PLAN COMMISSION
AGENDA

October 10, 2024 – 6:00 pm
Village Hall
235 Hickory Street, Pewaukee, WI 53072

To view the meeting: https://www.youtube.com/live/Zt7HqWdUpl8?si=U3XkRD8TElabGuTs

1. Call to Order, Roll Call, Pledge of Allegiance, & Moment of Silence.

2. Public Hearings.
   a. None

3. Citizen Comments: *This is an opportunity for citizens to share their opinions with Commission Members on any topic they choose. However, due to Wisconsin Open Meeting laws, the Commission is not able to answer questions or respond to your comments. All comments should be directed to the Commission. Comments are limited to 3 minutes per speaker. Speakers are asked to use the podium and state their name and address.*

4. Approval of the Minutes:
   a. Regular Plan Commission Meeting – September 12, 2024

5. Old Business.
   a. None

6. New Business.
   a. Review, discussion, and possible action on the proposed business plan and architectural site plan review to modify portions of the Pewaukee High School to demolish 16,690 SF and construct 34,950 SF. This 80-acre parcel, located at 510 Lake Street, is zoned IPS Institutional and Public Service District. Property owner and applicant is the Pewaukee School District.

7. Citizen Comments. – *This is an opportunity for citizens to share their opinions with Commission Members on any topic they choose. However, due to Wisconsin Open Meeting laws, the Commission is not able to answer questions or respond to your comments. All comments should be directed to the Commission. Comments are limited to 3 minutes per speaker. Speakers are asked to use the podium and state their name and address.*

8. Adjournment

Note: It is possible that members and/or possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information; action will not be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in the notice. Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. To request such assistance, contact the Village Clerk at 262-691-5660.

Dated: October 4, 2024

Plan Commission Meeting
September 12, 2024 – 6:00 pm
Village Hall
235 Hickory Street, Pewaukee, WI 53072

https://www.youtube.com/live/Ebu7gaMmkcU

1. Call to Order and Roll Call, Pledge of Allegiance, & Moment of Silence
Comm. Hoff called the meeting to order at approximately 6:00 p.m.

Plan Commission members present: Comm. Mark Grabowski; Comm. Sam Liebert; Comm. Brian Belt; Comm. Katie Jelacic and Comm. Theresa Hoff.

Excused: Trustee Bob Rohde, and President Jeff Knutson.

Also present: Village Attorney, Matt Gralinski; Village Planner, Ben Kohout; Village Engineer, Tim Barbeau; Village Administrator, Matt Heiser; Village Clerk, Jenna Peter; and Deputy Clerk, Mackenzie Quigley.

2. Public Hearings –

a. **Conditional Use Grant request to construct a 160 sq. ft. accessory structure. The accessory structure is proposed at 3 feet from the side offset which is permissible only through the issuance of a Conditional Use Grant on a legal non-conforming lot (Section 40.210(4)a). This 0.5-acre parcel, located at 513 W Wisconsin Avenue/ PWV 0893950, is zoned R-5 Residential Detached District. Property Owner/Applicant is Dale Burkhart.**
– No comments.

3. Citizen Comments – No comments.

4. Approval of the Minutes

a. **Regular Plan Commission Meeting – August 8, 2024.**

Comm. Belt motioned/seconded by Comm. Grabowski to approve the August 8, 2024; Regular Plan Commission Meeting minutes as presented.
Motion carried 4-0; Comm. Liebert abstained.

5. Old Business

a. **None**

6. New Business

a. **Review, discussion, and possible action on Conditional Use Grant request to construct a 160 sq. ft. accessory structure. The accessory structure is proposed at 3 feet from the side offset which is permissible only through the issuance of a Conditional Use Grant on a legal nonconforming lot (Section 40.210(4)a). This 0.5-acre parcel, located at 513 W Wisconsin Avenue/ PWV 0893950, is zoned R-5 Residential Detached District. Property Owner/Applicant is Dale Burkhart.**
Ben Kohout, Village Planner, stated that all of the R-5 zoning district requirements appear to

be met with this new shed proposal, other than the 10-foot offset needing approval from the Plan Commission.

Village Planner Recommendations:

1. That this conditional use allows a new accessory structure on the above referenced property to be up to three (3) feet from the western property line due to an existing shed having been found here currently at the same location.
2. That all conditions made by the Plan Commission at their meeting of September 2024 are met.
3. That the new accessory structure meets all building and zoning codes including a height of no more than 15 feet.
4. The Petitioner shall satisfy all comments, conditions, and concerns of the Village of Pewaukee Plan Commission, Village Engineer and Village Planner for the site plan, and other documentation.
5. Building Inspection. The Petitioner and/or Property Owner shall comply with any and all recommendations by the Village Building Inspector (or designee) prior to the issuance of an occupancy & use permit for the subject property. Approval by the Village Building Inspector, if granted, shall be solely for the benefit of the Village of Pewaukee, and shall not be relied upon by the petitioner or others as proof of structural integrity or safety of any structure on the property, or as proof of compliance with any particular construction standard that would apply to new construction. The petitioner shall independently determine the suitability of all structures on the property for the petitioner's intended uses.
6. This approval is granted for the express conditions stated herein. Changes or alterations including, but not limited to, a change in use, premises, lands, or ownership of the property in question shall require a new conditional use approval with all the zoning procedures at the time being followed. The allowed uses of the property must at no time be hazardous, harmful, obnoxious, offensive, or a nuisance by reasons of appearance, noise, dust, smoke, odor, or other similar factors. Any use not specifically listed, as permitted, shall be considered to be prohibited, except as may be otherwise specified herein.
7. The Property Owner shall allow Village of Pewaukee representatives to inspect the premises following a 24-hour notice for the purpose of determining compliance with this approval.
8. The Petitioner and/or Property Owner shall obtain the appropriate permits from the Village of Pewaukee.
9. The Petitioner and/or Property Owner shall, on demand, reimburse the Village of Pewaukee for all costs and expenses of any type incurred by the Village in connection with the review and approval of this application, including, but not limited to, the cost of professional services incurred by the Village for the review and preparation of required documents, attendance at meetings or other related professional services as well as to enforce the conditions in this approval due to a violation of these conditions.

Comm. Grabowski motioned/seconded by Comm. Belt to approve, including the planner's recommendations.

Motion carried 5-0.

b. **Review, discussion, and possible recommendation to the Village Board to approve a Certified Survey Map request to combine two (2) properties. These parcels are .579 acres combined, located at PWV 0904023006 and PWV 0904023006, are zoned R-5 Single-Family Residential District. Property Owners/Applicants are Patrick and Jean Patterson.**

Village Planner Recommendations:

1. Any conditions made by the Plan Commission at their meeting of September 2024.
2. That all engineering comments are satisfied for the Certified Survey Map prior to Village signature and recording.

Village Engineer Recommendations:

Recommends approval of the CSM dated August 26, 2024, subject to satisfaction of any outstanding comments by the Village Planner or Plan Commission prior to the Village executing the document.

Comm. Liebert motioned/seconded by Comm. Grabowski to approve the plans presented with the planner recommendations and engineer recommendations.

Motion carried 5-0.

7. Citizen Comments – None.

8. Adjournment

Comm. Jelacic motioned/seconded by Comm. Belt to adjourn the September 12, 2024, Regular Plan Commission meeting at approximately 6:12 p.m.

Motion carried 5-0.

Respectfully submitted,

Mackenzie Quigley
Deputy Clerk

Foth

Staff Review

TO:	Village of Pewaukee Plan Commission
CC:	Matt Heiser, Jenna Peter
FROM:	Ben Kohout AICP, Planning Consultant
RPT DATE:	October 2, 2024
MTG DATE:	October 10, 2024
RE:	Pewaukee School District – Site Plan/Plan of Operation Request

BACKGROUND:

1. Petitioner: Eppstein Uhen Architects, Inc., Pewaukee School District
2. Property Owner: Pewaukee School District
3. Location/Address: 510 Lake Street
4. Tax Key Number: PWV 0899235001
5. Area: ~80 AC
6. Existing Zoning: IPS Institutional and Public Service District
7. Proposed Zoning: N/A
8. Future Land Use: Institutional
9. Proposed Future Land Use: N/A

OVERVIEW:

The Petitioner is requesting to make modifications to the buildings and site at the Pewaukee High School. Specifically, the modifications are as follows:

- Demolish ~16,690 SF of the existing building on the west side of the high school
- Construct ~34,950 SF in its place resulting in a total SF gain of 18,260 SF
- Internal building modifications will be for the high school STEAM education programs
- Site changes will include new parking lot configurations and stormwater management needs (Recommended approval at the July 11, 2024 Plan Commission meeting)
- Private storm sewer and public water main re configurations are required (Recommended approval at the July meeting)

The project is noted to be completed in two (2) phases as follows:

1. Phase 1: Site preparation/grading activities and relocation of underground utilities (Recommended approval at the July meeting)
2. Phase 2: Architectural/Building/Lighting Elements

Plan Commission will note that the plans submitted herein represent the second Phase, of the two phase project. The first phase, including the site grading and impervious surface considerations, including the parking lot layout and associated landscaping, was heard by the Plan Commission on July 11, 2024 and recommended approval of the size of building expansion and associated landscaping. This Second phase, they are presenting the architectural drawings and other site element drawings (lighting plans).

SUBMITTAL:

The enclosed submittal includes an updated Building Site Plan application, a previously submitted: "Phased Construction Document", a site demolition plan, site layout plan, site signage & traffic control plan, grading plan, utility plans, erosion control plan, and a landscape plan. Updates with this submittal include:

1. Architectural site plan
2. Concept Design Imagery and Diagrams
3. Overall and enlarged building floor plans
4. Elevation drawings
5. Material palette information
6. Perspectives of building additions with exterior material identifications
7. Site Lighting photometrics
8. Site lighting cut sheets

PLANNER COMMENTS:

1. **Comprehensive Plan.** The Future Land Use of Institutional is consistent with the zoning of IPS Institutional and Public Service District.

2. **Zoning District Requirements.** The proposed continued use of a public school facility is permitted by right in the IPS Institutional and Public Service District. The IPS district has the following locational requirements (*notes on meeting each requirement are included*):

    - Building Floor Area Ratio: 30% *(new proposal meets requirement)*
    - Building Height: 27'8" *(new proposal meets 42 foot maximum height)*
    - Setback: 50' *(new proposal meets requirement)*
    - Offset: 20' or 30' next to residentially zoned lot *(new proposal meets requirement)*
    - Open Space Ratio: 30% *(new proposal meets requirement)*
    - *Building Materials and Architecture: Standards found in Section 40.447 are inclusive of institutional properties and the proposal meets the standards established therein.*

3. Architectural Review (from Section 40.447):

    a. Building scale and mass. The relative proportion of a building to its neighboring existing buildings shall be maintained to the greatest extent possible when new buildings are built or when existing buildings are remodeled or altered. This standard is met with the proposed architectural plans presented in October 2024.

    b. Building rooflines and roof shapes. The visual continuity of roofs and their contributing elements (parapet walls, gables, coping, cornices, etc.) shall be maintained in building development or redevelopment. Heating, ventilation, air conditioning and other rooftop mechanical equipment must be appropriately screened from view. This standard is met with the proposed architectural plans presented in October 2024.

    c. Materials. New retail and office building construction shall consist of quality materials such as brick, wood, stone and glass. New industrial building construction may also use decorative concrete block in addition to the above listed materials. The plan commission may, however, allow the use of metal building components, exterior finish insulation systems, and concrete block if incidental to the primary building architecture, screened from public view, or if used to reflect existing building architecture. The proposal includes the use of precast concrete and brick, with glass and metal. This standard is met with the proposed architectural plans presented in October 2024.

    d. Colors. Buildings shall generally reflect earth tone colors. Awnings, trim and window colors are allowed greater color latitude subject to plan commission approval. The proposal includes dark grey concrete, light grey (white) concrete, and brown brick material with metal trim. This standard is met with the proposed architectural plans presented in October 2024.

    e. Building design and compatibility. Proposed office and retail building design shall reflect traditional architectural styles with gabled rooflines, interesting fenestration and human scale.

Proposed industrial building design shall reflect contemporary standards of quality building design (e.g., Fall's Business Park, Brookfield Lakes Corporate Center, Pewaukee Woods and the Mequon Business Park). Extended expanses of walls shall be broken up with the use of creative pilasters, fenestration, soldier courses or elevation offsets. The proposal includes the use of elevation offsets, or articulation with height and depth of walls along the western and southern facades. This standard is met with the proposed architectural plans presented in October 2024.

f. Design portfolio. The village shall maintain a building design portfolio illustrating acceptable examples of building architecture and design. Planning commission approval of proposed building architecture shall be based, among other things, on these design concepts. The architect has presented the downtown Pewaukee buildings and noted the articulation of massing through variety of materials, massing setbacks and strategic placement of glazing. This standard is met with the proposed architectural plans presented in October 2024.

4. Site & Operation Improvements:

a. **Uses and activities:** The improvements will have continued use for public school and recreational activities.

b. **Number of Employees:** No employment details are mentioned.

c. **Hours of operation:** No hours of operation are mentioned but all future activities are intended to operate within normal school-related business and recreational hours.

d. **Site.** The proposed building addition and parking lot configuration is essentially in a dead end portion of the Pewaukee High School site on the southwest corner of the main building just east of the main Athletic football field. As shown in the drawings the new building addition will extend further south than what currently exists. All parking lot needs will also be required to extend further south than what's there today stemming into what are general athletic fields today. The plans show where a future indoor athletic practice field is intended in the future.

e. **Traffic, Circulation and Access.** Traffic to this area will continue down what is known as Lake Street along the west side of the main high school building. Traffic can continue around the new parking lot and exit back to the north along Lake Street. The proposed improvements reconnect to the existing frontage road that wraps around the south half of the current structure. The proposal is subject to fire department approval for access requirements.

f. **Parking:** A parking lot exists today with seventy-eight (78) stalls (including four (4) handicap stalls). The proposed improvements will shift a new parking lot further south on the lot and would now consist of ninety-nine (99) stalls (including four (4) handicap stalls). This 99 stall count reflects the 8-28-24 site plan version. The school was originally approved under the Village of Pewaukee code requiring: "One space per teacher and staff member, one-half space, per classroom, plus one space per six students 16 years of age and older." Historically it has been deferred to the District that their parking meets their needs. Plan Commission reviewed the parking lot layout and numbers at the July 2024 meeting and approved parking stall numbers as proposed and the waivers as part of a Building Site Plan process. Stall depths, widths, and drive aisles proposed all meet code.

g. **Outdoor Storage:** No outdoor storage proposed.

h. **Landscaping:** A new landscape plan and landscape detail sheet is part of the proposal. The plan shows new foundation plantings around the building plantings on the endcaps of the new parking

lot, and some new tree plantings on the south end of the parking lot. The main zoning code applying to landscaping for this proposed development is as follows:

a. *40.445(b)Parking lot landscaping. Off-street parking lots with more than ten stalls shall have at least ten percent of the interior parking area landscaped. The species of landscape plantings are subject to plan commission approval.*

With the revised landscaping plan submitted, dated 8/28/24, they are showing two (2) Norway Spruce trees on the south edge of the parking lot, three (3) Honey Locust trees adjacent to and within the landscape island in the parking lot, providing shade. There are other decorative shrubs/trees on the northern landscape islands in the parking lot and along the building façade. The Plan commission reviewed the interior parking lot island planting requirements at the July meeting and the proposed landscaping plan appears to meet the standards in Section 40.445 of the Zoning Code with this revision.

i. **Exterior Lighting:** Section 40.448 governs lighting standards, including hours of lighting being on in the Village Ordinances. A lighting plan is proposed with the submitted plans for review and consideration by the Plan Commission. The lighting proposed show lighting installed on the south, and west building facades with shielding, along with a lighting intensity plan. In addition, three 22 foot tall light poles (25 foot max. is required per Code) are proposed with downward projecting and shielded lights on top of the poles and within the parking area on the south end of the new proposed parking lot. The one question for the Plan Commission is are they okay with lights being on past 11pm, as the Ordinance requires lights to be turned off one half hour after closing? Security lights are permitted and the Plan Commission should determine if they are okay with parking lot lights/building façade lights being on along the entire perimeter or should they be limited to doorways? The Plan Commission should discuss and rule on this. The lighting intensity plan shows the cut off fixtures producing 0 foot candles, as measured at the lot lines. The lighting intensity plan and styles of lighting meet the Zoning code standards.

j. **Signage:** No signage is part of the proposal at this time. Signage details will be subject to standards in the Chapter 70 Sign Code of the Village of Pewaukee General Code of Ordinances.

k. **Engineering Plans:** Plans have been submitted to the Village Engineer and have been approved. The staff recommendation is subject to the final review/approval of the Village Engineer.

   i. **Stormwater/Grading/Erosion Control**: A grading and erosion control plan are part of the plan set as well as a stormwater management plan. The plans indicate the grading limits required along with showing a bioretention basin in the southwest corner of the construction limits. Underground storm sewer structures are required. The Village Engineer has approved the plans according to the Village Standards of design.

   ii. **Utilities**: A public watermain is required to be re-routed as part of the project. The Village Engineer has approved the plans according to the Village Standards of Design.

STAFF RECOMMENDATION:

Depending on confirmation by the Village of Pewaukee Plan Commission of the above-described comments, the Village of Pewaukee Plan Commission may take the following actions:

Business Site Plan

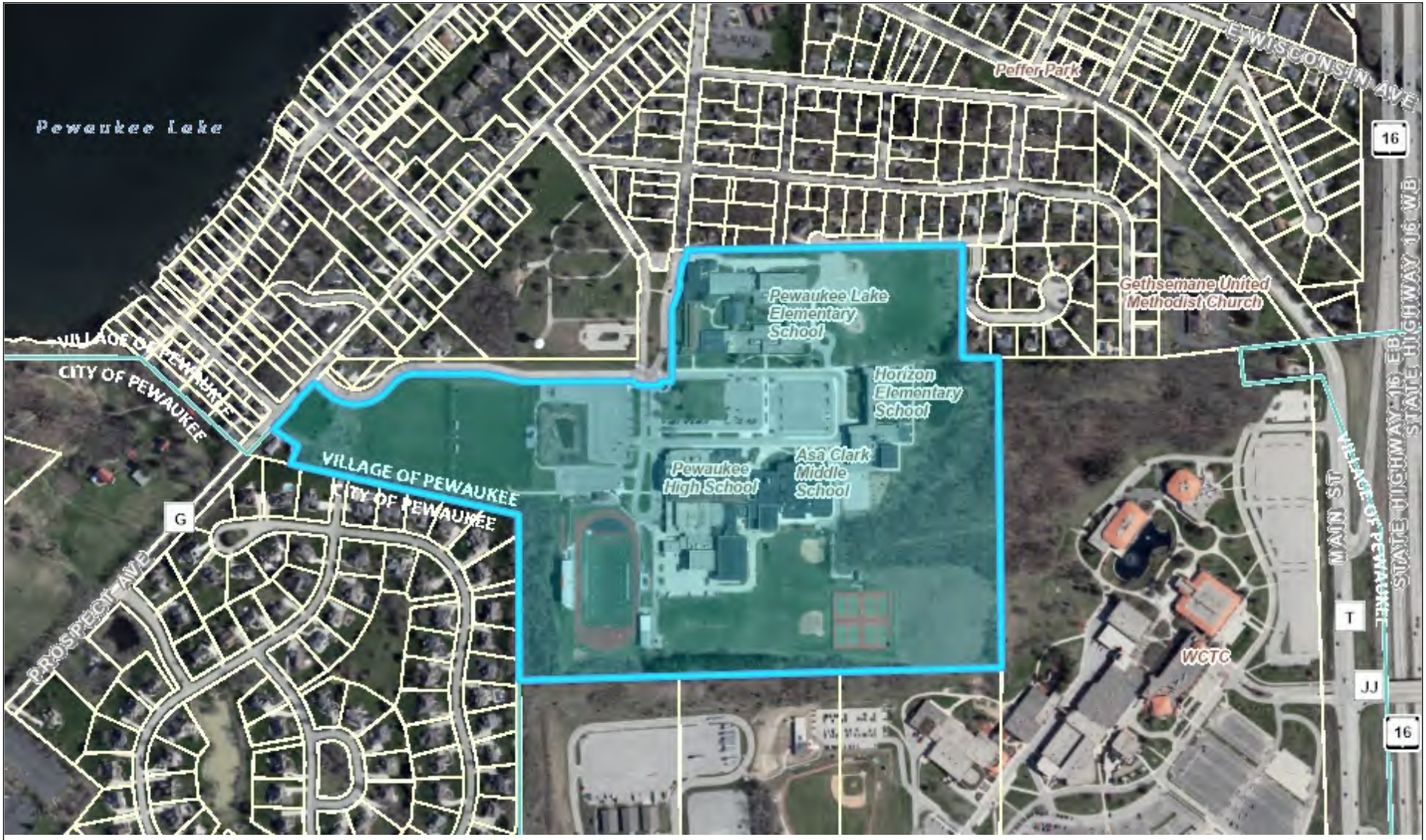
The Village of Pewaukee Plan Commission **Approves** the Business Site Plan Request and Associated Architecture, Lighting and Landscaping Plans for Pewaukee School District for the property located at 510 Lake Street, subject to the following conditions:

1. That all conditions made by the Plan Commission at their meeting of October 2024 pertaining to architecture, site design, landscaping, lighting, grading, parking, or other, are met.
2. This Site Plan/Plan of Operation approval is subject to the Petitioner complying at all times with the plans and documents presented to the Village of Pewaukee Plan Commission. The existing site plan/plan of operation shall remain in effect, except as further restricted or modified herein.
3. Any roof mounted equipment shall be located, screened or painted to minimize visibility from streets and adjacent sites.
4. The Petitioner shall satisfy all comments, conditions, and concerns of the Village of Pewaukee Plan Commission and Board, Village Engineer and Village Planner for the site plan, and other documentation.
5. Building Inspection. The Petitioner and/or Property Owner shall comply with any and all recommendations by the Village Building Inspector (or designee) prior to the issuance of an occupancy & use permit for the subject property. Approval by the Village Building Inspector, if granted, shall be solely for the benefit of the Village of Pewaukee, and shall not be relied upon by the petitioner or others as proof of structural integrity or safety of any structure on the property, or as proof of compliance with any particular construction standard that would apply to new construction. The petitioner shall independently determine the suitability of all structures on the property for the petitioner's intended uses.
6. Fire Inspection. The Petitioner and/or Property Owner shall comply with any and all recommendations by the Village of Pewaukee Fire Department Chief (or designee) prior to the issuance of an occupancy & use permit for the subject property. Approval by the Village of Pewaukee Fire Department Chief (or designee), if granted, shall be solely for the benefit of the Village of Pewaukee, and shall not be relied upon by the petitioner or others as proof of fire safety of any structure on the property, or as proof of compliance with any particular fire safety standard that would apply to new construction. The petitioner shall independently determine the fire safety and suitability of all structures on the property for the petitioner's intended uses.
7. This approval is granted for the express conditions stated herein. Changes or alterations including, but not limited to, a change in use, premises, lands, or ownership of the property in question shall require a new Business Site Plan approval with all the zoning procedures at the time being followed. The allowed uses of the property must at no time be hazardous, harmful, obnoxious, offensive, or a nuisance by reasons of appearance, noise, dust, smoke, odor, or other similar factors. Any use not specifically listed, as permitted, shall be considered to be prohibited, except as may be otherwise specified herein.
8. The Property Owner shall keep the exterior condition of the premises in a neat and orderly condition at all times so the premises will not detract from neighboring premises. There shall be no outside storage of junk, debris, construction material, or other refuse materials within the property and all such materials shall be disposed of promptly and properly.
9. The Property Owner shall allow Village of Pewaukee representatives to inspect the premises following a 24-hour notice for the purposes of determining compliance with this approval.
10. The Petitioner and/or Property Owner shall obtain the appropriate permits from the Village of Pewaukee.
11. The Petitioner and/or Property Owner shall, on demand, reimburse the Village of Pewaukee for all costs and expenses of any type incurred by the Village in connection with the review and approval of this application, including, but not limited to, the cost of professional services incurred by the Village for the review and preparation of required documents, attendance at meetings or other related professional services as well as to enforce the conditions in this approval due to a violation of these conditions.

EXHIBIT:

A. GIS Property Location Map

B. Petitioner Application



Village of Pewaukee GIS

Pewaukee High School Petition

DISCLAIMER:

This map is not a survey of the actual boundary of any property this map depicts.

The Village of Pewaukee does not guarantee the accuracy of the material contained here in and is not responsible for any misuse or misrepresentation of this information or its derivatives.

SCALE: 1 = 588'

Village of Pewaukee
235 Hickory Street
Pewaukee, WI 53072
262-691-5660

Print Date: 6/28/2024

PLAN COMMISSION REVIEW APPLICATION – PROJECT NARRATIVE

333 E Chicago St
Milwaukee, WI 53202
414.271.5350

September 11, 2024

Village of Pewaukee
Department of Planning & Development
235 Hickory St.
Pewaukee, WI 53072

PROJECT DESCRIPTION

Pewaukee School District: Pewaukee High School STEAM Addition and Renovation
510 Lake St; Pewaukee, WI 53072

EUA Project Number: 323342-01

The Pewaukee School District had a referendum approved by their communities in February 2024. The proposed project at Pewaukee High School consists of 10,500 square feet of selective demolition to the existing STEAM classrooms and 7,500 square feet to the physical education and fitness spaces. The project will also consist of a 35,000 square foot addition, for a total net gain of 23,000 square foot to the building. The addition will provide new and expanded STEAM classrooms as well as physical education and fitness spaces. The one-story addition will be built in the same location as the existing STEAM classrooms but will expand the footprint to the west and south. There will also be 12,000 square feet of existing classroom renovations.

To assist you in the review of this application the following documents are attached:

1. Site demolition plan*
2. New site plan*
3. Site signage and traffic control plan*
4. Grading plan*
5. Site utility plan*
6. Public watermain plan*
7. Erosion control plan*
8. Landscaping plan*
9. Architectural Site Plan
10. Concept Design Imagery & Diagrams
11. Overall and enlarged building floor plans
12. Elevation drawings of proposed
13. Material Palette Information
14. Perspectives of building additions with exterior material identifications
15. Site Lighting photometrics
16. Site lighting cut sheets

* Site/Civil drawings submitted to the Village of Pewaukee for Plan Commission meeting on July 11th. Provided as a reference in this submittal.

Sincerely,

Maclain Schramm
Project Manager
Eppstein Uhen Architects, Inc.

APPLICATION PROCESS FOR BUSINESS SITE PLAN APPROVAL REQUESTS

235 Hickory St, Pewaukee WI 53072 - villagehall@villageofpewaukeewi.gov - (262) 691-5660

Step 1: Please read through the attached sections of the Village's Development Code that explains the process for requesting site plan approval (Section 40.437 of Land Development Code or web link: https://library.municode.com/wi/pewaukee/codes/code_of_ordinances?nodeId=PTIIMUCO_CH40LADE_ARTIXSIPLDECR_DIV2SIPLRECOININPAMUREDE).

Contact the Village Planner (see contact information on our website) to discuss your application and determine whether to proceed with a consultation or move directly to a request for action on an application for site plan approval.

The consultation process is intended to allow applicants an opportunity to conceptually discuss their plans with the Plan Commission and receive valuable feedback prior to drafting detailed plans. The Village Planner will assist the applicant in determining what type of conceptual plans, if any, to submit for this process.

Step 2: Submit a fully completed application form along with the required copies of all attachments that you wish to have considered by the Plan Commission as part of your application. Please fold all attachments so that they are 8 1/2" x 11" size and with project name/identification visible. **Incomplete applications and applications submitted without all of the required documents, will not be accepted.**

Please Note: Applications must be submitted to Village Hall four weeks (30 days) prior to the Plan Commission meeting. Plan Commission meetings are held on the second Thursday of each month at 7:00 pm. This four week submittal requirement allows the Village time to review the application, obtain additional information from you if need be and set up a public hearing, if required.

Step 3: The Village Planner and the Village's consulting Engineer will be reviewing your application and will prepare a report for the Plan Commission, which will include recommendations for action.

Please Note: Multiple Plan Commission meetings are often required prior to final project approval.

VILLAGE OF Pewaukee

BUSINESS SITE PLAN APPLICATION FORM

235 Hickory St, Pewaukee WI 53072 - villagehall@villageofpewaukeewi.gov - (262) 691-5660

PROPERTY / PROPERTY OWNER INFORMATION

Property Address: 510 Lake St, Pewaukee, WI 53072 Tax Key: PWV 0899235001

Property Owner Name: Pewaukee High School Zoning of Property: IPS - Institutional and Public Service

APPLICANT INFORMATION

Applicant Name: Maclain Schramm Applicant Phone #: 414-291-8181

Applicant Address: 333 East Chicago St. ; Milwaukee, WI 53202

Applicant Email: maclains@eua.com

DESCRIPTION OF REQUEST (Please be thorough and attach additional pages if needed)

Business Name Corresponding to Site Plan: Pewaukee School District

FEIN, if applicable: 39-6003870

Summary of Request (New Construction, Addition, Modification, etc.): The proposed project at Pewaukee High School consists of 10,500 square feet of selective demolition to the existing STEAM classrooms and 7,500 square feet to the physical education and fitness spaces. The project will also consist of a 35,000 square foot addition, for a total net gain of 23,000 square foot to the building. The addition will provide new and expanded STEAM classrooms as well as physical education and fitness spaces. There will also be 12,000 square feet of existing classroom renovations.

DIRECTIONS / NOTES—See page 4 for specific items required

NOTE: As this is for consultative purposes only, an engineering review will not take place at this time. An engineering review will take place if/when a formal application for approval is submitted.

Please return Completed Application Forms along with the following:

- ☑ 1. One paper copy of the submittal, including plans/drawings/applicable attachments attachments in a size 11x17 page size or less. Also provide one full size scale copy if larger than 11x17.
- ☑ 2. One digital copy of the submittal, including plans/drawings/applicable attachments. (USB/Email)
- ☑ 3. Signatures on page 3
- ☑ 4. Completed Professional Services Reimbursement Form
- ☐ 5. Conditional Use for Restaurant/Night Club must be attached ***if applicable***

For Office Use Only Staff Initials:_____ Date/Time Received: _____

Provide detailed information with your application that addresses the following:

1. Development Plans of the proposed use in sufficient detail to enable the Commission to evaluate your application such as architectural & landscape treatment, proper placement of the building(s) on the lot, traffic generation & circulation, provision for parking, site grading and drainage, exterior lighting, dumpster location and screening, outside storage of any sort, and manner of control devices (when necessary) to eliminate noise, dust, odor, smoke or other objectionable operating conditions & ensure general compatibility of the proposed use within its surroundings.

2. It is the responsibility of the applicant/owner to ensure that the proposed project complies with the Village's Land Development Code. It is also highly recommended that the applicant/owner review the Village's adopted Land Use Plan to ensure a proper understanding of the Village's future vision for the area in question.

3. Signage shall be determined through a sign permit process and/or a sign plan approved by the Plan Commission. Permits for individual signs may be applied for with the Village's Code Compliance Officer.

John Gahan

Property Owner Printed Name

Signature of Property Owner

The application will not be processed without the Owner's Signature regardless of who is listed as the Applicant. This signature authorizes the Village of Pewaukee to process the Conditional Use Approval Application proposed for my property and further authorizes the Village or its representatives to conduct reasonable and routine inspections of my property for the purposes of evaluating this application.

Maclain Schramm

Applicant's Printed Name

Signature of Applicant

If you have any questions, please call Village Hall at (262) 691-5660.

See the municipal code regarding site structure design criteria for the commercial, industrial, park, institutional, and multi-family residential developments for a complete listing of plan requirements. Additional plan details may be required on a case-by-case basis if the Village's review staff or the Planning Commission finds such information is necessary to complete a full and proper project review.

DETAILED SITE PLAN

- engineering scale
- Location/vicinity map
- north arrow
- footprint of dimensioned property lines
- existing & proposed buildings
- footprint of existing adjacent buildings
- driveway location
- parking stalls
- adjacent public streets
- easements
- setback & offset dimensions
- pond/detention location
- floodplain and/or wetland boundary
- sign location (may require additional approval)
- exterior light locations
- phasing lines
- floor area ratio
- open space ratio
- site acreage
- sidewalks/pedestrian walkways
- dumpster/recycling area location
- ground HVAC and/or utility installations
- fence location
- such other details as may be determined necessary

DETAILED ARCHITECTURAL PLAN

- architectural scale
- all building views/elevations w/scale
- detailed materials specifications
- building height dimension
- general floor plan with dimensions
- exterior building materials and colors
- dimensioned building façade sign
- exterior utility boxes
- exposed HVAC equipment
- dumpster/recycling area location and screening
- samples of building materials (for presentation to Planning Commission
- building mounted lighting fixtures
- such other details as may be determined necessary

DETAILED LANDSCAPING PLAN

- existing and proposed two-foot contour lines at the local datum (floodplain property should be identified at USGS datum)
- pond/detention location
- stormwater and erosion control devices

SIGNAGE PLAN

- scaled design drawing of freestanding and/or facade signs
- sign specifications and color (wattage, material, dimensions)

EXTERIOR LIGHTING

- light fixture design detail and specifications
- iso footcandle lighting dispersion plan

REV 10-25-2023

PROFESSIONAL SERVICES REIMBURSEMENT AGREEMENT

235 Hickory St, Pewaukee WI 53072—villagehall@villageofpewaukeewi.gov—262-691-5660

PROPERTY INFORMATION ☐

Property Address: 510 Lake St, Pewaukee, WI 53072 Tax Key: PWV 0899235001

Property Owner's Name: Pewaukee High School Phone Number: 262-695-5038

RESPONSIBLE PARTY INFORMATION - *All invoices will be mailed to this address.* ☐

Business Name: Pewaukee School District FEIN: 39-6003870

Person Responsible for Payment / Business Contact Name: John Gahan

Mailing Address: 404 Lake Street; Pewaukee, WI 53072

Responsible Party / Contact Phone Number: 262-695-5038

Responsible Party / Contact Email Address: gahajoh@pewaukeeschools.org

AGREEMENT / SIGNATURES - *Property Owner signature is required.* ☐

Pursuant to the Village of Pewaukee Code of Ordinances Sec 40.116(b), the Village Board has determined that whenever the services of the Village Attorney, Village Engineer, Village Planner, or any other of the Village's professional staff or other expert consultants are retained by the Village in order to complete a proper project review results in a charge to the Village for that professional's time and services and such service is not a service supplied to the Village as a whole, the Village Treasurer shall charge those service fees incurred by the Village to the applicant/property owner. Also, be advised that pursuant to the Village of Pewaukee Code of Ordinances, certain other fees, costs, and charges are the responsibility of the property owner or responsible party.

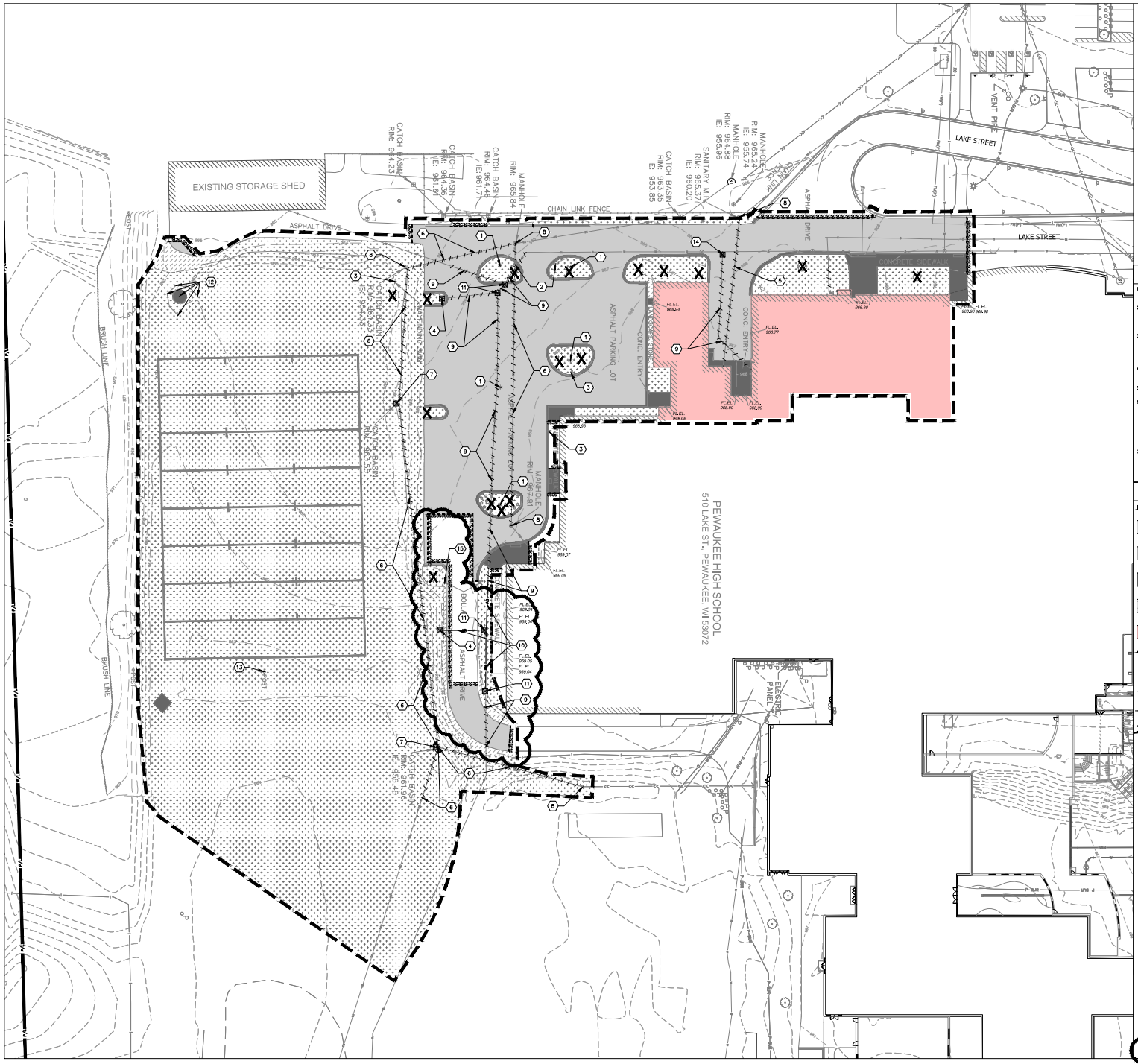
By signing this form, I, the undersigned, have been advised that pursuant to the Village of Pewaukee Code of Ordinances, if the Village Attorney, Village Engineer, Village Planner, or any other Village professional staff or other expert consultants retained by the Village in order to complete a proper project review provides services to the Village because of my activities, whether at my request or at the request of the Village, I shall be responsible for the fees incurred. In addition, I have been advised that pursuant to the Village of Pewaukee Code of Ordinances, certain other fees, costs, and charges are my responsibility.

The Village will place fees from unpaid invoices on the real estate tax bill of the property that corresponds to the incurred services.

Property Owner Signature: _____ Printed Name: John Gahan Date: 9/11/2024

Applicant Signature: _____ Printed Name: Maclain Schramm Date: 9/11/2024

For Office Use Only Staff Initials:_____ Date Received:_____



DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

DEMOLITION NOTES

1. CONSULT WITH OWNER TO DETERMINE A SAFE STORAGE LOCATION OF ITEMS SPECIFICALLY CALLED OUT TO BE SALVAGED FOR OWNER REUSE. EXERCISE CARE DURING REMOVAL AND TRANSPORT TO PREVENT DAMAGE.
2. THE UNDERGROUND AND OVERHEAD UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES, LOCAL MUNICIPALITY, PROPERTY OWNER, AND DIGGERS HOTLINE. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
3. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL APPLY FOR AND OBTAIN ALL THEIR REQUIRED PERMITS FOR THE PERFORMANCE OF THEIR WORK. CONSULT WITH AND OBTAIN FROM ENGINEER COPIES OF ENGINEERING DESIGN, ENVIRONMENTAL PERMITS, INCLUDING BUT NOT LIMITED TO WDNR, STATE OR LOCAL PLUMBING, MDOT, COUNTY, AND STORM WATER MANAGEMENT.
4. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL CONTACT DIGGER'S HOTLINE TO ALLOW THEM SUFFICIENT TIME TO LOCATE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK.
5. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL OTHER CONTRACTORS.
6. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND / OR RELOCATION / ELEVATION ADJUSTMENT OF ALL EXISTING PUBLIC OR PRIVATE UTILITIES WITHIN THE PROJECT LIMITS THAT MAY BE AFFECTED BY TOPOGRAPHICAL CHANGES, UTILITIES, OR OTHER PROPOSED CONSTRUCTION ON THE PROJECT, INCLUDING BUT NOT LIMITED TO ELECTRICAL / FIBER OPTIC / TELEPHONE / CABLE / GAS / WATER / SANITARY / STORM. DEMOLITION / RELOCATION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, LOCAL AND UTILITY OWNER REGULATIONS.
7. FOR ALL WORK, GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR REVIEWING BID DOCUMENTS, VERIFYING THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS, AND INCLUDE IN THEIR CONTRACT THE RELOCATION OF SAID UTILITIES (NOTED OR NOT ON THE BID DOCUMENTS) AS NECESSARY TO PROVIDE PROPER DEPTH/CLEARANCE PER UTILITY OWNER'S REQUIREMENTS.

KEY INDEX

- PROJECT LIMITS
- VEGETATION, TO BE REMOVED & DISPOSED OF OFFSITE // SUITABLE FOR REUSE, TOPSOIL TO BE STOCKPILED, UNUSED & UNSUITABLE TOPSOIL TO BE REMOVED OFFSITE. TOPSOIL THICKNESS MAY VARY. REFER TO GEOTECHNICAL REPORT.
- ASPHALT PAVEMENT & BASE MATERIAL TO BE REMOVED TO SUB-BASE & DISPOSED OF OFFSITE. PAVEMENT & BASE THICKNESS MAY VARY. REFER TO GEOTECHNICAL REPORT.
- CONCRETE & BASE MATERIAL TO BE REMOVED TO SUB-BASE & DISPOSED OF OFFSITE. CONCRETE & BASE THICKNESS MAY VARY. REFER TO GEOTECHNICAL REPORT.
- GRAVEL MATERIAL TO BE REMOVED & DISPOSED OF OFFSITE // SUITABLE FOR REUSE, GRAVEL TO BE STOCKPILED. UNUSED GRAVEL MATERIAL TO BE REMOVED OFFSITE. GRAVEL THICKNESS MAY VARY. REFER TO GEOTECHNICAL REPORT.
- EXISTING BUILDING & FOUNDATION TO BE RAZED. REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SCSCSCSC SAWCUT FULL DEPTH
- X TREES & STUMPS TO BE REMOVED
- DENOTES UTILITIES TO BE ABANDONED & REMOVED.
- AB DENOTES UTILITIES TO BE ABANDONED IN PLACE.
- CAUTION KNOWN UTILITY AND POTENTIAL CONFLICT EXIST
- UTILITY STRUCTURE REMOVAL/ABANDONMENT
- 1 REMOVE & DISPOSE OF EXISTING LIGHT POLES AND FOOTINGS. REFER TO SITE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- 2 REMOVE & SALVAGE EXISTING "DO NOT ENTER" SIGNS INCLUDING POSTS FOR RE-INSTALLATION IN NEW PARKING LOT. REFER TO SITE SIGNAGE & TRAFFIC CONTROL PLAN DRAWING (SHEET C103) FOR NEW LOCATIONS.
- 3 REMOVE & SALVAGE EXISTING WAY-FINDING SIGN INCLUDING POST. RETURN SIGN AND POST TO OWNER.
- 4 REMOVE, SALVAGE AND RELOCATE EXISTING FIRE HYDRANTS. REFER TO PUBLIC WATERMAIN PLAN & PROFILE DRAWINGS (SHEETS C105B & C105C) FOR NEW HYDRANT LOCATIONS.
- 5 ABANDON AND REMOVE EXISTING SANITARY SEWER PIPE.
- 6 ABANDON AND REMOVED EXISTING STORM SEWER PIPE.
- 7 ABANDON AND REMOVE EXISTING STORM SEWER STRUCTURE.
- 8 EXISTING STORM/SANITARY SEWER STRUCTURE TO REMAIN. CONTRACTOR TO PROTECT THROUGHOUT CONSTRUCTION.
- 9 ABANDON AND REMOVE EXISTING WATERMAIN PIPE.
- 10 ABANDON EXISTING WATER MAIN PIPE IN PLACE PER STATE & LOCAL CODE.
- 11 ABANDON AND REMOVE EXISTING WATER VALVE AND VALVE BOX.
- 12 REMOVE, SALVAGE AND RELOCATE EXISTING DISCUS THROWING CAGE. REFER TO SITE LAYOUT PLAN DRAWING FOR NEW LOCATION. REMOVE & DISPOSE OF ANY FOOTINGS.
- 13 REMOVE AND SALVAGE EXISTING FIELD GOAL POST. RETURN TO OWNER. REMOVE AND DISPOSE OF FOOTING.
- 14 ABANDON AND REMOVE EXISTING WATER MAIN VALVE AND VALVE BOX. CAP EAST END OF EXISTING TEE.
- 15 REMOVE & DISPOSE OF EXISTING BOLLARD

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PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/09/2024	PLAN COMMISSION SUBMITTAL
09/26/2024	PLAN REVISION 1

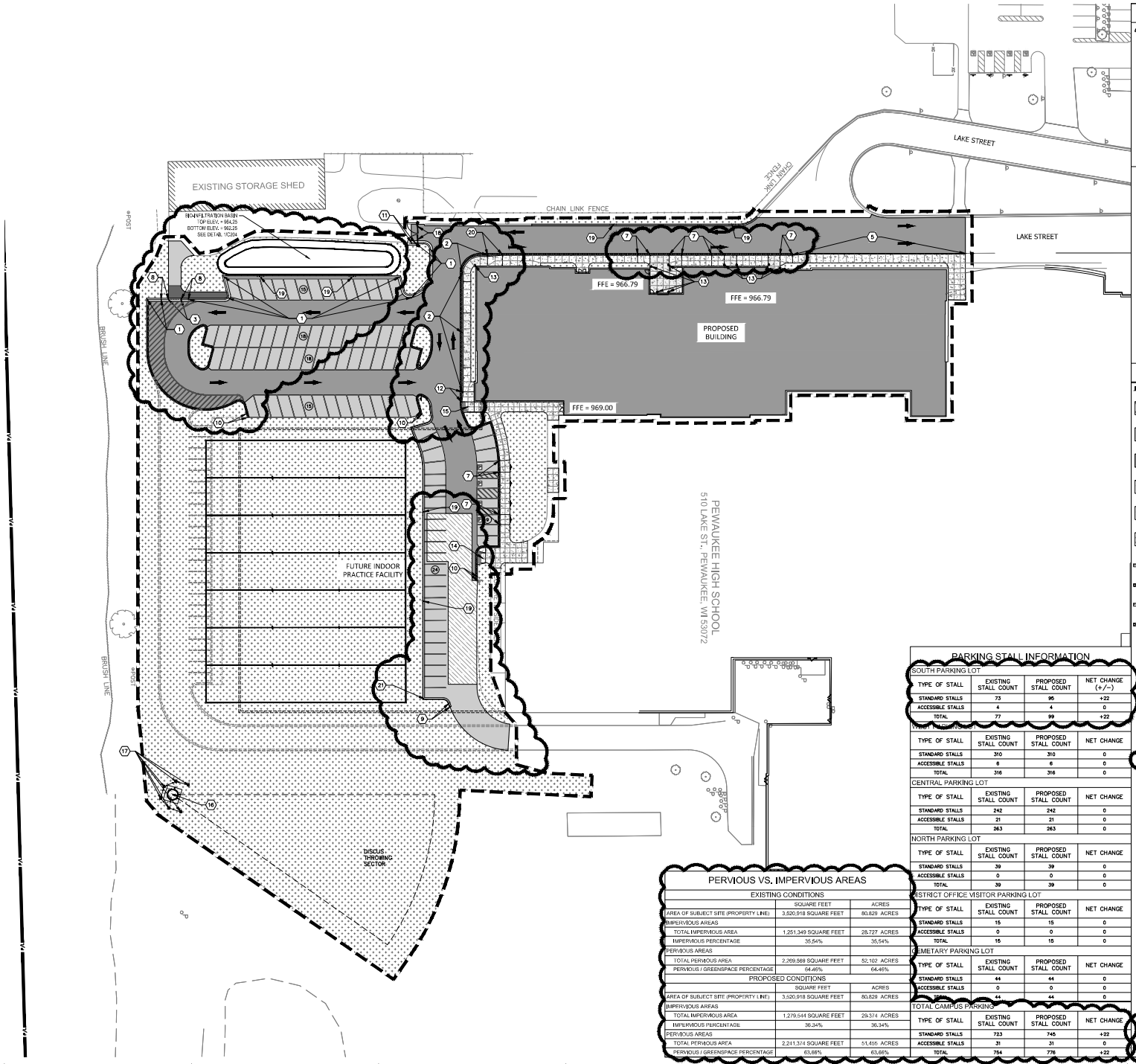
KEY PLAN

SHEET INFORMATION

PROJECT MANAGER MS
PROJECT NUMBER 323342-01

SITE DEMOLITION PLAN

C101



ASPHALT SEALCOAT NOTES

ASPHALT PAVEMENT SEALCOAT

A. BOTH THE AMBIENT AND SURFACE TEMPERATURE MUST BE A MINIMUM OF 50 DEGREES F BEFORE APPLYING SEALCOAT. DO NOT APPLY IF RAIN IS FORECASTED WITHIN 48 HOURS AFTER THE START OF APPLYING SEALCOAT.

B. THOROUGHLY CLEAN THE PAVEMENT SURFACE OF ALL DIRT, DEBRIS AND VEGETATION, USING TRUCK MOUNTED POWER SWEEPERS OR AIR BLOWERS. OIL EMULANT SHALL BE APPLIED AS REQUIRED.

C. PRIME ALL PETROLEUM STAINS WITH PETROBOND (AN ACRYLIC OIL SPOT PRIMER) BONDING AGENT. AREAS OF EXCESSIVE OIL BUILDUP WILL BE BURNED, AS REQUIRED.

D. MAJOR CRACKS, ¼ INCH AND WIDER, WILL BE FILLED WITH CRACK FILLER. (NOTE: CRACK FILLING IS NOT A SUBSTITUTION FOR THE REPAIR OF 'ALLIGATOR' OR SPIDER WEB FAILURE AREAS.)

E. APPLY FIRST COAT OF ASPHALT PAVEMENT SEALCOAT WITH BRUSH OR SQUEEGEE. ADD A MAXIMUM OF 4 LBS OF AGGREGATE (APPROVED SILICA SAND) PER GALLON OF SEALCOAT. SEALCOAT MAY BE DILUTED A MAXIMUM 20% BY VOLUME OF THE CONCENTRATED SEALCOAT WITH CLEAN POTABLE WATER. APPLY AT A RATE OF 0.10–0.12 GAL./SQ. YARD.

