



Fee must accompany application  
 \$2,900 with public improvements  
 \$1,960 no public improvements

Paid 9/10/25 Date 07/07/25  
 ChK # 1098

## CERTIFIED SURVEY MAP APPLICATION

Pursuant to Section 18.06 of the Municipal Code

Please read and complete this application carefully. **All applications must be signed and dated.**

**1 APPLICANT OR AGENT**  
 Eric Neumann, Impact General  
 PO Box 132  
 Oconomowoc, WI 53066  
 Phone ( 414 ) 333-6800  
 Fax ( )  
 E-Mail eric@impact-gc.com

**PROPERTY OWNER**  
 GRANT DR GERMANTOWN WI LLC  
 600 EAST AVE, SUITE 200  
 ROCHESTER NY 14607  
 Phone (585 ) 537-6886

**PROPERTY ADDRESS OR GENERAL LOCATION**

**TAX KEY NUMBER**

**2** W132 N10611 Grant Drive, Germantown, WI 53022 GTNV\_253975, GTNV\_253976

**3 PURPOSE OF LAND SPLIT**

The update to the CSM is to remove a lot line on the CSM to allow for expansion of existing building (over the old lot line now being removed)	Will the land split require rezoning? <div style="text-align: center;">NO</div>
From ?	To ?

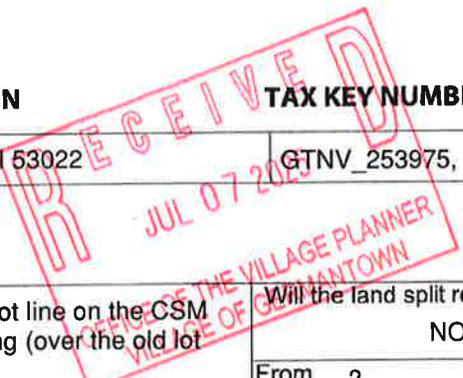
**4 READ AND INITIAL THE FOLLOWING:**

- Yes I understand that the Certified Survey Map is not valid until recorded at the Washington County Register of Deeds. The Village will record the document and charge the applicant all applicable recording fees.
- Yes I understand that the Map will not be placed on the Village Board agenda until all the technical corrections to the CSM are made, the payment of any outstanding impact fees are paid to the Village Clerk's Department, and the original signed and stamped copy of the Map is submitted on the proper paper.
- Yes I understand that parcels created outside the Sewer Service Area will require a soil test. I also understand that all properties abutting a State Highway will require DOT approval and I will be responsible for securing such approval prior to recording.
- Yes I understand all delinquent property taxes on any of the properties involved shall be paid prior to recording.

**5 SIGNATURES -- ALL APPLICATIONS MUST BE SIGNED BY OWNER!**

Eric J Neumann, Impact General  
 Applicant 7/7/2025  
 Date

Grant Dr. Germantown WI LLC  
R. Alan Holland, VP 6/30/25  
 Owner Date





- Fee must accompany application
- \$700 Minor Addition
  - \$1,240 Construction <10,000 SF
  - \$2,095 Construction 10,000 SF to 50,000
  - \$3,460 Industrial Construction >50,000 SF
  - \$3,460 Commercial Construction >50,000
  - \$200 Plan Commission Consultation
  - \$125 Fire Department Plan Review

PAID 9/10/25 DATE 07/07/25  
 CHK # 1098

## SITE PLAN REVIEW APPLICATION

Pursuant to Section 17.43 of the Municipal Code

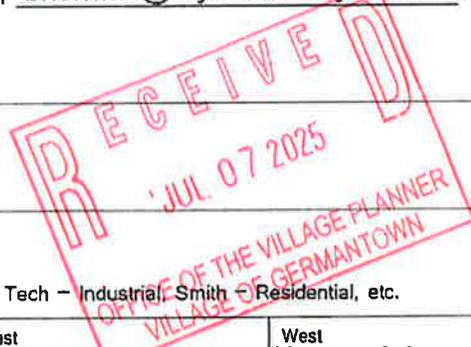
Please read and complete this application carefully. All applications must be signed and dated.

**1** **APPLICANT OR AGENT**  
Eric Neumann, Impact General  
PO Box 132  
Oconomowoc, WI 53066  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Phone ( 414) 333-6800  
 E-Mail eric@impact-gc.com

**PROPERTY OWNER**  
GRANT DR GERMANTOWN WI LLC  
600 EAST AVE, SUITE 200  
ROCHESTER NY 14607  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Phone ( 585 ) 537-6886  
 E-Mail bherman@royalokrealtytrust.com

**2** **PROPERTY ADDRESS**  

W132 N10611 Grant Drive,  
Germantown, WI 53022



**3** **NEIGHBORING USES** – Specify name and type of use, e.g. Enviro Tech – Industrial, Smith Residential, etc.

North Bradley Fountain - M-1 Limited Industrial	South Waste Management - M-1 Limited Industrial	East Multi Tenant M-1 Limited Industrial	West Vacant - A-2 Agricultural District
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**4** **READ AND INITIAL THE FOLLOWING:**

Yes I am aware of the Village of Germantown ordinance requiring fire sprinklers in most new construction.

Yes I understand that all new development is subject to Impact and/or Connection Fees that must be paid before building permits will be issued.

Yes I understand that an incomplete application will be withdrawn from the Plan Commission agenda and that all resubmissions to the Plan Commission are subject to a new application fee.

**5** **SIGNATURES – ALL APPLICATION MUST BE SIGNED BY OWNER!**

<p><small>Digitally signed by Eric J Neumann, Impact General        CN: Eric J Neumann, Impact General        Date: 2025.07.07 09:50:08 -0500</small></p> <p><u>Eric J Neumann, Impact General</u></p>	<p><u>7/7/2025</u></p>	<p><u>Grant Dr. Germantown WI LLC</u>  <u>R. Ann Holland, VP</u></p>	<p><u>6/30/25</u></p>
Applicant	Date	Owner	Date

# Village of



# Germantown

Village of Germantown  
Clerk Treasurer  
N112W17001 MEQUON ROAD  
Germantown, WI 53022  
(262)250-4700  
Welcome

07/08/2025 11:31AM PRAVINA P  
000932-0018  
Payment effective date 07/08/2025

## MISCELLANEOUS

ZONING FEES (GENZON)  
2025 GENZON  
1 @ \$4055.00 \$4,055.00

-----  
\$4,055.00

**Subtotal** \$4,055.00  
**Total** \$4,055.00

CHECK \$4,055.00  
Check Number 1098

-----  
**Change due** \$0.00

Paid by: ER CONSTRUCTION SOLUTIONS

Thank you for your payment

CUSTOMER COPY



# APPLICATION PROCESSING & REVIEW FEE AGREEMENT

**Planning Department**  
 Jeffrey W. Retzlaff, AICP, Village Planner  
 N112 W17001 Mequon Road P.O. Box 337  
 Germantown, WI 53022-0337  
 Tel: (262) 250-4735  
 FAX: (262) 253-8255  
 E-mail: jretzlaff@village.germantown.wi.us

**Applicant/Agent:** Eric Neumann, Impact General  
**Street Address:** PO Box 132  
**City/State/ZIP:** Oconomowoc, WI 53066  
**TEL #:** ( ) 414-333-6800  
**FAX #:** ( ) N/A  
**E-Mail Address:** eric@impact-gc.com

**Property Owner:** GRANT DR GERMANTOWN WI LLC  
**Street Address:** 600 EAST AVE, SUITE 200  
**City/State/ZIP:** ROCHESTER NY 14607  
**TEL #:** (585 ) 537-6886  
**FAX #:** (585 ) 434-1670  
**E-Mail Address:** bherman@royaloakrealtytrust.com

**PROPERTY OWNER AGREEMENT**

I (we) as owner(s) of the property subject of the development permit and/or plan approval application attached hereto and subject of this Agreement with the Village of Germantown have read, understand and agree to the terms, conditions and responsibilities set forth on the reverse side of this form; and

I (we) further understand and agree that I (we) are personally responsible for the payment of all fees and charges necessary to process and review the application(s) submitted to the Village and subject of this Agreement.

I (we) hereby authorize the above stated Agent to represent my interest regarding the application(s) submitted and subject of this Agreement.

Property Owner: Grant Dr. Germantown WI LLC  
R. Hoffman Holland, VP 6/30/25 (signature) (Date) Property Owner: \_\_\_\_\_ (signature) (Date)

**CHECK ALL PERMIT AND PLAN APPROVAL APPLICATIONS INCLUDED UNDER THIS AGREEMENT:**  
 (Deposit Amounts are listed in the "SCHEDULE OF PROCESSING AND REVIEW FEES & CHARGES" available from the Planning Department)

<u>Application</u>	<u>Deposit</u>	<u>CODE</u>	<u>Application</u>	<u>Deposit</u>	<u>CODE</u>
<input type="checkbox"/> Rezoning Petition	\$ _____	RZP	<input type="checkbox"/> Sign Permit	\$ _____	SGN
General Floodplain Wetland			<input type="checkbox"/> Conditional Use Permit	\$ _____	CUP
<input type="checkbox"/> Site & Building Plan	\$ _____	STP	<input type="checkbox"/> Code Text Amendment	\$ _____	COD
MINOR <10K SF 10-50 SF >50 SF			<input type="checkbox"/> Wetland Delineation	\$ _____	WET
<input type="checkbox"/> CSM Land Division	\$ _____	CSM	<input type="checkbox"/> Fire Dept Plan Review	\$125	FDR
W/ Improvements NO Improvements					
<input type="checkbox"/> Subdivision Plat	\$ _____	SUB			
<=10 lots 11-25 lots 26-50 lots >50 lots					
<input type="checkbox"/> Planned Development	\$ _____	PDD			
<5 acres 5-20 acres >20 acres					
<input type="checkbox"/> Comp Plan Amendment	\$ _____	CPA			
Map Text					

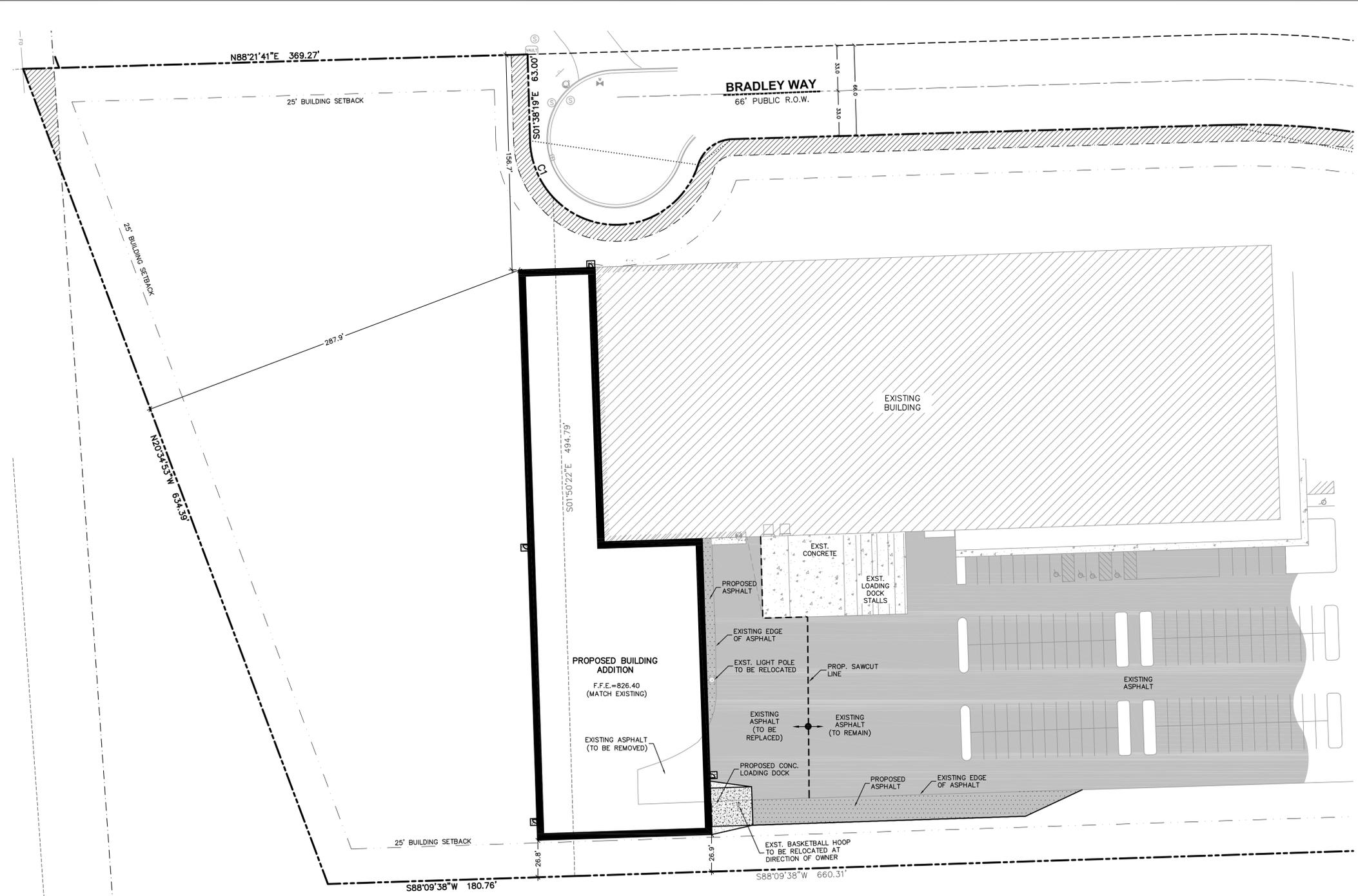
  

<u>Special Fees &amp; Charges</u>	<u>Amount</u>
<input type="checkbox"/> Plan Commission Consultation (any reason)	\$200
<input type="checkbox"/> CSM & Plat Action Deadline Extension	\$250
<input type="checkbox"/> Application Late Fee: + 1 day (any application)	\$250
<input type="checkbox"/> Application Late Fee: + 2 days	\$500

<b>Project Account Number:</b>	<b>Code --- Tracking #:</b>	<b>Deposit Amount:</b>	<b>Special Fee:</b>	<b>Total Deposit/Payment:</b>	<b>Date Received:</b>
15-	..	\$ _____	\$ _____	\$ _____	_ / _ / _
	..	\$ _____	\$ _____		<b>By:</b>
	..	\$ _____	\$ _____		

<b>Parcel ID:</b>	<b>Address:</b>	<b>Project Name:</b>

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**GENERAL NOTES**

1. REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGENDS.
2. EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
3. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
4. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.
5. CONTRACTOR SHALL RESTORE ALL BUILDINGS, PAVEMENT, PIPES, SLOPES, AND STRUCTURES DAMAGED BY THE CONTRACTOR TO PRE-EXISTING OR BETTER CONDITIONS.
6. THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE JURISDICTIONAL AUTHORITY AND IS SUBJECT TO CHANGE AT ANY TIME.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF THESE IMPROVEMENTS.
8. ANY REFERENCES TO THE TERMS OR ENTITY ABBREVIATIONS IN THE FOLLOWING NOTES AND SPECIFICATIONS SHALL BE UNDERSTOOD AS FOLLOWS:
  - 8.1. "JURISDICTION" - THE LOCAL GOVERNMENTAL AGENCY (I.E., CITY, VILLAGE, TOWN, COUNTY, STATE, OR UTILITY SERVICE PROVIDER) HAVING AUTHORITY.
  - 8.2. "STATE HIGHWAY SPECIFICATIONS" - STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION AND SUPPLEMENTS.
  - 8.3. "STANDARD SPECIFICATIONS" - STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, CURRENT EDITION AND SUPPLEMENTS.
  - 8.4. WISCONSIN DEPARTMENT OF TRANSPORTATION - "WISDOT"
  - 8.5. WISCONSIN DEPARTMENT OF NATURAL RESOURCES - "WDNR"
  - 8.6. DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES - "DPS" OR "SPS"

**PAVING NOTES**

1. GENERAL:
  - 1.1. PAVING SHALL CONFORM TO STATE HIGHWAY SPECIFICATIONS AND APPLICABLE JURISDICTIONAL SPECIFICATIONS.
  - 1.2. ALL SPOT GRADES ARE TO EDGE OF PAVEMENT UNLESS SPECIFIED OTHERWISE.
  - 1.3. SURFACE PREPARATION - NOTIFY ENGINEER/OWNER OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
2. CRUSHED AGGREGATE BASE COURSE SPECIFICATIONS:
  - 2.1. THE TOP LAYER OF BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305 OF THE STATE HIGHWAY SPECIFICATIONS.
  - 2.2. RECLAIMED OR RECYCLED ASPHALT MAY NOT BE USED AS CRUSHED AGGREGATE BASE COURSE UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. USE OF ANY OTHER REPROCESSED OR BLENDED MATERIAL MUST FIRST BE APPROVED BY ENGINEER OF RECORD.
  - 2.3. DO NOT PLACE BASE ON FROZEN FOUNDATIONS UNLESS THE ENGINEER APPROVES OTHERWISE.
  - 2.4. DO NOT PLACE BASE ON FOUNDATIONS THAT ARE SOFT, SPONGY, OR COVERED BY ICE OR SNOW.
3. HOT MIXED ASPHALT (HMA) PAVING SPECIFICATIONS:
  - 3.1. THE PLACING, CONSTRUCTION, AND COMPOSITION OF THE BASE COURSE AND HMA SURFACE COURSE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 450, 455, 460, AND 465 OF THE STATE HIGHWAY SPECIFICATIONS.
  - 3.2. WEATHER LIMITATIONS:
    - 3.2.1. DO NOT PLACE HMA WHEN BASE IS WET OR CONTAINS EXCESS MOISTURE.
    - 3.2.2. DO NOT PLACE ASPHALTIC MIXTURE WHEN THE AIR TEMPERATURE IS APPROXIMATELY 3° ABOVE GRADE, IN SHADE, AND AWAY FROM ARTIFICIAL HEAT SOURCES IS LESS THAN 40°F UNLESS A VALID ENGINEER-ACCEPTED COLD WEATHER PAVING PLAN IS IN EFFECT.
    - 3.2.3. PLACE ASPHALTIC MIXTURE ONLY ON A PREPARED, FIRM, AND COMPACTED BASE, FOUNDATION LAYER, OR EXISTING PAVEMENT SUBSTANTIALLY SURFACE-DRY AND FREE OF LOOSE AND FOREIGN MATERIAL. DO NOT PLACE OVER FROZEN SUBGRADE OR BASE, OR WHERE THE ROADBED IS UNSTABLE. APPLY TACK COAT ONLY WHEN THE AIR TEMPERATURE IS 32°F OR MORE UNLESS THE ENGINEER APPROVES OTHERWISE IN WRITING.
    - 3.2.5. ALL ASPHALT (BOTH UPPER AND LOWER LAYERS) SHALL BE DELIVERED TO THE PROJECT SITE AT A TEMPERATURE NOT LOWER THAN 260°F.
  - 3.3. CONTRACTOR SHALL ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS FOR EACH COURSE DURING CONSTRUCTION.
  - 3.4. BINDER COURSE AGGREGATE:
    - 3.4.1. THE AGGREGATE FOR THE BINDER COURSE SHALL CONFORM TO SECTION 460 OF THE STATE HIGHWAY SPECIFICATIONS.
  - 3.5. SURFACE COURSE AGGREGATE
    - 3.5.1. THE AGGREGATE FOR THE SURFACE COURSE SHALL CONFORM TO SECTIONS 460 AND 465 OF THE STATE HIGHWAY SPECIFICATIONS.
  - 3.6. ASPHALTIC MATERIALS
    - 3.6.1. THE ASPHALTIC MATERIALS SHALL CONFORM TO SECTIONS 455, 460, AND 465 OF THE STATE HIGHWAY SPECIFICATIONS.
4. CONCRETE PAVING SPECIFICATIONS:
  - 4.1. CONCRETE PAVING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 405, 415, AND 416 OF THE STATE HIGHWAY SPECIFICATIONS.
  - 4.2. CURING COMPOUNDS SHALL CONFORM TO SECTION 415 OF THE STATE HIGHWAY SPECIFICATIONS.
  - 4.3. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 100' APART.
  - 4.4. EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.

**LEGEND**

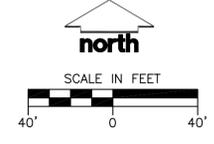
	PROPERTY LINE
	RIGHT-OF-WAY
	EASEMENT LINE
	PROPOSED BUILDING OUTLINE
	PROPOSED ASPHALT
	EXISTING ASPHALT
	PROPOSED CONCRETE

**SHEET INDEX**

C1.0	SITE PLAN
C2.0	SITE GRADING AND EROSION CONTROL PLAN
C3.0	SITE DETAILS PLAN

**SITE INFORMATION BLOCK**

SITE ADDRESS	W132N10611 GRANT DRIVE GERMANTOWN, WI 53022
PROPERTY ACREAGE	542,241 SF (12.448 ACRES)
NET IMPERVIOUS AREA:	42,108 SF (0.968 ACRES)
DISTURBED AREA:	175,505 SF (4.029 ACRES)



CREATE THE VISION TELL THE STORY

jsdinc.com

MILWAUKEE REGIONAL OFFICE  
W238 N1610 BUSSE ROAD, SUITE 100  
WAUKESHA, WISCONSIN 53188  
P. 262.513.0666

CLIENT:  
**IMPACT GENERAL**

CLIENT ADDRESS:  
**CONOMOWOC, WI, 53066**

PROJECT:  
**IMPACT GENERAL TCI**

PROJECT LOCATION:  
**W132 N10611 GRANT DRIVE  
GERMANTOWN, WASHINGTON CO.  
WISCONSIN 53022**

**PLAN MODIFICATIONS:**

#	Date:	Description:
1	07-07-25	PRELIMINARY DESIGN
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Designed By: A.R.P.  
Reviewed By: C.A.J.  
Approved By: C.A.J.

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**C1.0**

JSD PROJECT NO: 25-15051

THESE PLANS AND DESIGNS ARE COPYRIGHT PROTECTED AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF JSD PROFESSIONAL SERVICES, INC.

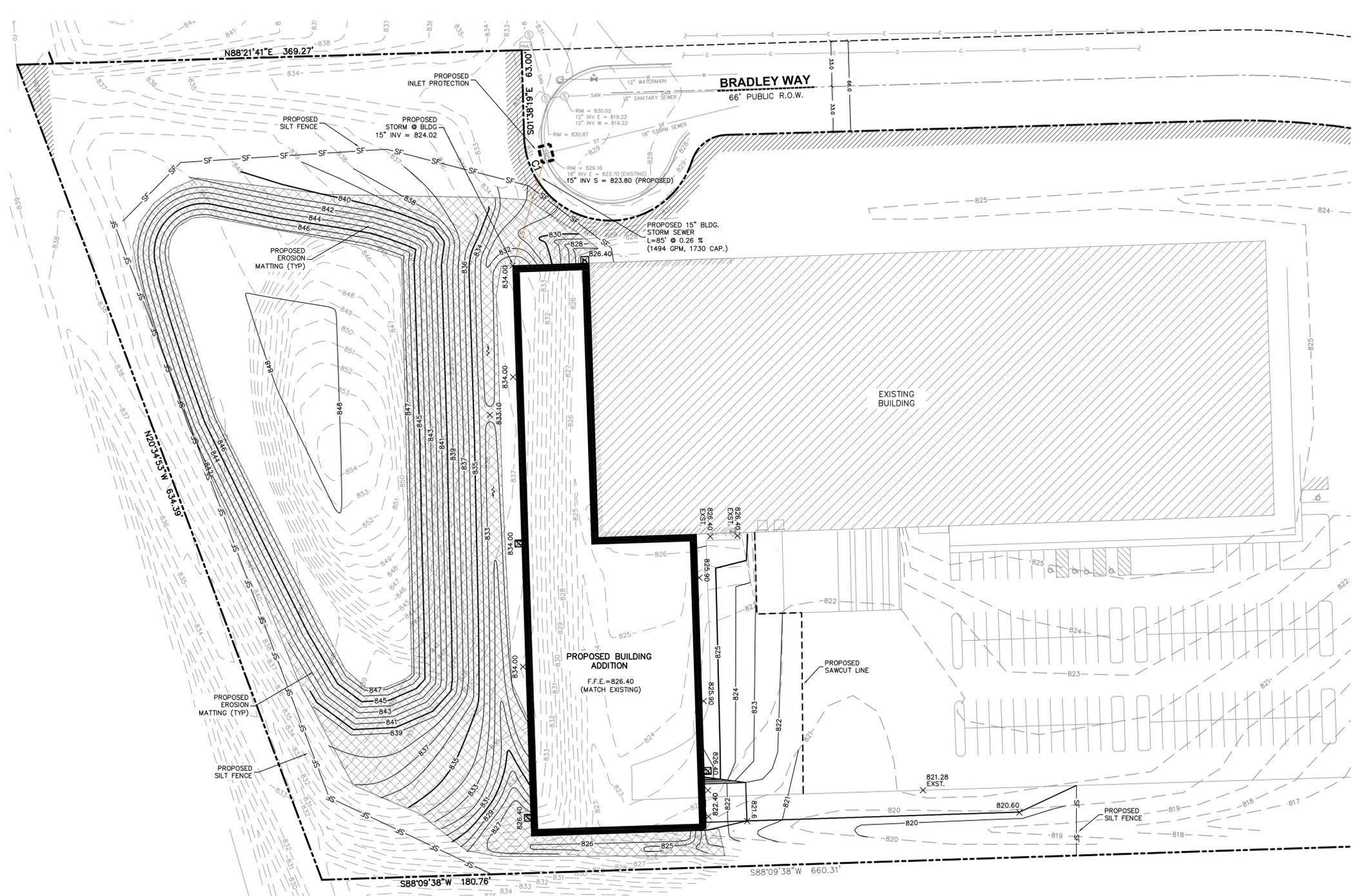
PLAN MODIFICATIONS:		
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Designed By: A.R.P.  
Reviewed By: C.A.J.  
Approved By: C.A.J.

