Potter Lawson
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July 24, 2018
Via email and hand delivery

Plan Commission, Common Council, City Planning and Zoning Departments
City of Fitchburg
5520 Lacy Road
Fitchburg, WI 53711

Re: Cover Letter for proposed development
Phoenix, LLC
Lacy Road, Fitchburg WI

Dear Commission and Council Members:

We are pleased to submit the enclosed documents for the City of Fitchburg's Architectural and Design Review. The proposed Phoenix, LLC project is phased and consists of two buildings with parking and site amenities. Although the proposed site plan indicates the master plan for the entire site (two phases), the submission for review is only for the Phase One building and associated site design.

Phase One is to include a 10,000 sf, single story imaging facility with office support. Construction is to commence October, 2018 with an estimated completion date of Spring 2019. This building is considered an "out-building" and is located on the southern portion of the site adjacent to the wetlands. Vehicle/truck access to this facility will be from a proposed entrance drive off Lacy Road at the southwest corner of the site. Siting of the Phase One building is due to maintaining required distances from adjacent structures to accommodate the Imaging process. Future expansion, parking for 20 vehicles, loading requirements, bike parking, trash pick-up and fire department access have all been incorporated into the design for the Phase One building.

Phase Two is programmed to include a 50,000 sf manufacturing facility including a loading dock and one or two story office component. Construction is to commence mid-2019 with a completion date of mid-2020. This building will be the primary facility on the site and is located along Lacy Road to maximize street frontage and public visibility. The site accommodates a 40,000 sf expansion along Lacy Road, however, no date has been established as to when the expansion will occur. 143 parking stalls have been designated for Phase Two with future expansion capabilities. Vehicle and truck access will occur at the proposed northeast corner of the site with the truck drive diverted around the parking lot to minimize cars backing into truck traffic. Trucks will exit the site at the southwest driveway. Bike parking, trash pick-up and fire department access have all been incorporated into the master plan.

We are excited to present the design for the Phoenix, LLC complex to the City of Fitchburg and look forward to working with you as the project moves forward. Thank you and please contact me if you have any questions regarding this submittal.

Sincerely,

Ron Loeast
Potter Lawson, Project Manager

THE CITY OF Fitchburg	City of Fitchburg Planning/Zoning Department 5520 Lacy Road Fitchburg, WI 53711 (608-270-4200)	**ARCHITECTURAL & DESIGN REVIEW APPLICATION**

Applicant/Contact Person: POTTER LAWSON INC., RON LOCAST

Address: 749 UNIVERSITY ROW #300 **Phone Number of Contact Person:** 608.274.2741

City, State, Zip Code: MADISON, WI 53705 **Email of Contact Person:** ron@potterlawson.com

Project Address: T.B.D. Lacy Rd, South of E. Cheryl Pkwy **Lot:** 12 Part of outlot **Subdivision:** NINE SPRINGS

Project Type: ____ **Multi-Family** ✓ **Commercial** ____ **Industrial** ____ **Other**

✓ **New** ____ **Addition**

Impervious Surface Ratio (ISR): 65% (City Standard: maximum 65% ISR)

All items listed below must be included with the application to be considered complete. If an item is not included with the application, the applicant must provide in writing the basis for not including it. Building and site plans submitted to the Fitchburg Plan Commission for architectural and design review shall contain the following information:

Site Data:

- ☑ 1. Lot or property dimensions.
- ☑ 2. Orientation (to north).
- ☑ 3. Adjacent highways, roads, drive, etc.
- ☑ 4. Existing natural features (rivers, ponds, wetlands).
- ☑ 5. Existing buildings and/or improvements.
- ☑ 6. Existing and proposed site drainage.
- ☑ 7. Utility plans, including main/lateral sizes and existing fire hydrants on site or within 300 feet of the site
- ☑ 8. ISR shall be indicated on all plans. (In stormwater mgmt report)
- ☑ 9. Stormwater management plans and details, including grading plan.
- ☑ 10. Lighting plan in footcandles and light fixture cut sheets.

Building:

- ☑ 1. Building size, configuration and orientation.
- ☑ 2. Distance from lot lines.
- ☑ 3. Distance from other buildings, improvements and natural features.
- NA ☐ 4. Location of well, septic tank, drainfield, etc. (if applicable)
- ☑ 5. Additional proposed additions or new structures, including trash/recycling enclosure(s).
- ☑ 6. Construction type (wood frame, structural steel, etc.).
- ☑ 7. Foundation type (full basement, slab on grade, etc.).
- ☑ 8. Number of levels.
- ☑ 9. Siding/exterior covering type, color, texture, etc.
- ☑ 10. Roof type (gable, hip, shed, flat, etc.) and pitch.
- ☑ 11. Roofing material type, color, texture, etc.
- ☑ 12. Exterior door and window location, size, type, etc.
- ☑ 13. Fire protection sprinklers or fire alarm systems.

Ingress, Egress, Parking:

- ☑ 1. Location of highway and road access points.
- ☑ 2. Location, size, configuration of drivers and walks.
- ☑ 3. Number, size, location of parking spaces.
- ☑ 4. Location of handicapped parking and accessible building entrances.
- ☑ 5. Bicycle rack(s).

Landscaping:

- ☑ 1. Location, species, size of existing trees, shrubs, and plantings.
- ☑ 2. Location, species, size of proposed plantings.
- ☑ 3. Location and size of all paved, seeded/sodded and gravelled areas.
- ☑ 4. Location of all retaining walls, fences, berms and other landscape features.

***It is highly recommended that an applicant hold at least one neighborhood meeting prior to submitting an ADR application to identify any concerns or issues of surrounding residents.**

The preceding information is considered to be the minimum information for submission, and the City may require additional information for its review. Any interpretations provided by city officials as the result of submitting the attached information are based on the submitted plans, and any plan changes, may affect the interpretations.

It is the responsibility of the owner/applicant to insure compliance with all local and state requirements. The below signed applicant acknowledges the above information and hereby submits the attached information for the City's Architectural and Design Review Process.

Signed: [signature] **Date:** 7/24/18
Applicant or Authorized Agent

***** Application shall be accompanied by one (1) sets of full-size plans, two (2) sets no larger than 11"x17", and one (1) pdf document of the complete submittal to planning@fitchburgwi.gov. Applications are due at least 4 weeks prior to the desired Plan Commission Meeting. The time frame assumes a complete set of plans is provided, and if it is not provided the Plan Commission date will be adjusted.**

FOR CITY USE ONLY

Date Received: ____________ **Plan Commission Date:** ____________

Comments:

THE CITY OF Fitchburg PLANNING & ZONING	City of Fitchburg Planning/Zoning Department 5520 Lacy Road Fitchburg, Wi 53711 (608-270-4200)	**SMARTCODE** **BUILDING/SITE PLAN APPLICATION (ARTICLE 5)**

1. **Location of Property:**
   Street Address: T.B.D. Lacy Rd. - South of E. Cheryl Pkwy
   Legal Description - (Metes & Bounds, or Lot No. And Plat): Part of outlot 12, Nine Springs

2. **Description of Project:** Phase 1: 10,000sf single story Imaging facility

3. **Existing Transect Zone:** - **Article 3 or Article 4 approval date:** T.B.D.

4. **Size of Site:** 10.4 acres **Site Density (if applicable):** NA.

5. **Building/Site Plan applications shall provide plans and information showing the following:**

- ☑ 1. Building Disposition
- ☑ 2. Building Configuration
- ☑ 3. Building Use
- ☑ 4. Parking calculation & location
- NA ☐ 5. Number of dwelling units
- NA ☐ 6. Base Residential Density
- ☑ 7. Building square footage
- Per SD2 ☑ 8. All requests for Administrative Waivers, if any
- ☑ 9. All requests for Administrative Approvals, if any
- NA ☐ 10. All known requests for Conditional Use Permits, if any
- NA ☐ 11. Civic Building design(s)
- ☑ 12. Landscape Standards
- NA ☐ 13. Signage Standards (Future Submittal)
- ☑ 14. Special Requirements, if any
- ☑ 15. Architectural Standards
- ☑ 16. Fencing Standards
- ☑ 17. Lighting Standards
- ☑ 17. Grading Plan
- ☑ 18. Statistics, maps and other documentation showing how the Article 5 application, in combination with the past approved Article 5 plans, will meet the approved Community Regulating Plan, and the standards of this Chapter.

***Also submit all mapping in either CADD or GIS files

Current Owner(s) of Property: Phoenix RE, LLC

Address: 749 University Row, Suite 100 **Phone No.:** 608.260.7007

Contact Person: Paul Lenhart **E-mail:** plenhart@kruppconstruction.com

Address: 749 University Row, Suite 100 **Phone No.:** 608.260.7007

Respectfully Submitted By: Ron Locust **Date:** 7/24/18
Owner's or Authorized Agent's Signature
*(If multiple owners, application shall include statement of consent by all property owners)

PLEASE NOTE – Applicants shall be responsible for legal or outside consultant costs incurred by the City. It is the responsibility of the owner/applicant to insure compliance with all local and state requirements.

*Application shall be accompanied by one (1) PDF document of complete submittal, one (1) full-size set of plans, two (2) reduced sets of plans (11" x 17"), and the required CADD or GIS files for mapping.

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Date Received: _____ **Permit Request No.:** _____

SITE PLAN REVIEW CHECKLIST:

YES	NO	
✓		Signed and completed Building / Site Plan – Article 5 Application
✓		Proposals / design compliant with Ch. 23 SmartCode District
✓		Vicinity map (no larger than 11 x 17)
✓		2 (two) reduced size (11 x 17) plan sets
✓		1 (one) full set of bounded drawings, include landscape plans
✓		1 (one) electronic copy (.tif or .pdf) of the plan set
✓		CADD or GIS files for all mapping
		Plans to include existing and proposed information on the following:
✓		Location of structures, improvements and landscaping
✓		North arrow and scale bar
✓		Site boundaries
✓		Setback distance from property lines
✓		Rights-of-way, property lines and easements
✓		Location & dimensions of driveways, streets and sidewalks
✓		On-site parking and circulation
✓		Location of loading spaces, if applicable
✓		Location of trash receptacle enclosure
✓		Location of all outdoor electrical, plumbing and mechanical equipment
✓		Landscaping Plan for site
	✓	Signage Plan for site (type & fixtures) [Future Submittal]
✓		Elevations for each side of the building detailing the materials & colors
✓		Fencing Plan (if installing fence)
✓		Lighting Plan (in footcandles) & fixtures cut-sheets
✓		Grading Plan
✓		Site plan data table containing: transect zone, site size in square feet or acres, lot coverage by building in square feet and percentage, residential density in units per acre (if applicable), square feet of impervious surface and parking and landscaping calculations.
[See Plans]		

ARTICLE 5 SUPPLEMENTAL FORM:

Building Disposition:

Lot(s) Part of outlot 12, Nine Springs Plat T.B.D.: Once CSM, dated 7.11.18, is recorded

Transect Zone: -

Lot Width Varies. See Site plan Lot Coverage N.A. (See Site Plan)

Type of Building: ☑ Edgeyard ☐ Sideyard ☐ Rearyard ☐ Courtyard ☐ Specialized

Phase 2: [Future Submittal]

Principal Building Setbacks: Front (principal) _____ Front (secondary) NA Side _____ Rear varies. See Site Plan

Primary Setback: _____ feet Frontage buildout (if applicable): 28 %

Outbuilding: ☑ Yes ☐ No

Outbuilding Setbacks: Front 475'-552' Side varies Rear 17'-19'

Building Configuration:

Type of Private Frontage: ☐ Common Yard ☐ Porch & Fence ☐ Light court ☐ Forecourt

N.A.

☐ Stoop ☐ Shopfront ☐ Gallery ☐ Arcade

☐ Parking Lot ☐ Common Entry & Planter

% of clear glass of 1st story Façade: 6.8 %

Overall building height: 23'-30'3" feet 1 stories Phase 2: T.B.D.

Phase 1 1st story: 23'-30'3" feet

2nd story: NA feet

[X] story: NA feet

Building Use:

Use of principal building: Phase 1: Imaging, Phase 2: office, tech, manufacturing

# of residential dwelling units in principal building (if applicable): NA dwelling units

Use of accessory building: Phase 1: Imaging

*If multiple uses in building, please provide square footage of each type of use.

Parking & Density:

# of parking stalls provided within the Lot: Phase 1: 15 Phase 2: 143

# of parking stalls along parking lane corresponding to the Lot Frontage: 0

# of parking stalls by lease or purchase from a Civic Parking Reserve within the Community Unit: 0

If looking to use Effective Parking standards, applicant shall provide completed Parking Occupancy Rate Table (Table 20)

Current density for transect zone within the block: - (per 5.9.2f)

Parking Location:

Drive width: 26', 30': Phase 1

Material of parking / drive areas: Asphalt

Landscape:

% of landscape area of 1st Layer of Principal Frontage: T.B.D in Phase 2 % (minimum 30%)

% of landscape area of 1st Layer of Secondary Frontage: NA % (minimum 30%)

# of trees planted within the 1st Layer: T.B.D in Phase 2

Requirements: T3 – 1 tree shall be planted within the 1st Layer for every 800 sq. ft of landscape area

T4 – minimum of 1 Understory Tree or 6 shrubs planted within 1st Layer for every 500 sq. ft. of 1st Layer landscape area.

T5 – Trees not required in 1st Layer.

Signage: [Future Submittal]

A or B grid street: _____

Type of sign: _____
(* note: A sign permit is required for all signs)

Architectural:

Type of building materials: See Elevations A201 + Cut sheets
(See Section 5.13.4.c for requirements if using vinyl product.)

For single-family Edgeyard & Sideyard Residential, durable material used in height of 2 ft. above grade:

NA

Fence: ☑ Yes ☐ No

If yes, fence at the 1st Layer shall be painted or stained.

Balcony or porch: ☐ Yes ☑ No

If yes, material of railings: _____

Fencing:

Height of fence (if applicable): 6'-0" feet

Lighting:
Are all parking lot and exterior building lighting on private lots dark sky approved or full cut-off fixtures? ☑ Yes [illegible]

Average lighting levels, in footcandles, at the building frontage line: See lighting photometrics Plan E1.0

Imaging Facility

Phoenix, LLC
Lacy Road
Fitchburg, WI 53711
2017.40.00

City of Fitchburg Submittal

Drawing Index

C = Issued for Construction
B = Issued for Bidding
R = Issued for Reference Only

DWG #	Drawing Title	07/247/2018 City of Fitchburg Submittal
General		
CD01	Cover Drawing	R
Civil		
C001	Existing Topo	R
C100	Site Plan	R
C200	Grading and Erosion Control Plan	R
C300	Utility Plan	R
C400	Detail Sheet	R
Landscape		
L-100	Landscape Plan	R
Architectural		
A003	Exterior Images	R
A101	First Floor Plan	R
A102	Roof Plan	R
A201	Building Elevations	R
Electrical		
E1.0	Site Light Calculations	R

7/24/2018 1:08:47 PM

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GENERAL CONTRACTORS

PHOENIX

Architect:
749 University Row Suite 300
Madison, WI 53705
608-274-2741

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Imaging Facility
Phoenix, LLC

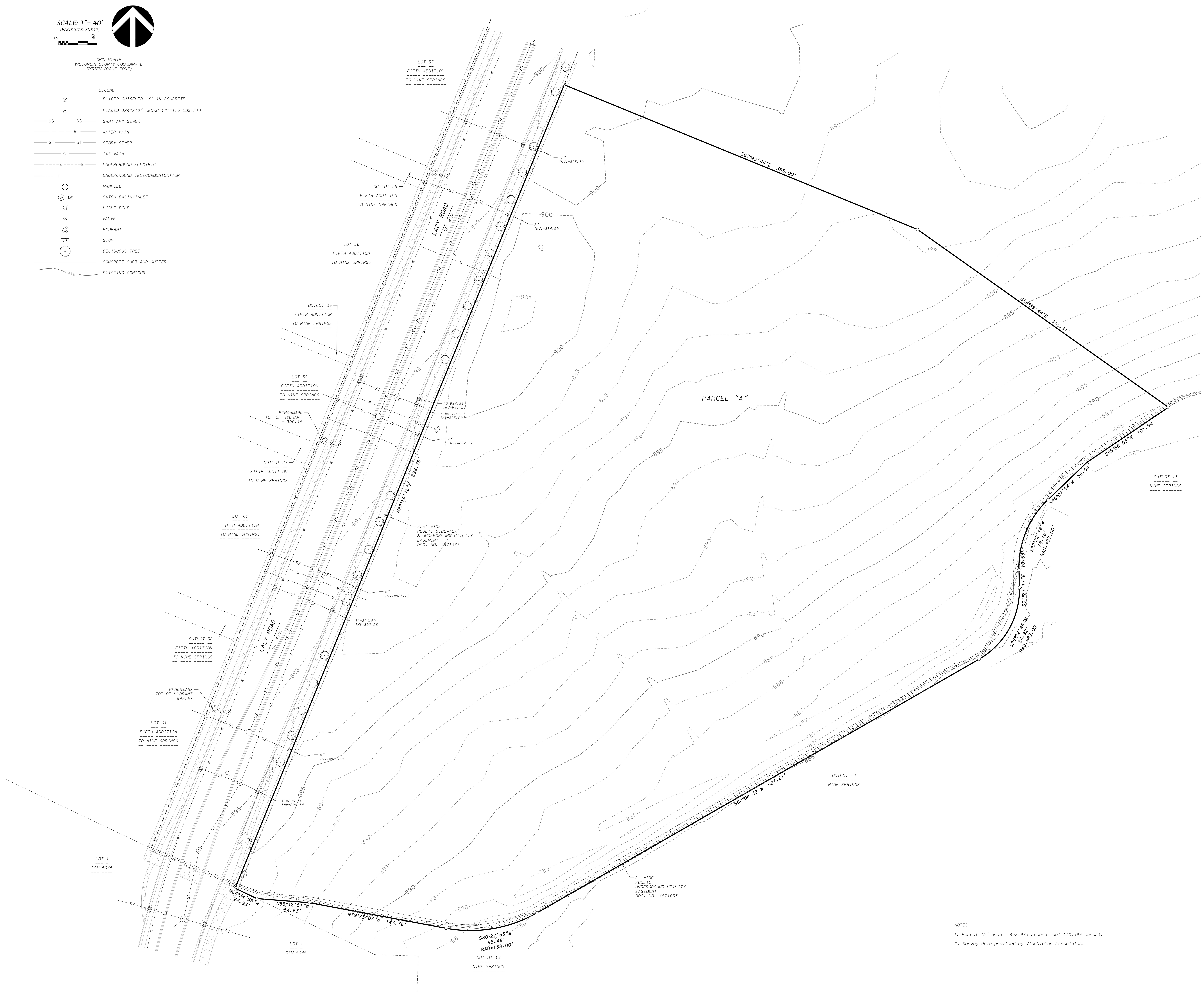
Lacy Road
Fitchburg, WI 53711

2017.40.00

Date	Issuance/Revisions	Symbol
07/24/2018	City of Fitchburg Submittal	

Cover Drawing

CD01



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KRUPP GENERAL CONTRACTORS

PHOENIX

D'ONOFRIO KOTTKE AND ASSOCIATES, INC.

Notes:

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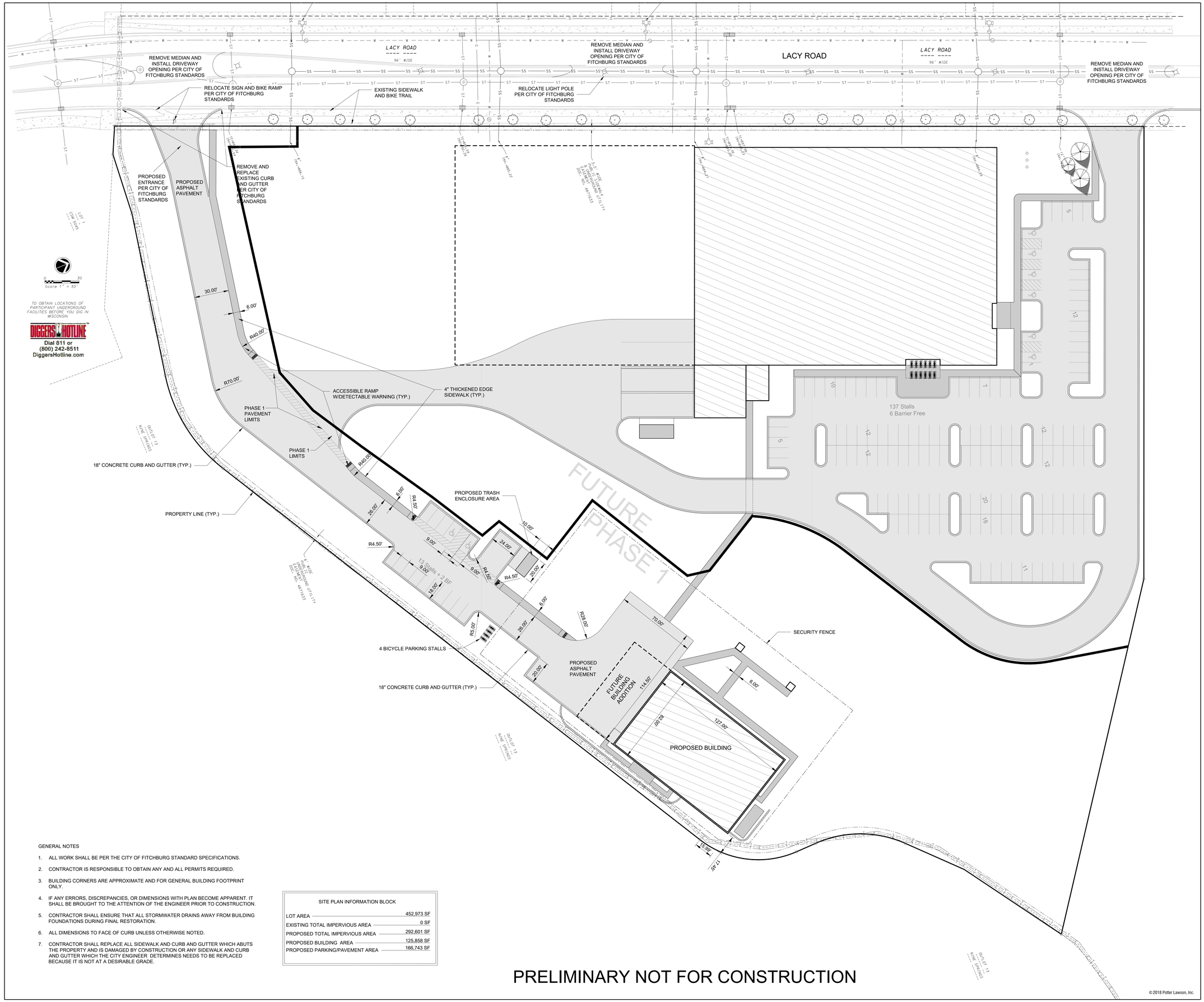
Existing Topo

C001

7/18/2018 8:12:10 AM



GENERAL NOTES

1. ALL WORK SHALL BE PER THE CITY OF FITCHBURG STANDARD SPECIFICATIONS.
2. CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED.
3. BUILDING CORNERS ARE APPROXIMATE AND FOR GENERAL BUILDING FOOTPRINT ONLY.
4. IF ANY ERRORS, DISCREPANCIES, OR DIMENSIONS WITH PLAN BECOME APPARENT. IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL ENSURE THAT ALL STORMWATER DRAINS AWAY FROM BUILDING FOUNDATIONS DURING FINAL RESTORATION.
6. ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL REPLACE ALL SIDEWALK AND CURB AND GUTTER WHICH ABUTS THE PROPERTY AND IS DAMAGED BY CONSTRUCTION OR ANY SIDEWALK AND CURB AND GUTTER WHICH THE CITY ENGINEER DETERMINES NEEDS TO BE REPLACED BECAUSE IT IS NOT AT A DESIRABLE GRADE.

