONSTRUCTION
		These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be
		used for final bidding or construction-related purposes.
		PROJECT MANAGER RB
	Α	PROJECT NUMBER 422291
I - OVERALL		
0' 4' 8' 16' 32' SCALE: 1/16" = 1'-0"		OVERALL ROOF PLAN
		AP105
8		© 2023 Eppstein Uhen Architects, Inc.

OUTHEAST	Glass Area <50 SF	Glass Area Treated	Glass Area Untreated					
ass, Area less than 50 SF	46.5							
ilass, Area less than 50 SF	44.6							
ilass, Area less than 50 SF	40.7							
ilass, Area less than 50 SF	46.3							
ilass, Area less than 50 SF	45.0							
ird-Safe Dot Pattern Area								
ird-Safe Dot Pattern Area		85.2						
ird-Safe Dot Pattern Area		84.3						
ird-Safe Dot Pattern Area		70.5						
ird-Safe Dot Pattern Area		66.9						-
ird-Safe Dot Pattern Area		70.5						
ird-Safe Dot Pattern Area		66.9						
ird-Safe Dot Pattern Area		70.5						
ird-Safe Dot Pattern Area		66.9						
ird-Safe Dot Pattern Area		70.5						
ird-Safe Dot Pattern Area		66.9						
ird-Safe Dot Pattern Area		70.5						
ird-Safe Dot Pattern Area		66.9						
ird-Safe Dot Pattern Area		70.5						
ird-Safe Dot Pattern Area		66.9						
ird-Safe Dot Pattern Area		70.5						
ird-Safe Dot Pattern Area		66.9						
ird-Safe Dot Pattern Area		382.6						
ird-Safe Shaded Area		199.1						
ird-Safe Shaded Area		196.2						
ird-Safe Shaded Area		196.2						
ird-Safe Shaded Area		99.3						
ird-Safe Shaded Area		97.6						
ird-Safe Shaded Area		80.9						
ird-Safe Shaded Area		149.9						
ird-Safe Shaded Area		149.9						
ird-Safe Shaded Area		123.4						
ird-Safe Shaded Area		218.4						
ird-Safe Shaded Area		188.4						
ird-Safe Shaded Area		188.4						
ird-Safe Shaded Area		188.4						
ird-Safe Shaded Area		188.4						
ird-Safe Shaded Area		105.2						
ird-Safe Shaded Area		23.6						
ird-Safe Shaded Area		236.3						
ird-Safe Shaded Area		235.4						
ird-Safe Shaded Area		235.6						
ird-Safe Shaded Area		236.9						
ird-Safe Shaded Area		351.5						
ird-Safe Shaded Area								
ilass, Untreatred			195.6					
ilass, Untreatred			196					
lass, Untreatred			188					
ass, Untreatred	_		132.0					
lass, Untreatred								
1								
btotal All Glass Areas this façade açade Area	223.1	5,202.9	711.6	6,137.6 16,737.0 26,67%	(Total Faced	- loss they	50% Class)	
% of façade					(Total Façad	e less thar	1 50% Glass)	
otal Glass areas > 50 SF				5,914.5				
reated Glass Area Required			85.00%	5,027.3				



D1 SOUTHEAST ELEVATION - OVERALL



A1 NORTHWEST ELEVATION - OVERALL

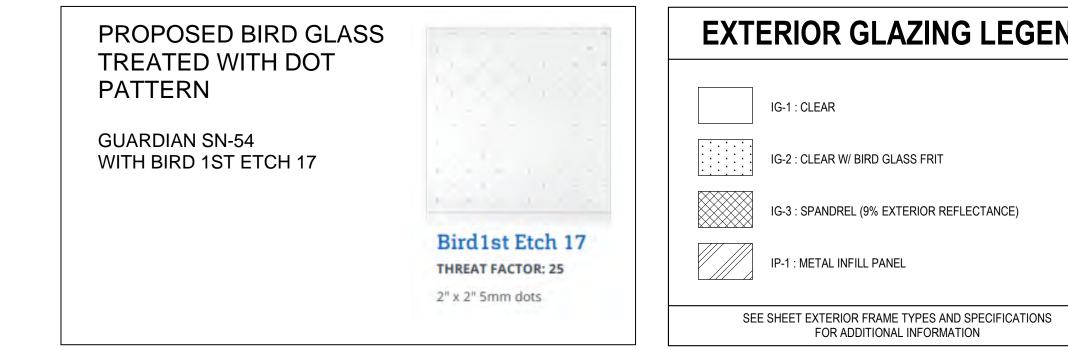
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Bird-Safe Shade Area Bird-Safe Dot Pattern Area Glass, Area less than 50 SF Glass, Untreated

3

2

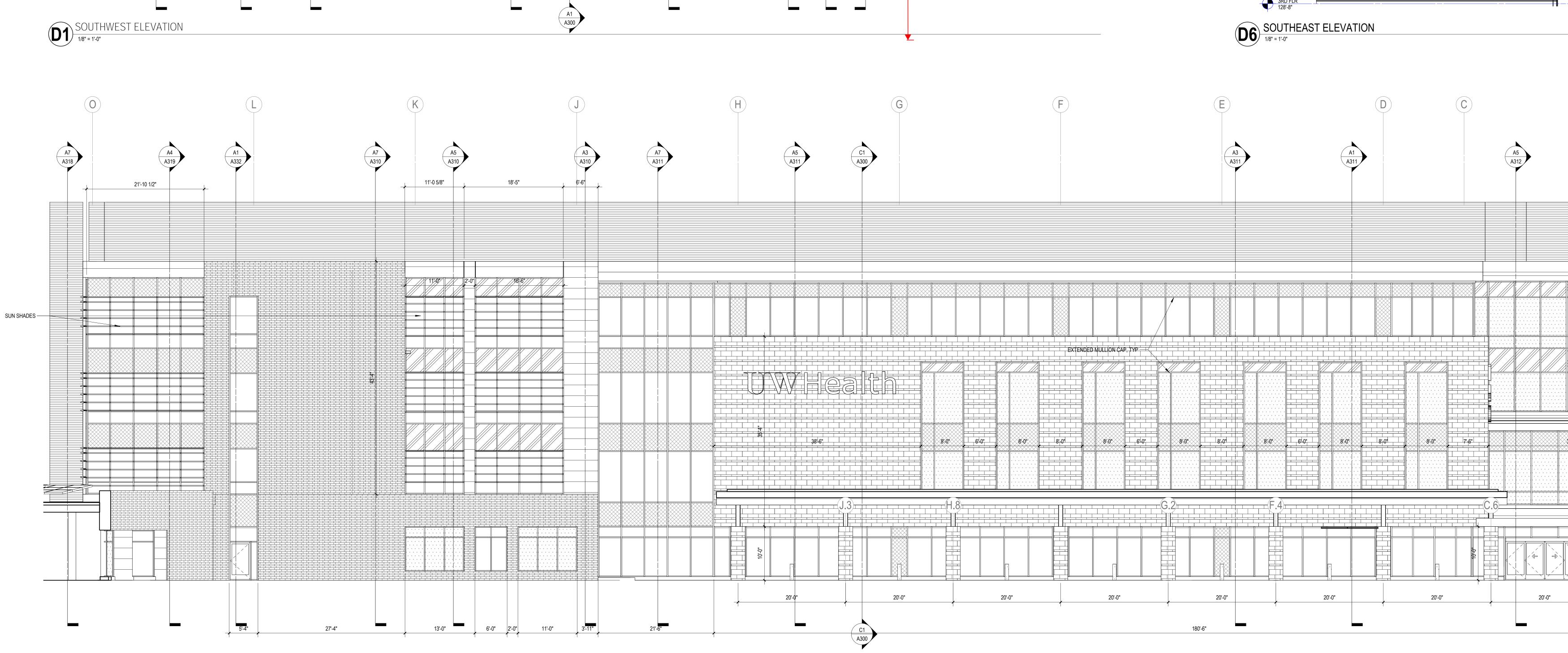
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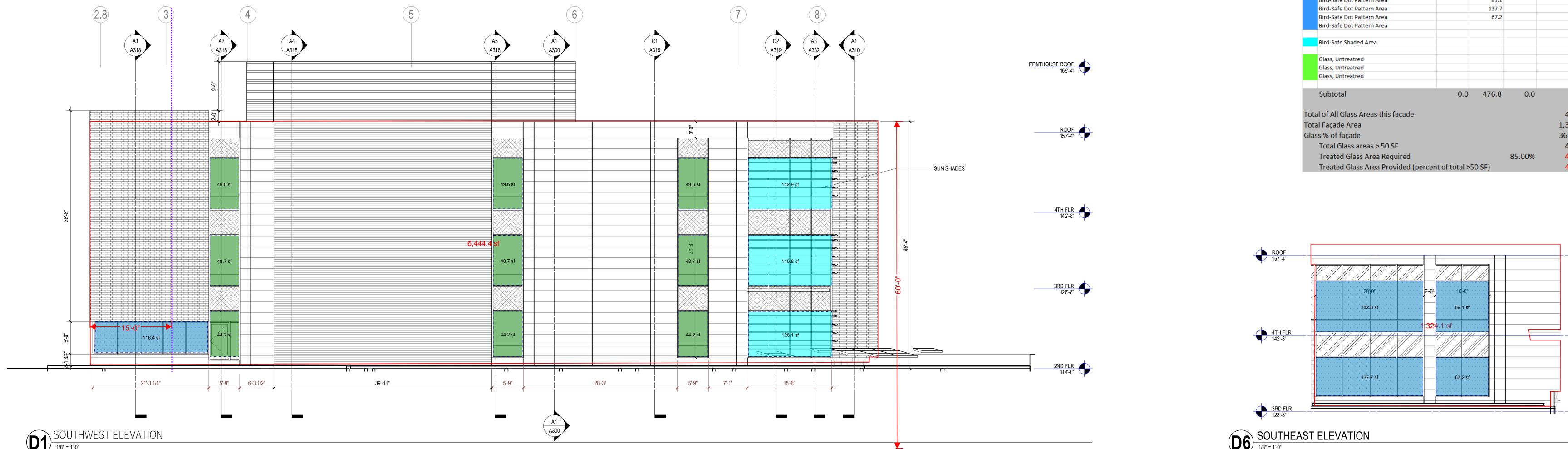


	PROPOSED BIRD GLASS TREATED WITH DOT		EXTERIOR GLAZ	ING LEGEND	EXTERIOR MATERIAL L	EGEND	
	PATTERN GUARDIAN SN-54 WITH BIRD 1ST ETCH 17		IG-1 : CLEAR	RIT	STONE VENEER BRICK		euic
		Bird1st Etch 17 THREAT FACTOR: 25	IG-3 : SPANDREL (9% EXTERIO	OR REFLECTANCE)	METAL COMPOSITE MATERIAL PANEL SEE SHEET A000 FOR EXTERIOR ASSEMBLY INFOR	MATION	milwaukee   madison   green bay   denver   atlanta 333 East Chicago Street Milwaukee, WI 53202
		2" x 2" 5mm dots	SEE SHEET EXTERIOR FRAME TYPE FOR ADDITIONAL INFO	ES AND SPECIFICATIONS ORMATION		F	(414) 271-5350 www.eua.com Project Manager DIRECT PHONE: 414-291-8145
							EMAIL ADDRESS: robb@eua.com
							<b>KRUPP</b> GENERAL CONTRACTORS
J	H G RIBBED	F METAL SCREEN	D C	B			Affiliated Engineers <sup>®</sup>
SIGNAGE IN LATER SUBMITTAL	A300 WALL				PENT	10USE ROOF 169'-4"	
D sf 218.4 sf	188.4 sf	188.4 sf	188.4 sf	196.8 sf		ROOF 157'-4"	PIERCE ENGINEERS, INC.
9 st 195.6 sf	TTWHEATCH 70.5 sf 70.5 sf 70.5 sf	sf 70.5 sf 70.5 sf	70.5 sf 70.5 sf	133.5 sf		4TH FLR 142'-8"	PROJECT INFORMATION
H Sf 196 Sf	16,737 sf 66,9 sf 8 66.9 s	sf 66.9 sf 66.9 sf	66.9 st 66.9 st C	6 382.6 sf		3RD FLR 128'-8" 2ND FLR 114'-0"	750 UNIVERSITY ROW EXPANSION
85.2 sf	3.6 sf 236.3 sf 235.4 sf	235.6 sf	236.9 sf	51.5 sf 🔶 🔶 132 sf		1ST FLR 100'-0"	
	C1				_	P1 89'-0" <b>D</b> 78'-6" <b>D</b>	750 University Row Madison, WI 53705
	A300				_	P3 68'-0"	Wadison, WI 53705
							ISSUANCE AND REVISIONS         DATE       DESCRIPTION         04/28/2023       SCHEMATIC DESIGN
						С	
0							
					PENTHOUSE ROOF 169'-4"		
							KEY PLAN
					4TH FLR 142'-8"		
					3RD FLR 128'-8"		
					2ND FLR 114'-0" 1ST FLR 100'-0"	В	
	4' x 7' PERFORATED WEA				P1 89'-0"		
Glass, Area less than 50 SF Glass, Area less than 50 SF Glass, Area less than 50 SF Glass, Area less than 50 SF	40.5 19.6 40.5 40.5	Bird-Safe Do Bird-Safe Do Bird-Safe Do Bird-Safe Do	ot Pattern Area 85.4 ot Pattern Area 144.6 ot Pattern Area 145.9 ot Pattern Area 56.2 ot Pattern Area 95.6		P2 78'-6" P3 68'-0"		
Glass, Area less than 50 SF Glass, Area less than 50 SF	40.5       40.5       40.5       40.5       40.5       40.5       40.5       19.6	Bird-Safe Do Bird-Safe Do Bird-Safe Do Bird-Safe Do Bird-Safe Do Bird-Safe Do Bird-Safe Do Bird-Safe Do	ot Pattern Area 95.9 ot Pattern Area 95.9 ot Pattern Area 50.6 ot Pattern Area 50.6 ot Pattern Area 13.7 ot Pattern Area 13.7	Image: selection of the selection			PROGRESS DOCUMENTS NOT FOR CONSTRUCTION These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.
Glass, Area less than 50 SF Glass, Area less than 50 SF	40.5       40.5       40.5       40.5       40.5       40.5       40.5       40.5	Bird-Safe Do Bird-Safe Do	at Pattern Area 61.7 tt Pattern Area 426.9 tt Pattern Area				PROJECT MANAGER RB
Glass, Area less than 50 SF Glass, Area less than 50 SF	40.5	Glass, Untre Glass, Untre Glass, Untre Glass, Untre Glass, Untre Glass, Untre Glass, Untre Subtotal	atred	59.6		— A	PROJECT NUMBER 422291 EXTERIOR
Glass, Area less than 50 SF Glass, Area less than 50 SF	40.5       40.5       40.5       39.3       40.1       37.8       19.9       17.1	Total of All Gla Total Façade A Glass % of faç Total Glas	ss Areas this façade rea ade s areas > 50 SF	3,599.3 18,888.1 19.06% (Total Façade less than 1,459.2	n 50% Glass)		ELEVATIONS - OVERALL
Glass, Area less than 50 SF Glass, Area less than 50 SF Glass, Area less than 50 SF			lass Area Required lass Area Provided (percent of total >50 SF)	85.00% 1,240.3 1,332.3 91.30%			© 2023 Eppstein Uhen Architects, Inc.
5		6	7		8		



1





	Glass Area	Glass Area	Glass Area				
SOUTHWEST	<50 SF	Treated	Untreated				
Glass, Area less than 50 SF	49.6						
Glass, Area less than 50 SF	48.7						
Glass, Area less than 50 SF	44.2						
Glass, Area less than 50 SF	49.6						
Glass, Area less than 50 SF	48.7						
Glass, Area less than 50 SF	44.2						
Glass, Area less than 50 SF	49.6						
Glass, Area less than 50 SF	48.7						
Glass, Area less than 50 SF	44.2						
Glass, Area less than 50 SF							
Bird-Safe Dot Pattern Area		116.4					
Bird-Safe Dot Pattern Area							
Bird-Safe Dot Pattern Area							
Bird-Safe Shaded Area		142.9					
Bird-Safe Shaded Area		140.8					
Bird-Safe Shaded Area		126.1					
Glass, Untreatred							
Glass, Untreatred							
Subtotal	427.5	526.2	0.0				
otal of All Glass Areas this façade				953.7			
otal Façade Area				6,444.4			
-				-			
ilass % of façade					(Total Façado	e less than	50% Glass
Total Glass areas > 50 SF				526.2			
Treated Glass Area Required			85.00%	447.3			
Treated Glass Area Provided (per		526.2	100.00%				

3 

2

4

I

Bird-Safe Shade Area Bird-Safe Dot Pattern Area Glass, Area less than 50 SF Glass, Untreated

### **EXTERIOR GLAZING LEGEN**

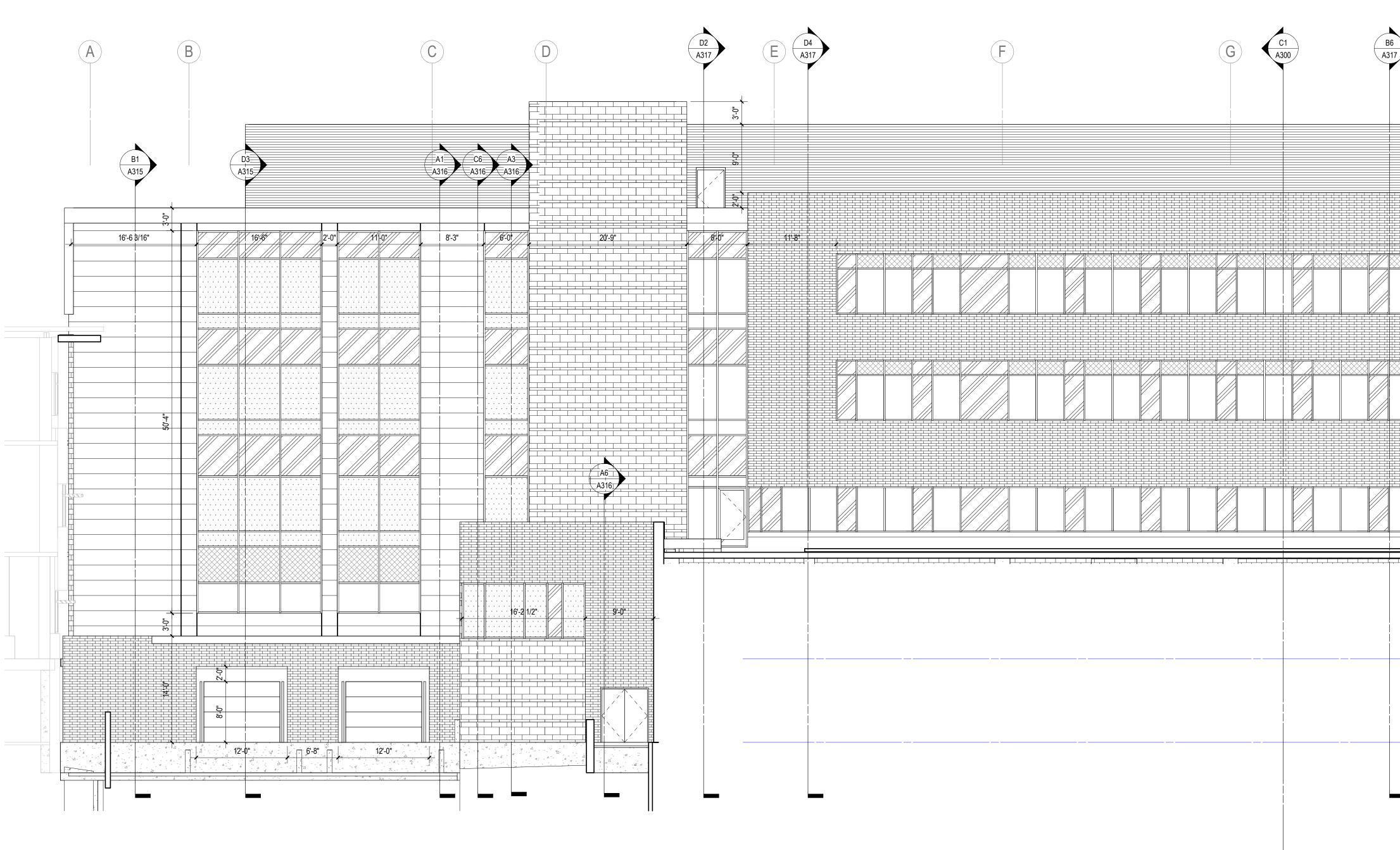
IG-1 : CLEAR . . IG-2 : CLEAR W/ BIRD GLASS FRIT IG-3 : SPANDREL (9% EXTERIOR REFLECTANCE) IP-1 : METAL INFILL PANEL

Glass Area Glass Area Glass Area DHC ANGLE (SE) <50 SF Treated Untreated Glass, Area less than 50 SF Glass, Area less than 50 SF Bird-Safe Dot Pattern Area 182.8 Bird-Safe Dot Pattern Area 89.1

5

6

	GLAZ	ING LEGEND				RIAL LEGEND		
IG-1 : CLEAR	W/ BIRD GLASS				ONE VENEER			
· <u>· · · · ·</u>		OR REFLECTANCE)			TAL COMPOSITE MATERI	AL PANEL		
IP-1 : METAL I				SEE SHE	ET A000 FOR EXTERIOR	ASSEMBLY INFORMATION		milwaukee   madison   green bay   denver   atlanta 333 East Chicago Street Milwaukee, WI 53202
	RIOR FRAME TYP ADDITIONAL INF	PES AND SPECIFICATIONS FORMATION					' F	(414) 271-5350 www.eua.com
								Project ManagerRob BeisensteinDIRECT PHONE:414-291-8145EMAIL ADDRESS:robb@eua.com
								<b>UWHealth</b>
								KRUPP
Glass Area <50 SF		Glass Area Untreated			_			GENERAL CONTRACTORS
	182.8							Affiliated Engineers <sup>®</sup>
	137.7 67.2							
							Е	
								PIERCE ENGINEERS, INC.
0.0	476.8	0.0 476.8	2					
		1,324.1 36.01%	l 6 (Total Façade	e less than 50% Glass	5)			
(percent of total	>50 SF)	476.8 85.00% 405.3 476.8						PROJECT INFORMATION
								750 UNIVERSITY ROW EXPANSION
	1		ROOF 157'-4"					
			107 -4					750 Linivaraity Davy
2'-0" 10-0	sf						D	750 University Row Madison, WI 53705
1,324.1 sf			142'-8"					
67.2 ·	sf							ISSUANCE AND REVISIONS
			RD FLR 128'-8"					DATE DESCRIPTION
								04/28/2023 SCHEMATIC DESIGN
C				B	A			
	, ,						С	
	(	A5 A312			C4 A312			
						PENTHOUSE ROOF 169'-4"		
								KEY PLAN
						ROOF 157'-4"		
						4TH FLR 142'-8"		
							В	
8-0 7-6		39:0"			5'-6"	3RD FLR 128'-8"		
								SHEET INFORMATION
						2ND FLR 114'-0"		PROGRESS DOCUMENTS
						114'-0"		NOT FOR CONSTRUCTION These documents reflect progress and intent and may
								be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.
						1ST FLR 100'-0"		
20'-0"		20'-0"	2'-8"				Α	PROJECT MANAGER RB PROJECT NUMBER 422291
					8'-0"	<u>-</u>		
								EXTERIOR ELEVATIONS
								A201
	7				8			© 2023 Eppstein Uhen Architects, Inc.



3

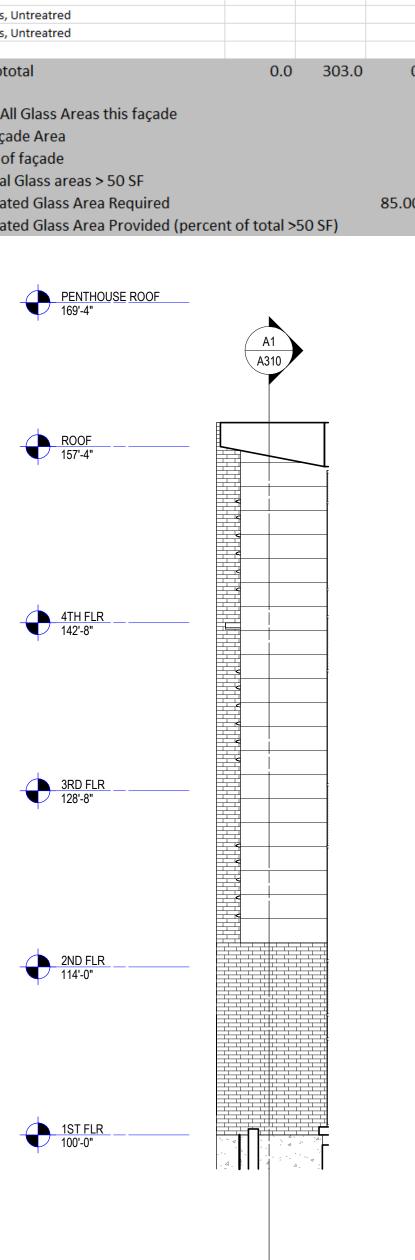
WEST ELEVATION - PARTIAL 01

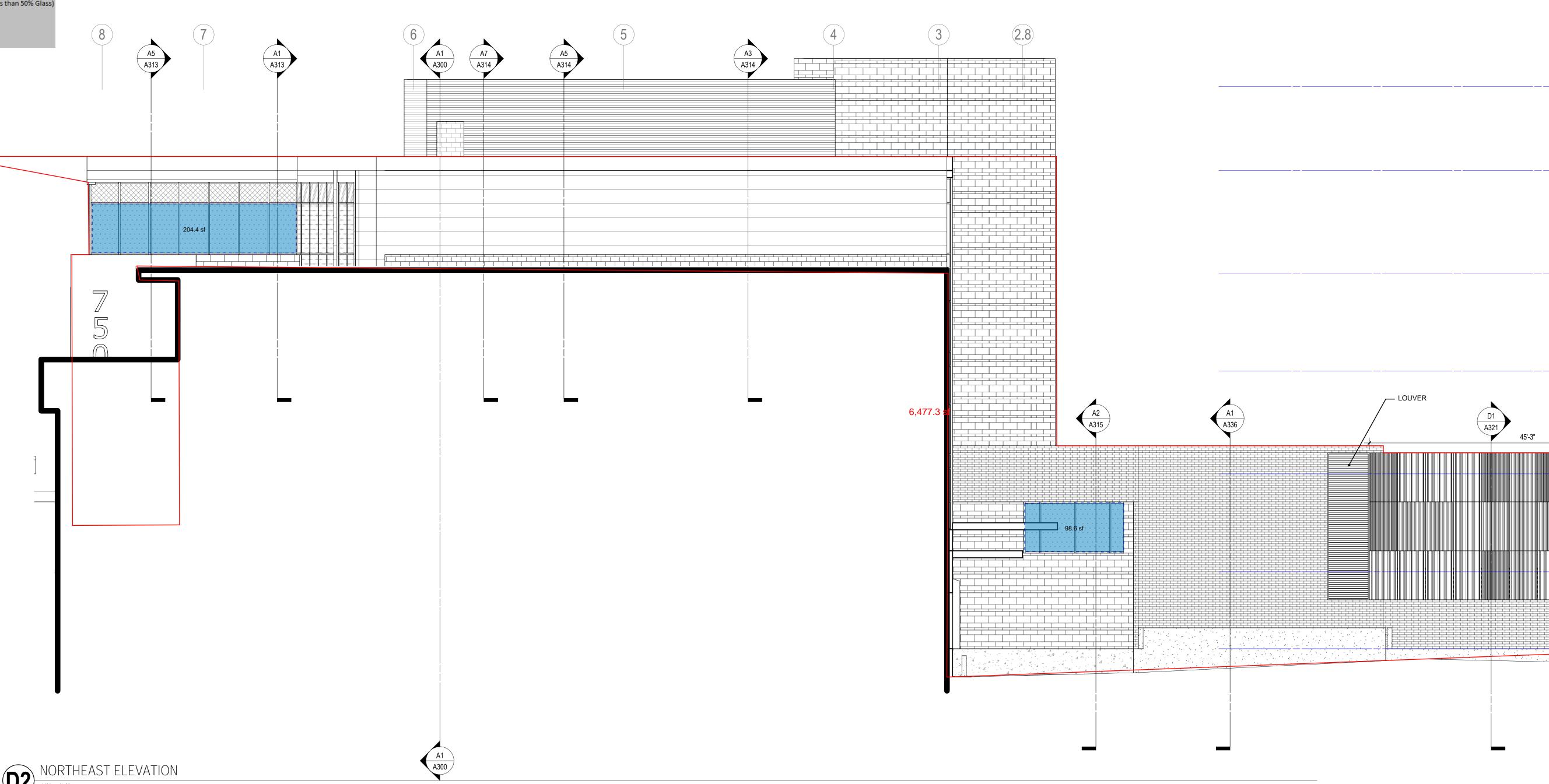
A1 SOUTHWEST ELEVATION

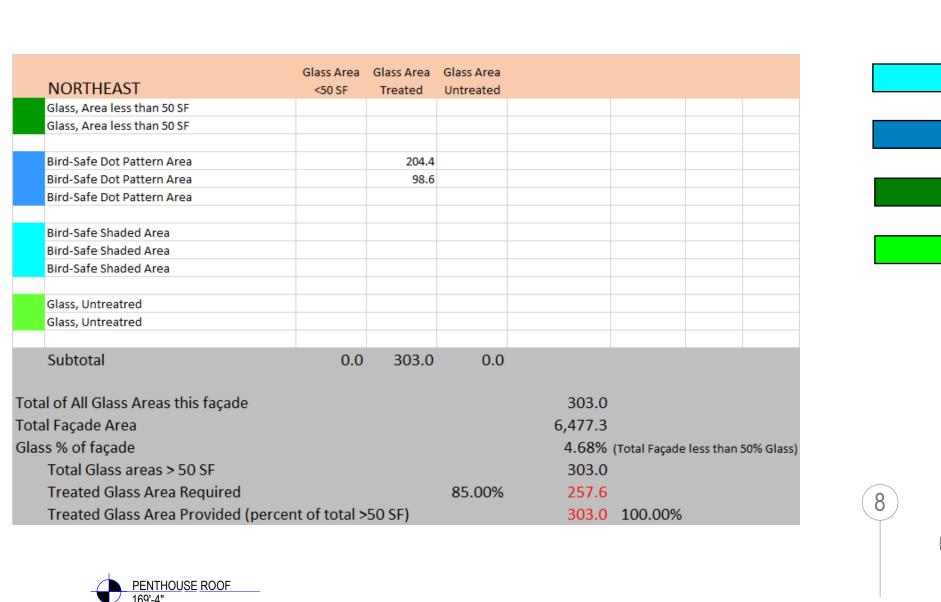
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NORTHEAST ELEVATION

2

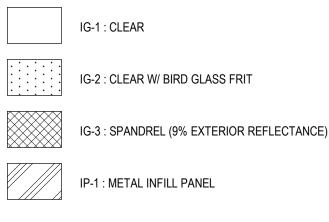




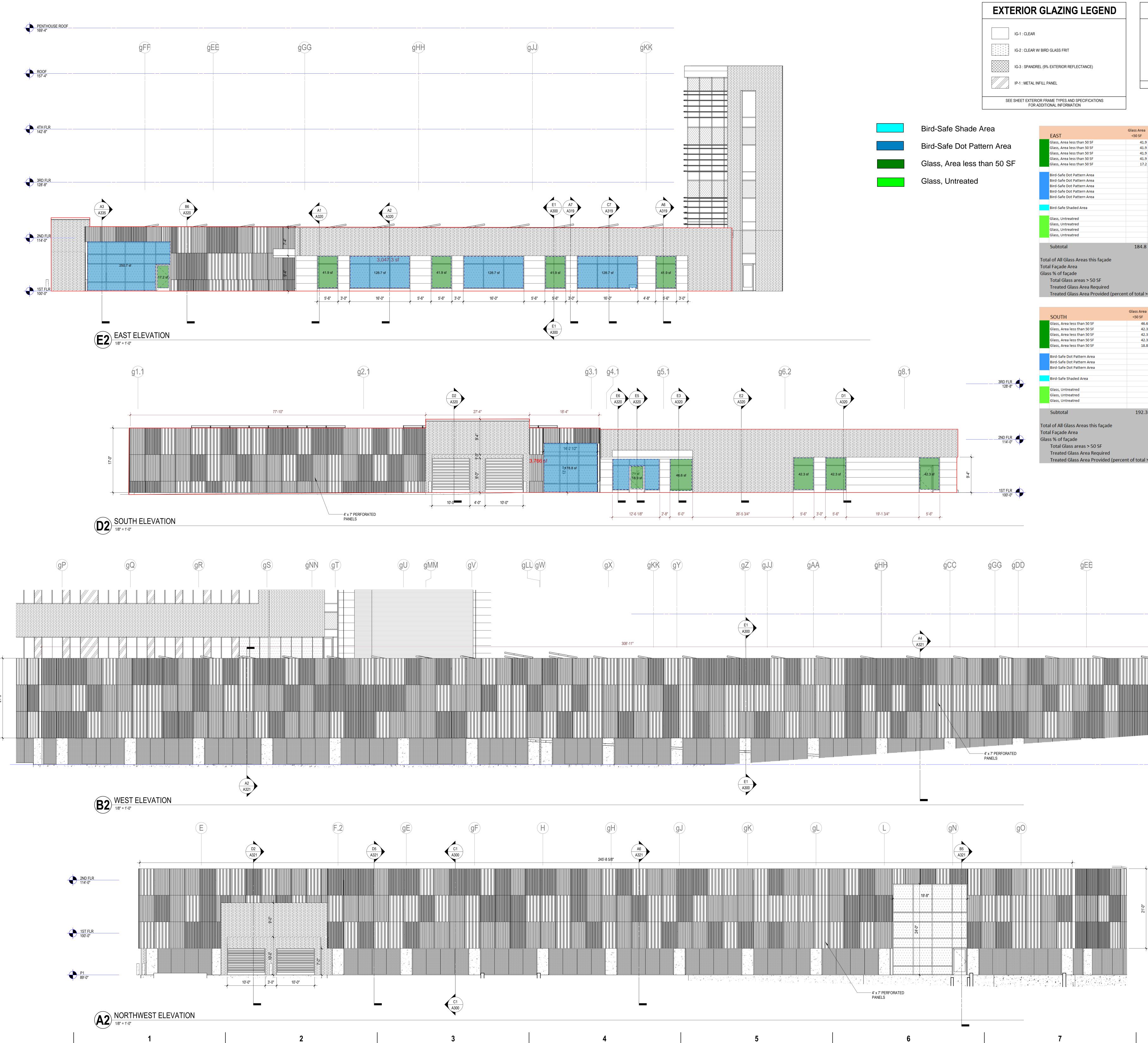


Bird-Safe Shade Area Bird-Safe Dot Pattern Area Glass, Area less than 50 SF Glass, Untreated

🕄 A300 /



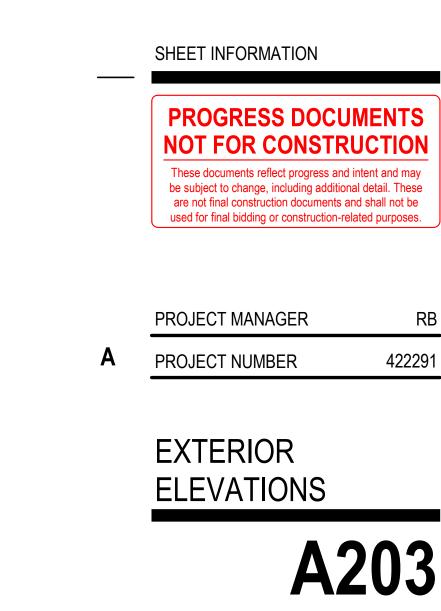
		EXTERIOR GLAZING LEGEND         IG-1: CLEAR         IG-2: CLEAR W/ BIRD GLASS FRIT         IG-3: SPANDREL (9% EXTERIOR REFLECTANCE)         IP-1: METAL INFILL PANEL         SEE SHEET EXTERIOR FRAME TYPES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION	EXTERSIOR MATERIAL LEGEND     Image: Distance     Imag	F       Topological and the provided the pr
			PENTHOUSE ROOF 169'4" ROOF 157'4" 157'4"	<image/> <text><text><text></text></text></text>
6,477.3 <b>s</b>		LOUVER D1 A5'-3"	3RD FLR 128'-8"	<ul> <li>PROJECT INFORMATION</li> <li>750 UNIVERSITY ROW EXPANSION</li> <li>750 University Row Madison, WI 53705</li> </ul>
				ISSUANCE AND REVISIONS
			PENTHOUSE ROOF 169-4"	C
			Image: state stat	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
5	6	7	8	APROJECT NUMBER42291EXERTIOR ELEVATIONSABAABAABABBB<



