

# URBAN DESIGN COMMISSION APPLICATION

# UDC

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



## FOR OFFICE USE ONLY:

Paid \_\_\_\_\_ Receipt # \_\_\_\_\_  
Date received \_\_\_\_\_  
Received by \_\_\_\_\_  
Aldermanic District \_\_\_\_\_  
Zoning District \_\_\_\_\_  
Urban Design District \_\_\_\_\_  
Submission reviewed by \_\_\_\_\_  
Legistar # \_\_\_\_\_

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

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

## 1. Project Information

Address: \_\_\_\_\_

Title: \_\_\_\_\_

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

UDC meeting date requested \_\_\_\_\_

New development

Alteration to an existing or previously-approved development

Informational

Initial approval

Final approval

## 3. Project Type

Project in an Urban Design District

Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)

Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)

Planned Development (PD)

General Development Plan (GDP)

Specific Implementation Plan (SIP)

Planned Multi-Use Site or Residential Building Complex

### Signage

Comprehensive Design Review (CDR)

Signage Variance (i.e. modification of signage height, area, and setback)

Signage Exception

### Other

Please specify

\_\_\_\_\_

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

**Applicant name** \_\_\_\_\_

Company \_\_\_\_\_

Street address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Email \_\_\_\_\_

**Project contact person** \_\_\_\_\_

Company \_\_\_\_\_

Street address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Email \_\_\_\_\_

**Property owner (if not applicant)** \_\_\_\_\_

Street address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone \_\_\_\_\_

Email \_\_\_\_\_

**5. Required Submittal Materials**

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

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

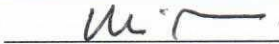
Both the paper copies and electronic copies must be submitted prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. A completed application form is required for each UDC appearance.

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

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

**6. Applicant Declarations**

1. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with Kevin Firchow on May 5th, 2022.
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 Namdi Alexander Relationship to property Architectural Designer  
 Authorizing signature of property owner  Date 06.27.2022

*RECORDS, ZONING DIVISIONS*

**7. Application Filing Fees**

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

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

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

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

- 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

## Introduction

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

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

## Types of Approvals

There are three types of requests considered by the UDC:

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

## Presentations to the Commission

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

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

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



# URBAN DESIGN DEVELOPMENT PLANS CHECKLIST

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

## 1. Informational Presentation

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

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

### Requirements for All Plan Sheets

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

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

## 2. Initial Approval

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

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

## 3. Final Approval

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

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

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

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



**Subject:** Zor 3 Land Use Application  
**Date:** Thursday, June 2, 2022 at 10:48:40 AM Central Daylight Time  
**From:** Mark Laverty  
**To:** district9@cityofmadison.com  
**CC:** Kim Van Dyn Hoven  
**Attachments:** image006.png, image007.png, image008.png, image009.png, image010.png

Hi Alder Nikki Conklin,

We will be submitting a Land Use application on June 27, 2022 for the third phase of our development at 575 Zor Shrine Place, Madison, WI. The 104-unit project is going to be a market-rate development age restricted to people 55+. This is independent living, so this is that in-between step where they are ready to be done with their single family home but do not need additional services. We hope that this will then allow those homes that people will be moving from to be available to the next generation wanting to live in Madison. Below shows a rough site plan of the new building, far west, compared to the other two buildings that are slated for development this summer. Please let me know if you are available to discuss any question or thoughts you may have.





June 27, 2022

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

Re: Rezoning of 575 Zor Shrine Place – West Parcel

Dear Members of the Plan Commission and Common Council:

Please accept this Letter of Intent, Application and plans as our formal request for approval to rezone the west parcel of the site at 575 Zor Shrine Place from the Suburban Employment (SE) to the Traditional Residential – Urban District (TR-U2). We are requesting approval of our plans for the development of an active adult multifamily building on the site. The project is being financed through a first mortgage, owner equity, and equity partners in the deal. The experienced project team consists of Saturday Properties (Developer – Mark Laverty and Property Manager – Jaime Perron), a local developer out of the Twin Cities Area, AWH (Architect – Namdi Alexander), Stevens Construction (General Contractor – Matt Hartenstein), and Vierbicher (Civil Engineer – Matt Schreiner).

We believe this project is a benefit to the City of Madison and neighborhood for the key reasons:

- Creation of 105 new, age restricted rental apartments that will give renters another option in an area
- Public connection to the planned bike path
- Estimated annual property taxes per year of \$400,000 for a parcel that is currently exempt from property taxes
- Park impact fees totaling \$440,000 at the time building permits are issued for the development

The Zor Shrine site is located at 575 Zor Shrine Place in Madison, WI. Saturday Zor Shine, LLC has entered into a Purchase Agreement with Madison Zor Shriners to purchase the full site, both west and east parcels. This sale is expected to happen in July 2022, with demolition of the exiting building and parking lot started in August 2022 for the two-building multifamily development. Saturday Zor Shrine will then sell off the west parcel to a to-be-created entity for the development of the active adult building in March 2023.

The project redevelopment consists of a 105-unit age-restricted multifamily building across 175,065 gross square feet. The building will have 106 underground parking stalls and 23 surface parking for the project.

Project amenities include fitness room, pool, pickleball court, grill and chill areas, enclosed bike parking, and top floor lounge with views. In addition, residents will have access to the dog run created with the east development and the future bike path connection, amongst many great neighborhood restaurants and shopping options. Landscaping and trees surrounding the buildings will provide a sense of privacy and will include many native plant and tree species.

The developer will acquire the property in July 2022 and start construction by March of 2023. The project is projected to open by July 2024. Once developed, the project will be managed by Saturday Properties with local staff hired to run and maintain the buildings. Saturday expects there to be a total of five fulltime employees, bringing new jobs to the area. The roles will be for a general manager, assistant manager, leasing, maintenance crew, and caretaker with staff available for questions at all times. The team will work typical hours with leasing and site visits available at peak times during the days and weeks.

Sincerely,



**Saturday Properties LLC**  
Mark Laverty



# ZOR SHRINE WEST - 06.27.2022

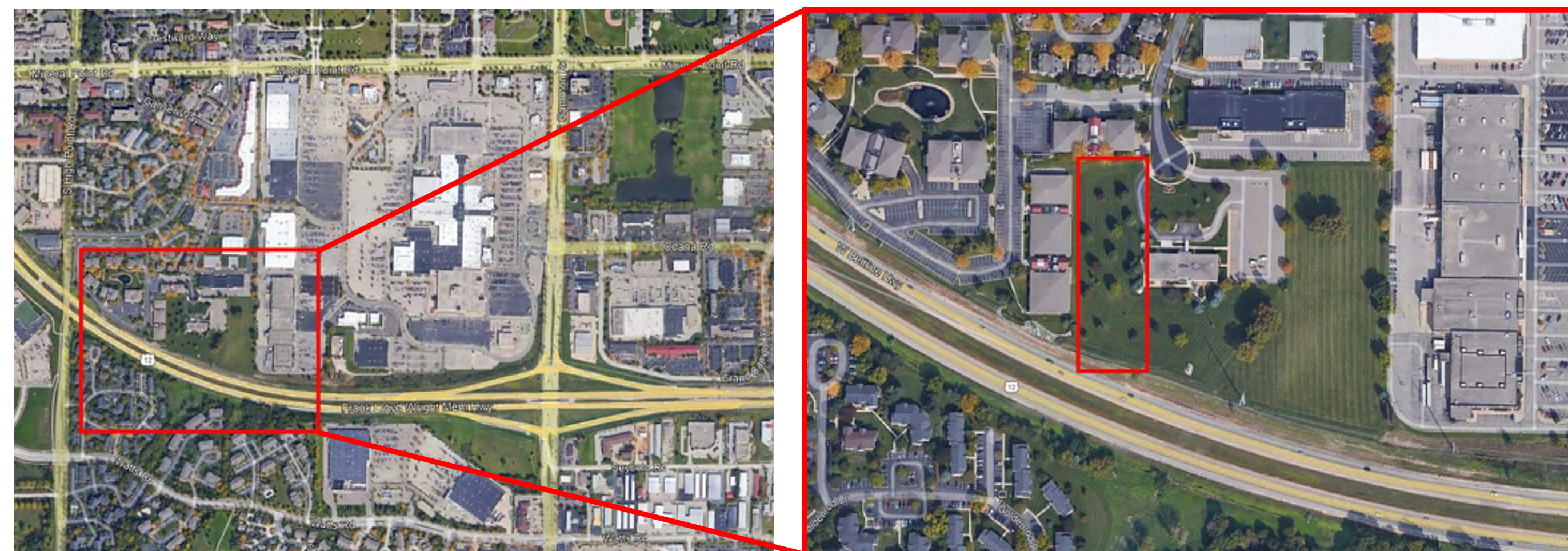
## MADISON, WI



### SHEET INDEX

SHEET NUMBER	SHEET NAME	UDC REVIEW 06/27/2022
<b>GENERAL INFORMATION</b>		
T1.1	TITLE SHEET	•
<b>CIVIL</b>		
C100	EXISTING CONDITIONS	•
C200	DEMOLITION PLAN	•
C300	SITE PLAN	•
C400	EROSION CONTROL PLAN	•
C500	GRADING PLAN	•
C600	UTILITY PLAN	•
C700	CONSTRUCTION DETAILS - 1	•
C701	CONSTRUCTION DETAILS - 2	•
C702	CONSTRUCTION DETAILS - 3	•
C703	CONSTRUCTION DETAILS - 4	•
<b>LANDSCAPE</b>		
L100	LANDSCAPE PLAN	•
L101	LANDSCAPE PLAN - NORTH	•
L102	LANDSCAPE PLAN - SOUTH	•
<b>ARCHITECTURAL</b>		
A0.1	ARCH. SITE PLAN	•
A0.2	SITE LIGHTING	•
A0.3	SITE CONTEXT	•
A1.1	GARAGE AND FIRST LEVEL PLAN	•
A1.2	2ND AND 5TH LEVEL PLAN	•
A1.3	ROOF PLAN	•
A3.1	EXTERIOR ELEVATIONS - COLOR	•
A3.2	EXTERIOR ELEVATIONS - COLOR	•
A3.3	EXTERIOR ELEVATIONS - B&W	•
A3.4	EXTERIOR ELEVATIONS - B&W	•
A8.1	COURTYARD AND AMENITY SPACE	•
A12.1	PERSPECTIVE VIEWS	•
A12.2	PERSPECTIVE VIEWS	•

### PROJECT LOCATION



Vicinity

Site Location

### PROJECT TEAM

**Owner/Developer:** Saturday Properties  
3546 Dakota Ave. So. Suite D  
St. Louis Park, MN 55416  
Ph: 612-360-3113

**Architect:** AWH Architects  
12 E. 25th Street  
Minneapolis, MN 55404  
Ph: 612-558-5383

**Civil / Landscape:** Vierbicher  
999 Fourier Drive, Suite 201  
Madison, WI 53717  
Ph: 608-826-0532

**Contractor:** T.B.D.

**Structural Engineer:** T.B.D.

**Mechanical,  
Electrical,  
Plumbing Engineers:** T.B.D.



Alex Haecker, AIA  
12 E. 25th St.  
Minneapolis, MN 55404  
alex@awharchitects.com  
612-558-5383  
ARCHITECT

STRUCTURAL ENGINEER



999 Fourier Dr., suite 201  
Madison, WI 53717  
608-826-0532

CIVILLA ENGINEER

PROJECT:

ZOR SHRINE WEST  
MADISON, WI  
NOT FOR CONSTRUCTION

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Architect under the laws of the State of Minnesota.

Name:  
Alex Haecker, AIA  
Signature:

License #: 48654

Date: 06/27/2022

ISSUE DATE

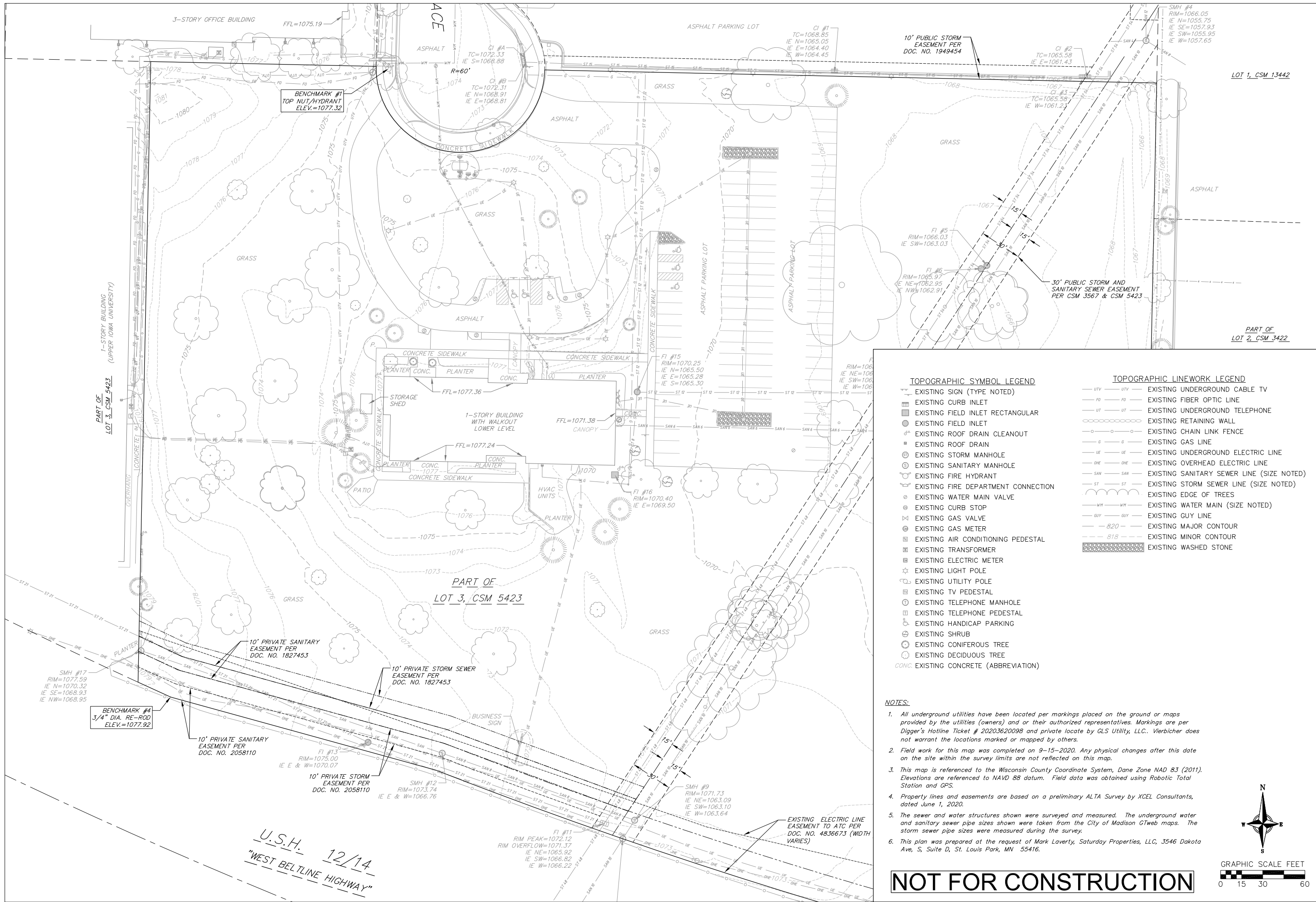
TITLE SHEET

SHEET TITLE

T1.1

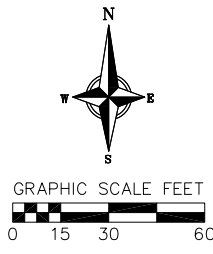
SHEET





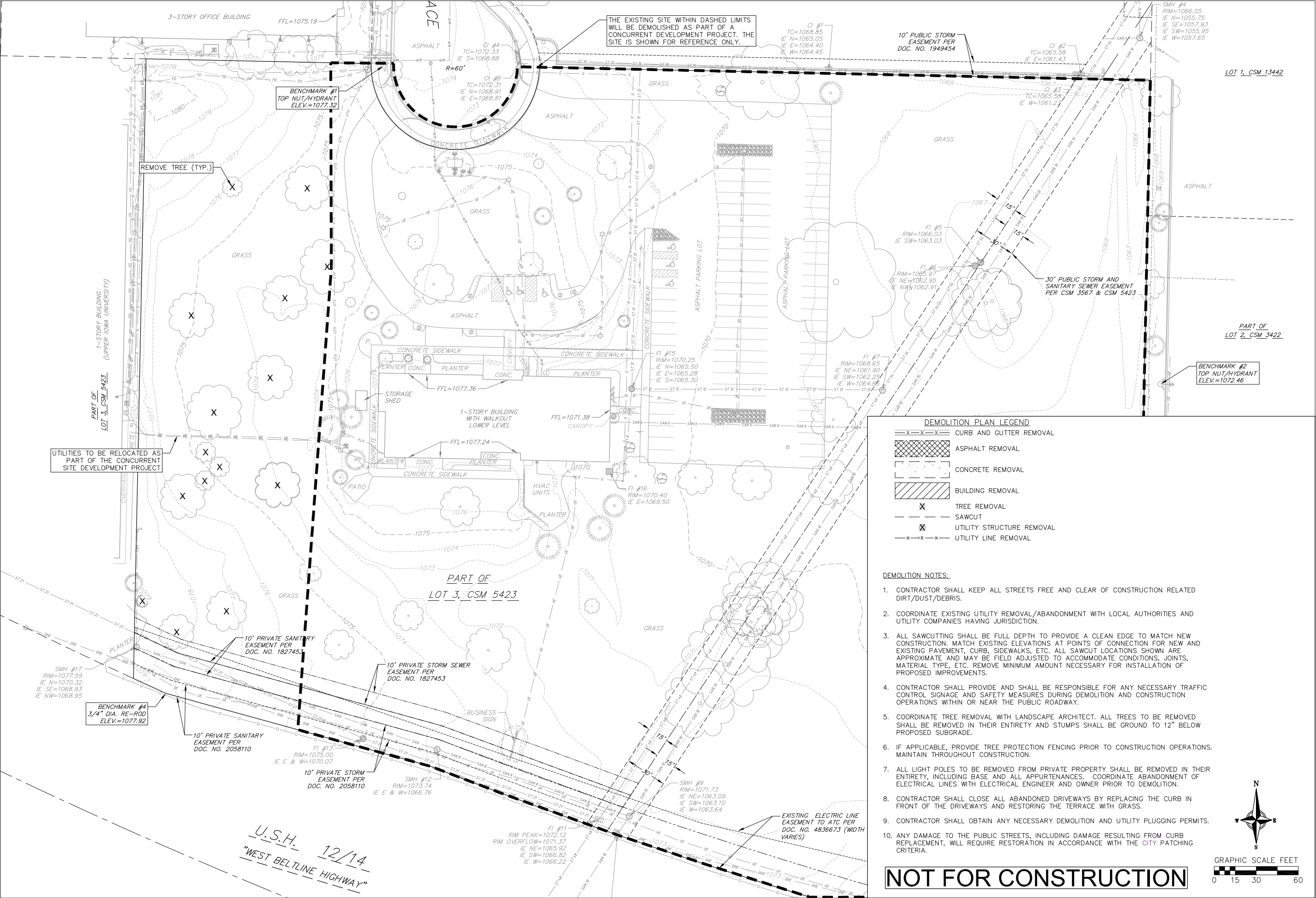
TOPOGRAPHIC SYMBOL LEGEND		TOPOGRAPHIC LINEWORK LEGEND	
	EXISTING SIGN (TYPE NOTED)		EXISTING UNDERGROUND CABLE TV
	EXISTING CURB INLET		EXISTING FIBER OPTIC LINE
	EXISTING FIELD INLET RECTANGULAR		EXISTING UNDERGROUND TELEPHONE
	EXISTING FIELD INLET		EXISTING RETAINING WALL
	EXISTING ROOF DRAIN CLEANOUT		EXISTING CHAIN LINK FENCE
	EXISTING ROOF DRAIN		EXISTING GAS LINE
	EXISTING STORM MANHOLE		EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING SANITARY MANHOLE		EXISTING OVERHEAD ELECTRIC LINE
	EXISTING FIRE HYDRANT		EXISTING SANITARY SEWER LINE (SIZE NOTED)
	EXISTING FIRE DEPARTMENT CONNECTION		EXISTING STORM SEWER LINE (SIZE NOTED)
	EXISTING WATER MAIN VALVE		EXISTING EDGE OF TREES
	EXISTING CURB STOP		EXISTING WATER MAIN (SIZE NOTED)
	EXISTING GAS VALVE		EXISTING GUY LINE
	EXISTING GAS METER		EXISTING MAJOR CONTOUR
	EXISTING AIR CONDITIONING PEDESTAL		EXISTING MINOR CONTOUR
	EXISTING TRANSFORMER		EXISTING WASHED STONE
	EXISTING ELECTRIC METER		
	EXISTING LIGHT POLE		
	EXISTING UTILITY POLE		
	EXISTING TV PEDESTAL		
	EXISTING TELEPHONE MANHOLE		
	EXISTING TELEPHONE PEDESTAL		
	EXISTING HANDICAP PARKING		
	EXISTING SHRUB		
	EXISTING CONIFEROUS TREE		
	EXISTING DECIDUOUS TREE		
	CONC. EXISTING CONCRETE (ABBREVIATION)		

- NOTES:**
- All underground utilities have been located per markings placed on the ground or maps provided by the utilities (owners) and or their authorized representatives. Markings are per Digger's Hotline Ticket # 20203620098 and private locate by GLS Utility, LLC. Vierbicher does not warrant the locations marked or mapped by others.
  - Field work for this map was completed on 9-15-2020. Any physical changes after this date on the site within the survey limits are not reflected on this map.
  - This map is referenced to the Wisconsin County Coordinate System, Dane Zone NAD 83 (2011). Elevations are referenced to NAVD 88 datum. Field data was obtained using Robotic Total Station and GPS.
  - Property lines and easements are based on a preliminary ALTA Survey by XCEL Consultants, dated June 1, 2020.
  - The sewer and water structures shown were surveyed and measured. The underground water and sanitary sewer pipe sizes shown were taken from the City of Madison GWeb maps. The storm sewer pipe sizes were measured during the survey.
  - This plan was prepared at the request of Mark Laverty, Saturday Properties, LLC, 3546 Dakota Ave, S, Suite D, St. Louis Park, MN 55416.



**NOT FOR CONSTRUCTION**

U.S.H. 12/14  
"WEST BELTLINE HIGHWAY"



THE EXISTING SITE WITHIN DASHED LIMITS WILL BE DEMOLISHED AS PART OF A CONCURRENT DEVELOPMENT PROJECT. THE SITE IS SHOWN FOR REFERENCE ONLY.

10' PUBLIC STORM EASEMENT PER DOC. NO. 1949454

SMH #4  
RIM=1066.05  
IE N=1055.75  
IE SE=1057.93  
IE SW=1055.95  
IE W=1057.65

CI #1  
TC=1068.85  
IE N=1065.05  
IE E=1064.40  
IE W=1064.45

CI #2  
TC=1065.58  
IE E=1061.43

BENCHMARK #1  
TOP NUT/HYDRANT  
ELEV.=1077.32

BENCHMARK #2  
TOP NUT/HYDRANT  
ELEV.=1072.46

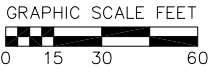
**DEMOLITION PLAN LEGEND**

- CURB AND GUTTER REMOVAL
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- BUILDING REMOVAL
- TREE REMOVAL
- SAWCUT
- UTILITY STRUCTURE REMOVAL
- UTILITY LINE REMOVAL

**DEMOLITION NOTES:**

1. CONTRACTOR SHALL KEEP ALL STREETS FREE AND CLEAR OF CONSTRUCTION RELATED DIRT/DUST/DEBRIS.
2. COORDINATE EXISTING UTILITY REMOVAL/ABANDONMENT WITH LOCAL AUTHORITIES AND UTILITY COMPANIES HAVING JURISDICTION.
3. ALL SAWCUTTING SHALL BE FULL DEPTH TO PROVIDE A CLEAN EDGE TO MATCH NEW CONSTRUCTION. MATCH EXISTING ELEVATIONS AT POINTS OF CONNECTION FOR NEW AND EXISTING PAVEMENT, CURB, SIDEWALKS, ETC. ALL SAWCUT LOCATIONS SHOWN ARE APPROXIMATE AND MAY BE FIELD ADJUSTED TO ACCOMMODATE CONDITIONS, JOINTS, MATERIAL TYPE, ETC. REMOVE MINIMUM AMOUNT NECESSARY FOR INSTALLATION OF PROPOSED IMPROVEMENTS.
4. CONTRACTOR SHALL PROVIDE AND SHALL BE RESPONSIBLE FOR ANY NECESSARY TRAFFIC CONTROL SIGNAGE AND SAFETY MEASURES DURING DEMOLITION AND CONSTRUCTION OPERATIONS WITHIN OR NEAR THE PUBLIC ROADWAY.
5. COORDINATE TREE REMOVAL WITH LANDSCAPE ARCHITECT. ALL TREES TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY AND STUMPS SHALL BE GROUND TO 12" BELOW PROPOSED SUBGRADE.
6. IF APPLICABLE, PROVIDE TREE PROTECTION FENCING PRIOR TO CONSTRUCTION OPERATIONS. MAINTAIN THROUGHOUT CONSTRUCTION.
7. ALL LIGHT POLES TO BE REMOVED FROM PRIVATE PROPERTY SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING BASE AND ALL APPURTENANCES. COORDINATE ABANDONMENT OF ELECTRICAL LINES WITH ELECTRICAL ENGINEER AND OWNER PRIOR TO DEMOLITION.
8. CONTRACTOR SHALL CLOSE ALL ABANDONED DRIVEWAYS BY REPLACING THE CURB IN FRONT OF THE DRIVEWAYS AND RESTORING THE TERRACE WITH GRASS.
9. CONTRACTOR SHALL OBTAIN ANY NECESSARY DEMOLITION AND UTILITY PLUGGING PERMITS.
10. ANY DAMAGE TO THE PUBLIC STREETS, INCLUDING DAMAGE RESULTING FROM CURB REPLACEMENT, WILL REQUIRE RESTORATION IN ACCORDANCE WITH THE CITY PATCHING CRITERIA.

**NOT FOR CONSTRUCTION**



**AMH**  
Alex Haecker, AIA  
12 E 25th St  
Minneapolis, MN 55404  
alex@amharchitects.com  
612-558-5383  
ARCHITECT

STRUCTURAL ENGINEER  
**vierbicher**  
engineers architects

999 Fourler Dr., suite 201  
Madison, WI 53717  
608-826-0532

CIVIL ENGINEER

PROJECT:

ZOR SHRINE WEST  
MADISON, WI

Date: 06/27/2022

ISSUE	DATE

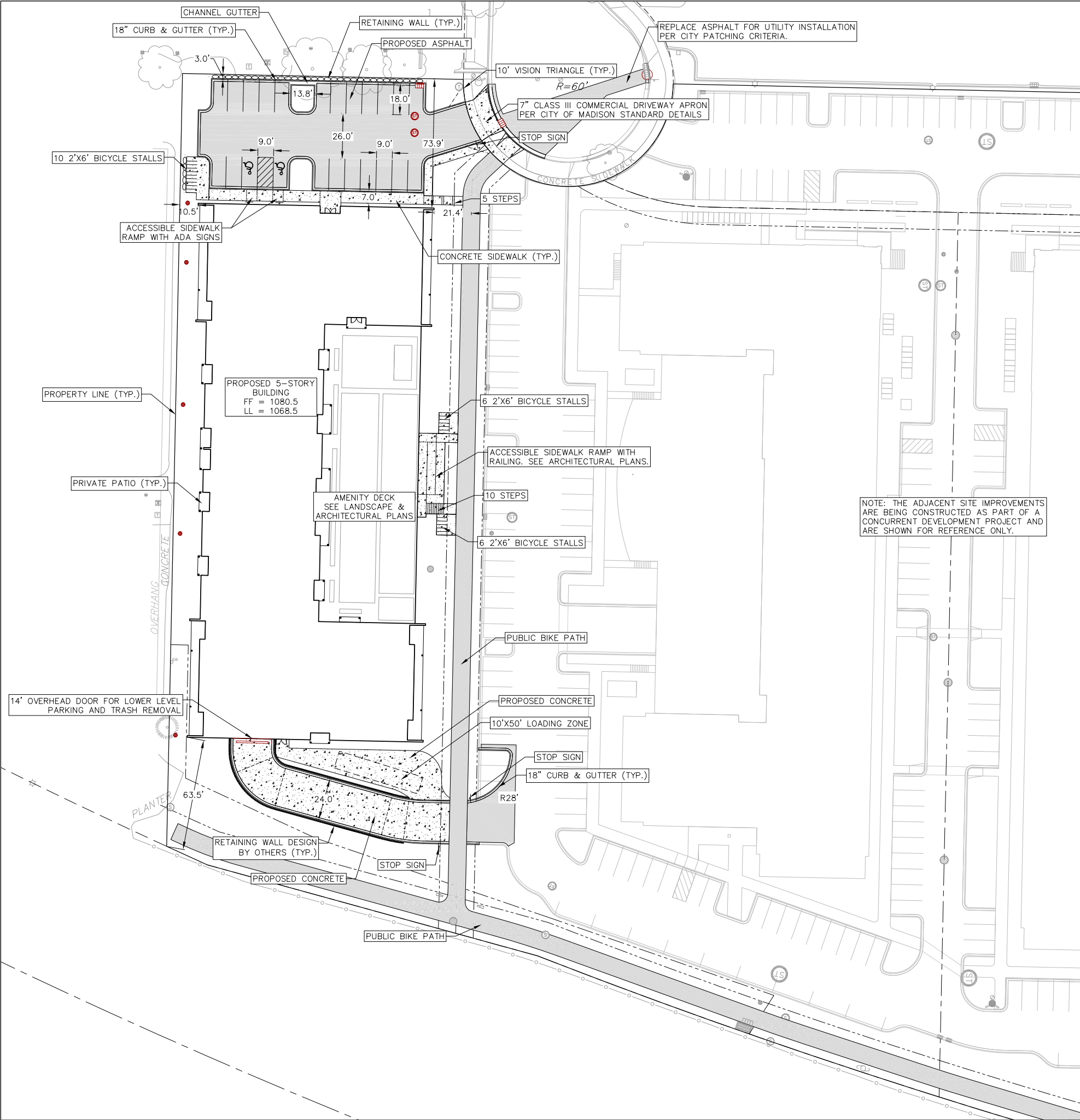
DEMOLITION PLAN

SHEET TITLE

**C200**

SHEET NO.





REPLACE ASPHALT FOR UTILITY INSTALLATION PER CITY PATCHING CRITERIA.

NOTE: THE ADJACENT SITE IMPROVEMENTS ARE BEING CONSTRUCTED AS PART OF A CONCURRENT DEVELOPMENT PROJECT AND ARE SHOWN FOR REFERENCE ONLY.

