

Village of Mukwonago
Notice of Meeting and Agenda

PLAN COMMISSION MEETING
Tuesday, March 11, 2025

Time: **6:30 pm**

Place: **Mukwonago Municipal Building, Board Room, 440 River Crest Ct**

1. Call to Order

2. Roll Call

3. Comments from the Public

Please be advised, per Wisconsin Statute Sec. 19.84(2), information and comment will be received from the public by the Plan Commission. The Public Comment Session is granted to the public at the start of each Plan Commission meeting. The Public Comment Session shall last no longer than fifteen (15) minutes and individual presentations are limited to three (3) minutes per speaker. However, these time limits may be extended at the discretion of the Chief Presiding Officer. The Plan Commission may not respond to or have any discussion on information received during the public comment session unless it is placed upon the Agenda for a subsequent meeting. Public comments should be addressed to the Plan Commission as a body. Presentations shall not deal in personalities personal attacks on members of the Plan Commission, the applicant for any project or Village Employees. Comments shall not be used to engage others in a debate in this forum. All comments, questions and concerns should be presented in a respectful professional manner. Any questions to an individual member of the Plan Commission or Staff will be deemed out of order by the Presiding Officer.

4. Approval of Minutes

- 4.1 Approval of Minutes for Planning Commission meeting January 14, 2025
[2025114 Minutes draft](#)

5. Public Hearings

All persons interested in making comments about any of the public hearing items will be heard. Formal petitions and written comments regarding any of the public hearing items may be submitted tonight. During the public hearing(s), if you wish to be heard, the Plan Commission asks that you begin by stating your name and address, speak for no more than three minutes and attempt to avoid duplication. Each person speaking at the public hearing must sign the Public Hearing Appearance sign-in sheet before speaking. The sign-in sheet is available on the table located at the back of the room.

- 5.1 Public hearing on Conditional Use Permit for an expansion and modifications to Brooklife Church, located at 857 S. Rochester Street, Suite 300, Parcel MUKV 2009-978-009, applicant (Brooklife Church, Inc).
[Public Hearing Notice-Conditional Use-Brooklife Church](#)

6. New Business

Discussion and Possible Action on the Following Items

- 6.1 Discussion and possible recommendation to approve **Resolution 2025-03** Conditional Use and Prescribing Conditions for a building expansion of a religious assembly (Brooklife Church Inc.) on Parcel MUKV 2009-978-009, Mukwonago, WI
[Staff Report-20250304-Brooklife Church Expansion-SPAR and CU](#)

[RESOLUTION 2025-03 - Brooklife Church Expansion CU](#)

[2023-42 - Brooklife Addition Narrative.pdf](#)

[2020-94 - COMPLETE Brooklife Topo Survey.pdf](#)

[2023-42 - Architectural for Village.pdf](#)

[2023-42 - Brooklife Church Addition Civil.pdf](#)

[2023-42 - Brooklife Church Site Lighting Plan.pdf](#)

[2023-42 - Landscaping Plan.pdf](#)

[2023-42 - Lighting Cut Sheets.pdf](#)

- 6.2 Discussion and possible action to approve **PC-Resolution 2025-05** for a Site Plan and Architectural Review for Brooklife Church Expansion, Parcel MUKV 2009-978-009

[Staff Report-20250304-Brooklife Church Expansion-SPAR and CU](#)

[SPAR Application Brooklife Church Addition](#)

[PC RESOLUTION 2025-05 - Brooklife Church Expansion SPAR](#)

- 6.3 Discussion and possible approval of **PC-Resolution 2025-04** for a Site Plan and Architectural Review for Mukwonago Area School District High School New Football Stadium Scoreboard, Located at 385 E. Veterans Way, Parcel MUKV 1960-998-001
[Staff Report-20250304 -MASD-High School Athletic Score Board](#)
[PC RESOLUTION 2025-06 - MASD - High School Athletic Score Board](#)

- 6.4 Discussion and possible recommendation to amend Chapter 64 regarding Reader Board Signs to change the interval timing for an electronic message display change.

- 6.5 Status Update regarding Zoning Code
[Staff Report new zoning code 3-5-2025](#)

7. Adjournment

Membership:

Eric Brill, John Meiners, Karl Kettner, Tim Rutenbeck, Jason Wamser, Fred Winchowky, VACANT SEAT, and Village Planner (Advisory)

It is possible that a quorum of, members of other governmental bodies of the municipality may be in attendance at the above stated meeting to gather information. No action will be taken by any governmental body at the above stated meeting other than the governmental body specifically referred to above in this notice. Please note, upon reasonable notice, efforts will be made to accommodate the needs of individuals with disabilities through appropriate aids and services. For additional information or to request this service, contact the Municipal Clerk's Office, (262) 363-6420.

MINUTES OF THE PLAN COMMISSION MEETING

Tuesday, January 14, 2025

Time: 6:30pm

Place: Mukwonago Municipal Building/Boar Room, 440 River Crest Court, Mukwonago, WI 53149

Call to Order

Meeting Called to order by President Winchowky at 6:30pm

Roll Call

Commissioners present:

Fred Winchowky, Village President

Eric Brill

Tim Rutenbeck

John Meiners

Karl Kettner

Jason Wamser

Also present:

Diana Dykstra, Clerk/ Treasurer/ Administrator

Peter Gesch, Village Planner

Shay Zervas, Deputy Clerk/ Treasurer

Comments from the Public

No Comments

Closed 6:31pm

Approval of Minutes

Meiners/Rutenbeck motion to approve minutes from November 12, 2024, regular meeting. Unanimously carried.

Public Hearings

Public hearing on Conditional Use Permit for modifications to and the construction of a building addition for the Municipal Water works Well No. 4, located at 525 Roberts Drive, Parcel MUKV 1977-998-001, applicant (The Village of Mukwonago Utilities Department)

No Comments

Closed 6:33pm

New Business

Discussion and possible recommendation to approve Resolution 2025-01 Conditional Use Permit for modifications to and the construction of a building addition for the Municipal Waterworks Well No. 4, located at 525 Roberts Drive, Parcel MUKV 1977-998-001, applicant (The Village of Mukwonago Utilities Department).

Planner Gesch explained that the location of the Municipal Waterworks Well No.4 zoned in the Public and Semi-Public District requires a Conditional Use Permit.

Meiners/Rutenbeck motioned to recommend to Village Board to approve **Resolution 2025-01** Conditional Use Permit for modifications to and the construction of a building addition for the Municipal Waterworks Well No. 4, located at 525 Roberts Drive, Parcel MUKV 1977-998-001, applicant (The Village of Mukwonago Utilities Department)., Unanimously carried.

Discussion and possible action to approve PC-Resolution 2025-01 for a Site Plan and Architectural Review for construction of a building addition for the Municipal Waterworks Well No. 4, Located at 525 Roberts Dr, Parcel MUKV 1977-998-001

Planner Gesch gave an overview of Site Plan and Architectural Review and referenced to prior planning commission meeting where the Utility Director Castle gave an overview of possible building plans. The project would consist of removal of part of existing building and adding an addition for well project and other site improvements (rerouting of utilities and widening driveway) Samples of 2 types of brick building material are provided.

Utilities Director Castle explained that the preferred brick would be the darker of the 2 samples for easier maintenance and look.

Commissioner Wamser recommends a second color brick for a band around the building or a smooth brick to enhance the sign.

Trustee Meiners suggested combining both samples of brick to accommodate Commissioner Wasmer's recommendation of darker brick for building and lighter brick for the band.

President Winchowky asked if a different color brick band would change the cost of project.

Utilities Director Castle stated that the cost of the stone/bricks in different colors are similar in cost and should not affect cost of project. Castle asked if there was a preferred choice between the stone style or brick style. And if they would like a darker building with a lighter stripe or vis versa.

The majority of planning commission board liked the stone style over the brick and a darker building with a lighter band.

Trustee Brill asked if current signage will be reused.

Utilities Director Castle stated that there will be new signage to reflect what the current building is used for, it is now a treatment facility and well. There will also be down lighting added to the sign.

Wamser/Meiners motion to approve **PC-Resolution 2025-01** a Site Plan and Architectural Review for construction of a building addition for the Municipal Waterworks Well No. 4, Located at 525 Roberts Dr, Parcel MUKV 1977-998-001, unanimously carried

Discussion and possible action to approve PC-Resolution 2025-02, for a Site Plan and Architectural Review for Rivers Edge Car Wash, Located at 811 S. Rochester St, Parcel MUKV 2009-978-004

Planner Gesch gave an overview of the addition of vacuum sites located on the southeast side of the site and excess and setbacks would be addressed. They will be providing additional landscaping to replace a couple of mature trees being removed. The vacuums being added are similar to the current vacuums used on site.

Meiners/Rutenbeck motion to approve PC-Resolution 2025-02 for a Site Plan and Architectural Review for Rivers Edge Car Wash, Located at 811 S. Rochester St, Parcel MUKV 2009-978-004, Unanimously carried

Discussion and possible approval of PC-Resolution 2025-03 for a Site Plan and Architectural Review for St. James Church addition, located at 830 E. Veterans Way, Parcel MUKV 1964-988-002

Planner Gesch explained that this Site Plan and Architectural Review is for an addition to the existing church and school that is about 8,101 sq ft. This will involve interior remodel and upgrades in addition to building addition. No exterior site changes are proposed. There are minor comments from Utilities regarding water service locations and are working with civil engineer. The exterior of the addition will match as close as possible to existing buildings.

President Winchowky would like to know how they are planning on matching existing exterior to new exterior. He asked if they could elaborate on the new sprinkler/suppression system that was stated in the Site Plan and Architectural Review. David Baum with Schroeder & Holt Architects representative for St. James stated that contractors and subcontractors were just brought on board, and they are out resourcing for matching brick and metal panels for exterior. They are willing to bring in samples to planning commission for approval. They have a sprinkler contractor that is designing the system for the new addition and the existing building. They will be adding a new fire alarm system as well.

Village Inspector Rutenbeck stated that the fire suppression will go to state for approval and that our local Fire Department is happy with the addition of fire suppression to the addition and existing building.

Meiners/Brill motion to approve PC-Resolution 2025-03 for a Site Plan and Architectural Review for St. James Church addition, located at 830 E. Veterans Way, Parcel MUKV 1964-988-002, Unanimously carried

Discussion and possible approval of PC-Resolution 2025-04 for the extension of the approval of Site Plan and Architectural Review for Performance Water Products, INC. at 823 Swan Dr, Parcel MUKV 1970-999-026

Planner Gesch stated that planning commission approved a Site Plan and Architectural Review for building addition back on May 14, 2024. They were not able to obtain permits within the defined time defined in the approved SPAR. They are asking for an extension of nine months to obtain permits. They plan to start the project in spring 2025 and there will be no changes to the project plans.

Brill/Meiners motioned to approve PC-Resolution 2025-04 for the extension of the approval of Site Plan and Architectural Review for Performance Water Products, INC. at 823 Swan Dr, Parcel MUKV 1970-999-026, Unanimously carried

Status Update regarding Zoning Code

Building Inspector Rutenbeck gave an overview of what he, Corry Eifert and Tim Schweche have gone over in the Zoning Code. They have reviewed 2 of the 3 appendixes. Explained the importance of these appendixes and they started with appendixes C. He gave an overview of the current code, and the groups recommended changes and stated that we agree on these changes. He said that the group will be meeting and finishing the land use tables before next month's meeting.

Trustee Meiners asked for definition of "we are in agreement" on the change.

Building Inspector Rutenbeck stated that Tim Schweche, Corry Eifert and himself constituents as "We". And that they are in agreement that we should not allow accessory dwellings on the same property as the primary dwelling. Explained that accessory dwellings are a second livable space on the same property. This leaves too many open areas of concern.

Trustee Meiners agreed that there should not be accessory dwellings on the property. President Winchowky did ask for a definition of accessory dwellings.

Administrator Dykstra explained that the draft Zoning Code has been submitted by Tim Schweche to the Village and given to the building department to review. Building inspectors have been meeting weekly with Tim Schweche to review the draft and answer questions. Building Inspector Rutenbeck has brought forward these items tonight for information only. In order to move forward with any of these items the proper steps will need to be taken, public hearing, notices and agenda properly.

Adjournment

Meeting adjourned at 7:06 pm

Respectfully Submitted,
Shay Zervas
Deputy Clerk/Treasurer

NOTICE OF PUBLIC HEARING
VILLAGE OF MUKWONAGO PLAN COMMISSION

The Village of Mukwonago Plan Commission will conduct a public hearing on Tuesday, March 11, 2025, for the following:

Conditional Use Permit for an expansion and modifications to Brooklife Church, located at 857 S. Rochester Street, Suite 300, Parcel MUKV2009978009, applicant (Brooklife Church, Inc).

The meeting will be held in the Board Room of the Village Hall located at 440 River Crest Court, Mukwonago, Waukesha and Walworth Counties. The meeting starts at 6:30PM and the public hearing will be conducted in the order listed on the meeting agenda.

For information regarding this public hearing, contact the Village Planner at planner@villageofmukwonago.gov or 262-363-6420 during regular office hours. All interested parties will be heard.

Notice was sent to property owners within 250 feet of the property and surrounding municipality Clerks within 1000 feet of the Village of Mukwonago boundary.

Upon reasonable notice, efforts will be made to accommodate the needs of individuals with disabilities through appropriate aids and services. For additional information or to request this service, please contact Shay Zerfas, at 262-363-6420.

VILLAGE OF MUKWONAGO
Shay Zerfas, Deputy Clerk-Treasurer

Legal notice to be published in the *Waukesha Freeman* on February 25, 2024 and March 4, 2025.

PLAN COMMISSION STAFF REPORT

TO: Village of Mukwonago Plan Commission

FROM: Peter Gesch, P.E., Ruekert & Mielke, Inc.

REPORT DATE: March 4, 2025

MEETING DATE: March 11, 2025, 6:30 P.M.

SUBJECT: Brooklife Church Expansion–Site Plan & Architectural Review & Conditional Use

BASIC INFORMATION	
Project:	Brooklife Church Expansion
Applicant:	Brooklife Church, Inc.
Consulting Engineer:	Abacus Architects Inc.
Consulting Architect:	Abacus Architects Inc.
Request:	Site Plan & Architectural Review & Conditional Use
Staff Recommendation:	Approve with Conditions

PARCEL DATA/CHARACTERISTICS	
Tax Key:	MUKV2009978009
Acreage:	10.86 Acres
Current Use:	Religious Assembly
Proposed Use:	Religious Assembly
Reason for Request:	Expansion to Church Building
Land Use Classification:	Business
Zoning Classification:	B-2 – General Business District

Project Summary & Overview

Brooklife Church Inc. is looking to construct a building addition on the north side of the existing church building. This building addition includes a gymnasium, concession, coffee bar lounge and a gathering space room. In addition to the building expansion, there will be an expansion to the parking availability in the complex. On the south side of the property, a new parking lot will be proposed to accommodate the increased size of the building. The east side of the complex has a parking lot that will be re-designed and re-stripped to maximize efficiency. The zoning classification of the site will remain in the B-2 General Business District.

The applicant has requested a variance for the requirement of the Village's minimum parking stall dimension requirements. The explanation is included in the application documents.

~Mukwonago, Village of > 12-10234 > Staff Report-20250304-Brooklife Church Expansion-SPAR and CU~

The applicant is not required to provide additional post-construction storm water management beyond the existing storm water management pond on the far north end of the Brooklife Church property. Village staff have worked with the applicant to review the requirements for greenspace requirements and provide additional upstream pre-treatment of parking lot runoff to aide in the treatment of site storm water runoff. The applicant is installing an “Up-Flo” storm catch basin filter that will assist in filtering out total suspended solids from the reconfiguration of the site.

In addition to the site plan and architectural review, the modifications and expansion of the current use requires a re-application for a conditional use permit.

Conditional Use Request

Attached to this staff report is the justification questions for a Conditional Use Permit that have been answered by the applicant. The Planning Commission shall take these into consideration when making their decisions.

Conditional Use Process / Findings

The established review procedures are that the Plan Commission shall hold a public hearing and make a recommendation to the Village Board whom makes the final decision.

Following the close of the public hearing, the Plan Commission may recommend (1) approval, (2) approval with conditions, or (3) denial.

If approval is recommended, the Plan Commission can recommend conditions deemed necessary to protect public health, safety, and welfare. The Plan Commission, in passing on the matter, will need to make the following determinations consistent with Section 100-354 of Mukwonago’s Zoning Regulations:

1. The establishment, maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety or welfare of the Village.
2. The uses, values and enjoyment of other property in the surrounding neighborhood that are already permitted shall be, in no foreseeable manner, substantially impaired or diminished by the establishment, maintenance or operation of the conditional use.
3. The establishment, maintenance or operation of the conditional use is compatible with surrounding properties, whether in the same or different zoning districts. In making this determination, the Plan Commission and Village Board must determine whether the petitioner has demonstrated there are no adverse effects on surrounding properties or that potentially adverse effects have been eliminated or reduced to an acceptable level. Approaches that could be employed to mitigate potentially adverse effects will depend on the particular circumstances but may include:
 - a. Adjusting the location of the use, or parts thereof, on the subject property;
 - b. Limiting hours of operation;
 - c. Limiting the size or scope of the use, or parts thereof;
 - d. Controlling how the use is managed on an ongoing basis;
 - e. Providing additional landscaping;
 - f. Providing additional screening; and
 - g. Limiting operations conducted out-of-doors, if otherwise allowed
4. The establishment of the conditional use will not impede the normal and ordinary development and improvement of the surrounding property for uses permitted within the district and/or which are consistent with the standards in the Comprehensive Plan.

~Mukwonago, Village of > 12-10234 > Staff Report-20250304-Brooklife Church Expansion-SPAR and CU~

5. Adequate utilities, access roads, drainage and other necessary site improvements have been or are being made to accommodate the use.
6. Adequate measures have been taken or will be taken providing ingress and egress to minimize traffic congestion on public streets so as not to diminish the level of service of any intersection which is impacted by traffic arising from the conditional use.

In addition, the property owner / tenant has shown compliance with the requirements set forth in the Village's zoning regulations for specified use.

The Village Board will carefully review the recommendation of the Plan Commission and concurs with the Plan Commission's findings set forth above, provided the conditional use is operated pursuant to the conditions of approval set forth in this order.

These findings are incorporated into the draft conditional use order which is attached.

The Plan Commission shall approve a conditional use application if the terms and conditions of the zoning regulations are met. However, in the event the terms and conditions of the ordinance are not consented to and complied with by the applicant, the Commission may deny the application. In addition, the Commission may deny the application or place conditions on it if substantial evidence, as defined in §62.23(7) Wis. Stats. is presented. That evidence must demonstrate the inability of the applicant to comply with or meet the conditions of the zoning regulations or that the conditions to be applied by the Plan Commission are necessary to protect the public health, safety or welfare of the community based upon the presentation of substantial evidence. Potential motion for approval to Recommend to the Village Board approval of the project as a conditional use as set forth in the attached conditional use order as drafted, provided the Village Attorney approves the final form of the conditional use order.

Staff Review

Engineering:	Final Civil plan will need to be stamped by PE. Storm water is addressed per project summary above. Plan Commission should review parking stall dimension variance request.
Public Works	No comments at this time.
Utilities	No comments at this time.
Police	No comments at this time.
Fire	Detection and Suppression systems will need to be extended to the new building area. Applicant will need to submit calculations that the system can cover the demand for the suppression.
Building Inspection	Signage must comply with the Village's sign code. More comments may be forthcoming with submittal of more detailed site signage. Condition in resolution that signage will be reviewed at the time of sign permit application.
Planning	New landscaping is being provided to comply with the landscaping requirements for the zoning district. Adequate landscaping exists to the

~Mukwonago, Village of > 12-10234 > Staff Report-20250304-Brooklife Church Expansion-SPAR and CU~

north of the property. Lighting plan will need to be revised to demonstrate zero footcandles of light at all property lines.

Recommended Action

Conditional Use Permit

Staff recommends the Planning Commission recommend to the Village Board approval of a conditional use permit as set forth in the provided resolution.

To – Grant a Conditional Use Permit for a Religious Assembly facility with the following on-going conditions deemed necessary to protect the health, safety, and welfare:

1. Ongoing conditions of approval. The following conditions shall constitute an ongoing obligation:
 - a. Any modifications to the site, buildings, site improvements, shall require the conditional use application being updated.
2. The following conditions are also true and are consistent with Section 100-354 of Mukwonago's zoning regulations:
 - a. The establishment, maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety or welfare of the Village.
 - b. The uses, values and enjoyment of other property in the surrounding neighborhood that are already permitted shall be, in no foreseeable manner, substantially impaired or diminished by the establishment, maintenance or operation of the conditional use.
 - c. The establishment, maintenance or operation of the conditional use is compatible with surrounding properties, whether in the same or different zoning districts.
 - d. The establishment of the conditional use will not impede the normal and ordinary development and improvement of the surrounding property for uses permitted within the district and/or which are consistent with the standards in the Comprehensive Plan.
 - e. Adequate utilities, access roads, drainage and other necessary site improvements have been or are being made to accommodate the use.
 - a. Adequate measures have been taken or will be taken providing ingress and egress to minimize traffic congestion on public streets so as not to diminish the level of service of any intersection which is impacted by traffic arising from the conditional use.

Site Plan and Architectural Review

Staff Recommends the Planning Commission Approve a resolution for the Site Plan and Architectural Review, as set forth in the attached resolution with the included conditions.

Attachments

1. Application and Development Information
2. Plans and Site Drawings

RESOLUTION 2025-03

Village of Mukwonago Order Granting a Conditional Use and Prescribing Conditions for a building expansion of a religious assembly (Brooklife Church Inc.) on Parcel MUKV2009978009, Mukwonago, WI

WHEREAS, BROOKLIFE CHRUCH INC. (hereinafter "property owner") owns the property identified MUKV2009978009, (hereinafter "subject property") in the Village of Mukwonago, more particularly described as follows:

PARCEL 1 CERT SURV 6592 VOL 55/1 REC AS DOC# 1683246 PT NE1/4 SEC 35 & PT NW1/4 SEC 36 T5N R18E :: ALSO INCLUDING EASEMENT AS DESC IN DOC# 4260964 :: SUBJECT TO EASEMENT TO STH 83 AS SHOWN ON CERT SURV 6592 :: EX DOC# 2689796 :: EX DOC# 2689797 :: EX CERT SURV 11551 :: INCLUDES ACCESS EASEMENT AS DESC IN DOC# 4276257 :: DOC# 4260963

WHEREAS, the property owner has, consistent with the Village of Mukwonago's zoning regulations, submitted a conditional use application for a building expansion of a religious assembly (Brooklife Church Inc.) per Section 100-251, and

WHEREAS, upon receipt of the petition submitted by the property owner and future purchaser, the Village Clerk properly referred such petition to the Plan Commission; and

WHEREAS, allowing for required public notice, the Plan Commission conducted a public hearing on March 11, 2025, to consider the petitioner's request; and

WHEREAS, members of the public in attendance were given ample opportunity to provide comment regarding the petitioner's request; and

WHEREAS, the Plan Commission passed a motion recommending to the Village Board that the conditional use be approved subject to certain conditions; and

WHEREAS, the Plan Commission, in passing on the matter, has made the following determinations consistent with Section 100-354 of Mukwonago's zoning regulations:

1. The establishment, maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety or welfare of the Village.
2. The uses, values and enjoyment of other property in the surrounding neighborhood that are already permitted shall be, in no foreseeable manner, substantially impaired or diminished by the establishment, maintenance or operation of the conditional use.
3. The establishment of the conditional use will not impede the normal and ordinary development and improvement of the surrounding property for uses permitted within the district and/or which are consistent with the standards in the Comprehensive Plan.
4. Adequate utilities, access roads, drainage and other necessary site improvements have been or are being made to accommodate the use.
5. Adequate measures have been taken or will be taken providing ingress and egress to minimize traffic

Return to:

Lana Kropf, Clerk-Treasurer
Village of Mukwonago
440 River Crest Court
Mukwonago, WI 53149

Parcel Number: MUKV 2009978009

congestion on public streets so as not to diminish the level of service of any intersection which is impacted by traffic arising from the conditional use.

In addition, the property owner has shown compliance with the requirements set forth in the Village's zoning regulations for the specified use.

WHEREAS, the Village Board has carefully reviewed the recommendation of the Plan Commission and concurs with the Plan Commission's findings set forth above, provided the conditional use is operated pursuant to the conditions of approval set forth in this order.

NOW THEREFORE, IT IS HEREBY DETERMINED AND ORDERED AS FOLLOWS:

1. **Authorized uses.** Subject to the terms and conditions of this approval and the sections of the zoning code that apply, the property owner is authorized to construct a building addition for a religious assembly (Brooklife Church Inc.).
2. **Issuance of permit required.** The zoning administrator is authorized to issue the property owner a conditional use permit when all conditions enumerated in section 3 have been satisfied to his or her satisfaction. Such permit is the last approval before the property owner/tenant can begin to establish the use as authorized herein.
3. **Initial conditions of approval.** The following conditions shall be satisfied prior to the issuance of the conditional use permit:
 - a. The property owner must submit site/architectural plans to the Village for review and obtain approval of the same within 9 months of the date of this decision.
 - b. The property owner must accept the terms and conditions of this conditional use order in its entirety in writing within 6 months of the date of this decision. Prior to such expiration, the property owner may request an extension to this time period and the Village Clerk may approve an extension with good cause.
 - c. This order must be recorded against the subject property in the Waukesha County register of deeds office (only if subsections 3(a) through 3(b) have been satisfied).

In the event the requirements enumerated in subsections 3(a) and 3(b) above are not satisfied, this order shall automatically be null and void without any further action by the Village of Mukwonago on the aforementioned date.

4. **Ongoing conditions of approval.** The following conditions shall constitute an ongoing obligation:
 - a. Any modifications to the site, buildings, site improvements shall require the conditional use application being updated.
5. **Expansion or changes.** The conditional use hereby authorized shall be confined to the subject property without extension or expansion. Any expansion or change in use shall require issuance of a new conditional use approval pursuant to the requirements in effect at the time of application.
6. **Modification of property boundary lines.** The property owner shall not change the size and/or shape of the subject property by any means without the approval of the Village Board. If the Village Board determines that a proposed change is substantial with regard to the overall size of the parcel and/or configuration, such change shall require issuance of a new conditional use approval pursuant to the requirements in effect at the time of application.
7. **Plans and related matters.** Unless otherwise expressly stated herein, plans that are specifically required by this conditional use order may be amended upon the prior approval of the Plan Commission if the

Plan Commission finds the amendment to be minor and consistent with the conditional use order and permit. Any change in any plan that the Plan Commission feels, in its sole discretion to be substantial, shall require a new conditional use approval and all procedures in place at the time must be followed.

8. **Inspection.** The property owner shall allow Village of Mukwonago staff, officials, and other authorized agents to inspect the subject property, at any reasonable time and for any proper purpose related to compliance with this conditional use order.

9. **Discontinuance.** Should the conditional use be discontinued in use for 365 consecutive days the use shall be terminated as set forth in the Village of Mukwonago's zoning regulations.

10. **Private rights.** This approval is given under the Village of Mukwonago's zoning regulations and is not to be interpreted to abrogate any private rights other property owners may have pursuant to deed restrictions or restrictive covenants.

11. **Interpretation.** If any aspect of this conditional use order is in conflict with any other aspect of the conditional use order, the more restrictive provisions shall be controlling, as determined by the Plan Commission.

12. **Other permits.** This order shall not be deemed to constitute a building permit, or constitute any other license or permit required by Village ordinance, or other local, state, or federal law.

13. **Severability.** In the event a court of competent jurisdiction determines that a paragraph or phrase of this conditional use order is unlawful, illegal, or unconstitutional, said determination as to the particular phrase or paragraph shall not void the rest of the conditional use order and the remainder shall continue in full force and effect.

14. **Heirs, successors, and assigns.** This conditional use order shall be binding upon the property owner and their heirs, successors, and assigns. Upon a change in ownership, the property owner shall notify the Village Clerk.

15. **Ongoing review.** This conditional use may be reviewed by the Plan Commission with notice to the property owner at any time upon complaint or upon Plan Commission initiative. If it is determined that the authorized use is no longer compatible, or that the provisions of this approval have not been complied with, the Village Board may revoke or amend this order after recommendation by the Plan Commission and holding of a public hearing.

16. **Amendment.** The property owner may propose an amendment to this conditional use order at anytime by submitting a written petition to the Village Clerk, which shall be reviewed pursuant to the requirements in effect at the time of application.

17. **Violation.** Any violation of this order may be treated as a violation of Mukwonago's zoning regulations and each day of each violation of each condition herein shall be treated as a separate violation.

18. **Acceptance.** GRANTEES hereby accept the said Conditional Use Grant and covenant strictly to comply with all the terms and conditions thereof. GRANTEES acknowledge that, in accordance with the provisions of the Zoning Code, failure to comply with any conditions of the Conditional Use Grant is cause for the termination of said Grant by the Village. GRANTEES also acknowledge that approval of the Conditional Use Grant allows the appropriate Village officials to conduct reasonable and routine inspections of the property. This Covenant shall run with the land and shall be binding on the GRANTEES and all persons claiming any estate or interest in the Premises by, through or under the GRANTEES, as long as the said Premises are used as described in the Conditional Use Grant

Approved this 19th day of March, 2025.

BY THE VILLAGE BOARD OF THE VILLAGE OF MUKWONAGO

Fred Winchowky, Village President

Attest:

Lana Kropf, Village Clerk-Treasurer

STATE OF WISCONSIN, WAUKESHA COUNTY

Personally came before me this ____ day of _____ 2025, the persons described above, Fred Winchowky, Village President, and Lana Kropf, Village Clerk, to me known to be the persons who executed the foregoing instrument and to me known to be such Village President and Village Clerk of the Village of Mukwonago and acknowledged that they executed the foregoing instrument as such officers of said municipal corporation by its authority and pursuant to the authorization by the Village Board from their meeting on the ____ day of _____, 2025.

NOTARY PUBLIC

My Commission Expires:

The remainder of this page left intentionally blank.

Acceptance by Property Owner

I, _____ verify that I am an authorized agent for BROOKLIFE CHURCH INC accepts the terms stated herein.

Dated this _____ day of _____, 2025

_____, agent

STATE OF WISCONSIN, WAUKESHA

Personally, came before me this _____ day of _____, 2025, the above-named person, _____ to me known to be the person who executed the foregoing instrument and acknowledged the same.

NOTARY PUBLIC

My Commission Expires:

Drafted by Peter Gesch, Contracted Village Planner at the direction of the Mukwonago Village Board.

February 4, 2025

Brooklife Church Addition

857 S Rochester St. STE 300
Village of Mukwonago, WI 53149

Abacus Architects, Inc. Project No. 2023-42

To whom it May Concern,

This letter addresses the submittal of items regarding the proposed Brooklife Church Addition project. The above named project is located on the following tax parcel in Waukesha County.

Tax Parcel: MUKV2009978009

Project Description:

The proposed project involves changes on the North, South, and East sides of the property. These areas have differing scopes according to the nature of the change in these areas, and these scopes are described below:

North:

The Northern area of the proposed project involves a building addition along the existing building line of the Brooklife church complex. This building addition includes a Gymnasium, concession, coffee bar lounge and a gathering space room. See architectural plans for more information.

The exterior of the Northern area of the site will be modified to reflect the changes in the area due to the building addition. This will involve the removal of greenspace areas, existing truck ramp, existing pavement, and existing curb and gutter. These areas will be redesigned to create better flow for vehicle and foot traffic in this area. The change in this area will entail the addition/replacement of greenspace areas, asphaltic pavement, curb and gutter, and a patio for the church parishioners. See the civil plan set for more information.

South:

One of the most important items pursued by this project on behalf of the owners is the increase of parking stalls for parishioners and others visiting the property. Due to this goal, the project includes the addition of a new parking lot to be installed on greenspace area on the South side of the site. The parking lot conforms to Village regulations for length and width of both the parking stalls and drive lanes. This parking lot includes a concrete stair for access to the existing parking lot. See civil plan set for more information.



East:

The East side of the Brooklife Church complex contains the main entrance vestibule used by the majority of the parishioners for entering the building. This vestibule exterior will be redesigned to create a more welcoming and aesthetically pleasing façade for the Church. Adjacent to the vestibule shall be new landscaping terraces along the glass windows North and South of the vestibule doors for aesthetics and greenspace adjustment.

Currently, the East side of the site contains an existing parking lot that, due to its design, under-delivers the needed parking capacity for the church. Due to this and the above mentioned need for increased parking stalls, this area of the project involves the redesign and re-striping of the existing parking lot. Prior discussions have taken place between Village of Mukwonago officials and Abacus Architects concerning the redesign of the layout on this parking lot. Both parties are aware of the standard Village of Mukwonago dimensioning for parking stalls and realize that the redesign of East parking lot does not meet these standards for dimensioning. Abacus Architects hopes that the reviewers of these plans will find that the increased drive lane width from the required 24' to 25' design width will help alleviate any concerns due to the decreased size of the designed parking stalls.

Greenspace Description:

One of the items that requires attention as a part of this project is the amount of greenspace that will be removed due to the scope of the project. The Village of Mukwonago has granted the use of the property owned by Brooklife Church under the below tax parcel to be included in the calculations to attain the required greenspace area for this project.

Tax Parcel: MUKV2009978005

The Brooklife Church site is contained within the B-2 Zoning district, which allows for a maximum of 75% impervious area. The site, currently, sits at the maximum 75% impervious surface. The above tax parcel has a total acreage of 1.206 acres (52,533 SQFT). The above tax parcel contains a regional detention pond that is considered impervious surface and has been calculated to cover a total of 20,596 SQFT. Thus, the below calculation has been used to determine the allowable impervious surface for the Brooklife Church site:

$$(52,533 \text{ SQFT} * 75\%) - 20,596 \text{ SQFT} = 18,804 \text{ SQFT}$$

Maximum Allowable Added Impervious Surface = **18,804 SQFT**



The proposed site conditions have yielded the following:

Added North Impervious Area = 5,290 SQFT
Added South Impervious Area = 22,108 SQFT
Added East Impervious Area = 5,124 SQFT
Added North Greenspace = 6,580 SQFT
Added East Greenspace = 7,204 SQFT

Total Added Impervious Area = **18,738 SQFT**



Attached Items:

Plans:

- Civil Plans
 - o 200 – Existing Conditions and Demo Plan
 - o 201 – Site Plan Overall
 - o 202 – Site Plan North
 - o 203 – Site Plan South
 - o 204 – Site Plan East
 - o 205 – Grading Plan North
 - o 206 – Grading Plan South
 - o 207 – Grading Plan East
 - o 208 – Utility Plan North
 - o 209 – Utility Plan South
 - o 210 – Erosion Control Plan
 - o 211 – Civil Details
- Architectural Plans
 - o 301 – Life Safety Plan
 - o 307 – Floor Plan – Area 'A'
 - o 308 – Floor Plan – Area 'B' & 'C'
 - o 309 – Floor Plan – Area 'D'
 - o 501 – Exterior Elevations
 - o Rendering Exhibits

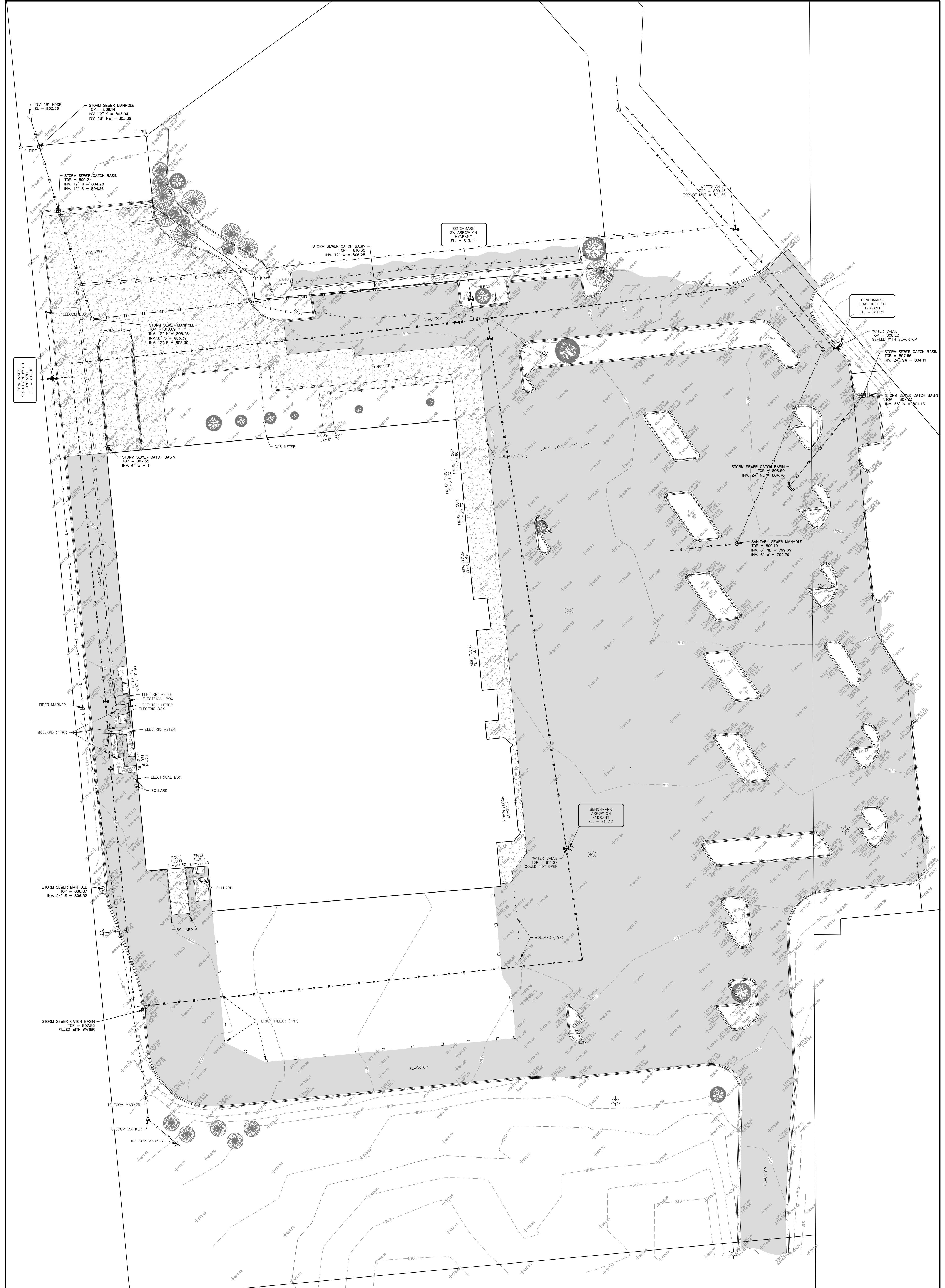
Additional Documents:

- Site Topographic Survey

If you have any questions, or need additional information, please feel free to contact me by phone at (920) 234-2388 or email at mstafford@abacusarchitects.net.