**GRADING AND EROSION CONTROL PLAN**

SHEET NUMBER:

**C2.0**



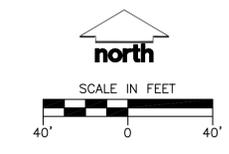
LEGEND	
	BENCHMARK
	EXISTING SIGN
	EXISTING STORM MANHOLE
	EXISTING ROUND CASTED INLET
	EXISTING SQUARE CASTED INLET
	EXISTING CURB INLET
	EXISTING GAS VALVE
	EXISTING MANHOLE - UNVERIFIED TYPE
	EXISTING LIGHT POLE
	EXISTING POWER POLE W/GUY
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
	EXISTING BUSH
	EXISTING STORM SEWER
	EXISTING GAS
	EXISTING OVERHEAD UTILITIES
	PROPERTY LINE
	EASEMENT LINE
	SETBACK LINE
	PROPOSED BUILDING OUTLINE
	PROPOSED 5' CONTOUR
	PROPOSED 1' CONTOUR
	PROPOSED STORM SEWER
	PROPOSED SILT FENCE
	PROPOSED INLET PROTECTION

**GRADING AND EARTHWORK NOTES**

- ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY, AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPUTATIONS OF ALL GRADING QUANTITIES. WHILE JSD PROFESSIONAL SERVICES, INC. ATTEMPTS TO PROVIDE A COST-EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARDS OF CARE. THEREFORE, NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
- ALL EXCAVATIONS AND FILLS SHALL BE TO THE ELEVATIONS SHOWN ON THE DRAWINGS AND SHALL INCLUDE SUFFICIENT DEPTHS FOR PLACEMENT OF FILL MATERIALS, BASE COURSES, PAVEMENTS, TOPSOIL, AND OTHER MATERIALS TO THE SPECIFIED DEPTHS.
- PRIOR TO ALL EXCAVATION OR FILLING OPERATIONS, CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TOPSOIL FROM PROPOSED LOCATIONS OF BUILDINGS, STRUCTURES, ROADS, WALKS, OTHER PAVED AREAS, STORM WATER FACILITIES OR WITHIN THE GRADING EXTENTS WHERE EXISTING GRADES ARE ALTERED BY MORE THAN 3". REMOVED OR STRIPPED TOPSOIL SHALL BE SEGREGATED AND STOCKPILED ON-SITE IN AN APPROPRIATE LOCATION TO BE RESPREAD AS SPECIFIED ON THE DRAWINGS.
- CONTRACTOR SHALL NOT PLACE ANY FILL OR OTHER MATERIALS ON AREAS THAT HAVE NOT HAD TOPSOIL REMOVED, ARE FROZEN, SATURATED, OR YIELDING. CONTRACTOR SHALL NOTIFY OWNER OR ENGINEER IF SUBGRADE CONDITIONS ARE NOT SUITABLE FOR SUPPORTING FILL AND A FURTHER DETERMINATION SHALL BE PROVIDED BY OWNER OR ENGINEER.
- SOIL MATERIAL SPECIFICATIONS:**
  - FILL AND BACKFILL MATERIALS**
    - MATERIAL SHALL BE SATISFACTORY MATERIALS EXCAVATED FROM THE SITE. IF SATISFACTORY MATERIALS ARE NOT AVAILABLE ONSITE OR ADDITIONAL MATERIALS ARE REQUIRED, REFER TO IMPORTED FILL MATERIAL SPECIFICATIONS.
    - IMPORTED FILL MATERIAL**
      - MATERIAL SHALL BE PROVIDED BY THE CONTRACTOR FROM OFFSITE BORROW AREAS WHEN SUFFICIENT, SATISFACTORY MATERIALS ARE NOT AVAILABLE ONSITE. IMPORTED FILL MATERIAL SHALL CONSIST OF CLEAN MATERIAL OF INORGANIC SOILS OR A MIXTURE OF INORGANIC SOIL AND ROCK, STONE, OR GRAVEL. THE MATERIAL SHALL BE FREE OF TOPSOIL, VEGETATION, PAVEMENT RUBBLE, DEBRIS, OR OTHER DELETERIOUS MATERIALS. THE MAXIMUM NOMINAL DIMENSION OF MATERIALS CONSISTING OF ROCK, STONE, OR GRAVEL SHALL BE 6".
      - GRANULAR FILL**
        - MATERIAL SHALL CONSIST OF CLEAN MATERIAL MEETING THE REQUIREMENTS OF "GRADE 1" OR "GRADE 2" GRANULAR BACKFILL AS DEFINED IN SECTION 209.2.1 OF THE STATE HIGHWAY SPECIFICATIONS.
    - BUILDING STRUCTURAL FILL**
      - CLEAN MATERIAL MEETING THE REQUIREMENTS OF TYPE A "STRUCTURE BACKFILL" AS DEFINED IN SECTIONS 210.2.1 AND 210.2.2. OF THE STATE HIGHWAY SPECIFICATIONS.

**CONSTRUCTION SEQUENCING**

- INSTALL PERIMETER SILT FENCE AND INLET PROTECTION.
  - STRIP AND STOCKPILE TOPSOIL AND INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE. LOCATION OF STOCKPILE TO BE DETERMINED BY CONTRACTOR.
  - CONDUCT ROUGH GRADING EFFORTS.
  - COMPLETE FINAL GRADING, INSTALLATION OF GRAVEL BASE COURSES, PAVEMENTS, ETC.
  - PLACE TOPSOIL AND IMMEDIATELY STABILIZE DISTURBED AREAS WITH EROSION CONTROL MEASURES AS INDICATED ON PLANS.
  - EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED OR 70% CONTIGUOUS VEGETATIVE COVER IS ESTABLISHED.
- CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM NO. 1 AS NEEDED TO COMPLETE CONSTRUCTION IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS.



PLAN MODIFICATIONS:

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Designed By: A.R.P.  
Reviewed By: C.A.J.  
Approved By: C.A.J.

**GRADING AND  
EROSION CONTROL PLAN**

SHEET NUMBER:

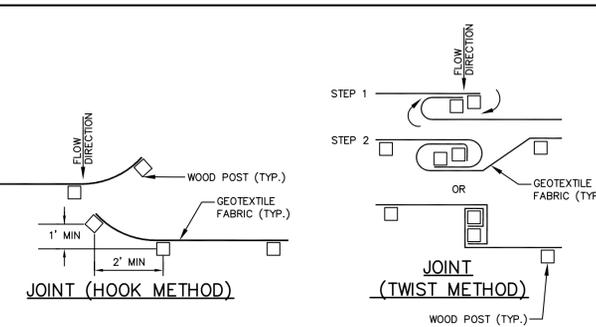
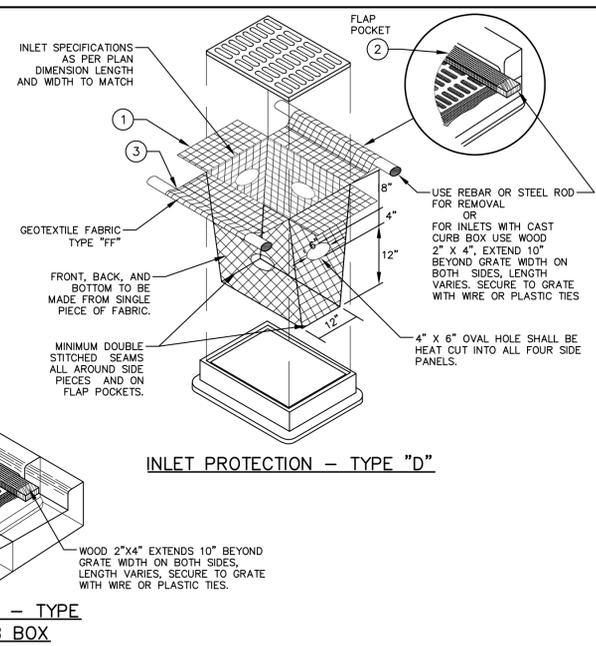
**C2.0**

**EROSION CONTROL NOTES**

- CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER OF RECORD AND OFFICIALS OF ANY CHANGES TO THE EROSION CONTROL PLAN.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS AND JURISDICTIONAL REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL MEASURES WHICH MAY BE NECESSARY TO MEET UNFORESEEN FIELD CONDITIONS.
- INSTALL PERIMETER EROSION CONTROL MEASURES (SILT FENCE AND EXISTING INLET PROTECTION) PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE COVER. MODIFICATIONS TO THE APPROVED EROSION CONTROL DESIGN IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS IS ALLOWED IF MODIFICATIONS CONFORM TO WDNR TECHNICAL STANDARDS AND JURISDICTIONAL REQUIREMENTS. ALL DESIGN MODIFICATIONS MUST BE APPROVED BY THE JURISDICTIONAL AUTHORITIES PRIOR TO DEVIATION OF THE APPROVED PLAN.
- ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY JURISDICTIONS HAVING AUTHORITY AND/OR ENGINEER OF RECORD SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.
- INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.
- ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WITHIN 24 HOURS OF ALL RAIN EVENTS EXCEEDING 0.5". ANY DAMAGED EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY UPON INSPECTION.
- PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEPED AND/OR SCRAPPED TO REMOVE ACCUMULATED SOIL, DIRT, AND/OR DUST AFTER THE END OF EACH WORK DAY AND AS REQUESTED BY THE JURISDICTIONAL AUTHORITIES.
- INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES. IF STOCKPILE REMAINS UNDISTURBED FOR MORE THAN SEVEN (7) DAYS, TEMPORARY SEEDING AND STABILIZATION IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES IS REQUIRED. IF DISTURBANCE OCCURS BETWEEN NOVEMBER 15TH AND MAY 15TH, THE MULCHING SHALL BE PERFORMED BY HYDRO-MULCHING WITH A TACKIFIER.
- EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):
  - PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
  - BACKFILL AND STABILIZE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
  - DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH THE WDNR Dewatering TECHNICAL STANDARD NO. 1061 PRIOR TO RELEASE INTO THE STORM SEWER, RECEIVING STREAM, OR DRAINAGE DITCH.
- CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTROL DUST ARISING FROM CONSTRUCTION OPERATIONS. REFER TO WDNR TECHNICAL STANDARD 1068.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. NO MORE THAN SEVEN (7) DAYS SHALL PASS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED UNLESS:
  - THE INITIATION STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS CEASED OR IS PRECLUDED BY SNOW COVER. IN THAT EVENT, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE.
  - CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITY CEASED (I.E., THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN FOURTEEN (14) DAY). IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED.
  - STABILIZATION MEASURES SHALL BE DETERMINED BASED ON SITE CONDITIONS WHEN CONSTRUCTION ACTIVITY HAS CEASED INCLUDING, BUT NOT LIMITED TO, WEATHER CONDITIONS AND LENGTH OF TIME THE MEASURE MUST BE EFFECTIVE. THE FOLLOWING ARE ACCEPTABLE STABILIZATION MEASURES:
    - PERMANENT SEEDING IN ACCORDANCE WITH APPROVED CONSTRUCTION SPECIFICATION.
    - TEMPORARY SEEDING; MAY CONSIST OF SPRING OATS (100LB/ACRE) IN SPRING/SUMMER OR WHEAT OR CEREAL RYE (150LB/ACRE) IN FALL.
    - HYDRO-MULCHING WITH A TACKIFIER.
    - WOVEN AND NON-WOVEN GEOTEXTILES.
    - EROSION MATTING.
    - SODDING.
    - OTHER MEASURES AS APPROVED BY THE ENGINEER.
- EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY AT THE SITE HAS BEEN COMPLETED AND THAT A UNIFORM PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A CONTIGUOUS DENSITY OF AT LEAST 70% FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES OR THAT EMPLOY EQUIVALENT PERMANENT STABILIZATION MEASURES.

**UTILITY NOTES**

- ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATIONS OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR/OWNER SHALL CALL "DIGGERS HOTLINE" PRIOR TO ANY CONSTRUCTION.
- ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC UTILITIES AND STATE DSPS/SPS AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE JURISDICTIONAL AUTHORITIES.
- SPECIFICATIONS SHALL COMPLY WITH THE JURISDICTIONAL AUTHORITY'S SPECIAL PROVISIONS.
- LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
- CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED IN CONSTRUCTION SITES WHERE THE POTENTIAL FOR PEDESTRIAN INJURY EXISTS.
- ALL NON-METALLIC UTILITY PIPES (SANITARY SEWER, STORM SEWER, AND WATER PIPING) SHALL BE INSTALLED IN CONJUNCTION WITH TRACER WIRE AS REQUIRED BY SPS 382.30(1)(H), SPS 382.30(7)(C)10, AND SPS 382.40(9)(K). COLOR OF TRACER WIRE SHALL BE: SANITARY SEWER - GREEN, STORM SEWER - BROWN, WATER - BLUE, NON-POTABLE WATER - PURPLE.
- THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
- ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE JURISDICTIONAL AUTHORITY'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL VERIFY UTILITY CONNECTIONS PRIOR TO UTILITY CONSTRUCTION. NOTIFY THE ENGINEER WITH ANY DISCREPANCIES.
- STORM SEWER SPECIFICATIONS:
  - PIPE:
    - REINFORCED CONCRETE PIPE (RCP) - SHALL MEET THE REQUIREMENTS OF ASTM CLASS III (MINIMUM) C78 WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C443.
    - HIGH DENSITY DUAL-WALL POLYETHYLENE CORRUGATED PIPE (HDPE) - SHALL BE AS MANUFACTURED BY ADS OR EQUAL WITH WATERTIGHT JOINTS, AND SHALL MEET THE REQUIREMENTS OF AASHTO DESIGNATION M294 TYPE "S".
    - POLYVINYL CHLORIDE (PVC) - SHALL MEET REQUIREMENTS OF ASTM D3034, SDR 35 FOR PIPE SIZES 8"-15" WITH INTEGRAL BELL TYPE FLEXIBLE ELECTROMETRIC JOINTS, MEETING THE REQUIREMENTS OF ASTM D3212, ASTM 1785 SCHEDULE 40 FOR PIPE DIAMETERS 4"-6". SDR 35 SHALL BE USED FOR DEPTHS 3'-15'.
  - BACKFILL AND BEDDING:
    - STORM SEWER SHALL BE CONSTRUCTED WITH GRAVEL BACKFILL AND CLASS "B" BEDDING IN ALL PAVED AREAS AND TO A POINT 5' BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 9' FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL.
    - LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.4.5 OF THE STANDARD SPECIFICATIONS.
- FIELD TILE CONNECTIONS:
  - ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE(S) FOR STORM SEWER. TILE LINES CROSSED BY THE TRENCH SHALL BE REPLACED WITH THE SAME MATERIAL AS THE STORM SEWER.



**GENERAL NOTES:**

- SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8-INCHES OF FABRIC IN A 4-INCH WIDE AND 6-INCH DEEP TRENCH OR 6-INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCHES SHALL NOT BE EXCAVATED WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
- FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
- WOOD POSTS SHALL BE A MINIMUM SIZE OF 1.125-INCHES x 1.125-INCHES OF DRIED OAK OR HICKORY.
- SILT FENCE TO EXTEND ABOVE THE TOP OF PIPE.
- SILT FENCE CONSTRUCTION AND GEOTEXTILE FABRIC SHALL CONFORM TO WDNR TECHNICAL STANDARD 1056.
- POST SPACING SHALL BE SELECTED BASED ON GEOTEXTILE FABRIC (8'-FEET FOR WOVEN & 3'-FEET FOR NON-WOVEN)

**GENERAL NOTES:**

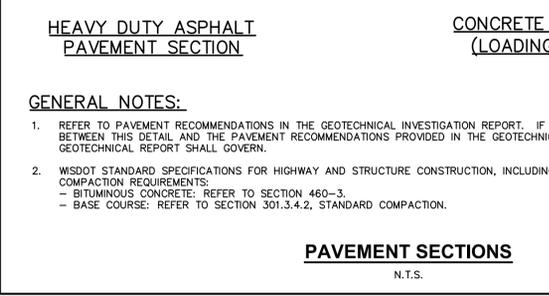
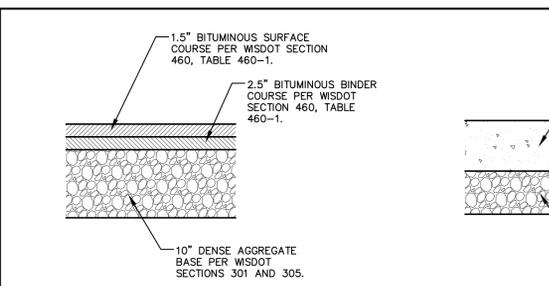
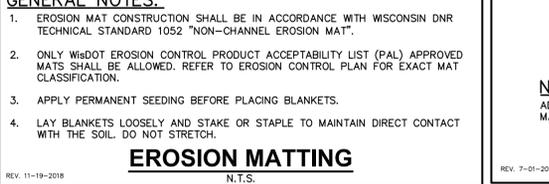
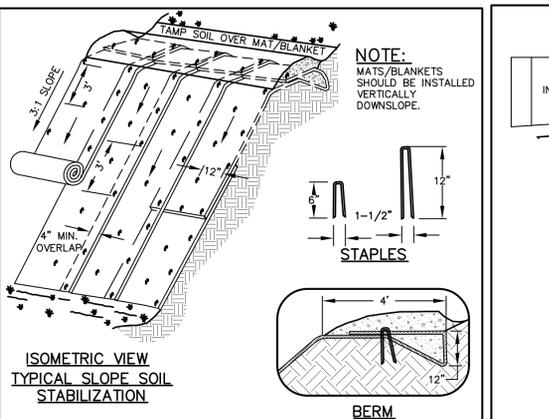
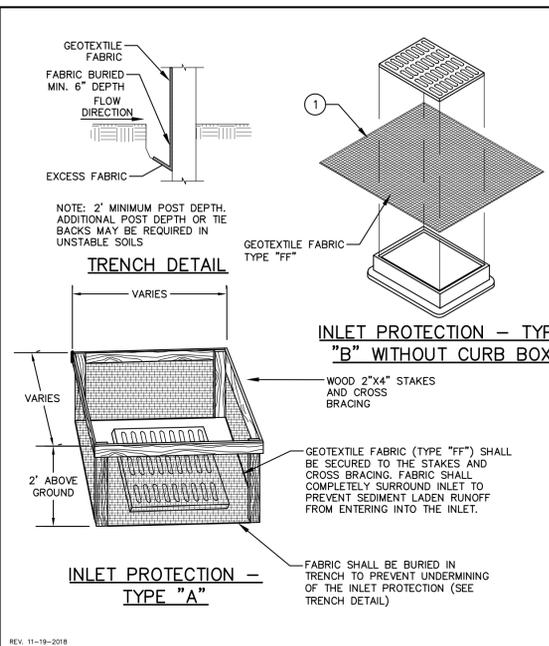
- INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
- WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
- FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10' AROUND THE PERIMETER OF FACILITATE MAINTENANCE OR REMOVAL.
  - FOR INLET PROTECTION, TYPE "C" (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
  - FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT A WOOD 2X4

**INSTALLATION NOTES:**

- TYPE "B" & "C"  
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.  
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHODS TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

**INSTALLATION NOTES:**

- TYPE "D"  
DO NOT INSTALL INLET PROTECTION TYPE "D" IN INLETS SHALLOWER THAN 30 INCHES, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.  
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.  
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3 INCHES. WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCHES CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4 INCHES FROM THE BOTTOM OF THE BAG.

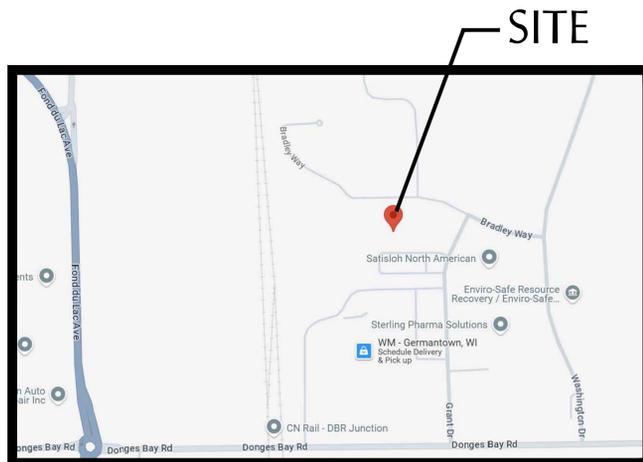


**SEEDING AND RESTORATION NOTES**

- CONTRACTOR SHALL PROVIDE NOTICE TO THE JURISDICTIONAL AUTHORITIES IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
- ALL DISTURBED AREAS SHALL BE SODDED AND/OR SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES.
- CONTRACTOR SHALL WATER ALL NEWLY SODDED/SEEDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7-DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
- SEEDING SPECIFICATIONS:
  - TURF LAWN SEED MIXTURE: WISDOT SEED MIX NO. 40 AT RATES SPECIFIED IN SECTION 630 OF THE STATE HIGHWAY SPECIFICATIONS
  - LOW MAINTENANCE AREA SEED MIXTURE: WISDOT SEED MIX NO. 10 OR 20 APPLIED AT RATES AS SPECIFIED IN SECTION 630 OF THE STATE HIGHWAY SPECIFICATIONS.
  - NO-MOW AREA SEED MIXTURE: NO-MOW LAWN SEED MIX, AS PROVIDED BY PRAIRIE NURSERY, P.O. BOX 306, WESTFIELD, WISCONSIN, 53964. TEL: 608-296-3679 (OR APPROVED EQUIVALENT). SEEDING RATE SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- SEED PREPARATION SPECIFICATIONS:
  - SCARIFY SUBSOILS TO A DEPTH OF 3" WHERE TOPSOIL SHALL BE PLACED TO REDUCE COMPACTION.
  - PLACE TOPSOIL AT A MINIMUM DEPTH OF 6" UNLESS OTHERWISE NOTED ON THE PLANS.
  - APPLY FERTILIZER IN ACCORDANCE WITH SEED MIX MANUFACTURER'S RECOMMENDATIONS.
  - SOW SEED AT RATES SPECIFIED USING METHOD "A" OR METHOD "B" AS SPECIFIED IN SECTION 630 OF THE STATE HIGHWAY SPECIFICATIONS.
- SEED MULCHING/EROSION MATTING SPECIFICATIONS:
  - ALL SEEDED AREAS WITH SLOPES FLATTER THAN 4:1, UNLESS OTHERWISE NOTED ON THE PLANS, SHALL BE STABILIZED WITH WEED-FREE WHEAT STRAW MULCH WITH METHODS AND RATES IN ACCORDANCE WITH SECTION 627 OF THE STATE HIGHWAY SPECIFICATIONS.
  - ALL SEEDED AREAS WITH SLOPES EQUAL TO OR STEEPER THAN 4:1, UNLESS OTHERWISE NOTED ON THE PLANS, SHALL BE STABILIZED WITH EROSION MATTING MATERIALS AS SPECIFIED ON THE PLANS. EROSION MATTING SHALL BE IN ACCORDANCE WITH SECTION 628 OF THE STATE HIGHWAY SPECIFICATIONS.