**SITE PLAN NOTES:**

1. CONCRETE TO BE 5" THICK, CONSTRUCTED ON A BASE OF 4" COMPACTED BASE COURSE UNLESS OTHERWISE NOTED.
2. CONCRETE FOR DRIVEWAYS AND SIDEWALK AT DRIVEWAY ENTRANCES SHALL BE 7" THICK, CONSTRUCTED ON A BASE COURSE OF 5" COMPACTED SAND OR CRUSHED STONE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS WITH CURB & GUTTER ARE REFERENCED TO THE FACE OF CURB.
4. CONTRACTOR SHALL DEEP TILL ANY DISTURBED AREAS TO BE RESTORED WITH TOPSOIL AFTER CONSTRUCTION IS COMPLETE AND BEFORE RESTORING.
5. CONTRACTOR TO OBTAIN ANY NECESSARY DRIVEWAY CONNECTION, RIGHT OF WAY AND EXCAVATION PERMITS PRIOR TO CONSTRUCTION.
6. ANY SIDEWALK AND CURB & GUTTER ABUTTING THE PROPERTY SHALL BE REPLACED IF IT IS DAMAGED DURING CONSTRUCTION OR IF THE CITY ENGINEERING DEPARTMENT DETERMINES THAT IT IS NOT AT A DESIRABLE GRADE, REGARDLESS OF WHETHER THE CONDITION EXISTED PRIOR TO BEGINNING CONSTRUCTION.
7. SEE ARCHITECTS PLANS FOR THE BUILDING DIMENSIONS. ALL BUILDING DIMENSIONS SHALL BE COORDINATED AND VERIFIED WITH THE ARCHITECTS PLANS. ALL DIMENSIONS TO BUILDINGS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

**PARKING LOT SITE INFORMATION BLOCK**

SITE ADDRESS: 575 ZOR SHRINE PLACE  
 SITE ACREAGE (TOTAL) = 1.79 ACRES (LOT 3 OF PENDING CSM)

NUMBER OF BUILDING STORIES (ABOVE GRADE): 5  
 BUILDING HEIGHT: 77'  
 DILHR TYPE OF CONSTRUCTION: TYPE 3B RESIDENTIAL, 2B PARKING  
 USE OF PROPERTY: SENIOR HOUSING  
 GROSS SQUARE FT OF BUILDING: 175,065 GSF  
 GROSS SQUARE FT OF COMMERCIAL/OFFICE AREA: 0 GSF  
 NUMBER OF EMPLOYEES: 3  
 NUMBER OF EMPLOYEES IN PRODUCTION AREA: N/A  
 CAPACITY OF RESTAURANT/PLACE OF ASSEMBLY: N/A

NUMBER OF BICYCLE STALLS SHOWN: 99 INTERNAL + 22 EXTERNAL = 121

**NUMBER OF PARKING STALLS:**

PROPOSED SITE	23
PROPOSED COVERED	98
ELECTRIC VEHICLE	2% EV INSTALLED. 10% EV READY.
ACCESSIBLE	5 TOTAL. 0 ON SITE. 5 COVERED.
VAN ACCESSIBLE	2 ON SITE. 1 COVERED.
TOTAL	121

NUMBER OF TREES SHOWN: SEE LANDSCAPE PLAN

**LOT COVERAGE & USABLE OPEN SPACE CALCULATIONS**

SITE AREA: 77,825 SF  
 LOT COVERAGE: 57015 SF  
 LOT COVERAGE: 73%  
 LOT COVERAGE MAXIMUM: 80%

NUMBER OF DWELLING UNITS: 100  
 REQUIRED USABLE OPEN SPACE = 40 SF/D.U. = 4,000 SF  
 SITE USABLE OPEN SPACE AREA: 3,040 SF  
 BUILDING USABLE OPEN SPACE AREA (BALCONIES & COURTYARD AREA): 17,823 SF  
 (CAN ACCOUNT FOR 75% OF USABLE OPEN SPACE REQUIREMENT)

TOTAL USABLE OPEN SPACE: 20,863 SF

**SITE PLAN LEGEND**

- PROPERTY BOUNDARY
- ▨ CURB AND GUTTER (REVERSE CURB HATCHED)
- PROPOSED CHAIN LINK FENCE
- PROPOSED WOOD FENCE
- ▤ PROPOSED CONCRETE
- ▧ PROPOSED LIGHT-DUTY ASPHALT
- ▩ PROPOSED HEAVY-DUTY ASPHALT
- ⊙ PROPOSED SIGN
- ⊙ PROPOSED LIGHT POLE
- PROPOSED BOLLARD
- ▤ PROPOSED ADA DETECTABLE WARNING FIELD
- ♿ PROPOSED HANDICAP PARKING



**NOT FOR CONSTRUCTION**

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PROJECT:  
 ZOR SHRINE WEST  
 MADISON, WI

Date: 06/27/2022

ISSUE	DATE

SITE PLAN  
 SHEET TITLE  
**C300**  
 SHEET NO.

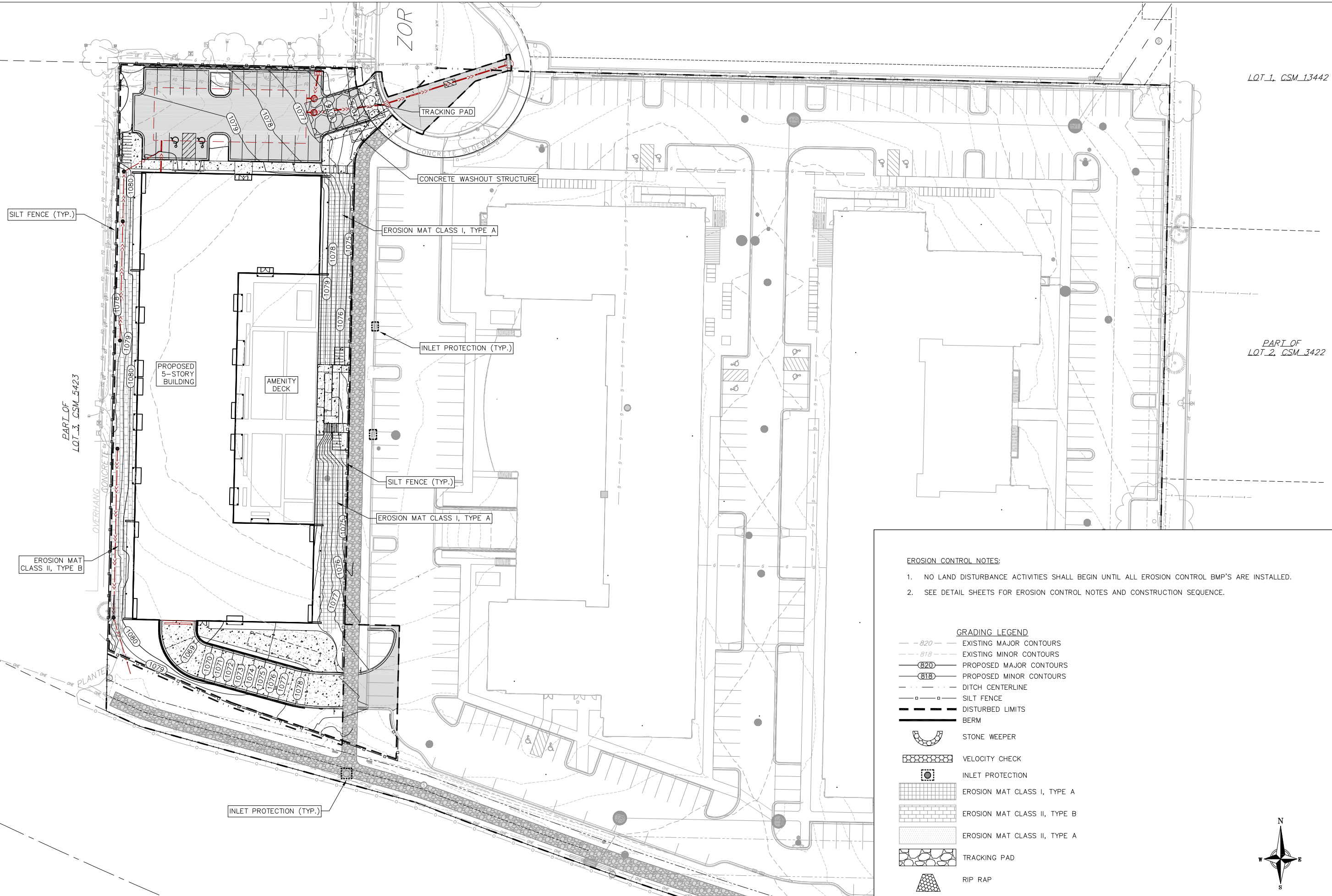
ISSUE	DATE

LOT 1, CSM 13442

PART OF LOT 2, CSM 3422

PART OF LOT 3, CSM 5423

U.S.H. WEST



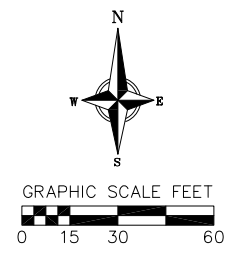
**EROSION CONTROL NOTES:**

1. NO LAND DISTURBANCE ACTIVITIES SHALL BEGIN UNTIL ALL EROSION CONTROL BMP'S ARE INSTALLED.
2. SEE DETAIL SHEETS FOR EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE.

**GRADING LEGEND**

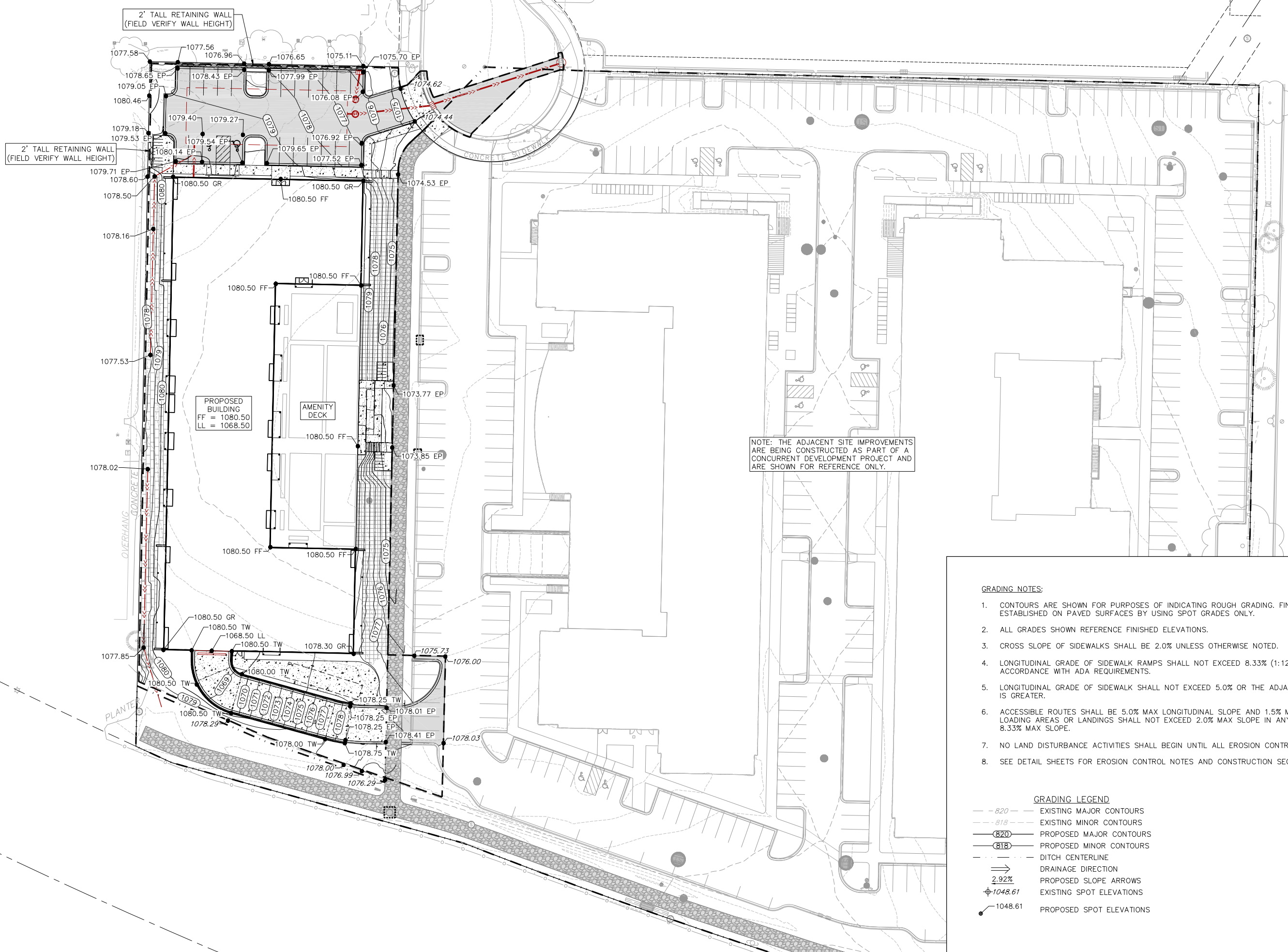
- - - 820 - - - EXISTING MAJOR CONTOURS
- - - 818 - - - EXISTING MINOR CONTOURS
- 820 — PROPOSED MAJOR CONTOURS
- 818 — PROPOSED MINOR CONTOURS
- - - - - DITCH CENTERLINE
- - - - - SILT FENCE
- - - - - DISTURBED LIMITS
- — — — — BERM
- — — — — STONE WEEPER
- — — — — VELOCITY CHECK
- — — — — INLET PROTECTION
- — — — — EROSION MAT CLASS I, TYPE A
- — — — — EROSION MAT CLASS II, TYPE B
- — — — — EROSION MAT CLASS II, TYPE A
- — — — — TRACKING PAD
- — — — — RIP RAP

**NOT FOR CONSTRUCTION**





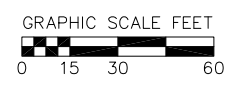
ISSUE	DATE



NOTE: THE ADJACENT SITE IMPROVEMENTS ARE BEING CONSTRUCTED AS PART OF A CONCURRENT DEVELOPMENT PROJECT AND ARE SHOWN FOR REFERENCE ONLY.

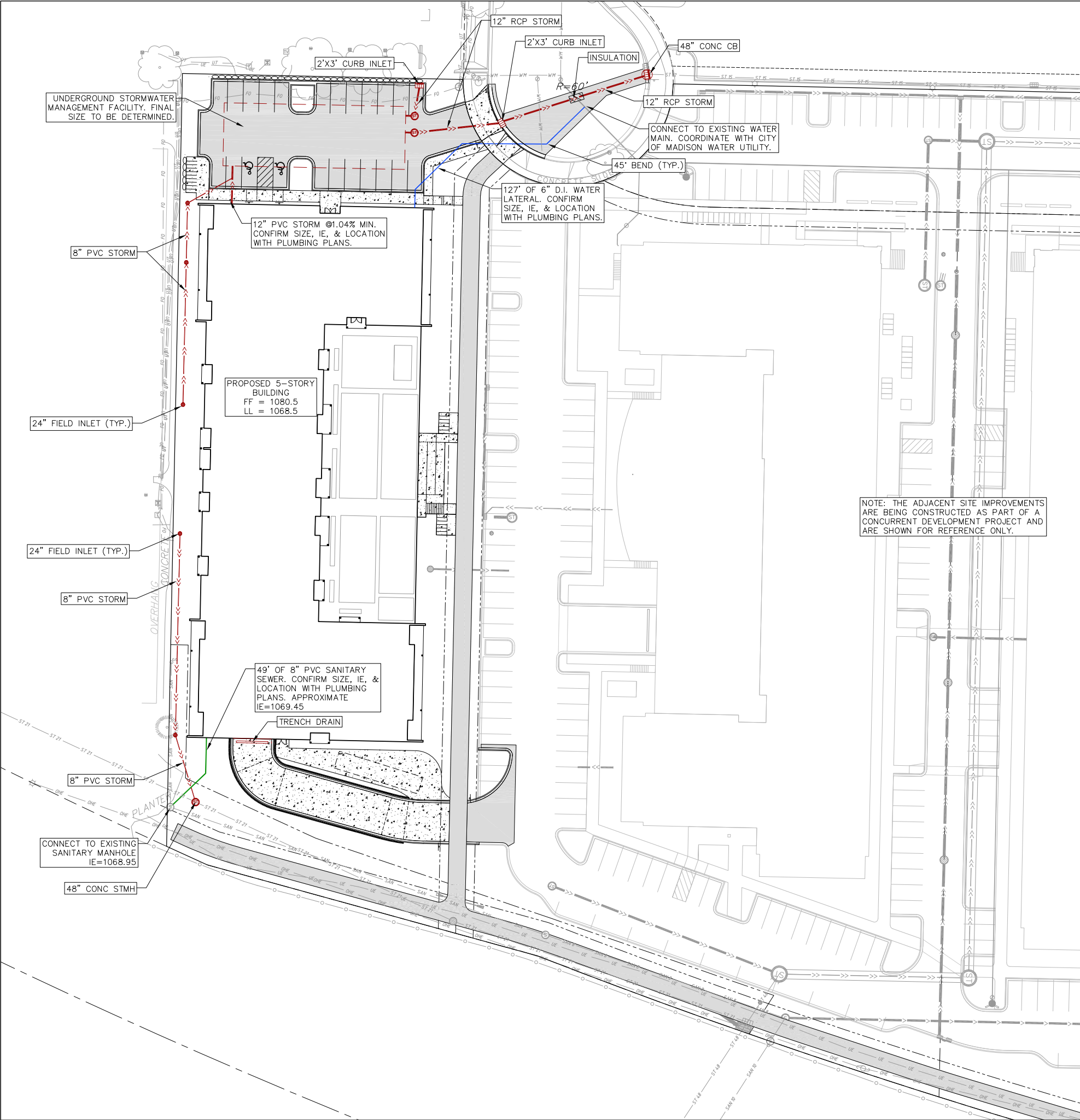
- GRADING NOTES:**
1. CONTOURS ARE SHOWN FOR PURPOSES OF INDICATING ROUGH GRADING. FINAL GRADE SHALL BE ESTABLISHED ON PAVED SURFACES BY USING SPOT GRADES ONLY.
  2. ALL GRADES SHOWN REFERENCE FINISHED ELEVATIONS.
  3. CROSS SLOPE OF SIDEWALKS SHALL BE 2.0% UNLESS OTHERWISE NOTED.
  4. LONGITUDINAL GRADE OF SIDEWALK RAMPS SHALL NOT EXCEED 8.33% (1:12) AND SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
  5. LONGITUDINAL GRADE OF SIDEWALK SHALL NOT EXCEED 5.0% OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER.
  6. ACCESSIBLE ROUTES SHALL BE 5.0% MAX LONGITUDINAL SLOPE AND 1.5% MAX CROSS SLOPE. ACCESSIBLE LOADING AREAS OR LANDINGS SHALL NOT EXCEED 2.0% MAX SLOPE IN ANY DIRECTION. RAMPS SHALL BE 8.33% MAX SLOPE.
  7. NO LAND DISTURBANCE ACTIVITIES SHALL BEGIN UNTIL ALL EROSION CONTROL BMP'S ARE INSTALLED.
  8. SEE DETAIL SHEETS FOR EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE.

- GRADING LEGEND**
- - 820 - - EXISTING MAJOR CONTOURS
  - - 818 - - EXISTING MINOR CONTOURS
  - (820) — PROPOSED MAJOR CONTOURS
  - (818) — PROPOSED MINOR CONTOURS
  - - - - - DITCH CENTERLINE
  - ⇒ DRAINAGE DIRECTION
  - 2.92% PROPOSED SLOPE ARROWS
  - ⊕ 1048.61 EXISTING SPOT ELEVATIONS
  - ⊕ 1048.61 PROPOSED SPOT ELEVATIONS



**NOT FOR CONSTRUCTION**





**UTILITY NOTES:**

- CONTRACTOR TO VERIFY EXISTING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO STARTING WORK.
- SANITARY & STORM SEWER LENGTHS SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. STORM SEWER END SECTIONS ARE INCLUDED IN THE LENGTH AND SLOPE OF THE PIPE.
- CONTRACTOR SHALL INVESTIGATE ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL UTILITY STRUCTURES TO FINISHED GRADE (MANHOLE RIMS, WATER VALVES, AND CURB STOPS), IF NECESSARY.
- FOR ALL SEWER AND WATER MAIN CROSSINGS: PROVIDE MINIMUM 18" SEPARATION WHEN WATER MAIN CROSSES BELOW SEWER AND MINIMUM 6" SEPARATION WHEN WATER MAIN CROSSES ABOVE SEWER.
- IF DEWATERING OPERATIONS EXCEED 70 GALLONS PER MINUTE OF PUMPING CAPACITY, A DEWATERING WELL PERMIT SHALL BE OBTAINED PRIOR TO STARTING ANY DEWATERING ACTIVITIES.
- A COPY OF THE APPROVED UTILITY PLANS, SPECIFICATIONS AND PLUMBING PERMIT APPROVAL LETTER SHALL BE ON-SITE DURING CONSTRUCTION AND OPEN TO INSPECTION BY AUTHORIZED REPRESENTATIVES OF THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES AND OTHER LOCAL INSPECTORS.
- PROPOSED UTILITY SERVICE LINES SHOWN ARE APPROXIMATE. COORDINATE THE EXACT LOCATIONS WITH THE PLUMBING DRAWINGS. COORDINATE THE LOCATION WITH THE PLUMBING CONTRACTOR AND/OR OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO INSTALLATION OF ANY NEW UTILITIES.
- STORM BUILDING SEWER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 384.30-6 OF SPS 384.30(3)(C).
- UNDERGROUND DRAIN AND VENT PIPE/TUBING SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 384.30-2 OF SPS 384.30(2).
- PRIVATE WATER SERVICES AND PRIVATE WATER MAINS SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 384.30-7 OF SPS 384.30(4)(D).
- PRIVATE SANITARY SEWER AND LATERALS SHALL BE POLYVINYL CHLORIDE (PVC) ASTM D3034 - SDR 35 OR APPROVED EQUAL MATERIAL THAT CONFORMS TO ONE OF THE STANDARDS LISTED IN TABLE 384.30-3 OF SPS 384.30(2)(C).
- A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NON METALLIC SEWERS/MAINS AND WATER SERVICES/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED PER SPS 382.10(11)(H) AND SPS 382.40(8)(K).
- EXTERIOR WATER SUPPLY PIPING SETBACKS AND CROSSINGS SHALL BE IN ACCORDANCE WITH SPS 382.40(8)(B.).
- NO PERSON MAY ENGAGE IN PLUMBING WORK IN THE STATE UNLESS LICENSED TO DO SO BY THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES PER S.145.06.
- SITE CONTRACTOR SHALL LEAVE SANITARY AND WATER LATERALS FIVE (5) FEET SHORT (HORIZONTALLY) FROM THE BUILDING. BUILDING PLUMBER SHALL VERIFY SIZE, LOCATION, AND INVERT ELEVATION OF PROPOSED SANITARY AND WATER LATERALS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE EXISTING VALVES WILL HOLD THE PRESSURE TEST PRIOR TO CONNECTION. THE LOCAL MUNICIPALITY IS NOT RESPONSIBLE FOR ANY COSTS INCURRED DUE TO THE CONTRACTOR NOT VERIFYING THAT THE EXISTING VALVE WILL HOLD THE PRESSURE TEST PRIOR TO CONNECTION. IF A NEW VALVE IS REQUIRED, THE APPLICANT WILL BE REQUIRED TO INSTALL ONE AT THEIR EXPENSE, AT THE POINT OF CONNECTION.
- CONTRACTOR TO CHLORINATE AND BACTERIA TEST BEFORE DOMESTIC SUPPLY PURPOSES
- CLEAN OUT ALL EXISTING AND PROPOSED STORM INLETS AND CATCH BASINS AT THE COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH DRY UTILITY COMPANY'S REGARDING ANY POTENTIAL CONFLICTS AND COORDINATE RELOCATIONS AS MAY BE REQUIRED. CONTRACTOR SHALL ALSO COORDINATE THE PROPOSED INSTALLATION OF NEW FACILITIES AS REQUIRED.
- ALL WATER MAIN AND SERVICES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 6.5' FROM TOP OF FINISHED GRADE ELEVATION TO TOP OF MAIN. PROVIDE 1.5' CLEAR SEPARATION IF WATER CROSSES BELOW SEWER AND MINIMUM 0.5' IF WATER CROSSES ABOVE.
- SANITARY MANHOLES WITH SEWER MAIN CONNECTIONS GREATER THAN 2' ABOVE THE LOWEST INVERT SHALL BE CONSTRUCTED WITH AN EXTERNAL DROP. MANHOLES WITH SEWER LATERAL CONNECTIONS GREATER THAN 2' ABOVE THE LOWEST INVERT SHALL BE CONSTRUCTED WITH AN INTERNAL DROP.
- INSTALL 1 SHEET OF 4'X8'X4" HIGH DENSITY STYROFOAM INSULATION AT ALL LOCATIONS WHERE STORM SEWER CROSSES WATER MAIN OR WATER LATERALS.
- CONTRACTOR TO INSTALL BENDS AND CLEANOUTS AS NECESSARY ON WATER AND SEWER LATERALS.

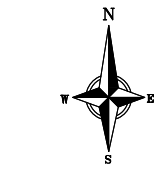
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**PROPOSED UTILITY LEGEND**


- STORM SEWER PIPE
- STORM SEWER MANHOLE
- STORM SEWER ENDWALL
- STORM SEWER CURB INLET
- STORM SEWER CURB INLET W/MANHOLE
- STORM SEWER FIELD INLET
- ROOF DRAIN CLEANOUT
- SANITARY SEWER PIPE (GRAVITY)
- SANITARY SEWER LATERAL PIPE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATER MAIN
- WATER SERVICE LATERAL PIPE
- FIRE HYDRANT
- WATER VALVE
- PROPOSED PIPE INSULATION
- GAS MAIN
- ELECTRIC SERVICE

**ABBREVIATIONS**

STMH	-	STORM MANHOLE
FI	-	FIELD INLET
CI	-	CURB INLET
CB	-	CATCH BASIN
EW	-	ENDWALL
SMH	-	SANITARY MANHOLE



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PROJECT:

ZOR SHRINE WEST  
MADISON, WI

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Date: 06/27/2022

ISSUE	DATE

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UTILITY PLAN

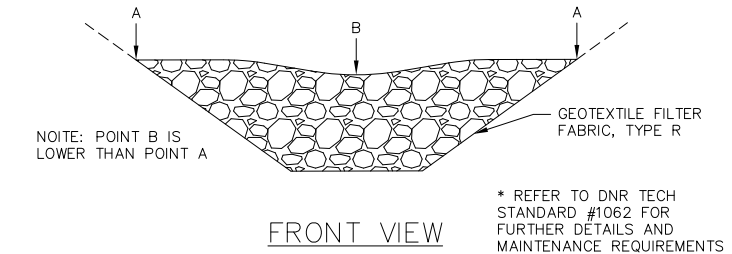
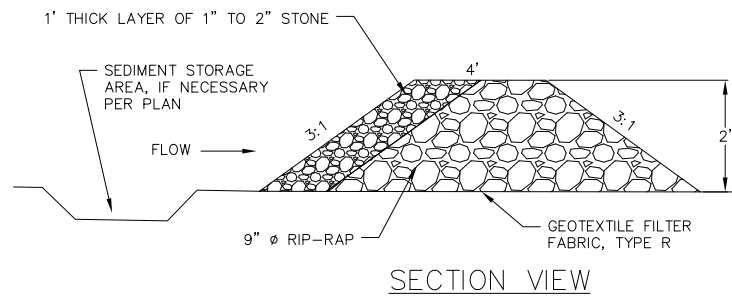
SHEET TITLE

**C600**

SHEET NO.

# EROSION CONTROL MEASURES

- EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE.
- CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARDS (<http://dnr.wi.gov/runoff/stormwater/techstds.htm>) AND WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK.
- INSTALL SEDIMENT CONTROL PRACTICES (TRACKING PAD, PERIMETER SILT FENCE, SEDIMENT BASINS, ETC.) PRIOR TO INITIATING OTHER LAND DISTURBING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED BY THE DNR AND/OR CITY. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
- EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
- A 3" CLEAR STONE TRACKING PAD SHALL BE INSTALLED AT THE END OF ROAD CONSTRUCTION LIMITS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE ADJACENT PAVED PUBLIC ROADWAY. SEDIMENT TRACKING PAD SHALL CONFORM TO WISDNR TECHNICAL STANDARD 1057. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.
- CHANNELIZED RUNOFF: FROM ADJACENT AREAS PASSING THROUGH THE SITE SHALL BE DIVERTED AROUND DISTURBED AREAS.
- STABILIZED DISTURBED GROUND: ANY SOIL OR DIRT PILES WHICH WILL REMAIN IN EXISTENCE FOR MORE THAN 7-CONSECUTIVE DAYS, WHETHER TO BE WORKED DURING THAT PERIOD OR NOT, SHALL NOT BE LOCATED WITHIN 25-FEET OF ANY ROADWAY, PARKING LOT, PAVED AREA, OR DRAINAGE STRUCTURE OR CHANNEL (UNLESS INTENDED TO BE USED AS PART OF THE EROSION CONTROL MEASURES). TEMPORARY STABILIZATION AND CONTROL MEASURES (SEEDING, MULCHING, TARPING, EROSION MATTING, BARRIER FENCING, ETC.) ARE REQUIRED FOR THE PROTECTION OF DISTURBED AREAS AND SOIL PILES, WHICH WILL REMAIN UN-WORKED FOR A PERIOD OF MORE THAN 14-CONSECUTIVE CALENDAR DAYS. THESE MEASURES SHALL REMAIN IN PLACE UNTIL SITE HAS STABILIZED.
- SITE DE-WATERING: WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROL MEASURES. SEDIMENTATION BASINS SHALL HAVE A DEPTH OF AT LEAST 3 FEET, BE SURROUNDED BY SNOWFENCE OR EQUIVALENT BARRIER AND HAVE SUFFICIENT SURFACE AREA TO PROVIDE A SURFACE SETTLING RATE OF NO MORE THAN 750 GALLONS PER SQUARE FOOT PER DAY AT THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, A NEIGHBORING SITE, OR THE BED OR BANKS OF THE RECEIVING WATER. POLYMERS MAY BE USED AS DIRECTED BY DNR TECHNICAL STANDARD 1061 (DE-WATERING).
- WASHED STONE WEEPERS OR TEMPORARY EARTH BERMS SHALL BE BUILT PER PLAN BY CONTRACTOR TO TRAP SEDIMENT OR SLOW THE VELOCITY OF STORM WATER.
- SEE GRADING AND EROSION CONTROL PLAN FOR RIP-RAP SIZING. IN NO CASE WILL RIP-RAP BE SMALLER THAN 3" TO 6".
- INLET FILTERS ARE TO BE PLACED IN STORMWATER INLET STRUCTURES AS SOON AS THEY ARE INSTALLED. THE FILTERS SHALL BE MAINTAINED UNTIL THE DISTURBED AREAS ARE BOTH 70% RESTORED AND PAVED.
- RESTORATION (SEED, FERTILIZE AND MULCH) SHALL BE PER SPECIFICATIONS ON THIS SHEET UNLESS SPECIAL RESTORATION IS CALLED FOR ON THE LANDSCAPE PLAN.
- SEED, FERTILIZER AND MULCH SHALL BE APPLIED WITHIN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED. IF DISTURBED AREAS WILL NOT BE RESTORED IMMEDIATELY AFTER ROUGH GRADING, TEMPORARY SEED SHALL BE PLACED.
- FOR THE FIRST SIX WEEKS AFTER RESTORATION (E.G. SEED & MULCH, EROSION MAT, SOD) OF A DISTURBED AREA, INCLUDE SUMMER WATERING PROVISIONS OF ALL NEWLY SEEDED AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
- EROSION MAT (CLASS I, TYPE B PER WISCONSIN D.O.T. P.A.L.) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER BUT LESS THAN 1:1.
- SOIL STABILIZERS SHALL BE APPLIED TO DISTURBED AREAS WITH SLOPES BETWEEN 10% AND 3:1 (DO NOT USE IN CHANNELS). SOIL STABILIZERS SHALL BE TYPE B, PER WISCONSIN D.O.T. P.A.L. (PRODUCT ACCEPTABILITY LIST), OR EQUAL. APPLY AT RATES AND METHODS SPECIFIED PER MANUFACTURER. SOIL STABILIZERS SHALL BE RE-APPLIED WHENEVER VEHICLES OR OTHER EQUIPMENT TRACK ON THE AREA.
- SILT FENCE OR EROSION MAT SHALL BE INSTALLED ALONG THE CONTOURS AT 100 FOOT INTERVALS DOWN THE SLOPE ON THE DISTURBED SLOPES STEEPER THAN 5% AND MORE THAN 100 FEET LONG THAT SHEET FLOW TO THE ROADWAY UNLESS SOIL STABILIZERS ARE USED.
- SILT FENCE TO BE USED ACROSS AREAS OF THE LOT THAT SLOPE TOWARDS A PUBLIC STREET OR WATERWAY. SEE DETAILS.
- SEDIMENT SHALL BE CLEANED FROM CURB AND GUTTER AFTER EACH RAINFALL AND PRIOR TO PROJECT ACCEPTANCE.
- ACCUMULATED CONSTRUCTION SEDIMENT SHALL BE REMOVED FROM ALL PERMANENT BASINS TO THE ELEVATION SHOWN ON THE GRADING PLAN FOLLOWING THE STABILIZATION OF DRAINAGE AREAS.
- ALL CONSTRUCTION ENTRANCES SHALL HAVE TEMPORARY ROAD CLOSED SIGNS THAT WILL BE IN PLACE WHEN THE ENTRANCE IS NOT IN USE AND AT THE END OF EACH DAY.
- ANY PROPOSED CHANGES TO THE EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY AND STATE.
- THE CITY, OWNER AND/OR ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME DURING CONSTRUCTION.
- THE CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ONTO ADJACENT ROADS BY MEANS OF STREET SWEEPING (NOT FLUSHING) AT A MINIMUM OF THE END OF EACH WORK DAY OR MORE AS NEEDED.



1 **STONE WEEPER**  
1 NOT TO SCALE

**SEEDING RATES:**

**TEMPORARY:**

- USE ANNUAL OATS AT 3.0 LB./1,000 S.F. FOR SPRING AND SUMMER PLANTINGS.
- USE WINTER WHEAT OR RYE AT 3.0 LB./1,000 SF FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 15.