F. ALLOW SUFFICIENT TIME FOR FIRST COAT TO DRY BEFORE SECOND COAT IS APPLIED. APPLY SECOND COAT OF ASPHALT PAVEMENT SEALCOAT WITH A SPRAY DEVICE. ADD A MAXIMUM OF 2 LBS OF AGGREGATE (APPROVED SILICA SAND) PER GALLON OF SEALCOAT. SEALCOAT MAY BE DILUTED A MAXIMUM 20% BY VOLUME OF THE CONCENTRATED SEALCOAT WITH CLEAN POTABLE WATER. APPLY AT A RATE OF 0.08–0.10 GAL./SQ. YARD.

G. AFTER THE APPLICATION OF THE SECOND COAT, ALLOW A MINIMUM OF 24 HOURS FOR THE SEALCOAT TO CURE. VISUALLY INSPECT THE SEALCOAT TO ENSURE IT IS FULLY CURED PRIOR TO OPENING FOR TRAFFIC AND GENERAL USAGE.

Scale: 0 15 30 60
Scale: 1" = 30'

DIGGERS HOTLINE
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www.DiggersHotline.com

KEY INDEX

- PROJECT LIMITS
- AREAS DISTURBED BY CONSTRUCTION (NOT SPECIFICALLY CALLED OUT ON THE LANDSCAPE PLANS) TO BE RESTORED WITH MINIMUM 4" TOPSOIL, SEED, FERTILIZER, AND MULCH (TYP.). USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED.
- NEW ASPHALTIC CONCRETE (LIGHT DUTY) — 1/C202
- NEW ASPHALTIC CONCRETE (HEAVY DUTY) — 1/C202
- NEW CONCRETE SLAB — 2/C202, 3/C202
- NEW HEAVY DUTY CONCRETE SLAB — 2/C202, 3/C202
- RE-SEAL/RE-STRIPE EXISTING ASPHALTIC CONCRETE PAVEMENT. SEE ASPHALT SEALCOAT NOTES FOR ADDITIONAL INFORMATION.
- NEW 18" LOW-SIDE BARRIER CONCRETE CURB & GUTTER UNLESS OTHERWISE NOTED — 4/C202
- NEW 18" HIGH-SIDE BARRIER CONCRETE CURB & GUTTER UNLESS OTHERWISE NOTED — 4/C202
- NEW 18" LOW-SIDE DEPRESSED CONCRETE CURB & GUTTER UNLESS OTHERWISE NOTED — 5/C202
- NEW 18" HIGH-SIDE DEPRESSED CONCRETE CURB & GUTTER UNLESS OTHERWISE NOTED — 5/C202
- 1 NEW 31" LOW-SIDE MOUNTABLE CONCRETE CURB & GUTTER — 6/C202
- 2 NEW 31" HIGH-SIDE MOUNTABLE CONCRETE CURB & GUTTER — 6/C202
- 3 NEW 31" LOW-SIDE DEPRESSED MOUNTABLE CONCRETE CURB & GUTTER — 7/C202
- 4 NEW 31" HIGH-SIDE DEPRESSED MOUNTABLE CONCRETE CURB & GUTTER — 7/C202
- 5 NEW CONCRETE SIDEWALK WITH 6" BARRIER INTEGRAL CURB — 8/C202
- 6 NEW CONCRETE SIDEWALK WITH DEPRESSED INTEGRAL CURB — 8/C202
- 7 10' TRANSITION FROM 18" HIGH-SIDE BARRIER CURB & GUTTER TO 18" HIGH-SIDE DEPRESSED CURB & GUTTER — 4/C202, 5/C202
- 8 3' TRANSITION FROM 31" HIGH-SIDE MOUNTABLE CURB & GUTTER TO 31" LOW-SIDE DEPRESSED MOUNTABLE CURB & GUTTER — 6/C202, 7/C202
- 9 3' TRANSITION FROM 18" LOW-SIDE BARRIER CURB & GUTTER TO 18" LOW-SIDE DEPRESSED CURB & GUTTER — 4/C202, 5/C202
- 10 3' TRANSITION FROM 18" HIGH-SIDE BARRIER CURB & GUTTER TO 18" HIGH-SIDE DEPRESSED CURB & GUTTER — 4/C202, 5/C202
- 11 3' TRANSITION FROM 31" LOW-SIDE MOUNTABLE CURB & GUTTER TO 31" LOW-SIDE DEPRESSED MOUNTABLE CURB & GUTTER — 6/C202, 7/C202
- 12 8' TRANSITION FROM 31" HIGH-SIDE MOUNTABLE CURB & GUTTER TO 18" HIGH-SIDE BARRIER CURB & GUTTER — 4/C202, 6/C202
- 13 NEW 6" DIAMETER STEEL BOLLARDS — 10/C202
- 14 NEW ACCESSIBILITY RAMP WITH TRUNCATED DOME DETECTABLE WARNING FIELDS — 11/C202
- 15 NEW ACCESSIBILITY RAMP WITH TRUNCATED DOME DETECTABLE WARNING FIELDS — 12/C202
- 16 NEW CONCRETE DISCUS THROWING PAD — 1/C203
- 17 RELOCATED EXITING DISCUSS THROWING CAGE
- 18 NEW 16' WIDE SECURITY GATE — 2/C203
- 19 NEW CURB CUT INLET — 3/C203
- 20 12' TRANSITION FROM 31" HIGH-SIDE MOUNTABLE CURB & GUTTER TO 18" HIGH-SIDE BARRIER CURB & GUTTER — 4/C202, 6/C202
- 21 NEW CORNER CURB CUT INLET — 4/C204

PARKING STALL INFORMATION

SOUTH PARKING LOT

TYPE OF STALL	EXISTING STALL COUNT	PROPOSED STALL COUNT	NET CHANGE (+/−)
STANDARD STALLS	73	95	+22
ACCESSIBLE STALLS	4	4	0
TOTAL	77	99	+22

WEST PARKING LOT

TYPE OF STALL	EXISTING STALL COUNT	PROPOSED STALL COUNT	NET CHANGE
STANDARD STALLS	310	310	0
ACCESSIBLE STALLS	6	6	0
TOTAL	316	316	0

CENTRAL PARKING LOT

TYPE OF STALL	EXISTING STALL COUNT	PROPOSED STALL COUNT	NET CHANGE
STANDARD STALLS	242	242	0
ACCESSIBLE STALLS	21	21	0
TOTAL	263	263	0

NORTH PARKING LOT

TYPE OF STALL	EXISTING STALL COUNT	PROPOSED STALL COUNT	NET CHANGE
STANDARD STALLS	39	39	0
ACCESSIBLE STALLS	0	0	0
TOTAL	39	39	0

DISTRICT OFFICE VISITOR PARKING LOT

TYPE OF STALL	EXISTING STALL COUNT	PROPOSED STALL COUNT	NET CHANGE
STANDARD STALLS	15	15	0
ACCESSIBLE STALLS	0	0	0
TOTAL	15	15	0

CEMETARY PARKING LOT

TYPE OF STALL	EXISTING STALL COUNT	PROPOSED STALL COUNT	NET CHANGE
STANDARD STALLS	44	44	0
ACCESSIBLE STALLS	0	0	0
TOTAL	44	44	0

TOTAL CAMPUS PARKING

TYPE OF STALL	EXISTING STALL COUNT	PROPOSED STALL COUNT	NET CHANGE
STANDARD STALLS	723	745	+22
ACCESSIBLE STALLS	31	31	0
TOTAL	754	776	+22

PERVIOUS VS. IMPERVIOUS AREAS

EXISTING CONDITIONS	SQUARE FEET	ACRES
AREA OF SUBJECT SITE (PROPERTY LINE)	3,520,918 SQUARE FEET	80.829 ACRES
IMPERVIOUS AREAS		
TOTAL IMPERVIOUS AREA	1,251,349 SQUARE FEET	28.727 ACRES
IMPERVIOUS PERCENTAGE	35.54%	35.54%
PERVIOUS AREAS		
TOTAL PERVIOUS AREA	2,269,569 SQUARE FEET	52.102 ACRES
PERVIOUS / GREENSPACE PERCENTAGE	64.46%	64.46%
PROPOSED CONDITIONS	**SQUARE FEET**	**ACRES**
AREA OF SUBJECT SITE (PROPERTY LINE)	3,520,918 SQUARE FEET	80.829 ACRES
IMPERVIOUS AREAS		
TOTAL IMPERVIOUS AREA	1,279,544 SQUARE FEET	29.374 ACRES
IMPERVIOUS PERCENTAGE	36.34%	36.34%
PERVIOUS AREAS		
TOTAL PERVIOUS AREA	2,241,374 SQUARE FEET	51.455 ACRES
PERVIOUS / GREENSPACE PERCENTAGE	63.66%	63.66%

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PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
05/20/2024	PLAN COMMISSION SUBMITTAL
06/28/2024	PLAN REVISION 1

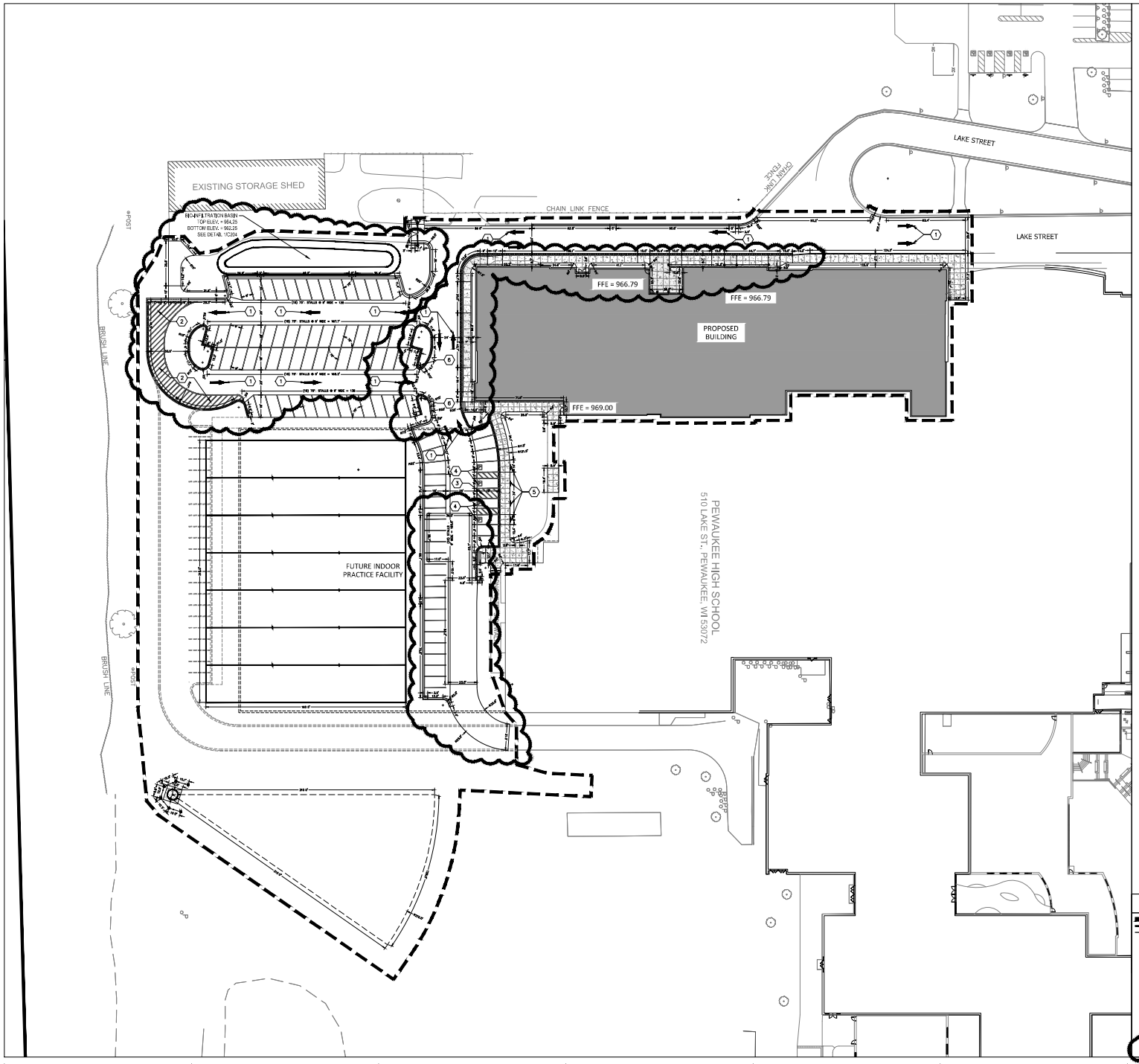
KEY PLAN

SHEET INFORMATION

PROJECT MANAGER MS
PROJECT NUMBER 323342-01

SITE LAYOUT PLAN

C102



KEY INDEX

- PROJECT LIMITS
- (1) PAVEMENT MARKING ARROWS, LATEX PAVEMENT MARKING PAINT, WHITE (SEE WDOT PAVEMENT MARKING S.D.D.)
- (2) NEW 4" WHITE PAINT FOR DIAGONALS 36" O.C.
- (3) NEW 4" WHITE PAINT FOR ACCESSIBLE PARKING STALLS WITH DIAGONALS AT 36" O.C. — 4/C204
- (4) NEW ACCESSIBLE PARKING SYMBOL — 4/C203
- (5) NEW ACCESSIBLE SIGNS — 5/C203, 6/C203
- (6) INSTALL SALVAGED "DO NOT ENTER" SIGNS.

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PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/09/2024	PLAN COMMISSION SUBMITTAL
09/26/2024	PLAN REVISION 1

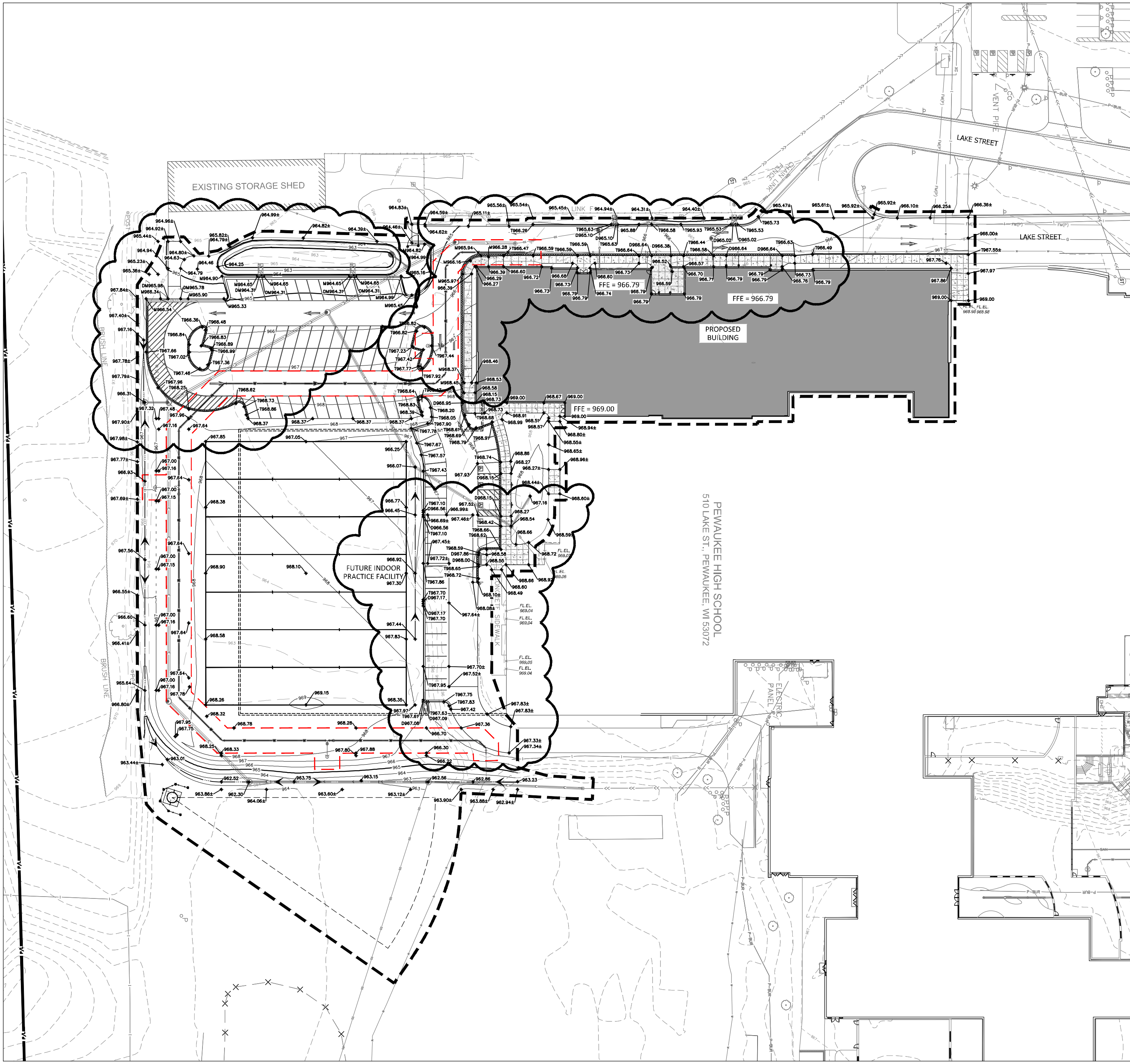
KEY PLAN

SHEET INFORMATION

PROJECT MANAGER MS
PROJECT NUMBER 323342-01

SITE SIGNAGE & TRAFFIC CONTROL PLAN

C103



Scale: 0 15 30 60
Scale: 1" = 30'

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GRADING NOTES

GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND / OR RELOCATION / ELEVATION ADJUSTMENT OF ALL EXISTING PUBLIC OR PRIVATE UTILITIES WITHIN THE PROJECT LIMITS THAT MAY BE AFFECTED BY TOPOGRAPHICAL CHANGES, UTILITIES, OR OTHER PROPOSED CONSTRUCTION ON THE PROJECT, INCLUDING BUT NOT LIMITED TO ELECTRICAL / FIBER OPTIC / TELEPHONE / CABLE / GAS / WATER / SANITARY / STORM. DEMOLITION / RELOCATION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, LOCAL, AND UTILITY OWNER REGULATIONS.

KEY INDEX

Symbol	Description
(heavy dashed line)	PROJECT LIMITS
999	EXISTING CONTOUR MINOR
999	EXISTING CONTOUR MAJOR
999	PROPOSED CONTOUR MINOR
999	PROPOSED CONTOUR MAJOR
970.00	PROPOSED SPOT GRADE
970.0±	MATCH EXISTING GRADE
T970.00	PROPOSED TOP OF CURB GRADE. GUTTER IS 6" BELOW TOP OF CURB UNLESS OTHERWISE NOTED.
T970.0±	MATCH EXISTING TOP OF CURB GRADE
D970.00	PROPOSED TOP OF DEPRESSED BARRIER CURB GRADE
M970.00	PROPOSED TOP OF MOUNTABLE CURB GRADE. GUTTER IS 4" BELOW TOP OF CURB UNLESS OTHERWISE NOTED.
DM970.00	PROPOSED TOP OF DEPRESSED MOUNTABLE CURB GRADE
	REFER TO SITE LAYOUT PLAN AND SITE DETAIL DRAWINGS FOR EXACT CURB TYPE AND PROFILE.
(arrow)	DRAINAGE SWALE

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PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
06/20/2024	PLAN COMMISSION SUBMITTAL
08/26/2024	PLAN REVISION 1

KEY PLAN

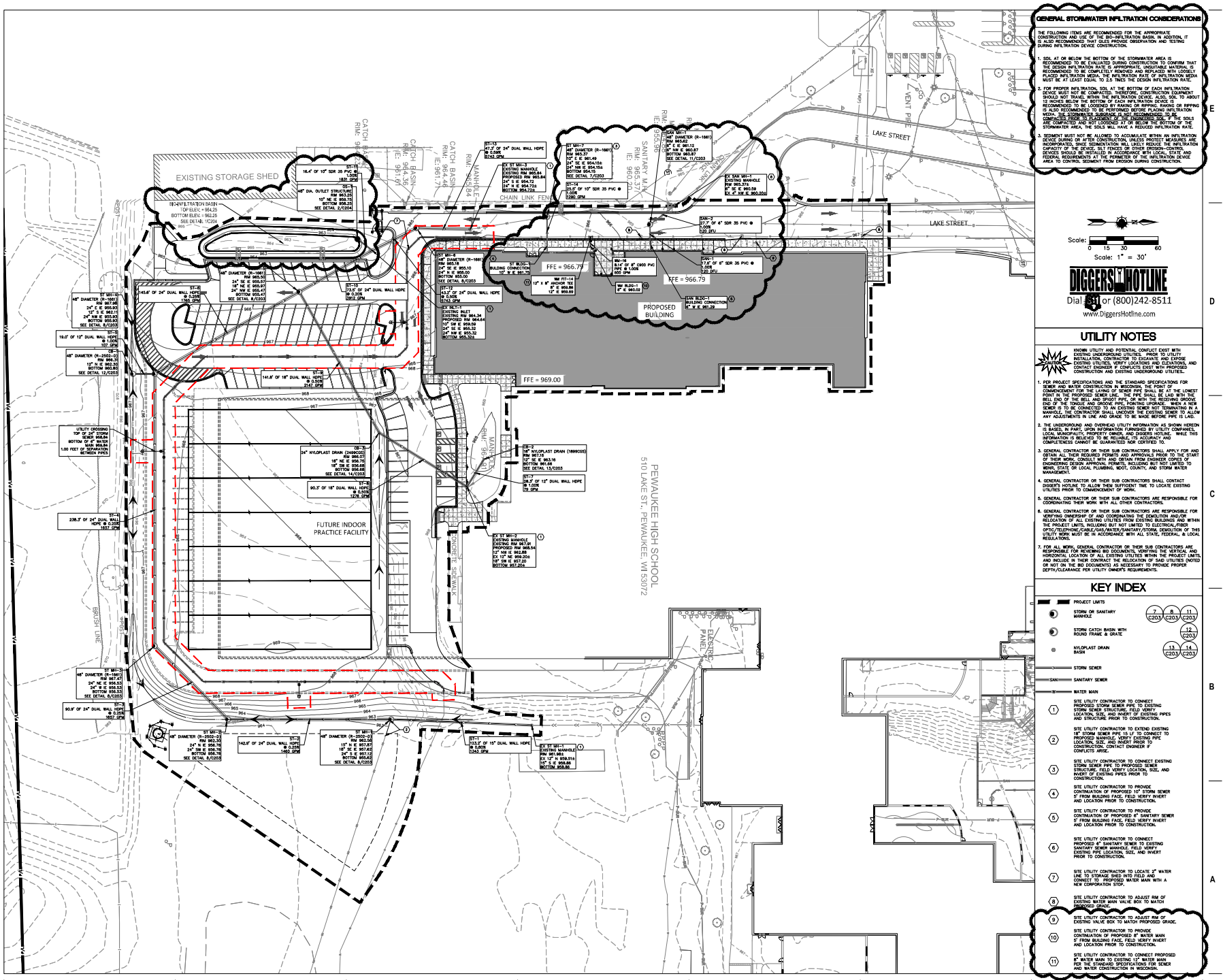
SHEET INFORMATION

PROJECT MANAGER MS

PROJECT NUMBER 323342-01

SITE GRADING PLAN

C104



GENERAL STORMWATER INFILTRATION CONSIDERATIONS

THE FOLLOWING ITEMS ARE RECOMMENDED FOR THE APPROPRIATE CONSTRUCTION AND USE OF THE BIO-INFILTRATION BASIN. IN ADDITION, IT IS ALSO RECOMMENDED THAT GLES PROVIDE OBSERVATION AND TESTING DURING INFILTRATION DEVICE CONSTRUCTION.

1. SOIL AT OR BELOW THE BOTTOM OF THE STORMWATER AREA IS RECOMMENDED TO BE EVALUATED DURING CONSTRUCTION TO CONFIRM THAT THE DESIGN INFILTRATION RATE IS APPROPRIATE. UNSUITABLE MATERIAL IS RECOMMENDED TO BE COMPLETELY REMOVED AND REPLACED WITH LOOSELY PLACED INFILTRATION MEDIA. THE INFILTRATION RATE OF INFILTRATION MEDIA MUST BE AT LEAST EQUAL TO 2.5 TIMES THE DESIGN INFILTRATION RATE.
2. FOR PROPER INFILTRATION, SOIL AT THE BOTTOM OF EACH INFILTRATION DEVICE MUST NOT BE COMPACTED. THEREFORE, CONSTRUCTION EQUIPMENT SHOULD NOT TRAVEL WITHIN THE INFILTRATION DEVICE. ALSO, SOIL TO ABOUT 12 INCHES BELOW THE BOTTOM OF EACH INFILTRATION DEVICE IS RECOMMENDED TO BE LOOSENED BY RAKING OR SIMILAR RAKING OR RIPPING IS ALSO RECOMMENDED TO BE PERFORMED BEFORE PLACING INFILTRATION MEDIA. THE STORMWATER SUBGRADE IS NOT RECOMMENDED TO BE COMPACTED PRIOR TO PLACEMENT OF THE ENGINEERED SOIL. IF THE SOILS ARE COMPACTED AND NOT LOOSENED AT OR BELOW THE BOTTOM OF THE STORMWATER AREA, THE SOILS WILL HAVE A REDUCED INFILTRATION RATE.
3. SEDIMENT MUST NOT BE ALLOWED TO ACCUMULATE WITHIN AN INFILTRATION DEVICE DURING OR AFTER CONSTRUCTION, UNLESS PROTECT MEASURES ARE INCORPORATED, SINCE SEDIMENTATION WILL LIKELY REDUCE THE INFILTRATION CAPACITY OF THE DEVICE. SILT FENCES OR OTHER EROSION-CONTROL DEVICES SHOULD BE INSTALLED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS AT THE PERIMETER OF THE INFILTRATION DEVICE AREA TO CONTROL SEDIMENT FROM EROSION DURING CONSTRUCTION.

Scale: 0 15 30 60
Scale: 1" = 30'

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

UTILITY NOTES

KNOWN UTILITY AND POTENTIAL CONFLICT EXIST WITH EXISTING UNDERGROUND UTILITIES. PRIOR TO UTILITY INSTALLATION, CONTRACTOR TO EXCAVATE AND EXPOSE EXISTING UTILITIES, VERIFY LOCATIONS AND ELEVATIONS, AND CONTACT ENGINEER IF CONFLICTS EXIST WITH PROPOSED CONSTRUCTION AND EXISTING UNDERGROUND UTILITIES.

1. PER PROJECT SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, THE POINT OF COMMENCEMENT FOR THE LAYING OF SEWER PIPE SHALL BE AT THE LOWEST POINT IN THE PROPOSED SEWER LINE. THE PIPE SHALL BE LAID WITH THE BELL END OF THE BELL AND SPIGOT PIPE, OR WITH THE RECEIVING GROOVE END OF THE TONGUE AND GROOVE PIPE, POINTING UPGRADE. WHEN A NEW SEWER IS TO BE CONNECTED TO AN EXISTING SEWER TERMINATING AT A MANHOLE, THE CONTRACTOR SHALL CONCRETE THE EXISTING SEWER TO ALLOW ANY ADJUSTMENTS IN LINE AND GRADE TO BE MADE BEFORE PIPE IS LAID.
2. THE UNDERGROUND AND OVERHEAD UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES, LOCAL MUNICIPALITY, PROPERTY OWNER, AND DIGGERS HOTLINE. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
3. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL APPLY FOR AND OBTAIN ALL THEIR REQUIRED PERMITS AND APPROVALS PRIOR TO THE START OF THEIR WORK. CONSULT WITH AND OBTAIN FROM ENGINEER COPIES OF ENGINEERING DESIGN APPROVAL PERMITS, INCLUDING BUT NOT LIMITED TO WDNR, STATE OR LOCAL PLUMBING, MDDT, COUNTY, AND STORM WATER MANAGEMENT.
4. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS SHALL CONTACT DIGGER'S HOTLINE TO ALLOW THEM SUFFICIENT TIME TO LOCATE EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK.
5. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL OTHER CONTRACTORS.
6. GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR VERIFYING OWNERSHIP OF AND COORDINATING THE DEMOLITION AND/OR RELOCATION OF ALL EXISTING UTILITIES FROM EXISTING BUILDINGS AND WITHIN THE PROJECT LIMITS, INCLUDING BUT NOT LIMITED TO ELECTRICAL/FIBER OPTIC/TELEPHONE/CABLE/GAS/WATER/SANITARY/STORM. DEMOLITION OF THIS UTILITY WORK MUST BE IN ACCORDANCE WITH ALL STATE, FEDERAL, & LOCAL REGULATIONS.
7. FOR ALL WORK, GENERAL CONTRACTOR OR THEIR SUB CONTRACTORS ARE RESPONSIBLE FOR REVIEWING BID DOCUMENTS, VERIFYING THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE PROJECT LIMITS, AND INCLUDE IN THEIR CONTRACT THE RELOCATION OF SAID UTILITIES NOTED OR NOT ON THE BID DOCUMENTS AS NECESSARY TO PROVIDE PROPER DEPTH/CLEARANCE PER UTILITY OWNER'S REQUIREMENTS.

KEY INDEX

- PROJECT LIMITS
- STORM OR SANITARY MANHOLE (7 C203, 8 C203, 11 C203)
- STORM CATCH BASIN WITH ROUND FRAME & GRATE (12 C203)
- NYLOPLAST DRAIN BASIN (13 C203, 14 C203)
- STORM SEWER
- SANITARY SEWER
- WATER MAIN

1. SITE UTILITY CONTRACTOR TO CONNECT PROPOSED STORM SEWER PIPE TO EXISTING STORM SEWER STRUCTURE. FIELD VERIFY LOCATION, SIZE, AND INVERT OF EXISTING PIPES AND STRUCTURE PRIOR TO CONSTRUCTION.
2. SITE UTILITY CONTRACTOR TO EXTEND EXISTING 18" STORM SEWER PIPE 15 LF TO CONNECT TO PROPOSED MANHOLE. VERIFY EXISTING PIPE LOCATION, SIZE, AND INVERT PRIOR TO CONSTRUCTION. CONTACT ENGINEER IF CONFLICTS ARISE.
3. SITE UTILITY CONTRACTOR TO CONNECT EXISTING STORM SEWER PIPE TO PROPOSED SEWER STRUCTURE. FIELD VERIFY LOCATION, SIZE, AND INVERT OF EXISTING PIPES PRIOR TO CONSTRUCTION.
4. SITE UTILITY CONTRACTOR TO PROVIDE CONTINUATION OF PROPOSED 15" STORM SEWER 5' FROM BUILDING FACE. FIELD VERIFY INVERT AND LOCATION PRIOR TO CONSTRUCTION.
5. SITE UTILITY CONTRACTOR TO PROVIDE CONTINUATION OF PROPOSED 6" SANITARY SEWER 5' FROM BUILDING FACE. FIELD VERIFY INVERT AND LOCATION PRIOR TO CONSTRUCTION.
6. SITE UTILITY CONTRACTOR TO CONNECT PROPOSED 6" SANITARY SEWER TO EXISTING SANITARY SEWER MANHOLE. FIELD VERIFY EXISTING PIPE LOCATION, SIZE, AND INVERT PRIOR TO CONSTRUCTION.
7. SITE UTILITY CONTRACTOR TO LOCATE 2" WATER LINE TO STORAGE SHED INTO THIS PLAN AND CONNECT TO PROPOSED WATER MAIN WITH A NEW CORPORATION STOP.
8. SITE UTILITY CONTRACTOR TO ADJUST RIM OF EXISTING WATER MAIN VALVE BOX TO MATCH PROPOSED GRADE.
9. SITE UTILITY CONTRACTOR TO ADJUST RIM OF EXISTING VALVE BOX TO MATCH PROPOSED GRADE.
10. SITE UTILITY CONTRACTOR TO PROVIDE CONTINUATION OF PROPOSED 8" WATER MAIN 5' FROM BUILDING FACE. FIELD VERIFY INVERT AND LOCATION PRIOR TO CONSTRUCTION.
11. SITE UTILITY CONTRACTOR TO CONNECT PROPOSED 8" WATER MAIN TO EXISTING 12" WATER MAIN PER THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN.

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PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/09/2024	PLAN COMMISSION SUBMITTAL
09/26/2024	PLAN REVISION 1

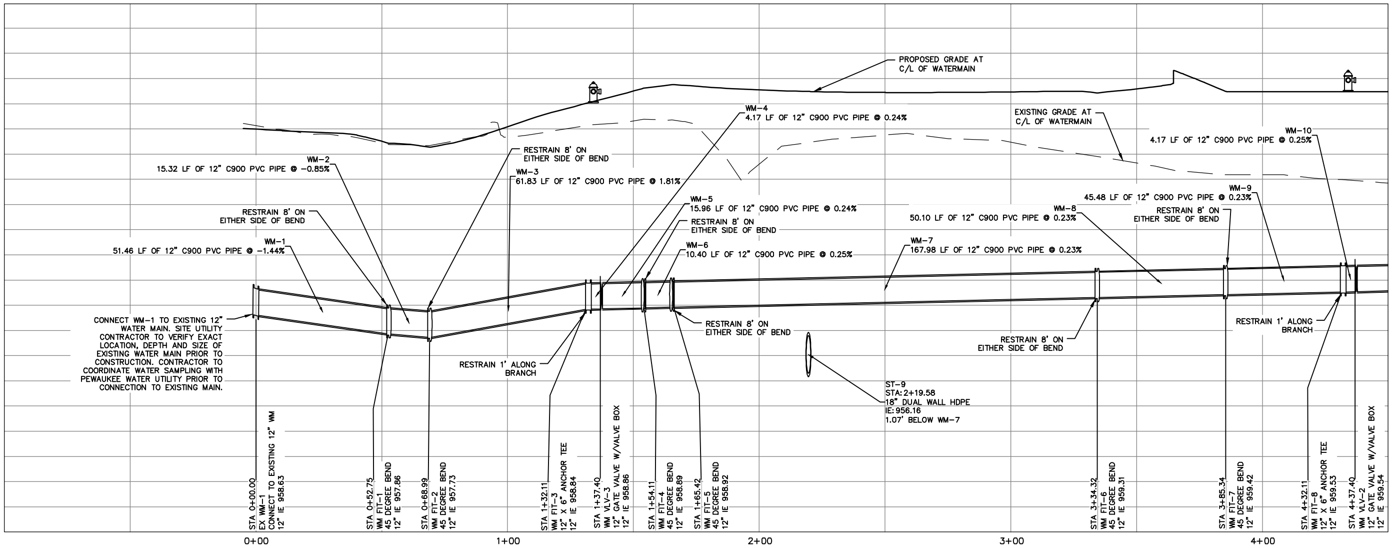
KEY PLAN

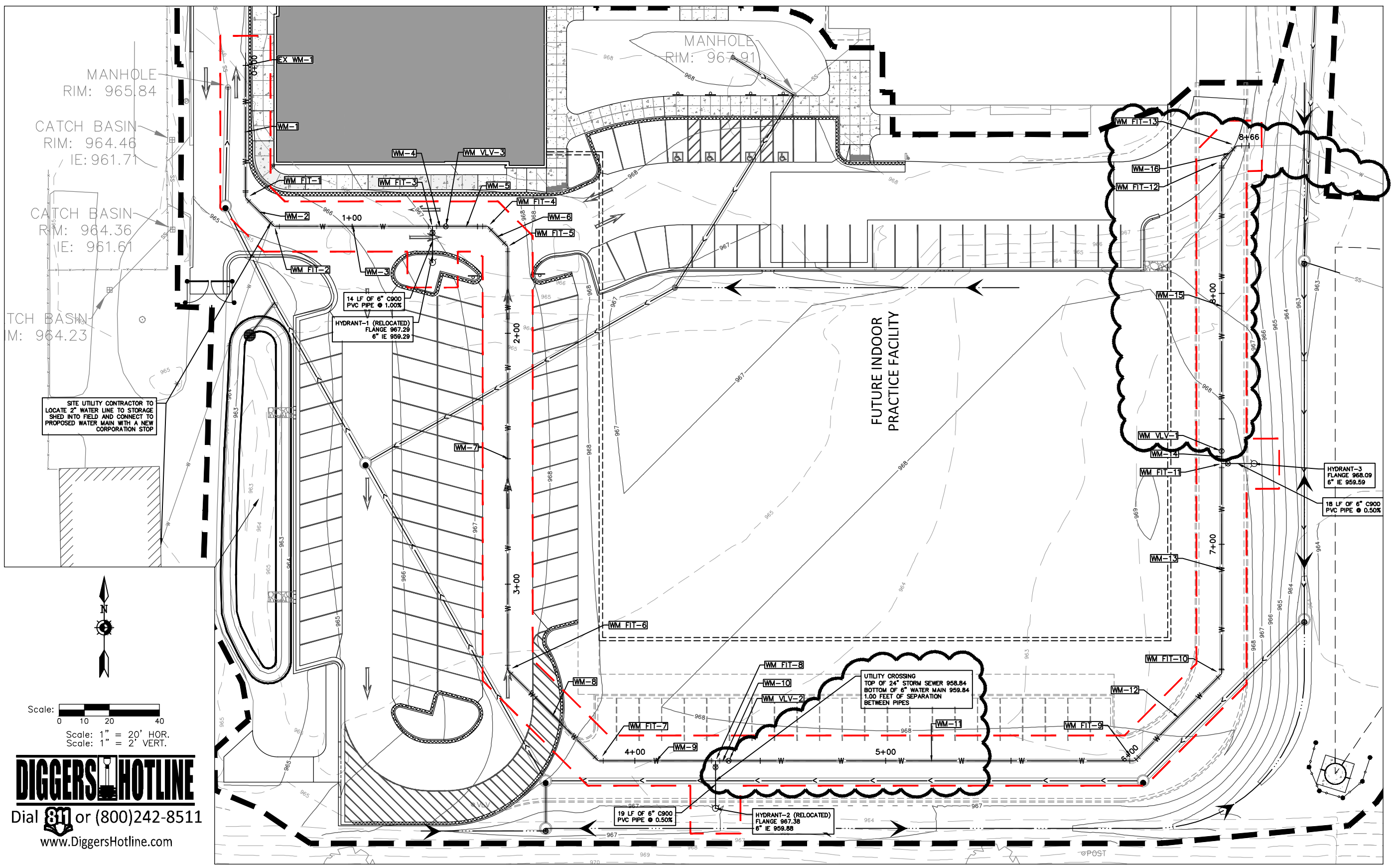
SHEET INFORMATION

PROJECT MANAGER MS
PROJECT NUMBER 323342-01

SITE UTILITY PLAN

C105A





1 2 3 4 5 6 7

GENERAL NOTES

1. ALL WATER MAIN MATERIALS, INSTALLATION, CONSTRUCTION, AND TESTING SHALL BE DONE PER APPLICABLE SECTIONS OF THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, WISCONSIN ADMINISTRATION PLUMBING CODE, AND THE VILLAGE OF PEWAUKEE AND PEWAUKEE WATER UTILITY STANDARDS.
2. CONTRACTOR SHALL COORDINATE WITH PEWAUKEE WATER UTILITY FOR ALL CONSTRUCTION INSPECTION 72 HOURS PRIOR TO COMMENCING WORK.
3. PROPOSED WATER MAIN SHALL REMAIN ISOLATED FROM EXISTING WATER MAIN UNTIL PROPOSED WATER MAIN HAS PASSED ALL REQUIRED TESTS.
4. ALL WATER MAIN AND SERVICES ARE TO BE BEDDED AND COVERED WITH STONE CHIPS PER SWS 8.43.2(A), AND BACKFILLED WITH MECHANICALLY COMPACTED GRANULAR BACKFILL PER SWS 8.43.4 IN PAVED AREAS/SHOULDERS AND WITHIN 5 FEET OF THE PAVED/SHOULDER AREAS. SPOIL BACKFILL WILL BE ALLOWED IN NON-PAVEMENT AND NON-SHOULDERED AREAS. SLURRY BACKFILL REQUIRED IN EXISTING PAVED AREAS.
6. PIPE MATERIAL SHALL BE PVC MEETING THE FOLLOWING: FOR 4"-12" DIAMETER MAIN, AWWA C900, CLASS 150 WITH DR 18 OR LESS. FOR 6" DIAMETER HYDRANT LATERALS, AWWA C900, CLASS 200 WITH DR 18 OR LESS.
7. CONTRACTOR SHALL PROVIDE DOUBLE POLYWRAPPING AROUND ALL VALVE, TEES, AND FITTINGS.
8. RESTRAIN ALL VALVES, FITTINGS, BENDS, REDUCERS, AND DEAD ENDS AT THE PIPE CONNECTION.
9. HYDRANTS SHALL BE FULLY RESTRAINED. ALL HYDRANT LEADS SHALL BE RESTRAINED WITH CONCRETE BUTTRESS AT TEE AND HYDRANT SHOE.
10. ALL STATIONING ALONG CENTERLINE OF WATER MAIN.
11. CONTRACTOR SHALL TEST WATER MAIN MAINLINE AND LATERAL TRACER WIRE TRACEABILITY OF THE ENTIRE WATER MAIN SYSTEM INSTALLED DURING THE PROJECT.

UTILITY NOTES

PROJECT LIMITS

20' PROPOSED UTILITY EASEMENT

CAUTION — KNOWN UTILITY AND POTENTIAL CONFLICT EXIST WITH EXISTING UNDERGROUND UTILITIES. PRIOR TO UTILITY INSTALLATION, CONTRACTOR TO EXCAVATE AND EXPOSE EXISTING UTILITIES, VERIFY LOCATIONS AND ELEVATIONS, AND CONTACT ENGINEER IF CONFLICTS EXIST WITH PROPOSED CONSTRUCTION AND EXISTING UNDERGROUND UTILITIES..

1. PER PROJECT SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, THE POINT OF COMMENCEMENT FOR THE LAYING OF SEWER PIPE SHALL BE AT THE LOWEST POINT IN THE PROPOSED SEWER LINE. THE PIPE SHALL BE LAID WITH THE BELL END OF THE BELL AND SPIGOT PIPE, OR WITH THE RECEIVING GROOVE END OF THE TONGUE AND GROOVE PIPE, POINTING UPGRADE. WHEN A NEW SEWER IS TO BE CONNECTED TO AN EXISTING SEWER NOT TERMINATING IN A MANHOLE, THE CONTRACTOR SHALL UNCOVER THE EXISTING SEWER TO ALLOW ANY ADJUSTMENTS IN LINE AND GRADE TO BE MADE BEFORE PIPE IS LAID.
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PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
06/20/2024	PLAN COMMISSION SUBMITTAL
08/26/2024	PLAN REVISION 1

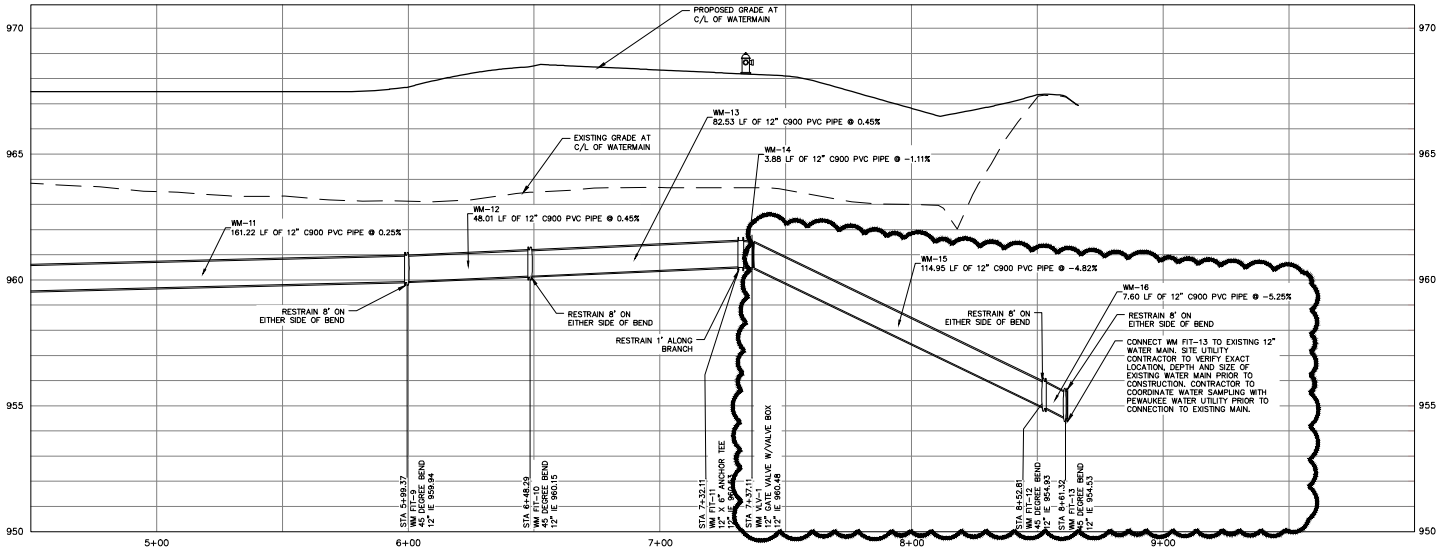
KEY PLAN

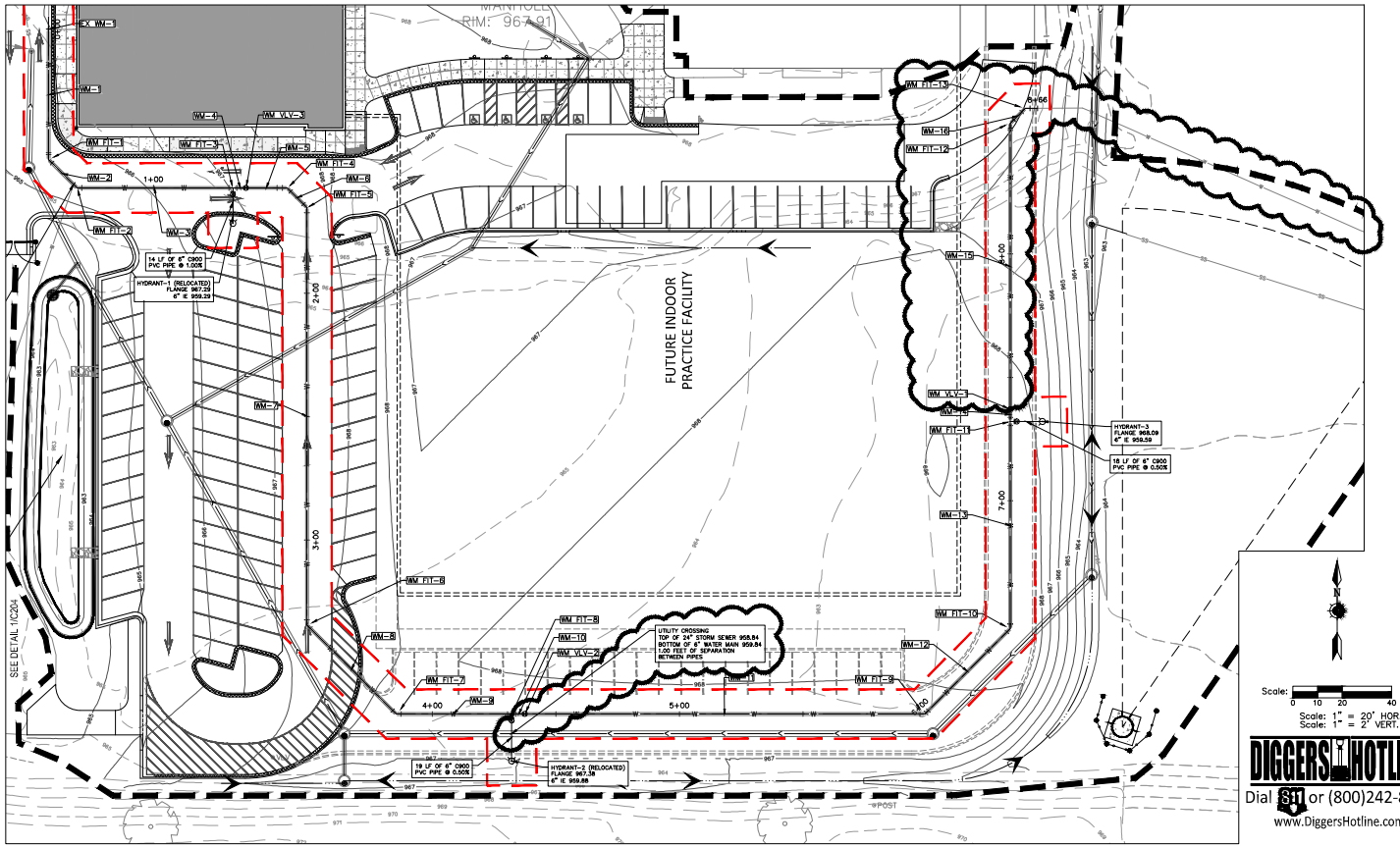
SHEET INFORMATION

PROJECT MANAGER MS
PROJECT NUMBER 323342-01

PUBLIC WATERMAIN PLAN & PROFILE
STA. 0+00 TO STA. 4+50

C105B





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- UTILITY PLUG

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PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/09/2024	PLAN COMMISSION SUBMITTAL
09/26/2024	PLAN REVISION 1

KEY PLAN

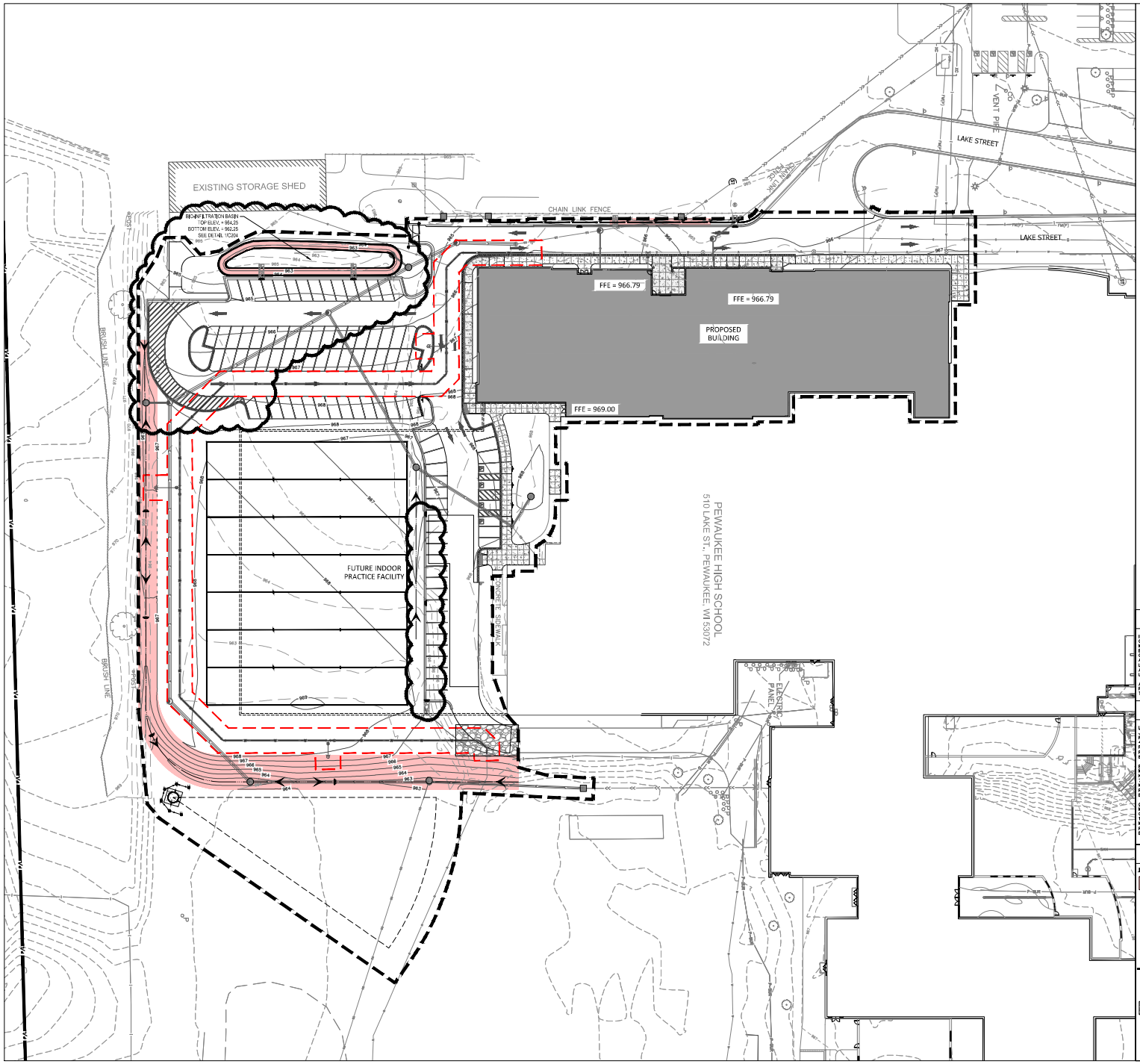
SHEET INFORMATION

PROJECT MANAGER MS

PROJECT NUMBER 323342-01

PUBLIC WATERMAIN PLAN & PROFILE
STA. 4+50 TO STA. 8+61.32

C105C



Scale: 0 15 30 60
Scale: 1" = 30'

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

EROSION NOTES

INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 0.50 INCH OR GREATER. IN ADDITION THE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE ALONG WITH DATE, TIME OF INSPECTION AND WEATHER CONDITIONS IN A DAILY LOG BOOK. THE DAILY LOG BOOK, WEEKLY / 0.50 INCH PRECIPITATION REPORTS, AND COPIES OF THE NOI AND SWPPP SHALL BE KEPT IN AN ACCESSIBLE LOCATION, LIKE A MAILBOX, WITHIN THE STAGING AREA.

