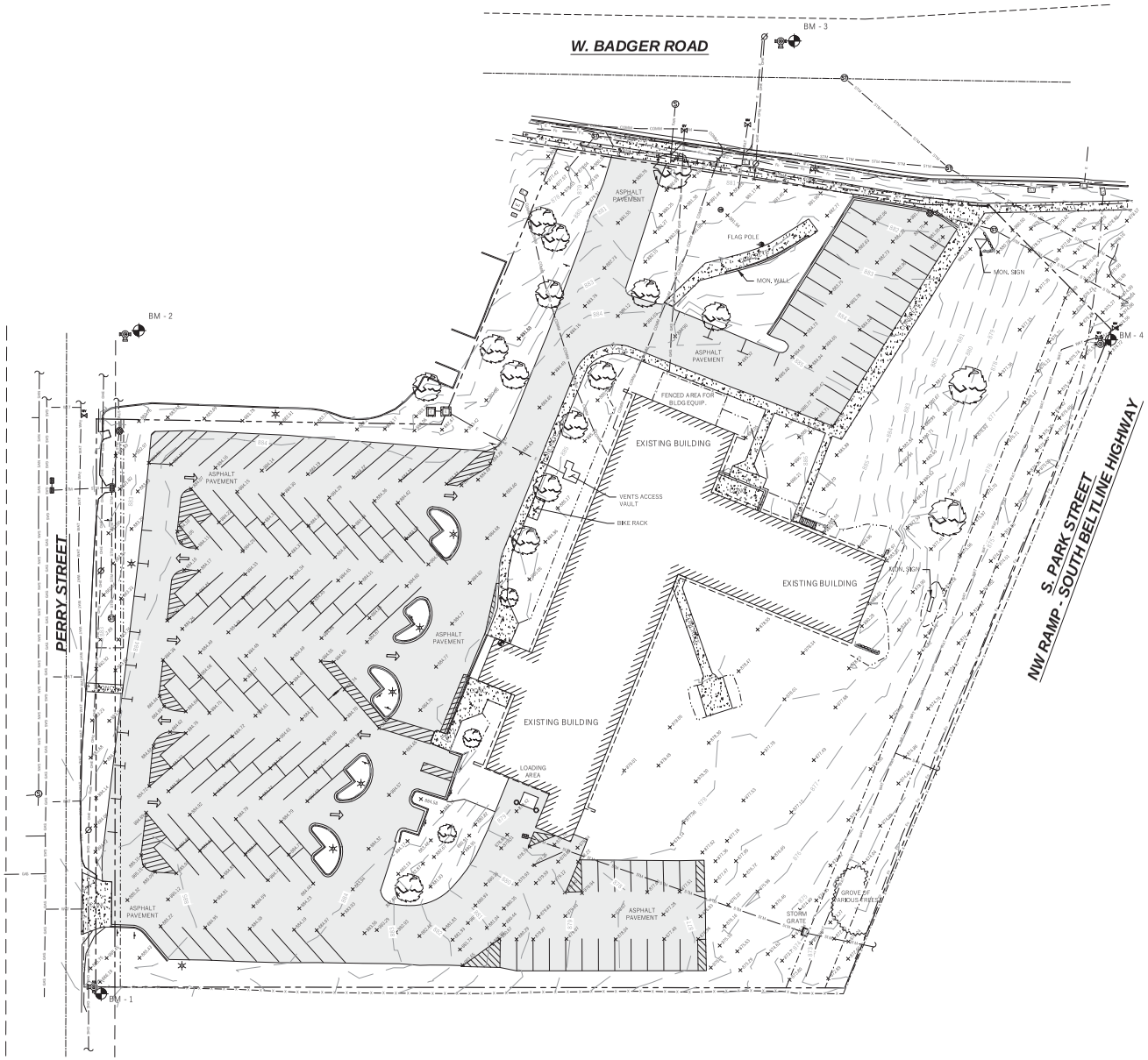
MADISON AREA | TECHNICAL COLLEGE

Madison College - South Campus
Plan Commission Submittal

December 15, 2017

pra
PLUNKETT RAYSICH
ARCHITECTS, LLP



LEGEND

- SIGN
- BOLLARD
- SANITARY MANHOLE
- SEWER CLEANOUT
- GAS VALVE
- FIRE HYDRANT
- WATER VALVE
- STORM MANHOLE
- INLETS
- STORM CATCH BASIN
- UTILITY POLE
- LIGHT POLE
- ELECTRICAL TRANSFORMER
- ELECTRICAL PANEL BOX
- UTILITY PEDESTAL
- UTILITY VAULT
- DECIDUOUS TREE
- PROPERTY LINE (PROVIDED BY OTHERS)
- RIGHT-OF-WAY LINE
- CENTERLINE
- EASEMENT LINE
- BUILDING FOOTPRINT
- EDGE OF CONCRETE
- EDGE OF ASPHALT
- RAILING
- STONE WALL
- SAN — SANITARY SEWER
- WAT — WATER MAIN
- STM — STORM SEWER
- GAS — NATURAL GAS LINE
- COMM — COMMUNICATION LINE
- E — ELECTRIC LINE
- OHE — OHE — OVERHEAD ELECTRIC LINE
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- 1240 — CONTOUR MAJOR
- 1241 — CONTOUR MINOR

NORTH

0' 15' 30' 45'
1" = 30' on 22"x34"
1"= 60' on 11"x17"

GENERAL NOTES

1. FIELD WORK PERFORMED BY WYSER ENGINEERING, LLC, ON SEPTEMBER 8, 2017.
2. ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. NORTH REFERENCE FOR THIS EXISTING CONDITIONS SURVEY AND MAP ARE BASED ON THE WISCONSIN COORDINATE REFERENCE SYSTEM, NAD 83 (2011) WISCRS DANE, GRID NORTH.