END			RIOR N STONE VENEER BRICK METAL COMPO	R SITE MATERIAL	PANEL		ND		milwaukee   madison   gra 333 East Chicago Stree Milwaukee, WI 53202 (414) 271-5350	
NS									www.eua.com Project Manager DIRECT PHONE:	Rob Beisenstein 414-291-8145
	Glass Area <50 SF 41.9		Glass Area Untreated						EMAIL ADDRESS:	robb@eua.com
	41.9 41.9 41.9									eaith
	17.2	250.7 128.7 128.7 128.7							GENERAL CO	
		0.0								liated
açade <del>.</del> ıired ided (percer	184.8 nt of total >5	636.8 50 SF)	0.0	636.8 541.3	(Total Façade 100.00%	less than 5	0% Glass)	E	PIECE ENGINEERS, INC.	
	<50 SF	Glass Area Treated	Glass Area Untreated							
	46.6 42.3 42.3 42.3								PROJECT INFORMA	ATION
	18.8	178.8							750 UNIVEI	RSITY
		71.0							ROW EXPA	NSION
açade F uired vided (perce	192.3 nt of total >	249.8 50 SF)	0.0	249.8 <mark>212.3</mark>	(Total Façad		50% Glass)	D	750 Univers Madison, W	
									ISSUANCE AND RE	
									DATE DI 04/28/2023 SCHEMATIC D	ESCRIPTION
		gff								
						<u>3RD FL</u> I 128'-8	<u>R</u> "	С		
						2ND FLI 114'-0	2		KEY PLAN	
						100'-C	2			
						P	1			

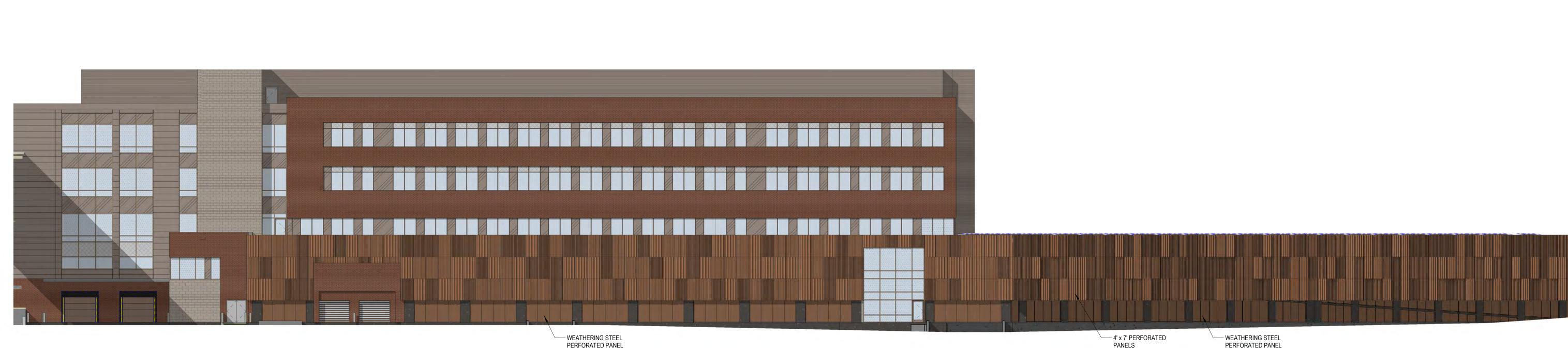
P1 89'-0"

8

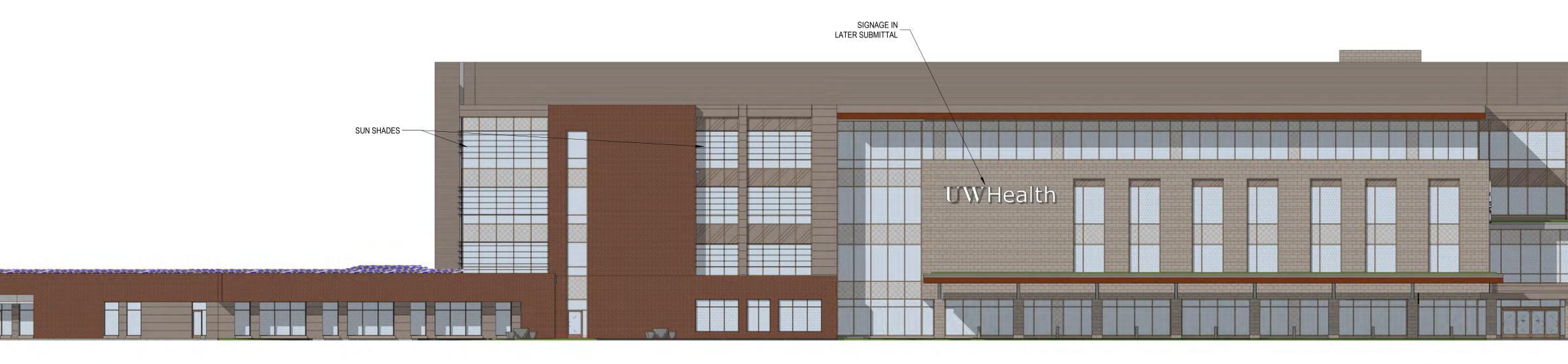


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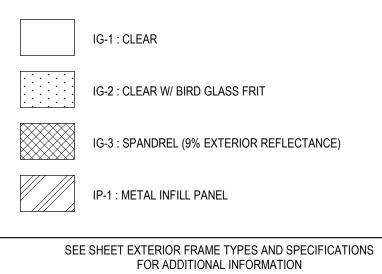
# A1 NORTHWEST ELEVATION - OVERALL



# D1 SOUTHEAST ELEVATION - OVERALL



## EXTERIOR GLAZING LEGE

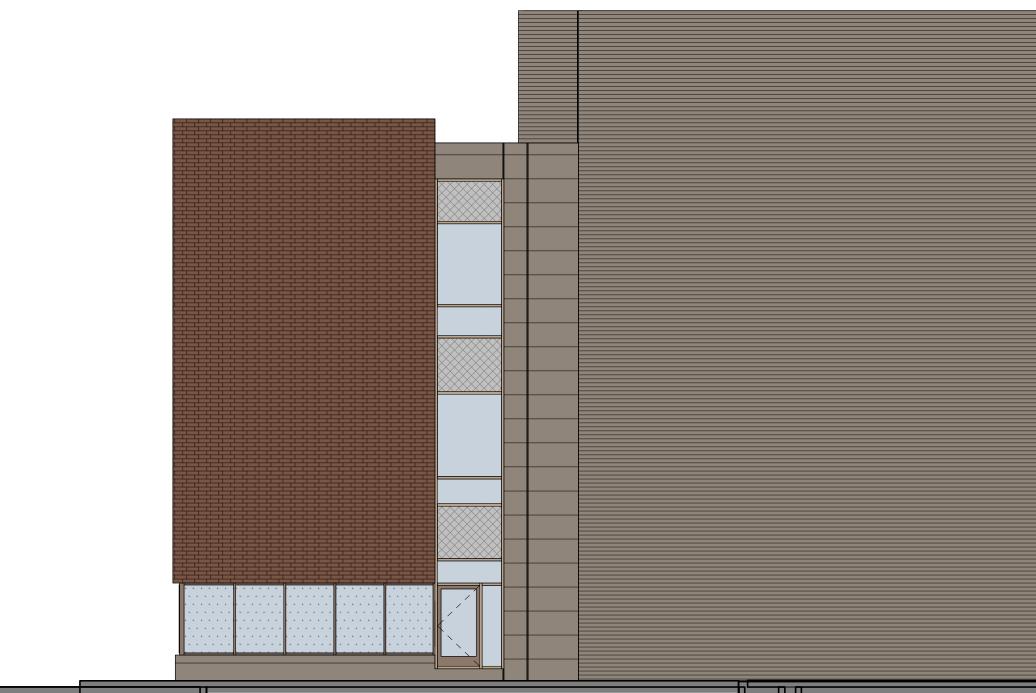


END	EXTERIOR MATERIAL LEGEND         Image: Distance         Distance         Image: Distan		milwaukee   madison   green bay   denver   atlanta 333 East Chicago Street
DNS	SEE SHEET A000 FOR EXTERIOR ASSEMBLY INFORMATION	F	Milwaukee, WI 53202 (414) 271-5350 www.eua.com
			Project ManagerRob BeisensteinDIRECT PHONE:414-291-8145EMAIL ADDRESS:robb@eua.com
			<b>UWHealth</b>
			<b>GENERAL CONTRACTORS</b>
			Affiliated Engineers
		E	PIERCE ENGINEERS, INC.
			PROJECT INFORMATION 750 UNIVERSITY
			ROW EXPANSION
		D	750 University Row Madison, WI 53705
			ISSUANCE AND REVISIONS           DATE         DESCRIPTION           04/28/2023         SCHEMATIC DESIGN
		С	
			KEY PLAN
		В	
			SHEET INFORMATION <b>PROGRESS DOCUMENTS DADA</b> Nese documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.
		A	PROJECT MANAGER RB PROJECT NUMBER 422291
			UDC ELEVATIONS - OVERALL
		_	AP200
	8		© 2023 Eppstein Uhen Architects, Inc.





# D1 SOUTHWEST ELEVATION



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$ = \begin{array}{ c c } \hline \\ \hline $		
		SUN SHADES

3

## EXTERIOR GLAZING LEGEND

IG-1 : CLEAR
IG-2 : CLEAR W/ BIRD GLASS FRIT
IG-3 : SPANDREL (9% EXTERIOR REFLECTANCE)
IP-1 : METAL INFILL PANEL

SEE SHEET EXTERIOR FRAME TYPES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION

# **D6** SOUTHEAST ELEVATION

6

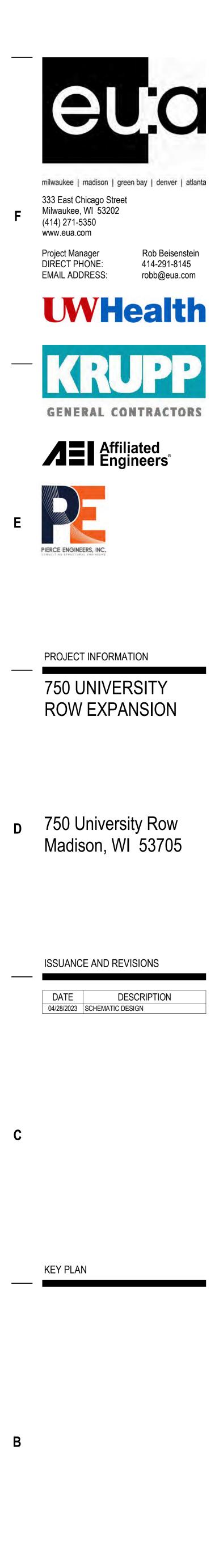


V	D	

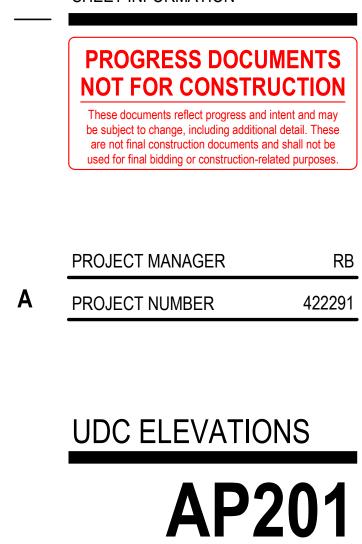
## EXTERIOR MATERIAL LEGEND

STONE VENEER BRICK \_\_\_\_\_ METAL COMPOSITE MATERIAL PANEL 

SEE SHEET A000 FOR EXTERIOR ASSEMBLY INFORMATION



SHEET INFORMATION

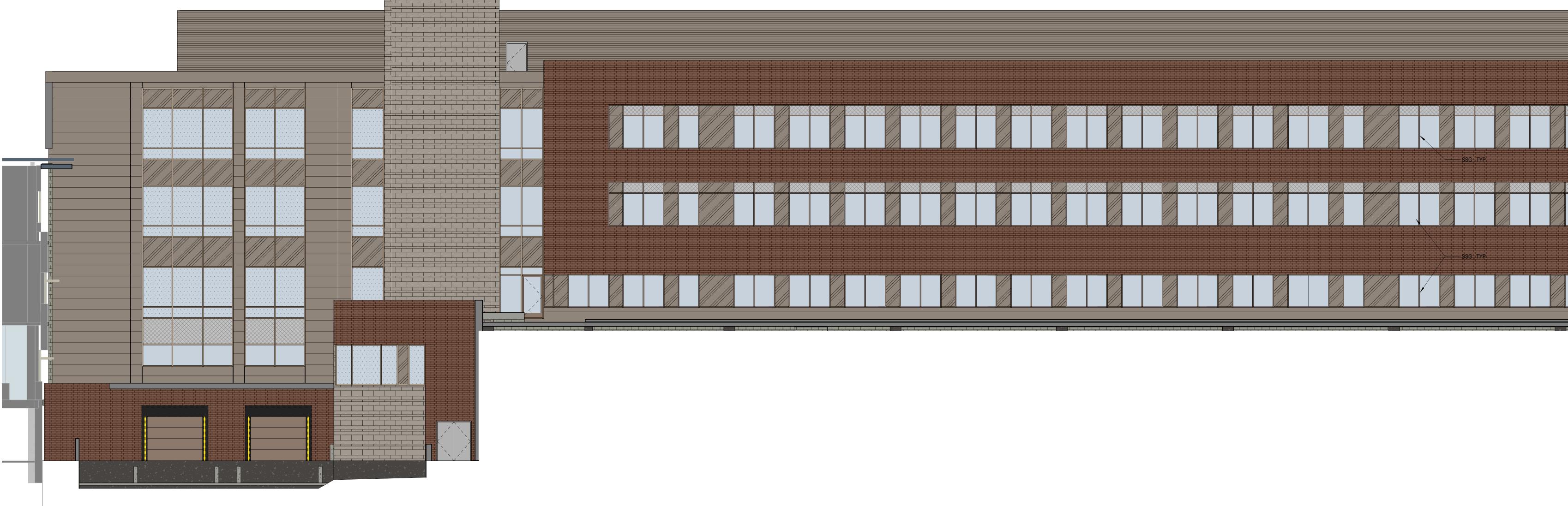


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8

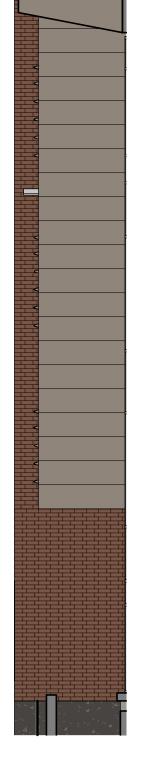
A1 NORTHWEST ELEVATION

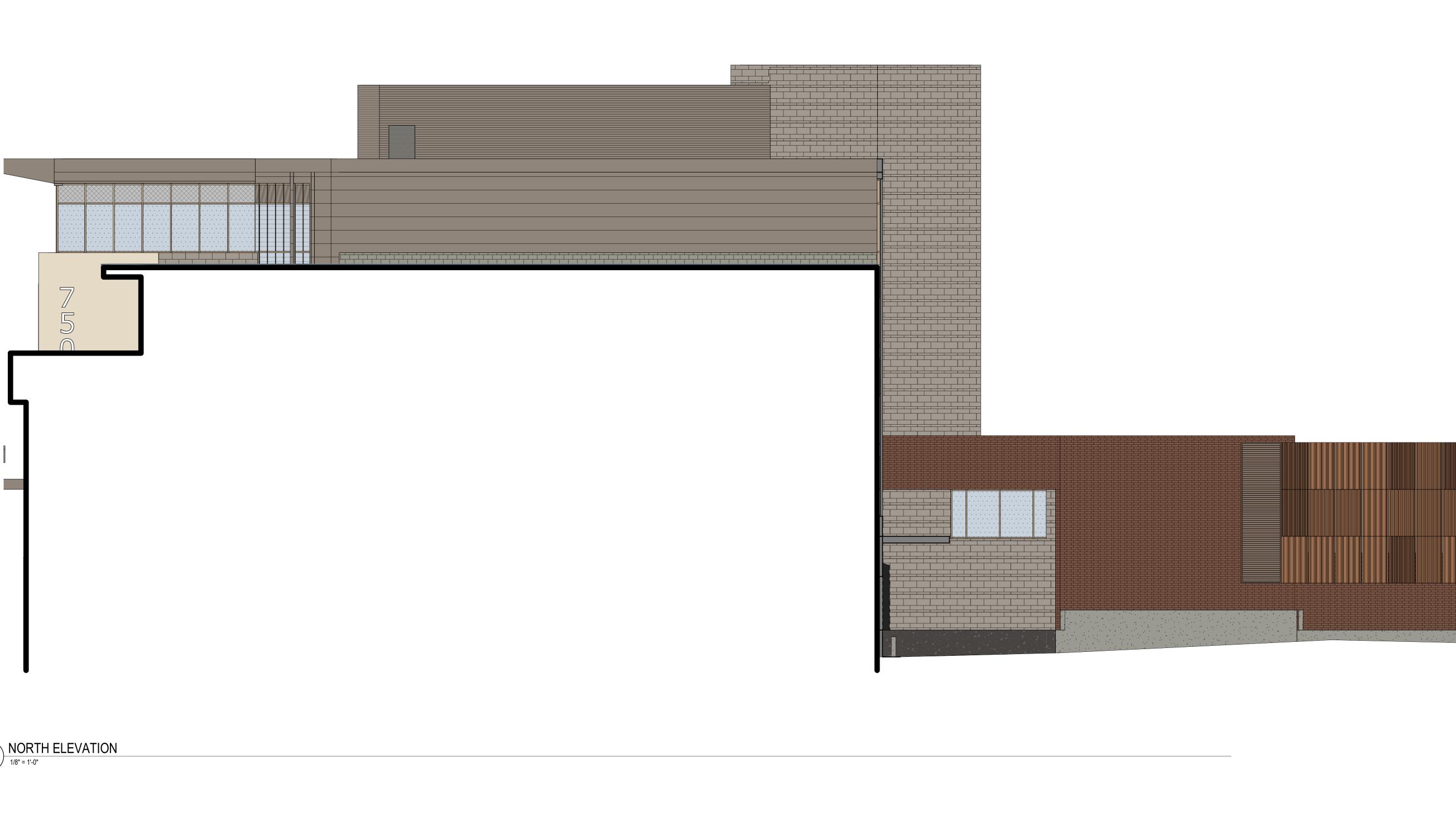
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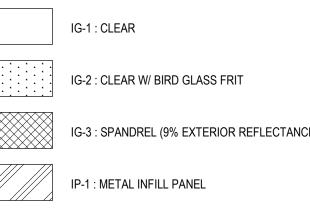
WEST ELEVATION

**D2** NORTH ELEVATION





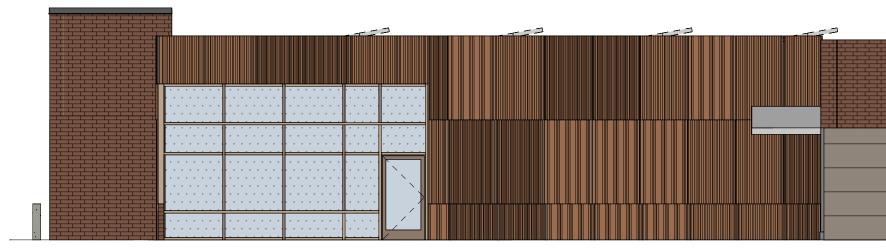
## EXTERIOR MATERIAL LEGEND EXTERIOR GLAZING LEGEND eu:c STONE VENEER IG-1 : CLEAR IG-2 : CLEAR W/ BIRD GLASS FRIT BRICK \_\_\_\_\_ IG-3 : SPANDREL (9% EXTERIOR REFLECTANCE) METAL COMPOSITE MATERIAL PANEL milwaukee | madison | green bay | denver | atlanta 333 East Chicago Street Milwaukee, WI 53202 IP-1 : METAL INFILL PANEL SEE SHEET A000 FOR EXTERIOR ASSEMBLY INFORMATION (414) 271-5350 SEE SHEET EXTERIOR FRAME TYPES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION www.eua.com Project Manager DIRECT PHONE: Rob Beisenstein 414-291-8145 EMAIL ADDRESS: robb@eua.com **WHealth** RUPP \_\_\_\_\_ GENERAL CONTRACTORS Affiliated Engineers® Ε PIERCE ENGINEERS, INC. PROJECT INFORMATION \_\_\_\_\_ 750 UNIVERSITY **ROW EXPANSION** D 750 University Row Madison, WI 53705 ISSUANCE AND REVISIONS DATEDESCRIPTION04/28/2023SCHEMATIC DESIGN С KEY PLAN SHEET INFORMATION \_\_\_\_\_ **PROGRESS DOCUMENTS** NOT FOR CONSTRUCTION These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes. PROJECT MANAGER RB A PROJECT NUMBER 422291 \_\_\_\_

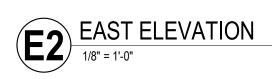




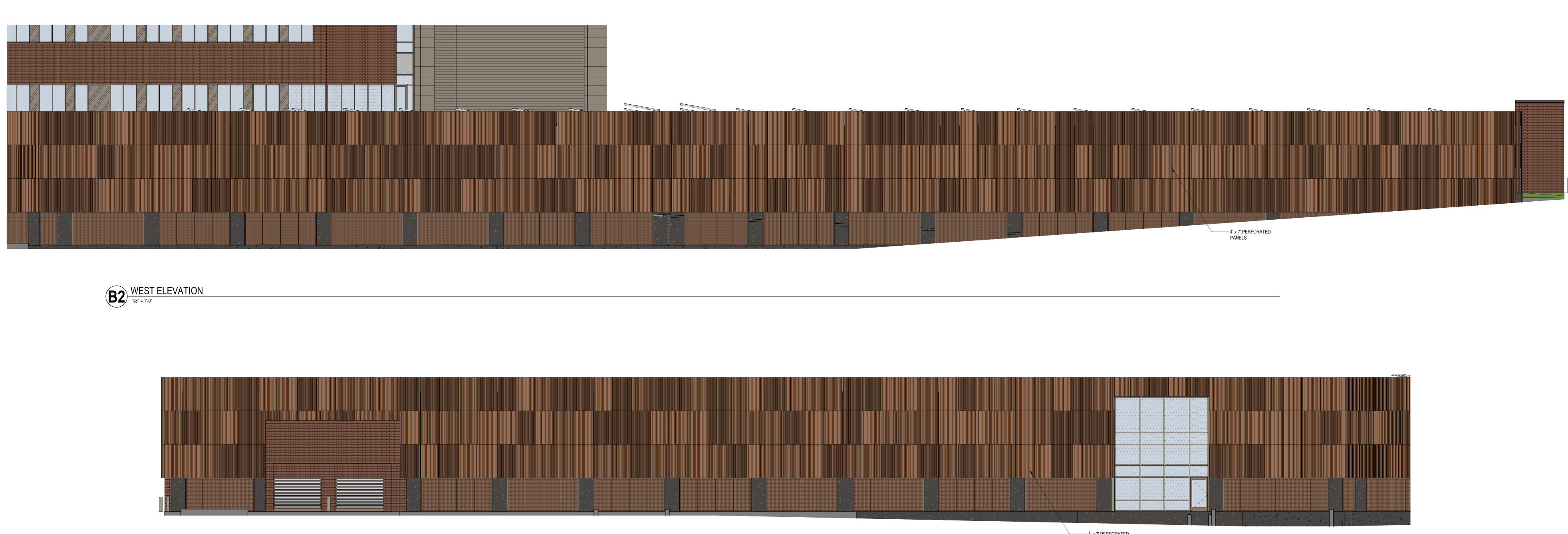
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A2 NORTHWEST ELEVATION

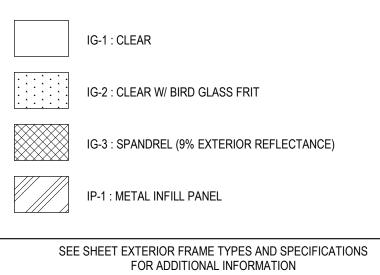
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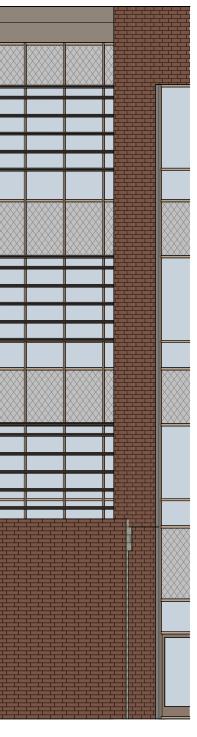
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## **EXTERIOR GLAZING LEGEND**