# TCI / ALLIENT POWER W132 N10611 GRANT DRIVE GERMANTOWN, WI BUILDING ADDITION



SITE LOCATION PLAN

PROJECT INFORMATION		PROJECT INFORMATION	
TENNANT:	TCI / ALLIENT POWER	TS	TITLE SHEET
SITE LOCATION:	W132 N10611 GRANT DRIVE GERMANTOWN, WI	A0.1	SITE PLAN
PROPOSED SQ FT:	52,000 SQ FT	A1.0	MASTER & FLOOR PLAN
		A1.1	FLOOR PLAN
		A2.0	ELEVATIONS
		A2.1	ELEVATIONS
		A3.0	SECTIONS
		A6.0	ROOM & DOOR SCHEDULE

REVISION

JOB DESCRIPTION		TCI/ALLIENT POWER W132 N10611 GRANT DR GERMANTOWN, WI	
DATE	7/1/25	DRAWING DESCRIPTION	TITLE SHEET
DESIGNER	F. CARLSON		

P O BOX 132  
OCONOMOWOC, WI 53066  
PH262-691-3330

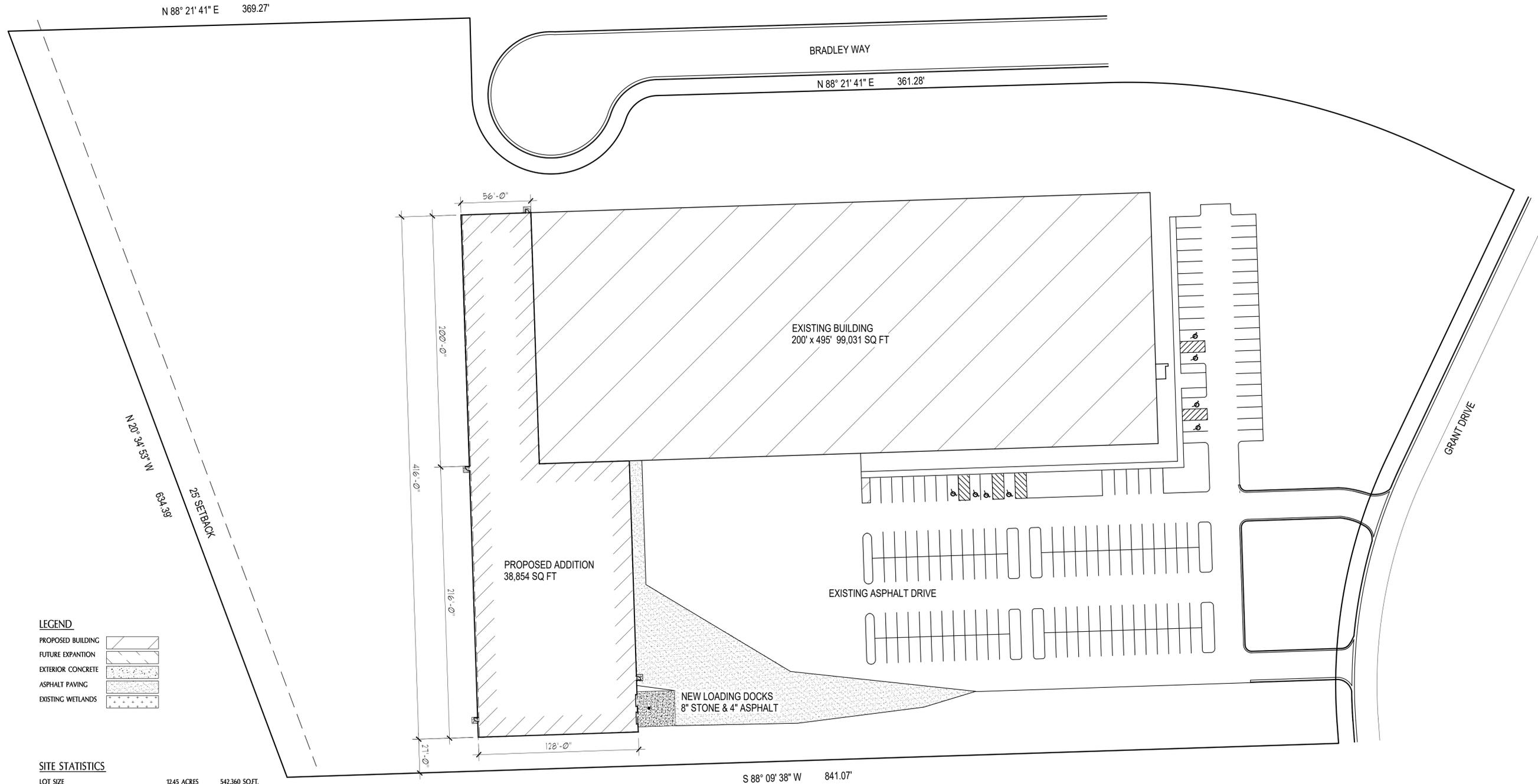


JOB DESCRIPTION	TCI/ALLIENT POWER W132 N10611 GRANT DR GERMANTOWN, WI
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SHEET #	TS
JOB #	2025-3

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**LEGEND**

PROPOSED BUILDING	
FUTURE EXPANTION	
EXTERIOR CONCRETE	
ASPHALT PAVING	
EXISTING WETLANDS	

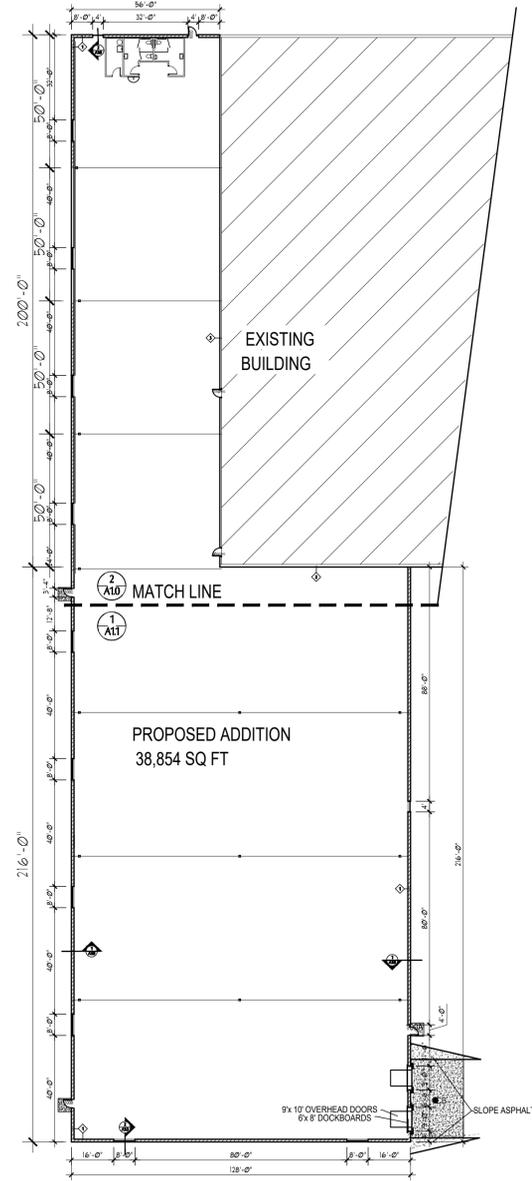
**SITE STATISTICS**

LOT SIZE	12.45 ACRES	542,360 SQ.FT.
EXISTING BUILDING SQ.FT.		99,031 SQ.FT.
PROPOSED BUILDING SQ.FT.		38,854 SQ.FT.
FAR FLOOR AREA RATIO		23.4 %
EXTERIOR CONCRETE		3,239 SQ.FT.
ASPHALT PAVING		108,652 SQ.FT.
PARKING SPACES		147
H.C. PARKING SPACES		8
PARKING/BUILDING SQ.FT. RATIO		1 PER 938 SQ.FT.
LOT COVERAGE		64 %
GREEN AREA		195,546 SQ.FT.
LSR LANDSCAPE RATIO		36 %

**PROPOSED SITE PLAN**  
SCALE: 1"=40'

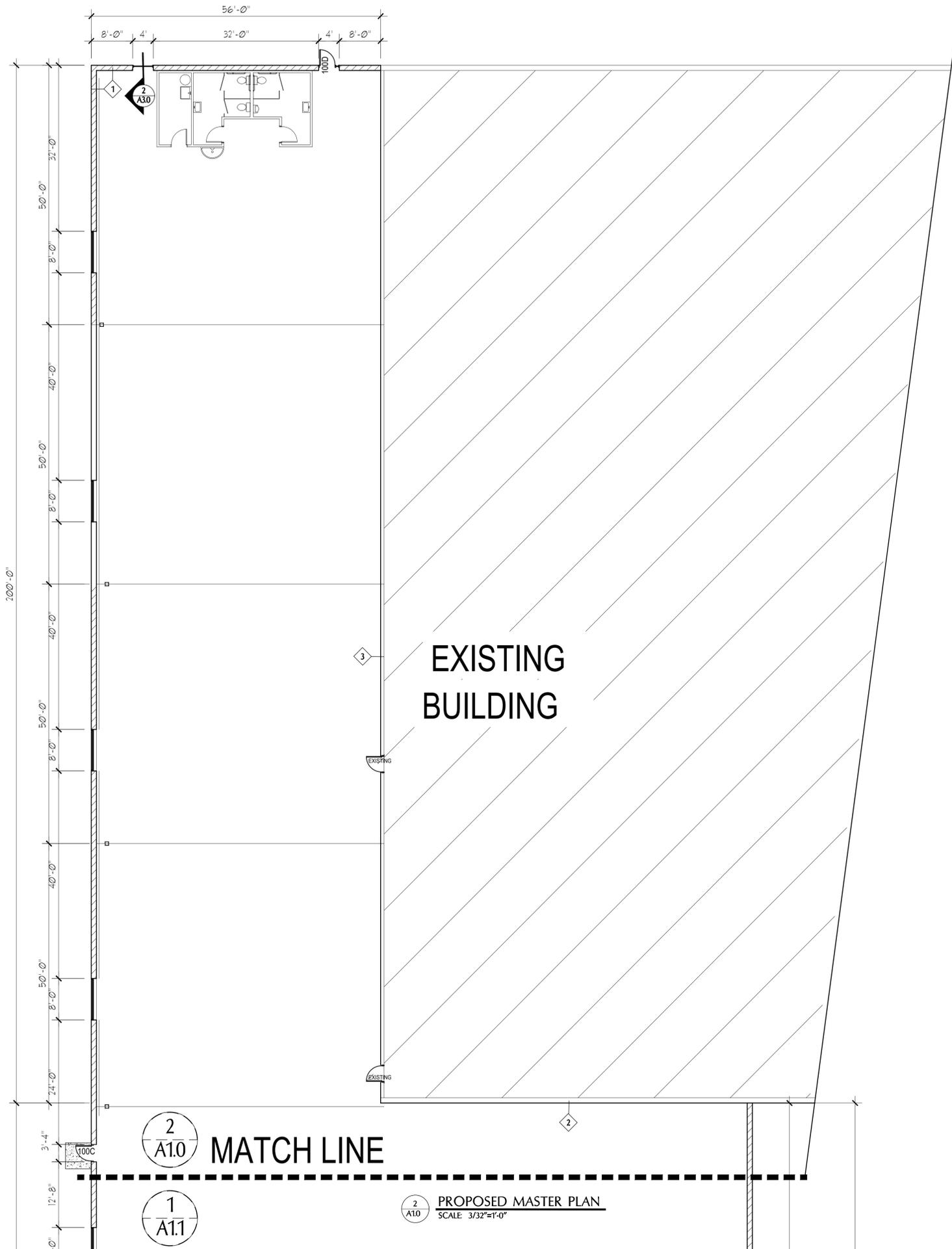
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<b>JOB DESCRIPTION</b>	
TCI/ALLIANT POWER W132 N10611 GRANT DR GERMANTOWN, WI	
<b>DATE</b>	<b>DRAWING DESCRIPTION</b>
7.1.25	SITE PLAN
<b>DESIGNER</b>	F. CARLSON
<b>IMPACT</b> G E N E R A L	
P O BOX 132 OCONOMOWOC, WI 53066 PH262-691-3330	
<b>JOB DESCRIPTION</b>	
TCI/ALLIANT POWER W132 N10611 GRANT DR GERMANTOWN, WI	
<b>SHEET #</b>	A0.1
<b>JOB #</b>	2025-3

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**1**  
A10 PROPOSED MASTER PLAN  
SCALE: 1/32"=1'-0"

WALL TYPES		
NTS		
<b>1</b> NEW EXTERIOR PRECAST WALLS 	<b>2</b> EXISTING EXTERIOR PRECAST WALLS 	<b>3</b> EXISTING EXTERIOR STEEL WALLS 
<small>12" PRECAST WALL PANEL EXPOSED AGGREGATE FINISH AND RAKED FINISH SEE ELEVATIONS SHEET A3.0 &amp; A3.1</small>  <small>NOMINAL DIMENSION: 12" ACTUAL DIMENSION: 12"</small>	<small>12" PRECAST WALL PANEL EXPOSED AGGREGATE FINISH AND RAKED FINISH SEE ELEVATIONS SHEET A3.0 &amp; A3.1</small>  <small>NOMINAL DIMENSION: 12" ACTUAL DIMENSION: 12"</small>	<small>8" STEEL GIRTS HORIZONTAL @ 5' O.C. W/ 1 1/2" PAINTED METAL PANEL FULL HEIGHT INSULATED W/ FIBERGLASS INSULATION</small>  <small>NOMINAL DIMENSION: 8" ACTUAL DIMENSION: 8"</small>



**2**  
A10 MATCH LINE

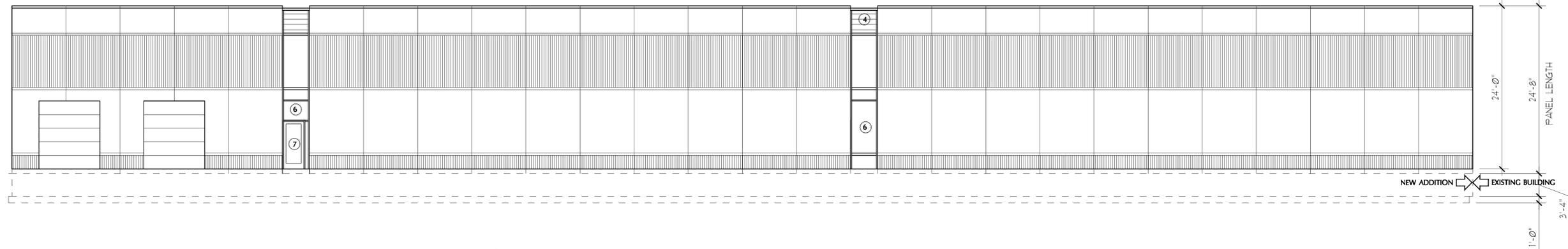
**1**  
A11

**2**  
A10 PROPOSED MASTER PLAN  
SCALE: 3/32"=1'-0"

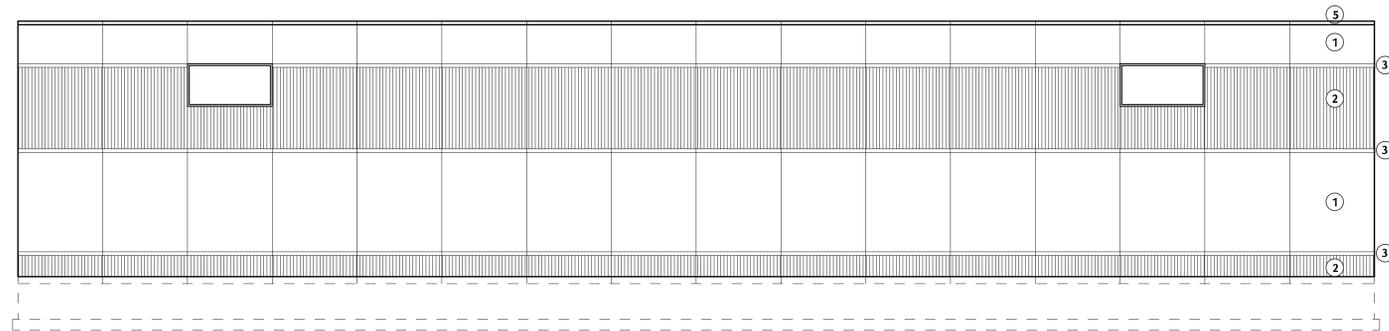
 G E N E R A L	
P O BOX 132 OCONOMOWOC, WI 53066 PH262-691-3330	
JOB DESCRIPTION TCI/ALLIANT POWER W132 N10611 GRANT DR GERMANTOWN, WI	DRAWING DESCRIPTION FLOOR PLAN
DATE 7 1 25	DESIGNER F CARLSON
SHEET # A10	
JOB # 2025-3	
REVISION	



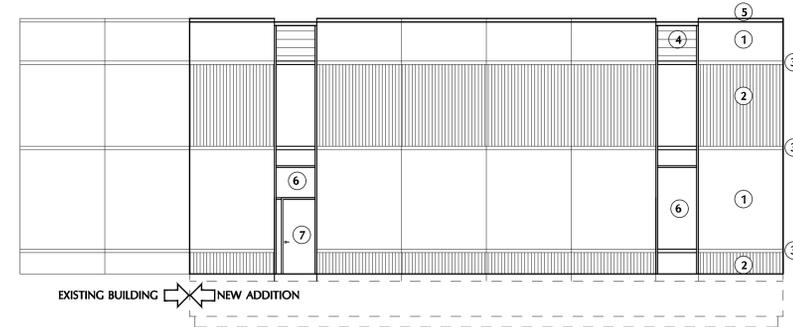
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**EAST ELEVATION**  
SCALE: 1/16"=1'-0"



**SOUTH ELEVATION**  
SCALE: 1/16"=1'-0"



**NORTH ELEVATION**  
SCALE: 1/16"=1'-0"

**EXTERIOR FINISHES**

- ① PRECAST WALL PANEL WITH AGGREGATE FINISH (MATCH EXISTING)
- ② PRECAST WALL PANEL WITH RAKED FINISH (MATCH EXISTING)
- ③ 4" REVEAL CUT IN PANEL (MATCH EXISTING)
- ④ 26 GA METAL PANEL OVER STEEL STUDS (MATCH EXISTING) DRYWALL FINISH INSIDE
- ⑤ 26 GA CLEAR ANODIZED COPING TO MATCH EXISTING
- ⑥ ALUMINIUM FRAMING WITH INSULATED GLASS (MATCH EXISTING)
- ⑦ INSULATED GLASS DOOR ALUMINIUM FRAME (MATCH EXISTING)
- ⑧ PAINTED INSULATED STEEL DOOR

REVISION

JOB DESCRIPTION		DRAWING DESCRIPTION	
TCI/ALIENT POWER W132 N10611 GRANT DR GERMANTOWN, WI		ELEVATIONS	
DATE	7.1.25	DESIGNER	F. CARLSON

P O BOX 132  
OCONOMOWOC, WI 53066  
PH262-691-3330

IMPACT

G E N E R A L

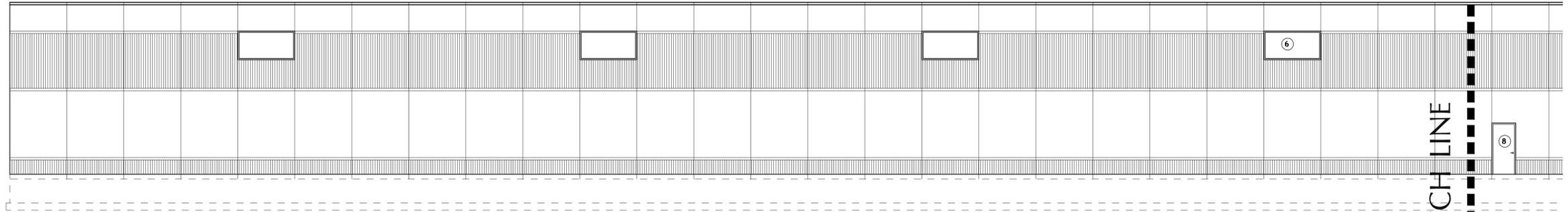
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TCI/ALIENT POWER W132 N10611 GRANT DR GERMANTOWN, WI

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JOB #	2025-3

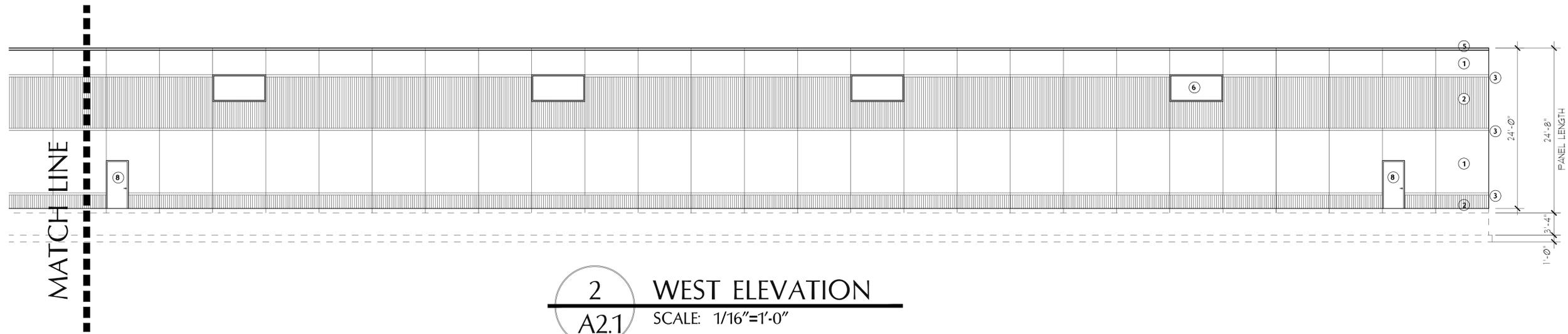
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- ⑦ INSULATED GLASS DOOR ALUMINIUM FRAME (MATCH EXISTING)
- ⑧ PAINTED INSULATED STEEL DOOR



1 **WEST ELEVATION**  
A2.1 SCALE: 1/16"=1'-0"



2 **WEST ELEVATION**  
A2.1 SCALE: 1/16"=1'-0"

REVISION

JOB DESCRIPTION	
TCI/ALLIANT POWER W132 N10611 GRANT DR GERMANTOWN, WI	
DATE	DRAWING DESCRIPTION
7/1/25	ELEVATIONS
DESIGNER	F. CARLSON