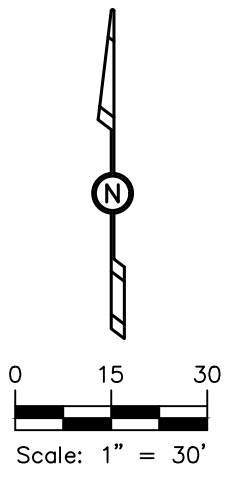
Sincerely,

Mathieu Stafford, EIT
Project Engineer
Abacus Architects, Inc.
(920) 234-2388
mstafford@abacusarchitects.net



NOTES:
1. UTILITY STRUCTURES VISIBLE ON THE GROUND SURFACE HAVE BEEN SHOWN PER ACTUAL MEASUREMENTS. UNDERGROUND UTILITY LINES HAVE BEEN SHOWN PER AVAILABLE RECORDS AND MARKINGS BY DIGGERS HOTLINE AND SHOULD NOT BE INTERPRETED AS THE EXACT LOCATION NOR THE ONLY UTILITIES IN THIS AREA.
2. PARCEL MAY BE SUBJECT TO EASEMENTS AND RIGHTS NOT SHOWN THAT A COMPLETE TITLE SEARCH MAY DISCLOSE.
3. COORDINATES ARE BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM NAD83 SOUTH ZONE.
4. ELEVATIONS ARE NAVD83(GEOD12B).

- LEGEND**
- = Iron Stake Found
 - ⊙ = Light Pole
 - ⊙ = Sign
 - ⊙ = Water Valve
 - ⊙ = Hydrant
 - ⊙ = Manhole
 - ⊙ = Catch Basin
 - ⊙ = Electric Line
 - ⊙ = Storm Sewer Line
 - ⊙ = Water Line
 - ⊙ = Gas Line
 - ⊙ = Telecom Line
 - ⊙ = Fence
 - ⊙ = Rolling
 - ⊙ = Top of Curb Elevation
 - ⊙ = Gutter Elevation
 - ⊙ = Recorded Dimension

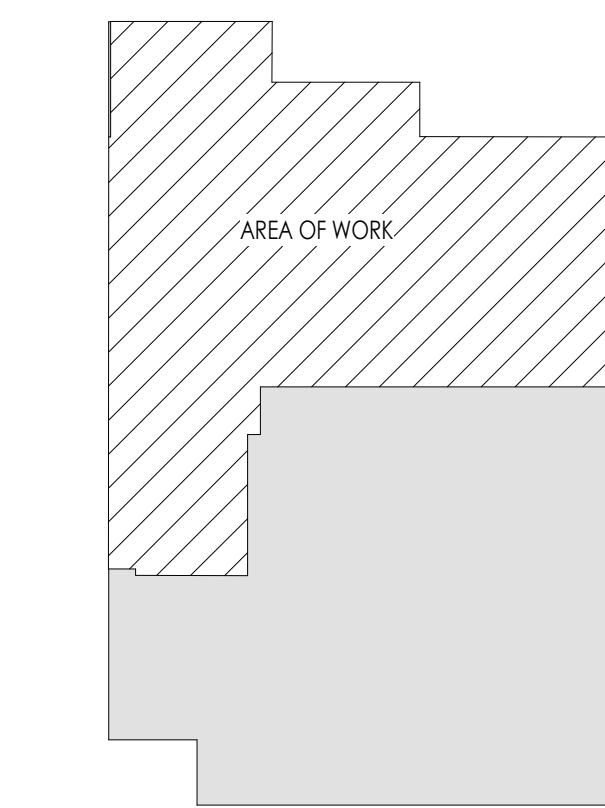
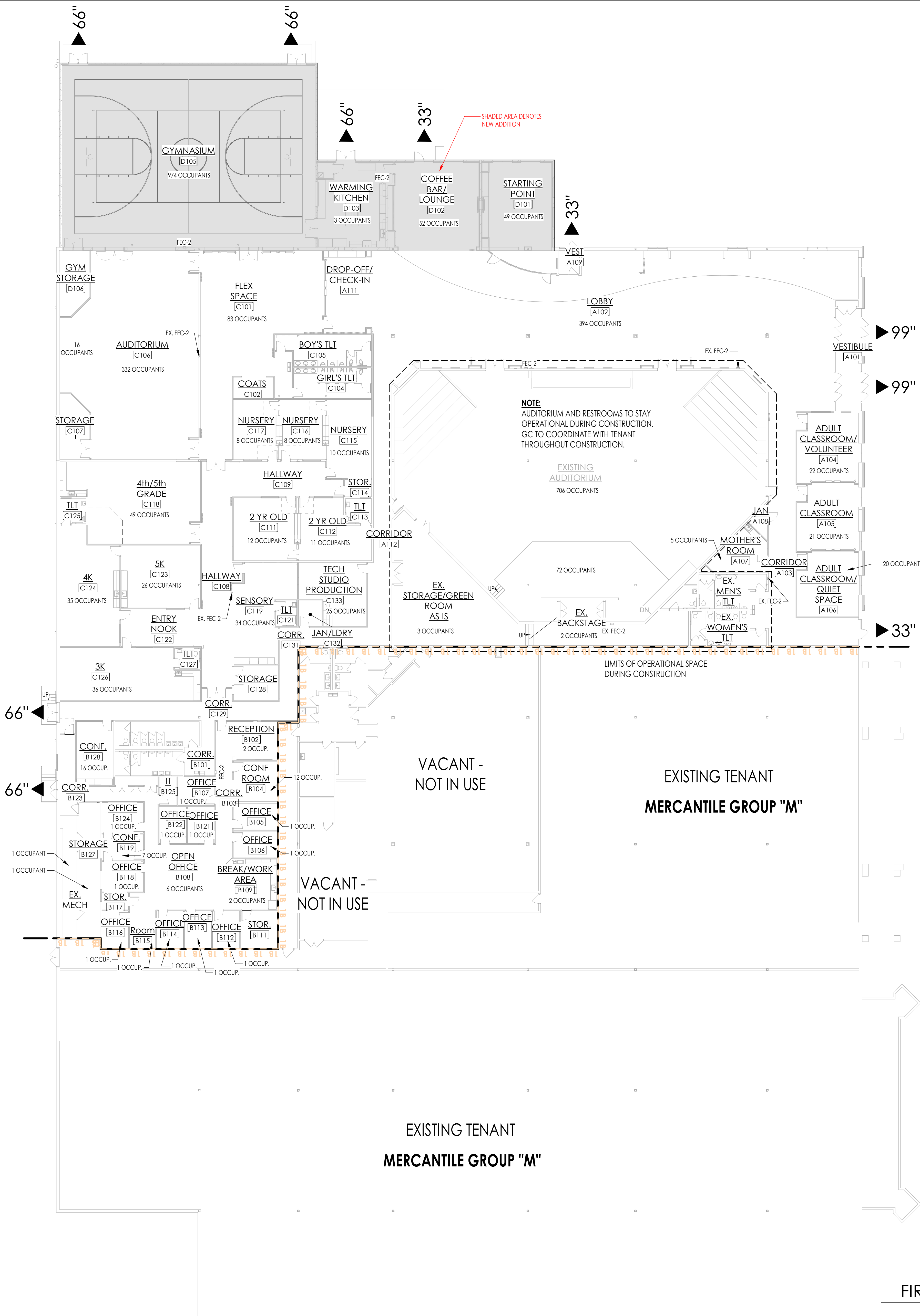


TOPOGRAPHIC SURVEY
FOR: ABACUS ARCHITECTS
1135A MICHIGAN AVENUE
SHEBOYGAN, WI 53081
PART OF THE NE 1/4, SECTION 35, T5N, R18E,
VILLAGE OF MUKWONAGO, WAUKESHA COUNTY, WISCONSIN

Revisions:		
ADDITIONAL TOPO	01-27-2025	
CORRECTED STORM MANHOLE RIM ELEVATION	2-4-2025	

100 South 10th Street
Oostburg, WI 53070
920-547-0999

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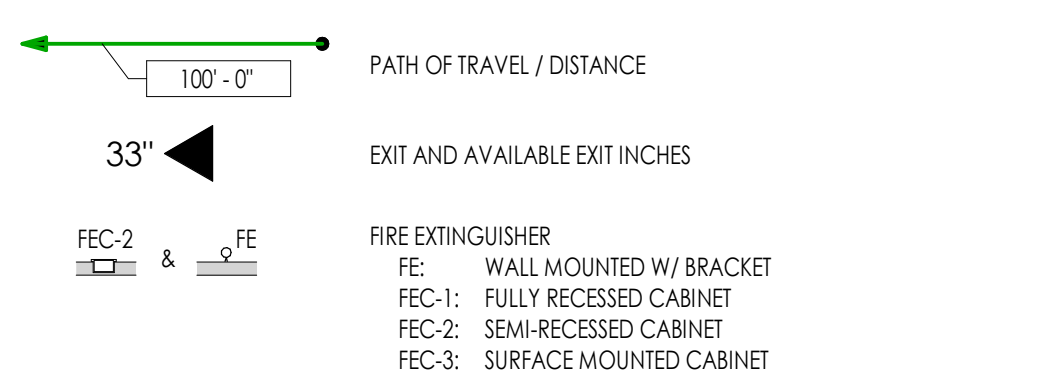


KEY PLAN - OVERALL

GENERAL PLAN NOTES

- ALL LOOSE FURNISHINGS SHOWN ON PLANS ARE NOT IN CONTRACT AND ARE SHOWN FOR REFERENCE PURPOSES ONLY. ANY DEVICES OR EQUIPMENT TO BE LOCATED BASED UPON LOCATION OR CONFIGURATION OF LOOSE FURNISHINGS SHALL BE VERIFIED WITH THE OWNER PRIOR TO INSTALLATION.
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- ALL RATED PARTITIONS TO BE LABELED WITH APPROPRIATE RATING TYPE

LIFE SAFETY PLAN LEGEND



- FIRE AND SMOKE PROTECTION FEATURES**
- 1, 2, 3, OR 4 HOUR FIRE BARRIER
 - REQUIRED AT WALLS INDICATED ON PLAN
 - EXTEND TO UNDERSIDE OF FLOOR OR ROOF SHEATHING, OR SLAB OR DECK ABOVE
 - FIRE BARRIERS SHALL BE CONTINUOUS THROUGH CONCEALED SPACES

PROJECT INFORMATION

APPLICABLE BUILDING CODES

2018 WISCONSIN COMMERCIAL BUILDING CODE (2015 IBC)
2015 INTERNATIONAL EXISTING BUILDING CODE

BUILDING AREA

EXISTING BUILDING AREA:
FIRST FLOOR AREA - 89,612 S.F.

BUILDING ADDITION AREA:
FIRST FLOOR AREA - 7,237 S.F.

BUILDING ALTERATION AREA:
FIRST FLOOR AREA - 30,601 S.F.

CONSTRUCTION CLASSIFICATION

TYPE IIB CONSTRUCTION (W.C.B.C. SECTION 602.2)

OCCUPANCY CLASSIFICATION

NON-SEPARATED OCCUPANCIES (W.C.B.C. SECTION 508.3)

USE GROUPS PRESENT IN THE BUILDING INCLUDE:

ASSEMBLY GROUP "A-3" (W.C.B.C. SECTION 303.4)

BUSINESS GROUP "B" (W.C.B.C. SECTION 304.1)

FIRE PROTECTION

BUILDING IS FULLY PROTECTED WITH AN AUTOMATIC SPRINKLER SYSTEM PER NFPA 13.

ALLOWABLE HEIGHT AND AREA

MAXIMUM BASIC FLOOR AREA = UNLIMITED PER 507.6

SANITARY FIXTURES

A-3 OCCUPANT LOAD - 3,013

B OCCUPANT LOAD - 59

TOTAL OCCUPANT LOAD - 3,072

A-3 FIXTURE OCCUPANT LOAD - 3,013 x .7 = 2109

B FIXTURE OCCUPANT LOAD - 59 x .7 = 41

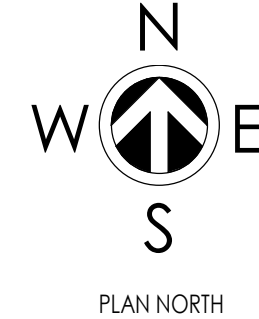
TOTAL FIXTURE OCCUPANT LOAD - 2150

OCCUPANCY	WATER CLOSETS	LAVATORIES	DRINKING
A-3	M 1:50 W 1:75	M 1:200 W 1:200	1:1000
B	M 1:25 W 1:25	M 1:40 W 1:40	1:100
REQUIRED			
A-3	M 7 W 14	M 5 W 5	2
B	M 1 W 1	M 1 W 1	1
TOTAL	M 8 W 15	M 6 W 6	3
PROVIDED			
	M 16 W 16	M 9 W 9	6

FIRST FLOOR LIFE SAFETY PLAN

SCALE: 1/16" = 1'-0"

1 A 301



REVISIONS:

DATE ISSUE

NOTICE TO BIDDERS
BIDDERS SHALL REVIEW ALL DRAWINGS AND SPECIFICATION SECTIONS TO DETERMINE THE IMPACT OF OTHER SECTIONS OF WORK ON THEIR OWN WORK

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ISSUE DATE: 2/14/2025

ADDITION & RENOVATION FOR:

BROOKLIFE CHURCH

1231 S ROCHESTER ST., SUITE 40, MUKWONAGO, WI 53149

1135A MICHIGAN AVE., SHEBOYGAN, WI 53081 | 920.452.4444 | 640 VEL R. PHILLIPS AVE., SUITE 210, MILWAUKEE, WI 53203

PRELIMINARY - NOT FOR CONSTRUCTION

DRAWN BY:

SLL

CHECKED BY:

EWB

LIFE SAFETY PLAN

A 301

PROJ. NO. 2023-042

GENERAL PLAN NOTES

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FLOOR PLAN KEYNOTES

NO.	DESCRIPTION
1	NEW DRINKING FOUNTAIN AT ACCESSIBLE HEIGHT
2	CLASS 'K' FIRE EXTINGUISHER

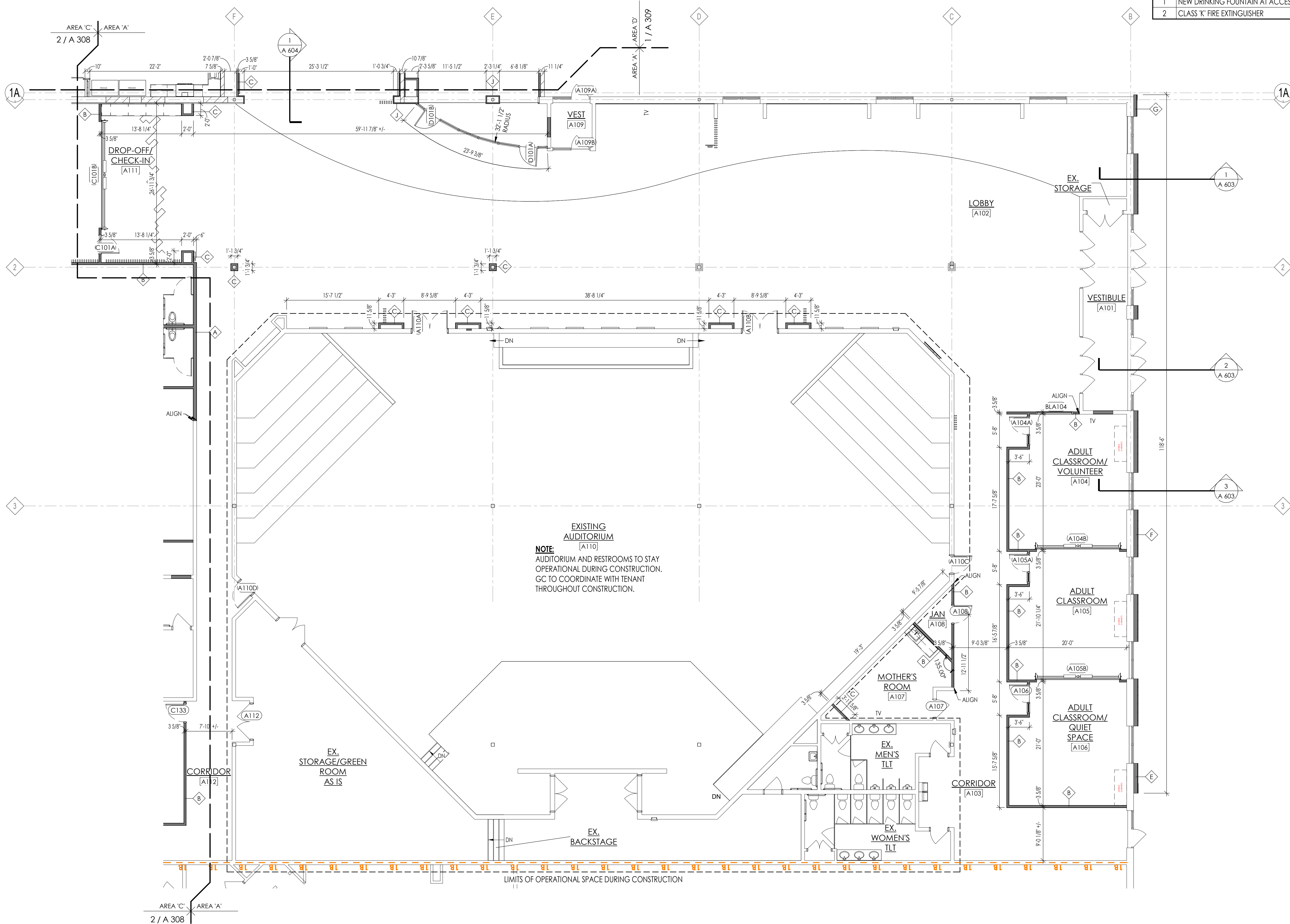
"D"

"C"

"A"

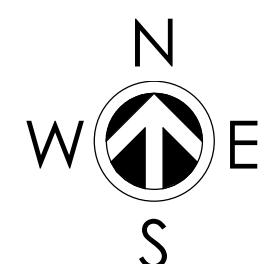
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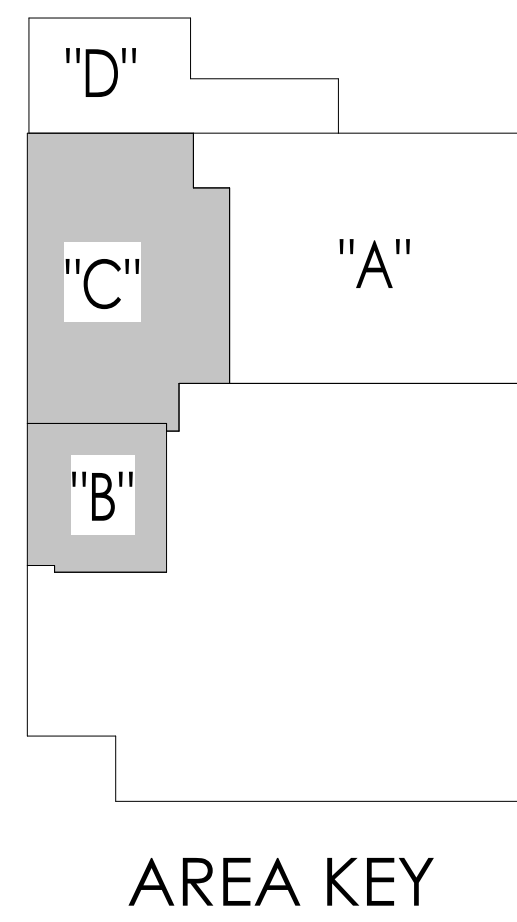
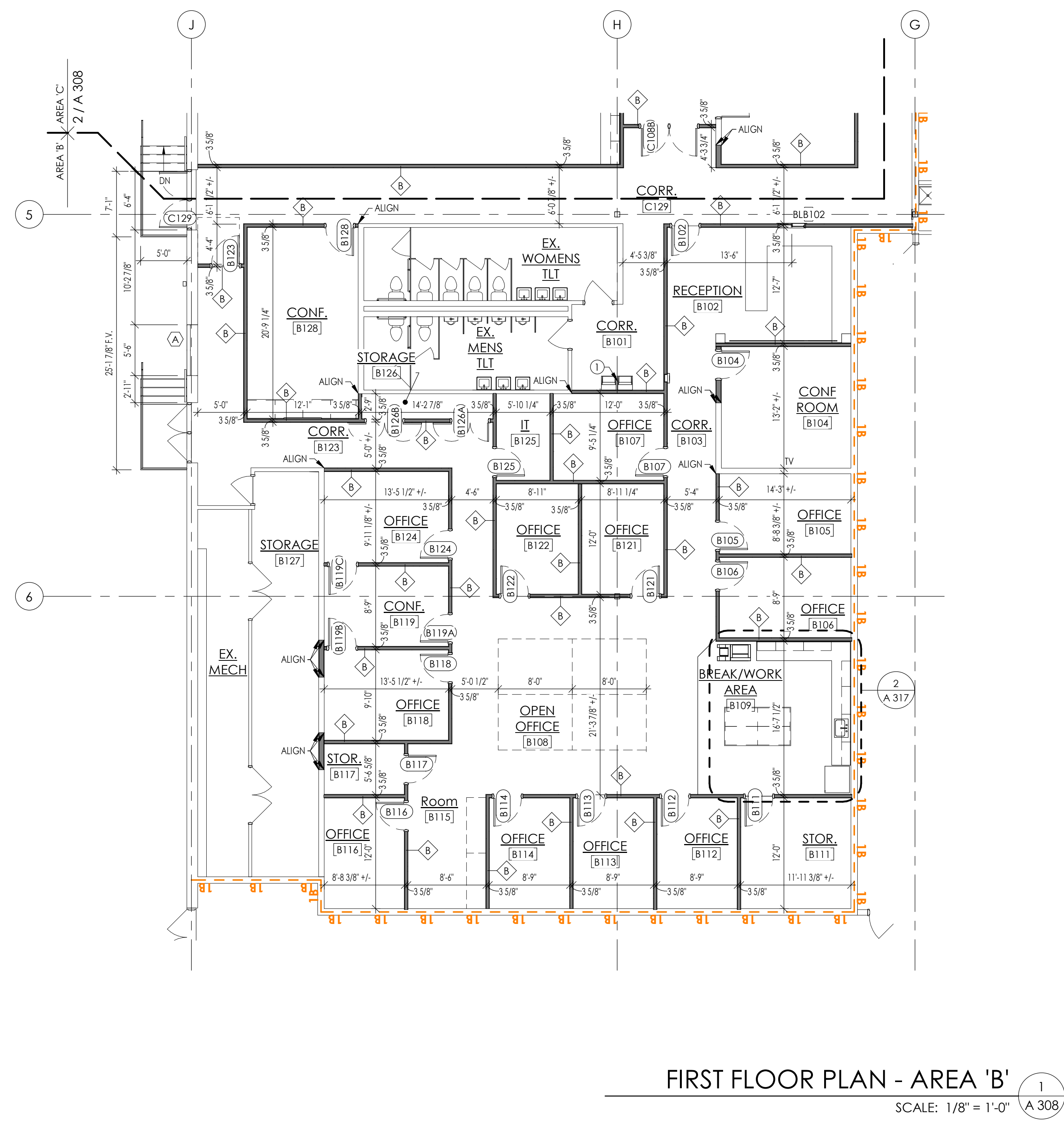
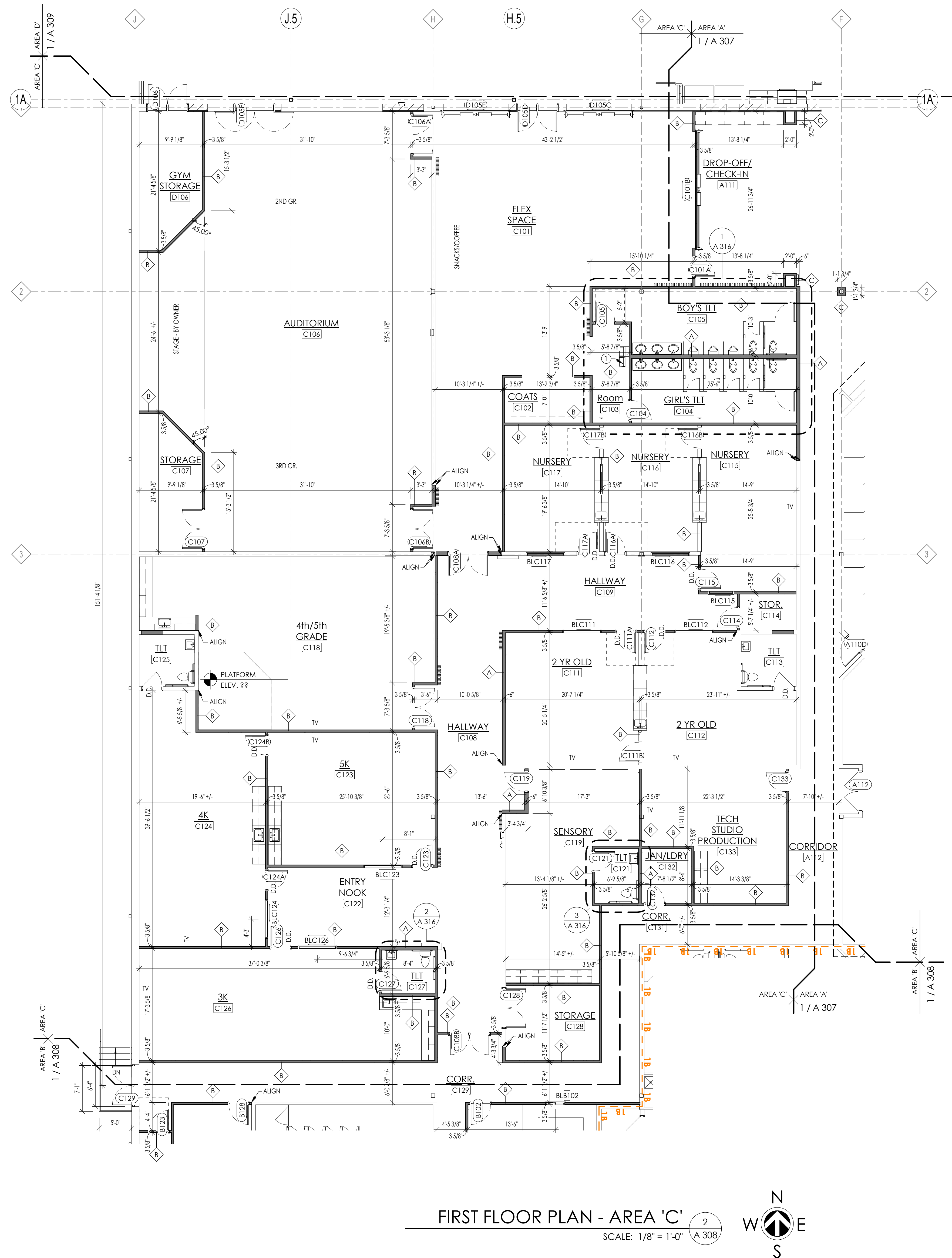
AREA KEY



FIRST FLOOR PLAN - AREA 'A'

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





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- PARTITION PARTITIONS TO BE Labeled WITH APPROPRIATE RATING TYPE.

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2	CLASS 'K' FIRE EXTINGUISHER



ABACUS
ARCHITECTS

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DATE ISSUE

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ISSUE DATE: 2/4/2025

ISSUE DATE: 2/7/2023

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1231 S ROCHESTER ST. SUITE 40. MUKWONAGO. WI 53149

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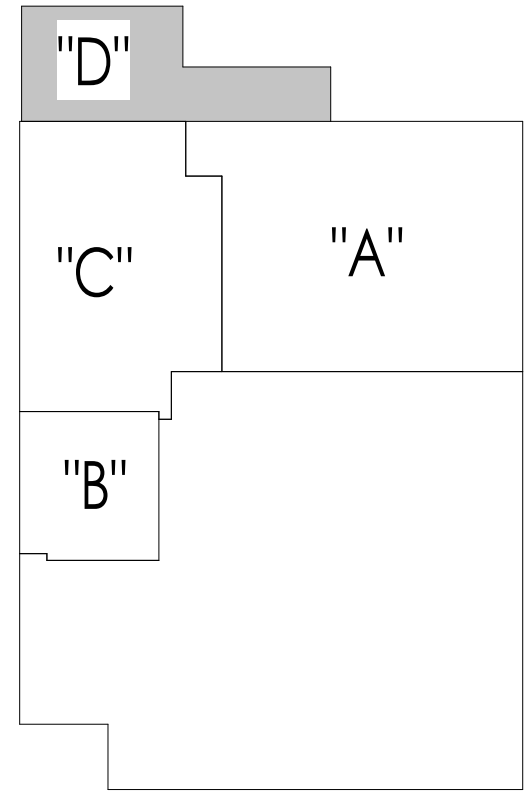
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FLOOR PLAN - AREA 'B'
& 'C'

A
308

PROJ. NO. 2023-042



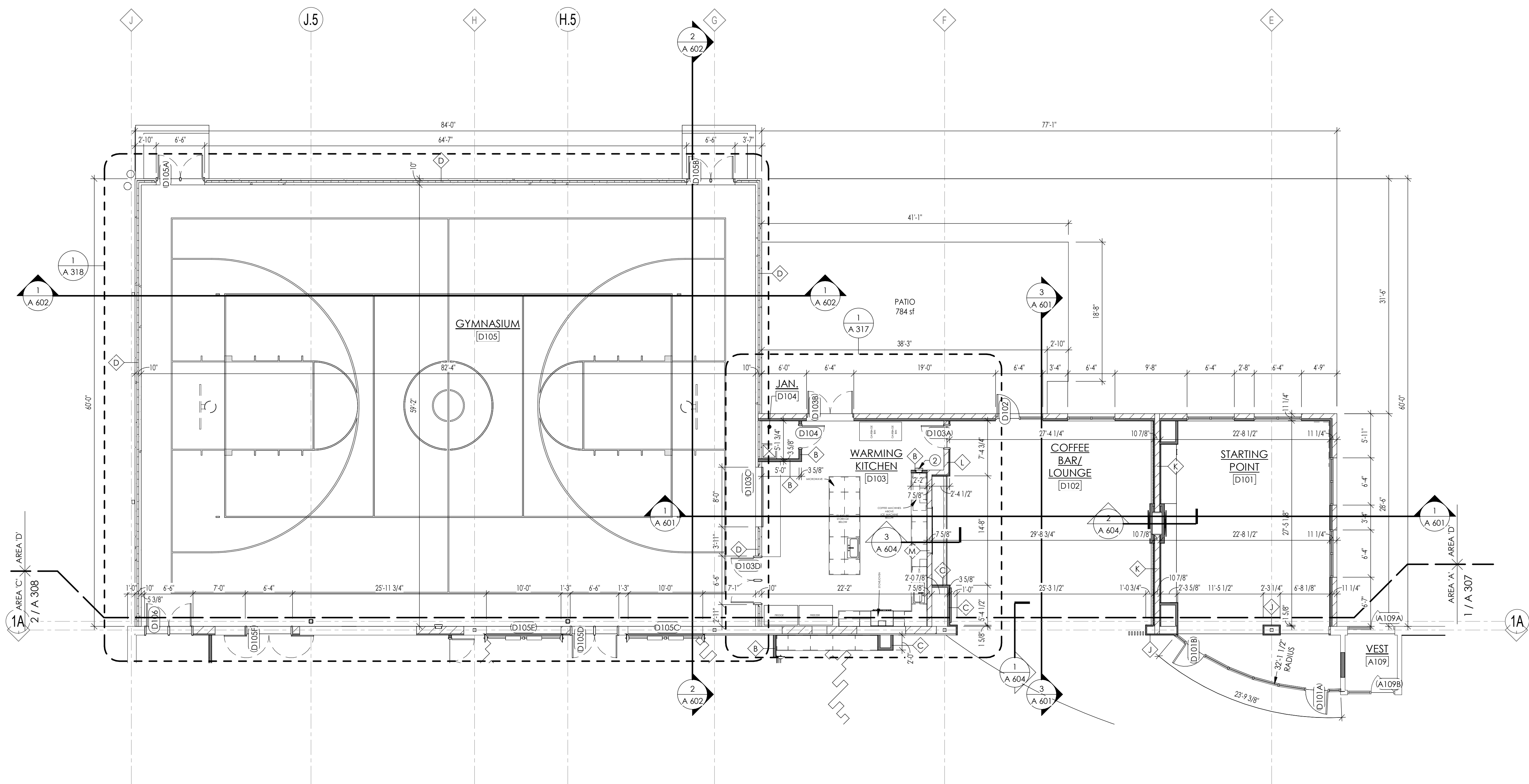
AREA KEY

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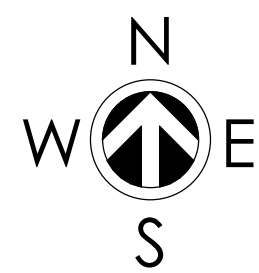
FLOOR PLAN KEYNOTES

NO.	DESCRIPTION
1	NEW DRINKING FOUNTAIN AT ACCESSIBLE HEIGHT
2	CLASS 'K' FIRE EXTINGUISHER



FIRST FLOOR PLAN - AREA 'D'

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



REVISIONS:

DATE	ISSUE
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FLOOR PLAN - AREA 'D'

A
309

PROJ. NO. 2023-042

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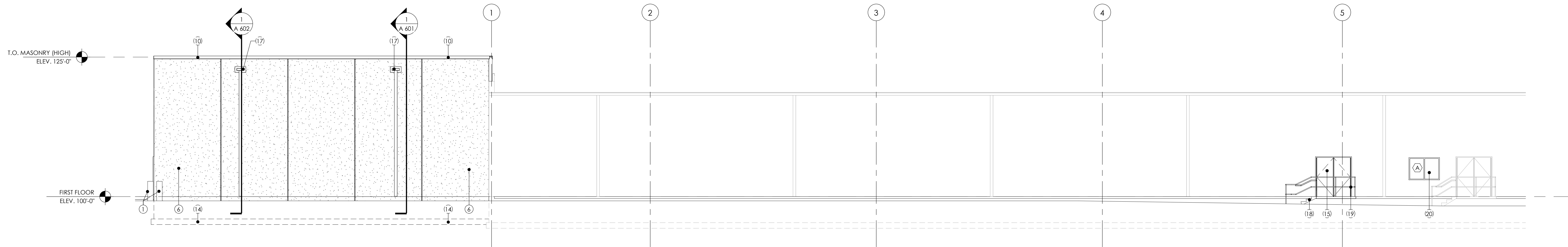
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EXTERIOR ELEVATIONS