4' x 7' PERFORATED PANELS

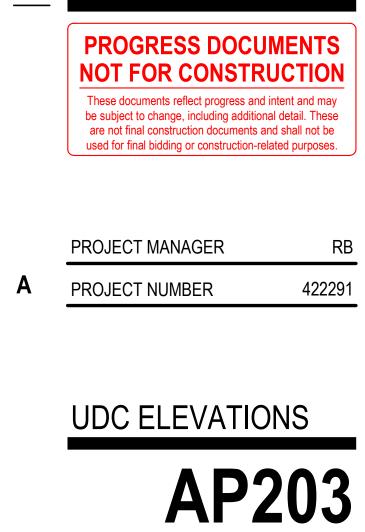
## EXTERIOR MATERIAL LEGEND

STONE VENEER BRICK \_\_\_\_\_ METAL COMPOSITE MATERIAL PANEL 

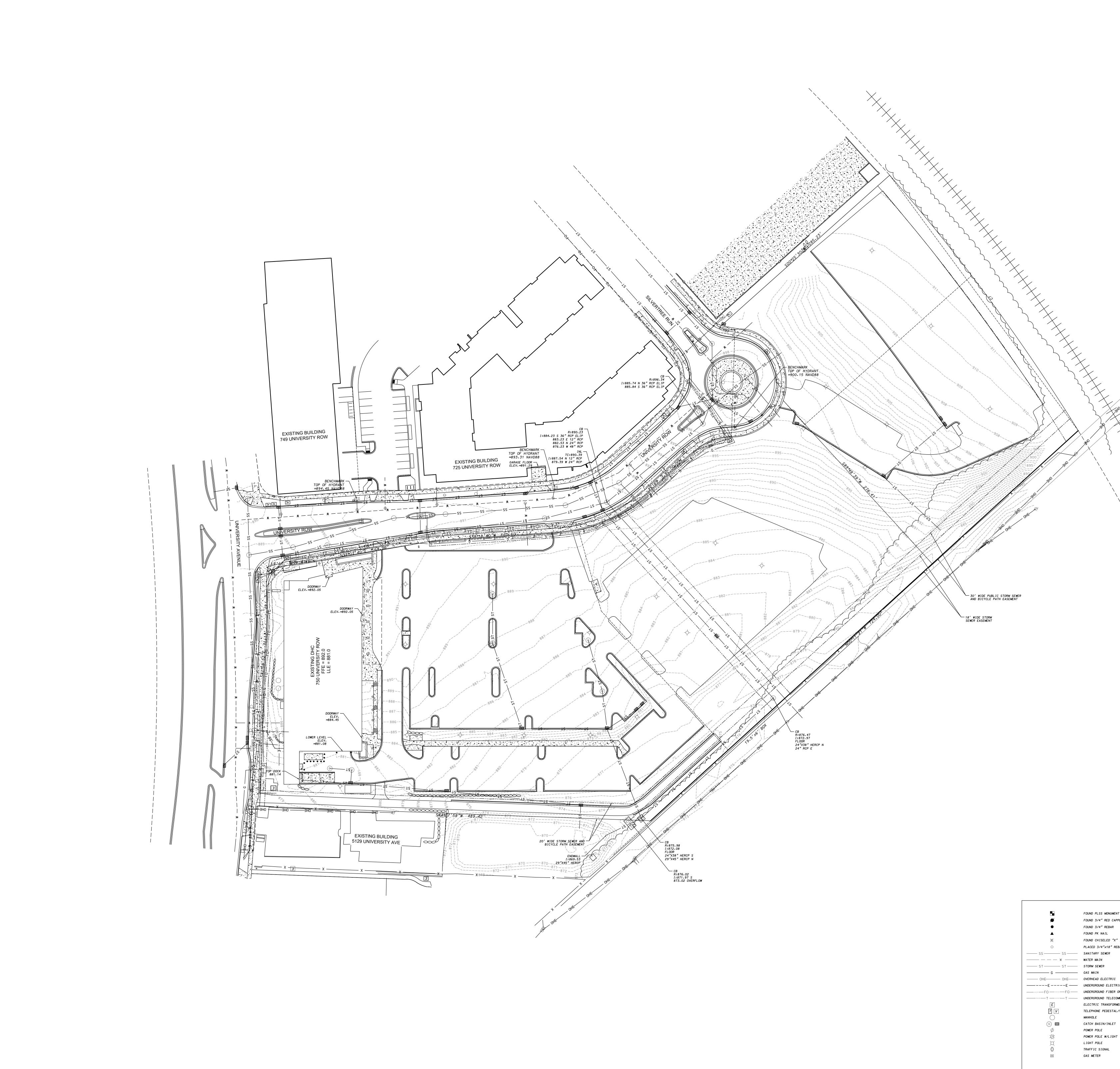
SEE SHEET A000 FOR EXTERIOR ASSEMBLY INFORMATION



SHEET INFORMATION



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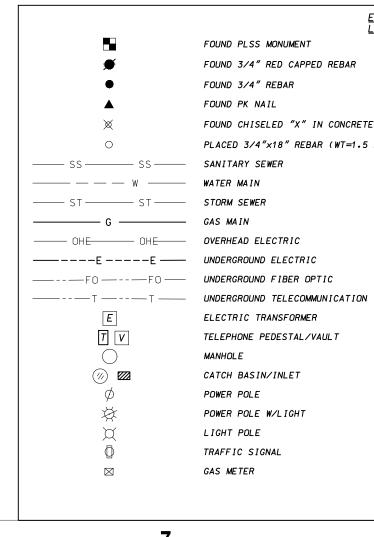
EXISTING SITE CC LEGEND NT PPED REBAR "" IN CONCRETE TEBAR (WT=1.5 LBS/FT) RIC OPTIC OMMUNICATION TMER L/VAULT	VALVE HYDRANT GUARD POST SIGN GUY WIRE DECIDUOUS TREE BUSH CONIFEROUS TREE TREE/SHRUB LINE FLAGPOLE GUARD RAIL CONCRETE		<section-header><section-header><section-header><section-header><text><text><text></text></text></text></section-header></section-header></section-header></section-header>
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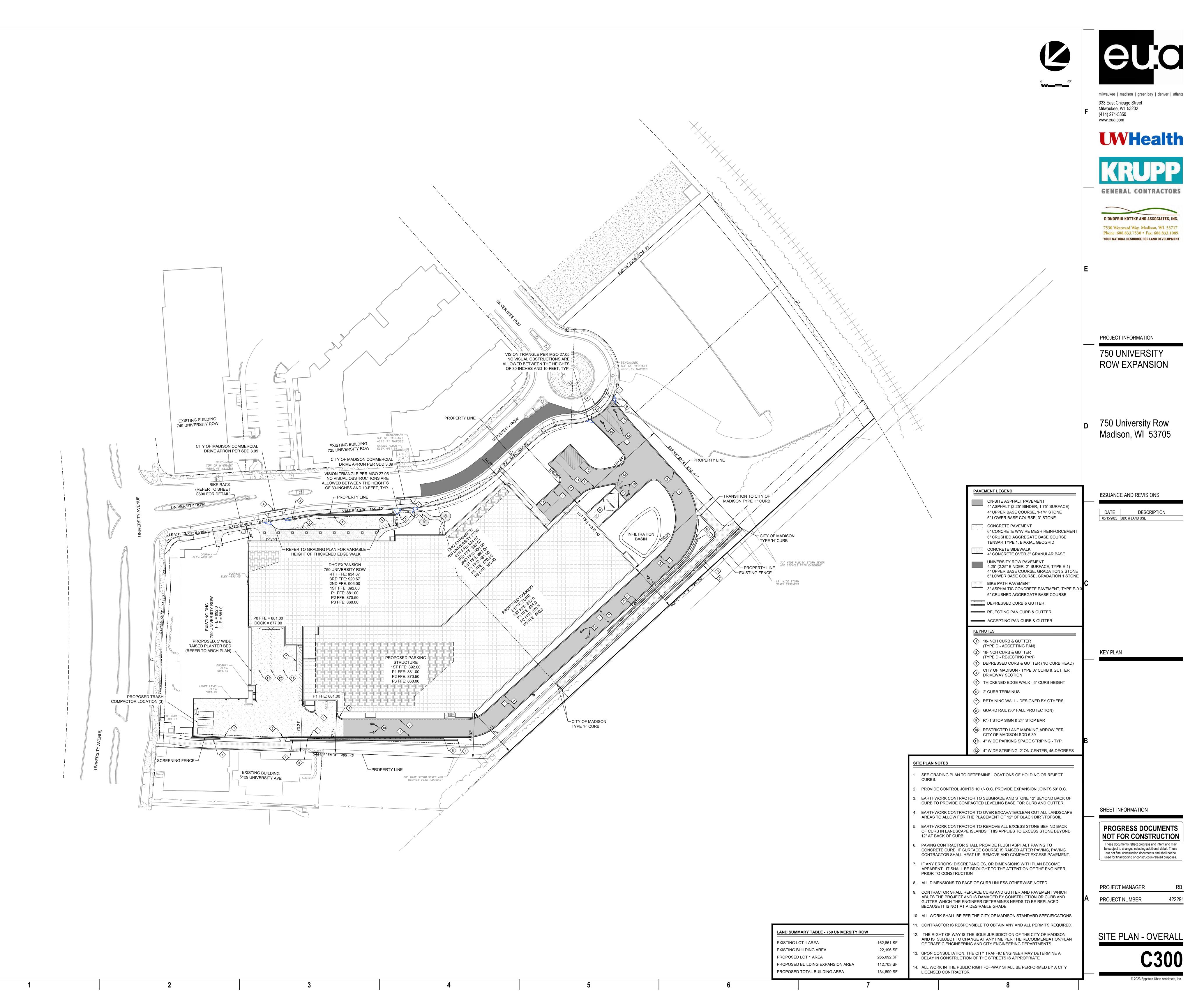
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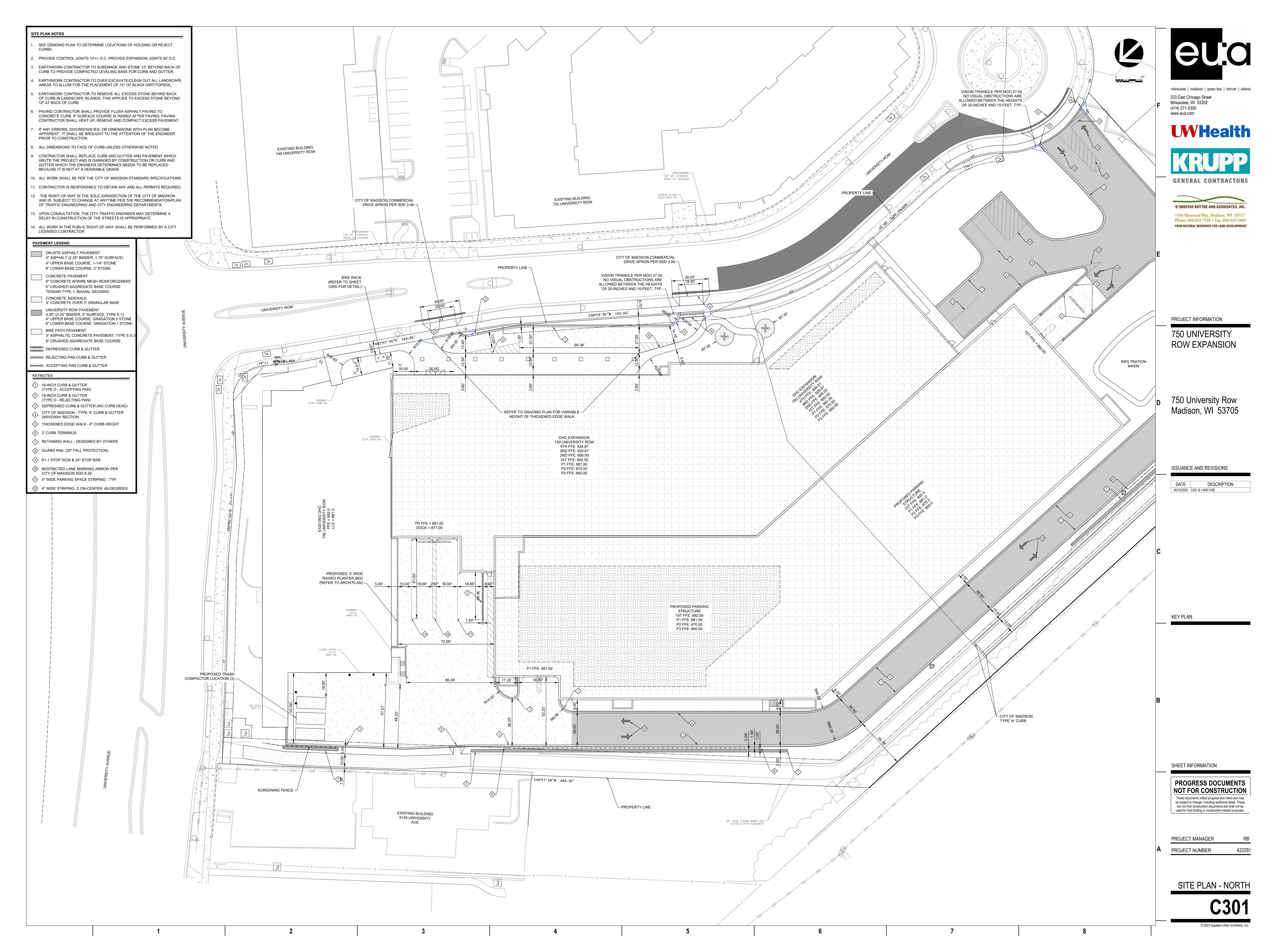
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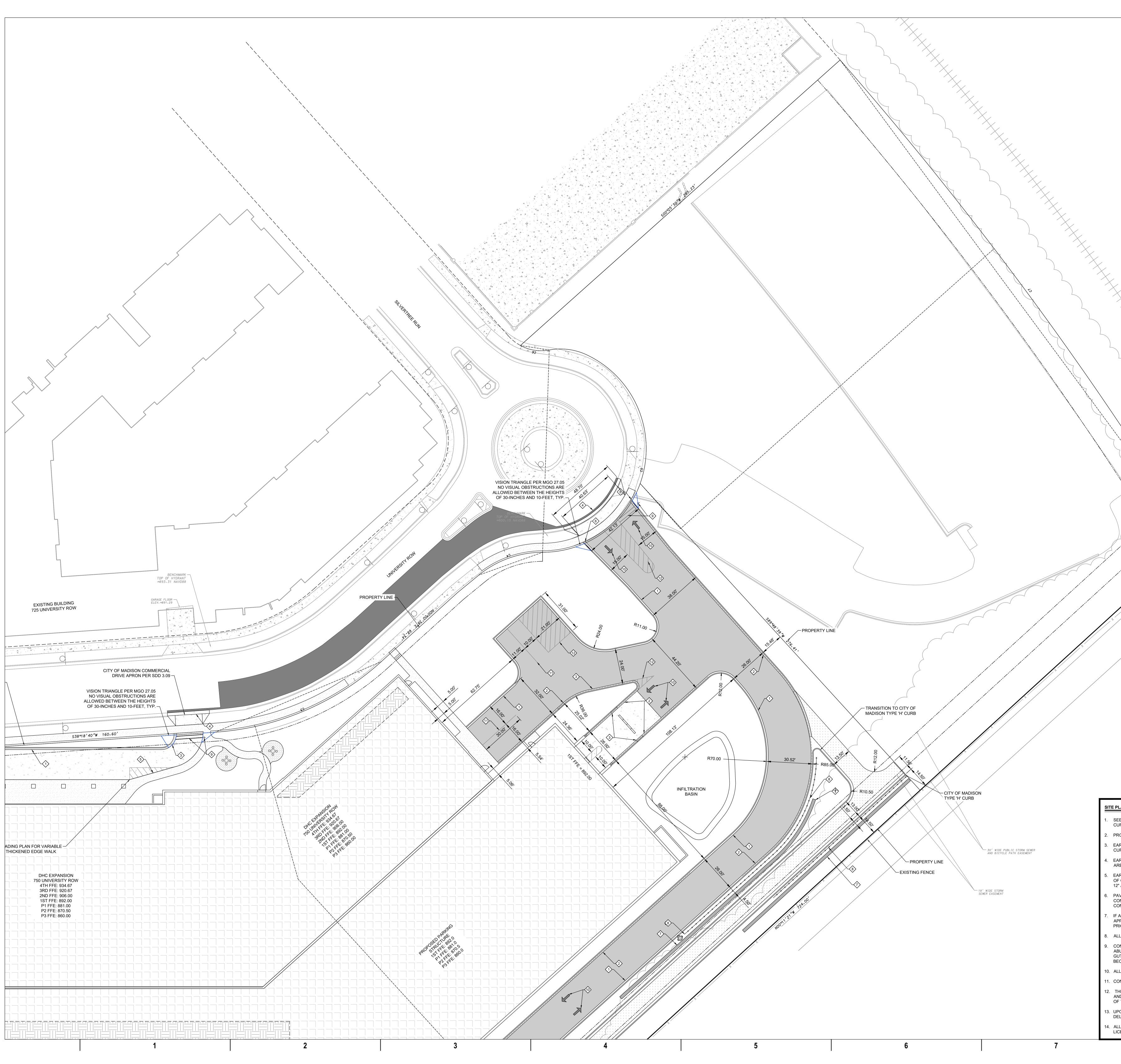
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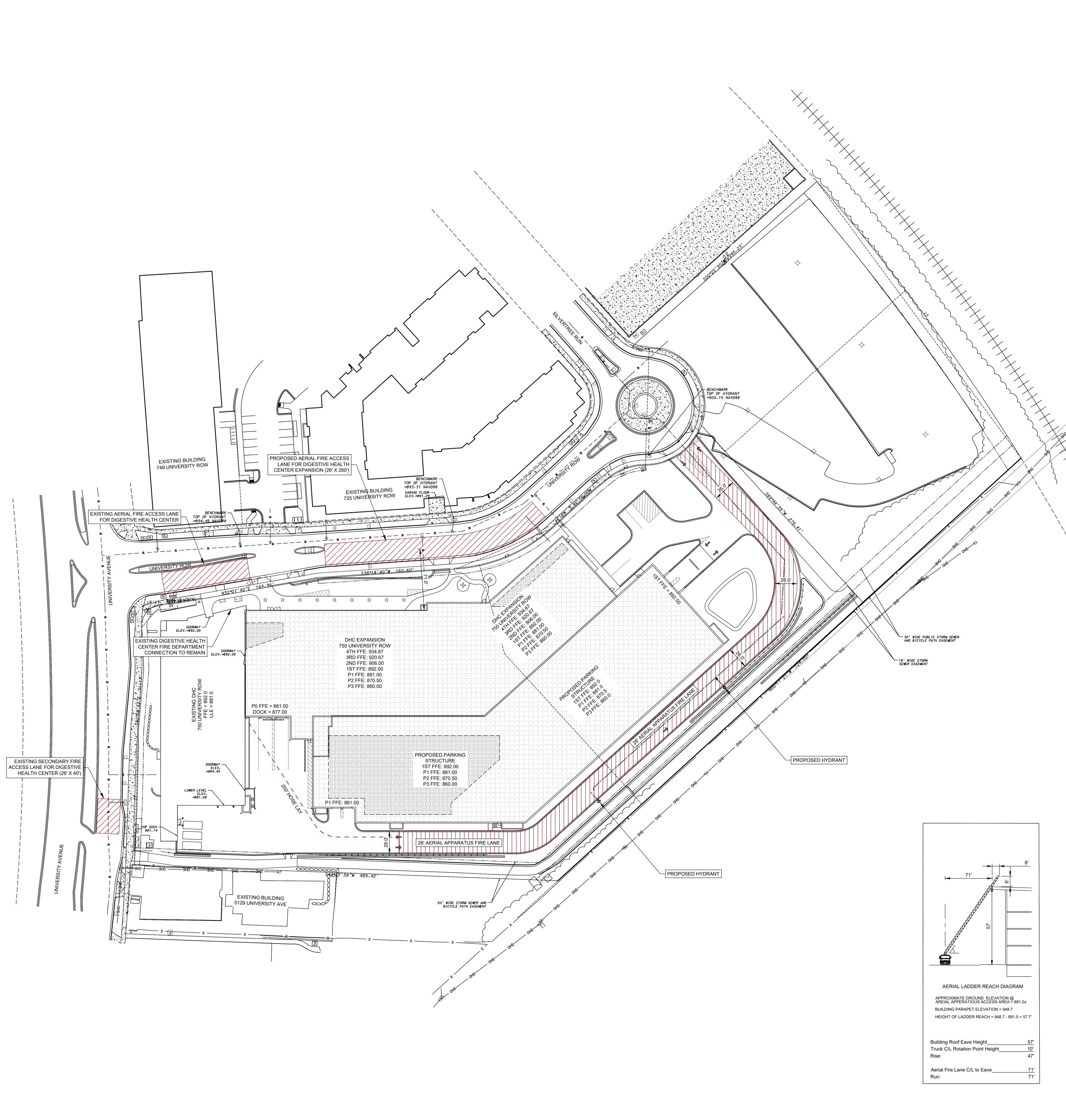
**EU**O 1. CITY FORESTRY HAS APPROVED THE REMOVAL OF THE FOLLOWING TREES IN THE UNIVERSITY ROW RIGHT-OF-WAY AND A REMOVALS PERMIT WILL BE ISSUED FOR THE FOLLOWING 7 TREES: milwaukee | madison | green bay | denver | atlanta 2. ALL PROPOSED STREET TREE REMOVALS WITHIN THE RIGHT-OF-WAY 333 East Chicago Street SHALL BE REVIEWED BY CITY FORESTRY BEFORE THE PLAN COMMISSION Milwaukee, WI 53202 MEETING. STREET TREE REMOVALS REQUIRE APPROVAL FROM CITY (414) 271-5350 FORESTRY AND A TREE REMOVAL PERMIT ISSUED BY CITY FORESTRY. www.eua.com 3. ANY STREET TREE REMOVALS REQUESTED AFTER THE DEVELOPMENT PLAN IS APPROVED BY CITY FORESTRY, PLAN COMMISSION, AND/OR **UWHealth** THE BOARD OF PUBLIC WORKS WILL REQUIRE A MINIMUM 72-HOUR REVIEW PERIOD WHICH SHALL INCLUDE THE NOTIFICATION OF THE ALDERPERSON WHOSE DISTRICT IS AFFECTED BY THE ADDITIONAL STREET TREE REMOVALS(S) PRIOR TO A TREE REMOVAL PERMIT BEING ISSUED FOR ADDITIONAL TREES BEYOND THOSE INDICATED IN THESE NOTES AND ON THE PLANS. **GENERAL CONTRACTORS** D'ONOFRIO KOTTKE AND ASSOCIATES, INC. Phone: 608.833.7530 • Fax: 608.833.1089 YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT PROJECT INFORMATION 750 UNIVERSITY ROW EXPANSION 750 University Row Madison, WI 53705 ISSUANCE AND REVISIONS DATE DESCRIPTION 05/15/2023 UDC & LAND USE 06/05/2023 KEY PLAN DEMOLITION LEGEND REMOVE EXISTING PAVEMENT OR GRAVEL REMOVE EXISTING STRUCTURES REMOVE EXISTING UTILITY STRUCTURE  $\bigotimes$ REMOVE EXISTING STREET TREE REMOVE EXISTING UTILITIES SHEET INFORMATION LIMITS OF DISTURBANCE **PROGRESS DOCUMENTS** EXISTING SITE CONDITIONS LEGEND NOT FOR CONSTRUCTION VAL VE These documents reflect progress and intent and may HYDRANT be subject to change, including additional detail. These GUARD POST • are not final construction documents and shall not be SIGN used for final bidding or construction-related purposes. GUY WIRE DECIDUOUS TREE BUSH FJ PROJECT MANAGER CONIFEROUS TREE 422291 PROJECT NUMBER -TREE/SHRUB LINE unn FLAGPOLE GUARD RAIL \_\_\_\_\_D\_\_\_\_\_ D D CONCRETE **DEMOLITION PLAN** • BOULDER RETAINING WALL \_\_\_\_\_ CONCRETE RETAINING WALL \_\_\_\_\_ Χ \_\_\_\_\_ FENCE CONCRETE CURB AND GUTTER \_\_\_\_\_ EXISTING CONTOUR 1010 BACK OF WALK SPOT ELEVATION (@ + ) +1021.32 ( ) "RECORDED AS" INFORMATION © 2023 Eppstein Uhen Architects, Inc.



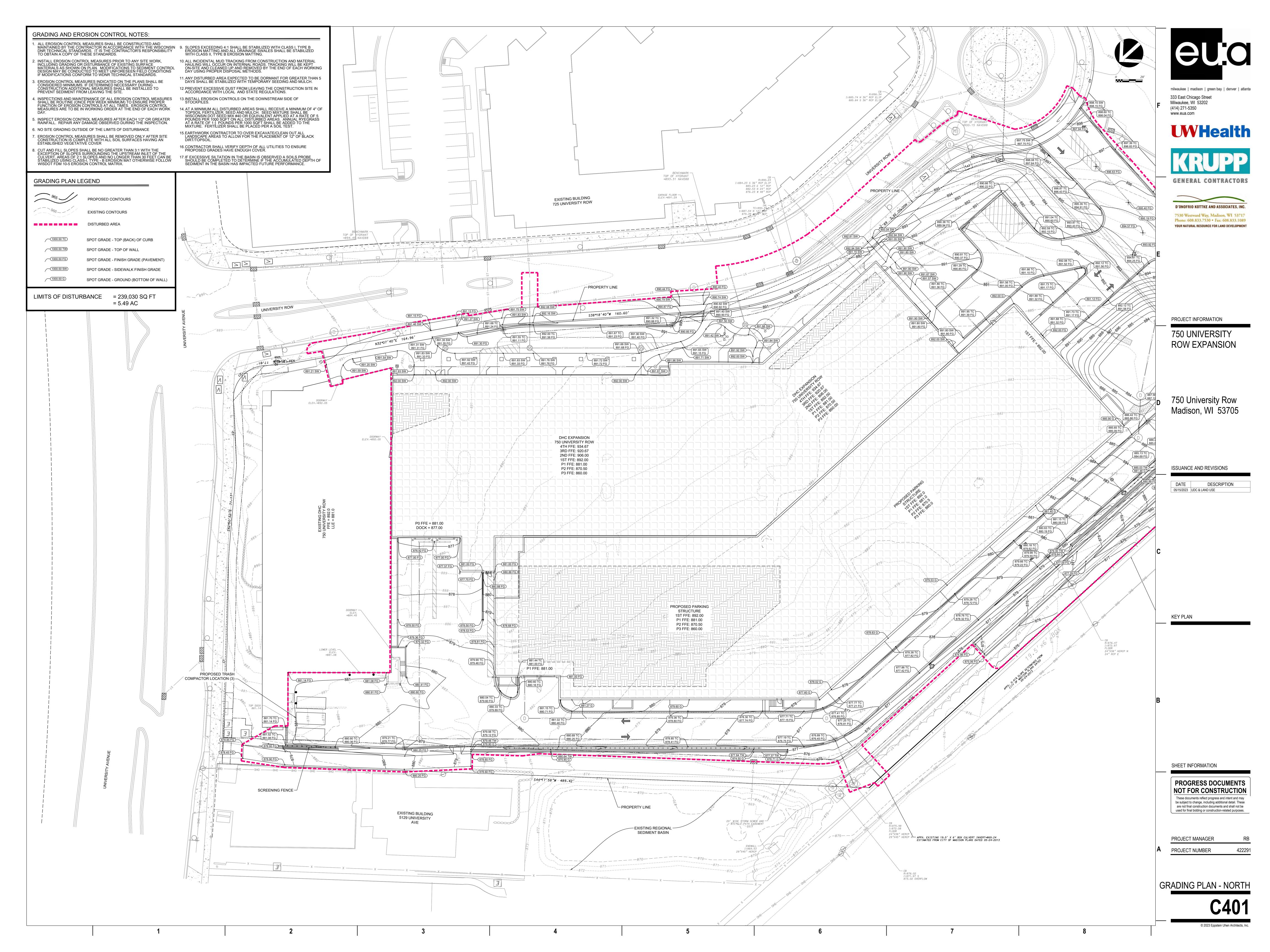


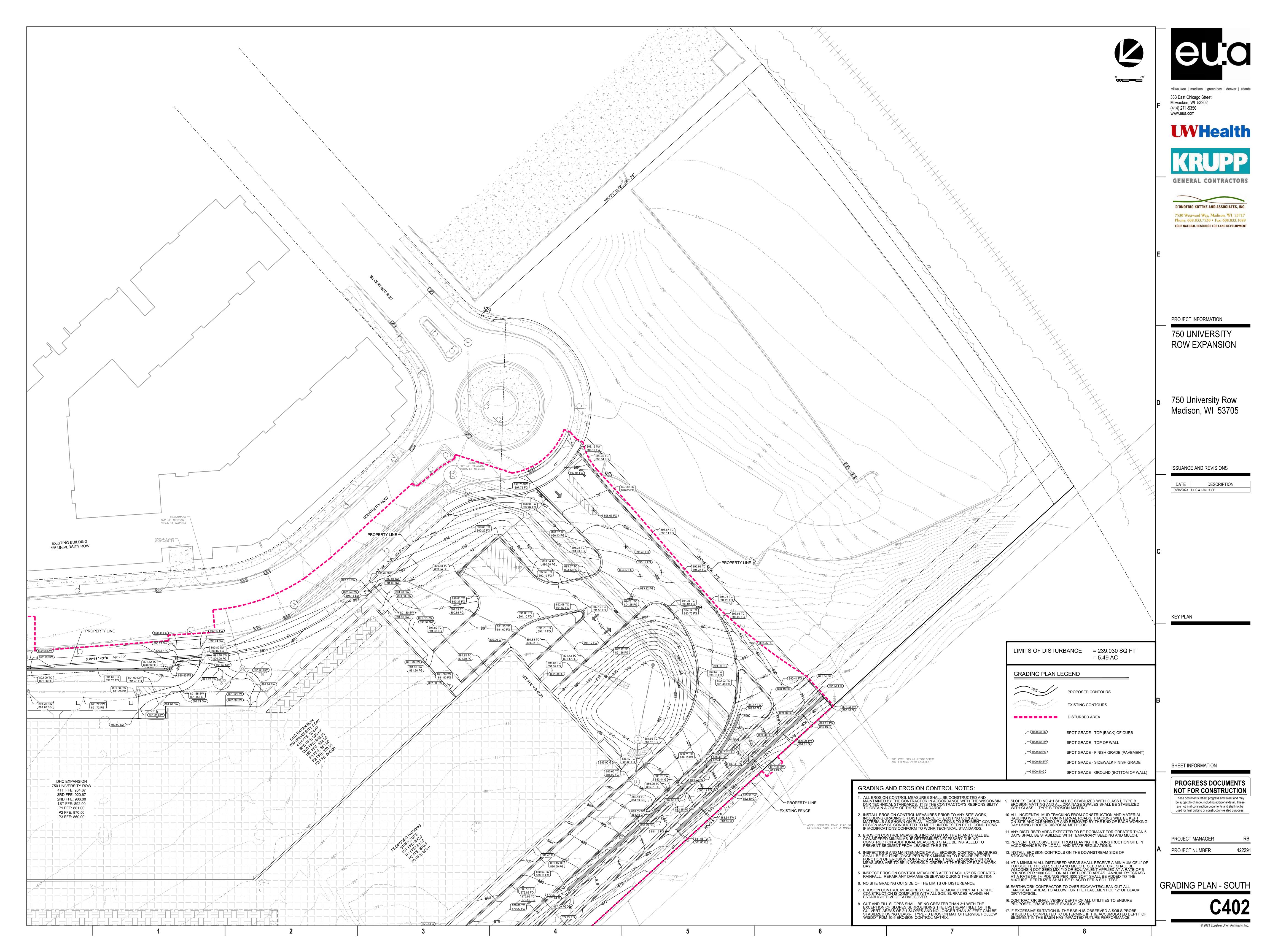


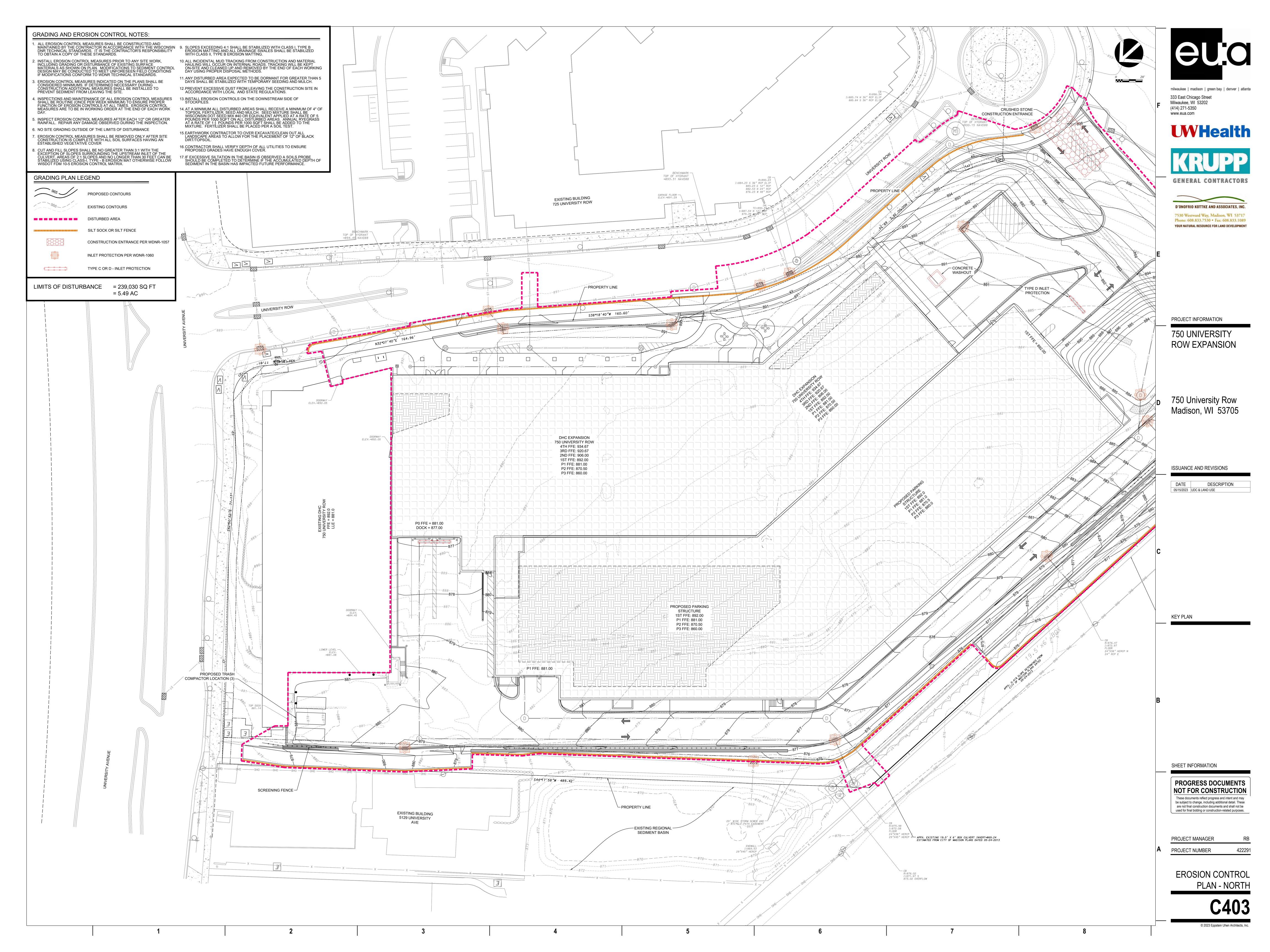
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	<b>UWHealth</b>
	<b>GENERAL CONTRACTORS</b>
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	E
	PROJECT INFORMATION
	750 UNIVERSITY ROW EXPANSION
	р 750 University Row Madison, WI 53705
PAVEMENT LEGEND	ISSUANCE AND REVISIONS
ON-SITE ASPHALT PAVEMENT 4" ASPHALT (2.25" BINDER, 1.75" SURFACE) 4" UPPER BASE COURSE, 1-1/4" STONE 6" LOWER BASE COURSE, 3" STONE CONCRETE PAVEMENT 6" CONCRETE W/WIRE MESH REINFORCEMENT 6" CRUSHED AGGREGATE BASE COURSE TENSAR TYPE 1, BIAXIAL GEOGRID	DATE DESCRIPTION 05/15/2023 UDC & LAND USE
CONCRETE SIDEWALK 4" CONCRETE OVER 3" GRANULAR BASE UNIVERSITY ROW PAVEMENT 4.25" (2.25" BINDER, 2" SURFACE, TYPE E-1) 4" UPPER BASE COURSE, GRADATION 2 STONE 6" LOWER BASE COURSE, GRADATION 1 STONE BIKE PATH PAVEMENT 3" ASPHALTIC CONCRETE PAVEMENT, TYPE E-0.3	С
6" CRUSHED AGGREGATE BASE COURSE DEPRESSED CURB & GUTTER REJECTING PAN CURB & GUTTER ACCEPTING PAN CURB & GUTTER KEYNOTES 18-INCH CURB & GUTTER	
<ul> <li>(TYPE D - ACCEPTING PAN)</li> <li>18-INCH CURB &amp; GUTTER (TYPE D - REJECTING PAN)</li> <li>DEPRESSED CURB &amp; GUTTER (NO CURB HEAD)</li> <li>CITY OF MADISON - TYPE 'A' CURB &amp; GUTTER DRIVEWAY SECTION</li> <li>THICKENED EDGE WALK - 6" CURB HEIGHT</li> </ul>	KEY PLAN
<ul> <li>2' CURB TERMINUS</li> <li>RETAINING WALL - DESIGNED BY OTHERS</li> <li>GUARD RAIL (30" FALL PROTECTION)</li> <li>R1-1 STOP SIGN &amp; 24" STOP BAR</li> <li>RESTRICTED LANE MARKING ARROW PER CITY OF MADISON SDD 6.39</li> </ul>	
<ul> <li>4" WIDE PARKING SPACE STRIPING - TYP.</li> <li>4" WIDE STRIPING, 2' ON-CENTER, 45-DEGREES</li> </ul>	В
<ol> <li>SITE PLAN NOTES</li> <li>SEE GRADING PLAN TO DETERMINE LOCATIONS OF HOLDING OR REJECT CURBS.</li> <li>PROVIDE CONTROL JOINTS 10'+/- O.C. PROVIDE EXPANSION JOINTS 50' O.C.</li> <li>EARTHWORK CONTRACTOR TO SUBGRADE AND STONE 12" BEYOND BACK OF CURB TO PROVIDE COMPACTED LEVELING BASE FOR CURB AND GUTTER.</li> </ol>	
<ol> <li>EARTHWORK CONTRACTOR TO OVER EXCAVATE/CLEAN OUT ALL LANDSCAPE AREAS TO ALLOW FOR THE PLACEMENT OF 12" OF BLACK DIRT/TOPSOIL.</li> <li>EARTHWORK CONTRACTOR TO REMOVE ALL EXCESS STONE BEHIND BACK OF CURB IN LANDSCAPE ISLANDS. THIS APPLIES TO EXCESS STONE BEYOND 12" AT BACK OF CURB.</li> <li>PAVING CONTRACTOR SHALL PROVIDE FLUSH ASPHALT PAVING TO CONCRETE CURB. IF SURFACE COURSE IS RAISED AFTER PAVING, PAVING</li> </ol>	SHEET INFORMATION  PROGRESS DOCUMENTS NOT FOR CONSTRUCTION  These documents reflect progress and intent and may be subject to change, including additional detail. These
<ul> <li>CONTRACTOR SHALL HEAT UP, REMOVE AND COMPACT EXCESS PAVEMENT.</li> <li>7. IF ANY ERRORS, DISCREPANCIES, OR DIMENSIONS WITH PLAN BECOME APPARENT. IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION</li> <li>8. ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED</li> </ul>	are not final construction documents and shall not be used for final bidding or construction-related purposes. PROJECT MANAGER RB
<ol> <li>9. CONTRACTOR SHALL REPLACE CURB AND GUTTER AND PAVEMENT WHICH ABUTS THE PROJECT AND IS DAMAGED BY CONSTRUCTION OR CURB AND GUTTER WHICH THE ENGINEER DETERMINES NEEDS TO BE REPLACED BECAUSE IT IS NOT AT A DESIRABLE GRADE</li> <li>10. ALL WORK SHALL BE PER THE CITY OF MADISON STANDARD SPECIFICATIONS</li> <li>11. CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED.</li> <li>12. THE PICHT OF WAX IS THE SOLE. IMPISDICTION OF THE CITY OF MADISON</li> </ol>	A PROJECT NUMBER 422291
<ol> <li>THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANYTIME PER THE RECOMMENDATION/PLAN OF TRAFFIC ENGINEERING AND CITY ENGINEERING DEPARTMENTS.</li> <li>UPON CONSULTATION, THE CITY TRAFFIC ENGINEER MAY DETERMINE A DELAY IN CONSTRUCTION OF THE STREETS IS APPROPRIATE</li> <li>ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A CITY LICENSED CONTRACTOR</li> </ol>	SITE PLAN - SOUTH
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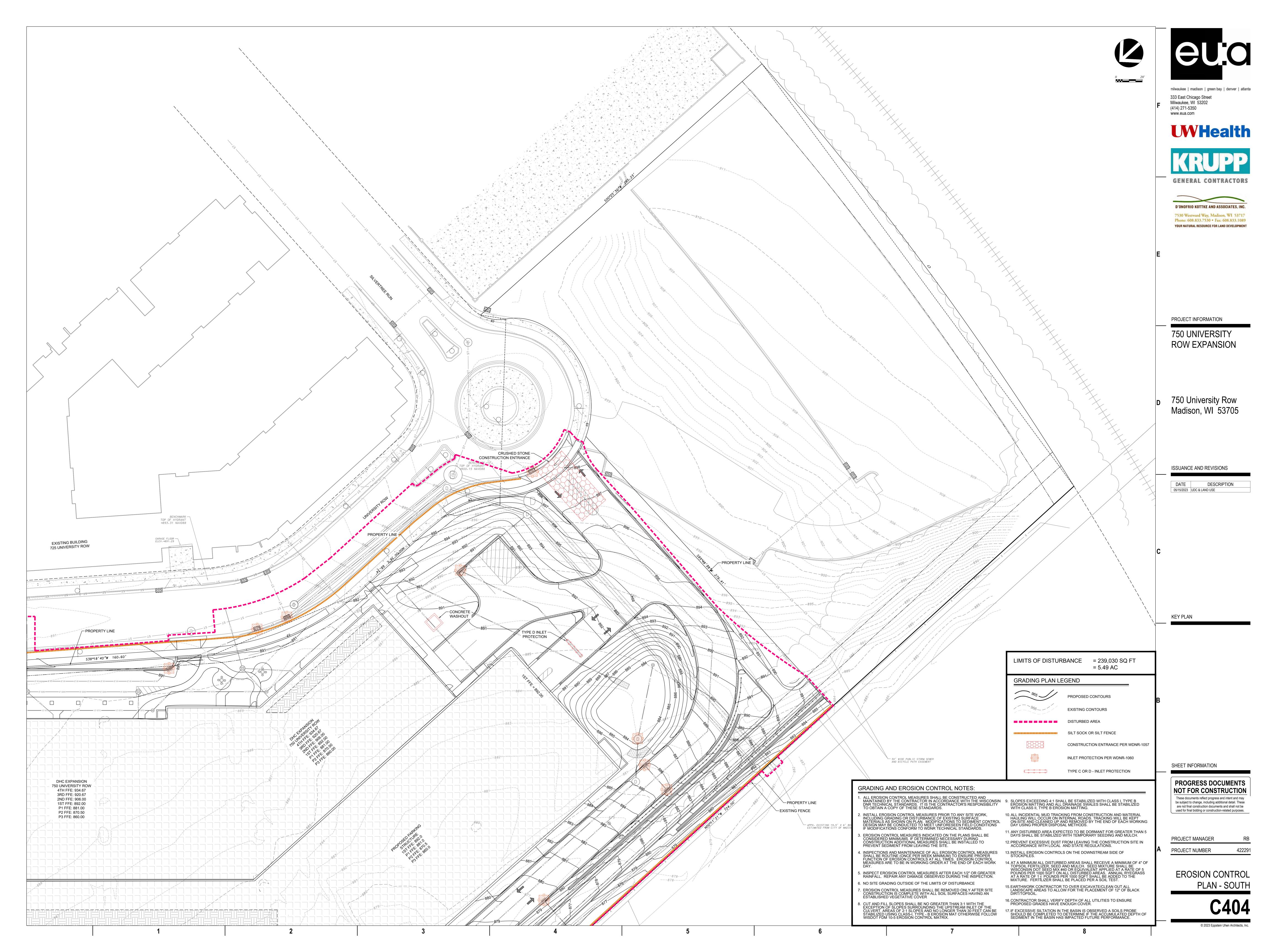


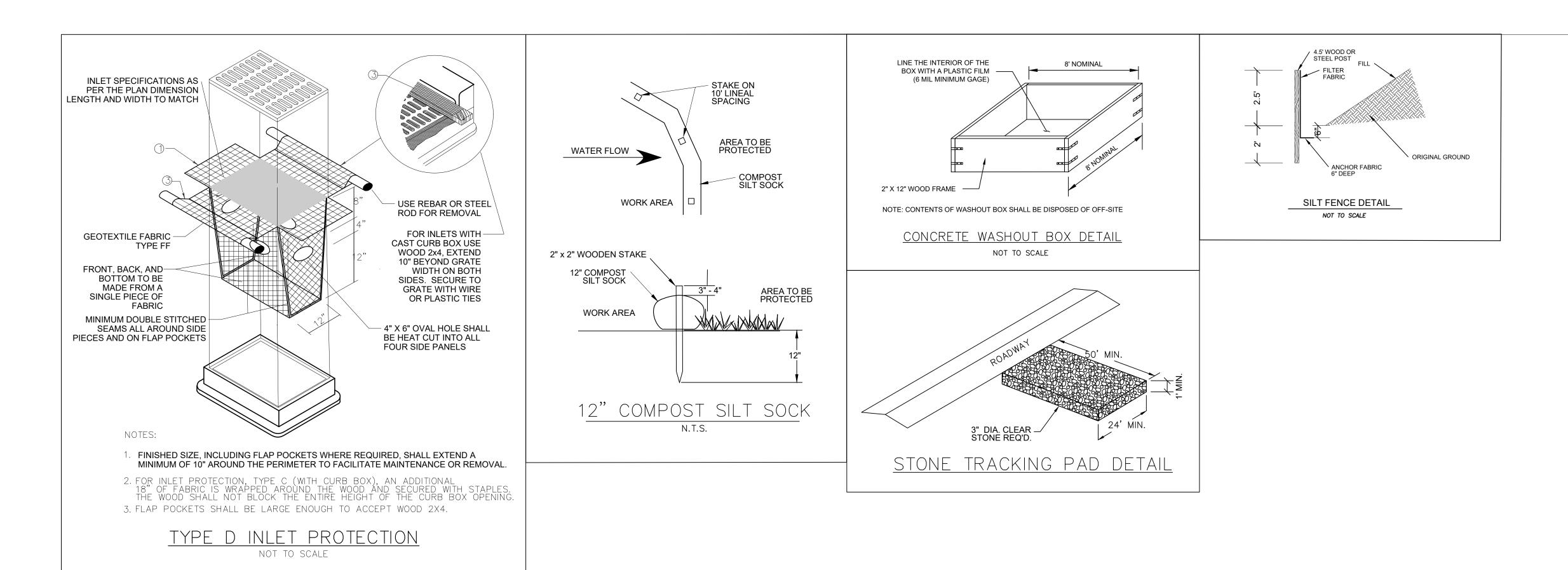
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		<b>UWHealth</b>
		<b>KRUPP</b> GENERAL CONTRACTORS
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	E	
		PROJECT INFORMATION
		750 UNIVERSITY ROW EXPANSION
	D	750 University Row
		Madison, WI 53705
		ISSUANCE AND REVISIONS
		DATEDESCRIPTION05/15/2023UDC & LAND USE
	С	
		KEY PLAN
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FIRE LANE		
43.25		SHEET INFORMATION PROGRESS DOCUMENTS
		NOT FOR CONSTRUCTION These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.
FIRE RESCUE VEHICLE Overall Length 43.250ft Overall Width 8.333ft Overall Body Height 11.000ft Min Body Ground Clearance 1.393ft Track Width 8.333ft Lock-to-lock time 6.00s Max Wheel Angle 45.00°	A	PROJECT MANAGER RB PROJECT NUMBER 422291
		FIRE ACCESS PLAN
8		C303 © 2023 Eppstein Uhen Architects, Inc.