**PERMANENT:**  
SEE LANDSCAPE PLAN.

**FERTILIZING RATES:**

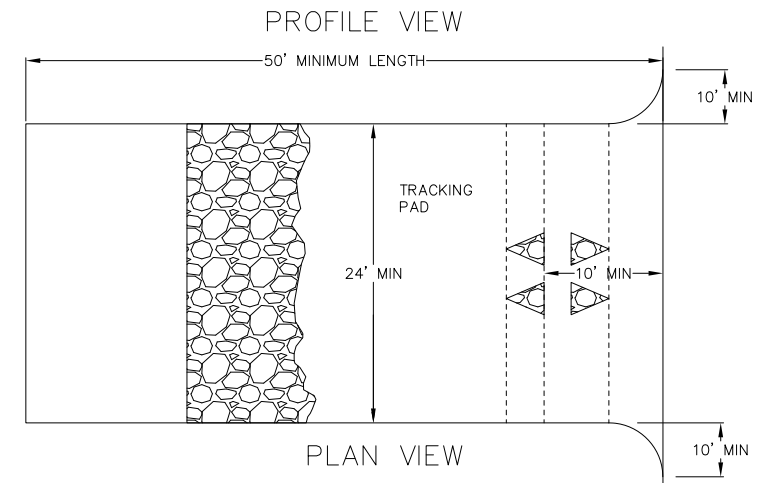
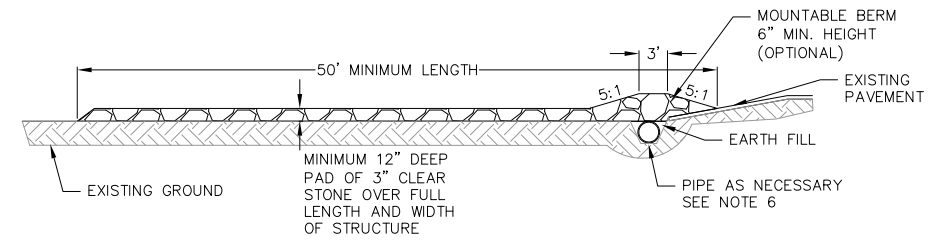
**TEMPORARY AND PERMANENT:**  
USE WISCONSIN D.O.T. TYPE A OR B AT 7 LB./1,000 S.F.

**MULCHING RATES:**

**TEMPORARY AND PERMANENT:**  
USE 1/2" TO 1-1/2" STRAW OR HAY MULCH, CRIMPED PER SECTION 607.3.2.3, OR OTHER RATE AND METHOD PER SECTION 627, WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION

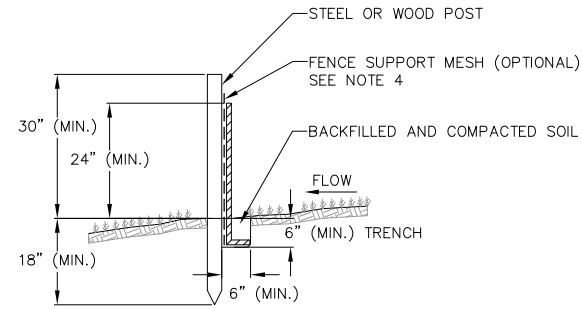
**CONSTRUCTION SEQUENCE:**

- INSTALL EROSION CONTROL MEASURES
- CONDUCT DEMOLITION
- STRIP TOPSOIL (UNWORKED AREAS MAY REMAIN NON-STABILIZED FOR A MAXIMUM OF 14 DAYS)
- ROUGH GRADE SITE
- CONSTRUCT UNDERGROUND UTILITIES
- INSTALL INLET PROTECTION IN NEW INLETS
- CONSTRUCT BUILDING
- CONSTRUCT PAVEMENT
- FINAL GRADE AND PERMANENTLY RESTORE DISTURBED AREAS
- REMOVE EROSION CONTROL MEASURES AFTER DISTURBED AREAS ARE 70% RESTORED OR PAVED.



- FOLLOW WISCONSIN DNR TECHNICAL STANDARD 1057 FOR FURTHER DETAILS AND INSTALLATION.
- LENGTH - MINIMUM OF 50'.
- WIDTH - 24' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- ON SITES WITH A HIGH GROUNDWATER TABLE OR WHERE SATURATED CONDITIONS EXIST, GEOTEXTILE FABRIC SHALL BE PLACED OVER EXISTING GROUND PRIOR TO PLACING STONE. FABRIC SHALL BE WISDOT TYPE-HR GEOTEXTILE FABRIC.
- STONE - CRUSHED 3" CLEAR STONE SHALL BE PLACED AT LEAST 12" DEEP OVER THE ENTIRE LENGTH AND WIDTH OF ENTRANCE.
- SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARDS CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND MINIMUM OF 6" STONE OVER THE PIPE. PIPE SHALL BE SIZED ACCORDING TO THE DRAINAGE REQUIREMENTS. WHEN THE ENTRANCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE SHALL NOT BE NECESSARY. THE MINIMUM PIPE DIAMETER SHALL BE 6". CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SAID PIPE.
- LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED WHERE CONSTRUCTION TRAFFIC ENTERS AND/OR LEAVES THE CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE TRACKING PAD.

1 **TRACKING PAD**  
1 NOT TO SCALE



1 **SILT FENCE**  
1 NOT TO SCALE

- NOTES:**
- INSTALL SILT FENCE TO FOLLOW THE GROUND CONTOURS AS CLOSELY AS POSSIBLE.
  - CURVE THE SILT FENCE UP THE SLOPE TO PREVENT WATER FROM RUNNING AROUND THE ENDS.
  - POST SPACING WITH FENCE SUPPORT MESH = 10 FT. (MAX.)  
POST SPACING WITHOUT FENCE SUPPORT MESH = 6 FT. (MAX.)
  - SILT FENCE SUPPORT MESH CONSISTS OF 14-GAUGE STEEL WIRE WITH A MESH SPACING OF 6 IN. X 6 IN. OR PREFABRICATED POLYMERIC MESH OF EQUIVALENT STRENGTH

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CIVIL ENGINEER

PROJECT:

ZOR SHRINE WEST  
MADISON, WI

Date: 06/27/2022

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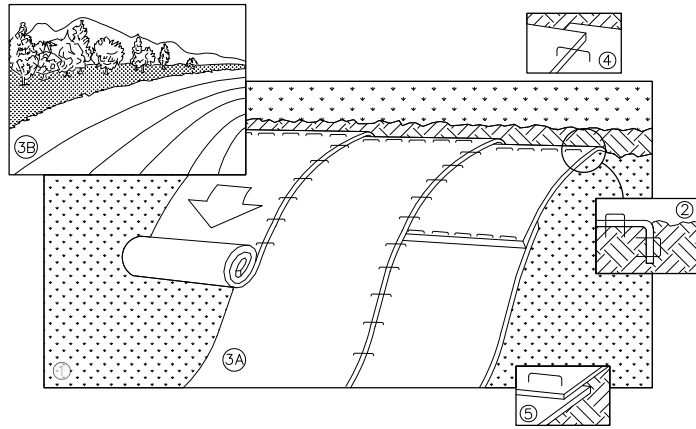
CONSTRUCTION  
DETAILS - 1

SHEET TITLE

C700

SHEET NO.

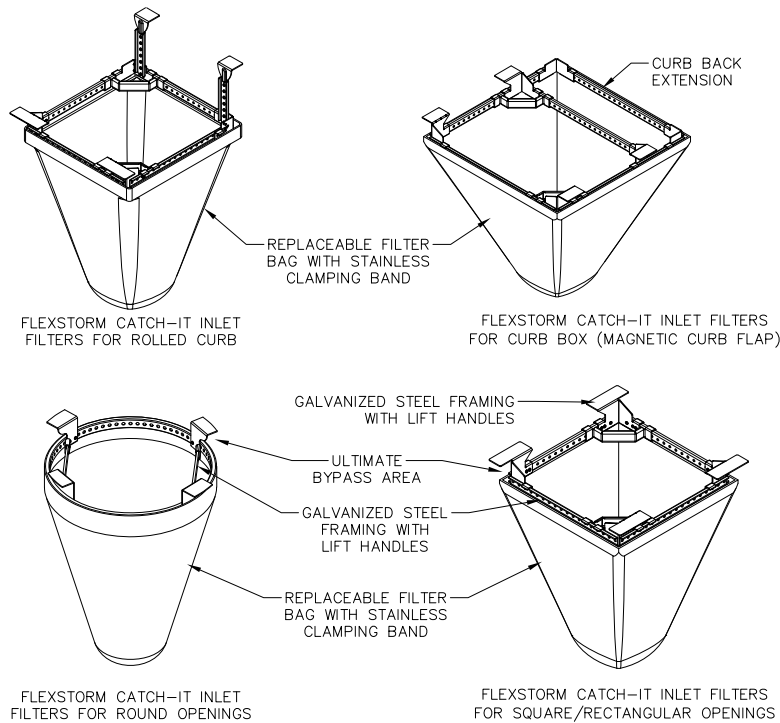




NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED.  
NOTE: WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. ROLL THE BLANKETS <A.> DOWN, OR <B.> HORIZONTALLY ACROSS THE SLOPE.
3. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
4. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
5. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.

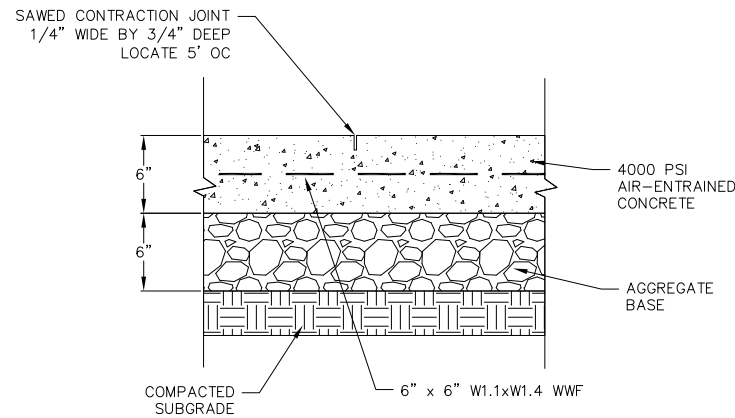
1 EROSION MAT  
1 NOT TO SCALE



NOTES:

1. INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.
2. WHEN REMOVING OR MAINTAINING INLET PROTECTION, ANY TRAPPED MATERIAL THAT FALLS INTO THE INLET SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR.

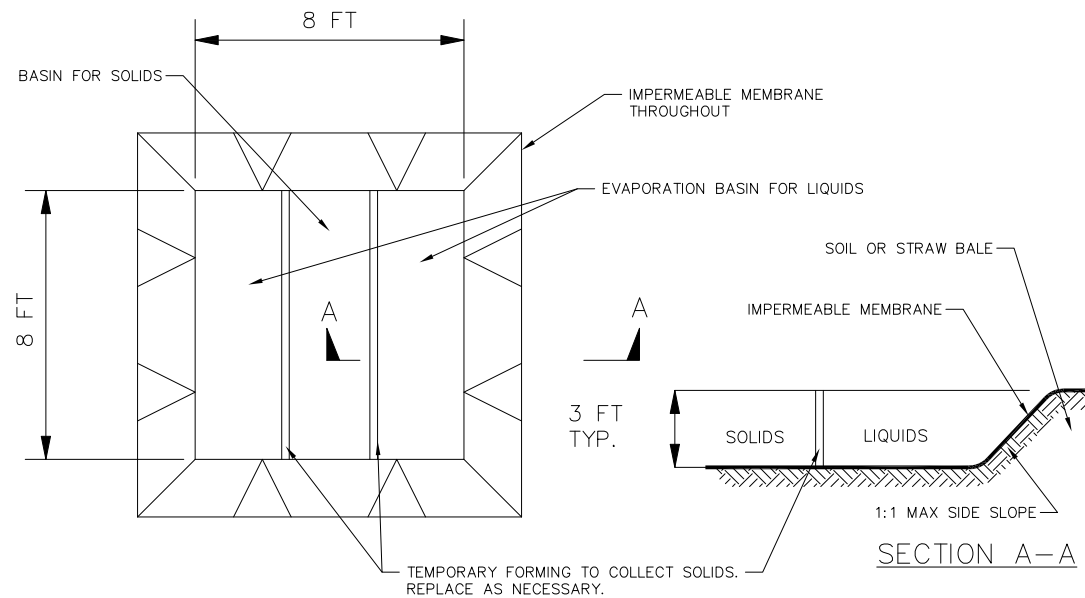
1 FRAMED INLET PROTECTION  
1 NOT TO SCALE



1 CONCRETE PAD  
1 NOT TO SCALE

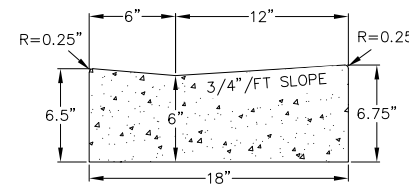
CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
3. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

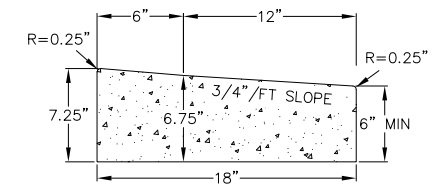


PLAN

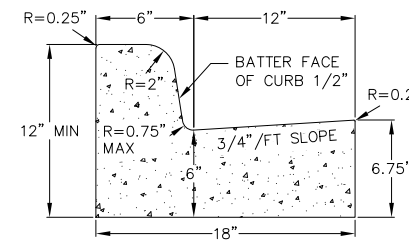
1 TEMPORARY CONCRETE WASHOUT  
1 NOT TO SCALE



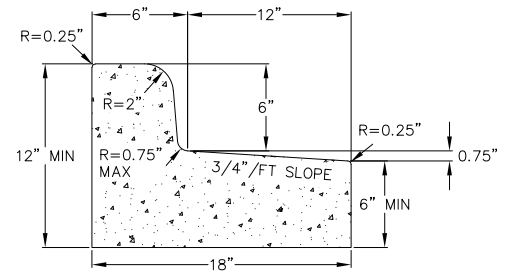
ACCESS RAMP  
GUTTER CROSS SECTION



ACCESS RAMP  
GUTTER REJECT SECTION

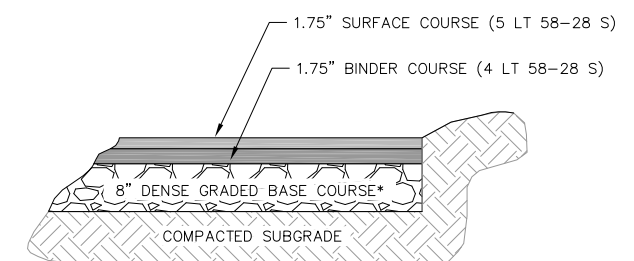


CURB AND GUTTER  
CROSS SECTION



CURB AND GUTTER  
REJECT SECTION

1 18\"/>

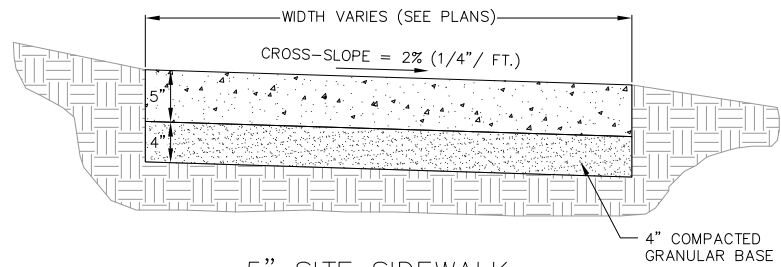


\*THE UPPER 4\"/>

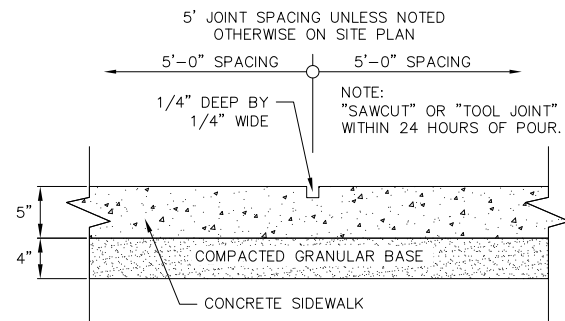
1 SITE PAVEMENT  
1 NOT TO SCALE

**NOT FOR CONSTRUCTION**

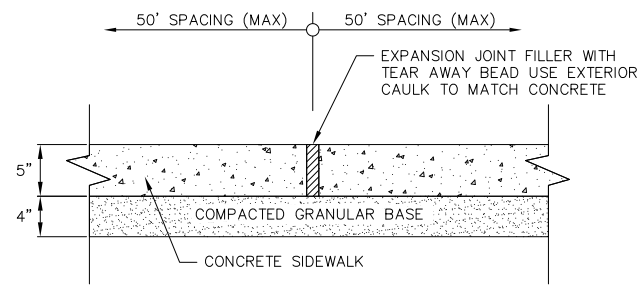




5" SITE SIDEWALK

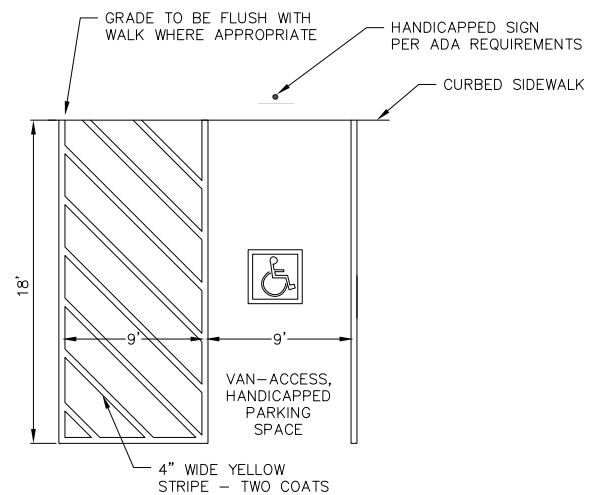


SIDEWALK CONTROL JOINT

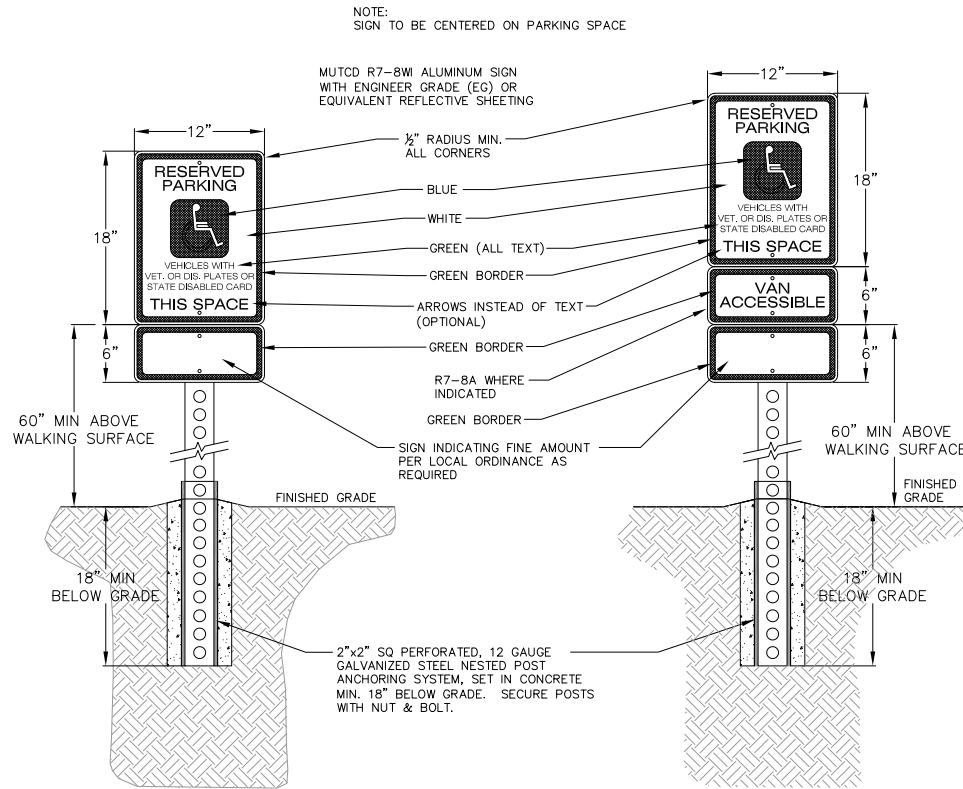


SIDEWALK EXPANSION JOINT

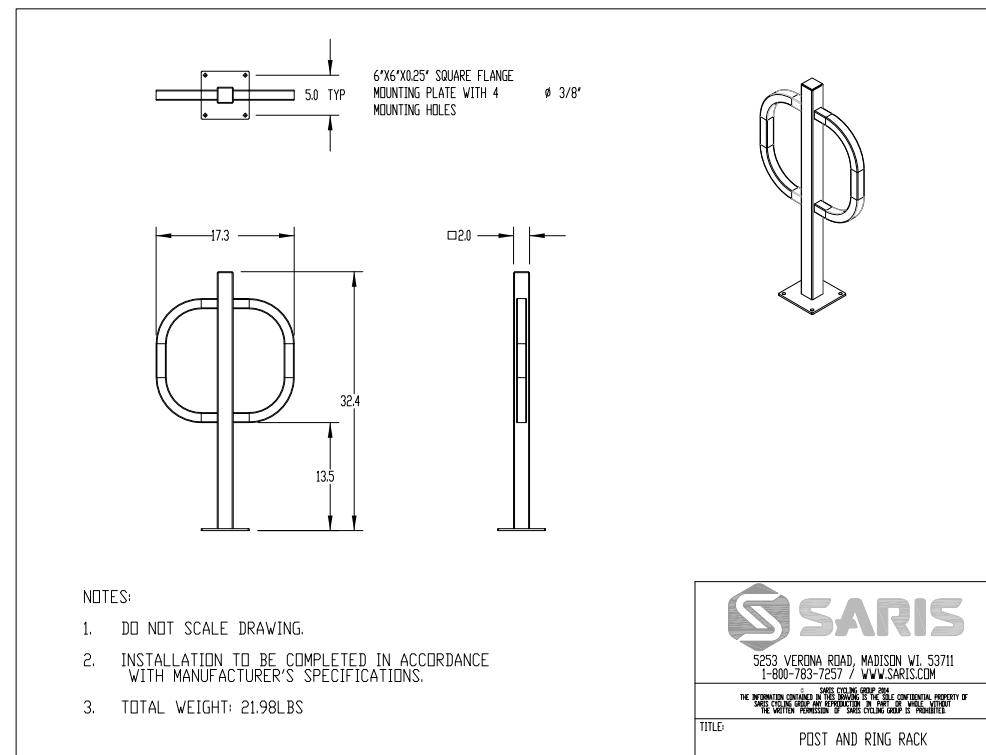
1 5" SIDEWALK  
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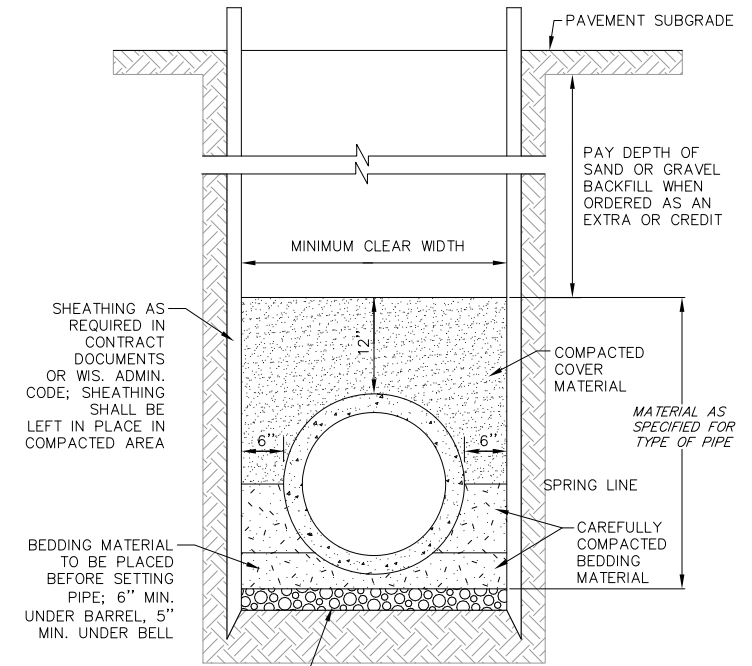
1 HANDICAP STRIPING  
1 NOT TO SCALE



1 ADA SIGN  
1 NOT TO SCALE



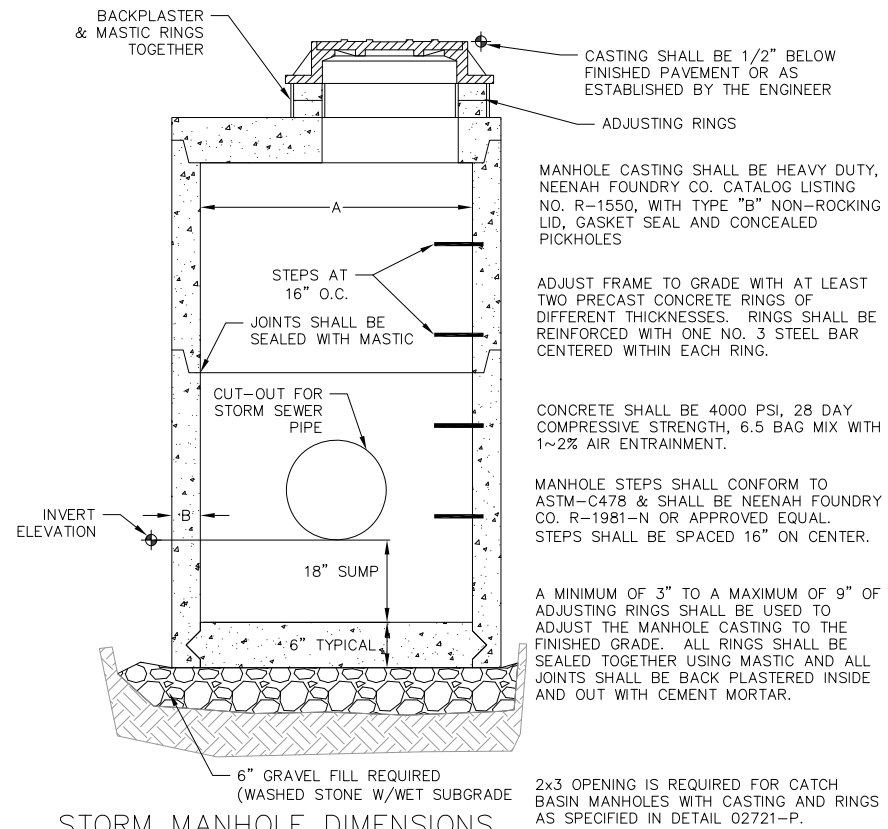
1 BIKE RACK DETAIL  
1 NOT TO SCALE



SANITARY SEWER (CLASS 'C' BEDDING):  
BEDDING: CLASS 1; 3/8" TO 1 1/2" CLEAR STONE  
COVER: 3/8" TO 1 1/2" CLEAR STONE  
WATERMAIN (TYPE 3 EMBEDMENT):  
BEDDING: SAND OR SAND SCREENINGS  
COVER: SAND OR SAND SCREENINGS  
STORM SEWER (CLASS 'B' BEDDING):  
BEDDING: CLASS 1; 3/8" TO 1 1/2" CLEAR STONE  
COVER: NATIVE OR GRANULAR BACKFILL AS REQ'D

1 STANDARD TRENCH SECTION  
1 NOT TO SCALE

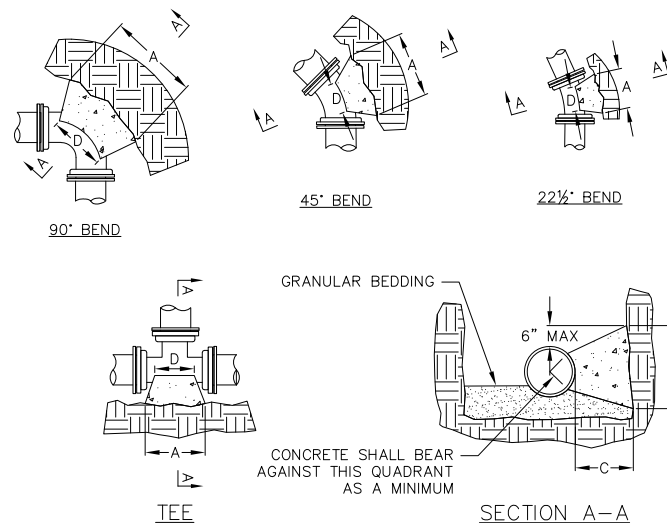
NOT FOR CONSTRUCTION



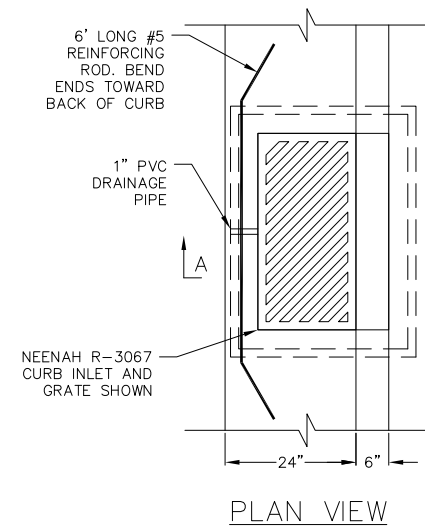
STORM MANHOLE DIMENSIONS

MANHOLE SIZE	DIMENSION	
	A	B (MIN.)
48"	48"	5"
60"	60"	6"
72"	72"	7"
84"	84"	7"
96"	96"	9"

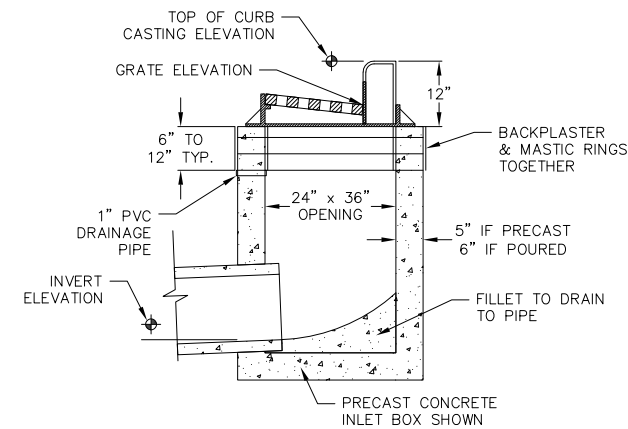
1 STORM SEWER MANHOLE CATCH BASIN  
1 NOT TO SCALE



1 BUTTRESS FOR BENDS  
1 NOT TO SCALE



PLAN VIEW



SECTION A-A

1 RECTANGULAR STREET INLET  
1 NOT TO SCALE

NOTES:  
- TOP OF CURB AND PIPE INVERT ELEVATIONS ARE SHOWN ON THE PLANS.

- THE GRATE ELEVATION SHALL BE DEPRESSED 0.1' FROM STRAIGHT GUTTER GRADE STARTING 5' FROM THE INLET AND EXTENDING IN BOTH DIRECTIONS.

- THE CASTING SHALL BE NEENAH FOUNDRY R-3067 CURB INLET WITH REVERSIBLE GRATES WHERE RUNOFF REACHES THE INLET FROM BOTH DIRECTIONS. WHERE RUNOFF REACHES THE INLET FROM ONE DIRECTION A NEENAH R-3067-L CASTING SHALL BE USED. DIRECTIONAL SLOTS TO BE LOCATED TO DIRECT THE FLOW INTO THE STREET INLET.

- FRAME ADJUSTING RINGS SHALL BE AT LEAST TWO CONCRETE RINGS OF VARIABLE THICKNESS. MASTIC BETWEEN RINGS AND BACKPLASTER A SMOOTH LAYER OF GROUT OVER THE ENTIRE INNER AND OUTER SURFACES OF THE RINGS.

DIMENSION "D" SHALL BE AS LARGE AS POSSIBLE, BUT THE CONCRETE SHALL NOT INTERFERE WITH THE MECHANICAL JOINTS.

DIMENSION "C" SHALL BE AT LEAST 6 INCHES, AND LARGE ENOUGH TO MAKE THE "Q" ANGLE EQUAL TO OR GREATER THAN 45 DEGREES WITH THE DIMENSION "A" AS SHOWN ON THE TABLE, OR GREATER, AND WITH DIMENSION "D" AS LARGE AS POSSIBLE.

CONCRETE SHALL BE CLASS "C", SEE SECTION 03301

PIPE SIZE	BUTTRESS DIMENSIONS							
	TEES		22.5° BEND		45° BEND		90° BEND	
	A	B	A	B	A	B	A	B
4	0'-10"	1'-6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
6	1'-6"	1'-8"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"
8	1'-9"	2'-4"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"
10	1'-9"	2'-4"	1'-10"	1'-8"	2'-6"	2'-4"	3'-10"	2'-10"
12	2'-3"	1'-7"	2'-4"	2'-0"	3'-3"	2'-10"	5'-0"	3'-4"
16	3'-8"	2'-10"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"
20	5'-0"	3'-10"	3'-6"	3'-0"	5'-4"	3'-10"	8'-0"	4'-8"
24	5'-4"	4'-8"						

DIMENSIONS IN THE TABLE ARE BASED ON A WATER PRESSURE OF 150 PSI AND SOIL RESISTANCE OF 2000 LBS/SQ FT

\* = FOR TEE THIS WILL BE THE BRANCH PIPE

NOT FOR CONSTRUCTION

**PLANT MATERIAL NOTES:**

- ALL PLANTINGS SHALL CONFORM TO QUALITY REQUIREMENTS AS PER ANSI Z60.1.
- ALL PLANT MATERIAL SHALL BE TRUE TO SPECIES, VARIETY AND SIZE SPECIFIED, NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES, AND UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF THE PROJECT SITE.
- CONTACT LANDSCAPE ARCHITECT, IN WRITING, TO REQUEST ANY PLANT MATERIAL SUBSTITUTIONS DUE TO AVAILABILITY ISSUES.
- ALL PLANTS SHALL BE GUARANTEED TO BE IN HEALTHY AND FLOURISHING CONDITION DURING THE GROWING SEASON FOLLOWING INSTALLATION. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM THE TIME OF INSTALLATION.