A
501

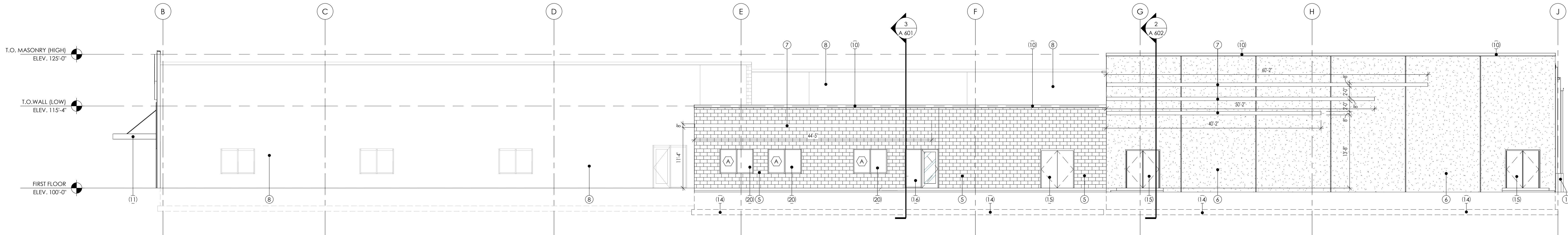
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WEST ELEVATION

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

3
A 501



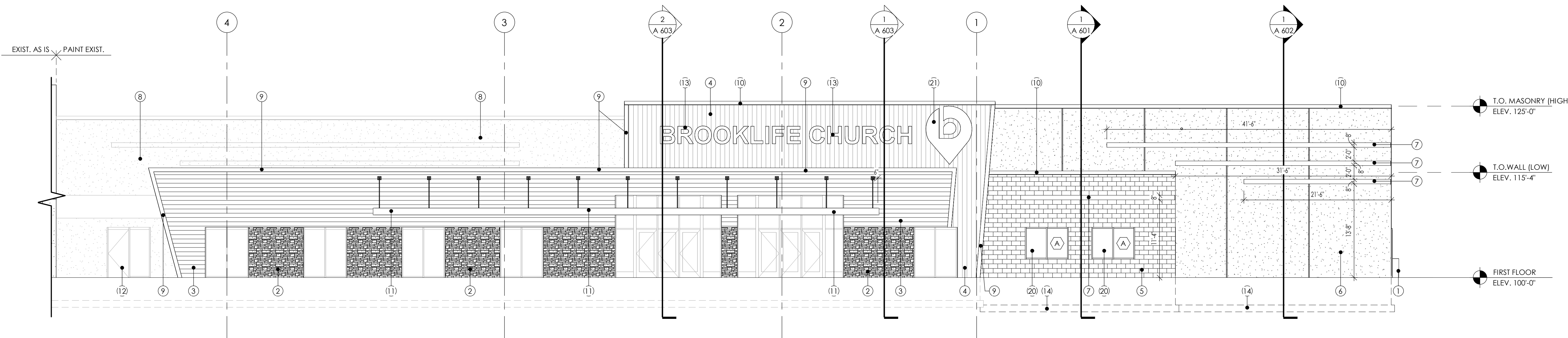
NORTH ELEVATION

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

2
A 501

ELEVATION KEYNOTES

NO.	DESCRIPTION
1	12" DIA. CONCRETE FILLED STEEL BOLLARDS
2	THIN STONE VENEER
3	HORIZONTAL METAL PANEL - COLOR WHITE
4	VERTICAL METAL PANEL - COLOR BLACK
5	CONCRETE MASONRY UNIT - COLOR WHITE
6	PRECAST WALL PANEL - COLOR GRAY
7	1 1/2" DEEP x 8" HIGH REVEALS - COLOR WHITE
8	EXISTING WALL - COLOR GRAY
9	7" ALUMINUM TRIM - COLOR BLACK
10	PRE-FINISHED METAL COPING
11	PRE-FABRICATED ALUMINUM CANOPY SYSTEM
12	EXISTING DOOR AND FRAME - COLOR GRAY
13	30" ALUMINUM LETTERS IN WHITE
14	FOOTING AND FOUNDATION
15	INSULATED HOLLOW METAL DOOR
16	ALUMINUM STOREFRONT ENTRANCE DOOR AND FRAME
17	THROUGH WALL SCUPPER AND DOWNSPOUT
18	CAST-IN-PLACE CONCRETE STAIR - SEE STRUCTURAL DRAWINGS
19	PAINTED STEEL 42" HIGH GUARD RAIL w/ 1 1/2" DIA. PAINTED STEEL HANDRAIL
20	ALUMINUM STOREFRONT WINDOW ASSEMBLY
21	ALUMINUM LOGO - SEE SUPPLIER FOR EXACT SIZE AND COLOR



EAST ELEVATION

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

1
A 501



2/4/2025

ADDITION & RENOVATION FOR:

BROOKLIFE CHURCH

1231 S ROCHESTER ST. SUITE 40, MUKWONAGO, WI 53149

PROJ. NO. 2023-042

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2/4/2025

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2/4/2025

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2/4/2025

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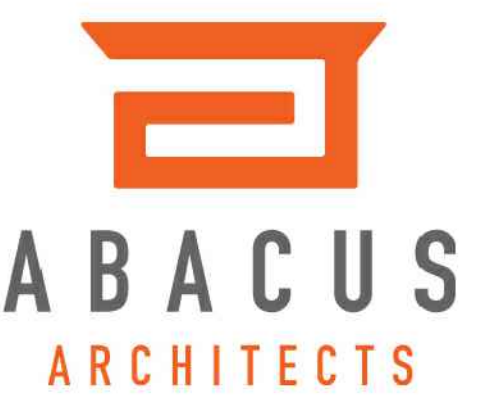
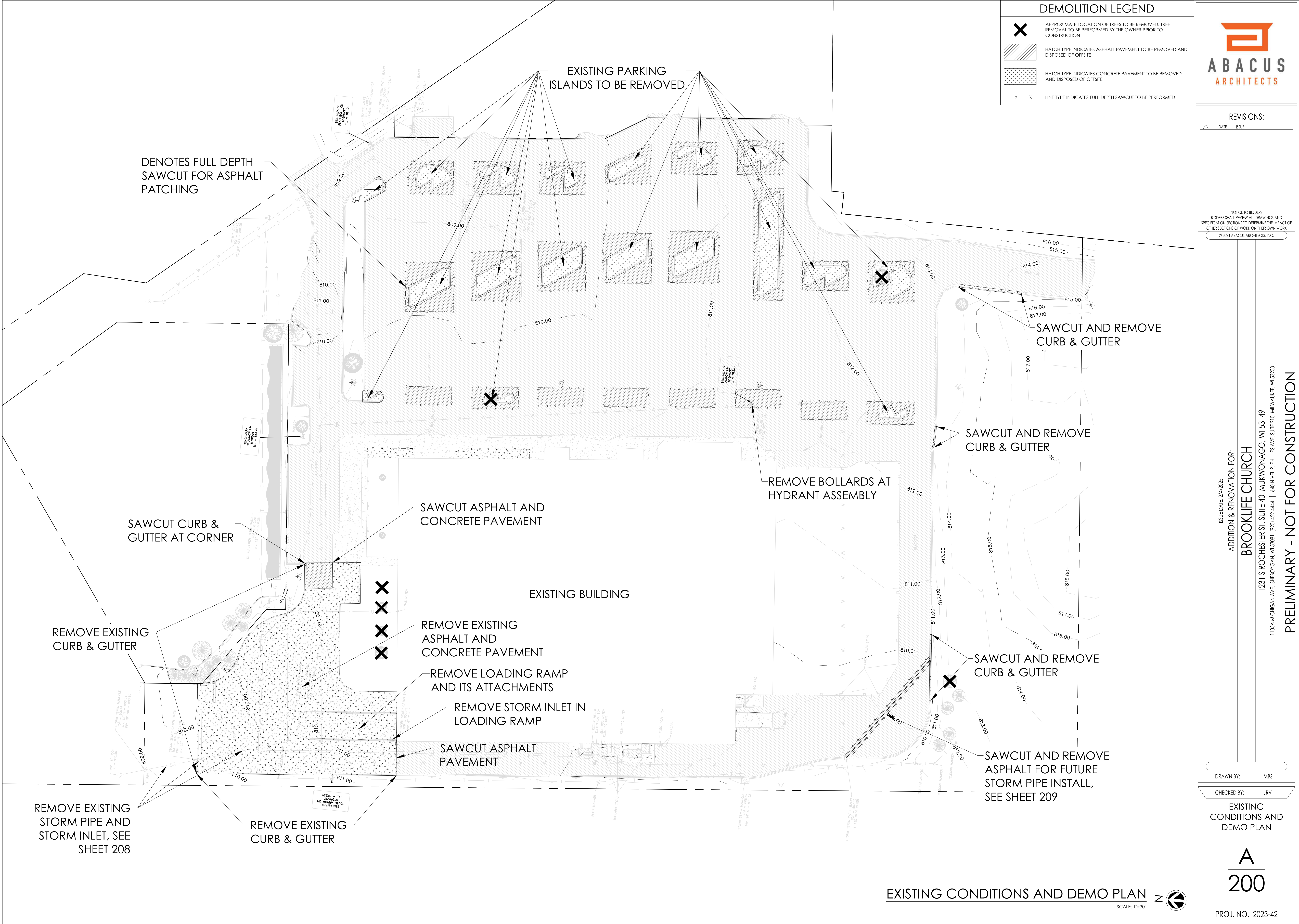
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1231 S ROCHESTER ST. SUITE 40, MUKWONAGO, WI 53149

PROJ. NO. 2023-042

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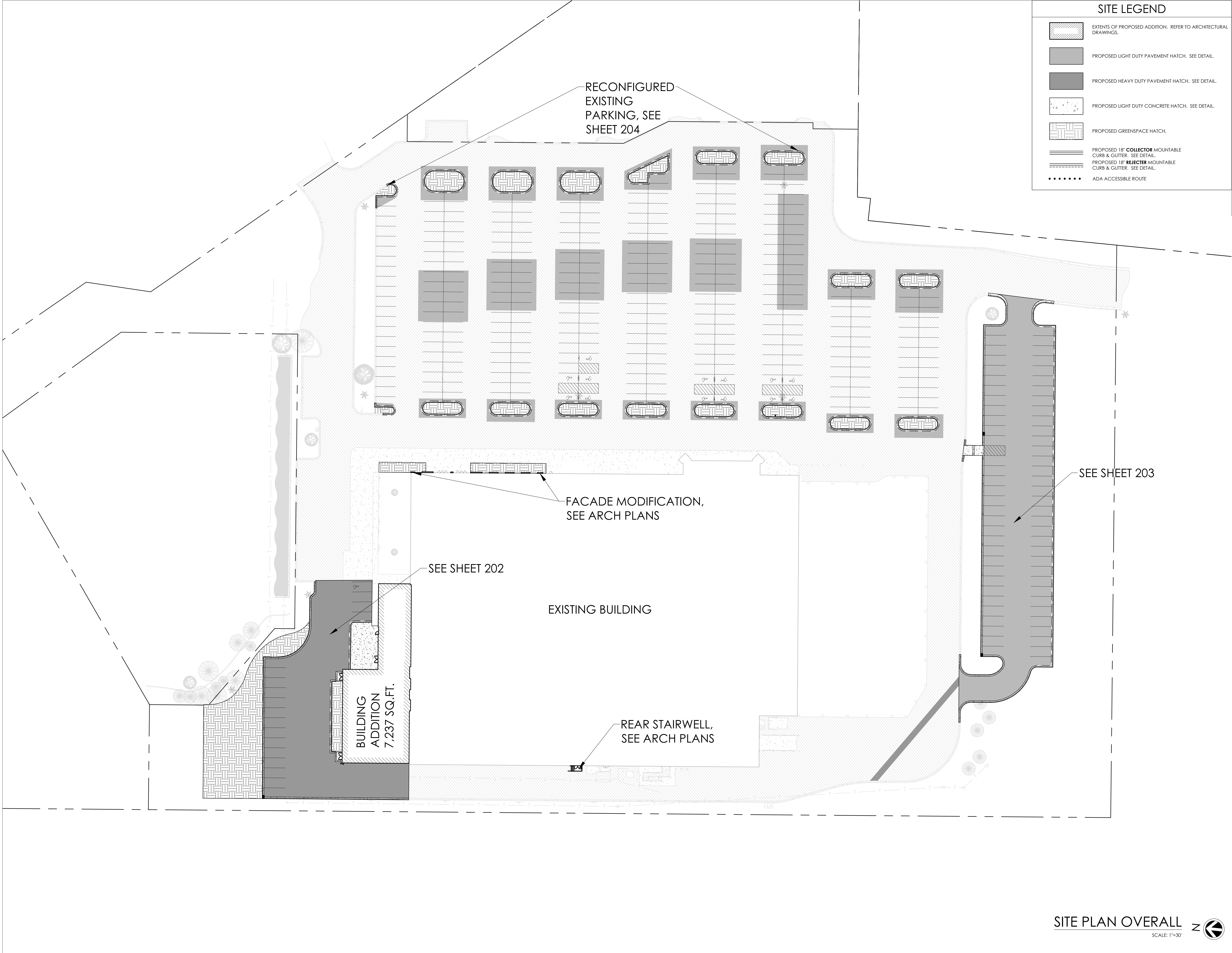




ISSUE DATE: 2/4/2025
ADDITION & RENOVATION FOR:
BROOKLIFE CHURCH
1231 S ROCHESTER ST., SUITE 40, MUKWONAGO, WI 53149
1135A MICHIGAN AVE., SHEBOYGAN, WI 53081 | (920) 452-4444 | 640 N VIL R. PHILIPS AVE., SUITE 210, MILWAUKEE, WI 53203

PRELIMINARY - NOT FOR CONSTRUCTION

DRAWN BY: MBS
CHECKED BY: JRV
EXISTING CONDITIONS AND DEMO PLAN
A 200
PROJ. NO. 2023-42



SITE LEGEND

- EXTENTS OF PROPOSED ADDITION. REFER TO ARCHITECTURAL DRAWINGS.
- PROPOSED LIGHT DUTY PAVEMENT HATCH. SEE DETAIL.
- PROPOSED HEAVY DUTY PAVEMENT HATCH. SEE DETAIL.
- PROPOSED LIGHT DUTY CONCRETE HATCH. SEE DETAIL.
- PROPOSED GREENSPACE HATCH.
- PROPOSED 18" COLLECTOR MOUNTABLE CURB & GUTTER. SEE DETAIL.
- PROPOSED 18" REJECTER MOUNTABLE CURB & GUTTER. SEE DETAIL.
- ADA ACCESSIBLE ROUTE

ABACUS ARCHITECTS

REVISIONS:

DATE	ISSUE
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SITE PLAN OVERALL z

SCALE: 1"=30'

ISSUE DATE: 2/4/2025

ADDITION & RENOVATION FOR:
BROOKLIFE CHURCH
1231 S ROCHESTER ST., SUITE 40, MUKWONAGO, WI 53149
1135A MICHIGAN AVE. SHEBOYGAN, WI 53081 | (920) 452-4444 | 640 N VEL R. PHILIPS AVE. SUITE 210 MILWAUKEE, WI 53203

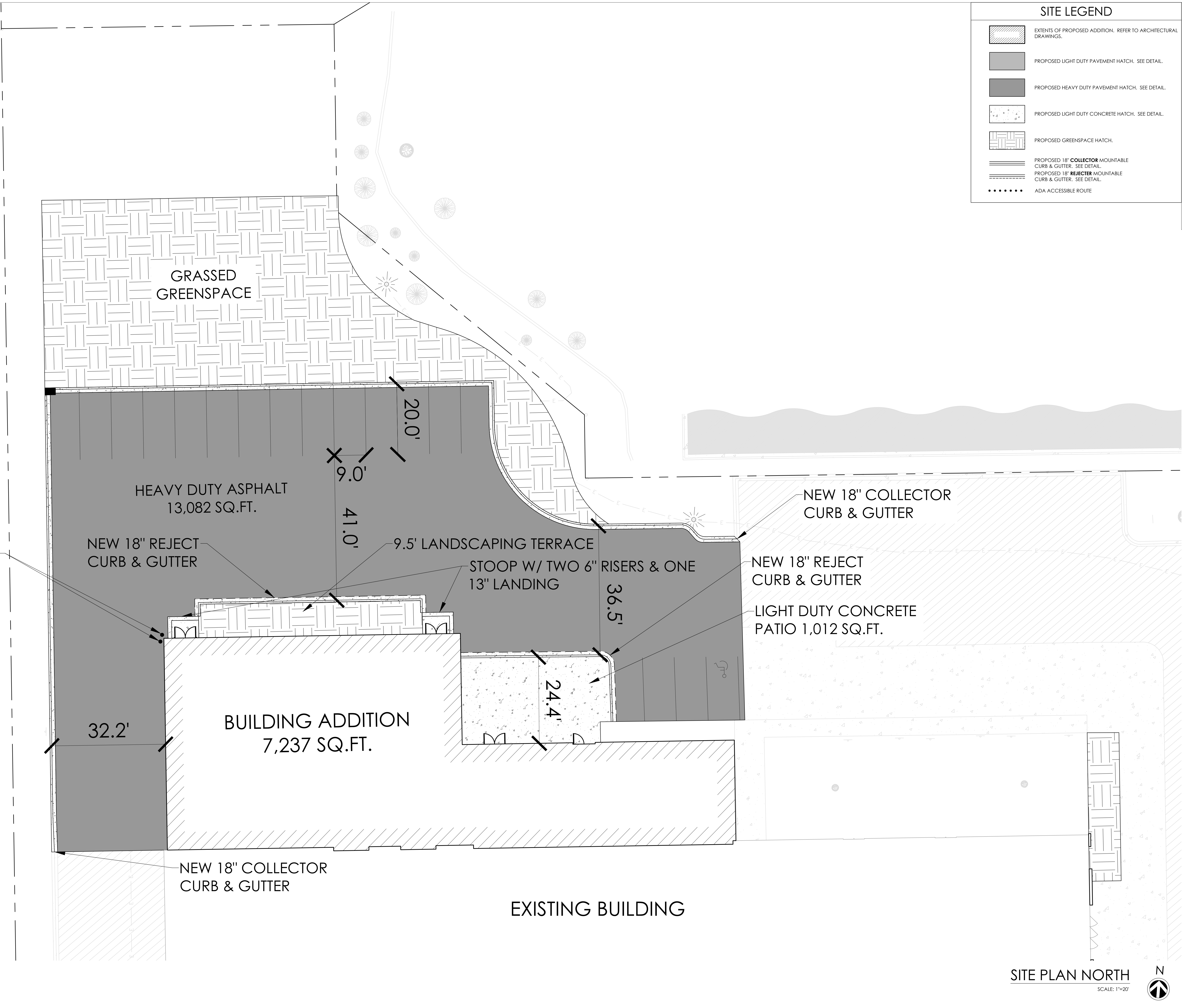
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DRAWN BY: MBS
CHECKED BY: JRV

SITE PLAN OVERALL

**A
201**

PROJ. NO. 2023-42



SITE LEGEND	
	EXTENTS OF PROPOSED ADDITION. REFER TO ARCHITECTURAL DRAWINGS.
	PROPOSED LIGHT DUTY PAVEMENT HATCH. SEE DETAIL.
	PROPOSED HEAVY DUTY PAVEMENT HATCH. SEE DETAIL.
	PROPOSED LIGHT DUTY CONCRETE HATCH. SEE DETAIL.
	PROPOSED GREENSPACE HATCH.
	PROPOSED 18" COLLECTOR MOUNTABLE CURB & GUTTER. SEE DETAIL.
	PROPOSED 18" REJECT MOUNTABLE CURB & GUTTER. SEE DETAIL.
	ADA ACCESSIBLE ROUTE

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ARCHITECTS

REVISIONS:

DATE	ISSUE
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ISSUE DATE: 2/4/2025

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1135A MICHIGAN AVE. SHEBOYGAN, WI 53081 | (920) 452-4444 | 640 N VEL R. PHILIPS AVE. SUITE 210, MILWAUKEE, WI 53203

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SITE PLAN NORTH

A
202

PROJ. NO. 2023-42



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1000

PROPOSAL

1231 S ROCHESTER ST. SUITE 40, MUKWONG, WI 53149

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RAWN BY:

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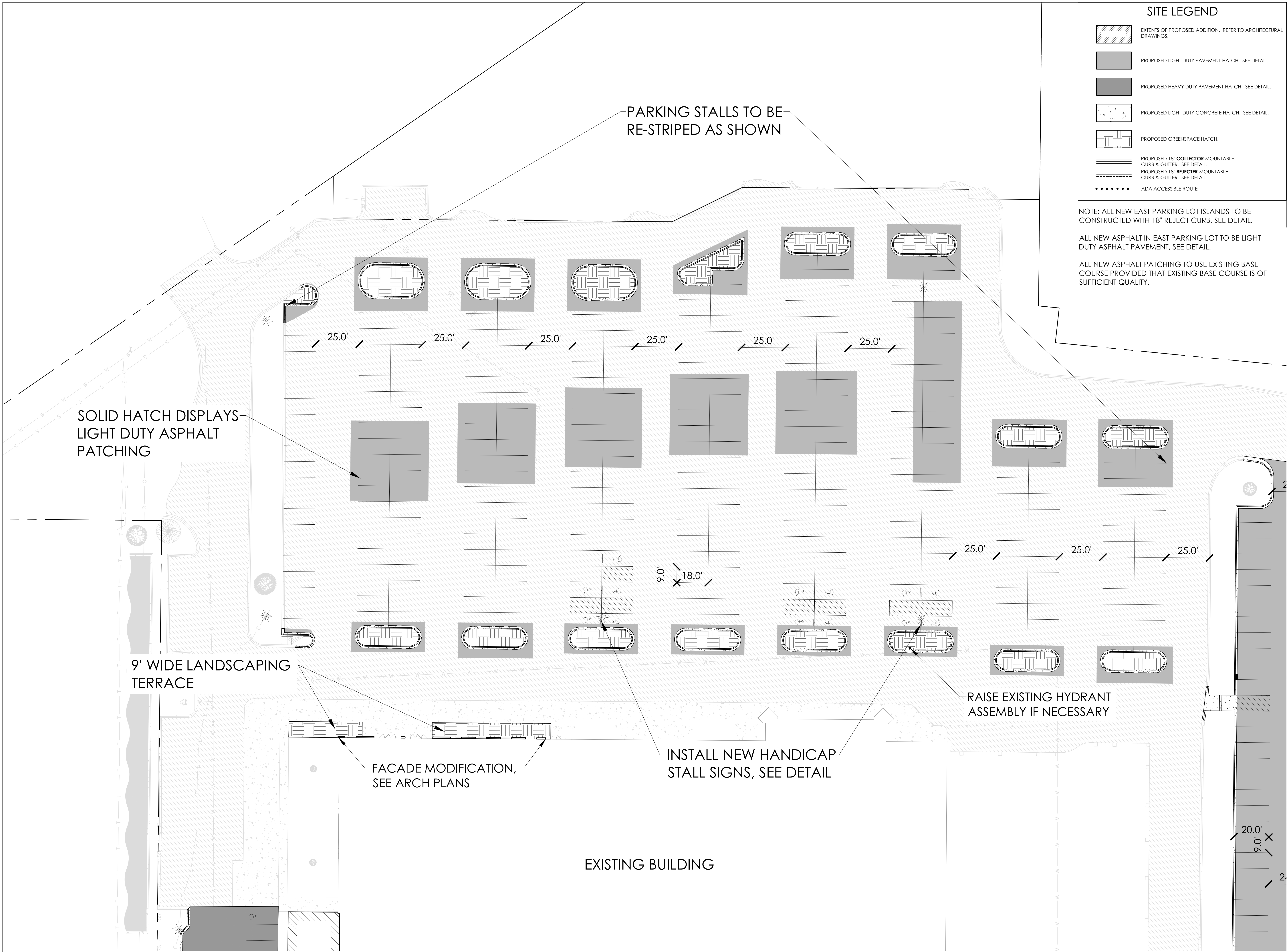
CHECKED BY _____

v

TE PLAN SOUTH

A
203

ROJ. NO. 2023-42



SITE LEGEND	
	EXTENTS OF PROPOSED ADDITION. REFER TO ARCHITECTURAL DRAWINGS.
	PROPOSED LIGHT DUTY PAVEMENT HATCH. SEE DETAIL.
	PROPOSED HEAVY DUTY PAVEMENT HATCH. SEE DETAIL.
	PROPOSED LIGHT DUTY CONCRETE HATCH. SEE DETAIL.
	PROPOSED GREENSPACE HATCH.
	PROPOSED 18" COLLECTOR MOUNTABLE CURB & GUTTER. SEE DETAIL.
	PROPOSED 18" REJECTER MOUNTABLE CURB & GUTTER. SEE DETAIL.
	ADA ACCESSIBLE ROUTE

NOTE: ALL NEW EAST PARKING LOT ISLANDS TO BE CONSTRUCTED WITH 18" REJECT CURB, SEE DETAIL.

ALL NEW ASPHALT IN EAST PARKING LOT TO BE LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL.

ALL NEW ASPHALT PATCHING TO USE EXISTING BASE COURSE PROVIDED THAT EXISTING BASE COURSE IS OF SUFFICIENT QUALITY.

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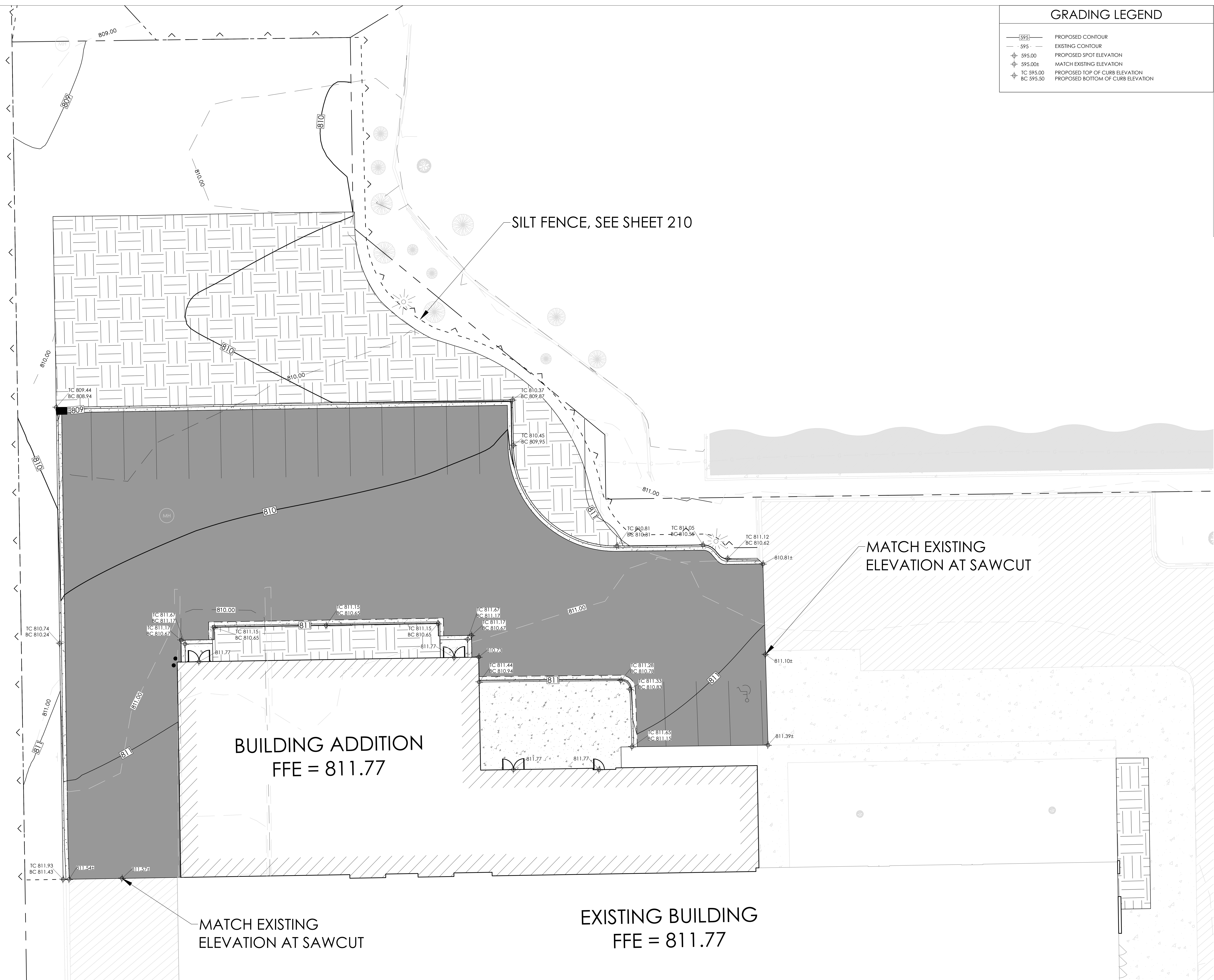
DRAWN BY: MBS

CHECKED BY: JRV

SITE PLAN EAST

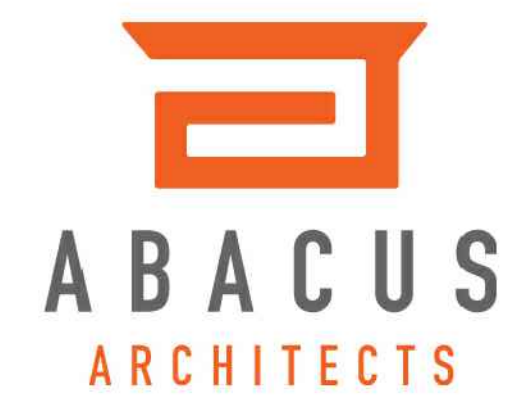
A
204

PROJ. NO. 2023-42



GRADING LEGEND

	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED SPOT ELEVATION
	MATCH EXISTING ELEVATION
	PROPOSED TOP OF CURB ELEVATION
	PROPOSED BOTTOM OF CURB ELEVATION



REVISIONS:

△	DATE	ISSUE
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1135A MICHIGAN AVE. SHEBOYGAN, WI 53081 | (920) 452-4444 | 640 N VEL R. PHILIPS AVE. SUITE 210, MILWAUKEE, WI 53203

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GRADING PLAN NORTH

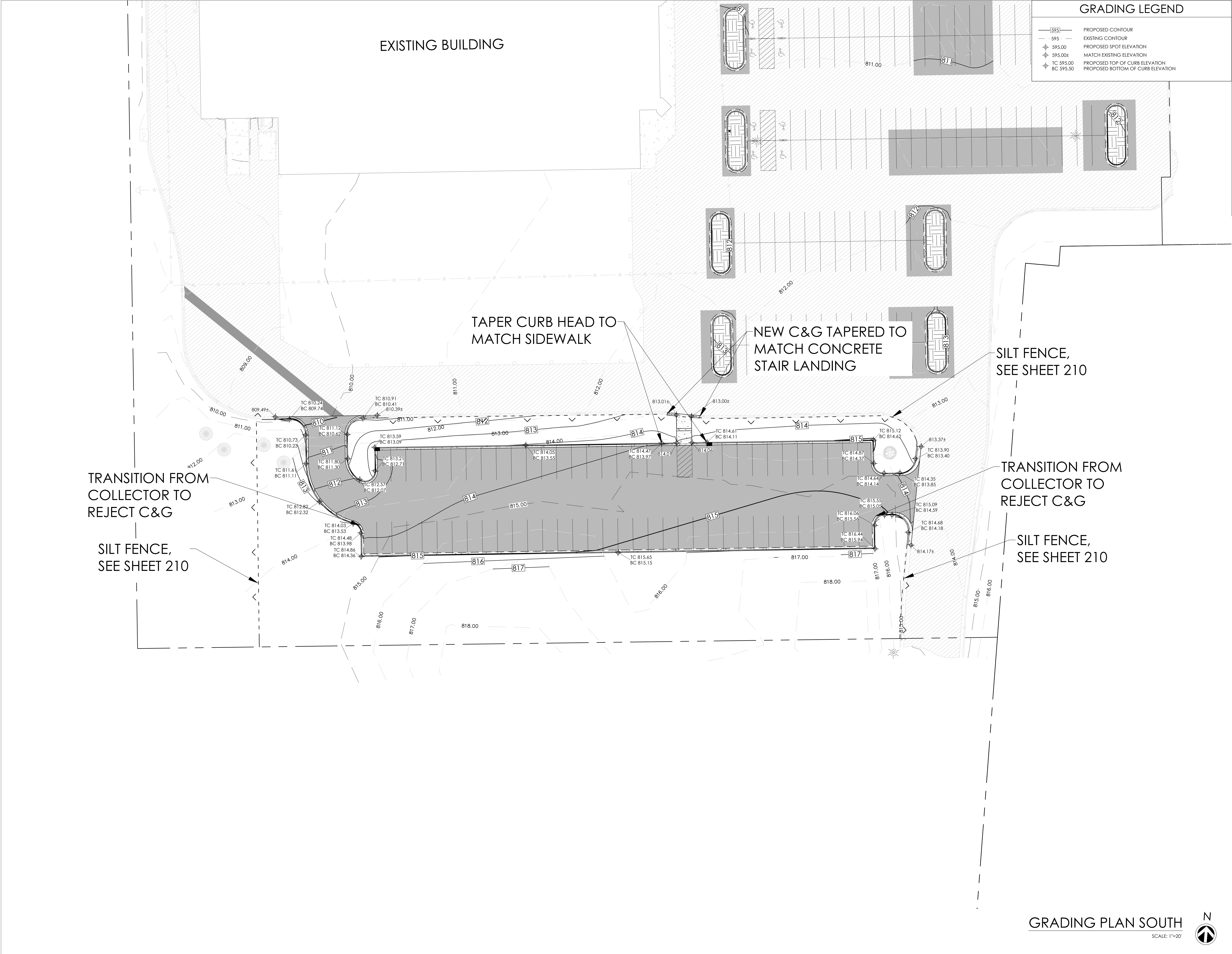
A
205

PROJ. NO. 2023-42

GRADING PLAN NORTH

SCALE: 1"=10'





GRADING LEGEND	
	PROPOSED CONTOUR
	EXISTING CONTOUR
	PROPOSED SPOT ELEVATION
	MATCH EXISTING ELEVATION
	PROPOSED TOP OF CURB ELEVATION
	PROPOSED BOTTOM OF CURB ELEVATION

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DATE	ISSUE
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ADDITION & RENOVATION FOR:
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GRADING PLAN SOUTH

A
206

PROJ. NO. 2023-42





GRADING LEGEND

- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROPOSED SPOT ELEVATION
- MATCH EXISTING ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED BOTTOM OF CURB ELEVATION



REVISIONS:

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BROOKLIFE CHURCH

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1135A MICHIGAN AVE., SHEBOYGAN, WI 53081 | (920) 452-4444 | 640 N. VEL R. PHILIPS AVE., SUITE 210, MILWAUKEE, WI 53203