AT ABSOLUTELY NO TIME MAY CONSTRUCTION EQUIPMENT, DEBRIS, FILL, ETC. BE PLACED WITHIN WETLANDS, WATERWAYS OR FLOOD PLAINS UNLESS IDENTIFIED IN THE PLANS.

POINTS OF CONTACT

LAND OWNER:
JOHN GAHAN – ASSISTANT SUPERINTENDENT/CFO
PEWAUKEE SCHOOL DISTRICT
404 LAKE STREET
PEWAUKEE, WI 53072
PHONE: (262) 696-5038
EMAIL: gahajo@pewaukeeschools.org

PROJECT ENGINEER:
MICHAEL J. FROEHLICH, P.E.
KAPUR & ASSOCIATES, INC.
788 NORTH JEFFERSON STREET, SUITE 900
MILWAUKEE, WI 53202
PHONE: (414) 751-7245
EMAIL: mfroehlich@kapurinc.com

CONSTRUCTION MANAGER:
MICHAEL DIETRICH – SENIOR PROJECT MANAGER
CG SCHMIDT CONSTRUCTION
11777 WEST LAKE PARK DRIVE
MILWAUKEE, WI 53224
PHONE (414) 758-5861
EMAIL: mike.dietrich@cgschmidt.com

KEY INDEX

- PROJECT LIMITS
- INSTALL EROSION MAT ON ALL SLOPES GREATER THAN 4:1 AND ALL DRAINAGE SWALES
- USE CLASS I, TYPE A FROM WISDOT PRODUCT APPROVED LIST FOR ALL SIDE SLOPES
- USE CLASS II, TYPE B FOR ALL DRAINAGE SWALES. INSTALL EROSION MAT ON THE BOTTOM OF AND A MINIMUM OF 2 FEET VERTICALLY UP THE SIDE SLOPES OF ALL DRAINAGE SWALES. CLASS I, TYPE A MAY BE USED FOR THE REMAINDER OF THE SIDE SLOPES IN DRAINAGE SWALES EXCEEDING 2 FEET VERTICALLY.
- SF — FILTER FABRIC FENCE (1/C201)
- TRIANGULAR SILT DIKES (3/C201)
- STONE TRACKING PAD REQUIRED, LOCATION TO BE DETERMINED BY SELECTED CONTRACTOR'S APPROVED WORK PLAN. (2/C201)
- DESIGNATES PROPOSED INLETS THAT MUST BE PROTECTED AFTER THEY HAVE BEEN CONSTRUCTED. (4/C201)
- DESIGNATES EXISTING INLETS THAT MUST BE PROTECTED (4/C201)

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KEY PLAN

SHEET INFORMATION

PROJECT MANAGER MS
PROJECT NUMBER 323342-01

SITE EROSION CONTROL PLAN

C106

EROSION CONTROL MEASURES

1. CONTRACTOR TO INSTALL AND MAINTAIN EROSION CONTROL MEASURES AS INDICATED ON THIS PLAN AND PER THE LATEST WDNR TECHNICAL STANDARDS. TECHNICAL STANDARDS MAY BE VIEWED ONLINE AT: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html

2. INLETS AND CATCH BASINS SHALL BE PROTECTED WITH INLET FILTERS THAT ARE PHASED IN WITH CONSTRUCTION TO REDUCE SEDIMENT FROM ENTERING THESE AREAS PER WDNR TECHNICAL STANDARD 1060 AS FOLLOWS:

   ALL FABRIC BARRIERS SELECTED FOR INLET/CATCH BASIN PROTECTION DEVICES SHALL BE SELECTED FROM THE LIST OF APPROVED FABRICS CERTIFIED FOR INLET PROTECTION, GEOTEXTILE FABRIC, TYPE FF IN THE CURRENT EDITION OF THE WIscDOT PRODUCT ACCEPTABILITY LIST, TO OBTAIN THE PAL, PLEASE REFER TO THIS WEBSITE: http://wisconsindot.gov/Documents/doing-bus/eng-consultants/cnslt-rsrces/tools/pal/pal-7-14.pdf

   A. INLET PROTECTION SHALL BE AT A MINIMUM INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF 5/64 INCH OR GREATER DURING A 24-HOUR PERIOD.
   B. PLACEMENT OF SPOIL MATERIAL, DEBRIS, SOILS, ETC. ON TOP OF INLETS/CATCH BASINS, EVEN IF TEMPORARY, IS STRICTLY DISCOURAGED AND PROHIBITED.
   C. SEDIMENT DEPOSITS SHALL BE REMOVED AND THE INLET PROTECTION DEVICE RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED BETWEEN 1/3 TO 5/64 THE DESIGN DEPTH OF THE DEVICE FOR TYPES A-C, WHEN SEDIMENT IS WITHIN 6" OF THE BOTTOM OF THE OVERFLOW HOLE FOR TYPE D, OR WHEN THE DEVICE IS NO LONGER FUNCTIONING PER MANUFACTURER'S SPECIFICATIONS. ALL SEDIMENT COLLECTED SHALL BE PROPERLY DISPOSED OF TO PREVENT DISCHARGE INTO AREA WATERWAYS AND WETLANDS.
   D. DUE CARE SHALL BE TAKEN TO ENSURE SEDIMENT DOES NOT FALL INTO THE INLETS/CATCH BASINS AND IMPEDE THE INTENDED FUNCTION OF THE DEVICE. ANY MATERIAL FALLING INTO THE INLET/CATCH BASIN SHALL BE REMOVED AND PROPERLY DISPOSED OF PER NOTE C ABOVE.
   E. INLET FILTERS MAY BE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF CONSTRUCTION, HAULING OR MOVEMENT OF CONSTRUCTION EQUIPMENT THROUGHOUT THE SITE, AND ONCE THE SITE IS ADEQUATELY STABILIZED, UNLESS AS OTHERWISE NOTIFIED BY THE WDNR.

3. A TRACKING PAD SHALL BE INSTALLED AS SHOWN ON THE PLAN SHEET PRIOR TO THE START OF CONSTRUCTION TO REDUCE OFF-SITE SEDIMENTATION BY ELIMINATING THE TRACKING OF SEDIMENT FROM THE SITE PER WDNR TECHNICAL STANDARD 1057 AS FOLLOWS:
   A. AGGREGATE USED FOR TRACKING PADS SHALL BE 3 TO 6 INCH CLEAR OR WASHED STONE. ALL MATERIAL TO BE RETAINED BY 3 INCH SIEVE.
   B. THE AGGREGATE SHALL BE PLACED IN A LAYER OF AT LEAST 12 INCHES THICK. ON SITES WITH A HIGH WATER TABLE, OR WHERE SATURATED CONDITIONS ARE EXPECTED, TRACKING PADS WILL BE UNDERLAIN WITH WIsDOT TYPE R GEOTEXTILE FABRIC.
   C. THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT (MIN. 15 FEET WIDE) AND BE AT LEAST 50 FEET LONG.
   D. VEHICLES TRAVELING ACROSS THE TRACKING PAD SHALL MAINTAIN A SLOW CONSTANT SPEED.
   E. ANY SEDIMENT OR ROCK ACCUMULATION ONTO LOCAL ROADWAYS SHALL BE REMOVED BY STREET CLEANING, NOT FLUSHING BEFORE THE END OF EACH WORKING DAY.
   F. THE TRACKING PAD SHALL, AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF 5/64 INCH OF RAIN OR MORE DURING A 24-HOUR PERIOD.
   G. THE TRACKING PAD PERFORMANCE SHALL BE MAINTAINED AT A MINIMUM OF 12" BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE.

4. THE CONSTRUCTION SITE PERIMETER AND TOPSOIL STOCKPILE AREA SHALL BE PROTECTED WITH SILT FENCE AS SHOWN ON THE PLAN SHEET PRIOR TO THE START OF CONSTRUCTION TO INTERCEPT AND REDUCE THE FLOW OF SEDIMENT-LADEN SHEET FLOW RUNOFF FROM THE CONSTRUCTION SITE PER WDNR TECHNICAL STANDARD 1056 AS FOLLOWS:
   A. SILT FENCE ENDS SHALL BE EXTENDED UPSLOPE TO PREVENT WATER FROM FLOWING AROUND THE ENDS OF THE FENCE AS SHOWN ON THE PLAN SHEET.
   B. INSTALLED SILT FENCE SHALL BE A MINIMUM 14 INCHES HIGH AND SHALL NOT EXCEED 28 INCHES IN HEIGHT MEASURED FROM THE INSTALLED GROUND ELEVATION.
   C. SILT FENCE SHALL BE SUPPORTED BY EITHER STEEL OR WOOD SUPPORT POSTS.
   D. THE MAXIMUM SPACING OF POSTS FOR NONWOVEN SILT FENCE SHALL BE 3 FEET OR FOR WOVEN FABRIC 8 FEET.
   E. SILT FENCE SHALL HAVE A SUPPORT CORD AT THE TOP OF THE FENCE.
   F. WHERE JOINTS ARE NEEDED, EACH END OF THE FABRIC SHALL BE SECURELY FASTENED TO A POST. THE POSTS SHALL BE WRAPPED AROUND EACH OTHER TO PRODUCE A STABLE AND SECURE JOINT OR SHALL BE OVERLAPPED THE DISTANCE BETWEEN TWO POSTS.
   G. A MINIMUM OF 20 INCHES OF THE POSTS SHALL EXTEND INTO THE GROUND AFTER INSTALLATION.
   H. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8 INCHES OF THE FABRIC IN A 4 INCH WIDE BY 6 INCH DEEP TRENCH, OR 6 INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. THE TRENCH SHALL BE BACKFILLED AND COMPACTED. TRENCHES SHALL NOT BE EXCAVATED ANY WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
   I. ON THE TERMINAL ENDS OF THE SILT FENCE THE FABRIC SHALL BE WRAPPED AROUND THE POST SUCH THAT THE STAPLES ARE NOT VISIBLE.
   J. GEOTEXTILE FABRIC SPECIFICATIONS SHALL MEET VALUES ESTABLISHED IN TECHNICAL STANDARD 1056.
   K. SILT FENCE SHALL BE REMOVED ONCE THE SITE IS ADEQUATELY STABILIZED.
   L. WHEN PLACING SILT FENCE NEAR TREES, CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO THE ROOT SYSTEM BY AVOIDING COMPACTION AND ROOT CUTTING WITHIN A RADIUS OF 1.5 FEET MULTIPLIED BY THE INCH DIAMETER OF THE TREE.
   M. THE CONTRACTOR MAY FURTHER STRENGTHEN THE SILT FENCE BY USING HAY BALES ON THE DOWN SLOPE SIDE AS NEEDED.
   N. SILT FENCE SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 5/64 INCH OF RAIN OR MORE DURING A 24 HOUR PERIOD.
   O. DAMAGED OR DECOMPOSED SILT FENCE, UNDERCUTTING, OR FLOW CHANNELS AROUND THE END OF BARRIERS SHALL BE REPAIRED OR CORRECTED.
   P. SEDIMENT SHALL BE PROPERLY DISPOSED OF ONCE THE DEPOSITS REACH 5/64 THE HEIGHT OF THE FENCE TO PREVENT DISCHARGE INTO AREA WATERWAYS AND WETLANDS.

5. SEEDING AND MULCHING TECHNIQUES SHALL BE USED ON AREAS OF EXPOSED SOIL WHERE THE ESTABLISHMENT OF VEGETATION IS DESIRED. TEMPORARY SEEDING APPLIES TO DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND-DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 CALENDAR DAYS, REQUIRING VEGETATIVE COVER FOR LESS THAN ONE YEAR. SEED AND MULCH SHALL BE UTILIZED THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH TEMPORARY VEGETATION TO HELP REDUCE EROSION PER WDNR TECHNICAL STANDARDS 1059 AND 1058 RESPECTIVELY AS FOLLOWS:
   A. TEMPORARY SEEDING REQUIRES A SEEDBED OF LOOSE SOIL TO A MINIMUM DEPTH OF 2 INCHES.
   B. FERTILIZER APPLICATION IS NOT GENERALLY REQUIRED FOR TEMPORARY SEEDING. HOWEVER, ANY APPLICATION OF FERTILIZER OR LIME SHALL BE BASED ON SOIL TESTING.
   C. THE SOIL SHALL HAVE A PH RANGE OF 5.5 TO 8.0.
   D. ALL SEED SHALL CONFORM TO THE REQUIREMENTS OF THE WISCONSIN STATE STATUTES AND OF THE ADMINISTRATIVE CODE CHAPTER ATCP 20.01 REGARDING NOXIOUS WEED SEED CONTENT AND LABELING.
   E. SEED SHALL NOT BE USED LATER THAN ONE YEAR AFTER THE TEST DATE ON THE LABEL.
   F. IN THE SUMMER-SPRING, CONTRACTOR SHALL USE OATS APPLIED AT 131 LBS/ACRE FOR TEMPORARY SEEDING PURPOSES. IN THE FALL THE CONTRACTOR SHALL USE ANNUAL RYEGRASS APPLIED AT 80 LBS/ACRE OR WINTER WHEAT OR CEREAL RYE APPLIED AT 131 LBS/ACRE. THE CONTRACTOR SHALL USE STRAW MULCH APPLIED AT 1.5 TONS/ACRE. DORMANT SEED SHALL BE USED WHEN SOIL TEMPERATURE IS CONSISTENTLY BELOW 53 DEGREES FAHRENHEIT (TYPICALLY NOV. 1 UNTIL SNOW COVER ANNUALLY). NEVER PLACE SEED ON TOP OF SNOW. IF COVER IS NEEDED AFTER SNOW FALL, CONTRACTOR MAY CHOOSE TO USE A DRY, NONTOXIC TYPE B SOIL STABILIZER PER MANUFACTURER'S SPECIFICATIONS AS REQUIRED BY THE WDNR.
   G. SEEDING SHALL NOT TAKE PLACE WHEN THE SOIL IS TOO WET.
   H. CONTRACTOR MAY CONSIDER WATERING TO HELP ESTABLISH THE SEED. WATER APPLICATION RATES SHALL BE CONTROLLED TO HELP PREVENT RUNOFF AND EROSION.
   I. DURING CONSTRUCTION, AREAS THAT HAVE BEEN SEEDED AND MULCHED SHALL AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 5/64 INCH OF RAIN OR MORE DURING A 24 HOUR PERIOD. INSPECT WEEKLY DURING THE GROWING SEASON UNTIL VEGETATION IS DENSELY ESTABLISHED OR THE SOD IS LAID. REPAIR AND RESEED AREAS THAT HAVE EROSION DAMAGE AS NECESSARY.
   J. CONTRACTOR IS TO LIMIT VEHICLE TRAFFIC AND OTHER FORMS OF COMPACTION IN AREAS THAT ARE SEEDED AS MUCH AS POSSIBLE. RE-SEED DRIVEN OVER AREAS AS NEEDED.
   K. MULCH SHOULD BE PLACED WITHIN 24 HOURS OF SEEDING.
   L. MULCHING OPERATIONS SHALL NOT TAKE PLACE DURING PERIODS OF EXCESSIVELY HIGH WINDS THAT WOULD PRECLUDE THE PROPER PLACEMENT OF MULCH.
   M. MULCH THAT IS DISPLACED SHALL BE REAPPLIED AND PROPERLY ANCHORED. MAINTENANCE SHALL BE COMPLETED AS SOON AS POSSIBLE WITH CONSIDERATION TO SITE CONDITIONS.
   N. WHEN CHANNEL EROSION MAT IS USED WITHIN CONSTRUCTION SITE DIVERSION AREAS, TECHNICAL STANDARDS 1053 AND 1066 SHALL BE FOLLOWED.
   O. WHEN NON-CHANNEL EROSION MAT IS USED TECHNICAL STANDARD 1052 SHALL BE FOLLOWED.
   P. DEPENDING ON DURATION OF CONSTRUCTION, THE CONTRACTOR MAY NEED TO RE-SEED AND RE-STABILIZE THE TOPSOIL STOCKPILE AS NECESSARY TO DISCOURAGE SEDIMENT AND EROSION.

6. A COPY OF EROSION CONTROL INSPECTION REPORTS AND THE APPROVED EROSION CONTROL PLANS SHALL BE KEPT ON SITE.

7. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL PRACTICES BY THE END OF EACH WORKDAY.

8. LOCAL ROADS SHALL BE CLEAN BY THE END OF EACH WORKDAY. CONTRACTOR SHALL HAVE LOCAL ROADS SWEPT WHERE SEDIMENT ACCUMULATES.

EROSION CONTROL OPERATION SEQUENCE + SCHEDULE

AFTER BIDS ARE RECEIVED AND A MASS GRADING CONTRACTOR IS SELECTED, A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE WITH ALL RELEVANT PARTIES IN ATTENDANCE.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL SILT FENCES, STONE TRACKING PADS, INLET PROTECTION, SEEDING, EROSION MATTING, AND OTHER EROSION CONTROL MEASURES. GENERAL CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING, OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT THAT PRODUCES ½-INCH OF RAIN OR MORE DURING A 24-HOUR PERIOD. IN ADDITION, THE ACTIVE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION, AND WEATHER CONDITIONS IN A DAILY LOG BOOK.

ALL REGULATORY PERMITS, PROJECT PLANS, AND INSPECTION LOGS SHALL BE KEPT ON SITE IN AN ACCESSIBLE LOCATION, SUCH AS A MAILBOX, AVAILABLE TO REGULATORY AGENCIES UPON REQUEST.

CONTRACTORS ARE TO MAINTAIN THE CONSTRUCTION SITE IN A NEAT AND TIDY MANNER FOR THE DURATION OF THE PROJECT.

THE TIMING AND SEQUENCE OF CONSTRUCTION IS SCHEDULED AS FOLLOWS:

1. OBTAIN PLAN APPROVAL FROM THE WDNR AND THE VILLAGE OF PEWAUKEE, AND ALL APPLICABLE PERMITS, INCLUDING EROSION CONTROL PERMIT.
2. CONSTRUCTION IS SCHEDULED TO BEGIN IN AUGUST OF 2024, DEPENDING ON WEATHER & GROUND CONDITIONS.
3. A GRAVEL TRACKING PAD UNDERLAIN WITH WISDOT TYPE R GEOTEXTILE FABRIC, SHALL BE INSTALLED AS SHOWN ON THE PLANS. IF INDICATED ON PLANS, INSTALL CONSTRUCTION FENCE AND ANY TEMPORARY TRAFFIC CONTROLS.
4. SILT FENCE AND INLET FILTER PROTECTION SHALL BE INSTALLED AS SHOWN ON THE PLANS, AND INSPECTED PRIOR TO COMMENCING OF ANY LAND DISTURBING ACTIVITIES PER PROJECT PLANS AND DETAILS. SEDIMENT DEPOSITS WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN THEY REACH A DEPTH OF 1/2 FENCE HEIGHT.
5. FOLLOWING INSTALLATION OF THE EROSION CONTROL MEASURES LISTED IN ITEM #4, THE BIO-RETENTION BASIN SHALL BE CONSTRUCTED TO SERVE AS TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL DIVERSION SWALES AND DIVERSION BERMS TO DIRECT WATER TO THE TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY STABILIZE THE BIO-RETENTION BASIN BANKS AND INLETS.
6. THE BIO-RETENTION BASIN SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES ½-INCH OF RAIN OR MORE DURING A 24-HOUR PERIOD. SEDIMENT SHALL BE REMOVED TO MAINTAIN THE 3 FOOT DEPTH OF THE TREATMENT SURFACE AREA. SEDIMENT TO BE REMOVED AFTER CONSTRUCTION & SITE STABILIZATION IS COMPLETE.
7. SITE DEMOLITION OF EXISTING PAVEMENT, SIDEWALKS, ETC. WILL OCCUR AFTER ALL EROSION CONTROL MEASURES ARE IN PLACE.
8. CONSTRUCTION OF THE BUILDING ADDITION, STARTING WITH THE FOUNDATION, WILL BEGIN IMMEDIATELY AFTER THE SITE DEMOLITION IS COMPLETE IN THE BUILDING PAD AREA.
9. TOPSOIL STRIPPING AND ROUGH GRADING WILL FOLLOW. TOPSOIL STOCKPILES WILL BE LOCATED AS SHOWN ON THE PLANS AND BE STABILIZED WITHIN 7 DAYS OF LAY UP. STOCKPILES WILL BE USED FOR FINAL LANDSCAPING. REMAINING STOCKPILES WILL BE REMOVED FROM THE SITE.
10. UTILITY INSTALLATION WILL OCCUR NEXT AND CONTINUE UNTIL ALL THE UTILITIES ARE INSTALLED.
11. AFTER ROUGH GRADING IS COMPLETE IN HARD SURFACE AREAS SUCH AS ROADWAYS, PARKING LOTS, AND BUILDINGS, THE REQUIRED THICKNESS OF DENSE GRADED BASE COURSE, PER THE PROJECT PLANS AND DETAILS WILL BE APPLIED FOR STABILIZATION.
12. AFTER ROUGH GRADING IS COMPLETE OUTSIDE OF HARD SURFACE AREAS, THE TOPSOIL WILL BE REAPPLIED AND THE LANDSCAPE CONTRACTOR WILL COMPLETE SEEDING/SODDING/FERTILIZING/ MULCHING AND INSTALL EROSION MATTING AS PER APPROVED PLANS AND SPECIFICATIONS.
13. FINAL SITE STABILIZATION IS ANTICIPATED FOLLOWING THE COMPLETION OF GRADING ACTIVITIES PER WDNR TECHNICAL STANDARD 1059. IF SITE STABILIZATION CANNOT BE COMPLETED BY OCTOBER 15, THEN THE USE OF ANIONIC POLYACRYLAMIDE CONFORMING TO WDNR TECHNICAL STANDARD 1050 SHALL BE USED. IN ADDITION, ALL SLOPES OF GREATER THAN 20% MUST ADHERE TO THE SCHEDULE IN TABLE 1 BELOW.
14. AFTER ALL TOPSOIL HAS BEEN REAPPLIED AND STABILIZATION IS UNDERWAY, ROADWAY, PARKING LOT, AND SIDEWALK SURFACE MATERIAL (I.E. ASPHALT AND CONCRETE) WILL BE INSTALLED PER PROJECT PLANS AND SPECIFICATIONS.
15. AFTER THE SITE HAS BEEN STABILIZED AND THE SEDIMENT BASIN IS NO LONGER NEEDED, THE ACCUMULATED SEDIMENT SHALL BE DREDGED OUT OF THE FOOTPRINT OF THE BIO-RETENTION BASIN AND DISPOSED OF. FOLLOWING DREDGING ACTIVITIES, FULL CONSTRUCTION OF THE BIO-RETENTION BASIN SHALL BE COMPLETED, INCLUDING INSTALLATION OF THE DRAINTILE, CLEAR STONE AND ENGINEERED SOIL PER THE PLANS AND DETAILS.
16. THE GENERAL CONTRACTOR WILL REQUEST A FINAL INSPECTION BY THE VILLAGE OF PEWAUKEE. UPON APPROVAL, ALL SILT FENCES AND INLET FILTER PROTECTION SHALL BE REMOVED, AND ACCUMULATED SEDIMENT DREDGED AND PROPERLY DISPOSED OF. IN ADDITION, THE CONTRACTOR MUST ENSURE THAT THE BIO-RETENTION BASIN IS RETURNED TO THE SLOPES AND GRADES SHOWN ON THE PROJECT PLANS AND DETAILS.
17. IF REQUIRED, FINAL "AS-BUILT" SURVEYS ARE TO BE CONDUCTED BY THE OWNER AND FINAL DOCUMENTS FORWARDED TO THE VILLAGE.
18. BARE SOIL LEFT UNDISTURBED FOR 7 CALENDAR DAYS MUST BE TEMPORARILY STABILIZED PER WDNR TECHNICAL STANDARD 1059. BY OCTOBER 15, THE SITE SHALL BE STABILIZED PER NOTE 13 ABOVE.
19. WE DO NOT ANTICIPATE THE NEED FOR WATERING WITH THIS CONSTRUCTION SCHEDULE, HOWEVER, IF ADEQUATE RAIN IS NOT EXPERIENCED WITHIN ONE WEEK AFTER INITIAL SEED GERMINATION AT ANY POINT DURING THE CONSTRUCTION PROCESS, WATER SHALL BE TRUCKED IN AND APPLIED ONCE PER WEEK.

IF CONSTRUCTION SCHEDULES SHOULD CHANGE SIGNIFICANTLY, THIS PLAN NARRATIVE WILL BE UPDATED AND RESUBMITTED BY THE GENERAL CONTRACTOR TO THE CITY AND WDNR.

DEWATERING PLAN

TO FACILITATE CONSTRUCTION AT THE PROJECT SITE, DEWATERING MAY TAKE PLACE BY THE SELECTED CONTRACTOR. CONTRACTOR TO FOLLOW THESE INSTRUCTIONS WHILE PERFORMING DEWATERING ACTIVITIES ON-SITE. IF DEWATERING IS TO TAKE PLACE AT THE SITE, IT WILL OCCUR BETWEEN STEPS 3 AND 14 OF THE EROSION CONTROL OPERATION SEQUENCE.

NOTE: THESE INSTRUCTIONS DO NOT APPLY TO WATER BEING DISCHARGED DIRECTLY TO GROUNDWATER OR KARST FEATURES OR WELL DEWATERING SYSTEMS. CONTRACTOR SHALL COORDINATE ACCORDINGLY FOR OTHER DEWATERING ACTIVITIES AS DEEMED NECESSARY WITH THE WDNR.

1. THE CONTRACTOR SHALL ENSURE THAT THE DEWATERING PRACTICES CARRIED OUT MEET OR EXCEED WNDR TECHNICAL STANDARD NUMBER 1061.
2. A PAN OR OTHER CONTAINMENT DEVICE SHALL BE PLACED UNDERNEATH THE PUMP TO CAPTURE ANY SPILLS. OILS, GASOLINE, ETC. SHALL NOT BE STORED WITHIN WETLANDS, NEAR THE STORMWATER POND, OR OTHER ON-SITE WATER AREAS.
3. A TYPE 2 GEOTEXTILE BAG THAT IS NO SMALLER THAN 100 SQUARE FEET; HAS A MAXIMUM APPARENT OPENING SIZE OF 0.212 mm; HAS A GRAB TENSILE STRENGTH OF 300 LBS; MULLEN BURST OF 580 PSI; PERMEABILITY OF 0.2 CM/SEC; FABRIC WEIGHT OF 12 OZ SHALL BE USED. THE GEOTEXTILE BAG AREA AND DOWNGRADE FLOW AREA SHALL CONSIST OF VEGETATED AND UNDISTURBED SOILS.
4. POLYMER APPROVED BY THE WDNR MEETING WDNR TECHNICAL STANDARD 1051 MAY BE USED IN COMBINATION WITH THE DEWATERING BAG IF THE DEWATERING BAG IS NOT DOING AN ADEQUATE JOB ALONE OF FILTERING SEDIMENTS. THE CONTRACTOR SHALL SUPPLY TOXICITY TESTING DATA TO THE WDNR BEFORE USE ON-SITE FOR WDNR APPROVAL. POLYMER SHALL NOT BE DIRECTLY APPLIED TO SURFACE WATER. CONTRACTOR SHALL OBTAIN THE MATERIAL SAFETY DATA SHEETS (MSDS) FOR THE SELECTED POLYMER, MANUFACTURER'S INFORMATION AND WDNR USE RESTRICTIONS (SEE TECHNICAL STANDARD 1051) AND KEEP ALL THIS INFORMATION ON-SITE. CONTRACTOR SHALL ADHERE TO MANUFACTURER AND WDNR'S APPLICATION RATES FOR THE POLYMER, WITH THE WDNR'S RATE TAKING PRECEDENCE. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT THE POLYMER IS NOT SPILLED. SPILL KITS SHALL BE KEPT ON SITE; THE MANUFACTURER'S RECOMMENDED CLEANUP PROCEDURES SHALL BE FOLLOWED IN THE EVENT OF A SPILL.
5. A TARP MAY BE UTILIZED UNDERNEATH THE TYPE 2 GEOTEXTILE BAG AND JUST DOWN SLOPE OF THE BAG TO DISCOURAGE EROSION AND SCOUR.
6. A FLOATING SUCTION HOSE OR OTHER FLOTATION METHOD SHALL BE UTILIZED WHEN PUMPING FROM AN AREA WITH STANDING WATER TO AVOID SUCKING SEDIMENT FROM GRADE.
7. IF TURBID WATER IS LEAVING THE GEOTEXTILE BAG, THE CONTRACTOR SHALL SHUT OFF THE PUMP TO ALLOW SEDIMENTS TO SETTLE INTO THE BAG. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S SPECIFICATIONS FOR DETERMINING THE SEDIMENT CAPACITY OF THE GEOTEXTILE BAG USING GOOD COMMON SENSE. SEDIMENT LEVELS CONTAINED IN THE BAG SHALL BE MONITORED TO MEASURE THE LOSS OF STORAGE CAPACITY OVER TIME. THE CONTRACTOR SHALL PROPERLY DISPOSE OF THE GEOTEXTILE BAG IN A WASTE RECEPTACLE ONCE IT IS NO LONGER USED.
8. DURING DEWATERING ACTIVITIES THE CONTRACTOR SHALL MONITOR DEWATERING PRACTICES AND KEEP A LOG OF THE FOLLOWING:
   A. DISCHARGE DURATION AND SPECIFIED PUMPING RATE.
   B. OBSERVED WATER TABLE AT TIME OF DEWATERING.
   C. MAINTENANCE ACTIVITIES
   D. NAME AND QUANTITY OF POLYMER USED. PRODUCT TYPE.
      APPLICATION RATE OF POLYMER IN POUNDS/ACRE FEET OF WATER.
      DATE AND TIME APPLIED.
      WEATHER CONDITIONS DURING APPLICATION.
      METHOD OF APPLICATION.

THIS LOG NEEDS TO BE KEPT ON SITE FOR WDNR REGULATORY REVIEW. COPIES OF THIS DOCUMENTATION SHOULD BE KEPT IN THE CONTRACTOR'S MONITORING LOG AND MADE AVAILABLE UPON REQUEST.

REVIEW THE FOLLOWING FOR MORE INFORMATION:

WDNR TECHNICAL STANDARD 1061 FOR DEWATERING – http://dnr.wi.gov/topic/stormWater/documents/Dewatering_1061.pdf

WDNR TECHNICAL STANDARD 1051 FOR POLYMER – http://dnr.wi.gov/topic/stormWater/documents/dnr1051.pdf

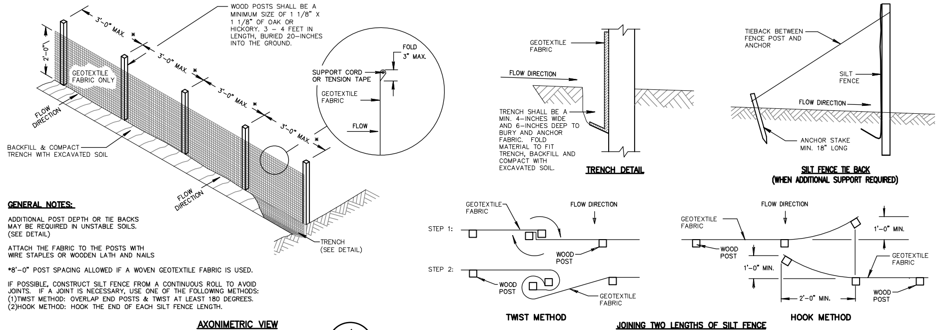
INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 0.50 INCH OR GREATER. IN ADDITION THE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION AND WEATHER CONDITIONS IN A DAILY LOG BOOK. THE DAILY LOG BOOK, WEEKLY / 0.50 INCH PRECIPITATION REPORTS, APPROVED PLANS WPDES PERMIT & CHAPTER 30 PERMIT SHALL BE KEPT IN AN ACCESSIBLE LOCATION, LIKE A MAILBOX, WITHIN THE STAGING AREA.

AT ABSOLUTELY NO TIME MAY CONSTRUCTION EQUIPMENT, DEBRIS, FILL, ETC. BE PLACED WITHIN WETLANDS, WATERWAYS OR FLOODPLAINS UNLESS IDENTIFIED IN THE PLANS & APPROVED BY DNR/USACOE.

TABLE 1 – MAXIMUM PERIOD OF BARE SOIL FOR SLOPES GREATER THAN 20%

SLOPE AREA DRAINS TO SEDIMENT BASIN?	LAND DISTURBANCE BETWEEN SEPT. 16 AND MAY 1	LAND DISTURBANCE BETWEEN MAY 2 AND SEPT. 15
YES	90 DAYS	90 DAYS
NO	60 DAYS	30 DAYS

TABLE FROM WI DNR GUIDANCE DOC # 3800–2015–06



GENERAL NOTES:

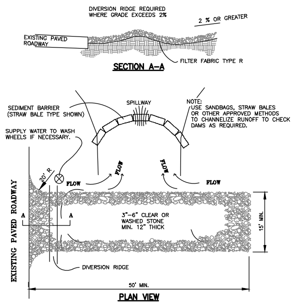
ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS. (SEE DETAIL)

ATTACH THE FABRIC TO THE POSTS WITH WIRE STAPLES OR WOODEN LATH AND NAILS

*8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

IF POSSIBLE, CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING METHODS: (1)TWIST METHOD: OVERLAP END POSTS & TWIST AT LEAST 180 DEGREES. (2)HOOK METHOD: HOOK THE END OF EACH SILT FENCE LENGTH.

1 / C201 FILTER FABRIC SILT FENCE DETAIL
N.T.S.



GENERAL NOTES:

THE AGGREGATE SIZE FOR CONSTRUCTION OF THE PAD SHALL BE 3– TO 6–INCH STONE. PLACE THE GRAVEL TO THE SPECIFIC GRADE & DIMENSIONS SHOWN ON THE PLANS & GRADE TO CREATE A SMOOTH SURFACE.

THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12 INCHES. USE GEOTEXTILE FABRICS, IF NECESSARY, TO IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS & IN ANY CASE SHALL NOT BE LESS THAN 15 FEET WIDE.

THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50 FEET.

LOCATE CONSTRUCTION ENTRANCES & EXITS TO LIMIT SEDIMENT LEAVING THE SITE & TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES. AVOID ENTRANCES WHICH HAVE STEEP GRADES & ENTRANCES AT CURVES IN PUBLIC ROADS.

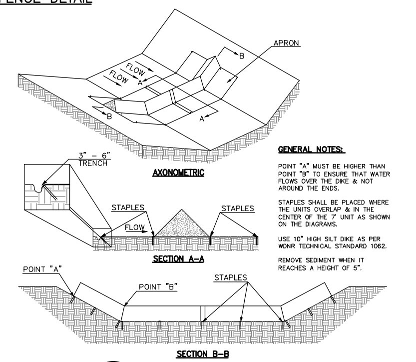
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE & REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY SHALL BE REMOVED BY THE END OF THE WORK DAY.

PROVIDE DRAINAGE FOR A 2 YEAR – 24 HOUR EVENT TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.

WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY. WHEN WASHING IS REQUIRED, DESIGNATE AN AREA WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

2 / C201 STONE TRACKING CONSTRUCTION ENTRANCE
N.T.S.



GENERAL NOTES:

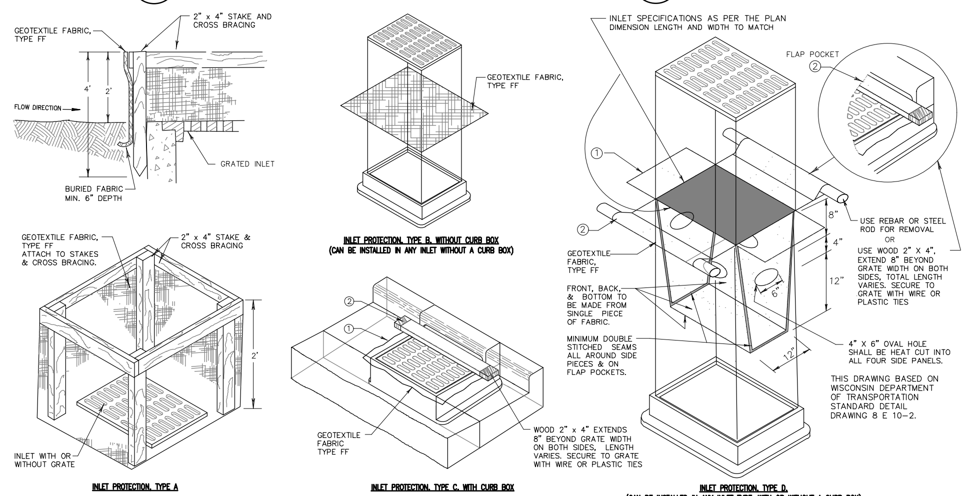
POINT "A" MUST BE HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE & NOT AROUND THE ENDS.

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP & IN THE CENTER OF THE 7' UNIT AS SHOWN ON THE DIAGRAMS.

USE 10" HIGH SILT DIKE AS PER WDNR TECHNICAL STANDARD 1062.

REMOVE SEDIMENT WHEN IT REACHES A HEIGHT OF 5".

3 / C201 TRIANGULAR SILT DIKE
N.T.S.



GENERAL NOTES

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

FINISHED SIZE SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL. SIDE FLAPS, WHERE REQUIRED SHALL BE A MIN. OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.

① FOR INLET PROTECTION, TYPE C (WITH CURB BOX), FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2"X4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE FLAP AND NOT BLOCK THE TOP HALF OF THE CURB BOX OPENING.

②

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC A MINIMUM OF 10" AROUND GRATE FOR MAINTENANCE OR REMOVAL. 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 D

UTILIZE INLET PROTECTION TYPE D IN INLETS DEEPER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3".
WHERE NECESSARY THE CONTRACTOR MAY CINCH THE BAG, USING PLASTIC ZIP TIES, TO FIT INLETS LESS THAN 30" DEPTH. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

4 / C201 INLET PROTECTION DETAIL
N.T.S.

eu:a
milwaukee | madison | green bay | denver | atlanta

kapur

PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
06/20/2024	PLAN COMMISSION SUBMITTAL
08/26/2024	PLAN REVISION 1

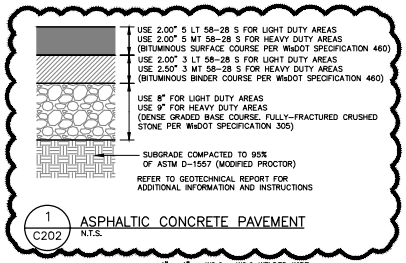
KEY PLAN

SHEET INFORMATION

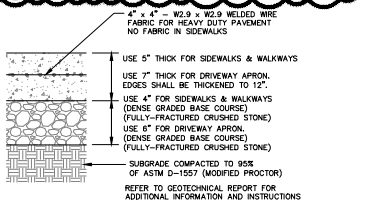
PROJECT MANAGER MS
PROJECT NUMBER 323342-01

SITE EROSION CONTROL DETAILS

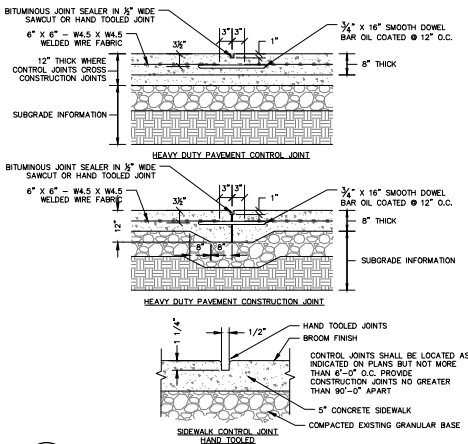
C201



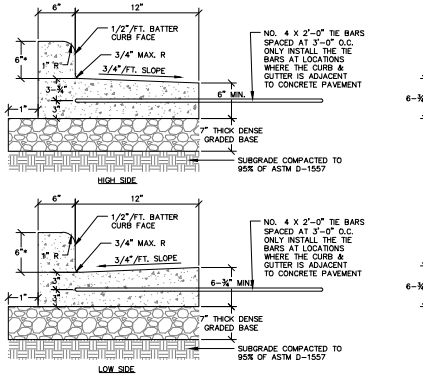
1 C202 ASPHALTIC CONCRETE PAVEMENT
N.T.S.



2 C202 CONCRETE SIDEWALK/SLAB
N.T.S.

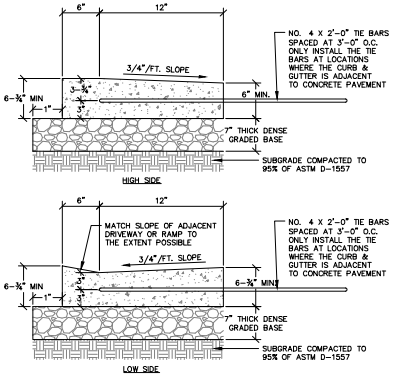


3 C202 CONTROL & CONSTRUCTION JOINT DETAILS (TYP.)
N.T.S.



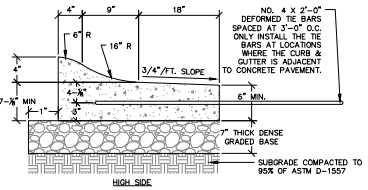
*CURB HEIGHT MAY VARY. SEE SITE GRADING PLAN FOR EXACT CURB HEIGHTS. CONTACT ENGINEER WITH ANY QUESTIONS THAT ARISE. PROVIDE CONSTRUCTION JOINTS BETWEEN 10-FEET AND 300-FEET.

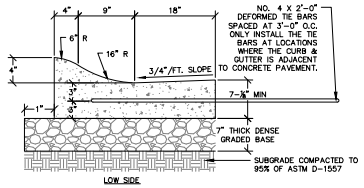
4 C202 18-INCH BARRIER CONCRETE CURB & GUTTER
N.T.S.



*CURB HEIGHT MAY VARY. SEE SITE GRADING PLAN FOR EXACT CURB HEIGHTS. CONTACT ENGINEER WITH ANY QUESTIONS THAT ARISE. PROVIDE CONSTRUCTION JOINTS BETWEEN 10-FEET AND 300-FEET.

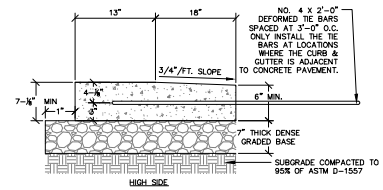
5 C202 18-INCH DEPRESSED CONCRETE CURB & GUTTER
N.T.S.

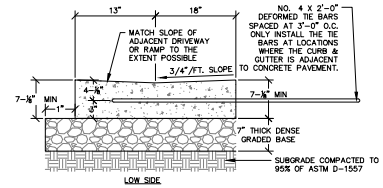




*CURB HEIGHT MAY VARY. SEE SITE GRADING PLAN FOR EXACT CURB HEIGHTS. CONTACT ENGINEER WITH ANY QUESTIONS THAT ARISE.

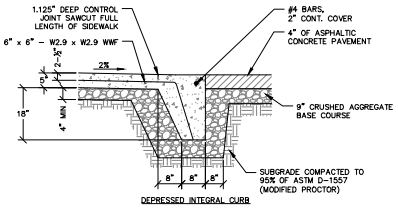
6 C202 31-INCH MOUNTABLE CONCRETE CURB & GUTTER
N.T.S.



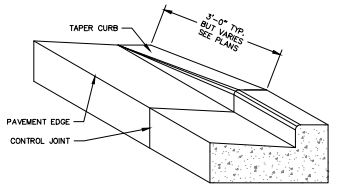


*CURB HEIGHT MAY VARY. SEE SITE GRADING PLAN FOR EXACT CURB HEIGHTS. CONTACT ENGINEER WITH ANY QUESTIONS THAT ARISE.

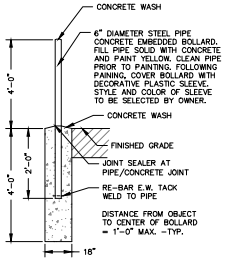
7 C202 31-INCH MOUNTABLE & DEPRESSED CONCRETE CURB & GUTTER
N.T.S.



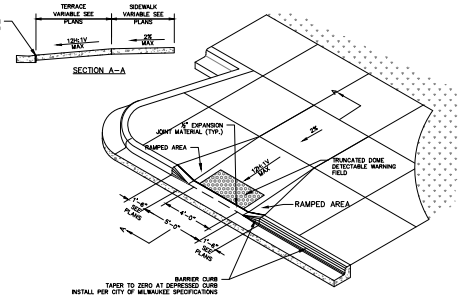
8 C202 CONCRETE SIDEWALK WITH INTEGRAL CURB
N.T.S.



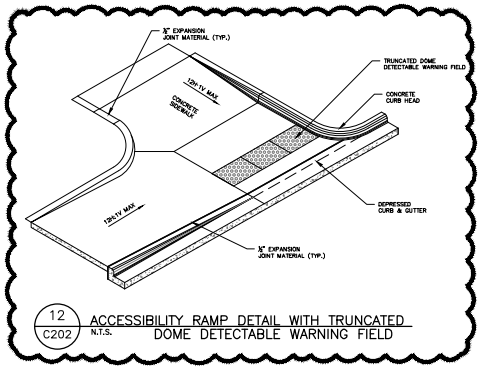
9 C202 CONCRETE CURB & GUTTER TRANSITION TO ZERO-FACE CURB
N.T.S.



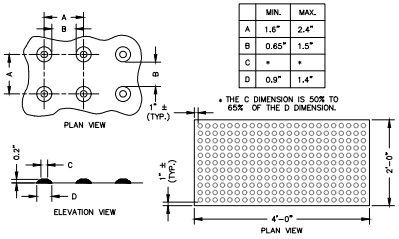
10 C202 STANDARD STEEL BOLLARD
N.T.S.



11 C202 ACCESSIBILITY RAMP DETAIL WITH TRUNCATED DOME DETECTABLE WARNING FIELD
N.T.S.



12 C202 ACCESSIBILITY RAMP DETAIL WITH TRUNCATED DOME DETECTABLE WARNING FIELD
N.T.S.



	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

TRUNCATED DOME PANEL
DETECTABLE WARNING FIELD DETAIL

GENERAL NOTES

TRUNCATED DOME DETECTABLE WARNING FIELD SHALL CONSIST OF CAST IRON PLATES WITH NO COLOR, SUCH AS THOSE MANUFACTURED BY NEENAH FOUNDRY. PLATES SHOULD WEATHER TO A RUST COLOR OVER TIME. IF 24"x48" PLATES ARE NOT AVAILABLE, TWO 24"x24" PLATES SHALL BE USED. THE DETECTABLE WARNING FIELD SHALL BE LOCATED SO THAT IT IS CENTERED IN THE CURB RAMP WITH THE EDGE NEAREST THE BACK OF CURB A MINIMUM OF 6" AND A MAXIMUM OF 8" AWAY FROM THE BACK OF CURB. IN LOCATIONS WHERE THE RAMP IS SKEWED TO THE CURB, THE DETECTABLE WARNING FIELD IS TO RUN PERPENDICULAR TO THE DIRECTION OF TRAVEL, WITH THE EDGE NEAREST THE BACK OF CURB 4" AWAY FROM THE BACK OF CURB.

