CONDITIONAL USE PERMIT APPLICATION

Part I. General Information

Applicant information:

Person's Name(s): Steven Kieckhafer

Firm Name (if any): Plunkett Raysich Architects, LLC

Relationship (check one): ☐ Owner ☐ Tenant ☐ Prospective Owner/Tenant X Representing: Architect

Mailing Address: 2310 Crossroads Drive City: Madison State: WI Zip: 53718

Telephone: 608 478-4012 Fax: None e-mail: skieckhafer@prarch.com

Property owner information:

Person's Name(s): Jeff Wright

Ownership (check one): ☐ Individual ☐ Trust ☐ Partnership ☐ Corporation/LLC X Other: School District

Mailing Address: 440 13th Street City: Prairie Du Sac State: WI Zip: 53578

Telephone: 608 643-5990 Fax: 608 643-6216 e-mail: jeff.wright@saukprairieschools.org

Parcel number or legal description of subject property:

Tax Parcel 172-0780

Address or street boundaries of subject property:

Sauk Prairie High School, 105 Nineth Street. Improvement is bounded by 13th Street on the west and Grand Avenue on the north.

Current and proposed use of subject property (check all applicable uses, and whether each is a current use, proposed use, or both):

☐	multiple family residential—3+ unit building(s)	(☐ current use	☐ proposed use)
☐	mixed commercial/residential building(s)	(☐ current use	☐ proposed use)
☐	office/research	(☐ current use	☐ proposed use)
☐	retail/commercial services	(☐ current use	☐ proposed use)
☐	manufacturing/warehousing/contractor	(☐ current use	☐ proposed use)
☐	institutional use	(☐ current use	☐ proposed use)
X	parking	(X current use	X proposed use)
☐	significant earth filling, excavating, grading	(☐ current use	☐ proposed use)
X	other use: Educational	(X current use	X proposed use)

Summary of proposed project (attach pages as necessary):

See Conditional Use Application Narrative attached

Part II. Application Submittal Requirements

Along with this application, please submit a non-refundable conditional use permit application fee of $275. Also, please submit one digital copy in an easily reproducible format (e.g., PDF) of all materials that are required to make a complete application. The Village Administrator may also require hard copies after you provide a digital copy. Except as the Village Administrator may otherwise allow, each complete application must include the following information:

- ☐ A map of the subject property showing all lands for which the conditional use permit is proposed, and all other lands within 300 feet of the boundaries of the subject property, together with the names and addresses of the owners of all lands on said map as the same appear on the current records of the Register of Deeds (unless waived by the Village Administrator). All lot dimensions of the subject property, a graphic scale, and a north arrow shall be provided.

  See attached map

- ☐ A written description of the proposed conditional use describing the type, duration, and density of activities, buildings, and structures proposed for the subject property and their general locations, along the reasons why the applicant believes the proposed conditional use is appropriate.

  See Conditional Use Application Narrative attached

- ☐ A site plan of the subject property if proposed for development, conforming to all applicable requirements of Section 10-1-1307(c). If the conditional use will make use of existing site improvements, a site plan need only be of sufficient detail to confirm the portion of the site used by the conditional use.

  See attached site plan

- ☐ If the proposed conditional use is a "Large Retail and Commercial Service Development" as defined in Section 10-1-0302(p), all additional information required under Section 10-1-0605.

  Not Applicable

- ☐ Any of following additional information requested by the Zoning Administrator or Plan Commission:

  - ☐ Operational details that may affect municipal services such as average and peak utility usage, and average and peak traffic generation.

    See attached civil narrative

  - ☐ Operational details pertaining to potential nuisances such as hours of operation, outdoor storage, vibration, noise, air pollution, odor, glare, heat, fire and explosion, toxic and noxious materials, and hazardous materials as they relate to the performance standards of Article 8 of the zoning ordinance.

    Not Applicable

  - ☐ Details relating to exterior building, fence materials, lighting, or other improvements.

    See attached drawings

- ☐ Possible future building and/or parking lot expansions.

  Not Applicable

- ☐ Certified Survey Map of the property in cases where lot lines and public easements are unclear or require adjustment.

  See attached survey map

- ☐ Any other information pertinent to adequate understanding of the intended use and its relationship to nearby properties and the Comprehensive Plan.

  Not Applicable

Parcel Address or ID #: Tax parcel 172-0780

Part III. Comparison of Proposed Conditional Use Permit with Required Review Criteria (to be completed below or on an attached sheet)

1. Is the proposed conditional use (the use in general, independent of its location) in harmony with the purposes, goals, objectives, policies and standards of the Sauk Prairie Comprehensive Plan; the Village zoning ordinance; and any other plan or ordinance adopted or under consideration? Explain how, or why not. (Consult with Village Administrator as necessary on applicable plans.)

   See Conditional Use Application Narrative attached

2. Will the proposed conditional use in this location, result in a substantial or undue adverse impact on nearby property, the character of the neighborhood, the natural environment, traffic, parking, public improvements, public property or rights-of-way, or other matters affecting the public health, safety, or general welfare, either as they now exist or as they may in the future be developed? Explain how, or why not.

   See Conditional Use Application Narrative attached

3. Will the proposed conditional use maintain the desired consistency of land uses, land use intensities, and land use impacts as related to the environs of the subject property? How?

   See Conditional Use Application Narrative attached

4. Is the proposed conditional use located in an area that will be adequately served by, and will not impose an undue burden on, any of the improvements, facilities, utilities or services provided by public agencies serving the subject property? Explain how this has been evaluated.

   See Conditional Use Application Narrative attached

5. What are the public benefits of this proposal? Do the potential public benefits of the proposed conditional use outweigh potential adverse impacts of the proposed conditional use?

   See Conditional Use Application Narrative attached

Part IV. Reimbursement for Development Review Services

The Village Planner, Village Engineer, Public Works Director, Village Attorney, and other Village staff and consultants may expend time in the administration, investigation, and processing of development review applications. In addition, the Village may retain the services of other professional consultants—including but not limited to landscape architects, architects, environmental specialists, and recreation specialists—in the investigation and processing of such applications.

Reinforcing the requirements of Section 10-1-1318(d) of the Village zoning ordinance, the signing and submittal of this application or petition for development review shall be construed as an agreement to pay for professional consulting services associated with the administration, investigation, and processing of this application or petition. The Village Administrator shall retain sole discretion in determining when and to what extent it is necessary to involve one or more professional consultants in the review of each application or petition.

The Applicant shall be responsible for the costs for such professional consulting services. The Applicant shall pay such costs upon receipt of one or more invoices from the Village, following the execution of the development review services associated with the application. In the event the Applicant fails to pay such costs, the responsibility shall pass to the property owner, if different, under the same terms. Development review fees that are assigned to the Applicant or property owner, but that are not actually paid, may then be imposed by the Village as a special charge on the affected property.

Part V. Signatures

By signing and dating below, I/We:

1. Reviewed and understand the Village of Prairie du Sac zoning ordinance and its standards of approval related to this application;
2. Read, understand, and accept my/our responsibilities under the reimbursement section above;
3. Submitted an application that is true, correct, and complete to the best of my/our knowledge;
4. Acknowledge that Village officials and/or employees may, in the performance of their functions, enter upon the subject property to inspect or gather information necessary to process this application;
5. Understand that all meeting dates are tentative and may be postponed by the Village for the reason of incomplete submittals or other administrative reasons;
6. If this application is approved, agree to abide by this application, approved plans, and required conditions associated with plan approval in the development of the subject property; and
7. Understand that the Village's zoning ordinance and/or the conditions of development approval may specify timeframes within which I/we must take certain actions related to the development of the subject property, or risk having the approval being nullified.

Signature of Applicant — Date: 6.30.20

Signature of Property Owner (if different) — Date: 6/29/2020

Parcel Address or ID #: Tax parcel 172-0780

Part VI. Record of Administrative Procedures (*to be completed by Village*)

- ☐ Verification that subject property within (check one): X Village ☐ Town (Extraterritorial Jurisdiction)
- ☐ Pre-application conference with Village Administrator or designee (optional)

  Date of conference: 5/5/2020 Participants: _____

- ☐ Pre-application conference with Village Plan Commission or Joint ET Committee (optional)

  Date of Conference: _____

- ☐ Application and required plans filed with Village

  Date filed: 7/6/2020

  Name of Village staff person who accepted application: A. Wildman

- ☐ Application fee of $275 received by Village (non-refundable)

  Date received: 7/6/2020

  Name of Village staff person who accepted fee: J. Evert

- ☐ Application and submitted plans verified as being complete

  Date verified: 7/7/2020

  Name of Village staff person who verified application as complete: M. Rotters

- ☐ Notice of public hearing sent to owners within 300 feet, clerks within 1,000 feet, & newspaper

  Date sent to nearby land owners and clerks: _____

  Date of first publishing in community newspaper: 7/23/2020

  Date of second publishing in community newspaper: 7/30/2020

- ☐ Village Plan Commission or Joint ET Committee public hearing

  Meeting date: 8/3/2020 (to be held within 45 days of complete application)

- ☐ Village Plan Commission or Joint ET Committee action taken

  Meeting date: _____ (within 60 days after public hearing, or per extension)

  Action (circle one): Approval as presented Approval with conditions Denial

- ☐ Applicant notified of Village Plan Commission or Joint ET Committee action

  Date: _____

  Name of Village staff person who notified Applicant: _____

- ☐ Village Administrator records conditional use permit with Register of Deeds

PLUNKETT RAYSICH ARCHITECTS, LLP

CONDITIONAL USE PERMIT APPLICATION NARRATIVE ATTACHMENT

PROJECT: **Sauk Prairie High School; Additions and Renovations**
105 9TH Street
Prairie Du Sac, WI 53578

PRA PROJECT NUMBER: **190112-03**

SUBJECT: **Conditional Use Permit Application Narrative Attachment**

Part I. General Information; Summary of proposed project:

The project consists of a north and south building addition as well as major renovations within the existing school building. The north addition will be the home of a new 8 lane competition swimming pool with a separate community pool area that will be open to the public during regularly scheduled times. The north addition will also include new PE and Team locker rooms and the new main school entry and administrative offices to the entire High School complex. The south addition will be a "Black Box" theater and supporting spaces. This will be a companion performance space located adjacent to the River Arts Theater built in 1999. Finishes to the existing building exterior will be updated to blend with the design and color features of both additions such as standing seam metal roofing and aluminum door and window framing. Inside renovations include major upgrades to the library, cafeteria/kitchen and Tech Ed spaces. The existing Pool will be converted to a fitness Center and wrestling area. The existing school office area will be converted into a Student Center. Many classroom upgrades and toilet room facilities will also be included in the renovations project. Finally, both the additions as well as the existing building will be equipped throughout with an automatic sprinkler system including 4 fire department connections equally located around the facility exterior and a new school wide voice addressable fire alarm system.

Part II. Application Submittal Requirements; Bullet Point 2

"Provide a *written description of the proposed conditional use describing the type, duration, and density of activities, buildings, and structures proposed for the subject property and their general locations, along the reasons why the applicant believes the proposed conditional use is appropriate."*

The additions will function in the same manner as the current facility. The daytime classroom curriculum within the footprint of the current school will continue during normal school day hours with after school activities taking place as they have in the past. The addition of the two aquatic facilities on the north will allow separate use of pool operations between the school activities and the open swim by the surrounding community. At present, both functions take place in the existing school pool. Change in density of use is not intended to change. The new theater addition to the south also does not foresee the change in densities and/or duration of use but rather allows for the flexibility of theatrical performance types. The addition of the Black Box Theater gives greater variety opportunities for student growth in the area of "performing arts".

209 south water street milwaukee, wisconsin 53204 414 359 3060
2310 crossroads drive suite 2000 madison, wisconsin 53718 608 240 9900
205 north orange avenue suite 202 sarasota, florida 34236 941 444 8845
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Partners: Kevin M. Broich, Michael P. Brush, Martin P. Choren, Gregg R. Golden, Mark C. Herr, John J. Holz, Nicholas D. Kent, Steven A. Kieckhafer, Scott A. Kramer, Jason W. Puestow, David J. Raysich, Michael H. Scherbel, Larry A. Schneider, Michael J. Sobczak

Part III. Comparison of Proposed Conditional Use Permit with Required Review Criteria

1. *Is the proposed conditional use (the use in general, independent of its location) in harmony with the purposes, goals, objectives, policies and standards of the Sauk Prairie Comprehensive Plan; the Village zoning ordinance; and any other plan or ordinance adopted or under consideration? Explain how, or why not. (Consult with Village Administrator as necessary on applicable plans.*

   The design of the additions for Sauk Prairie High School comply with the architectural standards in Article 6 of the zoning ordinance by way of taking cues from the existing building and enhancing it. We are utilizing similar materials and matching the brick of the existing building, while introducing new materials to boost the building's presence and significance of important elements. Some of these new materials include: metal panel, tinted glass, and wood; all of which will be incorporated into certain parts of the existing building to tie the old and new together more seamlessly. Careful consideration is taken to match existing building heights, while increasing building heights in certain areas as a way to increase the significance of the main entry and new aquatic facility, as that is one of the main goals in the design of the new addition.

2. *"Will the proposed conditional use in this location, result in a substantial or undue adverse impact on nearby property, the character of the neighborhood, the natural environment, traffic, parking, public improvements, public property or rights-of-way, or other matters affecting the public health, safety, or general welfare, either as they now exist or as they may in the future be developed? Explain how, or why not."*

   The impact of the facility changes should have no adverse impact on it's surrounding community but rather enhance it. As noted previously, the purpose of the north and south additions are to enhance the current learning environment and to provide fresh new aquatic facilities to be used by the same groups that currently use them but separating the areas of school use from the areas of community use. The surrounding neighborhood will benefit by the upgrades being provided in this new state-of-the-art facility.

3. *"Will the proposed conditional use maintain the desired consistency of land uses, land use intensities, and land use impacts as related to the environs of the subject property? How?"*

   The proposed land use will be consistent with the current land use without change. Building and parking additions will support the current educational use. New work to be developed in existing impervious surfaces; Minimal green space areas will be affected.

4. *"Is the proposed conditional use located in an area that will be adequately served by, and will not impose an undue burden on, any of the improvements, facilities, utilities or services provided by public agencies serving the subject property? Explain how this has been evaluated."*

   As stated earlier, the purpose of the project is not to increase overall use or occupancy but rather to enhance the learning experience by current student population and surrounding

community by bringing the existing school up to the current day learning experience with state-of-the-art facilities.

5. *"What are the public benefits of this proposal? Do the potential public benefits of the proposed conditional use outweigh potential adverse impacts of the proposed conditional use?"*

   The improved educational impact on the development of the children coming out of the Sauk Prairie School District and their greater ability to succeed in their lives as adults. In addition, the community as a whole benefits from the use of a new, state of the art aquatics center and the cultural benefits of the new performing arts center addition.

Respectfully submitted,

Kevin Sullivan
Project Manager

Sauk Prairie School District

High School Additions & Renovations

105 9th St, Prairie Du Sac, WI 53578

PLUNKETT RAYSICH
ARCHITECTS, LLP

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SHEET INDEX

GENERAL

000 TITLE SHEET

CIVIL

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C200 SITE DEMOLITION PLAN
C300 SITE LAYOUT PLAN
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C302 SITE LAYOUT PLAN - EAST
C400 SITE GRADING & EROSION CONTROL PLAN
C401 SITE GRADING & EROSION CONTROL PLAN - WEST
C402 SITE GRADING & EROSION CONTROL PLAN - EAST
C500 SITE STORM SEWER PLAN - WEST
C501 SITE STORM SEWER PLAN - EAST
C502 SITE UTILITY PLAN
C800 OVERALL LANDSCAPE PLAN
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C802 NORTH BUILDING ADDITION LANDSCAPE PLAN
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ARCHITECTURAL

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A400A EXTERIOR ELEVATIONS & RENDERINGS
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A400D EXTERIOR PERSPECTIVES

ELECTRICAL

E1.0 SITE LIGHTING PHOTOMETRIC

PROJECT INFORMATION

PROJECT DATE:	07-06-20
PRA PROJECT NUMBER:	190112-03
DRAWING SET:	PLAN COMMISSION

APPLICABLE CODES AND ZONING

2018 WISCONSIN COMMERCIAL BUILDING CODE (SPS 361-366)
2015 INTERNATIONAL EXISTING BUILDING CODE
2015 INTERNATIONAL BUILDING CODE
EDUCATIONAL OCCUPANCY, GROUP E
ASSEMBLY OCCUPANCY, GROUP A-4 (POOL)
NFPA 101 - LIFE SAFETY CODE (2000) - CHAPTER 18

ZONING: CITY OF SAUK PRAIRIE ORDINANCES

CONSTRUCTION CLASSIFICATION

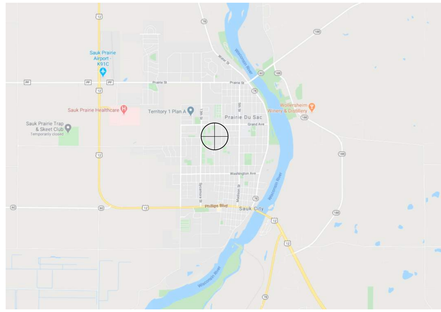
NEW CONSTRUCTION
TYPE OF CONSTRUCTION, UNPROTECTED, TYPE IIB - SPRINKLERED

ALTERATION
TYPE OF CONSTRUCTION, UNPROTECTED, TYPE IIB - SPRINKLERED

BUILDING AREA

OVERALL FOOTPRINT	**294,414 SF**
EXISTING	
FIRST FLOOR	235,356 SF
EXISTING TOTAL	**235,356 SF**
NORTH ADDITION	
FIRST FLOOR	59,049 SF
POOL MEZZANINE	6,690 SF
ADDITION TOTAL	**65,739 SF**
BUILDING TOTAL	**301,095 SF**
ALTERATIONS - FIRST FLOOR	
ADDITION	0 SF
LEVEL 1	44,570 SF
LEVEL 2	85,587 SF
ALTERATION TOTAL	**130,157 SF**
BUILDING FLOOR AREA RATIO	
OVERALL FLOOR AREA	301,095 SF
OVERALL SITE AREA	1,568,199 SF
RATIO	**1:5.2 / 19%**

PROJECT LOCATION



PROJECT TEAM

CONSTRUCTION MANAGER
Kraemer Brothers, LLC
(UNDER SEPARATE CONTRACT)
TEL(608) 546-2411
FAX(608) 546-2509

CIVIL
Rettler Corporation
(UNDER SEPARATE CONTRACT)
TEL(715) 341-2633

LANDSCAPE
Rettler Corporation
(UNDER SEPARATE CONTRACT)
TEL(715) 341-2633

FOOD SERVICE

STRUCTURAL
Pierce Engineers, Inc.
TEL(608) 256-7304

FIRE PROTECTION
MSA Professional Services, Inc.
TEL(608) 242-7779

PLUMBING
MSA Professional Services, Inc.
TEL(608) 242-7779

MECHANICAL
Fredericksen Engineering, Inc.
TEL(608) 242-7779

ELECTRICAL
MSA Professional Services, Inc.
TEL(608) 242-7779

AUDIO VISUAL

POOL
Ramaker & Associates, Inc.
TEL(608) 643-4100

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PRA PROJECT # 190112-03

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SAUK PRAIRIE SCHOOL DISTRICT

SAUK PRAIRE HIGH SCHOOL

SITE REDEVELOPMENT PROJECT - PHASE 1A

OWNER:

SAUK PRAIRIE SCHOOL DISTRICT

DISTRICT SUPERINTENDENT: JEFF WRIGHT
440 13TH STREET
PRAIRIE DU SAC, WI 53578
PHONE: (608) 448-5990

CONSULTANT:

ARCHITECT:

PLUNKETT RAYSICH ARCHITECTS, LLP

2310 CROSSROADS DRIVE, SUITE 2000
MADISON, WI 53718
PHONE: (608) 240-9900

SUB CONSULTANT:

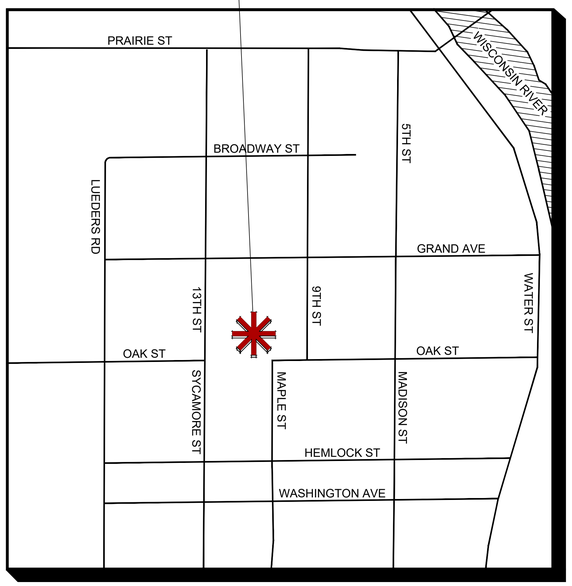
LANDSCAPE ARCHITECT / ENGINEER (LA/E):

RETTLER CORPORATION

3317 BUSINESS PARK DRIVE
STEVENS POINT, WI 54482
PHONE: (715) 341-2633
FAX: (715) 341-0431

PROJECT LOCATION

SAUK PRAIRIE HIGH SCHOOL
105 9TH ST
PRAIRIE DU SAC, WI 53578



RETTLER PROJECT #20.006
LOCATION MAP - NOT TO SCALE

N

SHEET INDEX

SHEET NUMBER	SHEET NAME
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CIVIL	
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C803	SOUTH BUILDING ADDITION LANDSCAPE PLAN
C804	LANDSCAPE DETAILS

REV	DATE	ISSUED FOR
	07/06/20	VILLAGE REVIEW

DRAWN:	DVE
CHECKED:	BG
DOCUMENT NO.	20.006

RETTLER corporation
3317 Business Park Drive, Stevens Point, WI 54482
Telephone: 715 - 341 - 2633, Fax: 715 - 341 - 0431
email: info @ rettler.com, website: www.rettler.com

SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1A

TITLE SHEET

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

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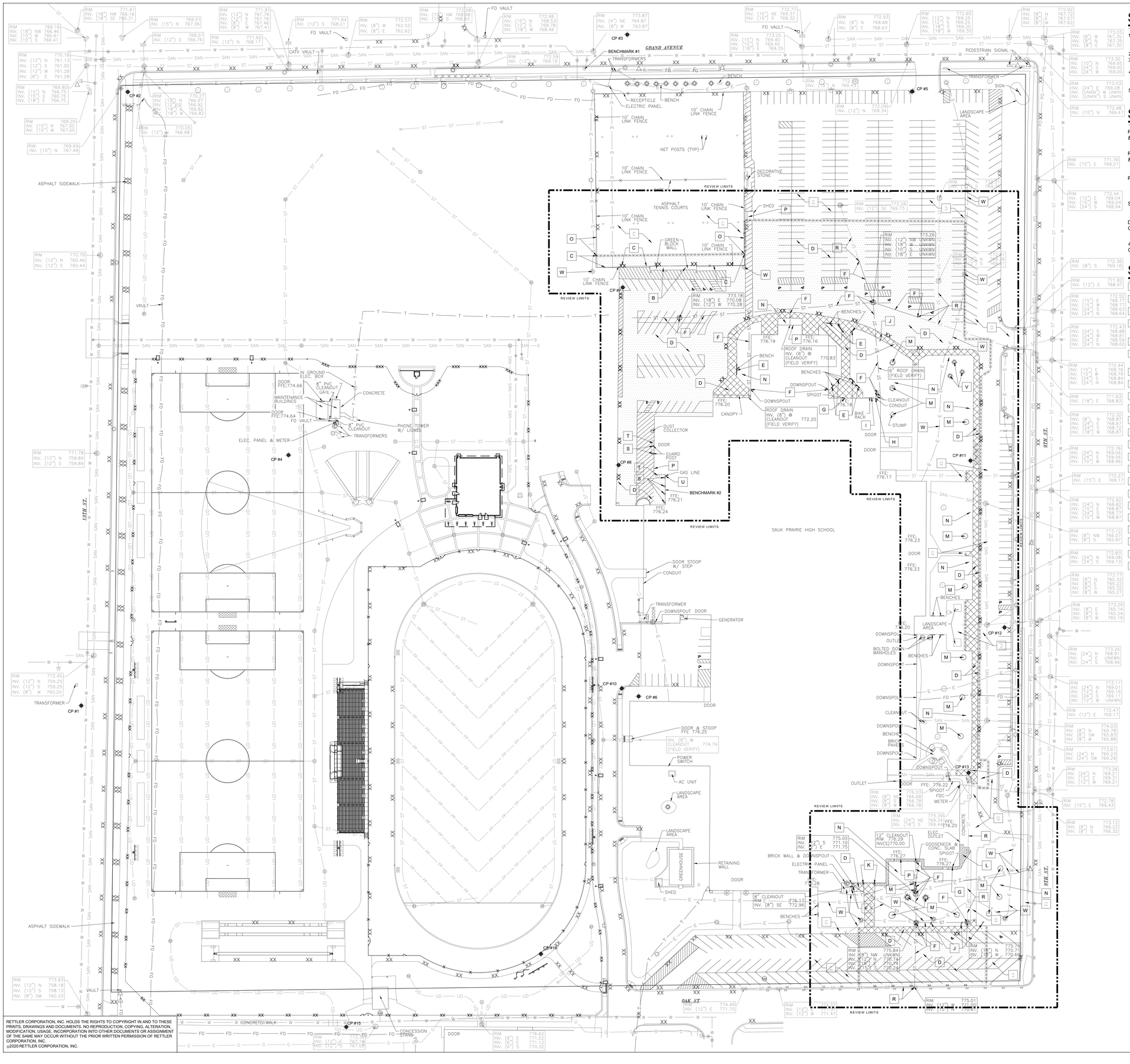

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SITE DEMOLITION - GENERAL NOTES

1. ALL MOVEABLE SCHOOL DISTRICT E□UIPMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED BY OWNER BEFORE START OF CONSTRUCTION, UNLESS STATED OTHERWISE IN THE SITE DEMOLITION KEYNOTES.
2. VERIFY ALL REMOVAL AND SALVAGE ITEMS WITH THE OWNER.
3. ALL ITEMS TO BE SALVAGED SHALL BE DELIVERED TO THE OWNER. COORDINATE DELIVERY WITH OWNER.
4. REFER TO ELECTRICAL PLANS FOR SITE PLAN DEMOLITION. RESTORATION OF HARD SURFACE AND GENERAL LANDSCAPE AREAS DISTURBED BY SITE ELECTRICAL DEMOLITION AND INSTALLATION TO BE COMPLETED BY GENERAL PRIME CONTRACTOR.
5. PROVIDE 4□H CONSTRUCTION FENCING FOR THE ENTIRE PERIMETER OF THE SITE ALONG WITH 6□H X 20□W CHAIN LINK FENCE GATES AT ACCESS POINTS.

SITE DEMOLITION - LEGEND

REMOVE EXISTING CONCRETE & BASE AGGREGATE DENSE

REMOVE EXISTING ASPHALT PAVEMENT & BASE AGGREGATE DENSE

REMOVE EXISTING LANDSCAPE GRAVEL

SAWCUT EXISTING PAVEMENT

DEMOLITION LIMITS OF CONSTRUCTION

4□H TEMPORARY CONSTRUCTION FENCING

SITE DEMOLITION - KEYNOTES

A	SITE CONSTRUCTION ACCESS w/ 6□H x 20□W ACCESS GATE
B	REMOVE EXISTING CMU BLOCK BOUNDING BOARD AND FOUNDATION
C	REMOVE EXISTING CHAIN LINK FENCING & GATES
D	REMOVE EXISTING HARD SURFACE (ASPHALT, CONCRETE & CURB & GUTTER)
E	REMOVE EXISTING BENCH & FOOTINGS
F	REMOVE EXISTING STORM SEWER PIPE, STRUCTURES, CLEANOUTS, DOWNSPOUTS & GOOSENECK (SEE PLUMBING PLANS)
G	REMOVE EXISTING SPIGOT (SEE PLUMBING PLANS)
H	REMOVE EXISTING EXTERIOR CONDUIT (SEE ELECTRICAL PLANS)
I	REMOVE EXISTING BIKE RACK (BY OWNER)
J	REMOVE EXISTING SIGN
K	REMOVE EXISTING BOLLARD & FOOTING
L	REMOVE LANDSCAPE STONE
M	CLEAR & GRUB EXISTING VEGETATION
N	STRIP & STOCKPILE TOPSOIL
O	MAINTAIN & PROTECT EXISTING CHAIN LINK FENCING & GATES
P	MAINTAIN & PROTECT EXISTING BUILDING
□	MAINTAIN & PROTECT EXISTING HARD SURFACE
R	MAINTAIN & PROTECT EXISTING STORM SEWER UTILITY
S	MAINTAIN & PROTECT EXISTING BOLLARD
T	MAINTAIN & PROTECT EXISTING DOOR STOOP
U	MAINTAIN & PROTECT EXISTING NATURAL GAS UTILITY (COORDINATE W/ UTILITY)
V	MAINTAIN & PROTECT EXISTING VEGETATION
W	SEE ELECTRICAL PLANS

REV	DATE	ISSUED FOR
	07/06/20	VILLAGE REVIEW

DRAWN:	DVE
CHECKED:	BG
DOCUMENT NO.	20.006

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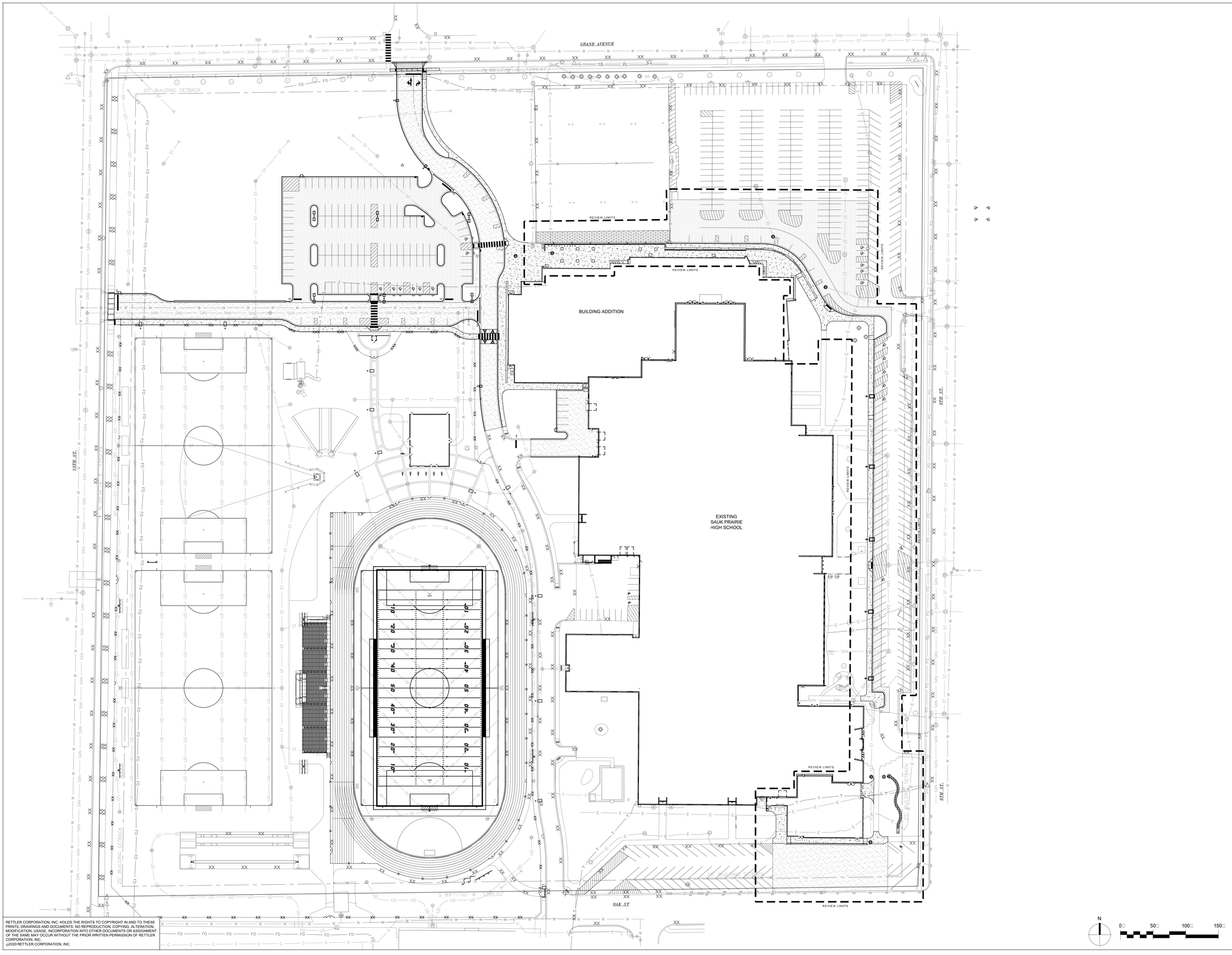
Telephone: 715 - 341 - 2833, Fax: 715 - 341 - 0431
▪ email: info @ rettler.com, website: www.rettler.com

SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1A

SITE DEMOLITION PLAN

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

C200



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SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1A

SITE LAYOUT PLAN

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

C300

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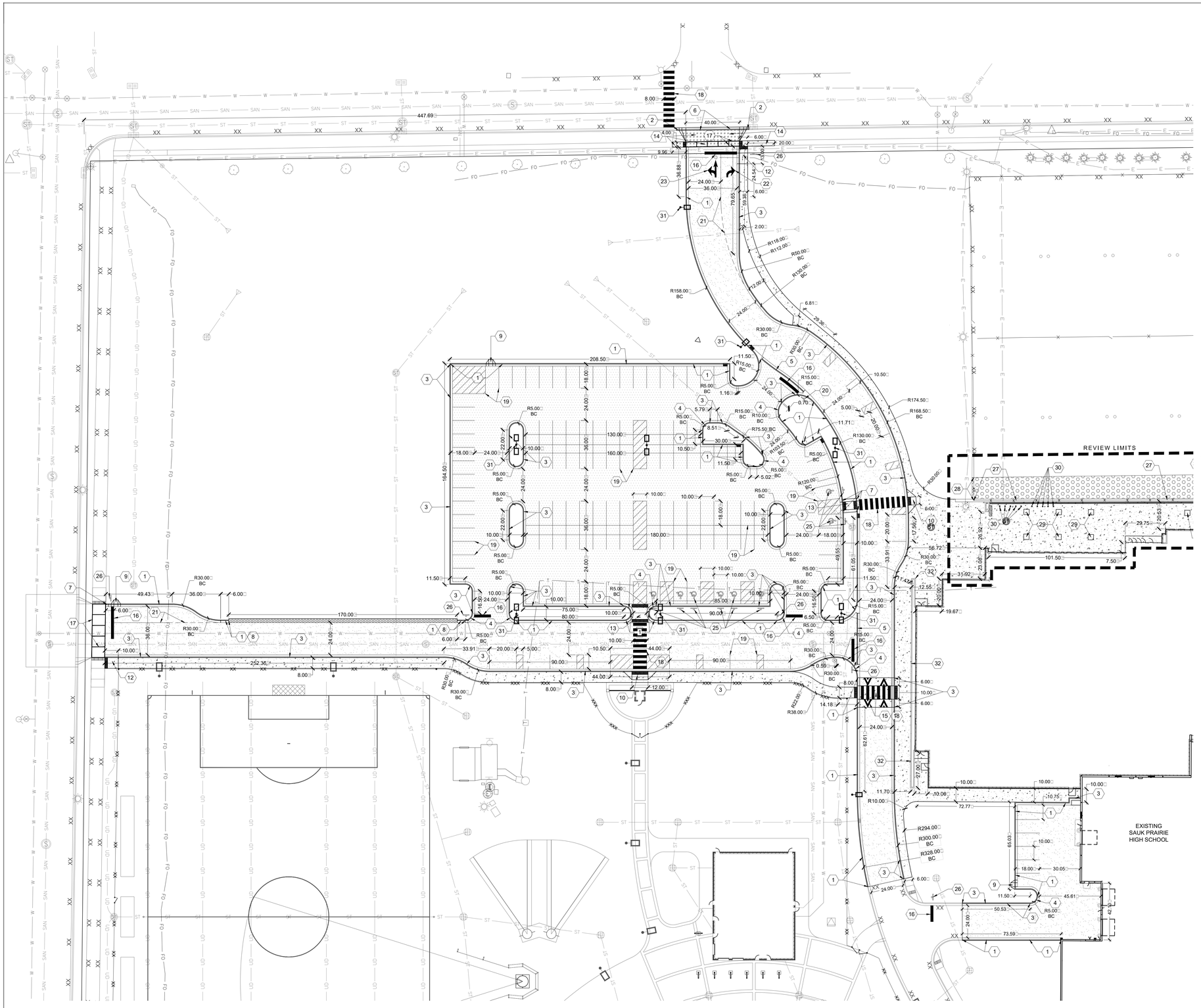

SITE LAYOUT - GENERAL NOTES

1. ALL PROPOSED DIMENSIONS ARE REFERENCED PARALLEL OR PERPENDICULAR TO THE PROPOSED FEATURES SHOWN.
2. ALL PAVED SURFACES SHALL MEET ADA RE□UIREMENTS, CONTRACTOR TO REMOVE AND REPLACE ANY NON CONFORMING PAVEMENT.
3. ALL WORK PERFORMED WITHIN THE RIGHT OF WAY SHALL CONFORM TO THE VILLAGE OF PRAIRIE DU SAC MUNICIPAL CODE AND RE□UIRES A RIGHT OF WAY PERMIT.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND RESTORING THE RIGHT OF WAY TO ITS ORIGINAL CONDITION. NOTE THE CURB AND GUTTER FLOW LINE AT THE CONSTRUCTION ACCESS LOCATION MUST REMAIN FREE OF ANY OBSTRUCTIONS AT ALL TIMES.