SITE PLAN INFORMATION BLOCK	
LOT AREA	452,973 SF
EXISTING TOTAL IMPERVIOUS AREA	0 SF
PROPOSED TOTAL IMPERVIOUS AREA	292,601 SF
PROPOSED BUILDING AREA	125,858 SF
PROPOSED PARKING/PAVEMENT AREA	166,743 SF

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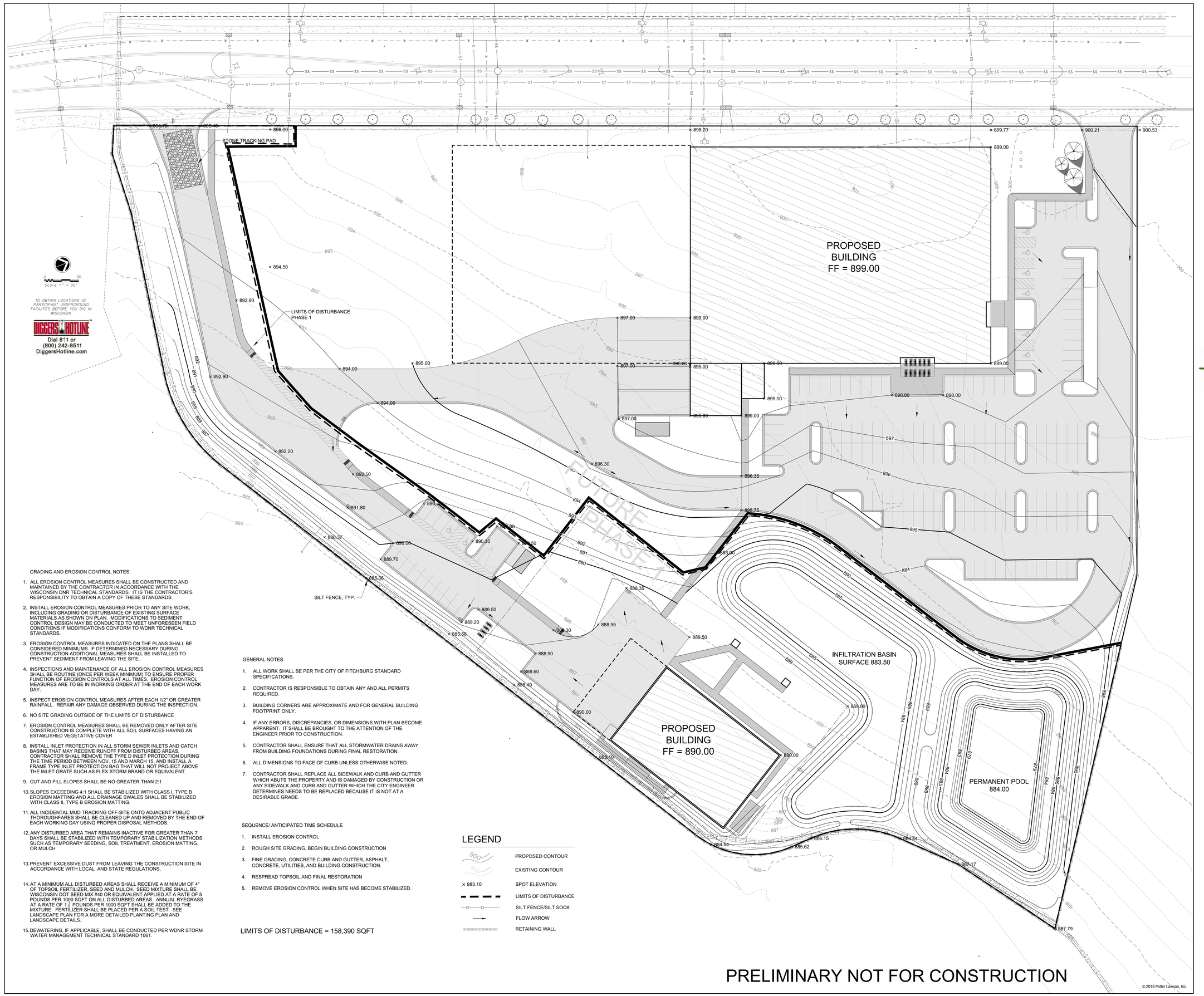
Site Plan

C100



TO OBTAIN LOCATIONS OF PARTICIPANT UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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

GRADING AND EROSION CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DNR TECHNICAL STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS.
2. INSTALL EROSION CONTROL MEASURES PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIALS AS SHOWN ON PLAN. MODIFICATIONS TO SEDIMENT CONTROL DESIGN MAY BE CONDUCTED TO MEET UNFORESEEN FIELD CONDITIONS IF MODIFICATIONS CONFORM TO WDNR TECHNICAL STANDARDS.
3. EROSION CONTROL MEASURES INDICATED ON THE PLANS SHALL BE CONSIDERED MINIMUMS. IF DETERMINED NECESSARY DURING CONSTRUCTION ADDITIONAL MEASURES SHALL BE INSTALLED TO PREVENT SEDIMENT FROM LEAVING THE SITE.
4. 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.
5. INSPECT EROSION CONTROL MEASURES AFTER EACH 1/2" OR GREATER RAINFALL. REPAIR ANY DAMAGE OBSERVED DURING THE INSPECTION.
6. NO SITE GRADING OUTSIDE OF THE LIMITS OF DISTURBANCE
7. EROSION CONTROL MEASURES SHALL BE REMOVED ONLY AFTER SITE CONSTRUCTION IS COMPLETE WITH ALL SOIL SURFACES HAVING AN ESTABLISHED VEGETATIVE COVER
8. INSTALL INLET PROTECTION IN ALL STORM SEWER INLETS AND CATCH BASINS THAT MAY RECEIVE RUNOFF FROM DISTURBED AREAS. CONTRACTOR SHALL REMOVE THE TYPE D INLET PROTECTION DURING THE TIME PERIOD BETWEEN NOV. 15 AND MARCH 15, AND INSTALL A FRAME TYPE INLET PROTECTION BAG THAT WILL NOT PROJECT ABOVE THE INLET GRATE SUCH AS FLEX STORM BRAND OR EQUIVALENT.
9. CUT AND FILL SLOPES SHALL BE NO GREATER THAN 2:1
10. SLOPES EXCEEDING 4:1 SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING AND ALL DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS II, TYPE B EROSION MATTING.
11. ALL INCIDENTAL MUD TRACKING OFF-SITE ONTO ADJACENT PUBLIC THOROUGHFARES SHALL BE CLEANED UP AND REMOVED BY THE END OF EACH WORKING DAY USING PROPER DISPOSAL METHODS.
12. ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 DAYS SHALL BE STABILIZED WITH TEMPORARY STABILIZATION METHODS SUCH AS TEMPORARY SEEDING, SOIL TREATMENT, EROSION MATTING, OR MULCH
13. PREVENT EXCESSIVE DUST FROM LEAVING THE CONSTRUCTION SITE IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
14. AT A MINIMUM ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL FERTILIZER, SEED AND MULCH. SEED MIXTURE SHALL BE WISCONSIN DOT SEED MIX #40 OR EQUIVALENT APPLIED AT A RATE OF 5 POUNDS PER 1000 SQFT ON ALL DISTURBED AREAS. ANNUAL RYEGRASS AT A RATE OF 1 | POUNDS PER 1000 SQFT SHALL BE ADDED TO THE MIXTURE. FERTILIZER SHALL BE PLACED PER A SOIL TEST. SEE LANDSCAPE PLAN FOR A MORE DETAILED PLANTING PLAN AND LANDSCAPE DETAILS.
15. DEWATERING, IF APPLICABLE, SHALL BE CONDUCTED PER WDNR STORM WATER MANAGEMENT TECHNICAL STANDARD 1061.

GENERAL NOTES

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4. IF ANY ERRORS, DISCREPANCIES, OR DIMENSIONS WITH PLAN BECOME APPARENT. IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL ENSURE THAT ALL STORMWATER DRAINS AWAY FROM BUILDING FOUNDATIONS DURING FINAL RESTORATION.
6. ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL REPLACE ALL SIDEWALK AND CURB AND GUTTER WHICH ABUTS THE PROPERTY AND IS DAMAGED BY CONSTRUCTION OR ANY SIDEWALK AND CURB AND GUTTER WHICH THE CITY ENGINEER DETERMINES NEEDS TO BE REPLACED BECAUSE IT IS NOT AT A DESIRABLE GRADE.

SEQUENCE/ ANTICIPATED TIME SCHEDULE

1. INSTALL EROSION CONTROL
2. ROUGH SITE GRADING, BEGIN BUILDING CONSTRUCTION
3. FINE GRADING, CONCRETE CURB AND GUTTER, ASPHALT, CONCRETE, UTILITIES, AND BUILDING CONSTRUCTION.
4. RESPREAD TOPSOIL AND FINAL RESTORATION
5. REMOVE EROSION CONTROL WHEN SITE HAS BECOME STABILIZED.

LIMITS OF DISTURBANCE = 158,390 SQFT

LEGEND

- PROPOSED CONTOUR
- EXISTING CONTOUR
- × 983.10 SPOT ELEVATION
- LIMITS OF DISTURBANCE
- SILT FENCE/SILT SOCK
- FLOW ARROW
- RETAINING WALL

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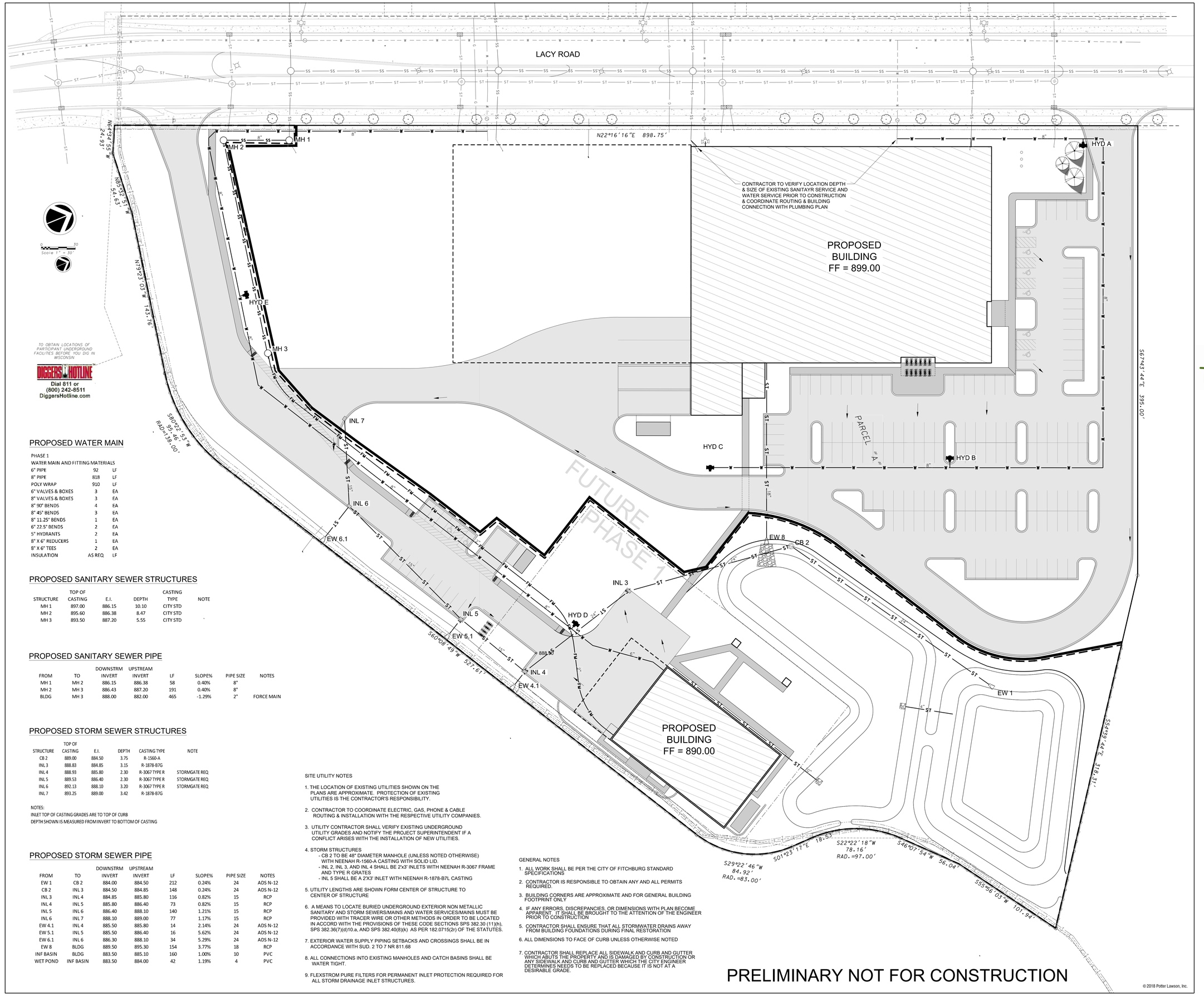
Grading and Erosion Control Plan

C200



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PROPOSED WATER MAIN

PHASE 1

WATER MAIN AND FITTING MATERIALS		
6" PIPE	92	LF
8" PIPE	818	LF
POLY WRAP	910	LF
6" VALVES & BOXES	3	EA
8" VALVES & BOXES	3	EA
8" 90° BENDS	4	EA
8" 45° BENDS	3	EA
8" 11.25° BENDS	1	EA
6" 22.5° BENDS	2	EA
5" HYDRANTS	2	EA
8" X 6" REDUCERS	1	EA
8" X 6" TEES	2	EA
INSULATION	AS REQ.	LF

PROPOSED SANITARY SEWER STRUCTURES

STRUCTURE	TOP OF CASTING	E.I.	DEPTH	CASTING TYPE	NOTE
MH 1	897.00	886.15	10.10	CITY STD	
MH 2	895.60	886.38	8.47	CITY STD	
MH 3	893.50	887.20	5.55	CITY STD	

PROPOSED SANITARY SEWER PIPE

FROM	TO	DOWNSTRM INVERT	UPSTREAM INVERT	LF	SLOPE%	PIPE SIZE	NOTES
MH 1	MH 2	886.15	886.38	58	0.40%	8"	
MH 2	MH 3	886.43	887.20	191	0.40%	8"	
BLDG	MH 3	888.00	882.00	465	-1.29%	2"	FORCE MAIN

PROPOSED STORM SEWER STRUCTURES

STRUCTURE	TOP OF CASTING	E.I.	DEPTH	CASTING TYPE	NOTE
CB 2	889.00	884.50	3.75	R-1560-A	
INL 3	888.83	884.85	3.15	R-1878-B7G	
INL 4	888.93	885.80	2.30	R-3067 TYPE R	STORMGATE REQ.
INL 5	889.53	886.40	2.30	R-3067 TYPE R	STORMGATE REQ.
INL 6	892.13	888.10	3.20	R-3067 TYPE R	STORMGATE REQ.
INL 7	893.25	889.00	3.42	R-1878-B7G	

NOTES:
INLET TOP OF CASTING GRADES ARE TO TOP OF CURB
DEPTH SHOWN IS MEASURED FROM INVERT TO BOTTOM OF CASTING

PROPOSED STORM SEWER PIPE

FROM	TO	DOWNSTRM INVERT	UPSTREAM INVERT	LF	SLOPE%	PIPE SIZE	NOTES
EW 1	CB 2	884.00	884.50	212	0.24%	24	ADS N-12
CB 2	INL 3	884.50	884.85	148	0.24%	24	ADS N-12
INL 3	INL 4	884.85	885.80	116	0.82%	15	RCP
INL 4	INL 5	885.80	886.40	73	0.82%	15	RCP
INL 5	INL 6	886.40	888.10	140	1.21%	15	RCP
INL 6	INL 7	888.10	889.00	77	1.17%	15	RCP
EW 4.1	INL 4	885.50	885.80	14	2.14%	24	ADS N-12
EW 5.1	INL 5	885.50	886.40	16	5.62%	24	ADS N-12
EW 6.1	INL 6	886.30	888.10	34	5.29%	24	ADS N-12
EW 8	BLDG	889.50	895.30	154	3.77%	18	RCP
INF BASIN	BLDG	883.50	885.10	160	1.00%	10	PVC
WET POND	INF BASIN	883.50	884.00	42	1.19%	4	PVC

SITE UTILITY NOTES

1. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. PROTECTION OF EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY.
2. CONTRACTOR TO COORDINATE ELECTRIC, GAS, PHONE & CABLE ROUTING & INSTALLATION WITH THE RESPECTIVE UTILITY COMPANIES.
3. UTILITY CONTRACTOR SHALL VERIFY EXISTING UNDERGROUND UTILITY GRADES AND NOTIFY THE PROJECT SUPERINTENDENT IF A CONFLICT ARISES WITH THE INSTALLATION OF NEW UTILITIES.
4. STORM STRUCTURES
   - CB 2 TO BE 48" DIAMETER MANHOLE (UNLESS NOTED OTHERWISE) WITH NEENAH R-1560-A CASTING WITH SOLID LID.
   - INL 2, INL 3, AND INL 4 SHALL BE 2'x3' INLETS WITH NEENAH R-3067 FRAME AND TYPE R GRATES
   - INL 5 SHALL BE A 2'X3' INLET WITH NEENAH R-1878-B7L CASTING
5. UTILITY LENGTHS ARE SHOWN FORM CENTER OF STRUCTURE TO CENTER OF STRUCTURE
6. A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NON METALLIC SANITARY AND STORM SEWERS/MAINS AND WATER SERVICES/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORD WITH THE PROVISIONS OF THESE CODE SECTIONS SPS 382.30 (11)(h), SPS 382.36(7)(d)10.a, AND SPS 382.40(8)(k) AS PER 182.0715(2r) OF THE STATUTES.
7. EXTERIOR WATER SUPPLY PIPING SETBACKS AND CROSSINGS SHALL BE IN ACCORDANCE WITH SUD. 2 TO 7 NR 811.68
8. ALL CONNECTIONS INTO EXISTING MANHOLES AND CATCH BASINS SHALL BE WATER TIGHT.
9. FLEXSTROM PURE FILTERS FOR PERMANENT INLET PROTECTION REQUIRED FOR ALL STORM DRAINAGE INLET STRUCTURES.

GENERAL NOTES

1. ALL WORK SHALL BE PER THE CITY OF FITCHBURG STANDARD SPECIFICATIONS
2. CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED.
3. BUILDING CORNERS ARE APPROXIMATE AND FOR GENERAL BUILDING FOOTPRINT ONLY
4. IF ANY ERRORS, DISCREPANCIES, OR DIMENSIONS WITH PLAN BECOME APPARENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION
5. CONTRACTOR SHALL ENSURE THAT ALL STORMWATER DRAINS AWAY FROM BUILDING FOUNDATIONS DURING FINAL RESTORATION
6. ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED
7. CONTRACTOR SHALL REPLACE ALL SIDEWALK AND CURB AND GUTTER WHICH ABUTS THE PROPERTY AND IS DAMAGED BY CONSTRUCTION OR ANY SIDEWALK AND CURB AND GUTTER WHICH THE CITY ENGINEER DETERMINES NEEDS TO BE REPLACED BECAUSE IT IS NOT AT A DESIRABLE GRADE.

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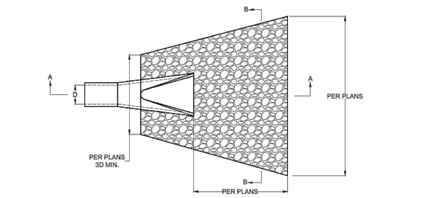
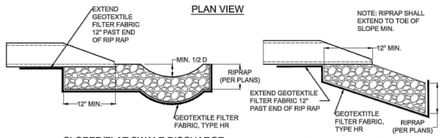
Utility Plan

C300



PLAN VIEW

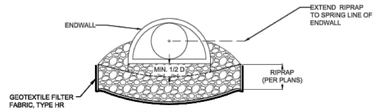


SLOPED/FLAT SWALE DISCHARGE AND FLAT POND DISCHARGE

SLOPED POND DISCHARGE

CROSS SECTION A-A

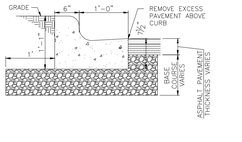
1) JOINT TIES SHALL BE INSTALLED AT THE LAST (DOWNSTREAM) TWO JOINTS ON ANY PIPE RUN ENDING IN AN APRON ENDWALL.



CROSS SECTION B-B

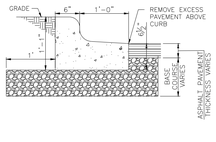
RIP RAP AND ENDWALL INSTALLATION

NOT TO SCALE



6" CONCRETE HOLDING CURB & GUTTER

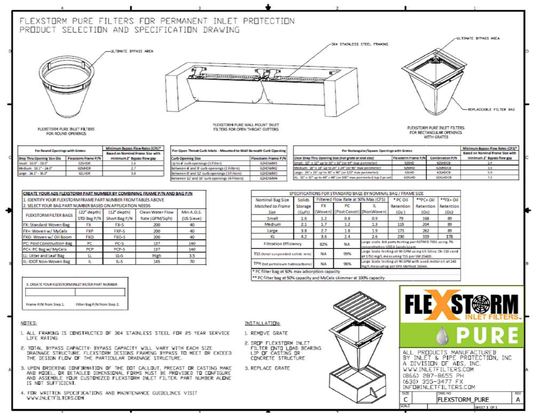
NOT TO SCALE

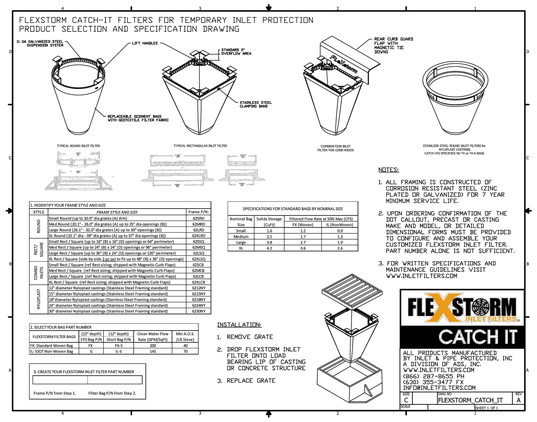


6" CONCRETE REJECT CURB & GUTTER

NOT TO SCALE

GENERAL NOTES:
- SEE GRADING PLAN TO DETERMINE LOCATIONS OF HOLDING OR REJECT CURBS.
- IF SIDEWALK ABUTS CURB, BACK OF CURB TO BE "STRING LINE" STRAIGHT & RUBBED CLEAN.
- PROVIDE CONTROL JOINTS 10's O.C. PROVIDE EXPANSION JOINTS 50' O.C.
- EARTHWORK CONTRACTOR TO SUBGRADE AND STONE 12" BEYOND BACK OF CURB TO PROVIDE COMPACTED LEVELING BASE FOR CURB AND GUTTER.
- EARTHWORK CONTRACTOR TO REMOVE ALL EXCESS STONE BEHIND BACK OF CURB IN LANDSCAPE ISLANDS. THIS APPLIES TO EXCESS STONE BEYOND 12" AT BACK OF CURB.
- PAVING CONTRACTOR SHALL PROVIDE FLUSH ASPHALT PAVING TO CONCRETE CURB. IF SURFACE COURSE IS RAISED AFTER PAVING, PAVING CONTRACTOR SHALL HEAT UP, REMOVE AND COMPACT EXCESS PAVEMENT.





STANDARD TRENCH COMPACTION
ALL BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12" BEFORE COMPACTION UNLESS AUTHORIZED BY THE ENGINEER DUE TO THE CHARACTER OF THE MATERIAL AND THE COMPACTING EQUIPMENT. EACH LIFT SHALL BE MECHANICALLY COMPACTED TO THE REQUIRED DENSITY PRIOR TO PLACING SUCCEEDING LIFTS OF BACKFILL MATERIAL.

SECTION 1:
MECHANICALLY COMPACTED BEDDING AS REQUIRED BY THE SPECIFICATIONS. COMPACTION ACHIEVED WITH SMALLER PLATE COMPACTOR.

SECTION 2:
MINIMUM COMPACTION 90% MAXIMUM DENSITY.
COMPACTION OF BACKFILL WITH BOMAG OR HOE-PAC SHALL NOT BEGIN UNTIL THE DEPTH OF BACKFILL MATERIAL IS TWO (2) FEET ABOVE THE TOP OF PIPE.

SECTION 3:
MINIMUM COMPACTION 95% MAXIMUM DENSITY.

STORM SEWER TRENCH

NOT TO SCALE

STANDARD TRENCH COMPACTION
ALL BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12" BEFORE COMPACTION UNLESS AUTHORIZED BY THE ENGINEER DUE TO THE CHARACTER OF THE MATERIAL AND THE COMPACTING EQUIPMENT. EACH LIFT SHALL BE MECHANICALLY COMPACTED TO THE REQUIRED DENSITY PRIOR TO PLACING SUCCEEDING LIFTS OF BACKFILL MATERIAL.

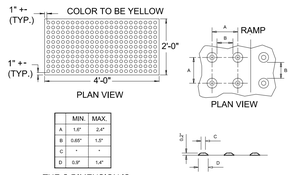
SECTION 1:
MECHANICALLY COMPACTED BEDDING AS REQUIRED BY THE SPECIFICATIONS. COMPACTION ACHIEVED WITH SMALLER PLATE COMPACTOR.

SECTION 2:
MINIMUM COMPACTION 90% MAXIMUM DENSITY.
COMPACTION OF BACKFILL WITH BOMAG OR HOE-PAC SHALL NOT BEGIN UNTIL THE DEPTH OF BACKFILL MATERIAL IS TWO (2) FEET ABOVE THE TOP OF PIPE.

SECTION 3:
MINIMUM COMPACTION 95% MAXIMUM DENSITY.