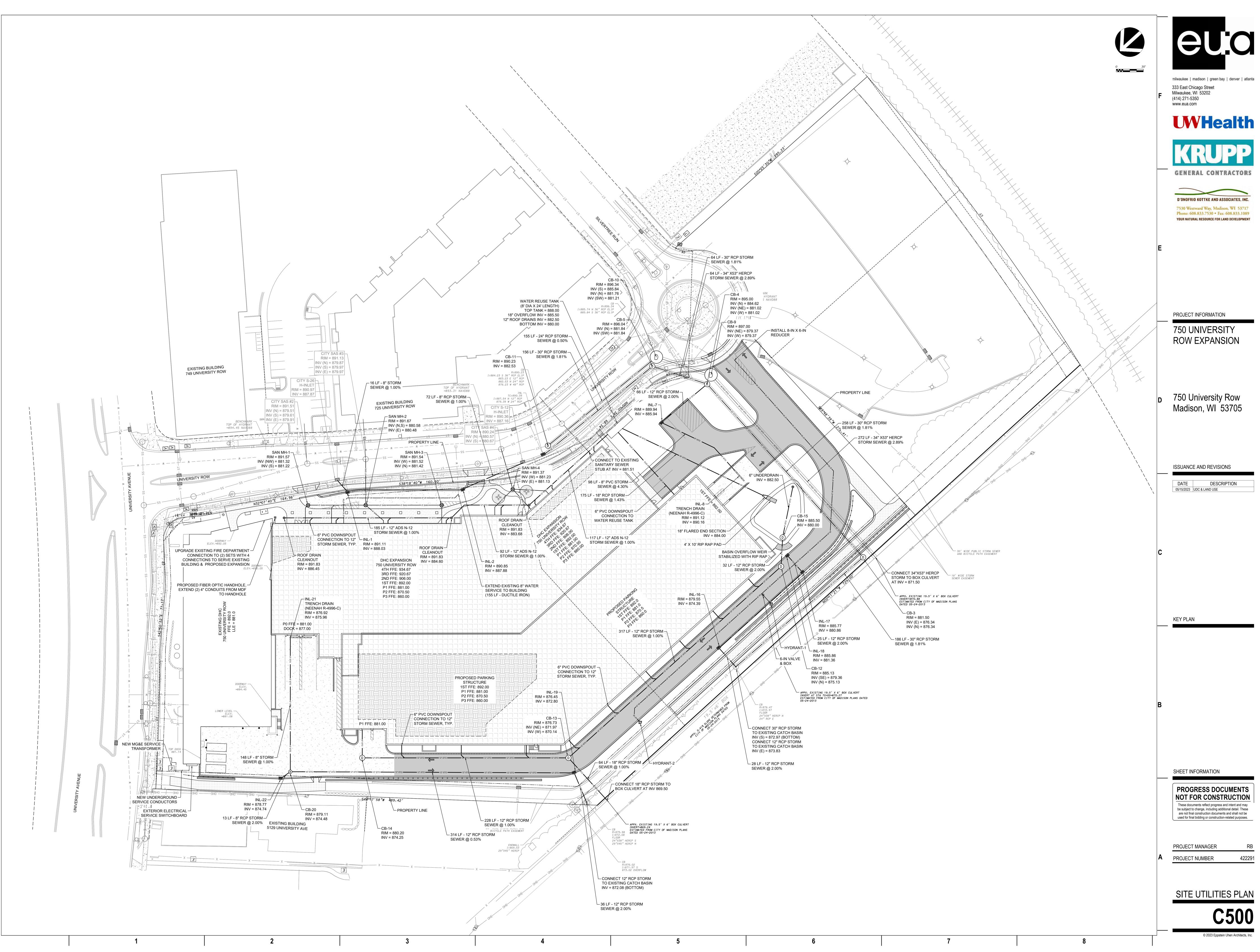


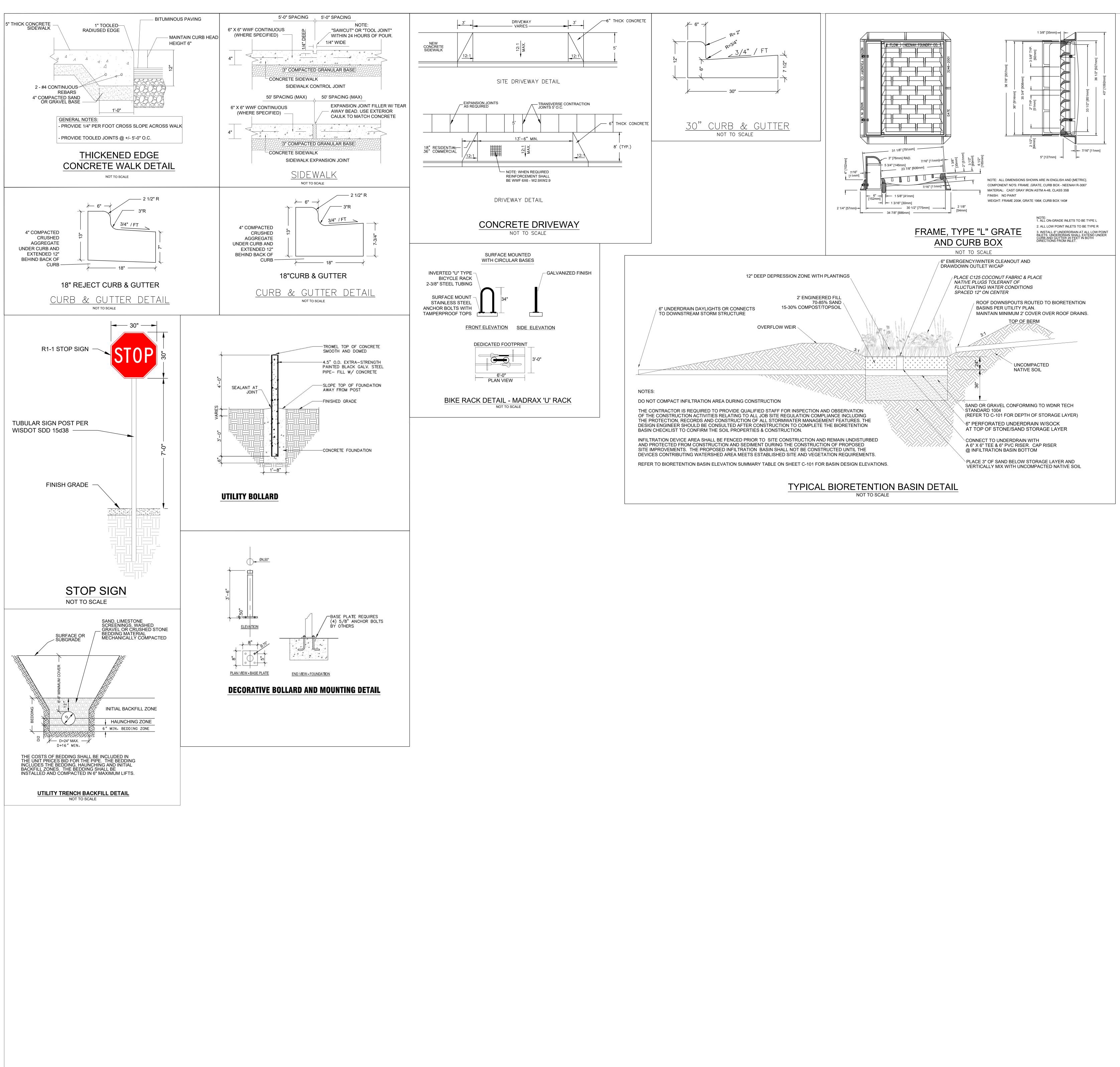




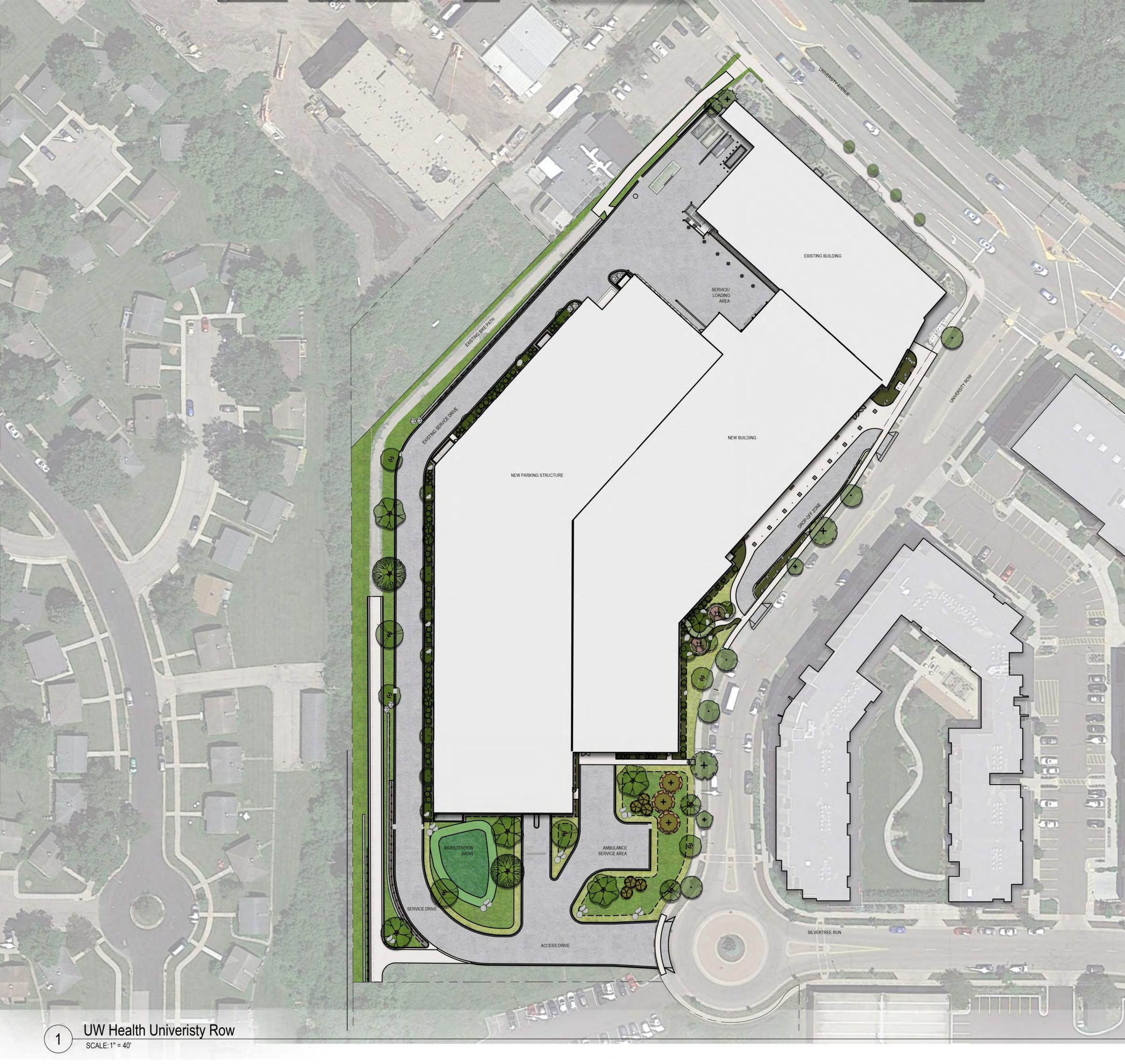


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	PROJECT INFORMATION 750 UNIVERSITY
	ROW EXPANSION
)	750 University Row Madison, WI 53705
	ISSUANCE AND REVISIONS
	DATE DESCRIPTION 05/15/2023 UDC & LAND USE
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	KEY PLAN
	SHEET INFORMATION
	PROGRESS DOCUMENTS NOT FOR CONSTRUCTION         These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.
L.	PROJECT MANAGER RB PROJECT NUMBER 422291
	EROSION CONTROL DETAILS
	C405
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	UVHealth
	<b>KRUPP</b> GENERAL CONTRACTORS
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	750 UNIVERSITY ROW EXPANSION
)	750 University Row Madison, WI 53705
	ISSUANCE AND REVISIONS           DATE         DESCRIPTION           05/15/2023         UDC & LAND USE
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	KEY PLAN
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	NOT FOR CONSTRUCTION These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.
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	CONSTRUCTION DETAILS
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## LEGEND

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PROPERTY BOUNDARY

NO-MOW FESCUE TURF SEED

BLUEGRASS LAWN SOD

PLANTING BED WITH SHREDDED HARDWOOD BARK MULCH

STONE MULCH MAINTENANCE EDGE, SEE DETAIL 10/L500

**BIORETENTION MIX 'A'- SIDE SLOPES** 

BIORETENTION MIX 'B'- BOTTOM OF BASIN

STONE COBBLES, SEE DETAIL 11/L500

LIMESTONE OUTCROPPINGS

LIMESTONE ACCENT BOULDERS

3" DEPTH SHREDDED HARDWOOD BARK MULCH NEW BED

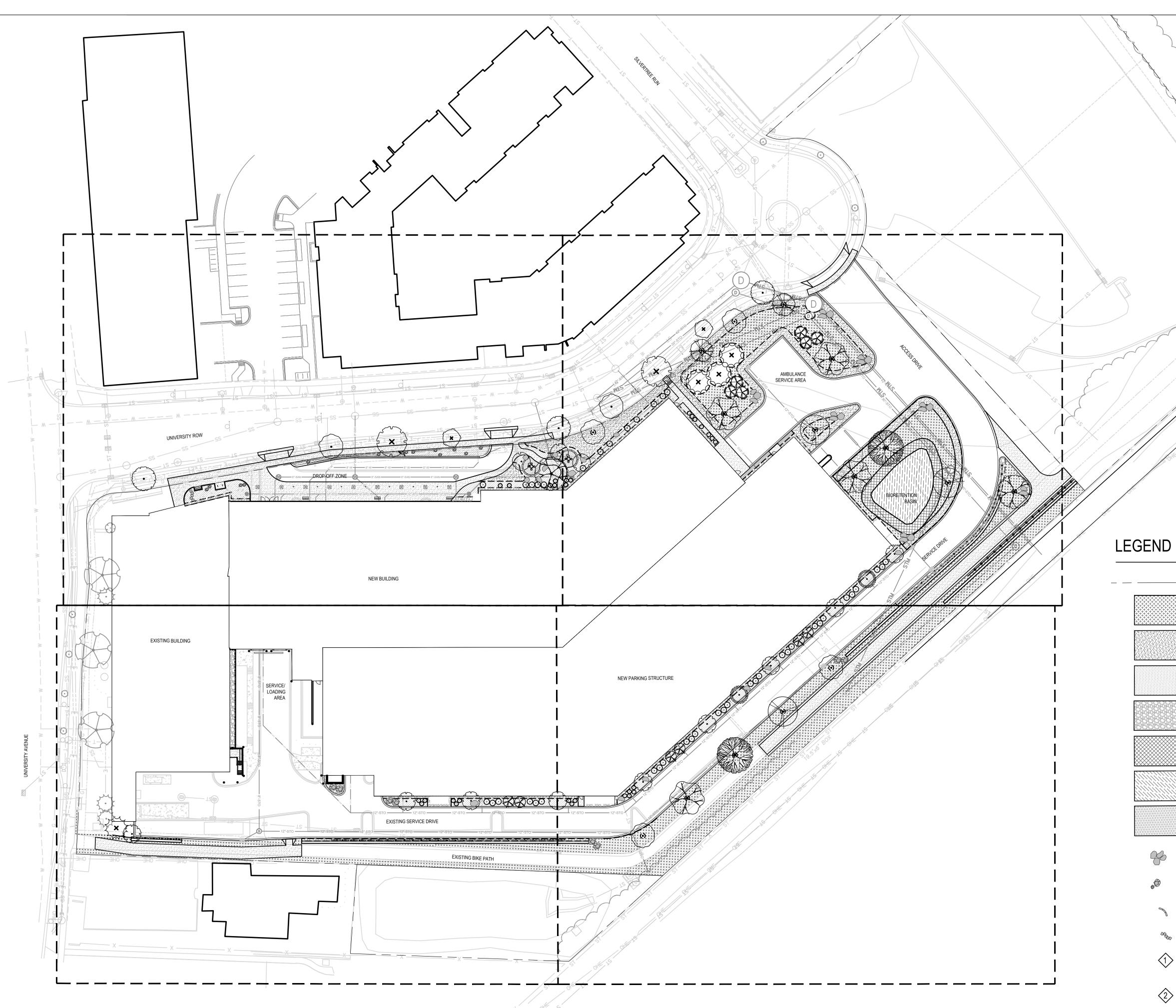
4' DIAMETER 3" DEPTH SHREDDED HARDWOOD BARK MULCH RING AT BASE OF TREE

3 SHOVEL-CUT EDGE, SEE DETAIL 8/L500



1" = 40'





## NOTES

- 1. FIELD VERIFY SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION AND REPORT ANY DISCREPANCIES 12. CONTRACTORS SHALL TAKE PRECAUTIONS DURING CONSTRUCTION TO NOT DISFIGURE, SCAR, OR IMPAIR TO THE PROJECT REPRESENTATIVE.
- 2. CONTACT DIGGER'S HOTLINE TO LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO STARTING WORK. 3. FIELD VERIFY ALL EXISTING SITE CONDITIONS AND UTILITIES PRIOR TO STARTING WORK. ANY DAMAGE
- CAUSED TO UTILITIES, EITHER SHOWN OR NOT, SHALL BE REPAIRED AND PAID FOR AT THE CONTRACTOR'S EXPENSE.
- 4. PROTECT ALL BENCHMARKS.
- 5. PROTECT ALL EXISTING PAVEMENTS, CURBS, UTILITIES, AND OTHER IMPROVEMENTS (TO REMAIN) FROM CONSTRUCTION ACTIVITIES. RESTORE ALL AREAS DISTURBED BY CONSTRUCTION RELATED ACTIVITIES TO EXISTING CONDITIONS AT COMPLETION OF WORK UNLESS SHOWN OTHERWISE ON PLANS.
- 6. PROVIDE INFILTRATION TESTING PRIOR TO PLACEMENT OF ENGINEERED SOIL FOR EACH BIOINFILTRATION AREA.
- 7. VERIFY THAT SPECIFIED TOPSOIL, PLANTING MIXTURE, AND ENGINEERED SOIL DEPTHS ARE PRESENT PRIOR TO PLANTING PER SECTION 32 91 13 'SOIL PREPARATION. NOTIFY PROJECT REPRESENTATIVE OF ANY NON-CONFORMING CONDITIONS.
- 8. ALL WRAPPINGS, WIRE BASKETS, BURLAP, AND OTHER MISCELLANEOUS MATERIAL SHALL BE COMPLETELY REMOVED FROM ALL SHRUB AND TREE ROOT BALLS PRIOR TO INSTALLATION.
- 9. ALL EXISTING PLANT MATERIAL IS SHOWN AT EXISTING APPROXIMATE SIZE PER CITY OF MADISON STANDARDS.
- 10. ALL EXISTING LAWN AREAS WITHIN AND ADJACENT TO THE PROJECT SITE THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO, UTILITY TRENCHING, ACCESS, OR MATERIALS 16. ANY STREET TREE REMOVALS REQUESTED AFTER THE DEVELOPMENT PLAN IS APPROVED BY THE PLAN STORAGE SHALL BE REPAIRED WITH SEED PER SECTION 32 92 00, 'TURF AND GRASSES.'
- 11. THIS PROJECT PROPOSES THE REMOVAL OF SEVEN (7) EXISTING TREES IN THE UNIVERSITY ROW TERRACE. THE CONTRACTOR SHALL CONTACT CITY FORESTRY AT (608)266-4816 TO ISSUE A STREET TREE REMOVAL PERMIT FOR THE FOLLOW TREE REMOVALS DUE TO CRANE/STAGING CONFLICT AND MAJOR STORM UTILITY RELOCATION ALONG THE UNIVERSITY ROW RIGHT-OF-WAY:
- (1) 5" LINDEN - (2) 4" KENTUCKY COFFEETREES
- (1) 3" GINKGO
- (1) 4" GINKGO - (1) 3" KENTUCKY COFFEETREE
- (1) 4" HACKBERRY CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF THE TREE AND FOR ALL COORDINATION AND PERMITTING WITH CITY FORESTRY STAFF.

REQUIRED.

- HTTPS://WWW.CITYOFMADISON.COM/BUSINESS/PW/SPECS.CFM.
- THE PROTECTION ZONE IS PROHIBITED.
- WITH THE LANDSCAPER.

### LANDSCAPE PLAN OVERVIEW SCALE: 1" = 40' - 0" ON 36" x 48" SHEET

### 750 University Row Expansion Madison, WI

05-12-2023

				Landscape Poin
Developed Lots	SF	Acres		Subtotal
Total Developed Area (Lot - Building Area)	305,262	7.01		
Landscape Points (5 pts/300 SF for first 5 acres, 1 pt/100 SI	F for additional)			50
		Landsca	pe Points Required	50
			Overstory Trees	
Development Frontage - University Avenue	LF		Required *	Shrubs Required
Total LF of Street Frontage				
Between Parking/Building & Street	310		10	52
		Quantity	Quantity	
Element	Point Value	Proposed	Existing	Points Achieve
Overstory Deciduous Tree	35	0	3	105
Tall Evergreen Tree	35	0	2	70
Ornamental Tree	15	0	5	75
Upright Evergreen Shrub	10	0	0	0
Shrub, deciduous	3	0	55	165
Shrub, evergreen Ornamental Grass/Perennial	4	0	42	168 0
Ornamental Grass/Perennial		-	•	583
		Development Fi	ontage Points Total	505
			Overstory Trees	
Development Frontage - University Row	LF		Required *	Shrubs Require
Total LF of Street Frontage	00.4		27	407
Between Parking/Building & Street	824		27	137
		Quantity	Quantity	
Element	Point Value	Proposed	Existing	Points Achieve
Overstory Deciduous Tree	35	14	0	490
Tall Evergreen Tree	35	24	0	840
Ornamental Tree	15	3	0	45
Upright Evergreen Shrub	10	0	0	0
Shrub, deciduous	3	43	12	165
Shrub, evergreen	4	26	2	112
Ornamental Grass	2	126	10	272
		Development Fr	ontage Points Total	1924
General Site, Foundation, Screening				
			_	
		Quantity	Quantity	
Element	Point Value	Proposed	Existing	Points Achieve
Existing Overstory Deciduous Tree (caliper " at DBH)	14	0	0	0
Overstory Deciduous Tree	35	21	0	735
Tall Evergreen Tree	35	67	0	2345
Ornamental Tree	15	0	0	0
Upright Evergreen Shrub	10	0	0	0
Shrub, deciduous	3	41	0	123
Shrub, evergreen Ornamental Grass/Perennial	4	0 0	0	0
	<u> </u>	U	U	0
Ornamental/Decorative Fence		~	•	
or Wall (4 pts/10 LF)		0 Founda	0 tion Plantings Total	0 3203
		i Junda		

THE HEALTH OF ANY STREET TREE(S0. CONTRACTOR SHALL OPERATE EQUIPMENT IN A MANNER AS TO NOT DAMAGE THE BRANCHES OF THE STREET TREES. THIS MAY REQUIRE USING SMALLER EQUIMPENT AND LOADING AN DUNLOADING MATIERIALS IN A DESIGNATED SPACE AWAY FROM TREES ON THE CONSTRUCTION SITE. ANY DAMAGE OR INJURY TO EXISTING STREET TREES (EITHER ABOVE OR BELOW GROUND) SHALL BE REPORTED IMMEDIATELY TO CITY FORESTRY AT (608) 266-4816. PENALTIES AND REMEDIATION SHALL BE

13. AS DEFINED BY THE SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION: NO EXCAVATIONS PERMITTED WITHIN 5 FEET OF THE TRUNK OF THE STREET TREE OR WHEN CUTTING ROOTS OVER 3 INCHES IN DIAMETER. IF EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT MADISON CITY FORESTRY AT (608) 266-4816 PRIOR TO EXCAVATION. CITY OF MADISON FORESTRY PERSONNEL SHALL ASSESS THE IMPACT TO THE TREE AND TO ITS ROOT SYSTEM PRIOR TO WORK COMMENCING. TREE PROTECTION SPECIFICATIONS CAN BE FOUND ON THE FOLLOWING WEBSITE:

14. SECTION 107.13(G) OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WEBSITE: HTTPS://WWW.CITYOFMADISON.COM/BUSINESS/PW/SPECS.CFM) ADDRESSES SOIL COMPACTION NEAR STREET TREES AND SHALL BE FOLLOWED BY CONTRACTOR. THE STORAGE OF PARKED VEHICLES. CONSTRUCTION EQUIPMENT, BUILDING MATERIALS, REFUSE, EXCAVATED SPOILS OR DUMPING OF POISONOUS MATERIALS ON OR AROUND TREES AND ROOTS WITHIN FIVE (5) FEET OF THE TREE OR WITHIN

15. AT LEAST ONE WEEK PRIOR TO STREET TREE PLANTING, THE CONTRACTOR SHALL CONTACT DIGGERS HOTLINE TO HAVE ALL UTILITIES MARKED AND SUBSEQUENTLY CONTACT CITY FORESTRY AT (608) 266-4816 TO SCHEDULE INSPECTION AND APPROVAL OF NURSERY TREE STOCK AND REVIEW PLANTING SPECIFICATIONS

COMMISSION OR THE BOARD OF PUBLIC WORKS AND CITY FORESTRY WILL REQUIRE A MINIMUM OF A72-HOUR REVIEW PERIOD WHICH SHALL INCLUDE THE NOTIFICATION OF THE ALDERPERSON WITHIN WHOSE DISTRICT IS AFFECTED BY THE STREET TREE REMOVAL(S) PRIOR TO A TREE REMOVAL PERMIT BEING ISSUED.

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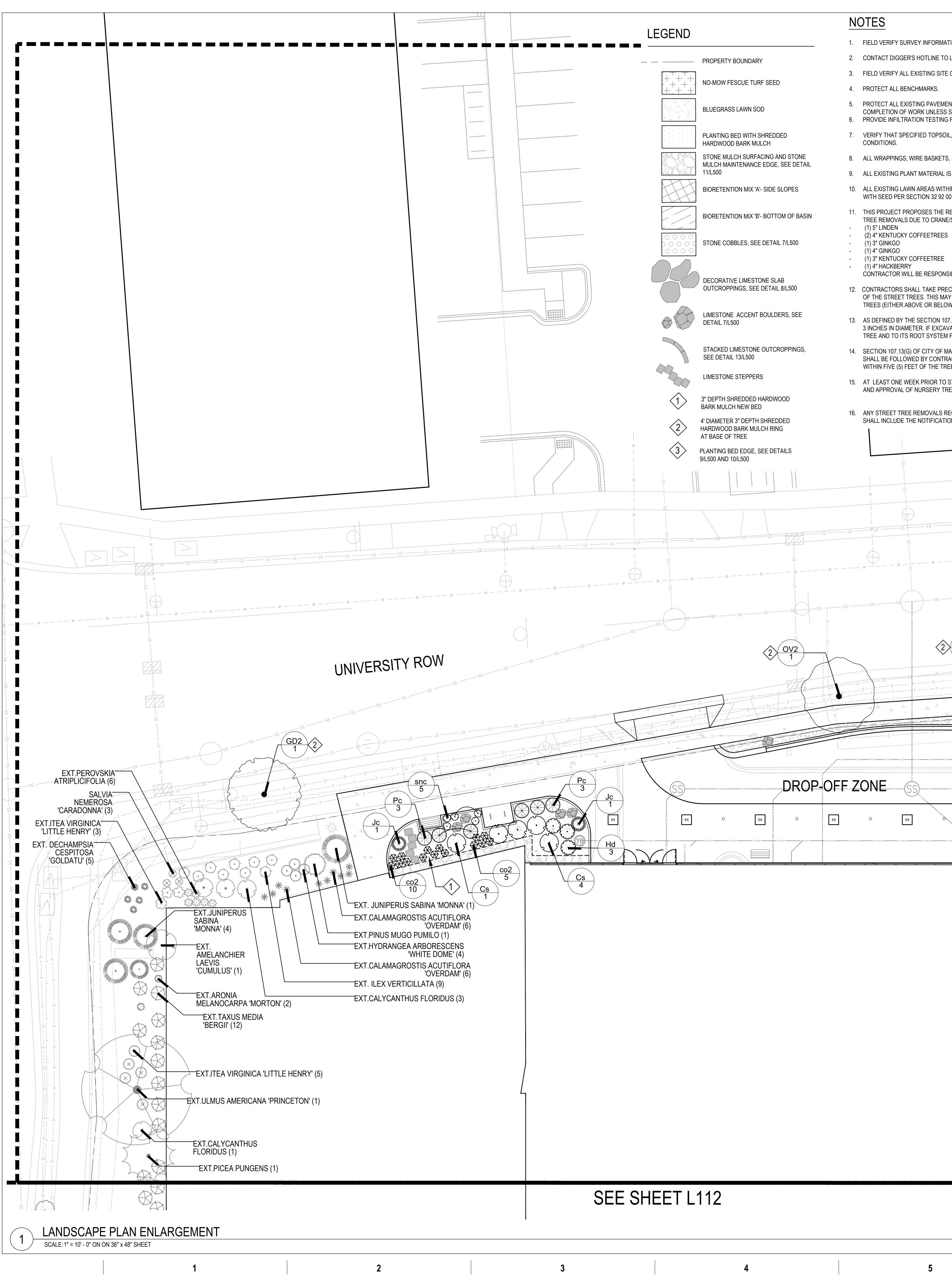
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	PROPERTY BOUNDARY
	NO-MOW FESCUE TURF SEED
	BLUEGRASS LAWN SOD
	PLANTING BED WITH SHREDDED HARDWOOD BARK MULCH
	STONE MULCH SURFACING AND STONE MULCH MAINTENANCE EDGE, SEE DETAIL 11/L500
	BIORETENTION MIX 'A'- SIDE SLOPES
	BIORETENTION MIX 'B'- BOTTOM OF BASIN
	STONE COBBLES, SEE DETAIL 7/L500
2	DECORATIVE LIMESTONE SLAB OUTCROPPINGS, SEE DETAIL 8/L500
)	LIMESTONE ACCENT BOULDERS, SEE DETAIL 7/L500
Å	STACKED LIMESTONE OUTCROPPINGS, SEE DETAIL 13/L500
00000	LIMESTONE STEPPERS
$\langle 1 \rangle$	3" DEPTH SHREDDED HARDWOOD BARK MULCH NEW BED
2>	4' DIAMETER 3" DEPTH SHREDDED HARDWOOD BARK MULCH RING AT BASE OF TREE
3>	PLANTING BED EDGE, SEE DETAILS 9/L500 AND 10/L500

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PLANT SCHEDULE

	0017		NOTEO			
BOTANICAL / COMMON NAME	<u>CONT</u>	<u>HEIGHT</u>	NOTES	<u>QTY</u>		
Juniperus chinensis 'Spartan' / Spartan Juniper	B&B	6` HT. (MIN.)	Single, straight leader	18		
Picea glauca `Densata` / Black Hills Spruce	B&B	6` HT. (MIN.)	Single, straight leader	12		milwaukee   madison   green bay   denver   atla 333 East Chicago Street
Picea pungens 'Fastigiata' / Columnar Colorado Spruce	B & B	4` HT. (MIN.)	Single, straight leader	29	F	Milwaukee, WI 53202 (414) 271-5350
Picea pungens 'Glauca' / Blue Colorado Spruce	В&В	6` HT. (MIN.)	Single, straight leader	4		www.eua.com PROJECT CONTACT: Rob Beisenstein DIRECT PHONE: 414-291-8145
Picea pungens glauca 'Hoopsii' / Hoopsii Blue Spruce	B & B	6` HT. (MIN.)	Single, straight leader	2		EMAIL ADDRESS: robb@eua.com
Thuja occidentalis North Pole / American Arborvitae	B & B	5` HT. (MIN.)	Single, straight leader	25		<b>UWHealth</b>
BOTANICAL / COMMON NAME	<u>CONT</u>	CAL	HEIGHT	<u>QTY</u>		
Amelanchier laevis `Cumulus` / Cumulus Allegheny Serviceberry	B & B	2"Cal	6` H (MIN.)	3		KRUPP
BOTANICAL / COMMON NAME	<u>CONT</u>	CAL	HEIGHT / NOTES	<u>QTY</u>		GENERAL CONTRACTORS
Acer freemanii `Jeffersred` TM / Autumn Blaze Maple	B & B	2.5"Cal	6` H (MIN.)	4		Affiliated Engineers®
Acer miyabei 'Morton' / State Street™ Miyabe Maple	B & B	2.5"Cal	6` H (MIN.)	3		
Acer x freemanii 'Armstrong' / Armstrong Freeman Maple	B & B	2.5"Cal	6` H (MIN.)	9		
Carpinus caroliniana 'J.N. Strain' / J.N. Strain American Hornbeam	B & B	2"Cal	6` H (MIN.)	2	E	PIERCE ENGINEERS, INC.
Celtis Occidentalis / Common Hackberry	B & B	2"Cal	Single, Straight Leader, Inspection by City Forestry Required	2		CONSULTING STRUCTURAL ENGINEERS 1110 Shuth Park Street, Madison, WILGPTS Prome: 603.251.8600
Gleditsia triacanthos `Skyline` / Skyline Honey Locust	B & B	2.5"Cal	6` H (MIN.)	2		
Gleditsia triacanthos inermis 'Draves' / Street Keeper® Honey Locust	B & B	2"Cal	Single, Straight Leader, Inspection by City Forestry Required	3		
Ostrya virginiana / American Hophornbeam	B & B	2"Cal	6` H (MIN.)	4		PROJECT INFORMATION
Ostrya virginiana / American Hophornbeam	B & B	2"Cal	Single, Straight Leader, Inspection by City Forestry Required	2		750 UNIVERSITY
Tilia americana 'Kromm' / Sweet Street™ American Linden	B & B	2"Cal	Single, Straight Leader, Inspection by City Forestry Required	2		ROW EXPANSION
Ulmus americana `Princeton` / American Elm	B & B	2.5"Cal	6` H (MIN.)	2		
BOTANICAL / COMMON NAME	CONT	<u>HEIGHT</u>	SPACING	<u>QTY</u>		
Aronia melanocarpa `Iroquois Beauty` TM / Black Chokeberry	3 gal		42" o.c.	10	D	750 University Row
Aronia melanocarpa 'UCONNAM165' / Low Scape Mound® Black Chokeberry	3 gal	12" HT (MIN.)	24" o.c.	12		Madison, WI 53705
Calycanthus floridus / Sweetshrub	3 gal	18" HT (MIN.)	60" o.c.	5		
Cornus sericea `Alleman`s Compact` / Dwarf Red Twig Dogwood	3 gal	18" HT. MIN.	54" o.c.	8		
Diervilla lonicera `Copper` / Copper Low Bush Honeysuckle	3 gal	18" HT (MIN.)	36" o.c.	5		
Hamamelis virginiana / Common Witch Hazel	5 gal	4` HT. (MIN.)	144" o.c.	1		ISSUANCE AND REVISIONS
Hydrangea arborescens 'Dardom' / White Dome™ Hydrangea	3 gal	18" HT (MIN.)	48" o.c.	16		DATE DESCRIPTION 05/15/2023 UDC & LAND USE
llex verticillata 'Jim Dandy' / Jim Dandy Winterberry	3 gal	18" HT. (MIN.)	72" o.c.	3		
Ilex verticillata 'Red Sprite' / Red Sprite Winterberry	3 gal	12" HT (MIN.)	48" o.c.	6		NueCONe.
Rhus aromatica `Gro-Low` / Gro-Low Fragrant Sumac	3 gal	12" HT (MIN.)	60" o.c.	18		Abbie Moilien
BOTANICAL / COMMON NAME	CONT	HEIGHT	SPACING	<u>QTY</u>	С	LA-673 Madison Wisconsin
Juniperus sabina 'Monna' / Calgary Carpet® Juniper	3 gal	6" HT (MIN,)	48" o.c.	7		CAPE ARCHITT
Pinus mugo 'Compacta' / Dwarf Mugo Pine	5 gal	18" HT (MIN.)	48" o.c.	9		April Moilien 5/15/2023
Taxus x media `Tauntoni` / Tauton Yew	3 gal	18" HT (MIN.)	60" o.c.	10		5/15/2023
BOTANICAL / COMMON NAME	CONT	HEIGHT	SPACING	<u>QTY</u>		KEY PLAN
Baptisia australis / Blue False Indigo	1 gal	12" HT (MIN.)	33" o.c.	12		
Salvia nemorosa `Caradonna` / Cardonna Perennial Salvia	1 gal	12" HT (MIN.)	24" o.c.	8		
BOTANICAL / COMMON NAME	<u>SIZE</u>	<u>SIZE</u>	SPACING	<u>QTY</u>		
Bouteloua gracilis `Blonde Ambition` / Blonde Ambition Blue Grama Grass	1 gal	12" HT (MIN.)	24" o.c.	7		
Calamagrostis x acutiflora 'Overdam' / Overdam Feather Reed Grass	1 gal	12" HT (MIN.)	24" o.c.	22		
Panicum virgatum `North Wind` / Northwind Switch Grass	1 gal	18" HT (MIN.)	36" o.c.	21	В	
Schizachyrium scoparium `The Blues` / The Blues Little Bluestem	1 gal	12" HT (MIN.)	18" o.c.	33		
Sesleria autumnalis / Autumn Moor Grass	1 gal	12" HT (MIN.)	18" o.c.	43		
Sporobolus heterolepis `Tara` / Prairie Dropseed	1 gal	12" HT (MIN.)	18" o.c.	6		Ν
BOTANICAL / COMMON NAME BIORETENTION MIX `A`- SIDE SLOPES	<u>CONT</u>	SPACING	<u>QTY</u>		_	
Anemone canadensis / Canadian Anemone Aster ericoides / Heath Aster Carex comosa / Longhair Sedge	2 1/2" Plug 2 1/2" Plug 2 1/2" Plug	12" o.c. 12" o.c. 12" o.c.	150 150 150			PROGRESS DOCUMENTS
Echinacea pallida / Pale Purple Coneflower Elymus virginicus / Virginia Wild Rye Eupatorium perfoliatum / Common Boneset	2 1/2" Plug 2 1/2" Plug 2 1/2" Plug	12" o.c. 12" o.c. 12" o.c.	166 150 150			NOT FOR CONSTRUCTION These documents reflect progress and intent and may be subject to change including additional detail. These
Liatris spicata / Blazing Star Penstemon digitalis / Beardtongue Rudbeckia hirta / Black-eyed Susan	2 1/2" Plug 2 1/2" Plug 2 1/2" Plug 2 1/2" Plug	12" o.c. 12" o.c. 12" o.c.	150 150 150			be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.
Sporobolus heterolepis / Prairie Dropseed Verbena hastata / Blue Vervain	2 1/2" Plug 2 1/2" Plug 2 1/2" Plug	12" o.c. 12" o.c. 12" o.c.	150 150 150			
BIORETENTION MIX `B`- BOTTOM OF BASIN Asclenias incarnata / Swamp Milkweed	<b>) 1/)</b> אום ווע	10"	213		_	PROJECT MANAGER RB
Asclepias incarnata / Swamp Milkweed Carex hystericina / Porcupine Sedge Carex muskingumensis / Palm Sedge	2 1/2" Plug 2 1/2" Plug 2 1/2" Plug 2 1/2" Plug	12" o.c. 12" o.c. 12" o.c.	213 213 213		A	PROJECT NUMBER 422291
Carex vulpinoidea / Fox Sedge Eupatorium perfoliatum / Common Boneset Iris virginica shrevei / Shreve's Iris	2 1/2" Plug 2 1/2" Plug 2 1/2" Plug	12" o.c. 12" o.c. 12" o.c.	213 213 213			LANDSCAPE PLAN
Liatris spicata / Blazing Star Lobelia siphilitica / Great Lobelia Monarda fistulosa / Bergamot	2 1/2" Plug 2 1/2" Plug 2 1/2" Plug 2 1/2" Plug	12" o.c. 12" o.c. 12" o.c.	213 213 213			OVERVIEW
Verbena hastata / Blue Vervain	2 1/2" Plug	12" o.c. 0	213 40' 80'			
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1. FIELD VERIFY SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE PROJECT REPRESENTATIVE.