**LANDSCAPE MATERIAL NOTES:**

- CONTRACTOR SHALL PROVIDE A SUITABLE AMENDED TOPSOIL BLEND FOR ALL PLANTING AREAS WHERE SOIL CONDITIONS ARE UNSUITABLE FOR PLANT GROWTH. TOPSOIL SHALL CONFORM TO QUALITY REQUIREMENTS AS PER SECTION 625.2(1) OF THE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION." PROVIDE A MINIMUM OF 18" OF TOPSOIL IN ALL PLANTING AREAS AND 6" OF TOPSOIL IN AREAS TO BE SEEDED/SODDED.
- LANDSCAPE BEDS TO BE MULCHED WITH UNDYED SHREDDED HARDWOOD BARK MULCH TO 3" DEPTH MIN. AND EDGED WITH COMMERCIAL GRADE ALUMINUM LANDSCAPE EDGING, PERMALOC CLEANLINE 3/8"x4" OR EQUAL, COLOR BLACK ANODIZED.
- ALL TREES AND/OR SHRUBS PLANTED IN LAWN AREAS TO BE INSTALLED WITH A 5' DIAMETER MULCH RING AND SHOVEL CUT EDGE. A PRE-EMERGENT GRANULAR HERBICIDE WEED-PREVENTER SHOULD BE MIXED WITH MULCH AS WELL AS TOPICALLY APPLIED TO TREE RING.

**SEEDING AND PLUG PLANTING NOTES:**

- ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, TO BE SEEDED WITH 'MADISON PARKS' MIX BY 'LACROSSE SEED COMPANY' OR EQUIVALENT, PER MANUFACTURER'S SPECIFIED APPLICATION RATES. ALL SEEDED AREAS ARE TO BE WATERED DAILY TO MAINTAIN ADEQUATE SOIL MOISTURE FOR PROPER GERMINATION. AFTER VIGOROUS GROWTH IS ESTABLISHED, APPLY 1/2" WATER TWICE WEEKLY UNTIL FINAL ACCEPTANCE.

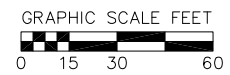
City of Madison Landscape Worksheet						
Address:	575 Zor Shrine Pl	Date:	06.27.2022			
Total Square Footage of Developed Area:	77,828	-	37,505	=	40,323	sf
	(Site Area)		(Building Footprint at Grade)			
Total Landscape Points Required (<5 ac):	40,323	/ 300 =	134	x 5 =	672	
Landscape Points Required >5 ac:		/ 100 =	0	x 1 =	-	<b>672</b>
Plant Type/ Element	Min. Size at Installation	Points	Credits/ Existing Landscaping		New/ Proposed Landscaping	
			Quantity	Points Achieved	Quantity	Points Achieved
Overstory deciduous tree	2.5" cal	35		0	13	455
Tall Evergreen Tree	5-6 feet tall	35		0	0	0
Ornamental tree	1.5" cal	15		0	14	210
Upright evergreen shrub	3-4 feet tall	10		0	44	440
Shrub, deciduous	#3 gallon	3		0	45	135
Shrub, evergreen	#3 gallon	4		0	37	148
Ornamental grasses/perennials	#1 gallon	2		0	135	270
Ornamental/decorative fencing or wall	n/a	4 per 10 LF		0	0	0
Existing significant specimen tree	Min. Size 2.5" cal.	14 per caliper inch.		0	0	0
Landscape Furniture for public seating and/or transit connections		5 points per "seat"		0	0	0
<b>Sub Totals</b>				0	1658	
				<b>Total Points Provided:</b>	<b>1658</b>	

**GROUNDCOVER SCHEDULE**

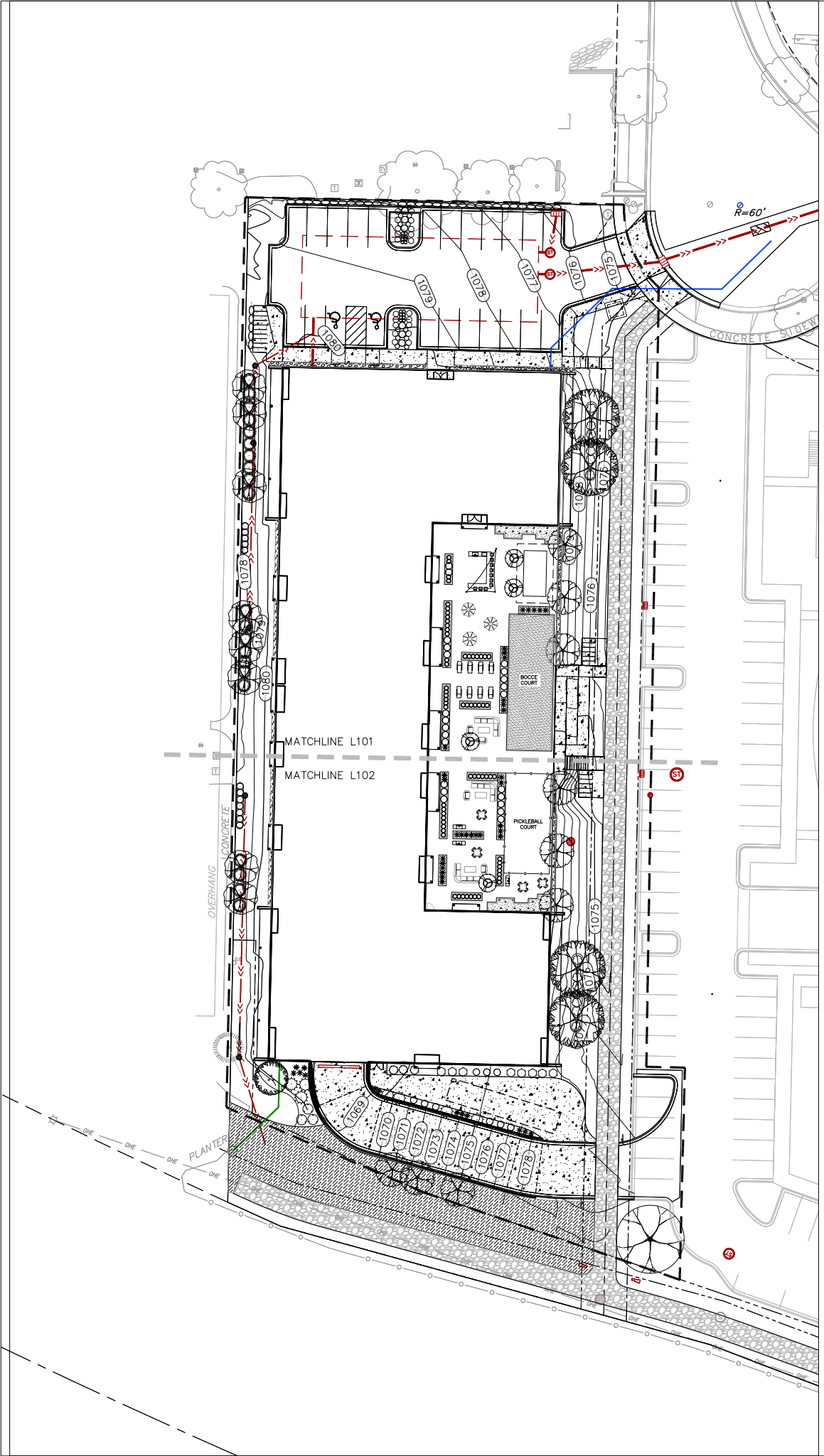
	SHORTGRASS PRAIRIE SEED MIX	4,613 sf
	ROOF DECK PLANTER- LOW MIX	247 sf
	STONE MAINTENANCE STRIP	598 sf
	DECOMPOSED GRANITE BOCCIE SURFACE	1,121 sf

**PLANT SCHEDULE**

CANOPY TREES	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	NOTES	QTY
AA	Acer x freemanii 'Armstrong' / Armstrong Freeman Maple	B & B	2.5" Cal		8
GT	Gleditsia triacanthos inermis 'Shademaster' TM / Shademaster Locust	B & B	2.5" Cal		4
QB	Quercus bicolor / Swamp White Oak	B & B	2.5" Cal		1
UNDERSTORY TREES	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	NOTES	QTY
AG	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Apple Serviceberry	B & B	6' ht.	Multi-Stem	1
MF	Malus sargentii 'Select A' TM / Firebird Sargent Crabapple	Cont.	10 gal		4
MC	Malus x 'Cardinal' / Cardinal Crabapple	B & B	1.5" Cal		2
MM	Malus x 'Malusquest' TM / Pink Sparkles Crabapple	B & B	1.5" Cal		2
MP	Malus x 'Prairie Maid' / Prairie Maid Crabapple	B & B	1.5" Cal		2
MS	Malus x 'Spring Snow' / Spring Snow Crabapple	B & B	1.5" Cal		3
DECIDUOUS SHRUBS	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	NOTES	QTY
DI	Diervilla lonicera / Dwarf Bush Honeysuckle	Cont.	3 Gal.		14
Hpj	Hydrangea paniculata 'Jane' TM / Little Lime Hydrangea	Cont.	5 Gal.		8
Sj	Spiraea japonica 'Magic Carpet' / Magic Carpet Spirea	Cont.	3 Gal.		20
Vd	Viburnum dentatum 'Little Joe' / Little Joe Viburnum	Cont.	5 Gal.		3
EVERGREEN SHRUBS	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	NOTES	QTY
Jp	Juniperus procumbens 'Nana' / Dwarf Japanese Garden Juniper	Cont.	5 Gal.		7
Js	Juniperus sabinia 'Blue Forest' / Blue Forest Juniper	Cont.	5 Gal.		3
Tt	Taxus x media 'Tauntonii' / Tauntoni's Anglo-Japanese Yew	Cont.	5' ht.		21
Tom	Thuja occidentalis 'Hetz Midget' / Hetz Midget Arborvitae	Cont.	5 Gal.		6
Toh	Thuja occidentalis 'Holmstrup' / Holmstrup Cedar	B & B	5' ht.		44
PERENNIALS	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	NOTES	QTY
am	Amsonia x 'Blue Ice' / Blue Ice Bluestar	Cont.	1 Gal.		12
ca	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	Cont.	1 Gal.		63
pvs	Panicum virgatum 'Shenandoah' / Shenandoah Red Switch Grass	Cont.	1 Gal.		44
ss	Schizachyrium scoparium / Little Bluestem Grass	Cont.	1 Gal.		16



**NOT FOR CONSTRUCTION**



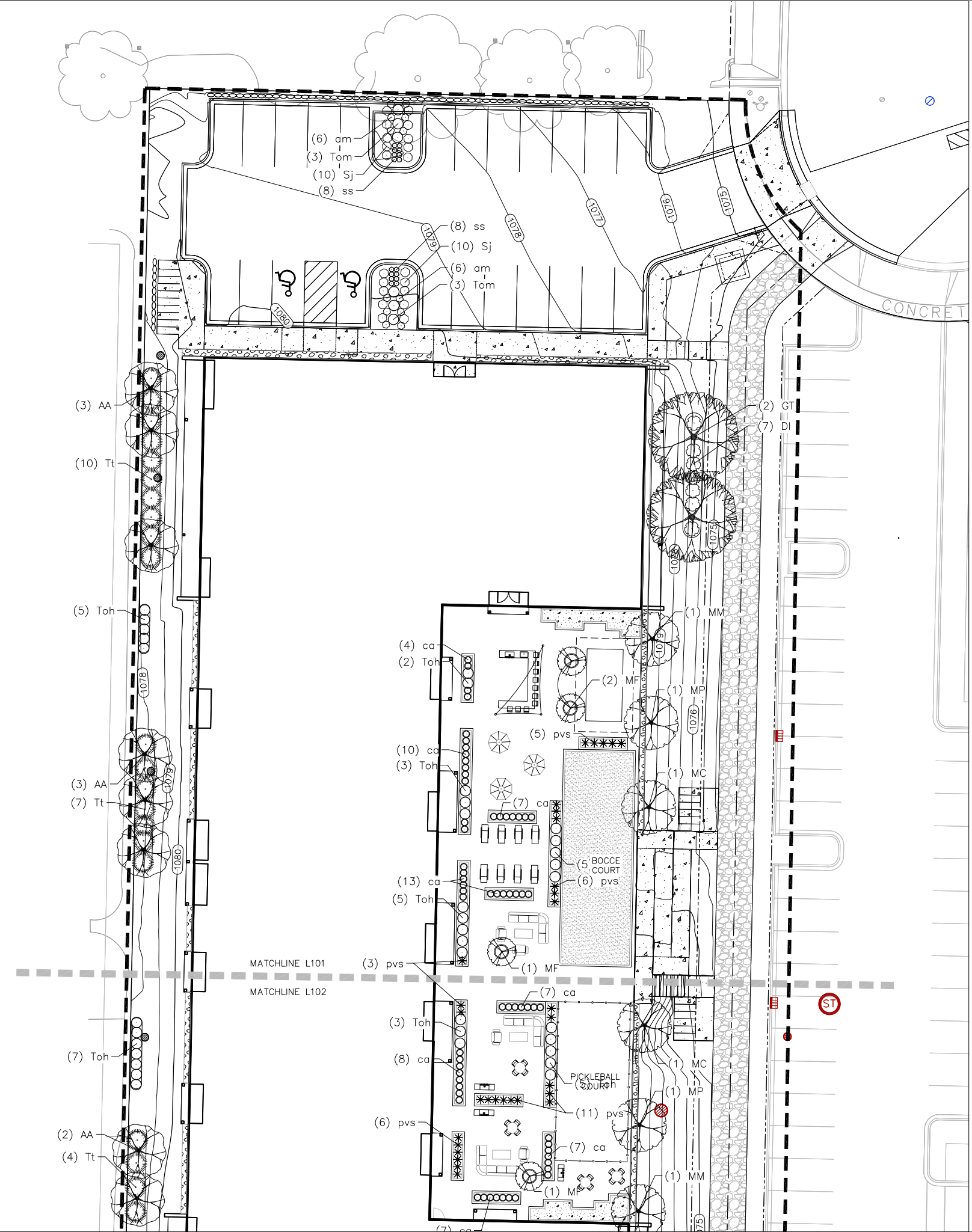


PLANT SCHEDULE

CANOPY TREES	BOTANICAL / COMMON NAME
GT	Gleditsia triacanthos 'inermis' 'Shademaster' TM / Shademaster Locust
QB	Quercus bicolor / Swamp White Oak
UNDERSTORY TREES	BOTANICAL / COMMON NAME
AG	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Apple Serviceberry
MF	Malus sargentii 'Select A' TM / Firebird Sargent Crabapple
MC	Malus x 'Cardinal' / Cardinal Crabapple
MM	Malus x 'Malusquest' TM / Pink Sparkles Crabapple
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Sj	Spiraea japonica 'Magic Carpet' / Magic Carpet Spirea
Vd	Viburnum dentatum 'Little Joe' / Little Joe Viburnum
EVERGREEN SHRUBS	BOTANICAL / COMMON NAME
Jp	Juniperus procumbens 'Nana' / Dwarf Japanese Garden Juniper
Js	Juniperus sabina 'Blue Forest' / Blue Forest Juniper
Tom	Thuja occidentalis 'Hetz Midget' / Hetz Midget Arborvitae
Toh	Thuja occidentalis 'Holmstrup' / Holmstrup Cedar
PERENNIALS	BOTANICAL / COMMON NAME
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ss	Schizachyrium scoparium / Little Bluestem Grass

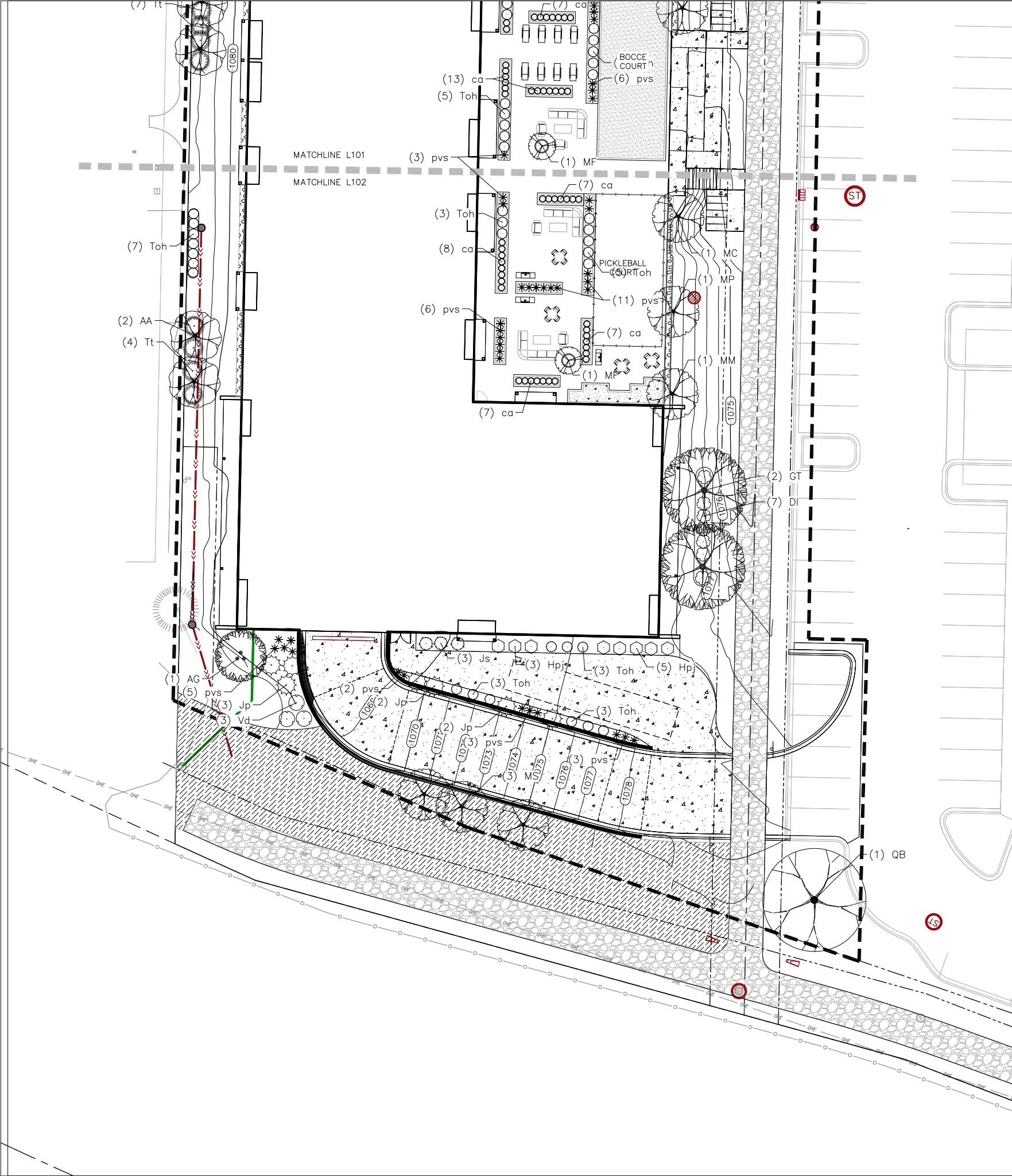
GROUNDCOVER SCHEDULE

	SHORTGRASS PRAIRIE SEED MIX
	ROOF DECK PLANTER- LOW MIX
	STONE MAINTENANCE STRIP
	DECOMPOSED GRANITE BOCCIE SURFACE



**NOT FOR CONSTRUCTION**



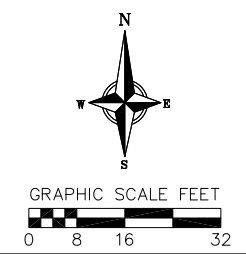


PLANT SCHEDULE

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MM	Malus x 'Malusquest' TM / Pink Sparkles Crabapple
MP	Malus x 'Prairie Maid' / Prairie Maid Crabapple
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DECIDUOUS SHRUBS	BOTANICAL / COMMON NAME
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pvs	Panicum virgatum 'Shenandoah' / Shenandoah Red Switch Grass
ss	Schizachyrium scoparium / Little Bluestem Grass

GROUNDCOVER SCHEDULE

	SHORTGRASS PRAIRIE SEED MIX
	ROOF DECK PLANTER- LOW MIX
	STONE MAINTENANCE STRIP
	DECOMPOSED GRANITE BOCCE SURFACE



**NOT FOR CONSTRUCTION**

**AWH**  
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 alex@awharchitects.com  
 612-568-6383  
 ARCHITECT

STRUCTURAL ENGINEER  
  
 999 Foucher Dr., Suite 201  
 Madison, WI 53717  
 608-826-0532  
 CIVIL/EA ENGINEER

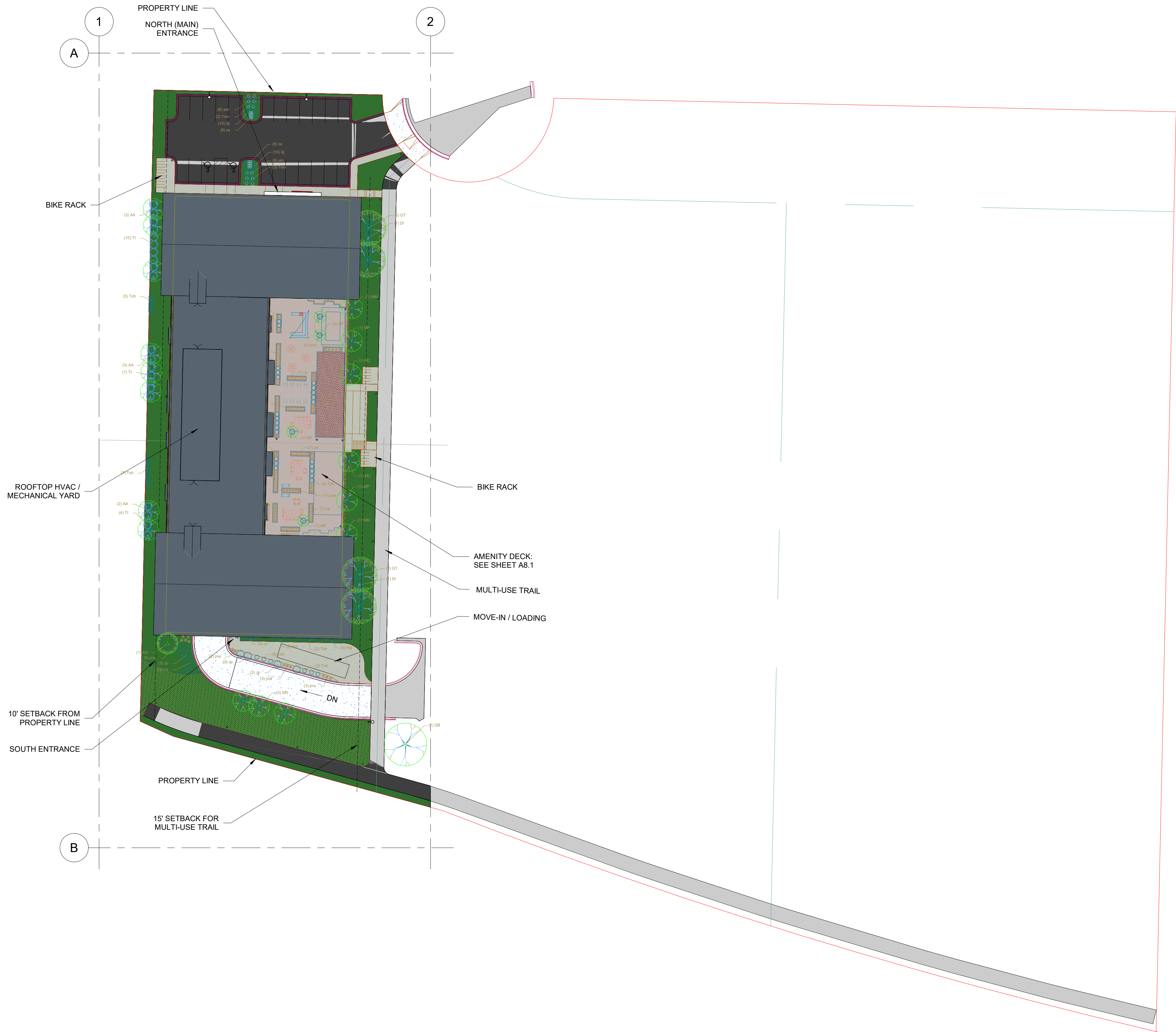
PROJECT:  
 ZOR SHRINE WEST  
 MADISON, WI

Date: 06/27/2022

ISSUE	DATE

LANDSCAPE SOUTH  
 SHEET TITLE  
 L102  
 SHEET NO.

ISSUE	DATE

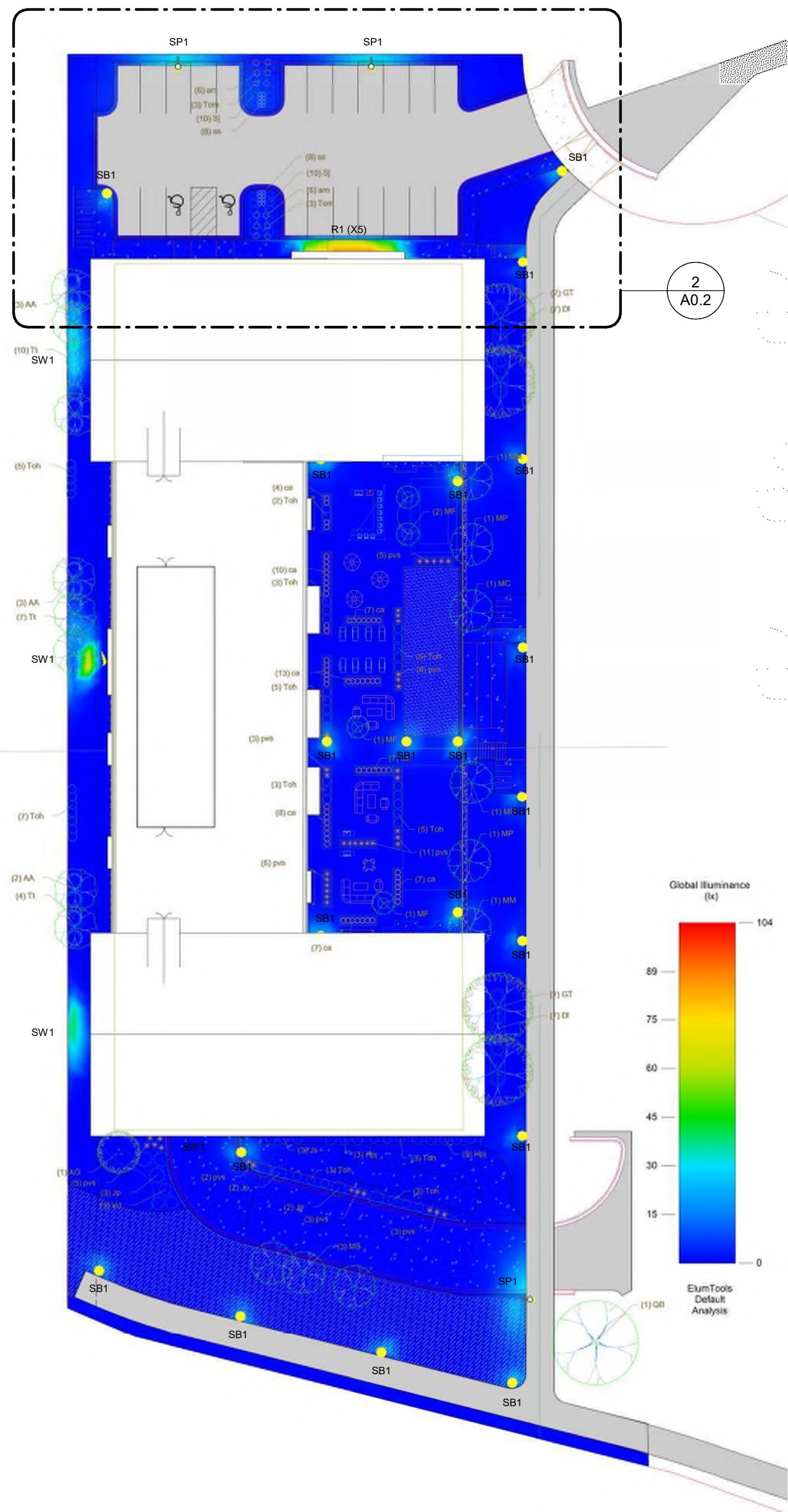


**1** ARCHITECTURAL SITE PLAN  
 A0.1 1" = 40'-0"

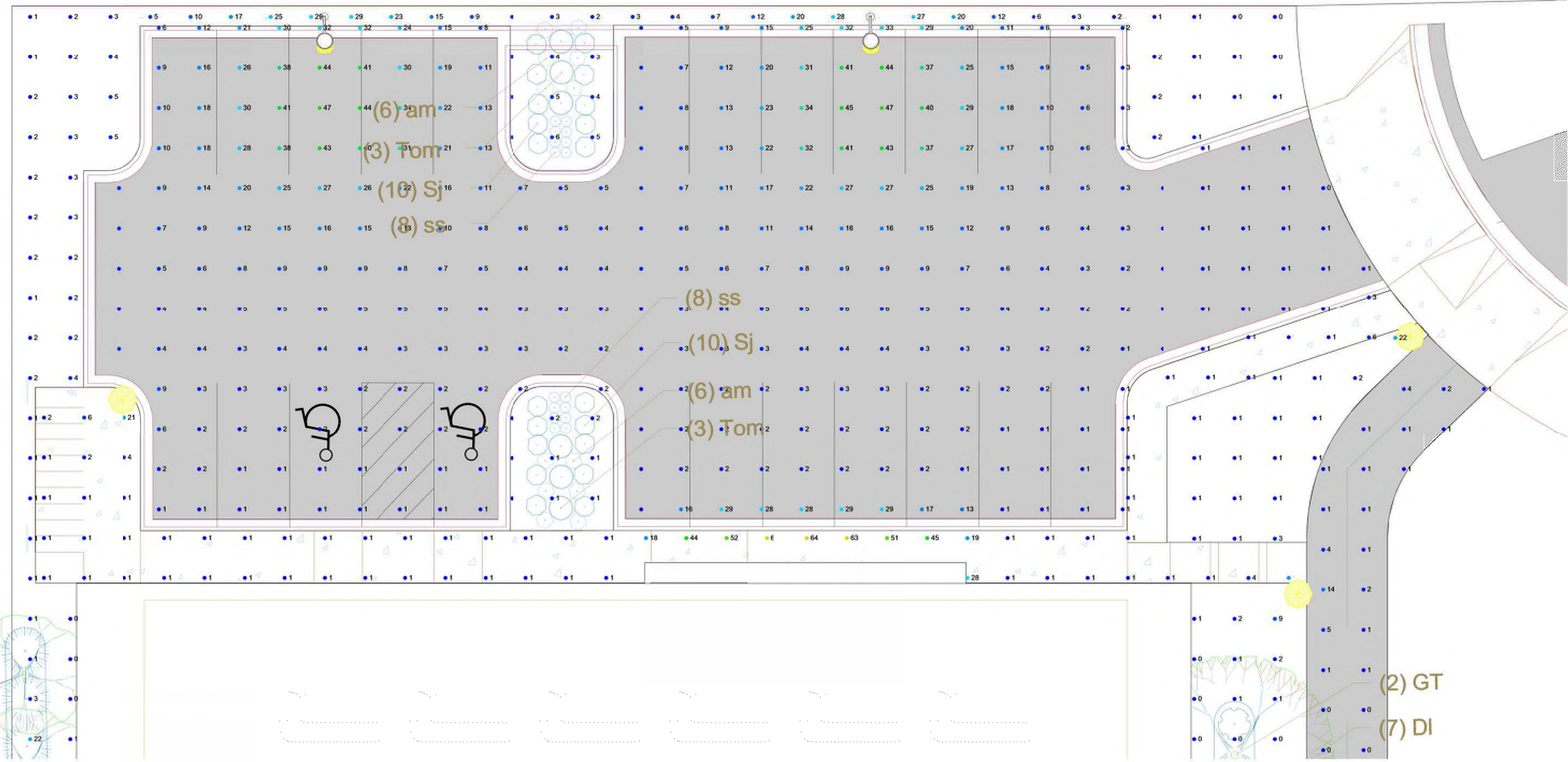




ISSUE	DATE



**1 ARCHITECTURAL SITE PLAN**  
A0.2 1" = 40'-0"



**2 ARCHITECTURAL SITE PLAN**  
A0.2 1" = 10'-0"



**LUMINAIRE SCHEDULE**

Mark	Description	Mounting	Mounting Height	Lamp	Color	Lumens	Voltage	Wattage	Manufacturer
R1	6" RECESSED DOWNLIGHT	RECESSED	N/A	LED	4000K	2000	120 V	24 W	BOD: LITHONIA LDN6
SB1	42" HIGH BALLARD	CONCRETE BASE	N/A	LED	3000K	600	120 V	8 W	BOD: LUMIERE EON SERIES
SP1	POLE MOUNT AREA LIGHT, TYPE R3 DISTRIBUTION	POLE	+20'-0" AFF	LED	4000K	6500	120 V	52 W	BOD: LITHONIA RSX1
SW1	WALL PACK AREA LIGHT, FORWARD THROW DISTRIBUTION	WALL	+8'-0" AFF	LED	4000K	1200	120 V	10 W	BOD: LITHONIA WDGE1