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JRV

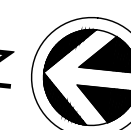
GRADING PLAN
EAST

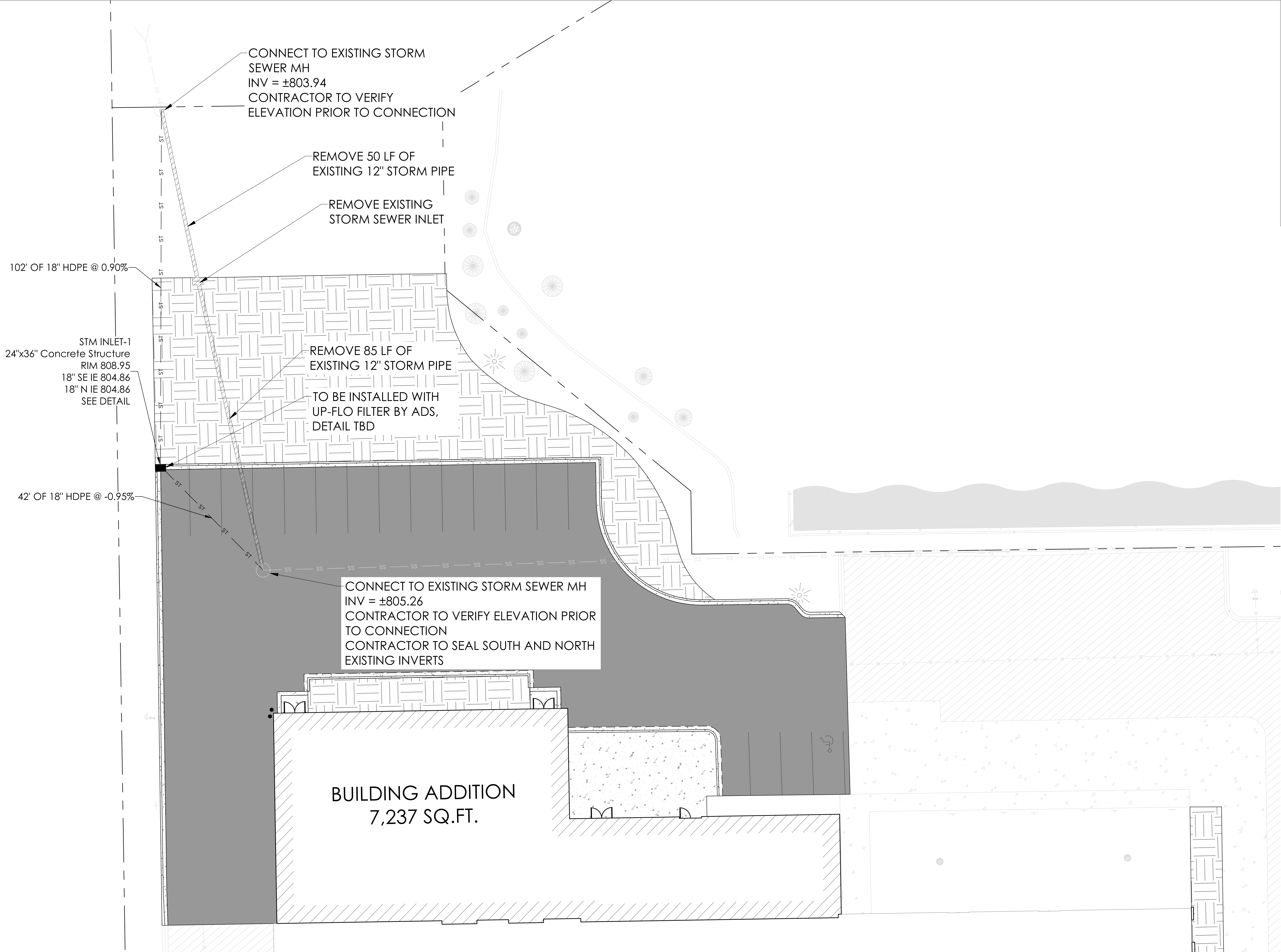
A
207

PROJ. NO. 2023-42

GRADING PLAN EAST

SCALE: 1"=20'





REVISIONS:		
△	DATE	ISSUE

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UTILITY PLAN NORTH

A
208

PROJ. NO. 2023-42

UTILITY PLAN NORTH
SCALE: 1"=10'
N

PRELIMINARY - NOT FOR CONSTRUCTION

EXISTING BUILDING

STORM SEWER MANHOLE
TOP = 808.25
INV. 24" S = 808.52

STORM SEWER CATCH BASIN
TOP = 807.88
FILLED WITH WATER

CONNECT TO EXISTING STORM SEWER INLET
INV = ±805.25
CONTRACTOR TO VERIFY ELEVATION PRIOR
TO CONNECTION
CONTRACTOR TO CLEAN AND
RECONDITION EXISTING INLET AS NEEDED

150' OF 12" HDPE @ 1.40%

STM INLET-3
24"x36" Concrete Structure
RIM 813.10
12" E IE 807.35
12" NW IE 807.35
SEE DETAIL

198' OF 12" HDPE @ 1.90%

STM INLET-2
24"x36" Concrete Structure
RIM 814.12
12" W IE 811.12
SEE DETAIL

TO BE INSTALLED WITH
UP-FLOW FILTER BY ADS,
DETAIL TBD



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ADDITION & RENOVATION FOR:

BROOKLIFE CHURCH

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MBS

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JRV

UTILITY PLAN SOUTH

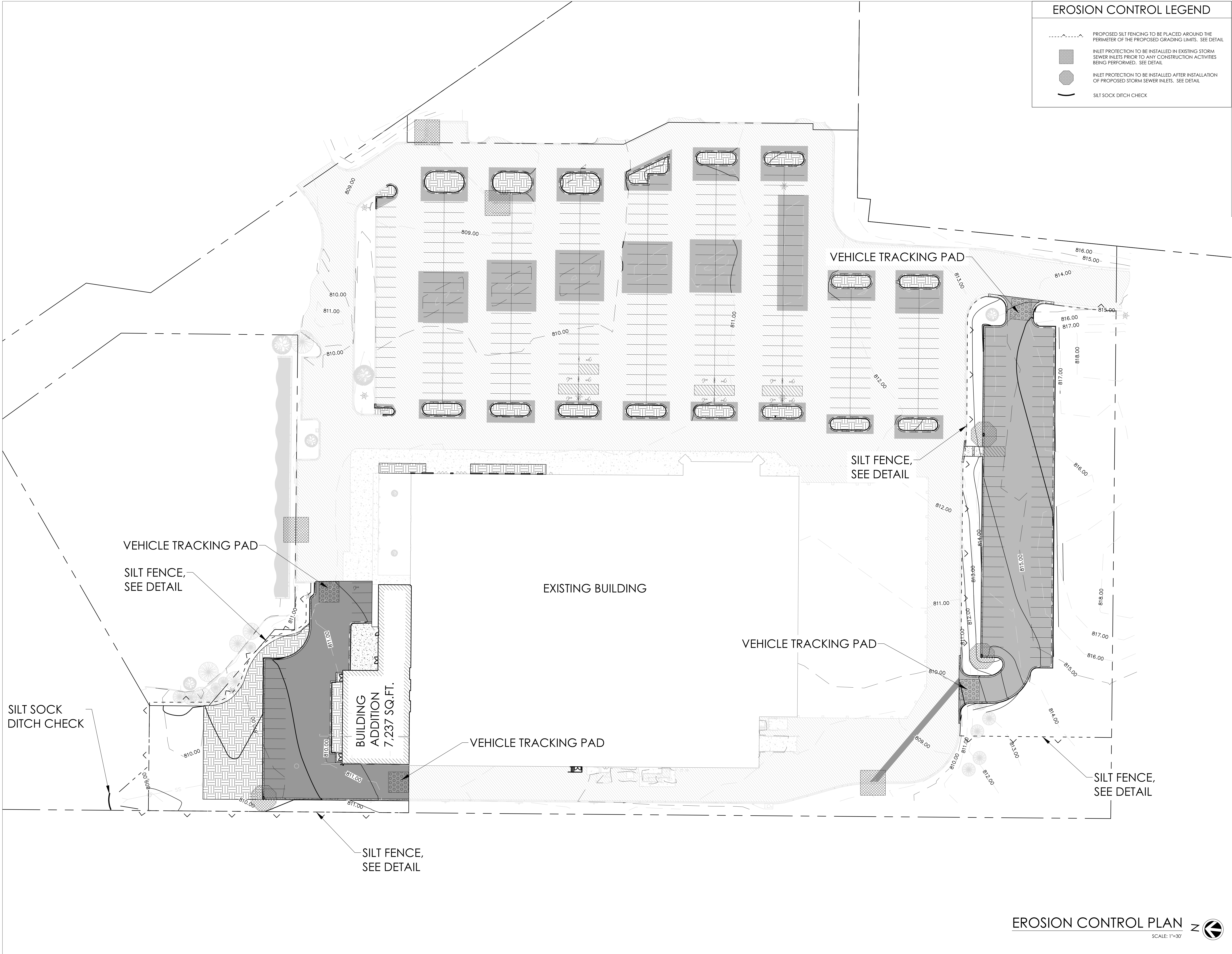
A
209

PROJ. NO. 2023-42

UTILITY PLAN SOUTH

SCALE: 1"=20'





EROSION CONTROL LEGEND

- PROPOSED SILT FENCING TO BE PLACED AROUND THE PERIMETER OF THE PROPOSED GRADING LIMITS. SEE DETAIL.
- INLET PROTECTION TO BE INSTALLED IN EXISTING STORM SEWER INLETS PRIOR TO ANY CONSTRUCTION ACTIVITIES BEING PERFORMED. SEE DETAIL.
- INLET PROTECTION TO BE INSTALLED AFTER INSTALLATION OF PROPOSED STORM SEWER INLETS. SEE DETAIL.
- SILT SOCK DITCH CHECK

ABACUS ARCHITECTS

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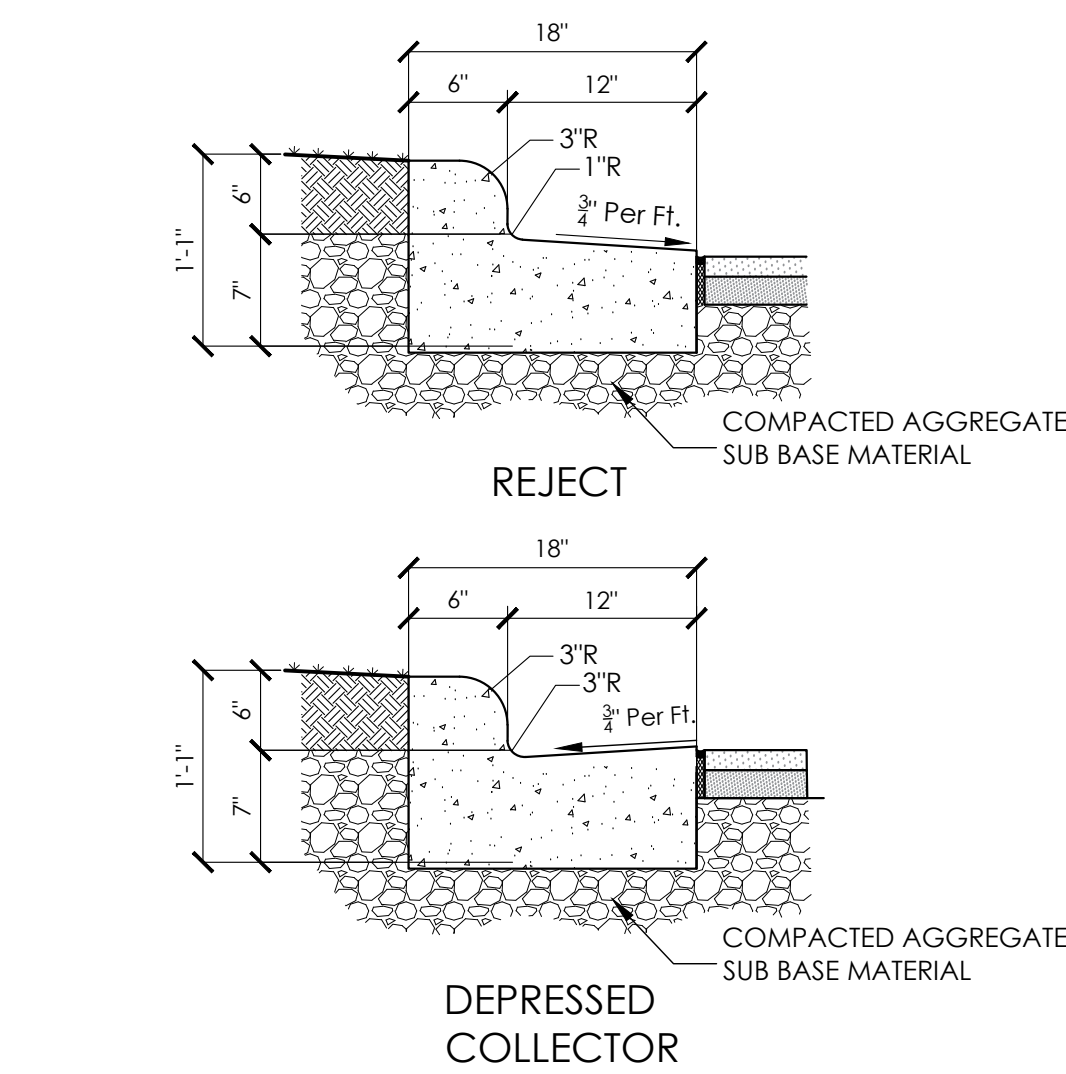
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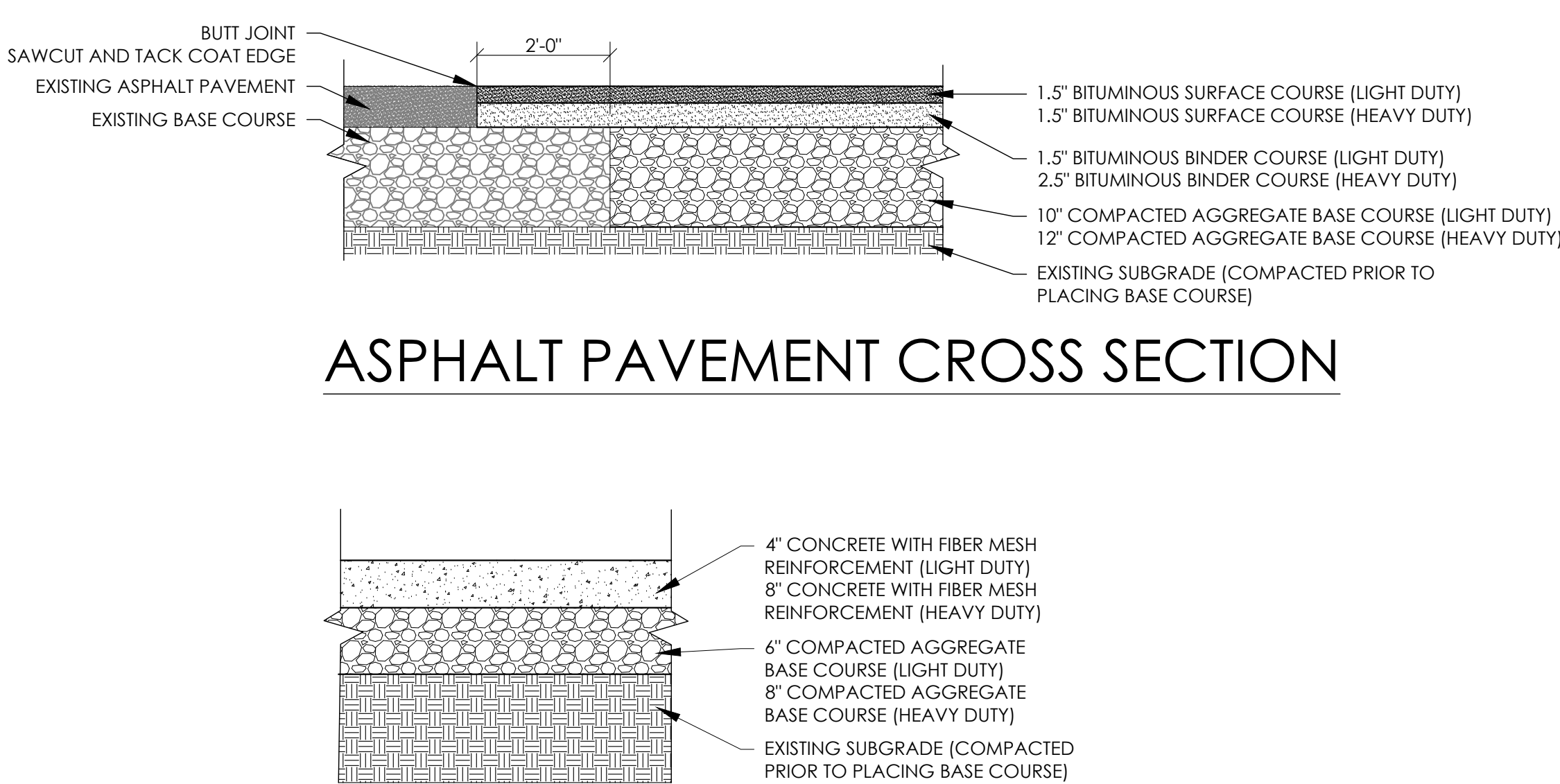
EROSION CONTROL PLAN

A 210

PROJ. NO. 2023-42

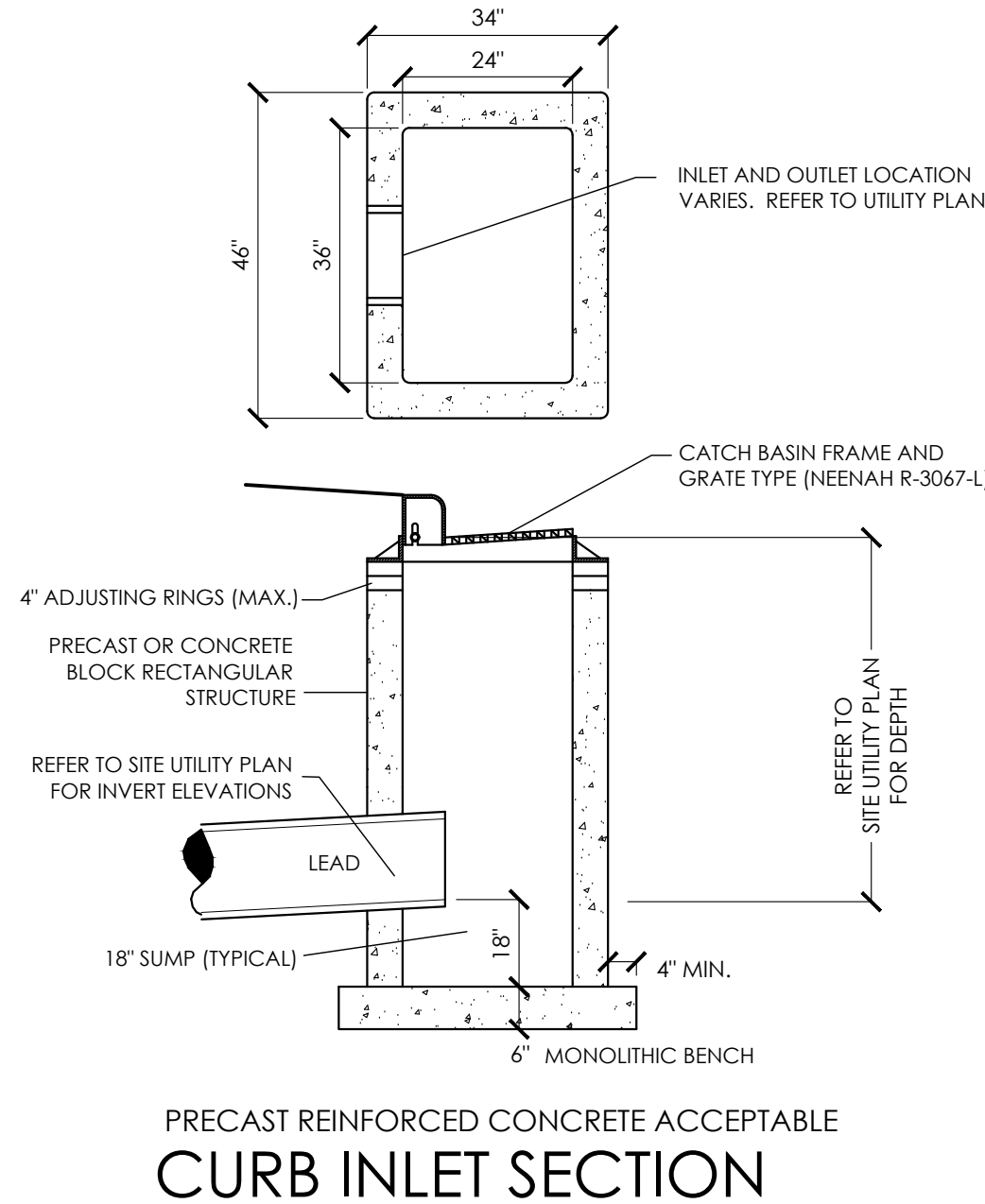


18" CURB & GUTTER SECTION

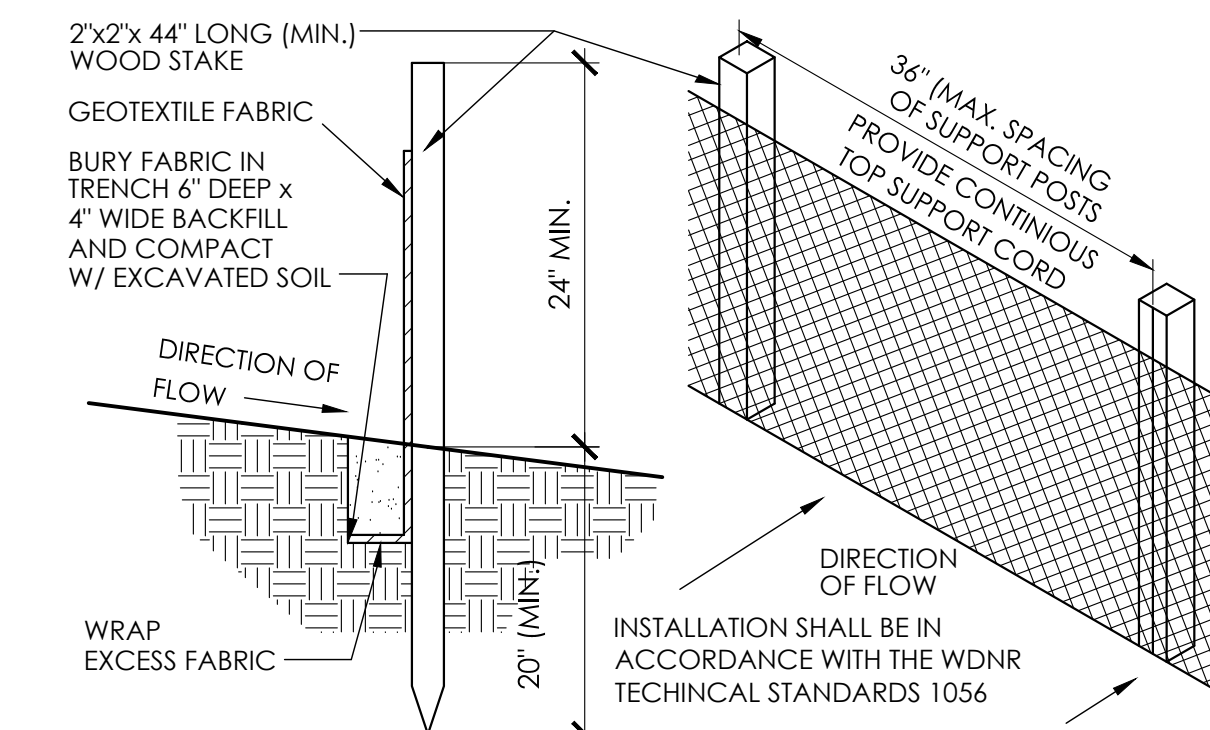


ASPHALT PAVEMENT CROSS SECTION

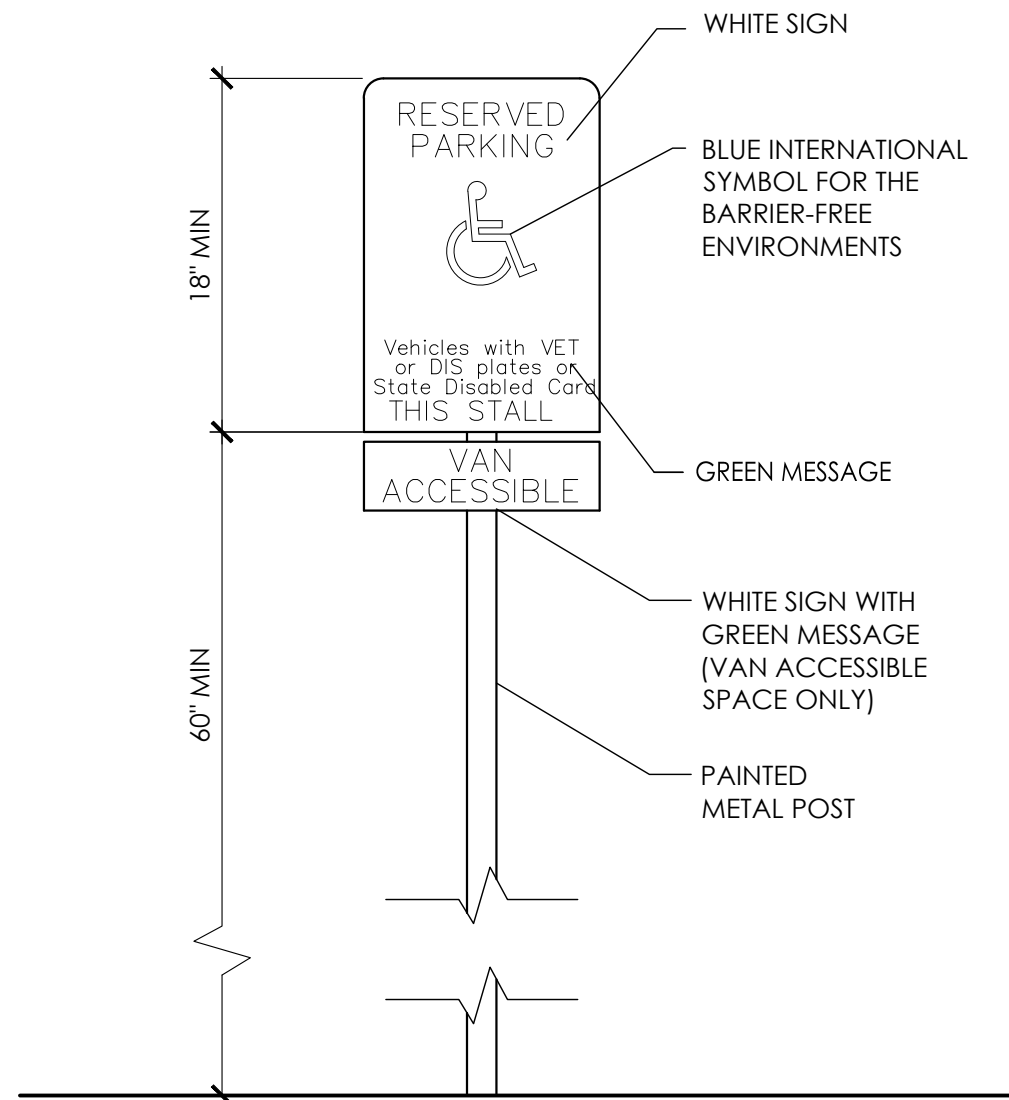
CONCRETE PAVEMENT CROSS SECTION



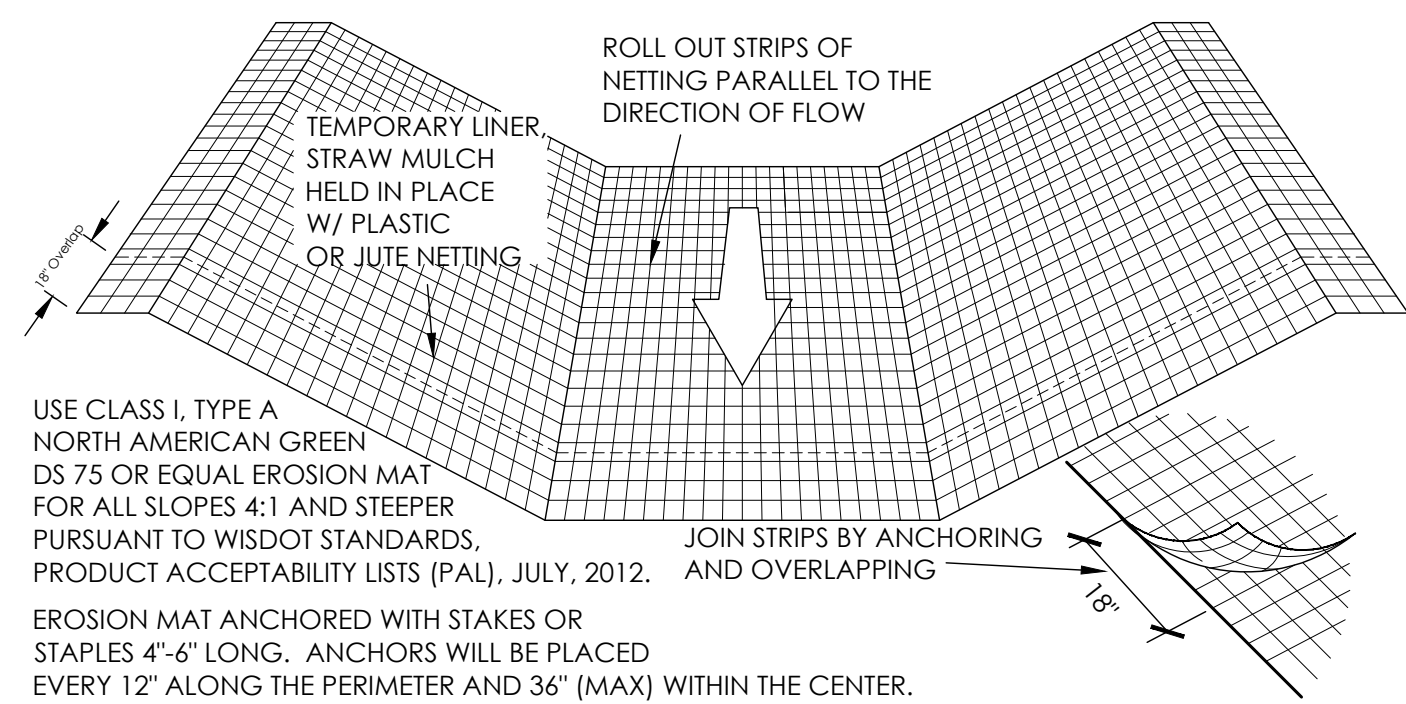
PRECAST REINFORCED CONCRETE ACCEPTABLE CURB INLET SECTION



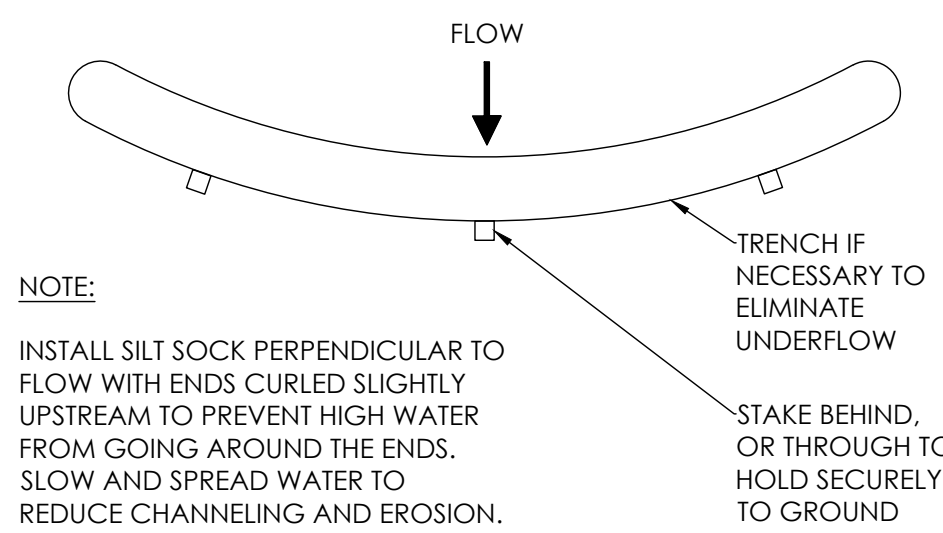
SILT FENCE SECTION & DETAIL



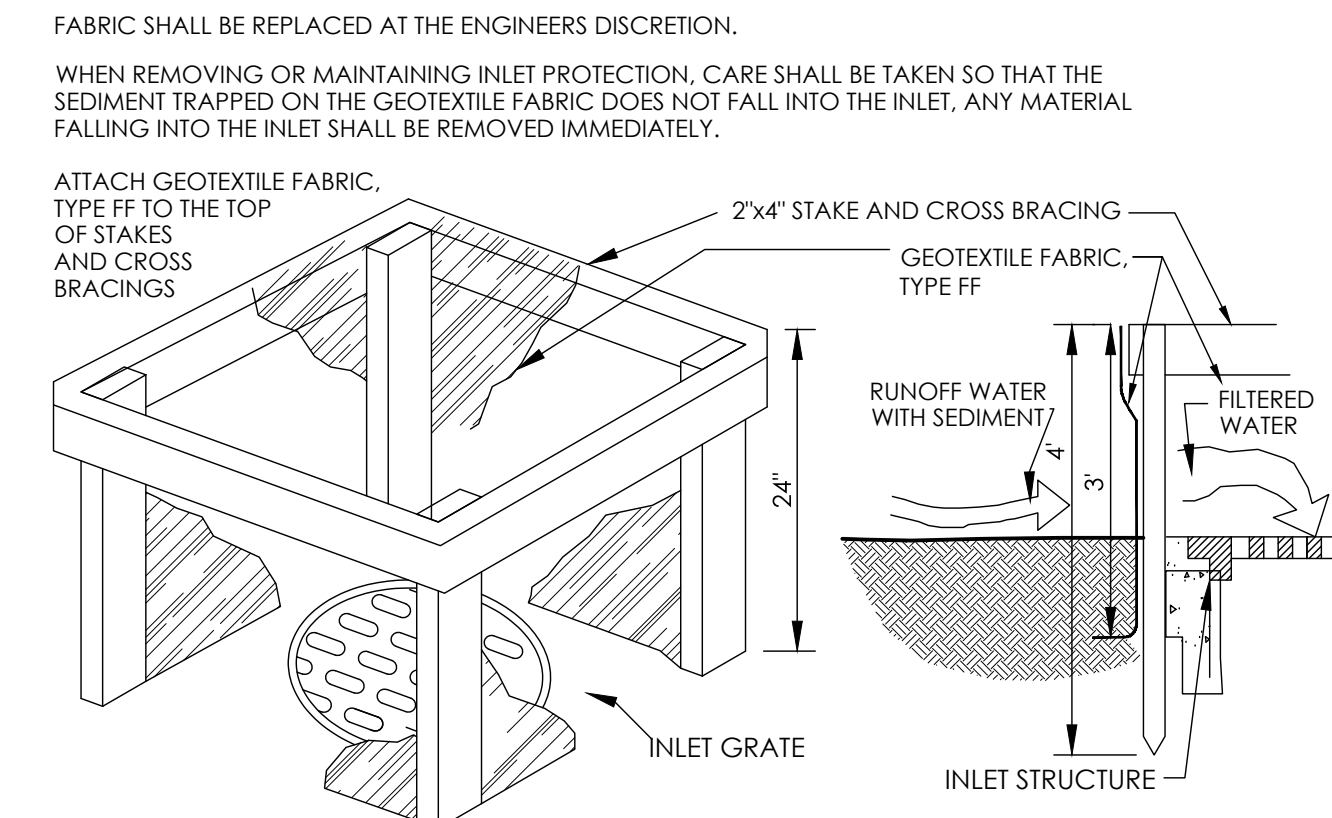
ACCESSIBLE PARKING SIGNAGE DETAIL



EROSION MATTING DETAIL
(FOR SIDE SLOPES ONLY - NOT FOR CHANNELIZED FLOW)

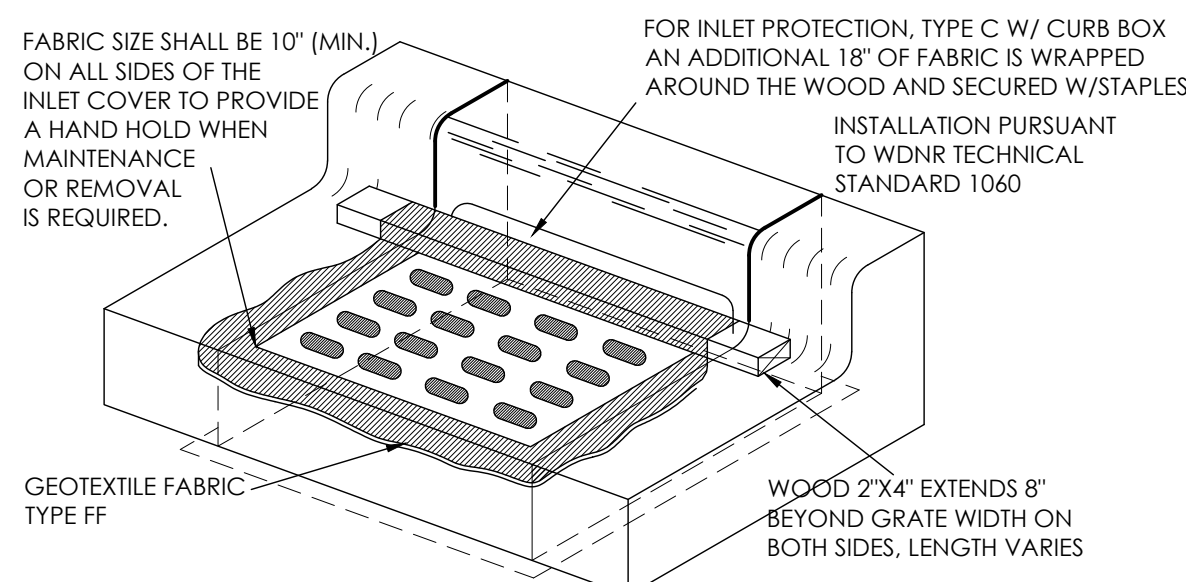


SILT SOCK DITCH CHECK



INLET PROTECTION, TYPE 'A'

INSTALLATION PURSUANT TO WDNr TECHNICAL STANDARD 1060



INLET PROTECTION, TYPE 'C'

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.
TYPE 'C' INLET PROTECTION TO BE IMPLEMENTED UPON CONSTRUCTION OF CURB AND GUTTER. PRIOR TO CURB AND GUTTER CONSTRUCTION, TYPE 'A' INLET PROTECTION SHALL BE PROVIDED.