SANITARY SEWER AND WATER MAIN TRENCH

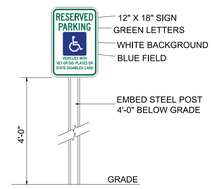
NOT TO SCALE



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

TRUNCATED DOMES DETECTABLE WARNING FIELD (TYPICAL)

NOT TO SCALE



HANDICAP PARKING SIGN

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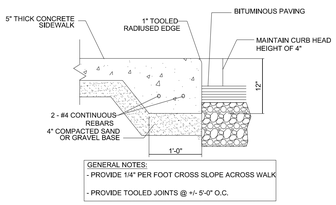
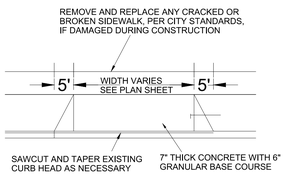


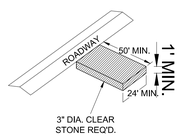
THICKENED EDGE CONCRETE WALK DETAIL

NOT TO SCALE



COMMERCIAL DRIVE ENTRANCE

NOT TO SCALE



STONE TRACKING PAD DETAIL

NOT TO SCALE

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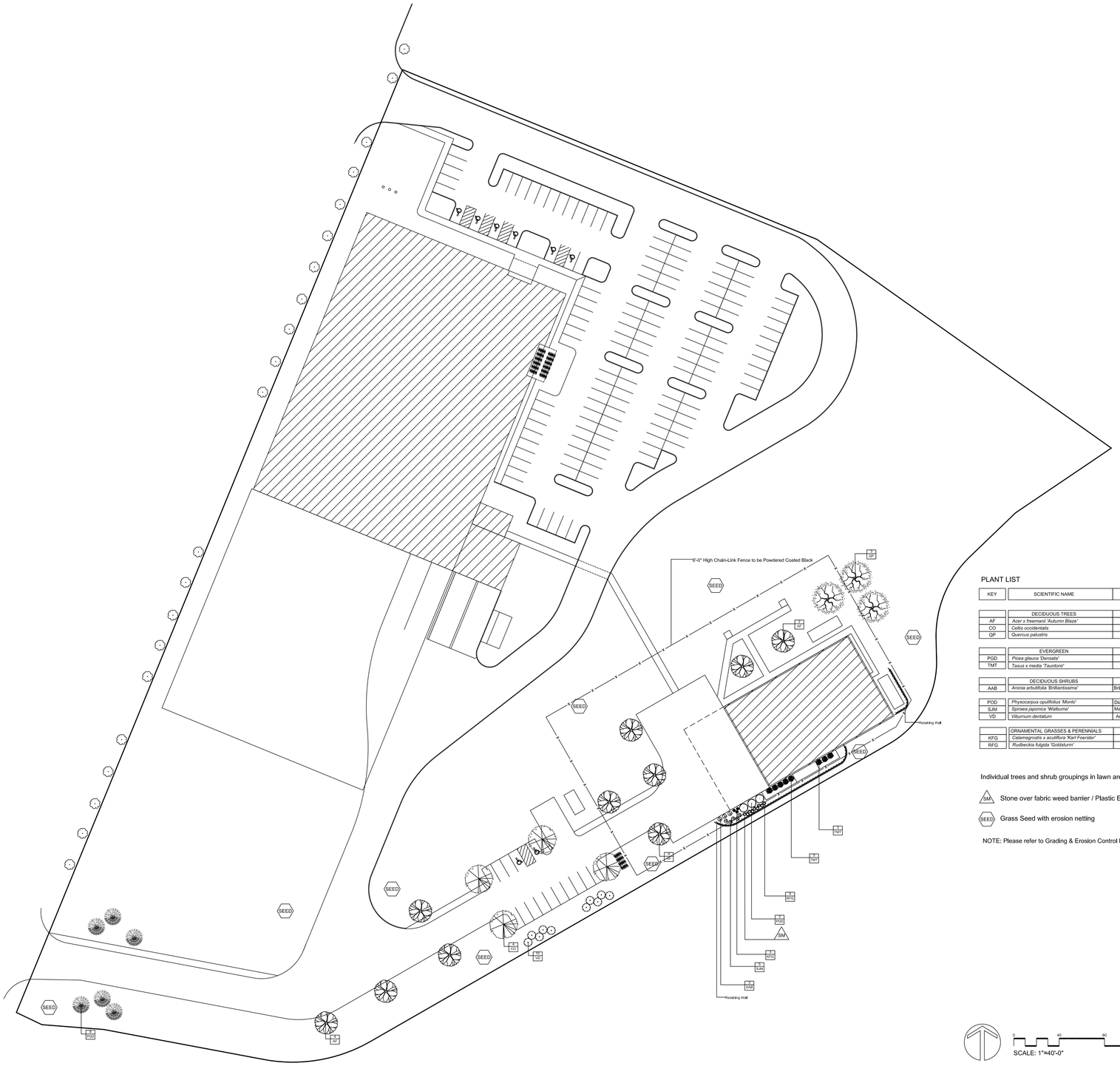
Detail Sheet

C400



PLANT LIST

KEY	SCIENTIFIC NAME	COMMON NAME	QTY	PLANTING SIZE	ROOT CONDITION
	DECIDUOUS TREES				
AF	*Acer x freemanii 'Autumn Blaze'*	Autumn Blaze Maple	10	2"	B&B
CO	*Celtis occidentalis*	Common Hackberry	4	2"	B&B
QP	*Quercus palustris*	Pin Oak	3	2"	B&B
	EVERGREEN				
PGD	*Picea glauca 'Densata'*	Black Hills Spruce	6	5'	B&B
TMT	*Taxus x media 'Tauntonii'*	Taunton Yew	8	#5	Cont.
	DECIDUOUS SHRUBS				
AAB	*Aronia arbutifolia 'Brilliantissima'*	Brilliant Red Chokeberry	3	#5	Cont.
POD	*Physocarpus opulifolius 'Monlo'*	Diablo Ninebark	3	#5	Cont.
SJM	*Spiraea japonica 'Walbumra'*	Magic Carpet Spirea	5	#2	Cont.
VD	*Viburnum dentatum*	Arrowwood Viburnum	10	#5	Cont.
	ORNAMENTAL GRASSES & PERENNIALS				
KFG	*Calamagrostis x acutiflora 'Karl Foerster'*	Karl Foerster Feather Reed Grass	3	#1	Cont.
RFG	*Rudbeckia fulgida 'Goldsturm'*	Goldsturm Black Eyed Susan	9	#1	Cont.

Individual trees and shrub groupings in lawn areas to receive bark mulch rings.

SM Stone over fabric weed barrier / Plastic Edging

SEED Grass Seed with erosion netting

NOTE: Please refer to Grading & Erosion Control Plan for final contour information.

SCALE: 1"=40'-0"

OLSON TOON LANDSCAPING
3570 Pioneer Road
Verona, WI 53593
PH: (608) 827-9401
FAX: (608) 827-9402
WEB: www.olsontoon.com

PHOENIX
FITCHBURG, WISCONSIN

LANDSCAPE PLAN
SHEET L-100

Date: 7.18.18
Scale: 1" = 40'-0"
Designer:
Designed By RC

Seal:
To protect against legal liability, the plans presented herein are "schematic," and should not be outsourced as "biddable" or "construction documents" unless approved by the Landscape Designer. This is not an original document unless stamped in red, as ORIGINAL.

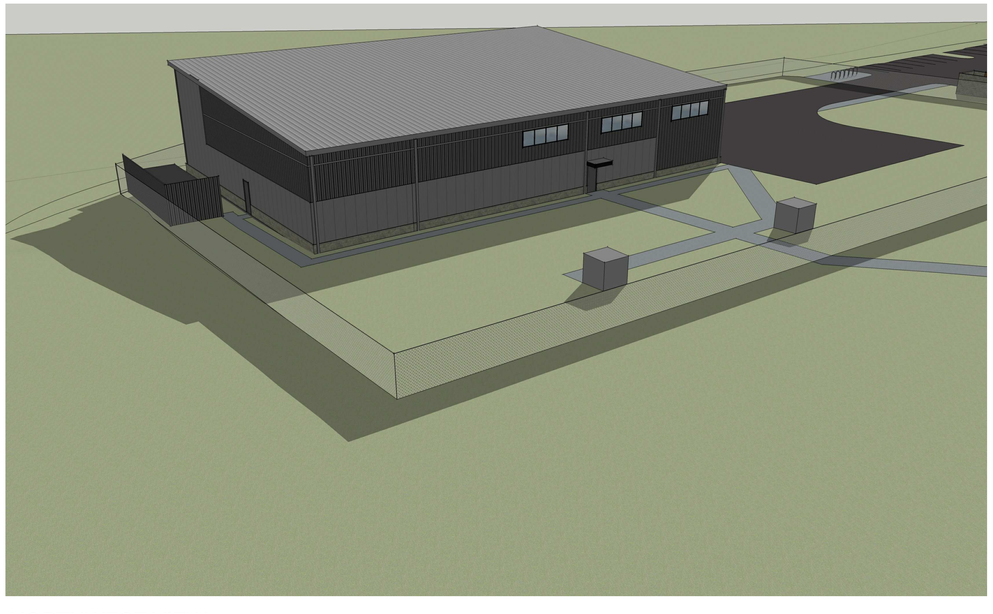
WISCONSIN
RICHARD J. CARLSON
LA-16
BLACK EARTH, WI
LANDSCAPE ARCHITECT

Revisions:

Reference Name:
Client's Last Name

SOUTHEAST VIEW

SOUTHWEST VIEW



NORTHWEST VIEW

NORTHEAST VIEW

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Exterior Images

A003

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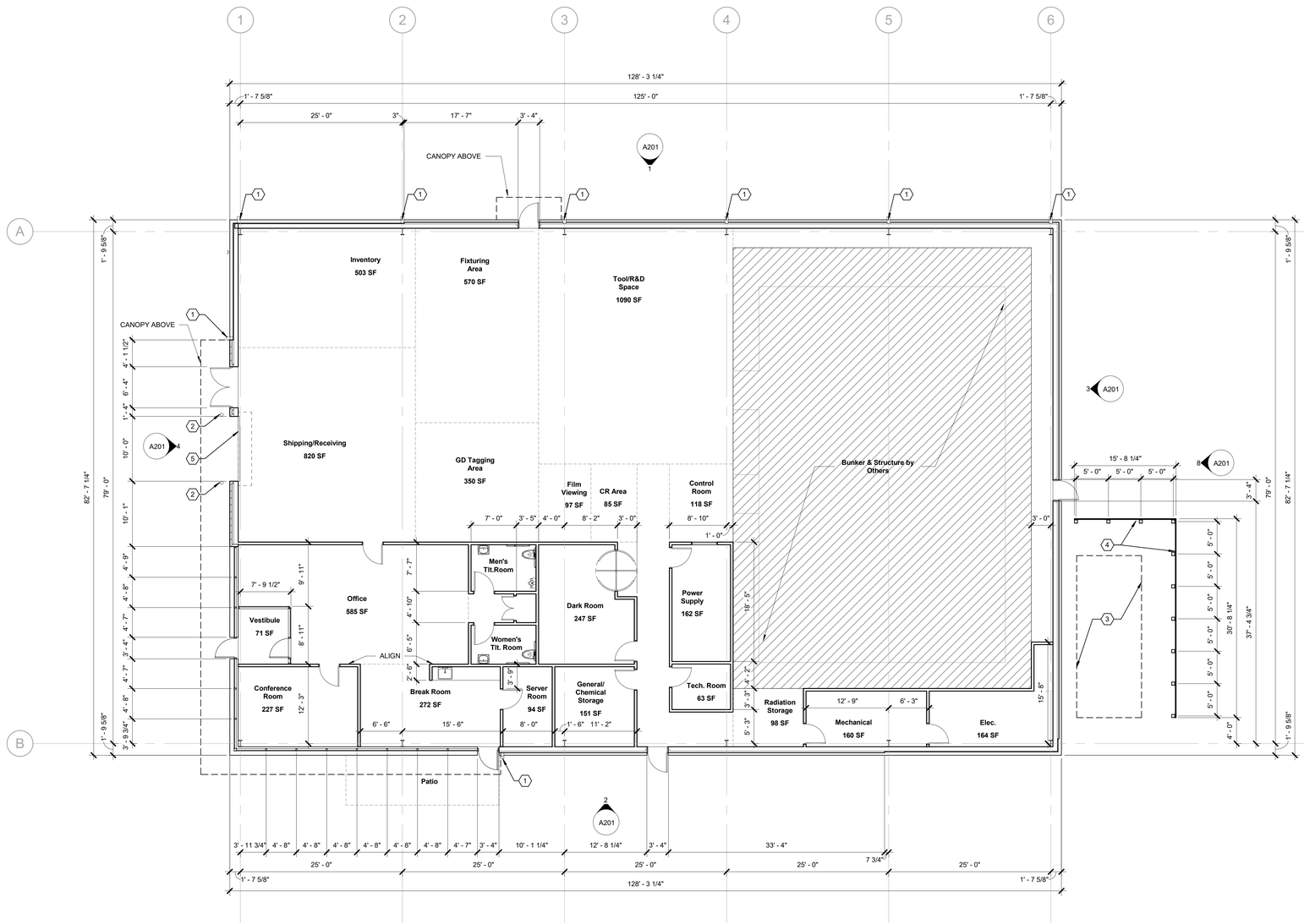

1 A101 FIRST FLOOR
1/8" = 1'-0"

2 A101 TRASH ENCLOSURE PLAN
1/8" = 1'-0"

7/23/2018 1:49:21 PM

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GENERAL NOTES:

1. CONSTRUCTION TYPE TO BE IIB.
2. FOUNDATION TYPE TO BE SLAB-ON-GRADE.
3. FIRE SPRINKLER AND FIRE ALARM TO BE COMPLIANT WITH NFPA 13, 2015 ADDITION.

KEYNOTES:

1. DOWNSPOUTS PROVIDED BY METAL BUILDING MANUFACTURER.
2. 6" DIAM. , 48" HIGH BOLLARD
3. MECHANICAL EQUIPMENT AND CONCRETE PAD
4. ARCHITECTURAL "V" RIB METAL PANEL SCREEN WALL (SLATE GRAY) WITH GALVANIZED STEEL SUPPORTS
5. 10'-0" WIDE x 9'-0" HIGH INSULATED METAL OVERHEAD DOOR

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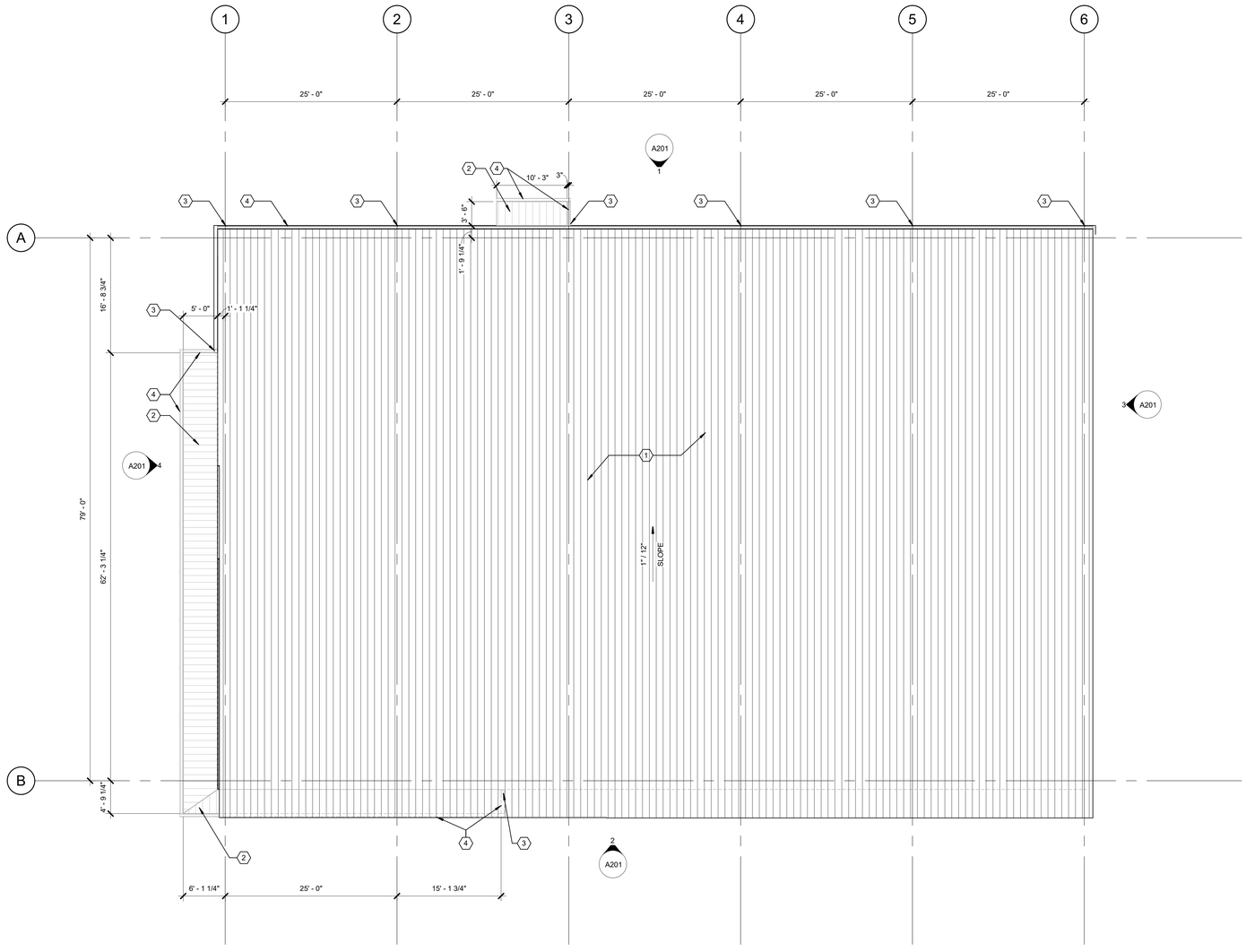
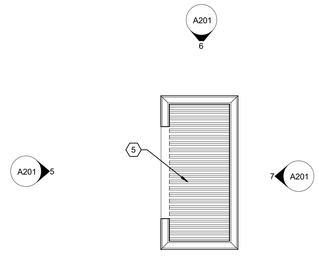
First Floor Plan

A101



1 A102 ROOF PLAN
1/8" = 1'-0"



2 A102 TRASH ENCLOSURE ROOF PLAN
1/8" = 1'-0"

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KEYNOTES:

1. STANDING SEAM INSULATED ROOF PANEL BY METAL BUILDING MANUFACTURER
2. CANOPY BY METAL BUILDING MANUFACTURER
3. DOWNSPOUT
4. GUTTER
5. TRASH ENCLOSURE ROOF WITH 4"X4"X3/8" GALVANIZED STEEL ANGLES AT 1'-0" O.C.

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Roof Plan

A102

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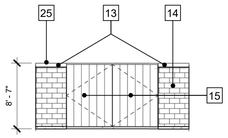
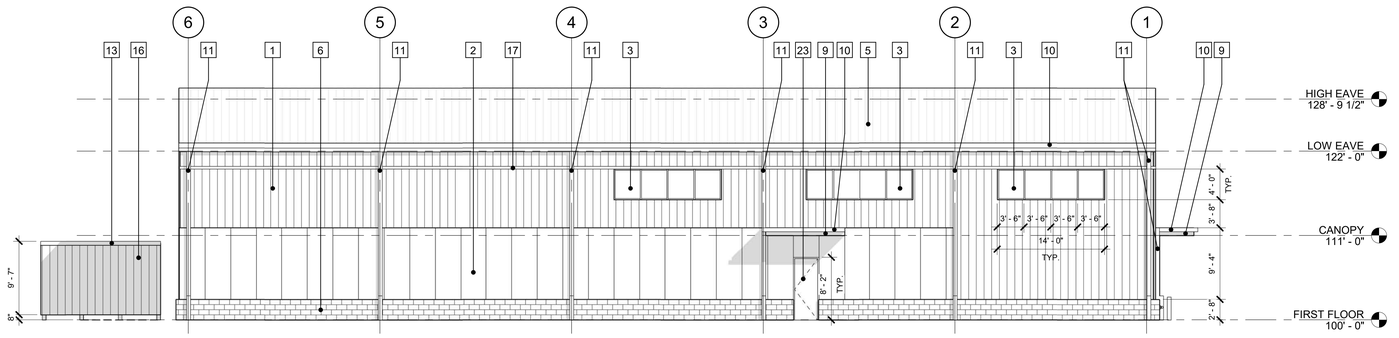
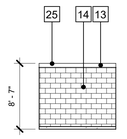


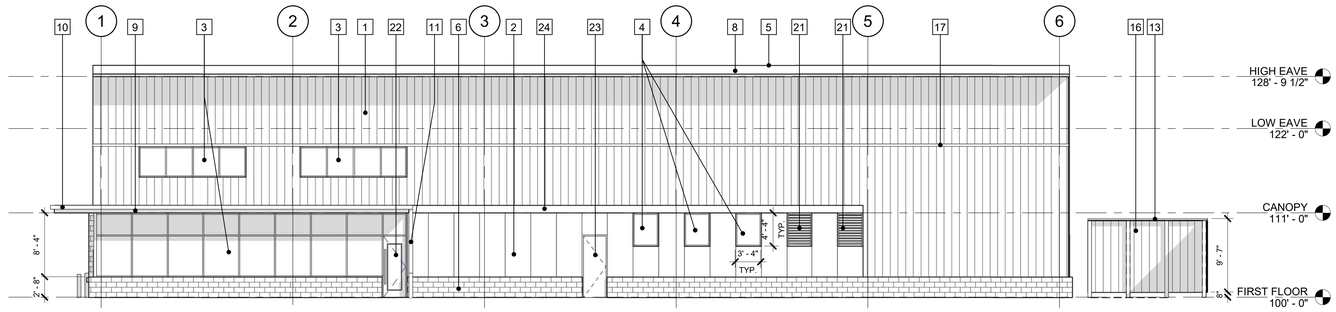
5 A201 TRASH ENCLOSURE WEST ELEVATION
1/8" = 1'-0"



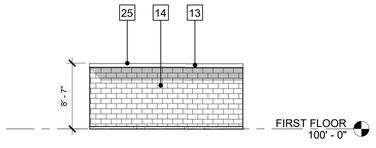
1 A201 NORTH ELEVATION
1/8" = 1'-0"



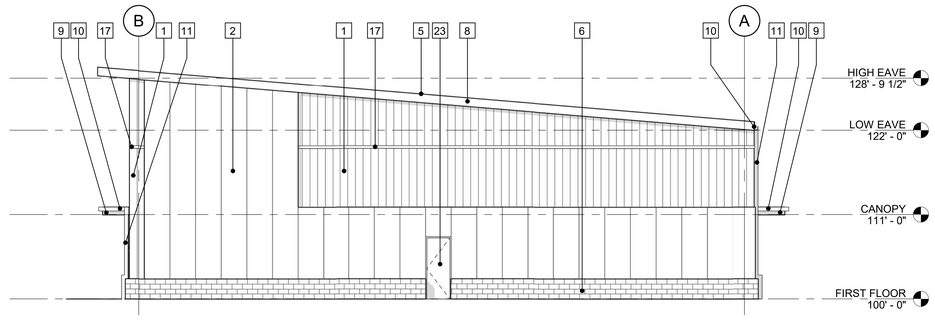
6 A201 TRASH ENCLOSURE NORTH ELEVATION
1/8" = 1'-0"



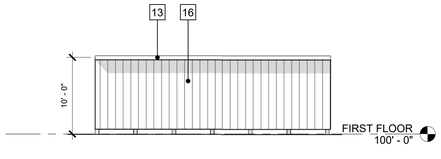
2 A201 SOUTH ELEVATION
1/8" = 1'-0"



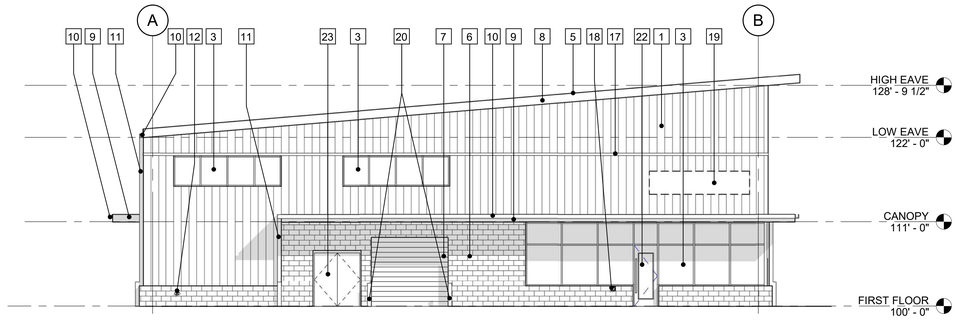
7 A201 TRASH ENCLOSURE EAST ELEVATION
1/8" = 1'-0"



3 A201 EAST ELEVATION
1/8" = 1'-0"



8 A201 SCREEN WALL ELEVATION
1/8" = 1'-0"



4 A201 WEST ELEVATION
1/8" = 1'-0"

INSULATING GLASS TYPES (IGU)

ALL IGU TYPES ARE TYPE "A" UNLESS NOTED OTHERWISE

A IGU - A: CLEAR VISION GLASS

B IGU - B: CLEAR VISION GLASS, FULLY TEMPERED

KEYNOTES:

1 ARCHITECTURAL "V" RIB METAL PANEL (SLATE GRAY) PROVIDED BY METAL BUILDING MANUFACTURER
2 INSULATED PANEL (PEARL GRAY) PROVIDED BY METAL BUILDING MANUFACTURER
3 ALUMINUM STOREFRONT SYSTEM (ANODIZED BLACK)
4 ALUMINUM WINDOW (ANODIZED BLACK)
5 STANDING SEAM INSULATED ROOF PANEL PROVIDED BY METAL BUILDING MANUFACTURER
6 SPLIT FACE CMU (GRAY)
7 INSULATED METAL OVERHEAD DOOR (GRAY)
8 METAL FASCIA PANEL PROVIDED BY METAL BUILDING MANUFACTURER
9 CANOPY BY METAL BUILDING MANUFACTURER
10 GUTTER PROVIDED BY METAL BUILDING MANUFACTURER
11 DOWNSPOUTS (COLOR TO MATCH SLATE GRAY) PROVIDED BY METAL BUILDING MANUFACTURER
12 FIRE DEPARTMENT CONNECTION
13 METAL COPING TO MATCH ADJACENT MATERIAL
14 CMU TRASH ENCLOSURE, MATCH BUILDING COURSING AND COLOR
15 COMPOSITE DECKING TRASH ENCLOSURE GATE
16 METAL PANEL SCREEN WALL (SLATE GRAY) WITH GALVANIZED STEEL SUPPORTS
17 HORIZONTAL METAL PANEL TRIM (PEARL GRAY) PROVIDED BY METAL BUILDING MANUFACTURER
18 KNOX BOX
19 BUILDING SIGNAGE (N.I.C.), PART OF FUTURE SUBMITTAL
20 6" DIAM. BOLLARD
21 MECHANICAL LOUVERS
22 ALUMINUM STOREFRONT DOOR AND FRAME (ANODIZED BLACK)
23 HOLLOW METAL DOOR AND FRAME
24 METAL PANEL TRIM PROVIDED BY METAL BUILDING MANUFACTURER (BLACK)
25 TRASH ENCLOSURE ROOF WITH 4"X4"X3/8" GALVANIZED STEEL ANGLES AT 1'-0" O.C.