13 C202 CAST IRON TRUNCATED DOME DETECTABLE WARNING FIELD
N.T.S.

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PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
05/20/2024	PLAN COMMISSION SUBMITTAL
06/28/2024	PLAN REVISION 1

KEY PLAN

SHEET INFORMATION

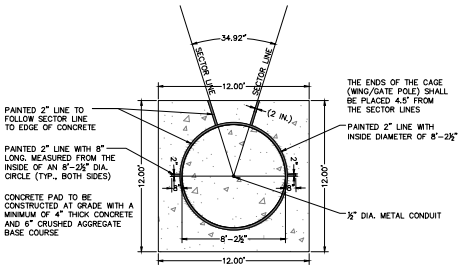
PROJECT MANAGER	MS
PROJECT NUMBER	323342-01

SITE DETAILS

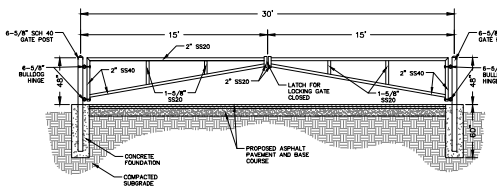
C202

1 2 3 4 5 6 7

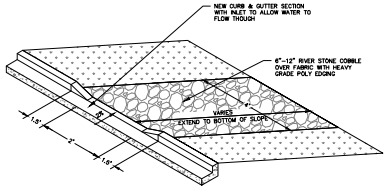
A B C D E



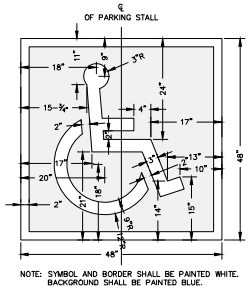
1 C203 CONCRETE DISCUS PAD DETAIL N.T.S.



2 C203 SECURITY GATE DETAIL N.T.S.

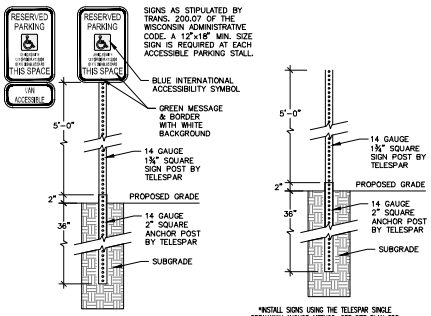


3 C203 STORMWATER CURB CUT INLET WITH COBBLE FLUME N.T.S.



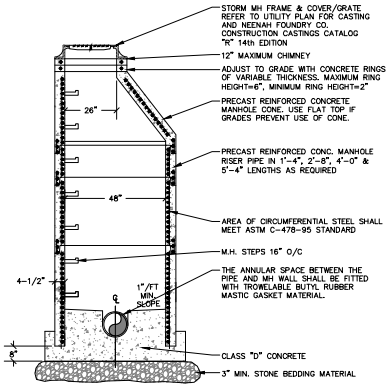
NOTE: SYMBOL AND BORDER SHALL BE PAINTED WHITE. BACKGROUND SHALL BE PAINTED BLUE.

4 C203 INTERNATIONAL ACCESSIBILITY SYMBOL FOR PARKING STALLS N.T.S.



5 C203 ACCESSIBLE PARKING STALL SIGN N.T.S.

6 C203 SIGN POST DETAIL N.T.S.



STORM MANHOLE NOTES:

1.) PRECAST CONCRETE ADJUSTING RINGS TO BE REINFORCED WITH ONE HOOP OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP.

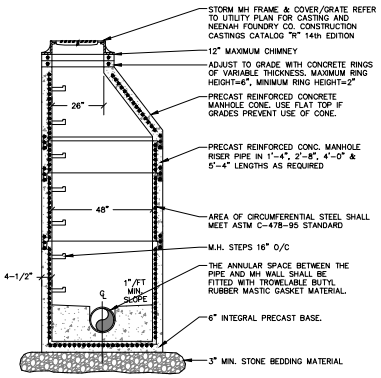
2.) CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS.

3.) JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING RUBBER GASKETS OR BUTYL RUBBER MASTIC MATERIAL.

4.) 3" MIN. BEDDING MATERIAL REQUIRED UNDER MANHOLE BASE AND BACKFILLED STRUCTURE WITH GRANULAR BACKFILL MATERIAL.

5.) SEE STANDARD SPECIFICATIONS, FILE NO. 12 FOR PRECAST MANHOLE AND FILE NO. 13 FOR MANHOLE INVERTS, INCLUDING INVERTS OF LATERAL SEWERS THAT CONNECT DIRECTLY TO MANHOLES.

7 C203 DOGHOUSE STORM MANHOLE DETAIL N.T.S.



STORM MANHOLE NOTES:

1.) PRECAST CONCRETE ADJUSTING RINGS TO BE REINFORCED WITH ONE HOOP OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP.

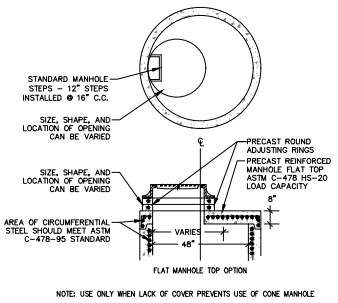
2.) CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS.

3.) JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING RUBBER GASKETS OR BUTYL RUBBER MASTIC MATERIAL.

4.) 3" MIN. BEDDING MATERIAL REQUIRED UNDER MANHOLE BASE AND BACKFILLED STRUCTURE WITH GRANULAR BACKFILL MATERIAL.

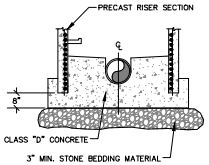
5.) SEE STANDARD SPECIFICATIONS, FILE NO. 12 FOR PRECAST MANHOLE AND FILE NO. 13 FOR MANHOLE INVERTS, INCLUDING INVERTS OF LATERAL SEWERS THAT CONNECT DIRECTLY TO MANHOLES.

8 C203 STORM MANHOLE DETAIL N.T.S.

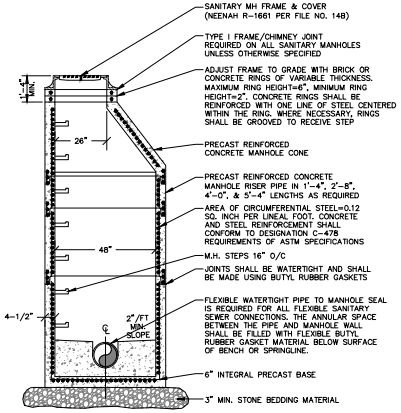


NOTE: USE ONLY WHEN LACK OF COVER PREVENTS USE OF CONE MANHOLE

9 C203 OPTIONAL FLAT TOP MANHOLE WITH ROUND FRAME & COVER N.T.S.



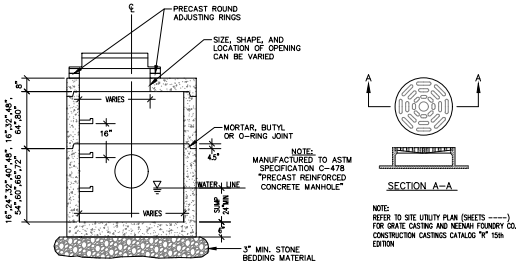
10 C203 OPTIONAL POURED MANHOLE BASE FOR MANHOLES N.T.S.



SANITARY MANHOLE NOTES:

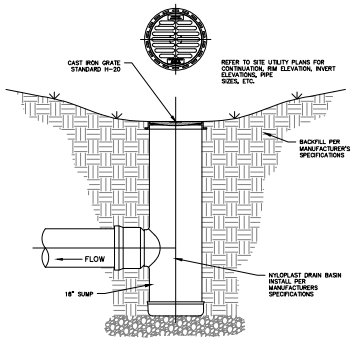
1. 4" MIN. BEDDING MATERIAL REQUIRED UNDER INTEGRAL PRECAST MANHOLE BASE WITH A MINIMUM OF 4" OF GRANULAR BACKFILL MATERIAL PLACED AROUND THE OUTSIDE OF THE STRUCTURE.
2. SEE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, FILE NO. 12 FOR PRECAST MANHOLE AND FILE NO. 13 FOR MANHOLE INVERTS, INCLUDING INVERTS OF LATERAL SEWERS THAT CONNECT DIRECTLY TO MANHOLES.

11 C203 SANITARY MANHOLE DETAIL N.T.S.

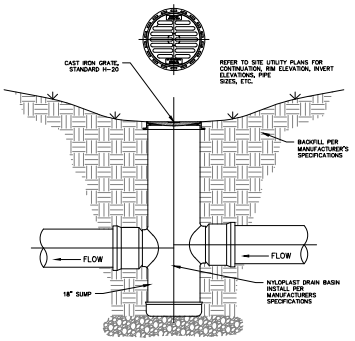


NOTE: REFER TO SITE UTILITY PLAN DRAWINGS (SHEETS ----) FOR INFORMATION REGARDING PIPE LOCATIONS, PIPE DIAMETERS, PIPE INVERTS, RIM ELEVATIONS, AND FRAMES & GRATES.

12 C203 24" X 36" STORM CATCH BASIN WITH ROUND FRAME & GRATE N.T.S.



13 C203 NYLOPLAST DRAIN BASIN WITH OUTLET N.T.S.



14 C203 NYLOPLAST DRAIN BASIN WITH INLET AND OUTLET N.T.S.

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PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
05/20/2024	PLAN COMMISSION SUBMITTAL
05/28/2024	PLAN REVISION 1

KEY PLAN

SHEET INFORMATION

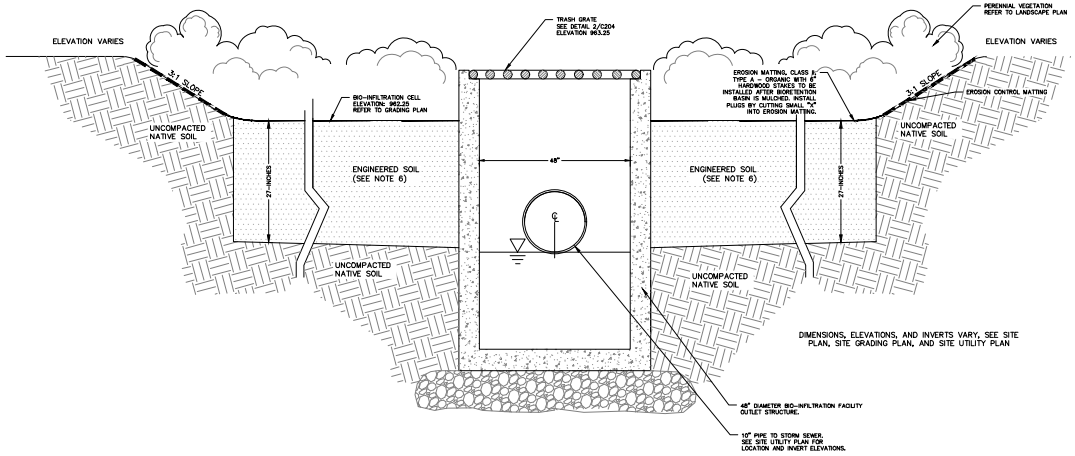
PROJECT MANAGER	MS
PROJECT NUMBER	323342-01

SITE DETAILS

C203

1 2 3 4 5 6 7

A B C D E



CARE SHALL BE TAKEN TO AVOID COMPACTION OF THE ENGINEERED SOIL AND NATIVE SOILS WITHIN THE LIMITS OF THE BIO-INFILTRATION FACILITY DURING AND AFTER CONSTRUCTION.

NOTE 1: THE BIO-INFILTRATION BASIN WILL FUNCTION AS A TEMPORARY SEDIMENT BASIN DURING LAND DISTURBING CONSTRUCTION ACTIVITIES. THE SEDIMENT BASIN SHALL BE CONSTRUCTED WITHIN THE FOOTPRINT OF THE FUTURE BIO-INFILTRATION BASIN AND EXCAVATED TO AN ELEVATION OF 959.00 TO ALLOW FOR 5 FEET OF PONDING. IN ADDITION, A NON-WOVEN GEOTEXTILE FABRIC SHALL BE INSTALLED OVER THE BOTTOM AND THE SIDES OF THE SEDIMENT BASIN TO PREVENT SEDIMENT FROM CLOGGING THE INFILTRATIVE SOILS BELOW. ALL HEAVY EQUIPMENT AND CONSTRUCTION TRAFFIC IS PROHIBITED WITHIN THE FOOTPRINT OF THE BIO-INFILTRATION BASIN/SEDIMENT BASIN. THE SEDIMENT BASIN SHALL BE CONSTRUCTED IN ACCORDANCE TO WISCONSIN DNR TECHNICAL STANDARD 1064 UNLESS SHOWN OTHERWISE IN PLANS OR SPECIFICATIONS. IF THE SEDIMENT BASIN NEEDS TO BE DEWATERED IT SHALL BE DONE IN ACCORDANCE TO WISCONSIN DNR TECHNICAL STANDARD 1061.

NOTE 2: FOLLOWING SITE STABILIZATION, SEDIMENT BASIN SHALL BE DEWATERED AND ACCUMULATED SEDIMENT AND NON-WOVEN GEOTEXTILE FABRIC SHALL BE REMOVED AND PROPERLY DISPOSED. FOLLOWING SEDIMENT REMOVAL, THE BASIN WILL NO LONGER ACT AS A TEMPORARY SEDIMENT BASIN AND THEREFORE NO SEDIMENT LADEN WATER FROM CONSTRUCTION ACTIVITIES SHALL BE ALLOWED TO DISCHARGE INTO THE BASIN.

NOTE 3: CONSTRUCTION OF THE BIO-INFILTRATION BASIN SHALL BEGIN ONLY AFTER THE SITE HAS BEEN FULLY DEVELOPED AND STABILIZED FROM EROSION AND ANY ACCUMULATED SEDIMENT WITHIN THE BASIN HAS BEEN DISPOSED.

NOTE 4: ONCE CONSTRUCTION OF THE BIO-INFILTRATIONTION BASIN BEGINS, ONCE AGAIN ALL HEAVY EQUIPMENT AND CONSTRUCTION TRAFFIC IS PROHIBITED WITHIN THE FOOTPRINT OF THE BIO-INFILTRATION BASIN. INSTALL CONSTRUCTION FENCING TO PREVENT TRAFFIC AS NEEDED. PLACEMENT OF THE ENGINEERED SOIL LAYERS SHALL BE COMPLETED WITH A BACKHOE FROM THE SIDE SLOPES OF THE BASIN. EVERY EFFORT SHALL BE MADE TO AVOID THE COMPACTION OF THE ENGINEERED SOIL WITHIN THE BASIN DURING AND AFTER CONSTRUCTION. IF COMPACTION OCCURS, REFER TO DNR TECHNICAL STANDARD 1004 FOR COMPACTION REMEDIATION.

NOTE 5: BASIN CONSTRUCTION SHALL BE SUSPENDED DURING PERIODS OF RAINFALL OR SNOWMELT. CONSTRUCTION SHALL REMAIN SUSPENDED IF PONDED WATER IS PRESENT OR IF RESIDUAL SOIL MOISTURE CONTRIBUTES SIGNIFICANTLY TO THE POTENTIAL FOR SOIL SMEARING, CLUMPING, OR OTHER FORMS OF COMPACTION.

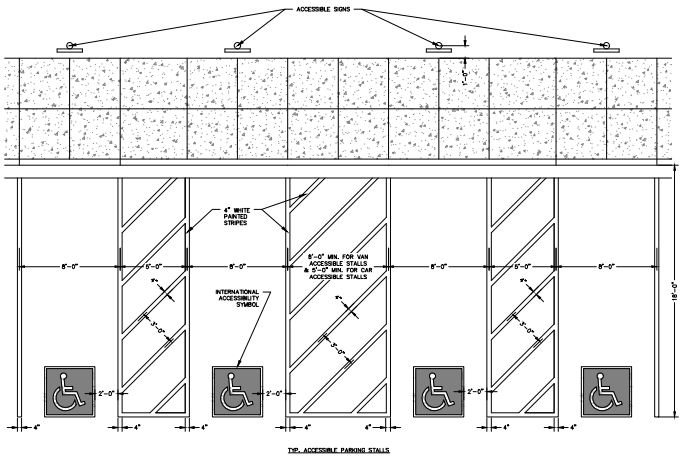
NOTE 6: ENGINEERED SOIL SHALL CONSIST OF: 70% PRE-WASHED, COARSE DOLOMITIC SAND AND 30% COMPOST (SHALL MEET DNR SPECIFICATION 100; AVAILABLE AT S & R COMPOST, WAUKESHA, WI OR PURPLE COW ORGANICS, OCONOMOWOC, WI)

NOTE 7: CONSTRUCT PER WISCONSIN DNR TECHNICAL STANDARD 1004 BIORETENTION FOR INFILTRATION UNLESS OTHERWISE INDICATED IN SPECIFICATIONS AND DETAILS.

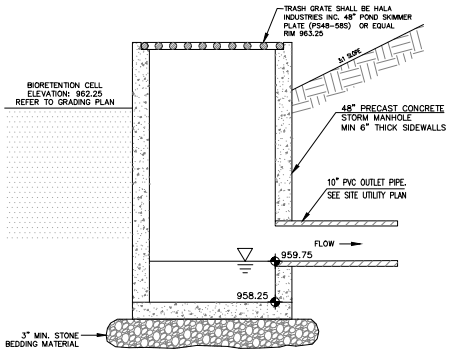
NOTE 8: REFER TO SPECIFICATION 32 92 00 PLANTS FOR ADDITIONAL INFORMATION.

NOTE 9: DIMENSIONS, ELEVATIONS, AND INVERTS VARY, SEE SITE PLAN, SITE GRADING PLAN, AND SITE UTILITY PLAN FOR ADDITIONAL INFORMATION.

1 C204 TYPICAL BIO-INFILTRATION FACILITY DETAIL
N.T.S.



4 C204 ACCESSIBLE PARKING STALL MARKING
N.T.S.

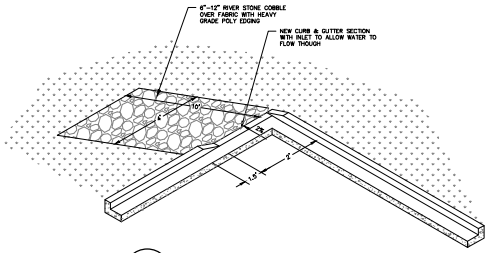


OUTLET STRUCTURE NOTES:

1. PRECAST CONCRETE ADJUSTING RINGS TO BE REINFORCED WITH ONE HOOP OF STEEL CENTERED WITHIN THE RING.
2. CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS.
3. JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING RUBBER GASKETS OR BUTYL RUBBER MASTIC MATERIAL.
4. 3" MIN. BEDDING MATERIAL REQUIRED UNDER MANHOLE BASE. BACKFILL STRUCTURE WITH GRANULAR BACKFILL MATERIAL.

2 C204 48-INCH STORM OUTFALL STRUCTURE
N.T.S. FOR BIO-INFILTRATION BASIN

3 C204 DETAIL REMOVED FROM PLAN SET
N.T.S.



5 C204 STORMWATER CURB CUT INLET
N.T.S. WITH COBBLE FLUME

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PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/09/2024	PLAN COMMISSION SUBMITTAL
09/26/2024	PLAN REVISION 1

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER MS
PROJECT NUMBER 323342-01

SITE DETAILS

C204

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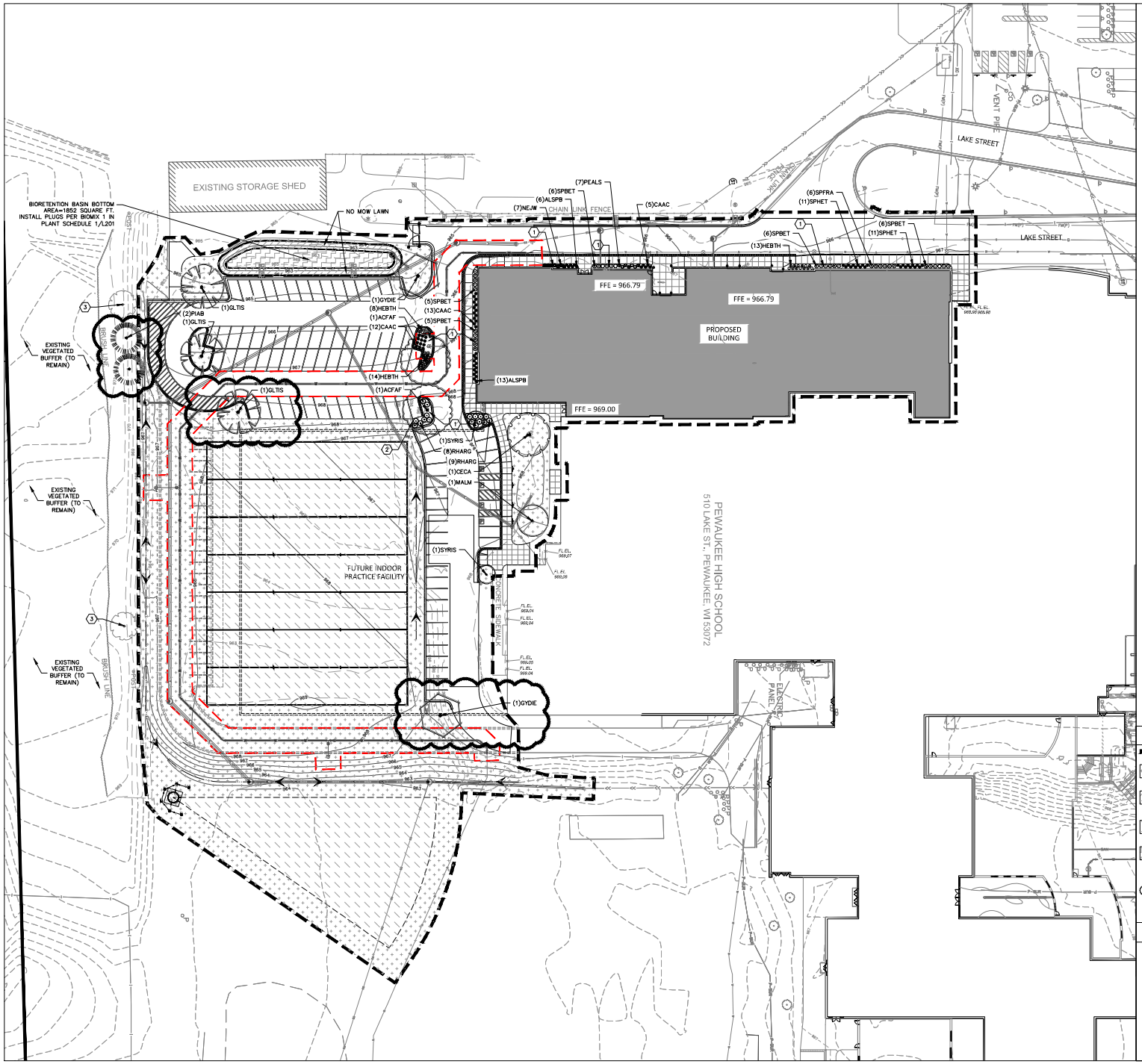


Scale: 0 15 30 60
Scale: 1" = 30'

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

HATCH LEGEND

- PROJECT LIMITS
- AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED WITH MINIMUM 4" TOPSOIL, LAWN GRASS SEED, FERTILIZER, AND MULCH (TYP). USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED.
- AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED WITH MINIMUM 4" TOPSOIL, NO MOW FESCUE WITH ANNUAL RYE GRASS SEED, FERTILIZER, AND MULCH (TYP). USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED.
- NEW SEEDED SPORTS FIELD WITH MINIMUM 4" TOPSOIL, NAMENBUG TURF BLUE PRO SEED (OR APPROVED EQUIVALENT), FERTILIZER, AND MULCH (TYP). USE SALVAGED TOPSOIL OR IMPORT TOPSOIL IF REQUIRED. TOPSOIL PLACEMENT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND FINE GRADING BY THE LANDSCAPE CONTRACTOR.
- BIOMIX 1½ 3" PLUG PLANTINGS IN BIORETENTION AREA. REFER TO CIVIL AND LANDSCAPE DETAILS. PLUGS TO BE PLANTED 12-INCHES O.C.
- (10)HEPH — PLANT "CODE" REFERENCES TO THE PLANT SCHEDULE
- QUANTITY OF PLANTS IN THE PLANT GROUPING
- LEADER LINE
- PLANT SYMBOL (SYMBOL VARIES)

KEY INDEX

1. SHREDDED HARDWOOD MULCH — 4/L201
2. ALUMINUM EDGING AT PLANTING BED — 10/L201
3. EXISTING DECIDUOUS TREE TO REMAIN (PROTECT FROM DAMAGE DURING CONSTRUCTION)

eu:a
milwaukee | madison | green bay | denver | atlanta

kapur

PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
09/09/2024	PLAN COMMISSION SUBMITTAL
09/26/2024	PLAN REVISION 1

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER MS
PROJECT NUMBER 323342-01

SITE LANDSCAPE PLAN

L101

Plant Schedule

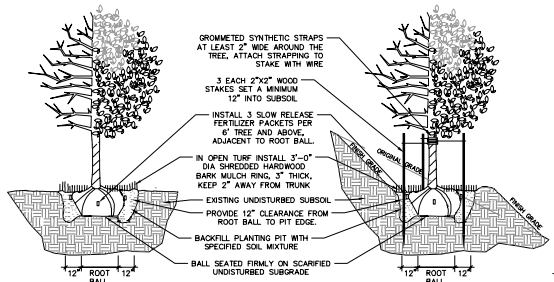
Code	Scientific Name	Common Name	Quantity	Spacing	Install Size	Mature Size (Height/Spread)
Canopy Trees: (Install in accordance with detail 7/L201)						
ACFAF	Acer x freemanii 'Autumn Fantasy'	Autumn Fantasy Maple	2	Per Plan	2.5" caliper B&B	50'/40'
GLTIS	Gleditsia triacanthos 'Shademaster' PP1,515	Shademaster Honeylocust	3	Per Plan	2.5" caliper B&B	60'/35'
GYDE	Gymnocladus dioicus 'Espresso'	Espresso Kentucky Coffee Tree	2	Per Plan	2.5" caliper B&B	50'/35'
Ornamental Trees: (Install in accordance with detail 7/L201)						
CECA	Cercis canadensis	Eastern Redbud	1	Per Plan	8' multi-stem B&B	20'-30'/25'-35'
MALM	Magnolia x loebneri 'Leonard Messel'	Leonard Messel Magnolia	1	Per Plan	2.5" caliper B&B	15'-20'/20'-25'
SYRIS	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	2	Per Plan	2.5" caliper B&B	25'/15'
Evergreen Trees: (Install in accordance with detail 8/L201)						
PIAB	Picea abies	Norway Spruce	2	Per Plan	6' tall B&B	50'-70'/25'-30'
Deciduous Shrubs: (Install in accordance with detail 9/L201)						
RHARG	Rhus aromatica 'Gro-Low'	Gro-Low Sumac	17	Per Plan	18" spread pot	2'-3'/6'-8'
SPBET	Spirea betulifolia 'Tor'	Tor Birchleaf Spirea	28	Per Plan	18" tall pot	2'-3'/3'
SPFRA	Spiraea x frishciana 'JN Select A'	Pink-a-licious Fritsch Spirea	6	Per Plan	18" tall pot	2'-3'/2'-3'
Perennials: (Install in accordance with detail 5/L201)						
ALSPB	Allium x 'Summer Peek-a-Boo'	Summer Peek-a-Boo Globe Lily	18	Per Plan	#1 cont	8"-12"/18"-24"
CAAC	Calamagrostis x acutiflora Karl Foerster	Karl Foerster Reed Grass	30	Per Plan	#1 cont	5'-6'/18"-24"
HEBTH	Hemerocallis 'Big Time Happy'	Big Time Happy Daylily	35	Per Plan	#1 cont	18"-24"/18"-24"
NEJW	Nepeta x 'Junior Walker'	Junior Walker Catmint	7	Per Plan	#1 cont	15"-18"/30"-36"
PEALS	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage	7	Per Plan	#1 cont	24"-30"/18"-24"
SPHET	Sporobolus heterolepis 'Tara'	Tara Prairie Dropseed	22	Per Plan	#1 cont	18"-24"/18"-24"
Bio-mix 1: (Space according to detail 6/L201) (Each plant species shall be installed in organic shaped groupings of no less than 20 plants for ease of identification when weeding. Larger groupings are preferred in larger bio-retention basins.)						
BIOMIX 1	Aster ericoides	Heath Aster	110	12" o.c.	3" plug	18"-24"/12"-18"
BIOMIX 1	Aster novae-angliae	New England Aster	110	12" o.c.	3" plug	48"-60"/18"-24"
BIOMIX 1	Physostegia virginiana	Obedient Plant	110	12" o.c.	3" plug	24"-48"/18"-24"
BIOMIX 1	Verbena hastata	Blue Vervain	110	12" o.c.	3" plug	36"-48"/18"-24"
BIOMIX 1	Liatris spicata	Marsh Blazing Star	110	12" o.c.	3" plug	36"-48"/12"-24"
BIOMIX 1	Monarda fistulosa	Wild Bergamot	110	12" o.c.	3" plug	36"-48"/24"-36"
BIOMIX 1	Rudbeckia hirta	Black-eyed Susan	110	12" o.c.	3" plug	36"-48"/12"-18"
BIOMIX 1	Solidago rugosa 'Fireworks'	Fireworks Goldenrod	110	12" o.c.	3" plug	42"-48"/18"-24"
BIOMIX 1	Tradescantia ohiensis	Spiderwort	110	12" o.c.	3" plug	24"-36"/12"-18"
BIOMIX 1	Ratibida pinnata	Yellow Coneflower	110	12" o.c.	3" plug	36"-48"/12"-18"
BIOMIX 1	Carex bebbi	Bebb's Sedge	156	12" o.c.	3" plug	12"-24"/8"-12"
BIOMIX 1	Bromus ciliatus	Fringed Brome Grass	110	12" o.c.	3" plug	20"-40"/12"-18"
BIOMIX 1	Panicum virgatum	Switch Grass	110	12" o.c.	3" plug	60"-108"/24"-36"
BIOMIX 1	Elymus canadensis	Canada Wild Rye	110	12" o.c.	3" plug	24"-48"/10"-12"
BIOMIX 1	Elymus virginus	Virginia Wild Rye	110	12" o.c.	3" plug	24"-48"/18"-24"
BIOMIX 1	Carex vulpinoidea	Fox Sedge	156	12" o.c.	3" plug	12"-36"/24"-36"

NOTE: Plant quantities indicated in the plant schedule are for convenience only. Installation contractor is responsible for verifying plant count on the landscape plan. When discrepancies between the plant schedule, labels and the landscape plan occur, the quantity drawn on the landscape plan shall be the official quantity.

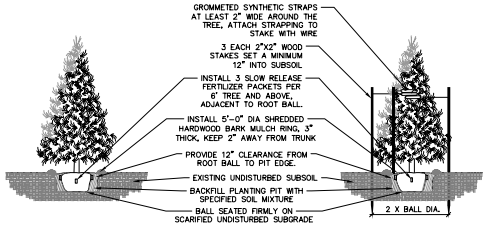
1 L201 PLANT SCHEDULE
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

1. ALL PLANT MATERIAL SHALL BE OBTAINED FROM A NURSERY LOCATED IN ZONE 5, CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AND BOTANICAL NAMES SHALL BE ACCORDING TO THE CURRENT EDITION OF "STANDARDIZED PLANT NAMES" PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURE NOMENCLATURE.
2. CONTRACTOR TO PROVIDE TO THE LANDSCAPE ARCHITECT SAMPLES OF ALL BARK AND MINERAL/STONE MULCHES, DECORATIVE GRAVELS, MAINTENANCE STRIP STONE, OR OTHER GROUND COVER MATERIALS FOR APPROVAL PRIOR TO INSTALLATION.
3. BARK MULCH TO BE FRESHLY ACQUIRED HARDWOOD SHREDDED BARK MULCH. DOUBLE MILLED, EXCESSIVE DIRT AND DUST LIKE MATERIAL OR OLD MATERIAL IS NOT ACCEPTABLE.
4. LANDSCAPE EDGING TO BE ALUMINUM EDGING. REFER TO SPECIFICATION 32 93 00 PLANTS FOR ADDITIONAL INFORMATION.
5. ALL PLANTING AREAS TO RECEIVE A 3-INCH THICK LAYER OF HARDWOOD SHREDDED BARK MULCH OVER TYPAR PROFESSIONAL WEED FABRIC WITH EDGING. EDGING TO BE INSTALLED BETWEEN DIFFERENT TYPES OF MULCHES, BETWEEN MULCHES AND TURF, AND/OR WHERE SPECIFICALLY NOTED ON THE PLAN. REFER TO SPECIFICATION 32 93 00 PLANTS FOR ADDITIONAL INFORMATION.
6. INSTALL SHOVEL CUT EDGE AROUND ALL INDIVIDUAL TREES AND SHRUBS IN LAWN AREAS AND ALONG PAVEMENT WHERE PLANTING AREAS ABUT TO PREVENT HARDWOOD SHREDDED BARK MULCH FROM SPILLING OUT OF PLANTING AREA.
7. CONTRACTOR RESPONSIBLE FOR MAINTENANCE OF PLANT MATERIAL FOR 90 DAYS FROM INSTALLATION, INCLUDING WATERING, WEEDING, ETC. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF SEEDED AREAS FOR 60 DAYS FROM INSTALLATION, INCLUDING WATERING, WEEDING, ETC. CONTRACTOR TO PROVIDE AND REVIEW MAINTENANCE INSTRUCTIONS WITH THE OWNER PRIOR TO THE COMPLETION OF THESE MAINTENANCE PERIODS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
8. CLEANLY PRUNE AND REMOVE DAMAGED BRANCHES, DEAD WOOD, AND ROOTS IMMEDIATELY PRIOR TO PLANTING. DO NOT CUT LEADERS OR LEAVE "V" CROTCHES OR DOUBLE LEADERS UNLESS A MULTI-STEM TREE IS SPECIFIED.
9. REMOVE BURLAP, WIRE BASKET, ROPE, TWINE, AND ALL SYNTHETIC MATERIAL FROM THE ROOTS, TRUNK, OR CROWN OF PLANT.
10. REMOVE EXCESS SOIL ABOVE ROOT COLLAR.
11. PLANT TREES AND SHRUBS SO THAT THE ROOT COLLAR IS 2" ABOVE FINISHED GRADE OR SEVERAL INCHES ABOVE GRADE IF PLANT IS INSTALLED IN POOR SOILS.
12. PLANT TREES AND SHRUBS WITH SAME ORIENTATION AS WHEN HARVESTED FROM THE NURSERY OR TO SHOWCASE THE MOST AESTHETIC VIEW.
13. PLANT ALL TREES WITH THREE SLOW RELEASE FERTILIZER PACKETS, SPACED EQUIDISTANT AROUND THE EDGE OF THE ROOT BALL.
14. PLANT ALL SHRUBS WITH ONE SLOW RELEASE FERTILIZER PACKET, PLACED BELOW THE ROOTING SYSTEM.
15. WATER AND TAMP BACKFILL AND ROOTS OF ALL NEWLY SET PLANT MATERIAL SO THE SOIL AND ROOTS ARE THOROUGHLY SOAKED AND AIR POCKETS ARE REMOVED.
16. FOR INDIVIDUAL TREES & SHRUBS PLANTED IN TURF AREAS, PROVIDE CONTINUOUS 3" SOIL SAUCER TO CONTAIN WATER & MULCH (TREES ON SLOPES SHALL BE SAUCERED ON THE DOWNHILL SIDE)
17. INSTALL 3" THICK SHREDDED HARDWOOD BARK MULCH RING 3'-0" DIA. FOR DECIDUOUS TREES AND ALL INDIVIDUAL SHRUBS IN LAWN AREAS. 5'-0" DIA. FOR EVERGREEN TREES. KEEP MULCH 2" AWAY FROM TRUNKS.
18. STAKING – ONLY STAKE EVERGREEN TREES 5'-0" OR GREATER IN HEIGHT OR TREES THAT ARE UNABLE TO REMAIN UPRIGHT AFTER PLANTING. TREES WILL BECOME STRONGER FASTER WHEN THE TOP 2/3 OF THE TREE IS FREE TO SWAY. DO NOT ATTACH WIRE DIRECTLY TO TREES OR THROUGH HOSES – UTILIZE GROMMETED, SYNTHETIC STRAPS AT LEAST 2" WIDE AROUND THE TREE, ATTACH STRAPPING TO STAKE WITH WIRE. STAKE ONLY WHEN NECESSARY. STAKES SHOULD BE DRIVEN DEEPLY INTO THE GROUND TO PREVENT DISLODGING. CHECK AT LEAST EVERY THREE MONTHS FOR BINDING OR OTHER PROBLEMS. STAKES AND TIES SHOULD BE REMOVED SIX MONTHS TO ONE YEAR AFTER PLANTING.
19. NO MOW TO BE NO MOW FESCUE SEED MIX WITH ANNUAL RYE NURSE CROP FROM PRAIRIE NURSERY, INC. OR REINDERS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. PRAIRIE NURSERY ADDRESS: PO BOX 306 WESTFIELD, WI 53964. TELEPHONE: 1-800-476-9453 FAX: 608-296-2741. REINDERS TELEPHONE: 1-800-782-3300 WEBSITE: WWW.REINDERS.COM.
20. REFER TO SPECIFICATIONS 32 93 00 PLANTS AND 32 92 00 TURF AND GRASSES FOR ADDITIONAL INFORMATION.

3 L201 LANDSCAPE NOTES
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION



7 L201 DECIDUOUS TREE PLANTING, STAKING, & PLANTING ON A SLOPE
N.T.S.



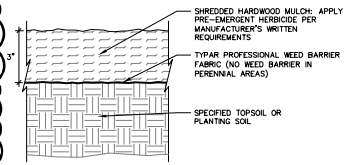
8 L201 EVERGREEN TREE PLANTING & STAKING
N.T.S.

LANDSCAPE CALCULATIONS

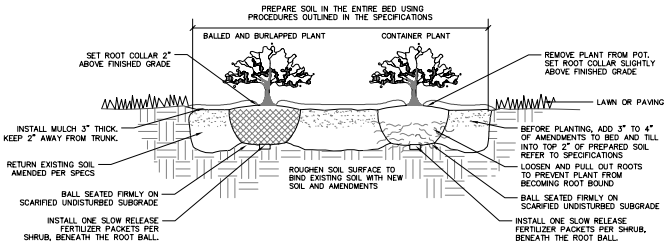
Village of Pewaukee Landscaping Requirements

	Required	Provided
Street Trees		
Street trees shall be provided at a rate of not less than one tree every 40 feet of new roadway frontage and located within the road right-of-way.	Not applicable (no new roadways)	Not applicable (no new roadways)
Street trees shall have an average trunk dimension of 2.5" at a point one foot above the grade.	Not applicable (no new roadways)	Not applicable (no new roadways)
Street trees shall be balled and burlaped and staked.	Not applicable (no new roadways)	Not applicable (no new roadways)
Parking Lot spaces provided = 87 parking spaces **Parking Lot area = 43,431 square feet**		
Parking Lot Landscaping	Required	Provided
Amount required		
Off-street parking lots with more than ten stalls shall have at least ten percent of the interior parking area landscaped. The species of landscape plantings are subject to plan commission	43,431 sf parking lot x 0.10 = 4343 sf of landscape island required	4359 sf of parking lot landscape islands provided
	Required	Provided
Screening		
Every development shall provide sufficient screening to shield adjacent properties from any adverse external effects of that development and/or to shield the development from the negative impacts of adjacent uses, streets or railroads.	Required	Project area only abuts south property line. Existing vegetated buffer provided along the south property line to remain.
A compact landscaping hedgerow or landscaped undulating berm shall be located between parking areas and public roads. Hedges shall be planted at an initial height of two feet and shall be maintained so as to form a continuous, unbroken, solid, visual screen within a maximum of one year after time of planting.	Not applicable, project area does not abut a public road	Not applicable, project area does not abut a public road.
Dumpsters shall be located and screened in accordance with plan commission approval.	Not applicable, dumpster area is not proposed in this project.	Not applicable, dumpster area is not proposed in this project.
Landscape area provided = 14,903 square feet (Does not include proposed athletic fields, future buildings, future drives or future parking areas.)		
Landscape Standards	Required	Provided
Amount required		
The undeveloped area of any commercial or multifamily residential site (exclusive of areas under roof and pavement) shall be landscaped with approved living trees, shrubs, vines, flowers, grass and groundcovers and may include water bodies, crushed rock, sand, wood chips, landscape furniture and ornamental pieces.	Required	Provided
At least one tree and two shrubs shall be planted for each 1,000 square feet or portion thereof of the area to be landscaped. Planting size and type shall be subject to plan commission	(14,903 sf / 1,000 sf) x 1 tree = 14.9 trees required	2 Existing Trees + 13 Proposed Trees = 15 Trees provided
	(14,903 sf / 1,000 sf) x 2 shrubs = 29.8 shrubs required	51 Shrubs provided
No tree, as measured from its center, shall be located within five feet of a vehicular accessway, bike trail or public sidewalk or within ten feet of a street light, stop sign, fire hydrant, street sign or directional sign.	Required	Provided
All landscaping material located within a sight distance triangle shall be two feet or less in height or have a clearance of eight feet beneath the lowest branch or projection.	Required	Provided

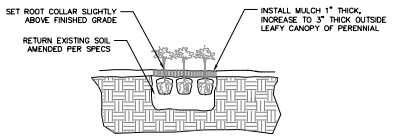
2 L201 LANDSCAPE CALCULATIONS



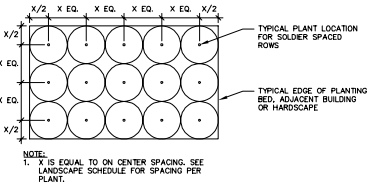
4 L201 SHREDDED HARDWOOD MULCH SECTION
N.T.S.



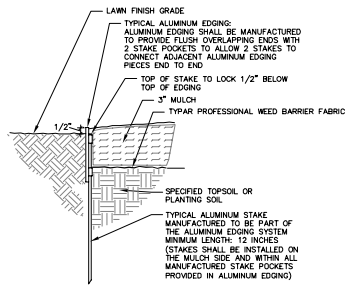
9 L201 DECIDUOUS & EVERGREEN SHRUB PLANTING
N.T.S.



5 L201 PERENNIAL PLANTING
N.T.S.



6 L201 PERENNIALS AND GROUNDCOVERS SPACING: SOLDIER
N.T.S.



10 L201 ALUMINUM EDGING AT PLANTNG BED SECTION
N.T.S.

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PROJECT INFORMATION

PEWAUKEE HIGH SCHOOL - STEAM ADDITION & RENOVATION

510 Lake Street
Pewaukee, WI 53072

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
06/20/2024	PLAN COMMISSION SUBMITTAL
08/09/2024	PLAN REVISION 1

KEY PLAN

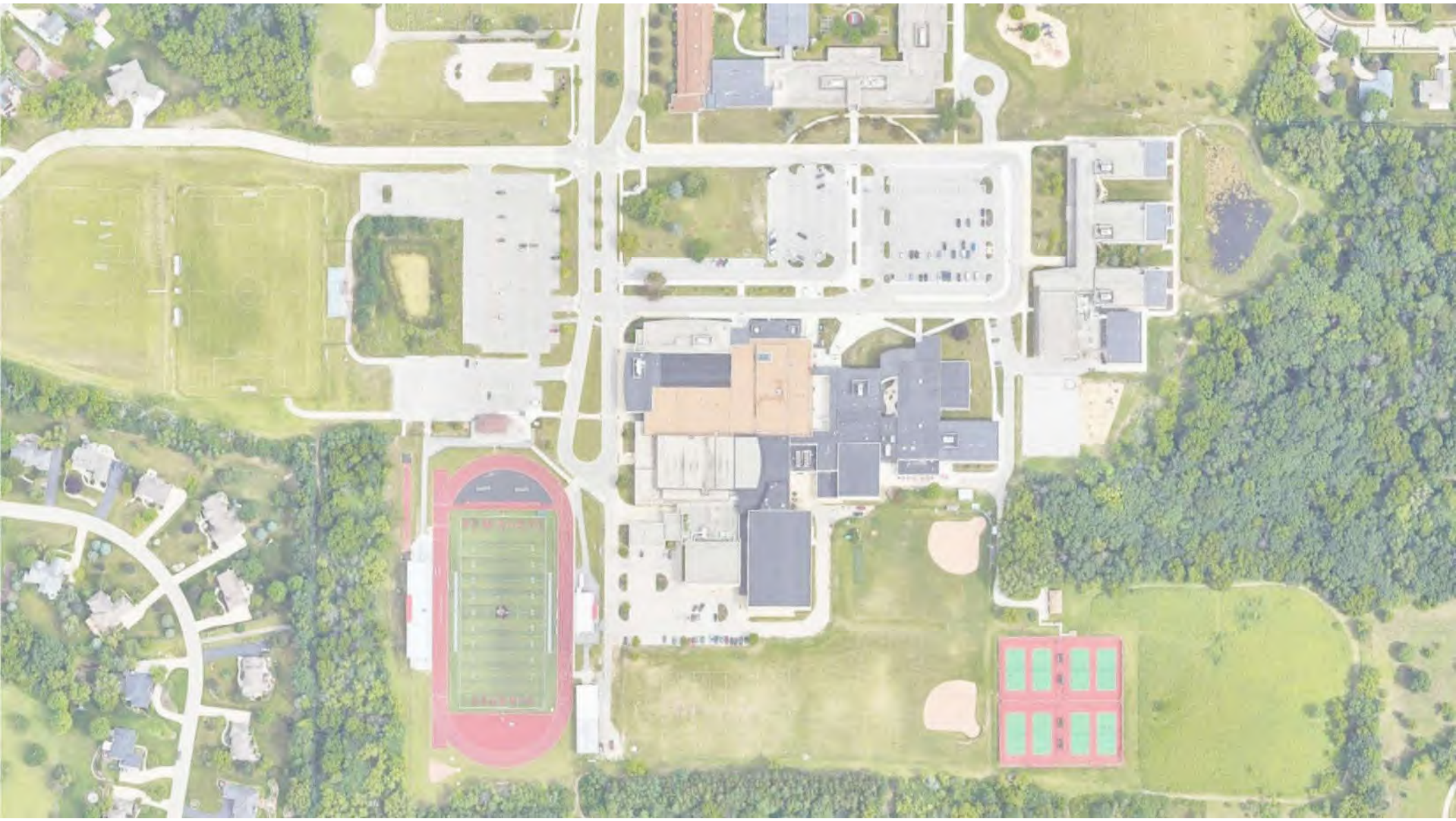
SHEET INFORMATION

PROJECT MANAGER MS
PROJECT NUMBER 323342-01

SITE LANDSCAPE DETAILS

L201

1 2 3 4 5 6 7

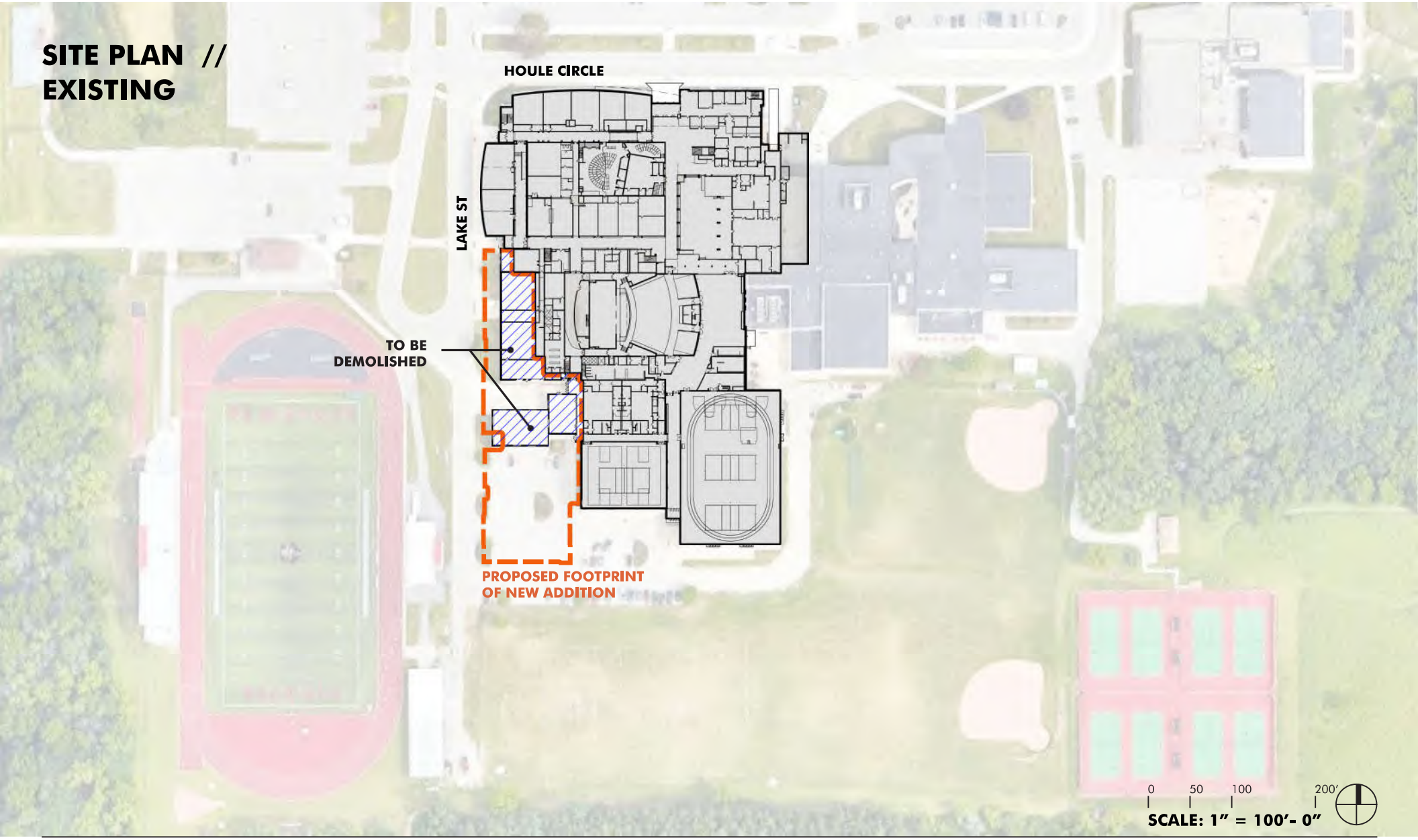


PEWAUKEE SCHOOL DISTRICT

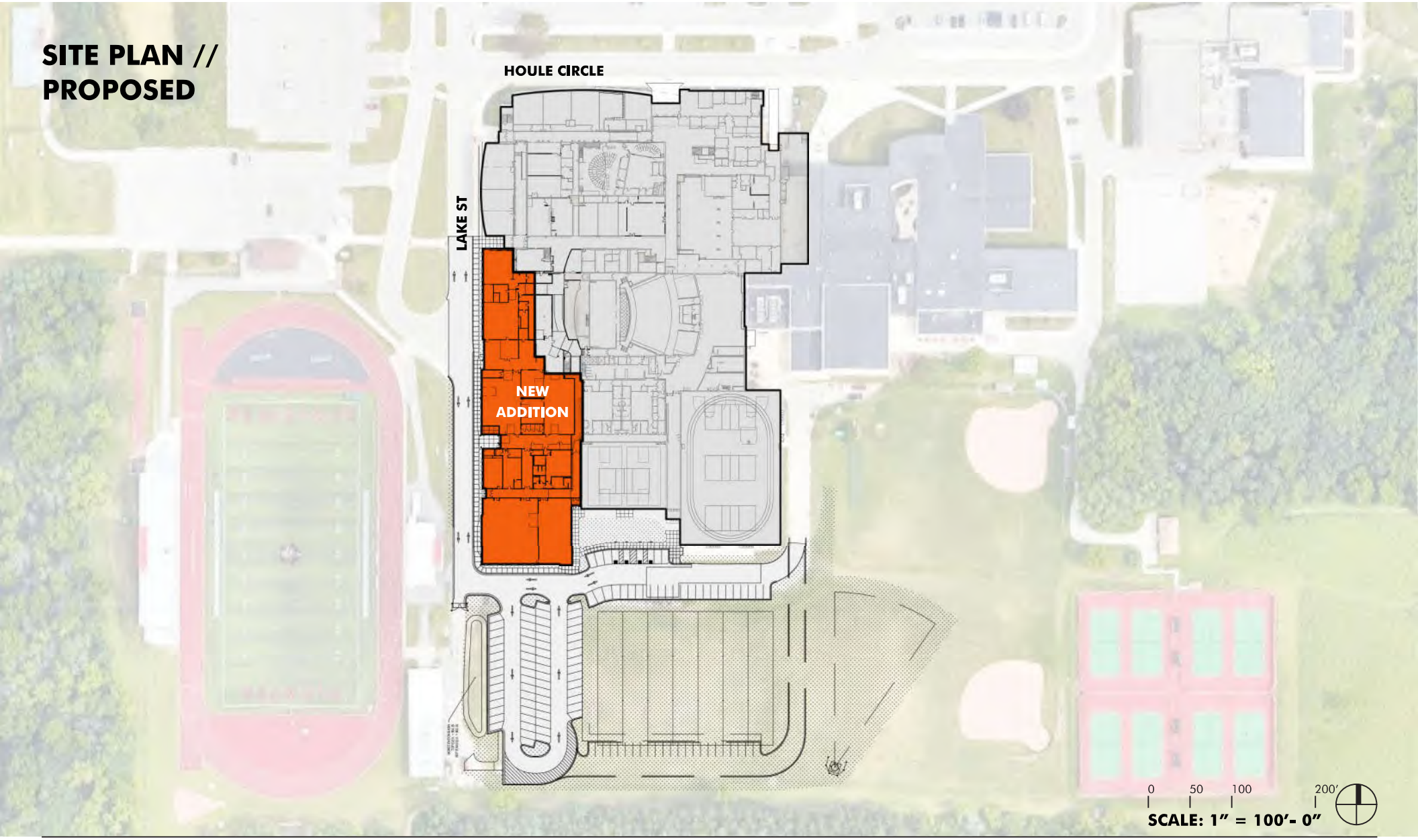
PLAN COMMISSION APPLICATION

#23342 | 09.11.2024

SITE PLAN // EXISTING



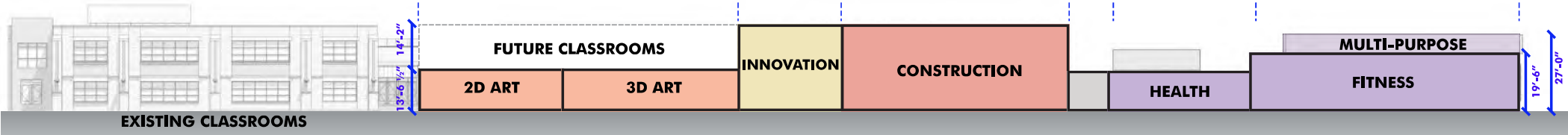
SITE PLAN // PROPOSED



WEST ELEVATION // HEIGHT REQUIREMENTS AT WEST ELEVATION

The volume requirements for each program were very specific and a mere starting point for the articulation of the massing of the new addition.