REVISIONS:
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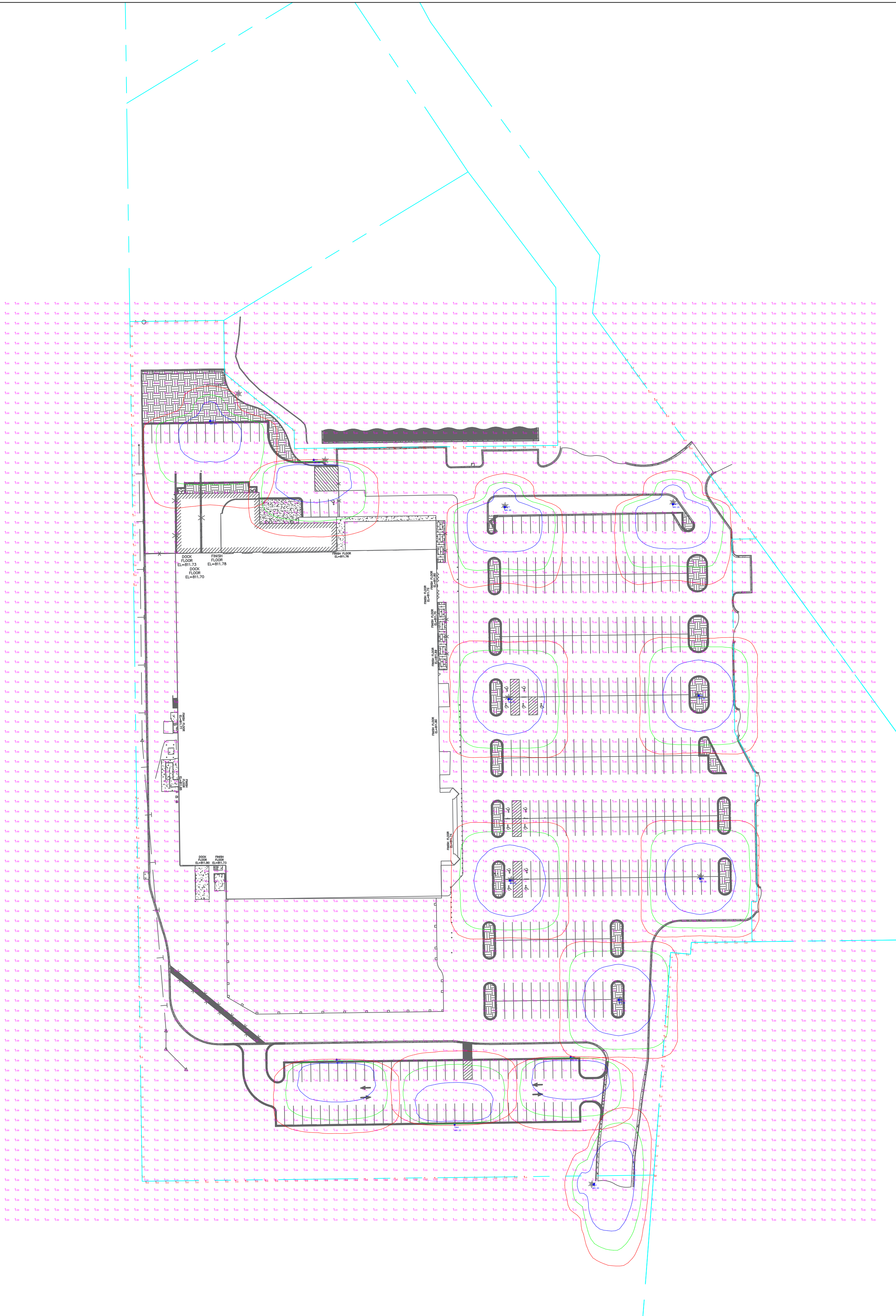
DRAWN BY: MBS
CHECKED BY: JRV
CIVIL DETAILS
A
211
PROJ. NO. 2023-42

PRELIMINARY - NOT FOR CONSTRUCTION

- NOTES:
- Customers are responsible for confirming mounting heights, fixture suspension types/ lengths, color temperature, CRI, linear fixture lengths, pole lengths, and bollard heights/ lengths prior to ordering.
 - Mounting height (MH) is measured from the bottom of the fixture to the floor.
 - This Lighting layout assumes the following unless values are specified and must be confirmed by the customer prior to ordering.
 - Room reflectance of 80, 50, 20 for standard ceilings and 50, 50, 20 for exposed ceilings
 - Wall sconces are mounted at 7' for calculation purposes. Customer must confirm desired mounting height before rough in.

Luminaire Schedule								
Label	Qty	Arrangement	LLF	Tag	Description	Lum. Watts	Total Watts	Lum. Lumens
OA3	1	Single	0.950	LITHONIA	DSX1 LED P3 xxK xxCRI T3M + 18FT POLE + 2FT BASE	102.17	102.17	12627
OA4	4	Single	0.950	LITHONIA	DSX1 LED P3 xxK xxCRI BLC4+ 18FT POLE + 2FT BASE	102.17	408.68	9485
OA5	5	Single	0.950	LITHONIA	DSX1 LED P3 xxK xxCRI T5M + 18FT POLE + 2FT BASE	102.17	510.85	13184
OAF1	3	Single	0.950	LITHONIA	DSX1 LED P3 xxK xxCRI TFTM + 18FT POLE + 2FT BASE	102.17	306.51	12904

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PRESUMED PROPERTY LINE EAST	Illuminance	Fc	0.26	1.0	0.0	N.A.	N.A.
PRESUMED PROPERTY LINE NORTH	Illuminance	Fc	0.03	0.1	0.0	N.A.	N.A.
PRESUMED PROPERTY LINE SOUTH	Illuminance	Fc	0.00	0.2	0.0	N.A.	N.A.
SITE PLAN EAST	Illuminance	Fc	0.49	3.39	0.01	49.00	339.00
SITE PLAN NORTH	Illuminance	Fc	1.04	2.22	0.27	3.85	8.22
SITE PLAN SOUTH	Illuminance	Fc	1.02	2.57	0.30	3.40	8.57

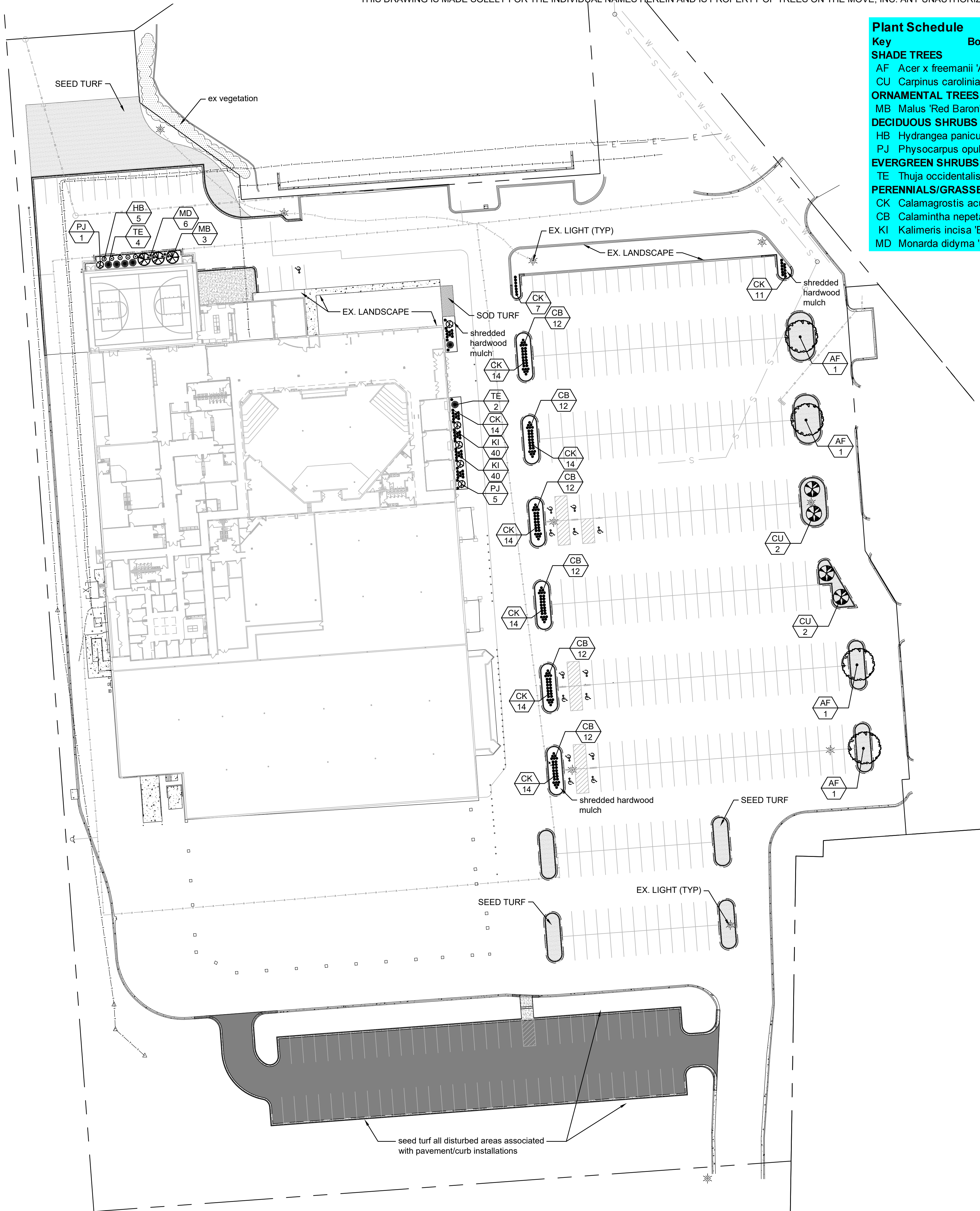




BROOKLIFE CHURCH MUKWONAGO, WISCONSIN SITE LIGHTING	DRAWN BY : LB DATE : FEB 11, 2025 SCALE : 1/64" = 1'-0"	REVISIONS		
		#	DATE	
		#	DATE	COMMENTS



WISCONSIN'S LARGEST
TREE TRANSPLANTERS



Plant Schedule						
Key	Botanical Name	Common Name	Qty.	Size	Root	Spacing
SHADE TREES						
AF	Acer x freemanii 'Autumn Fantasy'	Autumn Fantasy Maple	4	2-2.5" Cal.	B&B	as shown
CU	Carpinus caroliniana 'JN Upright'	Firespire Hornbeam	4	2-2.5" Cal.	B&B	as shown
ORNAMENTAL TREES						
MB	Malus 'Red Baron'	Red Baron Crab	3	1.5-2" Cal.	B&B	as shown
DECIDUOUS SHRUBS						
HB	Hydrangea paniculata 'Bobo'	Bobo Hydrangea	5	24" High	Container	8' o.c.
PJ	Physocarpus opulifolius 'Jefam' Amber Jubilee	Amber Jubilee Ninebark	6	24" High	Container	as shown
EVERGREEN SHRUBS						
TE	Thuja occidentalis 'Smaragd'	Emerald Arborvitae	6	4' High	B&B	as shown
PERENNIALS/GRASSES						
CK	Calamagrostis acutiflora 'Karl Foerster'	Feather Reed Grass	116	1 Gal.	Container	20" o.c.
CB	Calamintha nepeta 'Blue Cloud'	Blue Cloud Calamintha	72	QT.	Container	20" o.c.
KI	Kalimeris incisa 'Blue Star'	Blue Star Japanese Aster	40	Qt.	Container	20" o.c.
MD	Monarda didyma 'Gardenview Scarlet'	Gardenview Scarlet Bee Balm	6	QT	Container	32" o.c.



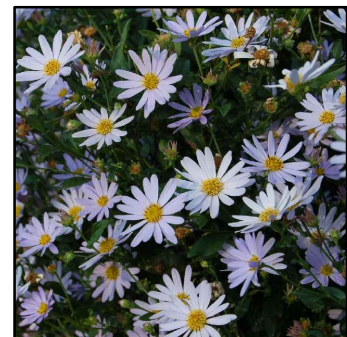
AMBER
JUBILEE
NINEBARK



AUTUMN
FANTASY
MAPLE



BLUE
CLOUD
CALAMINTHA



BLUE
STAR
JAPANESE
ASTER



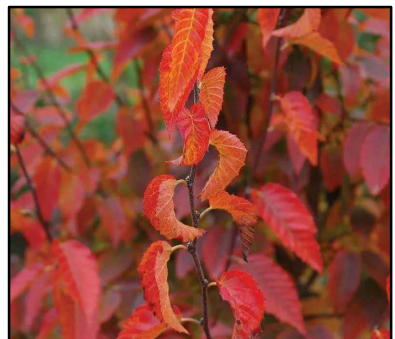
BOBO
HYDRANGEA



EMERALD
ARBORVITAE



FIRESIDE
HORNBEAM



FIRESIDE
HORNBEAM-fall



GARDENVIEW
SCARLET
BEE BALM



KARL
FOERSTER
REED
GRASS



RED
BARON
CRABAPPLE



Premier Landscapes

LANDSCAPE DEVELOPMENT FOR
BROOKLIFE CHURCH
1231 ROCHESTER STREET, SUITE 40
MUKWONAGO, WISCONSIN 53149

LANDSCAPE
ARCHITECTURE

DESIGN BY: GAR

DRAWN BY: GAR

DATE: 2/21/2025

REVISED:

SCALE: 1"=40'-0"

SHEET: L100

TREES
ON THE MOVE

5611 S. Calhoun Road
New Berlin, WI 53151
Phone: (262) 679-5200
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DIGGERS HOTLINE

Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com



LANDSCAPE PLAN

0 40' 80'



Enterprise Lighting Ltd
Manufacturers' Representative

Date: Feb 13, 2025

Enterprise Lighting, LTD.
2007 Pewaukee Rd.
Waukesha WI 53188
Phone: (262) 953-2700
Fax: (262) 953-2710

Job Name
Brooklife Church - Site
ELL25-135945
Mukwanago WI

Bid Date
Feb 10, 2025

Submittal Date
Feb 13, 2025



Enterprise Lighting Ltd
Manufacturers' Representative

Transmittal

Enterprise Lighting, LTD.
2007 Pewaukee Rd.
Waukesha WI 53188
Phone: (262) 953-2700
From: Bonnie Bartlein

Project Brooklife Church - Site
Quote# ELL25-135945
Location Mukwanago WI
Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- | | | |
|--|---|--------|
| ☒ Drawings | ☐ Specifications | Other: |
| ☐ Prints | ☐ Information | |
| ☐ Plans | ☐ Submittals | |

THESE ARE TRANSMITTED FOR:

- | | | |
|--|---|---------------------------------|
| ☐ Prior Approval | ☐ Resubmittal for Approval | ☐ Record |
| ☒ Approval | ☐ Corrections | Bids due on: |
| ☐ Approval as Submitted | ☐ Your Use | Other: |
| ☐ Approval as Noted | ☐ Review and Comment | |

Type	MFG	Part
OA3	Lithonia Exterior	DSX1 LED P3 XXK XXCRI T3M MVOLT SPA STD FINISH
OA3	Utility Metals- aka Fabricated Metals	SSS4-11-18-DM19AS-STD FINISH
OA4	Lithonia Exterior	DSX1 LED P3 XXK XXCRI BLC4 MVOLT SPA STD FINISH
OA4	Utility Metals- aka Fabricated Metals	SSS4-11-18-DM19AS-STD FINISH
OA5	Lithonia Exterior	DSX1 LED P3 XXK XXCRI T5M MVOLT SPA STD FINISH
OA5	Utility Metals- aka Fabricated Metals	SSS4-11-18-DM19AS-STD FINISH
OAFT	Lithonia Exterior	DSX1 LED P3 XXK XXCRI TFTM MVOLT SPA STD FINISH
OAFT	Utility Metals- aka Fabricated Metals	SSS4-11-18-DM19AS-STD FINISH



Job Name:
Brooklife Church - Site

Catalog Number:
DSX1 LED P3 XXK XXCRI T3M
MVOLT SPA STD FINISH
Notes:

Type:

OA3

ELL25-135945



D-Series Size 1 LED Area Luminaire



d-series

Specifications

EPA: 0.69 ft²
(0.06 m²)

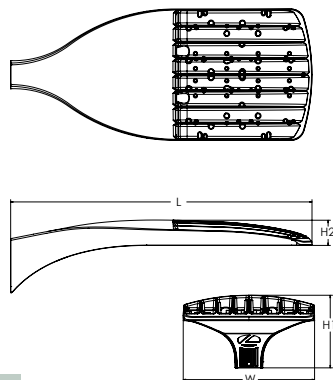
Length: 32.71"
(83.1 cm)

Width: 14.26"
(36.2 cm)

Height H1: 7.88"
(20.0 cm)

Height H2: 2.73"
(6.9 cm)

Weight: 34 lbs
(15.4 kg)



Design Select options indicated
by this color background.

Catalog
Number

Notes

Type

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

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.



design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.

*See ordering tree for details

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED	XXK = Specify	XXCRI = Specify				
Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 P5 Rotated optics P10 ¹ P12 ¹ P11 ¹ P13 ¹	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare ³ T4M Type IV medium T4LG Type IV low glare ³ TFTM Forward throw medium TSM Type V medium TSLG Type V low glare TSW Type V wide BLC3 Type III backlight control ³ BLC4 Type IV backlight control ³ LCCO Left corner cutoff ³ RCCO Right corner cutoff ³	MVOLT (120V-277V)⁴ HVOLT (347V-480V)^{5,6} XVOLT (277V - 480V)^{7,8} 120 ^{16,26} 208 ^{16,26} 240 ^{16,26} 277 ^{16,26} 347 ^{16,26} 480 ^{16,26}	Shipped included SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPA5 Square pole mounting #5 drilling ⁹ RPA5 Round pole mounting #5 drilling ⁹ SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket ¹⁰ MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options	Other options	STD FINISH = Specify
Shipped installed	Shipped installed	Finish (required)
NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{11,12,20,21}	SPD20KV 20KV surge protection	DDBXD Dark Bronze
PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{13,20,21}	HS Houseside shield (black finish standard) ²²	DBLXD Black
PER NEMA twist-lock receptacle only (controls ordered separate) ¹⁴	L90 Left rotated optics ¹	DNAXD Natural Aluminum
PERS Five-pin receptacle only (controls ordered separate) ^{14,21}	R90 Right rotated optics ¹	DWHXD White
PER7 Seven-pin receptacle only (controls ordered separate) ^{14,21}	CCE Coastal Construction ²³	DBTDXD Textured dark bronze
FAO Field adjustable output ^{15,21}	HA 50°C ambient operation ²⁴	DBLBDX Textured black
BL30 Bi-level switched dimming, 30% ^{16,21}	BAA Buy America(n) Act and/or Build America Buy America Qualified	DNATXD Textured natural aluminum
BL50 Bi-level switched dimming, 50% ^{16,21}	SF Single fuse (120, 277, 347V) ²⁶	DWHGXD Textured white
DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷	DF Double fuse (208, 240, 480V) ²⁶	
DS Dual switching ^{18,19,21}	Shipped separately	
	EGSR External Glare Shield (reversible, field install required, matches housing finish)	
	BSD Bird Spikes (field install required)	



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DSX1-LED
Rev. 01/28/25
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Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁵
DSHORT SBK	Shorting cap ²⁵
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPAS (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXIEGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

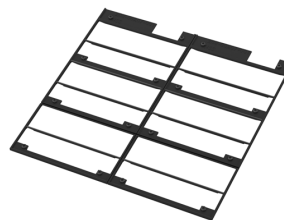
NOTES

- Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- XVOLT not available in packages P1 or P10. XVOLT not available with fusing (SF or DF).
- SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
- WBA cannot be combined with Type S distributions plus photocell (PER).
- NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this [link](#).
- NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.
- PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOLT.
- PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
- BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120 or 277V.
- DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
- DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
- DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
- Reference Motion Sensor Default Settings table on page 4 to see functionality.
- Reference Controls Options table on page 4.
- HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



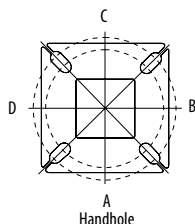
External Glare Shield (EGSR)



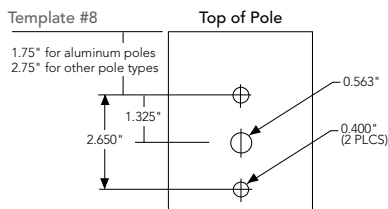
House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION



Handhole



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5190	AS3-5280	AS3-5290	AS3-5390	AS3-5320	AS3-5490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

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

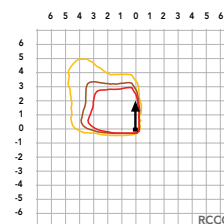
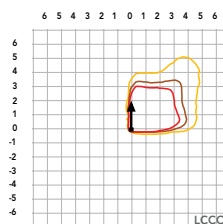
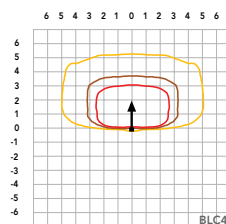
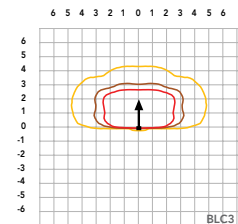
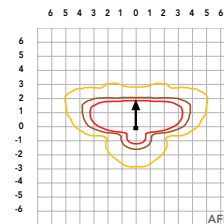
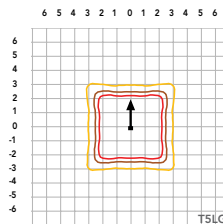
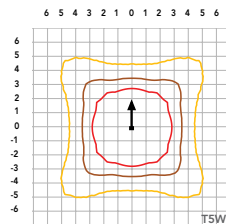
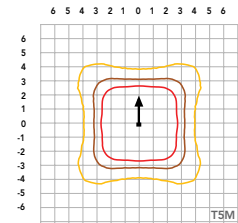
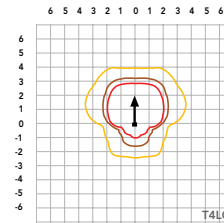
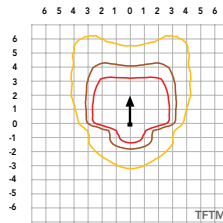
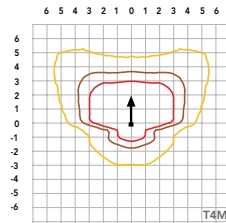
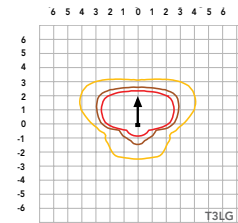
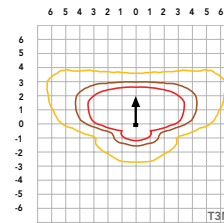
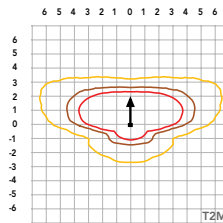
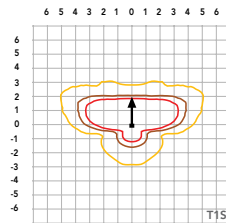
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09



Photometric Diagrams

 To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [homepage](https://www.lithonia.com).

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

LEGEND
 0.1 fc
 0.5 fc
 1.0 fc


Performance Data

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.04
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

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	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current (mA)	Wattage	120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Edypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics														
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K				
					(3000K, 70 CRI)					(4000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159
				T2M	7,203	1	0	3	142	7,507	2	0	3	147
				T3M	7,287	1	0	3	143	7,594	1	0	3	149
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133
				T4M	7,395	1	0	3	145	7,707	1	0	3	151
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152
				T5M	7,609	3	0	2	149	7,930	3	0	2	156
				T5W	7,732	3	0	2	152	8,058	4	0	2	158
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109
				AFR	7,776	1	0	2	153	8,104	1	0	2	159
				T1S	9,997	1	0	2	147	10,418	1	0	2	154
				T2M	9,260	2	0	3	137	9,651	2	0	3	142
P2	68W	30	700	T3M	9,368	2	0	3	138	9,763	2	0	3	144
				T3LG	8,368	1	0	2	123	8,721	1	0	2	129
				T4M	9,507	2	0	3	140	9,909	2	0	3	146
				T4LG	8,647	1	0	2	128	9,012	1	0	2	133
				TFTM	9,573	2	0	3	141	9,977	2	0	3	147
				T5M	9,782	4	0	2	144	10,195	4	0	2	150
				T5W	9,940	4	0	2	147	10,360	4	0	2	153
				T5LG	9,810	3	0	1	145	10,224	3	0	1	151
				BLC3	6,814	0	0	2	101	7,101	0	0	2	105
				BLC4	7,038	0	0	3	104	7,334	0	0	3	108
				RCCO	6,875	1	0	2	101	7,165	1	0	2	106
				LCCO	6,875	1	0	2	101	7,165	1	0	2	106
				AFR	9,997	1	0	2	147	10,418	1	0	2	154
				T1S	14,093	2	0	2	138	14,687	2	0	2	144
				T2M	13,055	2	0	3	128	13,605	2	0	3	133
				T3M	13,206	2	0	4	129	13,763	2	0	4	135
P3	102W	30	1050	T3LG	11,797	2	0	2	115	12,294	2	0	2	120
				T4M	13,403	2	0	4	131	13,968	2	0	4	137
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138
				T5M	13,790	4	0	2	135	14,371	4	0	2	141
				T5W	14,013	4	0	3	137	14,605	4	0	3	143
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99
				AFR	14,093	2	0	2	138	14,687	2	0	2	144
				T1S	14,093	2	0	2	138	14,687	2	0	2	144
				T2M	13,055	2	0	3	128	13,605	2	0	3	133
				T3M	13,206	2	0	4	129	13,763	2	0	4	135
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120
				T4M	13,403	2	0	4	131	13,968	2	0	4	137
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138
				T5M	13,790	4	0	2	135	14,371	4	0	2	141
				T5W	14,013	4	0	3	137	14,605	4	0	3	143
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99
				AFR	14,093	2	0	2	138	14,687	2	0	2	144

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																				
Performance Package	System Watts		LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
						(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
						Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141	
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130	
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132	
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118	
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134	
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122	
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135	
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138	
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140	
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138	
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96	
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99	
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97	
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97	
				AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141	
				P5	138W	30	1400	T1S	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2
T2M	16,723	3	0					4	121	17,428	3	0	4	126	17,768	3	0	4	129	
T3M	16,917	3	0					4	122	17,630	3	0	4	128	17,974	3	0	4	130	
T3LG	15,111	2	0					2	109	15,749	2	0	2	114	16,055	2	0	2	116	
T4M	17,169	3	0					5	124	17,893	3	0	5	130	18,242	3	0	5	132	
T4LG	15,615	2	0					2	113	16,274	2	0	2	118	16,591	2	0	2	120	
TFTM	17,288	2	0					4	125	18,017	2	0	5	130	18,368	3	0	5	133	
T5M	17,664	5	0					3	128	18,410	5	0	3	133	18,768	5	0	3	136	
T5W	17,951	5	0					3	130	18,708	5	0	3	135	19,073	5	0	3	138	
T5LG	17,716	4	0					2	128	18,463	4	0	2	134	18,823	4	0	2	136	
BLC3	12,305	0	0					3	89	12,824	0	0	3	93	13,074	0	0	3	95	
BLC4	12,709	0	0					4	92	13,245	0	0	4	96	13,503	0	0	4	98	
RCCO	12,416	1	0					3	90	12,940	1	0	3	94	13,192	1	0	3	95	
LCCO	12,416	1	0					3	90	12,940	1	0	3	94	13,192	1	0	3	95	
AFR	18,052	2	0					3	131	18,814	2	0	3	136	19,180	2	0	3	139	
P6	165W	40	1250					T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2
				T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125	
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127	
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113	
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129	
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117	
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129	
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132	
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134	
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133	
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92	
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95	
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93	
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93	
				AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135	

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P7	184W	40	1400	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				LCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P8	216W	60	1100	T2M	26,587	3	0	5	123	27,709	3	0	5	128	28,249	3	0	5	131
				T3M	26,895	3	0	5	125	28,030	3	0	5	130	28,576	3	0	5	132
				T3LG	24,025	3	0	3	111	25,038	3	0	3	116	25,526	3	0	3	118
				T4M	27,296	3	0	5	127	28,448	3	0	5	132	29,002	3	0	5	134
				T4LG	24,826	3	0	3	115	25,873	3	0	3	120	26,378	3	0	3	122
				TFTM	27,485	3	0	5	127	28,645	3	0	5	133	29,203	3	0	5	135
				T5M	28,084	5	0	4	130	29,269	5	0	4	136	29,839	5	0	4	138
				T5W	28,539	5	0	4	132	29,743	5	0	4	138	30,323	5	0	4	141
				T5LG	28,165	4	0	2	131	29,354	4	0	2	136	29,926	4	0	2	139
				BLC3	19,563	0	0	4	91	20,388	0	0	4	94	20,786	0	0	4	96
				BLC4	20,205	0	0	5	94	21,057	0	0	5	98	21,468	0	0	5	99
				RCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				LCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				AFR	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
				T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
P9	277W	60	1400	T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Rotated Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P10	101W	60	530	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159				
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147				
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149				
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133				
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151				
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138				
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152				
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156				
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158				
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156				
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108				
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112				
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109				
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109				
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159				
				P11	135W	60	700	T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
								T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
								T3M	18,211	4	0	4	135	18,980	4	0	4	141	19,350	4	0	4	143
T3LG	16,270	3	0					3	121	16,957	3	0	3	126	17,287	4	0	4	128				
T4M	18,483	4	0					4	137	19,263	5	0	5	143	19,638	5	0	5	146				
T4LG	16,810	3	0					3	125	17,519	3	0	3	130	17,861	3	0	3	132				
TFTM	18,614	4	0					4	138	19,399	4	0	4	144	19,777	5	0	5	147				
T5M	19,017	5	0					3	141	19,819	5	0	3	147	20,205	5	0	3	150				
T5W	19,325	5	0					3	143	20,140	5	0	3	149	20,533	5	0	3	152				
T5LG	19,072	4	0					2	141	19,876	4	0	2	147	20,264	4	0	2	150				
BLC3	13,247	4	0					4	98	13,806	4	0	4	102	14,075	4	0	4	104				
BLC4	13,682	4	0					4	101	14,259	4	0	4	106	14,537	4	0	4	108				
RCCO	13,367	1	0					3	99	13,931	1	0	3	103	14,203	1	0	3	105				
LCCO	13,367	1	0					3	99	13,931	1	0	3	103	14,203	1	0	3	105				
AFR	19,437	4	0					4	144	20,257	4	0	4	150	20,651	4	0	4	153				
P12	206W	60	1050					T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
								T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
								T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119				
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135				
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123				
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136				
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139				
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141				
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139				
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97				
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100				
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97				
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97				
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142				
				P13	276W	60	1400	T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
								T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
								T3M	32,265	5	0	5	117	33,626	5	0	5	122	34,282	5	0	5	124
T3LG	28,826	4	0					4	105	30,042	4	0	4	109	30,628	4	0	4	111				
T4M	32,746	5	0					5	119	34,128	5	0	5	124	34,793	5	0	5	126				
T4LG	29,782	4	0					4	108	31,039	4	0	4	113	31,644	5	0	4	115				
TFTM	32,978	5	0					5	120	34,369	5	0	5	125	35,039	5	0	5	127				
T5M	33,692	5	0					4	122	35,113	5	0	4	127	35,797	5	0	4	130				
T5W	34,238	5	0					4	124	35,682	5	0	4	129	36,378	5	0	4	132				
T5LG	33,789	5	0					3	122	35,215	5	0	3	128	35,901	5	0	3	130				
BLC3	23,471	5	0					5	85	24,461	5	0	5	89	24,937	5	0	5	90				
BLC4	24,240	5	0					5	88	25,262	5	0	5	92	25,755	5	0	5	93				
RCCO	23,683	1	0					4	86	24,682	1	0	4	89	25,163	1	0	4	91				
LCCO	23,683	1	0					4	86	24,682	1	0	4	89	25,163	1	0	4	91				
AFR	34,436	5	0					5	125	35,889	5	0	5	130	36,588	5	0	5	133				



Job Name:
Brooklife Church - Site

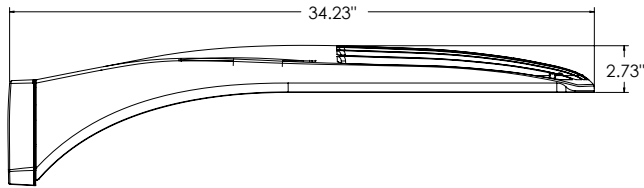
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DSX1 LED P3 XXK XXCRI T3M
MVOLT SPA STD FINISH
Notes:

Type:

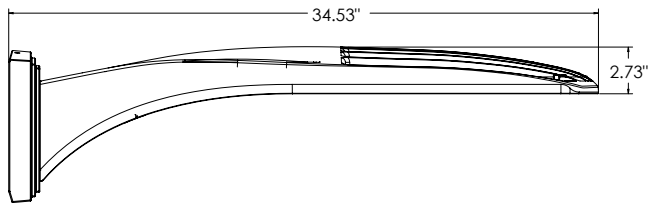
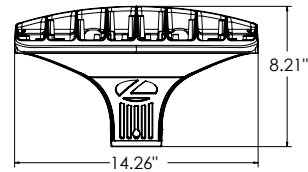
OA3

ELL25-135945

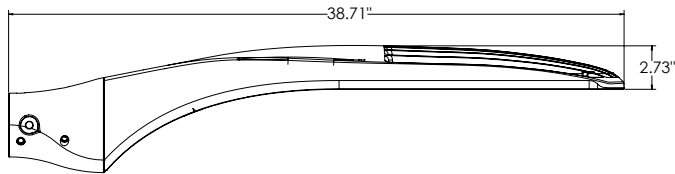
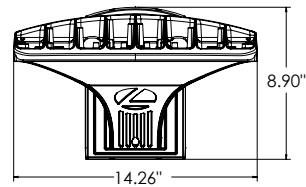
Dimensions



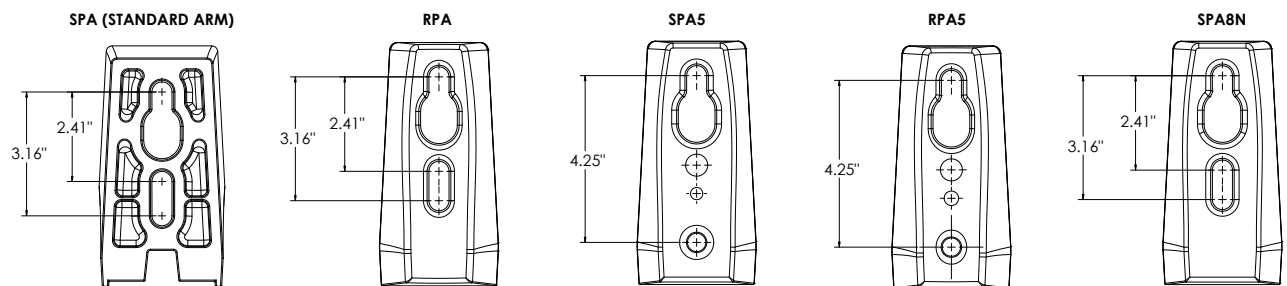
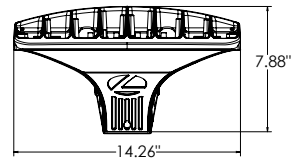
DSX1 with RPA, RPA5, SPA5, SPA8N mount
Weight: 36 lbs



DSX1 with WBA mount
Weight: 38 lbs



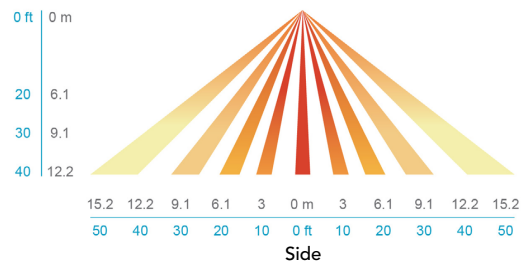
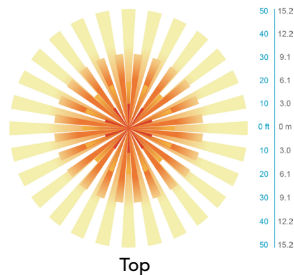
DSX1 with MA mount
Weight: 39 lbs



nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

Coastal Construction (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 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 configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX1 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 and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once 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 mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

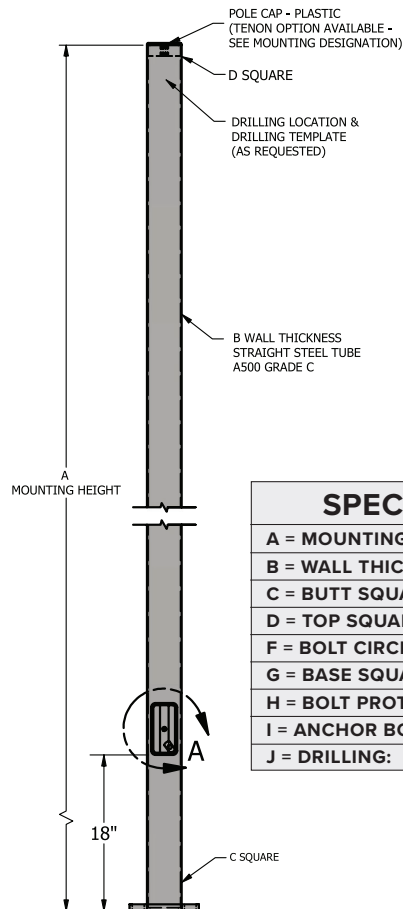
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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

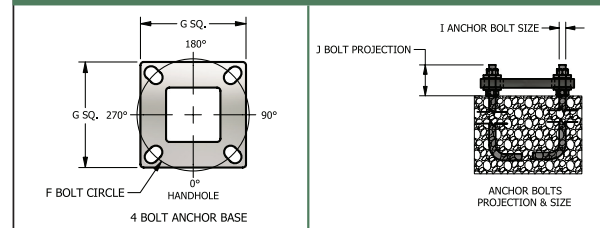
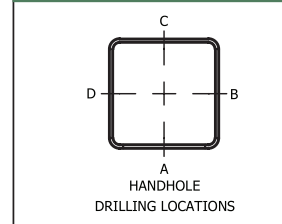
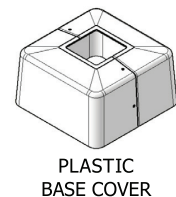

UTILITY METALS

A DIVISION OF FABRICATED METALS LLC.