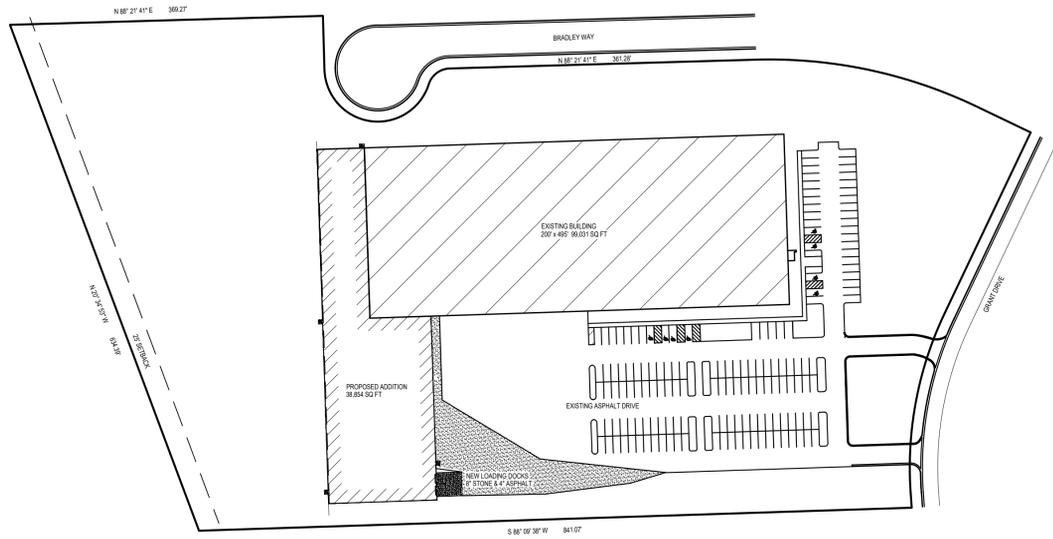
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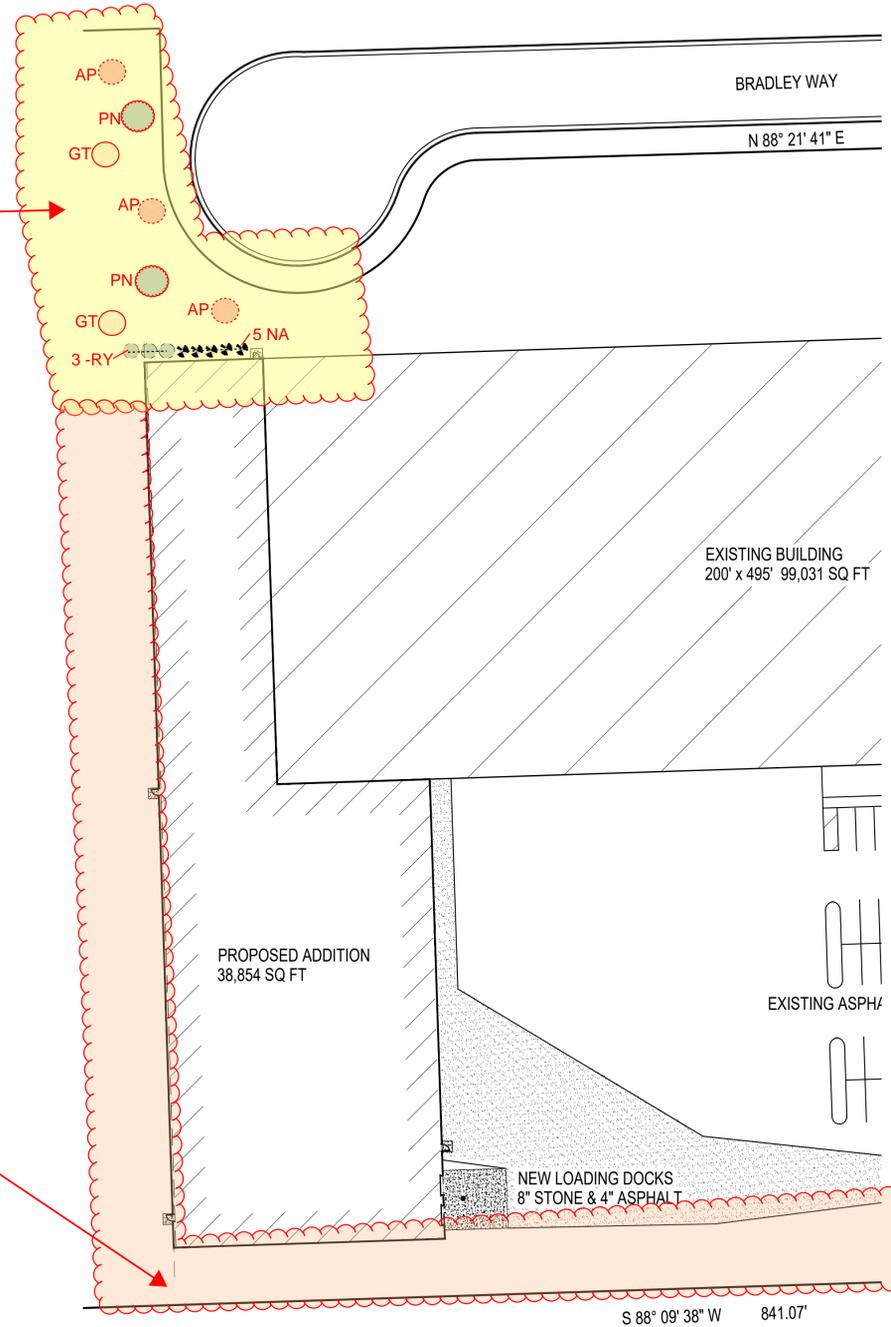
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SHEET #	A2.1
JOB #	2025-3

THIS DRAWING IS THE PROPERTY OF IMPACT GENERAL ANY UNAUTHORIZED USE OR DUPLICATION OF IT IS UNLAWFUL



- PLANT LIST - and Notes**
- AP = Emerald Queen Maple 3" BB (3 Total)
  - GT = Skyline Locust 3" BB (2 Total)
  - PN = Austrian Pine 8' BB (2 total)
  - NA = Nigra Arborvitea - 8' BB (5 total)
  - RY = Dense Yew - 15" (3 total)
- Match Edging and Mulch Materials for all trees and shrub areas.
- Re-establish Lawn area noted in Yellow Shaded Location



See Civil Plan for Drainage Swales and Rework of Areas to provide stormwater Drainage - provide Stone/Rip Rap or Lawn as required

**TREE PROTECTION PLAN**  
- INSTALL SET FENCE ON THE GROUND FOLLOWING THE PROFILE OF THE CANOPY ON THE TREE.

**SITE NOTES**  
- SITE MATERIAL TO BE DISPOSED OF SHALL BE DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

**PLANTING NOTES**

- CUT TIES AT TOP OF ROOTBALL
- CUT TIES AT TOP OF ROOTBALL
- PULL DOWN TOP 1/3 OF BURLAP AROUND ROOTBALL
- 3" MULCH
- FINISH GRADE
- ROOTBALL
- SOIL MIX

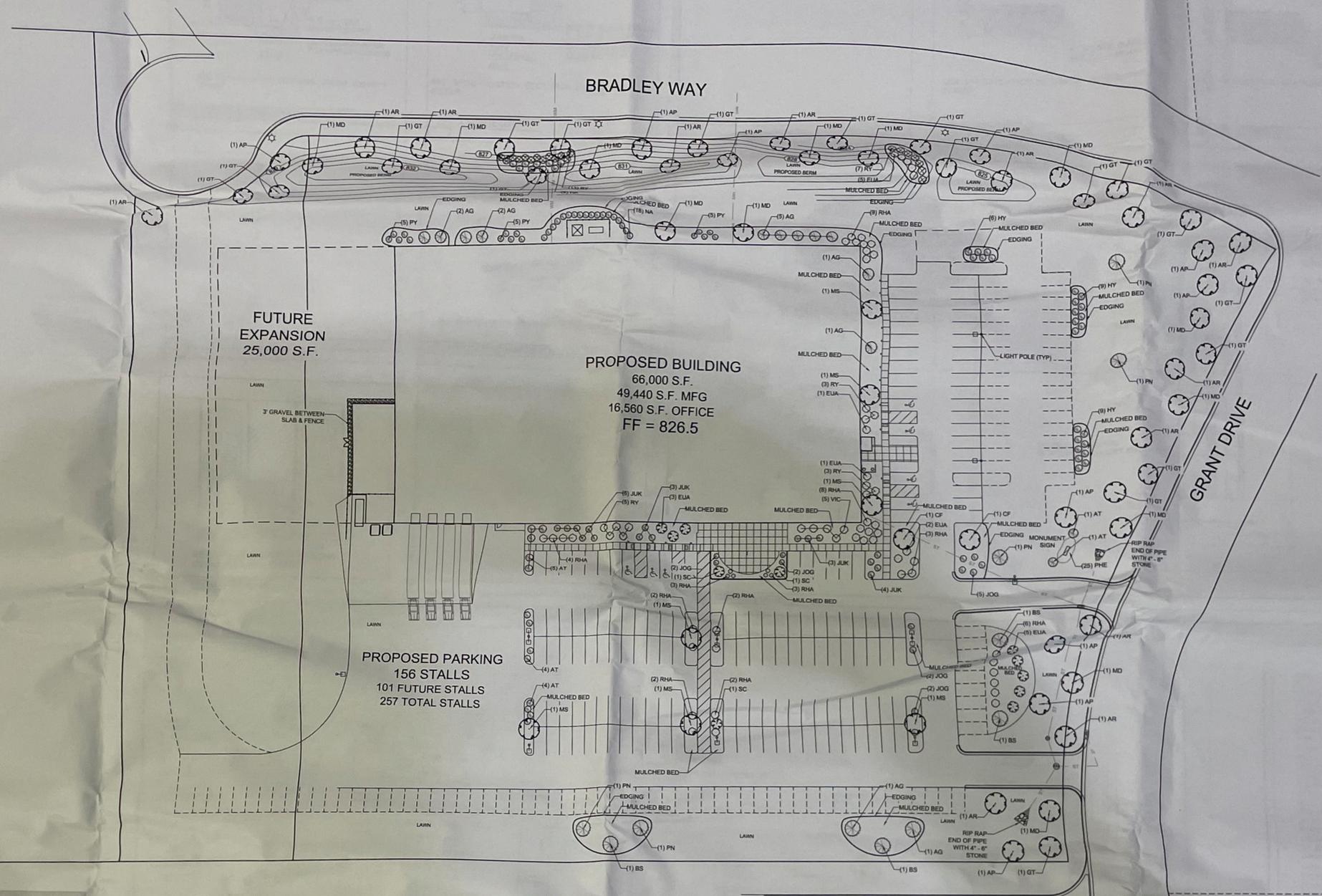
**SHRUB PLANTING DETAIL**

**DECIDUOUS TREE PLANTING DETAIL**

- TRY ALL DEAD & DAMAGED BRANCHES
- SELECT BEST VIEWING ANGLE, LIFT STOCK BY ROOTBALL & PLACE IN PLANTING PIT
- WATER THOROUGHLY AT TIME OF PLANTING & THEREAFTER AS DIRECTED
- SOIL MIX: 1/3 EXISTING SOIL, 1/3 BLACK TOPSOIL, 1/3 COMPOSTED MANURE FEAT 1055
- LOOSEN SUBSOIL WITH PICK TO INSURE POROSITY
- ALL SHRUB BEDS RECEIVE A 2-3" LAYER OF SHREDED HARDWOOD BARK MULCH (OR BROWN ENVIRONMENTAL MULCH). EDGE ALL BEDS WITH 4" DEEP SHOVEL SPADED EDGE.
- STAKE INTO GROUND AT A MINIMUM DEPTH OF 3'-0", 3" PIER TREE AND NAIL ON "SEAT BELT" STRAPPING FIRMLY ATTACHED TO STAKE
- TREE WRAP TO FIRST BRANCH
- CUT TIES AT TOP OF ROOTBALL
- PULL DOWN TOP 1/3 OF BURLAP AROUND ROOTBALL
- 3" MULCH
- NEST BALL OF TREE ON FIRM DOME OF SUBSOIL TO INSURE THAT TREE DOES NOT LOOSEN WITH SOIL SETTLEMENT

REVISION	
JOB DESCRIPTION	TCI/ALIENT POWER W132 N10611 GRANT DR GERMANTOWN, WI
DRAWING DESCRIPTION	LANDSCAPE PLAN
DATE	7.1.25
DESIGNER	F. CARLSON
P O BOX 132	OCONOMOWOC, WI 53066
	PH262-691-3330
JOB DESCRIPTION	TCI/ALIENT POWER W132 N10611 GRANT DR GERMANTOWN, WI
SHEET #	LS10
JOB #	2025-3





FRONTAGE = 1150 FT  
STREET TREES REQUIRED = 46  
STREET TREES PROVIDED = 46  
PREVIOUS PLAN (4/5/13) = 28

**PLANT MATERIAL SCHEDULE**

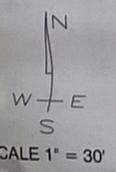
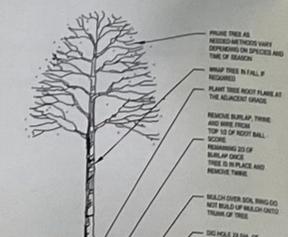
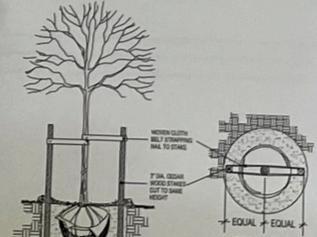
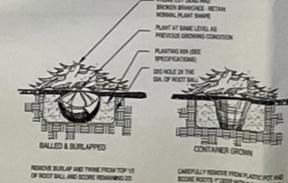
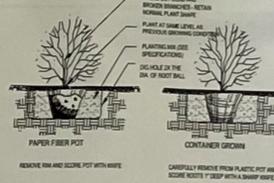
\*Landscape contractor responsible for verifying plant quantities

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	INS TALL	MAINTAINED SIZE	ROOT
<b>SHADE TREES</b>						
9	AP	<i>Acer platanoides</i>	Norway Maple	3" cal	40'-50'	BB
17	GT	<i>Gleditsia inaequalis</i>	Shapermaster Honeylocust	3" cal	30'-40'	BB
11	AR	<i>Acer rubrum 'Autumn Flame'</i>	Autumn Flame Maple	3" cal	35'	BB
<b>ORNAMENTAL TREES</b>						
7	MS	<i>Magnolia stellata</i>	Star Magnolia	5" cal	10-15'	BB
3	CF	<i>Comus florida var. rubra</i>	Flowering Pink Dogwood	3" cal	30'-35'	BB
12	MD	<i>Magnolia x soul-merci</i>	Dr. Merrill Magnolia	3" cal	25'	BB
<b>DECIDUOUS SHRUBS</b>						
2	SC	<i>Syringa chinensis</i>	Chinese Lilac	2" cal	8'-12'	BB
44	RHA	<i>Rhus aromatica 'groboval'</i>	Geo Low Fragrant Sumac	18'-24"	3'	POT
17	EUA	<i>Euonymus alata 'compactum'</i>	Dwarf Burning Bush	24'-30"	5'-6'	BB
8	VIC	<i>Viburnum cerasifolium 'compactum'</i>	Compact Koreanspice Viburnum	24'-30"	4'-5'	POT
<b>EVERGREEN SHRUBS</b>						
13	JOG	<i>Juniperus chinensis 'old gold'</i>	Old Gold Juniper	2 Gal	2'-3'	POT
44	JJK	<i>Juniperus chinensis 'Kally's Compact'</i>	Kally's Compact Juniper	2 Gal	2'-3'	POT
31	RY	<i>Taxus x media 'hayesii'</i>	Hayesii Yew	3 Gal	3'-4'	POT
9	HP	<i>Rhododendron catawbiense</i>	Hardy Purple Rhododendron	3 Gal	8'-10'	POT
24	HY	<i>Taxus x media 'tickal'</i>	Tickal Yew	3 Gal	5'-6'	POT
<b>EVERGREEN TREES</b>						
5	PN	<i>Pinus Nigra</i>	Austrian Pine	8" HTT	20'-25'	BB
15	AT	<i>Thuja occidentalis 'Tectony'</i>	Tectony Arborvitae	4" HTT	8'-10'	BB
5	PG	<i>Picea pungens 'glauca'</i>	Colorado Blue Spruce	8" HTT	20'-30'	BB
16	NA	<i>Thuja occidentalis 'nigra'</i>	Nigra Dark Green Arborvitae	8" HTT	15'-20'	BB
11	AG	<i>Thuja occidentalis 'george peabody'</i>	George Peabody Arborvitae	8" HTT	15'-20'	BB
15	PY	<i>Thuja occidentalis 'pyramidalis'</i>	Arborvitae Pyramidalis	8" HTT	30'	BB
4	BS	<i>Picea glauca 'blumkapi'</i>	Black Hills Spruce	8" HTT	20'-25'	BB
<b>PERENNIALS</b>						
25	PHE	<i>Hemerocallis</i>	Daylily, Mixed Hybrids	4.5"	POT	24" Spacing

**GENERAL NOTES:**

1. ALL FINISHED GRADES TO BE 1 INCH BELOW TOP OF CURBS OR PAVEMENT
2. BACKFILL AND GRADE ALL PLANTING AREAS WITH MINIMUM 4 INCHES BLENDED TOPSOIL
3. ALL PLANT MATERIAL SHALL CONFORM TO AMERICAN STANDARD FOR NURSERY STOCK
4. ALL TREES NOT IN A PLANTING BED SHALL BE MULCHED WITH A MINIMUM 1 FOOT RADIUS FOR EACH 1 INCH CALIPER. USE SHREDDED HARDWOOD MULCH AT 2 INCHES DEPTH.
5. PROVIDE MINIMUM 2 YEAR WARRANTY ON ALL PLANT MATERIAL.
6. USE SHREDDED HARDWOOD MULCH IN ALL PLANTING BEDS AT MINIMUM 2 INCHES DEPTH.
7. ALL PLANTING BEDS TO BE EDGED WITH COMMERCIAL GRADE PLASTIC EDGING.

LAWN GRASS SEED MIX SHALL BE PLACED USING HYDRO-SEEDING OR OTHER APPROVED METHODS. GRASS SEED MIX SHALL BE NO MORE THAN 50% KENTUCKY BLUEGRASS WITH THE REMAINING 50% TO BE AN EQUAL PARTS COMBINATION OF PERENNIAL RYE, FINE FESCUE AND TALL FESCUE. ESTABLISH MINIMUM OF 4 INCH BLENDED TOPSOIL PRIOR TO PLACING SEED MIX.



**DAAR ENGINEERING, INC.**  
ENGINEERS PLANNERS SURVEYORS  
312 EAST CHICAGO STREET, SUITE 500  
MILWAUKEE, WI 53202  
PHONE (414) 225-9817 FAX (414) 225-9828  
www.daarengineering.com

**OWNER**  
MacArthur Partners, LLC  
c/o Irgens Partners, LLC  
10200 Innovation Drive, Suite 500  
Milwaukee, Wisconsin 53226

**TENANT**  
TCI, LLC (current location)  
7878 North 80th Street  
Milwaukee, Wisconsin 53224

**TENANTS REPRESENTATIVE**  
Mannedge Consulting, LLC  
2906 West Lake Park Court  
Maquon, Wisconsin 53092

**MANNEDGE**  
An Owner's Representative

**PROJECT ADDRESS:**  
PROJECT NAME: Trans-Coil, LLC.  
STREET ADDRESS: S.E. Corner Bradley Way/Grant Drive  
CITY/STATE / ZIP: Garmtstown, Wisconsin

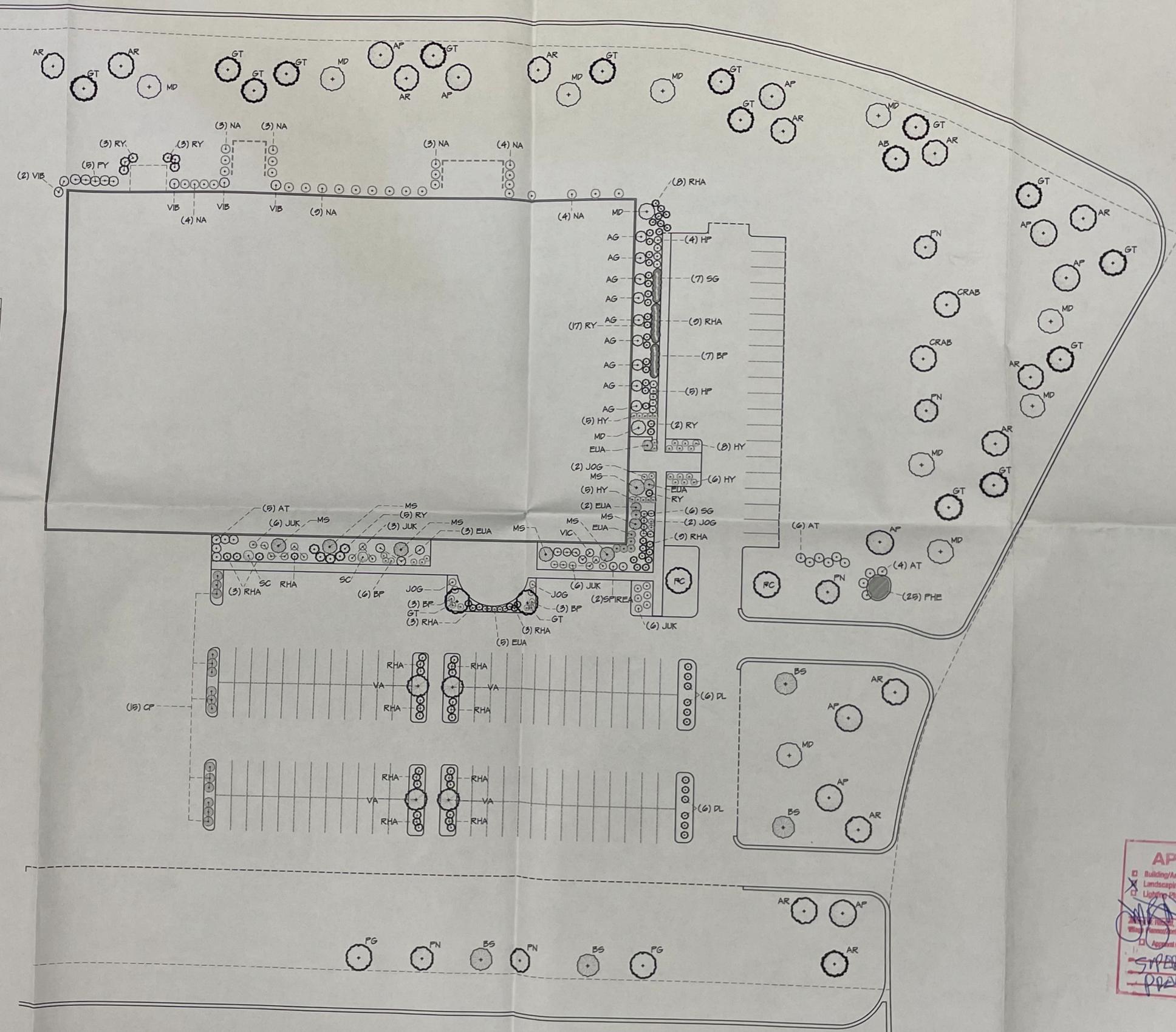
ALL WORK TO BE COMPLETED AS SHOWN, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE MSI GENERAL MASTER SPECIFICATION

Date: 03.27.2013  
Drawn By: d.j.frost, jr.

Sheet Title: **LANDSCAPE PLAN**  
Sheet Number: **C-105**  
Project Number: **4345**

**TRANS-COIL LLC**  
W132 N10611 GRANT DR. - GERMANTOWN, WI

Plant List					
Plant Type	Symbol	Botanical Name	Common Name	Size	Quantity
<b>Deciduous Trees</b>					
	AP	Acer platanoides 'Superform'	Emerald Queen Maple	3" BB	10
	GT	Gleditsia tricanthos 'Skyline'	Skyline Honeylocust	3" BB	18
	AR	Acer freemanii 'Jeffersred'	Autumn Blaze Maple	3" BB	13
	AB	Acer freemanii 'Jeffersred'	Autumn Blaze Maple	2.5" BB	2
<b>Ornamental Trees</b>					
	MS	Magnolia stellata	Star Magnolia	3" BB	7
	CF	Malus Sp.	Crabapple Prairie Fire	3" BB	2
	MD	Magnolia Merrill	Dr. Merrill Magnolia	3" BB	13
	PC	Pyrus calleryana 'Chanticleer'	Chanticleer Pear	2.5" BB	2
<b>Evergreen Trees</b>					
	PN	Pinus nigra	Austrian Pine	8" BB	5
	AT	Thuja occidentalis 'Techny'	Techny Arborvitae	4" BB	15
	PG	Picea pungens 'Glauca'	Colorado Blue Spruce	8" BB	2
	NA	Thuja occidentalis 'Nigra'	Nigra Arborvitae	8" BB	30
	AG	Thuja occidentalis 'Nigra'	Nigra Arborvitae	6" BB	9
	PY	Thuja occidentalis 'Pyramidalis'	Arborvitae pyramidalis	8" BB	5
	BS	Picea glauca 'Densata'	Black Hills Spruce	8" BB	4
<b>Evergreen Shrubs</b>					
	JOG	Juniperus Chinensis 'Old Gold'	Old Gold Juniper	15" P	14
	JUK	Juniperus chinensis 'Kallay'	Juniper Kallay	15" P	15
	RY	Taxus media 'Runyan'	Dense Yew	15" P	31
	HP	Rhododendron 'PJM'	PJM	15" P	9
	HY	Yew media 'Hicks'	Hicks Yew	15" P	24
	JS	Juniperus chinensis 'Sargent'	Sargent Juniper	15" P	2
<b>Deciduous Shrubs</b>					
	SC	Syringa meyeri 'Palibin'	Dwarf Korean Lilac	24" P	2
	RHA	Rhus aromatica 'Gro-lo'	Gro-lo Sumac	15" P	60
	EUA	Eunoymus alatus 'Compact'	Compact Burning Bush	24" BB	17
	VC	Viburnum Carlesii 'Compact'	Compact Viburnum	24" P	5
	BP	Berberis thunbergii 'Pygmy'	Pygmy Barberry	15" P	19
	CP	Cotoneaster acutifolia	Peking Cotoneaster	3" P	15
	DL	Diervilla lonicera	Dwarf Bush Honeysuckle	15" P	12
	SG	Spirea bumalda 'Goldmound'	Spirea Goldmound	15" P	16
	VA	Viburnum dentatum	Arrowwood	3" P	9
<b>Perennials</b>					
	PHE	Hemerocallis Sp.	Daylily Stella d'Oro	14" P	25



**APPROVED**

Building/Arch Plan  
 Landscaping Plan  
 Lighting Plan

Site Plan  
 Sign Plan  
 Zoning Permit

7/29/14  
 Date Approved  
 S.M. LARSEN  
 PRINCE PLAN

**RECEIVED**

JUL 23 2014

OFFICE OF THE VILLAGE PLANNER  
VILLAGE OF GERMANTOWN



This plan is the property of Hawks Landscape and cannot be used without written permission.