ENLARGED ADDITION PLAN



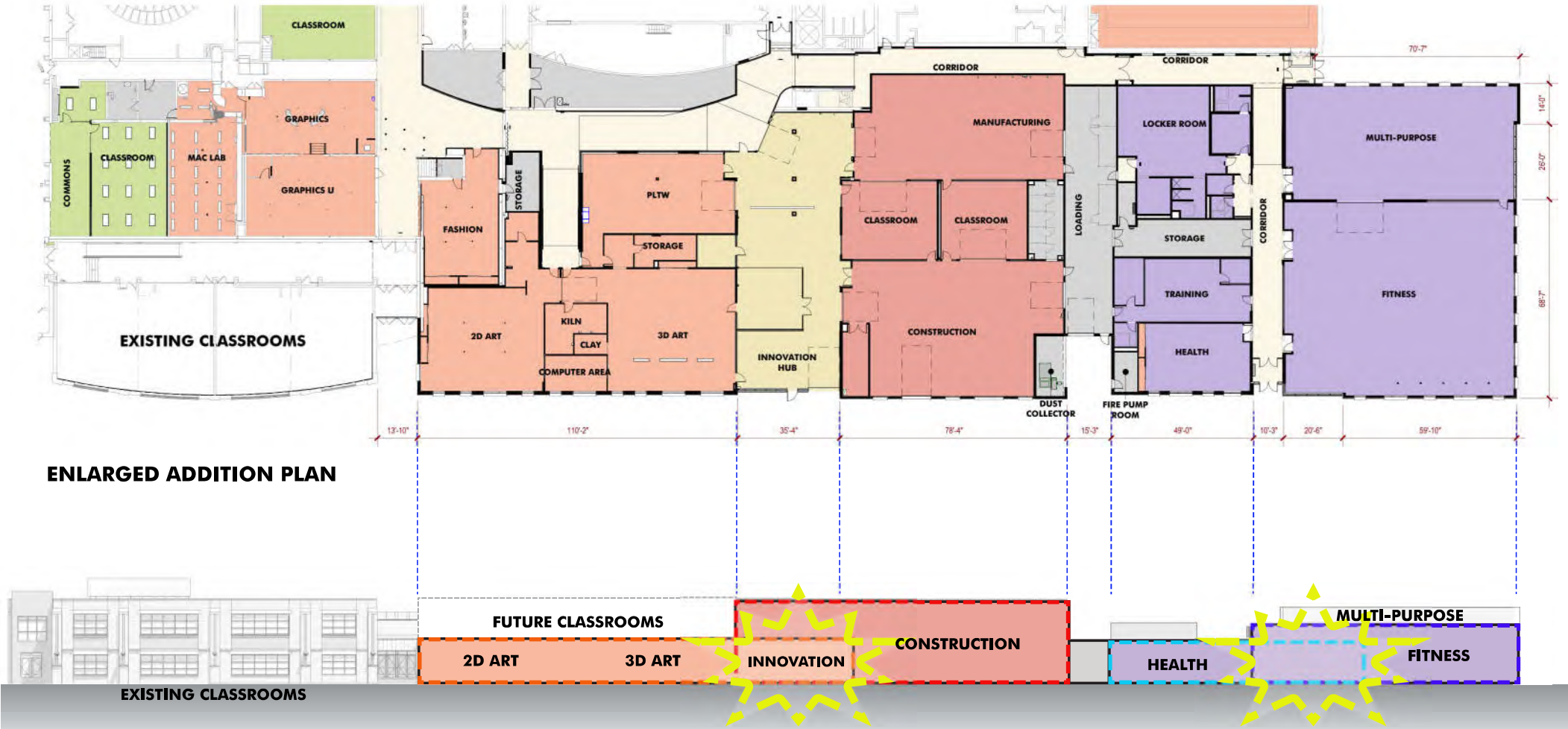
OVERALL WEST ELEVATION DIAGRAM

0 16 32 64′

SCALE: 1/32" = 1'- 0"

WEST ELEVATION // HIGHLIGHTING IMPORTANT PROGRAMS

Within the addition, there area strategic spaces that merit highlighting with increased transparency.



ENLARGED ADDITION PLAN

OVERALL WEST ELEVATION DIAGRAM

0 16 32 64′

SCALE: 1/32" = 1'- 0"

EXISTING CONTEXT

DOWNTOWN PEWAUKEE CONTEXT

Each entity of the downtown Pewaukee block is articulated differently in massing and material, breaking down the scale of the large block.

EXISTING BUILDING CONTEXT

The large scale of the consolidated middle and high schools in one building is broken down through articulation of massing through variety in materials, massing setbacks and strategic placement of glazing.

EXISTING BUILDING CONTEXT // ERA COMPARISON

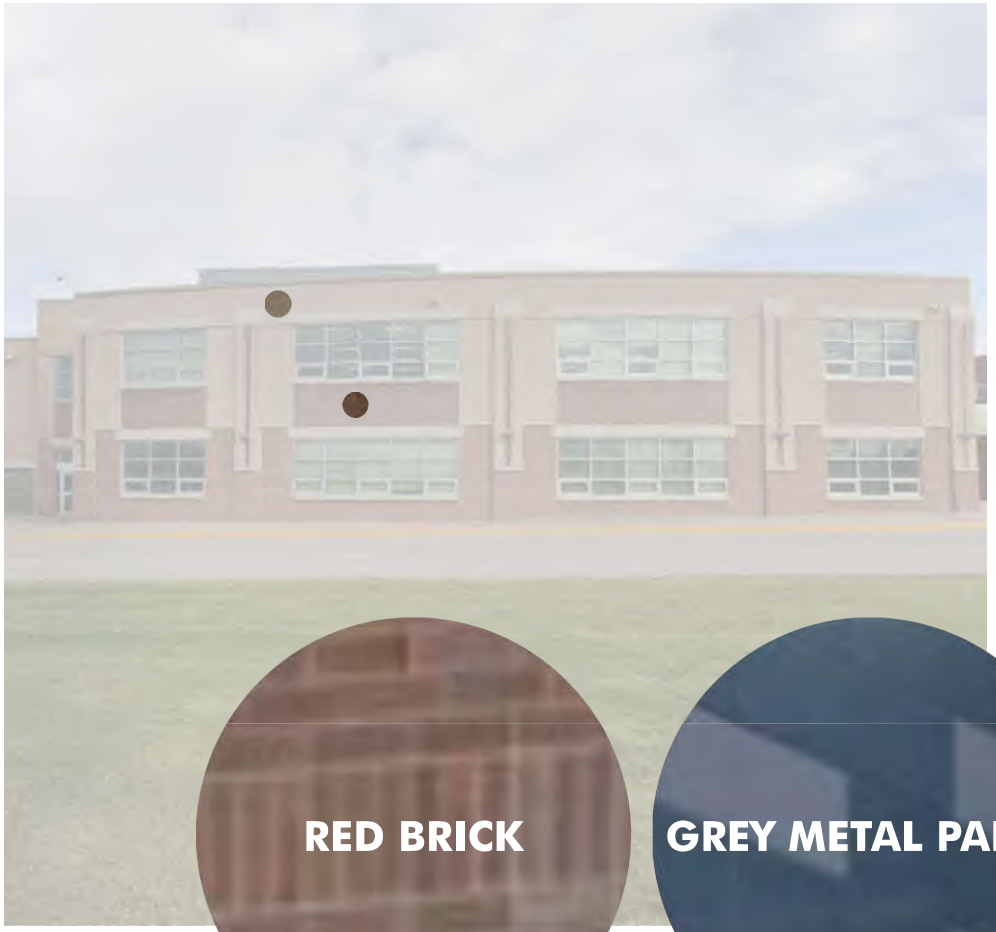
OLDER ADDITIONS

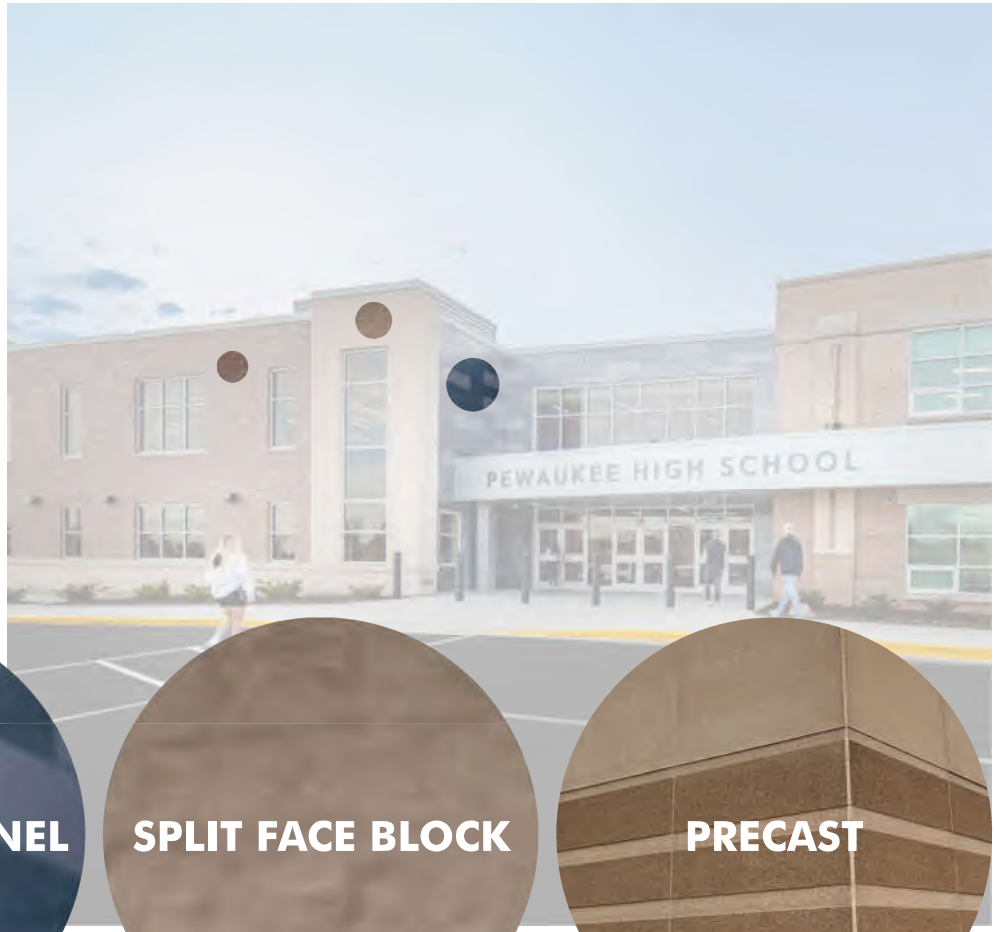
The older additions layer and alternate materials, creating a quilt-like articulation of materials.

MODERN ADDITIONS

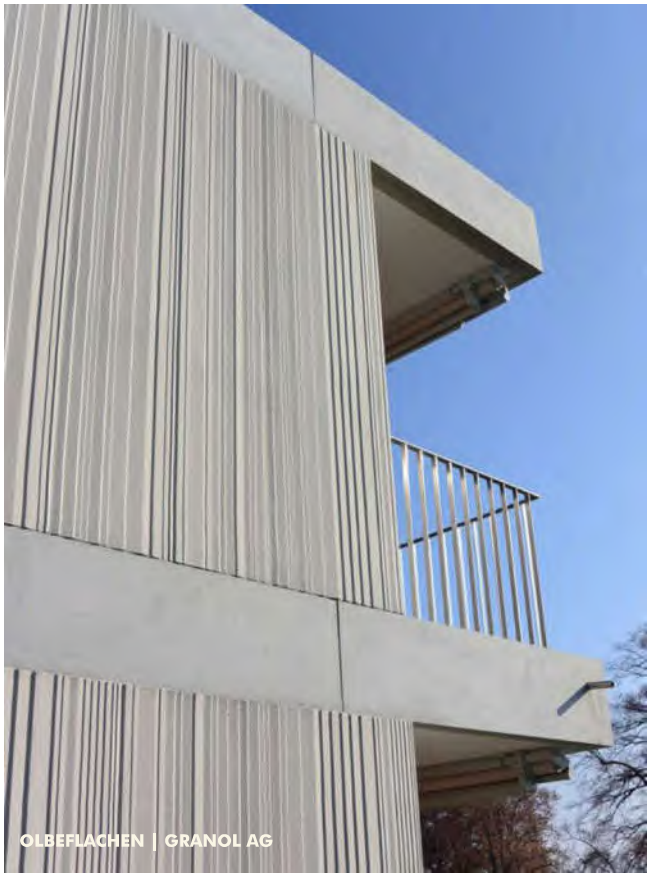
The recent additions at PHS are more modern and monolithic in their articulation of materials.

EXISTING BUILDING MATERIAL PALETTE





COMBATING THE STIGMA OF PRECAST //
EXAMPLES OF ARTICULATED PRECAST IN MODERN CONSTRUCTION


OLBEFLACHEN | GRANOL AG


AIMER FASHION FACTORY / CROSSBOUNDARIES
© XIA ZHI AND YANG CHAOYING


GUILDFORD AQUATIC CENTRE | REVERY ARCHITECTURE | © EMA PETER

BUILDING MATERIALS INSPIRED BY CAREER TECH PROGRAM

WEST ELEVATION // MATERIAL ARTICULATION

ENLARGED ADDITION PLAN

OVERALL WEST ELEVATION

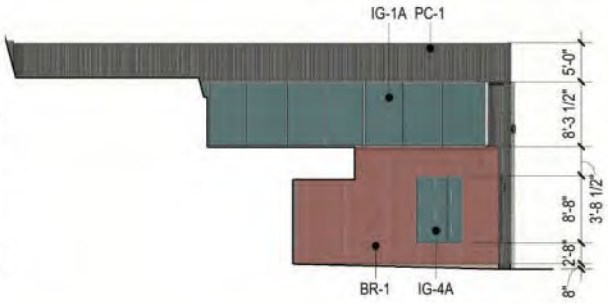
0 16 32 64′

SCALE: 1/32" = 1'- 0"

NEW ADDITION ELEVATIONS

1 WEST ELEVATION 1

2 WEST ELEVATION 2



3 NORTH ELEVATION

4 SOUTH ELEVATION

5 EAST ELEVATION

0 8 16 32′

SCALE: 1/16″ = 1′- 0″

NEW ADDITION ISOMETRIC VIEW

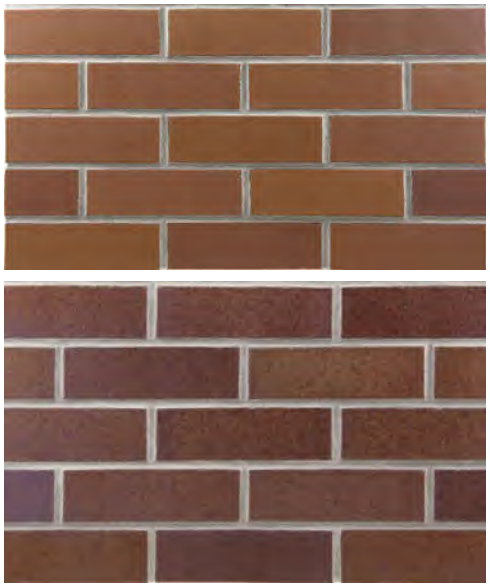
0 30 60 120'

SCALE: 1" = 30'- 0"

MATERIAL PALETTE

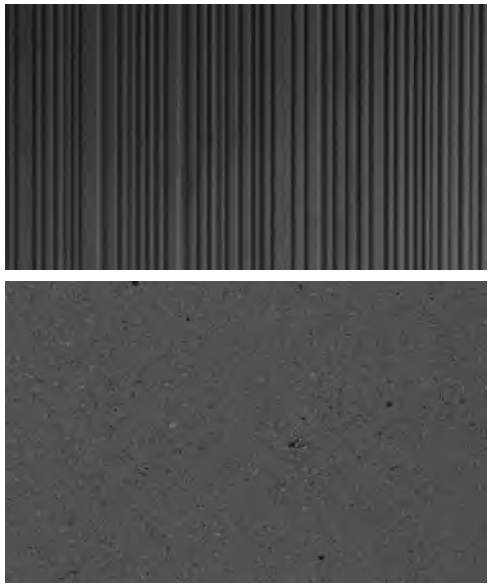
BR-1

PRECAST CONCRETE PANEL WITH BRICK INLAY
Manufacturer: Endicott Clay Products; product: Copper Canyon & Medium Ironspot 77
Texture: Smooth
Size: Modular
Bond: Soldier Coursing



PC-1

PRECAST CONCRETE PANEL WITH FORMLINER PATTERN
Product Number: 609
Texture: Acid Etched
Color: Charcoal
Concrete Color: Grey
Pattern: APFormliner 311B-M + 311C-M Rnadom Striated Rib



PC-2

PRECAST CONCRETE PANEL WITH FORMLINER PATTERN
Product Number: 157
Texture: Acid Etched
Color: Buff/Tan
Concrete Color: White
Pattern: APFormliner 311B-M + 311C-M Rnadom Striated Rib

MTL-1 & MTL-2

CONCEAL FASTENER METAL PANEL
Manufacturer: Morin Matrix Series MX-1 & MX-4
Pattern: MX-1 (MTL-1), MX-4(MTL-2)
Color:Silversmith

IG-1A: VISION GLAZING

Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
- Tint: Low iron, Vitro Glass Products, Starphire.
- Coating: Low-E type, Vitro Glass Products, Solarban 70 on the #2 surface.

1/2-inch argon-filled space.
Inboard Lite: Annealed float glass with 1/4 inch thick, minimum.
- Tint: Low iron, Vitro Glass Products, Starphire.Total Thickness: 1 inch.

Performance Characteristics:
- Thermal Transmittance (U-Value), Summer - Center of Glass: 0.26, nominal.
- Visible Light Transmittance (VLT): 71 percent, nominal.
- Solar Heat Gain Coefficient (SHGC): 0.30 percent, nominal.

IG-2A: LAMINATED GLAZING

Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
- Tint: Low iron, Vitro Glass Products, Starphire.
- Architectural Class 1. (7 mils minimum).
- Coating: Low-E type, Vitro Glass Products, Solarban 70 on the #2 surface.

1/2-inch argon-filled space.
Inboard Lite: 2-Ply
Total Thickness: 7/16 inches.
3/16-inch annealed float glass
Total Thickness: -3/16-inches
Performance Characteristics:
- Thermal Transmittance (U-Value), Summer - Center of Glass: 0.26, nominal.
- Visible Light Transmittance (VLT): 71 percent, nominal.
- Solar Heat Gain Coefficient (SHGC): 0.30 percent, nominal.

IG-3A: SPANDREL GLAZING

Thermal Transmittance (U-Value), Summer - Center of Glass: 0.26, nominal.
Outboard Lite: Fully tempered float glass, 1/4 inch thick.
- Tint: Low Iron
- Coating: Low-E type, Cardinal 633 #2 surface.

1/2-inch argon-filled space.
Inboard Lite: Fully tempered float glass, 1/4 inch thick.
- Tint: Clear.
- Opacifier: 1/4" Low-iron, Ceramic-Coated Spandrel on #4.

Total Thickness: 1 inch.

IG-4A: SECURITY GLAZING

Tint: Clear.
Thickness: 1/4 inch.
Outer Lite: Tempered Glass
Interlayer: Polyvinyl butyral (PVB), 0.60-inch thickness.
Inside Lite: Tempered glass.
SSG - structural silicone glazed.
Set in Kawneer, Trifab VersaGlaze 450 Framing System with Structural Silicone Glazed
(SSG) Options.
Non-thermal aluminum framing system.
Finish:
- (Basis of Design: Kawneer Clear Anodized #14
- Meets AA Specification AA-M10C21A41
- Architectural Class-1.

WEST ELEVATION PERSPECTIVE

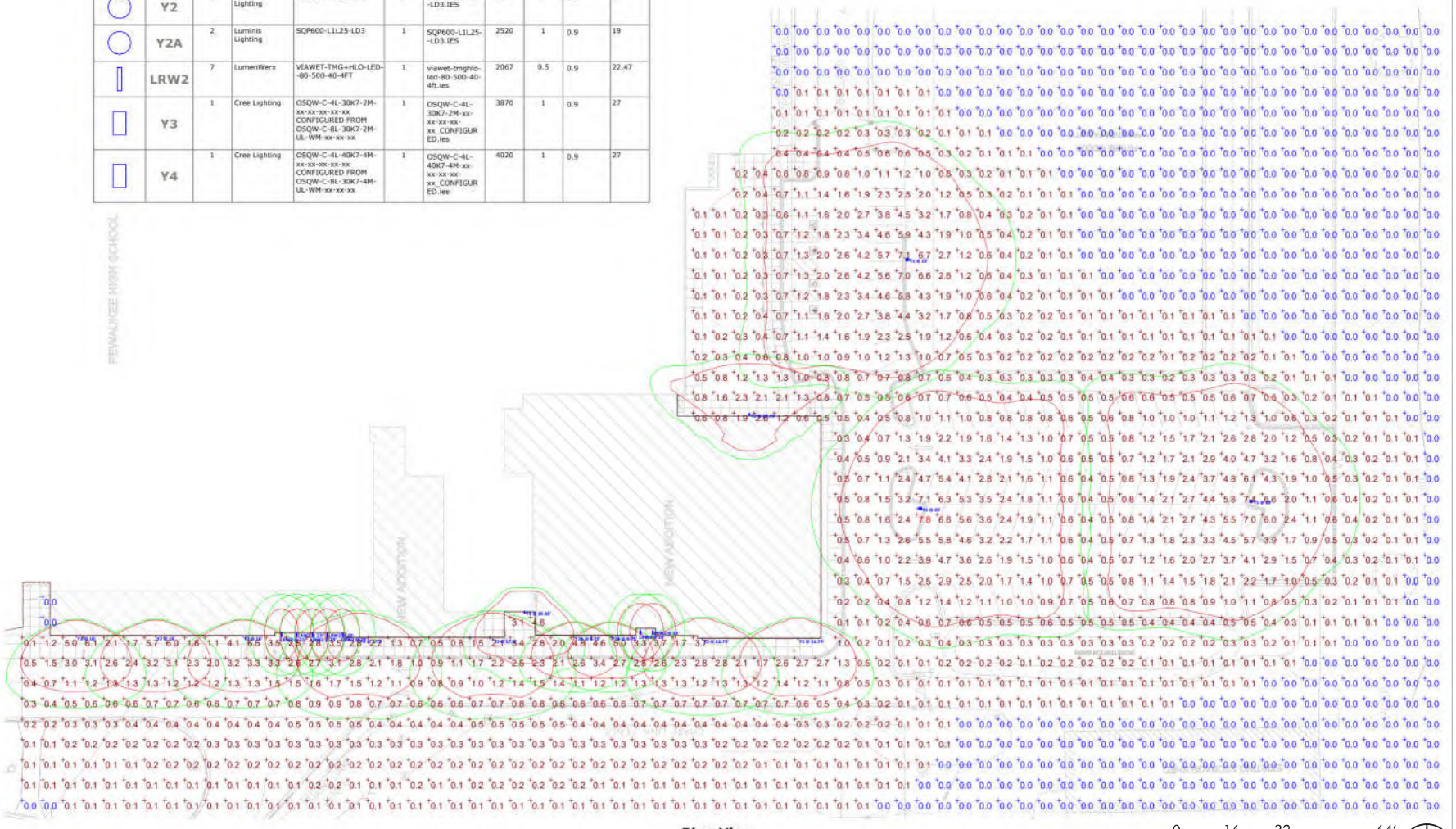
PERSPECTIVE LOOKING NORTHEAST

PERSPECTIVE LOOKING SOUTHEAST

SITE LIGHTING

Schedule

Symbol	Label	QTY	Manufacturer	Catalog Number	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wattage
	Y1	3	Cree Lighting	OSQL-C-30L-40K7-4M-Ux-xx-xx-xx-xx CONFIGURED FROM OSQL-C-xxL-40K7-4M-UL-xx-xx-xx	1	OSQL-C-30L-40K7-4M-Ux-xx-xx-xx-xx_CONFIGURED.ies	28500	1	0.9	175
	Y2	7	Luminis Lighting	SQP600-L1L45-LD3	1	SQP600-L1L45-LD3.IES	4613	1	0.9	39
	Y2A	2	Luminis Lighting	SQP600-L1L25-LD3	1	SQP600-L1L25-LD3.IES	2520	1	0.9	19
	LRW2	7	LumenWerx	VIAWET-TMG+HLO-LED--80-500-40-4FT	1	viawet-tmghlo-led-80-500-40-4ft.ies	2067	0.5	0.9	22.47
	Y3	1	Cree Lighting	OSQW-C-4L-30K7-2M-xx-xx-xx-xx-xx CONFIGURED FROM OSQW-C-8L-30K7-2M-UL-WM-xx-xx-xx	1	OSQW-C-4L-30K7-2M-xx-xx-xx-xx-xx_CONFIGURED.ies	3870	1	0.9	27
	Y4	1	Cree Lighting	OSQW-C-4L-40K7-4M-xx-xx-xx-xx-xx CONFIGURED FROM OSQW-C-8L-30K7-4M-UL-WM-xx-xx-xx	1	OSQW-C-4L-40K7-4M-xx-xx-xx-xx-xx_CONFIGURED.ies	4020	1	0.9	27



Plan View

0 16 32 64′

SCALE: 1/32” = 1’- 0”

Y1 OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort® Technology – Version C

Rev. Date: V10 06/25/2024

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. Medium is suitable upgrade for HID applications up to 400 Watts. Large is suitable upgrade for HID applications up to 1000 Watts. Extra Large is suitable upgrade for HID applications up to multiple 1000 Watts.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, pickleball courts, high-mast and internal roadways

Performance Summary

Utilizes Patented NanoComfort® Technology

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

Assembled in the USA by Cree Lighting from US and imported parts

Initial Delivered Lumens: 4,000 - 85,000

Efficacy: Up to 171 LPW

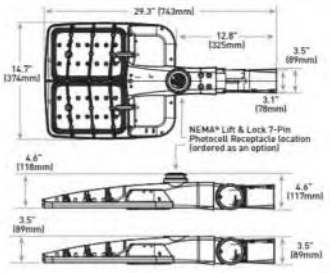
CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty[1]: 10 years for luminaire; 10 years for Colorfast DeltaGuard® finish; 5 years for BML sensor; up to 5 years for Synapse® accessories; 1 year for luminaire accessories

[1] See https://www.creelighting.com/resources/warranties/ for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

OSQM - AA Mount



Luminaire	Weight
OSQM	19.3 lbs. (8.8kg)

Note: For OSQL, OSQX and additional mounts, refer to drawings on page 27.

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-ML-C-AA-BK + **Luminaire:** OSQM-C-4L-30K7-2M-UL-NM-BK

Mount (Luminaire must be ordered separately)[*]

OSQ-

Medium/Large Mounts	Extra Large Mounts	Color Options:
OSQ-ML-C-AA Adjustable Arm	**OSQ-X-C-AA** Adjustable Arm	**SV** Silver
OSQ-ML-C-DA Direct Arm	**OSQ-X-C-DA** Direct Arm	**BK** Black
OSQ-ML-C-TM Trunnion Mount		**BZ** Bronze
		WH White

[*] Reference fixture mounting drill pattern, EPA, and pole configuration suitability data beginning on page 13.

Luminaire (Mount must be ordered separately)

OSQ | C

Family	Size	Series	Lumen Package[*]	CCT/ CRI	Optic	Voltage	Mounting	Finish	Controls[*]	Options
OSQ	M Medium L Large X Extra Large	C	**Medium** 4L 4,000 Lumens 6L 6,000 Lumens 9L 9,000 Lumens 11L 11,000 Lumens 14L 14,000 Lumens **Large** 22L 22,000 Lumens 30L 30,000 Lumens 40L 40,000 Lumens **Extra Large** 50L 50,000 Lumens 65L 65,000 Lumens 75L 75,000 Lumens 85L 85,000 Lumens	**30K7** 3000K, 70 CRI **40K7** 4000K, 70 CRI **40K9** 4000K, 90 CRI **50K7** 5000K, 90 CRI **57K7** 5700K, 70 CRI	**Asymmetric** **2M** Type II Mid **2B**** Type II Mid w/ Factory-Installed Backlight Shield - Available with all lumen packages except 85L **3M** Type III Mid **3B**** Type III Mid w/ Factory-Installed Backlight Shield - Available with all lumen packages except 85L **4M** Type IV Mid **Symmetric** **5L** Type V Long **5M** Type V Mid **5N** Type V Narrow **AF**** Type IV Mid w/Factory-Installed Backlight Shield - Available with all lumen packages except 85L **AF** Automotive FrontlineOptic™ **AB**** Automotive Frontline Optic™ w/Factory-Installed Backlight Shield - Available with all lumen packages except 85L **33** NEMA® 3x3 **44** NEMA® 4x4 **55** NEMA® 5x5 **66** NEMA® 6x6 **7S** NEMA® 7x5	**UL** Universal 120-277V **UH** Universal 347-480V - Not available with 4L, 40L, 75L or 85L lumen packages **UE** Universal 277-480V - Available only with 40L, 75L and 85L lumen packages	**NM** No Mount - Must specify mount from table above - Mount ships separately	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**BML** Bluetooth® Technology Enabled Multi-Level Sensor - Utilizes a multifunction sensor - Refer to BML spec sheet for details - 20-48' sensor lens installed on luminaire; 8-20' sensor lens and aisle shroud included - Intended for downlight applications at 0° tilt - Not available with NS, NS2, G or X options or Synapse TLT-HVG accessory **NS** **Network Sensor, 20-40' Mounting Height** **NS2** **Network Sensor, 10-30' Mounting Height** - Utilizes a multifunction sensor - Refer to PWL_INS spec sheet for details - Intended for downlight applications at 0° tilt - NS for use only with OSQL & OSQX - NS2 for use only with OSQM & OSQS - Not for use with BML, G or X options - Requires TLT-HVG Synapse Control Accessory (see page 3) and either M or R option - XA-SENSREM Hand-held Remote Accessory (see page 3) required only for changing sensitivity or time delay settings. Dimming changes handled through the TLT-HVG **D9/G8/G7/G6/G5/G4/G3/G2/G1** **Field Adjustable Output** - Must select G9, G8, G7, G6, G5, G4, G3, G2, or G1 - Offers full range adjustability - Refer to pages 15-26 for power and lumen values - Not available with BML, NS, NS2, or X options or Synapse TLT-HVG accessory **X6/X5/X4/X3/X2/X1** **Locked Lumen Output** - Must select X6, X5, X4, X3, X2, or X1 - Not available with BML, NS, NS2, or G options - X1 option not available with the following lumen package/voltage offerings: 9L/UL, 14L/UL, 14L/UH, 30L/UL, 30L/UH, 40L/UL, 40L/UH - X2 option not available 9L/UL lumen package/voltage - Lumen output is permanently locked to the setting selected - Refer to pages 15-26 for power and lumen values	**20KV** 20kV/10kA Surge Suppression - Replaces standard 10kV/5kA surge protection - Not available with NS/NS2 options **F** Fuse - Compatible with 120V, 277V or 347V (phase to neutral) - Consult factory if fusing is required for 208V, 240V or 480V (phase to phase) - When code dictates fusing, use time delay fuse **N** Utility Label and NEMA® Lift & Lock 7-Pin Photocell Receptacle - External utility label per ANSI C136.15-2020 - 7-pin receptacle per ANSI C136.41 - Available only with OSQM & OSQL luminaires - Intended for downlight applications with maximum aim 4 with "Y" in previous line of bullet 45° tilt - Factory connected 0-10V dim leads - Requires photocell or shorting cap by others **R** NEMA® Lift & Lock 7-Pin Photocell Receptacle - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - Requires photocell or shorting cap by others - Refer to page 2 for compatible Synapse control offerings **RL** Rotate Left - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 27 for optic directionality - Not for use with symmetric optics **RR** Rotate Right - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 27 for optic directionality - Not for use with symmetric optics

[*] Lumen Package codes identify approximate light output only. Actual lumen output levels vary by CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values.
* Luminaire comes standard with 0-10V dimming.
** Factory-installed backlight shields are integral to luminaire optic and may not be removed in the field. For field-install backlight control, please refer to the External Backlight Shields in the accessory table on page 2.

Website: creelighting.com
US: (800) 236-6800 **Canada:** (800) 473-1234

Product Specifications

CREE LIGHTING NANOCOMFORT® TECHNOLOGY

Cree Lighting's NanoComfort® Technology ends the trade-offs in outdoor lighting by providing superior glare reduction and visual comfort in high-efficiency illumination delivered precisely where it is needed. The basic building block of NanoComfort® Technology is a compact 4x4 array of LEDs. Each of the 16 LEDs in a module is in contact with its own acrylic polymer lens to capture and precisely direct light. With NanoComfort® Technology, the acrylic optics are cut and sculpted into facets that relieve the glare and harshness while improving visual comfort – all while retaining superb efficacy and control.

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Acrylic optic w/clear tempered glass lens
- Some versions are provided with full circuit board, but not fully populated with LEDs or optics to scale back lumen package
- Convenient interlocking mounting method on direct arm. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers. Refer to page 14 for fixture mounting drill patterns
- Adjustable arm mount adapters are rugged die cast aluminum
- OSQ-ML-C-AA mounts to a horizontal or vertical 2" (51mm) IP, 2.375" (60mm) O.D. tenon and can be adjusted 180° in 2.5° increments
- OSQ-X-C-AA mounts to a horizontal or vertical 2" (51mm) IP, 2.375-2.50" (60-64mm) O.D. steel tenon and can be adjusted 180° in 5.0° increments. **NOTE: Tenon length must be a minimum of 3.75" (95mm), and tenon must be steel**
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Luminaires include 15' (381mm) 18/5 cord exiting the luminaire
- Designed for uplight and downlight applications. Uplight orientation not suitable for use with N or R options.
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available

Weight

Mount	Housing Size		
	Medium	Large	Extra Large
Direct Arm	19.7 lbs. (8.9kg)	28.8 lbs. (13.1kg)	45.8 lbs. (20.8kg)
Adjustable Arm	19.3 lbs. (8.8kg)	28.4 lbs. (12.9kg)	48.6 lbs. (22.0kg)
Trunnion	23.2 lbs. (10.5kg)	32.3 lbs. (14.7kg)	N/A

For BML sensor add 0.1 lbs. (45g), and for NEMA receptacle, add 0.3 lbs. (136g).

- Includes QR code on the inside of the driver cover which provides access to: Online installation instructions, Luminaire information (Part number, Serial number, Build date, and Warranty end date), and Warranty claim submission form
- Duplicate 1" and 2" QR code labels are included. 1" labels can be affixed inside pole bases, next to fixtures, on site plans, or in maintenance records. 2" labels can be scanned from the ground when placed at an appropriate height

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V, 277-480V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV/5kA surge suppression protection standard; 20kV/10kA surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Dims to 10%. Controls by others
- 0-10V dimming per ANSI C137.1-2019 (0-Volt or 9-Volt per power level/options selected)
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 1.8mA
- **Operating Temperature Range:** -40°C - +40°C (-40°F - +104°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed (UL1598)
- Suitable for wet locations
- Meets NEMA C82.77 standards
- Drivers and LEDs are UL certified in accordance with UL8750
- Meets requirements of IP66 per IEC 60529 when ordered without N or R options
- Certified to ANSI C136.31-2018, 3G bridge and overpass vibration standards
- ANSI C136.2 10kV/5kA (standard) and 20kV/10kA (optional) surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Lens meets IK07 requirements per IEC 60068-2
- Assembled in the USA by Cree Lighting from US and imported parts
- Some configurations must requirements of BAA and/or BABA. Consult factory when needed for a project: www.creelighting.com/BAA-BABA
- RoHS compliant. Consult factory for additional details
- DarkSky Approved when ordered with 30K CCT and direct arm mount only. Please refer to https://darksky.org/what-we-do/darksky-approved/products-companies/#1/-/search/keyword-cree for most current information
- DLC and DLC Premium qualified SKUs available. Exceptions apply when 2B, 3B, 4B & AB optics are selected. Please refer to https://qpl.designlights.org/solid-state-lighting for most current information
- DLC Luna qualified when ordered with 4L-40L lumen packages with direct arm mount and 30K7 CCT. Please refer to https://qpl.designlights.org/solid-state-lighting for most current information
- ⚠ **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Website: creelighting.com
US: (800) 236-6800 **Canada:** (800) 473-1234

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TLT-HVG) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Synapse Wireless Control Accessories

Twist-Lock Lighting Controller
TLT-HVG
- Suitable for 120-480V (UL, UE and UH) voltages
- Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle
- Not for use with BML or Q options
- Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaire
- Refer to TLT-HVG spec sheet for details

SimplySNAP Central Base Station
CBSSW-450-002
- Includes On-Site Controller (SS450-002) and 5-button switch
- Indoor and Outdoor rated
- Refer to CBSSW-450-002 spec sheet for details

Synapse Wireless Sensor
WSN-DPM
- Motion and light sensor
- Control multiple zones
- Refer to WSN-DPM spec sheet for details

SimplySNAP On-Site Controller
SS450-002
- Verizon® LTE-enabled
- Designed for indoor applications
- Refer to SS450-002 spec sheet for details

Building Management System (BMS) Gateway
BMS-GW-002
- Required for BACnet integration
- Refer to BMS-GW-002 spec sheet for details

Outdoor Antennas (Optional, for increased range, 8dB gain)
KIT-ANT420SM
- Kit includes antenna, 20' cable and bracket
KIT-ANT360
- Kit includes antenna, 20' cable and bracket
KIT-ANT600
- Kit includes antenna, 50' cable and bracket
- Refer to Outdoor antenna spec sheet for details

Electrical Data*

Lumen Package	System Watts 120-480V	Utility Label Wattage	Total Current (A) 120V	208V	240V	277V	347V	480V
4L**	26	30	0.21	0.12	0.11	0.09	N/A	N/A
6L	37	40	0.31	0.18	0.15	0.13	0.11	0.08
9L	55	60	0.46	0.27	0.23	0.20	0.16	0.12
11L	68	70	0.57	0.33	0.29	0.25	0.20	0.14
14L	97	100	0.81	0.47	0.40	0.35	0.28	0.20
22L	131	130	1.09	0.63	0.55	0.47	0.38	0.27
30L	175	180	1.46	0.84	0.73	0.63	0.50	0.36
40L	236	240	1.96	1.13	0.98	0.85	0.68	0.49
50L	297	N/A	2.48	1.43	1.24	1.07	0.86	0.62
65L	384	N/A	3.20	1.85	1.60	1.39	1.11	0.80
75L	447	N/A	3.73	2.15	1.86	1.61	1.29	0.93
85L	520	N/A	4.34	2.50	2.17	1.88	1.50	0.93

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V, 277-480V or 347-480V+/- 10%.
** Available with UL voltage only.

OSQ-C Series Ambient Adjusted Lumen Maintenance[1]

Ambient	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2] LMF	100K hr Reported[2] LMF
5°C (41°F)	1.02	0.99	0.93	0.88	0.83
10°C (50°F)	1.02	0.98	0.93	0.87	0.82
15°C (59°F)	1.01	0.98	0.92	0.87	0.82
20°C (68°F)	1.01	0.97	0.92	0.86	0.81
25°C (77°F)	1.00	0.97	0.91	0.86	0.81

[1] Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

Accessories

Field-Installed

External Backlight Shield
OSQ-M-C-BLSF (Medium)
OSQ-L-C-BLSF (Large)
OSQ-X-C-BLSF (Extra Large)
- Not for use with related optics
- Provides 1 mounting height backlight cutoff
- 18 ga. steel construction w/black finish

Bird Spikes
OSQ-M-C-BRDSPK (Medium)
OSQ-L-C-BRDSPK (Large)
OSQ-X-C-BRDSPK (Extra Large)
- Includes bird spikes (three rows for M/L; four rows for XL) and screws to attach to housing

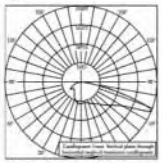
Shorting Cap
XA-XSLSHRT

Hand-Held Remote
XA-SENSREM
- Required only for changing sensitivity or time delay with the NS or NS2 options, a minimum of one hand-held remote is required

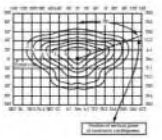
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

2M



RESTL Test Report #: PL17910-001A
Configured
OSQL-C-xxL-30K7-2M-UL-xx-xx-xx
Initial Delivered Lumens: 27,400



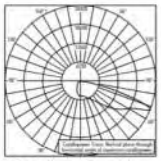
OSQL-C-30L-30K7-2M-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 27,400
Initial FC at grade

Type II Mid Distribution

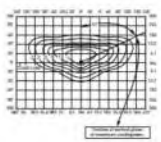
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	3,650	B1 U0 G1	3,800	B1 U0 G1	2,810	B1 U0 G1	3,800	B1 U0 G1
6L	5,475	B1 U0 G1	5,700	B1 U0 G1	4,220	B1 U0 G1	5,700	B1 U0 G1
9L	8,225	B2 U0 G2	8,550	B2 U0 G2	6,325	B2 U0 G2	8,550	B2 U0 G2
11L	10,025	B2 U0 G2	10,450	B2 U0 G2	7,750	B2 U0 G2	10,450	B2 U0 G2
14L	14,650	B3 U0 G3	15,200	B3 U0 G3	11,275	B2 U0 G2	15,200	B3 U0 G3
22L	20,100	B3 U0 G3	20,900	B3 U0 G3	15,500	B3 U0 G3	20,900	B3 U0 G3
30L	27,400	B3 U0 G3	28,500	B3 U0 G3	21,100	B3 U0 G3	28,500	B3 U0 G3
40L	34,500	B4 U0 G4	36,000	B4 U0 G4	26,100	B3 U0 G3	36,000	B4 U0 G4
50L	45,600	B4 U0 G4	47,500	B4 U0 G4	35,200	B3 U0 G3	47,500	B4 U0 G4
65L	59,300	B4 U0 G5	61,800	B4 U0 G5	45,700	B4 U0 G4	61,800	B4 U0 G5
75L	68,400	B5 U0 G5	71,300	B5 U0 G5	52,800	B4 U0 G4	71,300	B5 U0 G5
85L	77,400	B5 U0 G5	80,800	B5 U0 G5	59,800	B4 U0 G5	80,800	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

2B



RESTL Test Report #: PL17977-001A
OSQL-C-40L-30K7-2B-UL-xx-xx-xx
Initial Delivered Lumens: 25,560



OSQL-C-40L-30K7-2B-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 25,100
Initial FC at grade

Type II Mid w/BLS Distribution (factory-installed)

Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	2,510	B1 U0 G1	2,620	B1 U0 G1	1,940	B0 U0 G1	2,620	B1 U0 G1
6L	3,760	B1 U0 G1	3,920	B1 U0 G1	2,900	B1 U0 G1	3,920	B1 U0 G1
9L	5,650	B1 U0 G1	5,875	B1 U0 G1	4,350	B1 U0 G1	5,875	B1 U0 G1
11L	6,900	B1 U0 G1	7,200	B1 U0 G2	5,325	B1 U0 G1	7,200	B1 U0 G2
14L	10,075	B1 U0 G2	10,450	B2 U0 G2	7,750	B1 U0 G2	10,450	B2 U0 G2
22L	13,800	B2 U0 G2	14,375	B2 U0 G2	10,650	B2 U0 G2	14,375	B2 U0 G2
30L	18,800	B2 U0 G2	19,600	B2 U0 G3	14,525	B2 U0 G2	19,600	B2 U0 G3
40L	25,100	B3 U0 G3	26,200	B3 U0 G3	19,400	B2 U0 G2	26,200	B3 U0 G3
50L	31,400	B3 U0 G4	32,700	B3 U0 G4	24,200	B3 U0 G3	32,700	B3 U0 G4
65L	40,800	B3 U0 G4	42,500	B3 U0 G4	31,500	B3 U0 G4	42,500	B3 U0 G4
75L	47,100	B3 U0 G5	49,000	B3 U0 G5	36,300	B3 U0 G4	49,000	B3 U0 G4

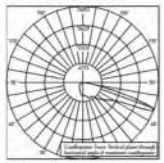
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort® Technology – Version C

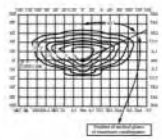
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

2M W/OSQ-*-C-BLSF



RESTL Test Report#: PL17978-001B
OSQL-C-40L-30K7-2M-UL-xx-xx-xx w/
OSQ-L-C-BLSF
Initial Delivered Lumens: 21,978



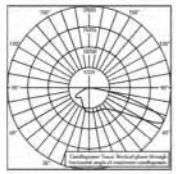
OSQL-C-40L-30K7-2M-UL w/OSQ-L-C-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 21,000
Initial FC at grade

Type II Mid Distribution w/OSQ-*-C-BLSF (field-installed)

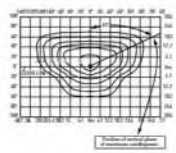
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	2,100	B0 U0 G1	2,180	B0 U0 G1	1,615	B0 U0 G1	2,180	B0 U0 G1
6L	3,140	B1 U0 G1	3,270	B1 U0 G1	2,420	B1 U0 G1	3,270	B1 U0 G1
9L	4,720	B1 U0 G1	4,910	B1 U0 G1	3,630	B1 U0 G1	4,910	B1 U0 G1
11L	5,750	B1 U0 G1	6,000	B1 U0 G1	4,450	B1 U0 G1	6,000	B1 U0 G1
14L	8,400	B1 U0 G2	8,725	B1 U0 G2	6,475	B1 U0 G2	8,725	B1 U0 G2
22L	11,550	B2 U0 G2	12,000	B2 U0 G2	8,900	B1 U0 G2	12,000	B2 U0 G2
30L	15,700	B2 U0 G3	16,400	B2 U0 G3	12,100	B2 U0 G2	16,400	B2 U0 G3
40L	21,000	B3 U0 G3	21,800	B3 U0 G3	16,100	B2 U0 G3	21,800	B3 U0 G3
50L	26,200	B3 U0 G4	27,300	B3 U0 G4	20,200	B3 U0 G3	27,300	B3 U0 G4
65L	34,000	B3 U0 G4	35,500	B3 U0 G4	26,200	B3 U0 G4	35,500	B3 U0 G4
75L	39,300	B3 U0 G4	40,900	B3 U0 G4	30,300	B3 U0 G4	40,900	B3 U0 G4
85L	44,500	B3 U0 G5	46,400	B4 U0 G4	34,300	B3 U0 G5	46,400	B3 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

3M



RESTL Test Report #: PL17882-001A
Configured
OSQL-C-xxL-30K7-3M-UL-xx-xx-xx
Initial Delivered Lumens: 27,400



OSQL-C-30L-30K7-3M-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 27,400
Initial FC at grade