JOB NAME		PART NO.	
DESCRIPTION:		DRAWING NO.	REV
DRAWN BY:	APPROVED:	ECN:	SCALE:
		DATE:	

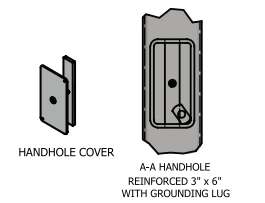
**SPECIFICATIONS**

A = MOUNTING HEIGHT:
B = WALL THICKNESS: 11 GA.
C = BUTT SQUARE: 4"
D = TOP SQUARE: 4"
F = BOLT CIRCLE RANGE: 8" - 9"
G = BASE SQUARE: 8"
H = BOLT PROTECTION: 3.12"
I = ANCHOR BOLT SIZE: 3/4" X 20" X 3"
J = DRILLING:

ANCHORAGE**FIXTURE****BASE**

DM19AS = Drill mounting 1 at 90

STD FINISH = Specify

HANDHOLE**2013 AASHTO MAXIMUM EPA RATINGS WITH 3 SEC. WIND GUST****STEEL SQUARE STRAIGHT POLE SSS 4 11 SERIES**

PART NUMBER	80 MPH SQ FT	90 MPH SQ FT	100 MPH SQ FT	110 MPH SQ FT	120 MPH SQ FT	130 MPH SQ FT	140 MPH SQ FT
SSS 4 11 10	39.47	30.68	24.40	19.75	16.22	13.46	9.52
SSS 4 11 12	31.97	24.66	19.43	15.56	12.62	10.32	7.04
SSS 4 11 14	26.38	20.18	15.71	12.40	9.89	7.93	5.12
SSS 4 11 15	23.98	18.30	14.14	11.06	8.72	6.90	4.29
SSS 4 11 16	22.08	16.64	12.75	9.88	7.69	5.98	3.54
SSS 4 11 18	16.28	13.79	10.35	7.81	5.87	4.37	2.21
SSS 4 11 20	14.37	10.40	7.56	5.46	3.86	2.62	0.83
SSS 4 11 22	12.02	8.44	5.88	3.98	2.54	1.42	0.00
SSS 4 11 25	9.04	5.52	3.43	1.89	0.72	0.00	0.00



Job Name:
Brooklife Church - Site

Catalog Number:
DSX1 LED P3 XXK XXCRI BLC4
MVOLT SPA STD FINISH
Notes:

Type:

OA4

ELL25-135945



D-Series Size 1 LED Area Luminaire



d-series

Specifications

EPA: 0.69 ft²
(0.06 m²)

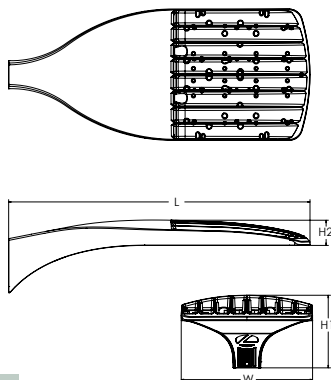
Length: 32.71"
(83.1 cm)

Width: 14.26"
(36.2 cm)

Height H1: 7.88"
(20.0 cm)

Height H2: 2.73"
(6.9 cm)

Weight: 34 lbs
(15.4 kg)



ds Design Select options indicated by this color background.

Catalog
Number

Notes

Type

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

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.

*See ordering tree for details

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED	XXK = Specify	XXCRI = Specify				
Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 P5 Rotated optics P10 ¹ P12 ¹ P11 ¹ P13 ¹	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare ³ T4M Type IV medium T4LG Type IV low glare ³ TFTM Forward throw medium TSM Type V medium TSLG Type V low glare TSW Type V wide BLC3 Type III backlight control ³ BLC4 Type IV backlight control ³ LCCO Left corner cutoff ³ RCCO Right corner cutoff ³	MVOLT (120V-277V) ⁴ HVOLT (347V-480V) ^{5,6} XVOLT (277V - 480V) ^{7,8} 120 ^{16,26} 208 ^{16,26} 240 ^{16,26} 277 ^{16,26} 347 ^{16,26} 480 ^{16,26}	Shipped included SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPA5 Square pole mounting #5 drilling ⁹ RPA5 Round pole mounting #5 drilling ⁹ SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket ¹⁰ MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options	Other options	STD FINISH = Specify
Shipped installed NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{11,12,20,21} PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{13,20,21} PER NEMA twist-lock receptacle only (controls ordered separate) ¹⁴ PERS Five-pin receptacle only (controls ordered separate) ^{14,21}	PER7 Seven-pin receptacle only (controls ordered separate) ^{14,21} FAO Field adjustable output ^{15,21} BL30 Bi-level switched dimming, 30% ^{16,21} BL50 Bi-level switched dimming, 50% ^{16,21} DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷ DS Dual switching ^{18,19,21} SPD20KV 20KV surge protection HS Houseside shield (black finish standard) ²² L90 Left rotated optics ¹ R90 Right rotated optics ¹ CCE Coastal Construction ²³ HA 50°C ambient operation ²⁴ BAA Buy America(n) Act and/or Build America Buy America Qualified SF Single fuse (120, 277, 347V) ²⁶ DF Double fuse (208, 240, 480V) ²⁶ Shipped separately EGSR External Glare Shield (reversible, field install required, matches housing finish) BSDB Bird Spikes (field install required)	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DBBTD Textured dark bronze DBLXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



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DSX1-LED
Rev. 01/28/25
Page 1 of 10



Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁵
DSHORT SBK	Shorting cap ²⁵
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPAS (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXIEGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

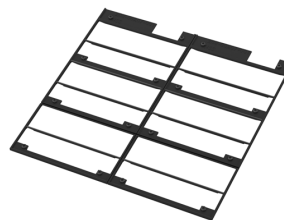
NOTES

- Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- SPAS and RPAS for use with #5 drilling only (Not for use with #8 drilling).
- WBA cannot be combined with Type S distributions plus photocell (PER).
- NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this [link](#).
- NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.
- PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOLT.
- PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
- BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120 or 277V.
- DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
- DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
- DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
- Reference Motion Sensor Default Settings table on page 4 to see functionality.
- Reference Controls Options table on page 4.
- HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



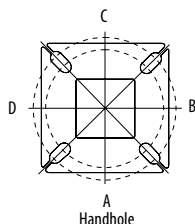
External Glare Shield (EGSR)



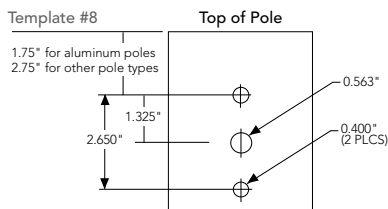
House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION



Handhole



Tenon Mounting Slipfitter

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

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPAS	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

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

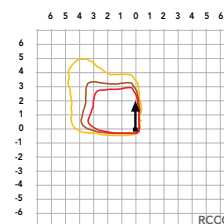
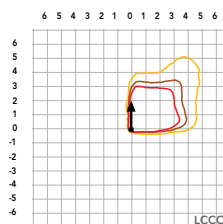
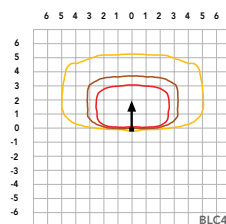
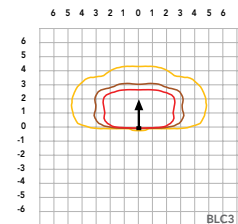
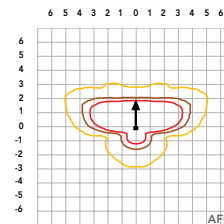
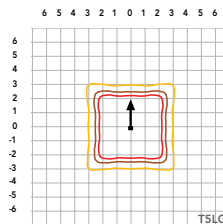
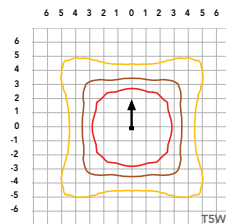
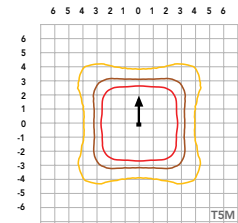
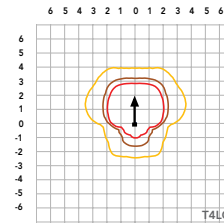
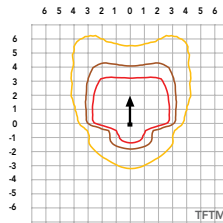
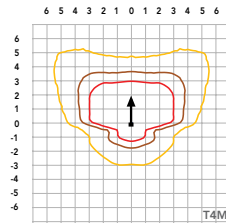
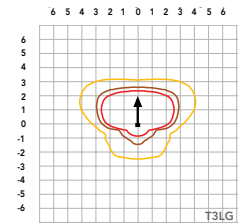
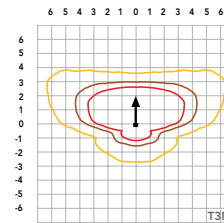
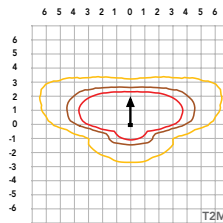
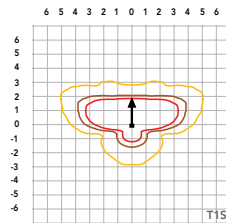
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPAS	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09



Photometric Diagrams

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

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

LEGEND
 0.1 fc
 0.5 fc
 1.0 fc


Performance Data

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.04
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

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	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)					
					120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Edypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162				
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150				
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152				
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136				
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154				
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140				
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155				
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159				
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161				
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159				
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111				
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114				
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112				
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112				
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162				
				P2	68W	30	700	T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
								T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	145
T3M	9,368	2	0					3	138	9,763	2	0	3	144	9,953	2	0	3	147				
T3LG	8,368	1	0					2	123	8,721	1	0	2	129	8,891	1	0	2	131				
T4M	9,507	2	0					3	140	9,909	2	0	3	146	10,102	2	0	3	149				
T4LG	8,647	1	0					2	128	9,012	1	0	2	133	9,187	1	0	2	136				
TFTM	9,573	2	0					3	141	9,977	2	0	3	147	10,172	2	0	3	150				
T5M	9,782	4	0					2	144	10,195	4	0	2	150	10,393	4	0	2	153				
T5W	9,940	4	0					2	147	10,360	4	0	2	153	10,562	4	0	2	156				
T5LG	9,810	3	0					1	145	10,224	3	0	1	151	10,423	3	0	1	154				
BLC3	6,814	0	0					2	101	7,101	0	0	2	105	7,240	0	0	2	107				
BLC4	7,038	0	0					3	104	7,334	0	0	3	108	7,477	0	0	3	110				
RCCO	6,875	1	0					2	101	7,165	1	0	2	106	7,305	1	0	2	108				
LCCO	6,875	1	0					2	101	7,165	1	0	2	106	7,305	1	0	2	108				
AFR	9,997	1	0					2	147	10,418	1	0	2	154	10,621	1	0	2	157				
P3	102W	30	1050					T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147
								T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137				
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123				
				T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139				
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127				
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140				
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143				
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146				
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144				
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100				
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103				
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101				
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101				
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147				

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				P5	138W	30	1400	AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442
T1S	18,052	2	0					3	131	18,814	2	0	3	136	19,180	2	0	3	139
T2M	16,723	3	0					4	121	17,428	3	0	4	126	17,768	3	0	4	129
T3M	16,917	3	0					4	122	17,630	3	0	4	128	17,974	3	0	4	130
T3LG	15,111	2	0					2	109	15,749	2	0	2	114	16,055	2	0	2	116
T4M	17,169	3	0					5	124	17,893	3	0	5	130	18,242	3	0	5	132
T4LG	15,615	2	0					2	113	16,274	2	0	2	118	16,591	2	0	2	120
TFTM	17,288	2	0					4	125	18,017	2	0	5	130	18,368	3	0	5	133
T5M	17,664	5	0					3	128	18,410	5	0	3	133	18,768	5	0	3	136
T5W	17,951	5	0					3	130	18,708	5	0	3	135	19,073	5	0	3	138
T5LG	17,716	4	0					2	128	18,463	4	0	2	134	18,823	4	0	2	136
BLC3	12,305	0	0					3	89	12,824	0	0	3	93	13,074	0	0	3	95
BLC4	12,709	0	0					4	92	13,245	0	0	4	96	13,503	0	0	4	98
RCCO	12,416	1	0					3	90	12,940	1	0	3	94	13,192	1	0	3	95
LCCO	12,416	1	0					3	90	12,940	1	0	3	94	13,192	1	0	3	95
P6	165W	40	1250	AFR	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
				T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135
				T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135				

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P7	184W	40	1400	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				LCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P8	216W	60	1100	T2M	26,587	3	0	5	123	27,709	3	0	5	128	28,249	3	0	5	131
				T3M	26,895	3	0	5	125	28,030	3	0	5	130	28,576	3	0	5	132
				T3LG	24,025	3	0	3	111	25,038	3	0	3	116	25,526	3	0	3	118
				T4M	27,296	3	0	5	127	28,448	3	0	5	132	29,002	3	0	5	134
				T4LG	24,826	3	0	3	115	25,873	3	0	3	120	26,378	3	0	3	122
				TFTM	27,485	3	0	5	127	28,645	3	0	5	133	29,203	3	0	5	135
				T5M	28,084	5	0	4	130	29,269	5	0	4	136	29,839	5	0	4	138
				T5W	28,539	5	0	4	132	29,743	5	0	4	138	30,323	5	0	4	141
				T5LG	28,165	4	0	2	131	29,354	4	0	2	136	29,926	4	0	2	139
				BLC3	19,563	0	0	4	91	20,388	0	0	4	94	20,786	0	0	4	96
				BLC4	20,205	0	0	5	94	21,057	0	0	5	98	21,468	0	0	5	99
				RCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				LCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				AFR	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P9	277W	60	1400	T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
				T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134

Performance Data

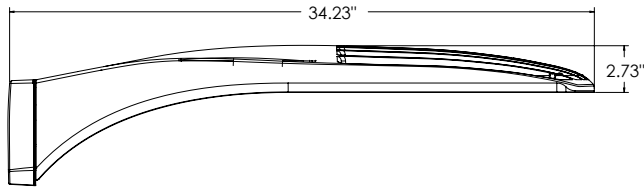
Lumen Output

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

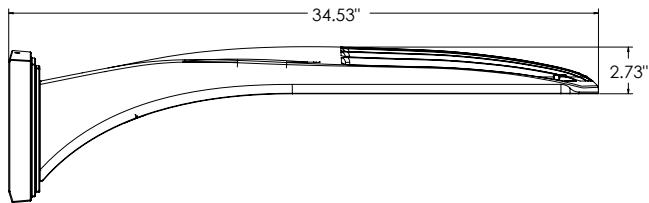
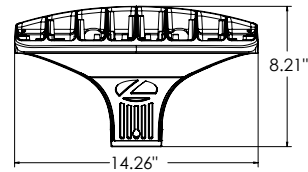
Rotated Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P10	101W	60	530	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159				
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147				
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149				
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133				
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151				
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138				
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152				
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156				
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158				
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156				
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108				
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112				
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109				
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109				
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159				
				P11	135W	60	700	T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
								T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
								T3M	18,211	4	0	4	135	18,980	4	0	4	141	19,350	4	0	4	143
T3LG	16,270	3	0					3	121	16,957	3	0	3	126	17,287	4	0	4	128				
T4M	18,483	4	0					4	137	19,263	5	0	5	143	19,638	5	0	5	146				
T4LG	16,810	3	0					3	125	17,519	3	0	3	130	17,861	3	0	3	132				
TFTM	18,614	4	0					4	138	19,399	4	0	4	144	19,777	5	0	5	147				
T5M	19,017	5	0					3	141	19,819	5	0	3	147	20,205	5	0	3	150				
T5W	19,325	5	0					3	143	20,140	5	0	3	149	20,533	5	0	3	152				
T5LG	19,072	4	0					2	141	19,876	4	0	2	147	20,264	4	0	2	150				
BLC3	13,247	4	0					4	98	13,806	4	0	4	102	14,075	4	0	4	104				
BLC4	13,682	4	0					4	101	14,259	4	0	4	106	14,537	4	0	4	108				
RCCO	13,367	1	0					3	99	13,931	1	0	3	103	14,203	1	0	3	105				
LCCO	13,367	1	0					3	99	13,931	1	0	3	103	14,203	1	0	3	105				
AFR	19,437	4	0					4	144	20,257	4	0	4	150	20,651	4	0	4	153				
P12	206W	60	1050					T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
								T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
								T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119				
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135				
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123				
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136				
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139				
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141				
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139				
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97				
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100				
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97				
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97				
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142				
				P13	276W	60	1400	T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
								T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
								T3M	32,265	5	0	5	117	33,626	5	0	5	122	34,282	5	0	5	124
T3LG	28,826	4	0					4	105	30,042	4	0	4	109	30,628	4	0	4	111				
T4M	32,746	5	0					5	119	34,128	5	0	5	124	34,793	5	0	5	126				
T4LG	29,782	4	0					4	108	31,039	4	0	4	113	31,644	5	0	4	115				
TFTM	32,978	5	0					5	120	34,369	5	0	5	125	35,039	5	0	5	127				
T5M	33,692	5	0					4	122	35,113	5	0	4	127	35,797	5	0	4	130				
T5W	34,238	5	0					4	124	35,682	5	0	4	129	36,378	5	0	4	132				
T5LG	33,789	5	0					3	122	35,215	5	0	3	128	35,901	5	0	3	130				
BLC3	23,471	5	0					5	85	24,461	5	0	5	89	24,937	5	0	5	90				
BLC4	24,240	5	0					5	88	25,262	5	0	5	92	25,755	5	0	5	93				
RCCO	23,683	1	0					4	86	24,682	1	0	4	89	25,163	1	0	4	91				
LCCO	23,683	1	0					4	86	24,682	1	0	4	89	25,163	1	0	4	91				
AFR	34,436	5	0					5	125	35,889	5	0	5	130	36,588	5	0	5	133				



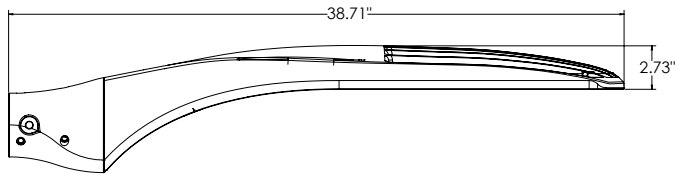
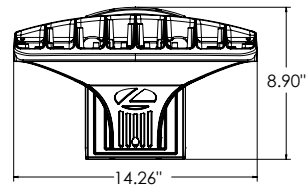
Dimensions



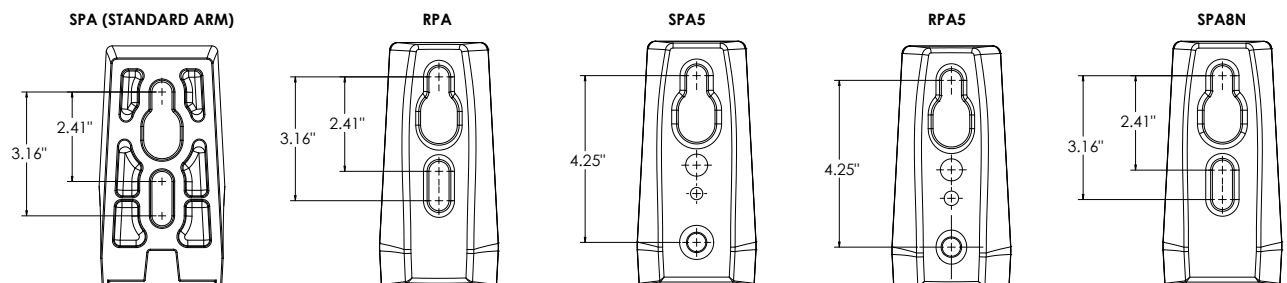
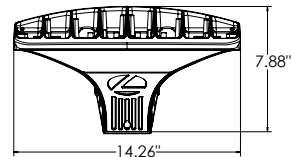
DSX1 with RPA, RPA5, SPA5, SPA8N mount
Weight: 36 lbs



DSX1 with WBA mount
Weight: 38 lbs



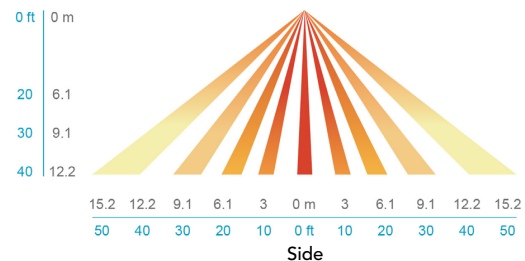
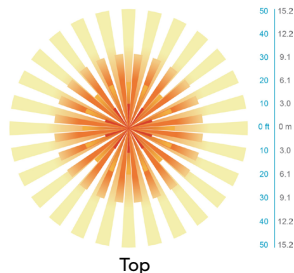
DSX1 with MA mount
Weight: 39 lbs



nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

Coastal Construction (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 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 configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX1 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 and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once 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 mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

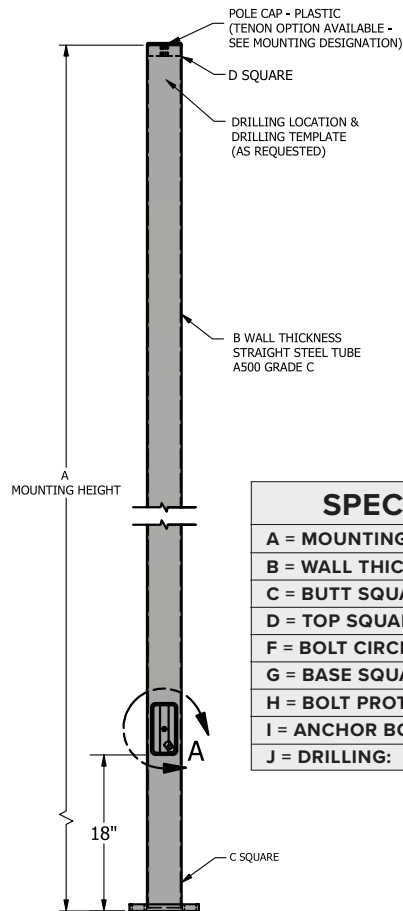
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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

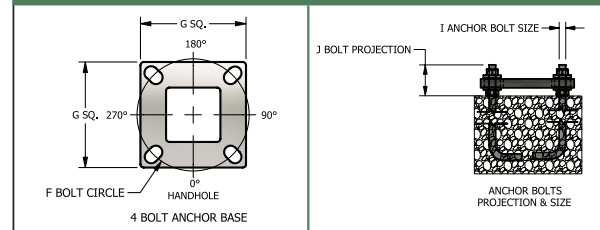
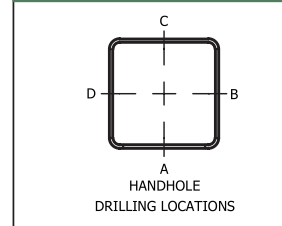
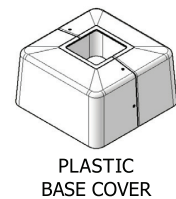
**UTILITY METALS**

A DIVISION OF FABRICATED METALS LLC.

JOB NAME		PART NO.	
DESCRIPTION:		DRAWING NO.	REV
DRAWN BY:	APPROVED:	ECN:	SCALE:
		DATE:	

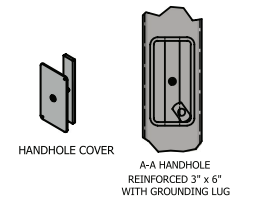
**SPECIFICATIONS**

A = MOUNTING HEIGHT:
B = WALL THICKNESS: 11 GA.
C = BUTT SQUARE: 4"
D = TOP SQUARE: 4"
F = BOLT CIRCLE RANGE: 8" - 9"
G = BASE SQUARE: 8"
H = BOLT PROTECTION: 3.12"
I = ANCHOR BOLT SIZE: 3/4" X 20" X 3"
J = DRILLING:

ANCHORAGE**FIXTURE****BASE**PLASTIC
BASE COVER

DM19AS = Drill mounting 1 at 90

STD FINISH = Specify

HANDHOLE**2013 AASHTO MAXIMUM EPA RATINGS WITH 3 SEC. WIND GUST****STEEL SQUARE STRAIGHT POLE SSS 4 11 SERIES**

PART NUMBER	80 MPH SQ FT	90 MPH SQ FT	100 MPH SQ FT	110 MPH SQ FT	120 MPH SQ FT	130 MPH SQ FT	140 MPH SQ FT
SSS 4 11 10	39.47	30.68	24.40	19.75	16.22	13.46	9.52
SSS 4 11 12	31.97	24.66	19.43	15.56	12.62	10.32	7.04
SSS 4 11 14	26.38	20.18	15.71	12.40	9.89	7.93	5.12
SSS 4 11 15	23.98	18.30	14.14	11.06	8.72	6.90	4.29
SSS 4 11 16	22.08	16.64	12.75	9.88	7.69	5.98	3.54
SSS 4 11 18	16.28	13.79	10.35	7.81	5.87	4.37	2.21
SSS 4 11 20	14.37	10.40	7.56	5.46	3.86	2.62	0.83
SSS 4 11 22	12.02	8.44	5.88	3.98	2.54	1.42	0.00
SSS 4 11 25	9.04	5.52	3.43	1.89	0.72	0.00	0.00



Job Name:
Brooklife Church - Site

Catalog Number:
DSX1 LED P3 XXK XXCRI T5M
MVOLT SPA STD FINISH
Notes:

Type:

OA5

ELL25-135945



D-Series Size 1 LED Area Luminaire



d-series

Specifications

EPA: 0.69 ft²
(0.06 m²)

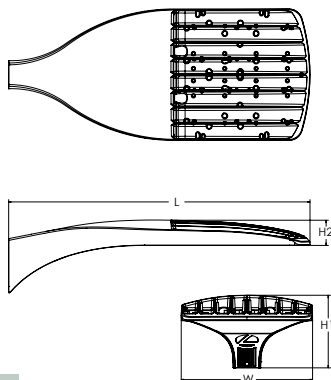
Length: 32.71"
(83.1 cm)

Width: 14.26"
(36.2 cm)

Height H1: 7.88"
(20.0 cm)

Height H2: 2.73"
(6.9 cm)

Weight: 34 lbs
(15.4 kg)



ds Design Select options indicated by this color background.

Catalog Number

Notes

Type

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

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.

*See ordering tree for details

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED	XXK = Specify	XXCRI = Specify				
Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution	Voltage	Mounting
DSX1 LED	Forward optics P1 P6 P2 P7 P3 P8 P4 P9 P5 Rotated optics P10 ¹ P12 ¹ P11 ¹ P13 ¹	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare ³ T4M Type IV medium T4LG Type IV low glare ³ TFTM Forward throw medium TSM Type V medium TSLG Type V low glare TSW Type V wide BLC3 Type III backlight control ³ BLC4 Type IV backlight control ³ LCCO Left corner cutoff ³ RCCO Right corner cutoff ³	MVOLT (120V-277V) ⁴ HVOLT (347V-480V) ^{5,6} XVOLT (277V - 480V) ^{7,8} 120 ^{16,26} 208 ^{16,26} 240 ^{16,26} 277 ^{16,26} 347 ^{16,26} 480 ^{16,26}	Shipped included SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPA5 Square pole mounting #5 drilling ⁹ RPA5 Round pole mounting #5 drilling ⁹ SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket ¹⁰ MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options	Other options	STD FINISH = Specify
Shipped installed NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{11,12,20,21} PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{13,20,21} PER NEMA twist-lock receptacle only (controls ordered separate) ¹⁴ PERS Five-pin receptacle only (controls ordered separate) ^{14,21}	PER7 Seven-pin receptacle only (controls ordered separate) ^{14,21} FAO Field adjustable output ^{15,21} BL30 Bi-level switched dimming, 30% ^{16,21} BL50 Bi-level switched dimming, 50% ^{16,21} DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷ DS Dual switching ^{18,19,21} SPD20KV 20KV surge protection HS Houseside shield (black finish standard) ²² L90 Left rotated optics ¹ R90 Right rotated optics ¹ CCE Coastal Construction ²³ HA 50°C ambient operation ²⁴ BAA Buy America(n) Act and/or Build America Buy America Qualified SF Single fuse (120, 277, 347V) ²⁶ DF Double fuse (208, 240, 480V) ²⁶ Shipped separately EGSR External Glare Shield (reversible, field install required, matches housing finish) BSDB Bird Spikes (field install required)	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DBBTD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



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DSX1-LED
Rev. 01/28/25
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Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁵
DSHORT SBK	Shorting cap ²⁵
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPAS (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXIEGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

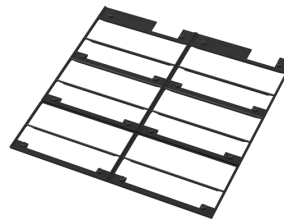
NOTES

- Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- XVOLT not available in packages P1 or P10. XVOLT not available with fusing (SF or DF).
- SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
- WBA cannot be combined with Type S distributions plus photocell (PER).
- NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this [link](#).
- NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.
- PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOLT.
- PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
- BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120 or 277V.
- DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
- DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
- DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
- Reference Motion Sensor Default Settings table on page 4 to see functionality.
- Reference Controls Options table on page 4.
- HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



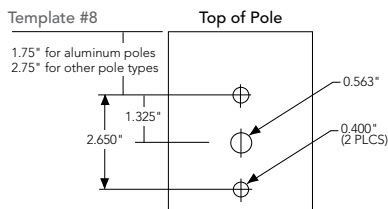
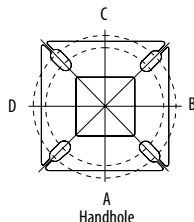
External Glare Shield (EGSR)



House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter

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

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

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

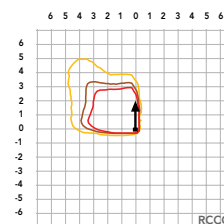
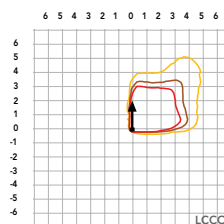
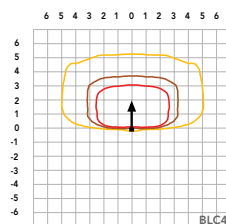
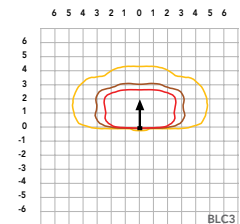
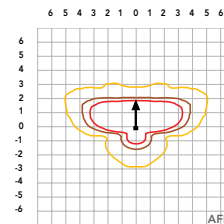
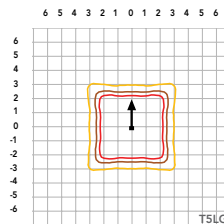
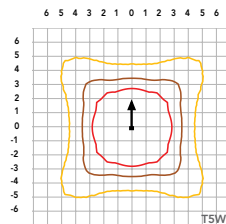
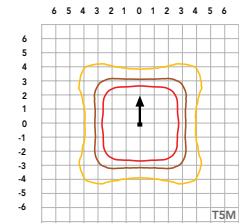
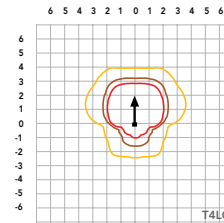
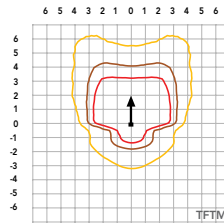
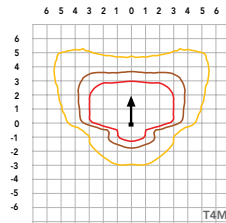
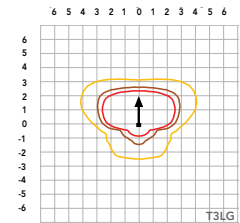
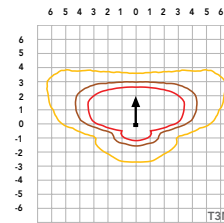
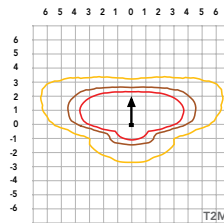
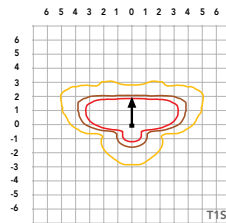
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09



Photometric Diagrams

 To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [homepage](https://www.lithonia.com).