2. CONTACT DIGGER'S HOTLINE TO LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO STARTING WORK.

3. FIELD VERIFY ALL EXISTING SITE CONDITIONS AND UTILITIES PRIOR TO STARTING WORK. ANY DAMAGE CAUSED TO UTILITIES, EITHER SHOWN OR NOT, SHALL BE REPAIRED AND PAID FOR AT THE CONTRACTOR'S EXPENSE.

5. PROTECT ALL EXISTING PAVEMENTS, CURBS, UTILITIES, AND OTHER IMPROVEMENTS (TO REMAIN) FROM CONSTRUCTION ACTIVITIES. RESTORE ALL AREAS DISTURBED BY CONSTRUCTION RELATED ACTIVITIES TO EXISTING CONDITIONS AT COMPLETION OF WORK UNLESS SHOWN OTHERWISE ON PLANS. 6. PROVIDE INFILTRATION TESTING PRIOR TO PLACEMENT OF ENGINEERED SOIL FOR EACH BIOINFILTRATION AREA.

7. VERIFY THAT SPECIFIED TOPSOIL, PLANTING MIXTURE, AND ENGINEERED SOIL DEPTHS ARE PRESENT PRIOR TO PLANTING PER SECTION 32 91 13 'SOIL PREPARATION. NOTIFY PROJECT REPRESENTATIVE OF ANY NON-CONFORMING

8. ALL WRAPPINGS, WIRE BASKETS, BURLAP, AND OTHER MISCELLANEOUS MATERIAL SHALL BE COMPLETELY REMOVED FROM ALL SHRUB AND TREE ROOT BALLS PRIOR TO INSTALLATION. 9. ALL EXISTING PLANT MATERIAL IS SHOWN AT EXISTING APPROXIMATE SIZE PER CITY OF MADISON STANDARDS.

10. ALL EXISTING LAWN AREAS WITHIN AND ADJACENT TO THE PROJECT SITE THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO, UTILITY TRENCHING, ACCESS, OR MATERIALS STORAGE SHALL BE REPAIRED WITH SEED PER SECTION 32 92 00, 'TURF AND GRASSES.'

11. THIS PROJECT PROPOSES THE REMOVAL OF SEVEN (7) EXISTING TREES IN THE UNIVERSITY ROW TERRACE. THE CONTRACTOR SHALL CONTACT CITY FORESTRY AT (608)266-4816 TO ISSUE A STREET TREE REMOVAL PERMIT FOR THE FOLLOW TREE REMOVALS DUE TO CRANE/STAGING CONFLICT AND MAJOR STORM UTILITY RELOCATION ALONG THE UNIVERSITY ROW RIGHT-OF-WAY:

CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF THE TREE AND FOR ALL COORDINATION AND PERMITTING WITH CITY FORESTRY STAFF.

12. CONTRACTORS SHALL TAKE PRECAUTIONS DURING CONSTRUCTION TO NOT DISFIGURE, SCAR, OR IMPAIR THE HEALTH OF ANY STREET TREE(S0. CONTRACTOR SHALL OPERATE EQUIPMENT IN A MANNER AS TO NOT DAMAGE THE BRANCHES OF THE STREET TREES. THIS MAY REQUIRE USING SMALLER EQUIMPENT AND LOADING AN DUNLOADING MATIERIALS IN A DESIGNATED SPACE AWAY FROM TREES ON THE CONSTRUCTION SITE. ANY DAMAGE OR INJURY TO EXISTING STREET TREES (EITHER ABOVE OR BELOW GROUND) SHALL BE REPORTED IMMEDIATELY TO CITY FORESTRY AT (608) 266-4816. PENALTIES AND REMEDIATION SHALL BE REQUIRED.

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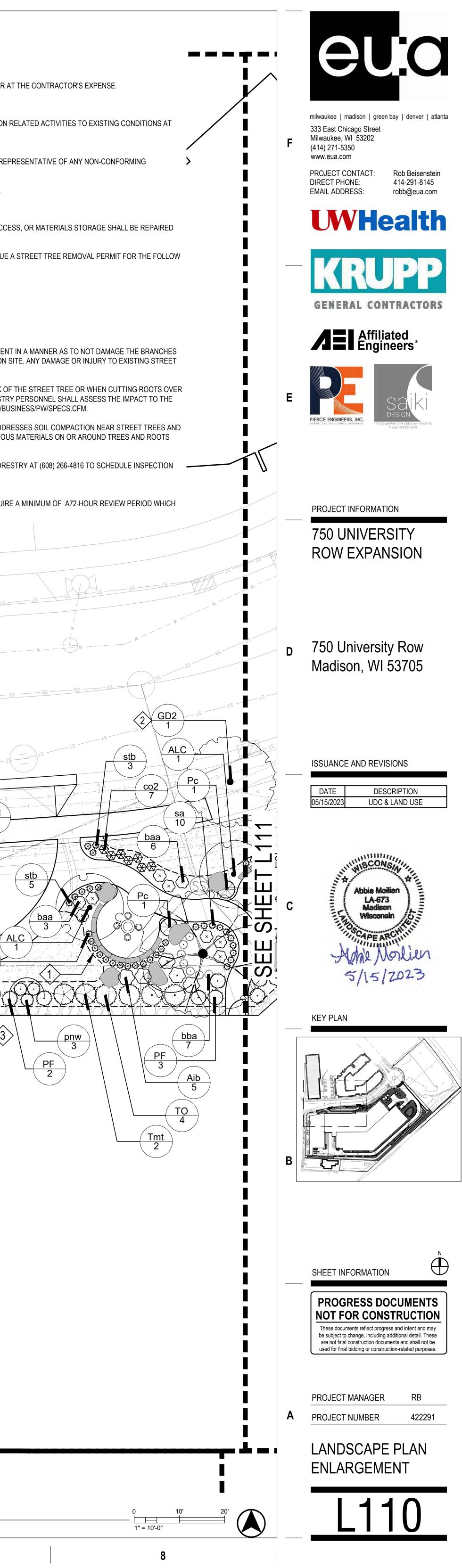
16. ANY STREET TREE REMOVALS REQUESTED AFTER THE DEVELOPMENT PLAN IS APPROVED BY THE PLAN COMMISSION OR THE BOARD OF PUBLIC WORKS AND CITY FORESTRY WILL REQUIRE A MINIMUM OF A72-HOUR REVIEW PERIOD WHICH SHALL INCLUDE THE NOTIFICATION OF THE ALDERPERSON WITHIN WHOSE DISTRICT IS AFFECTED BY THE STREET TREE REMOVAL(S) PRIOR TO A TREE REMOVAL PERMIT BEING ISSUED. 

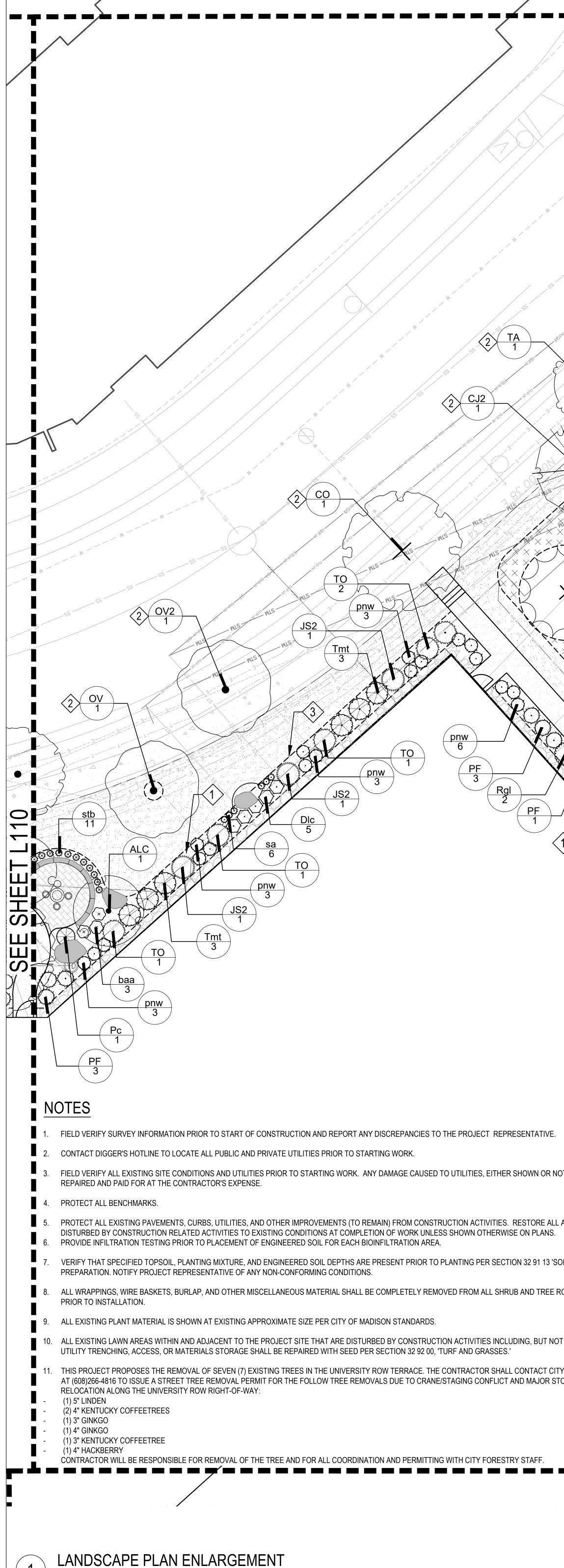
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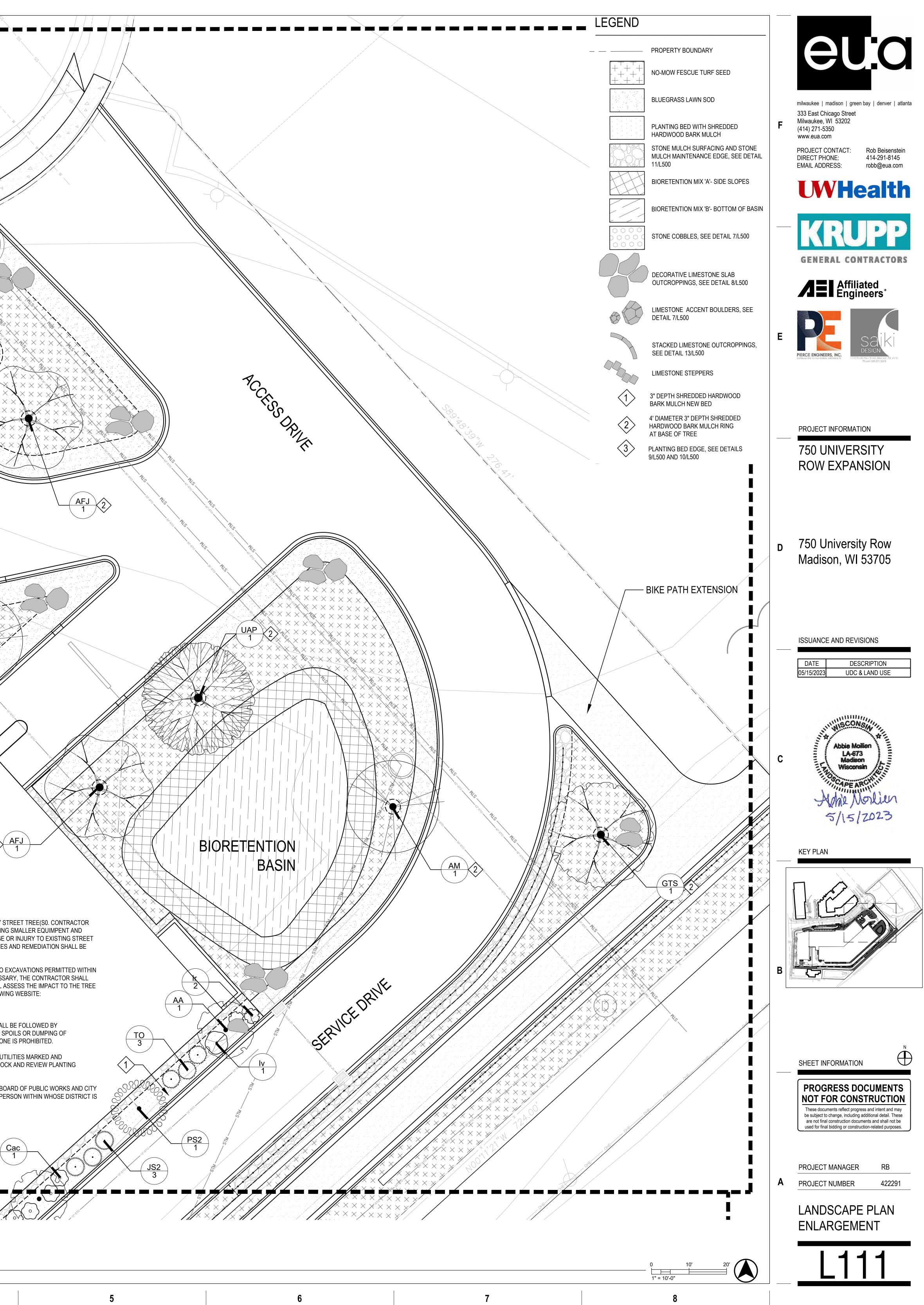
## NEW BUILDING

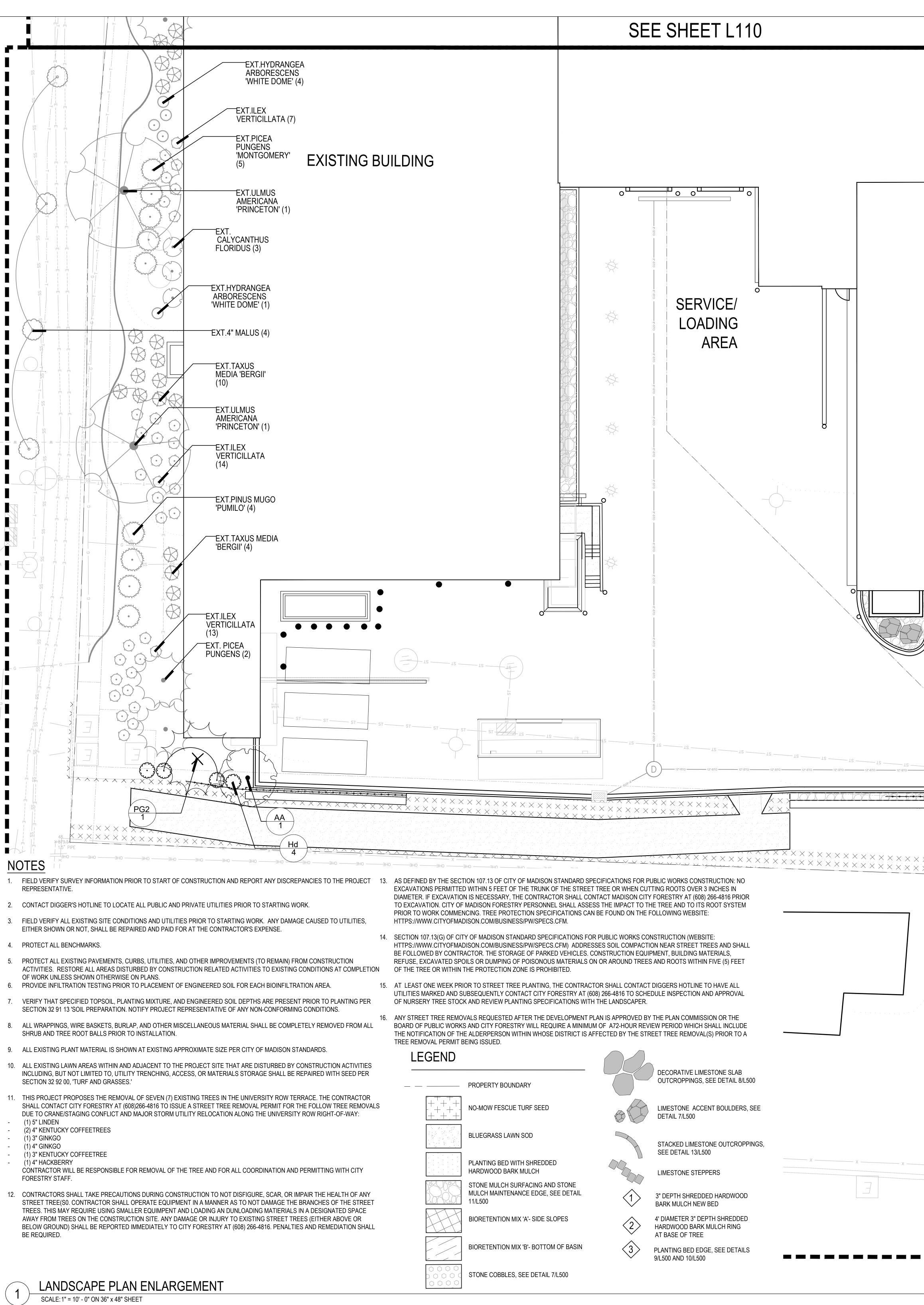




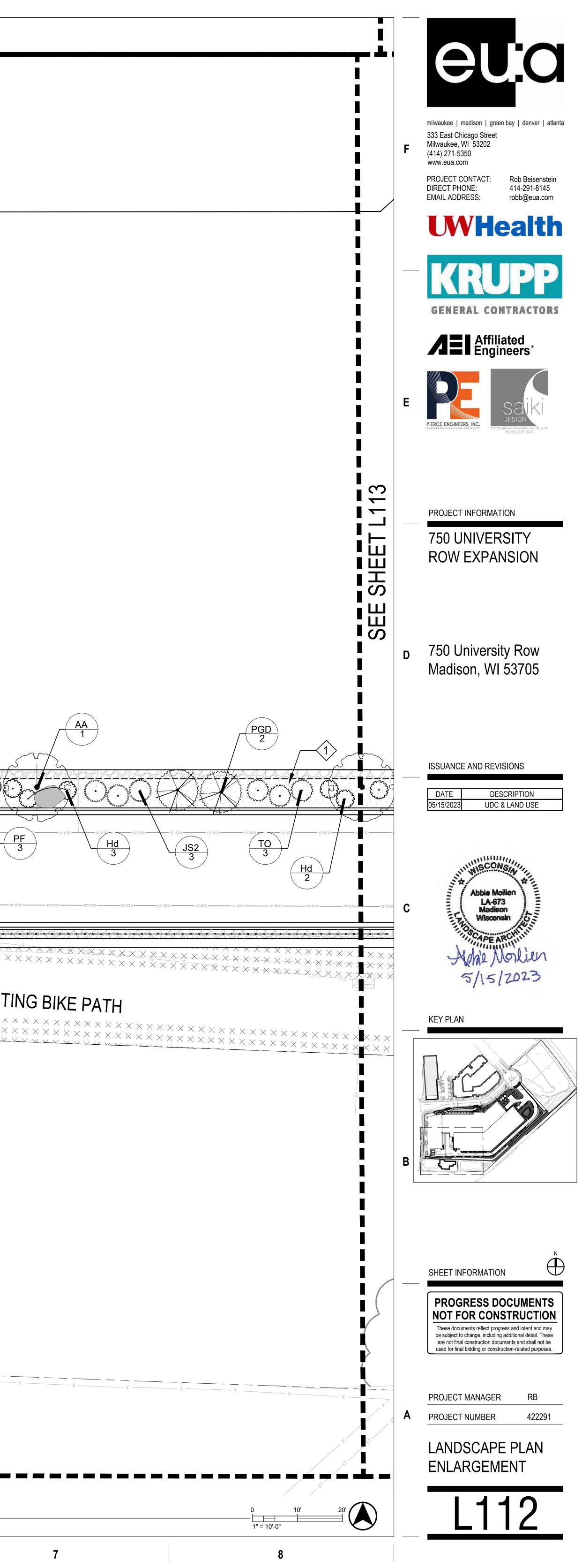
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DT, SHALL BE	REQUIRED.	BOVE OR BELOW GROUND)	SHALL BE REPORTED IMMEDIAT	ELY TO CITY FORESTR	Y AT (608) 266-4816. PENAL	TIES AND REMEDIATION SHA
13.	5 FEET OF THE TR	RUNK OF THE STREET TREE	OF MADISON STANDARD SPECIF OR WHEN CUTTING ROOTS OVE	R 3 INCHES IN DIAMETI	ER. IF EXCAVATION IS NEC	ESSARY, THE CONTRACTOR
AREAS	AND TO ITS ROOT		266-4816 PRIOR TO EXCAVATION COMMENCING. TREE PROTECTIC SS/PW/SPECS.CFM.			
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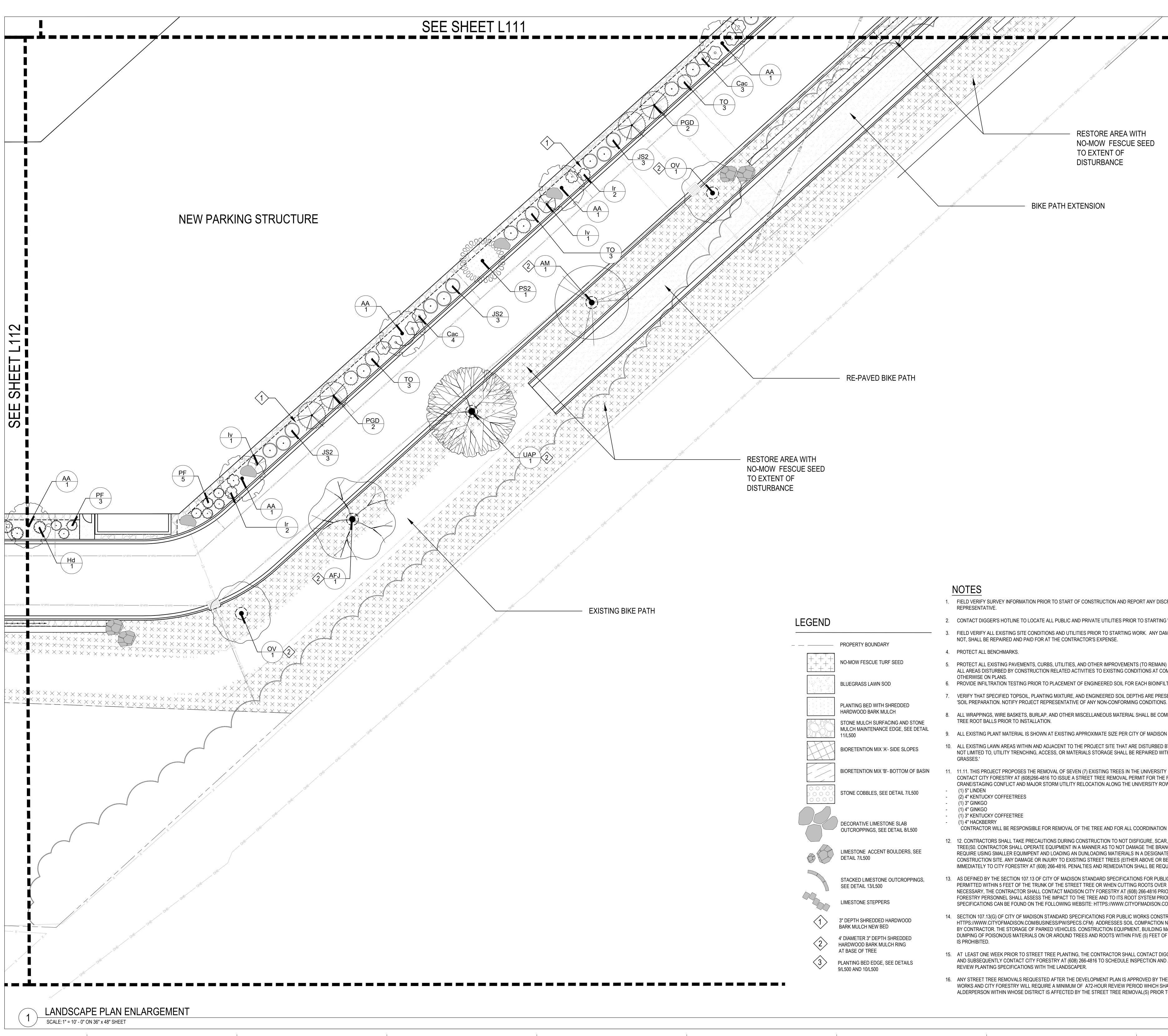






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- FIELD VERIFY SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION AND REPORT ANY DISC

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	PROJECT INFORMATION 750 UNIVERSITY ROW EXPANSION
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	ISSUANCE AND REVISIONS
CREPANCIES TO THE PROJECT G WORK. MAGE CAUSED TO UTILITIES, EITHER SHOWN OR	C Abbie Moilien LA-673 Madison Wisconsin Wisconsin Madison Wisconsin Madison Wisconsin Madison Madison Wisconsin Madison Mison Madis
ITRATION OF WORK UNLESS SHOWN LTRATION AREA. SENT PRIOR TO PLANTING PER SECTION 32 91 13 S. MPLETELY REMOVED FROM ALL SHRUB AND N STANDARDS. BY CONSTRUCTION ACTIVITIES INCLUDING, BUT TH SEED PER SECTION 32 92 00, 'TURF AND Y ROW TERRACE. THE CONTRACTOR SHALL	KEY PLAN
E FOLLOW TREE REMOVALS DUE TO OW RIGHT-OF-WAY: N AND PERMITTING WITH CITY FORESTRY STAFF. R, OR IMPAIR THE HEALTH OF ANY STREET NCHES OF THE STREET TREES. THIS MAY	
TED SPACE AWAY FROM TREES ON THE BELOW GROUND) SHALL BE REPORTED QUIRED. LIC WORKS CONSTRUCTION: NO EXCAVATIONS R 3 INCHES IN DIAMETER. IF EXCAVATION IS IOR TO EXCAVATION. CITY OF MADISON OR TO WORK COMMENCING. TREE PROTECTION COM/BUSINESS/PW/SPECS.CFM.	SHEET INFORMATION  PROGRESS DOCUMENTS NOT FOR CONSTRUCTIO  These documents reflect progress and intent and ma be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes
NEAR STREET TREES AND SHALL BE FOLLOWED MATERIALS, REFUSE, EXCAVATED SPOILS OR IF THE TREE OR WITHIN THE PROTECTION ZONE GGERS HOTLINE TO HAVE ALL UTILITIES MARKED D APPROVAL OF NURSERY TREE STOCK AND IE PLAN COMMISSION OR THE BOARD OF PUBLIC HALL INCLUDE THE NOTIFICATION OF THE TO A TREE REMOVAL PERMIT BEING ISSUED	A PROJECT MANAGER RB PROJECT NUMBER 422291 LANDSCAPE PLAN ENLARGEMENT
0 10' 20' O	L113

**EU**IO

nilwaukee | madison | green bay | denver | atlanta

**UWHealth** 

KRUPP

**GENERAL CONTRACTORS** 

Affiliated Engineers<sup>®</sup>

Rob Beisensteir

414-291-8145

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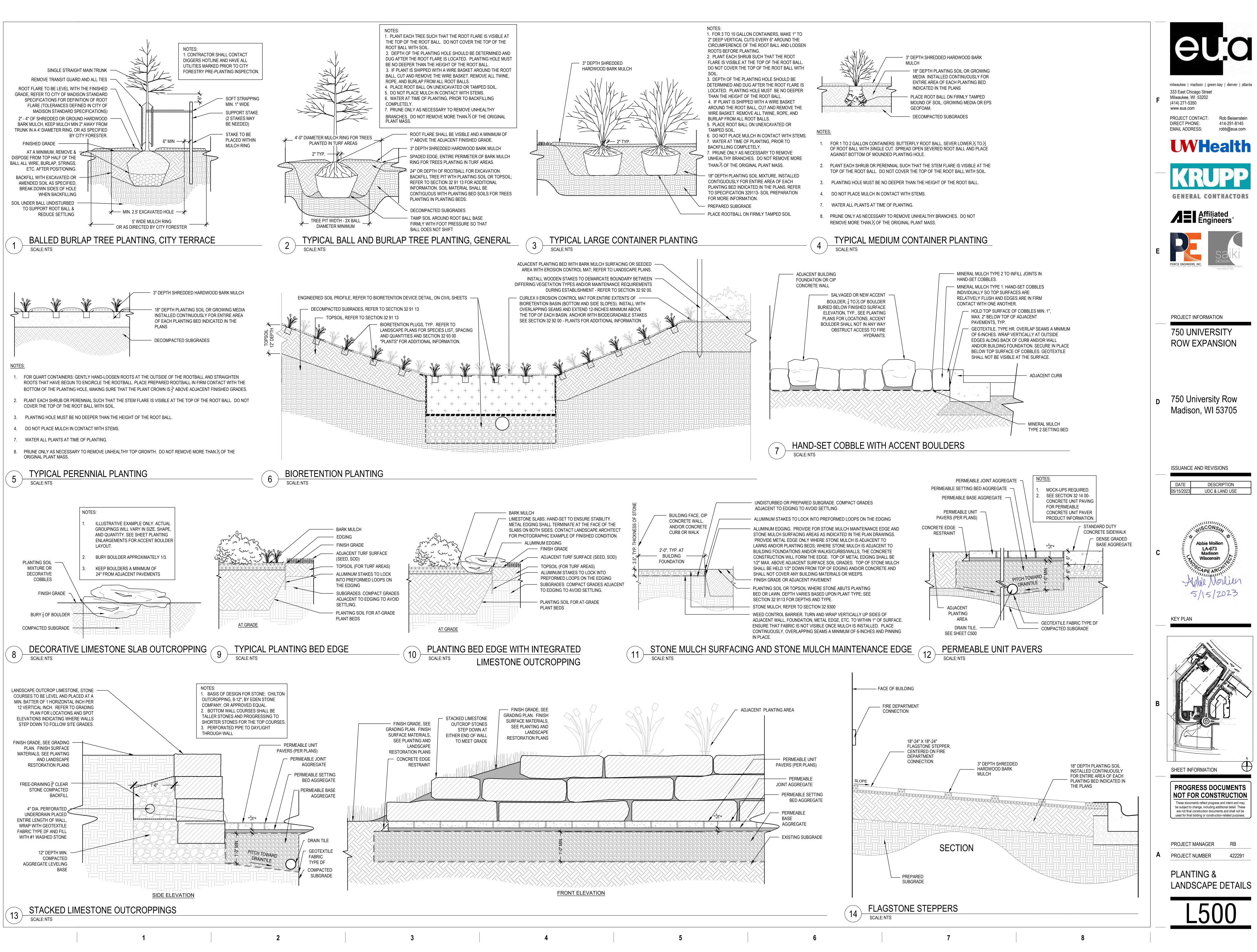
333 East Chicago Street Milwaukee, WI 53202 (414) 271-5350 www.eua.com

**PROJECT CONTACT:** 

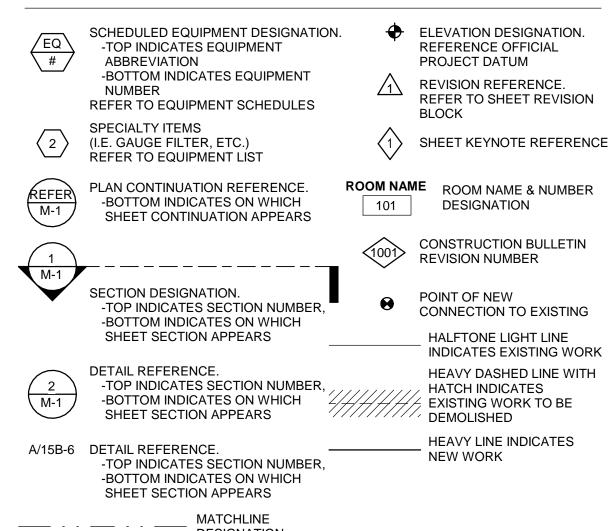
DIRECT PHONE:

EMAIL ADDRESS:

**RESTORE AREA WITH** NO-MOW FESCUE SEED



### SHEET SYMBOLS



DESIGNATION

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### STANDARD MOUNTING REQUIREMENTS

NALL DEVICES	MOUNTING HEIGHT
RECEPTACLE	1'-6"
POWER OUTLET	1'-6"
SURFACE MOUNTED RACEWAY	3'-6"
ABOVE COUNTEROP/CASEWORK RECEPTACLE	2" ABOVE COUNTERTOP BACKSPLASH OR ABOVE CASEWORK - FIELD VERIFY
PUSHBUTTONS	3'-6"
FIRE ALARM PULL STATIONS	4'-0"
FIREMAN'S PHONE	4'-6"
FIRE ALARM NOTIFICATION DEVICES	80" AFF TO BOTTOM OF FACEPLATE OR 6" FROM TOP OF FACEPLATE TO CEILING, WHICH EVER IS LOWER
IGHTING CONTROL STATIONS	3'-6"
IGHTING CONTROL SENSORS	8'-0"
DISCONNECT SWITCHES	MIN. 3'-6" ; MAX. 6'-6"
PANELS/CABINETS	TOP BREAKER HANDLE MAX 6'-6"
ENCLOSED CIRCUIT BREAKERS	MIN. 3'-6" ; MAX. 6'-6"

FINISHED FLOOR UNLESS OTHERWISE NOTED. 2. ALL MOUNTING HEIGHTS SHALL BE CONFIRMED WITH ARCHITECTURAL DRAWINGS AND REQUIREMENTS. IN CASE OF CONFLICT - ARCHITECTURAL INFORMATION SHALL BE FOLLOWED.