Type III Mid Distribution

Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	3,650	B1 U0 G1	3,800	B1 U0 G1	2,810	B1 U0 G1	3,800	B1 U0 G1
6L	5,475	B1 U0 G1	5,700	B1 U0 G1	4,220	B1 U0 G1	5,700	B1 U0 G1
9L	8,225	B2 U0 G2	8,550	B2 U0 G2	6,325	B1 U0 G1	8,550	B2 U0 G2
11L	10,025	B2 U0 G2	10,450	B2 U0 G2	7,750	B2 U0 G2	10,450	B2 U0 G2
14L	14,650	B3 U0 G3	15,200	B3 U0 G3	11,275	B2 U0 G2	15,200	B3 U0 G3
22L	20,100	B3 U0 G3	20,900	B3 U0 G3	15,500	B3 U0 G3	20,900	B3 U0 G3
30L	27,400	B3 U0 G4	28,500	B3 U0 G4	21,100	B3 U0 G3	28,500	B3 U0 G4
40L	36,500	B4 U0 G4	38,000	B4 U0 G4	28,100	B3 U0 G4	38,000	B4 U0 G4
50L	45,600	B4 U0 G5	47,500	B4 U0 G5	35,200	B3 U0 G4	47,500	B4 U0 G5
65L	59,300	B4 U0 G5	61,800	B4 U0 G5	45,700	B4 U0 G5	61,800	B4 U0 G5
75L	68,400	B4 U0 G5	71,300	B5 U0 G5	52,800	B4 U0 G5	71,300	B5 U0 G5
85L	77,400	B5 U0 G5	80,800	B5 U0 G5	59,800	B4 U0 G5	80,800	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

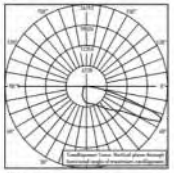
Website: creelighting.com
US: (800) 236-6800 **Canada:** (800) 473-1234

CREE LIGHTING

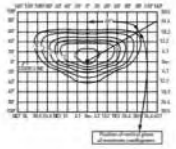
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
https://creelighting.com/products/outdoor/area/osq-series

3B



RESTL Test Report #: PL17975-001A
OSQL-C-40L-30K7-3B-UL-xx-xx-xx
Initial Delivered Lumens: 25,199



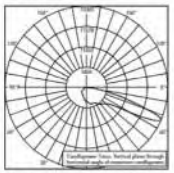
OSQL-C-40L-30K7-3B-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 25,100
Initial FC at grade

Type III Mid w/BLS Distribution (factory-installed)

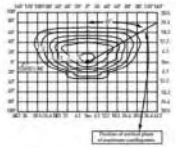
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	2,510	B1 U0 G1	2,629	B1 U0 G1	1,960	B0 U0 G1	2,629	B1 U0 G1
6L	3,760	B1 U0 G1	3,920	B1 U0 G1	2,900	B1 U0 G1	3,920	B1 U0 G1
9L	5,650	B1 U0 G1	5,875	B1 U0 G2	4,350	B1 U0 G1	5,875	B1 U0 G2
11L	6,900	B1 U0 G2	7,200	B1 U0 G2	5,325	B1 U0 G1	7,200	B1 U0 G2
14L	10,075	B1 U0 G2	10,450	B2 U0 G2	7,750	B1 U0 G2	10,450	B2 U0 G2
22L	13,800	B2 U0 G2	14,375	B2 U0 G2	10,650	B2 U0 G2	14,375	B2 U0 G2
30L	18,800	B2 U0 G3	19,600	B2 U0 G3	14,525	B2 U0 G2	19,600	B2 U0 G3
40L	25,100	B3 U0 G4	26,200	B3 U0 G4	19,400	B2 U0 G3	26,200	B3 U0 G4
50L	31,400	B3 U0 G4	32,700	B3 U0 G4	24,200	B3 U0 G3	32,700	B3 U0 G4
65L	40,800	B3 U0 G5	42,500	B3 U0 G5	31,500	B3 U0 G4	42,500	B3 U0 G5
75L	47,100	B3 U0 G5	49,000	B3 U0 G5	36,300	B3 U0 G4	49,000	B3 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

3M W/OSQ-*-C-BLSF



RESTL Test Report#: PL17976-001A
OSQL-C-40L-30K7-3M-UL-xx-xx-xx w/
OSQ-L-C-BLSF
Initial Delivered Lumens: 22,081



OSQL-C-40L-30K7-3M-UL w/OSQ-L-C-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 21,000
Initial FC at grade

Type III Mid Distribution w/OSQ-*-C-BLSF (field-installed)

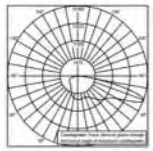
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	2,100	B0 U0 G1	2,188	B0 U0 G1	1,610	B0 U0 G1	2,188	B0 U0 G1
6L	3,140	B1 U0 G1	3,270	B1 U0 G1	2,420	B1 U0 G1	3,270	B1 U0 G1
9L	4,720	B1 U0 G1	4,910	B1 U0 G1	3,630	B1 U0 G1	4,910	B1 U0 G1
11L	5,750	B1 U0 G2	6,000	B1 U0 G2	4,450	B1 U0 G1	6,000	B1 U0 G2
14L	8,400	B1 U0 G2	8,725	B1 U0 G2	6,475	B1 U0 G2	8,725	B1 U0 G2
22L	11,550	B2 U0 G2	12,000	B2 U0 G2	8,900	B1 U0 G2	12,000	B2 U0 G2
30L	15,700	B2 U0 G3	16,400	B2 U0 G3	12,100	B2 U0 G2	16,400	B2 U0 G3
40L	21,000	B2 U0 G3	21,800	B3 U0 G3	16,100	B2 U0 G3	21,800	B3 U0 G3
50L	26,200	B3 U0 G4	27,300	B3 U0 G4	20,200	B2 U0 G3	27,300	B3 U0 G4
65L	34,000	B3 U0 G4	35,500	B3 U0 G5	26,200	B3 U0 G4	35,500	B3 U0 G5
75L	39,300	B3 U0 G5	40,900	B3 U0 G5	30,300	B3 U0 G4	40,900	B3 U0 G5
85L	44,500	B3 U0 G5	46,400	B3 U0 G5	34,300	B3 U0 G4	46,400	B3 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

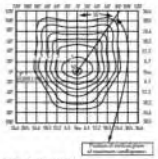
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
https://creelighting.com/products/outdoor/area/osq-series

4M



RESTL Test Report #: PL18130-001A
Configured
OSQL-C-xxL-40K7-4M-UL-xx-xx-xx
Initial Delivered Lumens: 38,000



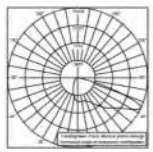
OSQL-C-40L-40K7-4M-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 38,000
Initial FC at grade

Type IV Mid Distribution

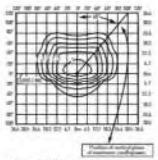
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	3,650	B1 U0 G1	3,800	B1 U0 G1	2,810	B1 U0 G1	3,800	B1 U0 G1
6L	5,475	B1 U0 G1	5,700	B1 U0 G1	4,220	B1 U0 G1	5,700	B1 U0 G1
9L	8,225	B2 U0 G2	8,550	B2 U0 G2	6,325	B1 U0 G1	8,550	B2 U0 G2
11L	10,025	B2 U0 G2	10,450	B2 U0 G2	7,750	B2 U0 G2	10,450	B2 U0 G2
16L	14,650	B3 U0 G3	15,200	B3 U0 G2	11,275	B2 U0 G2	15,200	B3 U0 G3
22L	20,100	B3 U0 G3	20,900	B3 U0 G3	15,500	B3 U0 G2	20,900	B3 U0 G3
30L	27,400	B3 U0 G4	28,500	B3 U0 G4	21,100	B3 U0 G3	28,500	B3 U0 G4
40L	36,500	B4 U0 G4	38,000	B4 U0 G4	28,100	B3 U0 G4	38,000	B4 U0 G4
50L	45,600	B4 U0 G5	47,500	B4 U0 G5	35,200	B4 U0 G4	47,500	B4 U0 G5
65L	59,300	B5 U0 G5	61,800	B5 U0 G5	45,700	B4 U0 G5	61,800	B5 U0 G5
75L	68,400	B5 U0 G5	71,300	B5 U0 G5	52,800	B4 U0 G5	71,300	B5 U0 G5
85L	77,400	B5 U0 G5	80,900	B5 U0 G5	59,800	B5 U0 G5	80,900	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

4B



RESTL Test Report #: PL18145-001A
Configured
OSQL-C-xxL-40K7-4B-UL-xx-xx-xx
Initial Delivered Lumens: 24,000



OSQL-C-40L-40K7-4B-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 24,000
Initial FC at grade

Type IV Mid w/BLS Distribution (factory-installed)

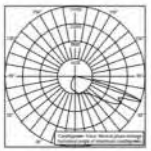
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	2,300	B1 U0 G0	2,400	B1 U0 G0	1,770	B0 U0 G0	2,400	B1 U0 G0
6L	3,440	B1 U0 G1	3,590	B1 U0 G1	2,660	B1 U0 G0	3,590	B1 U0 G1
9L	5,175	B1 U0 G1	5,400	B1 U0 G1	3,980	B1 U0 G1	5,400	B1 U0 G1
11L	6,325	B1 U0 G1	6,600	B1 U0 G1	4,880	B1 U0 G1	6,600	B1 U0 G1
16L	9,225	B2 U0 G2	9,575	B2 U0 G2	7,100	B1 U0 G1	9,575	B2 U0 G2
22L	12,625	B2 U0 G2	13,175	B2 U0 G2	9,750	B2 U0 G2	13,175	B2 U0 G2
30L	17,260	B3 U0 G2	18,000	B3 U0 G2	13,300	B2 U0 G2	18,000	B3 U0 G2
40L	23,000	B3 U0 G3	24,000	B3 U0 G3	17,700	B3 U0 G2	24,000	B3 U0 G3
50L	28,700	B3 U0 G3	29,900	B3 U0 G3	22,200	B3 U0 G3	29,900	B3 U0 G3
65L	37,400	B3 U0 G4	38,900	B3 U0 G4	28,800	B3 U0 G3	38,900	B3 U0 G4
75L	43,100	B4 U0 G4	44,900	B4 U0 G4	33,200	B3 U0 G4	44,900	B4 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

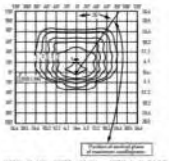
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

4M W/OSQ-*-C-BLSF



RESTL Test Report #: PL18166-001A Configured OSQL-C-xxL-40K7-4M-UL-xx-xx-xx w/ OSQ-L-C-BLSF
Initial Delivered Lumens: 21,800



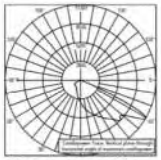
OSQL-C-40L-40K7-4M-UL w/OSQ-L-C-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 21,800
Initial FC at grade

Type IV Mid Distribution w/OSQ-*-C-BLSF (field-installed)

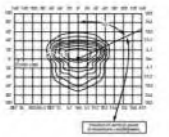
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	2,100	B1 U0 G1	2,180	B1 U0 G1	1,610	B0 U0 G1	2,180	B1 U0 G1
6L	3,140	B3 U0 G1	3,270	B1 U0 G1	2,420	B1 U0 G1	3,270	B1 U0 G1
9L	4,770	B1 U0 G1	4,910	B1 U0 G1	3,630	B1 U0 G1	4,910	B1 U0 G1
11L	5,750	B1 U0 G2	6,000	B1 U0 G2	4,440	B1 U0 G1	6,000	B1 U0 G2
14L	8,600	B1 U0 G2	8,725	B2 U0 G2	6,475	B1 U0 G2	8,725	B2 U0 G2
22L	11,550	B2 U0 G2	12,000	B2 U0 G2	8,900	B2 U0 G2	12,000	B2 U0 G2
30L	15,700	B2 U0 G3	16,400	B2 U0 G3	12,100	B2 U0 G2	16,400	B2 U0 G3
40L	21,000	B3 U0 G3	21,800	B3 U0 G3	16,100	B2 U0 G3	21,800	B3 U0 G3
50L	26,200	B3 U0 G4	27,300	B3 U0 G4	20,200	B3 U0 G3	27,300	B3 U0 G4
65L	34,900	B3 U0 G5	36,500	B3 U0 G4	26,900	B3 U0 G4	36,500	B3 U0 G4
75L	39,300	B3 U0 G5	40,900	B3 U0 G5	30,300	B3 U0 G4	40,900	B3 U0 G5
85L	44,500	B4 U0 G5	46,400	B4 U0 G5	34,300	B3 U0 G4	46,400	B4 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

AF



RESTL Test Report #: PL18809-001A
OSQM-C-16L-50K9-AF-UL-xx-xx-xx
Initial Delivered Lumens: 12,361



OSQL-C-40L-40K7-AF-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 38,000
Initial FC at grade

Automotive FrontLineOptic™ Distribution

Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	3,450	B3 U0 G1	3,800	B1 U0 G1	2,810	B1 U0 G1	3,800	B1 U0 G1
6L	5,475	B3 U0 G1	5,700	B1 U0 G1	4,220	B1 U0 G1	5,700	B1 U0 G1
9L	8,315	B1 U0 G1	8,560	B1 U0 G1	6,305	B1 U0 G1	8,560	B1 U0 G1
11L	10,025	B2 U0 G1	10,450	B2 U0 G1	7,750	B1 U0 G1	10,450	B2 U0 G1
14L	14,650	B2 U0 G2	15,200	B2 U0 G2	11,275	B2 U0 G1	15,200	B2 U0 G2
22L	20,180	B3 U0 G2	20,900	B3 U0 G2	15,500	B2 U0 G2	20,900	B3 U0 G2
30L	27,400	B3 U0 G3	28,500	B3 U0 G3	21,100	B3 U0 G2	28,500	B3 U0 G3
40L	34,500	B3 U0 G3	36,000	B3 U0 G3	26,700	B3 U0 G3	36,000	B3 U0 G3
50L	45,600	B4 U0 G3	47,500	B4 U0 G3	35,200	B3 U0 G3	47,500	B4 U0 G3
65L	59,300	B4 U0 G3	61,800	B4 U0 G3	45,700	B4 U0 G3	61,800	B4 U0 G3
75L	68,400	B4 U0 G4	71,300	B4 U0 G4	52,800	B4 U0 G3	71,300	B4 U0 G4
85L	77,400	B4 U0 G4	80,800	B5 U0 G4	59,800	B4 U0 G3	80,800	B5 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.
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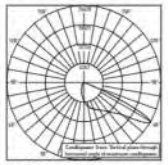
OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort® Technology – Version C

Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

AB



RESTL Test Report #: PL19107-001A
Configured
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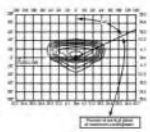
Initial Delivered Lumens: 19,600



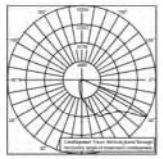
OSQL-C-30L-40K7-AB-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 19,600
Initial FC at grade

Automotive FrontLineOptic™ w/BLS Distribution (factory-installed)

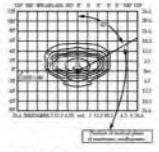
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	2,510	B0 U0 G0	2,620	B0 U0 G0	1,940	B0 U0 G0	2,620	B0 U0 G0
6L	3,760	B1 U0 G0	3,920	B1 U0 G0	2,900	B1 U0 G0	3,920	B1 U0 G0
9L	5,650	B1 U0 G0	5,875	B1 U0 G0	4,350	B1 U0 G0	5,875	B1 U0 G0
11L	6,900	B1 U0 G1	7,200	B1 U0 G1	5,325	B1 U0 G0	7,200	B1 U0 G1
16L	10,075	B1 U0 G1	10,450	B1 U0 G1	7,750	B1 U0 G1	10,450	B1 U0 G1
22L	13,800	B2 U0 G1	14,375	B2 U0 G1	10,650	B1 U0 G1	14,375	B2 U0 G1
30L	18,800	B2 U0 G2	19,600	B2 U0 G2	14,525	B2 U0 G1	19,600	B2 U0 G2
40L	25,100	B3 U0 G2	26,200	B3 U0 G2	19,400	B2 U0 G2	26,200	B3 U0 G2
50L	31,400	B3 U0 G2	32,700	B3 U0 G2	24,200	B3 U0 G2	32,700	B3 U0 G2
65L	40,800	B3 U0 G2	42,500	B3 U0 G2	31,500	B3 U0 G2	42,500	B3 U0 G2
75L	47,100	B3 U0 G3	49,000	B3 U0 G3	36,300	B3 U0 G2	49,000	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

AF W/OSQ-*-C-BLSF



RESTL Test Report #: PL18188-001A
Configured
OSQL-C-xxL-40K7-AF-UL-xx-xx-xx w/OSQ-L-C-BLSF
Initial Delivered Lumens: 16,400



OSQL-C-30L-40K7-AF-UL w/OSQ-L-C-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 16,400
Initial FC at grade

Automotive FrontLineOptic™ w/OSQ-*-C-BLSF (field-installed)

Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	2,100	B0 U0 G1	2,180	B0 U0 G1	1,610	B0 U0 G1	2,180	B0 U0 G1
6L	3,140	B1 U0 G1	3,270	B1 U0 G1	2,420	B0 U0 G1	3,270	B1 U0 G1
9L	4,770	B1 U0 G1	4,910	B1 U0 G1	3,630	B1 U0 G1	4,910	B1 U0 G1
11L	5,750	B1 U0 G1	6,000	B1 U0 G1	4,450	B1 U0 G1	6,000	B1 U0 G1
16L	8,600	B1 U0 G1	8,725	B1 U0 G1	6,475	B1 U0 G1	8,725	B1 U0 G1
22L	11,550	B1 U0 G1	12,000	B1 U0 G1	8,900	B1 U0 G1	12,000	B1 U0 G1
30L	15,700	B2 U0 G2	16,400	B2 U0 G2	12,100	B1 U0 G1	16,400	B2 U0 G2
40L	21,000	B2 U0 G2	21,800	B2 U0 G2	16,100	B2 U0 G2	21,800	B2 U0 G2
50L	26,200	B3 U0 G2	27,300	B3 U0 G2	20,200	B2 U0 G2	27,300	B3 U0 G2
65L	34,900	B3 U0 G2	36,500	B3 U0 G3	26,900	B3 U0 G2	36,500	B3 U0 G3
75L	39,300	B3 U0 G3	40,900	B3 U0 G3	30,300	B3 U0 G2	40,900	B3 U0 G3
85L	44,500	B3 U0 G3	46,400	B3 U0 G3	34,300	B3 U0 G2	46,400	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.
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Website: creelighting.com
US: (800) 236-6800 **Canada:** (800) 473-1234

CREE LIGHTING

Photometry

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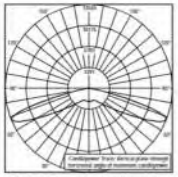
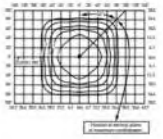
5L





RESTL Test Report #: PL18074-001A Configured
OSQL-C-xxL-40K7-5L-UL-xx-xx-xx
Initial Delivered Lumens: 30,000

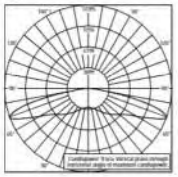
OSQL-C-30L-40K7-5L-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 30,000
Initial FC at grade

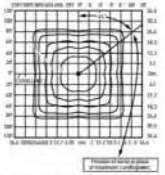
Type V Long Distribution

Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	3,840	B2 U0 G1	4,000	B3 U0 G1	2,960	B2 U0 G1	4,000	B3 U0 G1
6L	5,750	B3 U0 G1	6,000	B3 U0 G1	4,440	B3 U0 G1	6,000	B3 U0 G1
9L	8,650	B3 U0 G2	9,000	B3 U0 G2	6,650	B3 U0 G1	9,000	B3 U0 G2
11L	10,550	B4 U0 G2	11,000	B4 U0 G2	8,150	B3 U0 G2	11,000	B4 U0 G2
16L	15,400	B4 U0 G2	16,000	B4 U0 G2	11,850	B4 U0 G2	16,000	B4 U0 G2
22L	21,100	B5 U0 G3	22,000	B5 U0 G3	16,300	B4 U0 G2	22,000	B5 U0 G3
30L	28,800	B5 U0 G3	30,000	B5 U0 G4	22,200	B5 U0 G3	30,000	B5 U0 G4
40L	38,400	B5 U0 G4	40,000	B5 U0 G4	29,600	B5 U0 G3	40,000	B5 U0 G4
50L	48,000	B5 U0 G5	50,000	B5 U0 G5	37,000	B5 U0 G3	50,000	B5 U0 G5
65L	62,400	B5 U0 G5	65,000	B5 U0 G5	48,100	B5 U0 G5	65,000	B5 U0 G5
75L	72,000	B5 U0 G5	75,000	B5 U0 G5	55,500	B5 U0 G5	75,000	B5 U0 G5
85L	81,600	B5 U0 G5	85,000	B5 U0 G5	62,900	B5 U0 G5	85,000	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

5M





RESTL Test Report #: PL17909-001A
Configured
OSQL-C-xxL-30K7-5M-UL-xx-xx-xx
Initial Delivered Lumens: 28,800

OSQL-C-30L-30K7-5M-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 28,800
Initial FC at grade

Type V Mid Distribution

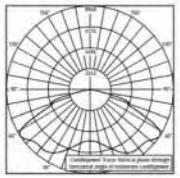
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	3,840	B2 U0 G1	4,000	B2 U0 G1	2,960	B2 U0 G1	4,000	B2 U0 G1
6L	5,750	B2 U0 G1	6,000	B3 U0 G1	4,440	B2 U0 G1	6,000	B3 U0 G1
9L	8,650	B3 U0 G2	9,000	B3 U0 G2	6,650	B3 U0 G1	9,000	B3 U0 G2
11L	10,550	B3 U0 G2	11,000	B3 U0 G2	8,150	B3 U0 G1	11,000	B3 U0 G2
16L	15,400	B4 U0 G2	16,000	B4 U0 G2	11,850	B4 U0 G2	16,000	B4 U0 G2
22L	21,100	B4 U0 G2	22,000	B4 U0 G2	16,300	B4 U0 G2	22,000	B4 U0 G2
30L	28,800	B5 U0 G3	30,000	B5 U0 G3	22,200	B4 U0 G2	30,000	B5 U0 G3
40L	38,400	B5 U0 G4	40,000	B5 U0 G4	29,600	B5 U0 G3	40,000	B5 U0 G4
50L	48,000	B5 U0 G4	50,000	B5 U0 G4	37,000	B5 U0 G4	50,000	B5 U0 G4
65L	62,400	B5 U0 G5	65,000	B5 U0 G5	48,100	B5 U0 G4	65,000	B5 U0 G5
75L	72,000	B5 U0 G5	75,000	B5 U0 G5	55,500	B5 U0 G4	75,000	B5 U0 G5
85L	81,600	B5 U0 G5	85,000	B5 U0 G5	62,900	B5 U0 G5	85,000	B5 U0 G5

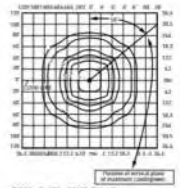
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: https://creelighting.com/products/outdoor/area/osq-series

5N





RESTL Test Report #: PL17911-001A
Configured
OSQL-C-xxL-30K7-5N-UL-xx-xx-xx
Initial Delivered Lumens: 28,800

OSQL-C-30L-30K7-5N-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 28,800
Initial FC at grade

Type V Narrow Distribution

Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
4L	3,840	B2 U0 G0	4,000	B2 U0 G0	2,960	B1 U0 G0	4,000	B2 U0 G0
6L	5,750	B2 U0 G1	6,000	B2 U0 G1	4,440	B2 U0 G0	6,000	B2 U0 G1
9L	8,650	B3 U0 G1	9,000	B3 U0 G1	6,650	B2 U0 G1	9,000	B3 U0 G1
11L	10,550	B3 U0 G1	11,000	B3 U0 G1	8,150	B2 U0 G1	11,000	B3 U0 G1
16L	15,400	B3 U0 G2	16,000	B3 U0 G2	11,850	B3 U0 G1	16,000	B3 U0 G2
22L	21,100	B4 U0 G2	22,000	B4 U0 G2	16,300	B3 U0 G2	22,000	B4 U0 G2
30L	28,800	B4 U0 G2	30,000	B4 U0 G2	22,200	B4 U0 G2	30,000	B4 U0 G2
40L	38,400	B5 U0 G2	40,000	B5 U0 G2	29,600	B4 U0 G2	40,000	B5 U0 G2
50L	48,000	B5 U0 G3	50,000	B5 U0 G3	37,000	B5 U0 G2	50,000	B5 U0 G3
65L	62,400	B5 U0 G4	65,000	B5 U0 G4	48,100	B5 U0 G3	65,000	B5 U0 G4
75L	72,000	B5 U0 G4	75,000	B5 U0 G4	55,500	B5 U0 G3	75,000	B5 U0 G4
85L	81,600	B5 U0 G4	85,000	B5 U0 G4	62,900	B5 U0 G4	85,000	B5 U0 G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf. Valid with no tilt

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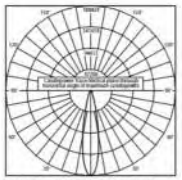

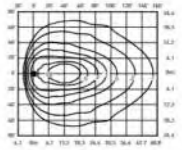

RESTL Test Report #: PL17450-001A
OSQL-C-40L-40K7-33-UL-xx-xx-xx
Initial Delivered Lumens: 36,102

OSQL-C-40L-40K7-33-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 40,000
Initial FC at grade

NEMA® 3x3 Distribution

Lumen Package	3000K (70 CRI) Initial Delivered Lumens*	4000K (70 CRI) Initial Delivered Lumens*	5000K (90CRI) Initial Delivered Lumens*	5700K (70 CRI) Initial Delivered Lumens*
4L	3,840	4,000	2,960	4,000
6L	5,750	6,000	4,440	6,000
9L	8,650	9,000	6,650	9,000
11L	10,550	11,000	8,150	11,000
16L	15,400	16,000	11,850	16,000
22L	21,100	22,000	16,300	22,000
30L	28,800	30,000	22,200	30,000
40L	38,400	40,000	29,600	40,000
50L	48,000	50,000	37,000	50,000
65L	62,400	65,000	48,100	65,000
75L	72,000	75,000	55,500	75,000
85L	81,600	85,000	62,900	85,000

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

Photometry

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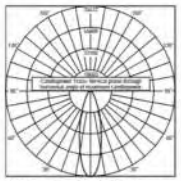
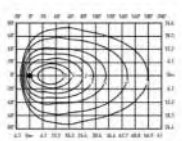


RESTL Test Report #: PL17748-001A
OSQL-C-40L-30K7-44-UL-xx-xx-xx
Initial Delivered Lumens: 35,349

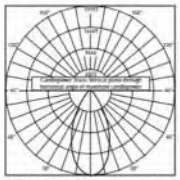


OSQL-C-40L-40K7-44-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 40,000
Initial FC at grade

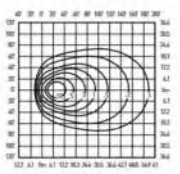
NEMA® 4x4 Distribution				
Lumen Package	3000K (70 CRI) Initial Delivered Lumens*	4000K (70 CRI) Initial Delivered Lumens*	5000K (90CRI) Initial Delivered Lumens*	5700K (70 CRI) Initial Delivered Lumens*
4L	3,840	4,000	2,960	4,000
6L	5,750	6,000	4,440	6,000
9L	8,650	9,000	6,650	9,000
11L	10,550	11,000	8,150	11,000
16L	15,400	16,000	11,850	16,000
22L	21,100	22,000	16,300	22,000
30L	28,800	30,000	22,200	30,000
40L	38,400	40,000	29,600	40,000
50L	48,000	50,000	37,000	50,000
65L	62,400	65,000	48,100	65,000
75L	72,000	75,000	55,500	75,000
85L	81,600	85,000	62,900	85,000

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

55



RESTL Test Report #: PL17771-001A
OSQL-C-40L-30K7-55-UL-xx-xx-xx
Initial Delivered Lumens: 37,424



OSQL-C-40L-40K7-55-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 40,000
Initial FC at grade

NEMA® 5x5 Distribution				
Lumen Package	3000K (70 CRI) Initial Delivered Lumens*	4000K (70 CRI) Initial Delivered Lumens*	5000K (90CRI) Initial Delivered Lumens*	5700K (70 CRI) Initial Delivered Lumens*
4L	3,840	4,000	2,960	4,000
6L	5,750	6,000	4,440	6,000
9L	8,650	9,000	6,650	9,000
11L	10,550	11,000	8,150	11,000
16L	15,400	16,000	11,850	16,000
22L	21,100	22,000	16,300	22,000
30L	28,800	30,000	22,200	30,000
40L	38,400	40,000	29,600	40,000
50L	48,000	50,000	37,000	50,000
65L	62,400	65,000	48,100	65,000
75L	72,000	75,000	55,500	75,000
85L	81,600	85,000	62,900	85,000

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort® Technology – Version C

Photometry

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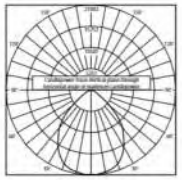
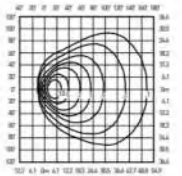
66



RESTL Test Report #: PL17639-001A
OSQL-C-40L-30K7-66-UL-xx-xx-xx
Initial Delivered Lumens: 37,525



OSQL-C-40L-40K7-66-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 40,000
Initial FC at grade

NEMA® 6x6 Distribution				
Lumen Package	3000K (70 CRI) Initial Delivered Lumens*	4000K (70 CRI) Initial Delivered Lumens*	5000K (90CRI) Initial Delivered Lumens*	5700K (70 CRI) Initial Delivered Lumens*
4L	3,840	4,000	2,960	4,000
6L	5,750	6,000	4,440	6,000
9L	8,650	9,000	6,650	9,000
11L	10,550	11,000	8,150	11,000
16L	15,400	16,000	11,850	16,000
22L	21,100	22,000	16,300	22,000
30L	28,800	30,000	22,200	30,000
40L	38,400	40,000	29,600	40,000
50L	48,000	50,000	37,000	50,000
65L	62,400	65,000	48,100	65,000
75L	72,000	75,000	55,500	75,000
85L	81,600	85,000	62,900	85,000

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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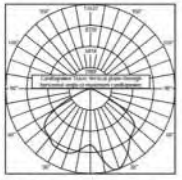
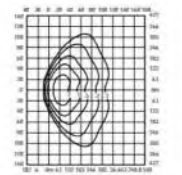


RESTL Test Report #: PL17921-001A
OSQM-C-16L-40K7-75-UL-xx-xx-xx
Initial Delivered Lumens: 16,933



OSQL-C-16L-40K7-75-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 16,000
Initial FC at grade

NEMA® 7x5 Distribution				
Lumen Package	3000K (70 CRI) Initial Delivered Lumens*	4000K (70 CRI) Initial Delivered Lumens*	5000K (90CRI) Initial Delivered Lumens*	5700K (70 CRI) Initial Delivered Lumens*
4L	3,840	4,000	2,960	4,000
6L	5,750	6,000	4,440	6,000
9L	8,650	9,000	6,650	9,000
11L	10,550	11,000	8,150	11,000
16L	15,400	16,000	11,850	16,000
22L	21,100	22,000	16,300	22,000
30L	28,800	30,000	22,200	30,000
40L	38,400	40,000	29,600	40,000
50L	48,000	50,000	37,000	50,000
65L	62,400	65,000	48,100	65,000
75L	72,000	75,000	55,500	75,000
85L	81,600	85,000	62,900	85,000

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

Website: creelighting.com
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CREE LIGHTING

Y1

Luminaire EPA

Adjustable Arm Mount – OSQ-ML-C-AA Weight: Medium - 19.3 lbs. (8.8kg), Large - 28.4 lbs. (12.9kg), **OSQ-X-C-AA** Weight: Extra Large - 48.6 lbs. (22kg)

Luminaire	Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 180°	4 @ 90°
	Tenon Configuration (0°–90° Tilt); If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
	PB-1A*, PT-1*, PW-1A3**	PB-3A*, PB-2R2.375; PD-2A4(180)*; PT-2(180)*; PW-2A3**	PB-2A*, PB-2R2.375; PD-2A4(90)*; PT-2(90)*; PW-2A3**	PB-3A*, PB-3R2.375; PD-3A4(90)*; PT-3(90)*	PB-3A*, PB-3R2.375; PT-3(120)*	PB-3A*, PB-3R2.375	PB-4A*(180), PB-4R2.375	PB-4A*(90); PB-4R2.375; PD-4A4(90)*; PT-4(90)*
	0° Tilt							
OSQM	0.69	1.38	1.11	1.80	2.01	1.38	1.73	2.22
OSQL	0.79	1.55	1.30	2.07	2.33	1.55	1.94	2.60
OSQX	0.98	1.95	1.65	2.63	2.97	1.95	2.44	3.31
	45° Tilt							
OSQM	1.41	2.81	2.10	3.50	4.23	4.22	5.63	4.19
OSQL	2.62	5.23	3.39	6.01	6.91	7.85	10.46	6.79
OSQX	4.35	8.70	5.33	9.68	9.65	13.05	17.40	10.66
	90° Tilt* **							
OSQM	1.89	3.79	2.58	4.48	5.56	5.68	7.57	5.17
OSQL	3.52	7.03	4.29	7.81	9.14	10.55	14.07	8.59
OSQX	5.86	11.68	6.80	12.66	12.78	17.57	23.36	13.63

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")
*** PD-2A4(90), PT-2(90), PD-3A4(90), PT-3(90), PD-4A4(90), PT-4(90) are not compatible with 90 degree tilt
+ PT & PD aluminum tenons are not suitable for use with OSQX luminaires.

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None
XA-TMDA8	0.19

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets[1] (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180° Twin
PB-3A* – 180° Triple
PB-4A*(90) – 90° Quad
PB-4A*(180) – 180° Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles
- Not for use with OSQX luminaires

PD-2A4(90) – 90° Twin
PD-2A4(180) – 180° Twin
PD-3A4(90) – 90° Triple
PD-4A4(90) – 90° Quad

Wall Mount Brackets
- Mounts to wall or roof

WM-2 – Horizontal for OSQ-ML-C-AA or OSQ-X-C-AA mounts
WM-4 – L-Shape for OSQ-ML-C-AA or OSQ-X-C-AA mounts
WM-DM – Plate for OSQ-ML-C-DA mount

Direct Arm Pole Adapter Bracket
- Mounts to 3-6" (76-152mm) round or square aluminum or steel poles
- May be used with OSQX luminaires in 1.5G applications only

XA-TMDA8

Round External Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Round External Mount Horizontal Tenons (Aluminum)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon
- Not for use with OSQX luminaires

PT-1 – Single (Vertical)
PT-2(90) – 90° Twin
PT-2(180) – 180° Twin
PT-3(90) – 90° Triple
PT-3(120) – 120° Triple
PT-4(90) – 90° Quad

Mid-Pole Bracket
- Mounts to square pole

PW-1A3** – Single
PW-2A3** – Double

Ground Mount Post
- For ground-mounted flood luminaires

PGM-1 – for OSQ-ML-C-AA or OSQ-X-C-AA mounts

[1] Refer to the Bracket and Tenons spec sheet for more details
* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** Specify pole size: (3) for 3", (4) for 4", (5) for 5", or (6) for 6"

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CREE LIGHTING

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort® Technology – Version C

Luminaire EPA

Direct Arm Mount – OSQ-ML-C-DA Weight: Medium - 19.7 lbs. (8.9kg), Large - 28.8 lbs. (13.1kg), **OSQ-X-C-DA** Weight: Extra Large - 45.8 lbs. (20.8kg)

Luminaire	Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	4 @ 90°
OSQM	0.63	1.24	0.98	1.41	1.79	1.97
OSQL	0.72	1.45	1.24	1.97	2.23	2.49
OSQX	0.91	1.83	1.52	2.43	2.74	3.04

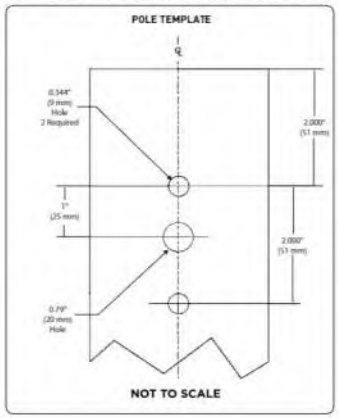
Direct Mount Configurations

Compatibility with Direct Mount Brackets

Size	2 @ 90°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
3" Square					
Medium/Large	✓	✓	✓	N/A	✓
Extra Large	N/A	✓	N/A	N/A	N/A
3" Round					
Medium/Large	N/A	✓	N/A	✓	N/A
Extra Large	N/A	N/A	N/A	N/A	N/A
4" Square					
Medium/Large	✓	✓	✓	N/A	✓
Extra Large	✓	✓	✓	N/A	✓
4" Round					
Medium/Large	✓	✓	✓	✓	✓
Extra Large	✓	✓	✓	✓	✓
5" Square					
Medium/Large	✓	✓	✓	N/A	✓
Extra Large	✓	✓	✓	N/A	✓
5" Round					
Medium/Large	✓	✓	✓	✓	✓
Extra Large	✓	✓	✓	✓	✓
6" + Square					
Medium/Large	✓	✓	✓	N/A	✓
Extra Large	✓	✓	✓	N/A	✓
6" + Round					
Medium/Large	✓	✓	✓	✓	✓
Extra Large	✓	✓	✓	✓	✓

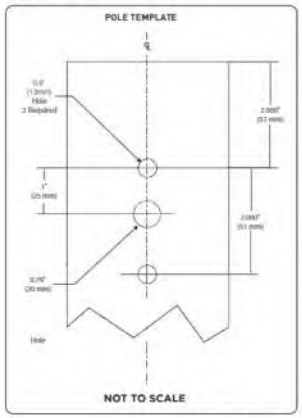
Fixture Mounting Drill Pattern for OSQ-ML-C-DA Mount

Note: When using with Cree Lighting poles, order the BLANK Fixture Mounting Drill Pattern.



Fixture Mounting Drill Pattern for OSQ-X-C-DA

Note: When using with Cree Lighting poles, order the Q Fixture Mounting Drill Pattern.



Luminaire EPA

Trunnion Mount – OSQ-ML-C-TM Weight: Medium - 23.2 lbs. (10.5kg), Large - 32.3 lbs. (14.7kg)

Single	
Medium	**Large**
0° Tilt	
0.69	0.78
45° Tilt	
1.41	2.62
90° Tilt	
1.89	3.52

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CREE LIGHTING

Y1

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings. When ordered with the N option, the luminaire will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (rounded to nearest 1000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others). When ordered with the N option, the luminaire will include a utility label that indicates the wattage, lumen output, and CCT of the setting selected.

Q & X Option Power & Lumen Data – 4L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-277V	Lumen Values					Utility Label Wattage	Utility Label Lumens			
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)	Asymmetric Lumens w/ External BLS		Asymmetric / Asymmetric w/ External BLS	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)
Q9 (Full Power)	30K (70 CRI)	26	3,650	3,840	2,510	2,300	2,100	30	4000 L	4000 L	3000 L	2000 L
	40K (70 CRI)		3,800	4,000	2,620	2,400	2,190		4000 L	4000 L	3000 L	2000 L
	50K (90 CRI)		2,810	2,960	1,940	1,770	1,610		3000 L	3000 L	2000 L	2000 L
	57K (70 CRI)		3,800	4,000	2,620	2,400	2,190		4000 L	4000 L	3000 L	2000 L
Q8/X8	30K (70 CRI)	24	3,480	3,660	2,390	2,190	2,000	20	3000 L	4000 L	2000 L	2000 L
	40K (70 CRI)		3,630	3,820	2,500	2,290	2,090		4000 L	4000 L	3000 L	2000 L
	50K (90 CRI)		2,680	2,820	1,840	1,690	1,540		3000 L	3000 L	2000 L	2000 L
	57K (70 CRI)		3,630	3,820	2,500	2,290	2,090		4000 L	4000 L	3000 L	2000 L
Q7/X7	30K (70 CRI)	23	3,340	3,510	2,300	2,100	1,920	20	3000 L	4000 L	2000 L	2000 L
	40K (70 CRI)		3,480	3,660	2,390	2,190	2,000		3000 L	4000 L	2000 L	2000 L
	50K (90 CRI)		2,580	2,710	1,770	1,620	1,480		3000 L	3000 L	2000 L	2000 L
	57K (70 CRI)		3,480	3,660	2,390	2,190	2,000		3000 L	4000 L	2000 L	2000 L
Q6/X6	30K (70 CRI)	22	3,220	3,390	2,220	2,030	1,850	20	3000 L	3000 L	2000 L	2000 L
	40K (70 CRI)		3,360	3,540	2,310	2,120	1,930		3000 L	4000 L	2000 L	2000 L
	50K (90 CRI)		2,490	2,620	1,710	1,570	1,430		2000 L	3000 L	2000 L	2000 L
	57K (70 CRI)		3,360	3,540	2,310	2,120	1,930		3000 L	4000 L	2000 L	2000 L
Q5/X5	30K (70 CRI)	20	2,950	3,100	2,030	1,860	1,690	20	3000 L	3000 L	2000 L	2000 L
	40K (70 CRI)		3,070	3,230	2,110	1,930	1,760		3000 L	3000 L	2000 L	2000 L
	50K (90 CRI)		2,270	2,390	1,560	1,430	1,300		2000 L	2000 L	2000 L	1000 L
	57K (70 CRI)		3,070	3,230	2,110	1,930	1,760		3000 L	3000 L	2000 L	2000 L
Q4/X4	30K (70 CRI)	18	2,680	2,820	1,840	1,690	1,540	20	3000 L	3000 L	2000 L	2000 L
	40K (70 CRI)		2,790	2,940	1,920	1,760	1,600		3000 L	3000 L	2000 L	2000 L
	50K (90 CRI)		2,060	2,170	1,420	1,300	1,180		2000 L	2000 L	1000 L	1000 L
	57K (70 CRI)		2,790	2,940	1,920	1,760	1,600		3000 L	3000 L	2000 L	2000 L
Q3/X3	30K (70 CRI)	16	2,470	2,600	1,700	1,560	1,420	20	2000 L	3000 L	2000 L	2000 L
	40K (70 CRI)		2,580	2,710	1,770	1,620	1,480		3000 L	3000 L	2000 L	2000 L
	50K (90 CRI)		1,910	2,010	1,310	1,200	1,100		2000 L	2000 L	1000 L	1000 L
	57K (70 CRI)		2,580	2,710	1,770	1,620	1,480		3000 L	3000 L	2000 L	2000 L
Q2/X2	30K (70 CRI)	15	2,220	2,340	1,530	1,400	1,270	20	2000 L	2000 L	2000 L	1000 L
	40K (70 CRI)		2,320	2,440	1,600	1,460	1,320		2000 L	2000 L	2000 L	1000 L
	50K (90 CRI)		1,720	1,810	1,180	1,080	990		2000 L	2000 L	1000 L	1000 L
	57K (70 CRI)		2,320	2,440	1,600	1,460	1,320		2000 L	2000 L	2000 L	1000 L
Q1/X1	30K (70 CRI)	13	1,970	2,070	1,350	1,240	1,130	10	2000 L	2000 L	1000 L	1000 L
	40K (70 CRI)		2,050	2,160	1,410	1,290	1,180		2000 L	2000 L	1000 L	1000 L
	50K (90 CRI)		1,520	1,600	1,050	960	870		2000 L	2000 L	1000 L	1000 L
	57K (70 CRI)		2,050	2,160	1,410	1,290	1,180		2000 L	2000 L	1000 L	1000 L

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort® Technology – Version C

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings. When ordered with the N option, the luminaire will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (rounded to nearest 1000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others). When ordered with the N option, the luminaire will include a utility label that indicates the wattage, lumen output, and CCT of the setting selected.

Q & X Option Power & Lumen Data – 6L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-277V	Lumen Values					Utility Label Wattage	Utility Label Lumens			
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)	Asymmetric Lumens w/External BLS		Asymmetric / Asymmetric w/ External BLS	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)
Q9 (Full Power)	30K (70 CRI)	37	5,475	5,750	3,760	3,440	3,140	40	5000 L	6000 L	4000 L	3000 L
	40K (70 CRI)		5,700	6,000	3,920	3,590	3,270		6000 L	6000 L	4000 L	4000 L
	50K (90 CRI)		4,220	4,440	2,900	2,660	2,420		4000 L	4000 L	3000 L	3000 L
	57K (70 CRI)		5,700	6,000	3,920	3,590	3,270		6000 L	6000 L	4000 L	4000 L
Q8/X8	30K (70 CRI)	34	5,200	5,475	3,580	3,280	2,980	40	5000 L	5000 L	4000 L	3000 L
	40K (70 CRI)		5,450	5,725	3,740	3,430	3,130		5000 L	6000 L	4000 L	3000 L
	50K (90 CRI)		4,030	4,240	2,770	2,540	2,310		4000 L	4000 L	3000 L	3000 L
	57K (70 CRI)		5,450	5,725	3,740	3,430	3,130		5000 L	6000 L	4000 L	3000 L
Q7/X7	30K (70 CRI)	34	4,990	5,250	3,430	3,140	2,860	30	5000 L	5000 L	3000 L	3000 L
	40K (70 CRI)		5,200	5,475	3,580	3,280	2,980		5000 L	5000 L	4000 L	3000 L
	50K (90 CRI)		3,860	4,060	2,650	2,430	2,220		4000 L	4000 L	3000 L	2000 L
	57K (70 CRI)		5,200	5,475	3,580	3,280	2,980		5000 L	5000 L	4000 L	3000 L
Q6/X6	30K (70 CRI)	32	4,820	5,075	3,320	3,040	2,770	30	5000 L	5000 L	3000 L	3000 L
	40K (70 CRI)		5,050	5,300	3,470	3,170	2,930		5000 L	5000 L	3000 L	3000 L
	50K (90 CRI)		3,730	3,920	2,560	2,350	2,140		4000 L	4000 L	3000 L	2000 L
	57K (70 CRI)		5,050	5,300	3,470	3,170	2,930		5000 L	5000 L	3000 L	3000 L
Q5/X5	30K (70 CRI)	29	4,420	4,650	3,040	2,780	2,540	30	4000 L	5000 L	3000 L	3000 L
	40K (70 CRI)		4,610	4,850	3,170	2,900	2,650		5000 L	5000 L	3000 L	3000 L
	50K (90 CRI)		3,410	3,590	2,350	2,150	1,960		3000 L	4000 L	2000 L	2000 L
	57K (70 CRI)		4,610	4,850	3,170	2,900	2,650		5000 L	5000 L	3000 L	3000 L
Q4/X4	30K (70 CRI)	27	4,010	4,220	2,760	2,530	2,300	30	4000 L	4000 L	3000 L	3000 L
	40K (70 CRI)		4,180	4,400	2,880	2,640	2,400		4000 L	4000 L	3000 L	3000 L
	50K (90 CRI)		3,100	3,260	2,130	1,950	1,780		3000 L	3000 L	2000 L	2000 L
	57K (70 CRI)		4,180	4,400	2,880	2,640	2,400		4000 L	4000 L	3000 L	3000 L
Q3/X3	30K (70 CRI)	24	3,710	3,900	2,550	2,340	2,130	20	4000 L	4000 L	3000 L	2000 L
	40K (70 CRI)		3,870	4,070	2,660	2,440	2,220		4000 L	4000 L	3000 L	2000 L
	50K (90 CRI)		2,860	3,010	1,970	1,800	1,640		3000 L	3000 L	2000 L	2000 L
	57K (70 CRI)		3,870	4,070	2,660	2,440	2,220		4000 L	4000 L	3000 L	2000 L
Q2/X2	30K (70 CRI)	21	3,340	3,510	2,300	2,100	1,920	20	3000 L	4000 L	2000 L	2000 L
	40K (70 CRI)		3,480	3,660	2,390	2,190	2,000		3000 L	4000 L	2000 L	2000 L
	50K (90 CRI)		2,580	2,710	1,770	1,620	1,480		3000 L	3000 L	2000 L	2000 L
	57K (70 CRI)		3,480	3,660	2,390	2,190	2,000		3000 L	4000 L	2000 L	2000 L
Q1/X1	30K (70 CRI)	19	2,950	3,100	2,030	1,860	1,690	20	3000 L	3000 L	2000 L	2000 L
	40K (70 CRI)		3,070	3,230	2,110	1,930	1,760		3000 L	3000 L	2000 L	2000 L
	50K (90 CRI)		2,270	2,390	1,560	1,430	1,300		2000 L	2000 L	2000 L	1000 L
	57K (70 CRI)		3,070	3,230	2,110	1,930	1,760		3000 L	3000 L	2000 L	2000 L

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CREE LIGHTING

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings. When ordered with the N option, the luminaire will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (rounded to nearest 1000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others). When ordered with the N option, the luminaire will include a utility label that indicates the wattage, lumen output, and CCT of the setting selected.

Q & X Option Power & Lumen Data – 9L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-277V	Lumen Values					Utility Label Wattage	Utility Label Lumens			
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)	Asymmetric Lumens w/External BLS		Asymmetric / Asymmetric w/ External BLS	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)
Q9 (Full Power)	30K (70 CRI)	55	8,225	8,650	5,460	5,175	4,720	60	8000 L	9000 L	6000 L	5000 L
	40K (70 CRI)		8,550	9,000	5,875	5,400	4,910		9000 L	9000 L	6000 L	5000 L
	50K (90 CRI)		4,325	4,650	4,350	2,980	3,430		6000 L	7000 L	4000 L	4000 L
	57K (70 CRI)		8,550	9,000	5,875	5,400	4,910		9000 L	9000 L	6000 L	5000 L
Q8/X8	30K (70 CRI)	53	7,850	8,250	5,400	4,940	4,510	50	8000 L	8000 L	5000 L	5000 L
	40K (70 CRI)		8,150	8,575	5,600	5,125	4,680		8000 L	9000 L	6000 L	5000 L
	50K (90 CRI)		4,025	4,350	4,150	3,800	3,440		6000 L	6000 L	4000 L	4000 L
	57K (70 CRI)		8,150	8,575	5,600	5,125	4,680		8000 L	9000 L	6000 L	5000 L
Q7/X7	30K (70 CRI)	50	7,500	7,900	5,175	4,730	4,310	50	8000 L	8000 L	5000 L	5000 L
	40K (70 CRI)		7,825	8,225	5,375	4,930	4,490		8000 L	8000 L	5000 L	5000 L
	50K (90 CRI)		5,775	6,075	3,970	3,640	3,310		6000 L	6000 L	4000 L	4000 L
	57K (70 CRI)		7,825	8,225	5,375	4,930	4,490		8000 L	8000 L	5000 L	5000 L
Q6/X6	30K (70 CRI)	48	7,275	7,650	5,000	4,580	4,180	50	7000 L	8000 L	5000 L	5000 L
	40K (70 CRI)		7,550	7,950	5,200	4,760	4,330		8000 L	8000 L	5000 L	5000 L
	50K (90 CRI)		5,575	5,875	3,860	3,520	3,200		6000 L	6000 L	4000 L	4000 L
	57K (70 CRI)		7,550	7,950	5,200	4,760	4,330		8000 L	8000 L	5000 L	5000 L
Q5/X5	30K (70 CRI)	43	6,650	7,000	4,580	4,190	3,820	40	7000 L	7000 L	5000 L	4000 L
	40K (70 CRI)		4,925	7,275	4,760	4,360	3,980		7000 L	7000 L	5000 L	4000 L
	50K (90 CRI)		5,100	5,375	3,510	3,220	2,930		5000 L	5000 L	4000 L	3000 L
	57K (70 CRI)		4,925	7,275	4,760	4,360	3,980		7000 L	7000 L	5000 L	4000 L
Q4/X4	30K (70 CRI)	40	6,025	6,250	4,150	3,800	3,440	40	6000 L	6000 L	4000 L	4000 L
	40K (70 CRI)		6,275	6,600	4,320	3,950	3,600		6000 L	7000 L	4000 L	4000 L
	50K (90 CRI)		4,440	4,880	3,190	2,920	2,660		5000 L	5000 L	3000 L	3000 L
	57K (70 CRI)		6,275	6,600	4,320	3,950	3,600		6000 L	7000 L	4000 L	4000 L
Q3/X3	30K (70 CRI)	36	5,575	5,875	3,860	3,520	3,200	40	6000 L	6000 L	4000 L	4000 L
	40K (70 CRI)		5,800	6,100	3,990	3,650	3,330		6000 L	6000 L	4000 L	4000 L
	50K (90 CRI)		4,290	4,510	2,950	2,700	2,460		4000 L	5000 L	3000 L	3000 L
	57K (70 CRI)		5,800	6,100	3,990	3,650	3,330		6000 L	6000 L	4000 L	4000 L
Q2/X2*	30K (70 CRI)	32	5,025	5,275	3,450	3,160	2,880	30	5000 L	5000 L	3000 L	3000 L
	40K (70 CRI)		5,225	5,500	3,600	3,290	3,000		5000 L	6000 L	4000 L	3000 L
	50K (90 CRI)		3,860	4,060	2,650	2,430	2,220		4000 L	4000 L	3000 L	2000 L
	57K (70 CRI)		5,225	5,500	3,600	3,290	3,000		5000 L	6000 L	4000 L	3000 L
Q1/X1*	30K (70 CRI)	29	4,430	4,660	3,050	2,790	2,540	30	4000 L	5000 L	3000 L	3000 L
	40K (70 CRI)		4,610	4,850	3,170	2,900	2,650		5000 L	5000 L	3000 L	3000 L
	50K (90 CRI)		3,600	3,580	2,340	2,140	1,950		3000 L	4000 L	2000 L	2000 L
	57K (70 CRI)		4,610	4,850	3,170	2,900	2,650		5000 L	5000 L	3000 L	3000 L

* X2 and X1 options not available with 9L lumen package with UL wattage.