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

LEGEND
 0.1 fc
 0.5 fc
 1.0 fc


Performance Data

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.04
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

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	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)					
					120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Edypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V



Job Name:
Brooklife Church - Site

Catalog Number:

DSX1 LED P3 XXK XXCRI T5M
MVOLT SPA STD FINISH

Notes:

Type:

OA5

ELL25-135945

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
				T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	145
P2	68W	30	700	T3M	9,368	2	0	3	138	9,763	2	0	3	144	9,953	2	0	3	147
				T3LG	8,368	1	0	2	123	8,721	1	0	2	129	8,891	1	0	2	131
				T4M	9,507	2	0	3	140	9,909	2	0	3	146	10,102	2	0	3	149
				T4LG	8,647	1	0	2	128	9,012	1	0	2	133	9,187	1	0	2	136
				TFTM	9,573	2	0	3	141	9,977	2	0	3	147	10,172	2	0	3	150
				T5M	9,782	4	0	2	144	10,195	4	0	2	150	10,393	4	0	2	153
				T5W	9,940	4	0	2	147	10,360	4	0	2	153	10,562	4	0	2	156
				T5LG	9,810	3	0	1	145	10,224	3	0	1	151	10,423	3	0	1	154
				BLC3	6,814	0	0	2	101	7,101	0	0	2	105	7,240	0	0	2	107
				BLC4	7,038	0	0	3	104	7,334	0	0	3	108	7,477	0	0	3	110
				RCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				LCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				AFR	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
				T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147
				T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123
P3	102W	30	1050	T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				P5	138W	30	1400	AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442
T1S	18,052	2	0					3	131	18,814	2	0	3	136	19,180	2	0	3	139
T2M	16,723	3	0					4	121	17,428	3	0	4	126	17,768	3	0	4	129
T3M	16,917	3	0					4	122	17,630	3	0	4	128	17,974	3	0	4	130
T3LG	15,111	2	0					2	109	15,749	2	0	2	114	16,055	2	0	2	116
T4M	17,169	3	0					5	124	17,893	3	0	5	130	18,242	3	0	5	132
T4LG	15,615	2	0					2	113	16,274	2	0	2	118	16,591	2	0	2	120
TFTM	17,288	2	0					4	125	18,017	2	0	5	130	18,368	3	0	5	133
T5M	17,664	5	0					3	128	18,410	5	0	3	133	18,768	5	0	3	136
T5W	17,951	5	0					3	130	18,708	5	0	3	135	19,073	5	0	3	138
T5LG	17,716	4	0					2	128	18,463	4	0	2	134	18,823	4	0	2	136
BLC3	12,305	0	0					3	89	12,824	0	0	3	93	13,074	0	0	3	95
BLC4	12,709	0	0					4	92	13,245	0	0	4	96	13,503	0	0	4	98
RCCO	12,416	1	0					3	90	12,940	1	0	3	94	13,192	1	0	3	95
LCCO	12,416	1	0					3	90	12,940	1	0	3	94	13,192	1	0	3	95
P6	165W	40	1250	AFR	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
				T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135
				T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135				

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P7	184W	40	1400	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				LCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P8	216W	60	1100	T2M	26,587	3	0	5	123	27,709	3	0	5	128	28,249	3	0	5	131
				T3M	26,895	3	0	5	125	28,030	3	0	5	130	28,576	3	0	5	132
				T3LG	24,025	3	0	3	111	25,038	3	0	3	116	25,526	3	0	3	118
				T4M	27,296	3	0	5	127	28,448	3	0	5	132	29,002	3	0	5	134
				T4LG	24,826	3	0	3	115	25,873	3	0	3	120	26,378	3	0	3	122
				TFTM	27,485	3	0	5	127	28,645	3	0	5	133	29,203	3	0	5	135
				T5M	28,084	5	0	4	130	29,269	5	0	4	136	29,839	5	0	4	138
				T5W	28,539	5	0	4	132	29,743	5	0	4	138	30,323	5	0	4	141
				T5LG	28,165	4	0	2	131	29,354	4	0	2	136	29,926	4	0	2	139
				BLC3	19,563	0	0	4	91	20,388	0	0	4	94	20,786	0	0	4	96
				BLC4	20,205	0	0	5	94	21,057	0	0	5	98	21,468	0	0	5	99
				RCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				LCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				AFR	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P9	277W	60	1400	T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
				T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134

Performance Data

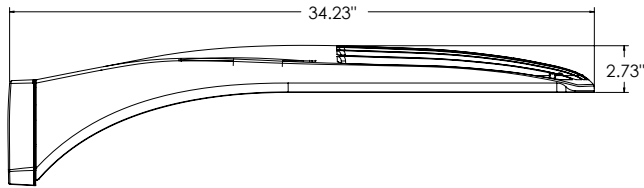
Lumen Output

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

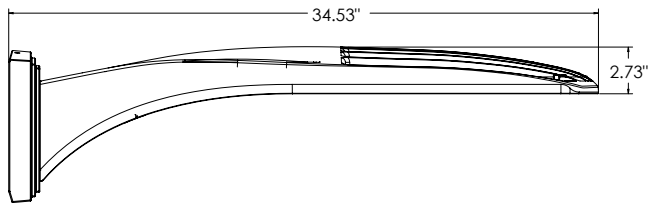
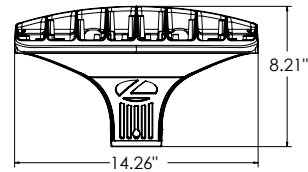
Rotated Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P10	101W	60	530	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159				
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147				
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149				
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133				
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151				
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138				
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152				
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156				
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158				
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156				
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108				
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112				
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109				
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109				
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159				
				P11	135W	60	700	T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
								T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
								T3M	18,211	4	0	4	135	18,980	4	0	4	141	19,350	4	0	4	143
T3LG	16,270	3	0					3	121	16,957	3	0	3	126	17,287	4	0	4	128				
T4M	18,483	4	0					4	137	19,263	5	0	5	143	19,638	5	0	5	146				
T4LG	16,810	3	0					3	125	17,519	3	0	3	130	17,861	3	0	3	132				
TFTM	18,614	4	0					4	138	19,399	4	0	4	144	19,777	5	0	5	147				
T5M	19,017	5	0					3	141	19,819	5	0	3	147	20,205	5	0	3	150				
T5W	19,325	5	0					3	143	20,140	5	0	3	149	20,533	5	0	3	152				
T5LG	19,072	4	0					2	141	19,876	4	0	2	147	20,264	4	0	2	150				
BLC3	13,247	4	0					4	98	13,806	4	0	4	102	14,075	4	0	4	104				
BLC4	13,682	4	0					4	101	14,259	4	0	4	106	14,537	4	0	4	108				
RCCO	13,367	1	0					3	99	13,931	1	0	3	103	14,203	1	0	3	105				
LCCO	13,367	1	0					3	99	13,931	1	0	3	103	14,203	1	0	3	105				
AFR	19,437	4	0					4	144	20,257	4	0	4	150	20,651	4	0	4	153				
P12	206W	60	1050					T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
								T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
								T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119				
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135				
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123				
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136				
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139				
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141				
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139				
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97				
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100				
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97				
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97				
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142				
				P13	276W	60	1400	T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
								T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
								T3M	32,265	5	0	5	117	33,626	5	0	5	122	34,282	5	0	5	124
T3LG	28,826	4	0					4	105	30,042	4	0	4	109	30,628	4	0	4	111				
T4M	32,746	5	0					5	119	34,128	5	0	5	124	34,793	5	0	5	126				
T4LG	29,782	4	0					4	108	31,039	4	0	4	113	31,644	5	0	4	115				
TFTM	32,978	5	0					5	120	34,369	5	0	5	125	35,039	5	0	5	127				
T5M	33,692	5	0					4	122	35,113	5	0	4	127	35,797	5	0	4	130				
T5W	34,238	5	0					4	124	35,682	5	0	4	129	36,378	5	0	4	132				
T5LG	33,789	5	0					3	122	35,215	5	0	3	128	35,901	5	0	3	130				
BLC3	23,471	5	0					5	85	24,461	5	0	5	89	24,937	5	0	5	90				
BLC4	24,240	5	0					5	88	25,262	5	0	5	92	25,755	5	0	5	93				
RCCO	23,683	1	0					4	86	24,682	1	0	4	89	25,163	1	0	4	91				
LCCO	23,683	1	0					4	86	24,682	1	0	4	89	25,163	1	0	4	91				
AFR	34,436	5	0					5	125	35,889	5	0	5	130	36,588	5	0	5	133				



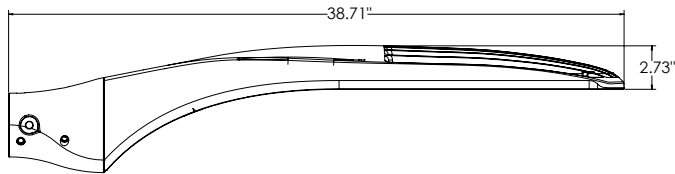
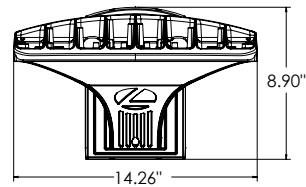
Dimensions



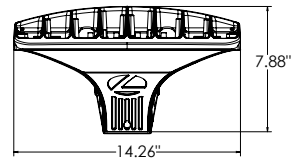
DSX1 with RPA, RPA5, SPA5, SPA8N mount
Weight: 36 lbs



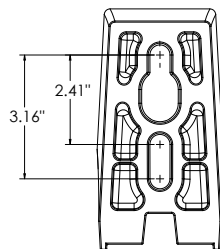
DSX1 with WBA mount
Weight: 38 lbs



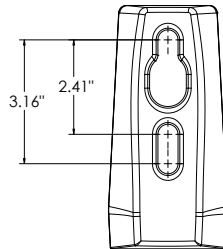
DSX1 with MA mount
Weight: 39 lbs



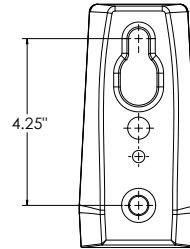
SPA (STANDARD ARM)



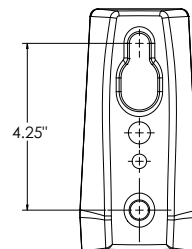
RPA



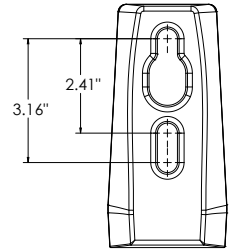
SPA5



RPA5



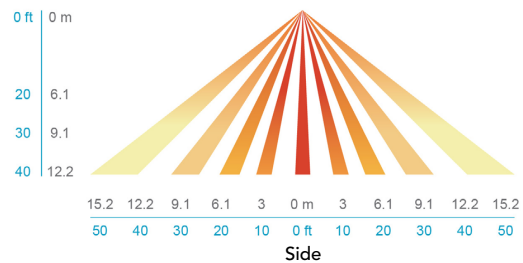
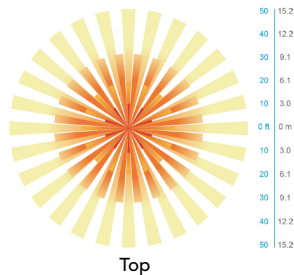
SPA8N



nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

Coastal Construction (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 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 configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX1 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 and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once 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 mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

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

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



Enterprise Light
Manufacturers' Represent

Job Name:
Brooklife Church - Site

Catalog Number:

SSS4-11-18-DM19AS-STD FINISH

Notes:

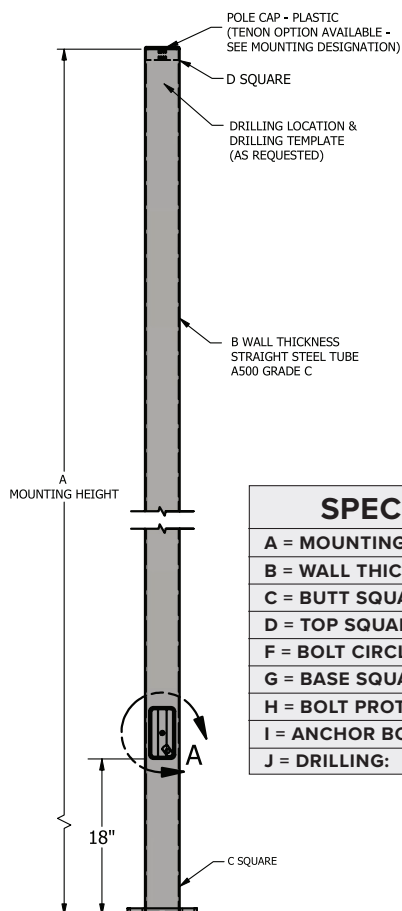
Type:**OA5**

ELL25-135945

UTILITY METALS

A DIVISION OF FABRICATED METALS LLC.

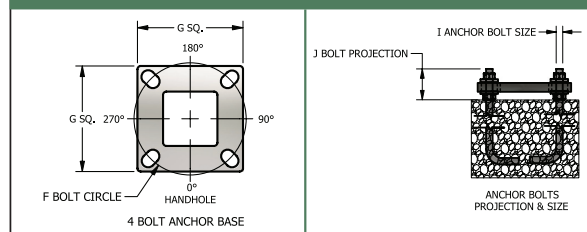
JOB NAME		PART NO.	
DESCRIPTION:		DRAWING NO.	REV
DRAWN BY:	APPROVED:	ECN:	SCALE:
		DATE:	



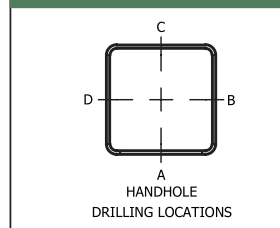
SPECIFICATIONS

A = MOUNTING HEIGHT:
B = WALL THICKNESS: 11 GA.
C = BUTT SQUARE: 4"
D = TOP SQUARE: 4"
F = BOLT CIRCLE RANGE: 8" - 9"
G = BASE SQUARE: 8"
H = BOLT PROTECTION: 3.12"
I = ANCHOR BOLT SIZE: 3/4" X 20" X 3"
J = DRILLING:

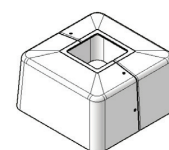
ANCHORAGE



FIXTURE



BASE

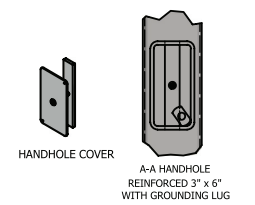


PLASTIC
BASE COVER

DM19AS = Drill mounting 1 at 90

STD FINISH = Specify

HANDHOLE



2013 AASHTO MAXIMUM EPA RATINGS WITH 3 SEC. WIND GUST

STEEL SQUARE STRAIGHT POLE SSS 4 11 SERIES

PART NUMBER	80 MPH SQ FT	90 MPH SQ FT	100 MPH SQ FT	110 MPH SQ FT	120 MPH SQ FT	130 MPH SQ FT	140 MPH SQ FT
SSS 4 11 10	39.47	30.68	24.40	19.75	16.22	13.46	9.52
SSS 4 11 12	31.97	24.66	19.43	15.56	12.62	10.32	7.04
SSS 4 11 14	26.38	20.18	15.71	12.40	9.89	7.93	5.12
SSS 4 11 15	23.98	18.30	14.14	11.06	8.72	6.90	4.29
SSS 4 11 16	22.08	16.64	12.75	9.88	7.69	5.98	3.54
SSS 4 11 18	16.28	13.79	10.35	7.81	5.87	4.37	2.21
SSS 4 11 20	14.37	10.40	7.56	5.46	3.86	2.62	0.83
SSS 4 11 22	12.02	8.44	5.88	3.98	2.54	1.42	0.00
SSS 4 11 25	9.04	5.52	3.43	1.89	0.72	0.00	0.00



Job Name:
Brooklife Church - Site

Catalog Number:
DSX1 LED P3 XXK XXCRI TFTM
MVOLT SPA STD FINISH
Notes:

Type:
OAFT

ELL25-135945



D-Series Size 1 LED Area Luminaire



d-series

Specifications

EPA: 0.69 ft²
(0.06 m²)

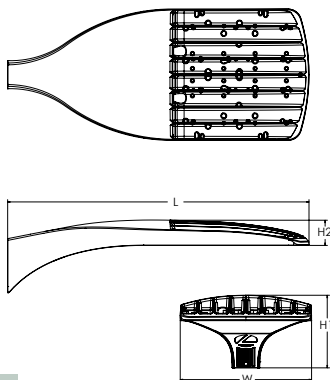
Length: 32.71"
(83.1 cm)

Width: 14.26"
(36.2 cm)

Height H1: 7.88"
(20.0 cm)

Height H2: 2.73"
(6.9 cm)

Weight: 34 lbs
(15.4 kg)



ds Design Select options indicated by this color background.

Catalog Number

Notes

Type

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

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.

*See ordering tree for details

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED		XXK = Specify	XXCRI = Specify					
Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution			Voltage	Mounting
DSX1 LED	Forward optics	(this section 70CRI only)		AFR Automotive front row	TSM Type V medium	MVOLT (120V-277V) ⁴	Shipped included	
	P1 P6	30K 3000K	70CRI	T1S Type I short	TSLG Type V low glare	HVOLT (347V-480V) ^{5,6}	SPA Square pole mounting (#8 drilling)	
	P2 P7	40K 4000K	70CRI	T2M Type II medium	TSW Type V wide	XVOLT (277V - 480V) ^{7,8}	RPA Round pole mounting (#8 drilling)	
	P3 P8	50K 5000K	70CRI	T3M Type III medium	BLC3 Type III backlight control ³	120 ^{16, 26}	SPA5 Square pole mounting #5 drilling ⁹	
	P4 P9	(this section 80CRI only, extended lead times apply)		T3LG Type III low glare ³	BLC4 Type IV backlight control ³	208 ^{16, 26}	RPAS Round pole mounting #5 drilling ⁹	
	P5			T4M Type IV medium		240 ^{16, 26}	SPA8N Square narrow pole mounting #8 drilling	
	Rotated optics	27K 2700K	80CRI	T4LG Type IV low glare ³	LCCO Left corner cutoff ³	277 ^{16, 26}	WBA Wall bracket ¹⁰	
	P10 ¹ P12 ¹	30K 3000K	80CRI	TFTM Forward throw medium	RCCO Right corner cutoff ³	347 ^{16, 26}	MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)	
	P11 ¹ P13 ¹	35K 3500K	80CRI			480 ^{16, 26}		
		40K 4000K	80CRI					
		50K 5000K	80CRI					

Control options	Other options	STD FINISH = Specify
Shipped installed	Shipped installed	Finish (required)
NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{11,12,20,21}	SPD20KV 20KV surge protection	DDBXD Dark Bronze
PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. ^{13,20,21}	HS Houseside shield (black finish standard) ²²	DBLXD Black
PER NEMA twist-lock receptacle only (controls ordered separately) ¹⁴	L90 Left rotated optics ¹	DNAXD Natural Aluminum
PERS Five-pin receptacle only (controls ordered separately) ^{14,21}	R90 Right rotated optics ¹	DWHXD White
PER7 Seven-pin receptacle only (controls ordered separate) ^{14,21}	CCE Coastal Construction ²³	DBTDXD Textured dark bronze
FAO Field adjustable output ^{15,21}	HA 50°C ambient operation ²⁴	DBLBDX Textured black
BL30 Bi-level switched dimming, 30% ^{16,21}	BAA Buy America(n) Act and/or Build America Buy America Qualified	DNATXD Textured natural aluminum
BL50 Bi-level switched dimming, 50% ^{16,21}	SF Single fuse (120, 277, 347V) ²⁶	DWHGXD Textured white
DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ¹⁷	DF Double fuse (208, 240, 480V) ²⁶	
DS Dual switching ^{18,19,21}	Shipped separately	
	EGSR External Glare Shield (reversible, field install required, matches housing finish)	
	BSDB Bird Spikes (field install required)	



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DSX1-LED
Rev. 01/28/25
Page 1 of 10



Job Name:
Brooklife Church - Site

Catalog Number:
DSX1 LED P3 XXK XXCRI TFTM
MVOLT SPA STD FINISH
Notes:

Type:

OAF

ELL25-135945

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁵
DSHORT SBK	Shorting cap ²⁵
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPAS (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXIEGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

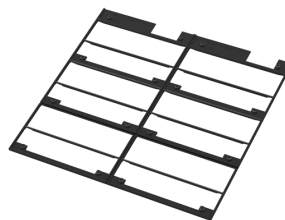
NOTES

- Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- XVOLT not available in packages P1 or P10. XVOLT not available with fusing (SF or DF).
- SPA5 and RPAS for use with #5 drilling only (Not for use with #8 drilling).
- WBA cannot be combined with Type S distributions plus photocell (PER).
- NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this [link](#).
- NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.
- PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOLT.
- PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
- BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120 or 277V.
- DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
- DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
- DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
- Reference Motion Sensor Default Settings table on page 4 to see functionality.
- Reference Controls Options table on page 4.
- HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories



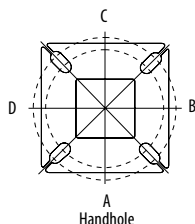
External Glare Shield (EGSR)



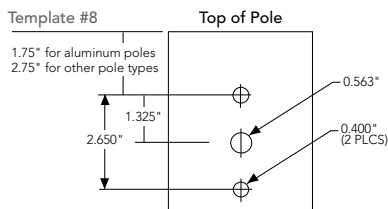
House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION



Handhole



Tenon Mounting Slipfitter

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

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPAS	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

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

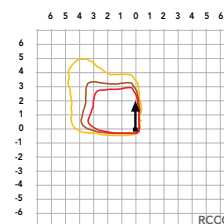
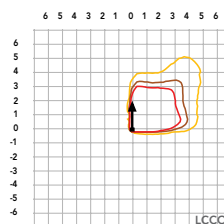
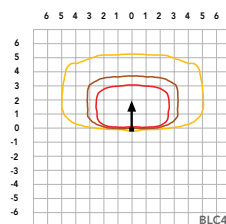
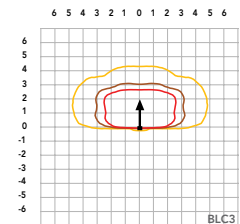
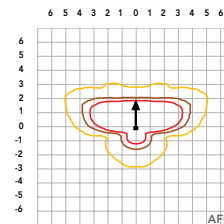
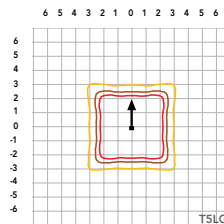
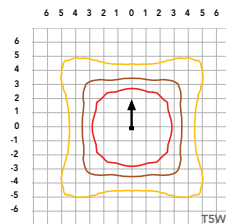
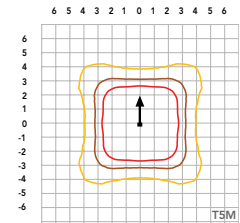
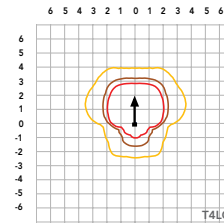
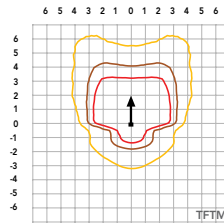
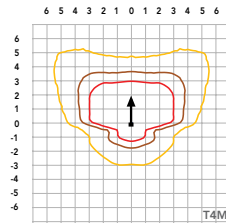
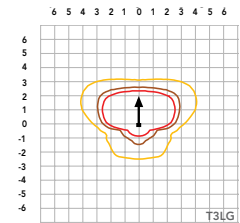
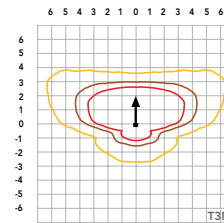
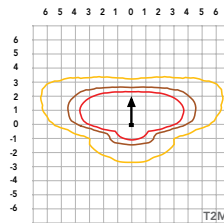
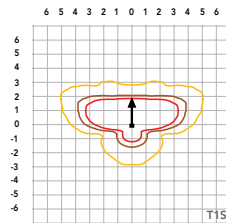
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPAS	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09



Photometric Diagrams

 To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [homepage](https://www.lithonia.com).

Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

LEGEND
 0.1 fc
 0.5 fc
 1.0 fc


Performance Data

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.04
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

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	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)					
					120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Edypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V



Job Name:
Brooklife Church - Site

Catalog Number:

DSX1 LED P3 XXK XXCRI TFTM
MVOLT SPA STD FINISH

Notes:

Type:**OAFT**

ELL25-135945

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
				T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	145
P2	68W	30	700	T3M	9,368	2	0	3	138	9,763	2	0	3	144	9,953	2	0	3	147
				T3LG	8,368	1	0	2	123	8,721	1	0	2	129	8,891	1	0	2	131
				T4M	9,507	2	0	3	140	9,909	2	0	3	146	10,102	2	0	3	149
				T4LG	8,647	1	0	2	128	9,012	1	0	2	133	9,187	1	0	2	136
				TFTM	9,573	2	0	3	141	9,977	2	0	3	147	10,172	2	0	3	150
				T5M	9,782	4	0	2	144	10,195	4	0	2	150	10,393	4	0	2	153
				T5W	9,940	4	0	2	147	10,360	4	0	2	153	10,562	4	0	2	156
				T5LG	9,810	3	0	1	145	10,224	3	0	1	151	10,423	3	0	1	154
				BLC3	6,814	0	0	2	101	7,101	0	0	2	105	7,240	0	0	2	107
				BLC4	7,038	0	0	3	104	7,334	0	0	3	108	7,477	0	0	3	110
				RCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				LCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				AFR	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
				T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147
				T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123
P3	102W	30	1050	T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141				
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130				
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132				
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118				
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134				
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122				
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135				
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138				
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140				
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138				
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96				
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99				
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97				
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97				
				AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141				
				P5	138W	30	1400	T1S	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
								T2M	16,723	3	0	4	121	17,428	3	0	4	126	17,768	3	0	4	129
T3M	16,917	3	0					4	122	17,630	3	0	4	128	17,974	3	0	4	130				
T3LG	15,111	2	0					2	109	15,749	2	0	2	114	16,055	2	0	2	116				
T4M	17,169	3	0					5	124	17,893	3	0	5	130	18,242	3	0	5	132				
T4LG	15,615	2	0					2	113	16,274	2	0	2	118	16,591	2	0	2	120				
TFTM	17,288	2	0					4	125	18,017	2	0	5	130	18,368	3	0	5	133				
T5M	17,664	5	0					3	128	18,410	5	0	3	133	18,768	5	0	3	136				
T5W	17,951	5	0					3	130	18,708	5	0	3	135	19,073	5	0	3	138				
T5LG	17,716	4	0					2	128	18,463	4	0	2	134	18,823	4	0	2	136				
BLC3	12,305	0	0					3	89	12,824	0	0	3	93	13,074	0	0	3	95				
BLC4	12,709	0	0					4	92	13,245	0	0	4	96	13,503	0	0	4	98				
RCCO	12,416	1	0					3	90	12,940	1	0	3	94	13,192	1	0	3	95				
LCCO	12,416	1	0					3	90	12,940	1	0	3	94	13,192	1	0	3	95				
AFR	18,052	2	0					3	131	18,814	2	0	3	136	19,180	2	0	3	139				
P6	165W	40	1250					T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135
								T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127				
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113				
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129				
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117				
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129				
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132				
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134				
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133				
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92				
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95				
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93				
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93				
				AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135				

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 configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P7	184W	40	1400	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				LCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P8	216W	60	1100	T2M	26,587	3	0	5	123	27,709	3	0	5	128	28,249	3	0	5	131
				T3M	26,895	3	0	5	125	28,030	3	0	5	130	28,576	3	0	5	132
				T3LG	24,025	3	0	3	111	25,038	3	0	3	116	25,526	3	0	3	118
				T4M	27,296	3	0	5	127	28,448	3	0	5	132	29,002	3	0	5	134
				T4LG	24,826	3	0	3	115	25,873	3	0	3	120	26,378	3	0	3	122
				TFTM	27,485	3	0	5	127	28,645	3	0	5	133	29,203	3	0	5	135
				T5M	28,084	5	0	4	130	29,269	5	0	4	136	29,839	5	0	4	138
				T5W	28,539	5	0	4	132	29,743	5	0	4	138	30,323	5	0	4	141
				T5LG	28,165	4	0	2	131	29,354	4	0	2	136	29,926	4	0	2	139
				BLC3	19,563	0	0	4	91	20,388	0	0	4	94	20,786	0	0	4	96
				BLC4	20,205	0	0	5	94	21,057	0	0	5	98	21,468	0	0	5	99
				RCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				LCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				AFR	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P9	277W	60	1400	T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
				T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134



Job Name:
Brooklife Church - Site

Catalog Number:

DSX1 LED P3 XXK XXCRI TFTM
MVOLT SPA STD FINISH

Notes:

Type:**OAFT**

ELL25-135945

Performance Data

Lumen Output

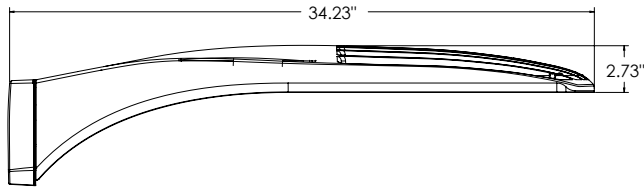
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Rotated Optics

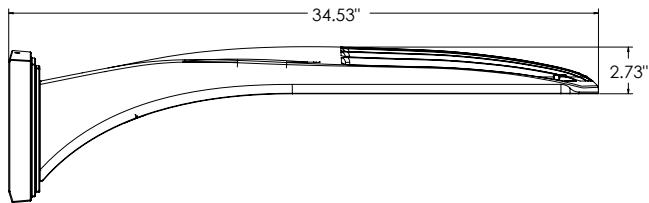
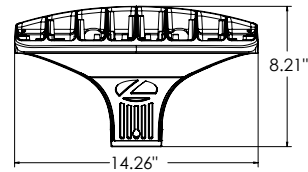
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	101W	60	530	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
				T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
P11	135W	60	700	T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
				T3M	18,211	4	0	4	135	18,980	4	0	4	141	19,350	4	0	4	143
				T3LG	16,270	3	0	3	121	16,957	3	0	3	126	17,287	4	0	4	128
				T4M	18,483	4	0	4	137	19,263	5	0	5	143	19,638	5	0	5	146
				T4LG	16,810	3	0	3	125	17,519	3	0	3	130	17,861	3	0	3	132
				TFTM	18,614	4	0	4	138	19,399	4	0	4	144	19,777	5	0	5	147
				T5M	19,017	5	0	3	141	19,819	5	0	3	147	20,205	5	0	3	150
				T5W	19,325	5	0	3	143	20,140	5	0	3	149	20,533	5	0	3	152
				T5LG	19,072	4	0	2	141	19,876	4	0	2	147	20,264	4	0	2	150
				BLC3	13,247	4	0	4	98	13,806	4	0	4	102	14,075	4	0	4	104
				BLC4	13,682	4	0	4	101	14,259	4	0	4	106	14,537	4	0	4	108
				RCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				LCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				AFR	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
				T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
				T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
P12	206W	60	1050	T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
				T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
				T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
				T3M	32,265	5	0	5	117	33,626	5	0	5	122	34,282	5	0	5	124
P13	276W	60	1400	T3LG	28,826	4	0	4	105	30,042	4	0	4	109	30,628	4	0	4	111
				T4M	32,746	5	0	5	119	34,128	5	0	5	124	34,793	5	0	5	126
				T4LG	29,782	4	0	4	108	31,039	4	0	4	113	31,644	5	0	4	115
				TFTM	32,978	5	0	5	120	34,369	5	0	5	125	35,039	5	0	5	127
				T5M	33,692	5	0	4	122	35,113	5	0	4	127	35,797	5	0	4	130
				T5W	34,238	5	0	4	124	35,682	5	0	4	129	36,378	5	0	4	132
				T5LG	33,789	5	0	3	122	35,215	5	0	3	128	35,901	5	0	3	130
				BLC3	23,471	5	0	5	85	24,461	5	0	5	89	24,937	5	0	5	90
				BLC4	24,240	5	0	5	88	25,262	5	0	5	92	25,755	5	0	5	93
				RCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				LCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				AFR	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133



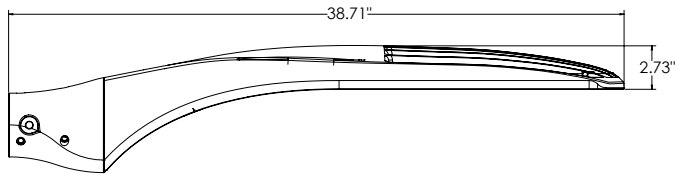
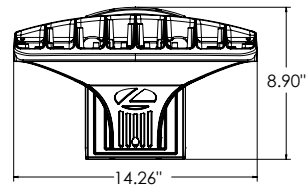
Dimensions



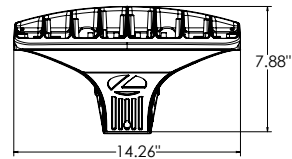
DSX1 with RPA, RPA5, SPA5, SPA8N mount
Weight: 36 lbs



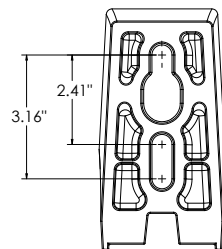
DSX1 with WBA mount
Weight: 38 lbs



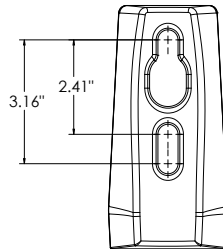
DSX1 with MA mount
Weight: 39 lbs



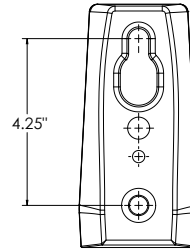
SPA (STANDARD ARM)



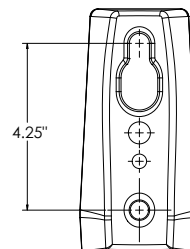
RPA



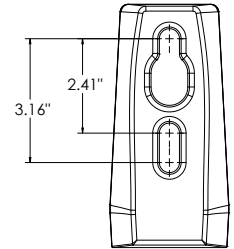
SPA5



RPA5



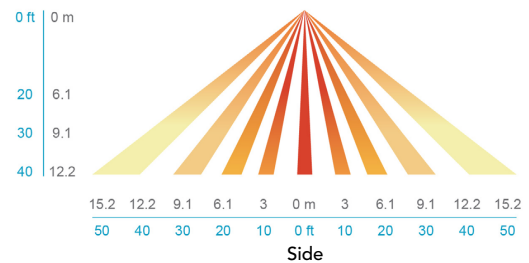
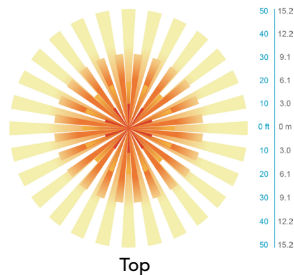
SPA8N



nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

Coastal Construction (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 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 configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX1 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 and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once 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 mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

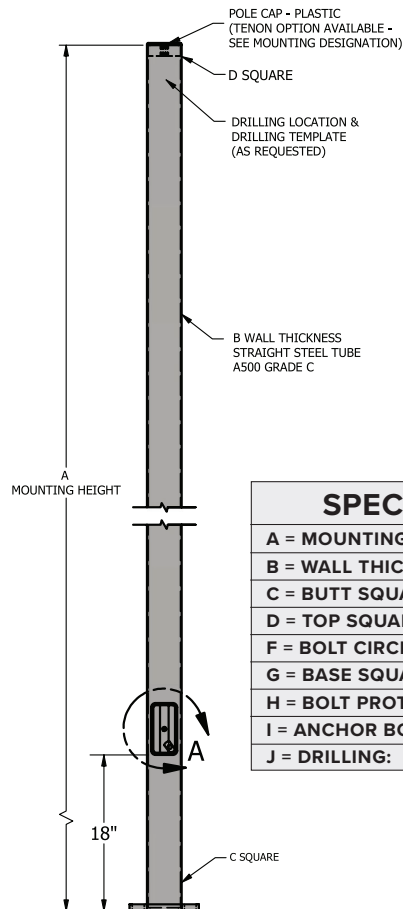
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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

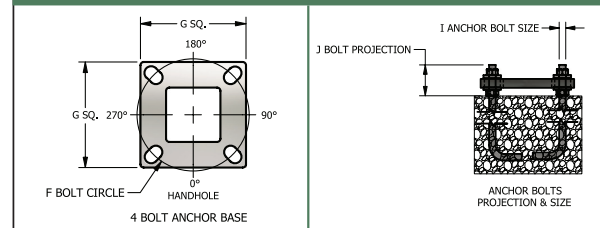
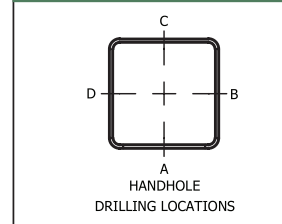
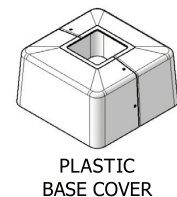

UTILITY METALS

A DIVISION OF FABRICATED METALS LLC.