R1



SB1



SP1



SW1



# Existing Site Context

## DESIGN DRIVERS FROM SITE CONTEXT:

### NATURAL MATERIALS

- Lap Siding
- Brick
- Stone
- Wood

### GABLE ROOFS

### CONTRASTED TRIM

### ASPHALT SHINGLES

1



2



3



4



5



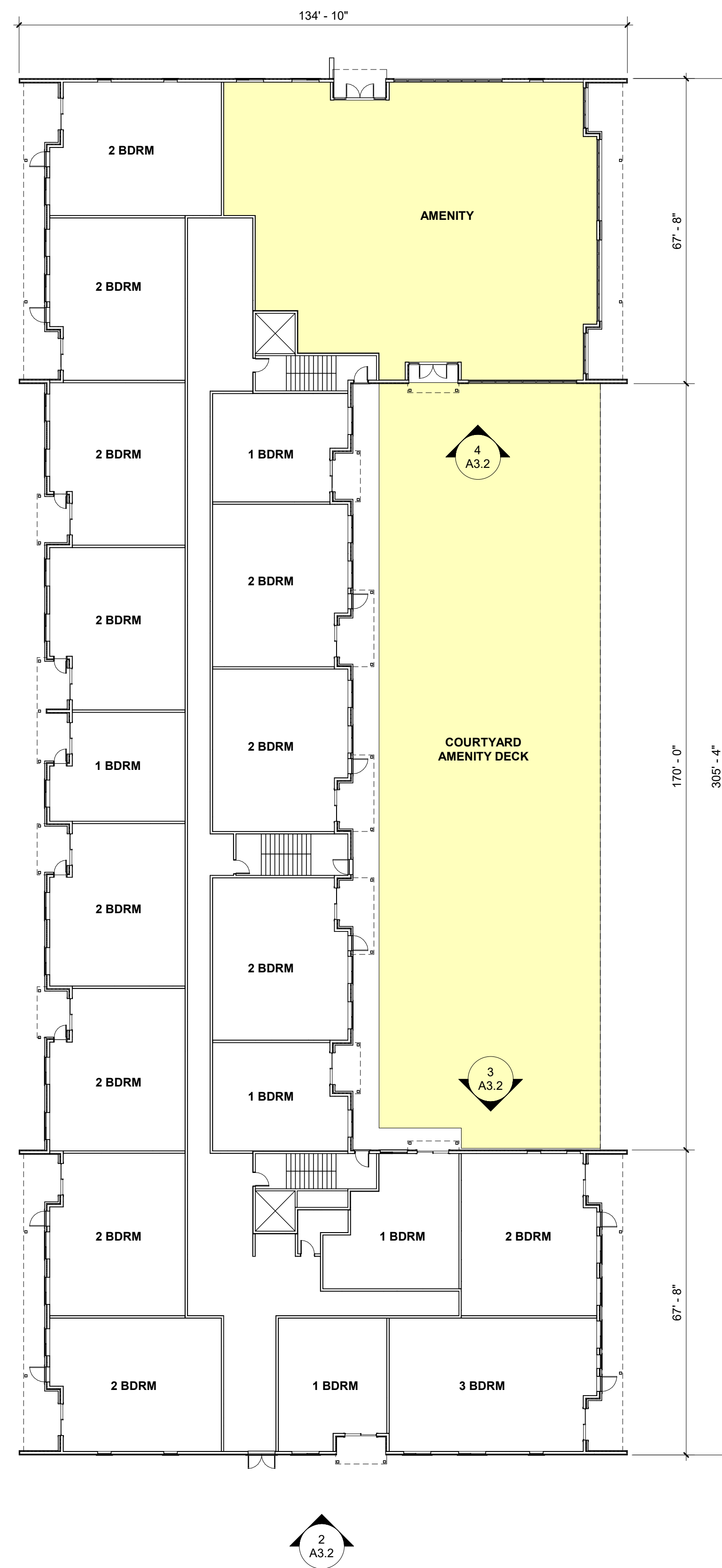
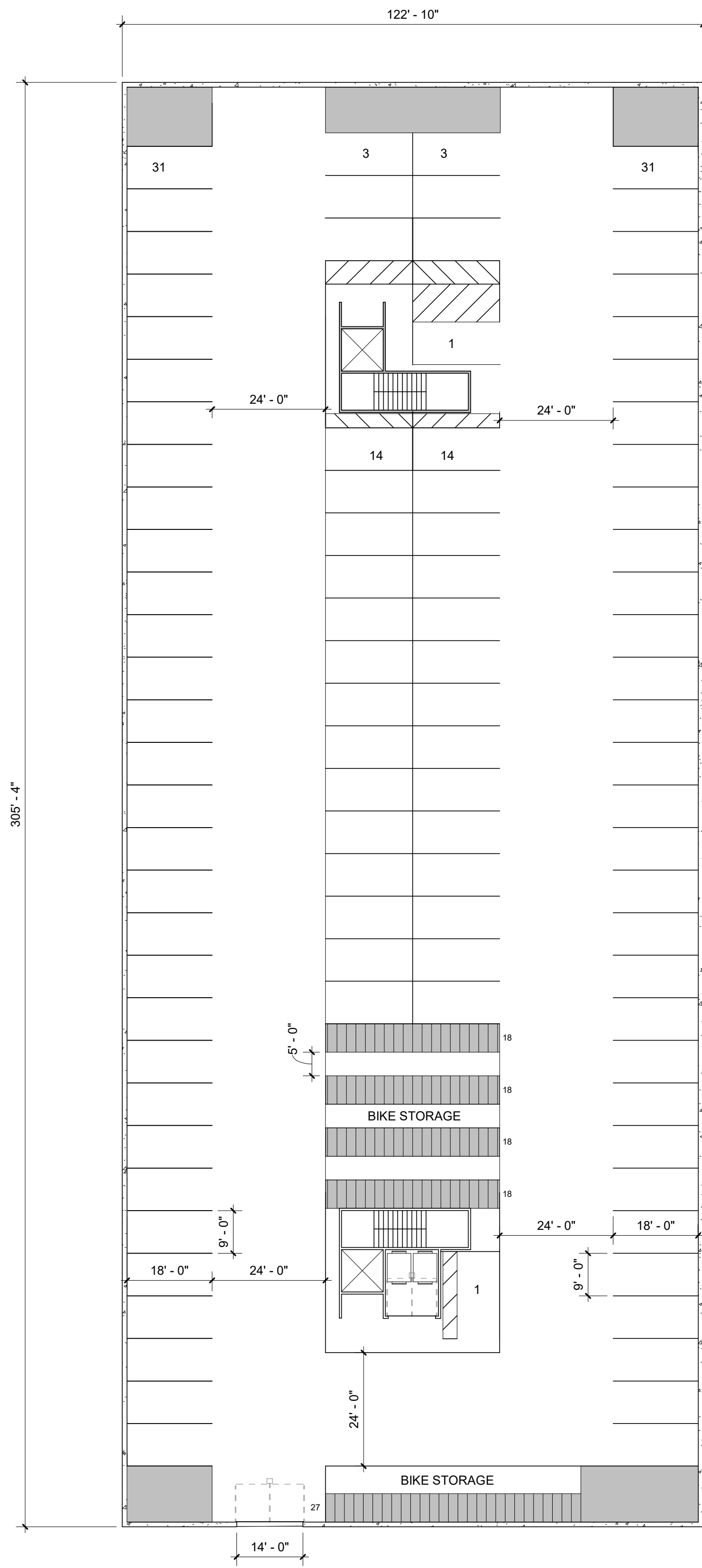
6



7







**UNITS**

TYPE	COUNT	SQFT	TOTAL SQFT
1 BEDROOMS	25	720	18,000
2 BEDROOMS	71	1,100	78,100
3 BEDROOMS	9	1,325	11,925
<b>TOTAL</b>			<b>108,025</b>

**AMENITY**

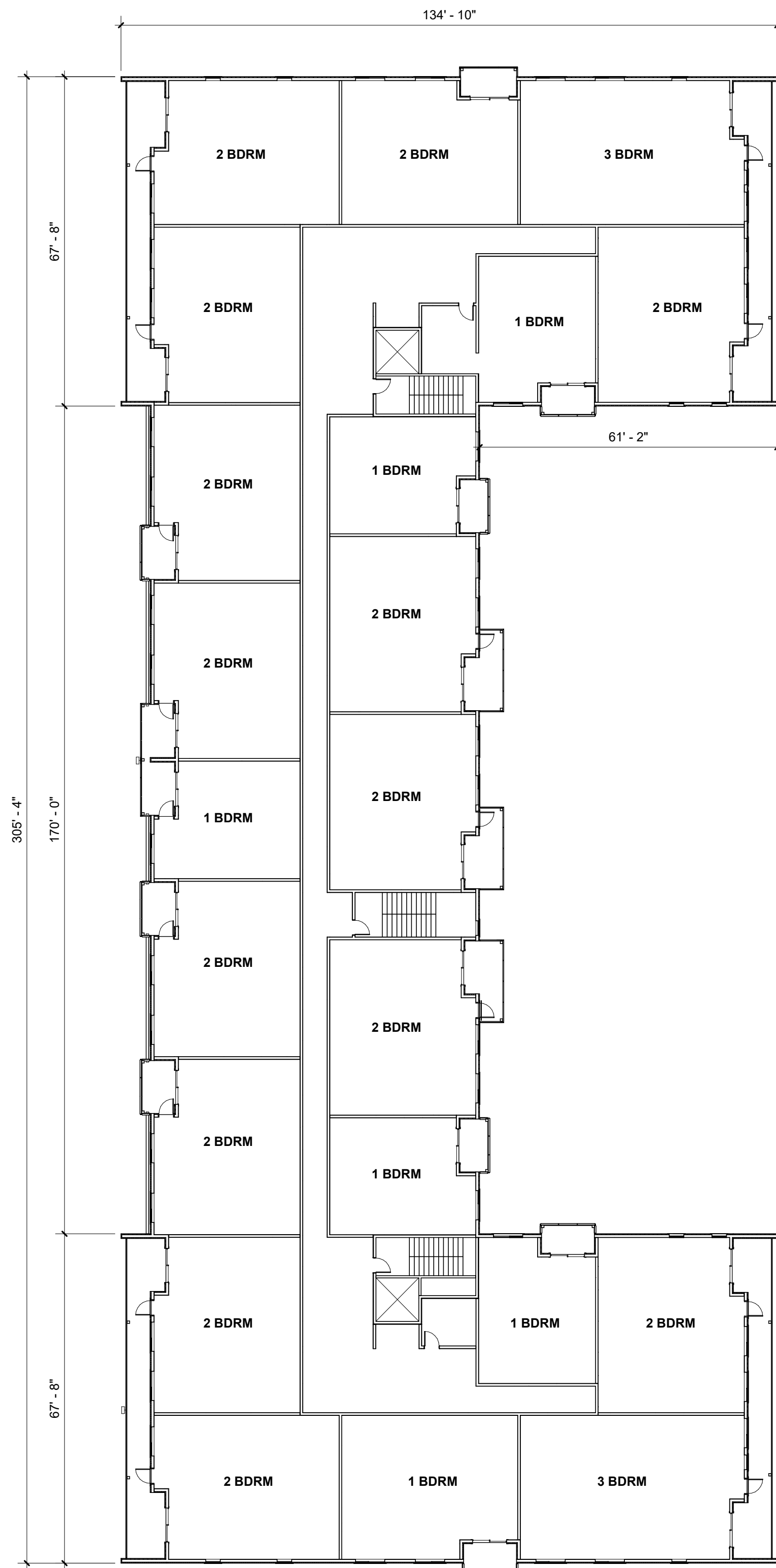
TYPE	COUNT	SQFT	TOTAL SQFT
LVL 1 AMENITY (INT)	1	4,780	4,780
LVL 1 AMENITY (EXT)	1	8,440	8,440
LVL 5 AMENITY (INT)	1	750	750
LVL 5 AMENITY (EXT)	1	500	500
<b>TOTAL</b>			<b>14,470</b>

2 WP-P1  
 A1.1 1" = 20'-0"

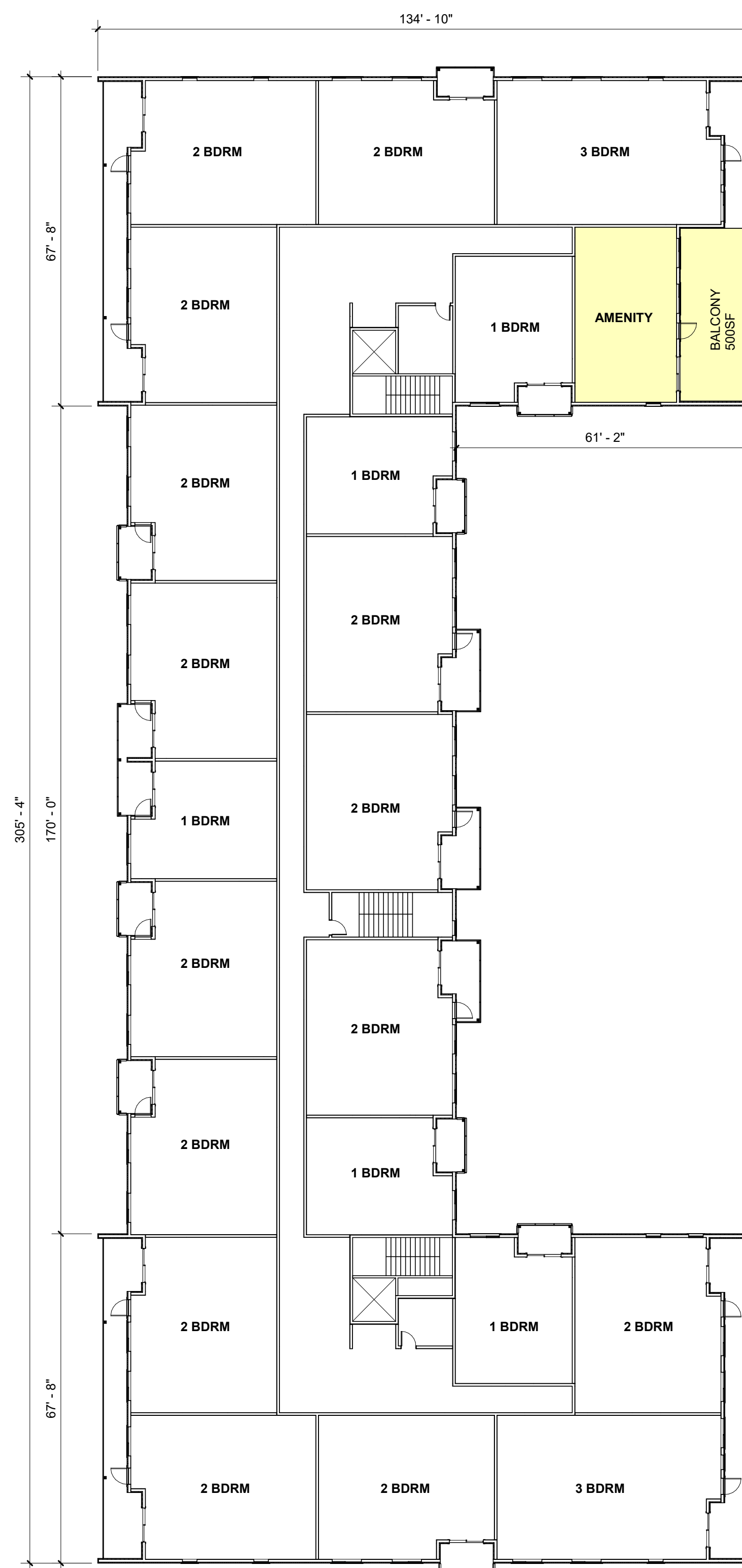
1 WP-01  
 A1.1 1" = 20'-0"



ISSUE	DATE



1 TYPICAL FLOOR PLAN 2-4  
 A1.2 1" = 20'-0"



2 FIFTH FLOOR PLAN  
 A1.2 1" = 20'-0"

UNITS

TYPE	COUNT	SQFT	TOTAL SQFT
1 BEDROOMS	25	720	18,000
2 BEDROOMS	71	1,100	78,100
3 BEDROOMS	9	1,325	11,925
TOTAL			108,025

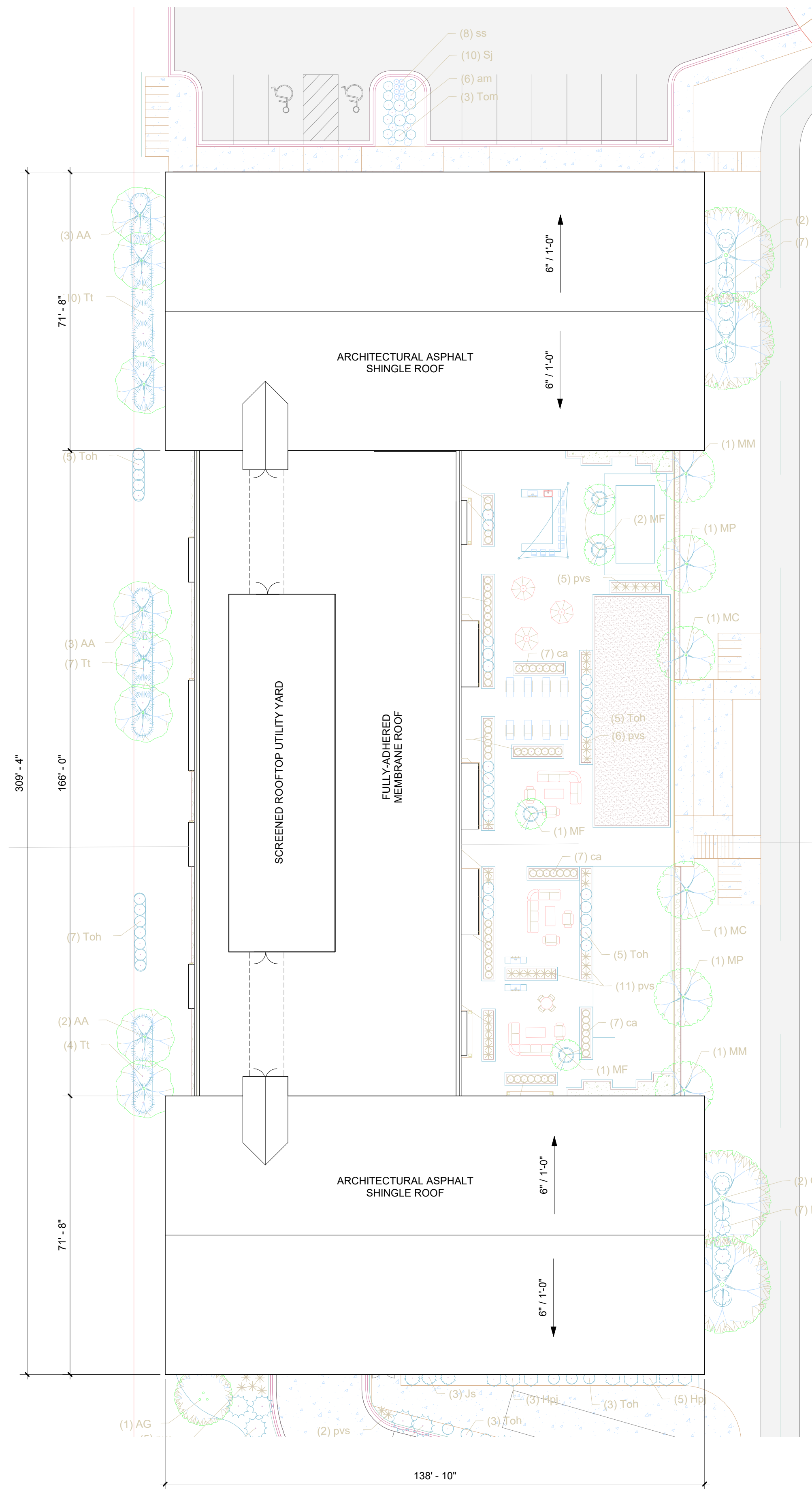
AMENITY

TYPE	COUNT	SQFT	TOTAL SQFT
LVL 1 AMENITY (INT)	1	4,780	4,780
LVL 1 AMENITY (EXT)	1	8,440	8,440
LVL 5 AMENITY (INT)	1	750	750
LVL 5 AMENITY (EXT)	1	500	500
TOTAL			14,470





ISSUE	DATE



**1 ROOF / MECH PLAN**  
 A1.3 1" = 20'-0"





EXTERIOR MATERIAL KEYNOTES	
E2A	LAP SIDING (COLOR: RAFTER BROWN; STYLE: SMOOTH 8 1/4"; BOD: HARDIEPLANK)
E2B	PANEL SIDING AT RECESSED BALCONIES (WOOD-LOOK PANELS - COLOR: VARIABLE CEDAR; STYLE: FIBER CEMENT PANEL 17 7/8"H IN STAGGERED PATTERN;)
E2C	STONE VENEER CLADDING (TBD)
E2D	5/4 SMOOTH TRIM (COLOR: ARCTIC WHITE; STYLE: 3.5" FIBER CEMENT PANEL; BOD HARDI TRIM BOARD)
E3	STOREFRONT SYSTEM IN PAINTED BLACK OR DARK BRONZE ANNOZIDED.
E4	SCREENED BALCONIES.
E5	PATTERNED PERFORATED METAL PANEL IN U-CHANNEL FRAME FOR MECHANICAL EQUIPMENT SCREENING.
E6	ARCHITECTURAL ASPHALT SHINGLES (COLOR: PEWTER; BOD CERTANTEED LANDMARK SERIES)
E7	EXPOSED STRUCTURAL GLULAM TRUSS.

**MATERIAL PALETTE**

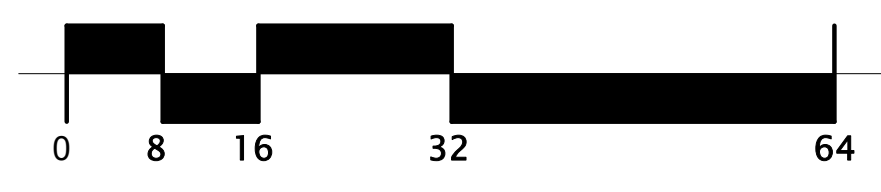
- E2A FIBERCEMENT LAP SIDING
- E2B FIBERCEMENT FAUX WOOD SIDING
- E2C STONE VENEER CLADDING
- E5 PERFORATED METAL SCREEN
- E7 EXPOSED GLULAM TRUSS



**1 EAST ELEVATION**  
A3.1 1/16" = 1'-0"



**2 WEST ELEVATION**  
A3.1 1/16" = 1'-0"



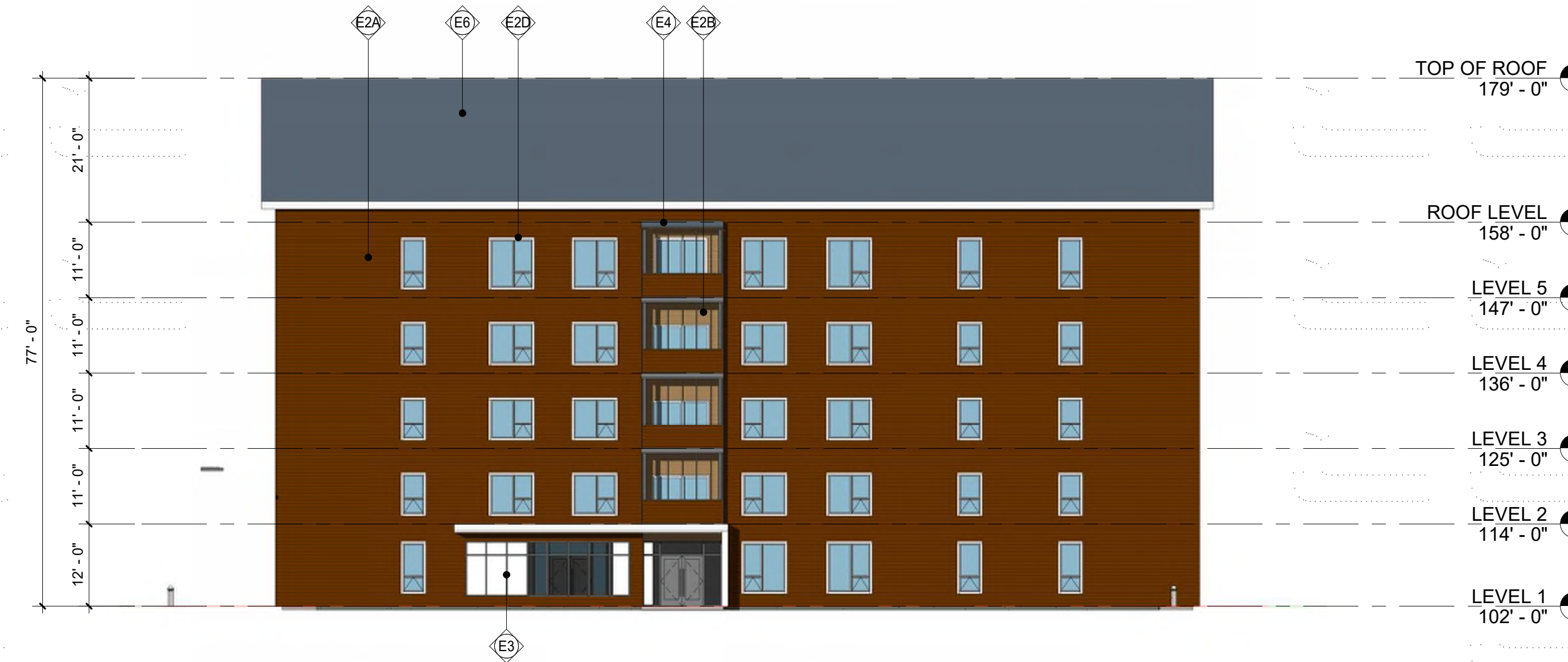


**EXTERIOR MATERIAL KEYNOTES**

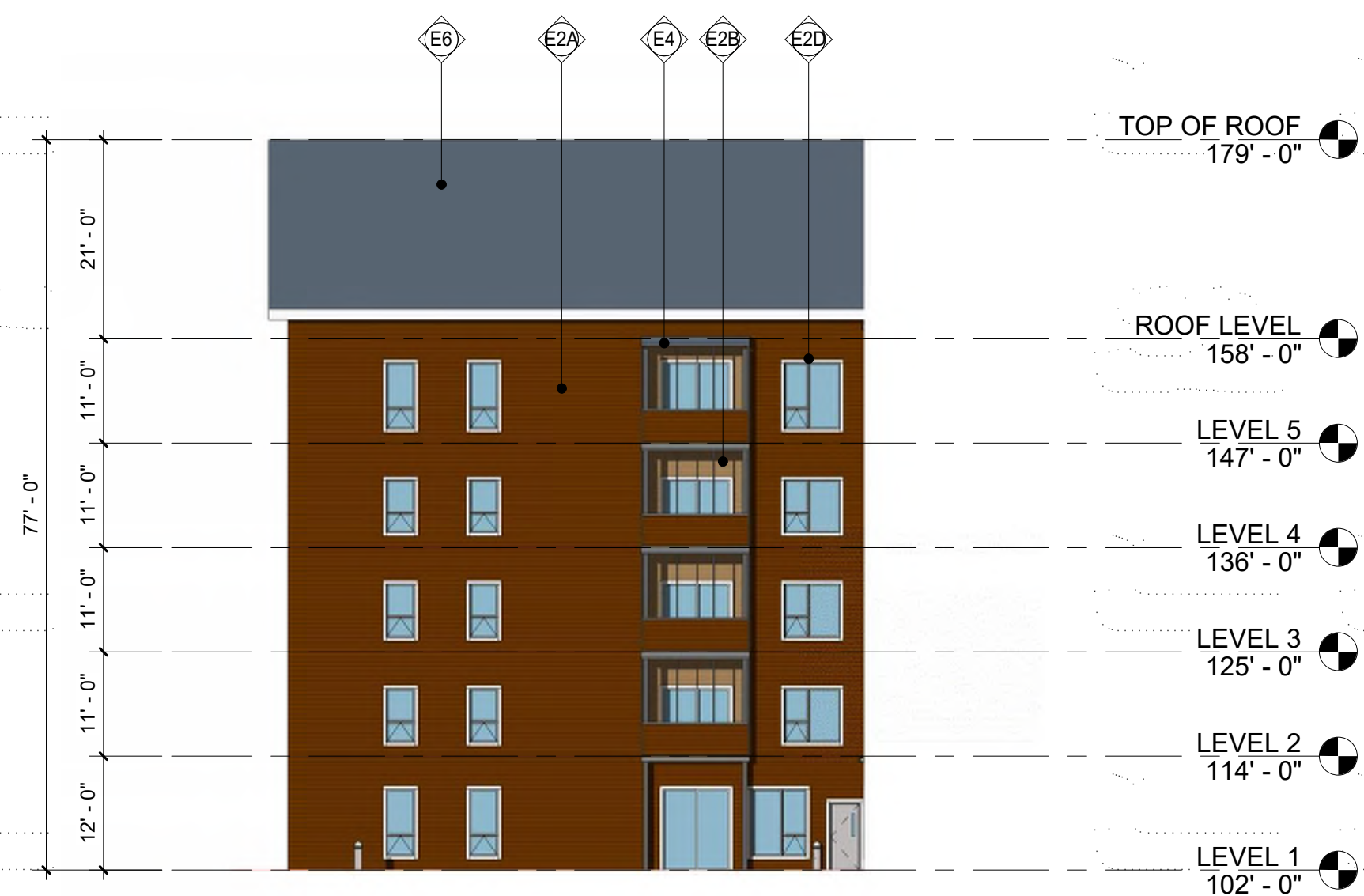
- E2A LAP SIDING (COLOR: RAFTER BROWN; STYLE: SMOOTH 8 1/4", BOD: HARDIEPLANK)
- E2B PANEL SIDING AT RECESSED BALCONIES (WOOD-LOOK PANELS - COLOR: VARIABLE CEDAR; STYLE: FIBER CEMENT PANEL 17 7/8" H IN STAGGERED PATTERN;)
- E2C STONE VENEER CLADDING (TBD)
- E2D 5/4 SMOOTH TRIM (COLOR: ARCTIC WHITE; STYLE: 3.5" FIBER CEMENT PANEL; BOD HARDI TRIM BOARD)
- E3 STOREFRONT SYSTEM IN PAINTED BLACK OR DARK BRONZE ANNOXIDIZED.
- E4 SCREENED BALCONIES.
- E5 PATTERNED PERFORATED METAL PANEL IN U-CHANNEL FRAME FOR MECHANICAL EQUIPMENT SCREENING.
- E6 ARCHITECTURAL ASPHALT SHINGLES (COLOR: PEWTER; BOD CERTAINTED LANDMARK SERIES)
- E7 EXPOSED STRUCTURAL GLULAM TRUSS.



**4 NORTH COURTYARD ELEVATION**  
 A3.2 1/16" = 1'-0"



**1 NORTH ELEVATION**  
 A3.2 1/16" = 1'-0"



**3 SOUTH COURTYARD ELEVATION**  
 A3.2 1/16" = 1'-0"

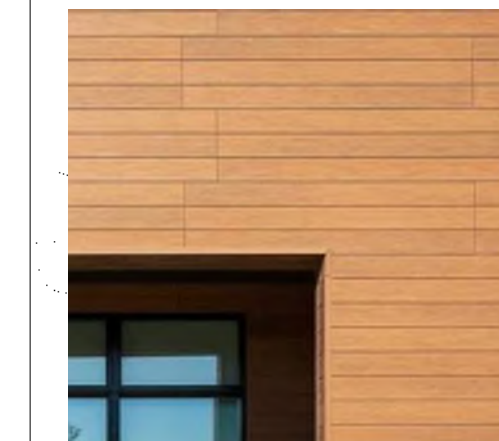


**2 SOUTH ELEVATION**  
 A3.2 1/16" = 1'-0"

**MATERIAL PALETTE**



E2A FIBERCEMENT LAP SIDING



E2B FIBERCEMENT FAUX WOOD SIDING



E2C STONE VENEER CLADDING



E5 PERFORATED METAL SCREEN



E7 EXPOSED GLULAM TRUSS

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Architect under the laws of the State of Minnesota.