CEILING MOUNTED DEVICES: 1. ALL CEILING MOUNTED DEVICES ON ACOUSTICAL CEILING TILE SHALL BE CENTERED ON TILE UNLESS OTHERWISE NOTED. 2. ALL CEILING MOUNTED DEVICES IN HARD LID CEILING SHALL BE CENTER ALIGNED WITH OTHER NEARBY CEILING EQUIPMENT UNLESS OTHERWISE NOTED.

3. REFER TO ARCHITECTURAL RCPS FOR CEILING HEIGHTS.

### ONE LINE DIAGRAM \_\_\_\_\_

uw m	TRANSFORMER	• AUTOMATIC TRANSFER
$\frac{1}{1}$	ELECTROSTATIC SHIELDED	SWITCH
<u> </u>	METER WITH CURRENT TRANSFORMER	
5	CURRENT TRANSFORMER	BYPASS ISOLATION AUTOMATIC TRANSFI
⊱	POTENTIAL TRANSFORMER	
	FIXED MOUNT CIRCUIT BREAKER	
<b>~~</b> •>>	LOW VOLTAGE DRAW-OUT AIR CIRCUIT BREAKER	P# PANELBOARD
≪{##}≫	MEDIUM-VOLTAGE DRAW-OUT VACUUM CIRCUIT BREAKER ## - REFER TO ANSI DEVICE	
<u>,</u>	FUNCTION NUMBERS SWITCH	
Υ <u>∓</u>	GROUNDED "Y" SYSTEM	SWITCHBOARD, DISTRIBUTION BOARD ENCLOSURE
$\bigtriangleup$	DELTA SYSTEM	— ı ı ı— battery
EGS	ENGINE GENERATOR SET	FUSE
#	FEEDER TAG	CALL DRAW-OUT FUSE

## ANSI DEVICE FUNCTION NUMBERS

- 25 = SYNC CHECK 26 = LIQUID THERMAL RELAY 51N = NEUTRAL TIME OVERCURRENT 51G = GROUND TIME OVERCURRENT 27 = UNDERVOLTAGE 52 = CIRCUIT BREAKER 32 = REVERSE POWER 59 = OVERVOLTAGE 47 = PHASE SEQUENCE 49 = WINDING THERMAL RELAY 81U = UNDER-FREQUNECY 50 = INSTANTANEOUS OVERCURRENT 50N = NEUTRAL INSTANTANEOUS 810 = OVER-FREQUENCY 83 = CONTROL POWER AUTO-OVERCURRENT 50G = GROUND INSTANTANEOUS TRANSFER
- OVERCURRENT 51 = TIME OVERCURRENT
- 63 = SUDDEN PRESSURE RELAY 71 = LIQUID LEVEL RELAY
- 86 = LOCKOUT RELAY

87 = DIFFERENTIAL

## **ELECTRICAL SYMBOLS AND ABBREVIATIONS**

### 

	LIGHTING
TO SOURCE PANEL NAME FOR BRANCH DE	
SHADED REGION DESIGNATES LUMINAIRE TO SOURCE PANEL NAME FOR BRANCH DE	ON STANDBY/CRITICAL BRANCH POWER - REFER SIGNATION
LUMINAIRE ID - SEE LUMINAIRE SCHEE	
×# ├─────┤	E BATTERY PACK/INVERTER
##/xx	<ul> <li>ARROW ADDED TO LUMINAIRE SYMBOL TO INDICATE</li> </ul>
CIRCUIT/SWITCH	DIRECTION TOWARDS WHICH THE LUMINAIRE IS TO POINT.
LUMINAIRE SYMBOLS - REFER TO LUMINAIR	E SCHEDULE FOR MORE
INFORMATION SMALL PROFILE LUMINAIRE LIGHTIN	IG TRACK
<b>√</b> TRA	ACK HEAD
CEILING MOUNTED LUMINAIRES	
SURFACE MOUNTED	
······································	
VALL MOUNTED LUMINAIRES RECESSED	
Þ P Þ P	
SURFACE MOUNTED	
	- <u></u>
FLOOR OR GRADE MOUNTED LIGHTS	
SINGLE HEAD POLE LIGHT	
	QUAD HEAD POLE LIGHT
POLE LIGHT	
O D PEDESTRIAN POLES/POST	
	TED LUMINAIRE
EXIT SIGNS - CEILING MOUNTED	
SINGLE FACE OUBLE FACE	- DIRECTIONAL ARROW
XIT SIGNS - WALL MOUNTED	
SINGLE FACE SINGLE FACE	ARROW
SINGLE HEAD	
	LIGHTING CONTROL
y = SWITCH ID, REFER TO PLANS	
X = SWITCH TYPE DESIGNATION, RE XX = CONTROL STATION DESIGNATI Z = SENSOR TYPE DESIGNATION, RI	ON, REFER TO CHART BELOW
X LOW VOLTAGE CONTROL \$	
y entitett	
	CONTROL
	Zy WALL SENSOR FOR LIGHTING CONTROL
	ENSOR TYPE DESIGNATION CHART = SENSOR TYPE DESIGNATION
3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH	PIR = PASSIVE INFRARED PIR/D = PASSIVE INFRARED WITH DIMMER
2 = TWO POLE SWITCH 2P = 2 POLE, DUAL RELAY	PIRA = PASSIVE INFRARED WITH AMBIENT LIGHT 2P = 2 POLE, DUAL RELAY
K = KEY SWITCH MC = MOMENTARY CONTACT	U = ULTRAŜONIC DT = DUAL TECHNOLOGY
D = DIMMER P = SWITCH WITH PILOT LIGHT	AL = AMBIENT LIGHT SENSOR PC = PHOTOCELL
V-M = I OW VOLTAGE "M"- XX	DNTROL STATION DESIGNATION CHART ( = CONTROL STATION DESIGNATION
MASTER SWITCH DM = REMOTE CONTROL FOR	TC = TIMECLOCK PC = PHOTOCELL
MOTORIZED DAMPER	LC#= LIGHTING CONTROL STATION
	DAYLIGHT ZONES

PRIMARY ZONE

SECONDARY ZONE

Х	
=⊖_ <sub>Xa</sub>	DUPLEX RECEPTACLE, UPPER HALF SWITCHED, LOWER HALF HOT
$-\Theta_{\chi}$	SINGLE RECEPTACLE
-æ <sub>x</sub>	DOUBLE DUPLEX RECEPTACLE
-\$	LOCKING RECEPTACLE
$- \otimes_{Y}$	POWER OUTLET
-0	FIXED EQUIPMENT CONNECTION

### MOUNT ABOVE

### MOUNTI MOUNTE

IEMA CONFIGURATION CHART
= NEMA CONFIGURATION
A = 20A, 125V, NEMA 5-20R
B = 20A, 125V, NEMA L5-20R
C = 30A, 125V, NEMA 5-30R
D = 30A, 125V, NEMA L5-30R
E = 50A, 125V, NEMA 5-50R
F = 50A, 125V, NEMA L5-50R
G = 20A, 250V, NEMA 6-20R
H = 20A, 250V, NEMA L6-20R
J = 30A, 250V, NEMA 6-30R
K = 30A, 250V, NEMA L6-30R
L = 50A, 250V, NEMA 6-50R
M= 50A, 250V, NEMA L6-50R
N = 20A, 250V, NEMA 15-20R
P = 20A, 250V, NEMA L15-20R
Q = 30A, 277V, NEMA 7-30R
R = 30A, 277V, NEMA L7-30R
S = 20A, 125/250V, NEMA 14-20R
T = 20A, 125/250V, NEMA L14-20R
U = 30A, 125/250V, NEMA 14-30R
V = 30A, 125/250V, NEMA L14-30R
W= 50A, 125/208V, NEMA 18-50R
Y = 30A, 125/250V, NEMA 15-30R

MOUNT	ING LOCATION: CEILING
€x	DUPLEX RECEPTACLE
€	DOUBLE DUPLEX RECEPT
$\Theta_{Y}$	POWER OUTLET

RECEP	TACLE TYPE DESIGNATION
X = TYF	Έ
AF =	AFCI RECEPTACLE
CR =	CONTROLLED RECEPTACL
DR =	DEDICATED RECEPTACLE

IG = I	SOLATED GROUND RECE
GF = 0	GFCI RECEPTACLE
SP = S	SURGE PROTECTION REC
SR = S	SPECIAL PURPOSE RECEP
TR = 1	TAMPER RESISTANT RECE
US = l	JSB RECEPTACLE
WC = \	WEATHERPROOF COVER
WP = V	NEATHERPROOF COVER,
WR = V	WEATHERPROOF COVER,
F	RECEPTACLE

		RECEPTACLES		FIRE ALARM			LECTR	<sup>l</sup> C
				NTING HEIGHT: 80" AFF TO BOTTOM OF	AC - ABC	OVE CEILING /	LAN LED	-
			FACEPLATE OR 6" FROM TOP OF FACEPLATE T	TO CEILING, WHICH EVER IS LOWER.			LI LSI	-   -
	SOURCE PANEL NAME FOR BRAN	CH DESIGNATION		N ACOUSTICAL CEILING TILE TO BE			LSIA	-
	,			HARD LID CEILING TO BE CENTER	INT	ERRUPTER	ALARM	ľ
A La BUCK DEELE CARL CARL CARL CARL CARL CARL CARL CARL					AIC - AM	P INTERRUPTING CAPACITY	LSIG	-
					ARCH - AR	CHITECTURAL	LTCP	-
		—	XX=TYPE		AT - AM	PERE TRIP	LTG LTS	-
	Xa UPPER HALF SWITCHED,	DOUBLE DUPLEX RECEPTACLE	DC = DRY CHEMICAL	IVI	ATS - AU	TOMATIC TRANSFER SWITCH		-
		MULTI-TRADE AV, POWER & DATA	HL = HALON				MATV MC	-   -
			BOX	S SPEAKER ONLY	BFC - BEI	LOW FINISH CEILING	MCB MCC	-
Constrained and the second and	<ul> <li>LOCKING RECEPTACLE</li> </ul>	DUPLEX RECEPTACLE		COMBINATION HORN/STROBE	BLDG - BUI	LDING	MCP MER	- 1
			WM = WATER MIST		INS	TRUMENTATION PANEL	MH MLO	-
Montres according multi-     meta accor	FIXED EQUIPMENT CONNECTION						MPTB MTD	-
MAINTENDENCEMENT AND WIRENESS	•			cd cd = CANDELA RATING/SETTING	CB - CIR	CUIT BREAKER	MTG MTG HG	- - T-
					CFCI - CO	NTRACTOR FURNISHED,	MTGTIG MTR MV	
					CGL - CEI	LING	NA	-
			M = MANUAL RELEASING		CO - CO	NDUIT ONLY	NAC	-
	X		TS = TAMPER SWITCH		CORR - CO	RRIDOR		-
		MOUNTING LOCATION: CEILING	PS = PRESSURE	-			NEC NIC	-
	X DUPLEX RECEPTACLE	$\bigoplus_{X}$ DUPLEX RECEPTACLE	LS = LEVEL DETECTOR/SWITCH				NO NTS	-
Constrained and a set of the second of		OUBLE DUPLEX RECEPTACLE	SUPERVISORY SWITCH	C=CEILING MOUNTED	DED - DEI	DICATED	OC	-
		OY POWER OUTLET	SWITCH		DIA - DIA	METER	OFCI	- (
	SURFACE MOUNTED RACEW	ΑY	SWITCH	Cd WALL MOUNT	DN - DO	WN	OFOI	- (
	MA CONFIGURATION CHART	RECEPTACLE TYPE DESIGNATION CHART					Р	-
	NEMA CONFIGURATION	X = TYPE					PA PB	-
Constrained and a constrained and constrained and constrained and a constrained and a constrained	s = 20A, 125V, NEMA L5-20R	CR = CONTROLLED RECEPTACLE			EGC - EQ	UIPMENT GROUND	PC	-
F = 34, IEEE MARKEN LESSER     F = 34, MERCENAL STOR     F = 44, MERCENAL STOR     F = 44, MERCENAL     F = 44, MERCENAL STOR     F = 44, MERCE	9 = 30A, 125V, NEMA L5-30R	IG = ISOLATED GROUND RECEPTACLE	$\uparrow$	cd (STROBE) WALL MOUNT			PDU PF	-   -
A Source Provided and the second and the secon	= 50A, 125V, NEMA L5-50R	SP = SURGE PROTECTION RECEPTACLE					PH PLBG	-
K- BAC 2007 MEMA 1938     Key Memory 2014 (1938)     Key Memory 2014 (1934)     Key Memory 2014 (	I = 20A, 250V, NEMA L6-20R	TR = TAMPER RESISTANT RECEPTACLE	A = ABORT SWITCH	Cd (STROBE) CEILING MOUNT			PNL POD	-
<ul> <li></li></ul>	L = 30A, 250V, NEMA L6-30R	WC = WEATHERPROOF COVER ONLY	DC = DRY CHEMICAL				PS PT	-
Construction and the second of the seco	1= 50A, 250V, NEMA L6-50R	WR = WEATHERPROOF COVER, WEATHER RESISTANT	FO = FOAM	RI REMOTE INDICATOR	EM/EMER- EM	ERGENCY	PTRV	
<ul> <li></li></ul>	P = 20A, 250V, NEMA L15-20R	RECEPTACLE	CA = CLEAN AGENT	CEILING MOUNT INDICATOR	INT	ERFERENCE	PWR	-
To addition the state addition to be addithe additin the addition to be addition to b	R = 30A, 277V, NEMA L7-30R		DL = DELUGE FIRE SPRINKLER	RI	EQUIP - EQ	UIPMENT	REC RECEP	-
<sup>1</sup> → 30x, 12232500, NEMA H-30R <sup>1</sup> → 30x, 12232500, NEMA H-30R <sup>1</sup> → 1000 F STATES - BARGENOV <sup>1</sup> → 1000 F STATES	= 20A, 125/250V, NEMA L14-20R			ROTATING BEACON	ETR - EXI	STING TO REMAIN	REL REQD	-
Y = 30A, 129220V, NEMA 15-30R       FRANC DAMAGE STATUCTION BOX       FRANC DAMAGE STATUCTION BOX       FRANC DAMAGE STATUCTION BOX       FRANC DAMAGE STATUCTION BOX         Y = 30A, 129220V, NEMA 15-30R       SURFACE JUNCTION BOX       SURFACE JUNCTION BOX       FRANC DAMAGE STATUCTION BOX         Y = TRANSFORMER       SURFACE JUNCTION BOX       SURFACE JUNCTION BOX       FRANC DAMAGE STATUCTION       FRANC DAMAGE STATUCTION       FRANC DAMAGE STATUCTION         Y = TRANSFORMER       SURFACE JUNCTION BOX       SURFACE JUNCTION BOX       FRANC DAMAGE STATUCTION       FRANC DAMA	′ = 30A, 125/250V, NEMA L14-30R		XX XX=TYPE	REMOTE ALARM INDICATING			RMC	-
EQUIPMENT AND WIRING       F= FIXED TEMPERATURE R = RATE OF RISE ONLY       FPR = BERNOY FIXED TEMPERATURE R = RATE OF RISE ONLY       FPR = BERNOY FIXED TEMPERATURE R = RATE OF RISE ONLY       FPR = BERNOY FIXED TEMPERATURE R = RATE OF RISE ONLY       FPR = BERNOY FIXED TEMPERATURE R = RATE OF RISE ONLY       FPR = BERNOY FIXED TEMPERATURE R = RATE OF RISE ONLY       FPR = BERNOY FIXED TEMPERATURE R = RATE OF RISE ONLY       FPR = BERNOY FIXED TEMPERATURE R = RATE OF RISE ONLY       FPR = BERNOY FIXED TEMPERATURE R = RATE OF RISE ONLY       FPR = BERNOY FIXED TEMPERATURE R = RATE OF RISE ONLY       FPR = BERNOY FIXED TEMPERATURE R = RELAY BASE         MOTOR       OW SURFACE JUNCTION BOX - VALL PANELBOARD       FILUSH JUNCTION BOX - VALL FIXED TEMPERATURE R = RELAY BASE       FIRE SERVICE OF EMERGENCY FIXED TEMPERATURE R = RERAY BASE       FIRE SERVICE OF EMERGENCY FIXED TEMPERAT				RTS AND TEST SWITCH	FACP - FIR	E ALARM CONTROL PANEL		1
EQUIPMENT AND WIRING       Subscree       Fitture       Fitture         Image: Construction box       Image: Construction box       Subscree       Image: Construction box       Fitture       Fitture       Fitture         Image: Construction box       Image: Construction box       Subscree       Subscree       Fitture					FDR - FEE	EDER	SCCR RATING	- 3
MOTOR       U       SUFFACE JUNCTION BOX       FAG       FAG       FAG       FAG       FAG       FAG       FLU		EQUIPMENT AND WIRING		FIRE SERVICE OR EMERGENCY	FIXT - FIX	TURE	SHT	-
Image: Source of the second			AS = AIR SAMPLING		FLA - FUI	L LOAD AMPERES	SIM SPD	-
Image: Construct Service Servic	$\bigcirc$		I = IONIZATION	H PHONE STATION - HANDSET	FLR - FLC	DOR	SPEC SS	
PARELBOARD       Instruction box walls		_	SS = SINGLE STATION		FS - FLC	DW SWITCH	SSBJ STA	-
PARELBOARD FLUSH MOUNTED       Image: Second control for during the second control for the second			ID = IN DUCT	<b>G</b> <sub>FWS</sub> FLOOR WARDEN STATION	CO	NTROL PANEL	STR	-
PANEL BOARD       Image: Constraint of the c		_	-	XXXX CONTROL PANELS/UNITS			SWBD	-
DISTRIBUTION PANELBOARD (NOT TO SCALE)       (B)       RELAY - TYPE AS NOTED       (C)       C)			$\langle \ddot{S} \rangle$ SMOKE DETECTOR/SENSOR FOR DUCT		GEN - GE	NERATOR	TEL	
INTERCENTION       INTERCENTING       INTERCENT       FAX       = FIRE ALARM ANNUNCIATOR       GFP       - GROUND FAULT PROTECTION         INTEGE       MOTOR CONTROL CENTER       INNON-FUSED DISCONNECT SWITCH       INNON-FUSED DISCONNECT SWITCH       FAX       = FIRE ALARM CONTROL CUNIT       GND       - GROUND TERMINAL       GND       - GROUND TERMINAL       GND       - GROUND TERMINAL BOX         IVED       VARIABLE FREQUENCY DRIVE       IF       FUSED DISCONNECT SWITCH       IF       - HAR MARK TERMINAL       GTB       - GROUND TERMINAL BOX         IVED       VARIABLE FREQUENCY DRIVE       IF       FUSED DISCONNECT SWITCH       IF       - GROUND TERMINAL BOX       - GROUND TERMINAL BOX         IVED       VARIABLE FREQUENCY DRIVE       IF       FUSED DISCONNECT SWITCH       IF       - GROUND TERMINAL BOX         IVED       AUTOMATIC TRANSFER       IF       ENCLOSED CIRCUIT BREAKER       IF       - COMMUNICATON       - GOMMUNICATON       HH       - HAND OFF AUTOMATIC         IVER       MAGNETIC MOTOR STARTER       IF       INFRARED       FSCU       FIRE LARM       HV       - HIGH / HATT TRACE         IVER       PANEL DIVISION ARROW       IF       COMBINATION MOTOR STARTER       IVERTREE       - GOMENDATION INV       FCCU       - FIRE LARM       INV       - INTERMEDIATE METAL CONDU				FACP = FIRE ALARM CONTROL	CIR	CUIT INTERRUPTER	TFA TFB	
LMCC       MOTOR CONTROL CENTER       In NON-FUSED DISCONNECT SWITCH       CO       = CARBON MONOXIDE HCL = HYDROCER CHLORIDE CCH4 = METHANE       FATC = FIRE ALARM TERMINAL CONTROL CONTROL CONTROL COMMUNICATIONS       GND - GN			CO2 = CARBON DIOXIDE		GFP - GR	OUND FAULT PROTECTION	TS	-
Verify       VARIABLE FREQUENCY DRIVE       Fin       FUSED DISCONNECT SWITCH       CH4 = METHANE       ECCU = EMEMEINCY COMMUNICATIONS       HH - HANDOLE         ATS       AUTOMATIC TRANSFER SWITCH       Enclosed circuit breaker       XX=TYPE       CM4 = METHANE       ECCU = EMEMEINCY COMMUNICATIONS       HH - HANDOLE         XX-XX       MAGNETIC MOTOR STARTER       Magnetic motor starter       WX=TYPE       VX=TYPE       CONTROL PANEL UV = ULTRAVIOLET       FSCP = FIRE BUPPRESSION CONTROL PANEL UV/R = COMBINATION UV/       HH - HANDOLE         VX-XXX       PANEL DIVISION ARROW       Motor Rated SWITCH       Motor Rated SWITCH       VR = VISIBLE RADIATION       FSCU = FIRE ALARM CONTROL UNIT       INC - INTERMEDIATE METAL CONDUIT         VR = VISIBLE RADIATION       PANEL DIVISION LINE       Motor Rated SWITCH       WATER DETECTOR       SAP = SPRINCL ONIT       INC - INTERMEDIATE METAL CONDUIT         VR = VISIBLE RADIATION       PUSH BUTTON       PUSH BUTTON       PUSH BUTTON - DOUBLE       XX       KX = TYPE         BUSWAY PLUG-IN UNIT       PUSH BUTTON - DOUBLE       XX = TYPE       AIM = ADDRESSABLE INPUT ANNUNCLATOR       AIM = ADDRESSABLE INPUT MONITOR MODULE       AIM = ADDRESSABLE INPUT MONITOR MODULE       FS = NOTIFICATION       KV - KILOWATT HOURS         GEN       REMOTE GENERATOR ANNUNCLATOR       IIII       GROUND CONNECTION       AIM = ADDRESSABLE INPUT ANDINCRATED DUFFIC	MCC MOTOR CONTROL CENTER	NON-FUSED DISCONNECT SWITCH	HCL = HYDROGEN CHLORIDE	FATC = FIRE ALARM TERMINAL			TV TVTC	-
ATS SWITCH       AUTOMATIC TRANSFER SWITCH       Enclosed circuit breaker       XX TYPE       CONTROL UNIT       HDX + HARSE POWER SUPRESSION         XX.XX       MAGNETIC MOTOR STARTER       MAGNETIC MOTOR STARTER       MAGNETIC MOTOR STARTER       UV = ULTRAVIOLET       FSCP = FIRE SUPPRESSION CONTROL PANEL       HT - HEIGHT / HEAT TRACE         XX.XX       PANEL DIVISION ARROW       Image: Combination motor starter       INFRARED UV/IR = COMBINATION UV / VR = VISIBLE RADIATION       FSCP = FIRE ALARM CONTROL PANEL       HT - HEIGHT / HEAT TRACE         PANEL DIVISION ARROW       Image: Combination motor starter       Imfrared VR = VISIBLE RADIATION       FAC = FIRE ALARM COMMUNICATOR       Image: Control unit VR = VISIBLE RADIATION       HT - HEIGHT / HEAT TRACE         PANEL DIVISION ARROW       Image: Combination motor starter       Imfrared VR = VISIBLE RADIATION       FAC = FIRE ALARM COMMUNICATOR       Image: Control unit VR = VISIBLE RADIATION       FAC = FIRE ALARM COMMUNICATOR       Image: Control unit VR = VISIBLE RADIATION       Image: Control unit VR = VISIBLE RADIATION       Image: Control unit VR = VISIBLE RADIATION       Jor JB - JUNCTION BOX         Image: Cable Tap Box       PUSH BUTTON       PUSH BUTTON - DOUBLE       Image: Control unit VR = ADDRESSABLE INPUT ANNUNCIATOR       MODULES       BATT = BATTER CABINET       KV - KILOVOLT-AMPERES         Image: Cable Tap Box       Image: Control unit MONUNCIATOR       Image: Control unit MONUNC ANDUNC AND POWER       AUM	VFD VARIABLE FREQUENCY DRIV	E En FUSED DISCONNECT SWITCH		ECCU = EMERGENCY			TYP	-
XX-XX     PANEL DIVISION ARROW     Image and the combination motor starter     Image and the combination motor     Image and the combinati		B ENCLOSED CIRCUIT BREAKER	XX XX=TYPE	CONTROL UNIT	HP - HO	RSE POWER	UC UG	-
PANEL DIVISION ARROW       Image: Combination motor starter       Image: Comb		MAGNETIC MOTOR STARTER	IR = INFRARED	CONTROL PANEL			UH UNO	-
PANEL DIVISION LINE       MOTOR RATED SWITCH       WATER DETECTOR       COMMUNICATOR       INV       INV <td></td> <td><math>\Box_{\Box}</math> COMBINATION MOTOR STARTER</td> <td>INFRARED</td> <td>CONTROL UNIT</td> <td></td> <td></td> <td>UPS</td> <td>-</td>		$\Box_{\Box}$ COMBINATION MOTOR STARTER	INFRARED	CONTROL UNIT			UPS	-
Image: Construction line       M       Image: Construction line       Jor JB       - JUNCTION BOX         Image: Construction line       PUSH BUTTON       Image: Construction line       V/X       M       V/X       WCU       = WIRELESS CONTROL UNIT         Image: Construction line       PUSH BUTTON - DOUBLE       V/X       M       MODULES       MODULES       CONTROL UNIT       KV       - KILOVOLT-AMPERES         Image: Construction       Image: Construction       V/X       M       MODULES       BATT       = BATTERY CABINET       KV       - KILOWATTS         Image: Construction       Image: Construction       Image: Construction       KW       - KILOWATTS       KWH       - KILOWATTS         Image: Construction       Image: Construction       Image: Construction       KWH       - KILOWATTS       KWH       - KILOWATTS         Image: Construction       Image: Construction       Image: Construction       KWH       - KILOWATTS         Image: Construction       Image: Construction       Image: Construction       KWH       - KILOWATTS         Image: Construction       Image: Construction       Image: Construction       KWH       - KILOWATTS         Image: Construction       Image: Construction       Image: Construction       Construction       KWH       - KILOWATT H		\$MOTOR RATED SWITCH		COMMUNICATOR			V	-
Image: Conduct rate box       Image: Conduct rate box <td></td> <td>M</td> <td></td> <td>WCU = WIRELESS CONTROL UNIT</td> <td></td> <td></td> <td>VFD VP</td> <td>- '</td>		M		WCU = WIRELESS CONTROL UNIT			VFD VP	- '
Image: Busway plug-in unit       Image: Post Bufford Double       Image: Post Bufford Double <td< td=""><td></td><td></td><td></td><td>CONTROL UNIT</td><td>KVA - KIL</td><td>OVOLT-AMPERES</td><td>W</td><td>-</td></td<>				CONTROL UNIT	KVA - KIL	OVOLT-AMPERES	W	-
GEN       REMOTE GENERATOR ANNUNCIATOR       I - GROUND CONNECTION       MONITOR MODULE       NPS       = NOTIFICATION POWER SUPPLY         Image: Control Unit       Image: Control Unit       MONITOR MODULE       NPS       = NOTIFICATION POWER SUPPLY         Image: Control Unit       Image: Control Unit       MONITOR MODULE       NPS       = NOTIFICATION POWER SUPPLY         Image: Control Unit       Image: Control Unit       MONITOR MODULE       NPS       = NOTIFICATION POWER SUPPLY         Image: Control Unit       Image: Control Unit       MONITOR MODULE       NPS       = NOTIFICATION POWER SUPPLY         Image: Control Unit         Image: Control Unit       Image: Control Unit       MONITOR MODULE       NPS       = NOTIFICATION POWER         Image: Control Unit         Image: Control Unit       Image: Control Unit       Image: Control Unit       Image: Control Unit       Image: Control Unit         Image: Control Unit       Image: Control Unit       Image: Control Unit       Image: Control Unit       Image: Control Unit       Image: Control Unit         Image: Control Unit       Image: Control Unit       Image: Control Unit	BUSWAY PLUG-IN UNIT		/# XXX = TYPE	EVAC = VOICE EVACUATION			W/ WP	- 1
$G_{I}$ REMOTE GROUND INDICATOR O AIR TERMINAL $G_{I}$ REMOTE GROUND INDICATOR IO = ISOLATION MODULE IO = ISOLATION MODULE IO = ISOLATION MODULE IO = ISOLATION MODULE		·1	MONITOR MODULE	NPS = NOTIFICATION POWER			WS WT	- '
		G   REMOTE GROUND INDICATOR	CONTROL MODULE	GAP = GRAPHIC ANNUNCIATOR				
GROUND BOD GROUND ROD AIO = ADDRESSABLE INPUT/ ARCM = AREA OF REFUGE MASTER	•	GP ROOM REFERENCE GROUND POINT	AIO = ADDRESSABLE INPUT/				XFMR XP	- ·
S GROUND ROD WITH TEST WELL ARCR = AREA OF REFUGE REMOTE	•	ELL		ARCR = AREA OF REFUGE REMOTE				
# DENOTES NUMBER OF INPUTS/OUTPUTS UNIT				UNIT				
HILL HOMERUN	HHH HOMERUN							
ELECTRICAL EQUIPMENT DESIGNATION CODE			ELECTRICAL EQUIPN	IENT DESIGNATION CODE				

A-1,3,5 INDICATES NUMBER OF CONDUCTORS

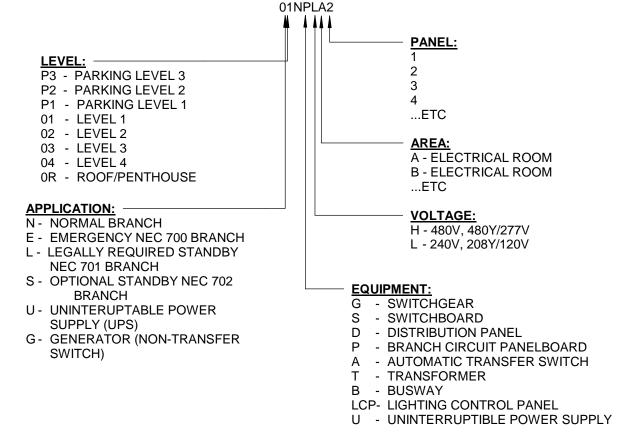
4

------- INDICATES NEUTRAL CONDUCTOR ------ INDICATES GROUND CONDUCTOR

A-1,3,5 = PANEL AND CIRCUITS: PANEL A, CIRCUITS 1,3,5

## ELECTRICAL

## ELECTRICAL EQUIPMENT DESIGNATION CODE



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		F	<image/> ImageImageImagemiwaukeemadisongreen baydenveratanta33 East Chicago StreetMiwaukee, WI 53202StreetMiwaukee, WI 53202Miwaukee, WI 53
	ICAL ABBREVIATIONS		GENERAL CONTRACTORS
LAN LED	<ul> <li>LOCAL AREA NETWORK</li> <li>LIGHT EMITTING DIODE</li> <li>LONG-TIME/INSTANTANEOUS</li> </ul>		Affiliated Engineers <sup>®</sup>
LSI	<ul> <li>LONG-TIME/SHORT-TIME/ INSTANTANEOUS</li> <li>LONG-TIME/SHORT-TIME/ INSTANTANEOUS/GROUND</li> </ul>		
	- LONG-TIME/SHORT-TIME/ INSTANTANEOUS/GROUND	E	
LTG LTS	<ul> <li>LOCAL TEMPERATURE CONTROL PANEL</li> <li>LIGHTING</li> <li>LIGHTS</li> </ul>		PIERCE ENGINEERS, INC.
MATV	<ul> <li>LOW VOLTAGE</li> <li>MASTER ANTENNA TELEVISION</li> <li>MECHANICAL CONTRACTOR</li> </ul>		
MCB MCC MCP	<ul> <li>MAIN CIRCUIT BREAKER</li> <li>MOTOR CONTROL CENTER</li> <li>MOTOR CIRCUIT PROTECTOR</li> <li>MECHANICAL EQUIPMENT ROOM</li> </ul>		
MH MLO MPTB	<ul> <li>MANHOLE</li> <li>MAIN LUGS ONLY</li> <li>MUSIC &amp; PAGE TERMINAL BOX</li> <li>MOUNTED</li> </ul>		PROJECT INFORMATION
MTG MTG HGT MTR	- MOUNTING - MOUNTING HEIGHT - MOTOR / METER		750 UNIVERSITY
NA	<ul> <li>MEDIUM VOLTAGE</li> <li>NOT APPLICABLE</li> <li>NOTIFICATION APPLIANCE</li> </ul>		ROW EXPANSION
NEC NIC	CIRCUIT - NORMALLY CLOSED - NATIONAL ELECTRICAL CODE - NOT IN CONTRACT		
NTS	<ul> <li>NORMALLY OPEN</li> <li>NOT TO SCALE</li> <li>ON CENTER</li> </ul>		
OFCI	<ul> <li>OWNER FURNISHED, CONTRACTOR INSTALLED</li> <li>OWNER FURNISHED, OWNER INSTALLED</li> </ul>		
PA	<ul> <li>POLE</li> <li>PUBLIC ADDRESS</li> <li>PULL BOX / PUSHBUTTON</li> </ul>	D	750 University Row Madison, WI 53703
PC PDU	<ul> <li>PLUMBING CONTRACTOR / PHOTOCELL</li> <li>POWER DISTRIBUTION UNIT</li> <li>POWER FACTOR</li> </ul>		,
PH PLBG PNL	<ul> <li>PHASE</li> <li>PLUMBING</li> <li>PANEL</li> <li>POWER OPERATED DAMPER</li> </ul>		
PS PT	<ul><li>POWER SUPPLY</li><li>POTENTIAL TRANSFORMER</li><li>POWER TYPE ROOF</li></ul>		
REC	VENTILATOR - POWER - RECESSED		ISSUANCE AND REVISIONS
REL REQD	<ul> <li>RECEPTACLE</li> <li>RELOCATE</li> <li>REQUIRED</li> <li>RIGID METAL CONDUIT</li> </ul>		DATE DESCRIPTION 04/28/2023 SCHEMATIC DESIGN
	<ul> <li>REDUCED VOLTAGE AUTO TRANSFORMER</li> <li>SHORT CIRCUIT CURRENT</li> </ul>		05/15/2023 UDC & LAND USE
SIG	- SHEET - SIGNAL - SIMILAR		
SPEC SS	<ul> <li>SURGE PROTECTIVE DEVICE</li> <li>SPECIFICATION</li> <li>SAFETY SWITCH</li> <li>SUPPLY SIDE BONDING JUMPER</li> </ul>		
STA STR SW	<ul> <li>STATION</li> <li>STARTER</li> <li>SWITCH</li> <li>SWITCHBOARD</li> </ul>	С	
SWGR TEL	- SWITCHGEAR - TELEPHONE	•	
TFB TS TV	<ul> <li>TO FLOOR ABOVE</li> <li>TO FLOOR BELOW</li> <li>TAMPER SWITCH / TIME SWITCH</li> <li>TELEVISION</li> </ul>		
TYP UC	<ul> <li>TELEVISION TERMINAL CABINET</li> <li>TYPICAL</li> <li>UNDER COUNTER</li> <li>UNDERCOUNTER</li> </ul>		
UH UNO	<ul> <li>UNDERGROUND</li> <li>UNIT HEATER</li> <li>UNLESS NOTED OTHERWISE</li> <li>UNINTERRUPTED POWER</li> </ul>		
VFD	SUPPLY - VOLTAGE - VARIABLE FREQUENCY DRIVE		KEY PLAN
W W/	- VAPOR PROOF - WIRE - WITH		
WS	- WEATHERPROOF - WALL SURFACE - WATER TIGHT		
	- TRANSFORMER - EXPLOSION PROOF		
		В	
			SHEET INFORMATION
			PROGRESS DOCUMENTS
			NOT FOR CONSTRUCTION These documents reflect progress and intent and may be subject to change, including additional detail. These
			are not final construction documents and shall not be used for final bidding or construction-related purposes.
		Α	PROJECT MANAGER PROJECT NUMBER 422291-02
			ELECTRICAL
			SYMBOLS AND