Designed By \_\_\_\_\_

Date \_\_\_\_\_

Scale 1" = 30'

Revisions:

Date: By: Description:

6.10 S.H. MISC.

Sheet #: \_\_\_\_\_ of \_\_\_\_\_

Project: \_\_\_\_\_

11" E 369.27'

BRADLEY WAY

N 88%°D 21' 41" E 361.28'

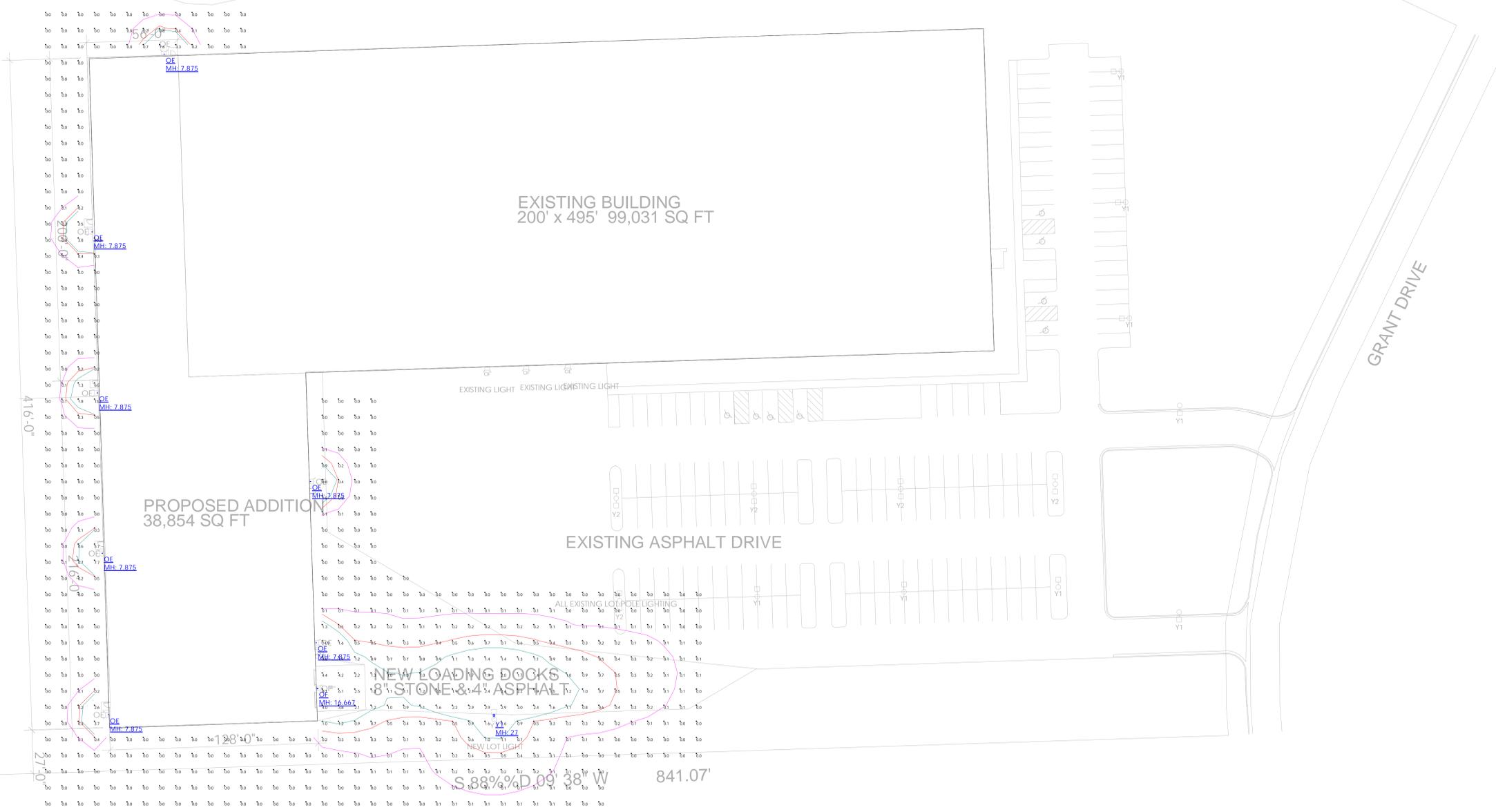
EXISTING BUILDING  
200' x 495' 99,031 SQ FT

PROPOSED ADDITION  
38,854 SQ FT

EXISTING ASPHALT DRIVE

NEW LOADING DOCKS  
8' STONE & 4' ASPHALT

GRANT DRIVE



Luminaire Schedule					
Symbol	Qty	Label	Manufacturer	Description	Arrangement
	7	OE	LUMARK	XTOR3B-W	Single
	1	OF	LUMARK	XTOR6B-W	Single
	1	Y1	MCGRAW EDISON	GALN-SA3A-740-U-T2 WITH 25FT POLE	Single

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
CalcPts_1	Illuminance	Fc	0.43	14.9	0.0	N.A.



#	Date	Comments

Revisions

Drawn By: MB  
Project #: 158035  
Date: 6/30/2025  
Scale: 1" = 30'-0"

PHOTOMETRIC SITE PLAN  
TRANS-COIL LLC  
WI

1. STANDARD REFLECTANCE OF 80/50/20 UNLESS NOTED OTHERWISE.  
2. NOT A CONSTRUCTION DOCUMENT- FOR DESIGN PURPOSES ONLY.  
3. STANDARD INDOOR CALC POINTS @ 30" AFF UNLESS NOTED OTHERWISE.  
4. STANDARD OUTDOOR CALC POINTS @ GRADE UNLESS NOTED OTHERWISE.  
5. EGRESS CALC POINTS @ 0'-0" AFF.  
6. PHOTOMETRICS ARE ESTIMATED LIGHTING CALCULATIONS.  
VIKING ELECTRIC ASSUMES NO RESPONSIBILITY FOR INSTALLED LIGHT LEVELS DUE TO FIELD CONDITIONS.  
7. VIKING ELECTRIC NOT RESPONSIBLE FOR FINAL REVIEW OF CODE REQUIREMENTS.

## DESCRIPTION

The patented Lumark Crosstour™ LED Wall Pack Series of luminaires provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

## SPECIFICATION FEATURES

### Construction

Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and medium design. The small housing is available in 12W, 18W and 26W. The medium housing is available in the 38W model. Patented secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three half-inch, NPT threaded conduit entry points. The universal back box supports both the small and medium forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

### Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Available in seven lumen packages; 5000K, 4000K and 3000K CCT.

### Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 12W, 18W, 26W and 38W series operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Three half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

electrical wiring compartment.

Integral LED electronic driver is standard 0-10V dimming. 120-277V 50/60Hz or 347V 60Hz models.

### Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life. Options to meet Buy American and other domestic preference requirements.

### Warranty

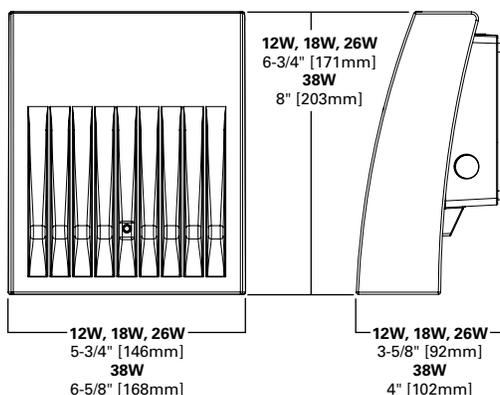
Five-year warranty.



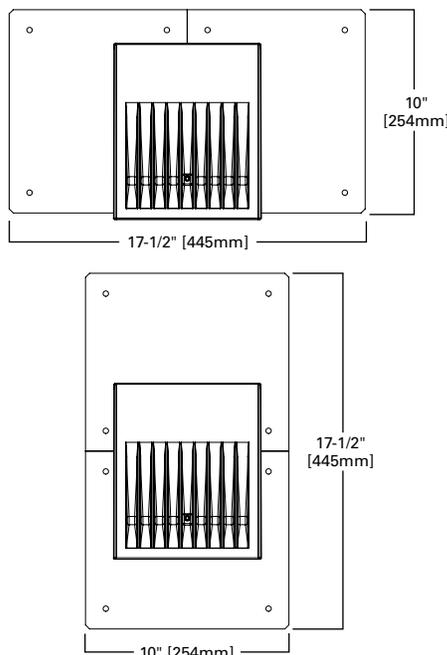
## XTOR CROSSTOUR LED

**APPLICATIONS:**  
WALL / SURFACE  
POST / BOLLARD  
LOW LEVEL  
FLOODLIGHT  
INVERTED  
SITE LIGHTING

## DIMENSIONS



## ESCUTCHEON PLATES



## CERTIFICATION DATA

Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)  
UL/cUL Wet Location Listed  
LM79 / LM80 Compliant  
ROHS Compliant  
ADA Compliant  
NOM Compliant Models  
IP66 Ingress Protection Rated  
Title 24 Compliant  
DesignLights Consortium® Qualified\*

## TECHNICAL DATA

40°C Maximum Ambient Temperature  
External Supply Wiring 90°C Minimum

## EPA

Effective Projected Area (Sq. Ft.):  
XTOR1B, XTOR2B, XTOR3B=0.34  
XTOR4B=0.45

## SHIPPING DATA:

Approximate Net Weight:  
3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]

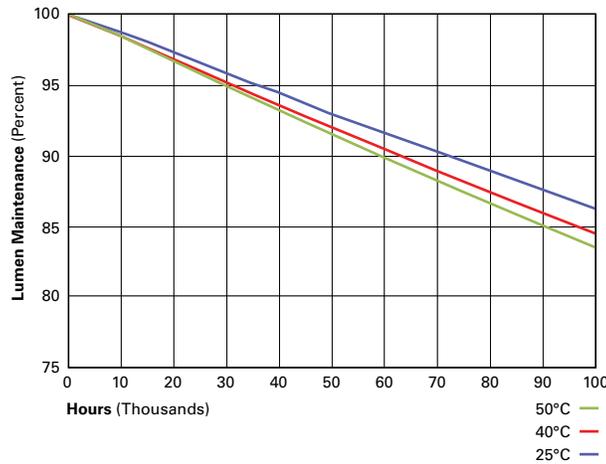
**POWER AND LUMENS BY FIXTURE MODEL**

LED Information	XTOR1B	XTOR1B-W	XTOR1B-Y	XTOR2B	XTOR2B-W	XTOR2B-Y	XTOR3B	XTOR3B-W	XTOR3B-Y	XTOR4B	XTOR4B-W	XTOR4B-Y
Delivered Lumens (Wall Mount)	1,418	1,396	1,327	2,135	2,103	1,997	2,751	2,710	2,575	4,269	4,205	3,995
Delivered Lumens (With Flood Accessory Kit) <sup>1</sup>	1,005	990	940	1,495	1,472	1,399	2,099	2,068	1,965	3,168	3,121	2,965
B.U.G. Rating <sup>2</sup>	B1-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0								
CCT (Kelvin)	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000
CRI (Color Rendering Index)	70	70	70	70	70	70	70	70	70	70	70	70
Power Consumption (Watts)	12W	12W	12W	18W	18W	18W	26W	26W	26W	38W	38W	38W

NOTES: 1 Includes shield and visor. 2 B.U.G. Rating does not apply to floodlighting.

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
<b>XTOR1B Model</b>		
25°C	> 90%	255,000
40°C	> 89%	234,000
50°C	> 88%	215,000
<b>XTOR2B Model</b>		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
<b>XTOR3B Model</b>		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
<b>XTOR4B Model</b>		
25°C	> 89%	222,000
40°C	> 87%	198,000
50°C	> 87%	184,000



**CURRENT DRAW**

Voltage	Model Series			
	XTOR1B	XTOR2B	XTOR3B	XTOR4B
120V	0.103A	0.15A	0.22A	0.34A
208V	0.060A	0.09A	0.13A	0.17A
240V	0.053A	0.08A	0.11A	0.17A
277V	0.048A	0.07A	0.10A	0.15A
347V	0.039A	0.06A	0.082A	0.12A

**ORDERING INFORMATION**

Sample Number: XTOR2B-W-WT-PC1

Series <sup>1</sup>	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately) <sup>8</sup>
<b>XTOR1B</b> =Small Door, 12W <b>XTOR2B</b> =Small Door, 18W <b>XTOR3B</b> =Small Door, 26W <b>XTOR4B</b> =Medium Door, 38W <b>BAA-XTOR1B</b> =Small Door, 12W, Buy American Act Compliant <sup>7</sup> <b>TAA-XTOR1B</b> =Small Door, 12W Trade Agreements Act Compliant <sup>7</sup> <b>BAA-XTOR2B</b> =Small Door, 18W, Buy American Act Compliant <sup>7</sup> <b>TAA-XTOR2B</b> =Small Door, 18W, Trade Agreements Act Compliant <sup>7</sup> <b>BAA-XTOR3B</b> =Small Door, 26W, Buy American Act Compliant <sup>7</sup> <b>TAA-XTOR3B</b> =Small Door, 26W, Trade Agreements Act Compliant <sup>7</sup> <b>BAA-XTOR4B</b> =Medium Door, 38W, Buy American Act Compliant <sup>7</sup> <b>TAA-XTOR4B</b> =Medium Door, 38W, Trade Agreements Act Compliant <sup>7</sup>	<b>[Blank]</b> =Bright White (Standard), 5000K <b>W</b> =Neutral White, 4000K <b>Y</b> =Warm White, 3000K	<b>[Blank]</b> =Carbon Bronze (Standard) <b>WT</b> =Summit White <b>BK</b> =Black <b>BZ</b> =Bronze <b>AP</b> =Grey <b>GM</b> =Graphite Metallic <b>DP</b> =Dark Platinum	<b>PC1</b> =Photocontrol 120V <sup>2</sup> <b>PC2</b> =Photocontrol 208-277V <sup>2,3</sup> <b>347V</b> =347V <sup>4</sup> <b>HA</b> =50°C High Ambient <sup>4</sup>	<b>WG/XTOR</b> =Wire Guard <sup>5</sup> <b>XTORFLD-KNC</b> =Knuckle Floodlight Kit <sup>6</sup> <b>XTORFLD-TRN</b> =Trunnion Floodlight Kit <sup>6</sup> <b>XTORFLD-KNC-WT</b> =Knuckle Floodlight Kit, Summit White <sup>6</sup> <b>XTORFLD-TRN-WT</b> =Trunnion Floodlight Kit, Summit White <sup>6</sup> <b>EWP/XTOR</b> =Escutcheon Wall Plate, Carbon Bronze <b>EWP/XTOR-WT</b> =Escutcheon Wall Plate, Summit White

**NOTES:**

- DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
- Photocontrols are factory installed.
- Order PC2 for 347V models.
- Thru-branch wiring not available with HA option or with 347V. XTOR3B not available with HA and 347V or 120V combination.
- Wire guard for wall/surface mount. Not for use with floodlight kit accessory.
- Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.
- Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
- Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

**STOCK ORDERING INFORMATION**

Domestic Preferences <sup>1</sup>	12W Series	18W Series	26W Series	38W Series
<b>[Blank]</b> =Standard	<b>XTOR1B</b> =12W, 5000K, Carbon Bronze	<b>XTOR2B</b> =18W, 5000K, Carbon Bronze	<b>XTOR3B</b> =26W, 5000K, Carbon Bronze	<b>XTOR4B</b> =38W, 5000K, Carbon Bronze
<b>BAA</b> =Buy American Act	<b>XTOR1B-WT</b> =12W, 5000K, Summit White	<b>XTOR2B-W</b> =18W, 4000K, Carbon Bronze	<b>XTOR3B-W</b> =26W, 4000K, Carbon Bronze	<b>XTOR4B-W</b> =38W, 4000K, Carbon Bronze
<b>TAA</b> =Trade Agreements Act	<b>XTOR1B-PC1</b> =12W, 5000K, 120V PC, Carbon Bronze	<b>XTOR2B-WT</b> =18W, 5000K, Summit White	<b>XTOR3B-WT</b> =26W, 5000K, Summit White	<b>XTOR4B-WT</b> =38W, 5000K, Summit White
	<b>XTOR1B-W</b> =12W, 4000K, Carbon Bronze	<b>XTOR2B-PC1</b> =18W, 5000K, 120V PC, Carbon Bronze	<b>XTOR3B-PC1</b> =26W, 5000K, 120V PC, Carbon Bronze	<b>XTOR4B-PC1</b> =38W, 5000K, 120V PC, Carbon Bronze
		<b>XTOR2B-W-PC1</b> =18W, 4000K, 120V PC, Carbon Bronze	<b>XTOR3B-W-PC1</b> =26W, 4000K, 120V PC, Carbon Bronze	<b>XTOR4B-W-PC1</b> =38W, 4000K, 120V PC, Carbon Bronze
		<b>XTOR2B-347V</b> =18W, 5000K, Carbon Bronze, 347V	<b>XTOR3B-347V</b> =26W, 5000K, Carbon Bronze, 347V	<b>XTOR4B-347V</b> =38W, 5000K, Carbon Bronze, 347V
		<b>XTOR2B-WT-PC1</b> =18W, 5000K, 120V PC, Summit White	<b>XTOR3B-PC2</b> =26W, 5000K, 208-277V PC, Carbon Bronze	

**NOTES:**

- Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

## DESCRIPTION

The patented Lumark Crosstour™ MAXX LED wall pack series of luminaires provides low-profile architectural style with super bright, energy-efficient LEDs. The rugged die-cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour impervious to contaminants. The Crosstour MAXX wall luminaire is ideal for wall/surface, inverted mount for facade/canopy illumination, perimeter and site lighting. Typical applications include pedestrian walkways, building entrances, multi-use facilities, industrial facilities, perimeter parking areas, storage facilities, institutions, schools and loading docks.

## SPECIFICATION FEATURES

### Construction

Low-profile LED design with rugged one-piece, die-cast aluminum back box and hinged removable door. Matching housing styles incorporate both a full cutoff and refractive lens design. Full cutoff and refractive lens models are available in 58W, 81W and 102W. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes four 1/2" NPT threaded conduit entry points. The back box is secured by four lag bolts (supplied by others). External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Not recommended for car wash applications.

### Optical

Silicone sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Full cutoff models integrate an impact-resistant molded refractive prism optical lens assembly meeting requirements for Dark Sky compliance. Refractive lens models incorporate a molded lens

assembly designed for maximum forward throw. Solid state LED Crosstour MAXX luminaires are thermally optimized with eight lumen packages in cool 5000K, neutral 4000K, or warm 3000K LED color temperature (CCT).

### Electrical

LED driver is mounted to the die-cast aluminum housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 58W, 81W and 102W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C [122°F] models available in 58W and 81W models only. Crosstour MAXX luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Four half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz, 480V 60Hz, or 347V 60Hz electrical operation. 480V is compatible for use with 480V Wye systems only.

### Emergency Egress

Optional integral cold weather battery emergency egress includes emergency operation test switch (available in 58W and 81W models only), an AC-ON indicator light and a premium extended rated sealed maintenance-free nickel-metal hydride battery pack. The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting.

### Finish

Crosstour MAXX is protected with a super TGIC carbon bronze or summit white polyester powder coat paint. Super TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life. Options to meet Buy American and other domestic preference requirements.

### Warranty

Five-year warranty.



## XTOR CROSSTOUR MAXX LED

APPLICATIONS:  
WALL / SURFACE  
INVERTED  
SITE LIGHTING



### CERTIFICATION DATA

UL/cUL Wet Location Listed  
Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)  
DesignLights Consortium® Qualified\*  
LM79 / LM80 Compliant  
ROHS Compliant  
NOM Compliant Models  
3G Vibration Tested  
UL924 Listed (CBP Models)  
IP66 Rated

### TECHNICAL DATA

40°C Ambient Temperature  
External Supply Wiring 90°C Minimum

### EPA

Effective Projected Area (Sq. Ft.):  
XTOR6B, XTOR8B, XTOR12B=0.54

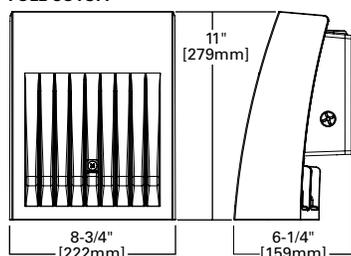
### SHIPPING DATA:

Approximate Net Weight:  
12-15 lbs. [5.4-6.8 kgs.]

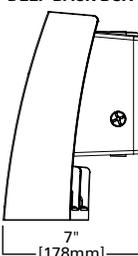
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## DIMENSIONS

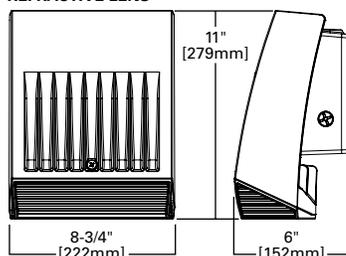
### FULL CUTOFF



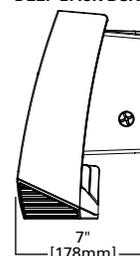
### DEEP BACK BOX



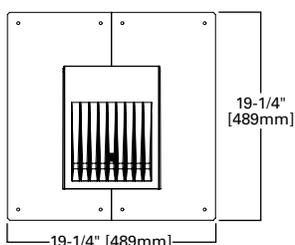
### REFRACTIVE LENS



### DEEP BACK BOX



## ESCUTCHEON PLATES

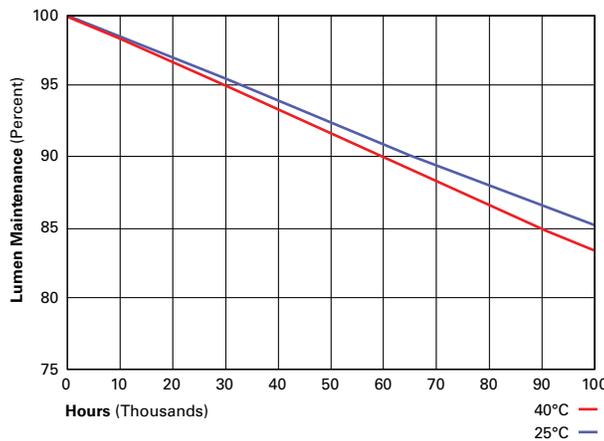


**POWER AND LUMENS BY FIXTURE MODEL**

58W Series						
LED Information	XTOR6B	XTOR6BRL	XTOR6B-W	XTOR6BRL-W	XTOR6B-Y	XTOR6BRL-Y
Delivered Lumens	6,129	6,225	6,038	6,133	5,611	5,826
B.U.G. Rating	B1-U0-G1	B2-U4-G3	B1-U0-G1	B2-U4-G3	B1-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	58W	58W	58W	58W	58W	58W
81W Series						
LED Information	XTOR8B	XTOR8BRL	XTOR8B-W	XTOR8BRL-W	XTOR8B-Y	XTOR8BRL-Y
Delivered Lumens	8,502	8,635	8,373	8,504	7,748	8,079
B.U.G. Rating	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	81W	81W	81W	81W	81W	81W
102W Series						
LED Information	XTOR12B	XTOR12BRL	XTOR12B-W	XTOR12BRL-W	XTOR12B-Y	XTOR12BRL-Y
Delivered Lumens	12,728	13,458	12,539	13,258	11,861	12,595
B.U.G. Rating	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3	B2-U0-G1	B2-U4-G3
CCT (Kelvin)	5000K	5000K	4000K	4000K	3000K	3000K
CRI (Color Rendering Index)	70	70	70	70	70	70
Power Consumption (Watts)	102W	102W	102W	102W	102W	102W
EGRESS Information	XTOR6B and XTOR8B Full Cutoff CBP Egress LED			XTOR6B and XTOR8B Refractive Lens CBP Egress LED		
Delivered Lumens	509			468		
B.U.G. Rating	N.A.			N.A.		
CCT (Kelvin)	4000K			4000K		
CRI (Color Rendering Index)	65			65		
Power Consumption (Watts)	1.8W			1.8W		

**LUMEN MAINTENANCE**

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
<b>XTOR6B Model</b>		
25°C	> 90%	246,000
40°C	> 88%	217,000
50°C	> 88%	201,000
<b>XTOR8B Model</b>		
25°C	> 89%	219,000
40°C	> 87%	195,000
50°C	> 86%	181,000
<b>XTOR12B Model</b>		
25°C	> 89%	222,000
40°C	> 87%	198,000



**CURRENT DRAW**

Voltage	Model Series				
	XTOR6B	XTOR8B	XTOR12B	XTOR6B-CBP (Fixture/Battery)	XTOR8B-CBP (Fixture/Battery)
120V	0.51	0.71	0.94	0.60/0.25	0.92/0.25
208V	0.25	0.39	0.52	--	--
240V	0.25	0.35	0.45	--	--
277V	0.22	0.31	0.39	0.36/0.21	0.50/0.21
347V	0.19	0.25	0.33		--
480V	0.14	0.19	0.24		--



Cooper Lighting Solutions  
 1121 Highway 74 South  
 Peachtree City, GA 30269  
 P: 770-486-4800  
 www.cooperlighting.com

Specifications and dimensions subject to change without notice.