Name:  
 Alex Haecker, AIA  
 Signature:

License #: 48654  
 Date: 06/27/2022

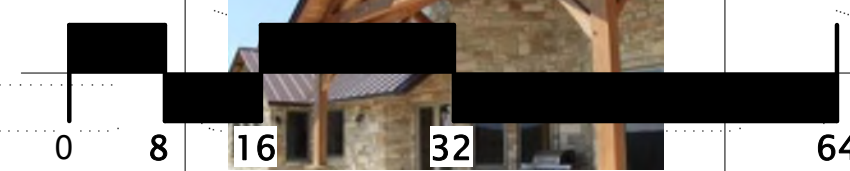
ISSUE	DATE

**EXTERIOR ELEVATIONS - COLOR**

SHEET TITLE

A3.2

SHEET







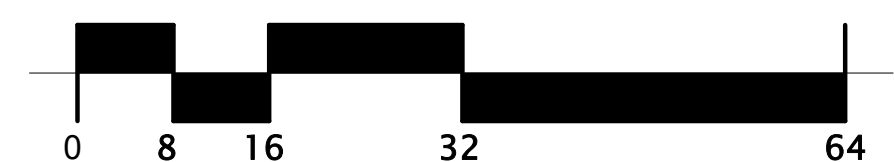
**1 WEST ELEVATION (B&W)**  
 A3.3 1/16" = 1'-0"



**2 EAST ELEVATION (B&W)**  
 A3.3 1/16" = 1'-0"

**MATERIAL LEGEND**

	FIBERCEMENT LAP SIDING
	FIBERCEMENT FAUX WOOD SIDING
	STONE VENEER CLADDING
	PERFORATED METAL SCREEN



ZOR SHRINE WEST  
 MADISON, WI  
**NOT FOR CONSTRUCTION**

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Architect under the laws of the State of Minnesota.

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 Alex Haecker, AIA  
 Signature:

License #: 48654  
 Date: 06/27/2022

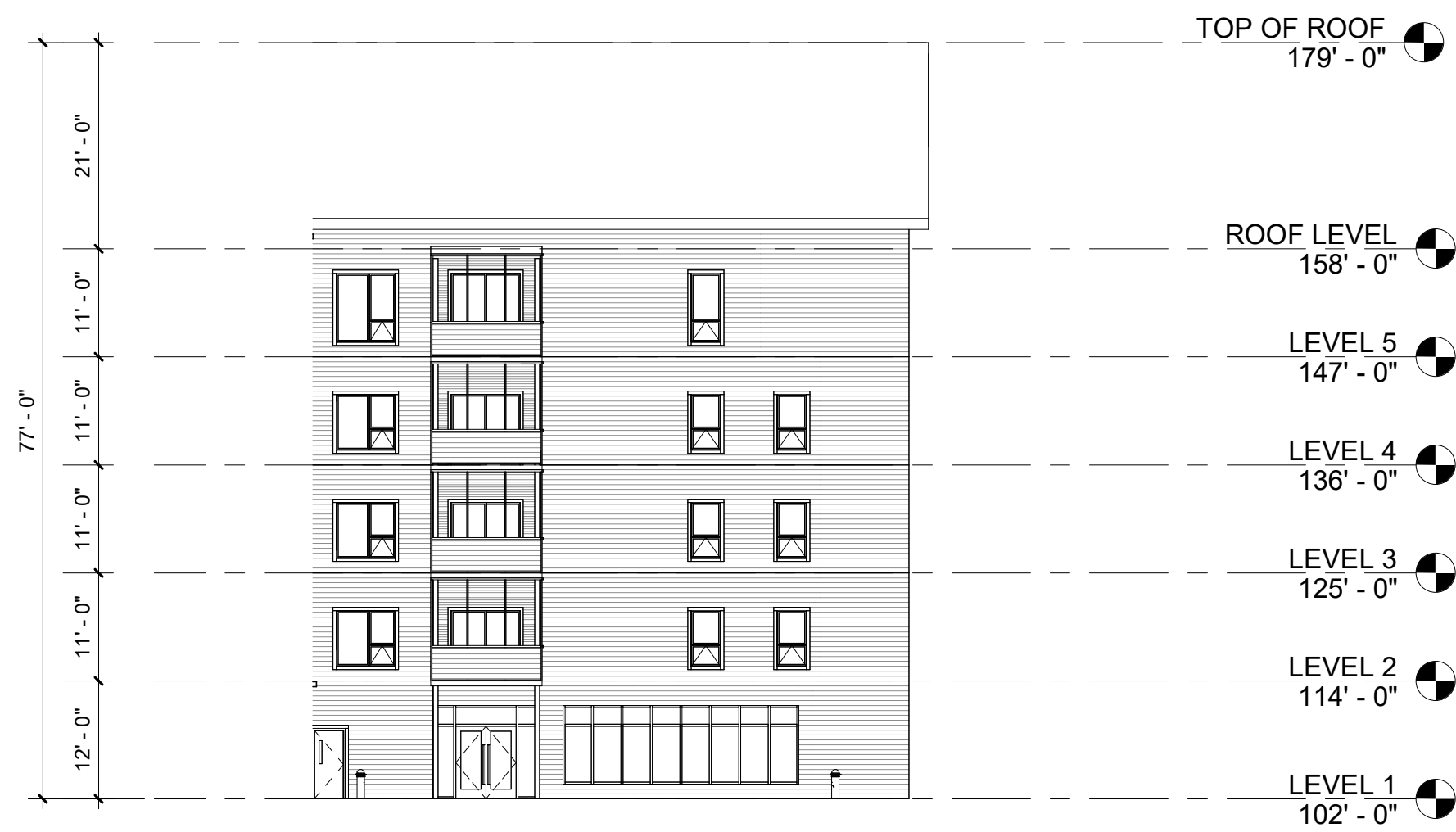
ISSUE	DATE

**EXTERIOR ELEVATIONS - B&W**

SHEET TITLE  
**A3.3**  
 SHEET



ISSUE	DATE



**1 NORTH COURTYARD ELEVATION (B&W)**  
A3.4 1/16" = 1'-0"



**2 NORTH ELEVATION (B&W)**  
A3.4 1/16" = 1'-0"



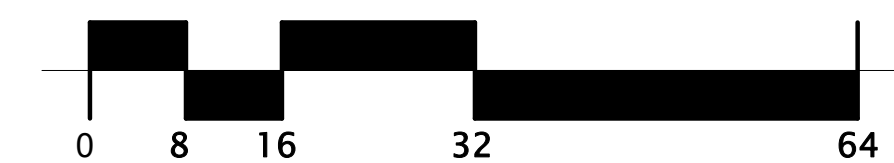
**3 SOUTH COURTYARD ELEVATION (B&W)**  
A3.4 1/16" = 1'-0"



**4 SOUTH ELEVATION (B&W)**  
A3.4 1/16" = 1'-0"

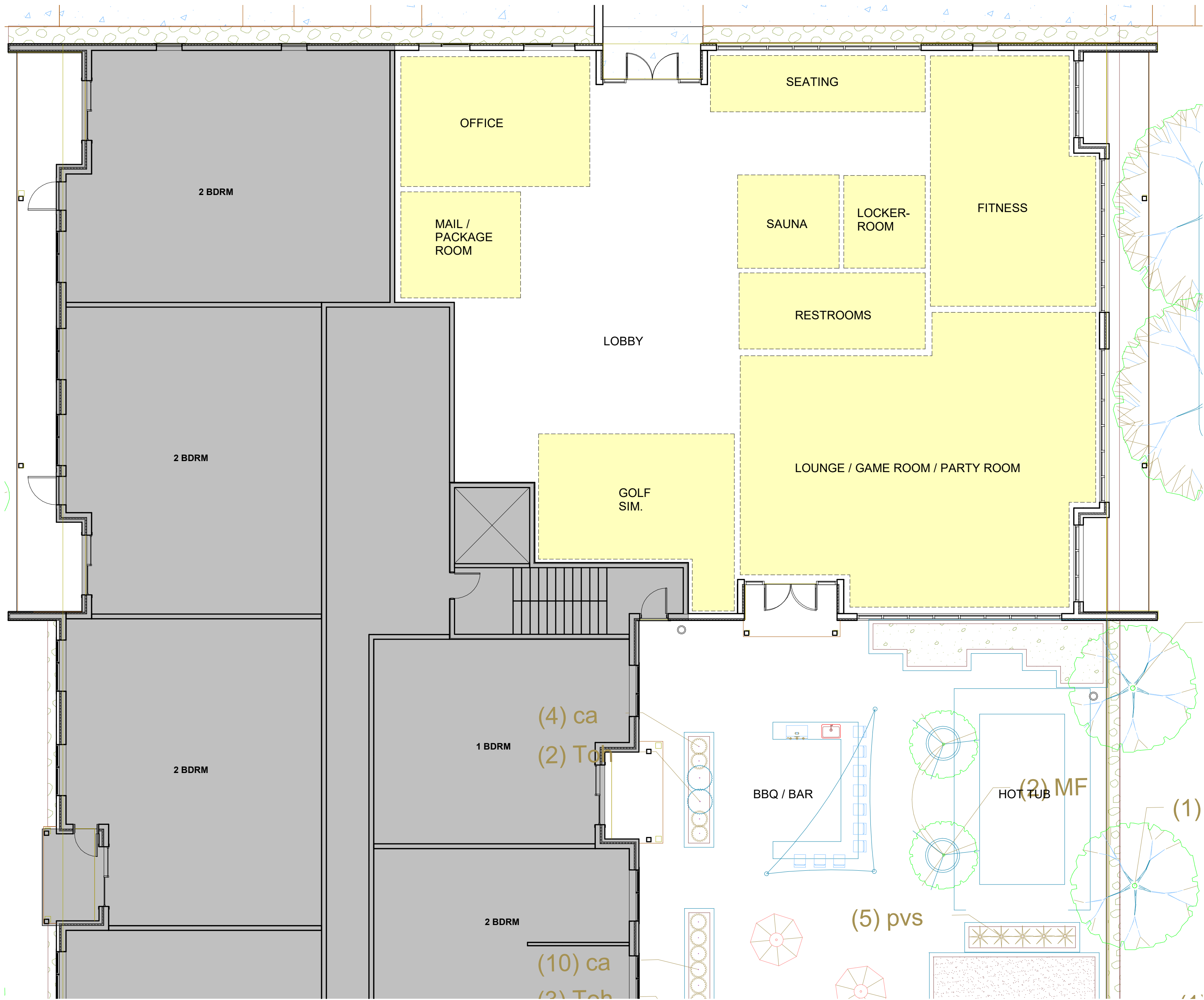
**MATERIAL LEGEND**

	FIBERCEMENT LAP SIDING
	FIBERCEMENT FAUX WOOD SIDING
	STONE VENEER CLADDING
	PERFORATED METAL SCREEN

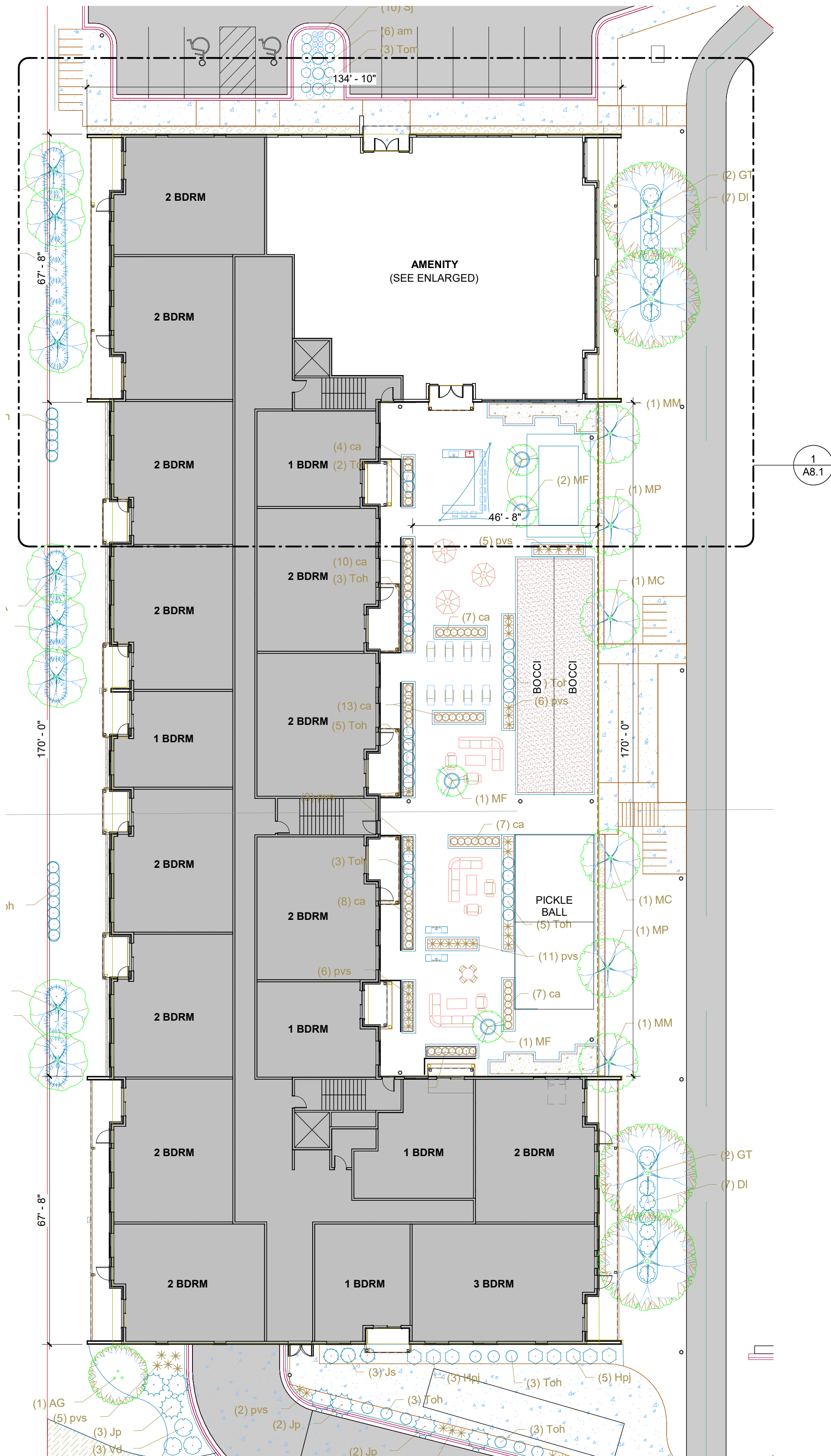




ISSUE	DATE



**1 AMENITY SPACE DIAGRAM - ENLARGED**  
 1/8" = 1'-0"



**2 AMENITY SPACE DIAGRAM - FIRST FLOOR**  
 1" = 20'-0"





I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Architect under the laws of the State of Minnesota.

Name:  
 Alex Haecker, AIA  
 Signature:

License #: 48654  
 Date: 06/27/2022

ISSUE	DATE

PERSPECTIVE VIEWS





I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Architect under the laws of the State of Minnesota.

Name:

Alex Haecker, AIA

Signature:

License #: 48654

Date: 06/27/2022

ISSUE	DATE

PERSPECTIVE VIEWS

SHEET TITLE

A12.2

SHEET



PERSPECTIVE VIEW FROM SE CORNER



PERSPECTIVE VIEW FROM NE CORNER





# City of Madison Fire Department

314 W Dayton Street, Madison, WI 53703-2506  
Phone: 608-266-4420 • Fax: 608-267-1100 • E-mail: fire@cityofmadison.com

**Project Address:** 575 Zor Shrine Place West Lot

**Contact Name & Phone #:** Carter Lanser (Vierbicher) 608-831-3946

## FIRE APPARATUS ACCESS AND FIRE HYDRANT WORKSHEET

1. Is the building completely protected by an NFPA 13 or 13R automatic fire sprinkler system? <b>If non-sprinklered</b> , fire lanes extend to within 150-feet of all portions of the exterior wall? <b>If sprinklered</b> , fire lanes are within 250-feet of all portions of the exterior wall?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N/A
2. Is the fire lane constructed of concrete or asphalt, designed to support a minimum load of 85,000 lbs? a) Is the fire lane a minimum unobstructed width of at least 20-feet? b) Is the fire lane unobstructed with a vertical clearance of at least 13½-feet? c) Is the minimum inside turning radius of the fire lane at least 28-feet? d) Is the grade of the fire lane not more than a slope of 8%? e) Is the fire lane posted as fire lane? (Provide detail of signage.) f) Is a roll-able curb used as part of the fire lane? (Provide detail of curb.) g) Is part of a sidewalk used as part of the required fire lane? (Must support +85,000 lbs.)	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A
3. Is the fire lane obstructed by security gates or barricades? If yes: a) Is the gate a minimum of 20-feet clear opening? b) Is an approved means of emergency operations installed, key vault, padlock or key switch?	<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A
4. Is the Fire lane dead-ended with a length greater than 150-feet? If yes, does the area for turning around fire apparatus comply with IFC D103?	<input type="checkbox"/> Yes <input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A
5. Is any portion of the building to be used for high-piled storage in accordance with IFC Chapter 3206.6 If yes, see IFC 3206.6 for further requirements.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
6. Is any part of the building greater than 30-feet above the grade plane? If yes, answer the following questions: <b>Will discuss with fire department</b> a) Is the aerial apparatus fire lane parallel to one entire side of the building and covering at least 25% of the perimeter? b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building? c) Are there any overhead power or utility lines located across the aerial apparatus fire lane? d) Are there any tree canopies expected to grow across the aerial fire lane? (Based on mature canopy width of tree species) e) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet? f) Is the space between the aerial lane and the building free of trees exceeding 20' in heights?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A
7. Are all portions of the required fire lanes within 500-feet of at least (2) hydrants? <i>Note: Distances shall be measured along the path of the hose lay as it comes off the fire apparatus.</i> a) Is the fire lane at least 26' wide for at least 20-feet on each side of the hydrants? b) Is there at least 40' between a hydrant and the building? c) Are the hydrant(s) setback no less than 5-feet nor more than 10-feet from the curb or edge of the street or fire lane? d) Are hydrants located in parking lot islands a minimum of 3½-feet from the hydrant to the curb? e) Are there no obstructions, including but not limited to: power poles, trees, bushes, fences, posts located, or grade changes exceeding 1½-feet, within 5-feet of a fire hydrant?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<input type="checkbox"/> N/A <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A

*Note: Hydrants shall be installed and in-service prior to combustible construction on the project site.*

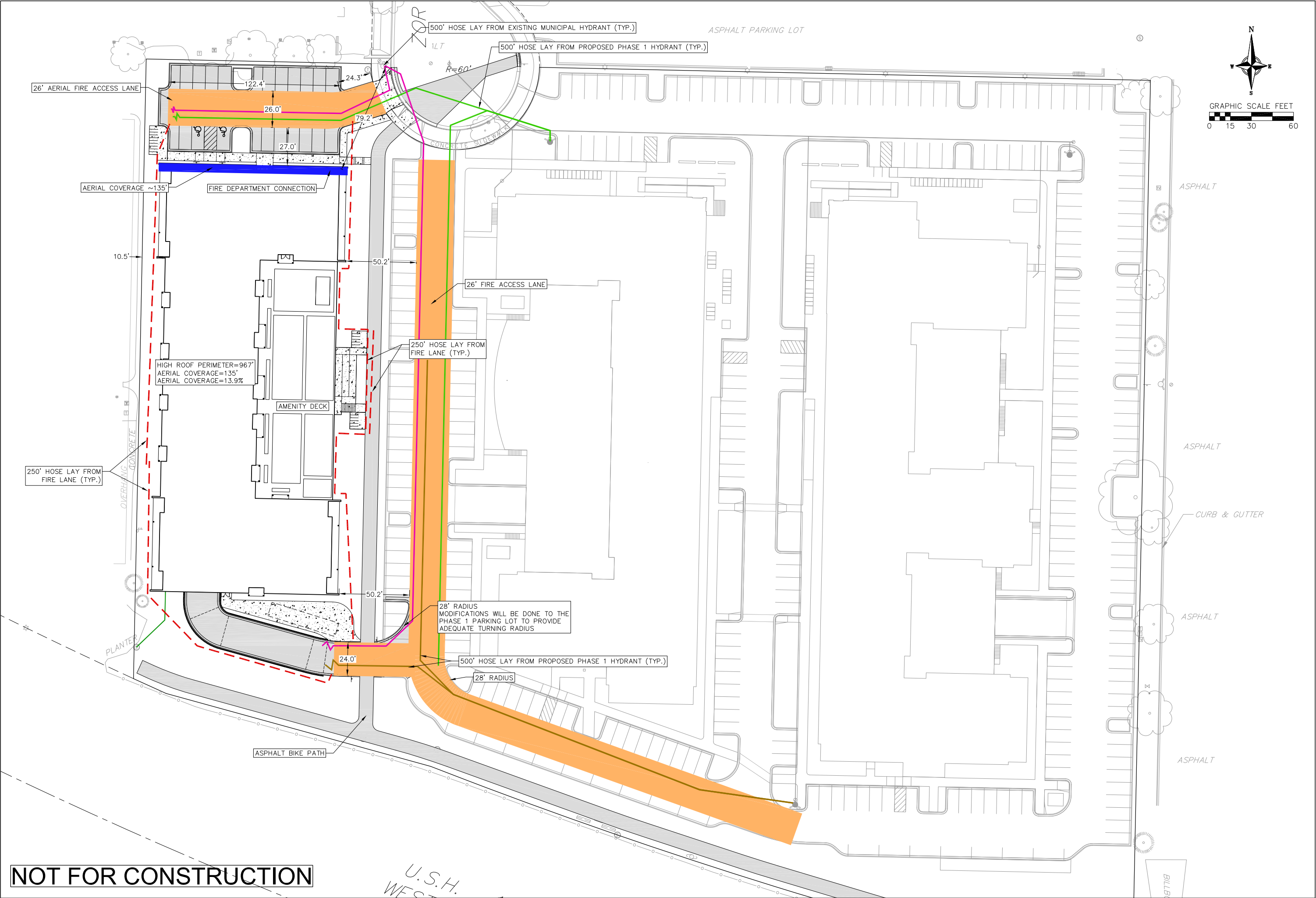
Attach an additional sheet if further explanation is required for

**No new hydrants proposed for this phase**

This worksheet is based on MGO 34.503 and IFC 2015 Edition Chapter 5 and Appendix D; please see the codes for further information.



ISSUE	DATE

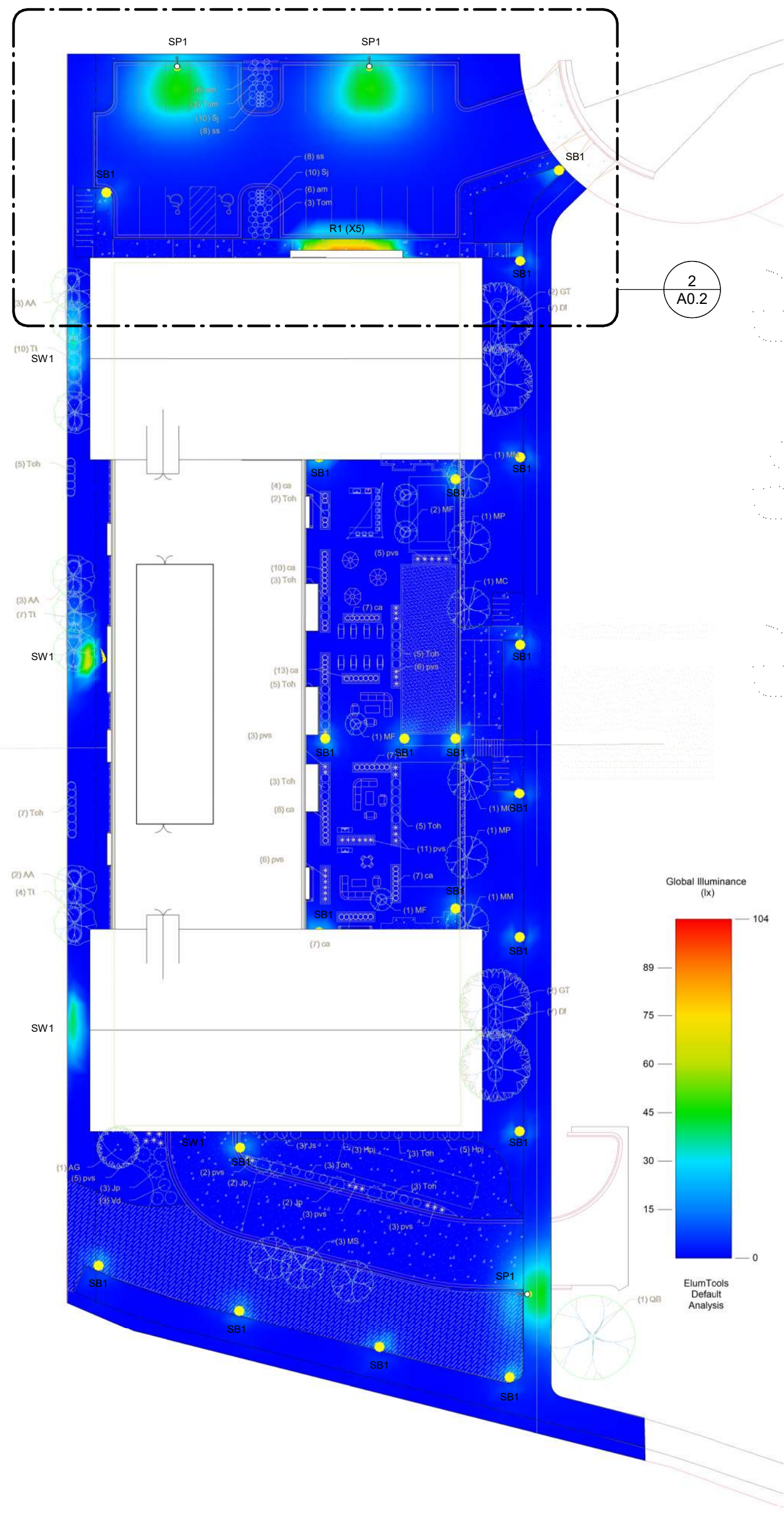


**NOT FOR CONSTRUCTION**

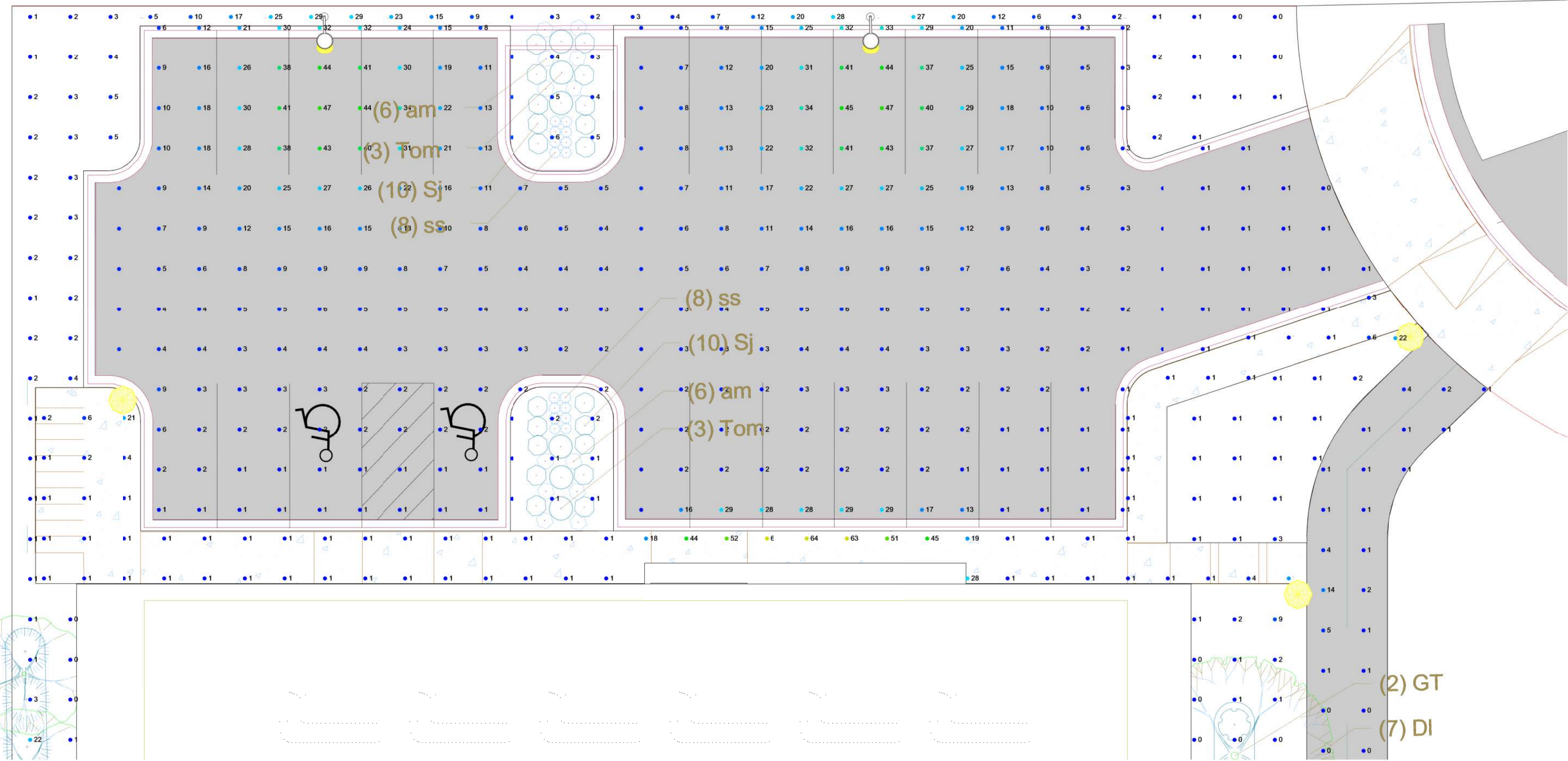
U.S.H.  
WEST

BILLBO

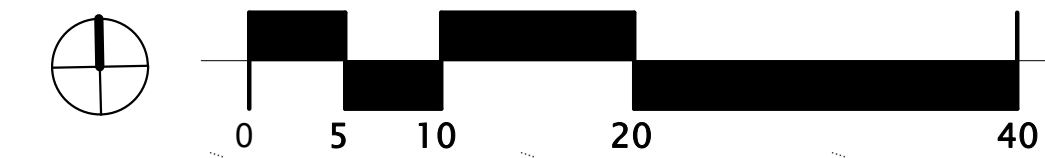




1 ARCHITECTURAL SITE PLAN  
A0.2 1" = 40'-0"



2 ARCHITECTURAL SITE PLAN  
A0.2 1" = 10'-0"



LUMINAIRE SCHEDULE

Mark	Description	Mounting	Mounting Height	Lamp	Color	Lumens	Voltage	Wattage	Manufacturer
R1	6" RECESSED DOWNLIGHT	RECESSED	N/A	LED	4000K	2000	120 V	24 W	BOD: LITHONIA LDN6
SB1	42" HIGH BALLARD	CONCRETE BASE	N/A	LED	3000K	600	120 V	8 W	BOD: LUMIERE EON SERIES
SP1	POLE MOUNT AREA LIGHT, TYPE R3 DISTRIBUTION	POLE	+20'-0" AFF	LED	4000K	6500	120 V	52 W	BOD: LITHONIA RSX1
SW1	WALL PACK AREA LIGHT, FORWARD THROW DISTRIBUTION	WALL	+8'-0" AFF	LED	4000K	1200	120 V	10 W	BOD: LITHONIA WDGE1



R1



SB1



SP1



SW1



Project		Catalog #		Type	
Prepared by		Notes		Date	



# Lumière

## EON 303-B1-LEDB1

Bollard

**Type**  
**SB1**  
42"  
Ballard  
Light

### Typical Applications

- Hospitality • Commerical Landscape • Outdoor Area/Site • Residential
- Architectural

### Interactive Menu

- Order Information page 2
- Product Specifications page 2
- Lumen Maintenance page 3
- Product Warranty

### Product Certification



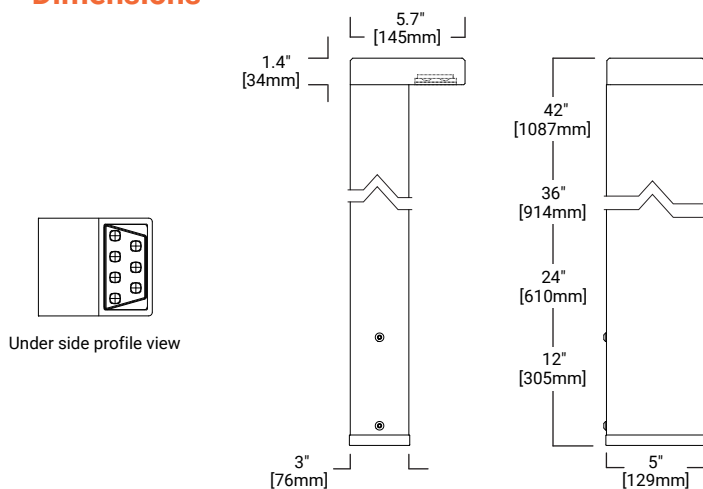
### Product Features



### Top Product Features

- Full Cut Off Downlight, 12", 24", 36" or 42" height
- 2700K, 3000K or 3500 or 4000K Color Temperature and Amber (585-595nm)
- Type II, Type IV or Type V Optics with clear glass sealed lens
- Patented AccuLED Optics™ System
- Universal Input LED Driver Included (120 - 277V, 50/60 Hz)
- ELV or 0-10 Dimming

### Dimensions



**TECHNICAL DATA**  
50°C Maximum Temperature Rating  
External Supply Wiring 90°C Minimum



## Order Information

SAMPLE ORDER NUMBER: 303-B1-LEDB1-2700-120-T2-DIM10-BK-42-EDGE-PC1-RFL-LAB

Domestic Preferences	Series	Color Temperature	Input Voltage	Optics	Dimming	Finish	Height	Options
<b>Domestic Preferences</b> <sup>(9)</sup>	<b>Series</b>	<b>Color Temperature</b>	<b>Input Voltage</b>	<b>Optics</b>	<b>Dimming</b>	<b>Finish</b> <sup>(3)</sup>	<b>Height</b> <sup>(4)</sup>	<b>Options</b> <sup>(6)</sup>
<b>[Blank]</b> =Standard <b>BAA</b> =Buy American Act	<b>303-B1-LEDB1</b>  Head contains one (1) Mini LightBAR™	<b>2700K</b> =2700K <b>3000K</b> =3000K <b>3500K</b> =3500K <b>4000K</b> =4000K <b>TSAM</b> =Turtle Safe Amber (585-595nm)	<b>UNV</b> =120-277V <sup>(1)</sup> <b>120</b> =120V <b>277</b> =277V <sup>(2)</sup>	<b>T2</b> =Type II, Lateral Throw <b>T4</b> =Type IV, Forward Throw <b>T5X</b> =Type V, Extra Wide Flood	<b>DIMELV</b> =Trailing Edge Phase Dimming Driver <b>DIM10</b> =0-10V Dimming Driver	<b>Painted</b> <b>BK</b> =Black <b>BZ</b> =Bronze <b>CS</b> =City Silver <b>WT</b> =White <b>Premium Paint</b> <b>AP</b> =Grey <b>DP</b> =Dark Platinum <b>GM</b> =Graphite Metallic	<b>12</b> =12" <sup>(5)</sup> <b>24</b> =24" <b>36</b> =36" <b>42</b> =42"	<b>EDGE</b> =Edge lit glass lens <b>PC1</b> =Photocontrol 120V <sup>(7)</sup> <b>PC2</b> =Photocontrol 208-277V <sup>(7)</sup> <b>RIU</b> =Receptacle - In Use (120V Only) <sup>(7)</sup> <b>RFL</b> =Receptacle - Flip-Lid (120V Only) <sup>(7)</sup> <b>LAB</b> =Less Anchor Bolts & Template <sup>(8)</sup>
<b>Notes</b>  (9) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <a href="#">DOMESTIC PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>  (1) Universal Voltage (UNV) is standard unless specifying Photocontrol or Receptacle (RIU or RFL - 120V) options. (2) Specify for PC2 option only.	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>  (3) Custom and RAL color matching available upon request. Consult factory for further information.	<b>Notes</b>  (4) Bollard heights are nominal (shown in inches). (5) 12" length not available with RIU or RFL options.	<b>Notes</b>  (6) Add suffix in the order shown. (7) Must specify voltage when ordering. (8) When specifying LAB option the anchor bolts and template need to be ordered separately 7581-01PK.