JOB NAME		PART NO.	
DESCRIPTION:		DRAWING NO.	REV
DRAWN BY:	APPROVED:	ECN:	SCALE:
		DATE:	

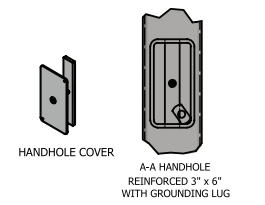
**SPECIFICATIONS**

A = MOUNTING HEIGHT:
B = WALL THICKNESS: 11 GA.
C = BUTT SQUARE: 4"
D = TOP SQUARE: 4"
F = BOLT CIRCLE RANGE: 8" - 9"
G = BASE SQUARE: 8"
H = BOLT PROTECTION: 3.12"
I = ANCHOR BOLT SIZE: 3/4" X 20" X 3"
J = DRILLING:

ANCHORAGE**FIXTURE****BASE**

DM19AS = Drill mounting 1 at 90

STD FINISH = Specify

HANDHOLE**2013 AASHTO MAXIMUM EPA RATINGS WITH 3 SEC. WIND GUST****STEEL SQUARE STRAIGHT POLE SSS 4 11 SERIES**

PART NUMBER	80 MPH SQ FT	90 MPH SQ FT	100 MPH SQ FT	110 MPH SQ FT	120 MPH SQ FT	130 MPH SQ FT	140 MPH SQ FT
SSS 4 11 10	39.47	30.68	24.40	19.75	16.22	13.46	9.52
SSS 4 11 12	31.97	24.66	19.43	15.56	12.62	10.32	7.04
SSS 4 11 14	26.38	20.18	15.71	12.40	9.89	7.93	5.12
SSS 4 11 15	23.98	18.30	14.14	11.06	8.72	6.90	4.29
SSS 4 11 16	22.08	16.64	12.75	9.88	7.69	5.98	3.54
SSS 4 11 18	16.28	13.79	10.35	7.81	5.87	4.37	2.21
SSS 4 11 20	14.37	10.40	7.56	5.46	3.86	2.62	0.83
SSS 4 11 22	12.02	8.44	5.88	3.98	2.54	1.42	0.00
SSS 4 11 25	9.04	5.52	3.43	1.89	0.72	0.00	0.00

PLAN COMMISSION STAFF REPORT

TO: Village of Mukwonago Plan Commission

FROM: Peter Gesch, P.E., Ruekert & Mielke, Inc.

REPORT DATE: March 4, 2025

MEETING DATE: March 11, 2025, 6:30 P.M.

SUBJECT: Brooklife Church Expansion–Site Plan & Architectural Review & Conditional Use

BASIC INFORMATION	
Project:	Brooklife Church Expansion
Applicant:	Brooklife Church, Inc.
Consulting Engineer:	Abacus Architects Inc.
Consulting Architect:	Abacus Architects Inc.
Request:	Site Plan & Architectural Review & Conditional Use
Staff Recommendation:	Approve with Conditions

PARCEL DATA/CHARACTERISTICS	
Tax Key:	MUKV2009978009
Acreage:	10.86 Acres
Current Use:	Religious Assembly
Proposed Use:	Religious Assembly
Reason for Request:	Expansion to Church Building
Land Use Classification:	Business
Zoning Classification:	B-2 – General Business District

Project Summary & Overview

Brooklife Church Inc. is looking to construct a building addition on the north side of the existing church building. This building addition includes a gymnasium, concession, coffee bar lounge and a gathering space room. In addition to the building expansion, there will be an expansion to the parking availability in the complex. On the south side of the property, a new parking lot will be proposed to accommodate the increased size of the building. The east side of the complex has a parking lot that will be re-designed and re-stripped to maximize efficiency. The zoning classification of the site will remain in the B-2 General Business District.

The applicant has requested a variance for the requirement of the Village's minimum parking stall dimension requirements. The explanation is included in the application documents.

~Mukwonago, Village of > 12-10234 > Staff Report-20250304-Brooklife Church Expansion-SPAR and CU~

The applicant is not required to provide additional post-construction storm water management beyond the existing storm water management pond on the far north end of the Brooklife Church property. Village staff have worked with the applicant to review the requirements for greenspace requirements and provide additional upstream pre-treatment of parking lot runoff to aide in the treatment of site storm water runoff. The applicant is installing an “Up-Flo” storm catch basin filter that will assist in filtering out total suspended solids from the reconfiguration of the site.

In addition to the site plan and architectural review, the modifications and expansion of the current use requires a re-application for a conditional use permit.

Conditional Use Request

Attached to this staff report is the justification questions for a Conditional Use Permit that have been answered by the applicant. The Planning Commission shall take these into consideration when making their decisions.

Conditional Use Process / Findings

The established review procedures are that the Plan Commission shall hold a public hearing and make a recommendation to the Village Board whom makes the final decision.

Following the close of the public hearing, the Plan Commission may recommend (1) approval, (2) approval with conditions, or (3) denial.

If approval is recommended, the Plan Commission can recommend conditions deemed necessary to protect public health, safety, and welfare. The Plan Commission, in passing on the matter, will need to make the following determinations consistent with Section 100-354 of Mukwonago’s Zoning Regulations:

1. The establishment, maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety or welfare of the Village.
2. The uses, values and enjoyment of other property in the surrounding neighborhood that are already permitted shall be, in no foreseeable manner, substantially impaired or diminished by the establishment, maintenance or operation of the conditional use.
3. The establishment, maintenance or operation of the conditional use is compatible with surrounding properties, whether in the same or different zoning districts. In making this determination, the Plan Commission and Village Board must determine whether the petitioner has demonstrated there are no adverse effects on surrounding properties or that potentially adverse effects have been eliminated or reduced to an acceptable level. Approaches that could be employed to mitigate potentially adverse effects will depend on the particular circumstances but may include:
 - a. Adjusting the location of the use, or parts thereof, on the subject property;
 - b. Limiting hours of operation;
 - c. Limiting the size or scope of the use, or parts thereof;
 - d. Controlling how the use is managed on an ongoing basis;
 - e. Providing additional landscaping;
 - f. Providing additional screening; and
 - g. Limiting operations conducted out-of-doors, if otherwise allowed
4. The establishment of the conditional use will not impede the normal and ordinary development and improvement of the surrounding property for uses permitted within the district and/or which are consistent with the standards in the Comprehensive Plan.

~Mukwonago, Village of > 12-10234 > Staff Report-20250304-Brooklife Church Expansion-SPAR and CU~

5. Adequate utilities, access roads, drainage and other necessary site improvements have been or are being made to accommodate the use.
6. Adequate measures have been taken or will be taken providing ingress and egress to minimize traffic congestion on public streets so as not to diminish the level of service of any intersection which is impacted by traffic arising from the conditional use.

In addition, the property owner / tenant has shown compliance with the requirements set forth in the Village's zoning regulations for specified use.

The Village Board will carefully review the recommendation of the Plan Commission and concurs with the Plan Commission's findings set forth above, provided the conditional use is operated pursuant to the conditions of approval set forth in this order.

These findings are incorporated into the draft conditional use order which is attached.

The Plan Commission shall approve a conditional use application if the terms and conditions of the zoning regulations are met. However, in the event the terms and conditions of the ordinance are not consented to and complied with by the applicant, the Commission may deny the application. In addition, the Commission may deny the application or place conditions on it if substantial evidence, as defined in §62.23(7) Wis. Stats. is presented. That evidence must demonstrate the inability of the applicant to comply with or meet the conditions of the zoning regulations or that the conditions to be applied by the Plan Commission are necessary to protect the public health, safety or welfare of the community based upon the presentation of substantial evidence. Potential motion for approval to Recommend to the Village Board approval of the project as a conditional use as set forth in the attached conditional use order as drafted, provided the Village Attorney approves the final form of the conditional use order.

Staff Review

Engineering:	Final Civil plan will need to be stamped by PE. Storm water is addressed per project summary above. Plan Commission should review parking stall dimension variance request.
Public Works	No comments at this time.
Utilities	No comments at this time.
Police	No comments at this time.
Fire	Detection and Suppression systems will need to be extended to the new building area. Applicant will need to submit calculations that the system can cover the demand for the suppression.
Building Inspection	Signage must comply with the Village's sign code. More comments may be forthcoming with submittal of more detailed site signage. Condition in resolution that signage will be reviewed at the time of sign permit application.
Planning	New landscaping is being provided to comply with the landscaping requirements for the zoning district. Adequate landscaping exists to the

~Mukwonago, Village of > 12-10234 > Staff Report-20250304-Brooklife Church Expansion-SPAR and CU~

north of the property. Lighting plan will need to be revised to demonstrate zero footcandles of light at all property lines.

Recommended Action

Conditional Use Permit

Staff recommends the Planning Commission recommend to the Village Board approval of a conditional use permit as set forth in the provided resolution.

To – Grant a Conditional Use Permit for a Religious Assembly facility with the following on-going conditions deemed necessary to protect the health, safety, and welfare:

1. Ongoing conditions of approval. The following conditions shall constitute an ongoing obligation:
 - a. Any modifications to the site, buildings, site improvements, shall require the conditional use application being updated.
2. The following conditions are also true and are consistent with Section 100-354 of Mukwonago's zoning regulations:
 - a. The establishment, maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety or welfare of the Village.
 - b. The uses, values and enjoyment of other property in the surrounding neighborhood that are already permitted shall be, in no foreseeable manner, substantially impaired or diminished by the establishment, maintenance or operation of the conditional use.
 - c. The establishment, maintenance or operation of the conditional use is compatible with surrounding properties, whether in the same or different zoning districts.
 - d. The establishment of the conditional use will not impede the normal and ordinary development and improvement of the surrounding property for uses permitted within the district and/or which are consistent with the standards in the Comprehensive Plan.
 - e. Adequate utilities, access roads, drainage and other necessary site improvements have been or are being made to accommodate the use.
 - a. Adequate measures have been taken or will be taken providing ingress and egress to minimize traffic congestion on public streets so as not to diminish the level of service of any intersection which is impacted by traffic arising from the conditional use.

Site Plan and Architectural Review

Staff Recommends the Planning Commission Approve a resolution for the Site Plan and Architectural Review, as set forth in the attached resolution with the included conditions.

Attachments

1. Application and Development Information
2. Plans and Site Drawings

Process Details: PZ25-0002Property Address: 857 S ROCHESTER ST UNIT 300 | Parcel: [MUKV2009978009](#)**Property Owner:** BROOKLIFE CHURCH INC**Summary Information**

> 18 Process Step(s) Found

> 0 Inspection(s) Found

This Site Plan was created from an application. [Click here to view the application.](#)**Amount Due**

Process - Site Plan	\$619.74
Total	Pay Now

Process Information

Filed As	Site Plan	Application Date	02/06/2025
Process Name	Site Plan	Date Process Started	No Data to Display
Process Number	PZ25-0002	Date Completed	No Data to Display
Status	Preprocess - Hold	Last Status Change	02/06/2025
Scope Of Work	See project narrative document.		
Conditions	No Data to Display		

Process Step Information

Step Number	Step Display Name	Status	Date Step Started	Date Step Completed	Date Step Due	
1	Review Application for Completeness	Not Started				View
2	Staff Review	Not Started				View
3	CIVIL DRAWINGS	Not Started				View
4	STORMWATER MGT PLAN	Not Started				View
5	LIGHTING PLAN	Not Started				View
6	LANDSCAPE PLAN	Not Started				View
7	EROSION CONTROL PLAN	Not Started				View
8	PRE CON ESCROW TO DEPUTY CLERK \$5K	Not Started				View
9	Post PC Agenda	Not Started				View
10	PC Review and Decision	Not Started				View
11	VILLAGE BOARD NOTIFICATION ONLY	Not Started				View
12	Owner and Applicant Notified	Not Started				View
13	LETTER OF CREDIT - IF INFRASTRUCTURE VILLAGE RESPONSIBILITY	Not Started				View
14	STORM WATER MAINT AGMT	Not Started				View
15	DEVELOPER AGMT	Not Started				View
16	PRE CON MTG	Not Started				View
17	POST APPROVAL CONSTR ESCROW \$10K	Not Started				View
		Not Started				View

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Document Summary

Document Title

Architectural Plans

[Expand All]

Version	Document Title	Review Status	Received	Completed	
1	Architectural Plans	Not Started	2/4/2025		View Document
1	Architectural Plans	Not Started	2/4/2025		View Document

Brooklife Civil Plan Set

[Expand All]

Version	Document Title	Review Status	Received	Completed	
1	Brooklife Civil Plan Set	Not Started	2/4/2025		View Document
1	Brooklife Civil Plan Set	Not Started	2/4/2025		View Document

Brooklife Site Narrative

[Expand All]

Version	Document Title	Review Status	Received	Completed	
1	Brooklife Site Narrative	Not Started	2/4/2025		View Document
1	Brooklife Site Narrative	Not Started	2/4/2025		View Document

CIVIL DRAWINGS

[Expand All]

Version	Document Title	Review Status	Received	Completed	
1	CIVIL DRAWINGS	Not Started			No Attachment

EROSION CONTROL PLAN

[Expand All]

Version	Document Title	Review Status	Received	Completed	
1	EROSION CONTROL PLAN	Not Started			No Attachment

LANDSCAPE PLAN

[Expand All]

Version	Document Title	Review Status	Received	Completed	
1	LANDSCAPE PLAN	Not Started			No Attachment

LIGHTING PLAN

[Expand All]

Version	Document Title	Review Status	Received	Completed	
1	LIGHTING	Not Started			No Attachment

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Document Title

SITE PLAN

[Expand All]

Version	Document Title	Review Status	Received	Completed	
1	SITE PLAN	Not Started			No Attachment

Site Topo Survey

[Expand All]

Version	Document Title	Review Status	Received	Completed	
1	Site Topo Survey	Not Started	2/4/2025		View Document
1	Site Topo Survey	Not Started	2/4/2025		View Document

STORMWATER MGT PLAN

[Expand All]

Version	Document Title	Review Status	Received	Completed	
1	STORMWATER MGT PLAN	Not Started			No Attachment

SUBMITTAL ESCROW \$5K

[Expand All]

Version	Document Title	Review Status	Received	Completed	
1	SUBMITTAL ESCROW \$5K	Not Started			No Attachment

Review Comments/Concerns

Show All

[Collapse All]

Title	Type	Comment Type	Corrected	Date Found	Date Corrected	Process Step	Review	
No records to display.								

Inspection Information

Inspection Type	Inspector	Status	Scheduled Date	Completed Date	Result	
No records to display.						

Fees & Payments

Date	Action	Qty	Description	Billed	Paid
2/6/2025	Invoice Item	7,237.00	PZE Fees: Site Plan - Major (Invoice Number: 00006128)	\$619.74	

Parcel/Land Details

Notes See project narrative and plan sets.

Zoning/Rezoning and Usage

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Dimensional Information

Notes

No Data to Display

Utility Details

Setback Details

Miscellaneous Fields

Parking Details

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**VILLAGE OF MUKWONAGO
WAUKESHA AND WALWORTH COUNTIES**

PC RESOLUTION NO. 2025-05

**A RESOLUTION FOR A SITE PLAN AND ARCHITECTURAL REVIEW FOR THE
BROOKLIFE CHURCH EXPANSION, PARCEL MUKV2009978009**

WHEREAS, pursuant to Section 100-601 of the Zoning Code, an application for a site plan and architectural review has been filed for the approval of a building expansion and site redevelopment for Brooklife Church Inc., which application was filed in the office of the Village Clerk, Village of Mukwonago, Wisconsin, and

WHEREAS, the application has been submitted by Abacus Architects Inc. as the authorized agent, and

WHEREAS, the use is a conditional use within the B-2 General Business District – in which the subject property is located, and

WHEREAS, the plan of operation and plans have been reviewed and recommended by the Plan Commission.

NOW, THEREFORE, BE IT RESOLVED by the Plan Commission of the Village of Mukwonago, Wisconsin hereby approves the site plan and architectural review for the Brooklife Church Expansion to be constructed, based upon the plans submitted to the Village.

NOW, THEREFORE, BE IT FURTHER RESOLVED the site plan and architectural review approval shall be subject to the following conditions:

1. Prior to any land disturbing activity, the applicant must submit a complete and final set of site construction plans to the Village and receive approval of said plans prior to issuance of any building permits. Plans shall include but are not limited to grading, utilities, utility calculations, erosion control, landscaping, lighting, building architecture, building materials and other plans as required. All Village department heads must verify in writing whether they have approved the final plans within their purview. Any outstanding matters must be resolved to staff's satisfaction. Construction shall comply with any conditions of approval issued by staff.
2. A final erosion control plan shall be submitted for review and approval.
3. All required regulatory agency permits shall be received and provided to the Village prior to the start of construction.
4. Prior to any land-disturbing activity, a pre-construction meeting must be held with the applicant's representatives and primary contractors, and Village department heads and representatives. The applicant representative shall coordinate such meeting.
5. The applicant must obtain all required land disturbance permits within six months of this date, and start construction within six months of the date of building permit issuance and continue in good faith to completion.

6. Prior to any land-disturbing activity, the applicant must reimburse the Village for any outstanding charges and establish an escrow account with the Village as may be required.
7. The Applicant shall establish an escrow in the value of \$10,000 prior to the start of construction.
8. The applicant must obtain all required building permits within nine months of this date, and start construction within six months of the date of building permit issuance and continue in good faith to completion.
9. All work related to this project must comply with all project plans approved by the Village.
10. The developer must comply with all requirements related to impact fees imposed by the Village.
11. The developer shall comply with all parts of the Municipal Code as it relates to this project.
12. If the approved plans need to be revised to address any of the conditions of approval or to conform to Building and Fire Safety Codes, the Zoning Administrator and the Building Inspectors are authorized to approve minor modifications so long as the overall project elements remain unchanged. If they determine that the revision is substantial, the plans must be submitted to the Plan Commission for review and approval.
13. Refuse/Recycling Collection shall be contracted privately.
14. All lighting within the parking lot and building lighting shall be full cut off lighting and meet municipal standards. Building lighting shall not be direct light or the appearance of light towards adjoining properties. The Police Department or Zoning Administrator, after completion or any modification to the lighting in the future, may request adjustments. A photometric lighting plan must be submitted and approved prior to construction.
15. Landscaping shall be installed per Village standards and approved plans.
16. Any future modification to the site such as modification of parking, lighting, grading, signage, fences, etc. may require Site Plan and Architectural Review.

Passed and adopted by the Village of Mukwonago Plan Commission this 11th day of March, 2025.

VILLAGE OF MUKWONAGO

By: _____
Fred Winchowky, Village President

Attest: _____
Shay Zervas, Deputy Clerk-Treasurer

PLAN COMMISSION STAFF REPORT

TO: Village of Mukwonago Plan Commission

FROM: Peter Gesch, P.E., Ruekert & Mielke, Inc.

REPORT DATE: March 4, 2025

MEETING DATE: March 11, 2025, 6:30 P.M.

SUBJECT: MASD High School – Scoreboard – SPAR

BASIC INFORMATION	
Project:	MASD High School – Athletic Score Board
Applicant:	Mukwonago Area School District
Consulting Engineer:	N/A
Consulting Architect:	N/A
Request:	Site Plan & Architectural Review
Staff Recommendation:	Approve with Conditions

PARCEL DATA/CHARACTERISTICS	
Tax Key:	MUKV1960998001
Acreage:	75.06 Acres
Current Use:	Institutional
Proposed Use:	Institutional
Reason for Request:	New Score Board
Land Use Classification:	Public/Semi-Public
Zoning Classification:	P-1 – Public/Semi-Public

Project Summary & Overview

The Mukwonago Area School District is planning to replace their existing scoreboard on the west side of the High School's football stadium with a new and larger scoreboard. MASD is also proposing various sponsor signage within the football arena area.

Scoreboards and sponsorship signage does not fall within the bounds of the Village's Sign Code. Further, a scoreboard is a new structure erected on a Village property. Per Village Ordinance, this requires a Site Plan and Architectural Review approval by the Village Plan Commission.

The scoreboard is located 786-FT away from CTH NN and does not face residential properties to the west, south, and east. The scoreboard faces residential properties to the north, in the Fairwinds

~Mukwonago, Village of > 12-10215.125 > MASD High School Scoreboard > Staff Report-20250304 -MASD-High School Athletic Score Board~

Staff Report – SPAR
MASD High School – Athletic Score Board
March 4, 2025
Page 2

Subdivision and the nearest home is approximately 1,000-FT away. The scoreboard will only be active during sporting events and will not have any visible light emittance outside of athletic events.

Staff's interpretation of the sign code is that the scoreboard does not fit the bounds of what the code was intended for. Additionally, staff believes that the sponsorship signage included in the application packet does not require review under the sign code because it is located within the football stadium.

Staff Review

Engineering:	No comments at this time.
Public Works	No comments at this time.
Utilities	No comments at this time.
Police	No comments at this time.
Fire:	No comments at this time.
Building Inspection	No comments at this time.
Planning	No comments at this time.

Recommended Action

Staff recommends the Planning Commission approve with conditions enumerated in the provided resolution for the request to replace the scoreboard located at the MASD High School football stadium.

Attachments

1. Application Packet

Process Details: PZ25-0001

Property Address: 605 W VETERANS WAY, Mukwonago, WI 53149 | Parcel: [MUKV1960998001](#)

Property Owner: MUKWONAGO SCHOOL DISTRICT

Summary Information

> 5 Process Step(s) Found > 0 Inspection(s) Found

This SIGN PERMIT REVIEW was created from an application. [Click here to view the application.](#)

Amount Due

Process - SIGN PERMIT REVIEW Total \$160.00
[Pay Now](#)

Process Information

Filed As	SIGN PERMIT REVIEW	Application Date	01/29/2025
Process Name	SIGN PERMIT REVIEW	Date Process Started	No Data to Display
Process Number	PZ25-0001	Date Completed	No Data to Display
Status	Preprocess - Hold	Last Status Change	01/29/2025
Scope Of Work	High School Football/track stadium replacement of the existing scoreboard with a new digital board and updated interior facing sponsor signs.		
Conditions	No Data to Display		

Process Step Information

Step Number	Step Display Name	Status	Date Step Started	Date Step Completed	Date Step Due	
1	Application Completeness Review	Not Started				View
2	Gather Staff Comments	Not Started				View
3	Planning Commission Review/Decision	Not Started				View
4	Village Board Notification Only	Not Started				View
5	Notify Applicant Of Conditions	Not Started				View

Document Summary

Document Title					
LANDSCAPE PLAN FOR MONUMENT SIGNS ONLY					
[Expand All]					
Version	Document Title	Review Status	Received	Completed	
1	LANDSCAPE PLAN FOR MONUMENT SIGNS ONLY	Not Started		No Attachment	
SIGN PLANS FOR WALL/MONUMENT					
[Expand All]					
Version	Document Title	Review Status	Received	Completed	
1	SIGN PLANS FOR WALL/MONUMENT	Not Started		No Attachment	

Review Comments/Concerns

Show All [Collapse All]							
Title	Type	Comment Type	Corrected	Date Found	Date Corrected	Process Step	Review
No records to display.							

Inspection Information

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Inspection Type	Inspector	Status	Scheduled Date	Completed Date	Result	
No records to display.						

Fees & Payments

Date	Action	Qty	Description	Billed	Paid
1/29/2025	Invoice Item	1.00	PZE Fees: REVIEW BY PC REQ. PER CODE (Invoice Number: 00006106)	\$160.00	

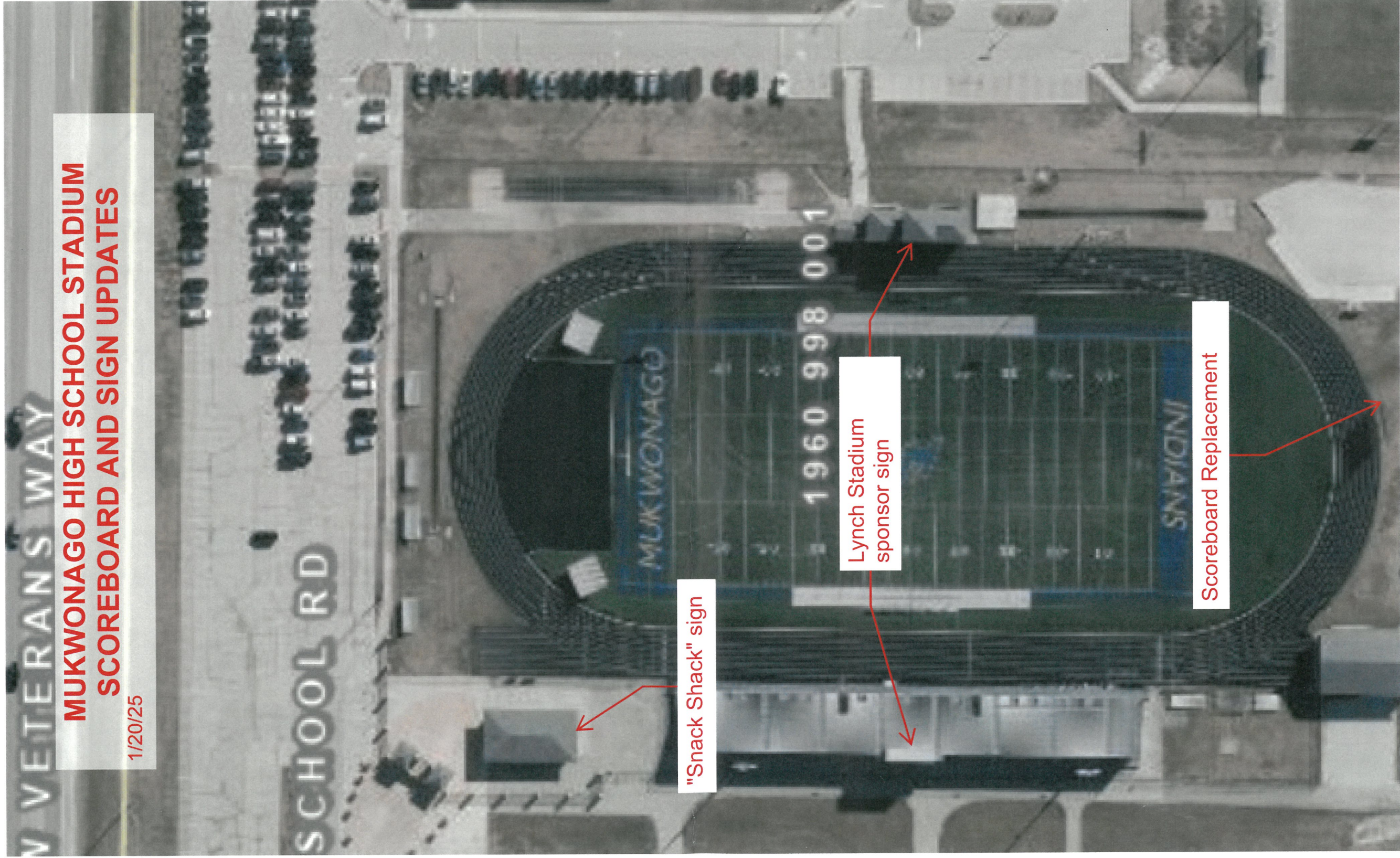
Applicant Information

Address	MUKWONAGO AREA SCHOOL DISTRICT 385 E VETERANS WAY MUKWONAGO, WI 53149				
Phone	No Data to Display	Fax	No Data to Display		
Mobile	No Data to Display	Other Phone	No Data to Display		

Owner Information

Address	MUKWONAGO AREA SCHOOL DISTRICT 385 E VETERANS WAY MUKWONAGO, WI 53149				
Phone	No Data to Display	Fax	No Data to Display		
Mobile	No Data to Display	Other Phone	No Data to Display		

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**MUKWONAGO HIGH SCHOOL STADIUM
SCOREBOARD AND SIGN UPDATES**

1/20/25

"Snack Shack" sign

Lynch Stadium
sponsor sign

Scoreboard Replacement

**MUKWONAGO HIGH SCHOOL STADIUM
SCOREBOARD (setback, height and
operation)**

1/29/25





MARKETING CONCEPTUALS

DEVELOPED FOR

MUKWONAGO HIGH SCHOOL

MUKWONAGO, WI



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DAKTRONICS
SPORTS MARKETING

MUKWONAGO HIGH SCHOOL

CONCEPTUAL DESIGN

STADIUM DISPLAY

TOP ID

One (1) DA-1001-32 Non-Backlit Arch Truss with Backlit Channel Lettering and logo
5'h x 32'w
Lettering 5.8'h x 24.6'

SOUND DISPLAY

One (1) SD-1500HD
6'h x 8'w

SCORING DISPLAY

One (1) FB-2037-W Scoring Display w/TNMC's and Filler panels
4'h x 32'w

VIDEO DISPLAY

One (1) Video Display
336 x 600 - 16MT
18.38'h x 32.82'w

PARTNER PANELS

Two (2) Backlit Partner Panels
6'h x 12.41'w

Five (5) Backlit Partner Panels
4'h 6.564'w

Content created in Framewrx
daktronics.com/framewrx

Video Examples



MUKWONAGO HIGH SCHOOL

INSTALLATION PHOTO

MUKWONAGO

ANCHOR PARTNER

HENSLE
FIELD

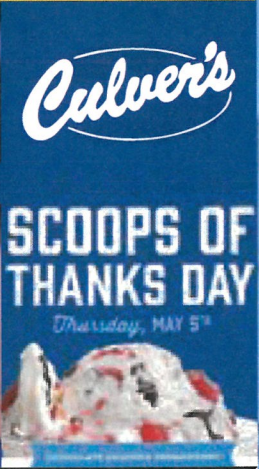
ANCHOR PARTNER

INDIANS < T.O.L. 3
21 DOWN 1 TO GO 10

7:23

3 T.O.L. BEARS
40 BALL ON 3 QTR 14





SCOOPS OF
THANKS DAY
Thursday, MAY 5th

MADRID BEARS

VS
VS
VS





SOUTH HARDIN TIGERS

FOUNDING PARTNER

FOUNDING PARTNER

FOUNDING PARTNER

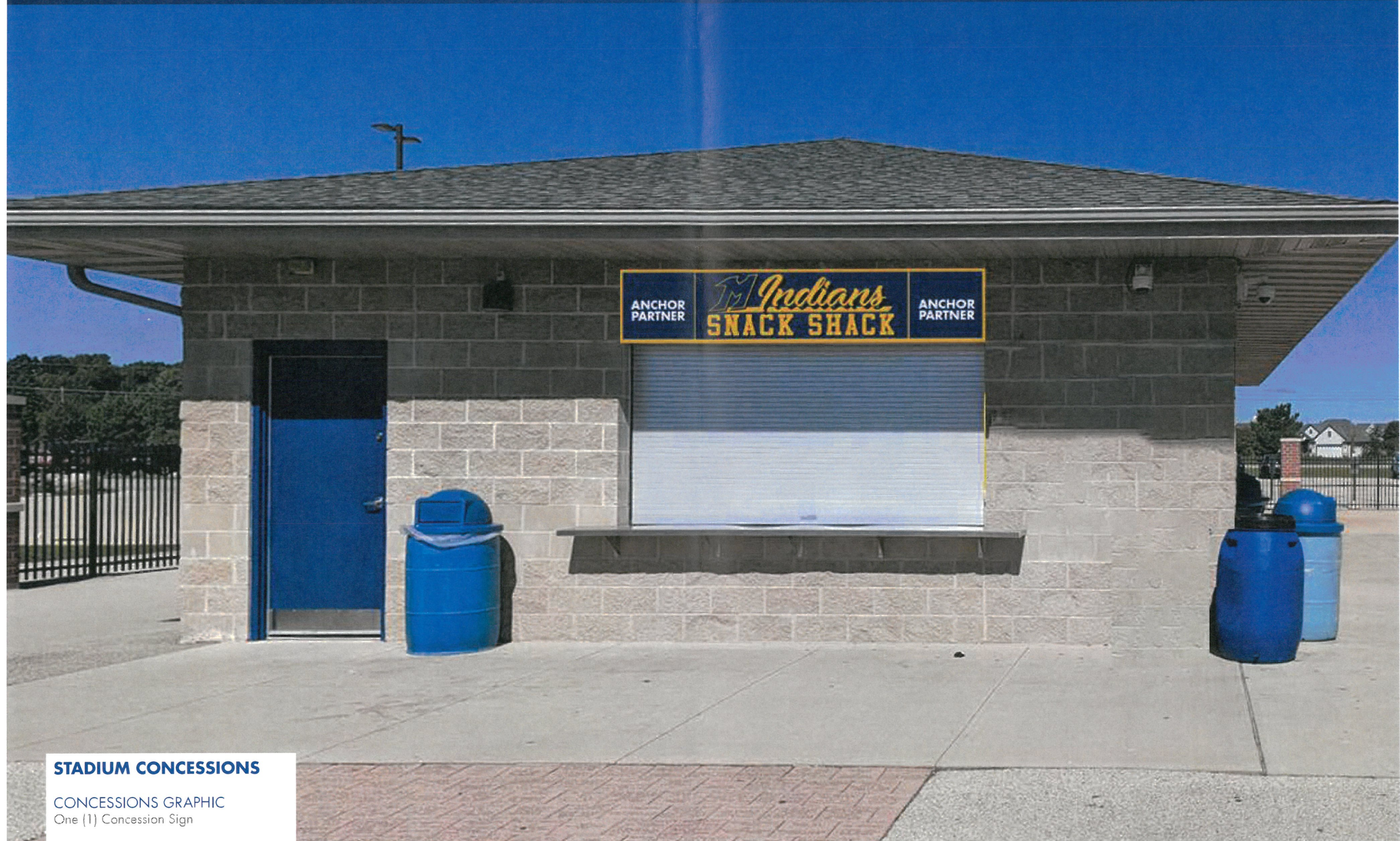
FOUNDING PARTNER

FOUNDING PARTNER

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MUKWONAGO HIGH SCHOOL

INSTALLATION PHOTO



STADIUM CONCESSIONS

CONCESSIONS GRAPHIC
One (1) Concession Sign

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MUKWONAGO HIGH SCHOOL

INSTALLATION PHOTO



STADIUM GRAPHIC

WELCOME GRAPHIC

One (1) Non-Backlit Welcome Sign
3.5h x 33'w

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MUKWONAGO HIGH SCHOOL

INSTALLATION PHOTO



STADIUM GRAPHIC

WELCOME GRAPHIC

One (1) Non-Backlit Welcome Sign
2.5h x 23.5'w

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**VILLAGE OF MUKWONAGO
WAUKESHA AND WALWORTH COUNTIES**

PC RESOLUTION NO. 2025-06

**A RESOLUTION FOR A SITE PLAN AND ARCHITECTURAL REVIEW FOR MUKWONAGO
AREA SCHOOL DISTRICT HIGH SCHOOL NEW FOOTBALL STADIUM SCOREBOARD,
LOCATED AT 385 E. VETERANS WAY, PARCEL MUKV1960998001**

WHEREAS, pursuant to Section 100-601 of the Zoning Code, an application for a site plan and architectural review has been filed for the approval of a new scoreboard at the existing football stadium for the MASD High School, which application was filed in the office of the Village Clerk, Village of Mukwonago, Wisconsin, and

WHEREAS, the application has been submitted by Mukwonago Area School District. as the authorized agent, and

WHEREAS, the application is for modifications related to the additional of five new vacuum stalls on the site, and

WHEREAS, the planned modifications meet all the requirements of the Village Zoning Code.

NOW, THEREFORE, BE IT RESOLVED by the Plan Commission of the Village of Mukwonago, Wisconsin hereby approves the site plan and architectural review for a new football stadium scoreboard at 385 E. Veterans Way, based upon the plans submitted to the Village.

NOW, THEREFORE, BE IT FURTHER RESOLVED the site plan and architectural review approval shall be subject to the following conditions:

1. The applicant must obtain all required permits within nine months of this date and start construction and continue in good faith to completion.
2. All work related to this project must comply with all project plans approved by the Village.
3. The developer shall comply with all parts of the Municipal Code as it relates to this project.
4. Any future modification to the site such as modification of parking, lighting, grading, signage, fences, etc. may require Site Plan and Architectural Review.

Passed and adopted by the Village of Mukwonago Plan Commission this 11th day of March, 2025.

VILLAGE OF MUKWONAGO

By: _____
Fred Winchowky, Village President

Attest: _____
Shay Zerfas, Deputy Clerk-Treasurer



STAFF REPORT
VILLAGE OF MUKWONAGO PLAN COMMISSION
Tuesday, March 11, 2025
6:30 PM
440 RIVER CREST CT
MUKWONAGO, WI 53149

Review of Proposed New Village Zoning Code

Overview

This is an update of the Review of the new proposed Zoning code. We have reviewed the **first 3** sections:

[Appendix A - Use tables \(both residential and commercial\)](#)

[Appendix C - Zoning Districts and Dimensional standards tables](#)

[Appendix F – Definitions](#)

Appendix B – Land Use descriptions and Standards

Mapping, PUD's and overlays, chapter 6 zoning districts

Historic Preservation Overlay Dist.

Note: the sign code is not currently part of this review

Recommendations

We have not completed our review, so we are not providing any recommendations currently. We will compile a list of items for further consideration

We have had to pause our meetings for personal reasons, but we are resuming our weekly meetings with Mr. Schwecke starting again on Thursday March 13th.

It is important to note when this code is adopted, we will need the planner to interpret and instate the new Development and alternative development standards.

Respectfully Submitted:
Corry Eifert, Tim Rutenbeck
Building Inspection Dept.