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ABBREVIATIONS

YPE	MANUFACTURER	CATALOG NUMBER	SOURCE TYPE	BALLAST/DRIVER - TYPE		VOLT.	JNTING NOTES	LOCATION	BUG RATING
			90 CRI	0-10V DIMMING			FOUR INCH ROUND DOWNLIGHT WITH WET LOCATION LISTING. SEMI-SPECULAR REFLECTOR,		
C1	PORTFOLIO	LD4C-25-935-D010-PD-M-1-H+LGSKT4IP66	2500 LUMENS	INTEGRAL DRIVER	33 W	UNV	EILING SELF TRIM FLANGE. INSTALL WITH ENOUGH POWER LEAD TO BE ABLE TO CHANGE DRIVER FROM BELOW THE CEILING.	LOADING DOCK	B1-U0-G0
			NOMINAL 3000K LED	MIN 1%			DRIVER SHALL HAVE QUICK DISCONNECTS FOR EASE OF INSTALLATION AND MAINTENANCE.	CANOPY	
			80 CRI	0-10V DIMMING			MOUNT LED ARM MOUNT AREA LIGHT WITH TYPE III DISTRIBUTION. LUMINAIRE SHALL HAVE LIGHT SPILL REDUCTION OPTICS AND A HOUSE SIDE SHIELD.		
S1A	MCGRAW-EDISON	TLM-E03-LED-E03-SL3-BK-8030-DIM-HSS + 25' TALL BLACK POLE	9100 LUMENS	INTEGRAL DRIVER	75 W	UNV	OT POLE PROVIDE MANUFACTURER RECOMMENDED 25-FOOT TALL POLE.	SITE ROADWAYS	B2-U0-G2
			NOMINAL 3000K LED	MIN 1%					
			80 CRI	0-10V DIMMING			MOUNT LED ARM MOUNT AREA LIGHT WITH TYPE IV DISTRIBUTION. LUMINAIRE SHALL HAVE LIGHT SPILL REDUCTION OPTICS AND A HOUSE SIDE SHIELD.		
S1B	MCGRAW-EDISON	TLM-E03-LED-E06-SL4-BK-8030-DIM-HSS + 25' TALL BLACK POLE	17,500 LUMENS	INTEGRAL DRIVER	149 W	UNV	OT POLE PROVIDE MANUFACTURER RECOMMENDED 25-FOOT TALL POLE.	AMBULANCE PARKING	B3-U0-G3
			NOMINAL 3000K LED	MIN 1%					
			80 CRI	0-10V DIMMING			LED TYPE V BOLLARD WITH SYMMETRIC DISTRIBUTION AND PAINTED LOUVERS.		
S2	HYDREL	3120C-H42-8COB-MVOLT-SYM-LDIM-BL-BL/PL	1800 LUMENS	INTEGRAL DRIVER	84 W	UNV	RETE BASE	SITE PATHWAYS	B1-U2-G1
			NOMINAL 3000K LED	MIN 1%					
			80 CRI	0-10V DIMMING			LED RECESSED LINEAR FOR WET LOCATION.		
S3	ALIGHT	D5-16'0"-LS-30-U-HE-*-B-D-Q	1800 LUMENS	INTEGRAL DRIVER	4.8 W/FT	UNV		MAIN ENTRY CANOPY	B1-U0-G1
			NOMINAL 3000K LED	MIN 1%					
			80 CRI	0-10V DIMMING			LED ARM MOUNT AREA LIGHT WITH TYPE IV DISTRIBUTION. LUMINAIRE SHALL HAVE LIGHT SPILL REDUCTION OPTICS AND A HOUSE SIDE SHIELD.		
W1	MCGRAW-EDISON	TLM-E03-LED-E06-SL4-BK-8030-WM-DIM-HSS	17,500 LUMENS	INTEGRAL DRIVER	149 W	UNV	LL ARM PROVIDE WITH WALL ARM MOUNT INSTALLATION.	AMBULANCE PARKING	B3-U0-G3
			NOMINAL 3000K LED	MIN 1%			UNTED	LOADING DOCK AREA	
			80 CRI	0-10V DIMMING			LED WALL MOUNTED UPLIGHT TO LIGHT MAIN ENTRY CANOPY. FIXTURES ARE LOCATED TO ENSURE GREATER THAN 90% OF UPLIGHT IS BLOCKED BY CANOPY.	ANOPY STRUCTURE.	
W2	ALIGHT	D4-2'0"-LS-30-U-N-R-O-D-Q	1800 LUMENS	INTEGRAL DRIVER	5 W/FT	UNV	MOUNT FIXTURE SHALL BE WET LOCATION LISTED SUITABLE FOR USE UNDER AN EXTERIOR CANOPY.	MAIN ENTRY CANOPY	B0-U5-G0
			NOMINAL 3000K LED	MIN 1%					
			80 CRI	0-10V DIMMING			LED WALL PACK.		
W3	BEGA	33329 + K3	1800 LUMENS	INTEGRAL DRIVER	8W	UNV		VARIES	N/A
			NOMINAL 3000K LED	MIN 1%					





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## **GENERAL NOTES**

 REFER TO SHEET E001 FOR SYMBOLS AND ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
 REFER TO ARCHITECTURAL ELEVATIONS, FLOOR PLANS, AND CIVIL/LANDSCAPE DRAWINGS FOR EXACT DEVICE LOCATIONS AND ORIENTATION. ELECTRICAL DRAWINGS INDICATE DEVICE

QUANTITIES AND RELATIVE LOCATION, BUT EXACT LOCATION AND ELEVATION SHALL BE PER ARCHITECTURAL DRAWINGS. IN THE ABSENCE OF AN ARCHITECTURAL ELEVATION, ELECTRICAL DRAWINGS SHALL TAKE PRECEDENCE. 3. ALL BRANCH CIRCUIT WIRING FOR SITE LIGHTING SHALL BE #8 IN 1" CONDUIT MINIMUM UNLESS

OTHERWISE NOTED. BURIAL DEPTH OF CONDUITS UNDER PAVEMENT SHALL BE 24" BELOW GRADE MINIMUM. BURIAL DEPTH OF CONDUITS IN GRASS AREA SHALL BE 18" BELOW GRADE MINIMUM. COORDINATE ROUTING WITH CIVIL AND LANDSCAPE PLANS. 4. POLE BASES SHALL BE 3-FEET FROM EDGE OF SIDEWALK TO NEAREST EDGE OF POLE BASE

WHERE POSSIBLE.5. LIGHTING SHOWN ON THIS DRAWING IS TO THE BEST UNDERSTANDING OF THE PROJECT TO DATE. EXACT LOCATIONS MAY SHIFT A FEW FEET IN EITHER DIRECTION AS DESIGN

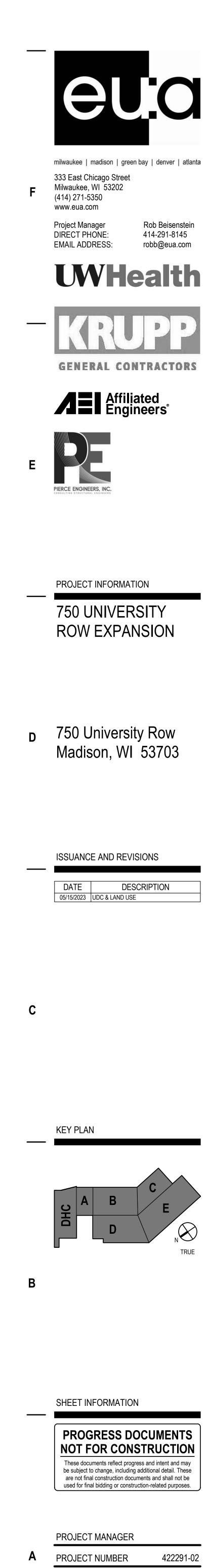
6. ALL SITE LIGHTING SHALL BE CONTROLLED THROUGH BUILDING LIGHTING CONTROL SYSTEM. THE SYSTEM SHALL TURN SITE LIGHTING ON VIA EXTERIOR MOUNTED PHOTOCELL AND SHALL BE CONTROLLED OFF VIA PROGRAMMING AND/OR PHOTOCELL.

## KEY NOTES

PROGRESSES.

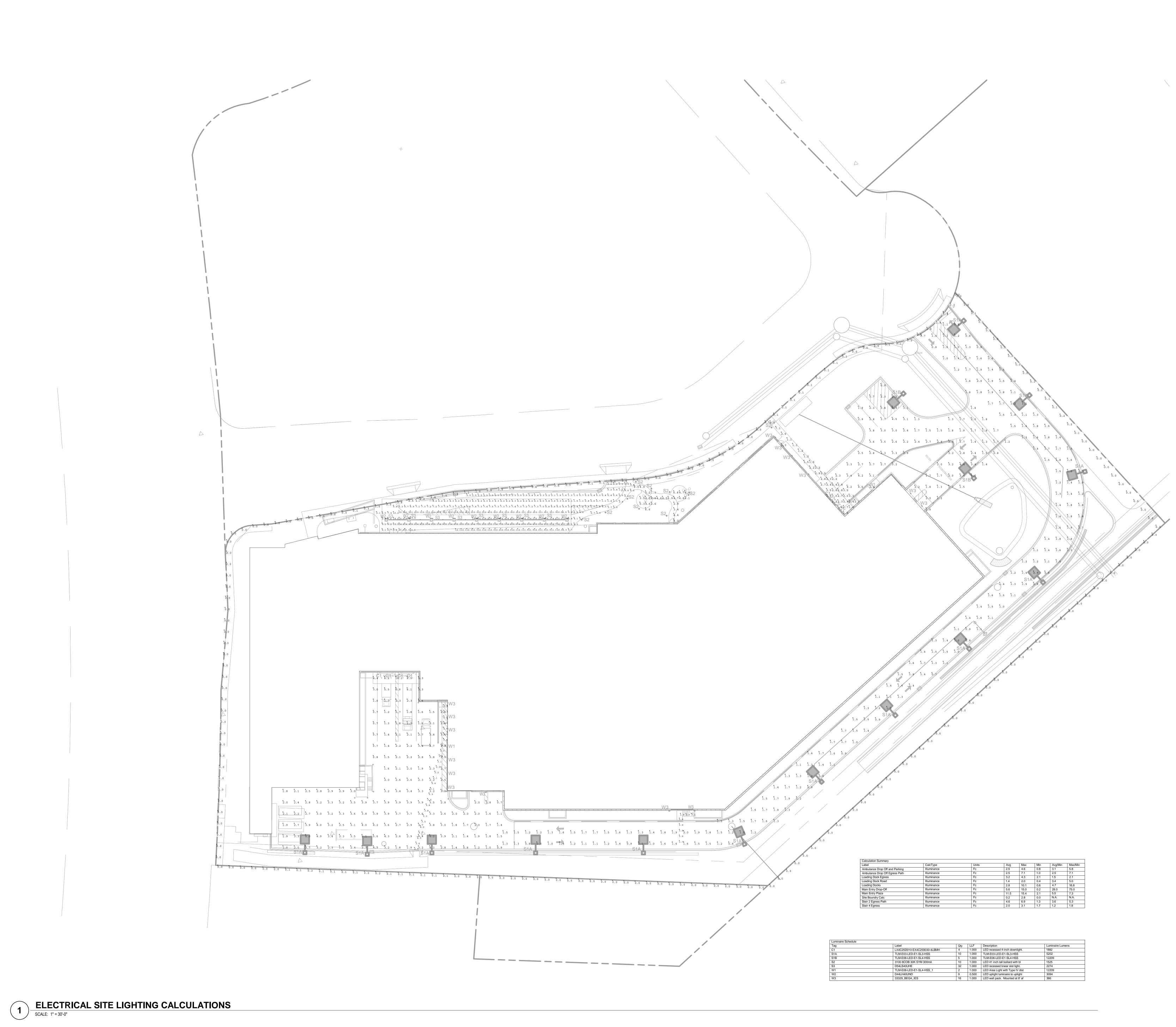
 LIGHTING BEYOND DASHED LINE IS NOT IN SCOPE. EXISTING LIGHTING TO REMAIN IN AREAS BEYOND DASHED LINE.
 LUMINAIRE AT THIS LOCATION SHALL BE TIED TO A LOW-VOLTAGE DIMMER INSIDE AMBULANCE

DROP-OFF VESTIBULE. LIGHTS SHALL BE PROGRAMMED ON TO 50% OF MAXIMUM OUTPUT. DURING AN EVENT REQUIRING EMERGENCY AMBULANCE PICK-UP/DROP-OFF, LOCAL OVER-RIDE SWITCH SHALL BRING LIGHTS ON TO 100% FOR A PERIOD OF 1-HOUR. AFTER 1-HOUR, LIGHTING SHALL REVERT BACK TO PROGRAMMED STATE.



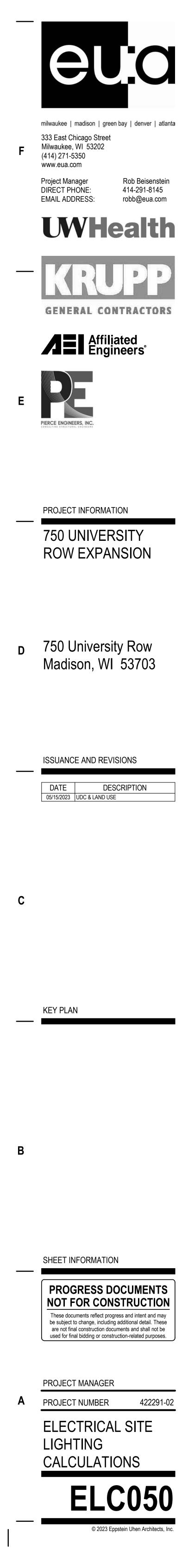
ELECTRICAL SITE LIGHTING PLAN EL050

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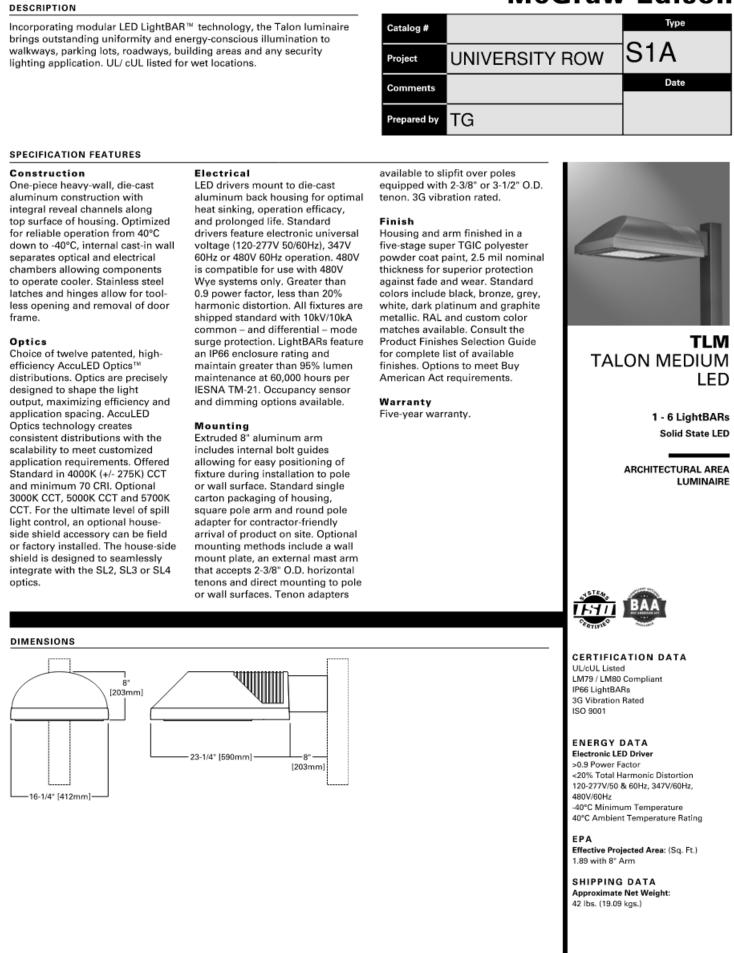


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**McGraw-Edison** 



## COOPER

### TYPE S1A page 2

TLM TALON MEDIUM LED

TD500010EN

February 3, 2023 5:08 PM

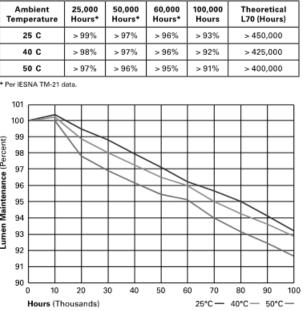
TLM TALON MEDIUM LED

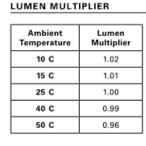
TD500010EN

February 3, 2023 5:08 PM

Number of Li	ghtBARs	E01	E02	E03	E04	E05	E06
Drive Current	1			350mA Dri	ve Current		
Power (Watts	5)	25W	52W	75W	97W	127W	149W
Current @ 12	0V (A)	0.22	0.44	0.63	0.82	1.07	1.26
Current @ 27	7V (A)	0.10	0.20	0.28	0.36	0.48	0.56
Power (Watts	;)	31W	58W	82W	99W	132W	159W
Current @ 34	7V (A)	0.11	0.19	0.28	0.29	0.39	0.48
Current @ 48	0V (A)	0.09	0.15	0.20	0.21	0.30	0.36
-	Lumens	3,064	6,128	9,192	12,255	15,319	18,383
T2	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3
T.0	Lumens	3,084	6,168	9,252	12,336	15,420	18,504
Т3	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens	3,022	6,044	9,066	12,088	15,110	18,132
T4	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
5MQ	Lumens	3,224	6,448	9,672	12,896	16,120	19,344
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
5WQ.	Lumens	3,184	6,368	9,551	12,735	15,919	19,103
5WU	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
520	Lumens	3,181	6,361	9,542	12,722	15,903	19,083
5XQ	BUG Rating	B2-U0-G2	B3-U0-G2	B3-U0-G3	B4-U0-G3	B4-U0-G4	B4-U0-G4
	Lumens	3,055	6,110	9,165	12,220	15,275	18,331
SL2	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	Lumens	3,036	6,072	9,108	12,145	15,181	18,217
SL3	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
<b>CI 4</b>	Lumens	2,954	5,908	8,862	11,816	14,771	17,725
SL4	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
DW/	Lumens	3,124	6,248	9,372	12,496	15,620	18,744
RW	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4
ei i /ei p	Lumens	2,782	5,565	8,347	11,130	13,912	16,695
SLL/SLR	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4

LUMEN MAINTENANCE





100 p°C —			
0°C—	100		
	D°C−−		

### COOPER

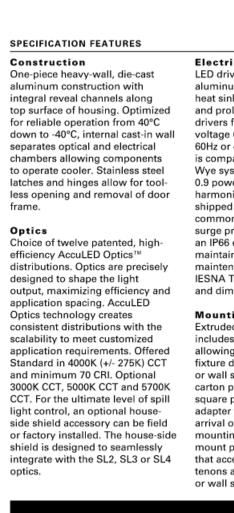
### TYPE S1A page 5

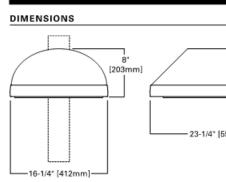
ORDERING INFORMATION Sample Number: TLM-E03-LED-E1-T3-BK Product Family 1.8 Number of LightBARs 4.5 Lamp Typ Voltage Distributio 
 TLM=Talon Medium
 E01=(1) 21 LED LightBAR
 LED=Solid State Light
 E1=Electronic (120-277V)

 BAA-TLM= Talon
 E02=(2) 21 LED LightBARs
 E03=(3) 21 LED LightBARs
 E04=(4) 21 LED LightBARs
 347=347V

 American Act
 E04=(4) 21 LED LightBARs
 E04=(5) 11 LED LightBARs
 480=480V 4
 T2=Type II T3=Type III T4=Type IV AP=Grey BZ=Bronze BK=Black DP=Dark Plat E05=(5) 21 LED LightBARs GM=Graphite Metallic E05=(5) 21 LED LightBARs E06=(6) 21 LED LightBARs F01=(1) 7 LED LightBAR F02=(2) 7 LED LightBARs F03=(3) 7 LED LightBARs F04=(4) 7 LED LightBARs F05=(5) 7 LED LightBARs F06=(6) 7 LED LightBARs SL4=Type IV w/Spill Control WH=White 5MQ=Type V Square Medium 5WQ=Type V Square Wide SXQ=Type V Square Extra Wide RW=Rectangular Wide SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Biotr Options (Add as Suffix) Accessories (Order Separately) 18, 2 P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) R=NEMA Twistlock Photocontrol Receptacle PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle \* MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX=2® 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1012-XX=3® 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1013-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1015-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1015-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1016-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1016-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon PT=Electrical Power Tray 2L=Two Circuits<sup>3</sup> 7030=70 CRI / 3000K CCT \* 7050=70 CRI / 5000K CCT \* 7060=70 CRI / 5700K CCT 10 8030=80 CRI / 3000K CCT 10 LCF=LightBAR Cover Plate Matches Housing Finish WM=Wall Mount with Arm MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX=2@180" Tenon Adapter for 2-3/8" O.D. Tenon MA1019-XX=3@120° Tenon Adapter for 2-3/8° O.D. Tenon MA1045-XX=4@90° Tenon Adapter for 2-3/8° O.D. Tenon WM=Wall Mount with Arm DM=Direct Mount for Round or Square Pole DW=Direct Wall Mount ICP=Integral Cold Weather Battery Pack (Specify 120V or 277V) 7.11 MS-LXX=Motion Sensor for On/Off Operation 12 MS/X-LXX=Motion Sensor for Bi-Level Operation 13 MS/DIM-LXX=Motion Sensor for Dimming Operation 14.15 DIM=6.10V Dimensor Diverse 15 MA1049-XX=3090° Tenon Adapter for 2-3/8° O.D. Tenon MA1049-XX=300° Tenon Adapter for 2-3/8° O.D. Tenon MA1049-XX=300° Tenon Adapter for 2-3/8° O.D. Tenon FSIR-100–Wireless Configuration Tool for Occupancy Sensor <sup>18</sup> OA/RA1016=NEMA Twistlock Photocontrol - Multi-Tap OA/RA1027=NEMA Twistlock Photocontrol - 480V OA/RA1201=NEMA Twistlock Photocontrol - 347V OA/RA1201=NEMA Twistlock Photocontrol - 347V DIM=0-10V Dimming Drivers<sup>16</sup> HSS=Factory Installed House Side Shield<sup>17</sup> ZW=WaveLinx-enabled Module and 4-PIN Receptacle<sup>22,23</sup> SWPD4XX=WaveLinx Sensor Only, 7'-15'<sup>24,23</sup> SWPD4XX=WaveLinx Sensor Only, 7'-15'<sup>24,23</sup> OA/RA1013=Photocontrol Shorting Cap MA1253=10kV Circuit Module Replacement LB/HSS-21=Field Installed House Side Shield for "E" LightBARS <sup>24</sup> LB/HSS-07=Field Installed House Side Shield for "F" LightBARS <sup>28</sup> WOLC-7P-10A=WaveLinx Outdoor Control Module (7-pin) <sup>21</sup> SWPD5XX=WaveLinx Sensor Only, 15'-40' 24.25 NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
3. 8" arm and round pole adapter included with fixture.
4. Standard 4000K CCT and minimum 70 CRI.
5. 21 LED LightBAR powered at 350mA, 7 LED LightBAR powered at 1A.
6. Only for use with 400V Way systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
7. Custom and RAL color matching available upon request. Consult your lighting representative at Cooper Lighting Solutions for more information.
8. Must order dimming driver. Must order dimming driver.
 Low-Level output varies by bar count specified. Consult Factory.
 Extended lead times apply. See website for IES files.
 Available with E01-E04 or F01-F04 configurations only. Rated for 25°C ambient.
 Available with E01-E04 or F01-F04 configurations only. Rated for 25°C ambient.
 Sensor housed in external box mounted to the luminaire. Available in E02-E6 and F02-F6 configurations. Replace XX with mounting height in feet for proper lens selection, (e.g., MS-L25). Consult factory for additional information.
 Sensor housed in external box mounted to the luminaire. Available in E02-E6 and F02-F6 configurations. Replace XX with number of bars operating in low output mode and replace XX with mounting height for proper lens Sensor housed in external box mounted to the luminaire. Available in E02-E6 and P02-F6 configurations. Rep selection, (e.g., MS7-125). Maximum 4 bars in low output mode. Consult factory for additional information.
 Only available in E02-E06 and F02-F06. Includes Dimming Drivers. Not available in 347V or 480V.
 Replace XX with mounting height in feet for proper lens selection, (e.g., MS/DIM-L25).
 Available in E02-E06 ond F02-F06 only.
 Available in E02-E06 ond F02-F06 only.
 Only for use with SL2, SL3 and SL4 distributions. Not available with L90 or R90 options. dy for use with SL2, SL3 and SL4 distributions. Not available with LB0 or R80 options.
aplace XX with color suffix.
Only compatible with MSOIM-LXX motion sensor.
One required for each LightBAR. Not available with LB0 or R80 options.
PER7 is required for use with WOLC-7P 10A. The WOLC-7 cannot be used in conjunction with additional sensors or controls.
Cannot be used in conjunction with photocontrol or other controls systems (P. R. MS, LWR).
WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
Replace XX with sensor color (WH, BZ or BK.)
Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately mails be separately analyzed under domestic preference requirements. Consult factory for further information.
Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. TYPE S1B

### DESCRIPTION Incorporating modular LED LightBAR™ techno brings outstanding uniformity and energy-con walkways, parking lots, roadways, building are lighting application. UL/ cUL listed for wet loca





### COOPER

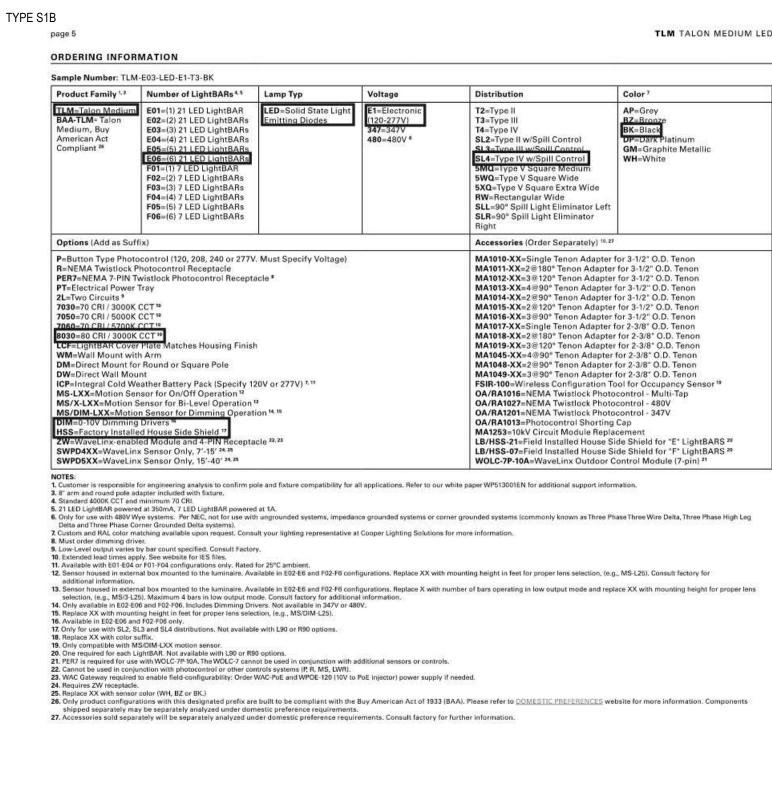
B1-U0-G2

### TYPE S1B page 2

Number of	lightBARs	E01	E02
Drive Curre	nt		1
Power (Watts)		25W	52W
Current @ 1	20V (A)	0.22	0.44
Current @ 2	77V (A)	0.10	0.20
Power (Wat	ts)	31W	58W
Current @ 3	47V (A)	0.11	0.19
Current @ 4	80V (A)	0.09	0.15
-	Lumens	3,064	6,128
T2	BUG Rating	B1-U0-G1	B2-U0-G
<b>T</b> 0	Lumens	3,084	6,168
Т3	BUG Rating	B1-U0-G1	B2-U0-G
	Lumens	3,022	6,044
Τ4	BUG Rating	B1-U0-G1	B1-U0-G
5MQ	Lumens	3,224	6,448
	BUG Rating	B2-U0-G1	B3-U0-G
EWO.	Lumens	3,184	6,368
5WQ	BUG Rating	B2-U0-G1	B3-U0-G
520	Lumens	3,181	6,361
5XQ	BUG Rating	B2-U0-G2	B3-U0-G
61.2	Lumens	3,055	6,110
SL2	BUG Rating	B1-U0-G1	B1-U0-G
SL3	Lumens	3,036	6,072
9L3	BUG Rating	B1-U0-G1	B1-U0-G
SL4	Lumens	2,954	5,908
3L4	BUG Rating	B1-U0-G1	B1-U0-G
PW/	Lumens	3,124	6,248
RW	BUG Rating	B2-U0-G2	B3-U0-G
ell /el p	Lumens	2,782	5,565
SLL/SLR	BUG Rating	B1-U0-G1	B1-U0-G

Ambient Temperature	25,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours	Theoretical L70 (Hours)
25 C	> 99%	> 97%	> 96%	> 93%	> 450,000
40 C	> 98%	> 97%	> 96%	> 92%	> 425,000
50 C	> 97%	> 96%	> 95%	> 91%	> 400,000
100 99 98 97 96 96 95 94 93 92 91 90 0 10	20	30 40	50 6	0 70	80 90

### COOPER



2

		McC	Graw	/-Edison
nology, the Talon luminaire	Catalog #			Туре
onscious illumination to areas and any security ocations.	Project	UNIVERSITY	ROW	S1B
	Comments			Date
	Prepared by	TG		
Atrical drivers mount to die-cast inum back housing for optimal sinking, operation efficacy, porolonged life. Standard rrs feature electronic universal ge (120-277V 50/60Hz), 347V or 480V 60Hz operation. 480V mpatible for use with 480V systems only. Greater than ower factor, less than 20% nonic distortion. All fixtures are bed standard with 10kV/10kA mon – and differential – mode e protection. LightBARs feature 666 enclosure rating and tain greater than 95% lumen tenance at 60,000 hours per A TM-21. Occupancy sensor dimming options available. <b>Inting</b> uded 8" aluminum arm des internal bolt guides ving for easy positioning of re during installation to pole all surface. Standard single in packaging of housing, re pole arm and round pole ter for contractor-friendly al of product on site. Optional nting methods include a wall int plate, an external mast arm accepts 2-3/8" O.D. horizontal ns and direct mounting to pole all surfaces. Tenon adapters	equipped with tenon. 3G vibi Finish Housing and a five-stage sup powder coat p thickness for s against fade a colors include white, dark pli- metallic. RAL matches avail Product Finish for complete I finishes. Optic	arm finished in a ber TGIC polyester baint, 2.5 mil nominal superior protection and wear. Standard b black, bronze, grey, atinum and graphite and custom color able. Consult the nes Selection Guide list of available ons to meet Buy requirements.	TAI	I - 6 LightBARs Solid State LED ARCHITECTURAL AREA LUMINAIRE
[590mm][203mm]			UL/cUL Liste LM79 / LM80 IP66 LightB/ 3G Vibration ISO 9001 ENERGY Electronic LI >0.9 Power I <20% Total I 120-277V/50 480V/60Hz -40°C Minim 40°C Ambien EPA Effective Pro 1.89 with 8*	D Compliant ARs a Rated DATA ED Driver Factor Harmonic Distortion & 60Hz, 347V/60Hz, num Temperature nt Temperature Rating Djected Area: (Sq. Ft.) Arm G DATA e Net Weight:

E03 E04 E05 E06

97W 127W

1.07

0.48

0.39

0.30

15,319

B3-U0-G3

15,420

B3-U0-G3

15,110

16,120

B4-U0-G2

15,919

B4-U0-G2

15,903

B4-U0-G4

15,275

15,181

B3-U0-G3

B2-U0-G3 14,771

B2-U0-G3

15,620

B4-U0-G4

B2-U0-G3

132W

0.82

0.36

99W

0.29

12,255

B3-U0-G3

12,336

B3-U0-G3

12,088

B2-U0-G2

12,896

B4-U0-G2

12,735

B4-U0-G2

12,722

B4-U0-G3

12,220

B2-U0-G2

12,145

B2-U0-G2

11,816

B2-U0-G2

12,496

B4-U0-G4

 B1-U0-G3
 B2-U0-G3
 B2-U0-G3

11,130 13,912

350mA Drive Current

75W

0.63

0.28

82W

0.28

9,192

B2-U0-G2

9,252

B3-U0-G3

9,066

B3-U0-G2

9,551

B4-U0-G2

9,542

B3-U0-G3

9,165

B2-U0-G2

B2-U0-G2

B2-U0-G2

9,108

8,862

9,372

B3-U0-G3

8,347

LUMEN MULTIPLIER

10 C

Ambient Lumen Temperature Multiplier

 15 C
 1.01

 25 C
 1.00

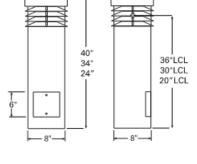
 40 C
 0.99

50 C 0.96

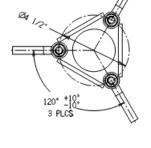
B2-U0-G2

Specifications			
	. 9"		
Diameter:	229 mm		
Diameter: Diameter <sup>2</sup> : Height:	229 mm 8" 204 mm 42"	[	
Diameter <sup>2</sup> :	229 mm 8" 204 mm		

TYPE S2



# MOUNTING



TYPE S2

3120C LED Impact Resistant Round Bollard Flat Top \_\_\_\_\_

## HIGHLIGHTS

 A confident solution for safety and performance in a proven vandal resistant bollard Motion Sensing Bi-Level switching using electromagnetic occupancy

CATALOG NUMBER

NOTES

TYPE S2

- sensor → 20ft range USB receptacle or GFCI receptacle options
- 0-10V Dimming, ELV dimming Emergency operation up to 90 minutes

## 1810 lumens

### LUMEN PACKAGES \_\_\_\_\_

	SYM
Delivered Lumens	1810
Watts	84
LPW	22

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### HYDREL ORDERING INFORMATION 3120C 4COB<sup>1</sup> 360" GFCI Receptacle; 120 volt only, cannot be used with USB FT<sup>3</sup> Forward ELN<sup>5,2</sup> Emergency Operation (1387.5 lumen output; 90 minutes) 8COB LDIM 0-10V Dimming (Dims to 10%) H42 4000°K Color Temp 277<sup>2</sup> : 50K 5000°K Color Temp : 347 AMBLW imited wavelength 120 volt only STG Steel Gray BL Black BZ Bronze TVG Terra Verde Green DDB Dark Bronze WH White DNA Natural Aluminum CF Custom GN Green Z<sup>6</sup> Zinc Undercoat GR Gray RALTBD RAL Paint Finishes SND Sand Note: RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the RALBROCHURE for available options. It is recommended that Hydrel products only use textured paint. ELECTRICAL LOAD Ambient Light Engines Drive Current System Watts 8 COB 250mA 72.35 0.603 0.346 0.301 0.201 0.207 0.131 300mA 83.95 0.700 0.404 0.350 0.303 0.242 0.175 PROJECTED LED LUMEN MAINTENANCE Data references the extrapolated performance projections for the Fixture platform in a 25°C ambient, based on 13,000 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 0 25,000 50,000 100,000 Operating Hours 1.00 0.91 0.85 0.75 Notes: 1 4COB for use with 20K and AMBLW only, 20K and AMBLW require 4COB. 2 Required with ELN or BL5. 3 FT not available with BL5. 4 BLS is not available with ELN, LDIM or IDIM. 5 ELN and BLS require 120 or 277 voltage, not MVOLT or 347. 6 Drive current will be 250. 7 ELN not available on 24" height. 8 Add zinc undercoat for harsh environments. 9 Louvers will be black unless otherwise specified (top only).