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Phoenix, LLC

Lacy Road
Fitchburg, WI 53711

2017.40.00

Date	Issuance/Revisions	Symbol
07/24/2018	City of Fitchburg Submittal	

Building Elevations

A201

7/24/2018 10:38:31 AM

Calculation Summary

Label	Max	Min	Avg	Units
LOT_Planar	41.1	0.0	1.74	Fc

FIXTURE SCHEDULE

SYMBOL	TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION	NOTES
OA3Q	OA-3Q	COOPER	5MX3 GLEON AF 03 LED E-1 5MQ BK 7050	POLE LIGHT, 20' POLE	
OA-T3R	OA-T3R	COOPER	T3R GLEON AF 03 LED E-1 T3R BK 7050	POLE LIGHT, 20' POLE	
OA-2	OA-2	COOPER	2 GLEOW AF 03 LED E-1 T4FT BK 7050	POLE LIGHT, 2 HEAD, 20' POLE	
OA-T4W	OA-T4W	COOPER	GLEON AF 03 LED E-1 TW4W BK 7050	POLE LIGHT, 20' POLE	
OB	OB	HYDREL	3120 HAZ BOSB 50W MVOLT SYM	BOLLARD	
OC	OC	COOPER	KTOR3B BK 26W	WALL PACK, SMALL	
OD	OD	COOPER	GWC AF 02 LED E-1 T4FT BK 7050	WALL PACK, LARGE	
OF	OF	COOPER	LDB6 20 D010 EM14 ERB6 1020 6000	RECESSED CAN	

SCALE: 1/32"=1'

7/18/2018 8:12:10 AM

Potter Lawson
Success by Design

KRUPP
GENERAL CONTRACTORS

PHOENIX

Notes:

SPECIALIZED ELECTRIC
1041 Thousand Oaks Trail
Verona, WI, 53593
608-845-5464

REV-- DATE: 7-23-2018

PRELIMINARY
NOT FOR CONSTRUCTION

Imaging Facility
Phoenix, LLC

Lacy Road
Fitchburg, WI 53711

2017.40.00

Date	Issuance/Revisions	Symbol
07/24/2018	City of Fitchburg Submittal	

SITE LIGHT CALC.

E1.0

AMERICAN BUILDINGS
A NUCOR COMPANY

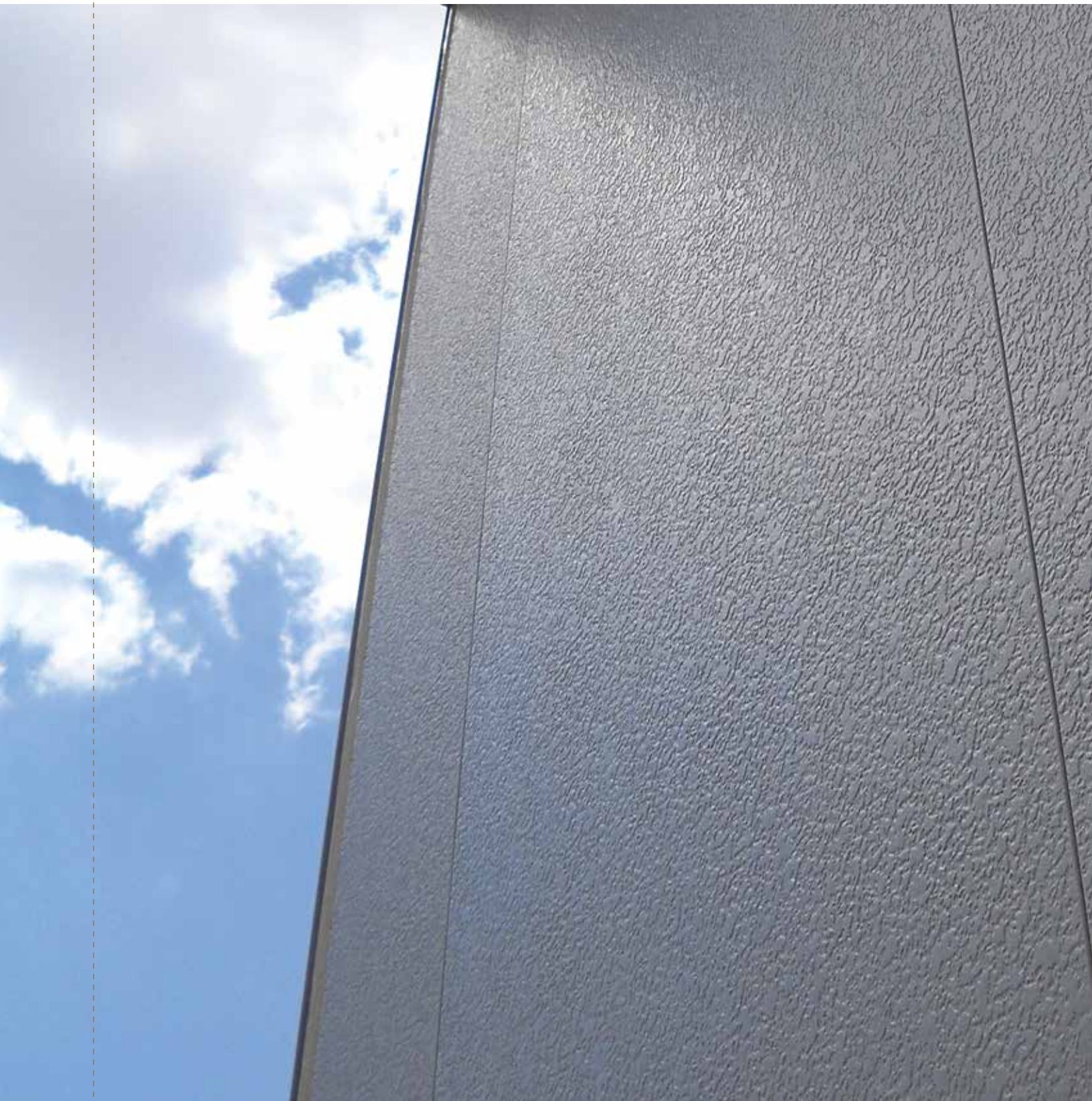
INNOVATION.
TECHNOLOGY.
SOLUTIONS.

INSULATED PANELS

SEE THE DIFFERENCE in appearance, value, performance and installation.

AMERICAN BUILDINGS

A NUCOR COMPANY



Leading the industry in technology, design flexibility, quality, and value for more than half a century, **American Buildings Company** is one of the largest and most experienced manufacturers of custom-engineered steel building systems in the world. In addition to offering a full line of custom products, our insulated panels rank as one of the most energy-efficient, well-made, cost-effective building solutions on the market today.

The Ultimate Combination of Brains & Beauty

Our insulated panels embody attractive styling and cutting-edge energy efficiency. Designed with the latest scientific breakthroughs, our panels are lightweight, durable and still maintain their ease of installation and visual appeal. Now is the best time to build with ABC insulated panels, because the benefits have never been greater.

Attractive & Lightweight

One of the most sophisticated building products on the market today, insulated panels offer a clean, consistent and high-quality appearance that immediately adds value to any building. Insulated panels enhance the visual appearance of your buildings, and their remarkable light weight reduces structural requirements and installation costs.

Sturdy & Durable

The panels incorporate a finished interior liner, factory-applied air and vapor shield, and insulated foam core finished exterior weathering surface into a single building unit. The composite action resulting from a chemical bond between the poured-in-place foam core and steel skins creates a lightweight, rigid unit with exceptional spanning capacity.

Easy To Install & Affordable

Lightweight and simplified fastening systems deliver quick installation and reduce labor costs. The panels themselves are very affordable, in part because of their lowered shipping costs attributed to their light weight. Panels can even be installed in adverse weather conditions.

The Ultimate in Energy Efficiency

You get 100% reliable thermal performance and insulation continuity – no cavities, no gaps, no crushed insulation and no cold bridges. No change of R-value occurs when purlin and girt center dimensions are varied. The insulated core is one of the most thermally effective insulants commonly available today. Insulation values can be easily increased by simply increasing the thickness of the panels.

PLANK PROFILE
Insulated Wall Panel

STRIATED PROFILE
Insulated Wall Panel

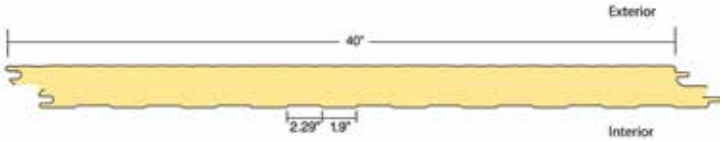
HEAVY EMBOSSED FLAT PROFILE
Insulated Wall Panel

STANDING SEAM
Insulated Roof Panel

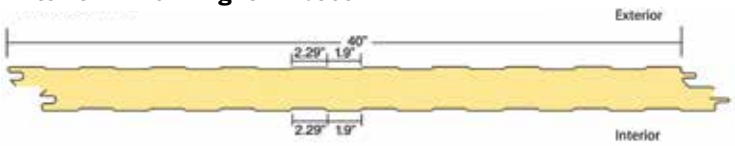
INSULATED WALL PANELS

Each project follows a different set of parameters and therefore may require a different set of wall panels. We offer a selection of panels to accommodate the needs of any project. Each of our three wall panel profiles detailed below is ideally suited for commercial and industrial applications. The wide panels install quickly and easily. Fasteners are concealed within the panel side joint, and the attractive profiles break up the flat expanse of metal on large projects such as manufacturing plants or warehouses.

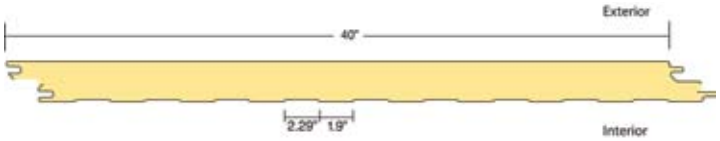
STRIATED PROFILE
Exterior Finish: Light Emboss



PLANK PROFILE
Exterior Finish: Light Emboss



HEAVY EMBOSSED FLAT PROFILE
Exterior Finish: Heavy Embossed Flat



INSULATED WALL PANEL FEATURES & BENEFITS

- The double tongue and groove is self-aligning and weathertight, and it allows for sealant application at either the interior or exterior side of the panel joinery, depending on the direction of the vapor drive.
- Hidden/concealed fasteners give the panel a clean, aesthetically appealing appearance.
- Removable film prevents damage to the exterior of the panel during shipping and installation.
- Panels arrive on-site in one piece and require a simple one-step installation, reducing construction time and costs.
- Standard exterior and interior steel surface is 26-gauge.

Wall Systems Specifications Striated, Plank & Heavy Embossed Flat Profiles

Panel Thickness	2"	2.5"	3"	4"
Insulating "R" Values*	R16	R20	R24	R32
*R-Value tested in accordance with ASTM C518/C1363 at 40ºF mean temperature, adjusted for a wind speed of 15 mph. For project-specific values, please contact your sales representative.				
Insulating "U" Factors	U0.061	U0.049	U0.041	U0.031
Panel Width	40"			
Minimum Length	8'0"			
Maximum Length	56'0"			
Application	Vertical			
Exterior Gauge (Standard)	26 ga.			
Interior Gauge	26 ga.			
Exterior Paint Coating	SmartKote® (PVDF)**			
**When using field-applied coatings, always order Polyester.				
Interior Paint Coating	Polyester**			
Interior Finish	Light Emboss – Plank Profile			

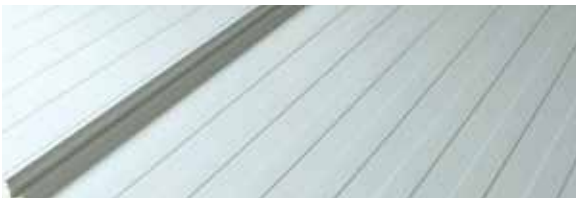
ALLOWABLE LOAD FOR ALL WALL PANELS (PSF) BASED ON L/180 DEFLECTION

PANEL THICKNESS	PANEL WEIGHT	SIMPLE SPAN (FT)								TWO OR MORE SPANS (FT)							
(IN)	(PSF)	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
2"	2.22	65	49	38	30	24	19	15	13	70	55	44	36	30	25	21	18
2.5"	2.34	85	65	51	41	33	27	22	18	90	72	58	48	40	34	29	24
3"	2.41	106	82	65	53	43	35	29	25	111	89	72	60	51	43	37	32
4"	2.62	147	116	94	77	64	53	45	38	153	123	101	85	72	62	54	47
5"	2.82	189	151	123	102	85	72	61	53	194	157	131	110	95	82	71	63
6"	2.98	232	186	153	127	107	91	79	68	236	192	160	136	117	102	89	79

Notes: 1) Spans shown are based on transverse load testing of the panels per ASTM E-72. Thermal effect due to temperature differentials has not been considered.
2) Loads shown do not include a check of the attachment to the supports. Attachment requirements will vary based on the project wind load requirements.
3) Loads shown are based on panels with 26-gauge interior and exterior facings.

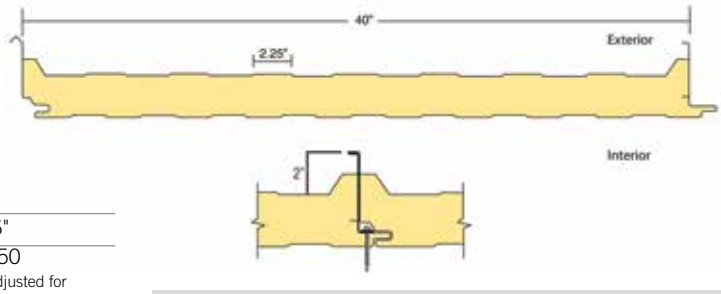
INSULATED ROOF PANELS

These mechanically seamed roof panels are an ideal solution where energy-efficient standing seam roof panels are required. The unique design of this panel allows for 26-gauge exterior and interior skins, saving money and weight on a building.



STANDING SEAM

Exterior Finish: Smooth - No Emboss



Roof Systems Specifications Standing Seam

Thickness	3.25"	4"	5"	6"
Insulating "R" Values*	R26	R32	R42	R50
*R-Value tested in accordance with ASTM C518/C1363 at 40ºF mean temperature, adjusted for a wind speed of 15 mph. For project-specific values, please contact your sales representative.				
Insulating "U" Factors	U0.038	U0.031	U0.024	U0.020
Panel Width	40"			
Minimum Length	8'0"			
Maximum Length	56'0"			
Exterior Gauge (Standard)	26 ga.			
Interior Gauge (Standard)	26 ga.			
Exterior Paint Coating	SmartKote® (PVDF)			
Interior Paint Coating	Polyester			
Interior Finish	Light Emboss – Plank Profile			
Minimum Roof Pitch 1/2:12				

INSULATED ROOF PANEL FEATURES & BENEFITS

- The panel's standing seam joint is self-aligning and allows for easy sealant application at the panel joinery.
- Panels arrive on-site in one piece and require a simple one-step installation, reducing construction time and costs.
- Standard exterior and interior steel surface is 26-gauge.
- The standing seam joint is 180-degree field seamed.

ALLOWABLE LOAD FOR STANDING SEAM ROOF PANELS (PSF) BASED ON L/240 DEFLECTION

PANEL THICKNESS	PANEL WEIGHT	PANEL SPANS (FT)					
(IN)	(PSF)	4.0	4.5	5.0	5.5	6.0	7.0
3.25"	2.48	90	79	70	62	56	46
4"	2.65	112	98	87	78	71	59
5"	2.86	142	125	111	100	90	75
6"	3.12	172	151	135	121	110	92

Notes: 1) Spans shown are based on transverse load testing of the panels per ASTM E-72. Thermal effect due to temperature differentials have not been considered.
2) Loads shown do not include a check of the attachment to the supports. Attachment requirements will vary based on the project wind load requirements.
3) Loads shown are based on panels with 26-gauge interior and exterior facings.

ADOBETEXTURE™

AdobeTexture™ factory finish coated wall panels offer a low-gloss, multi-textured profile and finish system that simulates a troweled stucco appearance. This is a premium coating that is applied to the Heavy Embossed Flat Profile panel. This unique process eliminates the need for additional or factory-applied stucco coatings.

This factory-applied finish combines an attractive appearance with durability, resisting the effects of impact, abrasion and weather. The interior panel face is finished in the Plank Profile and can act as a finished interior wall.

The AdobeTexture™ insulated wall panels deliver excellent energy efficiency. The factory-applied joint sealant provides a complete wall-system weather barrier.

Panels are offered in 2- to 4-inch thicknesses. Panel width is 40 inches and panels are available in lengths from 8 feet to 40 feet.

Installation of panels is simple and secure, requiring only a simple clip.

ADOBETEXTURE™ WALL PANELS

Exterior Profile: Heavy Embossed Flat
Exterior Finish: Multi-textured Surface

ADOBETEXTURE™ PANEL FEATURES & BENEFITS

- Eliminates need for field coatings
- Breakthrough technology bringing stucco look and texture to insulated wall panels
- Same easy installation as standard insulated wall panels
- Eliminates multi-step field assembly currently needed for stud and stucco systems
- Self-alignment double tongue and groove with concealed fastener joints
- Matching AdobeTexture™ trim for a clean, continuous look and feel
- 25-year factory warranty on finish system, including adhesion, chalking and fading

COLOR SELECTION

Our insulated wall panels benefit from our many years of experience in the metal buildings industry and the use of our cool coating technology.

To be considered cool, products must have a solar reflectance of at least 25%. Solar reflectance is the measure of a panel's ability to not absorb certain wavelengths of the sun. Another important factor is thermal emittance, the measure of a panel's ability to release heat that it has absorbed. Put these two factors together, and you get the solar reflectance index, the measure of a panel's ability to reflect solar heat. Using insulated wall and roof panels as part of your whole cool coated metal system can reduce energy consumption by more than 40% (as reported by the Oak Ridge National Laboratory).

EXTERIOR COLORS - SMARTKOTE® PVDF

These colors utilize cool coating technology

These "cool" exterior coatings feature vivid, fade-resistant color, incredible durability and environmentally friendly cool technology originally developed for stealth aircraft in the U.S. military. This is by far the best paint system available on the market for commercial buildings.

Regal White
IR .72 SRI 87

Warm White
IR .59 SRI 70

Surrey Beige
IR .51 SRI 58

Pearl Gray
IR .50 SRI 57

Royal Blue
IR .29 SRI 29

Evergreen
IR .30 SRI 31

IR = Initial Reflectance • SRI = Solar Reflectance Index

ADOBETEXTURE™ WALL PANELS

Regal White Adobe

Sandstone Adobe

Surrey Beige Adobe

Pearl Gray Adobe

INTERIOR COLOR - POLYESTER

Imperial White

NOTE: When using field-applied coatings, always order Imperial White Polyester for the exterior coating.

ABOUT AMERICAN BUILDINGS COMPANY

Without exception, our quality products give you the simplicity, durability and affordability you're looking for. But even more important is the fact that American Buildings Company gives you the value-added benefits you need to ensure that your project is more than just a building; it's a success.

We have strategically located manufacturing facilities throughout North America. This translates into faster delivery and, similarly, fast access to our sales and customer service experts who can help with every phase of project development and construction and help ensure your job is hassle-free and successful.

We offer a proprietary design, estimating, ordering and graphics system that reduces planning and design time and saves you money.

American Buildings Company is committed to using the best materials in the most resourceful way to maximize efficiency and save you money. This commitment includes environmentally friendly products such as our insulated panels with SmartKote® coatings. These durable structures come with SmartKote finishes that can be warranted for an optional 35 years against fading, chipping or peeling. SmartKote panels feature vivid fade-resistant color, incredible durability and environmentally friendly "cool" technology originally developed for stealth aircraft in the U.S. military. By offering eco-friendly, longer-lasting and recyclable products such as our insulated panels, we're giving you an easy, cost-effective way to leave a lighter footprint on the planet.

To help meet all of your building needs, American Buildings Company specializes in flexible metal systems that reduce construction time and maintenance. While there are numerous companies that can offer you building systems and materials, very few offer you the expertise, experience, flexibility and innovation that American does. And only American can deliver the value-added benefits you need to improve efficiency, save time and money and guarantee quality.

AMERICAN BUILDINGS
A NUCOR COMPANY

INNOVATION.
TECHNOLOGY.
SOLUTIONS.

American Buildings Company
Marketing Information Line
888.307.4338
www.americanbuildings.com

ABC – Atlantic Division
501 Golden Eagle Drive
La Crosse, VA 23950
Tel: 706.562.8020
Fax: 706.562.8017

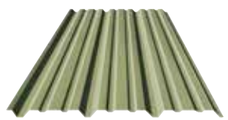
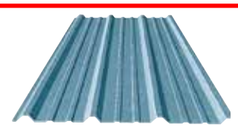
ABC – South Division
1150 State Docks Road
Eufaula, AL 36027
Tel: 334.687.2032
Fax: 334.688.2200

ABC – Midwest Division
2101 East Main Street
El Paso, IL 61738
Tel: 309.527.1500
Fax: 309.527.1522

ABC - West Division
2260 Tenaya Drive
Modesto, CA 95354
Tel: 209.236.0580
Fax: 209.236.0588

Form #00352-0916

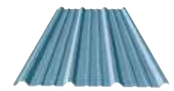
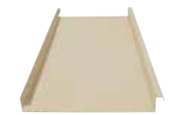
AMERICAN BUILDINGS COMPANY WALL PANELS

SHADOW	These 16" net width embossed panels have deep fluted profiles that accent contrasting shadow patterns. Panels are 3" deep. They are offered in 24-gauge steel and are fastened to the framework from the inside, leaving no exposed fasteners.	
ARCHITECTURAL III	These wall panels provide 36" width coverage with a decorative shadow line and semi-concealed fasteners. Rib height is 1-1/4" on 12" centers; and this panel is available in 26-gauge steel as standard. 22- and 24- gauge can be special ordered.	
ARCHITECTURAL "V" RIB	These wall panels provide 36" of coverage and reveal a sculptured appearance. With semi-concealed fasteners, the panels have a 1-5/16" high rib and are made of 26-gauge steel.	
LONG SPAN III	These wall panels have 1-1/4" ribs on 12" centers for an even-shadowed appearance. They offer 36" width coverage and are reinforced between the ribs for added strength. Panel is available in 26-gauge steel as standard. 22- and 24-gauge can be special ordered.	

Safe Haven Farms - The Hatton Place, Madison Township, OH

Rona Home Center, Nanaimo, British Columbia

AMERICAN BUILDINGS COMPANY ROOF PANELS

LONG SPAN III	These roof panels have 1-1/4" ribs on 12" centers for an even-shadowed appearance. They offer 36" width coverage and are reinforced between the ribs for added strength. Panel is available in 26-gauge steel. 22- and 24-gauge can be special ordered.	
LOC SEAM & LOC SEAM 360	Loc Seam and Loc Seam 360 standing seam roof panels offer a flat profile for an attractive appearance on higher pitched roofs and are available with 12" or 16" of width coverage with 2" high ribs. Loc Seam 360 panels have full 360-degree rolled seams formed with an electrical seaming machine.	
STANDING SEAM II & STANDING SEAM 360	In American standing seam roof systems, the roof floats on a system of sliding clips that prevent damage from thermal expansion and contraction. For greater weathertightness, standing seam designs also eliminate 80% of the through fasteners found in other systems. American Standing Seam II and Standing Seam 360 panels provide 24" width coverage with 3" high ribs. Standing Seam 360 panels are joined by an electric seaming machine, developing a full 360-degree rolled seam to ensure weathertightness — a seam type preferred by many architects and specifiers.	 STANDING SEAM II  STANDING SEAM 360

Bainbridge High School, Bainbridge, GA

SMARTKOTE®

Cool Coatings (PVDF)

SmartKote is a two-coat system featuring fade-resistant color, incredible durability and environmentally friendly "cool" technology.