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort® Technology – Version C

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings. When ordered with the N option, the luminaire will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (rounded to nearest 1000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others). When ordered with the N option, the luminaire will include a utility label that indicates the wattage, lumen output, and CCT of the setting selected.

Q & X Option Power & Lumen Data – 11L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-277V	Lumen Values					Utility Label Wattage	Utility Label Lumens			
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)	Asymmetric Lumens w/ External BLS		Asymmetric / Asymmetric w/ External BLS	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)
Q9 (Full Power)	30K (70 CRI)	68	10,025	10,550	6,900	6,325	5,750	70	10000 L	11000 L	7000 L	6000 L
	40K (70 CRI)		10,450	11,000	7,200	6,600	6,000		10000 L	11000 L	7000 L	7000 L
	50K (90 CRI)		7,750	8,150	5,325	4,880	4,450		9000 L	8000 L	5000 L	5000 L
	57K (70 CRI)		10,450	11,000	7,200	6,600	5,750		10000 L	11000 L	7000 L	7000 L
Q8/X8	30K (70 CRI)	65	9,575	10,075	6,600	6,025	5,500	70	10000 L	10000 L	7000 L	6000 L
	40K (70 CRI)		9,975	10,500	6,875	6,300	5,725		10000 L	11000 L	7000 L	6000 L
	50K (90 CRI)		7,400	7,775	5,075	4,640	4,250		7000 L	8000 L	5000 L	5000 L
	57K (70 CRI)		9,975	10,500	6,875	6,300	5,725		10000 L	11000 L	7000 L	6000 L
Q7/X7	30K (70 CRI)	62	9,175	9,650	6,300	5,775	5,275	60	9000 L	10000 L	6000 L	6000 L
	40K (70 CRI)		9,550	10,050	6,575	6,025	5,475		10000 L	10000 L	7000 L	6000 L
	50K (90 CRI)		7,075	7,450	4,870	4,460	4,060		7000 L	7000 L	5000 L	4000 L
	57K (70 CRI)		9,550	10,050	6,575	6,025	5,475		10000 L	10000 L	7000 L	6000 L
Q6/X6	30K (70 CRI)	59	8,875	9,325	6,100	5,575	5,100	60	9000 L	9000 L	6000 L	6000 L
	40K (70 CRI)		9,250	9,725	6,350	5,825	5,300		9000 L	10000 L	6000 L	6000 L
	50K (90 CRI)		6,850	7,200	4,710	4,310	3,930		7000 L	7000 L	5000 L	4000 L
	57K (70 CRI)		9,250	9,725	6,350	5,825	5,300		9000 L	10000 L	6000 L	6000 L
Q5/X5	30K (70 CRI)	53	8,100	8,525	5,575	5,100	4,650	50	8000 L	9000 L	6000 L	5000 L
	40K (70 CRI)		8,450	8,900	5,825	5,325	4,850		8000 L	9000 L	6000 L	5000 L
	50K (90 CRI)		6,250	6,575	4,300	3,940	3,590		6000 L	7000 L	4000 L	4000 L
	57K (70 CRI)		8,450	8,900	5,825	5,325	4,850		8000 L	9000 L	6000 L	5000 L
Q4/X4	30K (70 CRI)	49	7,375	7,750	5,075	4,640	4,230	50	7000 L	8000 L	5000 L	5000 L
	40K (70 CRI)		7,675	8,075	5,275	4,840	4,410		8000 L	8000 L	5000 L	5000 L
	50K (90 CRI)		5,675	5,975	3,910	3,580	3,260		6000 L	6000 L	4000 L	4000 L
	57K (70 CRI)		7,675	8,075	5,275	4,840	4,410		8000 L	8000 L	5000 L	5000 L
Q3/X3	30K (70 CRI)	44	6,800	7,150	4,680	4,280	3,900	40	7000 L	7000 L	5000 L	4000 L
	40K (70 CRI)		7,075	7,450	4,870	4,460	4,060		7000 L	7000 L	5000 L	4000 L
	50K (90 CRI)		5,250	5,525	3,610	3,310	3,010		5000 L	6000 L	4000 L	3000 L
	57K (70 CRI)		7,075	7,450	4,870	4,460	4,060		7000 L	7000 L	5000 L	4000 L
Q2/X2	30K (70 CRI)	39	6,100	6,425	4,200	3,850	3,500	40	6000 L	6000 L	4000 L	4000 L
	40K (70 CRI)		6,375	6,700	4,380	4,010	3,640		6000 L	7000 L	4000 L	4000 L
	50K (90 CRI)		4,720	4,970	3,250	2,980	2,710		5000 L	5000 L	3000 L	3000 L
	57K (70 CRI)		6,375	6,700	4,380	4,010	3,640		6000 L	7000 L	4000 L	4000 L
Q1/X1	30K (70 CRI)	35	5,400	5,675	3,710	3,400	3,100	40	5000 L	6000 L	4000 L	3000 L
	40K (70 CRI)		5,625	5,925	3,870	3,550	3,230		6000 L	6000 L	4000 L	4000 L
	50K (90 CRI)		4,170	4,390	2,870	2,630	2,390		4000 L	4000 L	3000 L	3000 L
	57K (70 CRI)		5,625	5,925	3,870	3,550	3,230		6000 L	6000 L	4000 L	4000 L

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CREE LIGHTING

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings. When ordered with the N option, the luminaire will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (rounded to nearest 1000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others). When ordered with the N option, the luminaire will include a utility label that indicates the wattage, lumen output, and CCT of the setting selected.

Q & X Option Power & Lumen Data – 16L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-277V	Lumen Values					Utility Label Wattage	Utility Label Lumens			
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)	Asymmetric Lumens w/External BLS		Asymmetric / Asymmetric w/ External BLS	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)
Q9 (Full Power)	30K (70 CRI)	97	14,650	15,400	10,075	9,225	8,600	100	15000 L	15000 L	10000 L	9000 L
	40K (70 CRI)		15,200	16,000	10,450	9,575	8,725		15000 L	16000 L	10000 L	10000 L
	50K (90 CRI)		11,275	11,850	7,750	7,100	6,475		11000 L	12000 L	8000 L	7000 L
	57K (70 CRI)		15,200	16,000	10,450	9,575	8,725		15000 L	16000 L	10000 L	10000 L
Q8/X8	30K (70 CRI)	93	13,975	14,700	9,600	8,800	8,025	90	14000 L	15000 L	10000 L	9000 L
	40K (70 CRI)		14,550	15,300	10,000	9,175	8,350		15000 L	15000 L	10000 L	9000 L
	50K (90 CRI)		10,750	11,300	7,400	6,775	6,175		11000 L	11000 L	7000 L	7000 L
	57K (70 CRI)		14,550	15,300	10,000	9,175	8,350		15000 L	15000 L	10000 L	9000 L
Q7/X7	30K (70 CRI)	87	13,275	14,075	9,200	8,425	7,675	90	13000 L	14000 L	9000 L	8000 L
	40K (70 CRI)		13,900	14,625	9,575	8,750	7,975		14000 L	15000 L	10000 L	9000 L
	50K (90 CRI)		10,300	10,825	7,075	6,475	5,900		10000 L	11000 L	7000 L	6000 L
	57K (70 CRI)		13,900	14,625	9,575	8,750	7,975		14000 L	15000 L	10000 L	9000 L
Q6/X6	30K (70 CRI)	86	12,950	13,625	8,900	8,150	7,425	80	13000 L	14000 L	9000 L	8000 L
	40K (70 CRI)		13,450	14,150	9,250	8,475	7,725		13000 L	14000 L	9000 L	8000 L
	50K (90 CRI)		9,950	10,475	6,850	6,275	5,700		10000 L	10000 L	7000 L	6000 L
	57K (70 CRI)		13,450	14,150	9,250	8,475	7,725		13000 L	14000 L	9000 L	8000 L
Q5/X5	30K (70 CRI)	76	11,825	12,450	8,150	7,450	6,800	80	12000 L	12000 L	8000 L	7000 L
	40K (70 CRI)		12,275	12,925	8,450	7,750	7,050		12000 L	13000 L	8000 L	8000 L
	50K (90 CRI)		9,100	9,575	6,250	5,725	5,225		9000 L	10000 L	6000 L	6000 L
	57K (70 CRI)		12,275	12,925	8,450	7,750	7,050		12000 L	13000 L	8000 L	8000 L
Q4/X4	30K (70 CRI)	70	10,750	11,300	7,400	6,775	6,175	70	11000 L	11000 L	7000 L	7000 L
	40K (70 CRI)		11,175	11,750	7,675	7,025	6,425		11000 L	12000 L	8000 L	7000 L
	50K (90 CRI)		8,275	8,700	5,700	5,200	4,750		8000 L	9000 L	6000 L	5000 L
	57K (70 CRI)		11,175	11,750	7,675	7,025	6,425		11000 L	12000 L	8000 L	7000 L
Q3/X3	30K (70 CRI)	62	9,925	10,450	6,825	6,250	5,700	60	10000 L	10000 L	7000 L	6000 L
	40K (70 CRI)		10,325	10,850	7,100	6,500	5,925		10000 L	11000 L	7000 L	7000 L
	50K (90 CRI)		7,625	8,025	5,250	4,810	4,380		8000 L	8000 L	5000 L	5000 L
	57K (70 CRI)		10,225	10,850	7,100	6,500	5,925		10000 L	11000 L	7000 L	7000 L
Q2/X2	30K (70 CRI)	55	8,925	9,400	6,150	5,625	5,125	60	9000 L	9000 L	6000 L	6000 L
	40K (70 CRI)		9,275	9,750	6,375	5,850	5,325		9000 L	10000 L	6000 L	6000 L
	50K (90 CRI)		6,875	7,225	4,720	4,330	3,950		7000 L	7000 L	5000 L	4000 L
	57K (70 CRI)		9,275	9,750	6,375	5,850	5,325		9000 L	10000 L	6000 L	6000 L
Q1*	30K (70 CRI)	50	7,900	8,300	5,425	4,970	4,530	50	8000 L	8000 L	5000 L	5000 L
	40K (70 CRI)		8,200	8,625	5,650	5,175	4,710		8000 L	9000 L	6000 L	5000 L
	50K (90 CRI)		6,050	6,375	4,170	3,820	3,470		6000 L	6000 L	4000 L	4000 L
	57K (70 CRI)		8,200	8,625	5,650	5,175	4,710		8000 L	9000 L	6000 L	5000 L

* A1 option not available with 16L lumen package.

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings. When ordered with the N option, the luminaire will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (rounded to nearest 1000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others). When ordered with the N option, the luminaire will include a utility label that indicates the wattage, lumen output, and CCT of the setting selected.

Q & X Option Power & Lumen Data – 22L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-277V	Lumen Values					Utility Label Wattage	Utility Label Lumens			
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-in-stalled BLS)	Asymmetric Lumens w/ External BLS		Asymmetric / Asymmetric w/ External BLS	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)
Q9 (Full Power)	30K (70 CRI)	131	20,100	21,100	13,800	12,625	11,550	130	20000 L	21000 L	14000 L	13000 L
	40K (70 CRI)		20,900	22,000	14,275	13,175	12,000		21000 L	22000 L	14000 L	13000 L
	50K (90 CRI)		15,500	16,300	10,650	9,750	8,900		16000 L	16000 L	11000 L	10000 L
	57K (70 CRI)		20,900	22,000	14,275	13,175	12,000		21000 L	22000 L	14000 L	13000 L
Q8/X8	30K (70 CRI)	124	19,100	20,100	13,150	12,050	10,975	130	19000 L	20000 L	13000 L	12000 L
	40K (70 CRI)		20,000	21,000	13,725	12,575	11,475		20000 L	21000 L	14000 L	13000 L
	50K (90 CRI)		14,825	15,600	10,200	9,350	8,500		15000 L	16000 L	10000 L	9000 L
	57K (70 CRI)		20,000	21,000	13,725	12,575	11,475		20000 L	21000 L	14000 L	13000 L
Q7/X7	30K (70 CRI)	119	18,300	19,200	12,625	11,550	10,500	120	18000 L	19000 L	13000 L	12000 L
	40K (70 CRI)		19,100	20,100	13,150	12,050	10,975		19000 L	20000 L	13000 L	12000 L
	50K (90 CRI)		14,175	14,900	9,750	8,925	8,125		14000 L	15000 L	10000 L	9000 L
	57K (70 CRI)		19,100	20,100	13,150	12,050	10,975		19000 L	20000 L	13000 L	12000 L
Q6/X6	30K (70 CRI)	114	17,800	18,700	12,225	11,200	10,225	110	18000 L	19000 L	12000 L	11000 L
	40K (70 CRI)		18,600	19,600	12,675	11,625	10,550		18000 L	19000 L	13000 L	12000 L
	50K (90 CRI)		13,700	14,400	9,425	8,625	7,875		14000 L	14000 L	9000 L	9000 L
	57K (70 CRI)		18,600	19,600	12,675	11,625	10,550		18000 L	19000 L	13000 L	12000 L
Q5/X5	30K (70 CRI)	103	16,200	17,000	11,125	10,175	9,300	100	16000 L	17000 L	11000 L	10000 L
	40K (70 CRI)		16,900	17,800	11,650	10,650	9,700		17000 L	18000 L	12000 L	11000 L
	50K (90 CRI)		12,525	13,175	8,625	7,900	7,200		13000 L	13000 L	9000 L	8000 L
	57K (70 CRI)		16,900	17,800	11,650	10,650	9,700		17000 L	18000 L	12000 L	11000 L
Q4/X4	30K (70 CRI)	95	14,725	15,500	10,125	9,275	8,450	100	15000 L	16000 L	10000 L	9000 L
	40K (70 CRI)		15,300	16,100	10,525	9,650	8,775		15000 L	16000 L	11000 L	10000 L
	50K (90 CRI)		11,375	11,975	7,825	7,175	6,525		11000 L	12000 L	8000 L	7000 L
	57K (70 CRI)		15,300	16,100	10,525	9,650	8,775		15000 L	16000 L	11000 L	10000 L
Q3/X3	30K (70 CRI)	84	13,600	14,300	9,250	8,575	7,800	80	14000 L	14000 L	9000 L	9000 L
	40K (70 CRI)		14,175	14,925	9,750	8,950	8,125		14000 L	15000 L	10000 L	9000 L
	50K (90 CRI)		10,500	11,050	7,225	6,625	6,025		11000 L	11000 L	7000 L	7000 L
	57K (70 CRI)		14,175	14,925	9,750	8,950	8,125		14000 L	15000 L	10000 L	9000 L
Q2/X2	30K (70 CRI)	75	12,250	12,875	8,425	7,700	7,025	80	12000 L	13000 L	8000 L	8000 L
	40K (70 CRI)		12,750	13,425	8,775	8,050	7,325		13000 L	13000 L	9000 L	8000 L
	50K (90 CRI)		9,450	9,950	6,500	5,950	5,425		9000 L	10000 L	7000 L	6000 L
	57K (70 CRI)		12,750	13,425	8,775	8,050	7,325		13000 L	13000 L	9000 L	8000 L
Q1/X1	30K (70 CRI)	48	10,825	11,375	7,450	6,825	6,225	70	11000 L	11000 L	7000 L	7000 L
	40K (70 CRI)		11,275	11,850	7,750	7,100	6,475		11000 L	12000 L	8000 L	7000 L
	50K (90 CRI)		8,350	8,775	5,750	5,250	4,790		8000 L	9000 L	6000 L	5000 L
	57K (70 CRI)		11,275	11,850	7,750	7,100	6,475		11000 L	12000 L	8000 L	7000 L

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CREE LIGHTING

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings. When ordered with the N option, the luminaire will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (+/- 24,000 lumens rounded to nearest 1000 lumens, > 24,001 lumens rounded to the nearest 2000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others). When ordered with the N option, the luminaire will include a utility label that indicates the wattage, lumen output, and CCT of the setting selected.

Q & X Option Power & Lumen Data – 30L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-277V	Lumen Values					Utility Label Wattage	Utility Label Lumens			
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)	Asymmetric Lumens w/ External BLS		Asymmetric / Asymmetric w/ External BLS	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)
Q9 (Full Power)	30K (70 CRI)	175	27,400	28,800	18,800	17,200	15,700	180	28000 L	28000 L	19000 L	17000 L
	40K (70 CRI)		28,500	30,000	19,600	18,000	16,400		29000 L	30000 L	20000 L	18000 L
	50K (90 CRI)		21,100	22,200	14,525	13,300	12,100		21000 L	22000 L	15000 L	13000 L
	57K (70 CRI)		28,500	30,000	19,600	18,000	16,400		29000 L	30000 L	20000 L	18000 L
Q8/X8	30K (70 CRI)	148	26,100	27,500	18,000	16,500	14,975	170	26000 L	28000 L	18000 L	17000 L
	40K (70 CRI)		27,200	28,600	18,700	17,100	15,600		28000 L	28000 L	19000 L	17000 L
	50K (90 CRI)		20,200	21,200	13,850	12,700	11,600		20000 L	21000 L	14000 L	13000 L
	57K (70 CRI)		27,200	28,600	18,700	17,100	15,600		28000 L	29000 L	19000 L	17000 L
Q7/X7	30K (70 CRI)	158	25,000	26,300	17,200	15,800	14,350	160	26000 L	26000 L	17000 L	16000 L
	40K (70 CRI)		26,000	27,400	17,900	16,400	14,925		26000 L	28000 L	18000 L	16000 L
	50K (90 CRI)		19,200	20,300	13,275	12,150	11,075		19000 L	20000 L	13000 L	12000 L
	57K (70 CRI)		26,000	27,400	17,900	16,400	14,925		26000 L	28000 L	18000 L	16000 L
Q6/X6	30K (70 CRI)	152	24,200	25,500	16,700	15,300	13,900	150	24000 L	26000 L	17000 L	15000 L
	40K (70 CRI)		25,200	26,500	17,300	15,900	14,475		26000 L	26000 L	17000 L	16000 L
	50K (90 CRI)		18,600	19,600	12,825	11,750	10,675		19000 L	20000 L	13000 L	12000 L
	57K (70 CRI)		25,200	26,500	17,300	15,900	14,475		26000 L	26000 L	17000 L	16000 L
Q5/X5	30K (70 CRI)	137	22,100	23,300	15,200	13,950	12,675	140	22000 L	23000 L	15000 L	14000 L
	40K (70 CRI)		23,000	24,200	15,800	14,500	13,200		23000 L	24000 L	16000 L	15000 L
	50K (90 CRI)		17,000	17,900	11,750	10,725	9,750		17000 L	18000 L	12000 L	11000 L
	57K (70 CRI)		23,000	24,200	15,800	14,500	13,200		23000 L	24000 L	16000 L	15000 L
Q4/X4	30K (70 CRI)	126	20,100	21,100	13,800	12,425	11,550	130	20000 L	21000 L	14000 L	13000 L
	40K (70 CRI)		20,900	22,000	14,375	13,175	12,000		21000 L	22000 L	14000 L	13000 L
	50K (90 CRI)		15,500	16,300	10,650	9,750	8,900		16000 L	16000 L	11000 L	10000 L
	57K (70 CRI)		20,900	22,000	14,375	13,175	12,000		21000 L	22000 L	14000 L	13000 L
Q3/X3	30K (70 CRI)	113	18,500	19,500	12,750	11,475	10,425	110	19000 L	20000 L	13000 L	12000 L
	40K (70 CRI)		19,300	20,300	13,275	12,150	11,075		19000 L	20000 L	13000 L	12000 L
	50K (90 CRI)		14,350	15,100	9,875	9,050	8,225		14000 L	15000 L	10000 L	9000 L
	57K (70 CRI)		19,300	20,300	13,275	12,150	11,075		19000 L	20000 L	13000 L	12000 L
Q2/X2	30K (70 CRI)	100	16,700	17,600	11,500	10,550	9,575	100	17000 L	18000 L	12000 L	11000 L
	40K (70 CRI)		17,400	18,300	11,975	10,950	10,000		17000 L	18000 L	12000 L	11000 L
	50K (90 CRI)		12,075	13,550	8,850	8,125	7,400		13000 L	14000 L	9000 L	8000 L
	57K (70 CRI)		17,400	18,300	11,975	10,950	10,000		17000 L	18000 L	12000 L	11000 L
Q1*	30K (70 CRI)	90	14,725	15,500	10,125	9,275	8,450	90	15000 L	16000 L	10000 L	9000 L
	40K (70 CRI)		15,400	16,200	10,600	9,700	8,850		15000 L	16000 L	11000 L	10000 L
	50K (90 CRI)		11,375	11,975	7,825	7,175	6,525		11000 L	12000 L	8000 L	7000 L
	57K (70 CRI)		15,400	16,200	10,600	9,700	8,850		15000 L	16000 L	11000 L	10000 L

* X1 option not available with 30L lumen package.

OSQ™ LED Area/Flood Luminaire featuring Patented NanoComfort® Technology – Version C

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings. When ordered with the N option, the luminaire will include an ANSI C136.15-2020 utility label that indicates the wattage (rounded to nearest 10W), the lumen output (+/- 24,000 lumens rounded to nearest 1000 lumens, > 24,001 lumens rounded to the nearest 2000 lumens), and the CCT of the luminaire at the selected lumen output. Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others). When ordered with the N option, the luminaire will include a utility label that indicates the wattage, lumen output, and CCT of the setting selected.

Q & X Option Power & Lumen Data – 40L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-277V	Lumen Values					Utility Label Wattage	Utility Label Lumens			
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)	Asymmetric Lumens w/ External BLS		Asymmetric / Asymmetric w/External BLS	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)
Q9 (Full Power)	30K (70 CRI)	236	34,500	38,400	25,100	23,000	21,000	240	36000 L	38000 L	26000 L	23000 L
	40K (70 CRI)		38,000	40,000	26,200	24,000	21,800		38000 L	40000 L	26000 L	24000 L
	50K (90 CRI)		28,100	29,600	19,400	17,700	16,100		28000 L	30000 L	19000 L	18000 L
	57K (70 CRI)		38,000	40,000	26,200	24,000	21,800		38000 L	40000 L	26000 L	24000 L
Q8/X8	30K (70 CRI)	221	34,800	36,600	23,900	21,900	20,000	220	34000 L	36000 L	24000 L	22000 L
	40K (70 CRI)		34,300	36,200	25,000	22,900	20,900		34000 L	38000 L	26000 L	23000 L
	50K (90 CRI)		26,800	28,200	18,600	16,900	15,400		26000 L	28000 L	18000 L	17000 L
	57K (70 CRI)		34,300	36,200	25,000	22,900	20,800		34000 L	38000 L	26000 L	23000 L
Q7/X7	30K (70 CRI)	212	32,400	35,100	23,000	21,000	19,200	210	34000 L	36000 L	23000 L	21000 L
	40K (70 CRI)		34,800	36,600	23,900	21,900	20,000		34000 L	36000 L	24000 L	22000 L
	50K (90 CRI)		25,800	27,100	17,700	16,200	14,800		26000 L	28000 L	18000 L	16000 L
	57K (70 CRI)		34,800	36,600	23,900	21,900	20,000		34000 L	36000 L	24000 L	22000 L
Q6/X6	30K (70 CRI)	203	32,200	33,900	22,200	20,300	18,500	200	32000 L	34000 L	22000 L	20000 L
	40K (70 CRI)		33,600	35,400	23,100	21,200	19,300		34000 L	36000 L	23000 L	21000 L
	50K (90 CRI)		24,900	26,200	17,100	15,700	14,300		24000 L	26000 L	17000 L	16000 L
	57K (70 CRI)		33,600	35,400	23,100	21,200	19,300		34000 L	36000 L	23000 L	21000 L
Q5/X5	30K (70 CRI)	184	29,500	31,000	20,300	18,400	16,900	180	30000 L	32000 L	20000 L	19000 L
	40K (70 CRI)		30,700	32,300	21,100	19,300	17,600		30000 L	32000 L	21000 L	19000 L
	50K (90 CRI)		22,700	23,900	15,600	14,325	13,025		23000 L	24000 L	16000 L	14000 L
	57K (70 CRI)		30,700	32,300	21,100	19,300	17,600		30000 L	32000 L	21000 L	19000 L
Q4/X4	30K (70 CRI)	167	26,800	28,200	18,600	16,900	15,400	170	26000 L	28000 L	18000 L	17000 L
	40K (70 CRI)		27,900	29,400	19,200	17,600	16,000		28000 L	30000 L	19000 L	18000 L
	50K (90 CRI)		20,600	21,700	14,200	13,000	11,825		21000 L	22000 L	14000 L	13000 L
	57K (70 CRI)		27,900	29,400	19,200	17,600	16,000		28000 L	30000 L	19000 L	18000 L
Q3/X3	30K (70 CRI)	151	24,700	26,000	17,000	15,400	14,175	150	24000 L	26000 L	17000 L	16000 L
	40K (70 CRI)		25,800	27,100	17,700	16,200	14,800		26000 L	28000 L	18000 L	16000 L
	50K (90 CRI)		19,100	20,100	13,150	12,050	10,975		19000 L	20000 L	13000 L	12000 L
	57K (70 CRI)		25,800	27,100	17,700	16,200	14,800		26000 L	28000 L	18000 L	16000 L
Q2/X2	30K (70 CRI)	135	22,200	23,400	15,300	14,025	12,750	140	22000 L	23000 L	15000 L	14000 L
	40K (70 CRI)		23,200	24,400	16,000	14,625	13,325		23000 L	24000 L	16000 L	15000 L
	50K (90 CRI)		17,200	18,100	11,825	10,850	9,875		17000 L	18000 L	12000 L	11000 L
	57K (70 CRI)		23,200	24,400	16,000	14,625	13,325		23000 L	24000 L	16000 L	15000 L
Q1/X1	30K (70 CRI)	114	19,700	20,700	13,525	12,400	11,300	120	20000 L	21000 L	14000 L	12000 L
	40K (70 CRI)		20,500	21,600	14,125	12,925	11,775		21000 L	22000 L	14000 L	13000 L
	50K (90 CRI)		15,200	16,000	10,450	9,575	8,725		15000 L	16000 L	10000 L	10000 L
	57K (70 CRI)		20,500	21,600	14,125	12,925	11,775		21000 L	22000 L	14000 L	13000 L

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Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others).

Q & X Option Power & Lumen Data – 50L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-480V	Lumen Values				
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)	Asymmetric Lumens w/External BLS
Q9 (Full Power)	30K (70 CRI)	297	45,600	48,000	31,600	28,700	26,200
	40K (70 CRI)		47,500	50,000	32,700	29,900	27,300
	50K (90 CRI)		35,200	37,000	24,200	22,200	20,200
	57K (70 CRI)		47,500	50,000	32,700	29,900	27,300
Q8/X8	30K (70 CRI)	285	43,500	45,800	29,900	27,400	25,000
	40K (70 CRI)		45,300	47,700	31,200	28,600	26,000
	50K (90 CRI)		33,600	35,300	23,100	21,100	19,300
	57K (70 CRI)		45,300	47,700	31,200	28,600	26,000
Q7/X7	30K (70 CRI)	269	41,700	43,900	28,700	26,300	23,900
	40K (70 CRI)		43,400	45,700	29,900	27,400	24,900
	50K (90 CRI)		32,100	33,800	22,100	20,200	18,400
	57K (70 CRI)		43,400	45,700	29,900	27,400	24,900
Q6/X6	30K (70 CRI)	258	40,300	42,400	27,700	25,400	23,100
	40K (70 CRI)		42,000	44,200	28,900	26,500	24,100
	50K (90 CRI)		31,100	32,700	21,400	19,600	17,900
	57K (70 CRI)		42,000	44,200	28,900	26,500	24,100
Q5/X5	30K (70 CRI)	233	36,900	38,800	25,400	23,200	21,200
	40K (70 CRI)		38,400	40,400	26,400	24,200	22,000
	50K (90 CRI)		28,400	29,900	19,600	17,900	16,300
	57K (70 CRI)		38,400	40,400	26,400	24,200	22,000
Q4/X4	30K (70 CRI)	215	33,500	35,200	23,000	21,100	19,200
	40K (70 CRI)		34,900	36,700	24,000	22,000	20,000
	50K (90 CRI)		25,900	27,200	17,800	16,300	14,875
	57K (70 CRI)		34,900	36,700	24,000	22,000	20,000
Q3/X3	30K (70 CRI)	191	30,900	32,500	21,300	19,500	17,700
	40K (70 CRI)		32,200	33,900	22,200	20,300	18,500
	50K (90 CRI)		23,900	25,100	16,400	15,000	13,725
	57K (70 CRI)		32,200	33,900	22,200	20,300	18,500
Q2/X2	30K (70 CRI)	170	27,900	29,300	19,200	17,500	16,000
	40K (70 CRI)		29,000	30,500	19,900	18,300	16,600
	50K (90 CRI)		21,500	22,600	14,775	13,525	12,350
	57K (70 CRI)		29,000	30,500	19,900	18,300	16,600
Q1/X1	30K (70 CRI)	153	24,400	25,900	16,900	15,500	14,125
	40K (70 CRI)		25,700	27,000	17,700	16,200	14,750
	50K (90 CRI)		18,900	19,900	13,000	11,925	10,850
	57K (70 CRI)		25,700	27,000	17,700	16,200	14,750

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Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others).

Q & X Option Power & Lumen Data – 65L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-480V	Lumen Values				
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)	Asymmetric Lumens w/External BLS
Q9 (Full Power)	30K (70 CRI)	394	59,300	62,400	40,800	37,400	34,000
	40K (70 CRI)		61,800	65,000	42,500	38,900	35,500
	50K (90 CRI)		45,700	48,100	31,500	28,600	26,200
	57K (70 CRI)		61,800	65,000	42,500	38,900	35,500
Q8/X8	30K (70 CRI)	365	54,600	59,500	38,900	35,600	32,500
	40K (70 CRI)		58,900	62,000	40,500	37,100	33,800
	50K (90 CRI)		43,600	45,900	30,000	27,500	25,000
	57K (70 CRI)		58,900	62,000	40,500	37,100	33,800
Q7/X7	30K (70 CRI)	347	54,200	57,000	37,300	34,100	31,100
	40K (70 CRI)		56,500	59,400	38,800	35,600	32,400
	50K (90 CRI)		41,800	44,000	28,800	26,400	24,000
	57K (70 CRI)		56,500	59,400	38,800	35,600	32,400
Q6/X6	30K (70 CRI)	322	52,500	55,200	36,100	33,100	30,100
	40K (70 CRI)		54,700	57,500	37,600	34,400	31,400
	50K (90 CRI)		40,600	42,500	27,800	25,500	23,200
	57K (70 CRI)		54,700	57,500	37,600	34,400	31,400
Q5/X5	30K (70 CRI)	301	47,900	50,400	33,000	30,200	27,500
	40K (70 CRI)		49,900	52,500	34,300	31,400	28,600
	50K (90 CRI)		37,000	38,900	25,400	23,300	21,200
	57K (70 CRI)		49,900	52,500	34,300	31,400	28,600
Q4/X4	30K (70 CRI)	274	43,500	45,800	29,900	27,400	25,000
	40K (70 CRI)		45,300	47,700	31,200	28,600	26,000
	50K (90 CRI)		33,600	35,300	23,100	21,100	19,300
	57K (70 CRI)		45,300	47,700	31,200	28,600	26,000
Q3/X3	30K (70 CRI)	247	40,200	42,300	27,700	25,300	23,100
	40K (70 CRI)		41,900	44,100	28,800	26,400	24,100
	50K (90 CRI)		31,000	32,600	21,300	19,500	17,800
	57K (70 CRI)		41,900	44,100	28,800	26,400	24,100
Q2/X2	30K (70 CRI)	220	36,200	38,100	24,900	22,800	20,800
	40K (70 CRI)		37,700	39,700	26,000	23,800	21,600
	50K (90 CRI)		27,900	29,300	19,200	17,500	16,000
	57K (70 CRI)		37,700	39,700	26,000	23,800	21,600
Q1*	30K (70 CRI)	195	31,900	33,600	22,000	20,100	18,300
	40K (70 CRI)		33,300	35,000	22,900	21,000	19,100
	50K (90 CRI)		24,600	25,900	16,900	15,500	14,125
	57K (70 CRI)		33,300	35,000	22,900	21,000	19,100

* X1 option not available with 65L lumen package.

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Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others).

Q & X Option Power & Lumen Data – 75L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-480V	Lumen Values				
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)	Asymmetric Lumens w/External BLS
Q9 (Full Power)	30K (70 CRI)	447	68,600	72,000	47,100	43,100	39,300
	40K (70 CRI)		71,300	75,000	49,000	44,900	40,900
	50K (90 CRI)		52,800	55,500	36,300	33,200	30,300
	57K (70 CRI)		71,300	75,000	49,000	44,900	40,900
Q8/X8	30K (70 CRI)	426	65,300	68,700	44,900	41,100	37,500
	40K (70 CRI)		68,100	71,600	46,800	42,900	39,100
	50K (90 CRI)		50,300	52,900	34,600	31,700	28,900
	57K (70 CRI)		68,100	71,600	46,800	42,900	39,100
Q7/X7	30K (70 CRI)	404	62,500	65,800	43,000	39,400	35,900
	40K (70 CRI)		65,200	68,600	44,900	41,100	37,400
	50K (90 CRI)		48,200	50,700	33,200	30,400	27,700
	57K (70 CRI)		65,200	68,600	44,900	41,100	37,400
Q6/X6	30K (70 CRI)	387	60,500	63,600	41,600	38,100	34,700
	40K (70 CRI)		63,000	66,300	43,400	39,700	36,200
	50K (90 CRI)		44,700	49,100	32,100	29,400	26,800
	57K (70 CRI)		63,000	66,300	43,400	39,700	36,200
Q5/X5	30K (70 CRI)	350	55,300	58,200	38,100	34,900	31,700
	40K (70 CRI)		57,600	60,600	39,600	36,300	33,100
	50K (90 CRI)		42,600	44,800	29,300	26,800	24,500
	57K (70 CRI)		57,600	60,600	39,600	36,300	33,100
Q4/X4	30K (70 CRI)	321	50,200	52,800	34,500	31,600	28,800
	40K (70 CRI)		52,400	55,100	36,000	33,000	30,100
	50K (90 CRI)		38,700	40,700	26,600	24,400	22,200
	57K (70 CRI)		52,400	55,100	36,000	33,000	30,100
Q3/X3	30K (70 CRI)	287	44,400	46,800	31,900	29,200	26,600
	40K (70 CRI)		46,400	50,900	33,300	30,500	27,800
	50K (90 CRI)		35,700	37,600	24,600	22,500	20,500
	57K (70 CRI)		46,400	50,900	33,300	30,500	27,800
Q2/X2	30K (70 CRI)	254	41,700	43,900	28,700	26,300	23,900
	40K (70 CRI)		43,500	45,800	29,900	27,400	25,000
	50K (90 CRI)		32,200	33,900	22,200	20,300	18,500
	57K (70 CRI)		43,500	45,800	29,900	27,400	25,000
Q1/X1	30K (70 CRI)	227	36,900	38,800	25,400	23,200	21,200
	40K (70 CRI)		38,400	40,400	26,400	24,200	22,000
	50K (90 CRI)		28,400	29,900	19,600	17,900	16,300
	57K (70 CRI)		38,400	40,400	26,400	24,200	22,000

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Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the OSQ area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected and will only be able to be adjusted down in the field through a dimming control (by others).

Q & X Option Power & Lumen Data – 85L Lumen Package

Q/X Option Setting	CCT/CRI	System Watts 120-480V	Lumen Values				
			Asymmetric	Symmetric	2B, 3B, AB (factory-installed BLS)	4B (factory-installed BLS)	Asymmetric Lumens w/External BLS
Q9 (Full Power)	30K (70 CRI)	520	77,400	81,400	N/A	N/A	44,500
	40K (70 CRI)		80,800	85,000	N/A	N/A	46,400
	50K (90 CRI)		59,800	62,900	N/A	N/A	34,300
	57K (70 CRI)		80,800	85,000	N/A	N/A	46,400
Q8/X8	30K (70 CRI)	494	74,000	77,800	N/A	N/A	42,500
	40K (70 CRI)		77,100	81,100	N/A	N/A	44,300
	50K (90 CRI)		57,000	60,000	N/A	N/A	32,700
	57K (70 CRI)		77,100	81,100	N/A	N/A	44,300
Q7/X7	30K (70 CRI)	469	70,900	74,600	N/A	N/A	40,700
	40K (70 CRI)		73,900	77,700	N/A	N/A	42,400
	50K (90 CRI)		54,700	57,500	N/A	N/A	31,400
	57K (70 CRI)		73,900	77,700	N/A	N/A	42,400
Q6/X6	30K (70 CRI)	450	68,500	72,100	N/A	N/A	39,200
	40K (70 CRI)		71,400	75,100	N/A	N/A	41,000
	50K (90 CRI)		52,900	55,600	N/A	N/A	30,400
	57K (70 CRI)		71,400	75,100	N/A	N/A	41,000
Q5/X5	30K (70 CRI)	407	62,600	65,900	N/A	N/A	35,900
	40K (70 CRI)		65,300	68,700	N/A	N/A	37,500
	50K (90 CRI)		48,300	50,800	N/A	N/A	27,700
	57K (70 CRI)		65,300	68,700	N/A	N/A	37,500
Q4/X4	30K (70 CRI)	373	56,900	59,900	N/A	N/A	32,700
	40K (70 CRI)		59,300	62,400	N/A	N/A	34,000
	50K (90 CRI)		43,900	46,200	N/A	N/A	25,200
	57K (70 CRI)		59,300	62,400	N/A	N/A	34,000
Q3/X3	30K (70 CRI)	334	52,600	55,200	N/A	N/A	30,200
	40K (70 CRI)		54,800	57,600	N/A	N/A	31,500
	50K (90 CRI)		40,500	42,600	N/A	N/A	23,200
	57K (70 CRI)		54,800	57,600	N/A	N/A	31,500
Q2/X2	30K (70 CRI)	298	47,300	49,800	N/A	N/A	27,200
	40K (70 CRI)		49,300	51,900	N/A	N/A	28,300
	50K (90 CRI)		36,500	38,400	N/A	N/A	21,000
	57K (70 CRI)		49,300	51,900	N/A	N/A	28,300
Q1/X1	30K (70 CRI)	243	41,900	44,000	N/A	N/A	24,000
	40K (70 CRI)		43,500	45,800	N/A	N/A	25,000
	50K (90 CRI)		32,200	33,900	N/A	N/A	18,500
	57K (70 CRI)		43,500	45,800	N/A	N/A	25,000

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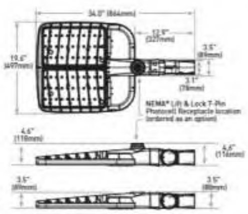
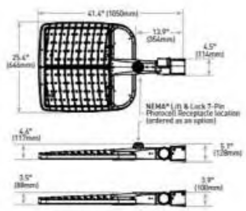
OSQL - AA Mount



Luminaire	Weight
OSQL	28.4 lbs. (12.9kg)

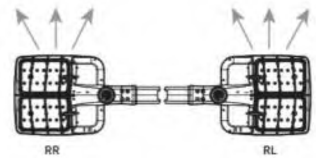
Note: For OSQM w/AA mount, refer to drawing on page 1.

OSQX - AA Mount



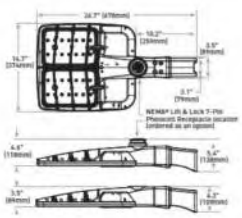
Luminaire	Weight
OSQX	48.6 lbs. (22.0kg)

RR/RL Configuration



OSQM - DA Mount

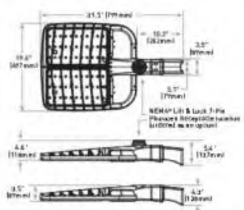
OSQM - DA Mount



Luminaire	Weight
OSQM	19.7 lbs. (8.9kg)

Note: Refer to page 14 for fixture mounting drill pattern.

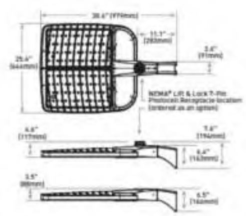
OSQL - DA Mount



Luminaire	Weight
OSQL	28.8 lbs. (13.1kg)

Note: Refer to page 14 for fixture mounting drill pattern.

OSQX-DA Mount

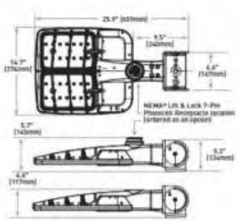


Luminaire	Weight
OSQX	45.8 lbs. (20.8kg)

Note: Refer to page 14 for fixture mounting drill pattern.

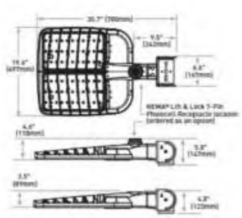
OSQM - Trunnion Mount

OSQM - Trunnion Mount



Luminaire	Weight
OSQM	23.2 lbs. (10.5kg)

OSQL - Trunnion Mount



Luminaire	Weight
OSQL	32.3 lbs. (14.7kg)

Replacement Parts
DA Mounting Hardware Kit OSQ-ML-C-DA-HRDWRBG - For use only with OSQM and OSQL luminaires - Includes (2) Bolts, (1) Foam Gasket, and (1) Backing Plate

Driver Replacement Kits

Product	Lumen Package	Voltage	Controls
OSQ-C-DVRKT	**4L** 4,000 Lumens **6L** 6,000 Lumens **9L** 9,000 Lumens **11L** 11,000 Lumens **16L** 16,000 Lumens **22L** 22,000 Lumens **30L** 30,000 Lumens **40L** 40,000 Lumens **50L** 50,000 Lumens **65L** 65,000 Lumens **75L** 75,000 Lumens **85L** 85,000 Lumens	**UL** Universal 120-277V **UH** Universal 347-480V - Not available with 4L, 40L, 75L or 85L lumen packages **UE** Universal 277-480V - Available only with 40L, 75L and 85L lumen packages	**BLANK** - For use with no controls (standard 0-10V dimming) - For use with BML, NS and NS2 controls (sensors not included) - For use with Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 controls (field adjustable output module not included) **X8/X7/X6/X5/X4/X3/X2/X1** **Locked Lumen Output** - Must select X8, X7, X6, X5, X4, X3, X2, or X1 - X1 option not available with the following lumen package/voltage offerings: 9L/UL, 16L/UL, 16L/UH, 30L/UL, 30L/UH, 45L/UL, 45L/UH - X2 option not available 9L/UL lumen package/voltage - Lumen output is permanently locked to the setting selected

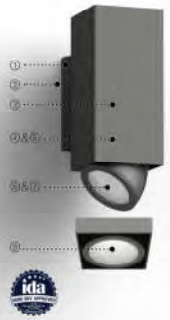
Y2, Y2A

LUMINIS

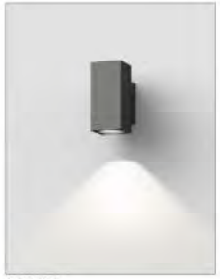
SQP600
SYRIOS PRO
WALL

PROJECT NAME: **QUANTITY:** **TYPE:**

ORDERING CODE:



① Robust cast aluminum wall mounting box.
② Sturdy galvanized steel mounting plate.
③ Seamless extruded aluminum square housing.
④ Asymmetric heatsink for perfect blend of clean aesthetic and efficient heat dissipation.
⑤ Sleek and durable sealed cast aluminum up or down light assembly.
⑥ 30º tilt and 355º rotation for light adjustability. The module is fixed in a horizontal position for optimal lighting performance and to meet IDA certification.
⑦ Faceted specular aluminum reflector offers smooth lighting and reduced glare (NR/FLD/VWD). While TIR collimator lens focuses light in a very narrow beam.
⑧ High efficiency silicone lens.



SQP600

MATERIALS

Syrios Pro is made of corrosion resistant 360 aluminum alloy with a copper (CU) content of less than 0.1%. The main housing is made of seamless 6063 extruded aluminum, with an integrally sealed LED light module designed for optimal heat dissipation, and lighting performance.

ELECTRICAL DRIVER

Driver is 0-10V dimming-ready (dims to 1%) with: 120-277 multi-volt (50-60Hz) or 347-480 high-volt (50-60Hz), operating temperature range of -30ºC/-22ºF to 45ºC/113ºF, output over voltage protection, output over current protection and output short circuit protection with auto-recovery.

LED LIGHT ENGINE

Offered in 2700K/3000K/3500K/4000K CCT with 80 CRI. 70% LED lumen maintenance at 60,000 hours (L70/B50) based on IESNA LM-80-08 LED extrapolated life, calculated per IESNA TM-21-21.
Optional true amber LED for turtle sensitive areas.
Wavelengths: 586nm to 597nm.
RGBW with white CCT available in 3000K and 4000K.
Quad chip technology, enabling optimal color mixing under each individual optic.

FINISH

Five-stage preparation process including preheating of cast aluminum parts for air extraction, and an environmentally friendly alloy sealant. Polyester powder coating is applied through an electrostatic process and oven cured for long term finish.

CERTIFICATION

UL Certified to Canadian and U.S. safety standards. Certified for use in wet locations, Rated IP65. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Actual performance may differ as a result of end-user environment and application.

WARRANTY

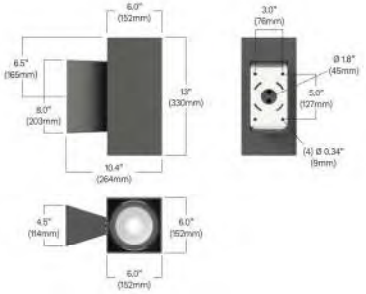
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: https://www.acuitybrands.com/support/warranty/terms-and-conditions

MOUNTING

The mounting plate is designed to fit on a 4" (102mm) octagonal electrical box using 3.5" (89mm) C/C mounting holes. Additional mounting holes are provided as per site requirements.

MEASUREMENTS

Maximum weight: 13.6 lbs (6.2 kg)



LUMINIS

SQP600
SYRIOS PRO
WALL

ORDERING CODE

*SERIES	*DOWNLIGHT OUTPUT	*DOWNLIGHT DISTRIBUTION	CCT[2]	*VOLTAGE	DOWNLIGHT LENS
SQP600	Static White L1L20 2249 lm / 21w L1L35 3732 lm / 39w L1L50 4900 lm / 58w RGBW L1RGBW[1] 349 lm / 46w True Amber L1LK2A 562 lm / 9w Delivered lumens calculated at 4000K/80CRI except for RGBW and amber. Flood optic distribution. Typical power consumption. Refer to LCF table for outputs at other CCTs.	NR Narrow optic 11° FLD Flood optic 30° VWD Very wide optic 55°	27K 2700K 30K 3000K 35K 3500K 40K 4000K	120 120V 277 277V 347 347V 480 480V HVOLT 347V-480V MVOLT 120V-277V	ESL Elliptical spread lens[11] SL Solite lens[4,5]
	Static White L1L25 2403 lm / 19w L1L45 4400 lm / 39w L1L60 6105 lm / 63w True Amber L1LK3A 662 lm / 9w Delivered lumens calculated at 4000K/80CRI except for amber. Type V distribution. Typical power consumption. Refer to LCF table for outputs at other CCTs.	LD1 Type I distribution LD2 Type II distribution LD3 Type III distribution LD5 Type V distribution			
	Very Narrow Distribution L1L06 661 lm / 15w Delivered lumens calculated at 4000K/80CRI. Very narrow optic distribution. Typical power consumption. Refer to LCF table for outputs at other CCTs.	VNR Very narrow optic 6º	Required field for all outputs except True amber.		

LOUVERS	CONDUIT COVER	MOUNTING DIRECTION	PHOTOCELL	SURGE PROTECTOR	EMERGENCY
HL Hexcell louver	SWK Decorative cover for 3/4" conduit junction box	UP Required for uplight installation	PH Photocell[6,7]	SP Surge protector	REM7 Remote emergency battery, 90 min, 7W[4]

CONTROLS	*FINISH	WOOD FINISH[10]	ENVIRONMENT	HEIGHT MATCHING
NLTAIR-MS nLight AIR 2.0 wireless control with occupancy detection[3] NLTAIR2 nLight AIR 2.0 wireless control[3]	BKT Jet black BZT Bronze CHT Champagne DGT Gun metal GRT Titanium gray MST Matte silver SGT Steel gray WHT Snow white CMC Custom matched color[9] RAL RAL color[10]	ADG American douglas BRC Birch CHN Chestnut CRY Cherry KNP Knotty pine MPL Maple OFL Oak RSW Rosewood TEK Teak WLN Walnut	MG Marine grade paint[12] NT Natatorium suitable[13]	UH Uniform height matching 18" (457mm) housing

NOTES
*- Denotes a required field
1- Available only with 30K, 40K. Not available with 347, 480 or HVOLT.
2- For IDA certification compliance, luminaire must be ordered with 3000K or warmer.
3- 37° x 80°.
4- Lumen conversion factor (LCF) 0.9.
5- Not available with nTL.
6- Not available with 480V, HVOLT.
7- Not available with NLTAIR2, NLTAIR-MS, REM7.
8- Remote mount 50ft - 12" (305mm) square enclosure with access cover. Powers downlight only. The remote enclosure must be interior (cable by others). Not available with PH, NLTAIR-MS, NLTAIR2.
9- Contact factory to coordinate custom matching color.
10- Specify RAL number.
11- Faux wood finish not applied to driver housing, lens frame or accessories. Additional delay required. Not compatible with marine grade paint or natatorium suitable.
12- Marine grade paint for harsh, coastal environment and exposure to salt water. Additional delay required.
13- Available only in WHT and BKT.