**ORDERING INFORMATION**

Sample Number: XTOR6B-W-WT-PC1

Domestic Preferences <sup>17</sup>	Series <sup>1</sup>	LED Kelvin Color	Housing Color	Options (Add as Suffix)
[Blank]=Standard BAA=Buy American Act TAA=Trade Agreements Act	Full Cutoff XTOR6B=58W XTOR8B=81W XTOR12B=102W  Refractive Lens XTOR6BRL=58W XTOR8BRL=81W XTOR12BRL=102W	[Blank]=Bright White (Standard) 5000K W=Neutral, 4000K Y=Warm, 3000K	[Blank]=Carbon Bronze (Standard) WT=Summit White BK=Black BZ=Bronze AP=Grey GM=Graphite Metallic DP=Dark Platinum	347V=347V <sup>2,3,4,5</sup> 480V=480V <sup>2,3,4,5,6</sup> PC1=Photocontrol 120V <sup>7</sup> PC2=Photocontrol 208-277V <sup>7,8</sup> MS-L20=Motion Sensor for ON/OFF Operation <sup>2,3,9,10</sup> MS/DIM-L20=Motion Sensor for Dimming Operation <sup>2,3,9,10,11,12,13</sup> CBP=Cold Weather Battery Pack <sup>2,3,14,15,16</sup> HA=50°C High Ambient <sup>16</sup>
<b>Accessories (Order Separately)<sup>18</sup></b>				
WG-XTORMX=Crosstour MAXX Wire Guard PB120V=Field Installed 120V Photocontrol PB277V BUTTON PC=Field Installed 208-277V Photocontrol <sup>8</sup>			EWP/XTORMX=Escutcheon Wall Plate, Carbon Bronze EWP/XTORMX-WT=Escutcheon Wall Plate, Summit White FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>13</sup>	

- NOTES:**
- DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
  - Not available with HA option.
  - Deep back box is standard for 347V, 480V, CBP, MS-L20 and MS/DIM-L20.
  - Not available with CBP option.
  - Thru-branch wiring not available with HA option or with 347V.
  - Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
  - Not available with MS-L20 and MS/DIM-L20 options.
  - Use PC2 with 347V or 480V option for photocontrol. Factory wired to 208-277V lead.
  - For use in downlight orientation only. Optimal coverage at mounting heights of 9'-20'.
  - 120V thru 277V only.
  - Factory set to 50% power reduction after 15-minutes of inactivity. Dimming driver included.
  - Includes integral photo sensor.
  - The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff, and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
  - 120V or 277V operation only.
  - Operating temperatures -20°C to 25°C.
  - Not available in XTOR12B or XTOR12BRL models.
  - Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
  - Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

**STOCK ORDERING INFORMATION**

Domestic Preferences <sup>1</sup>	58W Series	81W Series	102W Series
[Blank]=Standard	Full Cutoff		
BAA=Buy American Act	XTOR6B=58W, 5000K, Carbon Bronze	XTOR8B=81W, 5000K, Carbon Bronze	XTOR12B=102W, 5000K, Carbon Bronze
TAA=Trade Agreements Act	XTOR6B-PC1=58W, 5000K, 120V PC, Carbon Bronze	XTOR8B-PC1=81W, 5000K, 120V PC, Carbon Bronze	
	XTOR6B-WT= 58W, 5000K, Summit White	XTOR8B-WT=81W, 5000K, Summit White	
	XTOR6B-W=58W, 4000K, Carbon Bronze	XTOR8B-PC2=81W, 5000K, 208-277V PC, Carbon Bronze	
	XTOR6B-PC2= 58W, 5000K, 208-277V PC, Carbon Bronze	XTOR8B-347V=81W, 5000K, Carbon Bronze, 347V	
	<b>Refractive Lens</b>		
	XTOR6BRL=58W, 5000K, Refractive Lens, Carbon Bronze	XTOR8BRL=81W, 5000K, Refractive Lens, Carbon Bronze	XTOR12BRL=102W, 5000K, Refractive Lens, Carbon Bronze
	XTOR6BRL-PC1=58W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	XTOR8BRL-PC1=81W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	XTOR12BRL-W=102W, 4000K, Refractive Lens, Carbon Bronze
	XTOR6BRL-WT=58W, 5000K, Refractive Lens, Summit White	XTOR8BRL-WT=81W, 5000K, Refractive Lens, Summit White	XTOR12BRL-347V=102W, 5000K, Refractive Lens, Carbon Bronze, 347V
	XTOR6BRL-W=58W, 4000K, Refractive Lens, Carbon Bronze	XTOR8BRL-PC2=81W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze	
	XTOR6BRL-PC2=58W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze	XTOR8BRL-W=81W, 4000K, Refractive Lens, Carbon Bronze	
	XTOR6BRL-347V=58W, 5000K, Refractive Lens, Carbon Bronze, 347V	XTOR8BRL-347V = 81W, 5000K, Refractive Lens, Carbon Bronze, 347V	

- NOTES:**
- Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.



Cooper Lighting Solutions  
1121 Highway 74 South  
Peachtree City, GA 30269  
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www.cooperlighting.com

Specifications and dimensions subject to change without notice.

# Steel Poles



## SSS SQUARE STRAIGHT STEEL

Catalog #		Type
Project		
Comments		Date
Prepared by		

### FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-39' mounting heights
- Drilled or tenon (specify)

### DESIGN CONSIDERATIONS - VIBRATIONS AND NON-GROUND MOUNTED INSTALLATIONS

The information contained herein is for general guidance only and is not a replacement for professional judgment. Design considerations for wind-induced vibrations and non-ground mounted installations (e.g., installations on bridges or buildings) are not included in this document. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Refer to the Cooper Lighting Solutions Light Pole White Paper for risk factors and design considerations. [Learn more.](#)

**NOTE:** The Limited Warranty for this product specifically excludes fatigue failure or similar damage resulting from vibration, harmonic oscillation or resonance.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutions or visit [www.cooperlighting.com](http://www.cooperlighting.com) for available options, accessories and ordering information.

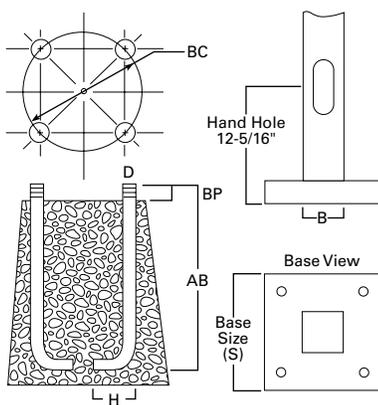
### ORDERING INFORMATION

**SAMPLE NUMBER:** SSA5A20SFM1XG

Product Family	Shaft Size (Inches) <sup>1</sup>	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	4=4" 5=5" 6=6"	A=0.120" M=0.188" X=0.250"	10=10' 15=15' 20=20' 25=25' 30=30' 35=35' 39=39'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 9=3" O.D. Tenon (4" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type E Drilling F=Type F Drilling G=Type G Drilling J=Type J Drilling K=Type K Drilling M=Type M Drilling N=Type N Drilling R=Type R Drilling S=Standard Upsweep Arm <sup>6</sup> Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple <sup>2</sup> 4=4 at 90° 5=2 at 90° X=None	X=None 2=2' 3=2.5' 4=4' 6=6' 8=8'	A=1/2" Tapped Hub <sup>3</sup> B=3/4" Tapped Hub <sup>3</sup> C=Convenience Outlet <sup>4</sup> E=GFCI Convenience Outlet <sup>4</sup> G=Ground Lug H=Additional Hand Hole <sup>5</sup> V=Vibration Dampener

**NOTES:** 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Tapped Hub is located 5' below the pole top and on the same side of pole as hand hole, unless specified otherwise. 4. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 5. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified. 6. Arm must be ordered separately.

### ANCHORAGE DATA



Pole	Template Number	Bolt Number	Bolt Circle (inches)	Number of Bolts	Bolt Size (inches)
SSS4	TMP1	AB1	8.5 - 11.0	4	3/4 x 25 x 3
SSS5	TMP1	AB1	11.0	4	3/4 x 25 x 3
SSS6	TMP2	AB3	12.5	4	1 x 36 x 4

**EFFECTIVE PROJECTED AREA (At Pole Top)**

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Size <sup>3</sup> (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>				Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H						
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	30.0	22.0	17.0	13.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	15.0	11.5	8.7	6.5	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.5	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	15.4	11.1	7.9	5.5	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.7	1.7	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	9.3	6.0	3.5	1.6	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.9	6.1	3.5	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	--	--	200
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	10.4	6.4	3.5	1.5	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	19.0	13.0	8.7	5.6	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	12.8	7.2	3.7	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.5	11.0	6.8	3.5	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	--	--	300
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	13.0	7.0	3.7	0.8	300

**EFFECTIVE PROJECTED AREA (Two Feet Above Pole Top)**

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square <sup>3</sup> (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection <sup>3</sup> (Inches)	Shaft Size <sup>3</sup> (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>				Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H						
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	17.5	14.0	11.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	13.4	10.0	7.5	5.7	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	7.6	5.2	3.4	2.1	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	13.8	9.9	7.1	4.9	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.4	1.6	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.5	5.5	3.2	1.5	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.1	5.6	3.0	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	--	--	--	200
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	9.6	5.9	1.9	0.2	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	18.5	12.5	8.4	5.3	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	11.8	7.0	3.5	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.0	10.5	6.4	3.4	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	--	--	300
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	12.0	6.7	3.0	0.5	300

- NOTES:
1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.
  2. Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
  3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
  4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.

## VIBRATION

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Vibrations may cause damage to structures, including poles. Vibrations are unpredictable, and there are many factors and variables that can cause damaging vibrations. Many wind conditions exist that can create damaging vibrations to poles and luminaires, such as constant winds between 10-30 mph. Although all pole types can experience vibration, straight square poles seem to be most prone. Vibration dampers and/or a round tapered design may be used to mitigate damage from vibrations, but there is no guarantee damaging vibrations will be prevented. Vibration dampers are not included with this pole but can be ordered separately. Consult with a professional, and local and federal standards, to ensure this pole is appropriate for the intended purpose and installation location. Refer to Cooper Lighting Solutions' Light Pole White Paper for risk factors and design considerations.

## MAINTENANCE

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Perform inspections periodically. A prudent inspection schedule would be: one week after installation, one month after installation, yearly after installation, and following any major wind event. During the inspection, check the poles for cracks. If cracks are detected, remedial action is required. Recheck anchor bolt torques and re-tighten according to the recommended torque values. Check for missing covers and pole caps and replace as necessary. Check the pole for corrosion and deterioration of the finish. Should there be corrosion or deterioration, take remedial action to correct.

**WARNING:** Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to pole white paper WP513001EN for additional support information. Before installing, make sure proper anchor bolts and templates are obtained. The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty and may result in pole failure causing serious injury or property damage. Information regarding total loading capacity can be supplied upon request. The pole warranty is void unless poles are used and installed as a complete pole and luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Cooper Lighting Solutions or visit [www.cooperlighting.com](http://www.cooperlighting.com) for available options, accessories and ordering information.

Project		Catalog #		Type	
Prepared by		Notes		Date	



# McGraw-Edison

## GALN Galleon II

Area / Site Luminaire

### Product Features



### Product Certifications



### Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3](#)
- Optical Distributions [page 5](#)
- Product Specifications [page 5](#)
- Energy and Performance Data [page 6](#)
- Control Options [page 13](#)

### Quick Facts

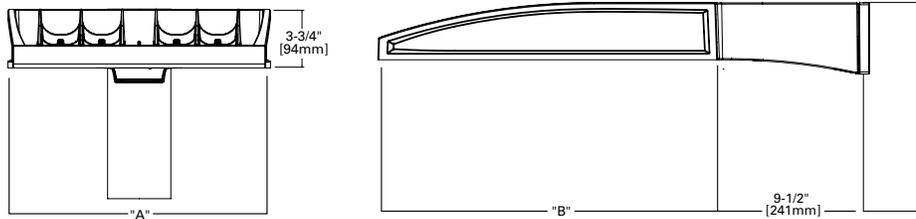
- Lumen packages range from 3,300 - 102,700 (33W - 658W)
- 17 optical distributions
- Efficacy up to 178 LPW

### Connected Systems

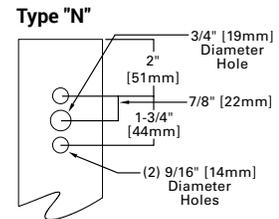
- Wavelinx LITE Wireless
- Wavelinx PRO Wireless
- AirMesh Wireless

### Dimensional Details

#### Standard Pole Mount Arm



#### Pole Drilling Pattern



Number of Light Squares	Width "A"	Housing Length "B"	Weight with Standard or QM Arm	EPA with Standard or QM Arm
1-4	16"	22"	29 lb	0.95
5-6	22"	22"	39 lb	0.95
7-9	22"	28-1/8"	48 lb	1.1

NOTES: For arm selection requirements and additional line art, see Mounting Details section.

Ordering Information

SAMPLE NUMBER: GALN-SA4C-740-U-T4FT-GM

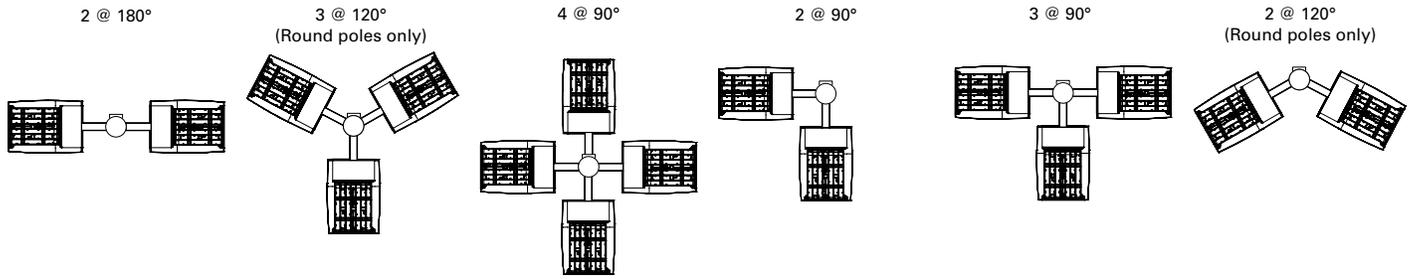
Product Family <sup>1,2</sup>	Light Engine Configuration			Color Temperature	Voltage	Distribution	Mounting	Finish
	Light Square	Square Count	Lumen Output					
<b>GALN=Galleon II</b> <b>BAA-GALN=Galleon II Buy American Act Compliant</b> <sup>26</sup> <b>TAA-GALN=Galleon II Trade Agreements Act Compliant</b> <sup>26</sup> <b>BABA-GALN=Galleon II BABA/IIJA Compliant</b>	<b>SA=16 LED Light Square</b> <b>SB=26 LED Light Square</b>	1=1 Light Square 2=2 Light Squares 3=3 Light Squares 4=4 Light Squares 5=5 Light Squares 6=6 Light Squares 7=7 Light Squares 8=8 Light Squares 9=9 Light Squares	<b>A=Output Level 1</b> <b>B=Output Level 2</b> <b>C=Output Level 3</b> <b>D=Output Level 4</b> <sup>4,16</sup> <b>Z=Configured Output</b> <sup>32</sup>	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K <b>740=70CRI, 4000K</b> 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K 835=80CRI, 3500K 840=80CRI, 4000K 930=90CRI, 3000K 935=90CRI, 3500K 940=90CRI, 4000K 950=90CRI, 5000K AMB=Amber <sup>14,16</sup>	<b>U=120-277V</b> H=347V-480V <sup>7,29</sup> 1=120V 2=208V 3=240V 4=277V 8=480V <sup>7,29</sup> 9=347V <sup>7</sup> DV=277V-480V DuraVolt Drivers <sup>28,29,30</sup>	<b>T1=Type I</b> <b>T2=Type II</b> <b>T2R=Type II Roadway</b> <b>T3=Type III</b> <b>T3R=Type III Roadway</b> <b>T4FT=Type IV Forward Throw</b> <b>T4W=Type IV Wide</b> <b>5NQ=Type V Narrow</b> <b>5MQ=Type V Square Medium</b> <b>5WQ=Type V Square Wide</b> <b>SL2=Type II w/Spill Control</b> <b>SL3=Type III w/Spill Control</b> <b>SL4=Type IV w/Spill Control</b> <b>SLL=90° Spill Light Eliminator Left</b> <b>SLR=90° Spill Light Eliminator Right</b> <b>RW=Rectangular Wide Type I</b> <b>AFL=Automotive Frontline</b>	<b>[Blank]=Standard Pole Mount Arm</b> <b>QU=Quick Mount Universal Arm</b> <b>QM=Pole Mount Arm with Quick Mount Adaptor</b> <b>PA=Pole Mount, Adjustable</b> <b>SP=3" Slipfitter, Adjustable</b> <sup>8</sup> <b>SP2=2-3/8" Slipfitter, Adjustable</b> <sup>8</sup> <b>QMA=Quick Mount Mast Arm, Fixed</b> <b>MA=Mast Arm, Fixed</b> <b>WM=Wall Mount, Fixed</b> <b>WA=Wall Mount, Adjustable</b> <b>UP=Upswept Arm</b>	<b>AP=Grey</b> <b>BZ=Bronze</b> <b>BK=Black</b> <b>DP=Dark Platinum</b> <b>GM=Graphite Metallic</b> <b>WH=White</b> <b>RALXX=Custom Color</b>

Options (Add as Suffix)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately) <sup>27</sup>
<b>DIM=External 0-10V Dimming Leads</b> <sup>19</sup> <b>F=Single Fuse (120, 277 or 347V Specify Voltage)</b> <b>FF=Double Fuse (208, 240 or 480V Specify Voltage)</b> <b>20K=20kV UL 1449 fused surge protective device</b> <sup>10</sup> <b>2L=Two Circuits</b> <sup>10</sup> <b>HA=50°C High Ambient</b> <sup>16</sup> <b>HSS=Installed House Side Shield</b> <sup>17</sup> <b>BCS=Backlight Control Shield</b> <sup>17,37</sup> <b>GRSBK=Glare Reducing Shield, Black</b> <sup>22</sup> <b>GRSWH=Glare Reducing Shield, White</b> <sup>22</sup> <b>LCF=Light Square Trim Painted to Match Housing</b> <sup>25</sup> <b>TH=Tool-less Door Hardware</b> <sup>5</sup> <b>CC=Coastal Construction finish</b> <sup>3</sup> <b>L90=Optics Rotated 90° Left</b> <b>R90=Optics Rotated 90° Right</b> <b>3SDCM=3 Standard Deviation Color Matching</b> <sup>36</sup> <b>AHD145=After Hours Dim, 5 Hours</b> <sup>21</sup> <b>AHD245=After Hours Dim, 6 Hours</b> <sup>21</sup> <b>AHD255=After Hours Dim, 7 Hours</b> <sup>21</sup> <b>AHD355=After Hours Dim, 8 Hours</b> <sup>21</sup> <b>DALI=DALI Drivers</b>	<b>BPC=Button Type Photocontrol. Must specify voltage 120V, 208V, 240V or 277V.</b> <sup>6</sup> <b>PR=NEMA 3-PIN Photocontrol Receptacle</b> <b>PR7=NEMA 7-PIN Photocontrol Receptacle</b> <sup>20</sup> <b>FADC=Field Adjustable Dimming Controller</b> <sup>31</sup> <b>PSC=Photocontrol Shorting Cap</b> <b>SPB2=Dimming Motion Sensor, 9'-20' mounting</b> <sup>23</sup> <b>SPB4=Dimming Motion Sensor, 21'-40' mounting</b> <sup>23</sup> <b>SPB2/X=Dimming Motion Sensor, limited square count, 9'-20' mounting</b> <sup>23</sup> <b>SPB4/X=Dimming Motion Sensor, limited square count, 21'-40' mounting</b> <sup>23</sup> <b>MS/DIM-L20=Motion Sensor for Dimming Operation, 9'-20' Mounting</b> <sup>33</sup> <b>MS/DIM-L40=Motion Sensor for Dimming Operation, 21'-40' Mounting</b> <sup>33</sup> <b>WLS2XX=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 15' Mounting</b> <sup>12,16,34</sup> <b>WLS4XX=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting</b> <sup>12,16,34</sup> <b>WPS2XX=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting</b> <sup>12,13,34</sup> <b>WPS4XX=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting</b> <sup>12,13,34</sup> <b>DIM10-L20=AirMesh Occupancy Sensor (9'-20' Mounting)</b> <sup>16,35</sup> <b>DIM10-L40=AirMesh Occupancy Sensor (21'-40' Mounting)</b> <sup>16,35</sup>	<b>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V</b> <b>OA/RA1027=NEMA Photocontrol - 480V</b> <b>OA/RA1201=NEMA Photocontrol - 347V</b> <b>OA/RA1013=Photocontrol Shorting Cap</b> <b>OA/RA1014=120V Photocontrol</b> <b>MA1252=10kV Surge Module Replacement</b> <b>MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon</b> <b>MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon</b> <b>SRA238=Adapter kit for mounting 3" SP arm to 2-3/8" O.D. vertical tenon</b> <b>FSIR-100=Wireless Configuration Tool for MS/DIM</b> <sup>33</sup> <b>LS/HSS=Field Installed House Side Shield for SA Light Squares</b> <sup>9,17</sup> <b>LS/HSS-SB=Field Installed House Side Shield for SB Light Squares</b> <sup>9,17</sup> <b>LS/BCS=Backlight Control Shield</b> <sup>9,17,37</sup> <b>LS/GRSBK-2PK=Glare Reducing Shield, Black</b> <sup>9,22</sup> <b>LS/GRSWH-2PK=Glare Reducing Shield, White</b> <sup>9,22</sup> <b>LS/PFS=Perimeter Shield, Black</b> <sup>15</sup> <b>WOLC-7P-10A=WaveLinx Outdoor Control Module</b> <sup>11,18,13</sup> <b>TL7-G1-HV= AirMesh 7-PIN node, 110-480V</b> <sup>11,18,35</sup> <b>CBSSW-450-002= AirMesh central base station with 5-button control</b> <sup>35</sup>

- NOTES:**
- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
  - DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
  - Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option.
  - When using SA light squares, Output Level 4 not available with color temperatures 722, 727, 827, 830 or 930 when HSS is used.
  - TH option not 3G rated. Not available with Coastal Construction (CC) option.
  - Not available with voltage options H, 8 or 9.
  - Not available with SB1A or SB2A configurations. Not available in combination with HA high ambient and sensor options at Output Level 3. H voltage not available with sensor options, choose voltage 8 or 9.
  - SP arm limited to 3" O.D. vertical tenon. SP2 limited to 2-3/8" O.D. vertical tenon.
  - One required for each Light Square.
  - 2L is not available with SB light squares. Not available with SPB at 347V or 480V. Not available with WaveLinx or 20kV surge option.
  - Requires PR7.
  - Replace XX with sensor color (WH, BZ or BK.).
  - WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. WAC not required for LC Bluetooth sensors.
  - Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose Output Level 1; supplied at 500mA drive current only. Not available with SB light squares. Exact luminaire wattage available in IES files. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
  - Set of 4 pcs. One set required per Light Square.
  - HA option not available with Output Level 4 or AMB Amber.
  - Not for use with T1, SNQ, 5MQ, 5WQ or RW optics.
  - Cannot be used with other control options.
  - Low voltage control lead brought out 18" outside fixture. Not available with DALI or integrated controls options.
  - Not available if any SPB, LWR, or WaveLinx sensor is selected. Motion sensor has an integral photocell.
  - Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. Not available with SB light squares when using Output Level 4.
  - Not for use with T1, T4FT, T4W or SL optics. See IES files for details. Not available with SB light squares.
  - Sensor configuration mobile application required for configuration. See controls page for details.
  - Replace X with number of Light Squares controlled by the SPB, referencing the "SPB/X Availability Table" on the controls page.
  - Not available with HSS, GRSWH or GRSBK.
  - Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC-PREFERENCES](http://DOMESTIC-PREFERENCES) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
  - For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
  - DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit [www.signify.com/duravolt](http://www.signify.com/duravolt) for more information.
  - 480V not to be used with ungrounded or impedance grounded systems.
  - Not available with SA1A or SA1B. Not available with SB1, or any SB configuration using Output Level 1. Not available with any control option except SPB.
  - Cannot be used with DALI, PR7, or other motion response control options. Not available with SB light squares when using Output Level 4.
  - Use GALN Product Configurator to specify lumen output, drive current and wattage. Not available with AMB. Not available with SB light squares.
  - Uses the FSP-211 motion sensor. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
  - Controls system is not available with photocontrol receptacles (PR, PR7) or other controls systems (FADC, SPBx).
  - Requires AirMesh central base station CBSSW-450-002 and Synapse commissioning for operation.
  - 3-step MacAdam ellipse binning. Available in 740 CRI/CCT only. Longer lead times apply, consult your lighting representative at Cooper Lighting Solutions for more information.
  - Not available with SB light squares.