AMERICAN BUILDINGS
A NUCOR COMPANY

Regal White †	IR .72 SRI 88	Warm White †	IR .62 SRI 73
Surrey Beige †	IR .48 SRI 53	Slate Gray †	IR .36 SRI 37
Dark Bronze †	IR .31 SRI 32	Terra Cotta †	IR .35 SRI 35
Evergreen †	IR .31 SRI 31	Royal Blue †	IR .30 SRI 31

All standard SmartKote® colors have a 35-year finish warranty.

Colors shown closely approximate actual coating colors.
These colors utilize Cool Coating Technology.
The term "TBK" on the ABC Order Document refers to "To Be Selected" from standard ABC PVDF colors as shown on this chart.
Please note that SmartKote is a slight upcharge over SP COOL.

†ENERGY STAR® Qualified Color

ENERGY STAR

SMARTKOTE STANDARD COLOR AVAILABILITY

Panel Type	Standard Gauges	Regal White	Warm White	Surrey Beige	Slate Gray	Dark Bronze	Terra Cotta	Ever-Green	Royal Blue	Bare Aluminum Zinc Coated	Aluminum Zinc Coated + Acrylic
Long Span III Wall	26 Ga.	X	X	X	X	X	X	X	X		X
Long Span III Roof	26 Ga.	X	X	X	X	X	X	X	X	X	
Architectural III	26 Ga.	X	X	X	X	X	X	X	X		X
Architectural "V" Rib	26 Ga.	X	X	X	X	X	X	X	X		X
16" Loc Seam Roof	24 Ga.	X	X	X	X	X	X	X	X	X	
Shadow Panel Wall	24 Ga.	X	X	X		X		X	X		
Soffit Liner	24 Ga.	X	X	X	X	X	X	X	X		
Standing Seam II	24 Ga.	X				X		X		X	
Standing Seam 360	24 Ga.	X				X		X		X	

PRODUCT SPECIFICATIONS

Solar Reflectance, Thermal Emittance and Solar Reflectance Index (SRI)

Solar Reflectance

To be considered "cool," products must have a Solar Reflectance of at least .25. Solar Reflectance is the fraction of the total solar energy that is reflected away from a surface.

Thermal Emittance

Thermal Emittance is the measure of a panel's ability to release heat that it has absorbed.

Solar Reflectance Index (SRI)

Put Solar Reflectance and Thermal Emittance together and you get the Solar Reflective Index (SRI). SRI is calculated by using the values of solar reflectance, thermal emittance and a medium wind coefficient. The higher the SRI value, the lower its surface temperature and consequently, the heat gain into the building. Cool metal roofs coated with the SmartKote COOL-pigmented PVDF resin achieve an SRI of 31-88, depending on the color.

Conventional roof surfaces have low reflectance (0.05 to 0.25) and high thermal emittance (typically over .85). Roof panels with both high reflectance and high emittance can reduce the surface temperature by as much as 30-50% based on color and geographic location, which will result in a reduced heat gain to the building, therefore reducing the energy demand.

SMARTKOTE PANEL COLORS

SMARTKOTE COLOR	INITIAL SOLAR REFLECTANCE (IR)	INITIAL THERMAL EMITTANCE (IE)	SOLAR REFLECTIVE INDEX (SRI)
Regal White	.72	0.85	88
Warm White	.62	0.84	73
Surrey Beige	.48	0.83	53
Slate Gray	.36	0.83	37
Dark Bronze	.31	0.87	32
Terra Cotta	.35	0.84	35
Evergreen	.31	0.85	31
Royal Blue	.30	0.86	31
Bare Aluminum Zinc Coated	.77	0.08	72

SMARTKOTE PVDF TECHNICAL INFORMATION

TEST	TEST METHODS	PERFORMANCE
Dry Film Thickness	ASTM D 5796 Primer ASTM D 1005	0.3 mils minimum Topcoat 0.7 mils system (+/-.05) Backer 0.5 mils system (+/-.05)
Specular Gloss	ASTM D523	Low gloss, 5 - 12% @ 60
Dry Film Hardness	ASTM D3363	HB minimum
Film Adhesion - Dry, wet, boiling water	ASTM D3359	Excellent, no removal
Formability	ASTM D4145	2 T Bend - no removal
Abrasion Resistance - Falling Sand - Gardner Scratch - Taber Abrasion	ASTM D968 ASTM D2197 ASTM D4060	Exceeds 65 liters/mil 250 - 300 grams load C.S. 10 wheel/20 mg loss/100 cycles
Chemical & Detergent Resistance	ASTM D1308	Excellent, no attack
Salt Spray Resistance	ASTM B117	Passes 1,000 hours, Galvalume
Humidity Resistance	ASTM D2247	Passes 1,000 hours HDG/Galvalume
South Florida Weathering - Color Retention - Crack Resistance	D2244 D4214	<5dE change after 35 years >8 chalk rating

AMERICAN BUILDINGS
A NUCOR COMPANY

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Fax: 334.688.2185

ABC - Midwest Division
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Fax: 309.527.1522

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Form #00337-316

McGraw-Edison

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

Catalog #		Type
Project		OA
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting
STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

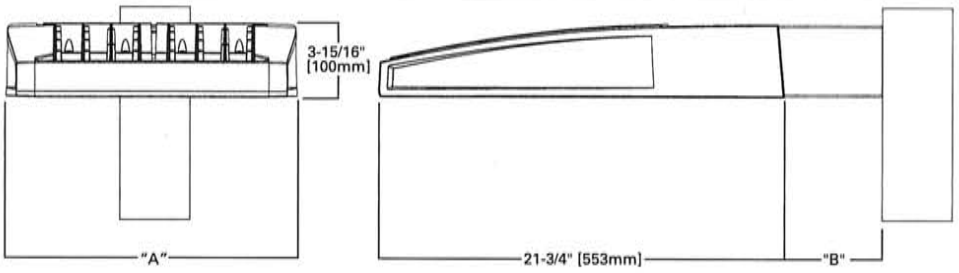
Warranty
Five-year warranty.

GLEON
GALLEON LED

1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE

DIMENSIONS



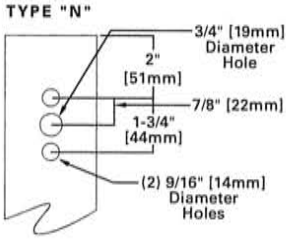
DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length [1]	Weight with Arm (lbs.)	EPA with Arm [2] (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. **2.** EPA calculated with optional arm length.

DRILLING PATTERN

TYPE "N"



CERTIFICATION DATA

UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA

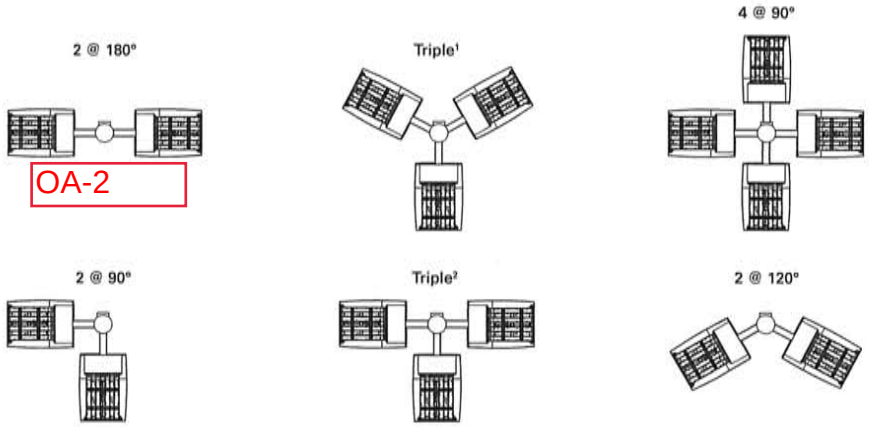
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

Powering Business Worldwide

*www.designlights.org

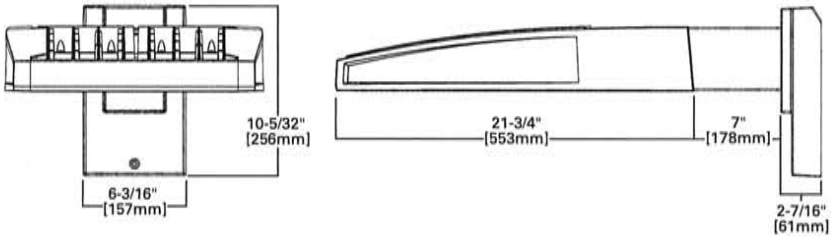
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)

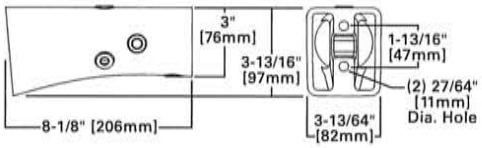


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. **2** Round poles are 3 @ 90°.

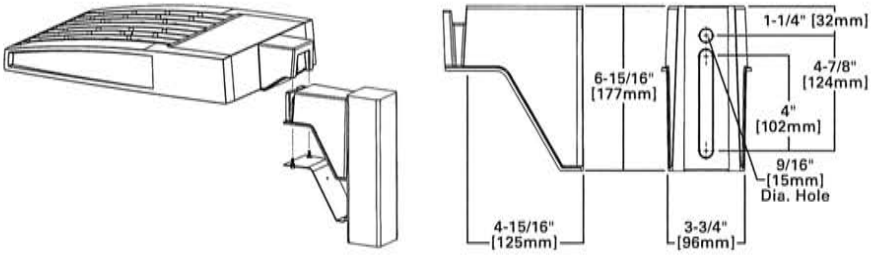
STANDARD WALL MOUNT

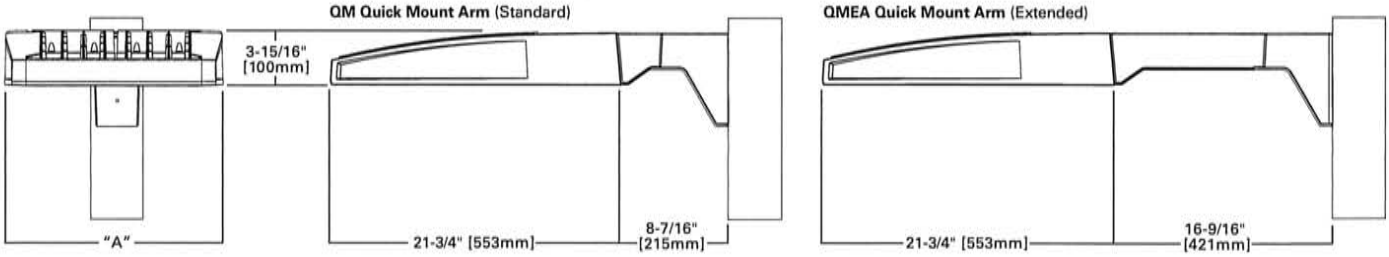


MAST ARM MOUNT



QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



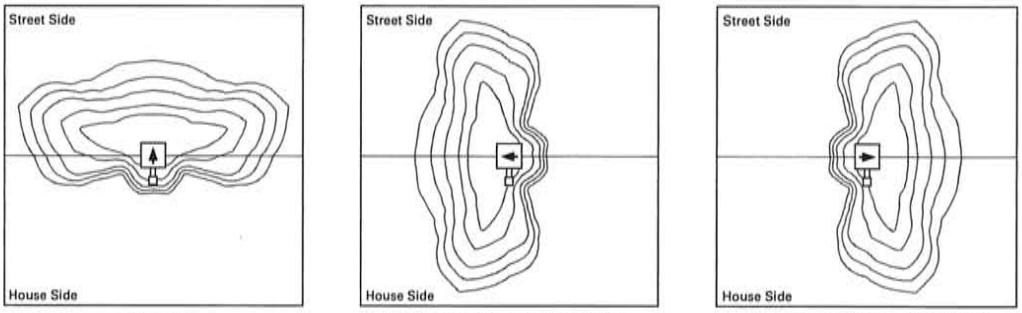


QUICK MOUNT ARM DATA

Number of Light Squares [1,2]	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 [3]	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

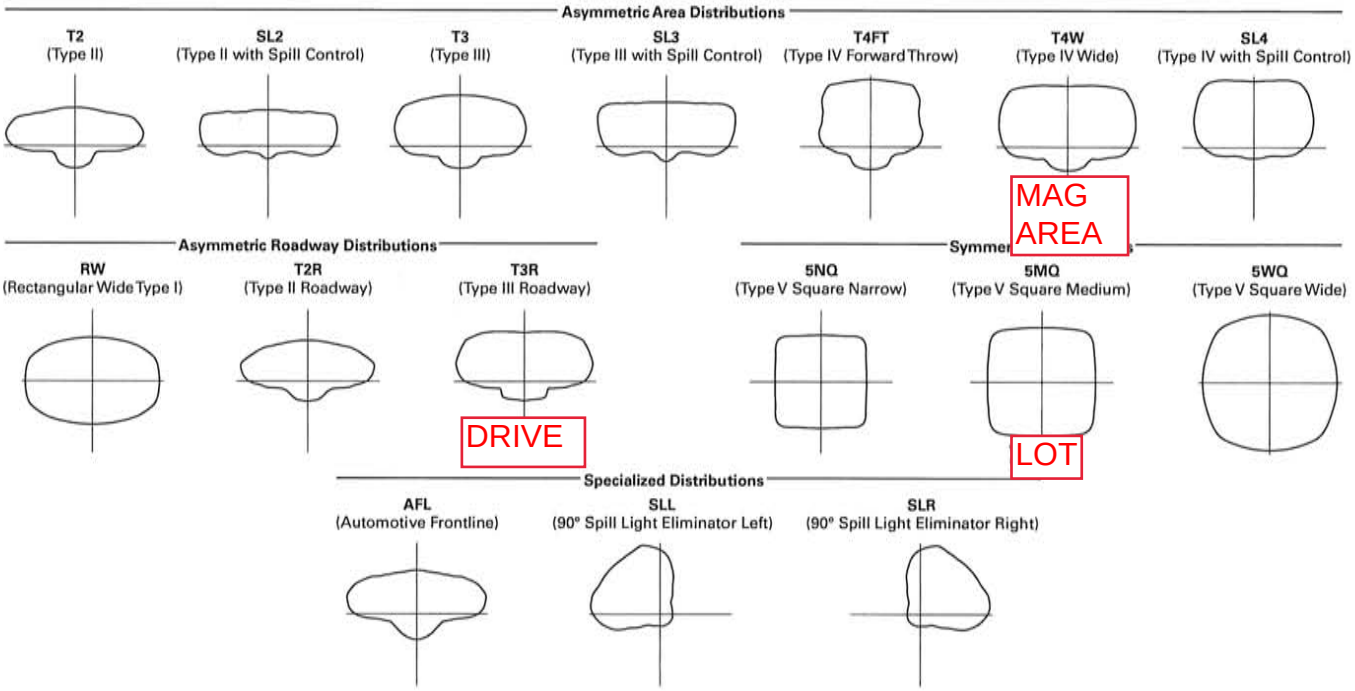
NOTES: 1 QM option available with 1-8 light square configurations. **2** QMEA option available with 1-6 light square configurations. **3** QMEA arm to be used when mounting two fixtures at 90° on a single pole.

OPTIC ORIENTATION



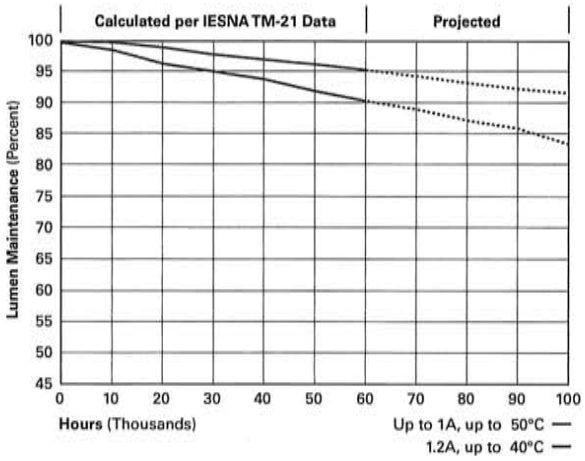
Standard | **Optics Rotated Left @ 90° [L90]** | **Optics Rotated Right @ 90° [R90]**

OPTICAL DISTRIBUTIONS



LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000



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

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

NOMINAL POWER LUMENS (1.2A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		67	129	191	258	320	382	448	511	575	640
Input Current @ 120V (A)		0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Current @ 208V (A)		0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Current @ 240V (A)		0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Current @ 277V (A)		0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Current @ 347V (A)		0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Current @ 480V (A)		0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
T2	4000K/5000K Lumens	6,709	13,111	19,562	25,848	32,026	38,325	45,324	51,355	57,286	63,424
	3000K Lumens	5,939	11,606	17,316	22,881	28,349	33,925	40,121	45,459	50,710	56,143
	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	B4-U0-G5
T2R	4000K/5000K Lumens	7,122	13,919	20,769	27,442	34,000	40,687	48,117	54,519	60,816	67,333
	3000K Lumens	5,939	11,606	17,316	22,881	28,349	33,925	40,121	45,459	50,710	56,143
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,838	13,363	19,939	26,346	32,642	39,062	46,196	52,343	58,388	64,646
	3000K Lumens	6,053	11,829	17,650	23,321	28,895	34,578	40,893	46,334	51,685	57,225
	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	B4-U0-G5
T3R	4000K/5000K Lumens	6,990	13,660	20,382	26,931	33,368	39,930	47,223	53,506	59,686	66,081
	3000K Lumens	6,188	12,092	18,042	23,839	29,537	35,346	41,802	47,364	52,834	58,495
	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	B4-U0-G5
T4FT	4000K/5000K Lumens	6,878	13,440	20,055	26,499	32,832	39,289	46,464	52,646	58,726	65,020
	3000K Lumens	6,088	11,897	17,753	23,457	29,063	34,779	41,130	46,602	51,984	57,556
	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	B4-U0-G5
T4W	4000K/5000K Lumens	6,789	13,267	19,795	26,156	32,408	38,781	45,864	51,967	57,968	64,180
	3000K Lumens	6,010	11,744	17,523	23,153	28,688	34,329	40,599	46,001	51,313	56,812
	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	B4-U0-G5
SL2	4000K/5000K Lumens	6,697	13,088	19,529	25,804	31,970	38,259	45,245	51,267	57,186	63,315
	3000K Lumens	5,928	11,585	17,287	22,842	28,300	33,867	40,051	45,382	50,621	56,046
	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	B4-U0-G5
SL3	4000K/5000K Lumens	6,837	13,361	19,936	26,342	32,639	39,057	46,189	52,336	58,380	64,636
	3000K Lumens	6,052	11,827	17,647	23,318	28,892	34,573	40,887	46,328	51,678	57,216
	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	B4-U0-G5
SL4	4000K/5000K Lumens	6,496	12,695	18,943	25,029	31,011	37,110	43,886	49,727	55,470	61,414
	3000K Lumens	5,750	11,238	16,768	22,156	27,451	32,850	38,848	44,018	49,102	54,364
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	7,052	13,781	20,564	27,171	33,664	40,285	47,641	53,981	60,215	66,669
	3000K Lumens	6,242	12,199	18,203	24,052	29,799	35,660	42,172	47,784	53,302	59,015
	BUG Rating	B3-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	B5-U0-G4
5MQ	4000K/5000K Lumens	7,182	14,034	20,942	27,671	34,284	41,027	48,518	54,975	61,323	67,896
	3000K Lumens	6,358	12,423	18,538	24,494	30,348	36,317	42,948	48,664	54,283	60,102
	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	B5-U0-G5
5WQ	4000K/5000K Lumens	7,201	14,073	20,998	27,744	34,375	41,136	48,648	55,121	61,487	68,077
	3000K Lumens	6,374	12,457	18,587	24,559	30,429	36,414	43,063	48,793	54,428	60,262
	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	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	6,009	11,741	17,519	23,148	28,681	34,321	40,589	45,990	51,301	56,798
	3000K Lumens	5,319	10,393	15,508	20,491	25,388	30,381	35,929	40,710	45,412	50,278
	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	B4-U0-G5
RW	4000K/5000K Lumens	6,989	13,657	20,378	26,925	33,360	39,921	47,211	53,494	59,672	66,066
	3000K Lumens	6,187	12,089	18,039	23,834	29,530	35,338	41,791	47,353	52,822	58,482
	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	B5-U0-G4
AFL	4000K/5000K Lumens	7,014	13,706	20,452	27,023	33,481	40,066	47,383	53,688	59,888	66,306
	3000K Lumens	6,209	12,133	18,104	23,921	29,637	35,466	41,943	47,525	53,013	58,694
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		59	113	166	225	279	333	391	445	501	558
Input Current @ 120V (A)		0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.6	5.07
Input Current @ 208V (A)		0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Current @ 240V (A)		0.26	0.48	0.71	0.96	1.19	1.41	1.67	1.89	2.12	2.39
Input Current @ 277V (A)		0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Current @ 347V (A)		0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Current @ 480V (A)		0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics											
T2	4000K/5000K Lumens	6,116	11,951	17,833	23,563	29,195	34,937	41,317	46,814	52,221	57,817
	3000K Lumens	5,414	10,579	15,786	20,858	25,843	30,926	36,574	41,440	46,226	51,180
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	6,493	12,688	18,932	25,015	30,994	37,090	43,863	49,699	55,439	61,380
	3000K Lumens	5,748	11,231	16,759	22,143	27,436	32,832	38,828	43,994	49,075	54,334
	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	B4-U0-G5
T3	4000K/5000K Lumens	6,234	12,181	18,176	24,017	29,756	35,609	42,111	47,715	53,225	58,930
	3000K Lumens	5,518	10,783	16,089	21,260	26,340	31,521	37,277	42,237	47,115	52,165
	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	B4-U0-G5
T3R	4000K/5000K Lumens	6,372	12,453	18,580	24,550	30,418	36,400	43,048	48,776	54,409	60,239
	3000K Lumens	5,640	11,023	16,447	21,732	26,926	32,221	38,106	43,177	48,163	53,324
	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	B3-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	6,270	12,252	18,282	24,156	29,929	35,815	42,356	47,992	53,534	59,271
	3000K Lumens	5,550	10,845	16,183	21,383	26,493	31,703	37,494	42,483	47,388	52,467
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,189	12,094	18,045	23,844	29,543	35,352	41,809	47,372	52,843	58,506
	3000K Lumens	5,479	10,706	15,973	21,107	26,151	31,294	37,009	41,934	46,777	51,790
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	6,105	11,931	17,803	23,522	29,144	34,877	41,245	46,734	52,130	57,717
	3000K Lumens	5,404	10,561	15,759	20,822	25,798	30,873	36,510	41,369	46,145	51,091
	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	B4-U0-G5
SL3	4000K/5000K Lumens	6,233	12,180	18,174	24,013	29,753	35,604	42,106	47,708	53,218	58,921
	3000K Lumens	5,517	10,782	16,088	21,256	26,337	31,517	37,272	42,231	47,109	52,157
	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	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	5,922	11,572	17,268	22,816	28,269	33,829	40,006	45,330	50,566	55,984
	3000K Lumens	5,242	10,244	15,286	20,197	25,024	29,945	35,413	40,126	44,761	49,557
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	6,429	12,563	18,746	24,768	30,688	36,723	43,429	49,208	54,891	60,775
	3000K Lumens	5,691	11,121	16,594	21,925	27,165	32,507	38,443	43,559	48,590	53,798
	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-G3	B5-U0-G4	B5-U0-G4
5MQ	4000K/5000K Lumens	6,547	12,794	19,090	25,224	31,253	37,400	44,228	50,114	55,902	61,893
	3000K Lumens	5,795	11,325	16,898	22,328	27,665	33,106	39,151	44,361	49,484	54,788
	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	B5-U0-G5
5WQ	4000K/5000K Lumens	6,564	12,828	19,141	25,291	31,336	37,499	44,347	50,248	56,051	62,058
	3000K Lumens	5,810	11,355	16,944	22,388	27,739	33,194	39,256	44,480	49,616	54,934
	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	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	5,478	10,703	15,970	21,102	26,145	31,286	37,001	41,924	46,765	51,777
	3000K Lumens	4,849	9,474	14,137	18,679	23,144	27,694	32,753	37,111	41,396	45,833
	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	B3-U0-G5
RW	4000K/5000K Lumens	6,371	12,449	18,576	24,544	30,411	36,392	43,037	48,764	54,396	60,225
	3000K Lumens	5,640	11,020	16,443	21,726	26,920	32,214	38,096	43,166	48,151	53,311
	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	B5-U0-G4
AFL	4000K/5000K Lumens	6,394	12,494	18,644	24,634	30,521	36,524	43,194	48,942	54,593	60,444
	3000K Lumens	5,660	11,060	16,504	21,806	27,017	32,331	38,235	43,323	48,326	53,505
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (800MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		44	85	124	171	210	249	295	334	374	419
Input Current @ 120V (A)		0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80
Input Current @ 208V (A)		0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12
Input Current @ 240V (A)		0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84
Input Current @ 277V (A)		0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67
Input Current @ 347V (A)		0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52
Input Current @ 480V (A)		0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96
Optics											
T2	4000K/5000K Lumens	4,941	9,656	14,408	19,038	23,588	28,227	33,382	37,823	42,191	46,713
	3000K Lumens	4,374	8,547	12,754	16,852	20,880	24,987	29,550	33,481	37,347	41,350
	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-G5	B4-U0-G5
T2R	4000K/5000K Lumens	5,246	10,251	15,296	20,211	25,041	29,966	35,439	40,154	44,791	49,592
	3000K Lumens	4,644	9,074	13,540	17,891	22,166	26,526	31,371	35,544	39,649	43,899
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3	4000K/5000K Lumens	5,037	9,842	14,685	19,404	24,041	28,770	34,024	38,551	43,003	47,612
	3000K Lumens	4,459	8,712	12,999	17,176	21,281	25,467	30,118	34,125	38,066	42,146
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	5,148	10,061	15,011	19,835	24,576	29,409	34,780	39,408	43,959	48,669
	3000K Lumens	4,557	8,906	13,288	17,558	21,755	26,033	30,787	34,884	38,913	43,082
	BUG Rating	B1-U0-G2	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
T4FT	4000K/5000K Lumens	5,066	9,899	14,770	19,516	24,181	28,936	34,221	38,774	43,252	47,888
	3000K Lumens	4,484	8,763	13,074	17,276	21,405	25,614	30,292	34,323	38,287	42,390
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	5,000	9,771	14,579	19,264	23,869	28,562	33,779	38,274	42,694	47,269
	3000K Lumens	4,426	8,649	12,905	17,052	21,129	25,283	29,901	33,880	37,793	41,843
	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	B4-U0-G5
SL2	4000K/5000K Lumens	4,933	9,639	14,383	19,005	23,547	28,178	33,324	37,758	42,118	46,632
	3000K Lumens	4,367	8,532	12,732	16,823	20,844	24,943	29,498	33,423	37,283	41,279
	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	B4-U0-G5
SL3	4000K/5000K Lumens	5,036	9,841	14,683	19,401	24,039	28,766	34,019	38,546	42,997	47,605
	3000K Lumens	4,458	8,711	12,997	17,174	21,279	25,464	30,114	34,121	38,061	42,140
	BUG Rating	B1-U0-G2	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
SL4	4000K/5000K Lumens	4,784	9,350	13,951	18,434	22,840	27,332	32,323	36,624	40,854	45,232
	3000K Lumens	4,235	8,277	12,349	16,318	20,218	24,194	28,612	32,420	36,164	40,039
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	5,194	10,150	15,145	20,011	24,794	29,670	35,088	39,757	44,349	49,102
	3000K Lumens	4,598	8,985	13,406	17,714	21,948	26,264	31,060	35,193	39,258	43,465
	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	B5-U0-G3
5MQ	4000K/5000K Lumens	5,290	10,337	15,424	20,380	25,250	30,217	35,734	40,489	45,165	50,006
	3000K Lumens	4,683	9,150	13,653	18,040	22,351	26,748	31,632	35,841	39,980	44,265
	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	B5-U0-G4
5WQ	4000K/5000K Lumens	5,304	10,365	15,465	20,434	25,318	30,297	35,830	40,597	45,286	50,139
	3000K Lumens	4,695	9,175	13,690	18,088	22,411	26,819	31,717	35,936	40,087	44,383
	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	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	4,426	8,648	12,903	17,049	21,124	25,278	29,894	33,872	37,784	41,832
	3000K Lumens	3,918	7,655	11,422	15,092	18,699	22,376	26,462	29,983	33,446	37,030
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	5,147	10,058	15,009	19,830	24,570	29,402	34,771	39,399	43,949	48,658
	3000K Lumens	4,556	8,903	13,286	17,554	21,749	26,027	30,779	34,876	38,904	43,072
	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	B5-U0-G4
AFL	4000K/5000K Lumens	5,166	10,095	15,063	19,903	24,659	29,509	34,898	39,542	44,108	48,835
	3000K Lumens	4,573	8,936	13,334	17,618	21,828	26,121	30,892	35,003	39,044	43,229
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (600MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		34	66	96	129	162	193	226	257	290	323
Input Current @ 120V (A)		0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89
Input Current @ 208V (A)		0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63
Input Current @ 240V (A)		0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43
Input Current @ 277V (A)		0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33
Input Current @ 347V (A)		0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99
Input Current @ 480V (A)		0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77
Optics											
T2	4000K/5000K Lumens	4,029	7,874	11,749	15,525	19,235	23,019	27,222	30,844	34,406	38,093
	3000K Lumens	3,566	6,970	10,400	13,743	17,027	20,376	24,097	27,303	30,456	33,720
	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	B3-U0-G4
T2R	4000K/5000K Lumens	4,278	8,360	12,474	16,482	20,421	24,437	28,900	32,745	36,527	40,441
	3000K Lumens	3,787	7,400	11,042	14,590	18,077	21,632	25,582	28,986	32,334	35,798
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	4000K/5000K Lumens	4,107	8,026	11,976	15,824	19,605	23,461	27,746	31,438	35,068	38,827
	3000K Lumens	3,636	7,105	10,601	14,007	17,354	20,768	24,561	27,829	31,042	34,370
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T3R	4000K/5000K Lumens	4,198	8,205	12,242	16,175	20,041	23,982	28,363	32,137	35,848	39,689
	3000K Lumens	3,716	7,263	10,837	14,318	17,740	21,229	25,107	28,448	31,733	35,133
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	4,131	8,072	12,045	15,915	19,719	23,597	27,907	31,620	35,272	39,052
	3000K Lumens	3,657	7,145	10,662	14,088	17,455	20,888	24,703	27,990	31,223	34,569
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	4,077	7,968	11,889	15,710	19,465	23,292	27,546	31,212	34,816	38,547
	3000K Lumens	3,609	7,053	10,524	13,906	17,230	20,618	24,384	27,629	30,819	34,122
	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	B3-U0-G5
SL2	4000K/5000K Lumens	4,022	7,861	11,729	15,498	19,202	22,979	27,175	30,791	34,347	38,028
	3000K Lumens	3,560	6,959	10,383	13,719	16,998	20,341	24,055	27,256	30,404	33,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL3	4000K/5000K Lumens	4,106	8,025	11,974	15,821	19,603	23,458	27,742	31,433	35,064	38,821
	3000K Lumens	3,635	7,104	10,599	14,005	17,353	20,765	24,557	27,824	31,039	34,364
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	3,902	7,624	11,377	15,033	18,626	22,289	26,359	29,867	33,316	36,886
	3000K Lumens	3,454	6,749	10,071	13,307	16,488	19,730	23,333	26,438	29,491	32,651
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	4,236	8,277	12,351	16,319	20,219	24,196	28,614	32,422	36,166	40,042
	3000K Lumens	3,750	7,327	10,933	14,446	17,898	21,418	25,329	28,700	32,014	35,445
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	4,314	8,429	12,578	16,619	20,591	24,641	29,141	33,019	36,832	40,779
	3000K Lumens	3,819	7,461	11,134	14,711	18,227	21,812	25,796	29,228	32,604	36,098
	BUG Rating	B3-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	B5-U0-G4
5WQ	4000K/5000K Lumens	4,325	8,452	12,611	16,664	20,646	24,707	29,219	33,106	36,930	40,888
	3000K Lumens	3,828	7,482	11,163	14,751	18,276	21,871	25,865	29,305	32,690	36,194
	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	B5-U0-G4
SLL/SLR	4000K/5000K Lumens	3,609	7,052	10,522	13,903	17,226	20,613	24,378	27,622	30,812	34,114
	3000K Lumens	3,195	6,242	9,314	12,307	15,248	18,247	21,579	24,451	27,275	30,198
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	4,197	8,202	12,239	16,171	20,036	23,977	28,356	32,129	35,839	39,680
	3000K Lumens	3,715	7,260	10,834	14,315	17,736	21,224	25,101	28,441	31,725	35,125
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	4000K/5000K Lumens	4,213	8,232	12,284	16,230	20,109	24,064	28,459	32,246	35,969	39,824
	3000K Lumens	3,729	7,287	10,874	14,367	17,800	21,301	25,192	28,544	31,840	35,252
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI.