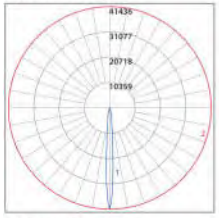
LUMINIS.COM
Toll free: (866) 586-4647 | Fax: (514) 683-8872 | Email: info@luminis.com
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

SQP600
Rev. 08/13/24

Y2, Y2A

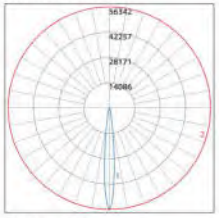
TYPICAL PHOTOMETRY SUMMARY

SQP600-L1L06-VNR



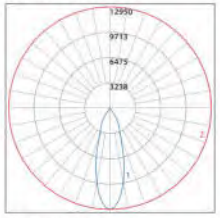
Total Lms: 661 Lumens
Total Input Watts: 15 W
Efficacy: 44.1 Lumens/Watt
BUG: B1-U0-G0
CCT/CRI: 4000K/80
Maximum Candela: 41436 @ 0°

SQP600-L1L50-NR



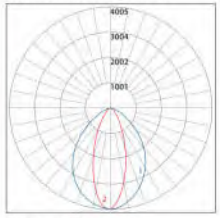
Total Lms: 4771 Lumens
Total Input Watts: 58 W
Efficacy: 82.3 Lumens/Watt
BUG: B3-U0-G0
CCT/CRI: 4000K/80
Maximum Candela: 56342 @ 0°

SQP600-L1L50-FLD



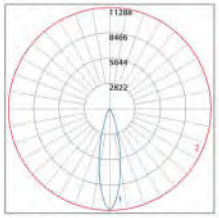
Total Lms: 4900 Lumens
Total Input Watts: 58 W
Efficacy: 84.5 Lumens/Watt
BUG: B3-U0-G0
CCT/CRI: 4000K/80
Maximum Candela: 12950 @ 0°

SQP600-L1L50-FLD-ESL



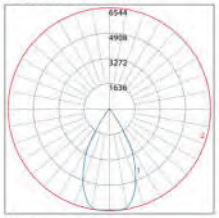
Total Lms: 4459 Lumens
Total Input Watts: 58 W
Efficacy: 76.9 Lumens/Watt
BUG: B3-U0-G1
CCT/CRI: 4000K/80
Maximum Candela: 4004 @ 0°

SQP600-L1L50-FLD-HL



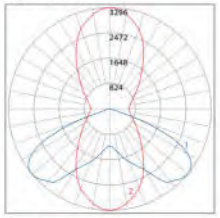
Total Lms: 2807 Lumens
Total Input Watts: 58 W
Efficacy: 48.4 Lumens/Watt
BUG: B3-U0-G0
CCT/CRI: 4000K/80
Maximum Candela: 11288 @ 0°

SQP600-L1L50-VWD



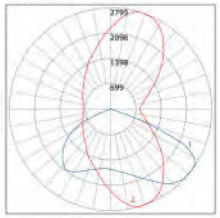
Total Lms: 5050 Lumens
Total Input Watts: 58 W
Efficacy: 87.1 Lumens/Watt
BUG: B3-U0-G0
CCT/CRI: 4000K/80
Maximum Candela: 6544 @ 0°H/75°V

SQP600-L1L60-LD1



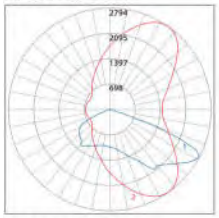
Total Lms: 6457 Lumens
Total Input Watts: 63 W
Efficacy: 102.5 Lumens/Watt
BUG: B2-U0-G1
CCT/CRI: 4000K/80
Maximum Candela: 3296 @ 90°H/50°V

SQP600-L1L60-LD2



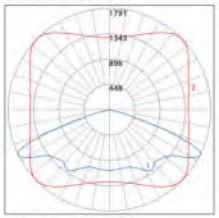
Total Lms: 6586 Lumens
Total Input Watts: 63 W
Efficacy: 104.5 Lumens/Watt
BUG: B2-U0-G1
CCT/CRI: 4000K/80
Maximum Candela: 2795 @ 72.5°H/52.5°V

SQP600-L1L60-LD3



Total Lms: 6407 Lumens
Total Input Watts: 63 W
Efficacy: 101.7 Lumens/Watt
BUG: B2-U0-G1
CCT/CRI: 4000K/80
Maximum Candela: 2794 @ 55°H/62.5°V

SQP600-L1L60-LD5



Total Lms: 6105 Lumens
Total Input Watts: 63 W
Efficacy: 96.9 Lumens/Watt
BUG: B2-U0-G1
CCT/CRI: 4000K/80
Maximum Candela: 1791 @ 135°H/62.5°V

LUMEN CONVERSION FACTOR (LCF)		
CCT	CRI	LCF
2700K	80	0.91
3000K	80	0.94
3500K	80	0.98
4000K	80	1.00

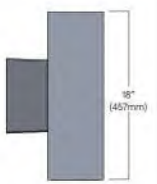
All Photometry shown use the 80CRI 4000K LEDs.

Please visit our web site www.luminis.com for complete I.E.S. file.

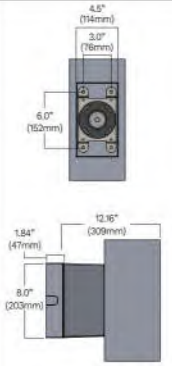
LUMINIS

SQP600
SYRIOS PRO
WALL

OPTION DETAILS



UH
Tall housing to match SQP602 or SQP606.



SWK
Adaptor box for surface 3/4" conduit feed (4 sides plus back entry).

NLTAIR-MS
nLight AIR 2.0 wireless control with occupancy detection mounted on the wall box.

NLTAIR2
nLight AIR 2.0 wireless control mounted on the wall box.

PH
Thermal button photocell mounted on wallbox. Instant turn-on. Standard 5-10 second turn-off time delay.

LUMINIS.COM
Toll free: (866) 586-4647 | Fax: (514) 683-8872 | Email: info@luminis.com
260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

SQP600
Rev. 08/13/24

Y3,Y4

OSQ Series

OSQW™ LED Wall Mount Luminaire featuring Patented NanoComfort® Technology

Rev. Date: V3 05/08/2024

Product Description

The OSQW™ LED wall mount luminaire has a slim, low profile design intended for outdoor wall mounted applications. The rugged lightweight aluminum housing and mounting box are designed for installation over standard single gang J-Boxes and mud ring single gang J-Boxes. The luminaire allows for through-wired or conduit entry from the top, bottom, sides and rear. The housing design is intended specifically for LED technology including a weathertight LED driver compartment and thermal management. Optic design features industry-leading NanoComfort Technology which provides superior glare reduction and visual comfort with high-efficiency illumination delivered precisely where it is needed.

Applications: General area and security lighting

Performance Summary

- Utilizes Patented NanoComfort® Technology
- Utilizes Cree TrueWhite® Technology on 5000K Luminaires
- Assembled in the USA by Cree Lighting from US and imported parts
- **Initial Delivered Lumens:** Up to 8,600
- **Input Power:** 16 - 55 watts
- **Efficacy:** Up to 159 LPW
- **CRI:** Minimum 70 CRI (2700K, 3000K, 4000K & 5700K); 90 CRI (5000K)
- **CCT:** 2700K, 3000K, 4000K, 5000K, 5700K
- **Limited Warranty*:** 10 years for luminaire/10 years for Colorfast DeltaGuard® finish/5 years for BML and ML sensors/up to 5 years for Synapse® accessories/1 year for accessories
- **Limited Warranty Emergency Back Up (EB) Battery:** 1 year for Battery Back Up. Test regularly in accordance with local code

* See https://www.creelighting.com/resources/warranties/ for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

Accessories

Field-Installed

Beauty Plate
WM-PLT12** - 12" (305mm) Square
WM-PLT14** - 14" (356mm) Square
- Covers holes left by incumbent wall packs

Synapse® SimplySnap 10V Interface
DIM10-220F
- 120V-277V
- Requires either Synapse Central Base Station or On-Site Controller
- Refer to DIM10-220F spec sheet for details

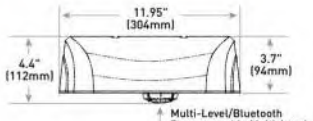
Synapse SimplySNAP Central Base Station
CBSSW-450-002
- Includes On-Site Controller (SS450-002) and 5-button switch
- Indoor and Outdoor rated
- Refer to CBSSW-450-002 spec sheet for details

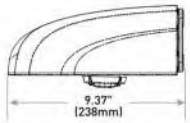
Synapse SimplySNAP On-Site Controller
SS450-002
- Verizon® LTE-enabled
- Designed for indoor applications
- Refer to SS450-002 spec sheet for details

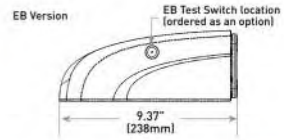
Synapse Building Management System (BMS) Gateway
BMS-GW-002
- Required for BACnet integration
- Refer to BMS-GW-002 spec sheet for details

Synapse Wireless Sensor
WSN-DPM
- Motion and light sensor
- Control multiple zones
- Refer to WSN-DPM spec sheet for details

** Must specify color







Luminaire	Weight
Standard	9.0 lbs. (4.1kg)
Emergency	10.0 lbs. (4.5kg)

Ordering Information

Example: OSQW-C-2L-27K7-2M-UL-WM-BK

OSQW	C								
Family	**Series**	**Lumen Package***	**CCT/CRI**	**Optic**	**Voltage**	**Mounting**	**Finish**	**Controls****	**Options**
OSQW	C	**2L** 2,550 lumens - Available only with UL voltage **4L** 4,020 lumens **6L** 6,075 lumens **8L** 8,600 lumens	**27K7** 2700K, 70 CRI **30K7** 3000K, 70 CRI **40K7** 4000K, 70 CRI **50K9** 5000K, 90 CRI **57K7** 5700K, 70 CRI	**2M** Type II Mid **3M** Type III Mid **4M** Type IV Mid	**UL** Universal 120-277V **UH** Universal 347-480V - Not available with 2L lumen package, controls options, or EB option **34** 347V - Available only with P control - Not available with 2L lumen package, BML or ML controls, or EB option	**WM** Wall	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**BML Bluetooth® Technology Enabled Multi-Level Sensor** - Available only with UL voltage - Utilizes a multifunction sensor - Refer to BML spec sheet for details - 8-20' sensor lens installed on luminaire; 20-40' sensor lens and aisle shrouds included - Not available with other controls or EB option **ML Multi-Level** - Refer to ML spec sheet for details - Utilizes a multifunction sensor - Available only with UL voltage - Not available with other controls or EB option **P Button Photocell** - Available with UL and 34 voltages only - Not available with other controls or EB option	**20KV 20kV/10kA Surge Suppression** - Replaces standard 10kV/5kA surge protection **EB Emergency Battery Back-Up** - Provides 90 minutes and 7W of power in emergency mode - Available only with UL voltage - Not available with BML, ML or P controls

* Lumen Package codes identify approximate light output only. Actual lumen output levels vary depending on CCT selection. Refer to Initial Delivered Lumen tables for specific lumen values.
** Luminaire comes standard with 0-10V dimming. Controls by others.

US: creelighting.com (800) 236-6800
Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

OSQW™ LED Wall Mount Luminaire featuring Patented NanoComfort® Technology

Product Specifications

CREE LIGHTING NANOCOMFORT® TECHNOLOGY

Cree Lighting's NanoComfort® Technology ends the trade-offs in outdoor lighting by providing superior glare reduction and visual comfort in high-efficiency illumination delivered precisely where it is needed. The basic building block of NanoComfort® Technology is a compact 4x4 array of LEDs. Each of the 16 LEDs in a module is in contact with its own acrylic polymer lens to capture and precisely direct light. With NanoComfort® Technology, the acrylic optics are cut and sculpted into facets that relieve the glare and harshness while improving visual comfort – all while retaining superb efficacy and control.

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile design
- Luminaire housing specifically designed for LED applications with advanced LED thermal management and driver
- Acrylic optic w/clear tempered glass lens
- Some versions are provided with full circuit board, but not fully populated with LEDs or optics to scale back lumen package
- Luminaire mounting box designed for installation over standard single gang J-Boxes and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- Includes (4) 3/16" mounting holes for customer supplied hardware. Select hardware appropriate for mounting surface
- Conduit entry from top, bottom, sides, and rear
- Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, black, white and bronze are available
- **Weight:** Standard - 9.0 lbs. (4.1kg); Emergency - 10.0 lbs. (4.5kg)
- Includes QR code on back plate which provides access to: Online installation instructions, Luminaire information (Part number, Serial number, Build date, and Warranty end date), and Warranty claim submission form
- Duplicate 1" and 2" QR code labels are included. 1" labels can be affixed inside pole bases, next to fixtures, on site plans, or in maintenance records. 2" labels can be scanned from the ground when placed at an appropriate height

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV/5kA surge suppression protection standard; 20kV/10kA surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Dims to 10%. Controls by others
- 0-10V ANSI C137.1-2019 (8-Volt)
- **Maximum 10V Source Current:** 1 mA
- Refer to Dimming spec sheet for details
- **Operating Temperature Range:** -40°C - +50°C (-40°F - +122°F); Minimum operating temperature with EB option: -20°C (-4°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Designed for downlight applications only
- UL924 (EB Option) Maximum mounting height: 20.0'(6.1m)
- Enclosure rated IP66 per IEC 60598
- ANSI C136.2 10kV/5kA (standard) and 20kV/10kA (optional) surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Lens meets IK09 requirements per IEC 60068-2
- Assembled in the USA by Cree Lighting from US and imported parts
- Consult factory when BAA or BABA is needed for a project: www.creelighting.com/BAA-BABA
- RoHS compliant. Consult factory for additional details
- DarkSky Approved when ordered with 27K7 or 30K7 CCTs. Please refer to https://darksky.org/what-we-do/darksky-approved/products-companies/#!/~/search/keyword=cree for most current information
- ⚠ **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*

Lumen Package	System Watts 120-480V**	System Watts						EB System Watts 120-277V	Total Current (A)			
		120V	208V	240V	277V	347V**	480V**		120V	208V	240V	277V
2L	16	0.13	0.08	0.07	0.06	N/A	N/A	19	0.16	0.09	0.08	0.07
4L	27	0.22	0.13	0.11	0.10	0.08	0.06	30	0.24	0.14	0.12	0.11
6L	40	0.34	0.19	0.17	0.14	0.12	0.08	43	0.36	0.21	0.18	0.16
8L	55	0.47	0.27	0.23	0.20	0.16	0.12	58	0.49	0.28	0.24	0.21

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347- 480V +/- 10%.
** 2L lumen package is only available with 120-277V.

OSQW Series Ambient Adjusted Lumen Maintenance Factors[1]

Ambient	Lumen Package	Initial LMF	25K hr Reported[2] LMF	50K hr Reported[2] LMF	75K hr Reported[2] LMF	100K hr Reported[2] LMF
5°C	2L	1.02	0.99	0.97	0.94	0.92
	4L-8L	1.02	0.99	0.93	0.88	0.83
10°C	2L	1.02	0.99	0.96	0.94	0.91
	4L-8L	1.02	0.98	0.93	0.87	0.82
15°C	2L	1.01	0.98	0.96	0.93	0.91
	4L-8L	1.01	0.98	0.92	0.87	0.82
20°C	2L	1.01	0.97	0.95	0.93	0.90
	4L-8L	1.01	0.97	0.92	0.86	0.81
25°C	2L	1.00	0.97	0.94	0.92	0.90
	4L-8L	1.00	0.97	0.91	0.86	0.81
30°C	2L	0.99	0.96	0.94	0.91	0.89
	4L-8L	0.99	0.96	0.90	0.85	0.80
35°C	2L	0.99	0.96	0.93	0.91	0.89
	4L-8L	0.99	0.95	0.90	0.85	0.80
40°C	2L	0.98	0.95	0.93	0.90	0.88
	4L-8L	0.98	0.95	0.89	0.84	0.79
45°C	2L	0.98	0.95	0.92	0.90	0.87
	4L-8L	0.98	0.94	0.89	0.84	0.79
50°C	2L	0.97	0.94	0.91	0.89	0.87
	4L-8L	0.97	0.94	0.88	0.83	0.79

[1] Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the Temperature Zone Reference Document for outdoor average nighttime ambient conditions.
[2] In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

Delivered Emergency Lumens

Lumen Package	CCT/CRI			
	2700K/3000K, 70 CRI	4000K, 70 CRI	5000K, 90 CRI	5700K, 70 CRI
2L	1,070	1,120	810	1,120
4L	1,000	1,040	760	1,040
6L	1,020	1,060	780	1,060
8L	1,110	1,160	800	1,160

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Canada: creelighting-canada.com (800) 473-1234

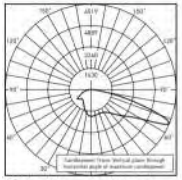
CREE LIGHTING

Y3,Y4

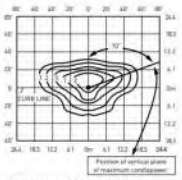
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
https://www.creelighting.com/products/outdoor/wall-mount/osq-series-2/

2M



RESTL Test Report #: PL18035-001A
OSQW-C-8L-30K7-2M-UL-WM-WH
Initial Delivered Lumens: 8,577



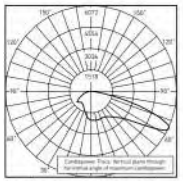
OSQW-C-4L-40K7-2M-Ux-WM-xx-xx
Mounting Height: 15' (4.6) A.F.G.
Initial Delivered Lumens: 4,020
Initial FC at grade

Type II Mid Distribution

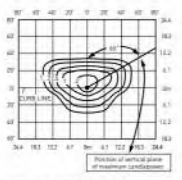
Lumen Package	2700K/3000K, 70CRI		4000K, 70CRI		5000K, 90CRI		5700K, 70CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
2L	2,450	B1 U0 G1	2,550	B1 U0 G1	1,860	B1 U0 G1	2,550	B1 U0 G1
4L	3,870	B1 U0 G1	4,020	B1 U0 G1	2,940	B1 U0 G1	4,020	B1 U0 G1
6L	5,825	B1 U0 G1	6,075	B1 U0 G1	4,430	B1 U0 G1	6,075	B1 U0 G1
8L	8,250	B2 U0 G2	8,600	B2 U0 G2	6,275	B1 U0 G1	8,600	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

3M



RESTL Test Report #: PL18036-001A
OSQW-C-8L-30K7-3M-UL-WM-WH
Initial Delivered Lumens: 8,543



OSQW-C-4L-40K7-3M-Ux-WM-xx-xx
Mounting Height: 15' (4.6) A.F.G.
Initial Delivered Lumens: 4,020
Initial FC at grade

Type III Mid Distribution

Lumen Package	2700K/3000K, 70CRI		4000K, 70CRI		5000K, 90CRI		5700K, 70CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
2L	2,450	B1 U0 G1	2,550	B1 U0 G1	1,860	B1 U0 G1	2,550	B1 U0 G1
4L	3,870	B1 U0 G1	4,020	B1 U0 G1	2,940	B1 U0 G1	4,020	B1 U0 G1
6L	5,825	B1 U0 G1	6,075	B1 U0 G1	4,430	B1 U0 G1	6,075	B1 U0 G1
8L	8,250	B2 U0 G2	8,600	B2 U0 G2	6,275	B1 U0 G1	8,600	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

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Canada: creelighting-canada.com (800) 473-1234

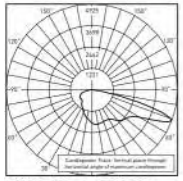
CREE LIGHTING

OSQW™ LED Wall Mount Luminaire featuring Patented NanoComfort® Technology

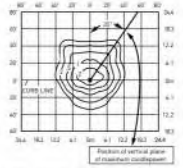
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult:
https://www.creelighting.com/products/outdoor/wall-mount/osq-series-2/

4M



RESTL Test Report #: PL18037-001A
OSQW-C-8L-30K7-4M-UL-WM-WH
Initial Delivered Lumens: 8,441



OSQW-C-4L-40K7-4M-Ux-WM-xx-xx
Mounting Height: 15' (4.6) A.F.G.
Initial Delivered Lumens: 4,020
Initial FC at grade

Type IV Mid Distribution

Lumen Package	2700K/3000K, 70CRI		4000K, 70CRI		5000K, 90CRI		5700K, 70CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20	Initial Delivered Lumens*	BUG Ratings** Per TM-15-20
2L	2,450	B1 U0 G1	2,550	B1 U0 G1	1,860	B1 U0 G1	2,550	B1 U0 G1
4L	3,870	B1 U0 G1	4,020	B1 U0 G1	2,940	B1 U0 G1	4,020	B1 U0 G1
6L	5,825	B1 U0 G1	6,075	B1 U0 G1	4,430	B1 U0 G1	6,075	B1 U0 G1
8L	8,250	B2 U0 G2	8,600	B2 U0 G2	6,275	B1 U0 G1	8,600	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens.
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

Replacement Parts

EB Replacement Kit
OSQW-C-EBKIT
- Suitable for use with all lumen packages and UL voltage

Back Box Replacement Kit
OSQW-C-JBOXKIT
- Suitable for use with all OSQW-C luminaires

Driver Replacement Parts

Product	Lumen Package	Voltage
OSQW-C-DVRKT	**2L** 2,550 Lumens - Available only with UL voltage **4L** 4,020 Lumens **6L** 6,075 Lumens **8L** 8,600 Lumens	**UL** 120-277V **UH** 347-480V - For use with UH and 34 voltages - Not available with 2L lumen package

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Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

LRW2

VIA WET

RECESSED
DIRECT
STATIC WHITE

LUMENWERX

5 YEAR WARRANTY

Project: _____

Type: _____

DESCRIPTION

Via Wet offers architectural lighting for wet locations in both exterior and interior applications. With a simple 3¾" high by 4½" wide profile of extruded aluminum, Via Wet can be installed in recessed, ceiling, wall, or pendant mounting.
Fully sealed, Via Wet is suitable for extreme weather condition, -20°C/-4°F to 40°C/104°F. A choice of output options provides up to 1000 lumens per foot section.

SENSORS: For latest information on sensors, click here.

IMPORTANT: Fixture must be installed with lens facing down.

Up to 89 lm/W performance

IC RATED

Order Guide

LUMINAIRE ID	DISTRIBUTION	PROTECTIVE OPTIC	OPTIC	LIGHT SOURCE	CRI	LUMEN PACKAGE
VIAWETR	D			SW		
VIAWETR Via Wet Recessed	**D** - Direct	**TMG** - Tempered Clear Glass **PYC** - Clear Polycarbonate	**HLO** - High-Efficiency Lambertian Optic **PMO** - Precision Micro-Prism Optic	**SW** - Static white	**80CRI** - 80 CRI **90CRI** - 90 CRI	**500LMF** - Low output 500 lm/ft **750LMF** - Medium output 750 lm/ft **1000LMF** - High output 1000 lm/ft

COLOR TEMP.	LUMINAIRE LENGTH	VOLTAGE	DRIVER [2]	ELECTRICAL
27K - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**#FT** - Specify nominal length (#) in 1 foot increments **Standard nominal lengths:** 2FT Single units: 3' and 4' Continuous runs: lengths over 4'	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [1] - 347V [1] Only available with DI driver.	**DI** - 1% 0-10V **DA** [3] - DALI **LTD10** [4] - Low-temperature 10% 0-10V [2] PoE (Power-over-Ethernet) compatible. Consult factory for details. [3] On-site commissioning is required. [4] Suitable for temperatures down to -40°C/F.	**1C** - 1 circuit **#MC** [5] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [6, 7, 8] - Generator transfer device fixture [5] Specify total number of circuits (#), including any circuits required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit. [6] Minimum 4' fixture. [7] Not available with 347V. [8] Not available for environments where the ambient temperature falls below 0°C (32°F).

ELECTRICAL SECTIONS (optional) [9, 10]	POWER FEED	MOUNTING	FINISH	OPTION
#EC## [11] - Emergency-powered section **#NL##** [9] - Night light section **#DL##** [9] - Daylight section **#GTD##** [9, 12, 13, 14] - Generator transfer device section **NA** - None [9] Specify with multi circuit (#MC) electrical option only. [10] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [11] Specify quantity (#), and section length in inches (##). [12] Minimum 4' section. [13] Not available with 347V. [14] Not available for environments where the ambient temperature falls below 0°C (32°F).	**TF** - Top feed **EF** - End feed	**MTR** - Trim **MTL** - Trimless	**W** - Matte white **CF#** - Custom finish, specify RAL#	**NATA** - Natatorium finish **NA** - None

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931-4862
www.lumenwerx.com

VIAWET-RECESSED-SPEC-REV1 February 15, 2023

VIA WET

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STATIC WHITE

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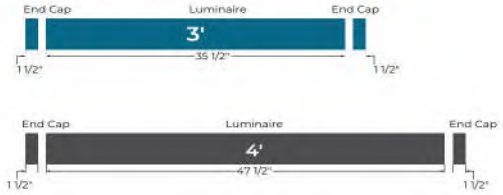
Row Configurations and Mounting Spacing

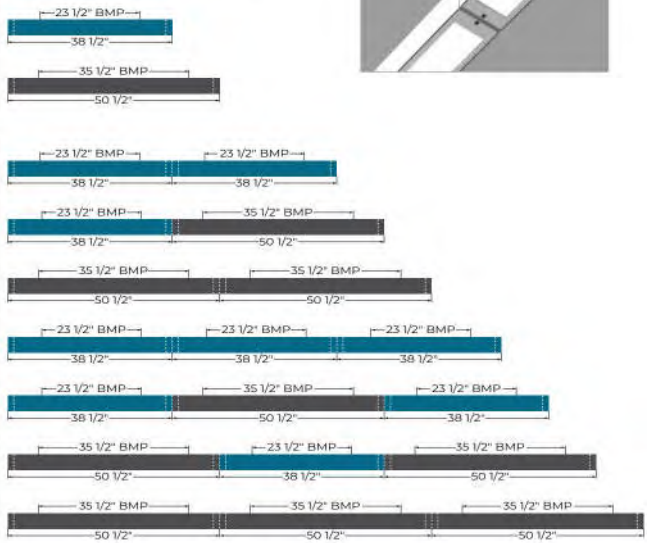
LUMINAIRE LENGTHS AND ENDCAPS



ROW CONFIGURATIONS AND MOUNTING SPACING

SECTIONS		TOTAL LENGTH	
3ft	4ft	Nominal	Actual
1X		3'	38 1/2"
	1X	4'	50 1/2"
2X		6'	77 1/16"
1X	1X	7'	88 1/16"
	2X	8'	101 1/16"
3X		9'	115 5/8"
2X	1X	10'	127 5/8"
1X	2X	11'	139 5/8"
	3X	12'	151 5/8"

BMP = Distance Between Mounting Points



For longer run please use the same logic

3D LUMINAIRE JOINING SECTION

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VIAWET-RECESSED-SPEC-REV1 February 15, 2023

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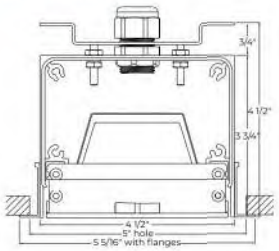
SECTION VIEW



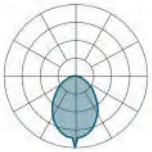
VIAWETR

OPTIC AND PROTECTIVE OPTIC

TMG + HLO - Tempered Clear Glass with High-Efficiency Lambertian Optic

Photometrics

Values calculated based on a 4 ft fixture at 35K and 80 CRI, and apply to all optics and protective optics.



LM/FT	W/FT	LPW
500	5.6	89
750	8.6	87
1000	11.7	85

MULTIPLIER TABLE

Use the table to get results for different color temperatures and CRI for all photometric tables.

Multiplier - CCT/CRI

CCT (K)	WATTS		LPW	
	CRI 80	CRI 90	CRI 80	CRI 90
2700	1.05	1.27	0.95	0.79
3000	1.02	1.23	0.98	0.81
3500	1.00	1.19	1.00	0.84
4000	1.00	1.19	1.00	0.84
5000	0.96	1.12	1.04	0.89

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Intertek

VIAWET-RECESSED-SPEC-REV1 February 15, 2023

VIA WET

RECESSED
DIRECT
STATIC WHITE

LUMENWERX

Technical Specifications

OPTICS AND PROTECTIVE OPTICS

Via Wet is available with a clear tempered glass **(TMG)** or a clear, UV stabilized polycarbonate **(PYC)** protective enclosure, which are installed outside of the luminaire optic itself.
The Precision Micro-Prism Optic **(PMO)** option utilizes a special catadioptric lens with a two-dimensional array of prisms designed to eliminate glare while maintaining high efficiency and clean luminous appearance. The High-Efficiency Lambertian Optic **(HLO)** option uses a diffuser that combines 88% transmission with good source obscuration.

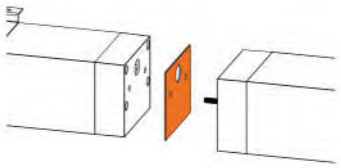
LIGHT SOURCE

Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K and 5000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate at reduced drive current to optimize efficacy and lumen maintenance.
All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

LUMINAIRE LENGTH

Via Wet is made up of standard 3, and 4 foot sections that can be joined cleanly and securely for continuous runs in all configurations.

Joining system



All individual sections are joined together onsite using the ¼"-20 screws and nuts provided. The joint between 2 adjacent individual sections is sealed by a silicone gasket attached to one of the 2 sections. The electrical connection between sections is made through the holes provided in the end-caps.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at -20°C min. and 40°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. DALI protocol drivers are also available. Power grommet for cable diameter between 0.276" and 0.512" (7-13mm). All of our standard 0-10V drivers are NEMA 410 compliant. An optional low-temperature 10% 0-10V driver, suitable for temperatures down to -40°C/F is also available.

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire, or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections

Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD48

Generator Transfer Device (GTD)

A UL924 listed shunt relay that can bypass both line voltage (120-277V) and 0-10V dimming signal. Suited for ambient temperatures of 0°C (32°F) to 60°C (140°F).

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www.lumenwerx.com

Intertek

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VIAWET-RECESSED-SPEC-REV1 February 15, 2023

LRW2

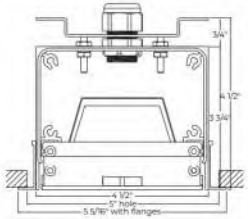
VIA WET

RECESSED
DIRECT
STATIC WHITE

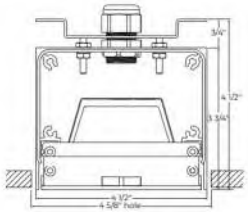
LUMENWERX

MOUNTING OPTIONS

Mountings are available with trim or trimless.

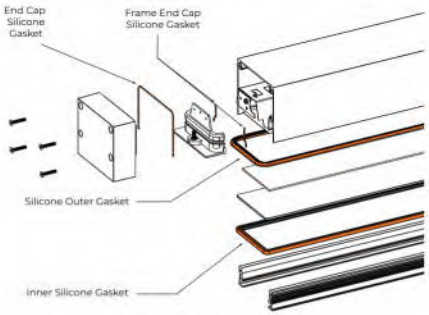


MTR - Trim



MTL - Trimless

GASKETED FIXTURE OVERVIEW



Lens and enclosure are sealed with inner and outer silicone gaskets

FINISH

Interior - 95%, reflective matte powder coated white paint
Exterior - Matte white powder coating.
Custom finishes are also available.

CONSTRUCTION

Housing - Extruded aluminum (0.095" nominal) up to 90% recycled content
Side frame extrusions – Extruded aluminum (0.125" nominal) up to 90% recycled content
Interior brackets - Die formed cold rolled sheet steel 16 gauge thick
Joining system - 2 x ¼"-20 screws + nuts accessible from inside the fixture + one silicone gasket attached to one of the end-caps
Reflectors - Flat rolled aluminum sheet 0.040" thick precisely die formed, 95% reflective matte white painted
End cap - Aluminum die cast
Tempered Clear Glass - Clear, 1/8" thickness, fully tempered optics
Clear Polycarbonate - Clear, 1/8" thickness, UV protected optics
Gaskets - Fixture lens unit and end-caps are fully sealed using silicone gaskets

WEIGHT

4ft - 18.2 lbs - 8.27 Kg

CERTIFICATIONS

ETL - Rated for Wet location. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
IC rated - Suitable for direct contact with insulation.

WARRANTY

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

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www.lumenwerx.com

VIAWET-RECESSED-SPEC-REV1 February 15, 2023

POLE

SSS Series

Crown-Weld® Straight Square Steel Poles

Rev. Date: V11 06/24/2024

Product Description

Cree Lighting's proprietary Crown-Weld® pole base crown weld configuration was designed to minimize stress in areas most vulnerable to failure, provide superior strength and higher wind load ratings, than poles of similar height and cross-section. Both premium pole design and extended life finish combine for a 7-year limited warranty for a reduced lifetime cost of ownership.

Non-tapered square steel poles are supplied with a painted galvanized steel 2-piece base cover, four partially galvanized anchor bolts, Masonite mounting template and pole cap (except open top mount). Steel pole base has slotted holes to accommodate installation. A standard 3" x 5" hand hole is located 14" above the bottom of pole base on 4-6" poles. 3" poles have a 2-5/8" x 4-1/2" hand hole located 14" above the bottom of the base plate. A 1/2" stainless-steel weld stud with grounding lug is located inside the pole, opposite the hand hole.

Cree Lighting poles are steel shot cleaned to remove any rust, mill scale, oxides, or other unwanted particles from the pole resulting in a surface preparation that exceeds the specifications published by the SSPC-SP10. Iron phosphate is then applied, creating an iron oxide base with a flat or amorphous metal phosphate topcoat. This coating significantly adds to the performance of the finished coating by improving bonding and minimizing the spread of oxidation if the coating is scratched, improving corrosion resistance. Polyester powder coating is applied to a 6-mil thickness.

CONSTRUCTION & MATERIALS

- Square, non tapered pole of structural steel tubing (ASTM A 500 Grade B) with a minimum yield strength of 50,000 p.s.i. (4-6" poles) or 46,000 p.s.i. (3" poles) welded to a formed carbon steel base plate (ASTM A-36 HRS) with a minimum yield strength of 36,000 p.s.i.
- Anchor bolts (F1554 Grade 55) are "L" bent bars having a minimum yield strength of 55,000 p.s.i. The bolts are at least partially galvanized per ASTM A153 specifications and furnished complete with two (2) hex nuts and 2 flat washers
- Base cover is 2 pc. 16 ga. painted galvannealed steel which connects with two 410 stainless steel screws included
- Pole cap is painted PVC
- Optional GFI receptacle available. Refer to page 3 for details

REGULATORY & VOLUNTARY QUALIFICATIONS

- National Electrical Code Requirements
- UL Listed in US for electrical ground bonding
- CSA Certified in Canada for ground bonding and structural strength
- RoHS Compliant (consult factory for details)
- Meets requirements of BAA and/or BABA when ordered with US option. Consult factory when needed for a project: www.creelighting.com/BAA-BABA

LIMITED WARRANTY[1]

- 7 years for pole and tenons/7 years for finish /1 year for GFI receptacle

[1] See https://www.creelighting.com/resources/warranties/ for warranty terms

Crown-Weld Base (shown on 3" square pole)

Note: Poles must be unwrapped upon delivery.

Ordering Information

Fully assembled pole is composed of two components that must be ordered separately.
Example: **Anchor Bolts w/Template:** SSS-4-AB-3/4-28 + **Pole:** SSS-4-7-25-CW-BS-10-C-BZ

Anchor Bolts /Templates (Pole must be ordered separately)	
SSS-	
SSS-3-AB-3/4-18	**Anchor Bolts & Template for 3" Poles:** 0.75" anchor bolts, 10" bolt circle (9.25-11" range)
SSS-4-AB-3/4-18	**Anchor Bolts & Template for 4", 10-12' Poles:** 0.75" anchor bolts, 10" bolt circle (9.25-11" range)
SSS-4-AB-3/4-28	**Anchor Bolts & Template for 4", 15'+ Poles:** 0.75" anchor bolts, 10" bolt circle (9.25-11" range)
SSS-5-AB-1-36	**Anchor Bolts & Template for 5" Poles:** 1" anchor bolts, 10" bolt circle (9.75-11.31" range)
SSS-6-AB-1-36	**Anchor Bolts & Template for 6" Poles:** 1" anchor bolts, 11.5" bolt circle (11.25-12.75" range)

Pole (Anchor bolts must be ordered separately)

SSS | | | | | | | CW | BS | | | | |

Design	Cross Section	Material	Shaft Size	Wall Thickness (GA)	Mounting Height		Base Type	Base Casting/ Cover	Mounting Configuration	Fixture Mounting Drill Pattern**	Finish	Options
S Straight	S Square	S Steel	3 = 3"	**3" Poles** 11	**3" Poles** 10 = 10' 15 = 15'	**5" Poles** 15 = 15' 20 = 20'	CW Crown Weld	BS Standard Metal	**Drilled Poles** 1D Drilled for Direct Mount (Single)	**Use w/Drilled Poles** C **Standard Cree Lighting Drill Pattern** - For use with Cree Lighting and C-LITE™area/flood luminaires except OSQX	BK Black	GFI **GFI Receptacle** - Available only with 4"-6" poles - Located 28" above the base of the pole on same side as hand hole. Consult factory for placement in other locations
			4 = 4"	5" 11 gauge (0.125")	**4" Poles** 10 = 10' 12 = 12' 15 = 15' 17 = 17' 20 = 20' 22 = 22' 25 = 25' 27 = 27' 30 = 30'	**4" Poles** 25 = 25' 30 = 30'			2D90 Drilled for Direct Mount (2@90deg) 2D180 Drilled for Direct Mount (2@180deg) 3D90 Drilled for Direct Mount (3@90deg) 4D90 Drilled for Direct Mount (4@90deg)	G **OSQX Drill Pattern** - Drill Pattern for use only with OSQX luminaires	BZ Bronze SV Silver WH White	US **BAA/BABA Compliant** - Must be specified prior to order
			5 = 5"	11 11 gauge (0.125")					**Open Top Poles** OT* Open top to accept internal mount tenons or brackets	**Use w/Open Top Poles** N **None** - Required with OT mounting configuration		
			6 = 6"	**4" Poles** 11 11 gauge (0.125") 7 7 gauge (0.188") - Available only in 20', 22', 25' and 30' mounting heights **5" Poles** 7 7 gauge (0.188") **6" Poles** 7 7 gauge (0.188")								

* Order tenon separately. Refer to Bracket and Tenons spec sheet for additional information. ** Refer to page 3 for fixture mounting patterns.

CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov

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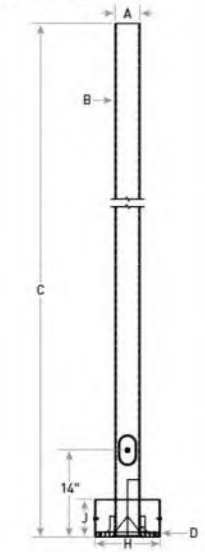
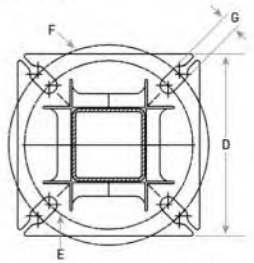
CREE LIGHTING

Pole Drawing



Refer to page 4 for dimensions A-J. Dimensions are based on pole selection.

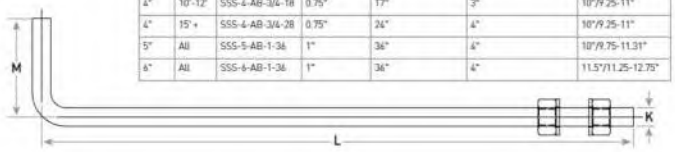
Base Plate Detail



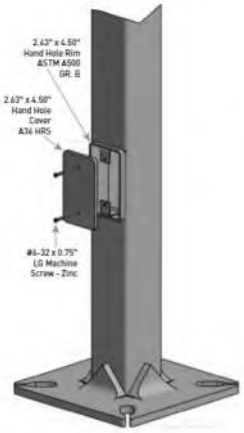
Refer to page 4 for dimensions A-J. Dimensions are based on pole selection.

Anchor Bolt Detail

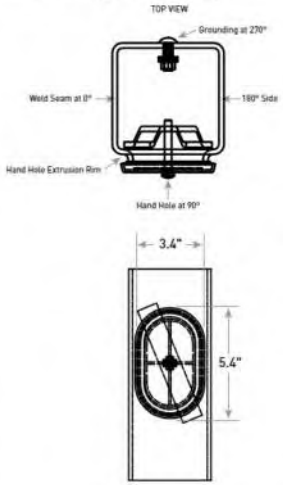
Pole Width	Pole Height	Part Number	Anchor Bolt Diameter (K)	Anchor Bolt Vertical Length (L)	Anchor Bolt Horizontal Length (M)	Bolt Circle/ Range
3"	All	SSS-3-AB-3/4-18	0.75"	17"	3"	10"/9.25-11"
4"	10'-12'	SSS-4-AB-3/4-18	0.75"	17"	3"	10"/9.25-11"
4"	15'+	SSS-4-AB-3/4-28	0.75"	24"	4"	10"/9.25-11"
5"	All	SSS-5-AB-1-36	1"	36"	4"	10"/9.75-11.31"
6"	All	SSS-6-AB-1-36	1"	36"	4"	11.5"/11.25-12.75"

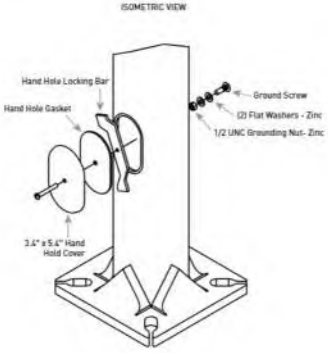


Hand Hole Drawings (3" Poles Only)



Hand Hole Drawings (4-6" Poles Only)





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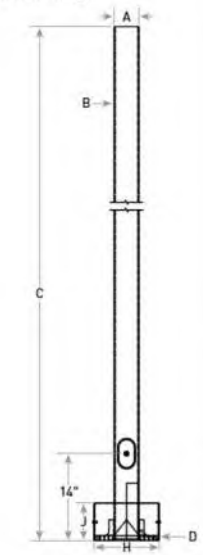
CREE LIGHTING

POLE

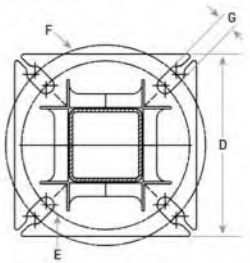
e Steel Poles

Pole Drawing



Refer to page 4 for dimensions A–J.
Dimensions are based on pole selection.

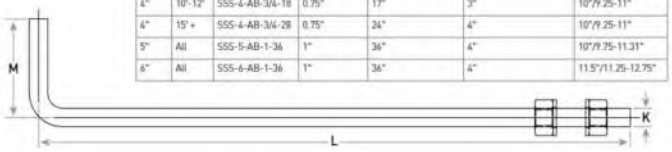
Base Plate Detail



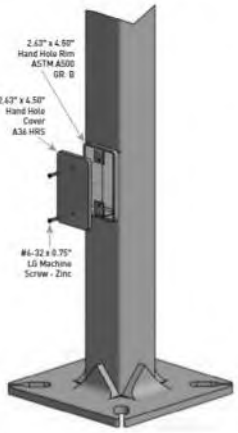
Refer to page 4 for dimensions A–J. Dimensions are based on pole selection.

Anchor Bolt Detail

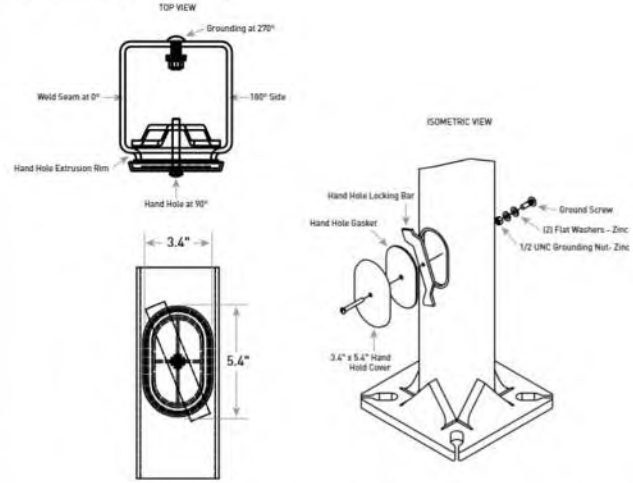
Pole Width	Pole Height	Part Number	Anchor Bolt Diameter (K)	Anchor Bolt Vertical Length (L)	Anchor Bolt Horizontal Length (M)	Bolt Circle/ Range
3"	All	SSS-3-AB-3/4-18	0.75"	17"	3"	10"/9.25-11"
4"	10'-12'	SSS-4-AB-3/4-18	0.75"	17"	3"	10"/9.25-11"
4"	15' +	SSS-4-AB-3/4-28	0.75"	24"	4"	10"/9.25-11"
5"	All	SSS-5-AB-1-36	1"	36"	4"	10"/9.75-11.31"
6"	All	SSS-6-AB-1-36	1"	36"	4"	11.5"/11.25-12.75"



Hand Hole Drawings (3" Poles Only)



Hand Hole Drawings (4-6" Poles Only)



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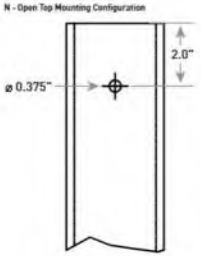
CREE LIGHTING

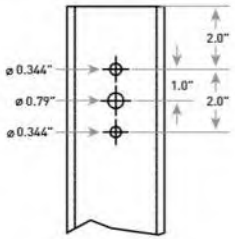
Crown-Weld® Straight Square Steel Poles

Fixture Mounting Drill Patterns

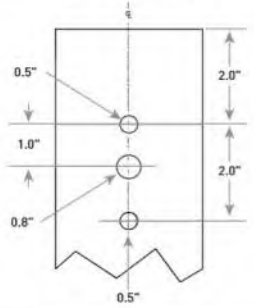
N - Open Top Mounting Configuration



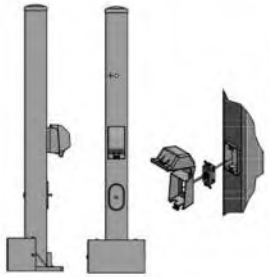
C - Standard Cree Lighting Fixture Mounting Drill Pattern



Q - OSQX Mounting Drill Pattern



Optional GFI (shown on 4-6" pole)



CONSTRUCTION & MATERIALS

- Heavy-duty steel construction
- Lockable security cover
- Includes adapter plates and foam gasket
- 20A, 120V, 60Hz GFCI, and cover also included
- 3-1/4" internal depth
- Standard GFI is located 28" above the pole base on the same side as the hand hole. Consult factory for placement in other locations
- Weatherproof while in use
- Meets NEC Extra Duty requirements
- Receptacle and cover ship separately in hardware bag

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A* (180)	2.22
PB-4A* (90)	1.11
PD Series Tenons	0.09
PW-1A3**	0.47
PW-2A3**	0.94
XA-TMDA8	0.07

Tenons and Brackets[1] (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3-6" (76-152mm) square aluminum or steel poles
- For use with adjustable arm & horizontal/vertical tenon mounts
- Not for use with THE EDGE® Area Round Post Top mounts

PB-1A* – Single
PB-2A* –180° Twin
PB-3A* –180° Triple
PB-4A*(90) – 90° Quad
PB-4A*(180) –180° Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles
- For use with adjustable arm mounts and RUL luminaires
- Not for use with OSQX Area/Flood luminaires

PD-2A4(90) – 90° Twin
PD-2A4(180) –180° Twin
PD-3A4(90) –90° Triple
PD-4A4(90) –90° Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles
- For use with horizontal tenon mounts that require extended tenon length
- Not for use with OSQX Area/Flood luminaires

PD-1H4 – Single
PD-2H4(90) –90° Twin
PD-2H4(180) –180° Twin
PD-3H4(90) – 90° Triple
PD-4H4(90) –90° Quad

Mid-Pole Bracket (Steel)
- Mounts to square pole
- For use with adjustable arm & horizontal/vertical tenon mounts

PW-1A3** – Single
PW-2A3** – Double

Direct Arm Pole Adaptor Bracket (Aluminum)
- Mounts to 3-6" (76-152mm) round or square aluminum or steel poles
- For use with horizontal tenon mounts that require extended tenon length
- Not for use with OSQX Area/Flood luminaires

XA-TMDA8

[1] Refer to the Bracket and Tenons spec sheet for more details on tenons. Refer to product specification sheets for compatible tenons.
* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"),or 6 (6").

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CREE LIGHTING

POLE

Crown-Weld® Straight Square Steel Poles

This map indicates approximate maximum wind zones throughout the U.S. Base wind velocities are established using a 50-year recurring mean. The EPA rating of the pole must be equal to or greater than that of the luminaire(s), taking into consideration the wind conditions at the job site. It is the customer's responsibility to carefully select poles and associated accessories based upon proper mounting configurations and wind loading in area where the installation will occur.

Canada Wind Speeds

Prov./ Terr.	Max mph
AB	80
BC	85
MB	80
NB	80
NL	100
NS	85
NT	80
NU	100
ON	70
PE	85
QC	85
SK	85
YT	80

Legend

- Special Wind Region
- Population Center

Location	V mph	(m/s)
Hawaii	105	(47)
Puerto Rico	125	(56)
Guam	170	(76)
Virgin Islands	125	(56)
American Samoa	125	(56)

Max. Wind Speed
miles/hour (meters/second)

Field-Installed Accessories

Vibration Dampeners
SSS-ACC-VIB-DMPNR-10-15FT (for 10'-15' poles)
SSS-ACC-VIB-DMPNR-16-20FT (for 16'-20' poles)
SSS-ACC-VIB-DMPNR-21-25FT (for 21'-25' poles)
SSS-ACC-VIB-DMPNR-26-30FT (for 26-30' poles)
- Chain encased in plastic tubing used to minimize the effects caused by wind-induced Aeolian vibration

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