SITE LAYOUT - LEGEND

HOT MIX ASPHALT
- 3" HOT MIX ASPHALT
- 10" BASE AGGREGATE DENSE, 1 ¼ INCH

HOT MIX ASPHALT
- 4" HOT MIX ASPHALT
- 4" BASE AGGREGATE DENSE, 1 ¼ INCH
- 6" BASE AGGREGATE DENSE, 3 INCH

HOT MIX ASPHALT W/ TENNIS COURT SURFACING
- 3" HOT MIX ASPHALT
- 12" BASE AGGREGATE DENSE, 1 ¼ INCH

6" CONCRETE PAVEMENT
6" BASE AGGREGATE DENSE, 1 ¼ INCH

5" CONCRETE PAVEMENT
6" BASE AGGREGATE DENSE, ¾ INCH

3:WIDE GRAVEL SHOULDER
- 4" SALVAGED ASPHALTIC BASE, ¾"
- 10" BASE AGGREGATE DENSE, 1 ¼"

8H BLACK VINYL CHAIN LINK FENCING
W/ GALVANI□ED STEEL BASE PLATE

10H BLACK VINYL CHAIN LINK FENCING

DETECTABLE WARNING FIELD(S) (WISDOT SSD 08D05-□)

LIMITS OF CONSTRUCTION

SITE LAYOUT - KEYNOTES

1. ACCEPTING 24" CURB & GUTTER
2. ACCEPTING 24" CURB & GUTTER IN ROW (PER VILLAGE RE□UIREMENTS)
3. REJECTING 24" CURB & GUTTER
4. TRANSITION BETWEEN ACCEPTING AND REJECTING GUTTER
5. 24" FLOW LINE CURB & GUTTER
6. 24" FLOW LINE CURB & GUTTER IN ROW (PER VILLAGE RE□UIREMENTS)
7. 2:CURB TERMINUS
8. 6:CURB TERMINUS
9. 3:WIDE CURB CUT W/ CONCRETE FLUME
10. ADA CURB RAMP TYPE 3 W/ PAVED FLARES (WISDOT SSD 08D05-b)
11. ADA CURB RAMP TYPE 7A (WISDOT SSD 08D05-e)
12. ADA SIDEWALK RAMP
13. NON-ELEVATED PEDESTRIAN CROSSING
14. TYPE □ DRIVEWAY & ADA SIDEWALK RAMPS (WISDOT SSD 8d19)
15. 10:WIDE RAISED CROSSWALK & STRIPING - WHITE
16. 24" THICK STOP LINE - WHITE
17. SIDEWALK CROSSWALK STRIPING - WHITE
18. CROSSWALK STRIPING - WHITE
19. 90 DEGREE & PARALLEL PARKING LOT STALL PAVEMENT STRIPING - WHITE
20. 60 DEGREE PARKING LOT STALL PAVEMENT STRIPING - WHITE
21. 4" WHITE STRIPING & DOTTED EXTENSION
22. PAVEMENT MARKING ARROW - TYPE 2 (WISDOT SDD 15C7-c)
23. PAVEMENT MARKING ARROW - TYPE 3 (WISDOT SDD 15C7-c)
24. ADA PARKING SIGN AND PAVEMENT MARKING
25. VAN ACCESSIBLE ADA PARKING SIGN AND PAVEMENT MARKING
26. STOP SIGN, R1-1
27. 8H BLACK VINYL CHAIN LINK FENCING W/ GALVANI□ED STEEL BASE PLATE
28. 10H BLACK VINYL CHAIN LINK FENCING
29. 4:x 4:TREE GRATE
30. STEEL, REMOVABLE BIKE PARKING BOLLARD W/ FOOTING
31. LIGHT POLE (SEE ELEC. PLANS)
32. PLANTER WALL (SEE ARCH. & STRUC. PLANS)
33. CAST IN PLACE CONCRETE RETAINING WALL (SEE ARCH. & STRUC. PLANS)
34. PLANTER & SEAT RETAINING WALL (SEE ARCH. & STRUC. PLANS)
35. CAST IN PLACE CONCRETE STAIRS W/ HANDRAILS (5" RISERS & 12" TREADS)

STOP
R1-1
30"X30"

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SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1A

SITE LAYOUT PLAN - WEST

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

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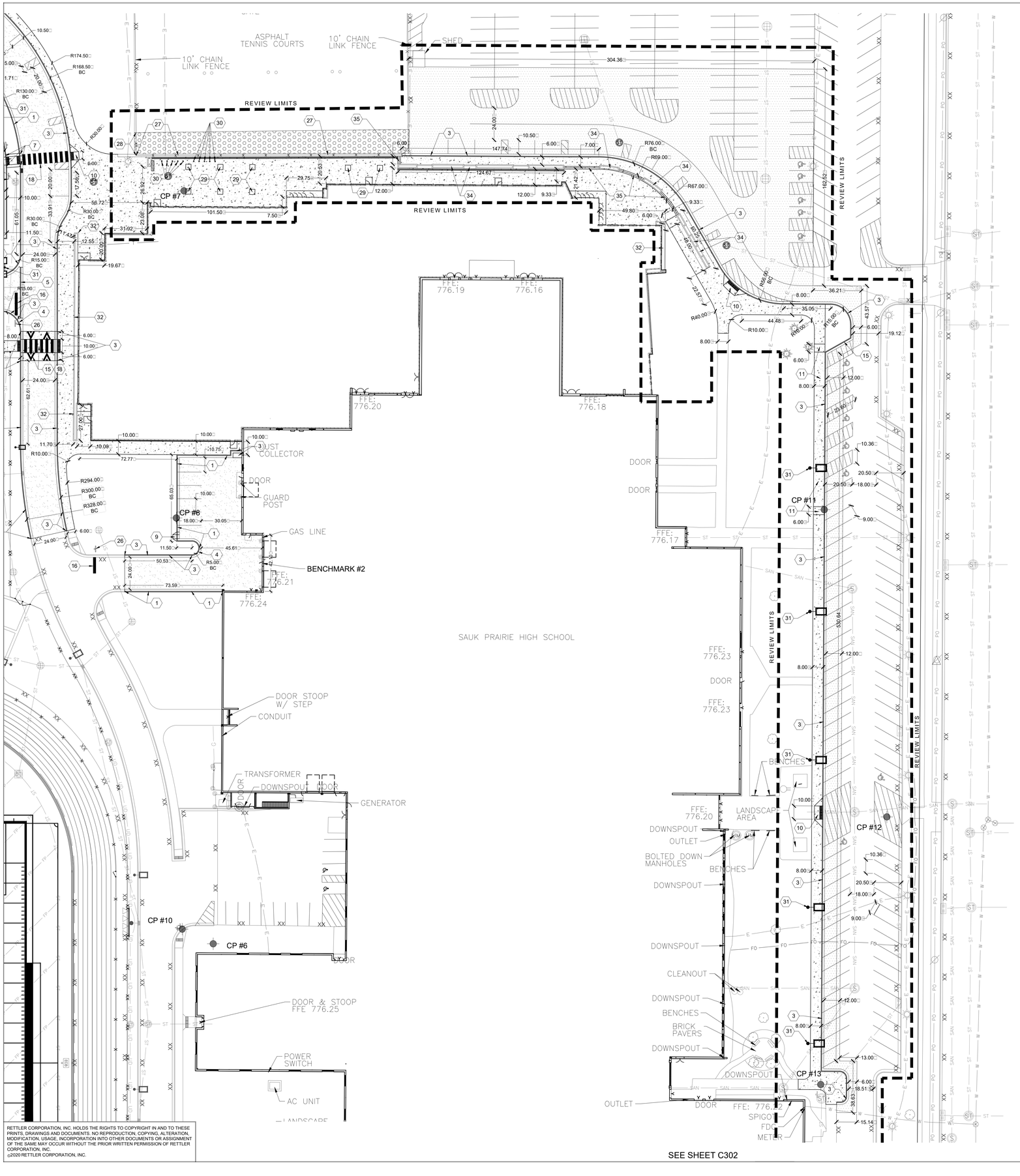

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RIVER ROCK

8H BLACK VINYL CHAIN LINK FENCING
W/ GALVANI□ED STEEL BASE PLATE

10H BLACK VINYL CHAIN LINK FENCING

DETECTABLE WARNING FIELD(S) (WISDOT SSD 08D05-□)

LIMITS OF CONSTRUCTION

SITE LAYOUT - KEYNOTES

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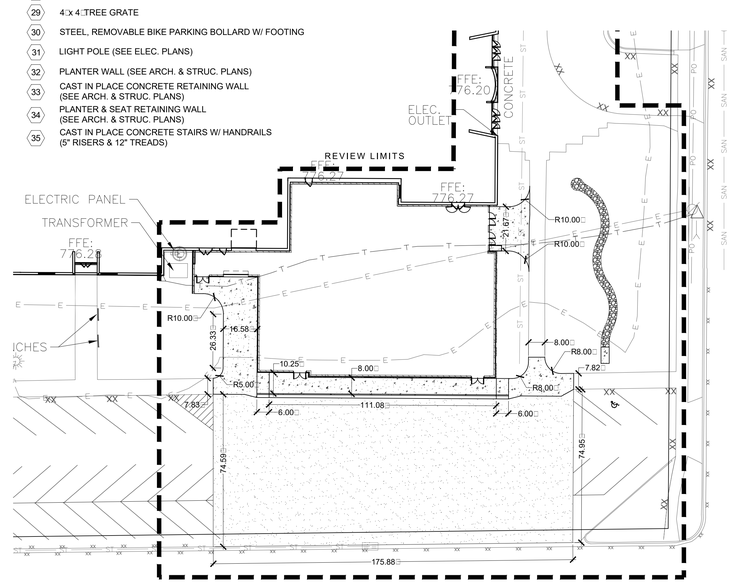
R1-1
30"X30"



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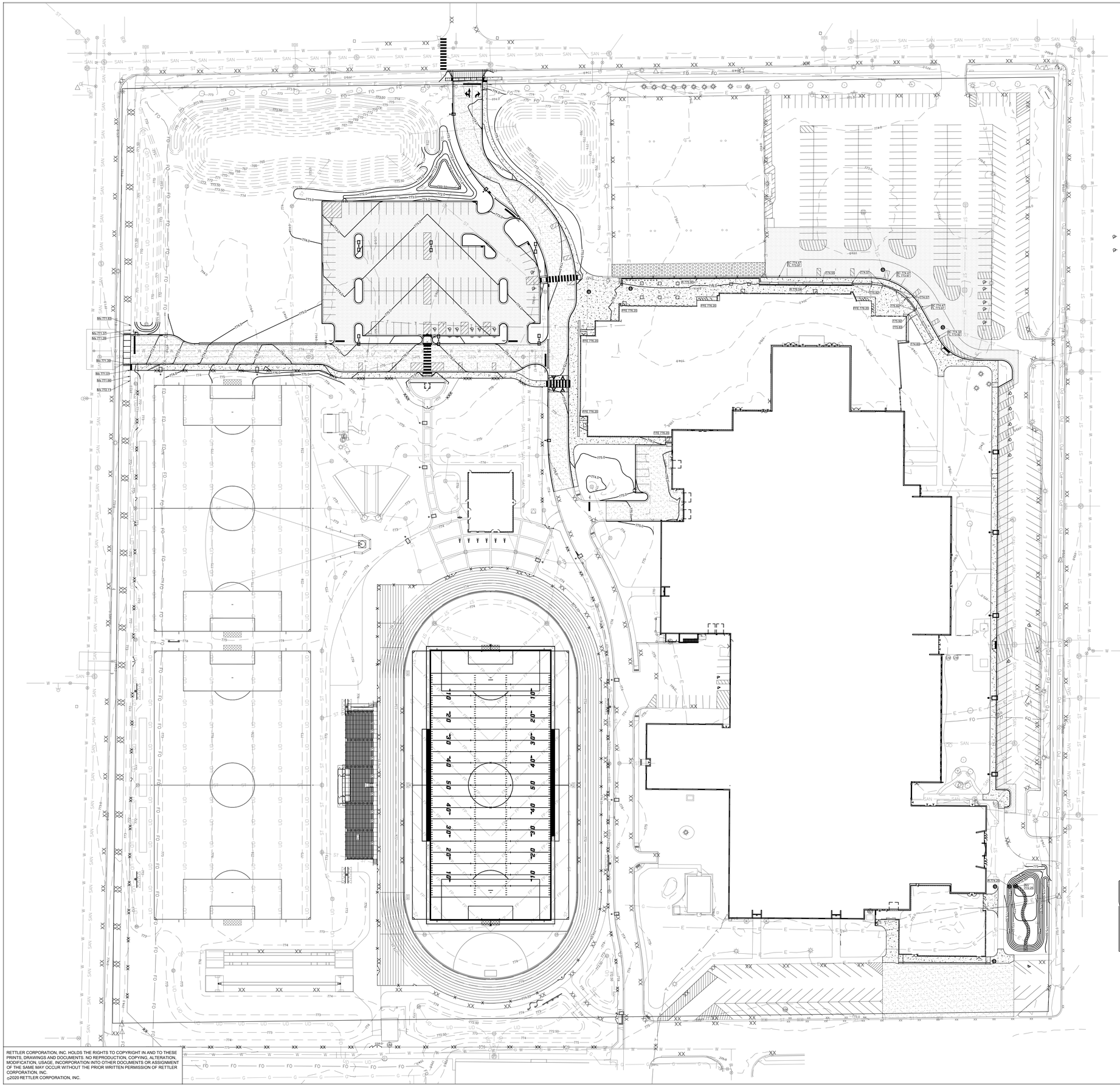
SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1A

SITE LAYOUT PLAN - EAST

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

C301



SITE GRADING AND EROSION CONTROL - LEGEND

PROPOSED CONTOURS	773
EXISTING CONTOURS	773
PROPOSED SPOT ELEVATION	773.00
MATCH EXISTING SPOT ELEVATION	M ±
PROPOSED ENDWALL INVERT ELEVATION	INV
PROPOSED BACK OF CURB PROPOSED FLOW LINE	BC FL
PROPOSED RIM ELEVATION	R
PHASE 1 PROPOSED RIM ELEVATION FUTURE PHASE PROPOSED RIM ELEVATION	PHASE 1 R FUTURE R
TEMPORARY TRACKING PAD	1 C800
CONCRETE WASHOUT AREA	2 C800
INLET PROTECTION	3 C800
SILT FENCE	4 C800
SILT FENCE OUTLET	5 C800
TEMPORARY DITCH CHECK USING ROCK BAGS	6 C800
EROSION MAT CLASS I TYPE A	7 C800
24" THICK MEDIUM RIPRAP W/ GEOTEXTILE FABRIC, TYPE HR	8 C800
PHASE 1 LIMITS OF CONSTRUCTION (GRADING)	
FUTURE PHASE LIMITS OF CONSTRUCTION (GRADING)	

SITE GRADING AND EROSION CONTROL - GENERAL NOTES

1. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE PROJECT MANAGER.
2. FINISH GRADE (FG) IS THE TOP OF THE TURF INFILL.
3. THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNMENT EROSION CONTROL INSPECTOR AT LEAST 2 DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
4. THE SITE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL ELEMENTS IN ACCORDANCE WITH THE DEPARTMENT OF NATURAL RESOURCES AND THE LOCAL GOVERNING AUTHORITIES REGULATIONS.
5. PLACE INLET PROTECTION UNDER THE PROPOSED AND EXISTING CATCH BASINS, MANHOLES, AND INLETS GRATES FOR THE DURATION OF CONSTRUCTION.
6. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SE□UENCE AS TO MINIMI□E THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
7. PLACE TEMPORARY SEED IF DISTURBED AREAS WILL NOT BE RESTORED IMMEDIATELY AFTER ROUGH GRADING. TEMPORARY SEED SHALL BE PLACED IN ACCORDANCE WITH SECTION 630 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
8. INSPECT ALL EROSION CONTROL ELEMENTS WEEKLY OR AFTER STORM EVENTS OF 1/2" OF RAIN OR GREATER AND DOCUMENT IN ACCORDANCE WITH THE RE□UIREMENTS OF THE DEPARTMENT OF NATURAL RESOURCES.
9. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREA, INCLUDING SOIL STOCKPILES LEFT INACTIVE FOR MORE THAN 10 DAYS, SHALL AT A MINIMUM BE TEMPORARILY STABILI□ED BY SEEDING/MULCHING OR OTHER METHODS APPROVED BY THE LOCAL GOVERNING AUTHORITY S EROSION CONTROL INSPECTOR.
10. ALL OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. FLUSHING SHALL NOT BE ALLOWED.
11. ALL SEDIMENT LADEN WATER PUMPED FROM THE SITE SHALL BE TREATED BY A TEMPORARY SEDIMENT BASIN OR BE FILTERED BY OTHER APPROVED MEANS. WATER SHALL NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS.
12. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF THE WORK DAY.
13. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION AFTER STABILI□ATION OF DISTURBED SOIL HAS OCCURRED.
14. ALL WASTE AND UNUSED BUILDING MATERIALS SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
15. SEED / FERTILI□E / AND CRIMP MULCH ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT MANUAL SPECIFICATIONS AND WITHIN 3 WORKING DAYS OF FINAL GRADING.
16. ALL EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF GRASS IS ESTABLISHED IN ALL GENERAL LANDSCAPE AREAS, AND THEN REMOVED BY THE SITE CONTRACTOR.
17. IN THE CASE OF LATE SEASON AND WINTER CONSTRUCTION, RESTORATION/LANDSCAPING OF THE SITE SHALL OCCUR NO LATER THAN JUNE 1ST OF THE NEXT CONSTRUCTION SEASON. EROSION CONTROL MEASURES SHALL REMAIN INTACT UNTIL FINAL RESTORATION OF THE SITE IS COMPLETE. FABRIC INSIDE THE INLET AND CATCH BASIN GRATING SHALL BE REMOVED AS SOON AS FREE□ING WEATHER OCCURS SO DRAINAGE IS NOT IMPAIRED THROUGHOUT THE WINTER MONTHS. ALL EROSION CONTROL PRACTICES REMOVED OR DAMAGED DUE TO WINTER WEATHER SHALL BE REPLACED IN THE SPRING IMMEDIATELY AFTER THE THAW.

CONSTRUCTION EROSION CONTROL SE□UENCE

CONSTRUCTION ACTIVITY	SCHEDULED CONTROL MEASURES
1. CONSTRUCTION ACCESS - CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, AND E□UIPMENT PARKING AREAS.	FIRST LAND DISTURBING ACTIVITY - TRACKING PAD WILL BE CONSTRUCTED AT THE ENTRANCE(S) TO THE SITE. BARE AREAS USED FOR CONSTRUCTION STAGING/PARKING WILL BE STABILI□ED WITH GRAVEL AS CONSTRUCTION TAKES PLACE.
2. SEDIMENT BARRIERS - SILT FENCE, SILT FENCE OUTLETS, INLET AND OUTLET PROTECTION.	INSTALL SILT FENCE AND SILT FENCE OUTLETS AT LOCATIONS INDICATED ON THE PLANS. INSTALL INLET PROTECTION UNITS IN EXISTING INLETS IMMEDIATELY AFTER PROJECT SITE IS ACCESSED.
4. RUNOFF CONTROL - RUNOFF IS LIMITED TO INTERIOR OF PROJECT.	INSTALL EROSION MAT, POLYMER BLOCKS AND ADDITIONAL PRACTICES OUTLINED ABOVE AS NECESSARY DURING GRADING. ESTABLISH AREAS FOR PREVENTING THE TRANSPORT OF CHEMICALS, CEMENT, AND OUT BUILDING COMPOUNDS INCLUDING WASH WATER FROM VEHICLES SUCH AS CONCRETE TRUCKS.
5. RUNOFF CONVEYANCE SYSTEM - CONSTRUCT STORM SEWER SYSTEM.	INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF CONTROL MEASURES. STABILI□E STORM DRAINS, INSTALL INLET AND OUTLET PROTECTION AS EARLY AS POSSIBLE.
6. LAND CLEARING AND GRADING - SITE PREPARATION, CUTTING, FILLING, GRADING AND TOPSOIL STOCKPILES.	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL EROSION CONTROL PRACTICES HAVE BEEN INSTALLED. CLEAR AND GRADE ONLY AS NEEDED. INSTALL ADDITIONAL MEASURES AS NECESSARY SUCH AS SILT FENCE OR SPRAYED POLYMER AROUND TOPSOIL STOCKPILES. AREAS WITHIN 30 FEET OF STATE WATER BODIES WILL BE STABILI□ED WITH EROSION MATS. MARK TREES AND BUFFER AREAS FOR PRESERVATION.
7. SURFACE STABILI□ATION - TEMPORARY AND PERMANENT SEEDING, AND MULCHING.	APPLY TEMPORARY OR PERMANENT STABILI□ATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
8. LANDSCAPING AND FINAL STABILI□ATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP	LAST CONSTRUCTION PHASE - STABILI□E ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND STABILI□E ALL TEMPORARY PRACTICES.
9. WINTER STABILI□ATION - IN THE EVENT THE PROJECT IS NOT COMPLETED BEFORE NOVEMBER 2020	APPLY SPRAYED POLYMER AROUND STOCKPILES AND OPEN AREAS NOT YET STABILI□ED. MONITOR PER SUPPLIER RECOMMENDATIONS. SEEDING - PERMANENT SEEDING IF DONE BEFORE SEPTEMBER 15.□TEMPORARY SEEDING THEN RESEED IF DONE BETWEEN SEPTEMBER 15 AND OCTOBER 15.□DORMANT SEED AFTER OCTOBER 15.

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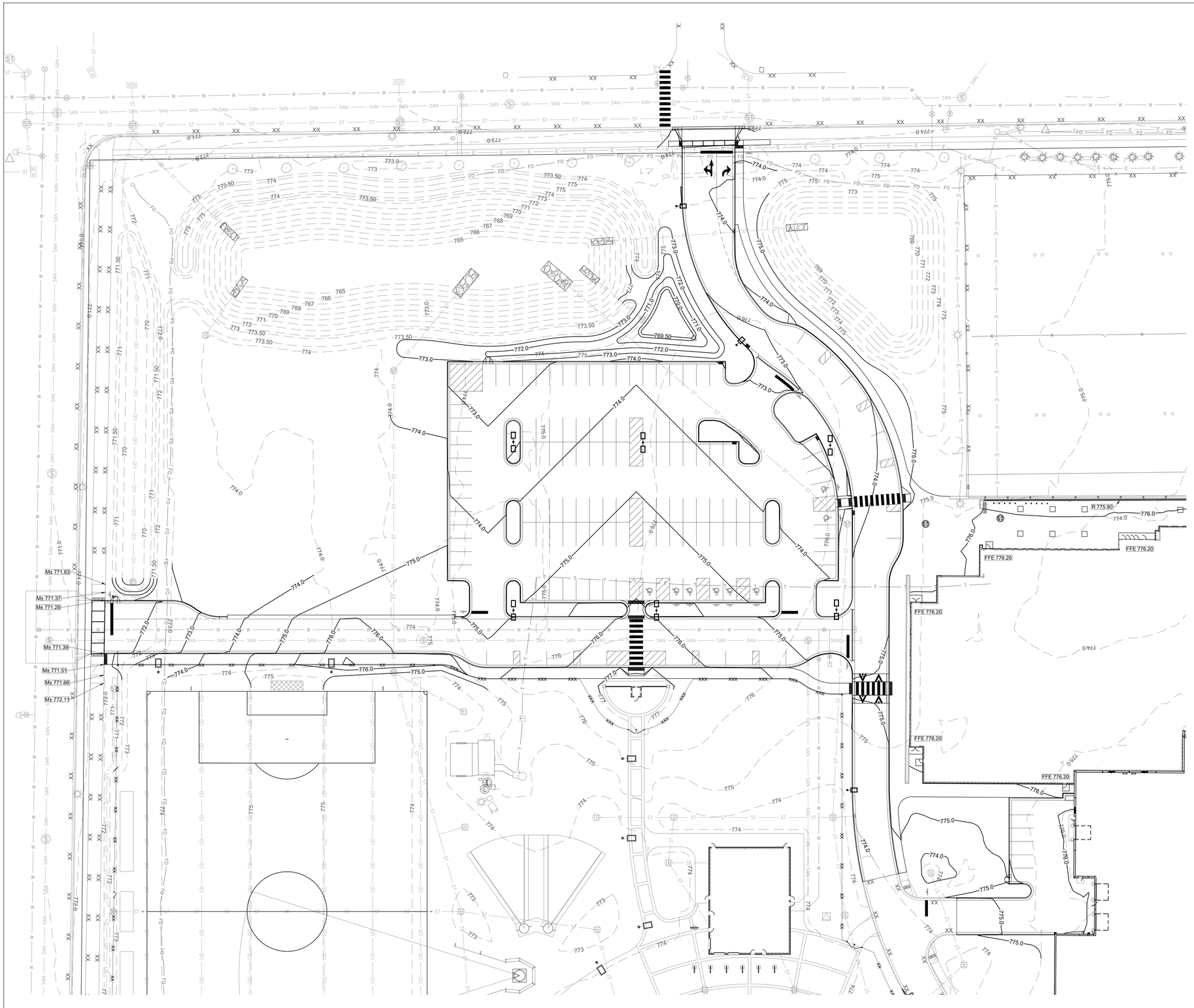
SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1A

OVERALL SITE GRADING AND EROSION CONTROL PLAN

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

C400



SITE GRADING AND EROSION CONTROL - LEGEND

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- EXISTING CONTOURS — 773
- PROPOSED SPOT ELEVATION — 773.00
- MATCH EXISTING SPOT ELEVATION — M ±
- PROPOSED ENDWALL INVERT ELEVATION — INV
- PROPOSED BACK OF CURB / PROPOSED FLOW LINE — BC / FL
- PROPOSED RIM ELEVATION — R
- PHASE 1 PROPOSED RIM ELEVATION / FUTURE PHASE PROPOSED RIM ELEVATION — PHASE 1 R / FUTURE R
- TEMPORARY TRACKING PAD — 1 C800
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15. SEED / FERTILI□E / AND CRIMP MULCH ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT MANUAL SPECIFICATIONS AND WITHIN 3 WORKING DAYS OF FINAL GRADING.
16. ALL EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF GRASS IS ESTABLISHED IN ALL GENERAL LANDSCAPE AREAS, AND THEN REMOVED BY THE SITE CONTRACTOR.
17. IN THE CASE OF LATE SEASON AND WINTER CONSTRUCTION, RESTORATION/LANDSCAPING OF THE SITE SHALL OCCUR NO LATER THAN JUNE 1ST OF THE NEXT CONSTRUCTION SEASON. EROSION CONTROL MEASURES SHALL REMAIN INTACT UNTIL FINAL RESTORATION OF THE SITE IS COMPLETE. FABRIC INSIDE THE INLET AND CATCH BASIN GRATING SHALL BE REMOVED AS SOON AS FREE□ING WEATHER OCCURS SO DRAINAGE IS NOT IMPAIRED THROUGHOUT THE WINTER MONTHS. ALL EROSION CONTROL PRACTICES REMOVED OR DAMAGED DUE TO WINTER WEATHER SHALL BE REPLACED IN THE SPRING IMMEDIATELY AFTER THE THAW.

CONSTRUCTION EROSION CONTROL SE□UENCE

CONSTRUCTION ACTIVITY	SCHEDULED CONTROL MEASURES
1. CONSTRUCTION ACCESS - CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, AND E□UIPMENT PARKING AREAS.	FIRST LAND DISTURBING ACTIVITY - TRACKING PAD WILL BE CONSTRUCTED AT THE ENTRANCE(S) TO THE SITE. BARE AREAS USED FOR CONSTRUCTION STAGING/PARKING WILL BE STABILI□ED WITH GRAVEL AS CONSTRUCTION TAKES PLACE.
2. SEDIMENT BARRIERS - SILT FENCE, SILT FENCE OUTLETS, INLET AND OUTLET PROTECTION.	INSTALL SILT FENCE AND SILT FENCE OUTLETS AT LOCATIONS INDICATED ON THE PLANS. INSTALL INLET PROTECTION UNITS IN EXISTING INLETS IMMEDIATELY AFTER PROJECT SITE IS ACCESSED.
4. RUNOFF CONTROL - RUNOFF IS LIMITED TO INTERIOR OF PROJECT.	INSTALL EROSION MAT, POLYMER BLOCKS AND ADDITIONAL PRACTICES OUTLINED ABOVE AS NECESSARY DURING GRADING. ESTABLISH AREAS FOR PREVENTING THE TRANSPORT OF CHEMICALS, CEMENT, AND OUT BUILDING COMPOUNDS INCLUDING WASH WATER FROM VEHICLES SUCH AS CONCRETE TRUCKS.
5. RUNOFF CONVEYANCE SYSTEM - CONSTRUCT STORM SEWER SYSTEM.	INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF CONTROL MEASURES. STABILI□E STORM DRAINS, INSTALL INLET AND OUTLET PROTECTION AS EARLY AS POSSIBLE.
6. LAND CLEARING AND GRADING - SITE PREPARATION, CUTTING, FILLING, GRADING AND TOPSOIL STOCKPILES.	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL EROSION CONTROL PRACTICES HAVE BEEN INSTALLED. CLEAR AND GRADE ONLY AS NEEDED. INSTALL ADDITIONAL MEASURES AS NECESSARY SUCH AS SILT FENCE OR SPRAYED POLYMER AROUND TOPSOIL STOCKPILES. AREAS WITHIN 30 FEET OF STATE WATER BODIES WILL BE STABILI□ED WITH EROSION MATS. MARK TREES AND BUFFER AREAS FOR PRESERVATION.
7. SURFACE STABILI□ATION - TEMPORARY AND PERMANENT SEEDING, AND MULCHING.	APPLY TEMPORARY OR PERMANENT STABILI□ATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
8. LANDSCAPING AND FINAL STABILI□ATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP	LAST CONSTRUCTION PHASE - STABILI□E ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND STABILI□E ALL TEMPORARY PRACTICES.
9. WINTER STABILI□ATION - IN THE EVENT THE PROJECT IS NOT COMPLETED BEFORE NOVEMBER 2020	APPLY SPRAYED POLYMER AROUND STOCKPILES AND OPEN AREAS NOT YET STABILI□ED. MONITOR PER SUPPLIER RECOMMENDATIONS. SEEDING - PERMANENT SEEDING IF DONE BEFORE SEPTEMBER 15□TEMPORARY SEEDING THEN RESEED IF DONE BETWEEN SEPTEMBER 15 AND OCTOBER 15□DORMANT SEED AFTER OCTOBER 15.

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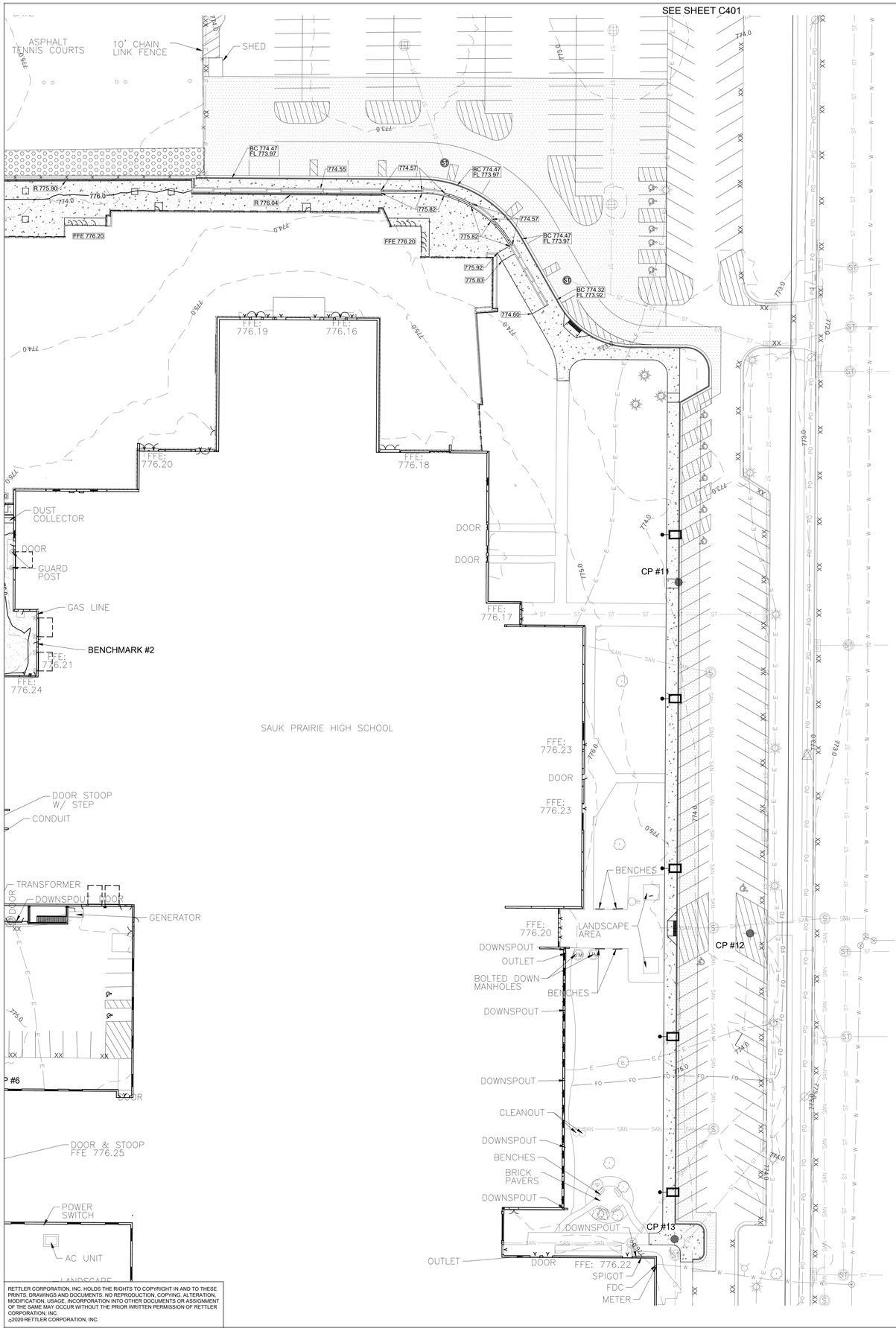
SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1A

SITE GRADING AND EROSION CONTROL PLAN - WEST

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

C401



SITE GRADING AND EROSION CONTROL - LEGEND

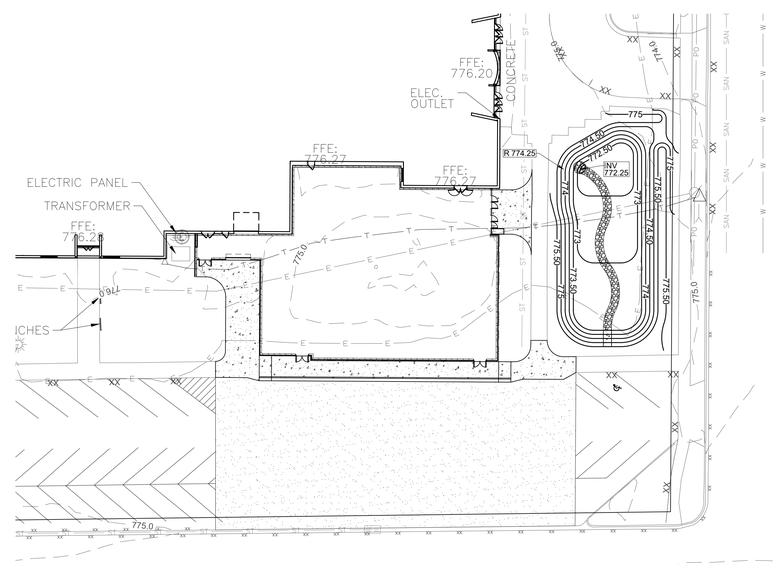
- PROPOSED CONTOURS — 773
- EXISTING CONTOURS — 773
- PROPOSED SPOT ELEVATION — 773.00
- MATCH EXISTING SPOT ELEVATION — M ±
- PROPOSED ENDWALL INVERT ELEVATION — INV
- PROPOSED BACK OF CURB / PROPOSED FLOW LINE — BC / FL
- PROPOSED RIM ELEVATION — R
- PHASE 1 PROPOSED RIM ELEVATION / FUTURE PHASE PROPOSED RIM ELEVATION — PHASE 1 R / FUTURE R
- TEMPORARY TRACKING PAD — 1 C800
- CONCRETE WASHOUT AREA — 2 C800
- INLET PROTECTION — 3 C800
- SILT FENCE — 4 C800
- SILT FENCE OUTLET — 5 C800
- TEMPORARY DITCH CHECK USING ROCK BAGS — 6 C800
- EROSION MAT CLASS I TYPE A — 7 C800
- 24" THICK MEDIUM RIPRAP W/ GEOTEXTILE FABRIC, TYPE HR — 8 C800
- PHASE 1 LIMITS OF CONSTRUCTION (GRADING)
- FUTURE PHASE LIMITS OF CONSTRUCTION (GRADING)

CONSTRUCTION EROSION CONTROL SE□UENCE

CONSTRUCTION ACTIVITY	SCHEDULED CONTROL MEASURES
1. CONSTRUCTION ACCESS - CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, AND E□UIPMENT PARKING AREAS.	FIRST LAND DISTURBING ACTIVITY - TRACKING PAD WILL BE CONSTRUCTED AT THE ENTRANCE(S) TO THE SITE. BARE AREAS USED FOR CONSTRUCTION STAGING/PARKING WILL BE STABILI□ED WITH GRAVEL AS CONSTRUCTION TAKES PLACE.
2. SEDIMENT BARRIERS - SILT FENCE, SILT FENCE OUTLETS, INLET AND OUTLET PROTECTION.	INSTALL SILT FENCE AND SILT FENCE OUTLETS AT LOCATIONS INDICATED ON THE PLANS. INSTALL INLET PROTECTION UNITS IN EXISTING INLETS IMMEDIATELY AFTER PROJECT SITE IS ACCESSED.
4. RUNOFF CONTROL - RUNOFF IS LIMITED TO INTERIOR OF PROJECT.	INSTALL EROSION MAT, POLYMER BLOCKS AND ADDITIONAL PRACTICES OUTLINED ABOVE AS NECESSARY DURING GRADING. ESTABLISH AREAS FOR PREVENTING THE TRANSPORT OF CHEMICALS. CEMENT, AND OUT BUILDING COMPOUNDS INCLUDING WASH WATER FROM VEHICLES SUCH AS CONCRETE TRUCKS.
5. RUNOFF CONVEYANCE SYSTEM - CONSTRUCT STORM SEWER SYSTEM.	INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF CONTROL MEASURES. STABILI□E STORM DRAINS, INSTALL INLET AND OUTLET PROTECTION AS EARLY AS POSSIBLE.
6. LAND CLEARING AND GRADING - SITE PREPARATION, CUTTING, FILLING, GRADING AND TOPSOIL STOCKPILES.	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL EROSION CONTROL PRACTICES HAVE BEEN INSTALLED. CLEAR AND GRADE ONLY AS NEEDED. INSTALL ADDITIONAL MEASURES AS NECESSARY SUCH AS SILT FENCE OR SPRAYED POLYMER AROUND TOPSOIL STOCKPILES. AREAS WITHIN 30 FEET OF STATE WATER BODIES WILL BE STABILI□ED WITH EROSION MATS. MARK TREES AND BUFFER AREAS FOR PRESERVATION.
7. SURFACE STABILI□ATION - TEMPORARY AND PERMANENT SEEDING, AND MULCHING.	APPLY TEMPORARY OR PERMANENT STABILI□ATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
8. LANDSCAPING AND FINAL STABILI□ATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP	LAST CONSTRUCTION PHASE - STABILI□E ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREAS. REMOVE AND STABILI□E ALL TEMPORARY PRACTICES.
9. WINTER STABILI□ATION - IN THE EVENT THE PROJECT IS NOT COMPLETED BEFORE NOVEMBER 2020	APPLY SPRAYED POLYMER AROUND STOCKPILES AND OPEN AREAS NOT YET STABILI□ED. MONITOR PER SUPPLIER RECOMMENDATIONS. SEEDING - PERMANENT SEEDING IF DONE BEFORE SEPTEMBER 15.□TEMPORARY SEEDING THEN RESEED IF DONE BETWEEN SEPTEMBER 15 AND OCTOBER 15□DORMANT SEED AFTER OCTOBER 15.

SITE GRADING AND EROSION CONTROL - GENERAL NOTES

1. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE PROJECT MANAGER.
2. FINISH GRADE (FG) IS THE TOP OF THE TURF INFILL.
3. THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNMENT EROSION CONTROL INSPECTOR AT LEAST 2 DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
4. THE SITE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL ELEMENTS IN ACCORDANCE WITH THE DEPARTMENT OF NATURAL RESOURCES AND THE LOCAL GOVERNING AUTHORITIES REGULATIONS.
5. PLACE INLET PROTECTION UNDER THE PROPOSED AND EXISTING CATCH BASINS, MANHOLES, AND INLETS GRATES FOR THE DURATION OF CONSTRUCTION.
6. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SE□UENCE AS TO MINIMI□E THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
7. PLACE TEMPORARY SEED IF DISTURBED AREAS WILL NOT BE RESTORED IMMEDIATELY AFTER ROUGH GRADING. TEMPORARY SEED SHALL BE PLACED IN ACCORDANCE WITH SECTION 630 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
8. INSPECT ALL EROSION CONTROL ELEMENTS WEEKLY OR AFTER STORM EVENTS OF 1/2" OF RAIN OR GREATER AND DOCUMENT IN ACCORDANCE WITH THE RE□UIREMENTS OF THE DEPARTMENT OF NATURAL RESOURCES.
9. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREA, INCLUDING SOIL STOCKPILES LEFT INACTIVE FOR MORE THAN 10 DAYS, SHALL AT A MINIMUM BE TEMPORARILY STABILI□ED BY SEEDING/MULCHING OR OTHER METHODS APPROVED BY THE LOCAL GOVERNING AUTHORITY.S EROSION CONTROL INSPECTOR.
10. ALL OFF SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. FLUSHING SHALL NOT BE ALLOWED.
11. ALL SEDIMENT LADEN WATER PUMPED FROM THE SITE SHALL BE TREATED BY A TEMPORARY SEDIMENT BASIN OR BE FILTERED BY OTHER APPROVED MEANS. WATER SHALL NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS.
12. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF THE WORK DAY.
13. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION AFTER STABILI□ATION OF DISTURBED SOIL HAS OCCURRED.
14. ALL WASTE AND UNUSED BUILDING MATERIALS SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
15. SEED / FERTILI□E / AND CRIMP MULCH ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT MANUAL SPECIFICATIONS AND WITHIN 3 WORKING DAYS OF FINAL GRADING.
16. ALL EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF GRASS IS ESTABLISHED IN ALL GENERAL LANDSCAPE AREAS, AND THEN REMOVED BY THE SITE CONTRACTOR.
17. IN THE CASE OF LATE SEASON AND WINTER CONSTRUCTION, RESTORATION/LANDSCAPING OF THE SITE SHALL OCCUR NO LATER THAN JUNE 1ST OF THE NEXT CONSTRUCTION SEASON. EROSION CONTROL MEASURES SHALL REMAIN INTACT UNTIL FINAL RESTORATION OF THE SITE IS COMPLETE. FABRIC INSIDE THE INLET AND CATCH BASIN GRATING SHALL BE REMOVED AS SOON AS FREE□ING WEATHER OCCURS SO DRAINAGE IS NOT IMPAIRED THROUGHOUT THE WINTER MONTHS. ALL EROSION CONTROL PRACTICES REMOVED OR DAMAGED DUE TO WINTER WEATHER SHALL BE REPLACED IN THE SPRING IMMEDIATELY AFTER THE THAW.