CONTROL OPTIONS

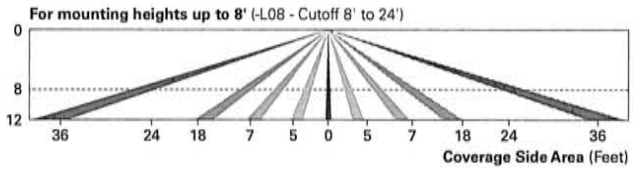
0-10V (DIM)
This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

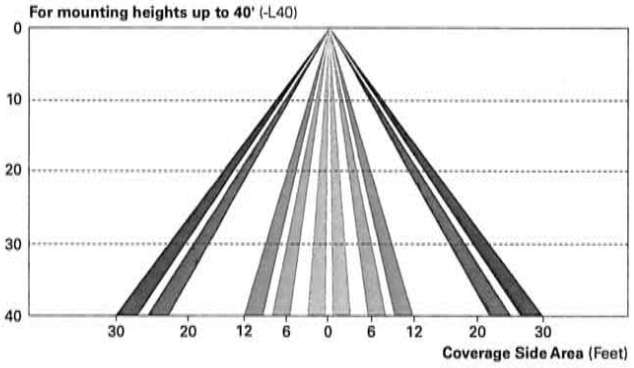
Photocontrol (P, R and PER7)
Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

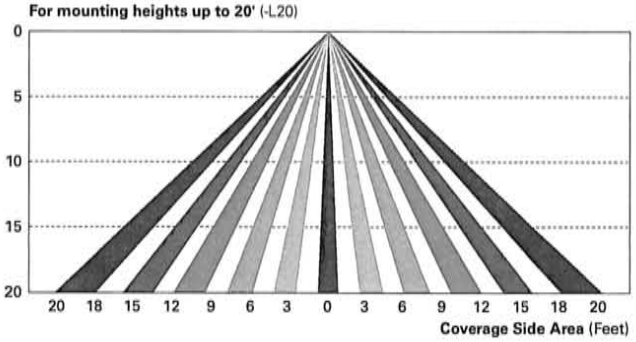
After Hours Dim (AHD)
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the 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.

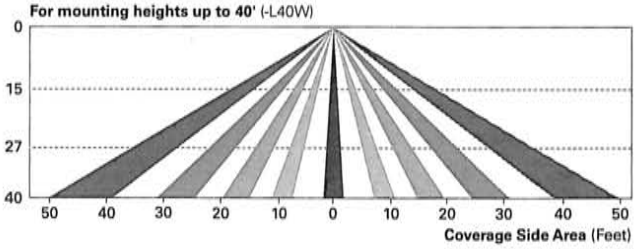
Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.

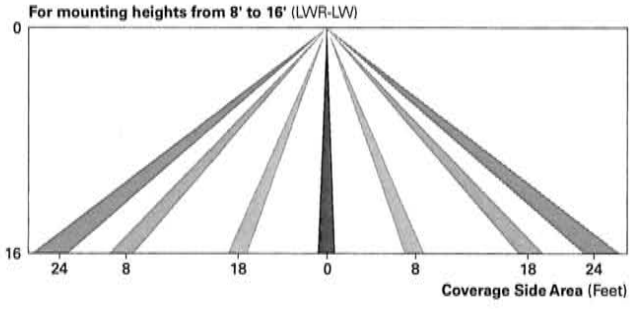


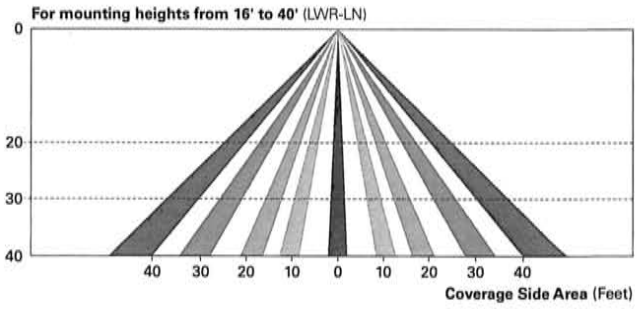






LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)
The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.





WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)
The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T3-GM-QM

Product Family [1, 2]	Light Engine	Number of Light Squares [3]	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	**AF**=1A Drive Current	**01**=1 **02**=2 **03**=3 **04**=4 **05**=5 [4] **06**=6 **07**=7 [5] **08**=8 [5] **09**=9 [6] **10**=10 [6]	**LED**=Solid State Light Emitting Diodes	**E1**=120-277V **347**=347V [7] **480**=480V [7, 8]	**T2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **5NQ**=Type V Narrow **5MQ**=Type V Square Medium **5WQ**=Type V Square Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **AFL**=Automotive Frontline	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White	**[Blank]**=Arm for Round or Square Pole **EA**=Extended Arm [9] **MA**=Mast Arm Adapter [10] **WM**=Wall Mount **QM**=Quick Mount Arm (Standard Length) [11] **QMEA**=Quick Mount Arm (Extended Length) [12]

Options (Add as Suffix)

7030=70 CRI 3000K [13]
8030=80 CRI 3000K [14]
7050=70 CRI 5000K [13]
7060=70 CRI 6000K [13]
600=Drive Current Factory Set to Nominal 600mA [15]
800=Drive Current Factory Set to Nominal 800mA [15]
1200=Drive Current Factory Set to Nominal 1200mA [15, 16]
F=Single Fuse (120, 277 or 347V. Must Specify Voltage)
FF=Double Fuse (208, 240 or 480V. Must Specify Voltage)
2L=Two Circuits [17, 18]
DIM=External 0-10V Dimming Leads [19, 20]
P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Volatage) [21]
PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle [21]
R=NEMA Twistlock Photocontrol Receptacle [21]
AHD145=After Hours Dim, 5 Hours [22]
AHD245=After Hours Dim, 6 Hours [22]
AHD255=After Hours Dim, 7 Hours [22]
AHD355=After Hours Dim, 8 Hours [22]
HA=50°C High Ambient [23]
MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [24, 25]
MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [24, 26]
MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [22, 25]
MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) [24, 28]
MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height [24, 25, 29]
MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height [24, 26, 29]
MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height [22, 27, 29]
MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) [24, 28, 29]
MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [24, 25]
MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [24, 26]
MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [24, 27]
MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) [24, 28]
LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [30]
LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [30]
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
MT=Factory Installed Mesh Top
TH=Tool-less Door Hardware
LCF=Light Square Trim Plate Painted to Match Housing [31]
HSS=Factory Installed House Side Shield [32]
CE=CE Marking [33]

Accessories (Order Separately)

OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V
OA/RA1027=NEMA Photocontrol - 480V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=120V Photocontrol
MA1252=10kV Surge Module Replacement
MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon
MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon
FSIR-100=Wireless Configuration Tool for Occupancy Sensor [24]
GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares
GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares
GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares
GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares
GLEON-QM=Quick Mount Arm Kit [10]
GLEON-QMEA=Quick Mount Extended Arm Kit [11]
LS/HSS=Field Installed House Side Shield [32, 34]
WOLC-7P-10A=WaveLinx Outdoor Control Module (7-pin) [35]

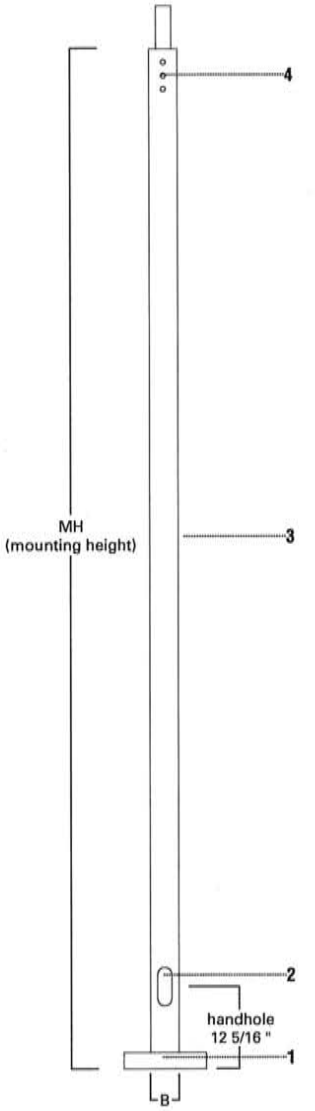
NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
2. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. Standard 4000K CCT and minimum 70 CRI.
4. Not compatible with MS/4-LXX or MS/1-LXX sensors.
5. Not compatible with extended quick mount arm (QMEA).
6. Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
7. Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
8. 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).
9. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
10. Factory installed.
11. Maximum 8 light squares.
12. Maximum 6 light squares.
13. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
14. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
15. 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
16. Not available with HA option.
17. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
18. Not available with LumaWatt Pro wireless sensors.
19. Cannot be used with other control options.
20. Low voltage control lead brought out 18" outside fixture.
21. Not available if any "MS" sensor is selected. Motion sensor has an integral photocell.
22. Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
23. 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents.
24. 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 Eaton for more information.
25. Approximately 22' detection diameter at 8' mounting height.
26. Approximately 40' detection diameter at 20' mounting height.
27. Approximately 60' detection diameter at 40' mounting height.
28. Approximately 100' detection diameter at 40' mounting height.
29. Replace X with number of Light Squares operating in low output mode.
30. LumaWatt Pro wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information.
31. Not available with house side shield (HSS).
32. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
33. CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.
34. One required for each Light Square.
35. Requires 7-pin NEMA twistlock photocontrol receptacle.

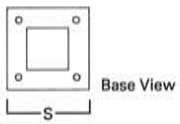
Powering Business Worldwide

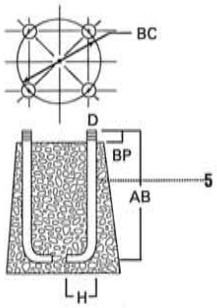
Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

SSS SQUARE STRAIGHT STEEL

10'—39' MOUNTING HEIGHT







SPECIFICATION FEATURES

1 ··· ASTM Grade steel base plate with ASTM A366 base cover.

2 ··· Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole.

3 ··· ASTM A500 grade "B" steel shaft. Shot blasted and painted with polyester powder coat.

4 ··· Drilled or Tenon (specify).

5 ··· Anchor bolt per ASTM A576 with (2) nuts, (2) flat washer, and (1) lock washer. Nuts, washers and threaded portion of bolt are hot dip galvanized. 3" hook for 3/4" bolt. 4" hook for 1" bolt.

FOUR BOLT ANCHORAGE [See ordering information]

BC=Bolt Circle
BP=Bolt Projection
AB=Bolt Dimensions
D=Bolt Diameter
H=Bolt Dimensions

FINISH COLORS [See ordering information]

F=Dark Bronze
G=Galvanized
V=Grey
W=White
Y=Black

WARNING: THE USE OF UNAUTHORIZED ACCESSORIES SUCH AS BANNERS, SIGNS OR PENNANTS FOR WHICH THE POLE WAS NOT DESIGNED FOR VOIDS THE COOPER LIGHTING WARRANTY AND MAY RESULT IN POLE FAILURE CAUSING SERIOUS INJURY OR PROPERTY DAMAGE. COOPER LIGHTING'S POLE WARRANTY IS ALSO VOIDED IF LUMINAIRE IS NOT INSTALLED AT TIME OF POLE INSTALLATION.

ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

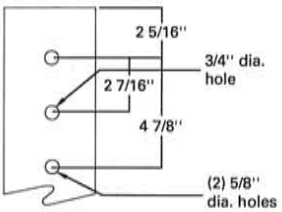
Square	Straight	Steel	Shaft [3] Size	Wall Thickness	Mounting Height (ft.)	Base Type	Finish	Fixture Mounting & Type	No. & Location of Arms	Arm Lengths	Accessories (Ground Lug)
S	S	S	5	A	20	S	F	M	1	X	G

Mtg. Height	Catalog [1,2] Number	Wall Thickness	Base Square (In.)	Bolt Circle Dia. (In.)	Bolt Proj. (In.)	Shaft Size (In.)	Anchor Bolt Dia. & Length (In.)	Net. Wt. (Lbs.)	EPA (Sq. Ft.) [4] At Pole Top				EPA (Sq. Ft.) [4] 2' Above Pole Top				Max. Fixture Load—Include Bracket (Lbs.)
MH			S	BC	BP	B	AB		70	80	90	100	70	80	90	100	
10	SSS4A10SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	96	39.8	29.9	23.2	18.4	33.0	24.8	19.3	15.3	150
15	SSS4A15SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	133	19.6	14.4	10.8	8.2	17.2	12.7	9.5	7.3	150
20	SSS4A20SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	152	12.9	9.1	6.5	4.6	11.7	8.2	5.9	4.2	200
25	SSS4A25SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	208	8.7	5.6	3.6	2.1	8.0	5.2	3.3	2.0	200
20	SSS5A20SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	202	21.9	15.7	11.6	8.5	19.9	14.3	10.5	7.7	200
25	SSS5A25SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	248	15.5	10.5	7.2	4.8	14.3	9.8	6.6	4.4	200
30	SSS5A30SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	293	8.2	4.6	2.1	--	7.7	4.3	2.0	--	300
35	SSS5M35SF	.188	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	480	11.8	7.1	3.8	1.5	11.1	6.6	3.6	1.4	300
25	SSS6A25SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	295	24.1	16.8	12.0	8.5	22.2	15.6	11.1	7.8	200
30	SSS6A30SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	347	14.0	8.7	5.0	2.5	13.1	8.2	4.7	2.3	300
30	SSS6M30SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	505	26.4	18.1	12.5	8.4	24.7	16.9	11.6	7.9	300
35	SSS6M35SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	584	19.7	12.7	7.9	4.4	18.6	12.0	7.5	4.2	300
35	SSS6X35SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	696	28.9	19.7	13.4	8.9	8.7	18.6	12.7	8.4	300
39	SSS6M39SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	647	15.4	9.1	4.8	1.8	14.6	8.7	4.6	1.7	300
39	SSS6X39SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	822	23.5	15.4	9.8	5.7	22.4	14.6	9.3	5.4	300

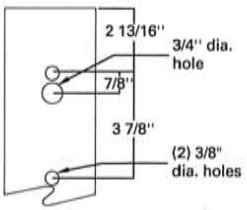
NOTES: 1 Catalog number includes pole with anchor bolts with double nuts (BEFORE INSTALLING ANCHOR BOLTS MAKE SURE PROPER ANCHOR BOLT TEMPLATE IS OBTAINED FROM COOPER LIGHTING).
2 Tenon size or machining for rectangular arms must be specified. Hand hole is located 180° from single arm.
3 Shaft size, base plate, anchor bolts and projections may vary slightly—all dimensions nominal.
4 EPA's based on shaft properties with wind normal to flat. EPA's calculated using base wind velocity as indicated plus 30% gust factor.

DRILLING PATTERN

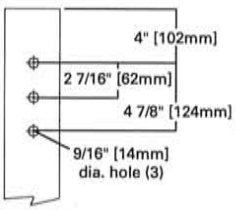
Type "M" [RCL, Landau, Galleria and Vision]



Type "E" [Concourse III]



Type "Z" [Credenza and Cirrus]



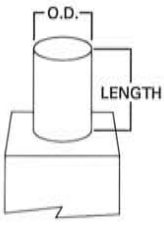
MACHINING FOR RECTANGULAR ARMS [Add as suffix]

Designation Letter & Number	Designation Letter & Number	Designation Letter & Number	Quantity & Location
M1	E1	Z1	Single
M2	E2	Z2	2 @ 180°
M3	E3	Z3	3 @ 120°
M4	E4	Z4	4 @ 90°
M5	E5	Z5	2 @ 90°
M6	E6	Z6	3 @ 90°
M7	E7	Z7	2 @ 120°

NOTES: Refer to Fixture Drilling Options on page 160.

MOUNTING OPTIONS [Add as suffix]

Fixed Tenon



Designation Number	O.D. (In.)	Length (In.)
1	2 3/8	3 1/2
2	2 3/8	4
3	3 1/2	5
9	3	4

ACCESSORIES

A=1/2" tapped hub [1]
B=3/4" tapped hub [1]
C=Convenience outlet [2]
G=Grounding lug (max. wire #8 AWG)
H=Additional hand hole and cover—12" below pole top—90° from hand hole.

NOTES: 1 Location is 3' above base–90° from hand hole.
2 Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only.

NOTE: Specifications and dimensions subject to change without notice.

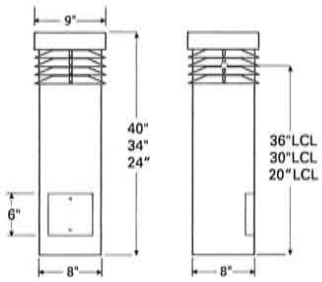
3120C LED
IMPACT RESISTANT ROUND BOLLARD FLAT TOP

LED *IP65*

CATALOG NUMBER	
NOTES	
TYPE	OB

Specifications

EPA:	-
Dia:	9" 229 mm
Dia[2]:	8" 204 mm
H:	42" 1016 mm
H[2]:	36" 915 mm
Weight	-



DESCRIPTION

The 3120C BOLLARD is a low level area lighting luminaire that combines visual appeal with superior performance and unequalled quality. It is designed to work in building perimeter areas and public spaces completing a wide variety of architectural styles.