## Product Specifications

## Construction

- The head of the 303-B1-LEDB1 is precision machined from corrosion resistant 6061-T6 aluminum
- Body is extruded aluminum and adjustable mounting base is cast from corrosion resistant aluminum alloy
- Stainless steel hardware is included
- Four (4) 3/8" x 12" galvanized anchor bolts and a galvanized steel anchor bolt template are standard
- Specify option -LAB and order the anchor bolt/template kit separately (Catalog: 7581-01PK)

## Optical

- LightBAR™ and optical assembly are sealed by a clear, impact resistant tempered glass lens
- The optical assembly is available in three distributions: T2 (lateral throw), T4 (forward throw) and T5X (Flood)
- Available in several color temperatures: 2700K, 3000K, 3500K, 4000K and TSAM (Amber)
- Both color temperature and distribution must be specified when ordering – see catalog logic for details
- edge-lit option is available

## Electrical

- The bollard is standard with an ELV trailing edge phase dimmable driver that accepts a universal input (120-277, 50/60Hz)
- An optional 0-10V universal dimming driver is also available
- Both driver options incorporate surge protection
- The receptacle option incorporates a specification grade, 120V, 15A tamper proof and weather resistant duplex GFCI
- The photocell option comes in either a 120V or 277V
- Please see Option section for more detail

## Finish

- Luminaire and mounting base are double protected by a RoHS compliant chemical film undercoating and polyester powdercoat paint finish
- The mounting base is painted black
- The luminaire housing and head are available in a variety of standard colors
- RAL and custom color matches are available upon request
- As an option, the Eon bollards are also available in colors to match other outdoor Cooper Lighting Solutions product lines, such as Invue
- See the Finish section in the ordering detail for more detail

## Approvals

- UL and cUL listed, standard wet label
- Tested according to IESNA LM-79 and LM-80 procedures
- ROHS Compliant
- IP66 Ingressed Protection rated

## Compliance

- Dark Sky Approved (3000K CCT and warmer only)

## Warranty

- Lumiere warrants the EON series of fixtures against defects in material and workmanship for five (5) years. Auxiliary equipment such as LED drivers carries the original manufacturer's warranty



## Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	TM-21 Reported L70(10k) (Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 60,000	365,000
40°C			
50°C			

## Current Draw

Model	Line Voltage	Current Draw
303-B1-LEDB1	120-277V, 50/60Hz	0.068A

## Max Load Rating

Options	Line Voltage	Max Load Rating
PC1	120V, 50/60Hz	1000VA, 8.3A
PC2	208-277V, 50/60Hz	
RIU or RFL	120V, 50/60Hz	1800VA, 15A

## Lumens - CRI/CCT Table

Optic Type	Distribution	Watts	Delivered Lumens	LPW	CCT (K) / Color	CRI nom. / Wavelength	B-U-G Rating
T2 (Lateral Throw)		8.5	565	67	2700	90	B0-U1-G0
			581	68	3000	80	
			632	74	3500	80	
			618	73	4000	80	
			6.5	184	28	TSAM	
T4 (Forward Throw)		8.5	588	69	2700	90	B0-U1-G0
			605	71	3000	80	
			657	77	3500	80	
			643	76	4000	80	
			6.5	180	28	TSAM	
T5X (Extra Wide Flood)		8.5	571	67	2700	90	B0-U1-G0
			587	69	3000	80	
			638	75	3500	80	
			624	73	4000	80	
			6.5	161	25	TSAM	

NOTES: 1 When the LCF option is selected use a lumen multiplier of .85

## Options

### Receptacle Options (120V Only)

**RIU - Receptacle In-Use**

Rugged UV-resistant polycarbonate clear cover and gray body protects GFCL without cracking or breaking and is non-corrosive. Note: Cover is weatherproof with the cord plugged in and the receptacle is not required to be attended while in use. The receptacle incorporates a specification grade, 120V, 15A tamper proof and weather resistant duplex GFCL. Available on 24", 36" and 42" heights.

**RFL - Receptacle Flip Lid**

Cover is constructed of a durable, die-cast zinc-alloy and is painted to match fixture. Cover is only weatherproof without the cord plugged in and the cover closed. The receptacle will need to be attended while in use. The receptacle incorporates a specification grade, 120V, 15A tamper proof and weather resistant duplex GFCL. Available on 24", 36" and 42" heights.

### Photocontrol

**PC1 (120V) or PC2 (277V)**

Photocontrol cover is precision machined from corrosion-resistant 6061-T6 aluminum and is secured to bollard head with tamper resistant stainless steel hardware. The photocontrol option is available in dedicated 120V or 208-277V. When specifying a photocontrol option make sure to designate the appropriate voltage within the catalog logic.

### Edge

When specifying with the EDGE option, the diffused glass becomes thicker adding a visible line of light around the edge accentuating the luminaries' aesthetics and styling.

## Technical Notes

- Adjustable mounting base - Cast aluminum mounting base is equipped with the patented LumaLevel™ leveling system that includes mounting base, 70 shore neoprene base, stainless steel hardware and a slot to accommodate two inbound and outbound 3/4" conduits. It provides quick installation, easy adjustment, secure mounting and protection from vibration.





# RSX1 LED Area Luminaire

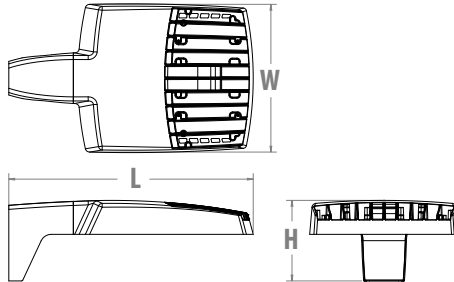


Catalog Number	Type SP1 Pole Light
Notes	
Type	

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

## Specifications

<b>EPA (ft²@0°):</b>	0.57 ft² (0.05 m²)
<b>Length:</b>	21.8" (55.4 cm) (SPA mount)
<b>Width:</b>	13.3" (33.8 cm)
<b>Height:</b>	3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm
<b>Weight: (SPA mount):</b>	22.0 lbs (10.0 kg)



## Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

## Ordering Information

**EXAMPLE:** RSX1 LED P4 40K R3 MVOLT SPA DDBXD

RSX1 LED						
Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting	
RSX1 LED	P1	30K 3000K	R2 Type 2 Wide	MVOLT (120V-277V) <sup>2</sup>	SPA Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°) RPA Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°) MA Mast arm adaptor (fits 2-3/8" OD horizontal tenon) IS Adjustable slipfitter (fits 2-3/8" OD tenon) <sup>6</sup> WBA Wall bracket <sup>1</sup> WBASC Wall bracket with surface conduit box AASP Adjustable tilt arm square pole mounting <sup>6</sup> AARP Adjustable tilt arm round pole mounting <sup>6</sup> AAWB Adjustable tilt arm with wall bracket <sup>6</sup> AAWSC Adjustable tilt arm wall bracket and surface conduit box <sup>6</sup>	
	P2	40K 4000K	R3 Type 3 Wide	HVOLT (347V-480V) <sup>3</sup>		
	P3	50K 5000K	R3S Type 3 Short	XVOLT (277V-480V) <sup>4</sup>		
	P4			R4 Type 4 Wide		<b>(use specific voltage for options as noted)</b> 120 <sup>3</sup> 277 <sup>5</sup> 208 <sup>3</sup> 347 <sup>5</sup> 240 <sup>3</sup> 480 <sup>5</sup>
				R4S Type 4 Short		
				R5 Type 5 Wide <sup>1</sup>		
				R5S Type 5 Short <sup>1</sup>		
				AFR Automotive Front Row		
				AFRR90 Automotive Front Row Right Rotated		
				AFRL90 Automotive Front Row Left Rotated		

Options		Finish
<b>Shipped Installed</b> HS House-side shield <sup>7</sup> PE Photocontrol, button style <sup>8,9</sup> PEX Photocontrol external threaded, adjustable <sup>9,10</sup> PER7 Seven-wire twist-lock receptacle only (no controls) <sup>9,11,12,13</sup> CE34 Conduit entry 3/4" NPT (Qty 2) SF Single fuse (120, 277, 347) <sup>5</sup> DF Double fuse (208, 240, 480) <sup>5</sup> SPD20KV 20KV Surge pack (10KV standard) FAO Field adjustable output <sup>9,13</sup> DMG 0-10V dimming extend out back of housing for external control (control ordered separate) <sup>9,13</sup>		DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured Dark Bronze DBLTXD Textured Black DNATXD Textured Natural Aluminum DWHGXD Textured White
<b>Shipped Installed</b> <b>*Standalone and Networked Sensors/Controls (factory default settings, see table page 9)</b> NLTAIR2 nLight AIR generation 2 <sup>13,14,15</sup> PIRHN Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) <sup>13,15,16</sup> BAA Buy America(n) Act Compliant  <b>*Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.</b>  <b>Shipped Separately (requires some field assembly)</b> EGS External glare shield <sup>7</sup> EGFV External glare full visor (360° around light aperture) <sup>7</sup> BS Bird spikes <sup>17</sup>		





## Ordering Information

### Accessories

Ordered and shipped separately.

RSX1HS	RSX1 House side shield (includes 1 shield)
RSX1HSAFRUR	RSX1 House side shield for AFR rotated optics (includes 1 shield)
RSX1EGS (FINISH) U	External glare shield (specify finish)
RSX1EGFV (FINISH) U	External glare full visor (specify finish)
RSXRPA (FINISH) U	RSX Universal round pole adaptor plate (specify finish)
RSXWBA (FINISH) U	RSX WBA wall bracket (specify finish) <sup>1</sup>
RSXSCB (FINISH) U	RSX Surface conduit box (specify finish, for use with WBA, WBA not included)
DLL127F 1.5 JU	Photocell -SSL twist-lock (120-277V) <sup>18</sup>
DLL347F 1.5 CUL JU	Photocell -SSL twist-lock (347V) <sup>18</sup>
DLL480F 1.5 CUL JU	Photocell -SSL twist-lock (480V) <sup>18</sup>
DSHORT SBK U	Shorting cap <sup>18</sup>

### NOTES

- 1 Any Type 5 distribution, is not available with WBA.
- 2 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 3 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- 4 XVOLT driver not available with P1 or P2. XVOLT driver operates on any line voltage from 277V-480V (50/60 Hz). XVOLT not available with fusing (SF or DF) and not available with PE or PEX.
- 5 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 6 Maximum tilt is 90° above horizontal.
- 7 It may be ordered as an accessory.
- 8 Requires MVOLT or 347V.
- 9 Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, FAO, DMG, PIRHN).
- 10 Requires 120V, 208V, 240V or 277V.
- 11 Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. Dimming leads capped for future use.
- 12 For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010.
- 13 Two or more of the following options cannot be combined including DMG, PER7, FAO and PIRHN.
- 14 Must be ordered with PIRHN.
- 15 Requires MVOLT or HVOLT.
- 16 Must be ordered with NLTAIR2. For additional information on PIRHN visit [here](#).
- 17 Must be ordered with fixture for factory pre-drilling.
- 18 Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

## External Shields



House Side Shield



External Glare Shield

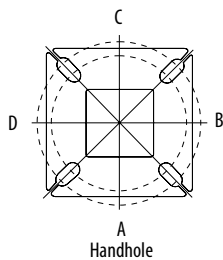


External 360 Full Visor

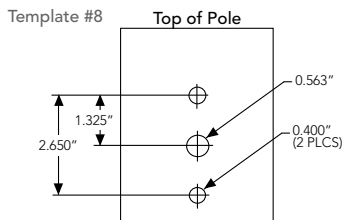
## Pole/Mounting Information

Accessories including bullhorns, cross arms and other adapters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit [Accessories](#).

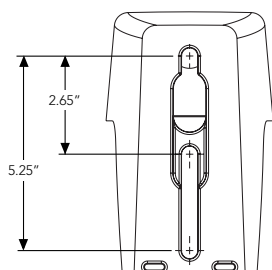
### HANDHOLE ORIENTATION



### RSX POLE DRILLING



### RSX STANDARD ARM & ADJUSTABLE ARM



### Round Tenon Mount - Pole Top Slipfitters

Tenon O.D.	RSX Mounting	Single	2 @ 180°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
2 - 3/8"	RPA, AARP	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 320	AS3-5 390	AS3-5 490
2 - 7/8"	RPA, AARP	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	RPA, AARP	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

### Drill/Side Location by Configuration Type

Drilling Template	Mounting Option	Single	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
	Head Location	Side B	Side B & D	Side B & C	Round Pole Only	Side B, C & D	Side A, B, C & D
#8	Drill Nomenclature	DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS

### RSX1 - Luminaire EPA

\*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

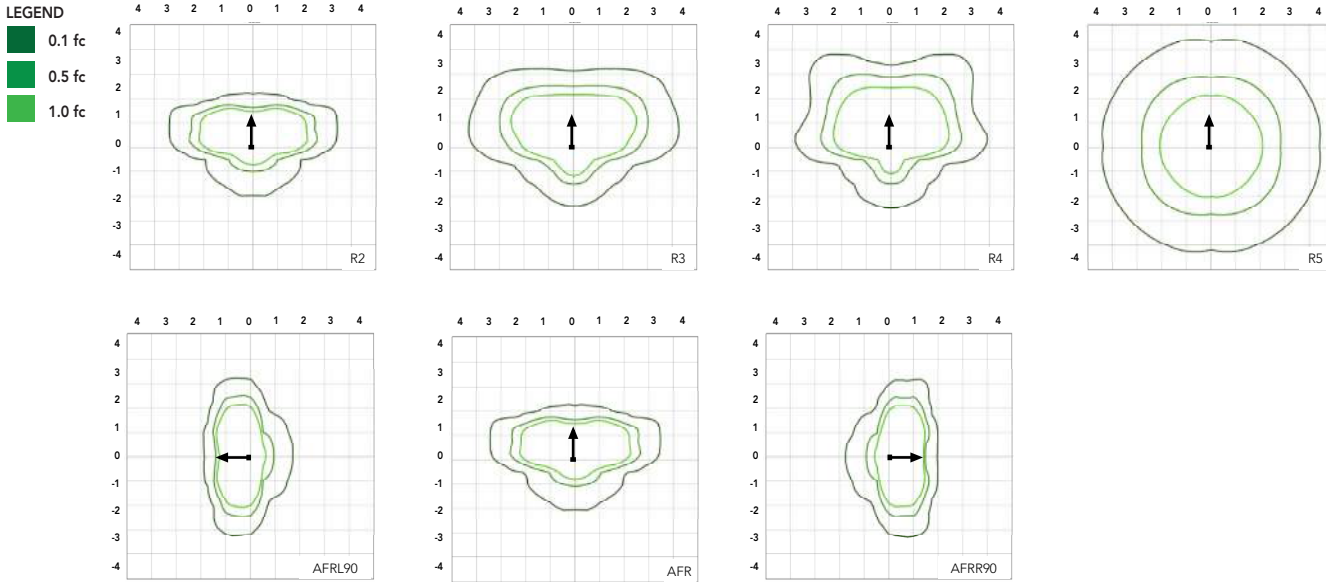
Fixture Quantity & Mounting Configuration	Single	2 @ 90	2 @ 180	3 @ 90	3 @ 120	4 @ 90	2 Side by Side	3 Side by Side	4 Side by Side
SPA - Square Pole Adaptor	0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
RPA - Round Pole Adaptor	0.62	1.08	1.15	1.62	1.46	2.13	1.36	1.8	2.36
MA - Mast Arm Adaptor	0.49	0.95	0.89	1.36	1.2	1.87	1.23	1.54	2.1
IS - Integral Slipfitter AASP/AARP - Adjustable Arm Square/Round Pole	0°	0.57	1.03	1.05	1.52	1.36	2.03	1.31	2.26
	10°	0.68	1.34	1.33	2	1.74	2.64	1.35	2.71
	20°	0.87	1.71	1.73	2.56	2.26	3.42	1.75	3.49
	30°	1.24	2.19	2.3	3.21	2.87	4.36	2.49	4.97
	40°	1.81	2.68	2.98	3.85	3.68	5.30	3.62	7.24
	45°	2.11	2.92	3.44	4.2	4.08	5.77	4.22	8.44
	50°	2.31	3.17	3.72	4.52	4.44	6.26	4.62	9.25
	60°	2.71	3.66	4.38	5.21	5.15	7.24	5.43	10.86
	70°	2.78	3.98	4.54	5.67	5.47	7.91	5.52	11.03
	80°	2.76	4.18	4.62	5.97	5.76	8.31	5.51	11.03
	90°	2.73	4.25	4.64	6.11	5.91	8.47	5.45	10.97



# Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [RSX Area homepage](#).

Isofootcandle plots for the RSX1 LED P4 40K. Distances are in units of mounting height (20').



## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97
45°C	113°F	0.96
50°C	122°F	0.95

### Electrical Load

Performance Package	System Watts (W)	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	51W	0.42	0.25	0.21	0.19	0.14	0.11
P2	72W	0.60	0.35	0.30	0.26	0.21	0.15
P3	109W	0.91	0.52	0.45	0.39	0.31	0.23
P4	133W	1.11	0.64	0.55	0.48	0.38	0.27

### Projected LED Lumen Maintenance

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.97	>0.95	>0.92

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.



Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	R2	6,482	1	0	1	126	7,121	1	0	1	139	7,121	1	0	1	139
		R3	6,459	1	0	2	127	7,096	1	0	2	139	7,096	1	0	2	139
		R3S	6,631	1	0	1	129	7,286	1	0	2	142	7,286	1	0	2	142
		R4	6,543	1	0	2	128	7,189	1	0	2	141	7,189	1	0	2	141
		R4S	6,313	1	0	1	124	6,936	1	0	1	136	6,936	1	0	1	136
		R5	6,631	3	0	2	130	7,286	3	0	2	143	7,286	3	0	2	143
		R5S	6,807	3	0	1	133	7,479	3	0	1	147	7,479	3	0	1	147
		AFR	6,473	1	0	1	127	7,112	1	0	1	139	7,112	1	0	1	139
		AFRR90	6,535	2	0	2	127	7,179	2	0	2	140	7,179	2	0	2	140
		AFRL90	6,562	2	0	1	128	7,210	2	0	2	140	7,210	2	0	2	140
P2	72W	R2	8,991	2	0	1	123	9,878	2	0	1	135	9,878	2	0	1	135
		R3	8,959	2	0	2	124	9,843	2	0	2	137	9,843	2	0	2	137
		R3S	9,198	2	0	2	126	10,106	2	0	2	139	10,106	2	0	2	139
		R4	9,077	2	0	2	126	9,972	2	0	2	139	9,972	2	0	2	139
		R4S	8,757	1	0	2	122	9,622	2	0	2	134	9,622	2	0	2	134
		R5	9,198	4	0	2	128	10,106	4	0	2	140	10,106	4	0	2	140
		R5S	9,443	3	0	1	131	10,374	3	0	1	144	10,374	3	0	1	144
		AFR	8,979	2	0	1	125	9,865	2	0	1	137	9,865	2	0	1	137
		AFRR90	9,064	3	0	2	124	9,959	3	0	2	137	9,959	3	0	2	137
		AFRL90	9,102	3	0	2	125	10,001	3	0	2	137	10,001	3	0	2	137
P3	109W	R2	12,808	2	0	1	117	14,072	2	0	2	129	14,072	2	0	2	129
		R3	12,763	2	0	2	117	14,023	2	0	2	129	14,023	2	0	2	129
		R3S	13,104	2	0	2	120	14,397	2	0	2	132	14,397	2	0	2	132
		R4	12,930	2	0	2	119	14,206	2	0	2	130	14,206	2	0	2	130
		R4S	12,475	2	0	2	114	13,707	2	0	2	126	13,707	2	0	2	126
		R5	13,104	4	0	2	120	14,397	4	0	2	132	14,397	4	0	2	132
		R5S	13,452	3	0	2	123	14,779	3	0	2	136	14,779	3	0	2	136
		AFR	12,791	2	0	1	117	14,053	2	0	2	129	14,053	2	0	2	129
		AFRR90	12,913	3	0	3	118	14,187	3	0	3	130	14,187	3	0	3	130
		AFRL90	12,967	3	0	2	118	14,247	3	0	3	130	14,247	3	0	3	130
P4	133W	R2	14,943	2	0	2	112	16,417	2	0	2	123	16,417	2	0	2	123
		R3	14,890	2	0	3	112	16,360	2	0	3	123	16,360	2	0	3	123
		R3S	15,287	2	0	2	115	16,796	2	0	2	126	16,796	2	0	2	126
		R4	15,085	2	0	3	113	16,574	2	0	3	125	16,574	2	0	3	125
		R4S	14,554	2	0	2	109	15,991	2	0	2	120	15,991	2	0	2	120
		R5	15,287	4	0	2	115	16,796	4	0	2	126	16,796	4	0	2	126
		R5S	15,693	4	0	2	118	17,242	4	0	2	130	17,242	4	0	2	130
		AFR	14,923	2	0	2	112	16,395	2	0	2	123	16,395	2	0	2	123
		AFRR90	15,065	3	0	3	113	16,551	3	0	3	124	16,551	3	0	3	124
		AFRL90	15,128	3	0	3	114	16,621	3	0	3	125	16,621	3	0	3	125

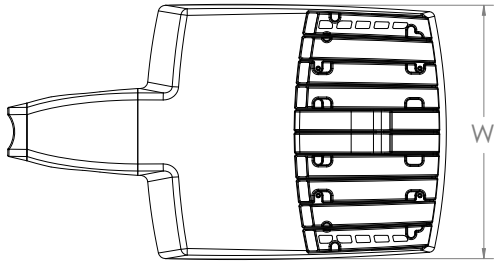


## Dimensions & Weights

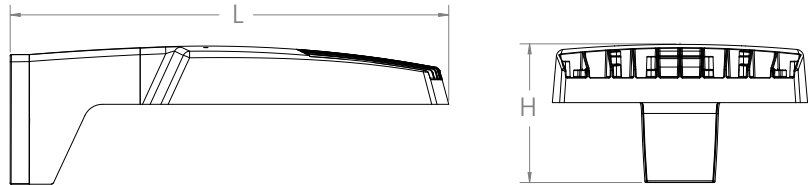
### Luminaire Weight by Mounting Type

Mounting Configuration	Total Luminaire Weight
SPA	22 lbs
RPA	24 lbs
MA	22 lbs
WBA	25 lbs
WBASC	28 lbs
IS	25 lbs
AASP	25 lbs
AARP	27 lbs
AAWB	28 lbs
AAWSC	31 lbs

#### RSX1 with Round Pole Adapter (RPA)



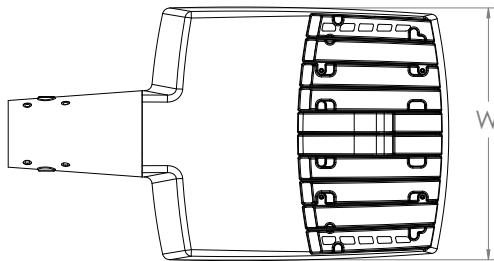
Length: 22.8" (57.9 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 7.2" (18.4 cm) Arm



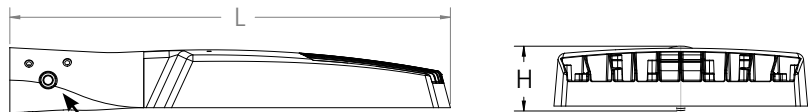
Note: RPA — Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.



#### RSX1 with Mast Arm Adapter (MA)

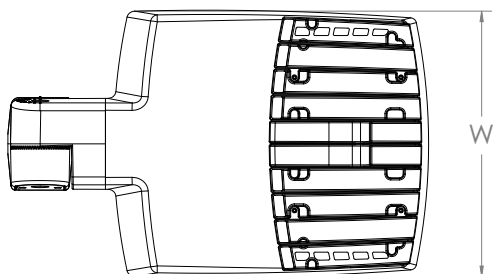


Length: 23.2" (59.1 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 3.5" (8.9 cm) Arm

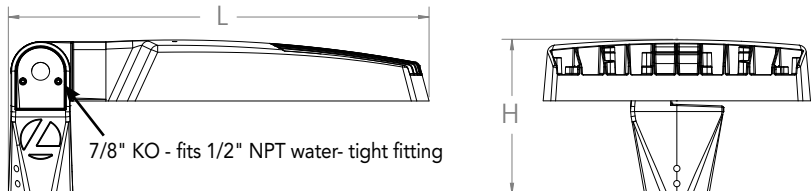


7/16" locking thru bolt/nut provided

#### RSX1 with Adjustable Slipfitter (IS)



Length: 20.7" (52.7 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 7.6" (19.3 cm) Arm

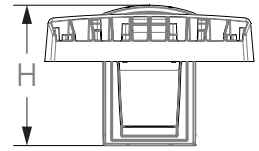
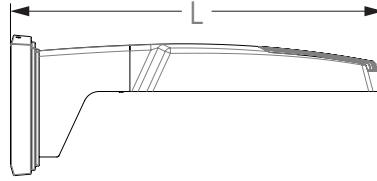
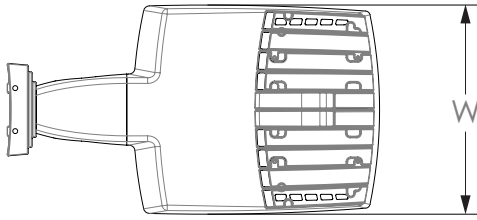


7/8" KO - fits 1/2" NPT water-tight fitting



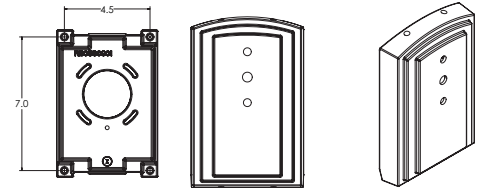
## Dimensions

### RSX1 with Wall Bracket (WBA)

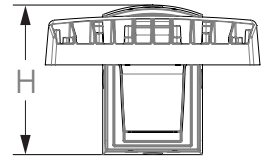
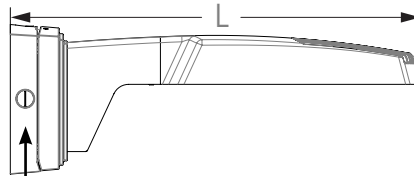
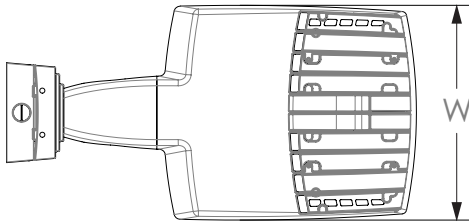


Length: 23.6" (59.9 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 8.9" (22.6 cm) Arm

#### Wall Bracket (WBA) Mounting Detail



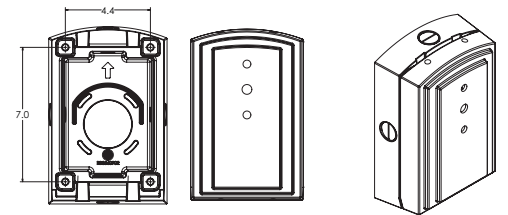
### RSX1 with Wall Bracket with Surface Conduit Box (WBASC)



3/4" NPT taps with plugs - Qty (4) provided

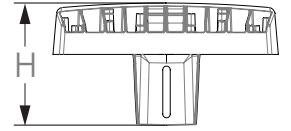
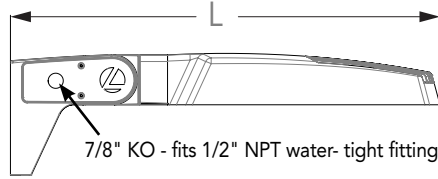
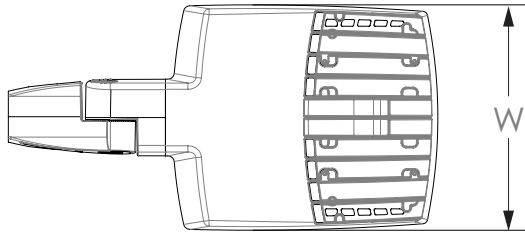
Length: 25.3" (64.3 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 9.2" (23.4 cm) Arm

#### Surface Conduit Box (SCB) Mounting Detail

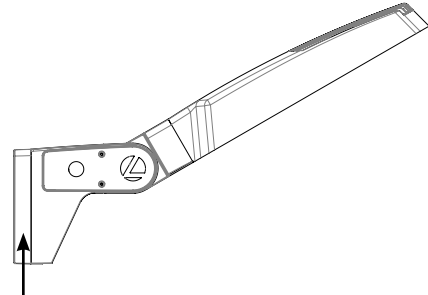


## Dimensions

### RSX1 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)



Length: 25.3" (65.3 cm) **AASP**  
 26.3" (66.8 cm) **AARP**  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 7.2" (18.2 cm) Arm



**NOTE:**  
 RPA - Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.

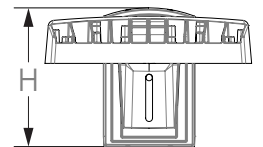
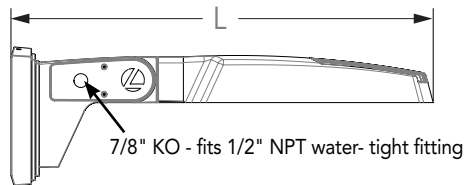
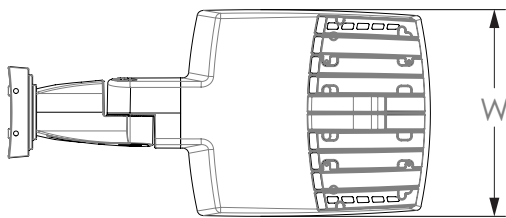


#### Notes

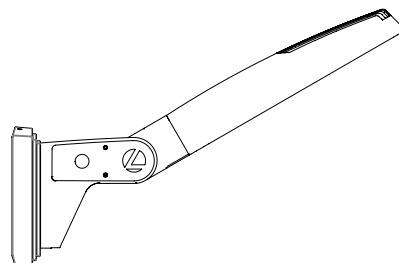
AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°.

AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

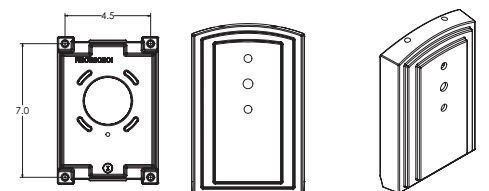
### RSX1 with Adjustable Tilt Arm with Wall Bracket (AAWB)



Length: 27.1" (68.8 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 8.9" (22.6 cm) Arm



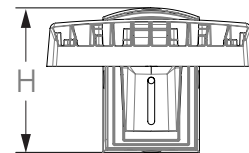
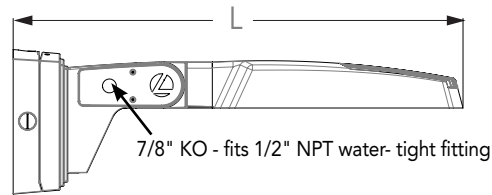
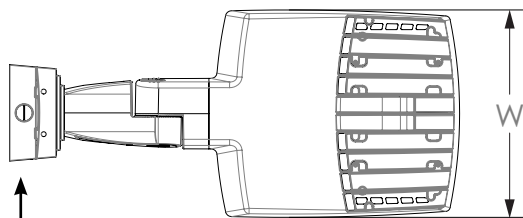
#### Wall Bracket (WBA) Mounting Detail



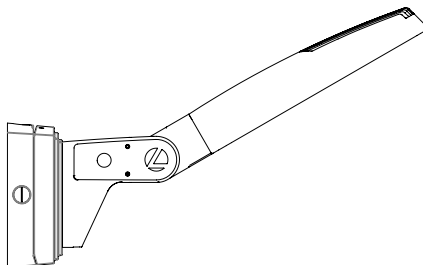


## Dimensions

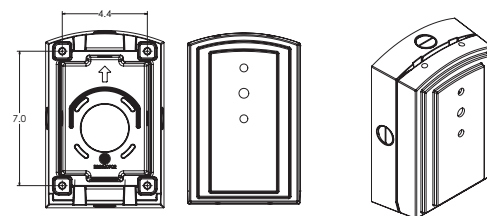
### RSX1 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)



3/4" NPT taps with plugs - Qty (4) provided

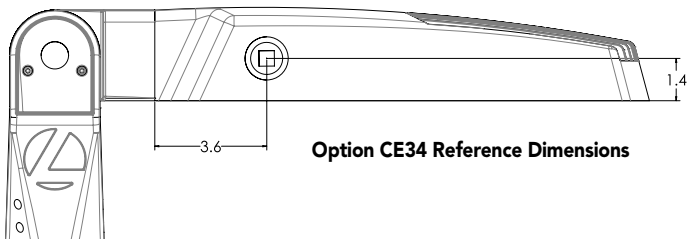


### Surface Conduit Box (SCB) Mounting Detail



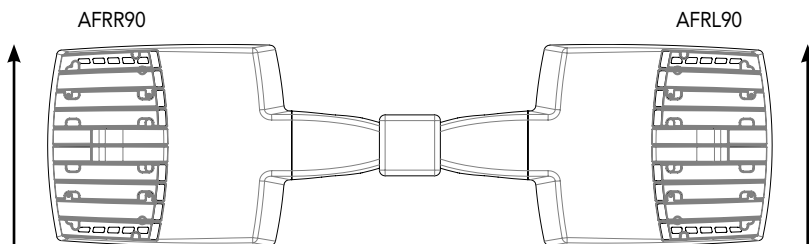
Length: 28.8" (73.2 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 9.2" (23.4 cm) Arm

### Additional Reference Drawings



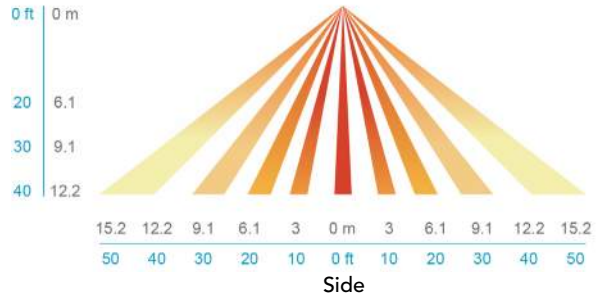
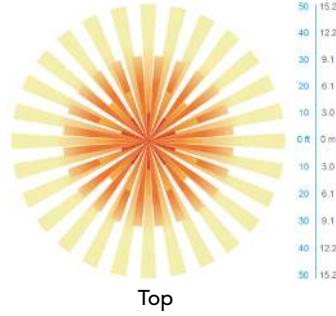
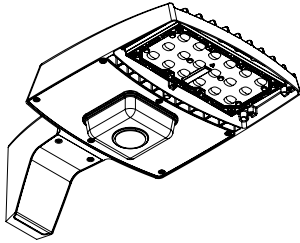
Option CE34 Reference Dimensions

### Automotive Front Row - Rotated Optics (AFRR90/R90)



(Example: 2@180 - arrows indicate direction of light exiting the luminaire)

## nLight Sensor Coverage Pattern NLTAIR2 PIRHN



Motion Sensor Default Settings - Option PIRHN						
Option	Dimmed State (unoccupied)	High Level (when occupied)	Photocell Operation	Dwell Time (occupancy time delay)	Ramp-up Time (from unoccupied to occupied)	Ramp-down Time (from occupied to unoccupied)
NLTAIR2 PIRHN	Approx. 30% Output	100% Output	Enabled @ 1.5FC	7.5 minutes	3 seconds	5 minutes

\*Note: NLTAIR2 PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App. Sensor coverage pattern shown with luminaire at 0°. Sensor coverage pattern is affected when luminaire is tilted.

## FEATURES & SPECIFICATIONS

### INTENDED USE

The RSX LED area family is designed to provide a long-lasting, energy-efficient solution for the one-for-one replacement of existing metal halide or high pressure sodium lighting. The RSX1 delivers 7,000 to 17,000 lumens and is ideal for replacing 70W to 400W HID pole-mounted luminaires in parking lots and other area lighting applications.

### CONSTRUCTION

The RSX LED area luminaire features a rugged die-cast aluminum main body that uses heat-dissipating fins and flow-through venting to provide optimal thermal management that both enhances LED performance and extends component life. Integral “no drill” mounting arm allows the luminaire to be mounted on existing pole drillings, greatly reducing installation labor. The light engines and housing are sealed against moisture and environmental contaminants to IP66. The low-profile design results in a low EPA, allowing pole optimization. All mountings are rated for minimum 1.5 G vibration load per ANSI C136.31. 3G Mountings: Include SPA, RPA, MA, IS, AASP, and AARP rated for 3G vibration. 1.5G Mountings: Include WBA, WBASC, AAWB and AAWSC rated for 1.5G vibration.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures superior adhesion as well as a minimum finish thickness of 3 mils. The result is a high-quality finish that is warrantied not to crack or peel.

### OPTICS

Precision acrylic refractive lenses are engineered for superior application efficiency, distributing the light to where it is needed most. Available in short and wide pattern distributions including Type 2, Type 3, Type 3S, Type 4, Type 4S, Type 5, Type 5S, AFR (Automotive Front Row), and AFR rotated AFR90 and ARFL90.

### ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. Light engines are IP66 rated. LED lumen maintenance is >L92/100,000 hours. CCT's of 3000K, 4000K and 5000K (minimum 70 CRI) are available. Class 1 electronic drivers ensure system power factor >90% and THD <20%. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### STANDARD CONTROLS

The RSX LED area luminaire has a wide assortment of control options. Dusk to dawn controls include MVOLT and 347V button-type photocells and NEMA twist-lock photocell receptacles.

### nLIGHT AIR CONTROLS

The RSX LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing with photocontrol functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell. See chart above for motion sensor default out-of-box settings. For more advanced wireless functionality, such as group dimming, nLight AIR can be commissioned using a smartphone and the easy-to-use CLAIRITY app. nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

### INSTALLATION

Integral “no-drill” mounting arm allows for fast, easy mounting using existing pole drillings. Select the “SPA” option for square poles and the “RPA” option to mount to round poles. Note, the RPA mount can also be used for mounting to square poles by omitting the RPA adapter plate. Select the “MA” option to attach the luminaire to a 2 3/8” horizontal mast arm or the “IS” option for an adjustable slipfitter that mounts on a 2 3/8” OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation. Can be tilted up to 90° above horizontal. Additional mountings are available including a wall bracket, adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications.

### LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only. U.S. Patent No. D882, 146S

### BUY AMERICAN

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

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://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.





# WEDGE1 LED

## Architectural Wall Sconce



Catalog Number

Notes

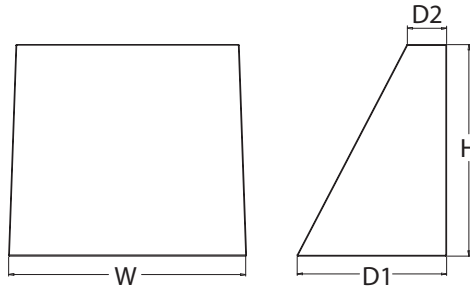
Type

**Type SW1**  
Exterior wall pack area light

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

### Specifications

- Depth (D1):** 5.5"
- Depth (D2):** 1.5"
- Height:** 8"
- Width:** 9"
- Weight:** 9 lbs  
(without options)



### Introduction

The WEDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WEDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WEDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

### WEDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)					
				P1	P2	P3	P4	P5	P6
WEDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WEDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WEDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WEDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

### Ordering Information

**EXAMPLE:** WEDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WEDGE1 LED	P1 P2	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K <sup>1</sup> 5000K	80CRI 90CRI	VF Visual comfort forward throw VW Visual comfort wide	MVOLT 347 <sup>2</sup>	<b>Shipped included</b> SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) <sup>5</sup> <b>Shipped separately</b> AWS 3/8inch Architectural wall spacer BBW Surface-mounted back box PBBW Premium surface-mounted back box (top, left, right conduit entry)

Options	Finish
E4WH <sup>3</sup> Emergency battery backup, CEC compliant (4W, 0°C min)	DDBXD Dark bronze
PE <sup>4</sup> Photocell, Button Type	DBLXD Black
DS Dual switching ( comes with 2 drivers and 2 light engines; see page 3 for details)	DNAXD Natural aluminum
DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	DWHXD White
BCE Bottom conduit entry for premium back box (PBBW). Total of 4 entry points.	DSSXD Sandstone
	DDBTXD Textured dark bronze
	DBLTXD Textured black
	DNATXD Textured natural aluminum
	DWHGXD Textured white
	DSSTXD Textured sandstone

### Accessories

Ordered and shipped separately.

- WDGEAWS DDBXD U WEDGE 3/8inch Architectural Wall Spacer (specify finish)
- WDGE1PBBW DDBXD U WEDGE1 Premium surface-mounted back box (specify finish)
- WSBBW DDBXD U Surface - mounted back box (specify finish)

### NOTES

- 1 50K not available in 90CRI.
- 2 347V not available with E4WH, DS or PE.
- 3 E4WH not available with PE or DS.
- 4 PE not available with DS.
- 5 Not qualified for DLC. Not available with E4WH.



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • [www.lithonia.com](http://www.lithonia.com)  
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WEDGE1 LED  
Rev. 04/15/20

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	10W	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0
		VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
P2	15W	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0
		VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

### Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	10W	0.082	0.049	0.043	0.038	--
	13W	--	--	--	--	0.046
P2	15W	0.132	0.081	0.072	0.064	--
	18W	--	--	--	--	0.056

### Lumen Multiplier for 90CRI

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

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

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647

### Lumen Ambient Temperature (LAT) Multipliers

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

Ambient	Lumen Multiplier
0°C / 32°F	1.03
10°C / 50°F	1.02
20°C / 68°F	1.01
25°C / 77°F	1.00
30°C / 86°F	0.99
40°C / 104°F	0.98

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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

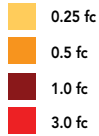
Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91



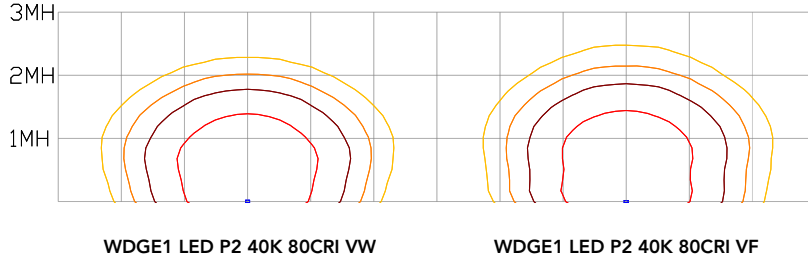
## Photometric Diagrams

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

### LEGEND



MH = 8ft  
Grid = 8ft x 8ft



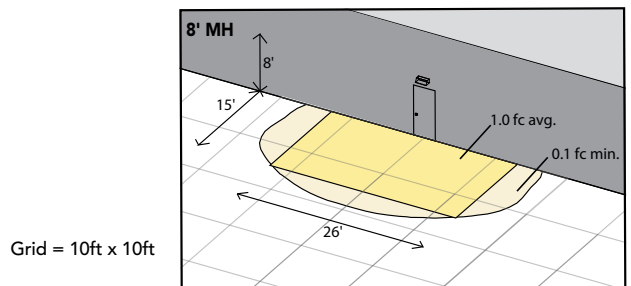
## Emergency Egress Options

### Emergency Battery Backup

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

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

The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E4WH and VF distribution.

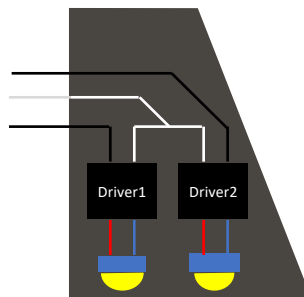


WDGE1 LED xx 40K 80CRI VF MVOLT E4WH

### Dual Switching (DS) Option

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

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





**E4WH – 4W Emergency Battery Backup**

D = 5.5"

H = 8"

W = 9"



**PBBW – Premium Back Box**

D = 1.75"

H = 8"

W = 9"



**BBW – Standard Back Box**

D = 1.5"

H = 4"

W = 5.5"



**AWS – 3/8inch Architectural Wall Spacer**

D = 0.38"

H = 4.4"

W = 7.5"

## FEATURES & SPECIFICATIONS

### INTENDED USE

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

### CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

### FINISH

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

### OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine consists of high-efficiency LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2).

### INSTALLATION

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

### LISTINGS

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

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/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.



## FEATURES & SPECIFICATIONS

**INTENDED USE** — Typical applications include corridors, lobbies, conference rooms and private offices.

**CONSTRUCTION** — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.

Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

**OPTICS** — LEDs are binned to a 3-step SDCM; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

**ELECTRICAL** — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumen maintenance at 60,000 hours.

**LISTINGS** — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product.

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

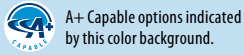
**WARRANTY** — 5-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://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.



Catalog Number	<b>Type R1</b> <b>6"</b> <b>Recessed</b> <b>Can Light</b>
Notes	
Type	



# LDN6

**6" Open and WallWash LED**  
**Non-IC**  
**New Construction Downlight**



### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** LDN6 35/15 L06AR LSS MVOLT EZ10

LDN6		Color temperature				Aperture/Trim Color				Finish		Voltage			
Series				Lumens <sup>1</sup>											
LDN6 6" round	27/	2700K	05	500 lumens	25	2500 lumens	L06	Downlight	AR	Clear	LSS	Semi-specular	MVOLT	Multi-volt	
	30/	3000K	07	750 lumens	30	3000 lumens									
	35/	3500K	10	1000 lumens	40	4000 lumens	LW6	Wallwash	WR <sup>2</sup>	White	LD	Matte diffuse	120	120V	
	40/	4000K	15	1500 lumens	50	5000 lumens									
	50/	5000K	20	2000 lumens											LS

Driver	Options		
GZ10 0-10V driver dims to 10%	SF <sup>4</sup> Single fuse	N80 <sup>8</sup> nLight™ Lumen Compensation	
GZ1 0-10V driver dims to 1%	TRW <sup>5</sup> White painted flange	JOT <sup>13</sup> Wireless room control with "Just One Touch" pairing	
D10 Minimum dimming 10% driver for use with JOT	TRBL <sup>5</sup> Black painted flange	NPS80EZ <sup>7</sup> nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).	
D1 Minimum dimming 1% driver for use with JOT	EL <sup>6</sup> Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	NPS80EZER <sup>7</sup> nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.	
EZ10 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	ELR <sup>6</sup> Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	HAO <sup>11</sup> High ambient option	
	ELSD <sup>6</sup> Emergency battery pack with self-diagnostics, integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	CP <sup>12</sup> Chicago Plenum	
	ELRSD <sup>6</sup> Emergency battery pack with self-diagnostics, remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	RRL <sup>___</sup> RELOC-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only in RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.com for the RELOC product specifications.	
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	E10WCP <sup>6</sup> Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB	NLTAIR2 <sup>9,10</sup> nLight® Air enabled	
	E10WCPR <sup>6</sup> Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDB	NLTAIRER2 <sup>9,10</sup> nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options	
EDAB eldoLED DALI SOLDRIVE dim to dark	NPP16D <sup>7</sup> nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	NLTAIREM2 <sup>9,10</sup> nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection. Available with battery pack options.	
	NPP16DER <sup>7</sup> nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	BAA Buy America(n) Act Compliant	
		90CRI High CRI (90+)	

Accessories: Order as separate catalog number.	
PS1055CP	FMC Power Sentry battery pack, T20 compliant, field installable, 10w constant power
<a href="#">EAC ISSM 375</a>	Compact interruptible emergency AC power system
<a href="#">EAC ISSM 125</a>	Compact interruptible emergency AC power system
GRA68 JZ	Oversized trim ring with 8" outside diameter
SCA6	Sloped Ceiling Adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D

- Notes**
- Overall height varies based on lumen package; refer to dimensional chart on page 3.
  - Not available with finishes.
  - Not available with emergency options.
  - Must specify voltage 120V or 277V.
  - Available with clear (AR) reflector only.
  - 12.5" of plenum depth or top access required for battery pack maintenance.
  - Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
  - Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ10 and EZ1 drivers.
  - Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.
  - NLTAIR2, NLTAIRER2 and NLTAIREM2 not recommended for metal ceiling installations.
  - Fixture height is 6.5" for all lumen packages with HAO.
  - Must specify voltage for 3000lm and above. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack option.
  - Must specify D10 or D1 driver. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.

# LDN6

## PHOTOMETRY

### Distribution Curve

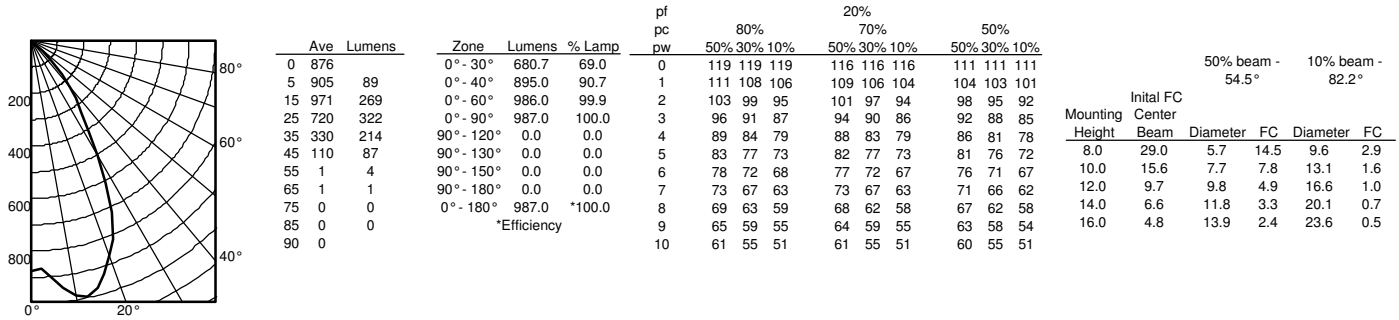
### Distribution Data

### Output Data

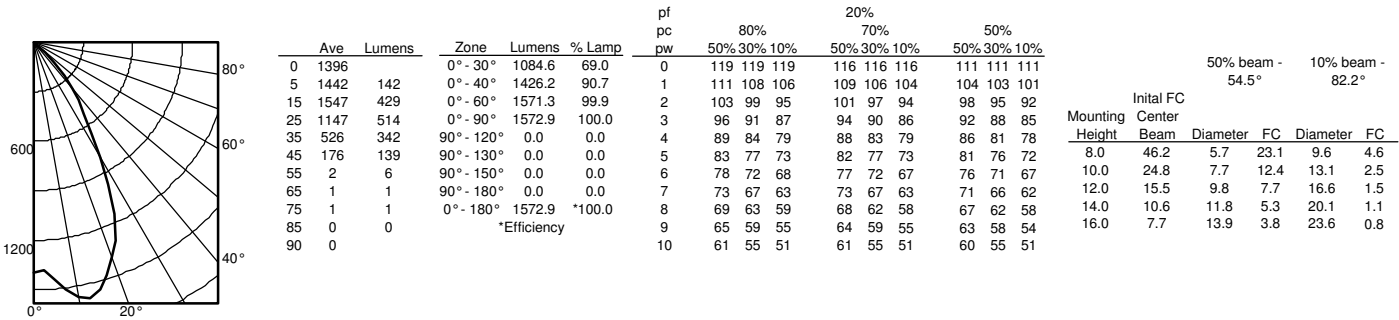
### Coefficient of Utilization

### Illuminance Data at 30" Above Floor for a Single Luminaire

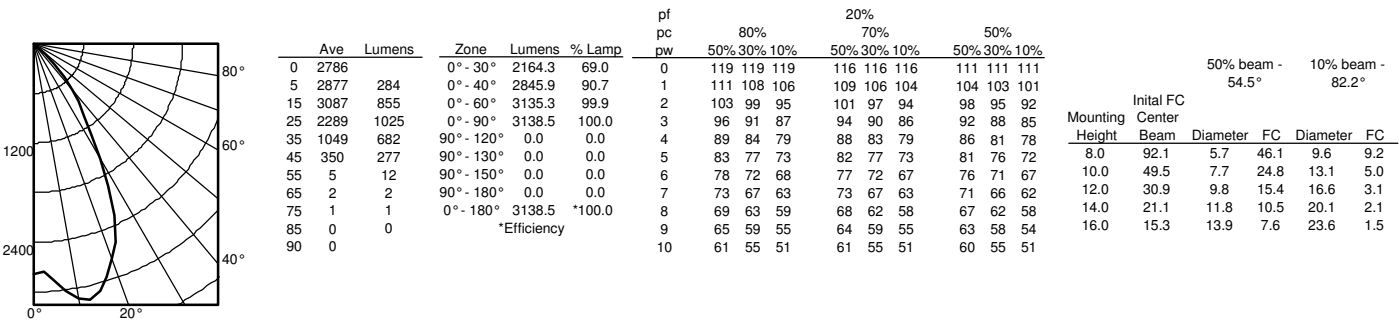
**LDN6 35/10 L06AR**, input watts: 10.44, delivered lumens: 987.10, LM/W = 94.54, spacing criterion at 0= 1.02, test no. ISF 30716P262.



**LDN6 35/15 L06AR**, input watts: 17.52, delivered lumens: 1572.9, LM/W = 89.77, spacing criterion at 0= 1.02, test no. ISF 30716P265.



**LDN6 35/30 L06AR**, input watts: 34.75, delivered lumens: 3138.5, LM/W = 90.31, spacing criterion at 0= 1.02, test no. ISF 30716P274.

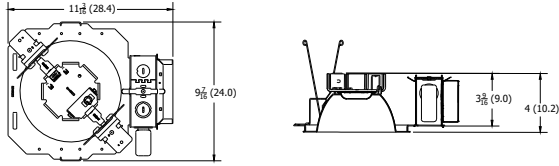




# LDN6

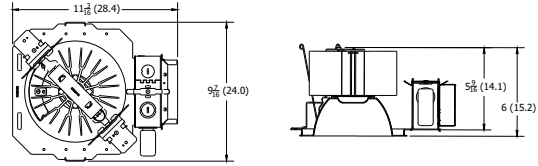
\* All dimensions are inches (centimeters) unless otherwise noted.

## LDN6 500 - 1500 LUMENS



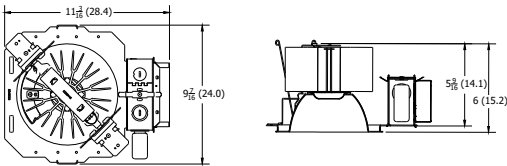
Aperture: 6-1/4 (15.9)  
Ceiling Opening: 7-1/8 (18.1)  
Overlap Trim: 7-1/2 (19.1)

## LDN6 2000 - 3000 LUMENS



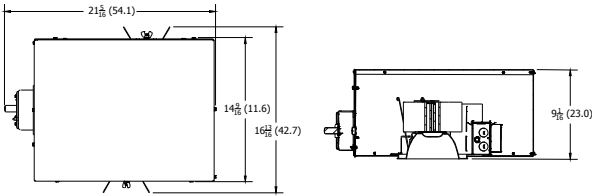
Aperture: 6-1/4 (15.9)  
Ceiling Opening: 7-1/8 (18.1)  
Overlap Trim: 7-1/2 (19.1)

## LDN6 4000 - 5000 LUMENS



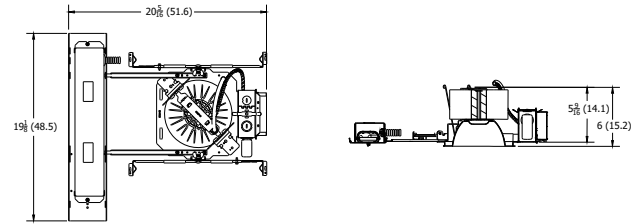
Marked Spacing: 24 x 24 x 10  
Aperture: 6-1/4 (15.9)  
Ceiling Opening: 7-1/8 (18.1)  
Overlap Trim: 7-1/2 (19.1)

## LDN6 CP



Aperture: 6-1/4 (15.9)  
Ceiling Opening: 7-1/8 (18.1)  
Overlap Trim: 7-1/2 (19.1)

## LDN6 EL



Marked Spacing above 3000 Lumens: 24 x 24 x 10  
Aperture: 6-1/4 (15.9)  
Ceiling Opening: 7-1/8 (18.1)  
Overlap Trim: 7-1/2 (19.1)

LDN6			
Nominal Lumens	Lumens	Wattage	Lm/W
500	527.9	5.8	90.5
750	758.1	8.9	85.1
1000	950.1	10.4	91.0
1500	1514	17.5	86.4
2000	2006	22.5	89.1
2500	2504	28.3	88.6
3000	3021	34.8	86.9
4000	4008	44.3	90.6
5000	4975	57.7	86.3

### HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at [Designlight Consortium](http://Designlight Consortium).

LUMEN OUTPUT MULTIPLIERS - FINISH			
	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

LUMEN OUTPUT MULTIPLIERS - CCT					
	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

### Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

ADDITIONAL DATA



The Sensor Switch JOT enabled solution offers a wireless, app-free approach to single room lighting control. JOT enabled products use Bluetooth® Low Energy (BLE) technology to enable wireless dimming and switching.

Diagram



LDN6 Series



Sensor Switch  
WSXA JOT

1. **Power:** Install JOT enabled fixtures and controls as instructed.
2. **Pair:** Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.
3. **Play:** Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.

COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DVTV	
	Diva® DVSCTV	
	Nova T® NTFTV	
	Nova® NFTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis OA2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALI.net Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	

**A+ Capable Luminaire**

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands’ specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



# LDN6

## EXAMPLE

Group Fixture Control\*

\*Application diagram applies for fixtures with eldoLED drivers only.

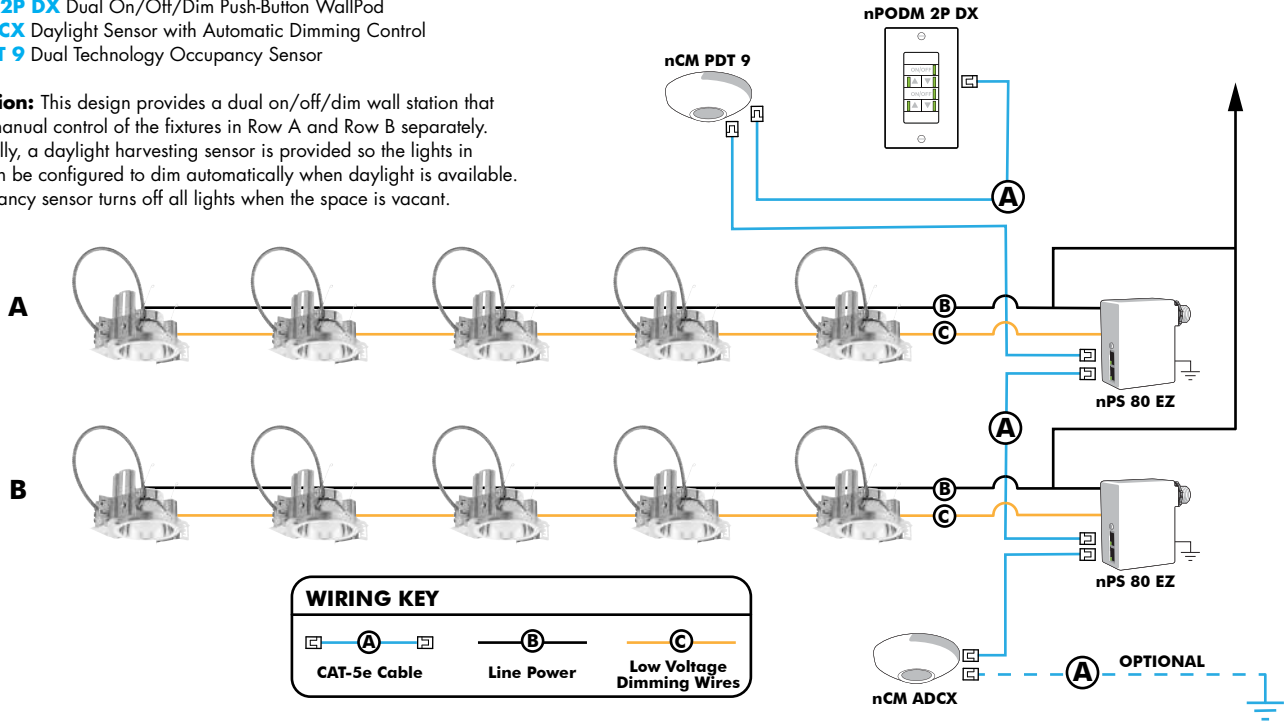
**nPS 80 EZ** Dimming/Control Pack (qty: 2 required)

**nPODM 2P DX** Dual On/Off/Dim Push-Button WallPod

**nCM ADCX** Daylight Sensor with Automatic Dimming Control

**nCM PDT 9** Dual Technology Occupancy Sensor

**Description:** This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in Row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.



## Choose Wall Controls

nLight offers multiple styles of wall controls - each with varying features and user experience.



**Push-Button Wallpod**  
Traditional tactile buttons and LED user feedback



**Graphic Wallpod**  
Full color touch screen provides a sophisticated look and feel

## nLight® Wired Controls Accessories:

Order as separate catalog number. Visit [www.acuitybrands.com/products/controls/nlight](http://www.acuitybrands.com/products/controls/nlight) for complete listing of nLight controls.

WallPod Stations	Model number	Occupancy sensors	Model Number
On/Off	nPODM (Color)	Small motion 360°, ceiling (PIR/dual Tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPOD DX (Color)	Large motion 360°, ceiling (PIR/dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX (Color)	Wide View (PIR/dual tech)	nWV 16 / nWV PDT 16
<b>Photocell controls</b>	<b>Model Number</b>	Wall Switch w/ Raise/Lower (PIR/dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	<b>Cat-5 cables (plenum rated)</b>	<b>Model Number</b>
		10', CAT5 10FT	CAT5 10FT J1
		15', CAT5 15FT	CAT5 15FT J1

## nLight® AIR Control Accessories:

Order as separate catalog number. Visit [www.acuitybrands.com/products/controls/nlightair](http://www.acuitybrands.com/products/controls/nlightair).

Wall switches	Model number
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH <sup>1</sup>

## Notes

1 Can only be ordered with the RES7Z zone control sensor version.

## nLight AIR

nLight AIR is the ideal solution for retrofit or new construction spaces where adding communication is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each Lithonia LDN Luminaire. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.



## Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome