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SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1A

SITE GRADING AND EROSION CONTROL PLAN - EAST

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

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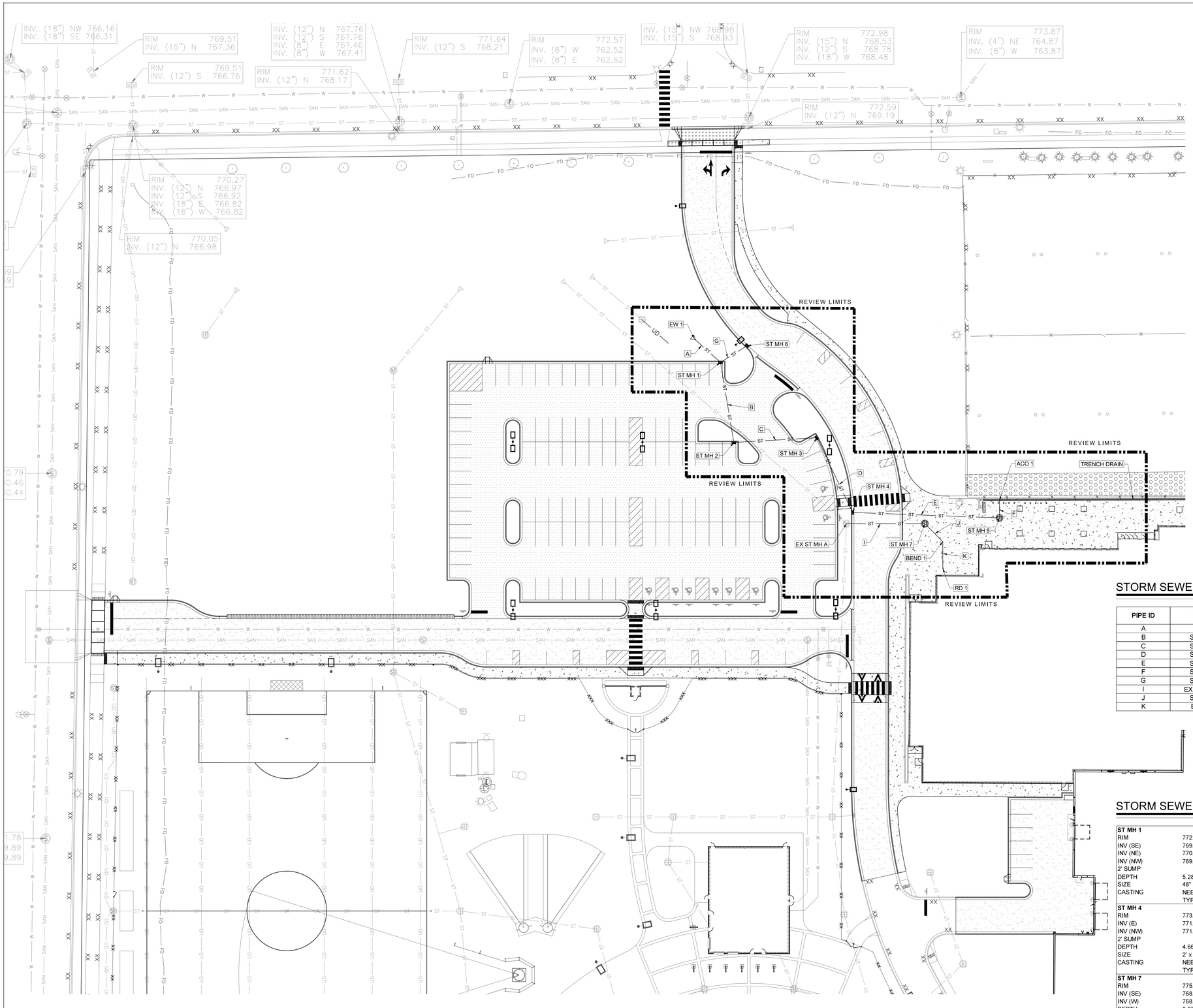

SITE STORM SEWER - GENERAL NOTES

1. ANY EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE DOCUMENTS WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN THE BID.
2. STORM SEWER CONTRACTOR SHALL VERIFY PROPOSED STORM SEWER OUTFALL ELEVATION PRIOR TO CONSTRUCTION.
3. STORM SEWER CONTRACTOR SHALL COORDINATE INSTALLATION OF STORM SEWER PIPE WITH OWNER PRIOR TO THE START OF CONSTRUCTION.
4. COORDINATE ALL UTILITY RELOCATION WITH THE PROPER UTILITY COMPANY.
5. ALL PAVEMENT DISTURBED BY PROPOSED UTILITIES SHALL BE RESTORED IN KIND BY THE CONTRACTOR AND SHALL BE INCLUDED AS PART OF THE BASE BID.
6. ANY WORK DONE WITHIN THE RIGHT OF WAY MUST MATCH THE CITY/ VILLAGE/ TOWN STANDARD SPECIFICATIONS.
7. PROVIDE ACCESS TO TRACER WIRE IN ALL MANHOLES & INLETS. SPLICE TRACER WIRE AS NECESSARY.

SITE STORM SEWER - LEGEND

STORM SEWER PIPE — ST —

4" PERFORATED UNDERDRAIN W/ SOCK — UD — ← 9 / C801

STORM SEWER STRUCTURE NUMBER — ST MH 1

STORM SEWER PIPE ID — A

STORM SEWER STRUCTURE — ST — ← 2-4, 7 / C801

TRENCH DRAIN — TD — ← 10 & 11 / C801

LIMITS OF CONSTRUCTION (UTILITY)

STORM SEWER - PIPE SCHEDULE

PIPE ID	FROM	TO	LENGTH (FT.)	SLOPE (%)	PIPE SIZE (IN.)	PIPE MTL
A	EW 1	ST MH 1	27	0.55	18	HDPE
B	ST MH 1	ST MH 2	61	0.65	15	HDPE
C	ST MH 2	ST MH 3	62	0.55	15	HDPE
D	ST MH 3	ST MH 4	62	0.30	12	HDPE
E	ST MH 4	ST MH 5	110	0.25	8	HDPE
F	ST MH 5	ACO 1	13	6.10	8	HDPE
G	ST MH 1	ST MH 6	24	0.35	12	HDPE
I	EX ST MH A	ST MH 7	59	1.05	15	PVC, SCH. 40
J	ST MH 7	BEND 1	19	1.05	15	PVC, SCH. 40
K	BEND 1	RD 1	20	1.05	15	PVC, SCH. 40

STORM SEWER - STRUCTURE SCHEDULE

ST MH 1		**ST MH 2**		**ST MH 3**	
RIM	772.93	RIM	773.56	RIM	772.75
INV (SE)	769.90	INV (E)	770.30	INV (SE)	770.89
INV (NE)	770.15	INV (NW)	770.30	INV (W)	770.64
INV (NW)	769.65	2' SUMP		2' SUMP	
2' SUMP		DEPTH	5.26	DEPTH	4.11
DEPTH	5.28	SIZE	48" CONC	SIZE	2' x 3' CATCH BASIN
SIZE	48" CONC	CASTING	NEENAH R-3067	CASTING	NEENAH R-3067
CASTING	NEENAH R-3067		TYPE R GRATE		TYPE R GRATE
	TYPE R GRATE				
ST MH 4		**ST MH 5**		**ST MH 6**	
RIM	773.73	RIM	776.03	RIM	772.60
INV (E)	771.41	INV (N)	772.35	INV (SW)	770.23
INV (NW)	771.07	INV (W)	771.68	DEPTH	2.37
2' SUMP		DEPTH	4.35	SIZE	2' x 3' CATCH BASIN
DEPTH	4.66	SIZE	12" PVC	CASTING	NEENAH R-3067
SIZE	2' x 3' CATCH BASIN	CASTING	SOLID		TYPE R GRATE
CASTING	NEENAH R-3067		LOCKING COVER		
	TYPE R GRATE				
ST MH 7		**EX ST MH A**		**BEND 1**	
RIM	775.35	RIM	774.12	FG	775.69
INV (SE)	768.99	EX INV (SW)	767.62	INV	769.19
INV (W)	768.99	NEW INV (E)	768.37	DEPTH	6.50
DEPTH	6.36	EX INV (NW)	767.12	15" PVC, SCH. 40 - 45 DEG. BEND	
SIZE	18" PVC	DEPTH	7.00		
CASTING	SOLID	CONNECT NEW PIPE TO EX MH			
	LOCKING COVER	FIELD VERIFY EX INV ELEVS			
RD 1		**ACO 1**			
FG	775.75	RIM	775.80		
INV (S)	769.40	INV (S)	773.14		
DEPTH	6.35	DEPTH	2.66		
CONNECT TO 15" STUB PROVIDED BY		ACO KLASSIK DRAIN K100			
INTERIOR PLUMBING CONTRACTOR (SEE		TRENCH DRAIN & IN-LINE CATCH BASIN			

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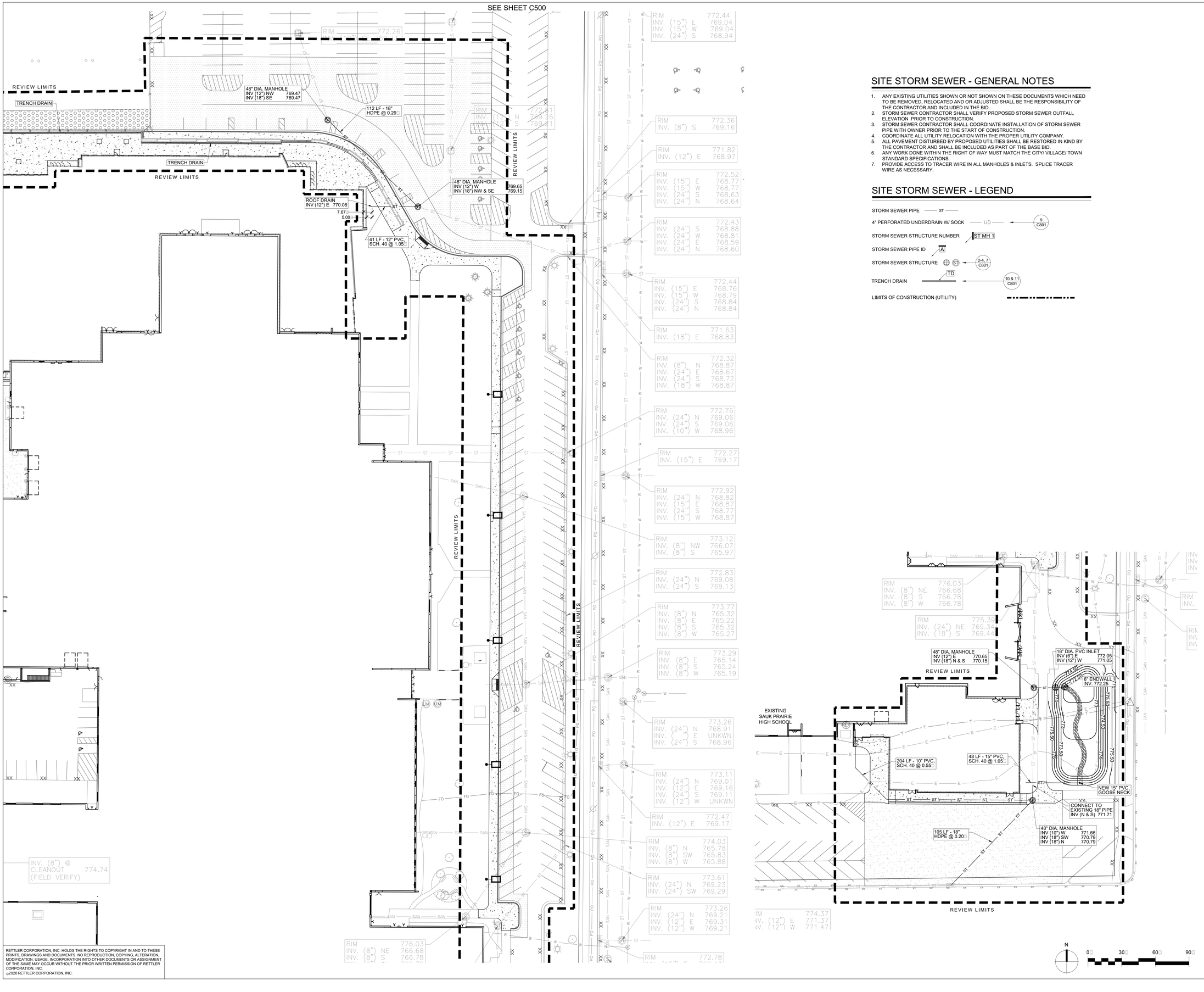
SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1A

SITE STORM SEWER PLAN - WEST

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

C500



SITE STORM SEWER - GENERAL NOTES

1. ANY EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE DOCUMENTS WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN THE BID.
2. STORM SEWER CONTRACTOR SHALL VERIFY PROPOSED STORM SEWER OUTFALL ELEVATION PRIOR TO CONSTRUCTION.
3. STORM SEWER CONTRACTOR SHALL COORDINATE INSTALLATION OF STORM SEWER PIPE WITH OWNER PRIOR TO THE START OF CONSTRUCTION.
4. COORDINATE ALL UTILITY RELOCATION WITH THE PROPER UTILITY COMPANY.
5. ALL PAVEMENT DISTURBED BY PROPOSED UTILITIES SHALL BE RESTORED IN KIND BY THE CONTRACTOR AND SHALL BE INCLUDED AS PART OF THE BASE BID.
6. ANY WORK DONE WITHIN THE RIGHT OF WAY MUST MATCH THE CITY/ VILLAGE/ TOWN STANDARD SPECIFICATIONS.
7. PROVIDE ACCESS TO TRACER WIRE IN ALL MANHOLES & INLETS. SPLICE TRACER WIRE AS NECESSARY.

SITE STORM SEWER - LEGEND

STORM SEWER PIPE — ST —

4" PERFORATED UNDERDRAIN W/ SOCK — UD — (9 / C801)

STORM SEWER STRUCTURE NUMBER — ST MH 1

STORM SEWER PIPE ID — A

STORM SEWER STRUCTURE — ST — (2-4, 7 / C801)

TRENCH DRAIN — TD — (10 & 11 / C801)

LIMITS OF CONSTRUCTION (UTILITY)

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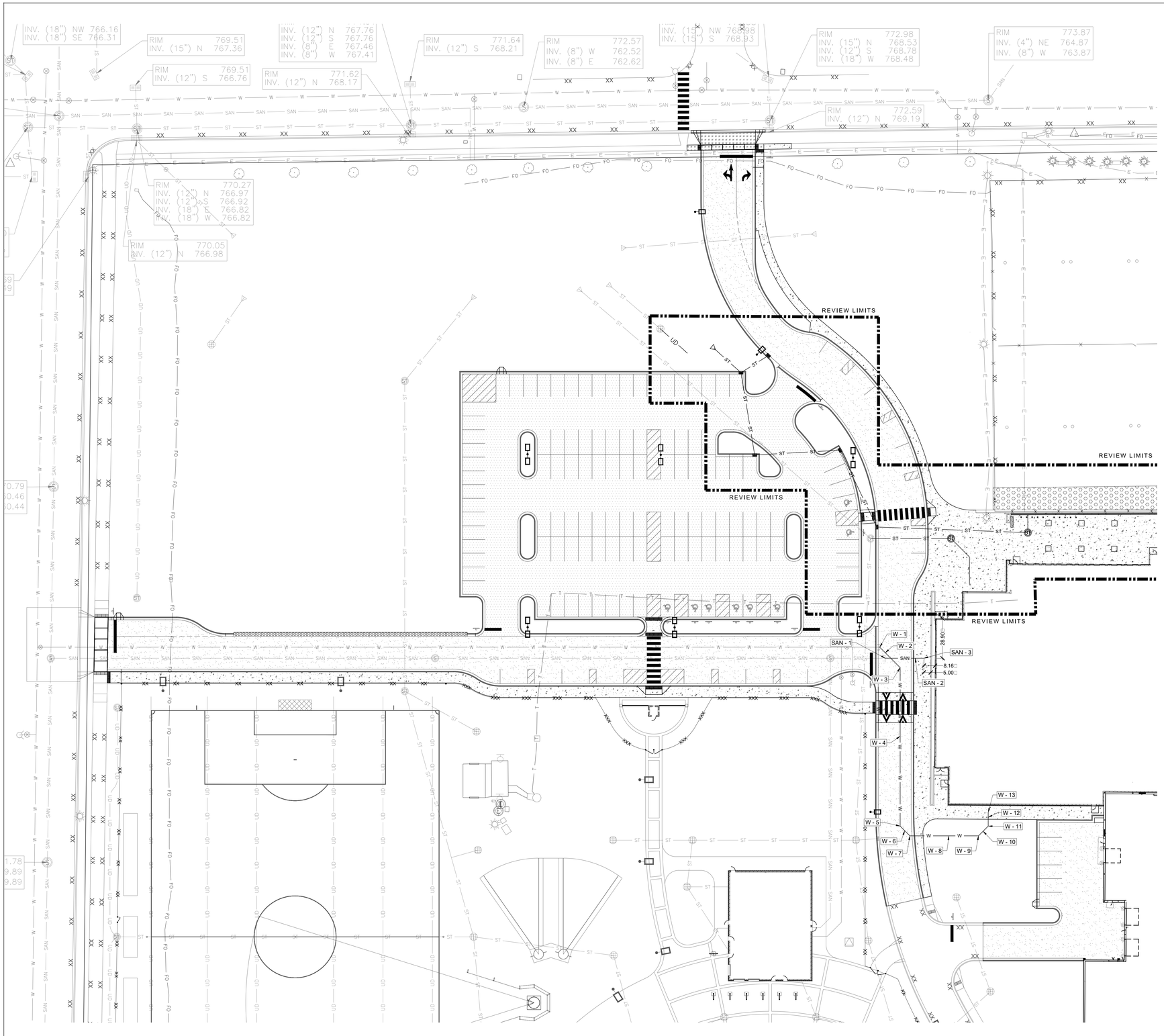

SITE STORM SEWER - GENERAL NOTES

1. ANY EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE DOCUMENTS WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN THE BID.
2. UTILITY CONTRACTOR SHALL VERIFY EXISTING SANITARY SEWER INVERT ELEVATION WHERE THE PROPOSED SANITARY SEWER IS DESIGNED TO CONNECT PRIOR TO CONSTRUCTION.
3. UTILITY CONTRACTOR SHALL VERIFY EXISTING WATER PIPING SI□E, MATERIAL TYPE, AND INVERT ELEVATION WHERE THE PROPOSED WATER PIPING IS DESIGNED TO CONNECT PRIOR TO CONSTRUCTION.
4. UTILITY CONTRACTOR SHALL COORDINATE INSTALLATION OF SANITARY SEWER PIPE AND WATER PIPE WITH OWNER PRIOR TO THE START OF CONSTRUCTION.
5. MAINTAIN A MINIMUM OF 6.0□OF COVER OVER PROPOSED WATER PIPING.
6. COORDINATE ALL UTILITY RELOCATION WITH THE PROPER UTILITY COMPANY.
7. ALL PAVEMENT DISTURBED BY PROPOSED UTILITIES SHALL BE RESTORED IN KIND BY THE CONTRACTOR AND SHALL BE INCLUDED AS PART OF THE BASE BID.
8. ANY WORK DONE WITHIN THE RIGHT OF WAY MUST MATCH THE VILLAGE OF PRAIRIE DU SAC STANDARD SPECIFICATIONS.
9. PROVIDE A COMPLETE TRACER WIRE SYSTEM ON ALL NON-METALIC UTILITY PIPING SYSTEMS IN ACCORDANCE WITH THE RE□UIREMENTS OF THE WISCONSIN PLUMBING CODE AND DETAILS CONTAINED IN THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION.

SITE UTILITY - LEGEND

SANITARY SEWER PIPE — SAN —

SANITARY SEWER NUMBER SAN - 1

WATER PIPE — W — 1 & 2 C802

WATER NUMBER W - 1

LIMITS OF CONSTRUCTION (UTILITY)

SANITARY SEWER - PIPE SCHEDULE

PIPE ID	FROM	TO	LENGTH (FT.)	SLOPE (%)	PIPE SIZE (IN.)	PIPE MTL
SAN -2	SAN - 1	SAN - 3	28	1.05	8	PVC, SDR-35

NOTES:
1.) PIPE LENGTHS INCLUDE THE RADIUS OF MANHOLES.
2.) PIPE LENGTHS DO NOT TAKE INTO ACCOUNT THE DIMENSIONS OF ELBOWS.

SANITARY SEWER - STRUCTURE SCHEDULE

SAN - 1		SAN - 3	
APPROX. FG	774.62	APPROX. FG	775.64
INV (E)	766.92	INV (E)	767.21
EX INV (W)	766.92	INV (W)	767.21
DEPTH	7.70	DEPTH	8.43
REMOVE EXISTING 8" SANITARY PLUG		CONNECTION TO BLDG. PLUMBING BY BLDG. PLUMBING CONTRACTOR	
CONNECT TO EXISTING 8" PIPE FIELD VERIFY EX INV ELEV		(SEE BLDG. PLUMBING PLANS & FIELD VERIFY PIPE MTL., SIZE, LOCATION & INV ELEV)	

WATER - PIPE SCHEDULE

PIPE ID	FROM	TO	LENGTH (FT.)	MIN. COVER (FT.)	PIPE SIZE (IN.)	PIPE MTL
W-2	W-1	W-3	21	6.0	10	DUCTILE IRON
W-4	W-3	W-5	115	6.0	10	DUCTILE IRON
W-6	W-5	W-7	10	6.0	10	DUCTILE IRON
W-8	W-7	W-9	50	6.0	10	DUCTILE IRON
W-10	W-9	W-11	10	6.0	10	DUCTILE IRON
W-12	W-3	W-13	10	6.0	10	DUCTILE IRON

NOTE:
1.) PIPE LENGTHS DO NOT TAKE INTO ACCOUNT THE DIMENSIONS OF TAPPING SADLE, GATE VALVES, TEES, ELBOWS & REDUCERS
2.) MAINTAIN SEPARATION OF WATER MAIN AND SANITARY OR STORM SEWER MAIN PER NR 811.74.

WATER - STRUCTURE SCHEDULE

W-1 10" DI - 45 DEG. ELBOW W/ THRUST BLOCK	**W-3** 10" DI - 45 DEG. ELBOW W/ THRUST BLOCK
CONNECT 10" DI - 45 DEG. ELBOW TO EXISTING 10" DI WATER MAIN	**W-5** 10" DI - 45 DEG. ELBOW W/ THRUST BLOCK
FIELD VERIFY EXISTING PIPE MTL., SIZE, LOCATION & INV. ELEV.	**W-7** 10" DI - 45 DEG. ELBOW W/ THRUST BLOCK
W-9 10" DI - 45 DEG. ELBOW W/ THRUST BLOCK	**W-11** 10" DI - 45 DEG. ELBOW W/ THRUST BLOCK
W-13 CONNECTION TO BLDG. PLUMBING BY BLDG. PLUMBING CONTRACTOR (SEE BLDG. PLUMBING PLANS & FIELD VERIFY PIPE MTL., SIZE, LOCATION & INV. ELEV.)	

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SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1A

SITE UTILITY PLAN

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

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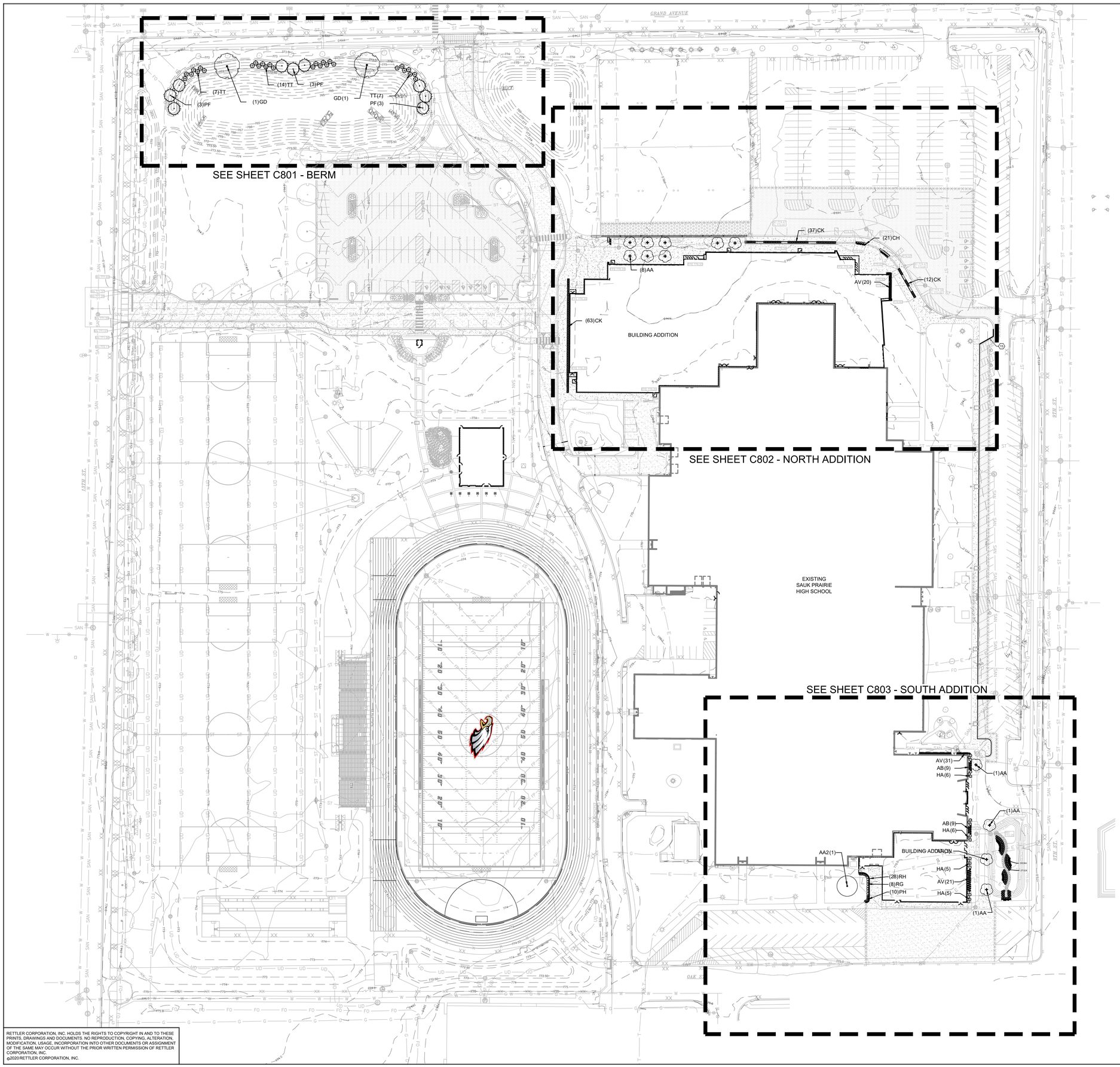

GENERAL NOTES - LANDSCAPE

1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PRIVATE UTILITIES PRIOR TO THE START OF WORK.
3. ALL PLANTS SHALL BE REVIEWED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
4. ALL LANDSCAPE BEDS SHALL CONTAIN A 4" DEPTH OF SHREDDED HARDWOOD BARK MULCH.
5. ALL LANDSCAPE BED AREAS NOT BORDERED BY THE BUILDING OR SITE CONCRETE SHALL CONTAINED BY LANDSCAPE EDGING .
6. LANDSCAPE EDGING SHALL BE ALUMINUM "CURV-RITE" EDGING.
7. ALL GENERAL TURF AREAS SHALL BE FINISH GRADED, SEEDED, FERTILIZED, AND CRIMP HAY MULCHED AS PER THE PROJECT MANUAL SPECIFICATIONS.
8. ALL GENERAL LANDSCAPE AREAS (SEEDING & PLANTING) SHALL HAVE A MINIMUM 6" COMPACTED DEPTH OF TOPSOIL.
9. SEE THE PROJECT MANUAL FOR SPECIFICATIONS AND REQUIREMENTS FOR PLANTING, STAKING OF TREES, WARRANTY PERIOD, MAINTENANCE , ETC.
10. SEE DETAILS FOR PLANTING INSTALLATION.
11. DECORATIVE LANDSCAPE BOULDERS SHOULD BE SIZED AND LOCATED PER PLAN.

SITE LANDSCAPE - LEGEND

APPROXIMATE LIMITS OF CONSTRUCTION LIMITS

ALUMINUM 'CURV-RITE' LANDSCAPE EDGING

PRAIRIE DU SAC LANDSCAPE REQUIRMENTS

BUILDING FOUNDATION

Landscape Calculations and Distribution

100 points of landscaping shall be planted for each 75 lf. of exterior building wall that is visible from a public right-of-way or residentially

Building Foundation Length = 1,206 lf. *Requirement: (1,206 lf. / 75 lf. = 16) 16 x 100 points = 1,600 points required*

PLANT TYPE	MINIMUM SIZE AT INSTALLATION	POINTS	EXISTING		PROPOSED LANDSCAPING	
			QUANTITY	POINTS	QUANTITY	POINTS
Large Deciduous Tree	2" dia.	150	0	0	1	150
Small Deciduous Tree	1.5" dia.	60	0	0	13	780
Evergreen Tree	4' tall	40	0	0	0	0
Deciduous Shrub	2' tall	20	0	0	30	600
Evergreen Shrub	2' tall	20	0	0	0	0
Annual/Perennial Bed	varies	20 per 20sf	0	0	1,010	1010
Bio-retention swales	varies	20 per 100sf	0	0	0	0
					Total Number of Points Provided:	2540

GENERAL YARD

Landscape Calculations and Distribution

100 points of landscaping shall be planted for each 3,000 sf. of total lot area, excluding areas of building foundations, paved surfaces,

Total Lot Area= 73,500 sf. *Requirement: (73,500 sf. / 3,000 sf.= 25) 25 x 100 points = 2,500 points required*

PLANT TYPE	MINIMUM SIZE AT INSTALLATION	POINTS	EXISTING		PROPOSED LANDSCAPING	
			QUANTITY	POINTS	QUANTITY	POINTS
Large Deciduous Tree	2" dia.	150	0	0	3	450
Small Deciduous Tree	1.5" dia.	60	0	0	14	840
Evergreen Tree	4' tall	40	0	0	9	360
Deciduous Shrub	2' tall	20	0	0	30	600
Evergreen Shrub	2' tall	20	0	0	28	560
Annual/Perennial Bed	varies	20 per 20sf	0	0	1010	1010
Bio-retention swales	varies	20 per 100sf	0	0	0	0
					Total Number of Points Provided:	3820

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SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1

SITE LANDSCAPE PLAN

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

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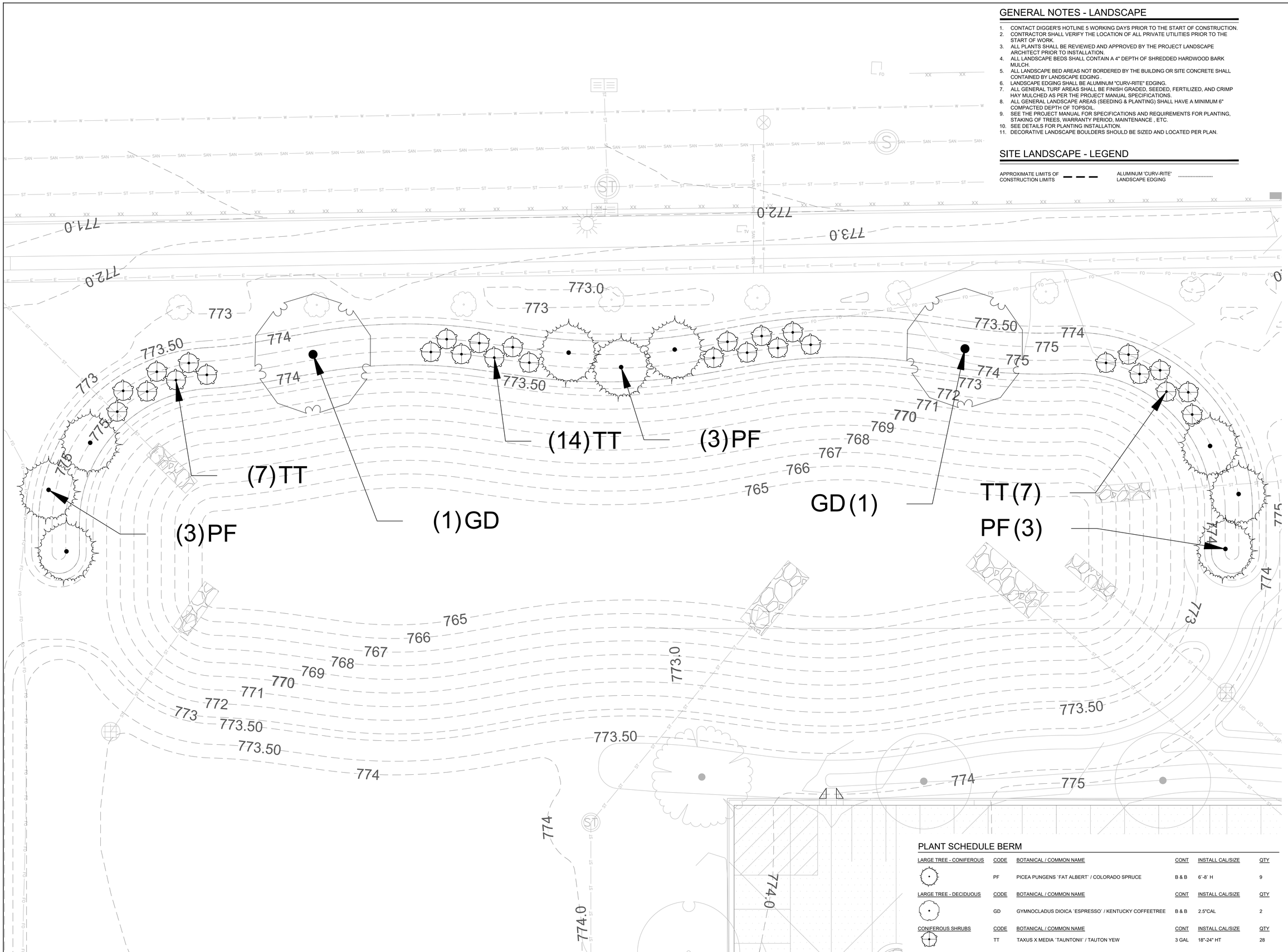

GENERAL NOTES - LANDSCAPE

1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PRIVATE UTILITIES PRIOR TO THE START OF WORK.
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10. SEE DETAILS FOR PLANTING INSTALLATION.
11. DECORATIVE LANDSCAPE BOULDERS SHOULD BE SIZED AND LOCATED PER PLAN.

SITE LANDSCAPE - LEGEND

APPROXIMATE LIMITS OF CONSTRUCTION LIMITS — — —

ALUMINUM 'CURV-RITE' LANDSCAPE EDGING ----------

PLANT SCHEDULE BERM

LARGE TREE - CONIFEROUS	CODE	BOTANICAL / COMMON NAME	CONT	INSTALL CAL/SIZE	QTY
	PF	PICEA PUNGENS 'FAT ALBERT' / COLORADO SPRUCE	B & B	6'-8' H	9

LARGE TREE - DECIDUOUS	CODE	BOTANICAL / COMMON NAME	CONT	INSTALL CAL/SIZE	QTY
	GD	GYMNOCLADUS DIOICA 'ESPRESSO' / KENTUCKY COFFEETREE	B & B	2.5"CAL	2

CONIFEROUS SHRUBS	CODE	BOTANICAL / COMMON NAME	CONT	INSTALL CAL/SIZE	QTY
	TT	TAXUS X MEDIA 'TAUNTONII' / TAUTON YEW	3 GAL	18"-24" HT	28

N

0' 10' 20' 30'

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SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1

SITE LANDSCAPE PLAN - BERM

SAUK PRAIRIE SCHOOL DISTRICT
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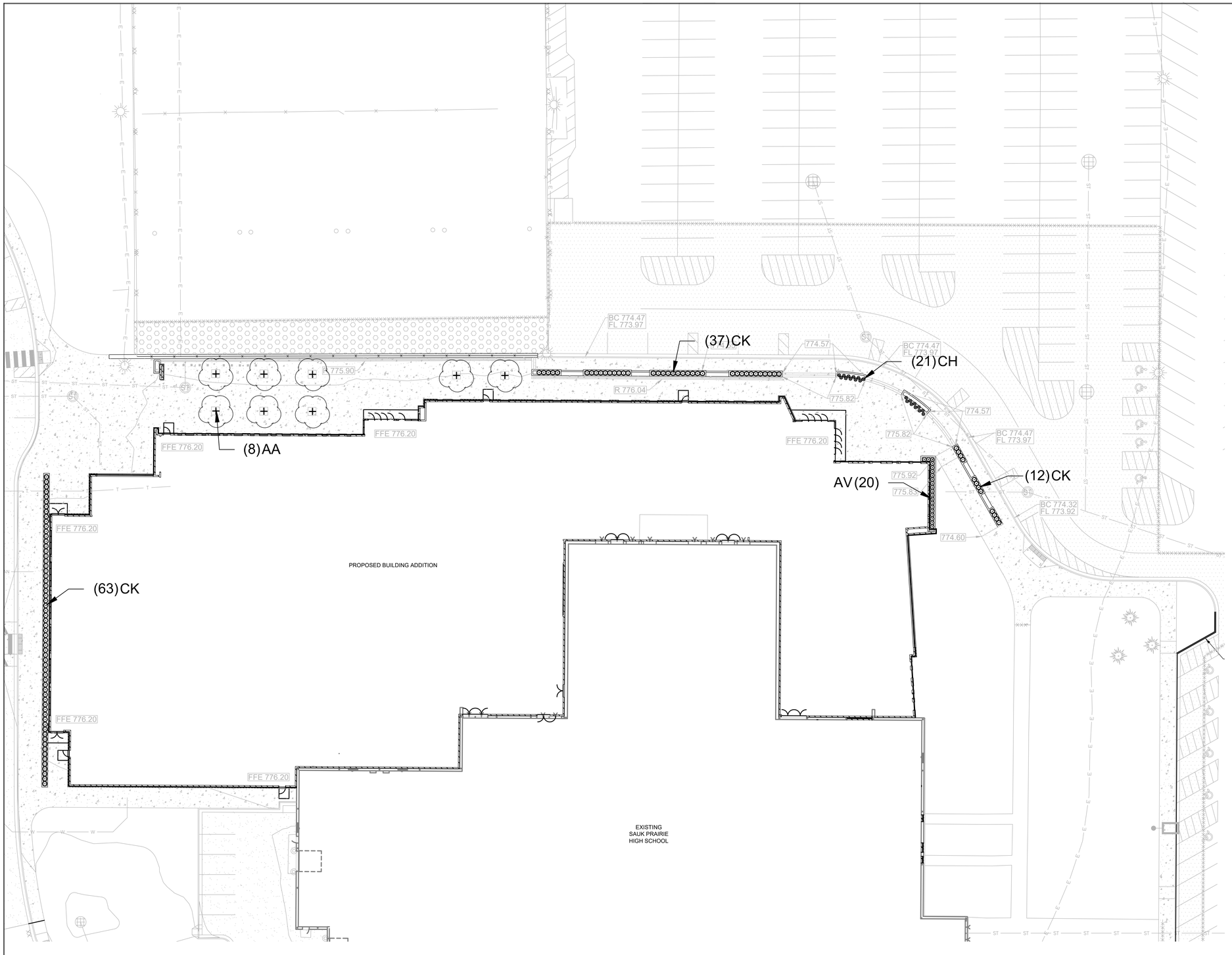

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SITE LANDSCAPE - LEGEND

APPROXIMATE LIMITS OF CONSTRUCTION LIMITS — — —

ALUMINUM 'CURV-RITE' LANDSCAPE EDGING .....

PLANT SCHEDULE NORTH BUILDING ADDITION

SMALL STATURE TREES - DECIDUOUS	CODE	BOTANICAL / COMMON NAME	CONT	INSTALL CAL/SIZE	QTY
	AA	AMELANCHIER CANADENSIS `AUTUMN BRILLIANCE` / AUTUMN BRILLIANCE SERVICEBERRY (SS)	B & B	1.5"CAL	8
ORNAMENTAL GRASSES	**CODE**	**BOTANICAL / COMMON NAME**	**CONT**	**INSTALL CAL/SIZE**	**QTY**
	CK	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS	1 GAL	10"-12"HT	112
PERENNIALS	**CODE**	**BOTANICAL / COMMON NAME**	**CONT**	**INSTALL CAL/SIZE**	**QTY**
	AV	ASTILBE CHINENSIS `VISION IN RED` / VISION IN RED ASTILBE	1 GAL	10"-12"HT	20
	CH	COREOPSIS PERMATHREAD `GLOWING EMBERS` / GLOWING EMBERS TICKSEED	1 GAL	10"-12"HT	21

N

0' 20' 40' 60'

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SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1

SITE LANDSCAPE PLAN
NORTH BUILDING ADDITION

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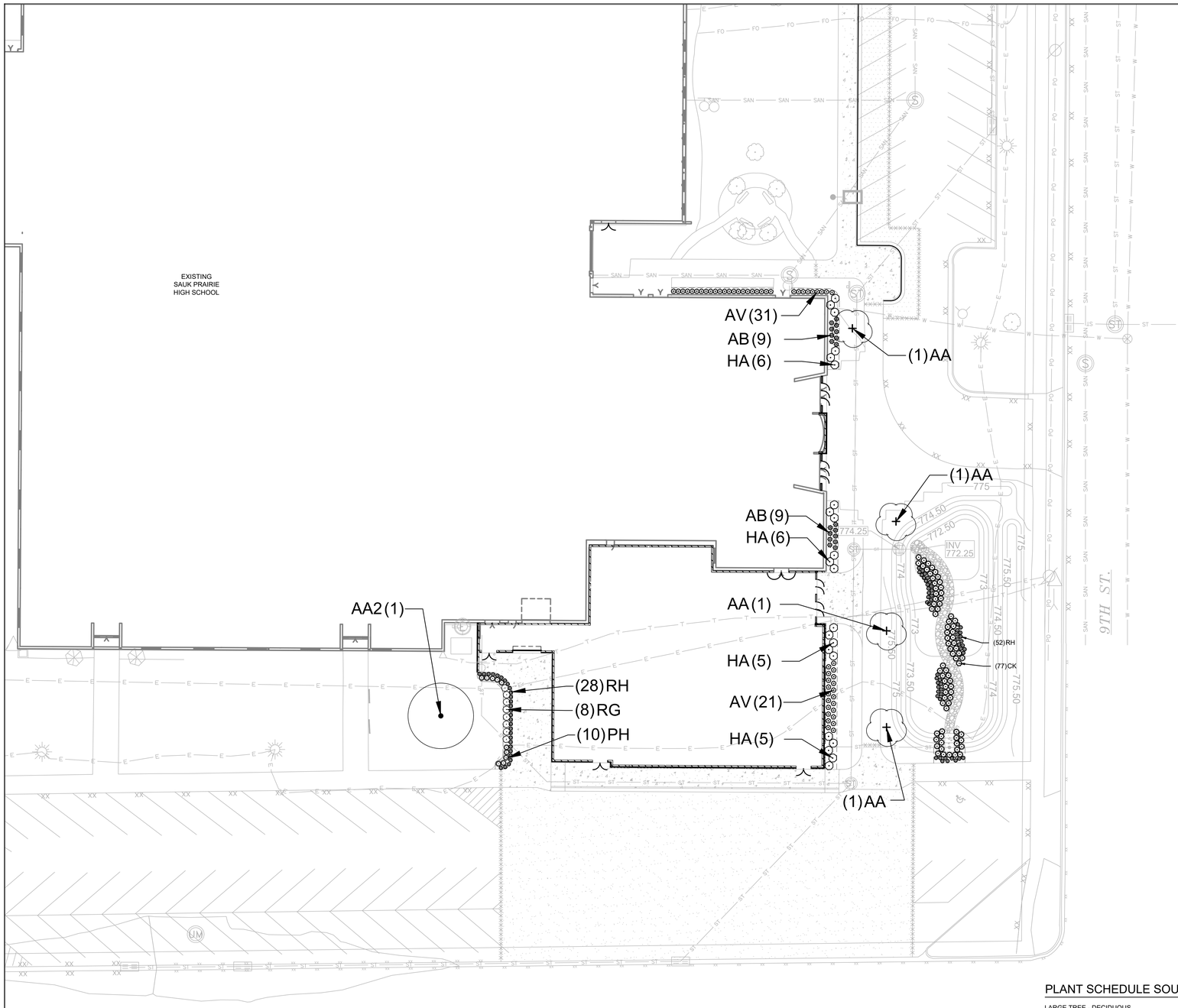

GENERAL NOTES - LANDSCAPE

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SITE LANDSCAPE - LEGEND

APPROXIMATE LIMITS OF CONSTRUCTION LIMITS — — —

ALUMINUM 'CURV-RITE' LANDSCAPE EDGING ----------

PLANT SCHEDULE SOUTH BUILDING ADDITION

LARGE TREE - DECIDUOUS	CODE	BOTANICAL / COMMON NAME	CONT	INSTALL CAL/SIZE	QTY
	AA2	ACER X FREEMANII `JEFFSRED` TM / AUTUMN BLAZE MAPLE	B & B	2.5"CAL	1
SMALL STATURE TREES - DECIDUOUS	**CODE**	**BOTANICAL / COMMON NAME**	**CONT**	**INSTALL CAL/SIZE**	**QTY**
	AA	AMELANCHIER CANADENSIS `AUTUMN BRILLIANCE` / AUTUMN BRILLIANCE SERVICEBERRY (SS)	B & B	1.5"CAL	4
DECIDUOUS SHRUBS	**CODE**	**BOTANICAL / COMMON NAME**	**CONT**	**INSTALL CAL/SIZE**	**QTY**
	HA	HYDRANGEA ARBORESCENS `ANNABELLE` / ANNABELLE HYDRANGEA	3 GAL	18"-24" HT	22
	RG	RIBES ALPINUM `GREEN MOUND` / GREEN MOUND ALPINE CURRANT	3 GAL	18"-24" HT	8
ORNAMENTAL GRASSES	**CODE**	**BOTANICAL / COMMON NAME**	**CONT**	**INSTALL CAL/SIZE**	**QTY**
	CK	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER` / FEATHER REED GRASS	1 GAL	10"-12"HT	77
	PH	PENNISETUM ALOPECUROIDES `HAMELN` / HAMELN FOUNTAIN GRASS	1 GAL	10"-12"HT	10
PERENNIALS	**CODE**	**BOTANICAL / COMMON NAME**	**CONT**	**INSTALL CAL/SIZE**	**QTY**
	AV	ASTILBE CHINENSIS `VISION IN RED` / VISION IN RED ASTILBE	1 GAL	10"-12"HT	52
	AB	ASTILBE X ARENDSII `BRIDAL VEIL` / BRIDAL VEIL ASTILBE	1 GAL	10"-12"HT	18
	RH	RUDBECKIA HIRTA / BLACK-EYED SUSAN	PLUG		80

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0' 20' 40' 60'

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SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1

SITE LANDSCAPE PLAN
SOUTH BUILDING ADDITION

SAUK PRAIRIE SCHOOL DISTRICT
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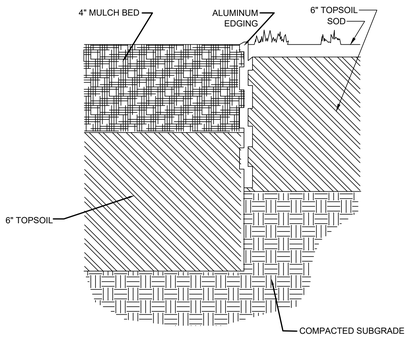
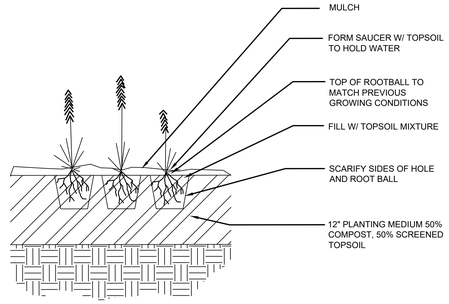


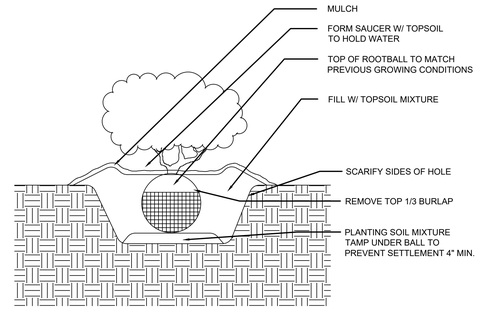
NOTES:
- SEE MANUFACTURER'S SPECIFICATIONS FOR PROPER INSTALLATION

1. LANDSCAPE EDGING



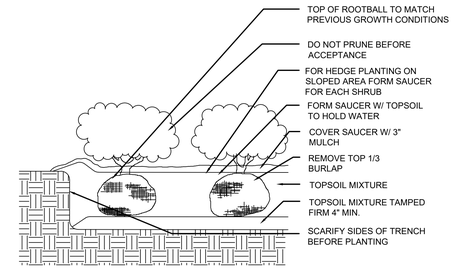
NOTE:
- PERENNIALS OF SAME SPECIES TO BE MATCHED IN GROWTH AND UNIFORMITY.
- DO NOT PRUNE BEFORE ACCEPTANCE

2. PERENNIAL PLANTING



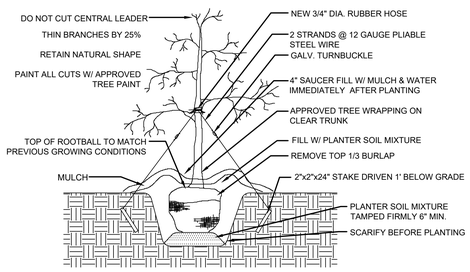
NOTE:
- SHRUBS OF SAME SPECIES TO BE MATCHED IN GROWTH AND UNIFORMITY.
- DO NOT PRUNE BEFORE ACCEPTANCE

3. SHRUB PLANTING



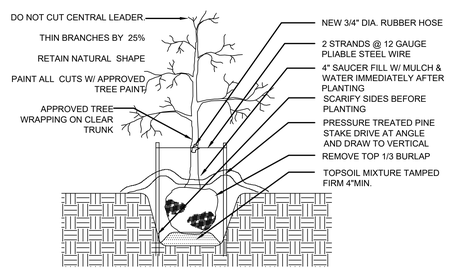
* SHRUBS OF SAME SPECIES TO BE MATCHED IN GROWTH AND UNIFORMITY

4. SHRUB PLANTINGS



NOTE:
- TREES OF SAME SPECIES TO BE MATCHED IN GROWTH AND UNIFORMITY
- PLANTING HOLE WIDTH SHALL BE THREE TIMES THE SIZE OF ROOTBALL.

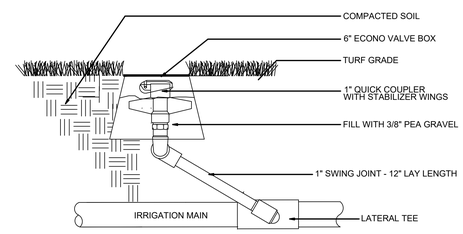
5. TREES UNDER 2" CALIPER



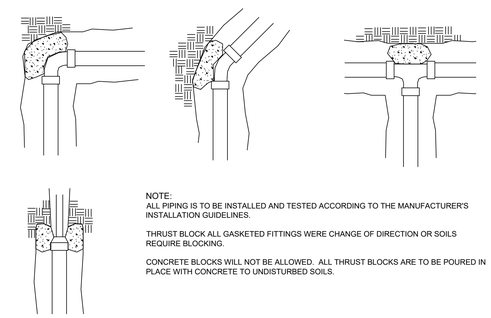
TREES OVER 2" CALIPER

- PLANTING HOLE WIDTH SHALL BE THREE TIMES THE SIZE OF ROOTBALL
- ONLY PRUNE BROKEN OR INJURED BRANCHES
- TREES OR SAME SPECIES TO BE MATCHED IN GROWTH AND UNIFORMITY

6. TREES OVER 2" CALIPER



7. QUICK COUPLER

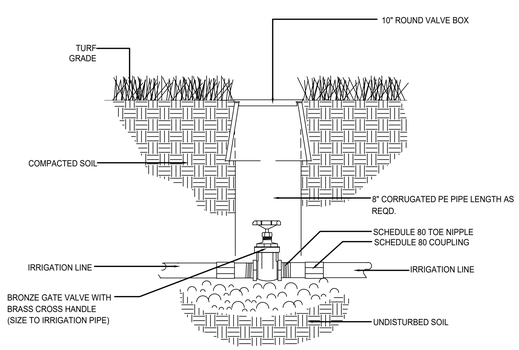


NOTE:
ALL PIPING IS TO BE INSTALLED AND TESTED ACCORDING TO THE MANUFACTURER'S INSTALLATION GUIDELINES.

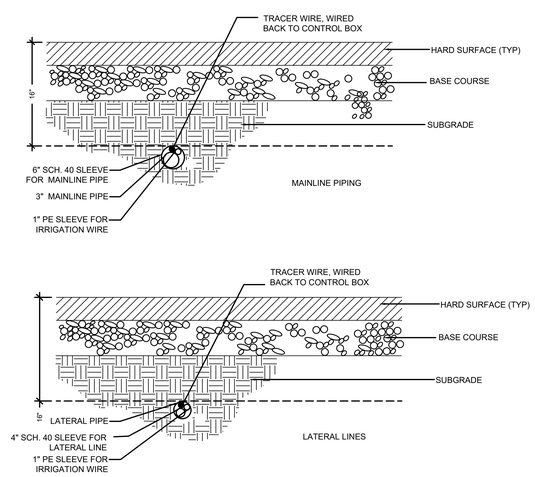
THRUST BLOCK ALL GASKETED FITTINGS WERE CHANGE OF DIRECTION OR SOILS REQUIRE BLOCKING.

CONCRETE BLOCKS WILL NOT BE ALLOWED. ALL THRUST BLOCKS ARE TO BE POURED IN PLACE WITH CONCRETE TO UNDISTURBED SOILS.

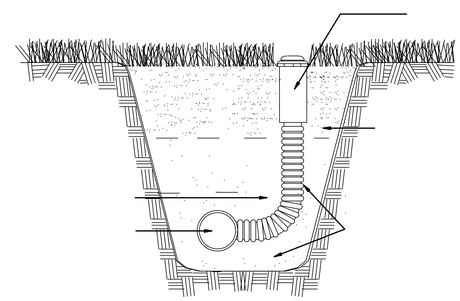
8. IRRIGATION THRUST BLOCKING



9. ISOLATION VALVE



10. TYPICAL SLEEVING SECTIONS



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REV	DATE	ISSUED FOR
	07/06/20	VILLAGE REVIEW

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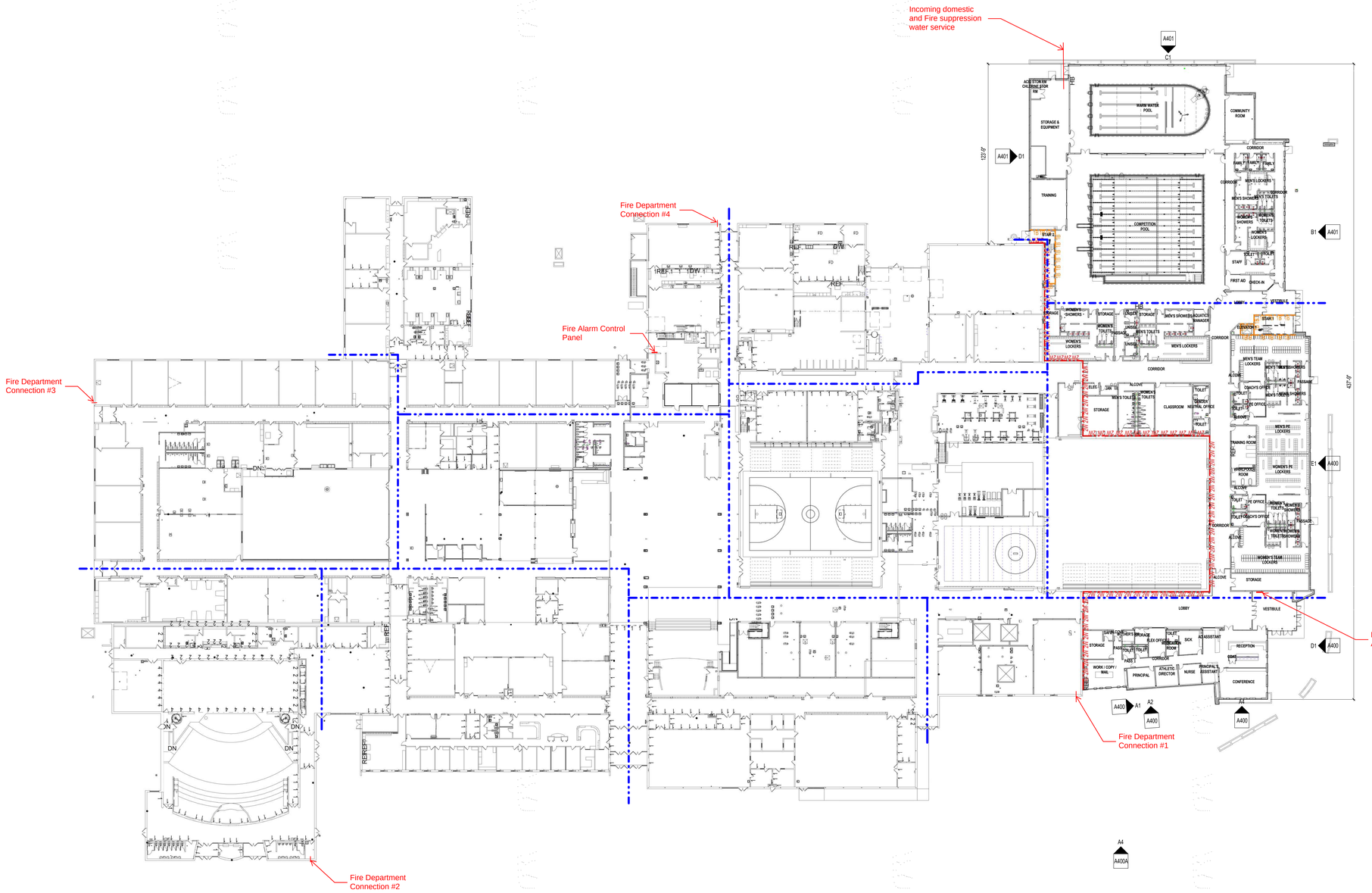
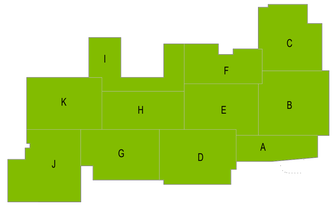
SAUK PRAIRIE HIGH SCHOOL
SITE REDEVELOPMENT PROJECT - PHASE 1

SITE CONSTRUCTION DETAILS
LANDSCAPE DETAILS

SAUK PRAIRIE SCHOOL DISTRICT
440 13TH STREET
PRAIRIE DU SAC, WI 53578

C804





KEY PLAN

NORTH

OVERALL FIRST FLOOR PLAN
1/32" = 1'-0"

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Sauk Prairie School District
High School Additions & Renovations
105 9th St, Prairie Du Sac, WI 53578

REVISIONS:

OVERALL FIRST FLOOR PLAN

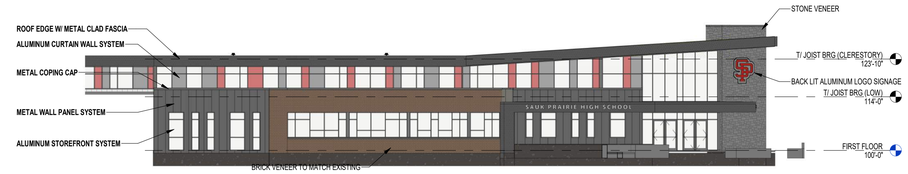
PLAN COMMISSION

DATE: 07-06-20
JOB NO: 190112-03
SHEET NO: A200

VIEW OF EXISTING BUILDING - MAIN ENTRANCE

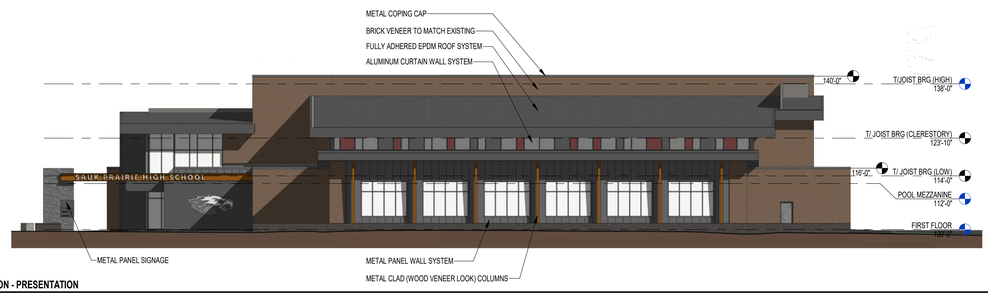
VIEW OF EXISTING BUILDING - AREA D

VIEW OF EXISTING BUILDING - AREA A

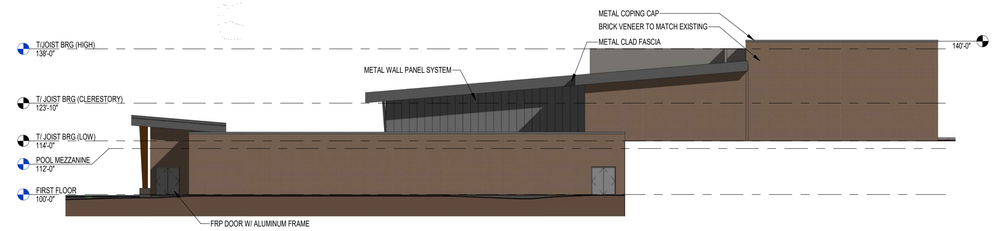


A4 **EAST ELEVATION - PRESENTATION**
1/16" = 1'-0"

B2 **NORTH ELEVATION - PRESENTATION**
1/16" = 1'-0"



C1 **WEST ELEVATION - PRESENTATION**
1/16" = 1'-0"



C4 **SOUTH ELEVATION - PRESENTATION**
1/16" = 1'-0"

VIEW OF MAIN ENTRANCE

VIEW OF POOL ENTRANCE

209 south water street suite 200 milwaukee, wisconsin 53204 t 414.339.3060
2701 north ronald drive suite 309 madison, wisconsin 53713 t 608.230.0000
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EXTERIOR ELEVATIONS & RENDERINGS

PLAN COMMISSION

DATE: 07-06-20
JOB NO.: 190112-03
SHEET NO.: A400A

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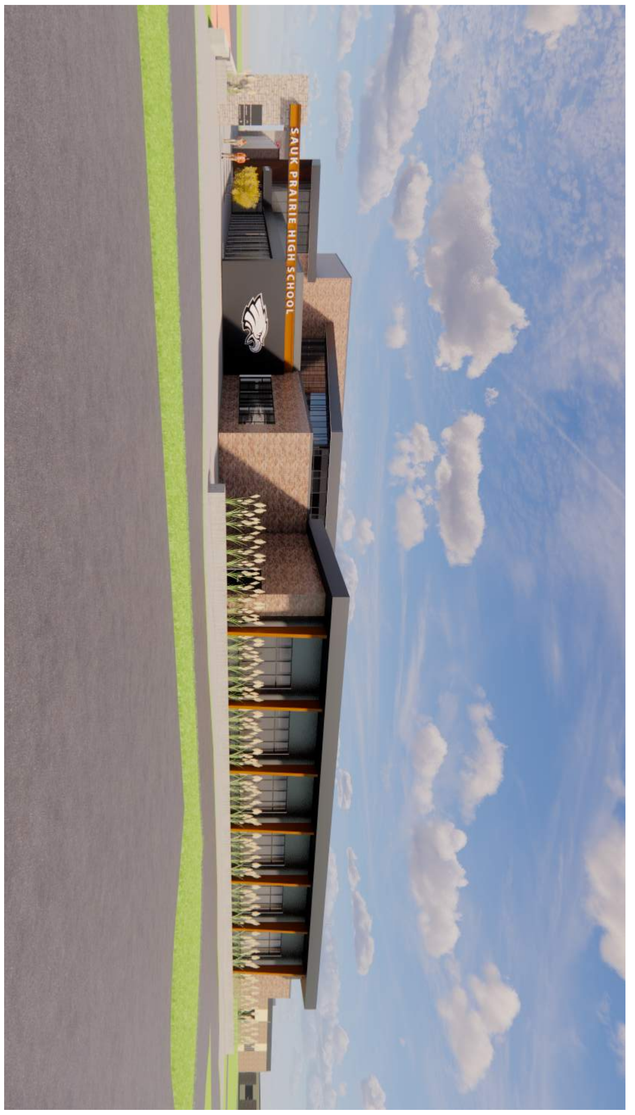
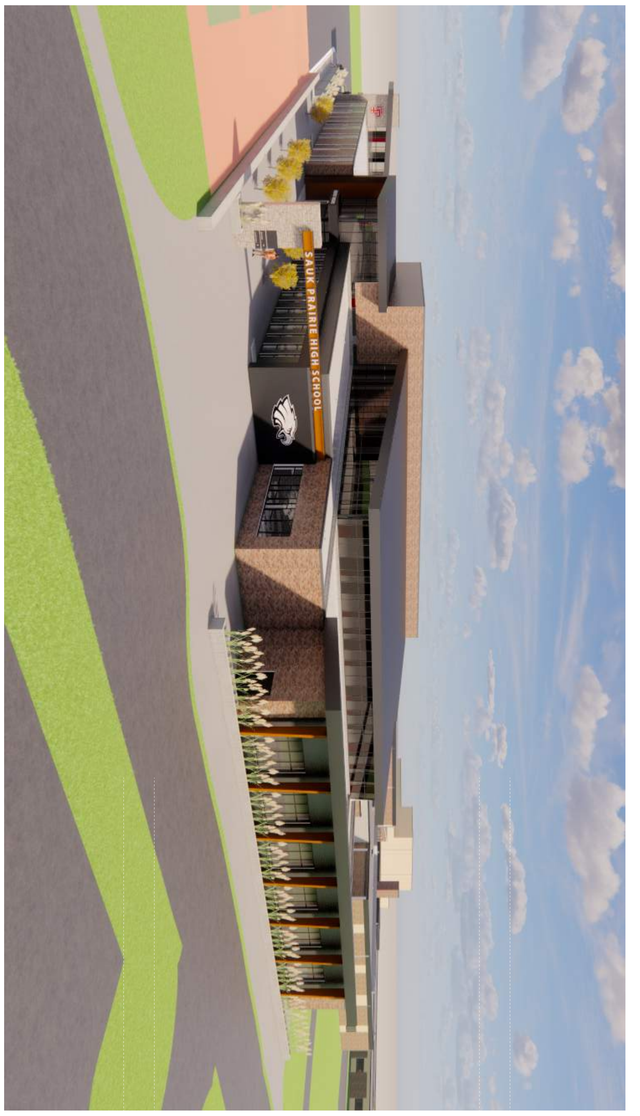


VIEW OF POOL ADDITION FROM NORTHWEST

AERIAL VIEW OF NORTH ADDITION FROM NORTHWEST

VIEW OF POOL ADDITION FROM NORTHWEST



VIEW OF POOL ADDITION FROM NORTHWEST

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PLAN COMMISSION

DATE: 07-06-20

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SHEET NO: A400B

EXTERIOR PERSPECTIVES

REVISIONS:

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High School Additions & Renovations

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VIEW OF POOL ADDITION FROM NORTH

AERIAL VIEW OF NORTH ADDITION FROM NORTHEAST

VIEW OF MAIN OFFICE ADDITION FROM EAST

VIEW OF NORTH ADDITION FROM NORTHEAST

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EXTERIOR PERSPECTIVES

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DATE: 07-06-20
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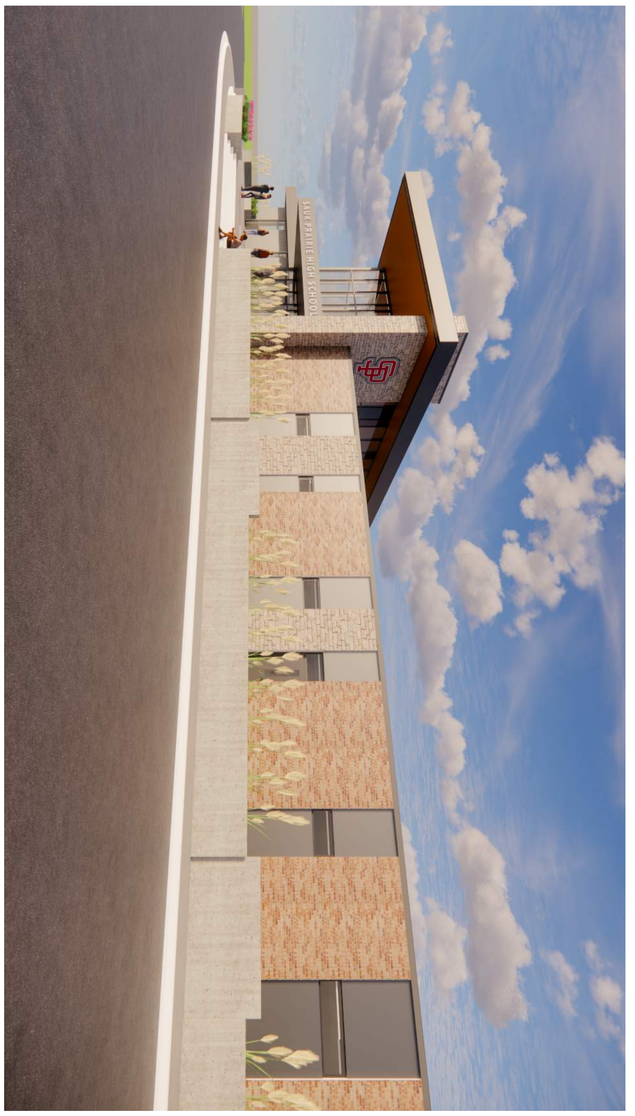
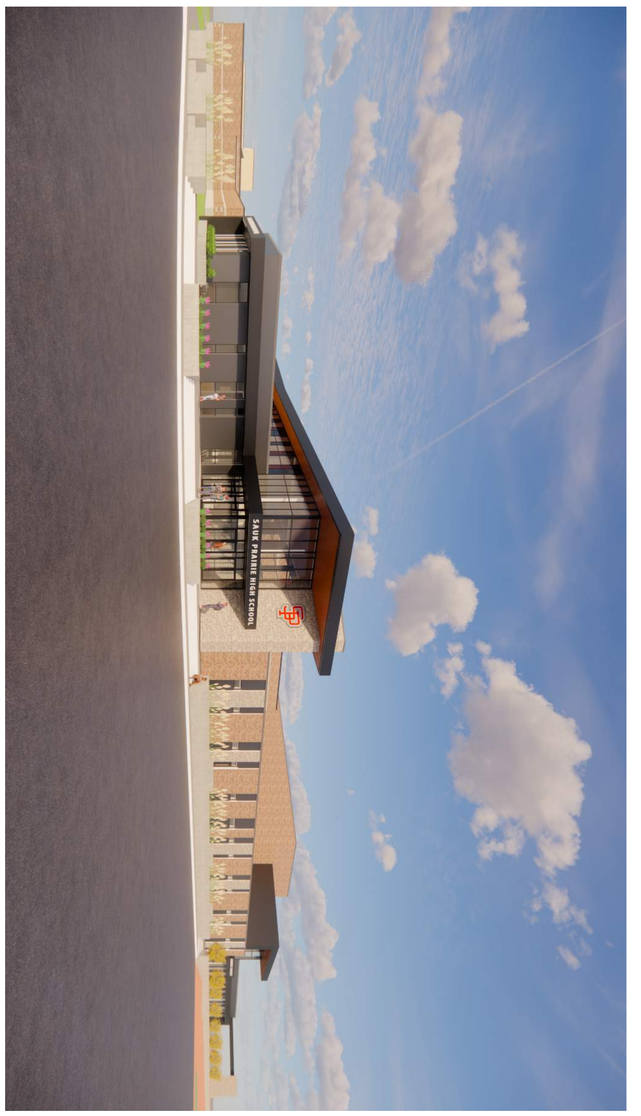
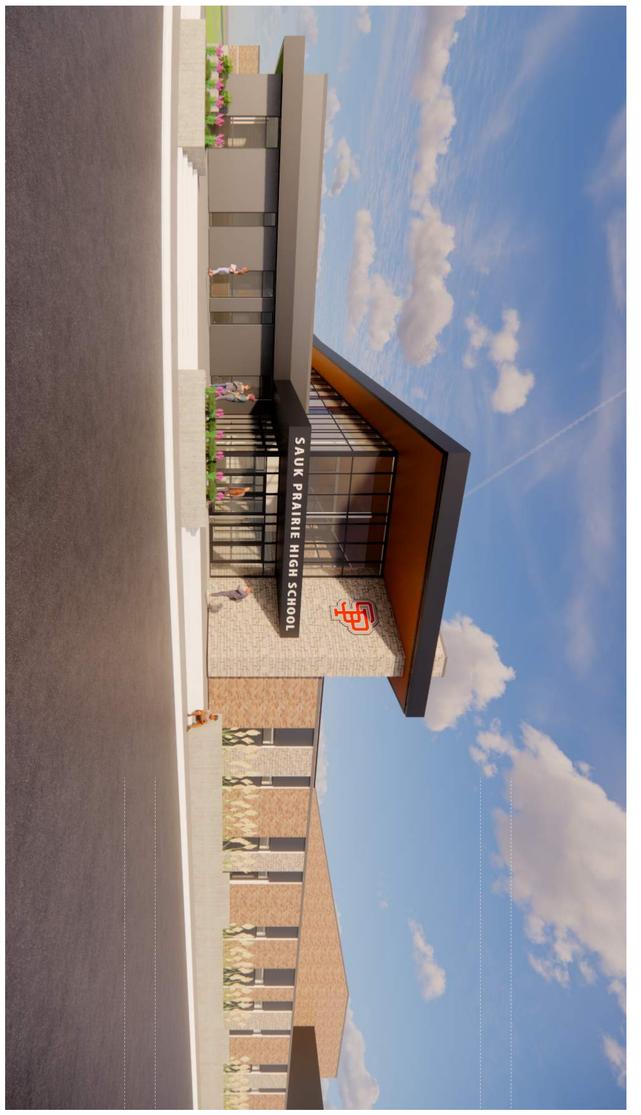


VIEW OF MAIN OFFICE ADDITION FROM NORTHWEST



VIEW OF NORTH ADDITION FROM NORTHEAST

AERIAL VIEW OF RIVER ARTS CENTER ADDITION FROM EAST



VIEW OF MAIN OFFICE ADDITION FROM NORTHEAST

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A400D

PLAN COMMISSION

DATE: 07-06-20

JOB NO: 190112-203

SHEET NO.

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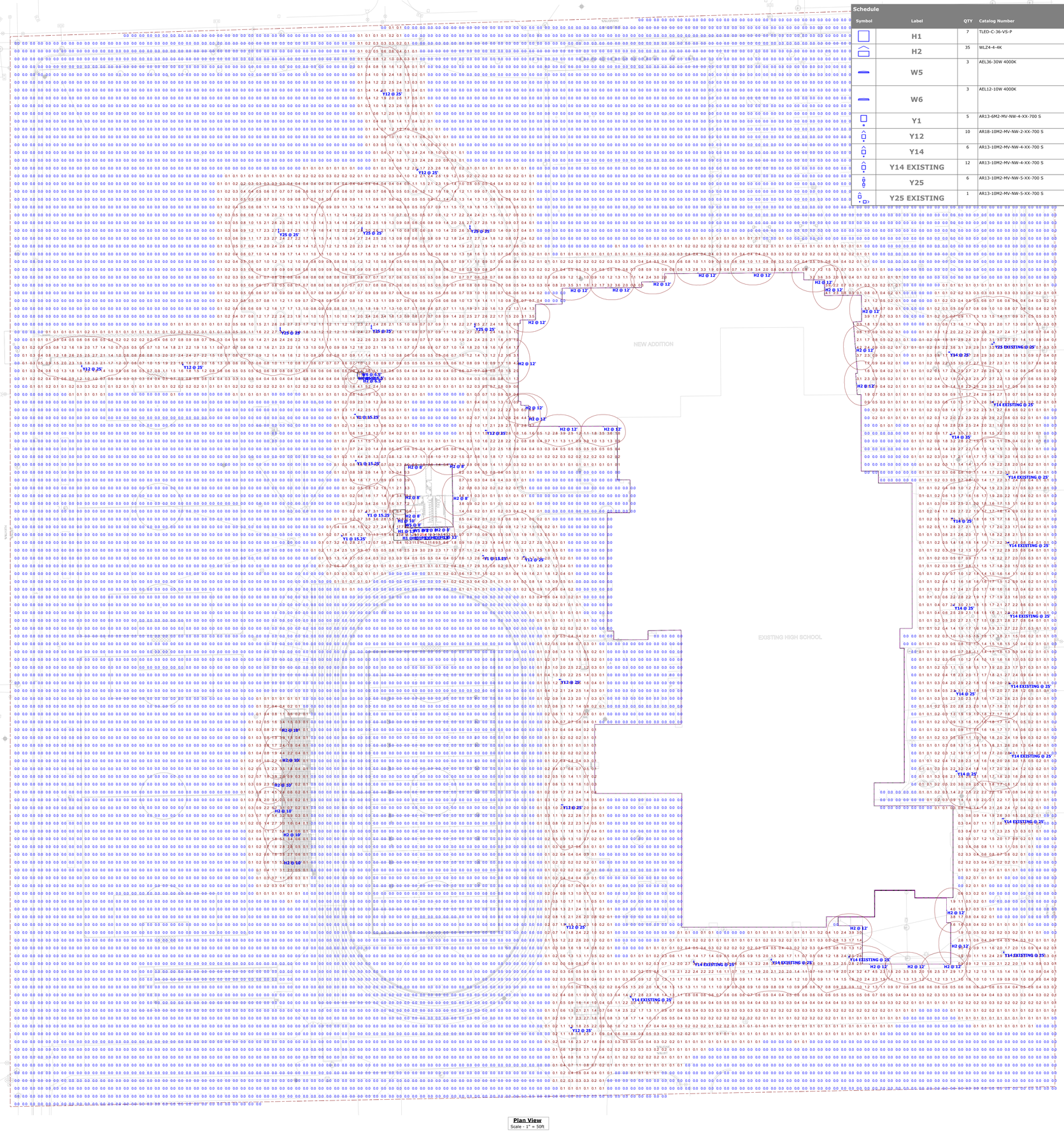


Plan View
Scale - 1" = 50ft

Schedule

Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	LLF	Wattage
	H1	7	TLED-C-36-VS-P	12"SQ. X 2-1/2"H. LED PERFORMANCE CANOPY LEDS WITH BUBBLE OPTICS		1	0.9	40.85
	H2	35	WLZ4-4-4K	Formed black metal housing	12 white LEDs with optics attached to each	1	0.9	41.0529
	W5	3	AEL36-30W 4000K	Catalog Number: AEL36-30W 4000K Wall mounted, extruded aluminum housing, formed white enamel aluminum reflector/LED tray, clear lightly frosted plastic enclosure. 108 white LEDs, three Luminaire LED MP-LED-M00 Rev.1.0 LED boards with 36 LEDs each. One Universal Lighting Technologies Everline D10CC30UNVTW-C LED driver programmed to 940mA 120.0Vac, 60.00Hz, 0.2497A, 29.66W, 0.990PF, 7.3%THD(i)		1	0.9	29.7
	W6	3	AEL12-10W 4000K	Luminaire LED Architectural Egress Luminaire. Cat No:AEL12-10W 4000K Painted extruded aluminum body with endcaps and a horizontal finely etched planar glass diffuser 2.5"x10.4". Two piece aluminum asymmetric reflector with single 1 x 28 array of LEDs spaced at 0.38". LED strip screws to black extruded heat sink. Luminaire extents ~ 5-1/2 x 21 x 3-1/2". One integral Thomas Research Products LED12W-16-C0700 100-277V 50/60Hz driver. Tested wall mount position at 120V.		28	0.9	10.8
	Y1	5	AR13-6M2-MV-NW-4-XX-700 S	Leotek Electronics - Pole arm mount roadway luminaire. This IES file was scaled from AR13-6M2-MV-CW-4-XX-700.		1	0.9	54
	Y12	10	AR18-10M2-MV-NW-2-XX-700 S	Leotek Electronics - Pole arm mount roadway luminaire. This IES file was scaled from AR13-6M2-MV-NW-2-XX-700.		1	0.9	87
	Y14	6	AR13-10M2-MV-NW-4-XX-700 S	Leotek Electronics - Pole arm mount roadway luminaire. This IES file was scaled from AR13-6M2-MV-CW-4-XX-700.		1	0.9	87
	Y14 EXISTING	12	AR13-10M2-MV-NW-4-XX-700 S	Leotek Electronics - Pole arm mount roadway luminaire. This IES file was scaled from AR13-6M2-MV-CW-4-XX-700.		1	0.9	87
	Y25	6	AR13-10M2-MV-NW-5-XX-700 S	Leotek Electronics - Pole arm mount roadway luminaire. This IES file was scaled from AR13-6M2-MV-CW-5-XX-700.		1	0.9	174
	Y25 EXISTING	1	AR13-10M2-MV-NW-5-XX-700 S	Leotek Electronics - Pole arm mount roadway luminaire. This IES file was scaled from AR13-6M2-MV-CW-5-XX-700.		1	0.9	174

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	0.3 fc	25.6 fc	0.0 fc	N/A	N/A

MUERMANN ENGINEERING
A DIVISION OF MGA

SAUK PRAIRIE HIGH SCHOOL
SITE LIGHTING PHOTOMETRIC

Designer	BEH
Date	6/10/2020
Scale	1"=50'-0"
Drawing No.	E1.0
Summary	

TLED-C-LG

Surface & Recessed Mount LED Low Glare Lighting

Model: _____ Date: _____

Accessories: _____

Job Name: _____ Type: _____

AVAILABLE WHILE SUPPLIES LAST

DESCRIPTION

This low glare canopy is TRACE*LITE's 'softer, gentler' distribution within the TLED series of solid state lighting (SSL). The specially designed polymethyl methacrylate (PMMA) UV stabilized lens interacts with the high performance light engines to optimize visual comfort without sacrificing lighting efficacy. This unique configuration eliminates eye strain or distraction. Attention to tasks at hand at schools, libraries, pharmacy drive throughs and truck stop sites are enhanced by optimizing the quality of light within the environment.

This low glare version of TRACE-LITE's versatile, high performance SSL canopy line is available in a low profile housing for surface mount installations. The TLED-C canopy is powered by industry leading LED light engines featuring superior thermal management. This synergistic design far exceeds the performance capabilities of any retrofit and exemplifies true, integrated SSL design; simple elegance, exceptional performance.

SPECIFICATIONS

Construction:

Precision die formed aluminum housing features clean architectural lines with ample, integral mounting space for future accessories. The TLED series canopy family's most important construction feature is its integral thermal management. The housing is fabricated using 1/8" aluminum plate, which not only provides strength and durability but also acts as a substantial heat sink and allows for optimum performance and durability of the LED light engine without sacrificing design aesthetics or increasing the outside dimensions of the housing. LEDLITE/*logic* heat sinking technology moves heat away from the LEDs by taking advantage of thermal convection dynamic properties and maximizing system performance that delivers up to a 190,000 hour life with 70% lumen maintenance at 77°F (25°C). The TLED series canopy family is ETL Listed for Wet Locations, and incorporates a UV resistant, long lasting, polyester based powder coated white finish.

Optics:

The TLED series canopy family of luminaires delivers exceptional light quality and efficiency. The TLED low glare unit's optic design not only provides excellent Type V distribution, it leads the industry in canopy glare control. The UV stabilized PMMA lens is highly durable and extremely resistant to environmental discoloration over time typically caused in other fixtures by heat, aging, dust and air born particulates.

Electrical:

The TLED-C low glare canopy's LED light engines draws 41 total watts and provides approximately 4208 initial delivered lumens. The LED light engine is powered by 0-10V dimmable, constant current control drivers and provides up to a 190,000 hour rated life with 70% lumen maintenance at 77°F (25°C), at 4700K CCT, and a CRI of ≥70. All drivers are Class 2 power supplies with input voltage range of 120VAC to 277AVC, providing a Class A EMI rating and a high power factor of ≥0.90. The TLED series canopies are suitable for operation in -40°F to 104°F (-40°C to 40°C) ambient conditions.

Thermal Management:

LEDLITE/*logic* heat sinking technology moves heat away from the LEDs by taking advantage of thermal convection dynamic properties and maximizing system performance that delivers up to a 190,000 hour life with 70% lumen maintenance.

Environmentally Friendly Design:

TLED series canopy luminaires consume very little energy and provide long life in comparison to traditional lamp technologies. The TLED low glare canopy series is RoHS (Restriction of Hazardous Substances) compliant and provides a significant reduction in KW load and carbon emissions.

Installation:

The TLED low glare series canopies can be installed and wired by a single person. The base plate easily attaches to a 3" or 4" J-box, and the fixture housing is attached to the base plate by four (4) captive fasteners. The TLED-C can be surface mounted to a recessed J-box, surface mounted with conduit, or pendant mounted using a standard ½" downrod & hardware (supplied by others).

Transient Protection System (Option: TP):

The LEDLITE/*logic* optional transient protection device is designed to be used in conjunction with our LED drivers. The "-TP" option utilizes a 3-leaded device that protects Line-Ground, Line-Neutral, and Neutral-Ground in accordance with IEEE/ANSI C62.41.2 guidelines. The surge current rating of the "-TP" option is 10,000 amps.

Testing & Compliance:

The reliability and performance of the TLED series canopy luminaires are evaluated in accordance with the parameters outlined and reported by LM-79 and LM-80 documents. Photometric data is tested to IESNA LM-79-08 standard by an independent testing laboratory. Lumen maintenance, or L70, a measure of long term reliability, is determined for the light source, which consists of the LED and PSB sub-assembly as installed in the luminaire, using LM-80 in-situ thermal and reliability data as provided by the LED manufacturer in accordance with DOE/EPA standards. DesignLights Consortium® (DLC) qualified luminaire (check QPL for specific models).

Specs at a Glance	
	36 LED
Wattage (Nominal)	41W
Ingress Protection	ETL Listed for Wet Locations
Lumens (lm)	4208
Efficacy (LPW)	103
CCT	4700K
Input Voltage	120~277 Voltage Sensing
Optics	Performance Optic - Type V Very Short
CRI	≥71
Warranty	5 Years
Ambient Temp	-40°F to 104°F (-40°C to 40°C)

Listing:

The TLED-C low glare canopy series is ETL certified under UL1598 specifications and listed for wet locations.

Warranty:

Any component that fails due to manufacturer's defect is guaranteed for 5 years. The warranty does not cover physical damage, abuse or acts of God. Manufacturer reserves the right to charge for such repairs if deemed necessary.

WLZ SERIES

Zero Uplight LED Wallpack

DESCRIPTION

The WLZ Series features an architecturally relevant low-profile LED design in lumen packages ranging from 1500 lumens to over 12,000 lumens. Its high-efficiency light engine is designed for optimal light control and distribution with zero uplight. This family of product is offered in several size housings to complement any building exterior and accommodates mounting heights up to 35'. Integral emergency battery backup available for path of egress with Cold Location operation down to -20°C.

SPECIFICATIONS

Construction

- Sleek die-cast aluminum housing with stainless steel hardware and powder coated black, bronze, silver or white finish
- UV-stabilized polycarbonate optical lens
- Integral heat sink for maximized heat dissipation
- Back box houses drivers away from LEDs and includes three ¾" hubs (WLZ1 and WLZ2 - two ¾" hubs)

Optics/LEDs

- Zero uplight design to minimize light pollution
- 15 to 100 Watt models replace up to 400 Watt HID for up to 70% energy savings
- Efficacies up to 123 LPW at 5000K to maximize utility rebates
- Type III and Type IV distributions for optimal light distribution (WLZ1 - Type III only)
- Available in 3000K, 3500K, 4000K and 5000K CCT
- L70 of 50,000 hours at 40°C
- CRI of ≥70

Electrical

- Class 2 power supply, 120-277VAC, 50/60Hz
- 347/480VAC Dedicated driver option for WLZ4, WLZ7 and WLZ10
- 0-10V Dimming driver (120-277VAC only)
- Power supply rated Class A EMI rating

Installation

- Housing hinges to back box and is secured with set screws
- Back box is complete with three ¾" hubs and internal bubble level for easy installation (WLZ1 and WLZ2 - two ¾" hubs)
- Mounts to a standard 3-1/2" or 4" square electrical J-box
- Suitable for downlight installation only

Options

- **Battery Backup**
  - Integral battery backup (BB) provides over 700 lumens and 90 minutes of runtime for path of egress. Rated for ambient temperatures of 0°C to 40°C (32°F to 104°F). Not available on WLZ1
  - Integral Battery Backup with Internal Heater (BB-IH) provides over 700 lumens and 90 minutes of runtime for path of egress in Cold Locations down to -20°C. Not available on WLZ1 or WLZ2.
- Factory installed dual driver options for WLZ4 and WLZ10 (WLZ7 is standard with two drivers)
- Factory installed 120/277VAC button type photocontrol option (PC)
- Factory installed 10kVA surge protection options (SP or SPH)

Accessories (Field Installed)

- 120/277VAC Button type universal photocontrol options accessory (PCU)
- Dimming occupancy sensor programmable, Wattstopper FSP221 available in multiple finishes (TL-SCES-L2)
- Remote control for occupancy sensor. Optional (TL-FSIR100)

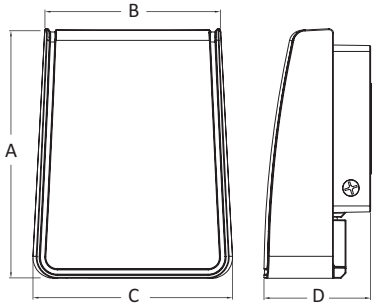
Testing & Compliance

- cULus Listed for Wet Locations
- DesignLights Consortium® (DLC) Qualified (verify QPL for specific models)
- International Dark Sky friendly approved product. (IDA) 3000K only
- Operating temperatures: -40°C to 40°C (-40°F to 104°F)

*Specs At A Glance**					
Model	WLZ1	WLZ2	WLZ4	WLZ7	WLZ10
Wattage (nominal)	15W	25W	40W	70W	100W
Lumens (lm)	1745	3198	5021	8729	12,393
Efficacy (LPW)	115	118	123	120	116
Equivalency (HID)	50W	100W	150W	250W	400W
Distribution	Type III, IV (WLZ1 Type III only)				
CCT	3000K, 3500K, 4000K, 5000K				
CRI	≥70				
Input Voltage	120-277VAC, 50/60Hz, 347/480V option				
Operating Temp	-40°C to 40°C (-40°F to 104°F)				
Certifications	UL Listed for Wet Locations, DLC, IDA				
Warranty	5 Years				
Weight	2.6 lbs	3.3 lbs	6.0 lbs	9.9 lbs	12.1 lbs

* Nominal Wattage, tested at 5000K CCT, Type III distribution. Values at 120/277VAC. See performance table for more detailed lumen information.

Note: Environment and application will affect actual performance. Typical values and 25°C (77°F) used for testing. Specifications subject to change without notice.



Model	A (Inches)	B (Inches)	C (Inches)	D (Inches)
WLZ1	6.7	5.0	5.6	3.2
WLZ2	8.0	5.7	6.0	3.2
WLZ4	10.2	6.8	7.8	5.0
WLZ7	11.6	8.3	9.4	5.0
WLZ10	11.6	10.3	11.5	5.0

Model: _____ Date: _____

Accessories: _____

Job Name: _____ Type: _____

BARRON TRACE LITE commercial & industrial lighting

Ordering Information (Example: WLZ2-3-4K-BR)

Series/Configuration	Distribution	Input Voltage	CCT	Finish	Options
WLZ1 = 15W, Extra-Small	3 = Type III	BLANK = 120-277VAC	3K = 3000K	BL = Black	BB[5] = Battery backup
WLZ2 = 25W, Small	4[2] = Type IV	HVS[3] = 347/480VAC	35K[4] = 3500K	BR = Bronze	BB-IH[6] = Cold Location Battery backup (operation down to -20°C)
WLZ4 = 40W, Medium			4K = 4000K	SV = Silver	DD[7] = Dual driver
WLZ7[1] = 70W, Large			5K = 5000K	WH = White	PC = 120/277VAC Button photocontrol
WLZ10 = 100W, Extra-Large					SP = 120/277VAC Surge protection
					SPH = 347/480VAC Surge protection

Notes

[1] Standard with two drivers

[2] Not available for WLZ1 configuration

[3] WLZ4, WLZ7 and WLZ10 only, compatible with SPH option only

[4] Consult factory for lead times

[5] WLZ2, WLZ4, WLZ7 and WLZ10 only. 120/277VAC Only. Not compatible with DD and SPH options

[6] WLZ4, WLZ7 and WLZ10 only. 120/277VAC Only. Not compatible with DD and SPH options

[7] Dual driver option available for WLZ4 and WLZ10 only. Not compatible with photocontrol option, consult factory

[8] Compatible with WLZ4, WLZ7 and WLZ10 only. Contact factory for compatibility with other options

[9] Dimming occupancy sensor, programmable, Wattstopper FSP221, L2 Lens

[10] Order as a separate line item. Shipped in separate box for final installation in the field

Accessories[10] (Field Installed)

PCU = 120/277VAC Button photocontrol accessory

TL-FSIR-100 = Remote control for TL-SCES sensor (optional)

TL-SCES-L2[8,9] = Motion sensor, white finish

TL-SCES-L2-BL[8,9] = Motion sensor, black finish

TL-SCES-L2-BR[8,9] = Motion sensor, bronze finish

TL-SCES-L2-GR[8,9] = Motion sensor, gray finish

Performance Data

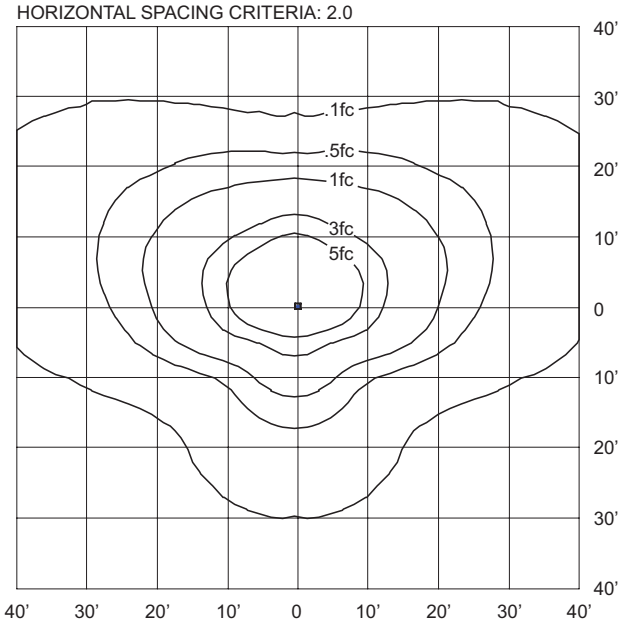
Model	Wattage (W)	CCT	Distribution	Lumen Output (lm)	Efficacy (LPW)
WLZ1-3-3K-XX	15	3000K	Type III	1531	101
WLZ1-3-4K-XX	15	4000K	Type III	1534	101
WLZ1-3-5K-XX	15	5000K	Type III	1745	115
WLZ2-3-3K-XX	25	3000K	Type III	2795	103
WLZ2-3-4K-XX	25	4000K	Type III	2997	111
WLZ2-3-5K-XX	25	5000K	Type III	3198	118
WLZ2-4-3K-XX	25	3000K	Type IV	2609	98
WLZ2-4-4K-XX	25	4000K	Type IV	2797	105
WLZ2-4-5K-XX	25	5000K	Type IV	2985	112
WLZ4-3-3K-XX	40	3000K	Type III	4389	107
WLZ4-3-4K-XX	40	4000K	Type III	4705	115
WLZ4-3-5K-XX	40	5000K	Type III	5021	123
WLZ4-4-3K-XX	40	3000K	Type IV	4021	98
WLZ4-4-4K-XX	40	4000K	Type IV	4310	105
WLZ4-4-5K-XX	40	5000K	Type IV	4599	112
WLZ7-3-3K-XX	70	3000K	Type III	7657	105
WLZ7-3-4K-XX	70	4000K	Type III	8193	113
WLZ7-3-5K-XX	70	5000K	Type III	8729	120
WLZ7-4-3K-XX	70	3000K	Type IV	6837	94
WLZ7-4-4K-XX	70	4000K	Type IV	7316	101
WLZ7-4-5K-XX	70	5000K	Type IV	7794	107
WLZ10-3-3K-XX	100	3000K	Type III	10,871	102
WLZ10-3-4K-XX	100	4000K	Type III	11,632	109
WLZ10-3-5K-XX	100	5000K	Type III	12,393	116
WLZ10-4-3K-XX	100	3000K	Type IV	9706	91
WLZ10-4-4K-XX	100	4000K	Type IV	10,385	98
WLZ10-4-5K-XX	100	5000K	Type IV	11,065	104

* Nominal Wattage. Values at 120/277VAC

Sample Photometrics

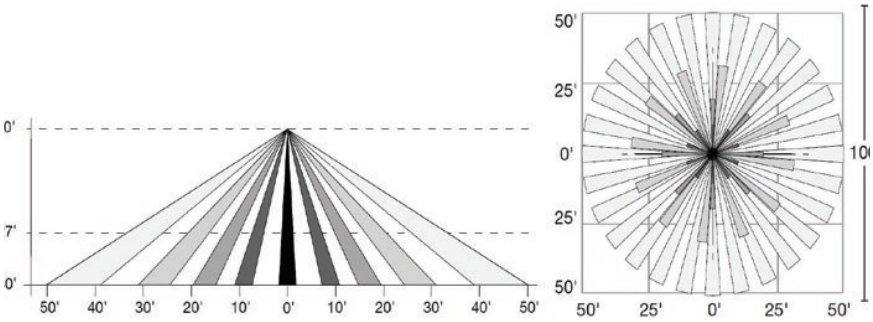
WLZ4-3-5K

IES: TYPE III VERY SHORT
MOUNTING HEIGHT: **10'**
TILT: ZERO
HORIZONTAL SPACING CRITERIA: 2.0



Sensor Details (Accessory: TL-SCES-L2)

Side and Top Sensor Coverage Pattern:
With FSP-L7 lens (included) 360° lens



Settings for TL-SCES-L2

	Settings	Default
High Mode:	0-10V	10V
Low Mode:	Off, 0-9.8V	1V
Time Delay:	30 seconds; 5-30 minutes	5 Minutes
Cut Off Delay:	None, 1-60 Minutes, 1-5 hours	1 Hour
Sensitivity:	None, Low, Medium, Max	Max
Setpoint:	None, 1-250fc, Auto	Disabled
Ramp Up Time:	None, 1-60 Seconds	Disabled
Fade Down Time:	None, 1-60 Seconds	Disabled

NOTE:

To change settings in the field, please order TL-FSIR-100 controller.

ARCHITECTURAL EGRESS Vandal Resistant

AEL Full Cut-Off LED

Fixture Type W5	Date
Job Name	Approved By
Catalog Number	

SPECIFICATIONS

Description The Architectural Egress Luminaire combines a unique, patented design shaped with high performance, full cut-off optics to achieve completely unobtrusive illumination of a space or path of egress. When mounted over a doorway, the fixture is perceived as an element of the building structure and, additionally, provides water protection in the form of a drip cap over the doorway. Multiple lengths are available to match a given door opening and our unique quick mount system facilitates installation and maintenance.

Housing Marine grade heat treated extruded aluminum.
Chemically primed and finished with robotically applied polyester powder coat.

Wall Mount Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat. Designed to provide quick mounting to housing and secured with (2) captive stainless steel TORX® head screws.

Lens Frame Marine grade heat treated extruded aluminum, clear anodized. Secured to fixture via integral concealed hinge and (3) captive stainless steel TORX® head screws.

Lens UV stabilized diffused extruded polycarbonate.

End Caps Die-cast marine grade aluminum continuously welded to housing. All welds ground smooth.

Reflector Electrostatically brightened anodized aluminum PVD coated and absolutely color-free of iridescence. Shaped to provide full cutoff, LED point dispersion and maximum efficiency.

Drivers Constant current drivers at 700mA.

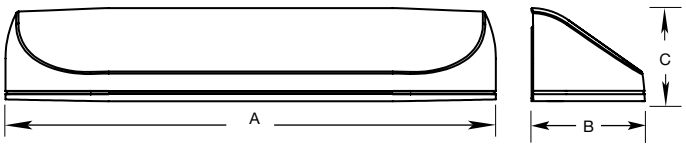
LED Samsung LM561B+ Series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L_{70} projected life of 130,000 hours at 50ºC. Tested in accordance with LM-80. Ten year warranty on LED boards against operational defects.

Gaskets Closed cell self-adhesive neoprene to provide watertight seal between fixture and wall and between fixture and lens frame.

Lifetime Warranty Luminaire LED Incorporated will repair or replace any fixture damaged due to vandalism for the lifetime of the installation.

DIMENSIONAL DATA

	A	B	C
AEL 12	20.79	5.40	3.60
AEL 24	32.04	5.40	3.60
AEL 36	43.29	5.40	3.60
AEL 48	54.75	5.40	3.60
AEL 72	78.75	5.40	3.60



Luminaire Led
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Rev: 03/19+

ARCHITECTURAL EGRESS

Vandal Resistant

Fixture Type W5

AEL Full Cut-0ff LED

ORDERING INFORMATION

SERIES	LED	CCT	VOLTS	DRIVER	LENS	COLOR	OPTIONS		TX/SD
									TX/SD
AEL 12	10W	2700K	120-277	CC	DP	BKH	DIM	EMB10ST	
AEL 24	10W	3000K	347	DIM		BZH	A/B	EMB310	
	20W	3500K		PRD		SVH	2B	EMB310ST	
AEL 36	15W	4000K				WOP	PC	EMB20R	
	30W	5000K				CUST	GLR	EMB125R	
AEL 48	20W						OCC	EMB250R	
	35W						OCC50	EMBDA	
AEL 72	30W							ST/SC	
	55W								
	PRD: Specify Watts or Lumens Above								

CC = Constant Current (Standard)
DIM = 0-10V Dimming, 10% at lowest level
PRD = Programmable driver. Specify Watts or Lumens in Ordering Information under “LED” column. N/A with AEL12.

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OPTIONS

LENS	DP = Diffused Polycarbonate.
COLORS	BKH = Black (Hammertone) BZH = Bronze (Hammertone) SVH = Silver (Hammertone) WOP = White (Textured White) CUST = Custom Color (Consult Factory)
PRD	Programmable driver. When ordering, must specify Watts or Lumens. Consult factory for availability. Not Available in AEL12.
DIM	0-10V dimming driver. 10% at lowest level. (N/A with AEL12)
A/B	Aluminum surface back box. Finished with polyester powder coat to match the fixture.
2B	(2) LED drivers for independent LED board operation. (N/A with AEL12, N/A with any OCC option, N/A with AEL24 and EMB options, N/A with AEL36 and EMB310)
PC	Photoelectric switch.
GLR	Fuse and fuse holder.
OCC	Passive infrared sensor mounted in machine hole in end cap. All LEDs sensored on/off. Maximum coverage of 10' radius from 8' height.
OCC50	Passive infrared sensor mounted in machine hole in end cap. 50% of LED's constantly on and 50% sensored on/off. N/A with AEL12.
EMB10ST	1000 lumen self-testing, self-contained, 90 minute emergency battery pack. 0ºC (32ºF) to 55ºC (131ºF). Not available in 347V. Available for AEL24, AEL36, AEL48, and AEL72 lengths only. N/A with 2B option in AEL24. Meets CA Title 20 Standards.
EMB310	1000 lumen self-contained, 90 minute emergency battery pack. 0ºC (32ºF) to 55ºC (131ºF). Not available in 347V. Available for AEL36, AEL48, and AEL72 lengths only. N/A with 2B option. Meets CA Title 20 Standards.
EMB310ST	1000 lumen self-testing, self-contained, 90 minute emergency battery pack. 0ºC (32ºF) to 55ºC (131ºF). Not available in 347V. Available for AEL36, AEL48, and AEL72 lengths only. N/A with 2B option. Meets CA Title 20 Standards.
EMBDA	Two drivers and two emergency battery packs self-contained within fixture for independent light engine operation. Each battery pack will operate each light engine for a minimum of 90 minutes. Not available in 347V. Available in AEL72" length only.
EMB20R	Remote mounted micro inverter that will operate a 25W maximum load for 90 minutes. 0ºC (32ºF) to 45ºC (113ºF).
EMB125R	Remote inverter that will operate a 125W maximum load for 90 minutes. 20ºC (68ºF) to 30ºC (86ºF). Not available in 347V.
EMB250R	Remote inverter that will operate a 250W maximum load for 90 minutes. 20ºC(68ºF) to 30ºC (86ºF). Not available in 347V.
ST/SC	Phillips head screws instead of TORX® head.
TX/SD	TORX® head bit.

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ARCHITECTURAL EGRESS

Vandal Resistant

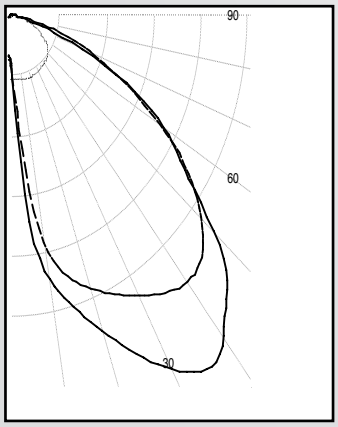
Fixture Type W5

AEL Full Cut-Off LED

PHOTOMETRIC DATA

Model	Watts	Input Watts		Delivered Lumens								
				2700K		3000K		3500K		4000K		5000K
AEL 12	10W	10.8W		736		747		760		784		807
AEL 24	10W	9.4W		820		832		847		873		899
AEL 24	20W	17.6W		1535		1557		1585		1634		1682
AEL 36	15W	14.9W		1231		1248		1271		1310		1348
AEL 36	30W	26.3W		2954		2995		3049		3143		3237
AEL 48	20W	18.8W		1908		1935		1969		2030		2090
AEL 48	35W	35.2W		3568		3616		3682		3796		3909
AEL 72	30W	27.9W		3117		3162		3217		3317		3417
AEL 72	55W	52.2W		5830		5911		6017		6203		6389
AEL xx	PRD			Programmable Driver. Specify Watts or Lumens in Ordering Information.								

MODEL AEL12-10W-4000K
Delivered Lumens: 726 Lumens



IES FILE: AEL12-10W-4000K
Total Power: 10.8W

Testing was performed in accordance with IES LM-79-08
Bug Rating: B0U0G0

Zone	Lumens	% Lamps
0 - 30	153	21.1
0 - 40	287	39.5
0 - 60	585	80.6
60 - 90	726	100.0
0 - 90	439	60.5
90 -180	0	0.0
0 - 180	726	100.0

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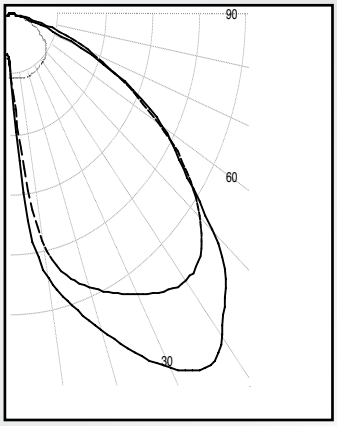
PHOTOMETRIC DATA

MODEL AEL36-15W-4000K
Delivered Lumens: 1652 Lumens

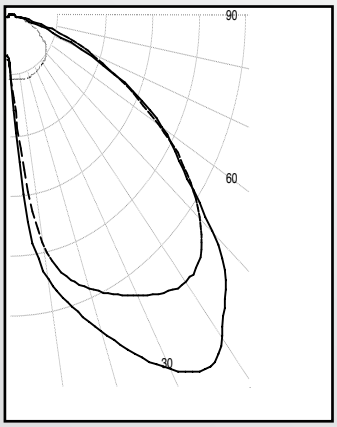


IES FILE: AEL36-15W-4000K
Total Power: 15.01W

Testing was performed in accordance with IES LM-79-08
Bug Rating: B1U0G0

Zone	Lumens	% Lamps
0 - 30	427	25.8
0 - 40	724	43.9
0 - 60	1350	81.7
60 - 90	302	18.3
0 - 90	1652	100.0
90 -180	0	0.0
0 - 180	1652	100.0

MODEL AEL36-30W-4000K
Delivered Lumens: 3141 Lumens

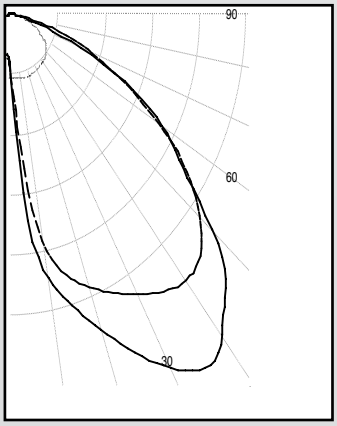


IES FILE: AEL36-30W-4000K
Total Power: 29.7W

Testing was performed in accordance with IES LM-79-08
Bug Rating: B1U0G1

Zone	Lumens	% Lamps
0 - 30	821	26.1
0 - 40	1388	44.2
0 - 60	2575	88.0
60 - 90	566	18.0
0 - 90	3141	100.0
90 -180	0	0.0
0 - 180	3141	100.0

MODEL AEL72-30W-4000K
Delivered Lumens: 3072 Lumens



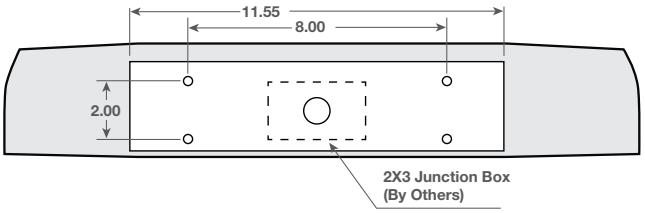
IES FILE: AEL72-30W-4000K
Total Power: 27.09W

Testing was performed in accordance with IES LM-79-08
Bug Rating: B1U0G1

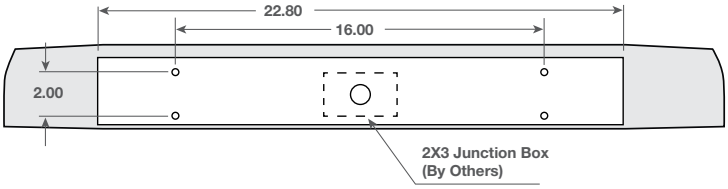
Zone	Lumens	% Lamps
0 - 30	771	25.1
0 - 40	1353	44.1
0 - 60	2529	82.3
60 - 90	3072	100.0
0 - 90	1718	17.7
90 -180	542	0.0
0 - 180	3072	100.0

MOUNTING PLATE DETAILS

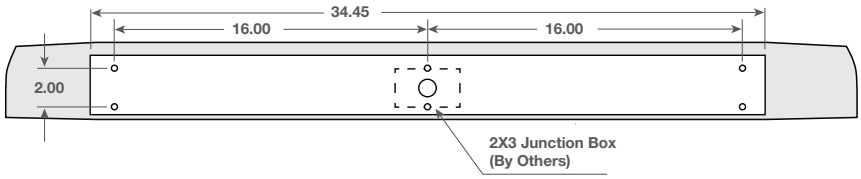
AEL 12



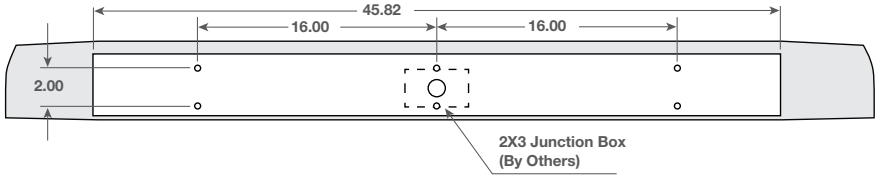
AEL 24



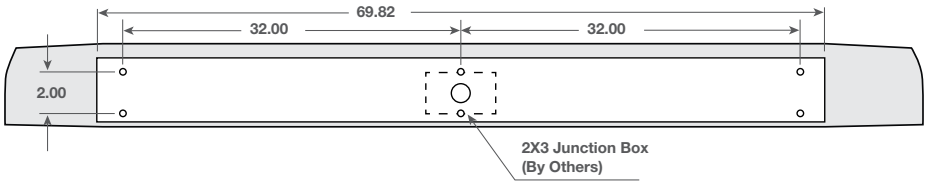
AEL 36



AEL 48



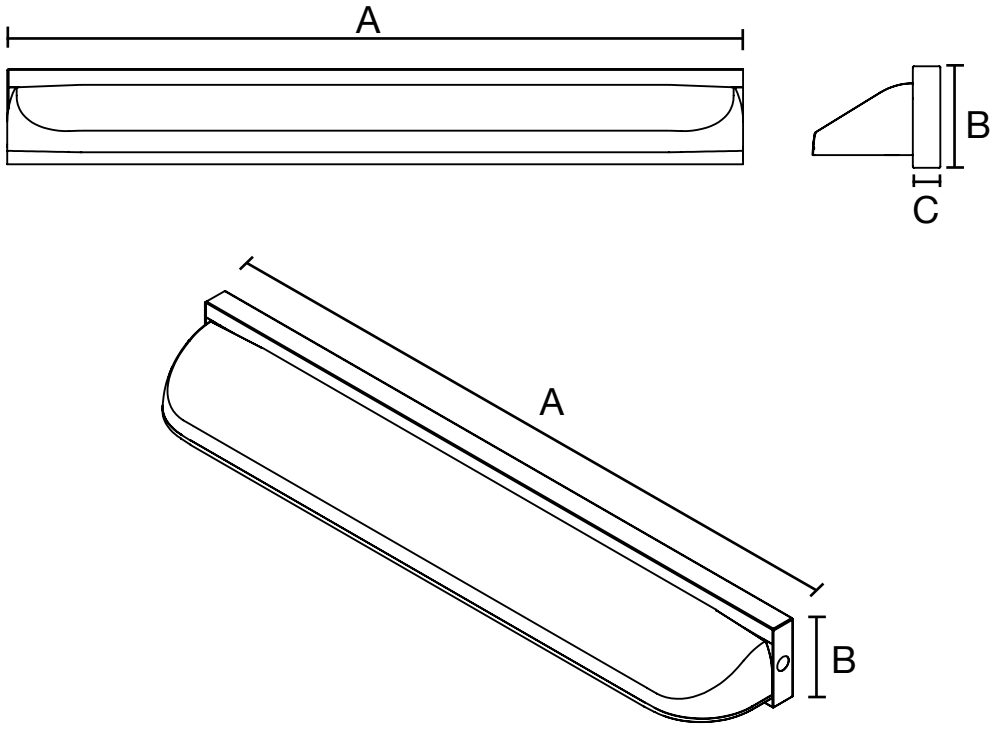
AEL 72



ALUMINUM BACKBOX DETAIL

A/B Detail

	A	B	C
AEL 12 Backbox	20.80	5.20	1.50
AEL 24 Backbox	31.48	5.20	1.50
AEL 36 Backbox	43.30	5.20	1.50
AEL 48 Backbox	54.75	5.20	1.50
AEL 72 Backbox	78.75	5.20	1.50



ARCHITECTURAL EGRESS Vandal Resistant

AEL Full Cut-Off LED

Fixture Type W6	Date
Job Name	Approved By
Catalog Number	

SPECIFICATIONS

Description The Architectural Egress Luminaire combines a unique, patented design shaped with high performance, full cut-off optics to achieve completely unobtrusive illumination of a space or path of egress. When mounted over a doorway, the fixture is perceived as an element of the building structure and, additionally, provides water protection in the form of a drip cap over the doorway. Multiple lengths are available to match a given door opening and our unique quick mount system facilitates installation and maintenance.

Housing Marine grade heat treated extruded aluminum.
Chemically primed and finished with robotically applied polyester powder coat.

Wall Mount Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat. Designed to provide quick mounting to housing and secured with (2) captive stainless steel TORX® head screws.

Lens Frame Marine grade heat treated extruded aluminum, clear anodized. Secured to fixture via integral concealed hinge and (3) captive stainless steel TORX® head screws.

Lens UV stabilized diffused extruded polycarbonate.

End Caps Die-cast marine grade aluminum continuously welded to housing. All welds ground smooth.

Reflector Electrostatically brightened anodized aluminum PVD coated and absolutely color-free of iridescence. Shaped to provide full cutoff, LED point dispersion and maximum efficiency.

Drivers Constant current drivers at 700mA.

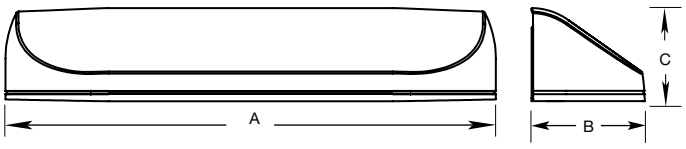
LED Samsung LM561B+ Series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L_{70} projected life of 130,000 hours at 50ºC. Tested in accordance with LM-80. Ten year warranty on LED boards against operational defects.

Gaskets Closed cell self-adhesive neoprene to provide watertight seal between fixture and wall and between fixture and lens frame.

Lifetime Warranty Luminaire LED Incorporated will repair or replace any fixture damaged due to vandalism for the lifetime of the installation.

DIMENSIONAL DATA

	A	B	C
AEL 12	20.79	5.40	3.60
AEL 24	32.04	5.40	3.60
AEL 36	43.29	5.40	3.60
AEL 48	54.75	5.40	3.60
AEL 72	78.75	5.40	3.60



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Rev: 03/19+

ARCHITECTURAL EGRESS

Vandal Resistant

Fixture Type W6

AEL Full Cut-0ff LED

ORDERING INFORMATION

SERIES	LED	CCT	VOLTS	DRIVER	LENS	COLOR	OPTIONS		TX/SD
									TX/SD
AEL 12	10W	2700K	120-277	CC	DP	BKH	DIM	EMB10ST	
AEL 24	10W	3000K	347	DIM		BZH	A/B	EMB310	
	20W	3500K		PRD		SVH	2B	EMB310ST	
AEL 36	15W	4000K				WOP	PC	EMB20R	
	30W	5000K				CUST	GLR	EMB125R	
AEL 48	20W						OCC	EMB250R	
	35W						OCC50	EMBDA	
AEL 72	30W							ST/SC	
	55W								
	PRD: Specify Watts or Lumens Above								

CC = Constant Current (Standard)
DIM = 0-10V Dimming, 10% at lowest level
PRD = Programmable driver. Specify Watts or Lumens in Ordering Information under “LED” column. N/A with AEL12.

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OPTIONS

LENS	DP = Diffused Polycarbonate.
COLORS	BKH = Black (Hammertone) BZH = Bronze (Hammertone) SVH = Silver (Hammertone) WOP = White (Textured White) CUST = Custom Color (Consult Factory)
PRD	Programmable driver. When ordering, must specify Watts or Lumens. Consult factory for availability. Not Available in AEL12.
DIM	0-10V dimming driver. 10% at lowest level. (N/A with AEL12)
A/B	Aluminum surface back box. Finished with polyester powder coat to match the fixture.
2B	(2) LED drivers for independent LED board operation. (N/A with AEL12, N/A with any OCC option, N/A with AEL24 and EMB options, N/A with AEL36 and EMB310)
PC	Photoelectric switch.
GLR	Fuse and fuse holder.
OCC	Passive infrared sensor mounted in machine hole in end cap. All LEDs sensored on/off. Maximum coverage of 10' radius from 8' height.
OCC50	Passive infrared sensor mounted in machine hole in end cap. 50% of LED's constantly on and 50% sensored on/off. N/A with AEL12.
EMB10ST	1000 lumen self-testing, self-contained, 90 minute emergency battery pack. 0ºC (32ºF) to 55ºC (131ºF). Not available in 347V. Available for AEL24, AEL36, AEL48, and AEL72 lengths only. N/A with 2B option in AEL24. Meets CA Title 20 Standards.
EMB310	1000 lumen self-contained, 90 minute emergency battery pack. 0ºC (32ºF) to 55ºC (131ºF). Not available in 347V. Available for AEL36, AEL48, and AEL72 lengths only. N/A with 2B option. Meets CA Title 20 Standards.
EMB310ST	1000 lumen self-testing, self-contained, 90 minute emergency battery pack. 0ºC (32ºF) to 55ºC (131ºF). Not available in 347V. Available for AEL36, AEL48, and AEL72 lengths only. N/A with 2B option. Meets CA Title 20 Standards.
EMBDA	Two drivers and two emergency battery packs self-contained within fixture for independent light engine operation. Each battery pack will operate each light engine for a minimum of 90 minutes. Not available in 347V. Available in AEL72" length only.
EMB20R	Remote mounted micro inverter that will operate a 25W maximum load for 90 minutes. 0ºC (32ºF) to 45ºC (113ºF).
EMB125R	Remote inverter that will operate a 125W maximum load for 90 minutes. 20ºC (68ºF) to 30ºC (86ºF). Not available in 347V.
EMB250R	Remote inverter that will operate a 250W maximum load for 90 minutes. 20ºC(68ºF) to 30ºC (86ºF). Not available in 347V.
ST/SC	Phillips head screws instead of TORX® head.
TX/SD	TORX® head bit.

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ARCHITECTURAL EGRESS

Vandal Resistant

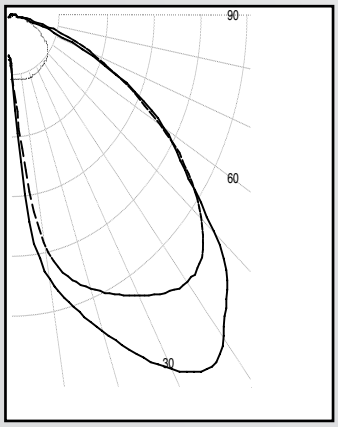
Fixture Type W6

AEL Full Cut-Off LED

PHOTOMETRIC DATA

Model	Watts	Input Watts		Delivered Lumens								
				2700K		3000K		3500K		4000K		5000K
AEL 12	10W	10.8W		736		747		760		784		807
AEL 24	10W	9.4W		820		832		847		873		899
AEL 24	20W	17.6W		1535		1557		1585		1634		1682
AEL 36	15W	14.9W		1231		1248		1271		1310		1348
AEL 36	30W	26.3W		2954		2995		3049		3143		3237
AEL 48	20W	18.8W		1908		1935		1969		2030		2090
AEL 48	35W	35.2W		3568		3616		3682		3796		3909
AEL 72	30W	27.9W		3117		3162		3217		3317		3417
AEL 72	55W	52.2W		5830		5911		6017		6203		6389
AEL xx	PRD			Programmable Driver. Specify Watts or Lumens in Ordering Information.								

MODEL AEL12-10W-4000K
Delivered Lumens: 726 Lumens



IES FILE: AEL12-10W-4000K
Total Power: 10.8W

Testing was performed in accordance with IES LM-79-08
Bug Rating: B0U0G0

Zone	Lumens	% Lamps
0 - 30	153	21.1
0 - 40	287	39.5
0 - 60	585	80.6
60 - 90	726	100.0
0 - 90	439	60.5
90 -180	0	0.0
0 - 180	726	100.0

Luminaire Led
a division of the LUMINAIRES GROUP

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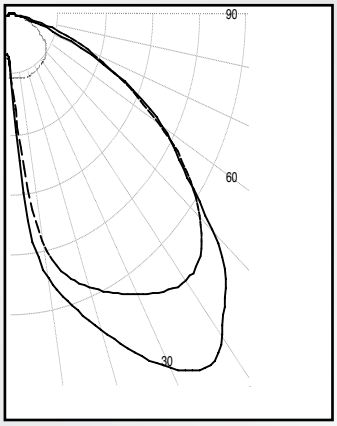
P. 732.549.0056

Luminaire LED Incorporated products are manufactured in the USA with components purchased from USA suppliers, and meet the Buy American requirements under the ARRA. Content of specification sheets is subject to change; please consult our website for current product information.

PHOTOMETRIC DATA

MODEL AEL36-15W-4000K
Delivered Lumens: 1652 Lumens

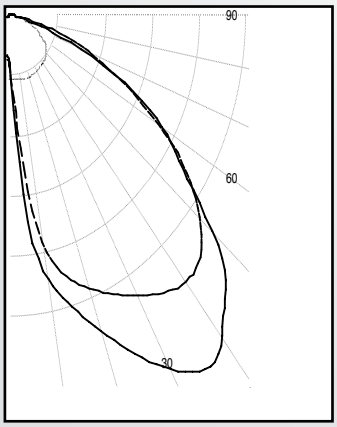


IES FILE: AEL36-15W-4000K
Total Power: 15.01W

Testing was performed in accordance with IES LM-79-08
Bug Rating: B1U0G0

Zone	Lumens	% Lamps
0 - 30	427	25.8
0 - 40	724	43.9
0 - 60	1350	81.7
60 - 90	302	18.3
0 - 90	1652	100.0
90 -180	0	0.0
0 - 180	1652	100.0

MODEL AEL36-30W-4000K
Delivered Lumens: 3141 Lumens

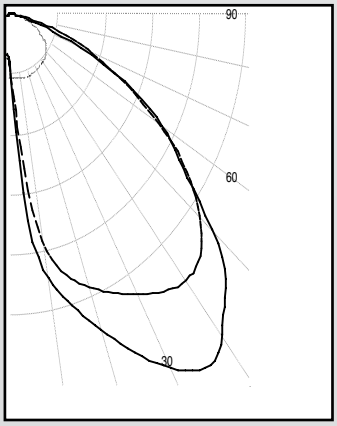


IES FILE: AEL36-30W-4000K
Total Power: 29.7W

Testing was performed in accordance with IES LM-79-08
Bug Rating: B1U0G1

Zone	Lumens	% Lamps
0 - 30	821	26.1
0 - 40	1388	44.2
0 - 60	2575	88.0
60 - 90	566	18.0
0 - 90	3141	100.0
90 -180	0	0.0
0 - 180	3141	100.0

MODEL AEL72-30W-4000K
Delivered Lumens: 3072 Lumens



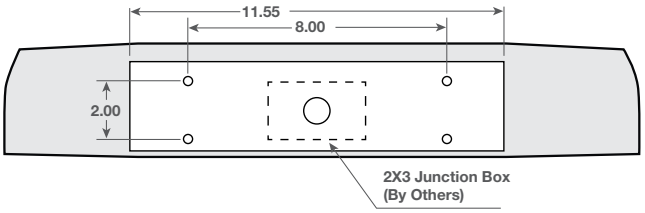
IES FILE: AEL72-30W-4000K
Total Power: 27.09W

Testing was performed in accordance with IES LM-79-08
Bug Rating: B1U0G1

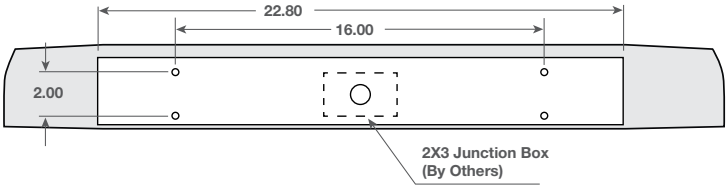
Zone	Lumens	% Lamps
0 - 30	771	25.1
0 - 40	1353	44.1
0 - 60	2529	82.3
60 - 90	3072	100.0
0 - 90	1718	17.7
90 -180	542	0.0
0 - 180	3072	100.0

MOUNTING PLATE DETAILS

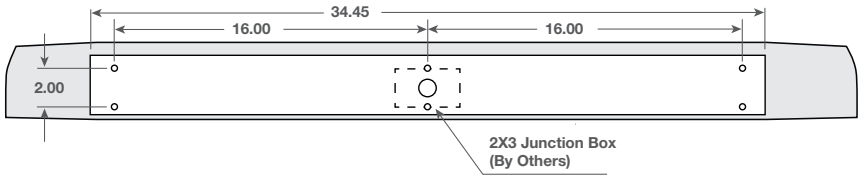
AEL 12



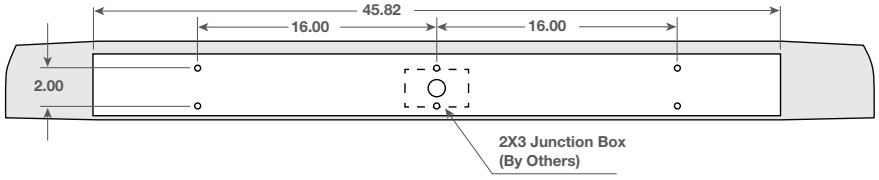
AEL 24



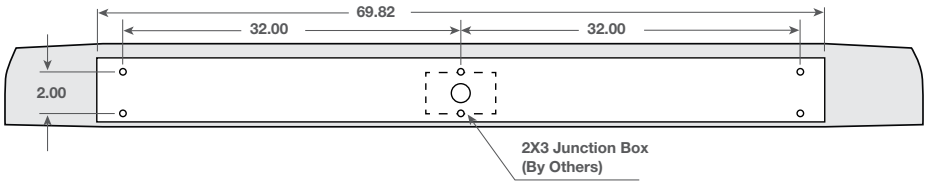
AEL 36



AEL 48



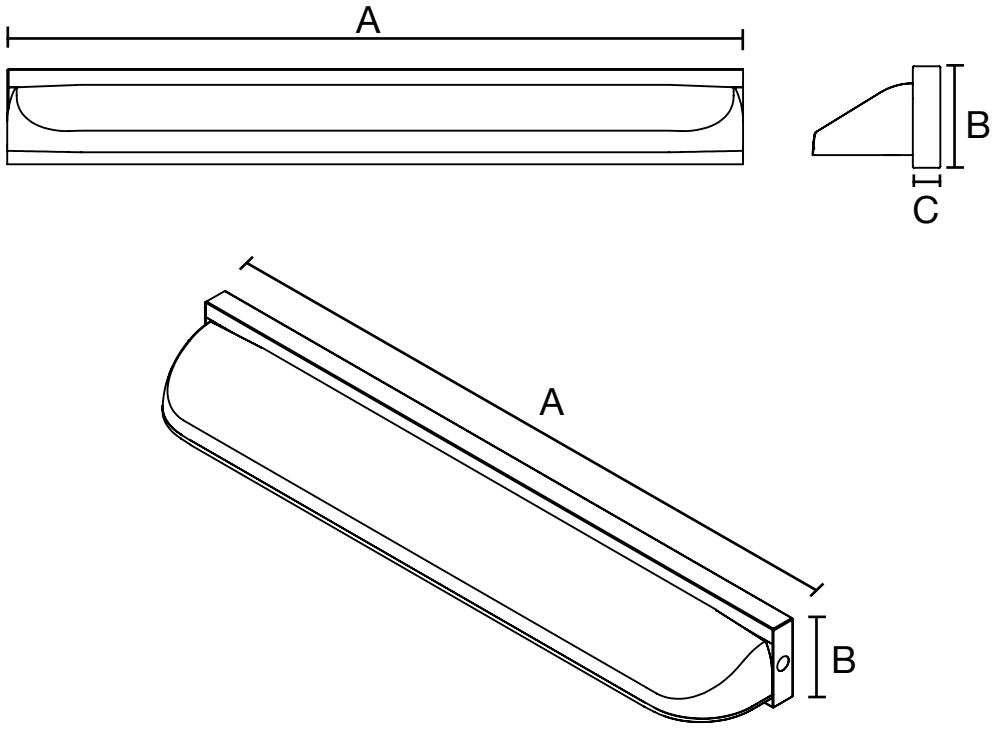
AEL 72



ALUMINUM BACKBOX DETAIL

A/B Detail

	A	B	C
AEL 12 Backbox	20.80	5.20	1.50
AEL 24 Backbox	31.48	5.20	1.50
AEL 36 Backbox	43.30	5.20	1.50
AEL 48 Backbox	54.75	5.20	1.50
AEL 72 Backbox	78.75	5.20	1.50



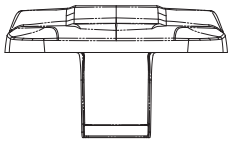
LEOTEK LITE-ON GROUP

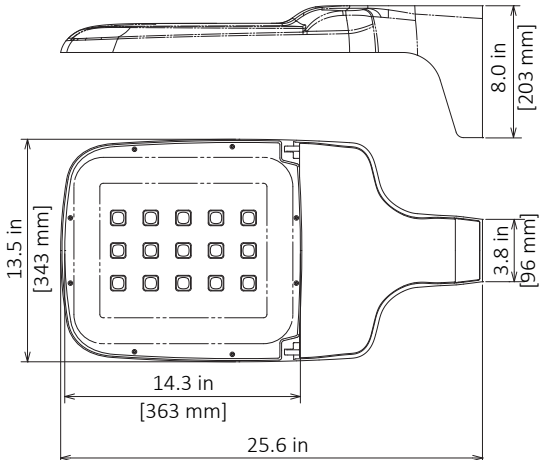
Project Y1
Type
Catalog No.

ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Luminaire Data

Weight 15.4 lbs [7 kg]
EPA 0.47 ft²





Ordering Information

Sample Catalog No. AR13 6M2 MV NW 5 BK 700 MSL3

Product	LED Code	Voltage	Nominal Color Temperature	Distribution	Finish[1]	Drive Current Code [2]	Options
AR13	**4M2** **6M2** **10M2** **15M2** **18M2** **20M2**	**MV** 120-277V **HV** 347-480V	**WW** 3000K **NW** 4000K **CW** 5000K	**2** Type 2 **3** Type 3 **4** Type 4 **5** Type 5	**BK** Black **DB** Dark Bronze **WH** White **GY** Gray **NA** Natural Aluminum	**350** **530** **700**	**HSS**[3] House Side Shield (Factory Installed) **FDC**[4] Fixed Drive Current **FFA**[5] Full Field Adjustability **PCR**[6] NEMA Photocontrol Receptacle **PCR7**[6] ANSI 7-wire Photocontrol Receptacle **PCR7-CR**[7] Control Ready 7-wire Photocontrol Receptacle **MSL7**[8] Motion Sensor with L7 Lens **MSL3**[8] Motion Sensor with L3 Lens **PND1**[9] Part-Night Dimming **PND2**[9] Part-Night Dimming **PND3**[9] Part-Night Dimming **ORR** Optics Rotated Right **ORL** Optics Rotated Left **WL** Utility Wattage Label

Notes:
1 Black, Dark Bronze, White, Gray, or Natural Aluminum standard. Consult factory for other finishes. See page 2 for specifications.
2 Specified drive current code is the factory set maximum drive current. Field adjustable current selector enables standard dimming to lower wattage drive currents only. Consult factory if wattage limits require a special drive current.
3 Flush mounted shield factory installed, also available for field installion. House Side Shield cuts light off at 1/2 mounting height behind luminaire.
4 Non-field adjustable drive current. Specify 350mA, 530mA or 700mA setting.
5 The FFA option enables full field adjustability from the specified drive current code to all drive currents available. This option is not DLC qualified.
6 Field adjustable current selector included to enable standard dimming to lower wattage drive currents only. Field changeable connectors included to enable connection to PCR7 (wireless node dimming is disabled by default).
7 Control-ready wired at factory for wireless node dimming. Supplied at maximum drive current. If lower drive current is required, consult factory.
8 Motion Sensor available with MV. See L7 or L3 Lens coverage details on page 5. Consult factory for MS specified with ANSI 7-wire Photocontrol Receptacle. PCR option is required for On/Off control using light detection.
9 For PND profile options see page 6. Only available with MV (120-277V).
10 Specify Color (GY, DB, BK, WH, NA)
11 Specify MV (120-277V) or HV (347V or 480V)

Accessories*	
HSSAR13[3,10]	House Side Shield
RPA[10]	Round Pole Adapter
PTF1[10]	Square Pole Top Fitter Single
PTF2[10]	Square Pole Top Fitter Twin at 180°
PTF4[10]	Square Pole Top Fitter Quad
WM[10]	Wall Mount
BSK	Bird Deterrent Spider Kit
LLPC[11]	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap
FSIR100	Motion Sensor Configuration Tool

*Accessories are ordered separately and not to be included in the catalog number

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ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Luminaire Specifications

Housing
Die cast aluminum housing with universal mounting design allows for attachment to existing pole without redrilling for retrofit applications. Aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass. Electrical components are accessed without tools and are mounted on removable power door.

Light Emitting Diodes
Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21. LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 3000K (WW), 4000K (NW), or 5000K (CW) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Field Adjustability
LED drive current can be changed in the field to adjust light output for local conditions (not available with PCR7-CR option). The specified drive current code will be the factory set maximum drive current and field adjustments can only be made to available lower wattage drive currents. Select the FFA option if full field adjustability to all available drive currents (700mA max) is desired. The FFA option is not DLC qualified.

Quality Control
Every luminaire is performance tested before and after a 2-hour burn-in period. Assembled in the USA.

Optical Systems
Micro-lens optical systems produce IESNA Type 2, Type 3, Type 4 or Type 5 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0). Optional house side shield (HSS) cuts light off at 1/2 mounting height behind luminaire. Optics may be rotated right or left with options ORR/ORL, respectively.

Electrical
Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 6 to 14 gauge wire. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA and ANSI C136.2-2015, 20kV/10kA.

Controls
3-Wire photocontrol receptacle (PCR) is available. ANSI C136.41 7-wire (PCR7) photocontrol receptacles are available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish
Housing receives a fade and abrasion resistant polyester powder coat finish with 3.0 mil nominal thickness. Finish tested to withstand 5000 hours in salt spray exposure per ASTM B117. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels
Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified product. Consult DLC QPL for Standard and Premium Classification Listings. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C.

Photometry
Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty
10-year limited warranty is standard on luminaire and components. 5-year limited warranty on luminaires and components with a motion sensor.

Standards
Luminaire complies with:

ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77

Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449, UL 1598

Color Specifications

Order Code	Color	RAL #	Pantone Equivalent
GY	Gray	7040	429C
BK	Black	9004	426C
DB	Dark Bronze	6022	BLACK 2C
WH	White	9003	11-0601
NA	Natural Aluminum	9006	N/A

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ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Performance Data 3000K (WW)

All data nominal. IES files are available at leotek.com.

			Type 2, 3, 4		Type 5	
LED Code	**Current Code**	**System Wattage (W)**	**Delivered Lumens (Lm)[1]**	**Efficacy (Lm/W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**
4M2	350	20	2000	100	1930	96
	530	28	2720	97	2630	94
	700	36	3410	94	3300	91
6M2	350	29	2930	101	2750	95
	530	41	4110	99	3860	93
	700	54	5040	94	4950	92
10M2	350	41	4600	112	4500	109
	530	63	6700	106	6600	104
	700	87	8500	97	8400	96
15M2	350	63	7400	117	7300	116
	530	90	9600	107	9500	106
	700	124	12900	104	12700	102
18M2	350	81	9000	111	9100	112
	530	122	12800	105	13000	107
	700	160	16400	103	16700	104
20M2	350	84	10700	127	10800	129
	530	132	15300	116	15500	117
	700	172	18200	106	18500	108

Notes:
1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance, and ambient temperatures.

Performance Data 4000K (NW) & 5000K (CW)

All data nominal. IES files are available at leotek.com.

			Type 2, 3, 4		Type 5	
LED Code	**Current Code**	**System Wattage (W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**
4M2	350	20	2330	116	2290	114
	530	28	3170	113	3110	111
	700	36	3990	111	3920	109
6M2	350	29	3490	120	3480	120
	530	41	4810	116	4850	117
	700	54	5980	111	5880	109
10M2	350	41	5400	132	5300	129
	530	63	7800	124	7700	122
	700	87	10000	115	9800	113
15M2	350	63	8400	133	8300	132
	530	90	11500	128	11300	126
	700	124	15000	121	14700	119
18M2	350	81	9600	119	9700	120
	530	122	13700	112	13900	114
	700	160	17500	109	17800	111
20M2	350	84	10600	126	10800	129
	530	132	15200	115	15500	117
	700	172	19500	114	19800	115

Notes:
1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance, and ambient temperatures.

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BUG Ratings: 3000K (WW)

All data nominal. IES files for all CCTs are available at leotek.com.

LED Code	Current Code	Type 2	Type 3	Type 4	Type 5
4M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G0	B1 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
6M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
10M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	530	B1 U0 G1	B1 U0 G1	B2 U0 G1	B3 U0 G1
	700	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
15M2	350	B1 U0 G1	B1 U0 G2	B2 U0 G2	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	700	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
18M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
20M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B3 U0 G3	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G3	B3 U0 G2	B4 U0 G2

BUG Ratings: 4000K (NW) & 5000K (CW)

All data nominal. IES files for all CCTs are available at leotek.com.

LED Code	Current Code	Type 2	Type 3	Type 4	Type 5
4M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G0	B1 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
6M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
10M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
	700	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
15M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	700	B2 U0 G2*	B2 U0 G2	B3 U0 G2	B4 U0 G2
18M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G2*	B3 U0 G2	B4 U0 G2
20M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2*	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G3	B3 U0 G3	B4 U0 G2

* These BUG ratings are slightly different for 5000K (CW). Refer to IES files for actual CW rating.

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Motion Sensor (Optional) Specifications

Description
Digital passive infrared luminaire integrated outdoor occupancy sensor provides high/low/off control based on motion detection. Initial setup and subsequent sensor adjustments are made using a handheld configuration tool. PCR option is required for On/Off control using light detection. Available with MV input voltage only.

Operation
Standard factory setting will dim the luminaire to 50% until motion is sensed and then it will power to 100%. When motion is not detected for five minutes, the luminaire will dim back to 50%. Ramp up and fade down times are adjustable, but initially set to NONE. The percent dimming and time durations may be field adjusted as required using FSIR-100 configuration tool. FSIR-100 user guide available at: www.wattstopper.com.

Optical System
Multi-cell, multi-tier Fresnel lens with a 360 degree view detects unobstructed motion within one mounting height, up to 20 ft. maximum (MSL3) or 40 ft. maximum (MSL7). Consult factory for higher mounting height requirements.

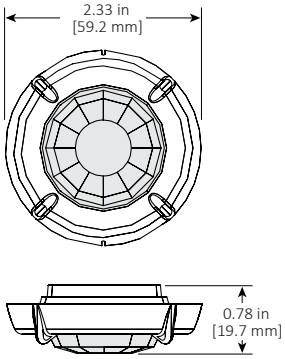
Finish
Sensor exterior ring and lens are white polycarbonate, UV and impact resistant.

Listings/Ratings
Sensor is TUV, UL and cUL listed, IP66 rated and CE compliant.

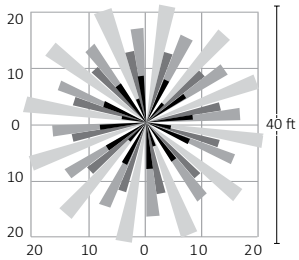
Warranty
5-year limited warranty on luminaires and components with a motion sensor.

Motion Sensor (Optional) Data

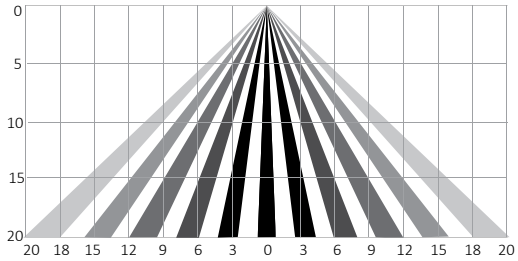
MSL3 Lens Dimensions



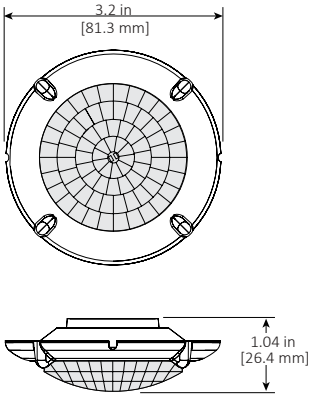
MSL3 Lens Coverage Top View



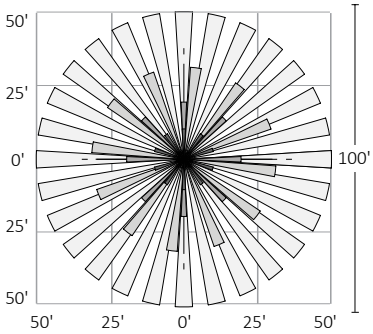
MSL3 Lens Coverage Side View



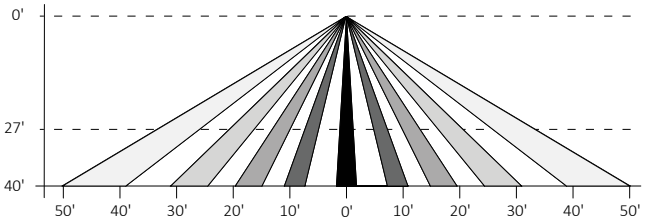
MSL7 Lens Dimensions



MSL7 Lens Coverage Top View



MSL7 Lens Coverage Side View



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Part-Night Dimming Specifications

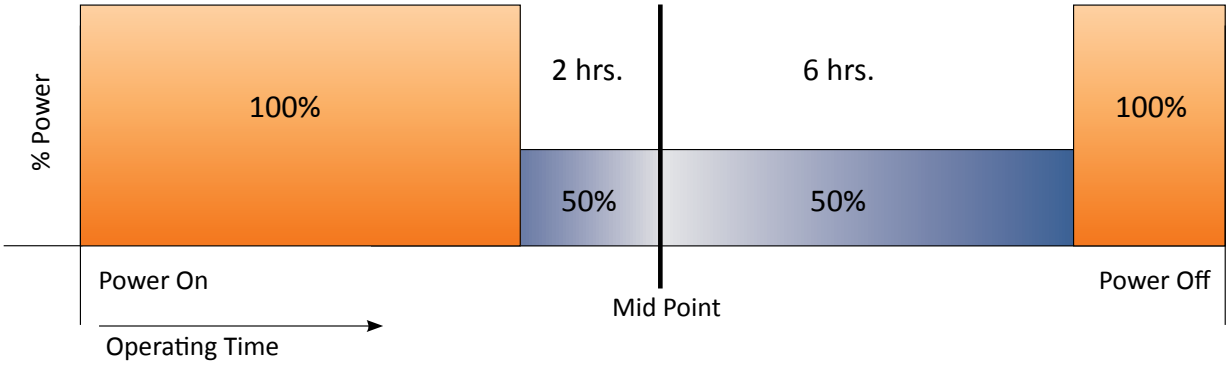
Description

Arieta's Part-Night Dimming (PND) option enables significant energy savings by automatically dimming the luminaire during early morning hours when infrequent use is expected. Factory programmed dimming profiles automatically take into account seasonal changes based on geographical location by continuously monitoring the nighttime midpoint. This option is fully compatible with photocells and time clock devices, but is not field adjustable.

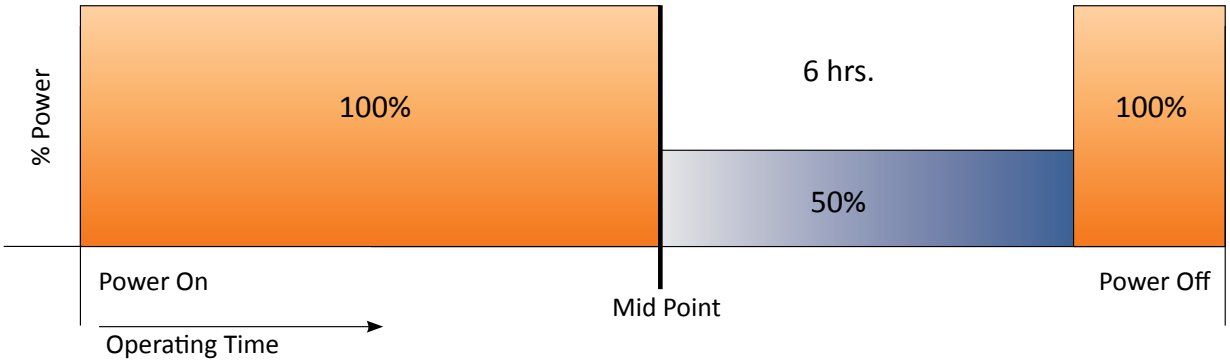
Operation

Based on the PND profile that is selected, the luminaire dims to the corresponding % power for the corresponding length of time (based on the nighttime mid-point) as shown below. Mid-point is continuously recalculated in the luminaire by monitoring the average length of time between when the light turns on (power on) and turns off (power off) over the previous two days. In effect, this functionality will take two days to initialize after installation before any dimming will occur. Power interruptions are ignored and do not affect the determination of mid-point. A motion sensor (MSL3 or MSL7) can be used with PND to temporarily override the dimming profile when motion is detected. Three factory programmed PND profiles are available for selection:

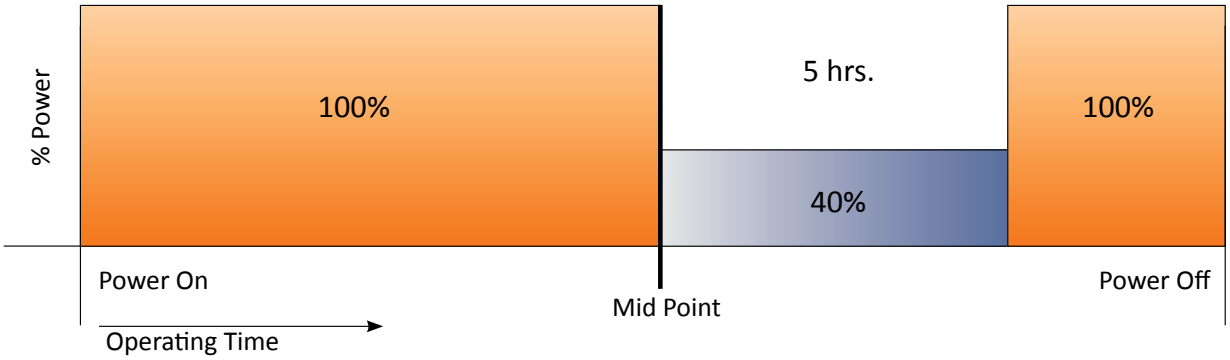
PND1



PND2



PND3



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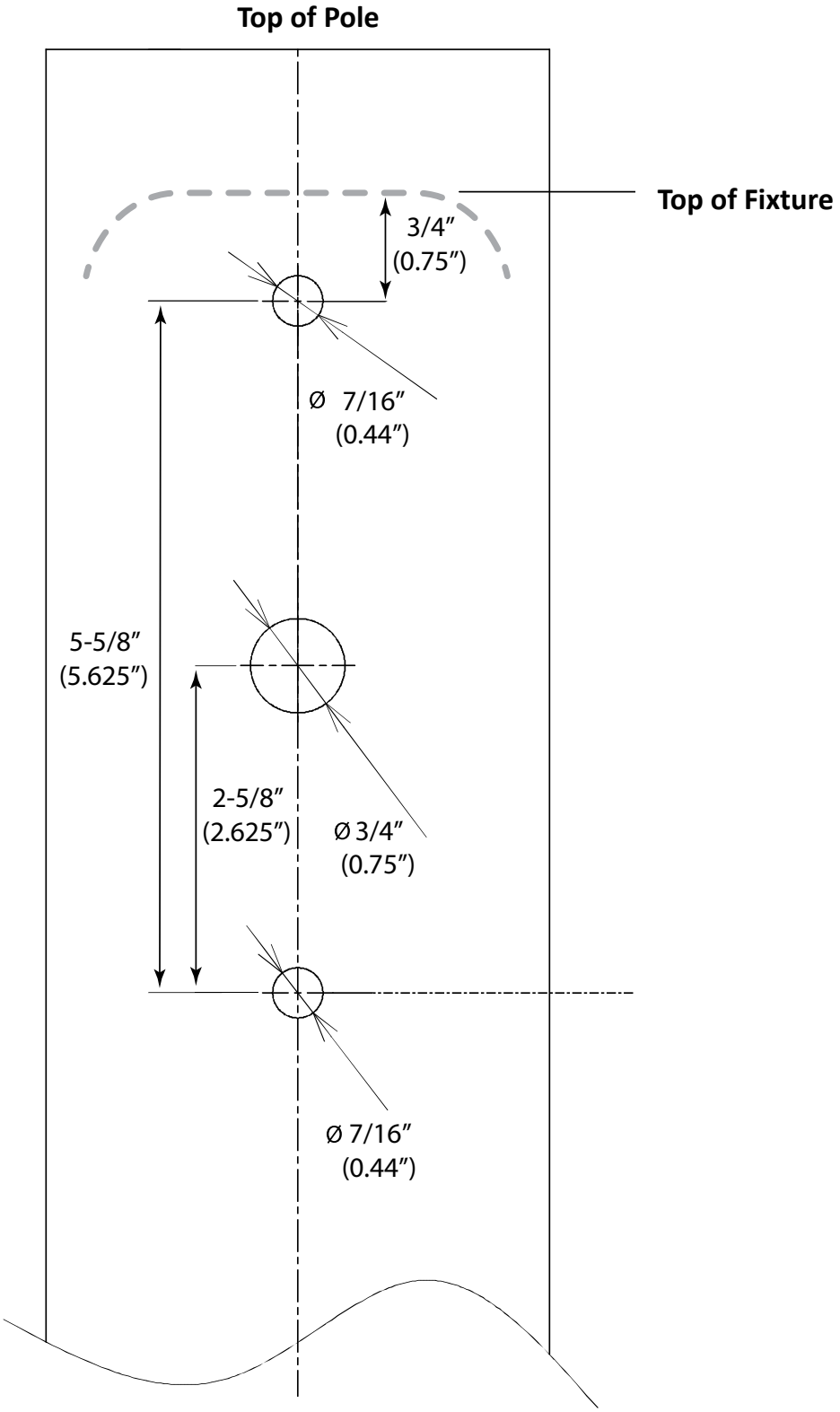
Pole Mount Drilling Dimensions for New Construction
For more details, consult the Arieta Instllation Guide



Mounting Pole Drilling Dimensions
for New Construction

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SSS-H SERIES POLES

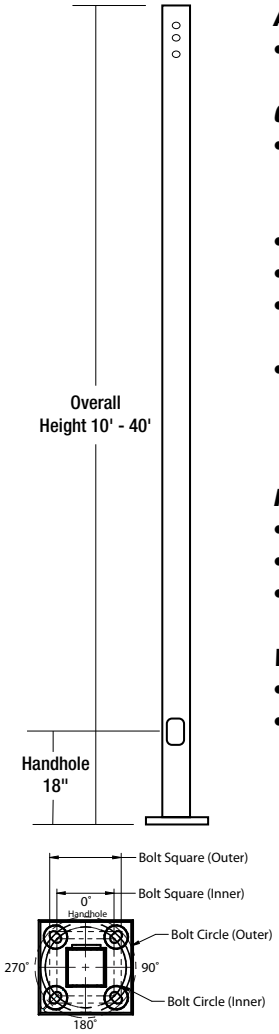
SQUARE STRAIGHT STEEL

Cat.#	
Job	Type

SSS-H-23-40-B-1&2-Custom Drilling-DB-UL

HUBBELL Outdoor Lighting

Approvals



APPLICATIONS

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

CONSTRUCTION

- SHAFT: One-piece straight steel with square cross section, flat sides and minimum 0.23" radius on all corners; Minimum yield of 46,000 psi (ASTM-A500, Grade B); Longitudinal weld seam to appear flush with shaft side wall; Steel base plate with axial bolt circle slots welded to pole shaft having minimum yield of 36,000 psi (ASTM A36)
- BASE COVER: Two-piece square aluminum base cover included standard
- POLE CAP: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- HAND HOLE: Rectangular 3x5 steel hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- ANCHOR BOLTS: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling

  Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38
  1 x 36 x 4 — TAB-36-M38

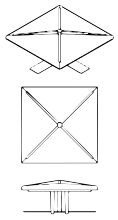
FINISH

- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method
- Decorative finish coat available in seven standard colors; Custom colors available; RAL number preferable; Internal protective coating available

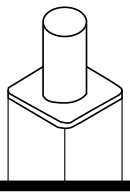
WAREHOUSE 'STOCKED' POLES:

- SSSH20-40A-4-HV-DB-RDC, SSSH25-40A-4-HV-DB-RDC and SSSH30-50B-4-HV-DB-RDC
- The HV designation in the above catalog numbers is a combination of the S2 pattern and the B3 pattern

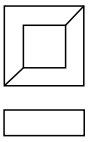
POLE CAP



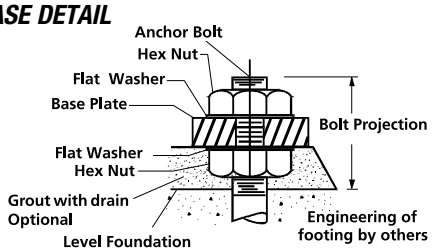
TENON



BASE COVER



BASE DETAIL



ORDERING INFORMATION

SSS-H-23-40-B-1 & 2-Custom Drilling-DB

Reference page 2 for available configurations

ORDERING EXAMPLE:

SSS-H - 25 - 40 - A/B/C - 2L - S2 - DB - UL

SERIES	HEIGHT	SHAFT	THICKNESS
SSS-H Square Straight Steel Pole Hubbell Outdoor	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix

MOUNTING

- **1** Single arm mount
- **2** Two fixtures at 180°
- **2L** Two fixtures at 90°
- **3T** Three fixtures at 90°
- **4** Four fixtures at 90°
- **TA** Tenon (2.38" OD x 4" Tall)
- **TB** Tenon (2.88" OD x 4" Tall)
- **TC** Tenon (3.5" OD x 6" Tall)
- **TR**[1] Removable Tenon (2.38" x 4")
- **OT** Open Top (includes pole cap)

DRILL PATTERN

- **S2** 2 bolt, 3.5" pattern
- **B3** 2 bolt, 2.5" spacing, Ratio

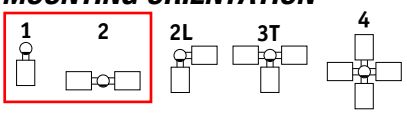
FINISH

- **DB** Dark Bronze Textured
- **BL** Black Textured
- **WH** White Textured
- **GR** Gray Textured
- **PS** Platinum Silver Smooth
- **CC** Custom Color

OPTIONS

- **GFI**[2] 20 Amp GFCI Receptacle and Cover
- **EHH**[2] Extra Handhole
- **C05**[2] .5" Coupling
- **C07**[2] .75" Coupling
- **C20**[2] 2" Coupling
- **MPB**[2] Mid-pole Luminaire Bracket
- **VM2** 2nd mode vibration damper
- **LAB** Less Anchor Bolts
- **UL** UL Certified

MOUNTING ORIENTATION



ACCESSORIES- Order Separately

Catalog Number	Description
VM1[3]	1st mode vibration damper
VM2SXX	2nd mode vibration damper

1 Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by the "**TR**" notation. Example: **SSS-H-25-40-A-1-S2-TR-DB**
2 Specify option location using logic found on page 2 **(Option Orientation)**
3 VM1 recommended on poles 20' and taller with EPA of less than 1.

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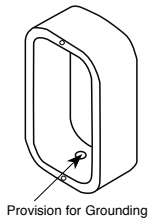
ORDERING INFORMATION (Continued)

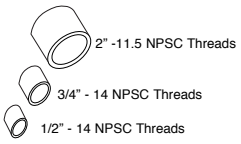
Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (suggested)	Bolt Circle (range)	Bolt Square (range)	Base Plate Square	Anchor bolt size	Bolt Projection	Pole weight
	Feet	Meters									
SSS-H-10-40-A-XX-XX	10	3.0	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	77
SSS-H-12-40-A-XX-XX	12	3.7	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	90
SSS-H-14-40-A-XX-XX	14	4.3	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	103
SSS-H-16-40-A-XX-XX	16	4.9	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	116
SSS-H-18-40-A-XX-XX	18	5.5	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	129
SSS-H-20-40-A-XX-XX	20	6.1	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	142
SSS-H-25-40-A-XX-XX	25	7.6	4" square	0.125"	9"	8" - 10"	5.66" - 7.07"	9"	3/4" x 30" x 3"	3.5	175
SSS-H-14-40-B-XX-XX	14	4.3	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	152
SSS-H-16-40-B-XX-XX	16	4.9	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	171
SSS-H-18-40-B-XX-XX	18	5.5	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	190
SSS-H-20-40-B-XX-XX	20	6.1	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	209
SSS-H-25-40-B-XX-XX	25	7.6	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	257
SSS-H-30-40-B-XX-XX	30	9.1	4" square	.188"	11"	10" - 12"	7.07" - 8.48"	10.50"	3/4" x 30" x 3"	3.5	304
SSS-H-16-50-B-XX-XX	16	4.9	5" square	.188"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	219
SSS-H-18-50-B-XX-XX	18	5.5	5" square	.188"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	243
SSS-H-20-50-B-XX-XX	20	6.1	5" square	.188"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	267
SSS-H-25-50-B-XX-XX	25	7.6	5" square	.188"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	327
SSS-H-30-50-B-XX-XX	30	9.1	5" square	.188"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	387
SSS-H-25-50-C-XX-XX	25	7.6	5" square	.25"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	427
SSS-H-30-50-C-XX-XX	30	9.1	5" square	.25"	11"	10.25" - 13.25"	7.25" - 9.37"	11.50"	1" x 36" x 4"	4.5	507
SSS-H-20-60-B-XX-XX	20	6.1	6" square	.188"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1-1/4" x 42" x 6"	5.0	329
SSS-H-25-60-B-XX-XX	25	7.6	6" square	.188"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1-1/4" x 42" x 6"	5.0	404
SSS-H-30-60-B-XX-XX	30	9.1	6" square	.188"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1-1/4" x 42" x 6"	5.0	479
SSS-H-35-60-B-XX-XX	35	10.7	6" square	.188"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1-1/4" x 42" x 6"	5.0	554
SSS-H-40-60-B-XX-XX	40	12.2	6" square	.188"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1-1/4" x 42" x 6"	5.0	629
SSS-H-30-60-C-XX-XX	30	9.1	6" square	.25"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1-1/4" x 42" x 6"	5.0	614
SSS-H-35-60-C-XX-XX	35	10.7	6" square	.25"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1-1/4" x 42" x 6"	5.0	712
SSS-H-40-60-C-XX-XX	40	12.2	6" square	.25"	12"	11.00" - 13.25"	7.81" - 9.37"	12.25"	1-1/4" x 42" x 6"	5.0	809

NOTE Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

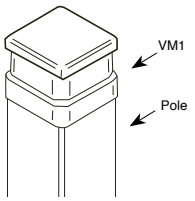
EHH - EXTRA HANDHOLE



C05 - C07 - C20 - COUPLING

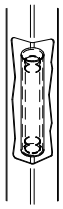


VM1 - VIBRATION DAMPER 1ST MODE



Field Installed Pole Top damper designed to reduce pole top deflection or sway. VM1 is recommended for pole systems 25' and taller with a total EPA of 1.0 or less.

VM2 - VIBRATION DAMPER 2ND MODE



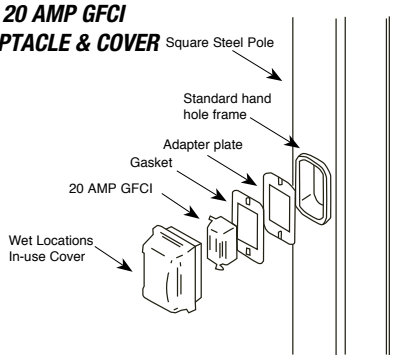
Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

VM2SXX - VIBRATION DAMPER 2ND MODE

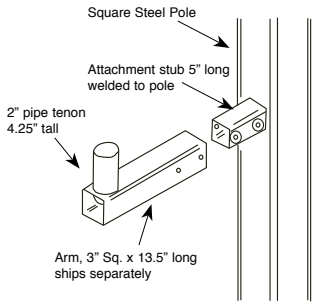
VM2S08 – 8'
VM2S12 – 12'
VM2S16 – 16'
VM2S20 – 20'
VM2S24 – 24'

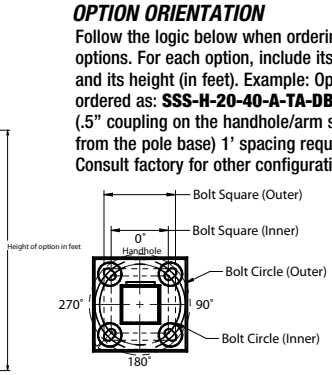
Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

GFI – 20 AMP GFCI RECEPTACLE & COVER



MPB - MID POLE BRACKET





OPTION ORIENTATION

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: **SSS-H-20-40-A-TA-DB-C07-0-15** (.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.

For more information about pole vibration and vibration dampers, please consult https://hubbellcdn.com/ohwassets/HLI/outdoor/resources/literature/files/Pole_Wind_Induced_Flyer_HLOI0022.pdf
Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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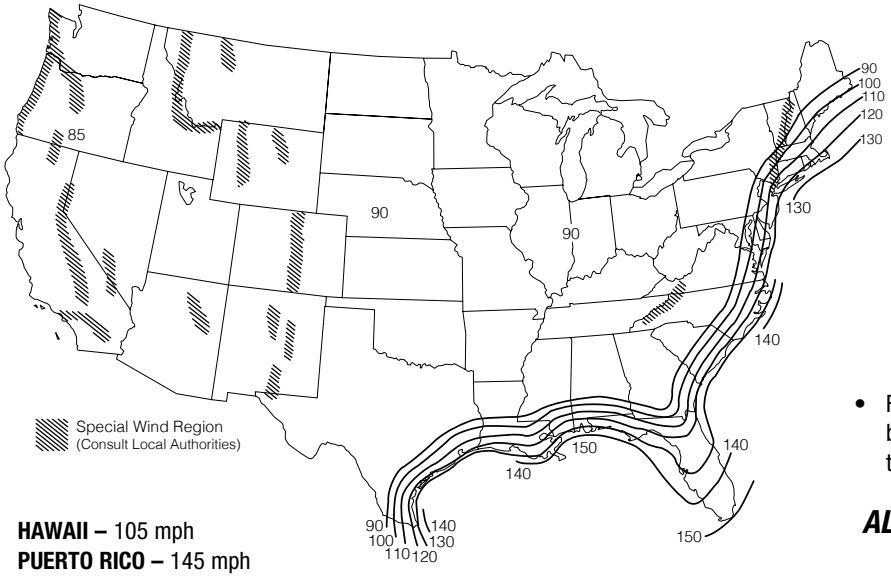
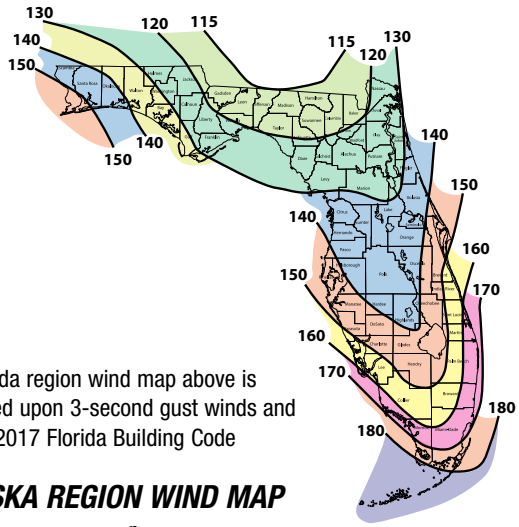
ASCE7-05 WIND MAP



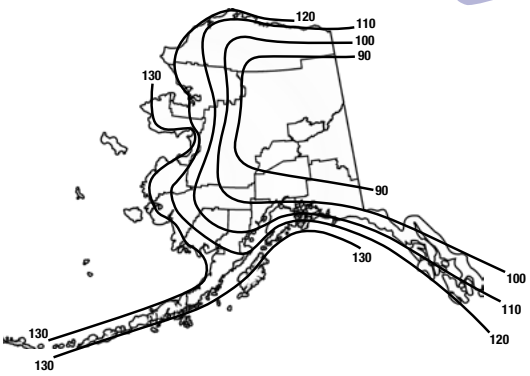
HAWAII – 105 mph
PUERTO RICO – 145 mph

FLORIDA REGION WIND MAP



- Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code

ALASKA REGION WIND MAP



ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds (Use for all locations except Florida)										
Catalog Number	**85**	**90**	**100**	**105**	**110**	**120**	**130**	**140**	**145**	**150**
SSS-H-10-40-A	25.0	25.0	25.0	22.8	20.6	17.0	14.2	11.9	11.0	10.1
SSS-H-12-40-A	25.0	25.0	20.0	18.0	16.1	13.2	10.8	8.9	8.1	7.4
SSS-H-14-40-A	23.1	20.4	16.1	14.3	12.8	10.2	8.2	6.6	5.9	5.3
SSS-H-16-40-A	19.0	16.7	13.0	11.5	10.1	7.9	6.2	4.7	4.1	3.6
SSS-H-18-40-A	15.6	13.6	10.0	9.0	7.8	5.9	4.4	3.1	2.6	2.1
SSS-H-20-40-A	12.7	10.9	7.9	6.9	5.9	4.2	2.8	1.7	1.3	0.9
SSS-H-25-40-A	7.3	5.9	3.8	2.9	2.1	0.8	NR	NR	NR	NR
SSS-H-14-40-B	25.0	25.0	23.3	20.8	18.6	15.1	12.3	10.2	9.2	8.4
SSS-H-16-40-B	25.0	24.9	19.4	17.3	15.4	12.3	9.9	8.0	7.2	6.4
SSS-H-18-40-B	24.0	20.8	16.1	14.2	12.5	9.8	7.7	6.1	5.3	4.7
SSS-H-20-40-B	20.2	17.5	13.2	11.6	10.1	7.7	5.9	4.4	3.8	3.2
SSS-H-25-40-B	12.8	11.0	7.9	6.7	5.5	3.7	2.3	1.2	0.7	NR
SSS-H-30-40-B	8.0	6.6	4.1	3.1	2.2	0.8	NR	NR	NR	NR
SSS-H-16-50-B	25.0	25.0	25.0	25.0	24.8	20.1	16.5	13.6	12.3	11.2
SSS-H-18-50-B	25.0	25.0	25.0	22.9	20.4	16.4	13.2	10.7	9.6	8.6
SSS-H-20-50-B	25.0	25.0	21.3	18.9	16.7	13.2	10.4	8.1	7.2	6.3
SSS-H-25-50-B	20.7	17.8	13.3	11.5	9.8	7.2	5.0	3.3	2.6	1.9
SSS-H-30-50-B	13.5	11.3	7.7	6.2	4.9	2.8	1.1	NR	NR	NR
SSS-H-25-50-C	25.0	25.0	19.4	17.1	15.1	11.7	9.0	6.9	6.0	5.1
SSS-H-30-50-C	20.1	17.3	12.7	10.9	9.3	6.6	4.5	2.8	2.1	1.4
SSS-H-20-60-B	25.0	25.0	25.0	25.0	25.0	20.2	16.1	12.9	11.5	10.3
SSS-H-25-60-B	25.0	25.0	20.6	18.0	15.6	11.8	8.7	6.2	5.2	4.2
SSS-H-30-60-B	21.4	18.1	12.9	10.7	8.8	5.7	3.3	1.3	NR	NR
SSS-H-35-60-B	14.0	11.3	6.9	5.2	3.6	1.0	NR	NR	NR	NR
SSS-H-40-60-B	8.1	5.8	2.2	nr	NR	NR	NR	NR	NR	NR
SSS-H-30-60-C	24.3	20.5	14.6	12.2	10.2	6.8	4.2	2.2	1.3	0.5
SSS-H-35-60-C	16.6	13.5	8.6	6.6	4.9	2.1	NR	NR	NR	NR
SSS-H-40-60-C	10.6	7.9	3.7	2.1	0.6	NR	NR	NR	NR	NR

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds (Use for Florida only)								
Catalog Number	**115**	**120**	**130**	**140**	**150**	**160**	**170**	**180**
SSS-H-10-40-A	25.0	25.0	25.0	25.0	21.4	18.4	15.9	13.9
SSS-H-12-40-A	25.0	25.0	23.6	19.8	16.7	14.2	12.1	10.4
SSS-H-14-40-A	25.0	23.1	19.0	15.7	13.1	10.9	9.1	7.6
SSS-H-16-40-A	20.8	18.7	15.2	12.3	10.1	8.2	6.7	5.4
SSS-H-18-40-A	16.8	15.0	11.9	9.4	7.5	5.9	4.5	3.4
SSS-H-20-40-A	13.6	11.9	9.2	7.1	5.3	3.9	2.7	1.7
SSS-H-25-40-A	7.4	6.2	4.1	2.5	1.1	NR	NR	NR
SSS-H-14-40-B	25.0	23.6	19.4	16.1	13.4	11.2	9.4	7.8
SSS-H-16-40-B	21.4	19.2	15.6	12.7	10.4	8.5	6.9	5.6
SSS-H-18-40-B	17.2	15.4	12.2	9.7	7.7	6.1	4.7	3.6
SSS-H-20-40-B	13.9	12.3	9.5	7.3	5.5	4.1	2.9	1.9
SSS-H-25-40-B	7.7	6.4	4.3	2.6	1.3	NR	NR	NR
SSS-H-30-40-B	3.2	2.1	NR	NR	NR	NR	NR	NR
SSS-H-16-50-B	25.0	25.0	25.0	25.0	25.0	21.4	18.2	15.5
SSS-H-18-50-B	25.0	25.0	25.0	24.4	20.4	17.0	14.2	11.9
SSS-H-20-50-B	25.0	25.0	24.4	19.9	1 6.3	13.4	11.0	8.9
SSS-H-25-50-B	21.8	19.3	15.0	11.5	8.8	6.5	4.7	3.1
SSS-H-30-50-B	13.7	11.7	8.2	5.5	3.3	1.5	NR	NR
SSS-H-25-50-C	21.8	19.3	15.0	11.5	8.8	6.5	4.7	3.1
SSS-H-30-50-C	13.7	11.7	8.2	5.5	3.3	1.5	NR	NR
SSS-H-20-60-B	25.0	25.0	25.0	21.9	17.8	14.5	11.7	9.4
SSS-H-25-60-B	23.8	20.9	16.1	12.3	9.2	6.6	4.5	2.8
SSS-H-30-60-B	14.6	12.3	8.4	5.3	2.8	0.8	NR	NR
SSS-H-35-60-B	7.5	5.6	2.4	NR	NR	NR	NR	NR
SSS-H-40-60-B	1.8	NR	NR	NR	NR	NR	NR	NR
SSS-H-30-60-C	14.6	12.3	8.4	5.3	2.8	0.8	NR	NR
SSS-H-35-60-C	7.5	5.6	2.4	NR	NR	NR	NR	NR
SSS-H-40-60-C	1.8	NR	NR	NR	NR	NR	NR	NR

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NOTES

- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Hubbell Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations. https://hubbellcdn.com/ohwassets/HLI/outdoor/resources/literature/files/Pole_Wind_Induced_Flyer_HLOI0022.pdf
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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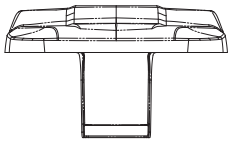
LEOTEK LITE-ON GROUP

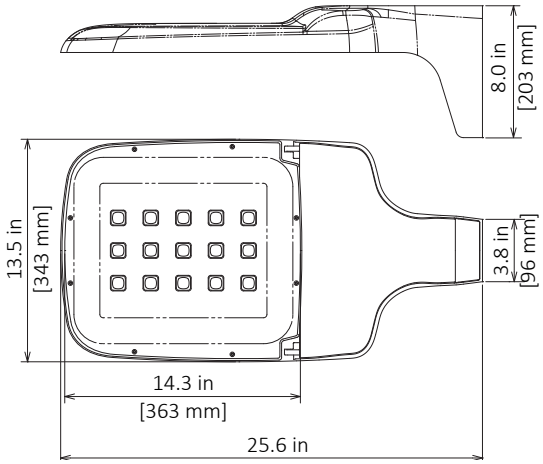
Project Y12
Type
Catalog No.

ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Luminaire Data

Weight 15.4 lbs [7 kg]
EPA 0.47 ft²





Ordering Information

Sample Catalog No. AR13 6M2 MV NW 5 BK 700 MSL3

Product	LED Code	Voltage	Nominal Color Temperature	Distribution	Finish[1]	Drive Current Code [2]	Options
AR13	**4M2** **6M2** **10M2** **15M2** **18M2** **20M2**	**MV** 120-277V **HV** 347-480V	**WW** 3000K **NW** 4000K **CW** 5000K	**2** Type 2 **3** Type 3 **4** Type 4 **5** Type 5	**BK** Black **DB** Dark Bronze **WH** White **GY** Gray **NA** Natural Aluminum	**350** **530** **700**	**HSS**[3] House Side Shield (Factory Installed) **FDC**[4] Fixed Drive Current **FFA**[5] Full Field Adjustability **PCR**[6] NEMA Photocontrol Receptacle **PCR7**[6] ANSI 7-wire Photocontrol Receptacle **PCR7-CR**[7] Control Ready 7-wire Photocontrol Receptacle **MSL7**[8] Motion Sensor with L7 Lens **MSL3**[8] Motion Sensor with L3 Lens **PND1**[9] Part-Night Dimming **PND2**[9] Part-Night Dimming **PND3**[9] Part-Night Dimming **ORR** Optics Rotated Right **ORL** Optics Rotated Left **WL** Utility Wattage Label

Notes:
1 Black, Dark Bronze, White, Gray, or Natural Aluminum standard. Consult factory for other finishes. See page 2 for specifications.
2 Specified drive current code is the factory set maximum drive current. Field adjustable current selector enables standard dimming to lower wattage drive currents only. Consult factory if wattage limits require a special drive current.
3 Flush mounted shield factory installed, also available for field installion. House Side Shield cuts light off at 1/2 mounting height behind luminaire.
4 Non-field adjustable drive current. Specify 350mA, 530mA or 700mA setting.
5 The FFA option enables full field adjustability from the specified drive current code to all drive currents available. This option is not DLC qualified.
6 Field adjustable current selector included to enable standard dimming to lower wattage drive currents only. Field changeable connectors included to enable connection to PCR7 (wireless node dimming is disabled by default).
7 Control-ready wired at factory for wireless node dimming. Supplied at maximum drive current. If lower drive current is required, consult factory.
8 Motion Sensor available with MV. See L7 or L3 Lens coverage details on page 5. Consult factory for MS specified with ANSI 7-wire Photocontrol Receptacle. PCR option is required for On/Off control using light detection.
9 For PND profile options see page 6. Only available with MV (120-277V).
10 Specify Color (GY, DB, BK, WH, NA)
11 Specify MV (120-277V) or HV (347V or 480V)

Accessories*	
HSSAR13[3,10]	House Side Shield
RPA[10]	Round Pole Adapter
PTF1[10]	Square Pole Top Fitter Single
PTF2[10]	Square Pole Top Fitter Twin at 180°
PTF4[10]	Square Pole Top Fitter Quad
WM[10]	Wall Mount
BSK	Bird Deterrent Spider Kit
LLPC[11]	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap
FSIR100	Motion Sensor Configuration Tool

*Accessories are ordered separately and not to be included in the catalog number

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ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Luminaire Specifications

Housing
Die cast aluminum housing with universal mounting design allows for attachment to existing pole without redrilling for retrofit applications. Aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass. Electrical components are accessed without tools and are mounted on removable power door.

Light Emitting Diodes
Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21. LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 3000K (WW), 4000K (NW), or 5000K (CW) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Field Adjustability
LED drive current can be changed in the field to adjust light output for local conditions (not available with PCR7-CR option). The specified drive current code will be the factory set maximum drive current and field adjustments can only be made to available lower wattage drive currents. Select the FFA option if full field adjustability to all available drive currents (700mA max) is desired. The FFA option is not DLC qualified.

Quality Control
Every luminaire is performance tested before and after a 2-hour burn-in period. Assembled in the USA.

Optical Systems
Micro-lens optical systems produce IESNA Type 2, Type 3, Type 4 or Type 5 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0). Optional house side shield (HSS) cuts light off at 1/2 mounting height behind luminaire. Optics may be rotated right or left with options ORR/ORL, respectively.

Electrical
Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 6 to 14 gauge wire. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA and ANSI C136.2-2015, 20kV/10kA.

Controls
3-Wire photocontrol receptacle (PCR) is available. ANSI C136.41 7-wire (PCR7) photocontrol receptacles are available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish
Housing receives a fade and abrasion resistant polyester powder coat finish with 3.0 mil nominal thickness. Finish tested to withstand 5000 hours in salt spray exposure per ASTM B117. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels
Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified product. Consult DLC QPL for Standard and Premium Classification Listings. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C.

Photometry
Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty
10-year limited warranty is standard on luminaire and components. 5-year limited warranty on luminaires and components with a motion sensor.

Standards
Luminaire complies with:

ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77

Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449, UL 1598

Color Specifications

Order Code	Color	RAL #	Pantone Equivalent
GY	Gray	7040	429C
BK	Black	9004	426C
DB	Dark Bronze	6022	BLACK 2C
WH	White	9003	11-0601
NA	Natural Aluminum	9006	N/A

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ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Performance Data 3000K (WW)

All data nominal. IES files are available at leotek.com.

			Type 2, 3, 4		Type 5	
LED Code	**Current Code**	**System Wattage (W)**	**Delivered Lumens (Lm)[1]**	**Efficacy (Lm/W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**
4M2	350	20	2000	100	1930	96
	530	28	2720	97	2630	94
	700	36	3410	94	3300	91
6M2	350	29	2930	101	2750	95
	530	41	4110	99	3860	93
	700	54	5040	94	4950	92
10M2	350	41	4600	112	4500	109
	530	63	6700	106	6600	104
	700	87	8500	97	8400	96
15M2	350	63	7400	117	7300	116
	530	90	9600	107	9500	106
	700	124	12900	104	12700	102
18M2	350	81	9000	111	9100	112
	530	122	12800	105	13000	107
	700	160	16400	103	16700	104
20M2	350	84	10700	127	10800	129
	530	132	15300	116	15500	117
	700	172	18200	106	18500	108

Notes:
1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance, and ambient temperatures.

Performance Data 4000K (NW) & 5000K (CW)

All data nominal. IES files are available at leotek.com.

			Type 2, 3, 4		Type 5	
LED Code	**Current Code**	**System Wattage (W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**
4M2	350	20	2330	116	2290	114
	530	28	3170	113	3110	111
	700	36	3990	111	3920	109
6M2	350	29	3490	120	3480	120
	530	41	4810	116	4850	117
	700	54	5980	111	5880	109
10M2	350	41	5400	132	5300	129
	530	63	7800	124	7700	122
	700	87	10000	115	9800	113
15M2	350	63	8400	133	8300	132
	530	90	11500	128	11300	126
	700	124	15000	121	14700	119
18M2	350	81	9600	119	9700	120
	530	122	13700	112	13900	114
	700	160	17500	109	17800	111
20M2	350	84	10600	126	10800	129
	530	132	15200	115	15500	117
	700	172	19500	114	19800	115

Notes:
1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance, and ambient temperatures.

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BUG Ratings: 3000K (WW)

All data nominal. IES files for all CCTs are available at leotek.com.

LED Code	Current Code	Type 2	Type 3	Type 4	Type 5
4M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G0	B1 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
6M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
10M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	530	B1 U0 G1	B1 U0 G1	B2 U0 G1	B3 U0 G1
	700	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
15M2	350	B1 U0 G1	B1 U0 G2	B2 U0 G2	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	700	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
18M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
20M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B3 U0 G3	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G3	B3 U0 G2	B4 U0 G2

BUG Ratings: 4000K (NW) & 5000K (CW)

All data nominal. IES files for all CCTs are available at leotek.com.

LED Code	Current Code	Type 2	Type 3	Type 4	Type 5
4M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G0	B1 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
6M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
10M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
	700	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
15M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	700	B2 U0 G2*	B2 U0 G2	B3 U0 G2	B4 U0 G2
18M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G2*	B3 U0 G2	B4 U0 G2
20M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2*	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G3	B3 U0 G3	B4 U0 G2

* These BUG ratings are slightly different for 5000K (CW). Refer to IES files for actual CW rating.

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Motion Sensor (Optional) Specifications

Description
Digital passive infrared luminaire integrated outdoor occupancy sensor provides high/low/off control based on motion detection. Initial setup and subsequent sensor adjustments are made using a handheld configuration tool. PCR option is required for On/Off control using light detection. Available with MV input voltage only.

Operation
Standard factory setting will dim the luminaire to 50% until motion is sensed and then it will power to 100%. When motion is not detected for five minutes, the luminaire will dim back to 50%. Ramp up and fade down times are adjustable, but initially set to NONE. The percent dimming and time durations may be field adjusted as required using FSIR-100 configuration tool. FSIR-100 user guide available at: www.wattstopper.com.

Optical System
Multi-cell, multi-tier Fresnel lens with a 360 degree view detects unobstructed motion within one mounting height, up to 20 ft. maximum (MSL3) or 40 ft. maximum (MSL7). Consult factory for higher mounting height requirements.

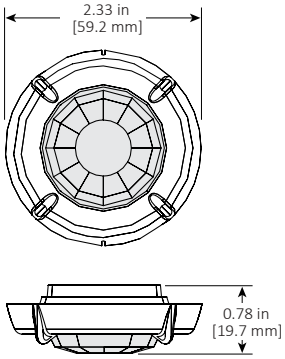
Finish
Sensor exterior ring and lens are white polycarbonate, UV and impact resistant.

Listings/Ratings
Sensor is TUV, UL and cUL listed, IP66 rated and CE compliant.

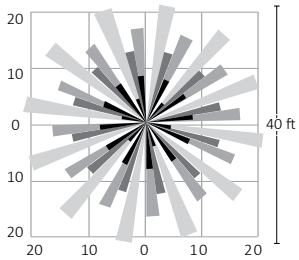
Warranty
5-year limited warranty on luminaires and components with a motion sensor.

Motion Sensor (Optional) Data

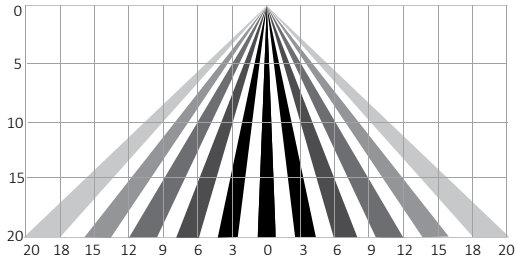
MSL3 Lens Dimensions



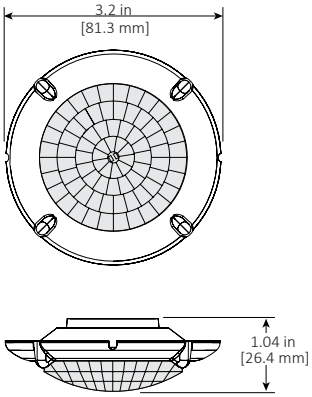
MSL3 Lens Coverage Top View



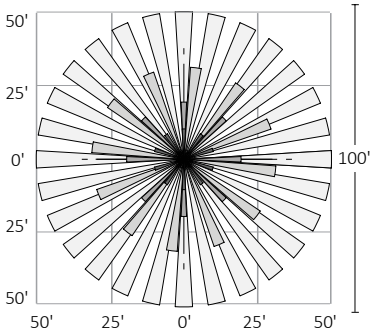
MSL3 Lens Coverage Side View



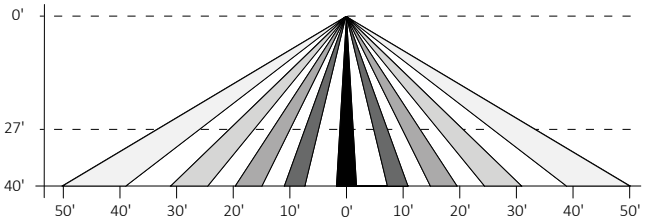
MSL7 Lens Dimensions



MSL7 Lens Coverage Top View



MSL7 Lens Coverage Side View



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Part-Night Dimming Specifications

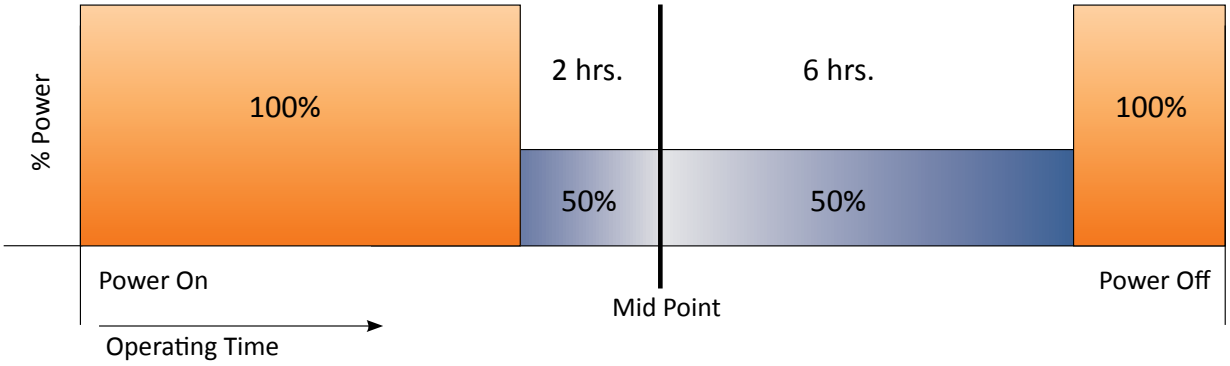
Description

Arieta's Part-Night Dimming (PND) option enables significant energy savings by automatically dimming the luminaire during early morning hours when infrequent use is expected. Factory programmed dimming profiles automatically take into account seasonal changes based on geographical location by continuously monitoring the nighttime midpoint. This option is fully compatible with photocells and time clock devices, but is not field adjustable.

Operation

Based on the PND profile that is selected, the luminaire dims to the corresponding % power for the corresponding length of time (based on the nighttime mid-point) as shown below. Mid-point is continuously recalculated in the luminaire by monitoring the average length of time between when the light turns on (power on) and turns off (power off) over the previous two days. In effect, this functionality will take two days to initialize after installation before any dimming will occur. Power interruptions are ignored and do not affect the determination of mid-point. A motion sensor (MSL3 or MSL7) can be used with PND to temporarily override the dimming profile when motion is detected. Three factory programmed PND profiles are available for selection:

PND1



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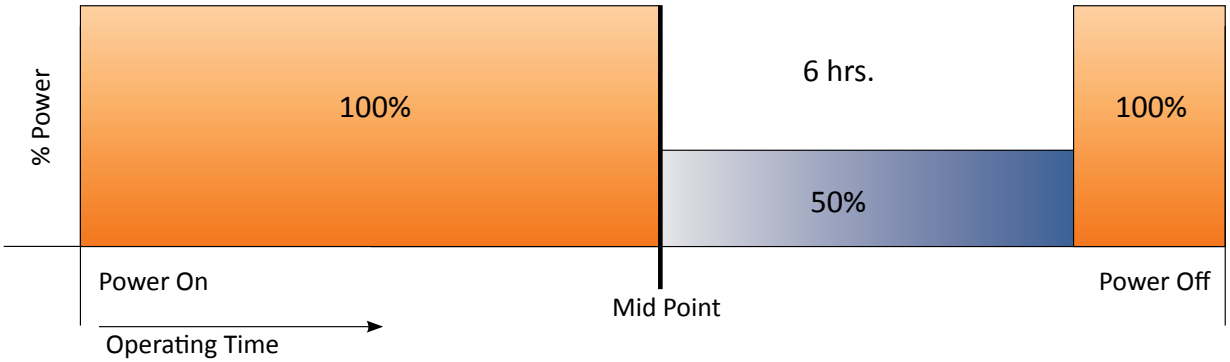
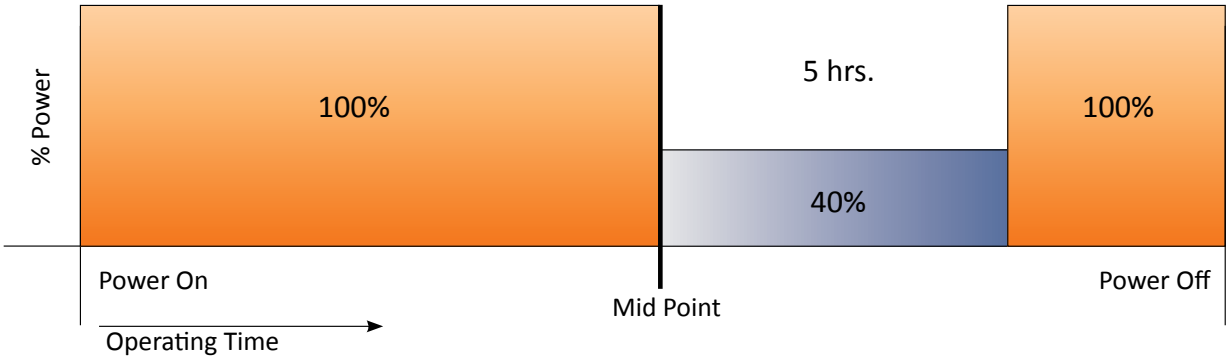


PND3



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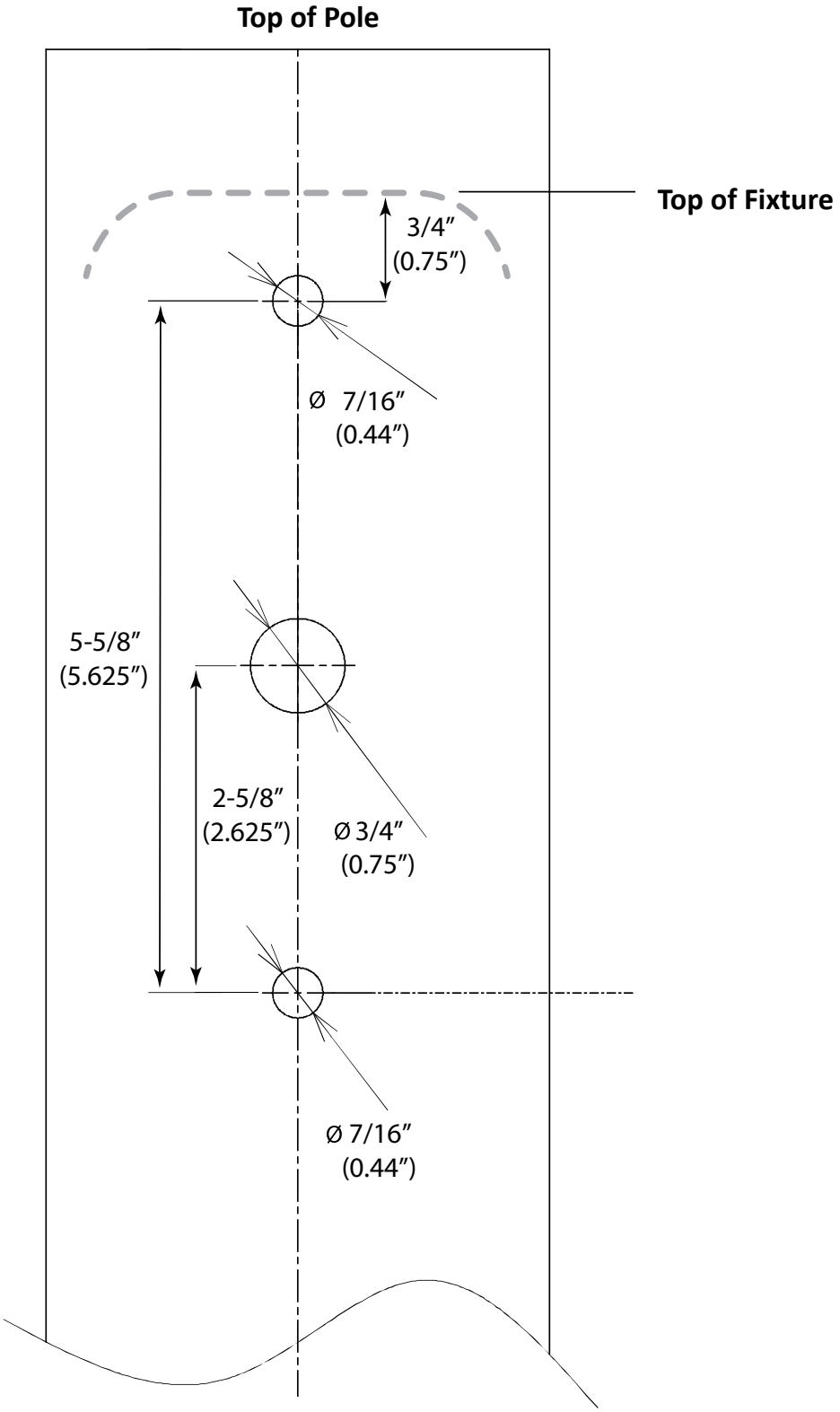
Pole Mount Drilling Dimensions for New Construction
For more details, consult the Arieta Instllation Guide



Mounting Pole Drilling Dimensions
for New Construction

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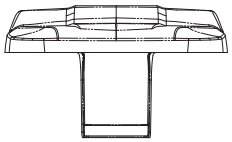
LEOTEK LITE-ON GROUP

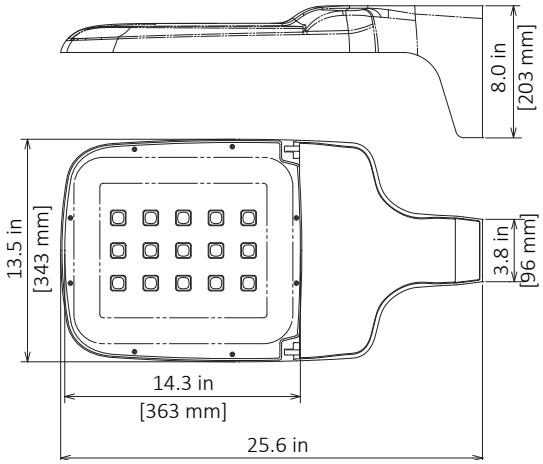
Project Y14
Type
Catalog No.

ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Luminaire Data

Weight 15.4 lbs [7 kg]
EPA 0.47 ft²





Ordering Information

Sample Catalog No. AR13 6M2 MV NW 5 BK 700 MSL3

Product	LED Code	Voltage	Nominal Color Temperature	Distribution	Finish[1]	Drive Current Code [2]	Options
AR13	**4M2** **6M2** **10M2** **15M2** **18M2** **20M2**	**MV** 120-277V **HV** 347-480V	**WW** 3000K **NW** 4000K **CW** 5000K	**2** Type 2 **3** Type 3 **4** Type 4 **5** Type 5	**BK** Black **DB** Dark Bronze **WH** White **GY** Gray **NA** Natural Aluminum	**350** **530** **700**	**HSS**[3] House Side Shield (Factory Installed) **FDC**[4] Fixed Drive Current **FFA**[5] Full Field Adjustability **PCR**[6] NEMA Photocontrol Receptacle **PCR7**[6] ANSI 7-wire Photocontrol Receptacle **PCR7-CR**[7] Control Ready 7-wire Photocontrol Receptacle **MSL7**[8] Motion Sensor with L7 Lens **MSL3**[8] Motion Sensor with L3 Lens **PND1**[9] Part-Night Dimming **PND2**[9] Part-Night Dimming **PND3**[9] Part-Night Dimming **ORR** Optics Rotated Right **ORL** Optics Rotated Left **WL** Utility Wattage Label

Notes:
1 Black, Dark Bronze, White, Gray, or Natural Aluminum standard. Consult factory for other finishes. See page 2 for specifications.
2 Specified drive current code is the factory set maximum drive current. Field adjustable current selector enables standard dimming to lower wattage drive currents only. Consult factory if wattage limits require a special drive current.
3 Flush mounted shield factory installed, also available for field installion. House Side Shield cuts light off at 1/2 mounting height behind luminaire.
4 Non-field adjustable drive current. Specify 350mA, 530mA or 700mA setting.
5 The FFA option enables full field adjustability from the specified drive current code to all drive currents available. This option is not DLC qualified.
6 Field adjustable current selector included to enable standard dimming to lower wattage drive currents only. Field changeable connectors included to enable connection to PCR7 (wireless node dimming is disabled by default).
7 Control-ready wired at factory for wireless node dimming. Supplied at maximum drive current. If lower drive current is required, consult factory.
8 Motion Sensor available with MV. See L7 or L3 Lens coverage details on page 5. Consult factory for MS specified with ANSI 7-wire Photocontrol Receptacle. PCR option is required for On/Off control using light detection.
9 For PND profile options see page 6. Only available with MV (120-277V).
10 Specify Color (GY, DB, BK, WH, NA)
11 Specify MV (120-277V) or HV (347V or 480V)

Accessories*	
HSSAR13[3,10]	House Side Shield
RPA[10]	Round Pole Adapter
PTF1[10]	Square Pole Top Fitter Single
PTF2[10]	Square Pole Top Fitter Twin at 180°
PTF4[10]	Square Pole Top Fitter Quad
WM[10]	Wall Mount
BSK	Bird Deterrent Spider Kit
LLPC[11]	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap
FSIR100	Motion Sensor Configuration Tool

*Accessories are ordered separately and not to be included in the catalog number

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ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Luminaire Specifications

Housing
Die cast aluminum housing with universal mounting design allows for attachment to existing pole without redrilling for retrofit applications. Aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass. Electrical components are accessed without tools and are mounted on removable power door.

Light Emitting Diodes
Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21. LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 3000K (WW), 4000K (NW), or 5000K (CW) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Field Adjustability
LED drive current can be changed in the field to adjust light output for local conditions (not available with PCR7-CR option). The specified drive current code will be the factory set maximum drive current and field adjustments can only be made to available lower wattage drive currents. Select the FFA option if full field adjustability to all available drive currents (700mA max) is desired. The FFA option is not DLC qualified.

Quality Control
Every luminaire is performance tested before and after a 2-hour burn-in period. Assembled in the USA.

Optical Systems
Micro-lens optical systems produce IESNA Type 2, Type 3, Type 4 or Type 5 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0). Optional house side shield (HSS) cuts light off at 1/2 mounting height behind luminaire. Optics may be rotated right or left with options ORR/ORL, respectively.

Electrical
Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 6 to 14 gauge wire. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA and ANSI C136.2-2015, 20kV/10kA.

Controls
3-Wire photocontrol receptacle (PCR) is available. ANSI C136.41 7-wire (PCR7) photocontrol receptacles are available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish
Housing receives a fade and abrasion resistant polyester powder coat finish with 3.0 mil nominal thickness. Finish tested to withstand 5000 hours in salt spray exposure per ASTM B117. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels
Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified product. Consult DLC QPL for Standard and Premium Classification Listings. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C.

Photometry
Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty
10-year limited warranty is standard on luminaire and components. 5-year limited warranty on luminaires and components with a motion sensor.

Standards
Luminaire complies with:

ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77

Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449, UL 1598

Color Specifications

Order Code	Color	RAL #	Pantone Equivalent
GY	Gray	7040	429C
BK	Black	9004	426C
DB	Dark Bronze	6022	BLACK 2C
WH	White	9003	11-0601
NA	Natural Aluminum	9006	N/A

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ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Performance Data 3000K (WW)

All data nominal. IES files are available at leotek.com.

			Type 2, 3, 4		Type 5	
LED Code	**Current Code**	**System Wattage (W)**	**Delivered Lumens (Lm)[1]**	**Efficacy (Lm/W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**
4M2	350	20	2000	100	1930	96
	530	28	2720	97	2630	94
	700	36	3410	94	3300	91
6M2	350	29	2930	101	2750	95
	530	41	4110	99	3860	93
	700	54	5040	94	4950	92
10M2	350	41	4600	112	4500	109
	530	63	6700	106	6600	104
	700	87	8500	97	8400	96
15M2	350	63	7400	117	7300	116
	530	90	9600	107	9500	106
	700	124	12900	104	12700	102
18M2	350	81	9000	111	9100	112
	530	122	12800	105	13000	107
	700	160	16400	103	16700	104
20M2	350	84	10700	127	10800	129
	530	132	15300	116	15500	117
	700	172	18200	106	18500	108

Notes:
1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance, and ambient temperatures.

Performance Data 4000K (NW) & 5000K (CW)

All data nominal. IES files are available at leotek.com.

			Type 2, 3, 4		Type 5	
LED Code	**Current Code**	**System Wattage (W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**
4M2	350	20	2330	116	2290	114
	530	28	3170	113	3110	111
	700	36	3990	111	3920	109
6M2	350	29	3490	120	3480	120
	530	41	4810	116	4850	117
	700	54	5980	111	5880	109
10M2	350	41	5400	132	5300	129
	530	63	7800	124	7700	122
	700	87	10000	115	9800	113
15M2	350	63	8400	133	8300	132
	530	90	11500	128	11300	126
	700	124	15000	121	14700	119
18M2	350	81	9600	119	9700	120
	530	122	13700	112	13900	114
	700	160	17500	109	17800	111
20M2	350	84	10600	126	10800	129
	530	132	15200	115	15500	117
	700	172	19500	114	19800	115

Notes:
1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance, and ambient temperatures.

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BUG Ratings: 3000K (WW)

All data nominal. IES files for all CCTs are available at leotek.com.

LED Code	Current Code	Type 2	Type 3	Type 4	Type 5
4M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G0	B1 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
6M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
10M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	530	B1 U0 G1	B1 U0 G1	B2 U0 G1	B3 U0 G1
	700	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
15M2	350	B1 U0 G1	B1 U0 G2	B2 U0 G2	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	700	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
18M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
20M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B3 U0 G3	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G3	B3 U0 G2	B4 U0 G2

BUG Ratings: 4000K (NW) & 5000K (CW)

All data nominal. IES files for all CCTs are available at leotek.com.

LED Code	Current Code	Type 2	Type 3	Type 4	Type 5
4M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G0	B1 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
6M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
10M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
	700	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
15M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	700	B2 U0 G2*	B2 U0 G2	B3 U0 G2	B4 U0 G2
18M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G2*	B3 U0 G2	B4 U0 G2
20M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2*	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G3	B3 U0 G3	B4 U0 G2

* These BUG ratings are slightly different for 5000K (CW). Refer to IES files for actual CW rating.

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Motion Sensor (Optional) Specifications

Description
Digital passive infrared luminaire integrated outdoor occupancy sensor provides high/low/off control based on motion detection. Initial setup and subsequent sensor adjustments are made using a handheld configuration tool. PCR option is required for On/Off control using light detection. Available with MV input voltage only.

Operation
Standard factory setting will dim the luminaire to 50% until motion is sensed and then it will power to 100%. When motion is not detected for five minutes, the luminaire will dim back to 50%. Ramp up and fade down times are adjustable, but initially set to NONE. The percent dimming and time durations may be field adjusted as required using FSIR-100 configuration tool. FSIR-100 user guide available at: www.wattstopper.com.

Optical System
Multi-cell, multi-tier Fresnel lens with a 360 degree view detects unobstructed motion within one mounting height, up to 20 ft. maximum (MSL3) or 40 ft. maximum (MSL7). Consult factory for higher mounting height requirements.

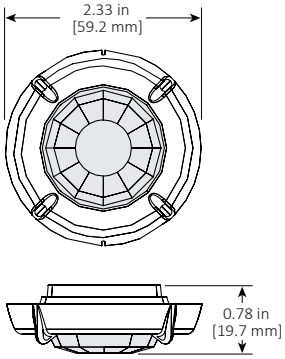
Finish
Sensor exterior ring and lens are white polycarbonate, UV and impact resistant.

Listings/Ratings
Sensor is TUV, UL and cUL listed, IP66 rated and CE compliant.

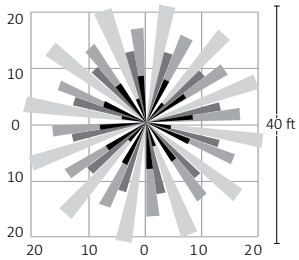
Warranty
5-year limited warranty on luminaires and components with a motion sensor.

Motion Sensor (Optional) Data

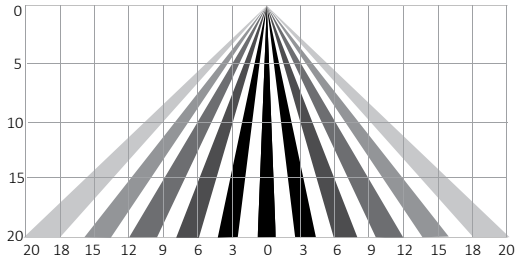
MSL3 Lens Dimensions



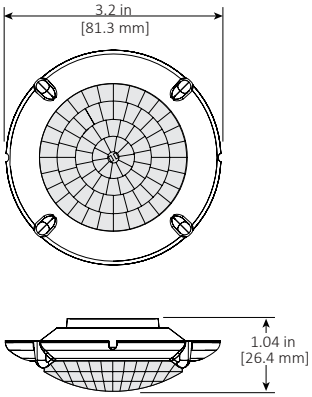
MSL3 Lens Coverage Top View



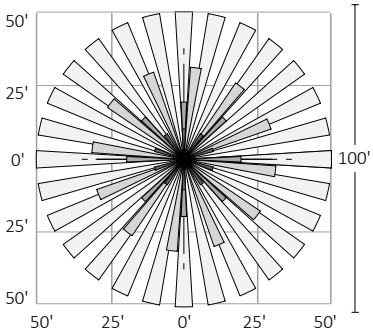
MSL3 Lens Coverage Side View



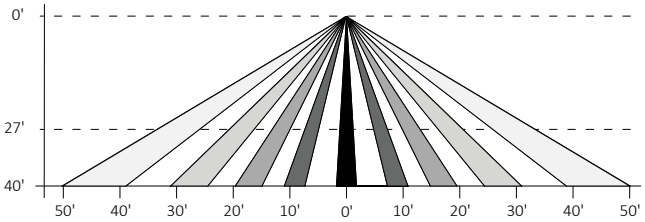
MSL7 Lens Dimensions



MSL7 Lens Coverage Top View



MSL7 Lens Coverage Side View



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Part-Night Dimming Specifications

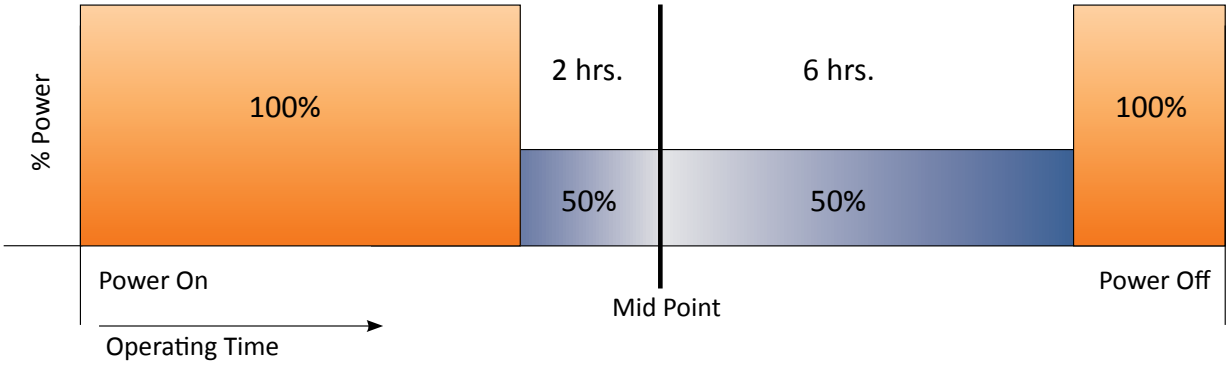
Description

Arieta's Part-Night Dimming (PND) option enables significant energy savings by automatically dimming the luminaire during early morning hours when infrequent use is expected. Factory programmed dimming profiles automatically take into account seasonal changes based on geographical location by continuously monitoring the nighttime midpoint. This option is fully compatible with photocells and time clock devices, but is not field adjustable.

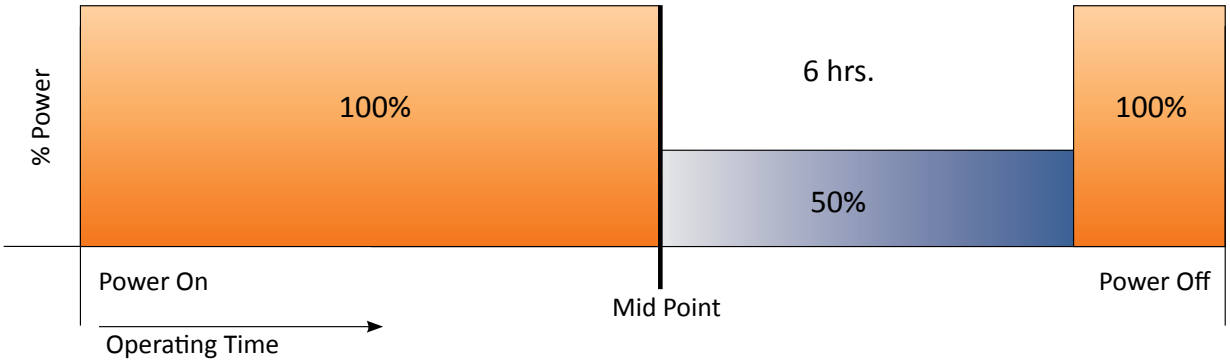
Operation

Based on the PND profile that is selected, the luminaire dims to the corresponding % power for the corresponding length of time (based on the nighttime mid-point) as shown below. Mid-point is continuously recalculated in the luminaire by monitoring the average length of time between when the light turns on (power on) and turns off (power off) over the previous two days. In effect, this functionality will take two days to initialize after installation before any dimming will occur. Power interruptions are ignored and do not affect the determination of mid-point. A motion sensor (MSL3 or MSL7) can be used with PND to temporarily override the dimming profile when motion is detected. Three factory programmed PND profiles are available for selection:

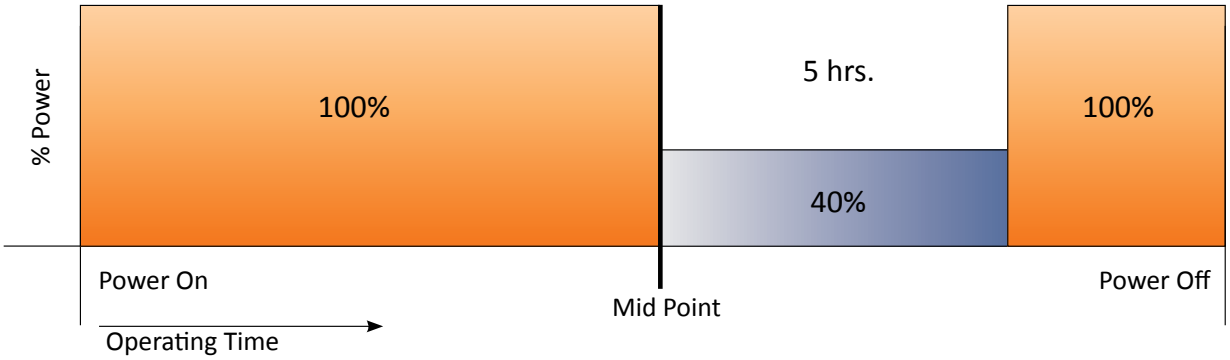
PND1



PND2



PND3



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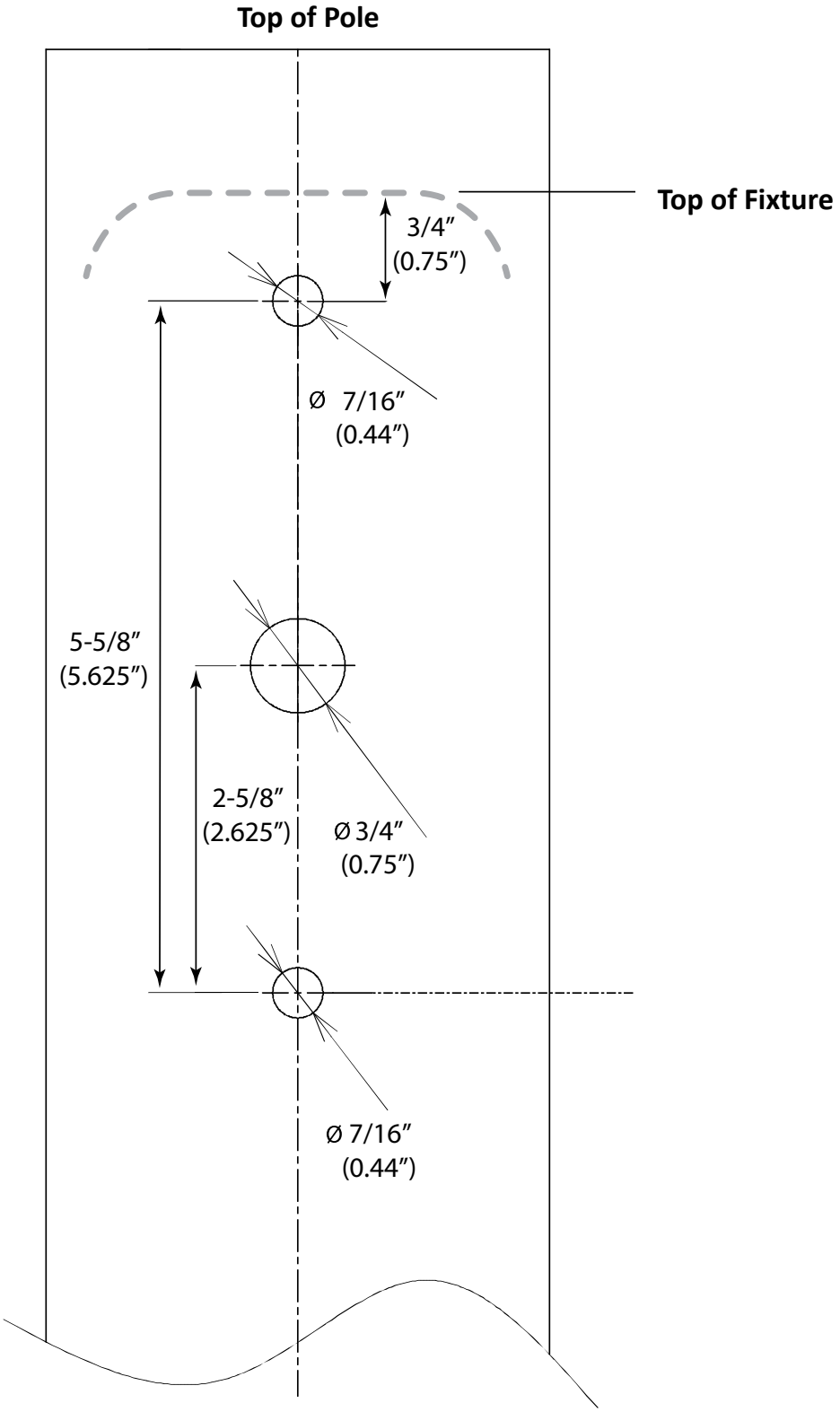
Pole Mount Drilling Dimensions for New Construction
For more details, consult the Arieta Instllation Guide



Mounting Pole Drilling Dimensions
for New Construction

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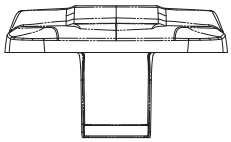
LEOTEK LITE-ON GROUP

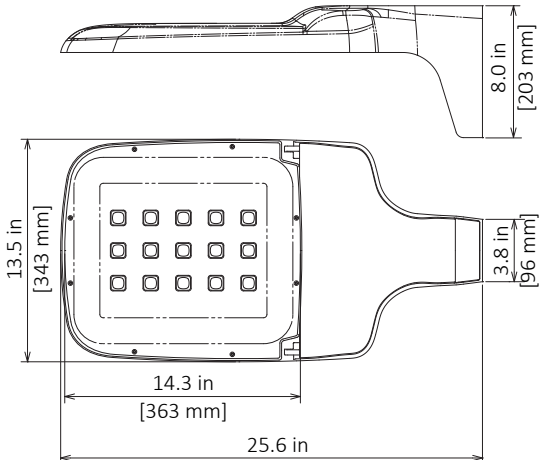
Project Y25 Twin @ 180
Type
Catalog No.

ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Luminaire Data

Weight 15.4 lbs [7 kg]
EPA 0.47 ft²





Ordering Information

Sample Catalog No. AR13 6M2 MV NW 5 BK 700 MSL3

Product	LED Code	Voltage	Nominal Color Temperature	Distribution	Finish[1]	Drive Current Code [2]	Options
AR13	**4M2** **6M2** **10M2** **15M2** **18M2** **20M2**	**MV** 120-277V **HV** 347-480V	**WW** 3000K **NW** 4000K **CW** 5000K	**2** Type 2 **3** Type 3 **4** Type 4 **5** Type 5	**BK** Black **DB** Dark Bronze **WH** White **GY** Gray **NA** Natural Aluminum	**350** **530** **700**	**HSS**[3] House Side Shield (Factory Installed) **FDC**[4] Fixed Drive Current **FFA**[5] Full Field Adjustability **PCR**[6] NEMA Photocontrol Receptacle **PCR7**[6] ANSI 7-wire Photocontrol Receptacle **PCR7-CR**[7] Control Ready 7-wire Photocontrol Receptacle **MSL7**[8] Motion Sensor with L7 Lens **MSL3**[8] Motion Sensor with L3 Lens **PND1**[9] Part-Night Dimming **PND2**[9] Part-Night Dimming **PND3**[9] Part-Night Dimming **ORR** Optics Rotated Right **ORL** Optics Rotated Left **WL** Utility Wattage Label

Notes:
1 Black, Dark Bronze, White, Gray, or Natural Aluminum standard. Consult factory for other finishes. See page 2 for specifications.
2 Specified drive current code is the factory set maximum drive current. Field adjustable current selector enables standard dimming to lower wattage drive currents only. Consult factory if wattage limits require a special drive current.
3 Flush mounted shield factory installed, also available for field installion. House Side Shield cuts light off at 1/2 mounting height behind luminaire.
4 Non-field adjustable drive current. Specify 350mA, 530mA or 700mA setting.
5 The FFA option enables full field adjustability from the specified drive current code to all drive currents available. This option is not DLC qualified.
6 Field adjustable current selector included to enable standard dimming to lower wattage drive currents only. Field changeable connectors included to enable connection to PCR7 (wireless node dimming is disabled by default).
7 Control-ready wired at factory for wireless node dimming. Supplied at maximum drive current. If lower drive current is required, consult factory.
8 Motion Sensor available with MV. See L7 or L3 Lens coverage details on page 5. Consult factory for MS specified with ANSI 7-wire Photocontrol Receptacle. PCR option is required for On/Off control using light detection.
9 For PND profile options see page 6. Only available with MV (120-277V).
10 Specify Color (GY, DB, BK, WH, NA)
11 Specify MV (120-277V) or HV (347V or 480V)

Accessories*	
HSSAR13[3,10]	House Side Shield
RPA[10]	Round Pole Adapter
PTF1[10]	Square Pole Top Fitter Single
PTF2[10]	Square Pole Top Fitter Twin at 180°
PTF4[10]	Square Pole Top Fitter Quad
WM[10]	Wall Mount
BSK	Bird Deterrent Spider Kit
LLPC[11]	Long-Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap
FSIR100	Motion Sensor Configuration Tool

*Accessories are ordered separately and not to be included in the catalog number

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ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Luminaire Specifications

Housing
Die cast aluminum housing with universal mounting design allows for attachment to existing pole without redrilling for retrofit applications. Aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass. Electrical components are accessed without tools and are mounted on removable power door.

Light Emitting Diodes
Hi-flux/Hi-power white LEDs produce a minimum of 90% of initial intensity at 100,000 hours of life based on IES TM-21. LEDs are tested in accordance with IES LM-80 testing procedures. LEDs have correlated color temperature of 3000K (WW), 4000K (NW), or 5000K (CW) and 70 CRI minimum. LEDs are 100% mercury and lead free.

Field Adjustability
LED drive current can be changed in the field to adjust light output for local conditions (not available with PCR7-CR option). The specified drive current code will be the factory set maximum drive current and field adjustments can only be made to available lower wattage drive currents. Select the FFA option if full field adjustability to all available drive currents (700mA max) is desired. The FFA option is not DLC qualified.

Quality Control
Every luminaire is performance tested before and after a 2-hour burn-in period. Assembled in the USA.

Optical Systems
Micro-lens optical systems produce IESNA Type 2, Type 3, Type 4 or Type 5 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0). Optional house side shield (HSS) cuts light off at 1/2 mounting height behind luminaire. Optics may be rotated right or left with options ORR/ORL, respectively.

Electrical
Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 6 to 14 gauge wire. Surge protection complies with IEEE/ANSI C62.41 Category C High, 20kV/10kA and ANSI C136.2-2015, 20kV/10kA.

Controls
3-Wire photocontrol receptacle (PCR) is available. ANSI C136.41 7-wire (PCR7) photocontrol receptacles are available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish
Housing receives a fade and abrasion resistant polyester powder coat finish with 3.0 mil nominal thickness. Finish tested to withstand 5000 hours in salt spray exposure per ASTM B117. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels
Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified product. Consult DLC QPL for Standard and Premium Classification Listings. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C.

Photometry
Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty
10-year limited warranty is standard on luminaire and components. 5-year limited warranty on luminaires and components with a motion sensor.

Standards
Luminaire complies with:

ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77

Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449, UL 1598

Color Specifications

Order Code	Color	RAL #	Pantone Equivalent
GY	Gray	7040	429C
BK	Black	9004	426C
DB	Dark Bronze	6022	BLACK 2C
WH	White	9003	11-0601
NA	Natural Aluminum	9006	N/A

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ARIETA™13 Architectural LED Area Luminaire
AR13 M2 Series Specification Data Sheet

Performance Data 3000K (WW)

All data nominal. IES files are available at leotek.com.

			Type 2, 3, 4		Type 5	
LED Code	**Current Code**	**System Wattage (W)**	**Delivered Lumens (Lm)[1]**	**Efficacy (Lm/W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**
4M2	350	20	2000	100	1930	96
	530	28	2720	97	2630	94
	700	36	3410	94	3300	91
6M2	350	29	2930	101	2750	95
	530	41	4110	99	3860	93
	700	54	5040	94	4950	92
10M2	350	41	4600	112	4500	109
	530	63	6700	106	6600	104
	700	87	8500	97	8400	96
15M2	350	63	7400	117	7300	116
	530	90	9600	107	9500	106
	700	124	12900	104	12700	102
18M2	350	81	9000	111	9100	112
	530	122	12800	105	13000	107
	700	160	16400	103	16700	104
20M2	350	84	10700	127	10800	129
	530	132	15300	116	15500	117
	700	172	18200	106	18500	108

Notes:
1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance, and ambient temperatures.

Performance Data 4000K (NW) & 5000K (CW)

All data nominal. IES files are available at leotek.com.

			Type 2, 3, 4		Type 5	
LED Code	**Current Code**	**System Wattage (W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**	**Delivered Lumens (Lm) [1]**	**Efficacy (Lm/W)**
4M2	350	20	2330	116	2290	114
	530	28	3170	113	3110	111
	700	36	3990	111	3920	109
6M2	350	29	3490	120	3480	120
	530	41	4810	116	4850	117
	700	54	5980	111	5880	109
10M2	350	41	5400	132	5300	129
	530	63	7800	124	7700	122
	700	87	10000	115	9800	113
15M2	350	63	8400	133	8300	132
	530	90	11500	128	11300	126
	700	124	15000	121	14700	119
18M2	350	81	9600	119	9700	120
	530	122	13700	112	13900	114
	700	160	17500	109	17800	111
20M2	350	84	10600	126	10800	129
	530	132	15200	115	15500	117
	700	172	19500	114	19800	115

Notes:
1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance, and ambient temperatures.

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BUG Ratings: 3000K (WW)

All data nominal. IES files for all CCTs are available at leotek.com.

LED Code	Current Code	Type 2	Type 3	Type 4	Type 5
4M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G0	B1 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
6M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
10M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	530	B1 U0 G1	B1 U0 G1	B2 U0 G1	B3 U0 G1
	700	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
15M2	350	B1 U0 G1	B1 U0 G2	B2 U0 G2	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	700	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
18M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
20M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B3 U0 G3	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G3	B3 U0 G2	B4 U0 G2

BUG Ratings: 4000K (NW) & 5000K (CW)

All data nominal. IES files for all CCTs are available at leotek.com.

LED Code	Current Code	Type 2	Type 3	Type 4	Type 5
4M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G0	B1 U0 G0
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G0
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
6M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B2 U0 G1
	530	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
	700	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
10M2	350	B1 U0 G1	B1 U0 G1	B1 U0 G1	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
	700	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
15M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G1
	530	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	700	B2 U0 G2*	B2 U0 G2	B3 U0 G2	B4 U0 G2
18M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G2*	B3 U0 G2	B4 U0 G2
20M2	350	B2 U0 G2	B2 U0 G2	B2 U0 G2	B3 U0 G2
	530	B2 U0 G2*	B2 U0 G2	B3 U0 G2	B4 U0 G2
	700	B3 U0 G3	B3 U0 G3	B3 U0 G3	B4 U0 G2

* These BUG ratings are slightly different for 5000K (CW). Refer to IES files for actual CW rating.

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Motion Sensor (Optional) Specifications

Description
Digital passive infrared luminaire integrated outdoor occupancy sensor provides high/low/off control based on motion detection. Initial setup and subsequent sensor adjustments are made using a handheld configuration tool. PCR option is required for On/Off control using light detection. Available with MV input voltage only.

Operation
Standard factory setting will dim the luminaire to 50% until motion is sensed and then it will power to 100%. When motion is not detected for five minutes, the luminaire will dim back to 50%. Ramp up and fade down times are adjustable, but initially set to NONE. The percent dimming and time durations may be field adjusted as required using FSIR-100 configuration tool. FSIR-100 user guide available at: www.wattstopper.com.

Optical System
Multi-cell, multi-tier Fresnel lens with a 360 degree view detects unobstructed motion within one mounting height, up to 20 ft. maximum (MSL3) or 40 ft. maximum (MSL7). Consult factory for higher mounting height requirements.

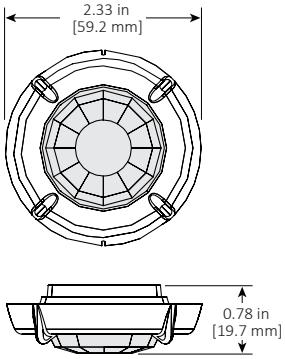
Finish
Sensor exterior ring and lens are white polycarbonate, UV and impact resistant.

Listings/Ratings
Sensor is TUV, UL and cUL listed, IP66 rated and CE compliant.

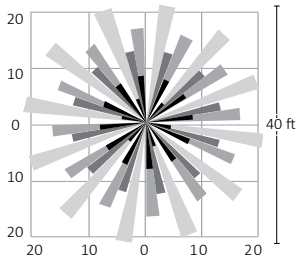
Warranty
5-year limited warranty on luminaires and components with a motion sensor.

Motion Sensor (Optional) Data

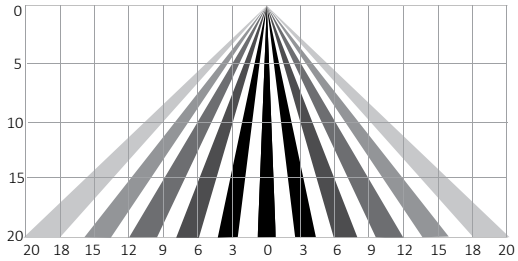
MSL3 Lens Dimensions



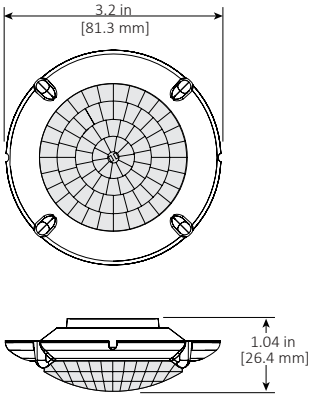
MSL3 Lens Coverage Top View



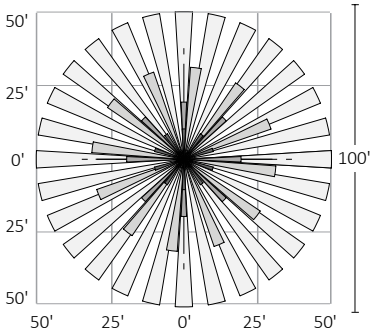
MSL3 Lens Coverage Side View



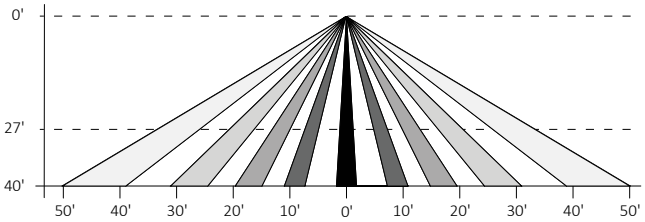
MSL7 Lens Dimensions



MSL7 Lens Coverage Top View



MSL7 Lens Coverage Side View



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Part-Night Dimming Specifications

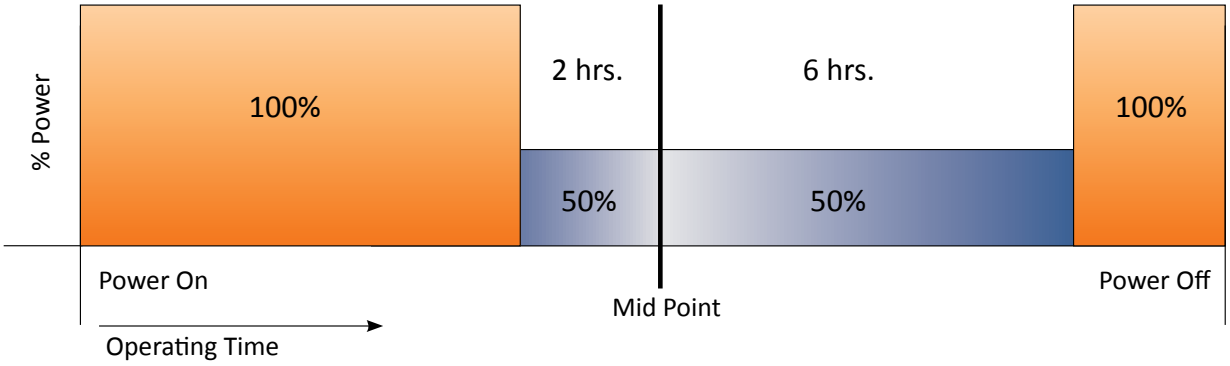
Description

Arieta's Part-Night Dimming (PND) option enables significant energy savings by automatically dimming the luminaire during early morning hours when infrequent use is expected. Factory programmed dimming profiles automatically take into account seasonal changes based on geographical location by continuously monitoring the nighttime midpoint. This option is fully compatible with photocells and time clock devices, but is not field adjustable.

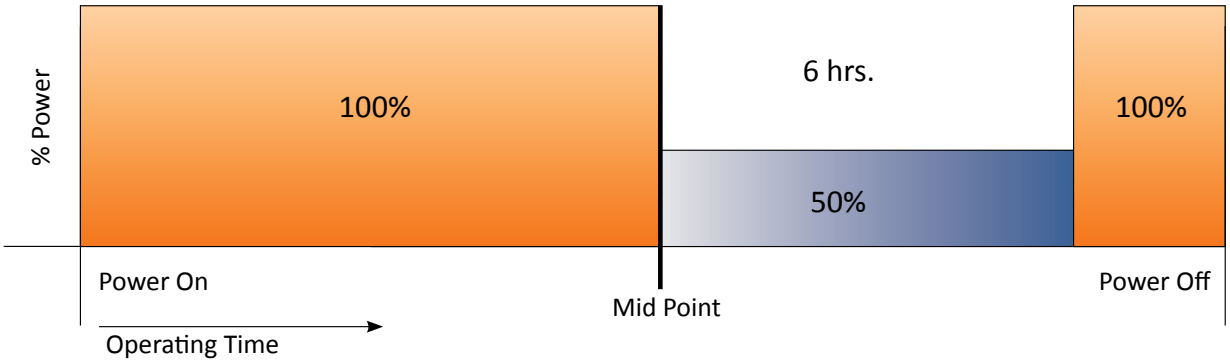
Operation

Based on the PND profile that is selected, the luminaire dims to the corresponding % power for the corresponding length of time (based on the nighttime mid-point) as shown below. Mid-point is continuously recalculated in the luminaire by monitoring the average length of time between when the light turns on (power on) and turns off (power off) over the previous two days. In effect, this functionality will take two days to initialize after installation before any dimming will occur. Power interruptions are ignored and do not affect the determination of mid-point. A motion sensor (MSL3 or MSL7) can be used with PND to temporarily override the dimming profile when motion is detected. Three factory programmed PND profiles are available for selection:

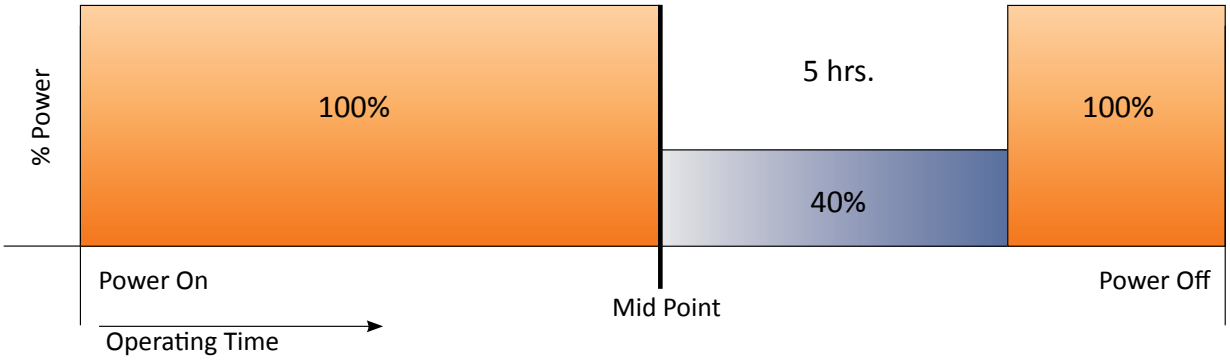
PND1



PND2



PND3



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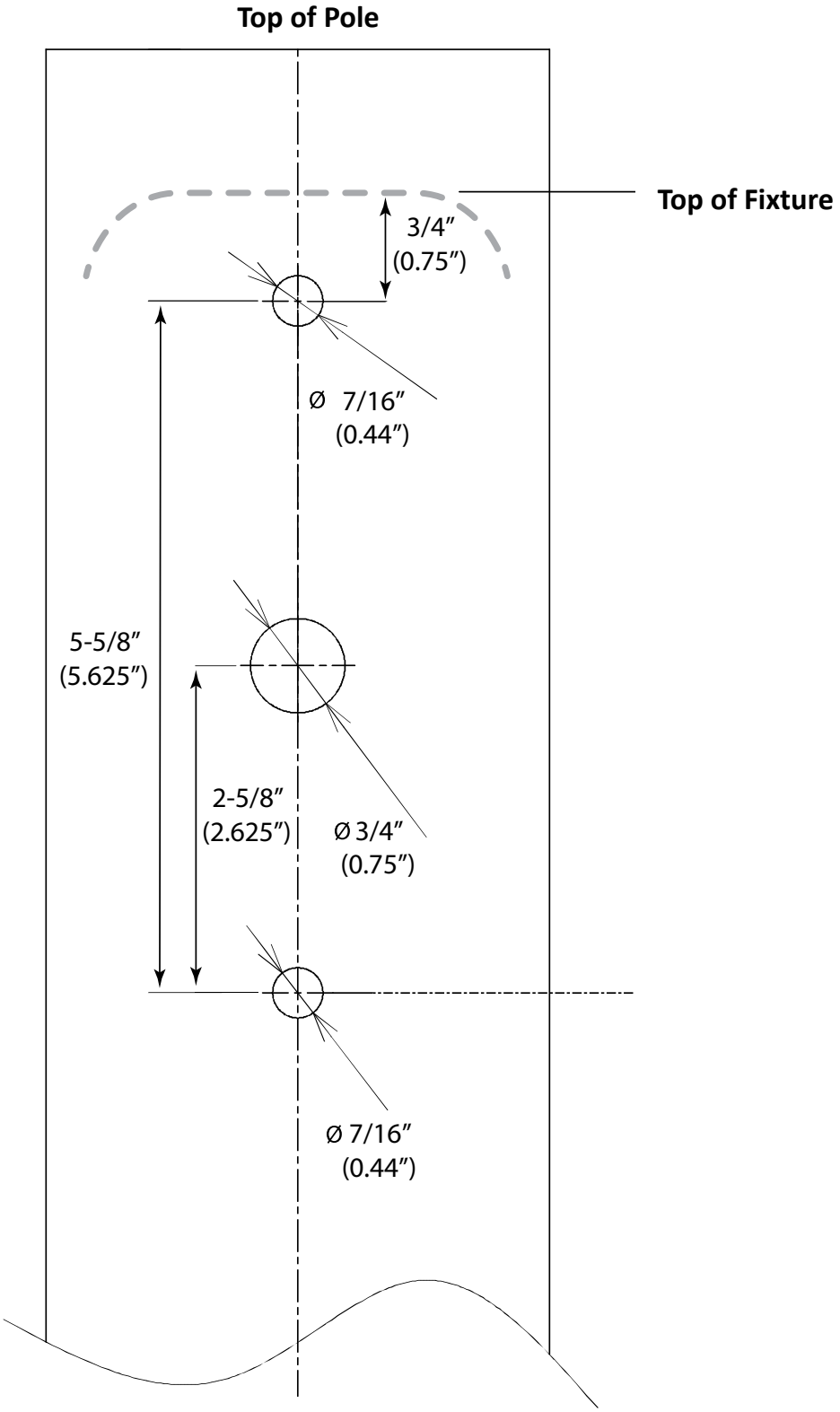
Pole Mount Drilling Dimensions for New Construction
For more details, consult the Arieta Instllation Guide



Mounting Pole Drilling Dimensions
for New Construction

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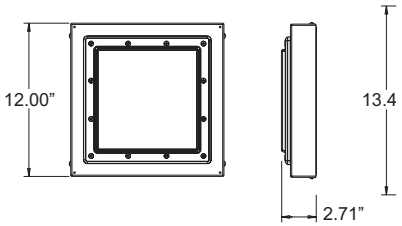
Ordering Information

Example: TLED-C-36-VS-LG-WW

SKU	Description
TLED-C-36-VS-LG-WW	Surface Mount Canopy, 36 LEDs, 120-277VAC, Low Glare Optics, White Finish
TLED-C-36-VS-LG-WW-TP	Surface Mount Canopy, 36 LEDs, 120-277VAC, Low Glare Optics, White Finish, Transient Surge Protection

Notes	**Accessories**[1] (Field Installed)
[1] Order as separate line item	TLED-C-CP-WW = Canopy Trim Kit (for mounting to surface mount junction box)

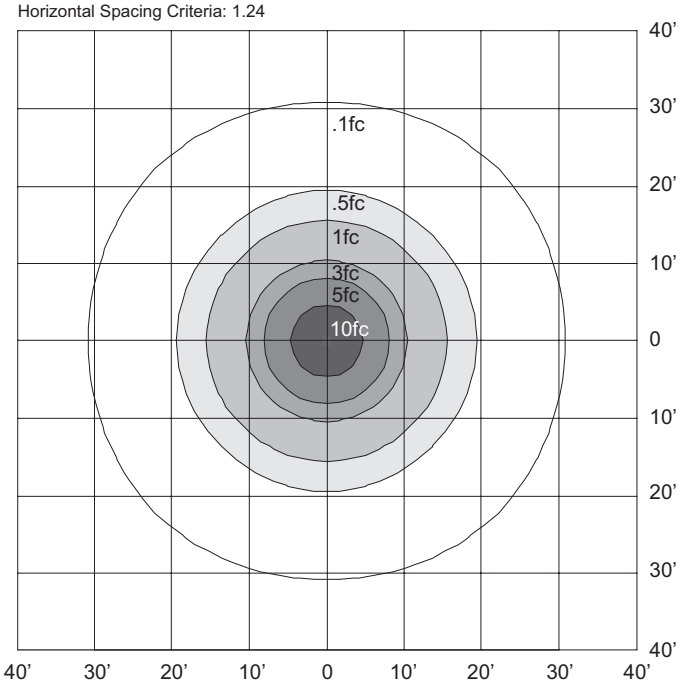
Dimensions



Approximate Weight: 14 lbs.

Sample Photometrics

TLED-C-36-VS-LG Mounted at 10’ (Type VS Very Short)
Horizontal Spacing Criteria: 1.24



Specifications are subject to change without notice.
Installation must be performed in accordance with
Barron Lighting Group installation instructions.

BARRON lighting group
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