Superior performance extends to the detailed finish of the louvers. Matte black finish of top surface provides IES cut off performance while gloss white on bottom extends reflective light to economize on spacing of fixtures. Custom finish available on top louver surface.

The 3120C BOLLARD offers a patented impact resistant mounting and leveling design ensuring life long performance. Four levelling pads within the base mounting plate are easily accessible through the access panel. The levelling pads provide full contact with the concrete pad, providing a high degree of stability. The base mounting plate is fully welded to the bollard post, providing complete structural support from all directions, giving the bollard superior vandal resistance.

Motion Sensing Bi-Level Switching (BLS option) is now possible through the use of a fixture-integrated microwave occupancy sensor. Mounted in the head of the fixture, within the sealed light engine compartment, the sensor is protected from moisture damage, as well as potential damage due to vandalism. The sensor provides up to 20' of motion coverage in the 360 deg area around the bollard (see diagram on the next page). When motion is detected bollard will illuminate at full output (72 watts). After approx 5 min, bollard will drop to 19 Watts (660 lumens).

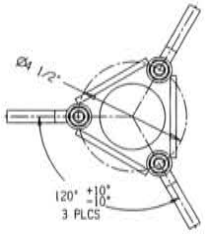
ORDERING INFORMATION

3120C H36 8COB 50K MVOLT SYM BL

Series	Height	Lamp type	Color		Voltage	Distribution	Options[4]	
3120C	H24	4COB[1]	20K	2000°K Color Temp	MVOLT (120-277 volt)	SYM Symetrical 360°	BLS[5,6]	Bi-Level Switching (Motion Activated)
	H36	8COB	30K	3000°K Color Temp	120[2]	FT[3] Forward Throw	GFCI	Receptacle; 120 volt only
	H42		40K	4000°K Color Temp	277[2]		ELN[5,7]	Emergency Operation (1387.5 lumen output; 90 minutes)
			50K	5000°K Color Temp	347		LDIM	0-10V Dimming (Dims to 10%)
			AMBLW	Limited wavelength Amber 591 Nanometers			IDIM[6]	In-line Trailing Edge ELV Dimming (Dims to 40%); 120 volt only

Finish			
BL	Black	STG	Steel Gray
BZ	Bronze	TVG	Terra Verde Green
DDB	Dark Bronze	WH	White
DNA	Natural Aluminum	CF	Custom
GN	Green	_Z[8]	Zinc Undercoat
GR	Gray	**Optional Louvers Painted[9]**	
SND	Sand	___/PL	Louvers painted to match fixture (top only)

MOUNTING



Notes:
1. 4COB for use with 20K and AMBLW only, 20K and AMBLW require 4COB.
2. Required with ELN or BLS.
3. FT not available with BLS.
4. BLS is not available with ELN, LDIM or IDIM.
5. ELN and BLS require 120 or 277 voltage, not MVOLT or 347.
6. Drive current will be 250.
7. ELN not available on 24" height.
8. Add zinc undercoat for harsh environments.
9. Louvers will be black unless otherwise specified (top only).

HYDREL
9144 Deering Avenue, Second Floor • Chatsworth, CA 91311
Phone: 866.533.9901 • www.hydrel.com

Rev. 11/17/17
3120C COB

Lumark

DESCRIPTION

The patented Lumark Crosstour™ LED Wall Pack Series of luminaries 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.

Catalog #		Type: OC
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

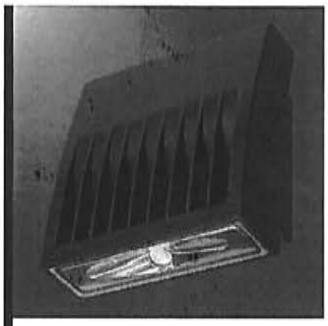
Construction
Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and medium design. The small housing is available in 12W, 18W and 26W. The medium housing is available in the 38W model. Patented secure 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 electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 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.

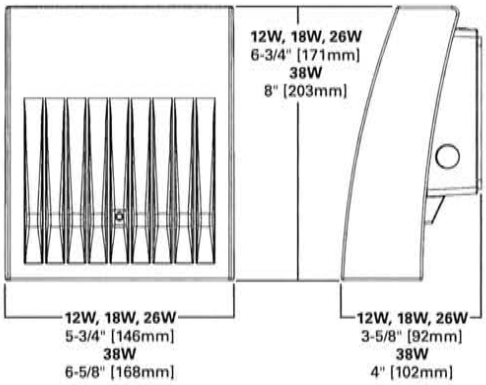
Warranty
Five-year warranty.



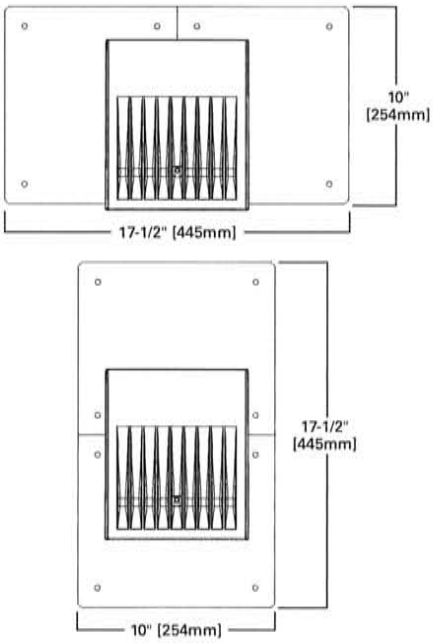
XTOR
CROSSTOUR LED

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

DIMENSIONS



ESCUTCHEON PLATES



CERTIFICATION DATA

UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
ADA Compliant
NOM Compliant Models
IP66 Ingressed 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, XT0R2B, XT0R3B=0.34
XTOR4B=0.45

SHIPPING DATA:

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

EATON
Powering Business Worldwide

*www.designlights.org

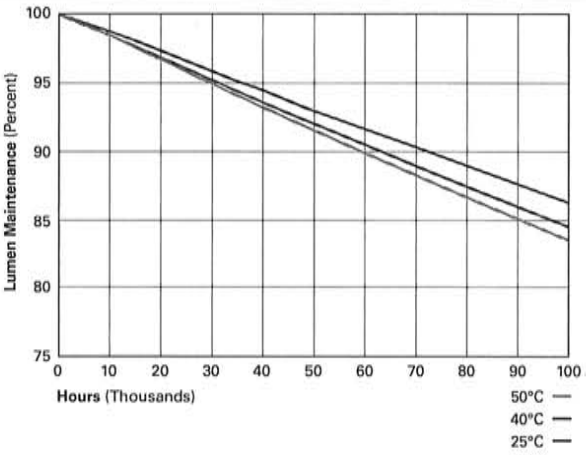
POWER AND LUMENS BY FIXTURE MODEL

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) [1]	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 [2]	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	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)
XTOR1B Model		
25°C	> 90%	255,000
40°C	> 89%	234,000
50°C	> 88%	215,000
XTOR2B Model		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
XTOR3B Model		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
XTOR4B Model		
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 [1]	**LED Kelvin Color**	**Housing Color**	**Options** (Add as Suffix)	**Accessories** (Order Separately)
XTOR1B=Small Door, 12W **XTOR2B**=Small Door, 18W **XTOR3B**=Small Door, 26W **XTOR4B**=Medium Door, 38W	**[Blank]**=Bright White (Standard), 5000K **W**=Neutral White, 4000K **Y**=Warm White, 3000K	**[Blank]**=Carbon Bronze (Standard) **WT**=Summit White **BK**=Black **BZ**=Bronze **AP**=Grey **GM**=Graphite Metallic **DP**=Dark Platinum	**PC1**=Photocontrol 120V [2] **PC2**=Photocontrol 208-277V [2,3] **347V**=347V [4] **HA**=50°C High Ambient [4]	**WG/XTOR**=Wire Guard [5] **XTORFLD-KNC**=Knuckle Floodlight Kit [6] **XTORFLD-TRN**=Trunnion Floodlight Kit [6] **XTORFLD-KNC-WT**=Knuckle Floodlight Kit, Summit White [6] **XTORFLD-TRN-WT**=Trunnion Floodlight Kit, Summit White [6] **EWP/XTOR**=Escutcheon Wall Plate, Carbon Bronze **EWP/XTOR-WT**=Escutcheon Wall Plate, Summit White

NOTES:

1. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
2. Photocontrols are factory installed.
3. Order PC2 for 347V models.
4. Thru-branch wiring not available with HA option or with 347V. XTOR3B not available with HA and 347V or 120V combination.
5. Wire guard for wall/surface mount. Not for use with floodlight kit accessory.
6. Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.

STOCK ORDERING INFORMATION

12W Series	**18W Series**	**26W Series**	**38W Series**
XTOR1B=12W, 5000K, Carbon Bronze	**XTOR2B**=18W, 5000K, Carbon Bronze	**XTOR3B**=26W, 5000K, Carbon Bronze	**XTOR4B**=38W, 5000K, Carbon Bronze
XTOR1B-WT=12W, 5000K, Summit White	**XTOR2B-W**=18W, 4000K, Carbon Bronze	**XTOR3B-W**=26W, 4000K, Carbon Bronze	**XTOR4B-W**=38W, 4000K, Carbon Bronze
XTOR1B-PC1=12W, 5000K, 120V PC, Carbon Bronze	**XTOR2B-WT**=18W, 5000K, Summit White	**XTOR3B-WT**=26W, 5000K, Summit White	**XTOR4B-WT**=38W, 5000K, Summit White
XTOR1B-W=12W, 4000K, Carbon Bronze	**XTOR2B-PC1**=18W, 5000K, 120V PC, Carbon Bronze	**XTOR3B-PC1**=26W, 5000K, 120V PC, Carbon Bronze	**XTOR4B-PC1**=38W, 5000K, 120V PC, Carbon Bronze
XTOR1B-W-PC1=12W, 4000K, 120V PC, Carbon Bronze	**XTOR2B-W-PC1**=18W, 4000K, 120V PC, Carbon Bronze		**XTOR4B-W-PC1**=38W, 4000K, 120V PC, Carbon Bronze

McGraw-Edison

DESCRIPTION

The Galleon™ Wall LED luminaire's appearance is complementary with the Galleon area and site luminaire bringing a modern architectural style to lighting applications. Flexible mounting options accommodate wall surfaces in both an upward and downward configuration. The Galleon family of LED products deliver exceptional performance with patented, high-efficiency AccuLED Optics™, providing uniform and energy conscious lighting for parking lots, building and security lighting applications.

Catalog #		Type
Project		OD
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Driver enclosure thermally isolated from optics for optimal thermal performance. Heavy wall aluminum housing die-cast with integral external heat sinks to provide superior structural rigidity and an IP66 rated housing. Overall construction passes a 1.5G vibration test to ensure mechanical integrity. UPLIGHTING: Specify with the UPL option for inverted mount uplight housing with additional protections to maintain IP rating.

Optics
Choice of thirteen patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 6000K CCT. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 1200mA, 800mA, and 600mA drive currents.

Electrical
LED drivers are mounted for ease of maintenance. 120-277V 50/60Hz, 347V or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Drivers are provided standard with 0-10V dimming. An optional Eaton proprietary surge protection module is available and designed to withstand 10kV of transient line surge. The Galleon Wall LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting
Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Galleon Wall "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws which are concealed but accessible from bottom of fixture.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

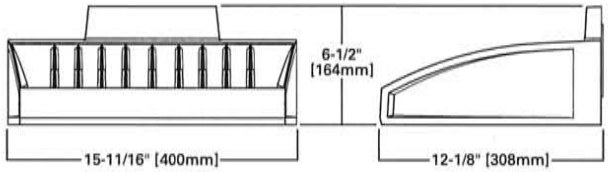
Warranty
Five-year warranty.

GWC GALLEON WALL

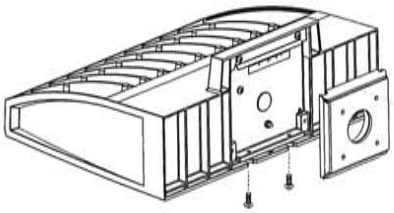
1-2 Light Squares
Solid State LED

WALL MOUNT LUMINAIRE

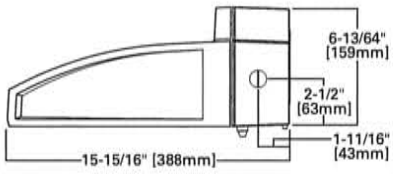
DIMENSIONS



HOOK-N-LOCK MOUNTING



BATTERY BACKUP AND THRU-BRANCH BACK BOX



CERTIFICATION DATA

UL/cUL Listed
LM79 / LM80 Compliant
IP66 Housing
ISO 9001
DesignLights Consortium® Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-30°C Minimum Temperature
40°C Ambient Temperature Rating

SHIPPING DATA

Approximate Net Weight:
27 lbs. (12.2 kgs.)

Powering Business Worldwide

*www.designlights.org

POWER AND LUMENS

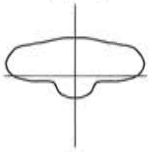
Number of Light Squares		1				2			
Drive Current		600mA	800mA	1.0A	1.2A	600mA	800mA	1.0A	1.2A
Nominal Power (Watts)		34	44	59	67	66	85	113	129
Input Current @ 120V (A)		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (mA)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (mA)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	4000K/5000K Lumens	4,110	5,040	6,238	6,843	8,031	9,849	12,190	13,373
	3000K Lumens	3,638	4,461	5,522	6,057	7,109	8,718	10,791	11,838
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
T3	4000K/5000K Lumens	4,189	5,138	6,359	6,975	8,187	10,039	12,425	13,630
	3000K Lumens	3,708	4,548	5,629	6,174	7,247	8,887	10,999	12,065
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
T4FT	4000K/5000K Lumens	4,214	5,167	6,395	7,016	8,233	10,097	12,497	13,709
	3000K Lumens	3,730	4,574	5,661	6,211	7,288	8,938	11,062	12,135
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3
T4W	4000K/5000K Lumens	4,159	5,100	6,313	6,925	8,127	9,966	12,336	13,532
	3000K Lumens	3,682	4,515	5,588	6,130	7,194	8,822	10,920	11,979
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
SL2	4000K/5000K Lumens	4,102	5,032	6,227	6,831	8,018	9,832	12,170	13,350
	3000K Lumens	3,631	4,454	5,512	6,047	7,098	8,703	10,773	11,817
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
SL3	4000K/5000K Lumens	4,188	5,137	6,358	6,974	8,186	10,038	12,424	13,628
	3000K Lumens	3,707	4,547	5,628	6,173	7,246	8,886	10,998	12,064
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3
SL4	4000K/5000K Lumens	3,980	4,880	6,040	6,626	7,776	9,537	11,803	12,949
	3000K Lumens	3,523	4,320	5,347	5,865	6,883	8,442	10,448	11,462
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3
5NQ	4000K/5000K Lumens	4,321	5,298	6,558	7,193	8,443	10,353	12,814	14,057
	3000K Lumens	3,825	4,690	5,805	6,367	7,474	9,164	11,343	12,443
	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
5MQ	4000K/5000K Lumens	4,400	5,396	6,678	7,326	8,598	10,544	13,050	14,315
	3000K Lumens	3,895	4,777	5,911	6,485	7,611	9,334	11,552	12,672
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
5WQ	4000K/5000K Lumens	4,412	5,410	6,695	7,345	8,621	10,572	13,085	14,354
	3000K Lumens	3,906	4,789	5,926	6,502	7,631	9,358	11,583	12,706
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
SLL/SLR	4000K/5000K Lumens	3,681	4,515	5,588	6,129	7,193	8,821	10,917	11,976
	3000K Lumens	3,258	3,997	4,946	5,425	6,367	7,808	9,664	10,601
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3
RW	4000K/5000K Lumens	4,281	5,250	6,498	7,129	8,366	10,259	12,698	13,930
	3000K Lumens	3,790	4,647	5,752	6,311	7,406	9,081	11,240	12,331
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2

* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.

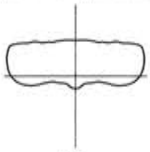
OPTICAL DISTRIBUTIONS

Asymmetric Area Distributions

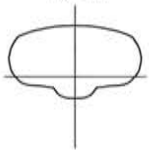
T2
(Type II)



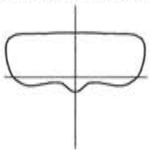
SL2
(Type II with Spill Control)



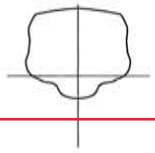
T3
(Type III)



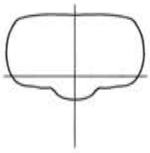
SL3
(Type III with Spill Control)



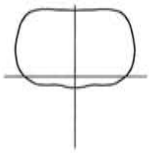
T4FT
(Type IV Forward Throw)



T4W
(Type IV Wide)

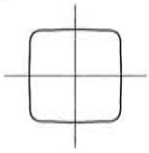


SL4
(Type IV with Spill Control)

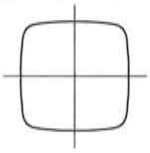


Symmertric Distributions

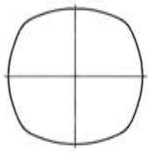
5NQ
(Type V Square Narrow)



5MQ
(Type V Square Medium)

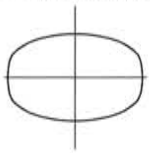


5WQ
(Type V Square Wide)

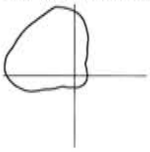


Specialized Distributions

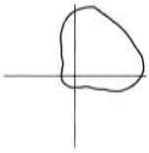
RW
(Rectangular Wide Type I)



SLL
(90° Spill Light Eliminator Left)

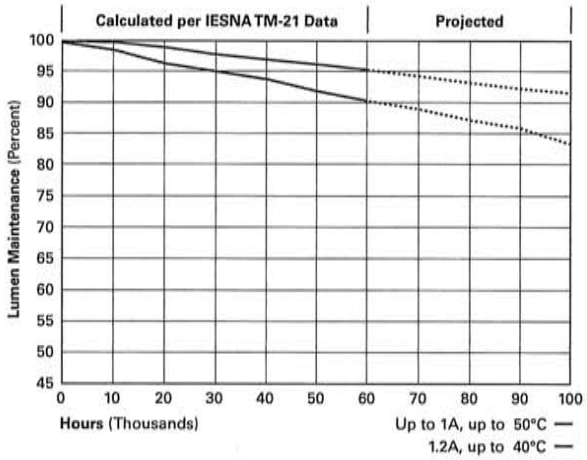


SLR
(90° Spill Light Eliminator Right)



LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	> 416,000
1.2A	Up to 40°C	> 90%	> 205,000



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

CONTROL OPTIONS

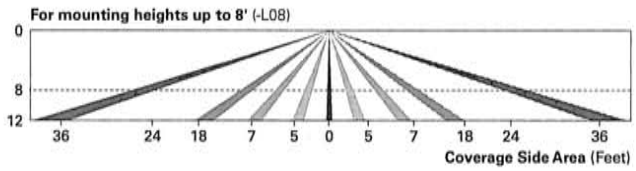
0-10V
This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

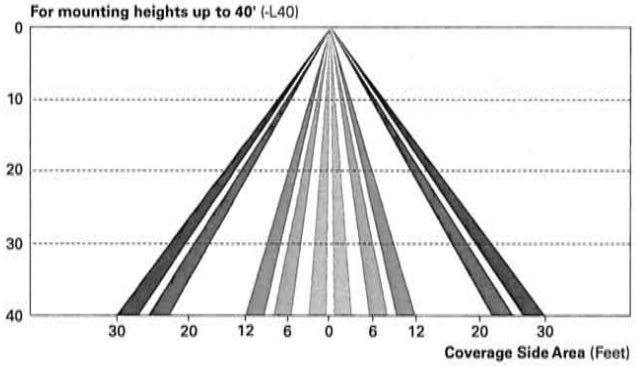
Photocontrol (P, R and PER7)
Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

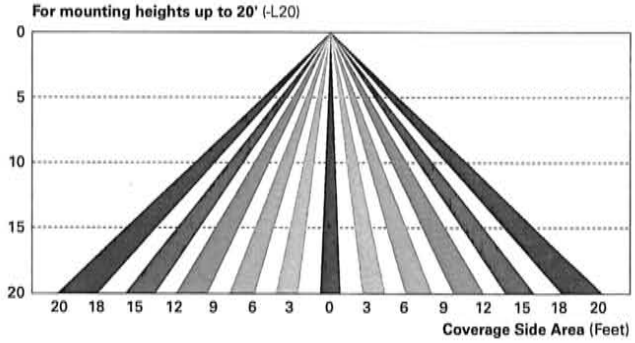
After Hours Dim (AHD)
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the 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.

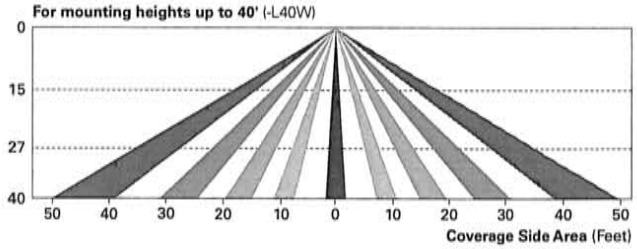
Dimming Occupancy Sensor (MS/DIM-LXX and MS-LXX)
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.

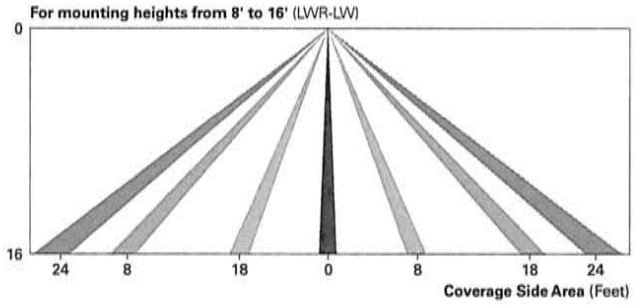


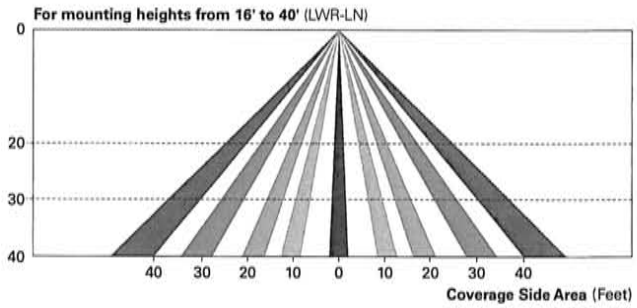






LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)
The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.





WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)
The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

ORDERING INFORMATION

Sample Number: GWC-AF-02-LED-E1-T3-GM

Product Family [1]	Light Engine	Number of Light Squares [2]	Lamp Type	Voltage	Distribution	Color	Mounting Options
GWC=Galleon Wall	**AF**=1A Drive Current	**01**=1 **02**=2 [3]	**LED**=Solid State Light Emitting Diodes	**E1**=120-277V **347**=347V [4] **480**=480V [4, 5]	**T2**=Type II **T3**=Type III **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **5NQ**=Type V Square Narrow **5MQ**=Type V Square Medium **5WQ**=Type V Square Wide	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White **CC**=Custom Color [6]	**[BLANK]**=Surface Mount

Options (Add as Suffix)	**Accessories** (Order Separately)
7030=70 CRI / 3000K [7] **8030**=80 CRI / 3000K [7] **7050**=70 CRI / 5000K [7] ~~**7060**=70 CRI / 6000K [7]~~ **600**=Drive Current Factory Set to 600mA **800**=Drive Current Factory Set to 800mA **1200**=Drive Current Factory Set to 1200mA [8] **F**=Single Fused (120, 277 or 347V. Must Specify Voltage) **FF**=Double Fused (208, 240 or 480V. Must Specify Voltage) **10K**=10kV Surge Module **DIM**=0-10V Dimming Leads [9, 10] **DALI**=DALI Driver [11] **HA**=50°C High Ambient [12] **UPL**=Uplight Housing [13] **BBB**=Battery Pack with Back Box [3, 8, 9, 14] **CWB**=Cold Weather Battery Pack with Back Box [3, 8, 9, 14] **P**=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) **R**=NEMA Twistlock Photocontrol Receptacle **PER7**=NEMA 7-PIN Twistlock Photocontrol Receptacle [15] **AHD145**=After Hours Dim, 5 Hours [16] **AHD245**=After Hours Dim, 6 Hours [16] **AHD255**=After Hours Dim, 7 Hours [16] **AHD355**=After Hours Dim, 8 Hours [16] **MS-LXX**=Motion Sensor for On/Off Operation [17, 18, 19] **MS/DIM-LXX**=Motion Sensor for Dimming Operation [17, 18, 19] **LWR-LW**=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [19, 20, 21] **LWR-LN**=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [19, 20, 21] **L90**=Optics Rotated 90° Left **R90**=Optics Rotated 90° Right **MT**=Factory Installed Mesh Top **LCF**=Light Square Trim Plate Painted to Match Housing [22] **HSS**=Factory Installed House Side Shield [23] **CE**=CE Marking and Small Terminal Block [24]	**OA/RA1013**=Photocontrol Shorting Cap **OA/RA1016**=NEMA Photocontrol - Multi-Tap 105-285V **OA/RA1201**=NEMA Photocontrol - 347V **OA/RA1027**=NEMA Photocontrol - 480V **MA1252**=10kV Circuit Module Replacement **MA1059XX**=Thru-branch Back Box (Must Specify Color) **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [17] **LS/HSS**=Field Installed House Side Shield [23, 25] **WOLC-7P-10A**=WaveLinx Outdoor Control Module (7-pin) [26]

NOTES:

1. DesignLight Consortium® Qualied. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Standard 4000K CCT and minimum 70 CRI.
3. Two light squares with BBB or CWB options limited to 25°C, 120-277V only.
4. Requires the use of a step down transformer. Not available in combination with sensor options at 1200mA.
5. 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).
6. Custom colors are available. Setup charges apply. Paint chip samples required. Extended Lead times apply.
7. Extended lead times apply. Use dedicated IES files when performing layouts.
8. Not available with HA option.
9. Cannot be used with other control options.
10. Low voltage control lead brought out 18" outside fixture.
11. Only availble with BBB or CWB in single light square. HA option available for single light square only. Limited to 1A and below.
12. Not available with 1200, UPL, BBB and CWB options. Available for single light square only.
13. Not available with SL2, SL3, SL4, HA, BBB, CWB, R, or PER7 options.
14. Operates a single light square only. Cold weather option operates -20°C to +40°C, standard 0°C to +40°C. Backbox is non-IP rated.
15. Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls.
16. Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
17. 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 Eaton for more information.
18. Replace LXX with the available mounting height options: L08, L20, L40 or L40W are the only choices.
19. Includes integral photosensor.
20. LumaWatt wireless sensors are factory installed requiring network components in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
21. Bronze sensor is shipped with Bronze fixtures. White sensor shipped on all other housing color options.
22. Not available with HSS option.
23. Only for use with SL2, SL3 and SL4 distributions. The light square trim plate is painted black when the HSS option is selected.
24. CE is not available with the 1200, DALI, LWR, MS, MS/DIM, P, R or PER7 options. Available in 120-277V only.
25. One required for each light square.
26. Requires 7-pin NEMA twistlock photocontrol receptacle.

Portfolio

DESCRIPTION

8-inch LED recessed narrow, medium, or wide beam downlight specially designed for LED technology. Two-stage reflector system produces smooth distribution with excellent light control and low aperture brightness. Offered with 1000-20,000 lumens with color temperatures of 2700K, 3000K, 3500K, 4000K, 5000K available in 80, 90 or 97 CRI. Available with dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space.

Catalog #		Type
Project		OF
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Lower Shielding Reflector
Self-flanged, spun .060" thick aluminum lower reflector in combination with a lensed upper optical chamber provides superior lumen output with minimal source brightness. Available in all Portfolio Alzak® finishes.

Trim Retention
Lower reflector is retained with two torsion springs holding the flange tightly to the finished ceiling surface.

Plaster Frame / Collar
Die cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2".

Universal Mounting Bracket
Accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

Junction Box
(4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring.

Thermal
Aluminum heat sink conducts heat away from the LED module for improved performance and longer life.

LED
LED system contains a plurality of high brightness white LED's combined with a high reflectance upper reflector and transitional lens producing even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Color variation within 3-step MacAdam ellipses. Flexible disconnect allows for tool-less replacement of LED engine from below ceiling. Available in 80, 90 or 97 CRI.
D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver
Combination 0-10V/trailing edge driver provides flicker free dimming from 100% to 10%. Optional 1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture. 1000 - 7000 lumen utilize one driver. 8000-12,000 utilize two drivers, 15,000-20,000 lumen utilizes three drivers.

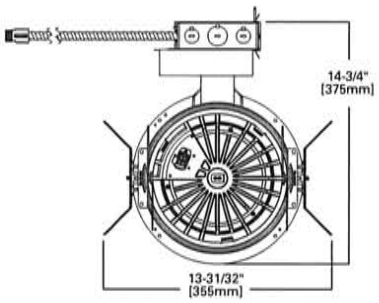
Code Compliance
Thermally protected and cULus listed for protected wet locations. cCSAus certified. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/ RFI emissions per FCC 47CFR Part 18 Class B consumer limits. IC rated up to 2000 lumens. 3000 lumens and above are non-IC rated - Insulation must be kept 3" from top and sides of housing. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 standards. LED life testing completed in accordance with LM 80 standards. 8000 lumen and above are marked spacing and must follow spacing requirements.

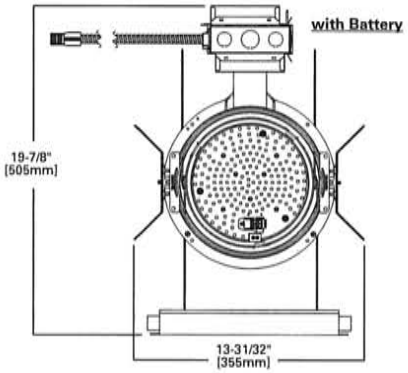
Warranty
5-year warranty.

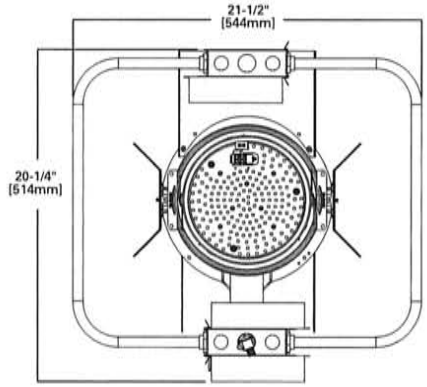
LD8B
ER8B
8LB

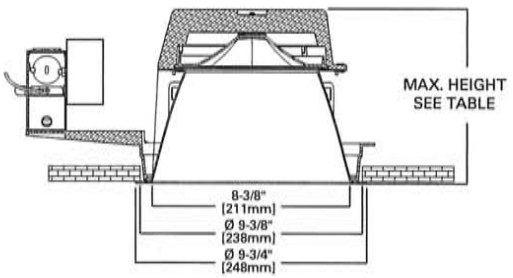
1,000-20,000 Lumen LED

8-Inch Narrow, Medium, or Wide Downlight
New Construction









	Low Lumen (1000-7000)	High Lumen (8000-20000)
Distribution	Max. Height	Max Height
Narrow	7-25/32"	9-3/4"
Medium	7-5/16"	9-9/32"
Wide	6-11/16"	8-11/16"
Shallow	4-26/32"	6-26/32"

D2W™

RoHS

Showerlight

powered by fifthlight technology

EATON
Powering Business Worldwide

ORDERING INFORMATION

SAMPLE NUMBER: LD8B50D010IEMBOD

Housing	Lumens[1]	Driver	Color Control[9]	Voltage
LD8B=LED Downlight 8" Nominal Aperture **LD8BCP**=LED Downlight 8" Nominal Aperture, Chicago Plenum	**10**=1000 lumens **15**=1500 lumens **20**=2000 lumens **30**=3000 lumens **40**=4000 lumens **50**=5000 lumens **60**=6000 lumens **70**=7000 lumens **80**=8000 lumens[8] **90**=9000 lumens[8] **100**=10000 lumens[8] **120**=12000 lumens[8] **150**=15000 lumens[8] **175**=17500 lumens[8] **200**=20000 lumens[8]	**1000-4000 Lumen and 8000-9000 Lumen** **D010**=0-10V Dimming, 1% to 100%, 120V-277V **D010TR**=0-10V 120-277V or 120V Line Voltage Dimming, 1% to 100%, 120V-277V **DE010**=0-10V Dimming, 0% to 100%, 120V-277V **D5LT**=Fifth Light® (DALI) Dimming, 0% to 100%, 120V-277V **DMX**=DMX Dimming, 0% to 100%, 120V-277V[7] **DL2**=Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only **DL3**=Lutron® Hi-Lume 3 Wire Dimming, 1% to 100%, 120V-277V **DLE**=Lutron Ecosystem dimming 1% to 100%, 120V-277V **1000 - 3000 Lumen** **DLV**=Low voltage dimming driver (1-100%) for use with DLVP system (3000 lumen and below)[3,2] **5000, 6000,7000, 10,000, 12,000 15,000, 17,500 and 20,000 Lumen** **D010TE**=0-10V or Trailing Edge Dimming, 5% to 100%, 120V-277V (120V Only for Trailing Edge Dimming)	**4000, 6000 & 9000 lumens** **D2W**=2 drivers for 4000 and 6000 lumen. 3 drivers for 9000 lumen.	**Blank**=120-277 7000 lumen and below. D2W below 3000 lumens **1**=120V 8000 lumen and above. D2W and DMX above 4000 lumens. **2**=277V 8000 lumen and above. D2W and DMX above 4000 lumens. **3**=347V step down transformer

Control Options	Options
SWPD1=Factory Installed WaveLinx Tilemount Daylight Sensor (includes Control Module, Sensor, Cable and Tile Mount (use with 0-10V driver)[2, 7] **LWTPD1**=Factory Installed LumaWatt Pro Wireless Sensor Kit (use with 0-10V driver)[2, 7]	**EMBOD**=Bodine® Emergency Module with Remote Test Switch[3] **EM7**=7W Emergency Module with Remote Test Switch[3, 4] **EM14**=14W Emergency Module with Remote Test Switch[3, 4] **IEMBOD**=Bodine® Emergency Module with Integral Test Switch[3] **IEM7**=7W Emergency Module with Integral Test Switch[3, 4] **IEM14**=14W Emergency Module with Integral Test Switch[3, 4] **EMV7**=7W Low Voltage Emergency Module with Remote Test Switch[3,4] **EMV14**=14W Low Voltage Emergency Module with Remote Test Switch[3,4] **IEMV7**=7W Low Voltage Emergency Module with Integral Test Switch[3,4] **IEMV14**=14W Low Voltage Emergency Module with Integral Test Switch[3,4]

SAMPLE NUMBER: ER8B30408035

Power Module	Lumen Levels[1]	Color		
ER8B=8" LED Module	**1020**=1000, 1500, 2000 lumens **3040**=3000 or 4000 lumens, 3000 IC Rated **5070**=5000, 6000, or 7000 lumens **80120**=8000, 9000, 10000, or 12000 lumens **150200**=15000 or 20000 lumens	**80 CRI** **8027**= 80CRI, 2700K **8030**= 80CRI, 3000K **8035**= 80CRI, 3500K **8040**= 80CRI, 4000K **8050**= 80CRI, 5000K	**90 CRI** **9027**= 90CRI, 2700K **9030**= 90CRI, 3000K **9035**= 90CRI, 3500K **9040**= 90CRI, 4000K **9050**= 90CRI, 5000K	**97 CRI** **9727**= 97CRI, 2700K **9730**= 97CRI, 3000K
	Dim 2 Warm **109030D2W**=1000 Lumen, 90 CRI, Dim 2 Warm, IC Rated **159030D2W**=1500 Lumen, 90 CRI, Dim 2 Warm, IC Rated **209030D2W**=2000 Lumen, 90 CRI, Dim 2 Warm, IC Rated **309030D2W**=3000 Lumen, 90 CRI, Dim 2 Warm **409030D2W**=4000 Lumen, 90 CRI, Dim 2 Warm **609030D2W**=6000 Lumen, 90 CRI, Dim 2 Warm **909030D2W**=9000 Lumen, 90 CRI, Dim 2 Warm			

SAMPLE NUMBER: 8LBM1LI

Trim	Distribution[5]	Flange	Finish	Options
8LB=8" Reflector	**N**=Narrow Spun Aluminum **M**=Medium Spun Aluminum **W**=Wide Spun Aluminum **S**=Shallow Spun Aluminum	**0**=White Polymer Trim Ring **1**=Self-flanged[10] **2**=White Painted Self-flanged	**LI**=Specular Clear **H**=Semi-Specular Clear **WMH**=Warm Haze **WH**=Wheat **GPH**=Graphite Haze **B**=Specular Black **MW**=Matte White	**E**=Integral Emergency Test Switch Hole[6]

Accessories
HSA8=Slope Adapter for 8" Aperture Housings, Specify Slope **LGSKT8IP65**=IP65 Gasket Kit **HSA8**=Slope adapter for 8" aperture housings[11] **Bar Hangers** **HB26**=C-channel Bar Hanger, 26" Long, Pair **HB50**=C-channel Bar Hanger, 50" Long, Pair **Transformers** **H347**=347 to 120V Step Down Transformer, 75VA **H347200**=347 to 120V Step Down Transformer, 200VA **Connected Lighting Systems** **PORLWTPD1**=LumaWatt Pro Wireless Sensor kit (use with 0-10V), field installed[2] **TMSWPD1**=WaveLinx Tilemount Daylight Sensor (Includes Control Module, Sensor, cable and Tile Mount, use with 0-10V Driver) Field Installed[2]

Notes:

1. Nominal Lumens will vary depending on selected color, driver and reflector finish.
2. Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory.
3. Not available with Chicago Plenum.
4. ULus listed only
5. Beam angles are nominal with LI finish trims. See chart.
6. Only available with Narrow, Medium and Wide Spun Aluminum trims. Required for use with all IEMBOD, IEM7, IEM14, IEMV7 and IEMV14 housings.
7. DMX fixtures default to full on upon loss of DMX signal
8. Product is marked spacing and must be installed with the following minimum spacing
   -Center to center of adjacent luminaires: 36"
   -Center of luminaire to side of building member: 18"
   -Minimum overhead: 1/2"
   -20,000 Lumens minimum overhead: 6"
9. Field required for D2W 4000, 6000 and 9000 lumens only.
10. Flange is the same finish as the reflector.
11. Consult accessory specification sheet for ordering information.

NOMINAL BEAM ANGLES WITH LI FINISH				
	Narrow	Medium	Wide	Shallow
1000-7000	15	40	73	86
8000-12000	30	44	73	86
15000-20000	34	46	73	86

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

ENERGY DATA

Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -20°C (-4°F)
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)
Power Factor: >0.90
Input Frequency: 50-60Hz

1000 Lumen D010	
Input Power: 11W	THD <14%
Input Current:0.11A	277V Input Current:0.04A

1500 Lumen D010	
Input Power:15.5 W	THD <13%
Input Current:0.15A	277V Input Current:0.06A

2000 Lumen D010	
Input Power:21.2 W	THD <9%
Input Current:0.2A	277V Input Current:0.08A

3000 Lumen D010	
Input Power:27.6 W	THD <10%
Input Current:0.25A	277V Input Current:0.11A

4000 Lumen D010	
Input Power:41.6 W	THD <13%
Input Current:0.37A	277V Input Current:0.16A

5000 Lumen D010TE	
Input Power:57.9 W	THD <14%
Input Current:0.41A	277V Input Current:0.18A

6000 Lumen D010TE	
Input Power:59.7 W	THD <14%
Input Current:0.49A	277V Input Current:0.21A

7000 Lumen D010TE	
Input Power:75.8 W	THD <13%
Input Current:0.6A	277V Input Current:0.25A

8000 Lumen D010	
Input Power:73.8 W	THD <13%
Input Current:0.61A	277V Input Current:0.26A

9000 Lumen D010	
Input Power:86.9 W	THD <13%
Input Current:0.83A	277V Input Current:0.32A

10000 Lumen D010TE	
Input Power:115.4 W	THD <13%
Input Current:0.83A	277V Input Current:0.36A

12000 Lumen D010TE	
Input Power:119.4 W	THD <13%
Input Current:0.98A	277V Input Current:0.42A

15000 Lumen D010TE	
Input Power:173.7 W	THD <13%
Input Current:1.25A	277V Input Current:0.42A

17500 Lumen D010TE	
Input Power:179.1 W	THD <13%
Input Current:1.47A	277V Input Current:0.63A

20000 Lumen D010TE	
Input Power:227.4 W	THD <13%
Input Current:1.8A	277V Input Current:0.77A

COLOR METRIC SUMMARY

8027	
R_f	93.2
R_g	94.1
CRI	81.3
R_9	0.7

8030	
R_f	83.4
R_g	94.4
CRI	82.4
R_9	4.5

8035	
R_f	83.7
R_g	94.8
CRI	9.1
R_9	9.1

8040	
R_f	83.3
R_g	94
CRI	83.7
R_9	9.9

8050	
R_f	82.5
R_g	94.3
CRI	94.2
R_9	11.9

9027	
R_f	92
R_g	98.4
CRI	93.4
R_9	59.3

9030	
R_f	91.6
R_g	98.6
CRI	93.2
R_9	60.2

9035	
R_f	90.9
R_g	98.3
CRI	93.3
R_9	63.1

9040	
R_f	89.4
R_g	96.6
CRI	91.8
R_9	58

9050	
R_f	88.4
R_g	96.8
CRI	91
R_9	55.2

9727	
R_f	95
R_g	100.1
CRI	98
R_9	93.9

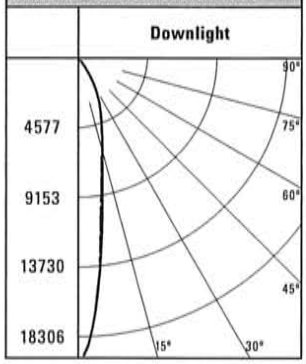
9730	
R_f	94.2
R_g	99.6
CRI	98.5
R_9	94.7

PHOTOMETRY

NARROW (15° BEAM)

Test Number	
Housing	LD8B50D010
Module	ER8B50835
Trim	8LBN0H
Lumens	4986
Efficacy	94.1 Lm/W
SC	0.32

CANDLEPOWER DISTRIBUTION



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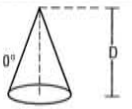


MH	FC	L	W
4'	1144.4	1.2	1.2
7'	373.7	2.2	2.2
9'	226.1	2.8	2.8
13'	108.3	4	4
16'	71.5	5	5

CANDELA TABLE

Degrees Vertical	Candela
0	18310
5	14091
15	5762
25	3117
35	1021
45	99
55	5
65	1
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	4214	84.5
0-40	4883	97.9
0-60	4983	99.9
0-90	4986	100
90-180	0	0
0-180	4986	100

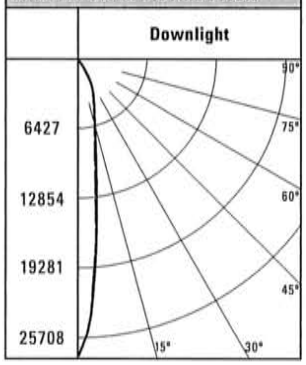
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	4330
55	253
65	88
75	143
85	0

NARROW (15° BEAM)

Test Number	
Housing	LD8B50D010
Module	ER8B50835
Trim	8LBN0LI
Lumens	5248
Efficacy	99 Lm/W
SC	0.25

CANDLEPOWER DISTRIBUTION



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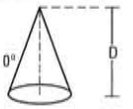


MH	FC	L	W
4'	1607	1	1
7'	524.7	1.6	1.6
9'	317.4	2.2	2.2
13'	152.1	3.2	3.2
16'	100.4	4	4

CANDELA TABLE

Degrees Vertical	Candela
0	25712
5	17790
15	5743
25	3148
35	879
45	101
55	7
65	7
75	4
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	4514	86
0-40	5134	97.8
0-60	5238	99.8
0-90	5248	100
90-180	0	0
0-180	5248	100

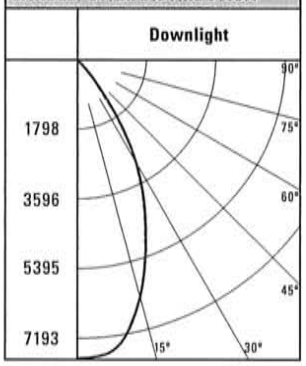
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	4422
55	382
65	518
75	429
85	0

MEDIUM (40° BEAM)

Test Number	
Housing	LD8B50D010
Module	ER8B50835
Trim	8LBM0H
Lumens	5426
Efficacy	102.4 Lm/W
SC	0.8

CANDLEPOWER DISTRIBUTION



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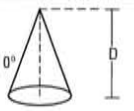


MH	FC	L	W
4'	449.8	3.2	3.2
7'	146.9	5.6	5.6
9'	88.8	7.2	7.2
13'	42.6	10.4	10.4
16'	28.1	12.8	12.8

CANDELA TABLE

Degrees Vertical	Candela
0	7197
5	7141
15	5914
25	3883
35	1774
45	244
55	16
65	2
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	4078	75.2
0-40	5174	95.4
0-60	5422	99.9
0-90	5426	100
90-180	0	0
0-180	5426	100

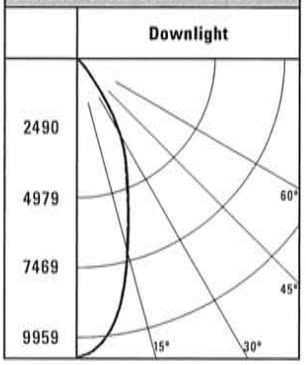
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	10619
55	887
65	175
75	143
85	0

MEDIUM (40° BEAM)

Test Number	
Housing	LD8B50D010
Module	ER8B50835
Trim	8LBM0LI
Lumens	5711
Efficacy	107.8 Lm/W
SC	0.63

CANDLEPOWER DISTRIBUTION



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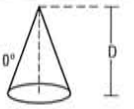

MH	FC	L	W
4'	622.7	2.4	2.4
7'	203.3	4.4	4.4
9'	123	5.6	5.6
13'	59	8	8
16'	38.9	10	10

CANDELA TABLE

Degrees Vertical	Candela
0	9963
5	9498
15	6587
25	3908
35	1559
45	219
55	27
65	7
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	4491	78.6
0-40	5481	96
0-60	5702	99.8
0-90	5711	100
90-180	0	0
0-180	5711	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	9546
55	1435
65	518
75	214
85	0

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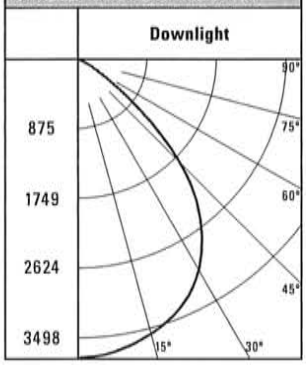
PHOTOMETRY

SHALLOW (86° BEAM)

Test Number	
Housing	LD8B50D010
Module	ER8B50835
Trim	8LBS0H
Lumens	6035
Efficacy	113.9 Lm/W
SC	1.2

CANDLEPOWER DISTRIBUTION



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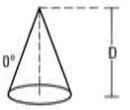


MH	FC	L	W
4'	218.9	4.6	4.6
7'	71.5	8.2	8.2
9'	43.2	10.6	10.6
13'	20.7	15.4	15.4
16'	13.7	19	19

CANDELA TABLE

Degrees Vertical	Candela
0	3502
5	3477
15	3322
25	3056
35	2525
45	1630
55	459
65	84
75	18
85	4
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	2670	44.2
0-40	4240	70.2
0-60	5920	98.1
0-90	6035	100
90-180	0	0
0-180	6035	100

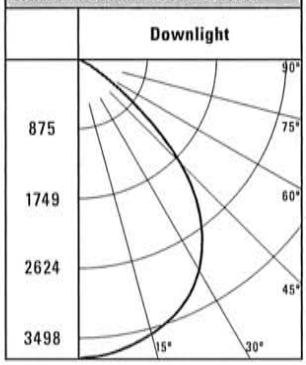
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	71087
55	24682
65	6100
75	2121
85	1274

SHALLOW (86° BEAM)

Test Number	
Housing	LD8B50D010
Module	ER8B50835
Trim	8LBS0LI
Lumens	6206
Efficacy	117.1 Lm/W
SC	1.28

CANDLEPOWER DISTRIBUTION



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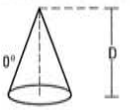

MH	FC	L	W
4'	216.3	5	5
7'	70.6	8.8	8.8
9'	42.7	11.4	11.4
13'	20.5	16.6	16.6
16'	13.5	20.4	20.4

CANDELA TABLE

Degrees Vertical	Candela
0	3460
5	3462
15	3498
25	3343
35	2681
45	1591
55	418
65	57
75	5
85	2
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	2850	45.9
0-40	4513	72.7
0-60	6132	98.8
0-90	6206	100
90-180	0	0
0-180	6206	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	69395
55	22488
65	4159
75	631
85	637

Nominal Scaling From 80 CRI 3500K		
CRI	**CCT**	**Lumen Mult**
80	2700	0.938
80	3000	0.962
80	3500	1.000
80	4000	0.993
80	5000	1.013
90	2700	0.784
90	3000	0.826
90	3500	0.853
90	4000	0.891
90	5000	0.922
97	2700	0.696
97	3000	0.737

Nominal Scaling From 5000 lumen package	
LUMEN PACKAGE	**LUMEN MULT**
1000 LUMEN	0.207
1500 LUMEN	0.280
2000 LUMEN	0.398
3000 LUMEN	0.562
4000 LUMEN	0.799
5000 LUMEN	1.000
6000 LUMEN	1.133
7000 LUMEN	1.368
8000 LUMEN	1.535
9000 LUMEN	1.729
10,000 LUMEN	1.994
12,000 LUMEN	2.261
15,000 LUMEN	2.949
17,500 LUMEN	3.329
20,000 LUMEN	3.924