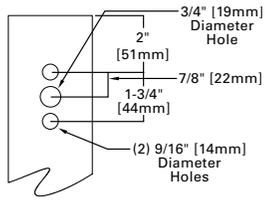
Mounting Details

Pole Configuration Options

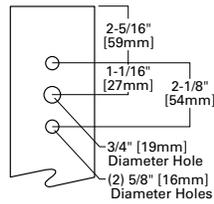


Pole Drilling Patterns

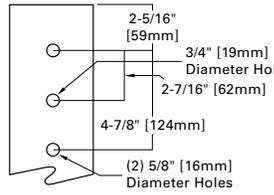
Type "N"



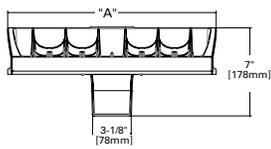
Type "R"



Type "M"

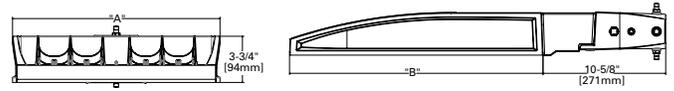


Quick Mount Universal Arm (QU)



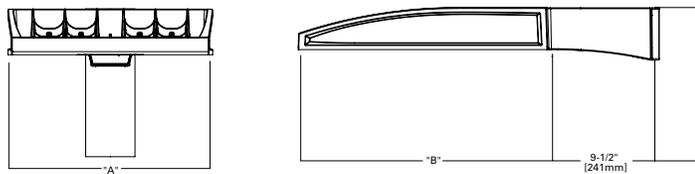
\*NOTE: Universal bolt pattern compatible with Type N through Type M drilling patterns

Quick Mount Mast Arm (QMA)



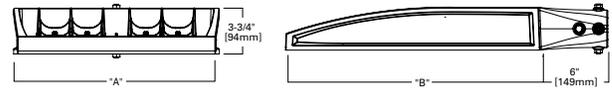
\*NOTE: Fits 2-3/8" O.D. tenon

Pole Mount Arm with Quick Mount Adaptor (QM)



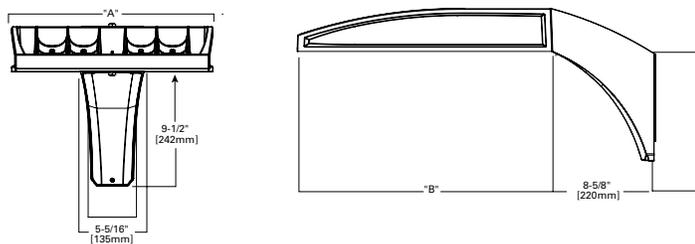
\*NOTE: Use Type N drilling pattern

Mast Arm, Fixed (MA)



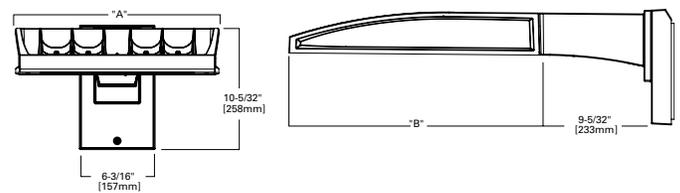
\*NOTE: Fits 2-3/8" O.D. tenon

Upswept Arm (UP)



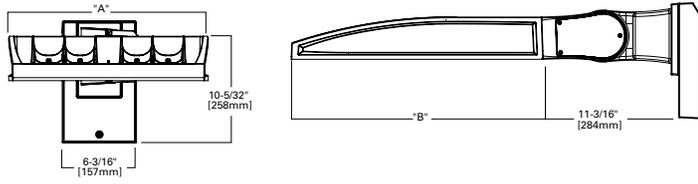
\*NOTE: Universal bolt pattern compatible with Type N through Type M drilling patterns

Wall Mount, Fixed (WM)



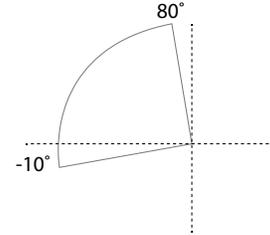
### Mounting Details

#### Wall Mount, Adjustable (WA)

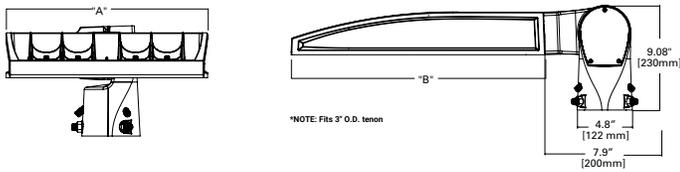


#### Adjustable Arm Range of Motion

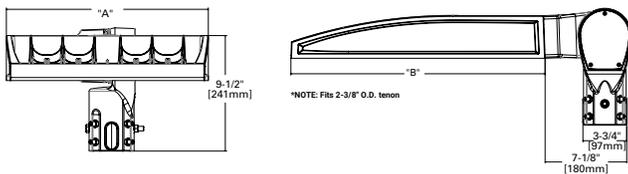
- Includes WA, SP, SP2 and PA mounting options
- Adjustable in increments of 5°
- Must maintain downward facing orientation



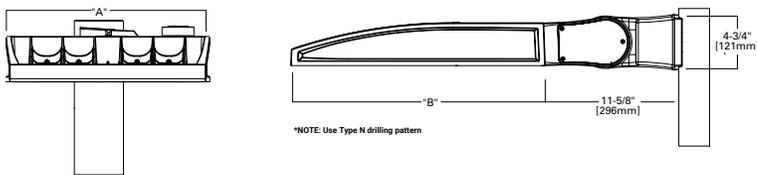
#### 3" Slipfitter, Adjustable (SP)



#### 2-3/8" Slipfitter, Adjustable (SP2)



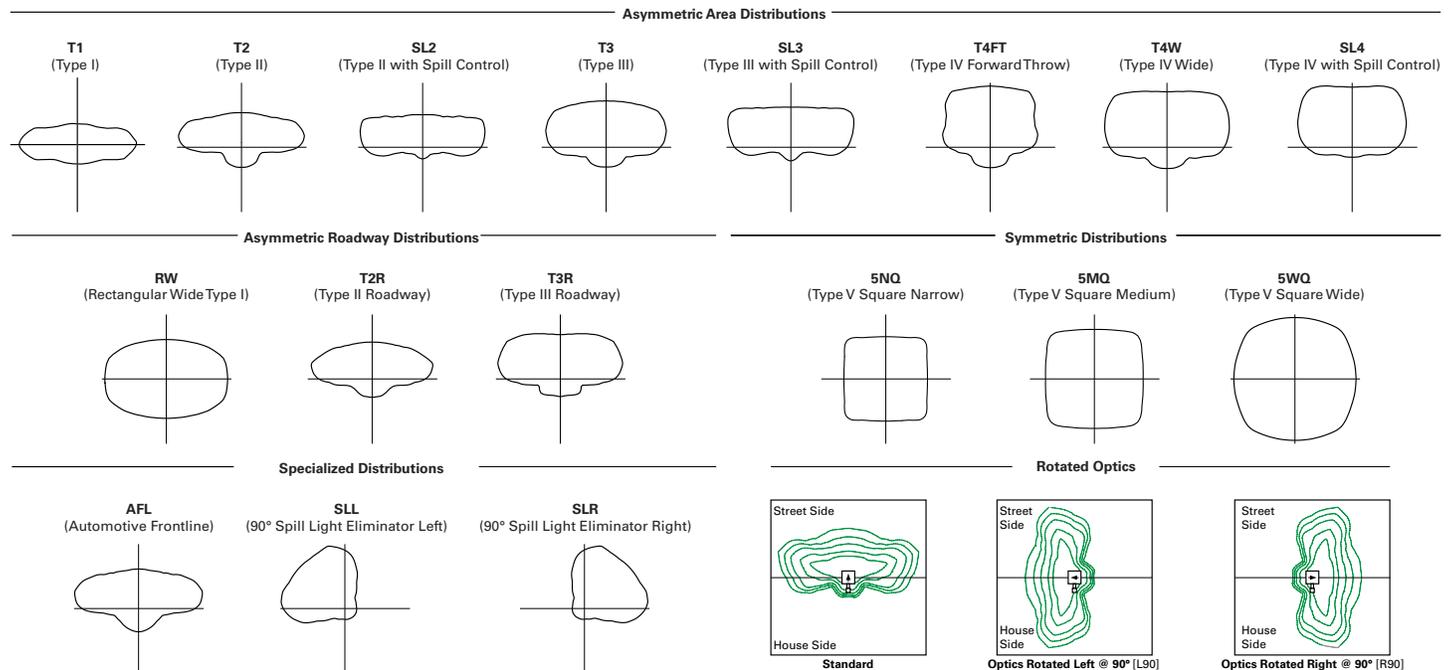
#### Pole Mount, Adjustable Arm (PA)



#### Fixture Weights and EPAs

Tilt Angle (Degrees)	Number of Light Squares	Weight	1 @ 90°	2 @ 180°	2 @ 90°	2 @ 120°	3 @ 90°	3 @ 120°	4 @ 90°
0°	1-4	33.5 lb (15.2 kg)	0.85	1.70	1.46	1.66	2.31	2.25	2.35
	5-6	43.5 lb (19.7 kg)	0.86	1.71	1.62	1.80	2.49	2.35	2.50
	7-9	52.5 lb (23.8 kg)	0.98	1.95	1.75	1.98	2.73	2.55	2.76
15°	1-4	33.5 lb (15.2 kg)	1.10	1.71	1.95	2.26	2.81	3.30	2.87
	5-6	43.5 lb (19.7 kg)	1.42	1.71	2.27	2.72	3.13	3.63	3.15
	7-9	52.5 lb (23.8 kg)	1.69	1.96	2.67	3.22	3.65	4.38	3.72
30°	1-4	33.5 lb (15.2 kg)	1.72	1.81	2.58	3.21	3.44	4.59	3.53
	5-6	43.5 lb (19.7 kg)	2.26	2.29	3.11	4.00	3.97	5.27	4.00
	7-9	52.5 lb (23.8 kg)	2.75	2.85	3.73	4.83	4.71	6.45	4.81
45°	1-4	33.5 lb (15.2 kg)	2.25	2.36	3.10	4.00	3.96	5.63	4.08
	5-6	43.5 lb (19.7 kg)	2.96	2.99	3.81	5.06	4.67	6.49	4.71
	7-9	52.5 lb (23.8 kg)	3.63	3.76	3.73	6.17	5.59	8.03	5.73
60°	1-4	33.5 lb (15.2 kg)	2.63	2.77	3.49	4.58	4.34	6.21	4.48
	5-6	43.5 lb (19.7 kg)	3.46	3.51	4.32	5.84	5.19	7.01	5.22
	7-9	52.5 lb (23.8 kg)	4.27	4.44	5.25	7.15	6.23	8.80	6.40

## Optical Distributions



## Product Specifications

### Construction

- Die-cast aluminum housing and heat sink
- Three housing sizes, using 1 to 9 light squares

### Optics

- High-efficiency injection-molded AccuLED Optics technology
- 17 optical distributions for area site and roadway applications
- 4 shielding options include HSS, BCS, GRS and PFS
- IDA Certified (3000K CCT and warmer only, fixed mounting options)
- 5 step MacAdam ellipse binning (5 SDCM) standard with 70CRI and 80CRI. 3SDCM option available with 740 CRI/CCT. 3 step MacAdam ellipse binning standard with 90CRI

### Electrical

- Removable power tray assembly includes drivers, surge modules and control modules for ease of maintenance and serviceability
- Standard with 0-10V dimming
- Standard with 10kV surge module, optional 20kV surge module
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Comes pre-set to the highest position at the lumen output selected

### Mounting

- Arms are factory installed, enabling closed-housing installation
- All arms suitable for round or square pole installation
- All arms provide clearance for multiple fixture installations at 90°

### Finish

- 6 standard finishes use super durable TGIC polyester powder coat paint, providing 2.5 mil nominal thickness and salt-spray tested to 3,000 hours per ASTM B117
- RAL and custom color matches available
- Coastal Construction (CC) option salt-spray tested to 5,000 hours per ASTM B117, achieving a scribe rating of 9 per ASTM D1654

### Compliance

- Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified
- IDA Certified (3000K CCT and warmer only, fixed mounting options)
- Domestic preference options to meet BAA or BABA requirements. FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Buy America Build America Act (BABA). BABA is the minimum Government compliance requirement for the Buy America Build America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to the [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements

### Typical Applications

- Outdoor, Parking Lots, Walkways, Roadways, Building Areas
- Sports lighting, including tennis, pickleball, basketball courts

### Warranty

- Five-year limited warranty. Consult website for details. [www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)

Energy and Performance Data

Lumen Maintenance (TM-21)

Output Level	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Output Levels 1-3	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
Output Level 4	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

\* Supported by IES TM-21 standards  
 \*\* Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

FADC Settings

SA1-SA3 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	25%
2	48%
3	56%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: +/-5% typical value

FADC Settings

SA4-SA6 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	14%
2	25%
3	32%
4	43%
5	49%
6	57%
7	65%
8	72%
9	80%
10	100%

Note: +/-5% typical value

FADC Settings

SA7-SA9 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	19%
2	38%
3	47%
4	63%
5	74%
6	85%
7	95%
8	97%
9	100%
10	100%

Note: +/-5% typical value

Drive Currents

Lumen Output	SA Light Squares	SB Light Squares
Output Level 1	615mA	350mA
Output Level 2	800mA	450mA
Output Level 3	1050mA	615mA
Output Level 4	1200mA	900mA

SA Light Squares, Output Level 1, 4000K CCT, 70 CRI

[Galleon II IES Files](#)

[Supplemental Lumen Tables](#)

Number of Light Squares		1	2	3	4	5	6	7	8	9
<b>Nominal Power (Watts)</b>		33	63	93	121	154	182	215	244	274
<b>Input Current @ 120V</b>		0.283	0.529	0.778	1.058	1.310	1.556	1.839	2.089	2.335
<b>Input Current @ 208V</b>		0.165	0.309	0.460	0.618	0.771	0.919	1.082	1.240	1.379
<b>Input Current @ 240V</b>		0.143	0.270	0.398	0.540	0.671	0.796	0.944	1.078	1.194
<b>Input Current @ 277V</b>		0.125	0.237	0.352	0.473	0.581	0.705	0.818	0.962	1.057
<b>Input Current @ 347V</b>		0.098	0.181	0.272	0.362	0.454	0.544	0.636	0.738	0.816
<b>Input Current @ 480V</b>		0.073	0.133	0.200	0.267	0.335	0.400	0.470	0.554	0.600
Optics										
<b>T1</b>	Lumens	4,619	9,180	13,628	18,059	22,861	27,070	31,796	36,863	41,385
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	140	146	147	149	148	149	148	151	151
<b>T2</b>	Lumens	4,654	9,249	13,730	18,194	23,032	27,273	32,034	37,138	41,694
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	141	147	148	150	150	150	149	152	152
<b>T2R</b>	Lumens	4,716	9,372	13,913	18,437	23,340	27,637	32,462	37,634	42,251
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
	Lumens per Watt	143	149	150	152	152	152	151	154	154
<b>T3</b>	Lumens	4,589	9,120	13,538	17,940	22,711	26,892	31,587	36,620	41,112
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	139	145	146	148	147	148	147	150	150
<b>T3R</b>	Lumens	4,735	9,411	13,970	18,513	23,436	27,751	32,596	37,790	42,425
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	143	149	150	153	152	152	152	155	155
<b>T4FT</b>	Lumens	4,617	9,176	13,622	18,051	22,851	27,058	31,782	36,847	41,366
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	140	146	146	149	148	149	148	151	151
<b>T4W</b>	Lumens	4,631	9,203	13,662	18,104	22,918	27,138	31,876	36,955	41,488
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	140	146	147	150	149	149	148	151	151
<b>SL2</b>	Lumens	4,619	9,180	13,627	18,058	22,860	27,069	31,795	36,861	41,383
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
	Lumens per Watt	140	146	147	149	148	149	148	151	151
<b>SL3</b>	Lumens	4,586	9,115	13,531	17,931	22,699	26,879	31,571	36,602	41,091
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	139	145	145	148	147	148	147	150	150
<b>SL4</b>	Lumens	4,529	9,002	13,363	17,708	22,417	26,544	31,178	36,146	40,580
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	137	143	144	146	146	146	145	148	148
<b>5NQ</b>	Lumens	4,829	9,598	14,247	18,880	23,901	28,301	33,242	38,539	43,266
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
	Lumens per Watt	146	152	153	156	155	155	155	158	158
<b>5MQ</b>	Lumens	4,853	9,645	14,318	18,974	24,020	28,442	33,407	38,731	43,482
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	147	153	154	157	156	156	155	159	159
<b>5WQ</b>	Lumens	4,843	9,625	14,288	18,934	23,969	28,382	33,337	38,649	43,390
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	147	153	154	156	156	156	155	158	158
<b>SLL/SLR</b>	Lumens	3,989	7,927	11,768	15,594	19,741	23,375	27,456	31,831	35,736
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	121	126	127	129	128	128	128	130	130
<b>RW</b>	Lumens	4,774	9,488	14,085	18,665	23,628	27,979	32,863	38,100	42,774
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	145	151	151	154	153	154	153	156	156
<b>AFL</b>	Lumens	4,673	9,286	13,785	18,268	23,126	27,384	32,164	37,290	41,864
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	142	147	148	151	150	150	150	153	153

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.

SA Light Squares, Output Level 2, 4000K CCT, 70 CRI

Galleon II IES Files

Supplemental Lumen Tables

Number of Light Squares	1	2	3	4	5	6	7	8	9	
<b>Nominal Power (Watts)</b>	44	82	121	164	204	243	286	325	364	
<b>Input Current @ 120V</b>	0.367	0.689	1.014	1.378	1.704	2.027	2.393	2.716	3.041	
<b>Input Current @ 208V</b>	0.213	0.401	0.594	0.802	0.997	1.188	1.400	1.605	1.782	
<b>Input Current @ 240V</b>	0.184	0.347	0.510	0.694	0.860	1.021	1.210	1.386	1.531	
<b>Input Current @ 277V</b>	0.160	0.303	0.449	0.605	0.757	0.898	1.065	1.242	1.347	
<b>Input Current @ 347V</b>	0.125	0.235	0.355	0.471	0.592	0.710	0.828	0.958	1.065	
<b>Input Current @ 480V</b>	0.092	0.172	0.258	0.344	0.432	0.517	0.605	0.706	0.775	
<b>Optics</b>										
<b>T1</b>	Lumens	5,748	11,423	16,957	22,470	28,446	33,683	39,563	45,867	51,494
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	131	139	140	137	139	139	138	141	141
<b>T2</b>	Lumens	5,790	11,508	17,083	22,638	28,658	33,935	39,859	46,210	51,879
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	132	140	141	138	140	140	139	142	143
<b>T2R</b>	Lumens	5,868	11,662	17,311	22,941	29,041	34,388	40,391	46,827	52,572
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
	Lumens per Watt	133	142	143	140	142	142	141	144	144
<b>T3</b>	Lumens	5,710	11,347	16,845	22,322	28,258	33,461	39,303	45,565	51,155
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	130	138	139	136	139	138	137	140	141
<b>T3R</b>	Lumens	5,892	11,710	17,383	23,035	29,161	34,530	40,558	47,020	52,788
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	134	143	144	140	143	142	142	145	145
<b>T4FT</b>	Lumens	5,745	11,418	16,949	22,460	28,433	33,668	39,546	45,847	51,471
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
<b>T4W</b>	Lumens	5,762	11,451	16,999	22,526	28,517	33,767	39,662	45,982	51,622
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	140	140	137	140	139	139	141	142
<b>SL2</b>	Lumens	5,747	11,422	16,956	22,469	28,444	33,681	39,561	45,865	51,491
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
<b>SL3</b>	Lumens	5,707	11,342	16,836	22,311	28,244	33,444	39,283	45,542	51,129
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	130	138	139	136	138	138	137	140	140
<b>SL4</b>	Lumens	5,636	11,201	16,627	22,034	27,893	33,028	38,794	44,976	50,493
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	128	137	137	134	137	136	136	138	139
<b>5NQ</b>	Lumens	6,009	11,942	17,727	23,492	29,739	35,214	41,362	47,953	53,835
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	137	146	147	143	146	145	145	148	148
<b>5MQ</b>	Lumens	6,039	12,001	17,816	23,609	29,887	35,389	41,568	48,191	54,103
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	137	146	147	144	147	146	145	148	149
<b>5WQ</b>	Lumens	6,026	11,976	17,778	23,559	29,824	35,315	41,480	48,090	53,989
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	137	146	147	144	146	145	145	148	148
<b>SLL/SLR</b>	Lumens	4,963	9,863	14,642	19,403	24,563	29,085	34,163	39,607	44,465
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	113	120	121	118	120	120	119	122	122
<b>RW</b>	Lumens	5,940	11,806	17,526	23,224	29,400	34,813	40,891	47,407	53,222
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	135	144	145	142	144	143	143	146	146
<b>AFL</b>	Lumens	5,814	11,555	17,153	22,730	28,775	34,073	40,021	46,398	52,090
	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
	Lumens per Watt	132	141	142	139	141	140	140	143	143

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.

SA Light Squares, Output Level 3, 4000K CCT, 70 CRI

[Galleon II IES Files](#)

[Supplemental Lumen Tables](#)

Number of Light Squares		1	2	3	4	5	6	7	8	9
<b>Nominal Power (Watts)</b>		57	108	160	213	269	321	377	429	481
<b>Input Current @ 120V</b>		0.478	0.905	1.338	1.810	2.244	2.675	3.150	3.584	4.013
<b>Input Current @ 208V</b>		0.279	0.532	0.780	1.064	1.313	1.559	1.845	2.093	2.339
<b>Input Current @ 240V</b>		0.243	0.458	0.664	0.916	1.123	1.328	1.582	1.788	1.991
<b>Input Current @ 277V</b>		0.213	0.404	0.582	0.808	0.997	1.164	1.401	1.589	1.745
<b>Input Current @ 347V</b>		0.164	0.322	0.471	0.644	0.795	0.943	1.117	1.269	1.414
<b>Input Current @ 480V</b>		0.121	0.235	0.341	0.469	0.579	0.681	0.814	0.923	1.022
Optics										
<b>T1</b>	Lumens	7,101	14,113	20,950	27,763	35,146	41,616	48,882	56,671	63,623
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	125	131	131	130	131	130	130	132	132
<b>T2</b>	Lumens	7,154	14,219	21,107	27,970	35,408	41,927	49,247	57,094	64,098
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	126	132	132	131	132	131	131	133	133
<b>T2R</b>	Lumens	7,250	14,408	21,389	28,344	35,881	42,487	49,905	57,857	64,954
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	127	133	134	133	133	132	132	135	135
<b>T3</b>	Lumens	7,054	14,020	20,812	27,580	34,914	41,342	48,560	56,297	63,203
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
<b>T3R</b>	Lumens	7,280	14,468	21,477	28,461	36,029	42,663	50,111	58,096	65,222
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	128	134	134	134	134	133	133	135	136
<b>T4FT</b>	Lumens	7,098	14,107	20,941	27,751	35,130	41,598	48,860	56,646	63,594
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	130	131	130	130	132	132
<b>T4W</b>	Lumens	7,119	14,148	21,003	27,832	35,233	41,720	49,004	56,812	63,781
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	131	131	130	130	132	133
<b>SL2</b>	Lumens	7,101	14,112	20,949	27,761	35,144	41,614	48,879	56,668	63,619
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	130	131	130	130	132	132
<b>SL3</b>	Lumens	7,051	14,013	20,802	27,566	34,897	41,321	48,535	56,269	63,172
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
<b>SL4</b>	Lumens	6,963	13,839	20,543	27,223	34,463	40,808	47,932	55,569	62,386
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	122	128	128	128	128	127	127	130	130
<b>5NQ</b>	Lumens	7,424	14,755	21,903	29,025	36,743	43,508	51,104	59,247	66,515
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	130	137	137	136	137	136	136	138	138
<b>5MQ</b>	Lumens	7,461	14,828	22,012	29,169	36,926	43,725	51,359	59,542	66,846
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	131	137	138	137	137	136	136	139	139
<b>5WQ</b>	Lumens	7,445	14,797	21,966	29,108	36,849	43,633	51,250	59,417	66,705
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	131	137	137	137	137	136	136	139	139
<b>SLL/SLR</b>	Lumens	6,132	12,187	18,091	23,973	30,348	35,936	42,210	48,935	54,938
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	108	113	113	113	113	112	112	114	114
<b>RW</b>	Lumens	7,340	14,587	21,653	28,694	36,325	43,013	50,522	58,573	65,757
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	129	135	135	135	135	134	134	137	137
<b>AFL</b>	Lumens	7,183	14,276	21,193	28,084	35,552	42,098	49,448	57,327	64,359
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	126	132	132	132	132	131	131	134	134

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.