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### TYPE S2 11

PERFORMANCE DA	ТА				
socandela plots for 3100 COB. To	see complete photometric reports or	download .ies files for this produ	ct, visit www.hydral.com/		
SY LUMEN OUTPUT	Parada to security to the EMALAN S	FIT AND A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION O			
		1000101222722872288708870870928988			
umen values are from photometric tes nay differ as a result of end-user enviro	nmant and application. Contact Facto	ory for performance data on any o	configuration not shown here.	-	e tole
umen values are from photometric tes	ts performed in accordance with IESN nmant and application. Contact Fact Distribution	IA LM-79-08. Data is considered i ory for performance data on any o Drive Current	to be representative of the conf configuration not shown here. System Watt	igurations shown, within th	e tole
umen values are from photometric tes nay differ as a result of end-user enviro	nmant and application. Contact Facto	ory for performance data on any o Drive Current 250*	configuration not shown here. System Watt 72	Lumens 1300	e tole
umen values are from photometric tes nay differ as a result of end-user enviro Light Engines	nmant and application. Contact Facto	Drive Current 250* 300	configuration not shown here. System Watt 72 84	Lumens 1300 1525	e tole
umen values are from photometric tes nay differ as a result of end-user enviro Light Engines	nmant and application. Contact Facto	ory for performance data on any o Drive Current 250*	configuration not shown here. System Watt 72	Lumens 1300	e tole

### 250\* 300 5000K SYM 84 SYM 1050 72 900 13 1 2 1 2000K \*Used with IDIM and BLS options. LED LIFE: L80/64,000 hours OPERATING TEMPERATURE: -20°C Through 50°C

APPROXIMATE MOTION SENSOR COVERAGE AREA:

SPECIFICATIONS AND FEATURES

FASTENERS: Stainless Steel.

IATERIAL: Copper-free aluminum, A360.
ED ARRAY: 72W and 84W (total system input wattage) Lumen maintenance of individual ght sources have been independently tested to IESNA LM-80 standards. All within MacAdam ellipses.
OLTAGE: MVOLT 50/60Hz, 120, 277 or 347
ISTRIBUTION: SYM - Symmetric, FT - Forward Throw
ENS: Frosted borosilicate glass.
OWER SUPPLY: Integrally mounted LED driver run at 300mA, -20°C through 50°C standard.
INISH: Super durable polyester TGIC powder coat finish (standard). Optional zinc undercoat for arsh environments.

4



UL-1598 and UL-8750.

Consult factory for details.



February 3, 2023 5:08 PM

TLM TALON MEDIUM LED

149W

0.56

159W

0.48

18,383

B3-U0-G3

18,504

B3-U0-G3

18,132

B3-U0-G3

19,344

B4-U0-G2

19,103

B5-U0-G3

19,083

B4-U0-G4

18,331

B3-U0-G3

18,217

B3-U0-G3 

B3-U0-G3

18,744

B4-U0-G4

16,695

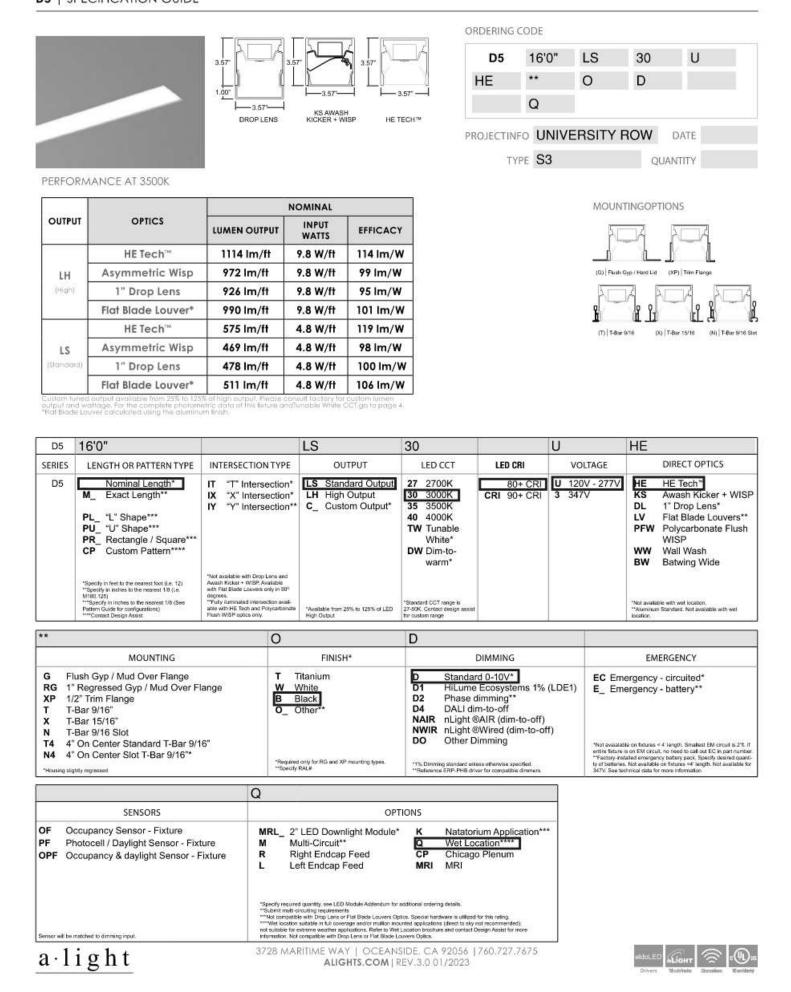
B2-U0-G4

1.26

TLM TALON MEDIUM LED

TD500010EN February 3, 2023 5:08 PM

### TYPE S3 **D5** | SPECIFICATION GUIDE



### 3120C COB | Rev. 11/16/22 Page 1 of 3

3120C LED | 2

TYPE S3

D5 | PHOTOMETRY

LIGHT LOSS FACTORS (LLF)

OUTPUT CCT

OUTPUT CCT

4000k 100%

500k

TUNNABLE WHITE | LIGHT LOSS FACTORS (LLF)

5000k 100%

CRI 80+

935 lm/ft

478 lm/ft

469 lm/ft

451 lm/ft

CRI 80+

HE Tech<sup>TM</sup> Asymmetric WISP Drop Lens

687 lm/ft

361 lm/ft

2700k 92.2% 378 lm/ft 338 lm/ft 386 lm/ft 412 lm/ft

OPTICS

575 lm/ft

860 lm/ft

For standard output (LS) -50%. Values are applicable for Tunable White and Dim-to-warm only

2700k 90.6% 531 lm/ft

OPTICS

HE Tech™ Asymmetric Urop Lens Flat Blade %

926 lm/ft

891 Im/ft

488 lm/ft

460 lm/ft

434 im/ft 442 im/ft 473 im/ft

783 lm/ft

733 lm/ft

412 lm/ft

1135 lm/ft 991 lm/ft 946 lm/ft 1011 lm/ft 88.3% 1002 lm/ft 877 lm/ft

990 lm/ft

952 lm/ft

492 lm/ft

Flat Blade Louver

837 lm/ft

783 lm/ft

440 lm/ft

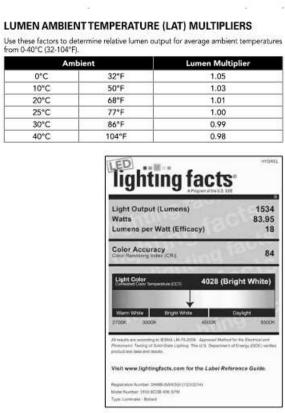
IP65

BAA

EXAMPLE: 3120C H36 8COB 50K MVOLT SYM BL BLS<sup>5,6</sup> Bi-Level Switching (Motion Activated) In-line Trailing Edge ELV Dimming (Dims to 40%);

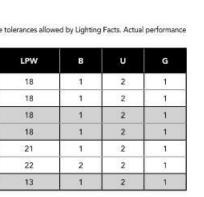
USB charging port, 120 volt only, cannot be used with GFCI

Optional Louvers Painted<sup>®</sup> \_/PL Louvers painted to match fo (top only)



3120C COB | Rev. 11/16/22 Page 2 of 3

3120C LED | 3



1535

LISTING: cCSAus, suitable for wet locations, laboratory tests conducted by CSA to UL Standard BUY AMERICAN ACT: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/resources/buy-american for additional information. WARRANTY: 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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

3120C COB | Rev. 11/16/22 Page 3 of 3

5

a·light

TYPE S3 D5 | TECHNICAL DATA

> MOUNTING Common recessed mounting options available. Contact factory for Limited defect-free manufactured equipment warranty provided under applications regarding modified recessed mounting conditions. Flush Gypsum Flange: Raw aluminum flange is attached to blocking (by Please refer to full terms and conditions on our website. others), then mudded over and/or painted by installing contractor to provide a "flangeless" fixture appearance in recessed ceiling/wall applications.

Trim Flange: 1/2" wide visible powder coated flange, specify finish or ceiling tie wires (provided). Use of a-clamp™ secures fixture trim and housing around ceiling/wall material. Use for any gypsum or hard ceiling/ wall that requires a minimal flange covering the ceiling cut-out edge. T-Bar/Grid Ceiling. 9/16" or 15/16" standard T-Bar or 9/16" slot ceiling. Raw aluminum flange sits on T-Bar and is concealed from view. 4" Armstrong Techzone™ / USG Logix™ or other 4" Utility Systems. Suitable for use in 4" on-center standard or slot T-Bar systems.

STRUCTURE Robust, high quality 60% recycled aluminum extruded housing. 0.040" thick aluminum internal gear trays. Flat or flanged aluminum end caps. Aluminum joiner brackets. 2 lbs/ft approximate fixture weight.

FINISH Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

LISTING IC Rated for IC, Airtight, CCEA Ceilings. CCEA mark applied for Chicago Plenum applications. UL/CUL rated for Damp Locations. Tested in accordance with UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/ NFPA 70, and NOM-001-SEDE. UL Wet location label available. Complies with UL definition of wet locations

to prevent accumulation of water on live parts, electrical components, or conductor not identified for use in contact with water through the provision of weep holes. Waterproof connector to be provided by others. Installing contractor responsible for properly sealing and waterproofing all field drilled mounting and power feed locations.

WARRANTY

normal use and proper storage for a period of one (1) year. LED products (LED boards and drivers) will be covered for a period of five (5) years.

PHOTOMETRY ALIGHTS.COM 3

CRI 90+

387 lm/ft

366 lm/ft

473 lm/ft

76.5% 448 lm/ft

OPTICS

835 lm/ft

893 lm/f

863 lm/

816 lm/f

773 lm/f

431 lm/f

417 lm/f

421 lm/ft 394 lm/f

399 lm/ft 373 lm/ft

HE Tech<sup>TM</sup> Asymmetric Drop Lens Flat Blade Louver

LED MODULES Heavy-duty, milled aluminum plate module contains recessed cutouts requirement. Fixture is mounted to structure using threaded rod (by others) for flush mounting of LED module (supplied). Specification and layout of modules and lamping per LED MODULE ADDENDUM.

a·light

F	milwaukee   madison   green bay   denver   atlanta         333 East Chicago Street         Milwaukee, WI 53202         (414) 271-5350         www.eua.com         Project Manager         DIRECT PHONE:         EMAIL ADDRESS:
	UWHealth Interview of the second seco
E	<section-header></section-header>
	PROJECT INFORMATION 750 UNIVERSITY ROW EXPANSION
D	750 University Row Madison, WI 53703
	ISSUANCE AND REVISIONS
С	
	KEY PLAN
В	
	SHEET INFORMATION  PROGRESS DOCUMENTS NOT FOR CONSTRUCTION
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MaCrow Edia

TYPE W2

D4 | SPECIFICATION GUIDE

PERFORMANCE AT 4000K

output and wattage.

D4 2'0"

OUTPUT DISTRIBUTION

V. High Symmetric Wide

Symmetric Wide

Symmetric Narrow

Asymmetric

Symmetric Wide

Symmetric Narrow

SERIES LENGTH OF PATTERN TYPE

PL\_ "L\* Shape\*\*\* PU\_ "U" Shape\*\*\* PR\_ Rectangle / Square\*\*\* CP Custom Pattern\*\*\*\*

INDIRECT DISTRIBUTION INDIRECT OPTICS

SENSORS

OF Occupancy Sensor - Fixture

G Symmetric Narrow N Asymmetric

'Not recommended for wall mount

Sensor will be matched to dimming inpl

a·light

"Specify in faiet to the resistent foot (i.e. 12) "Specify in inches to then nearest 1/8 (i.e. M180, 125) ""Specify in inches to the nearest 1/8 (See Pattern Guide)

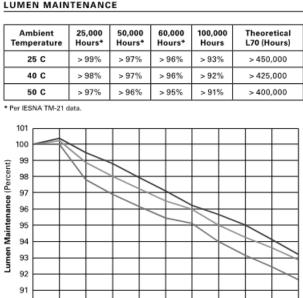
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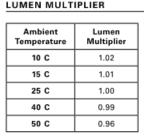
Dust Cover

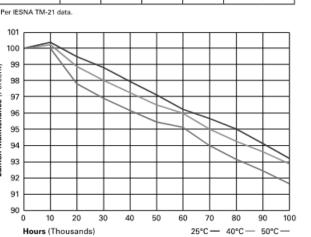
D4 Nominal Length\* M\_ Exact Length\*\*

e Talon luminaire Ilumination to any security Project Comments Prepared b available to		V 1 Date
Prepared b		Date
	y TG	
available to		
available to		
<ul> <li>chousing for optimal peration efficacy, life. Standard electronic universal 77V 50/60Hz), 347V</li> <li>OHz operation. 480V</li> <li>or use with 480V</li> <li>or use with 480V</li> <li>or, less than 20%</li> <li>or use with 480V</li> <li>differential – mode</li> <li>on. LightBARs feature</li> <li>or complet for complet finishes. Op American A</li> <li>Occupancy sensor</li> <li>options available.</li> <li>Warranty Five-year w</li> <li>uminum arm</li> <li>al bolt guides</li> <li>sy positioning of</li> <li>nstallation to pole</li> <li>Standard single</li> <li>ng of housing,</li> <li>m and round pole</li> <li>tractor-friendly</li> <li>uct on site. Optional</li> <li>nexternal mast arm</li> <li>3/8" O.D. horizontal</li> </ul>	uper TGIC polyester at paint, 2.5 mil nominal or superior protection e and wear. Standard de black, bronze, grey, platinum and graphite AL and custom color ailable. Consult the ishes Selection Guide the list of available otions to meet Buy the requirements.	FLN ALON MEDIUN 1 - 6 LightBAR Solid State Li ARCHITECTURAL ARR
s. Tenon adapters		<b>BAA</b>
	UL/cUL LM79 / IP66 Lig	LM80 Compliant ghtBARs ration Rated
8" [203mm]	Electroi >0.9 Po <20% T 120-277 480V/66 -40°C M	RGY DATA nic LED Driver over Factor Fotal Harmonic Distortion 7V/50 & 60Hz, 347V/60Hz, 0Hz Minimum Temperature mibient Temperature Rating
		ve Projected Area: (Sq. Ft.) ith 8* Arm
	Approx	PING DATA kimate Net Weight: (19.09 kgs.)
	Finish Housing and five-stage si powder coa thickness for against fade colors inclu white, dark metallic. RA matches av Product Fin for complet finishes. Op American A Warranty Five-year w Warranty Five-year w Warranty Five-year w	Iffe. Standard electronic universal (NTV 50/6042), 347V (004c operation, 480V for use with 480V only. Greater than or, less than 20% ard with 10kV/10kA I differential – mode on. LightBARs feature ure rating and er than 95% lument t 60,000 hours per Occupancy sensor options available.       Finish Housing and arm finished in a five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the Product Finishes Selection Guide for complete list of available finishes. Options to meet Buy American Act requirements.         Warranty Five-year warranty.         Warranty Five-year warranty.         Warranty Five-year marranty.         Warranty Five-year grown         Warranty Five-year grown         Warranty Five-year grown         Warranty Five-year grown         Warranty Five-year grown         Warranty Five-year grown         Warranty Five-year grown         Warranty Five-year grown         Warranty Five-year grown

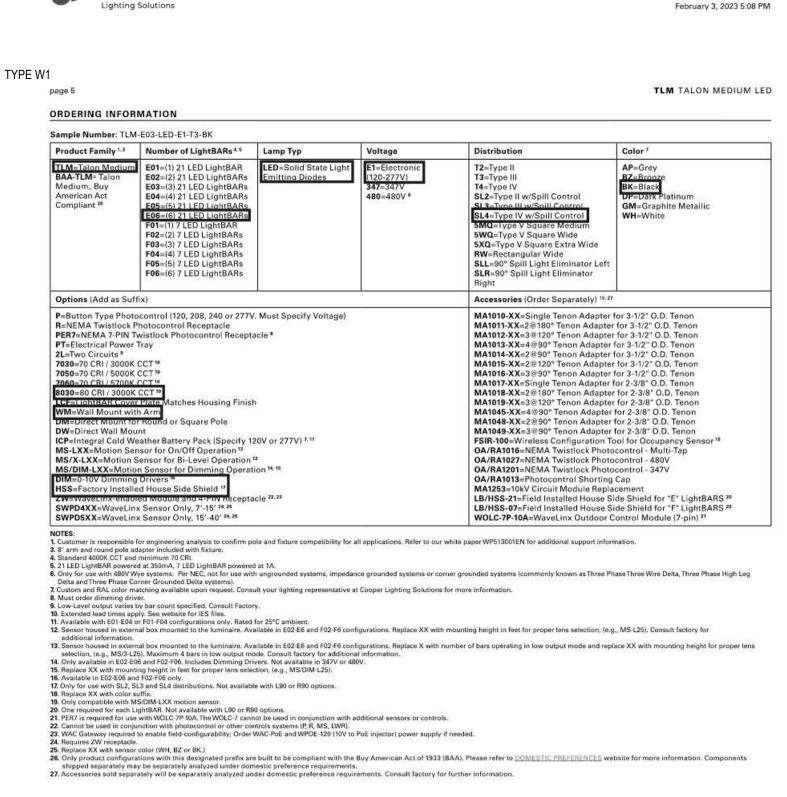
Number of Li	ghtBARs	E01	E02	E03	E04	E05	E06
Drive Current	e Current 350mA Drive Current						
Power (Watts	5)	25W	52W	75W	97W	127W	149W
Current @ 12	<b>0V</b> (A)	0.22	0.44	0.63	0.82	1.07	1.26
Current @ 27	7V (A)	0.10	0.20	0.28	0.36	0.48	0.56
Power (Watts	;)	31W	58W	82W	99W	132W	159W
Current @ 34	7V (A)	0.11	0.19	0.28	0.29	0.39	0.48
Current @ 48	0V (A)	0.09	0.15	0.20	0.21	0.30	0.36
T2	Lumens	3,064	6,128	9,192	12,255	15,319	18,383
12	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3
T2	Lumens	3,084	6,168	9,252	12,336	15,420	18,504
Т3	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens	3,022	6,044	9,066	12,088	15,110	18,132
T4	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
5MQ	Lumens	3,224	6,448	9,672	12,896	16,120	19,344
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
514/0	Lumens	3,184	6,368	9,551	12,735	15,919	19,103
5WQ.	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
	Lumens	3,181	6,361	9,542	12,722	15,903	19,083
5XQ	BUG Rating	B2-U0-G2	B3-U0-G2	B3-U0-G3	B4-U0-G3	B4-U0-G4	B4-U0-G4
SL2	Lumens	3,055	6,110	9,165	12,220	15,275	18,331
SLZ	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	Lumens	3,036	6,072	9,108	12,145	15,181	18,217
SL3	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
SL4	Lumens	2,954	5,908	8,862	11,816	14,771	17,725
514	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
RW	Lumens	3,124	6,248	9,372	12,496	15,620	18,744
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4
SLL/SLR	Lumens	2,782	5,565	8,347	11,130	13,912	16,695
SLL/SLK	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4







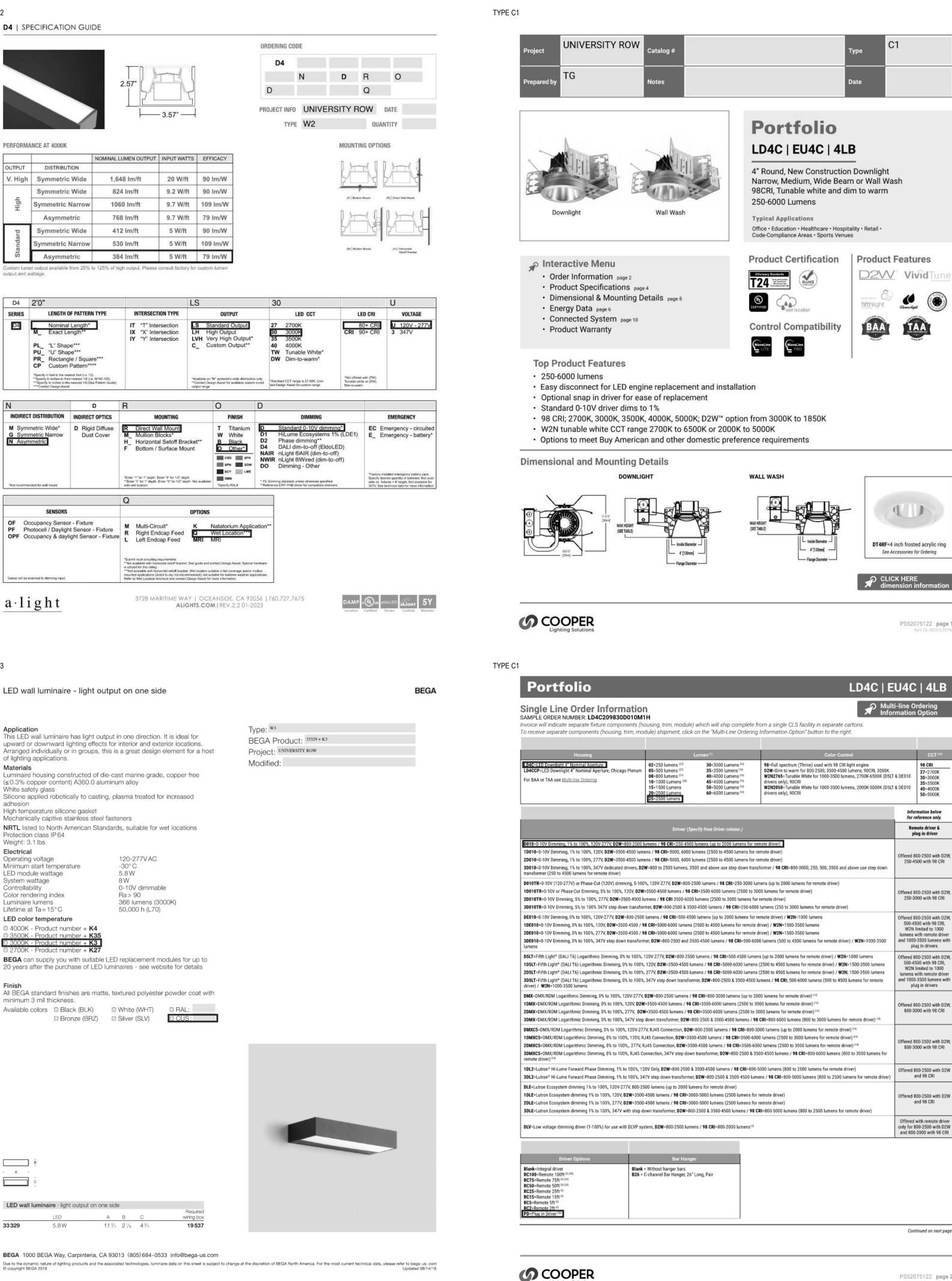




All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness. 

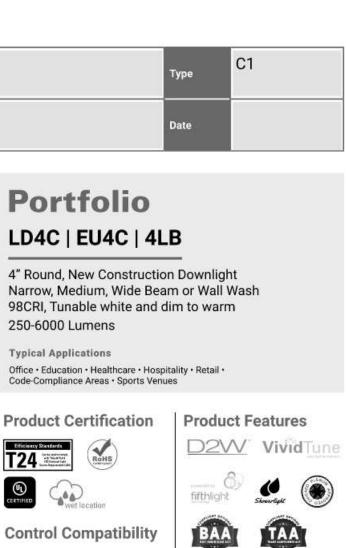
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LED wall lu	minaire · light outpu	ut on one side
	LED	А
33 329	5.8W	11 3/4
BEGA 1000	BEGA Way, Carpint	toria CA 9301
	ic nature of lighting product	-
© copyright BEGA		

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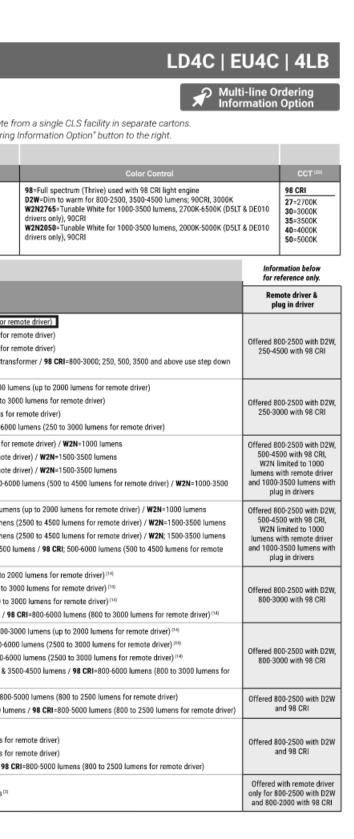
### TYPE C1 Portfolio LD4C | EU4C | 4LE Single Line Order Information EMB0D=Bodine® Emergency Module with Remote Test Switch <sup>(23)</sup> EMB0D6ST=Bodine® 6W Self Test Emergency Module with Remote Test Switch EMT=7W Emergency Module with Remote Test Switch EMT=7W Emergency Module with Remote Test Switch EMB0D=Bodine® Self Test Emergency Module <sup>(26)</sup> IEMB0D=Bodine® Emergency Module with Integral Test Switch<sup>(81)</sup> IEM7=7W Emergency Module with Integral Test Switch<sup>(81)</sup> IEM7=7W Emergency Module with Integral Test Switch<sup>(81)</sup> IEM7=7W Low Voltage Emergency Module with Remote Test Switch<sup>(81)</sup> EMV7=7W Low Voltage Emergency Module with Remote Test Switch<sup>(81)</sup> EMV7=7W Low Voltage Emergency Module with Remote Test Switch<sup>(81)</sup> ETR0=Emergency transfer device<sup>(82)</sup> WPST=Factory installed Wavelinx (includes control module, sensor, cable, tilemour O=White Polymer Trim Ring I=Self-flanged Z=White Painted Self flanged 4=Knife edge rimless use with die cast only<sup>((0)</sup>(2)) B=Specular Clear<sup>(1)</sup> WM=Warr Haze<sup>(1)</sup> GPH=Graphite Haze<sup>(1)</sup> B=Specular Black<sup>(0)</sup> MW=Matte Black<sup>(0)</sup> MB=Matte Black<sup>(0)</sup> MB=Matte Black<sup>(0)</sup> N=Narrow, Spun Aluminum <sup>(24)</sup>(<sup>30)</sup> M=50° Cutoff, Medium Beam Reflector, Spun Aluminum MU=45° Cutoff, Medium Beam Reflector, Spun Aluminum MU=45° Cutoff, Medulm Beam Reflector, Spun Aluminum W=Wide, Spun Aluminum S=Shallow, Spun Aluminum PS=Non-Conductive Shallow, Injection Molded white <sup>(1)</sup>(12) CS=Cast Shallow, Die Cast Aluminum BA=Spun Aluminum Baffle<sup>(2)</sup> Wall Wash SWN=Single Wall Wash, Spun Aluminum MMS=Matte Metallic Silver III DWN=Southe Wall Wash, Spun Aluminum CW=Corner Wall Wash, Spun Aluminum LSWW=Lensed Single wall wash, Spun Aluminum LDWW=Lensed Double wall wash, Spun Aluminum WPST=Factory installed Wavelinx (includes control module, sensor, cable, tilemount and ceiling mount sensor) (15)(10) WLST=Factory installed WaveLinx LITE Sensor Kit (15)(17) WPN = WaveLinx PRO Wireless Node without sensor (21) -----Accessories (Sold separately) (20) RPM4MW=Rimless Millwork Ring, Matte White<sup>(1)</sup> Connected Lighting Systems<sup>(10)(9)</sup> Bar Hangers RPM4MB=Rimless Millwork Ring, Matte Black<sup>(2)</sup> WPST=Field installed WaveLinx sensor Kit<sup>(10)</sup> HB50=C-channel Bar Hanger, 50° Long, Pair RKM4MB=Knife Edge Millwork Ring, Matte Black<sup>(2)</sup> WLST=Field installed WaveLinx LITE Sensor Kit<sup>(10)</sup> HB50=C-channel Bar Hanger, 22° Long, Pair RKM4MB=Knife Edge Millwork Ring, Matte Black<sup>(2)</sup> Transformation Transformation TRM4P=White metal trim ring <sup>10</sup> LGSKT4IP66=IP66 Gasket Kit DT4RF=4 inch frosted acrylic ring <sup>120</sup> RKM4MB=Knife Edge Millwork Ring, Matte Black (\*\*) Transformers HSA4=Slope Adapter for 4" Aperture Housings, Specify Slope (\*) H347=H347 for 98CRI 4000 lumens and below; D2W 4500 lumens and below; W2N 4000 lumens and below H347200=347 to 120V Step Down Transformer, 200VA PRR4=Rimless Plaster Ring<sup>(7)</sup> RKP4=Knife Edge plaster Ring<sup>(24)</sup> Hard200=347 to 120V Step Down Transformer, 200VA Notes: Note: Note

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Continued on next page.

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Portfolio		LD4C   EU4C   4LB
Product Specifications		
<ul> <li>Lower Shielding Reflector</li> <li>Painted die-cast aluminum or spun aluminum lower reflector with lensed upper optical chamber provides superior lumen output with minimal source brightness</li> <li>Spun reflectors are available in all Portfolio anodized finishes</li> <li>Available with non-conductive polymer reflector up to 2000 lumens</li> <li>Plaster lathing ring, knife edge and millwork ring accessory for flush reflector transition</li> <li>Decorative frosted acrylic ring provides a light glow in the ceiling</li> <li>Wall Wash Reflector</li> </ul>	<ul> <li>98 CRI and W2N: L70 55,000 hours</li> <li>Color variation within 2-step MacAdam ellipses</li> <li>Available in 2400K, 2700K, 3000K, 3500K, 4000K and 5000K correlated color temperature (CCT)</li> <li>D2W<sup>w</sup> - dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.</li> <li>W2N - Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI. Standard</li> <li>98 CRI With a full-spectrum approach using broadblue chip technology and special phosphor blends, Thrive is able to closely match the spectrum of the sun across all color temperatures. Benefits of the natural spectrum of the sun using Thrive include superior accurate color rendering, reduced eye strain, and a higher sense of emotional well-being.</li> </ul>	<ul> <li>WaveLinx LITE Tilemount Sensor Kit</li> <li>WaveLinx LITE WLST tilemount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.</li> <li>WaveLinx Tilemount Kits Application</li> <li>The WPST and WLST tilemount kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch whip; for ceiling installation by direct-moun spring clips or via mounting bracket in octagon ceiling boxes.</li> <li>The WPST and WLST tilemount kits may be orderer as factory installed on the luminaire, or ordered separately as a field installed accessory kit.</li> </ul>
<ul> <li>Open Wall Wash - wall wash reflector with gradient kicker offered in single, double and corner wall wash provides even vertical illumination with minimal source brightness.</li> <li>Rotatable Lensed Wall Wash - Rotatable Lensed wall wash reflector offered in single and double wall wash provides even vertical illumination with minimal source brightness.</li> </ul>	<ul> <li>Driver</li> <li>Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%</li> <li>Optional 120V leading edge/0-10V, &lt;1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem</li> <li>Driver can be serviced from above or through the aperture</li> </ul>	Code Compliance     Thermally protected     CULus Certified to UL 1598 / C22.2 No. 250.0     suitable for wet locations with downlight; damp     location with wall wash and hyperbolic with     covered celling
<ul> <li>Trim Retention</li> <li>Two torsion springs hold reflector flange tightly to the finished ceiling surface</li> </ul>	<ul> <li>Distributed low voltage power system combines power, lighting, and controls with ease of installation.</li> <li>Optional Magnetically guided snap in driver for ease</li> </ul>	<ul> <li>IP66 rated when used with IP66 gasket kit accessory</li> <li>Optional City of Chicago environmental air (CCEA) marking for plenum applications</li> <li>FCC CFR Title 47 Part 15 Class B at 120VAC an</li> </ul>
Plaster Frame/Collar	of maintenance.	Class A at 277VAC
<ul> <li>Die-cast aluminum 1 ½" deep collar</li> <li>Accommodates up to 2" ceiling thickness</li> </ul>	Emergency Option <ul> <li>Provides 90 minutes of standby lighting, meeting most life safety codes for egress lighting</li> </ul>	<ul> <li>Insulated ceiling (IC) rated up to 800 lumens (98 CRI &amp; D2W); 1000 lumens (W2N). All others are non-IC rated (insulation must be kept 3"</li> </ul>
<ul> <li>Universal Mounting Bracket</li> <li>Accepts 1/2" Electric Metallic Tube (EMT), C-channel and bar hangers</li> <li>Adjusts 5" vertically from above and below the ceiling</li> <li>Junction box</li> <li>Four 1/2" and two 3/4" trade size pry outs positioned to allow straight conduit runs</li> </ul>	<ul> <li>Available with integral or remote charge indicator and test switch</li> <li>Available Self-Test with remote charge indicator and test switch</li> <li>Emergency transfer device (ETRD) senses the loss of power regardless of local control settings allowing emergency power to the fixture.</li> <li>UL 924 listed</li> </ul>	<ul> <li>from top and sides of housing).</li> <li>Can be used for State of California Title 24 high efficacy LED compliance under JA8, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2016 JA8 High Efficacy Lighting</li> <li>RoHS compliant</li> <li>Photometric testing completed in accordance with IES LM-79</li> </ul>
<ul> <li>Lever connectors for simple push in wiring.</li> <li>Listed for eight #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring</li> </ul>	Connected Lighting System Two WaveLinx connected solutions to choose from. Refer to WaveLinx system specifications and	<ul> <li>LED life testing completed in accordance with IES LM-80-08 and TM-21-11 standards</li> <li>See table on page 3 for marked spacing</li> </ul>
Thermal	application guides for details.	requirements
<ul> <li>Aluminum heat sink conducts heat away from the LED module for improved performance and longer life</li> <li>LED System</li> <li>Contains a plurality of high brightness white LED's</li> </ul>	<ul> <li>WaveLinx PRO Tilemount Sensor Kit</li> <li>WaveLinx WPST tilemount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services</li> </ul>	Warranty <ul> <li>Five year warranty <u>www.cooperlighting.com/legal</u></li> </ul>
<ul> <li>Contains a pluranty of high brightness white LED's combined with a high reflectance upper reflector and convex transitional lens producing even distribution without pixilation</li> <li>Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded</li> <li>Quick disconnect allows for tool-less replacement</li> </ul>	available. <u>WaveLinx PRO Wireless Node</u> • WaveLinx PRO wireless node provides luminaire- level control with scene and zone configuration without an integrated sensor; Connects wirelessly with daylight dimming sensor and PIP motion	

with daylight dimming sensor and PIR motion

sensor if desired. Use with 0-10V driver only.

COOPER

4-inch Marked spacing for 98 CRI

4-inch Marked spacing for D2W

3000-4500 36 36 8

3000 36 36 0.5

3500 36 36 8

4-inch Marked spacing for W2N

3000-6000 36 36 8

of LED engine from below ceiling

Marked Spacing

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D	750 University Row Madison, WI 53703
	ISSUANCE AND REVISIONS
C	
	KEY PLAN
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