SA Light Squares, Output Level 4, 4000K CCT, 70 CRI

[Galleon II IES Files](#)

[Supplemental Lumen Tables](#)

Number of Light Squares	1	2	3	4	5	6	7	8	9	
<b>Nominal Power (Watts)</b>	65	125	184	245	309	368	433	493	552	
<b>Input Current @ 120V</b>	0.546	1.041	1.535	2.082	2.578	3.070	3.619	4.114	4.605	
<b>Input Current @ 208V</b>	0.318	0.610	0.893	1.219	1.504	1.786	2.113	2.397	2.679	
<b>Input Current @ 240V</b>	0.276	0.523	0.758	1.046	1.282	1.516	1.806	2.041	2.274	
<b>Input Current @ 277V</b>	0.241	0.460	0.662	0.920	1.133	1.325	1.593	1.807	1.987	
<b>Input Current @ 347V</b>	0.187	0.370	0.543	0.740	0.915	1.085	1.285	1.459	1.628	
<b>Input Current @ 480V</b>	0.138	0.269	0.391	0.537	0.663	0.782	0.932	1.057	1.173	
<b>Optics</b>										
<b>T1</b>	Lumens	7,814	15,529	23,053	30,549	38,672	45,793	53,787	62,358	70,007
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	120	124	125	125	125	124	124	126	127
<b>T2</b>	Lumens	7,872	15,645	23,225	30,777	38,962	46,135	54,189	62,824	70,530
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	125	126	126	126	125	125	127	128
<b>T2R</b>	Lumens	7,977	15,854	23,535	31,188	39,482	46,751	54,913	63,663	71,472
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	127	128	127	128	127	127	129	129
<b>T3</b>	Lumens	7,762	15,427	22,901	30,348	38,418	45,491	53,433	61,947	69,546
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	123	124	124	124	124	123	126	126
<b>T3R</b>	Lumens	8,010	15,920	23,632	31,317	39,645	46,944	55,139	63,925	71,767
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	123	127	128	128	128	128	127	130	130
<b>T4FT</b>	Lumens	7,810	15,522	23,043	30,535	38,655	45,772	53,763	62,330	69,976
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	120	124	125	125	125	124	124	126	127
<b>T4W</b>	Lumens	7,833	15,568	23,110	30,625	38,769	45,907	53,921	62,513	70,182
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	121	125	126	125	125	125	125	127	127
<b>SL2</b>	Lumens	7,813	15,528	23,052	30,547	38,670	45,790	53,784	62,354	70,003
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	120	124	125	125	125	124	124	126	127
<b>SL3</b>	Lumens	7,758	15,419	22,889	30,332	38,398	45,468	53,406	61,916	69,511
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	123	124	124	124	124	123	126	126
<b>SL4</b>	Lumens	7,662	15,228	22,605	29,955	37,921	44,903	52,742	61,146	68,646
	BUG Rating	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	118	122	123	122	123	122	122	124	124
<b>5NQ</b>	Lumens	8,169	16,235	24,101	31,938	40,431	47,874	56,232	65,193	73,190
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	126	130	131	130	131	130	130	132	133
<b>5MQ</b>	Lumens	8,210	16,316	24,221	32,097	40,632	48,113	56,512	65,517	73,554
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	126	131	132	131	131	131	131	133	133
<b>5WQ</b>	Lumens	8,192	16,282	24,170	32,029	40,546	48,011	56,393	65,379	73,399
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	126	130	131	131	131	130	130	133	133
<b>SLL/SLR</b>	Lumens	6,747	13,410	19,906	26,379	33,394	39,542	46,445	53,846	60,451
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	104	107	108	108	108	107	107	109	110
<b>RW</b>	Lumens	8,076	16,050	23,826	31,574	39,970	47,329	55,592	64,450	72,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	124	128	129	129	129	129	128	131	131
<b>AFL</b>	Lumens	7,904	15,709	23,320	30,902	39,120	46,323	54,410	63,079	70,817
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	122	126	127	126	127	126	126	128	128

\* Nominal data for 70 CRI. \*\* For additional performance data, please reference the Galleon Supplemental Performance Guide.

SB Light Squares, Output Level 1, 4000K, 70 CRI

Number of Light Squares		1	2	3	4	5	6	7	8	9
<b>Nominal Power (Watts)</b>		31	57	85	114	142	171	199	227	256
<b>Input Current @ 120V</b>		0.263	0.484	0.717	0.952	1.201	1.434	1.685	1.918	2.151
<b>Input Current @ 208V</b>		0.154	0.280	0.420	0.552	0.700	0.839	0.979	1.119	1.259
<b>Input Current @ 240V</b>		0.136	0.245	0.370	0.483	0.615	0.740	0.860	0.985	1.110
<b>Input Current @ 277V</b>		0.122	0.216	0.330	0.425	0.546	0.660	0.762	0.876	0.989
<b>Input Current @ 347V</b>		-	-	0.248	0.328	0.413	0.495	0.577	0.665	0.743
<b>Input Current @ 480V</b>		-	-	0.182	0.238	0.304	0.364	0.426	0.493	0.547
<b>Optics</b>										
<b>T1</b>	Lumens	4,696	9,389	14,086	18,816	23,716	28,470	33,388	37,964	42,763
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
	Lumens per Watt	152	164	166	165	167	167	168	167	167
<b>T2</b>	Lumens	4,704	9,404	14,109	18,846	23,754	28,515	33,442	38,024	42,831
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	152	164	167	165	168	167	168	167	168
<b>T2R</b>	Lumens	4,835	9,667	14,503	19,373	24,418	29,313	34,377	39,087	44,029
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
	Lumens per Watt	156	169	171	170	172	172	173	172	172
<b>T3</b>	Lumens	4,751	9,497	14,249	19,033	23,989	28,798	33,773	38,401	43,256
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	154	166	168	167	169	169	170	169	169
<b>T3R</b>	Lumens	4,874	9,743	14,618	19,526	24,611	29,544	34,648	39,396	44,376
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
	Lumens per Watt	158	170	173	171	174	173	174	173	174
<b>T4FT</b>	Lumens	4,692	9,380	14,074	18,799	23,694	28,444	33,358	37,929	42,724
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	152	164	166	165	167	166	168	167	167
<b>T4W</b>	Lumens	4,738	9,472	14,211	18,983	23,926	28,723	33,685	38,300	43,142
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	153	165	168	167	169	168	169	169	169
<b>SL2</b>	Lumens	4,719	9,433	14,153	18,905	23,828	28,605	33,546	38,143	42,965
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
	Lumens per Watt	153	165	167	166	168	167	168	168	168
<b>SL3</b>	Lumens	4,640	9,276	13,916	18,589	23,430	28,127	32,986	37,506	42,247
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	150	162	164	163	165	165	166	165	165
<b>SL4</b>	Lumens	4,706	9,408	14,115	18,854	23,764	28,527	33,456	38,040	42,849
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	152	164	167	165	168	167	168	168	168
<b>5NQ</b>	Lumens	4,975	9,945	14,921	19,931	25,121	30,157	35,367	40,213	45,297
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	161	174	176	175	177	176	178	177	177
<b>5MQ</b>	Lumens	4,972	9,939	14,912	19,919	25,106	30,139	35,346	40,189	45,269
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	161	173	176	175	177	176	178	177	177
<b>5WQ</b>	Lumens	4,802	9,600	14,403	19,239	24,249	29,110	34,139	38,817	43,724
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	155	168	170	169	171	170	171	171	171
<b>SLL/SLR</b>	Lumens	4,730	9,457	14,188	18,952	23,887	28,676	33,630	38,238	43,072
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	153	165	168	166	169	168	169	168	169
<b>RW</b>	Lumens	4,889	9,773	14,663	19,586	24,686	29,635	34,755	39,517	44,513
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
	Lumens per Watt	158	171	173	172	174	173	175	174	174
<b>AFL</b>	Lumens	4,828	9,652	14,482	19,344	24,381	29,269	34,325	39,029	43,963
	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	156	168	171	170	172	171	172	172	172

SB Light Squares, Output Level 2, 4000K, 70 CRI

Number of Light Squares		1	2	3	4	5	6	7	8	9
<b>Nominal Power (Watts)</b>		40	74	109	147	183	220	257	293	330
<b>Input Current @ 120V</b>		0.330	0.627	0.919	1.255	1.547	1.838	2.174	2.466	2.758
<b>Input Current @ 208V</b>		0.192	0.370	0.533	0.739	0.902	1.066	1.272	1.435	1.598
<b>Input Current @ 240V</b>		0.169	0.327	0.467	0.655	0.794	0.933	1.121	1.260	1.400
<b>Input Current @ 277V</b>		0.150	0.294	0.412	0.588	0.706	0.823	1.000	1.118	1.235
<b>Input Current @ 347V</b>		0.112	0.215	0.316	0.431	0.531	0.632	0.746	0.847	0.947
<b>Input Current @ 480V</b>		0.086	0.160	0.230	0.320	0.390	0.460	0.550	0.620	0.690
<b>Optics</b>										
<b>T1</b>	Lumens	5,895	11,786	17,683	23,620	29,771	35,739	41,913	47,656	53,681
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	148	159	162	161	163	162	163	163	163
<b>T2</b>	Lumens	5,905	11,805	17,711	23,658	29,818	35,796	41,980	47,732	53,766
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	148	160	162	161	163	162	164	163	163
<b>T2R</b>	Lumens	6,070	12,135	18,206	24,319	30,652	36,797	43,154	49,067	55,270
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	153	164	167	165	168	167	168	168	168
<b>T3</b>	Lumens	5,963	11,922	17,887	23,892	30,114	36,151	42,396	48,206	54,300
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	150	161	164	163	165	164	165	165	165
<b>T3R</b>	Lumens	6,118	12,231	18,350	24,511	30,894	37,087	43,494	49,454	55,706
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	154	166	168	167	169	168	169	169	169
<b>T4FT</b>	Lumens	5,890	11,775	17,667	23,599	29,744	35,706	41,875	47,613	53,632
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	148	159	162	161	163	162	163	163	163
<b>T4W</b>	Lumens	5,948	11,891	17,840	23,830	30,035	36,056	42,285	48,079	54,157
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	149	161	163	162	164	164	165	164	164
<b>SL2</b>	Lumens	5,923	11,842	17,766	23,732	29,912	35,908	42,111	47,882	53,935
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	149	160	163	161	164	163	164	164	164
<b>SL3</b>	Lumens	5,824	11,644	17,469	23,335	29,412	35,308	41,407	47,081	53,033
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	146	158	160	159	161	160	161	161	161
<b>SL4</b>	Lumens	5,907	11,810	17,718	23,668	29,831	35,811	41,998	47,752	53,789
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	148	160	162	161	163	162	164	163	163
<b>5NQ</b>	Lumens	6,245	12,484	18,731	25,020	31,535	37,857	44,397	50,480	56,862
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	157	169	172	170	173	172	173	172	173
<b>5MQ</b>	Lumens	6,241	12,477	18,719	25,005	31,516	37,834	44,370	50,450	56,827
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	157	169	171	170	173	172	173	172	172
<b>5WQ</b>	Lumens	6,028	12,051	18,080	24,151	30,440	36,542	42,855	48,728	54,887
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	151	163	166	164	167	166	167	166	167
<b>SLL/SLR</b>	Lumens	5,938	11,871	17,811	23,791	29,986	35,997	42,216	48,001	54,069
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	149	161	163	162	164	163	164	164	164
<b>RW</b>	Lumens	6,137	12,268	18,406	24,587	30,989	37,201	43,628	49,606	55,877
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	154	166	169	167	170	169	170	169	170
<b>AFL</b>	Lumens	6,061	12,117	18,179	24,283	30,606	36,742	43,089	48,993	55,187
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4
	Lumens per Watt	152	164	166	165	168	167	168	167	167

SB Light Squares, Output Level 3, 4000K, 70 CRI

Number of Light Squares		1	2	3	4	5	6	7	8	9
<b>Nominal Power (Watts)</b>		54	101	149	201	250	301	351	400	450
<b>Input Current @ 120V</b>		0.437	0.857	1.259	1.714	2.116	2.518	2.973	3.375	3.776
<b>Input Current @ 208V</b>		0.254	0.498	0.721	0.996	1.219	1.442	1.717	1.940	2.163
<b>Input Current @ 240V</b>		0.223	0.437	0.628	0.874	1.065	1.256	1.501	1.693	1.884
<b>Input Current @ 277V</b>		0.197	0.386	0.550	0.772	0.936	1.100	1.322	1.485	1.649
<b>Input Current @ 347V</b>		0.150	0.292	0.432	0.584	0.724	0.863	1.016	1.155	1.295
<b>Input Current @ 480V</b>		0.111	0.213	0.311	0.427	0.525	0.622	0.738	0.836	0.933
<b>Optics</b>										
<b>T1</b>	Lumens	7,841	15,675	23,517	31,414	39,594	47,531	55,743	63,381	71,393
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	144	155	158	157	159	158	159	159	159
<b>T2</b>	Lumens	7,853	15,700	23,555	31,464	39,657	47,607	55,832	63,482	71,507
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	144	156	158	157	159	158	159	159	159
<b>T2R</b>	Lumens	8,073	16,139	24,214	32,344	40,766	48,938	57,393	65,257	73,507
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	148	160	162	161	163	163	164	163	163
<b>T3</b>	Lumens	7,931	15,856	23,789	31,776	40,051	48,080	56,386	64,112	72,217
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	146	157	160	158	161	160	161	160	161
<b>T3R</b>	Lumens	8,137	16,267	24,405	32,599	41,088	49,325	57,846	65,773	74,087
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	150	161	164	162	165	164	165	165	165
<b>T4FT</b>	Lumens	7,834	15,661	23,496	31,385	39,558	47,488	55,692	63,324	71,329
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	144	155	158	156	159	158	159	158	159
<b>T4W</b>	Lumens	7,910	15,814	23,726	31,693	39,946	47,953	56,238	63,944	72,027
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	145	157	159	158	160	159	160	160	160
<b>SL2</b>	Lumens	7,878	15,749	23,629	31,562	39,781	47,756	56,006	63,681	71,731
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	145	156	158	157	159	159	160	159	159
<b>SL3</b>	Lumens	7,746	15,486	23,234	31,035	39,117	46,958	55,070	62,616	70,532
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	142	153	156	155	157	156	157	157	157
<b>SL4</b>	Lumens	7,857	15,707	23,565	31,477	39,674	47,627	55,855	63,509	71,538
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	144	156	158	157	159	158	159	159	159
<b>5NQ</b>	Lumens	8,305	16,604	24,911	33,275	41,940	50,348	59,046	67,137	75,624
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	153	165	167	166	168	167	168	168	168
<b>5MQ</b>	Lumens	8,300	16,594	24,896	33,255	41,915	50,318	59,010	67,097	75,578
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	153	164	167	166	168	167	168	168	168
<b>5WQ</b>	Lumens	8,017	16,027	24,046	32,120	40,484	48,600	56,996	64,806	72,998
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	147	159	161	160	162	162	163	162	162
<b>SLL/SLR</b>	Lumens	7,897	15,788	23,687	31,641	39,880	47,875	56,146	63,839	71,909
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	145	156	159	158	160	159	160	160	160
<b>RW</b>	Lumens	8,162	16,317	24,480	32,699	41,215	49,476	58,024	65,975	74,315
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	150	162	164	163	165	164	166	165	165
<b>AFL</b>	Lumens	8,061	16,115	24,177	32,295	40,705	48,865	57,307	65,160	73,397
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	148	160	162	161	163	162	164	163	163

SB Light Squares, Output Level 4, 4000K, 70 CRI

Number of Light Squares	1	2	3	4	5	6	7	8	9	
<b>Nominal Power (Watts)</b>	80	148	218	294	365	440	513	585	658	
<b>Input Current @ 120V</b>	0.638	1.234	1.840	2.469	3.094	3.680	4.349	4.934	5.519	
<b>Input Current @ 208V</b>	0.367	0.705	1.045	1.410	1.779	2.090	2.513	2.824	3.135	
<b>Input Current @ 240V</b>	0.320	0.614	0.913	1.227	1.567	1.827	2.220	2.480	2.740	
<b>Input Current @ 277V</b>	0.280	0.537	0.813	1.075	1.402	1.626	1.992	2.215	2.439	
<b>Input Current @ 347V</b>	0.219	0.430	0.640	0.897	1.089	1.280	1.537	1.729	1.920	
<b>Input Current @ 480V</b>	0.160	0.313	0.479	0.700	0.829	0.958	1.179	1.308	1.437	
<b>Optics</b>										
<b>T1</b>	Lumens	10,654	21,299	31,955	42,684	53,800	64,585	75,742	86,121	97,008
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	144	147	145	147	147	148	147	147
<b>T2</b>	Lumens	10,671	21,333	32,006	42,752	53,886	64,688	75,863	86,258	97,162
	BUG Rating	B2-U0-G2	B3-U0-G3	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	145	147	146	148	147	148	147	148
<b>T2R</b>	Lumens	10,969	21,929	32,901	43,948	55,392	66,496	77,984	88,670	99,879
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	149	151	150	152	151	152	152	152
<b>T3</b>	Lumens	10,777	21,545	32,324	43,177	54,420	65,329	76,616	87,114	98,127
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	135	146	148	147	149	148	149	149	149
<b>T3R</b>	Lumens	11,056	22,103	33,161	44,295	55,830	67,022	78,600	89,371	100,668
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	139	150	152	151	153	152	153	153	153
<b>T4FT</b>	Lumens	10,644	21,280	31,926	42,646	53,751	64,526	75,674	86,043	96,920
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	144	146	145	147	147	148	147	147
<b>T4W</b>	Lumens	10,748	21,488	32,239	43,063	54,277	65,158	76,414	86,885	97,869
	BUG Rating	B2-U0-G2	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	135	146	148	147	149	148	149	149	149
<b>SL2</b>	Lumens	10,704	21,400	32,106	42,886	54,054	64,890	76,100	86,528	97,467
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	145	147	146	148	147	148	148	148
<b>SL3</b>	Lumens	10,525	21,042	31,570	42,169	53,151	63,805	74,828	85,082	95,837
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	132	143	145	144	146	145	146	145	146
<b>SL4</b>	Lumens	10,675	21,342	32,020	42,771	53,908	64,715	75,895	86,295	97,204
	BUG Rating	B2-U0-G3	B3-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	134	145	147	146	148	147	148	148	148
<b>5NQ</b>	Lumens	11,285	22,561	33,849	45,214	56,988	68,412	80,230	91,224	102,756
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	142	153	155	154	156	155	156	156	156
<b>5MQ</b>	Lumens	11,278	22,547	33,828	45,187	56,954	68,371	80,182	91,169	102,694
	BUG Rating	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	142	153	155	154	156	155	156	156	156
<b>5WQ</b>	Lumens	10,893	21,778	32,673	43,644	55,009	66,037	77,445	88,057	99,189
	BUG Rating	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	137	148	150	149	151	150	151	151	151
<b>SLL/SLR</b>	Lumens	10,731	21,453	32,186	42,993	54,189	65,051	76,290	86,743	97,709
	BUG Rating	B2-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	135	145	148	146	149	148	149	148	148
<b>RW</b>	Lumens	11,090	22,171	33,263	44,431	56,001	67,228	78,842	89,645	100,978
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	139	150	153	151	153	153	154	153	153
<b>AFL</b>	Lumens	10,953	21,897	32,852	43,882	55,309	66,397	77,868	88,538	99,730
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	148	151	149	152	151	152	151	152

## Control Options

### 0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

### Photocontrol (BPC, PR and PR7)

Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

### After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

### Dimming Occupancy Sensor (SPB and MS/DIM-LXX)

These passive infrared (PIR) sensors are factory installed in the luminaire housing. When the SPB (FSP-321 or FSP-311) or MS/DIM (FSP-211) sensor options are selected, the occupancy sensor is connected to a dimming driver and the luminaire dims when no motion is detected. After a set period of time, the luminaire turns off, and when motion is detected, the luminaire returns to full light output. Both sensors are factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM sensor requires the FSIR-100 programming tool to adjust factory defaults. The SPB sensor default parameters are listed in the table below and can be configured utilizing the Sensor Configuration mobile application for iOS and Android devices. The SPB/X is configured to control only the specified number of light squares (See SPB/X Availability Table below.) An integral photocontrol can be activated with the app for "dusk-to-dawn" control or daylight harvesting - the factory default is off. Four sensor colors are available; Bronze, Black, Gray and White, and are automatically selected based on the luminaire finish as indicated by the table below.

SPB sensor finish matched to luminaire finish		
Luminaire Finish		SPB Sensor Finish*
WH	White	White
BK	Black	Black
GM	Graphite Metallic	Black
BZ	Bronze	Bronze
AP	Gray	Gray
DP	Dark Platinum	Gray

\*SPB bezel color automatically selected based on luminaire finish

SPB/X Availability Table	
Fixture Square Count	Available SPB/X Square Count
1	Not Available
2	Not Available
3	Not Available
4	2
5	2 or 3
6	3
7	2, 3, 4 or 5
8	2, 3, 5 or 6
9	3 or 6

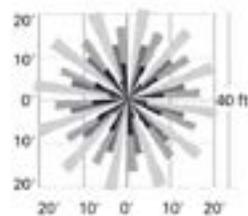
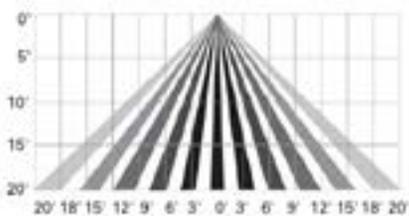
### Default Program Settings (Out of the Box Functionality)

Occupancy Sensor				
Setting	MS/DIM	SPB	WaveLinX Lite (WLS4 / WLS2)	WaveLinX (WPS)
High Mode %	100%	100%	100%	100%
Low Mode %	10%	10%	50%	50%
Time Delay	5 min	5 min	15 min	15 min
Cut Off Delay	1 hr	1 hr	Disabled	Disabled
Photocell Enabled	No	No	Yes	Yes

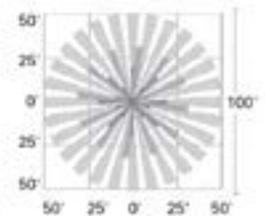
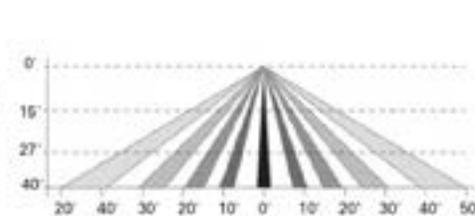
### WaveLinX Wireless Control and Monitoring System

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinX (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinX Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX Lite mobile application for set-up and configuration. WAC not required. WaveLinX Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomical or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

#### For mounting heights up to 15' (WPS2 and WLS2)



#### For mounting heights up to 40' (WPS4 and WLS4)



### AirMesh (DIM10)

AirMesh integrated wireless controls system includes factory installed DIM10 Synapse control module and FSP-201 motion sensor; requires additional AirMesh components for operation. Contact Synapse at [www.synapsewireless.com](http://www.synapsewireless.com) for product support, warranty and terms and conditions.