4. SUBSURFACE UTILITIES AND FIXTURES SHOWN ON THIS MAP HAVE BEEN APPROXIMATED BY LOCATING SURFACE FEATURES AND ACCESSORIES, DIGGERS HOTLINE FIELD MARKINGS AND EXISTING MAPS AND RECORDS.
5. BEFORE EXCAVATION, APPROPRIATE UTILITY COMPANIES SHOULD BE CONTACTED, FOR EXACT LOCATION OF UNDERGROUND UTILITIES, CONTACT DIGGERS HOTLINE, AT 1.800.242.8511 OR 811
6. THIS PARCEL IS SUBJECT TO ALL EASEMENTS AND AGREEMENTS, BOTH RECORDED AND UNRECORDED.
7. FEATURES HAVE BEEN LOCATED BY SURVEYOR IN FIELD THAT MAY HAVE ADVERSE TITLE ELEMENTS, AS TO WHICH ELEMENT ENCROACHMENT, CLAIM OF UNRECORDED EASEMENT, PRESCRIPTIVE EASEMENT, AND SO FORTH CAN NOT BE DETERMINED BY SURVEYOR.

BENCHMARK TABLE

BM - #	ELEVATION	DESCRIPTION
BM - 1	888.94	TOP NUT OF HYDRANT LOCATED NEAR SOUTHWEST CORNER OF SITE ON EAST SIDE OF PERRY STREET
BM - 2	885.52	TOP NUT OF HYDRANT LOCATED NORTH OF PERRY STREET ENTRANCE TO MADISON FIRE DEPARTMENT STATION #6
BM - 3	882.29	TOP NUT OF HYDRANT LOCATED ON NORTH SIDE OF W. BADGER ROAD IN MEDIAN
BM - 4	878.13	TOP NUT OF HYDRANT LOCATED NEAR FENCELINE AT NORTHEAST CORNER OF SITE

DIGGERS HOTLINE
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WYSER ENGINEERING

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801 W. BADGER ROAD
MADISON, WI 53713

MADISON COLLEGE - SOUTH CAMPUS

CITY OF MADISON, DANE COUNTY, WI

Sheet Title:
TOPOGRAPHIC & UTILITY MAP

Revisions:

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Graphic Scale	0' 15' 30' 45'
Wyser Number	17-0407
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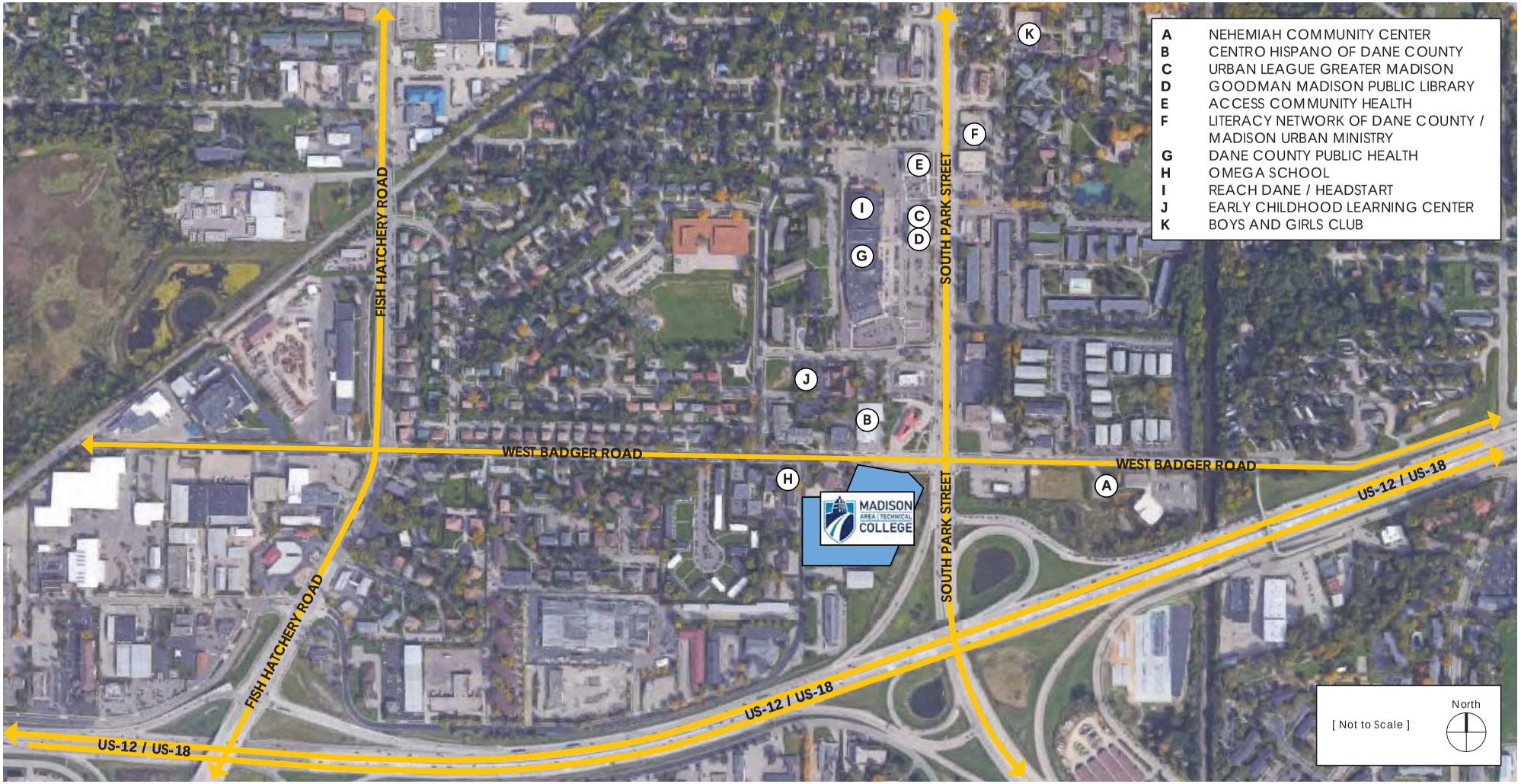
File: W:\2017\170407_Madison College - South Campus\DWG\17-0407_Topo.dwg Layout: Site Plan User: WYSER - Z240 - W10 Plotted: Sep 19, 2017 - 4:01pm

MADISON AREA | TECHNICAL COLLEGE

pra PLUNKETT RAYSICH ARCHITECTS, LLP

Madison College - South Campus - Madison, WI



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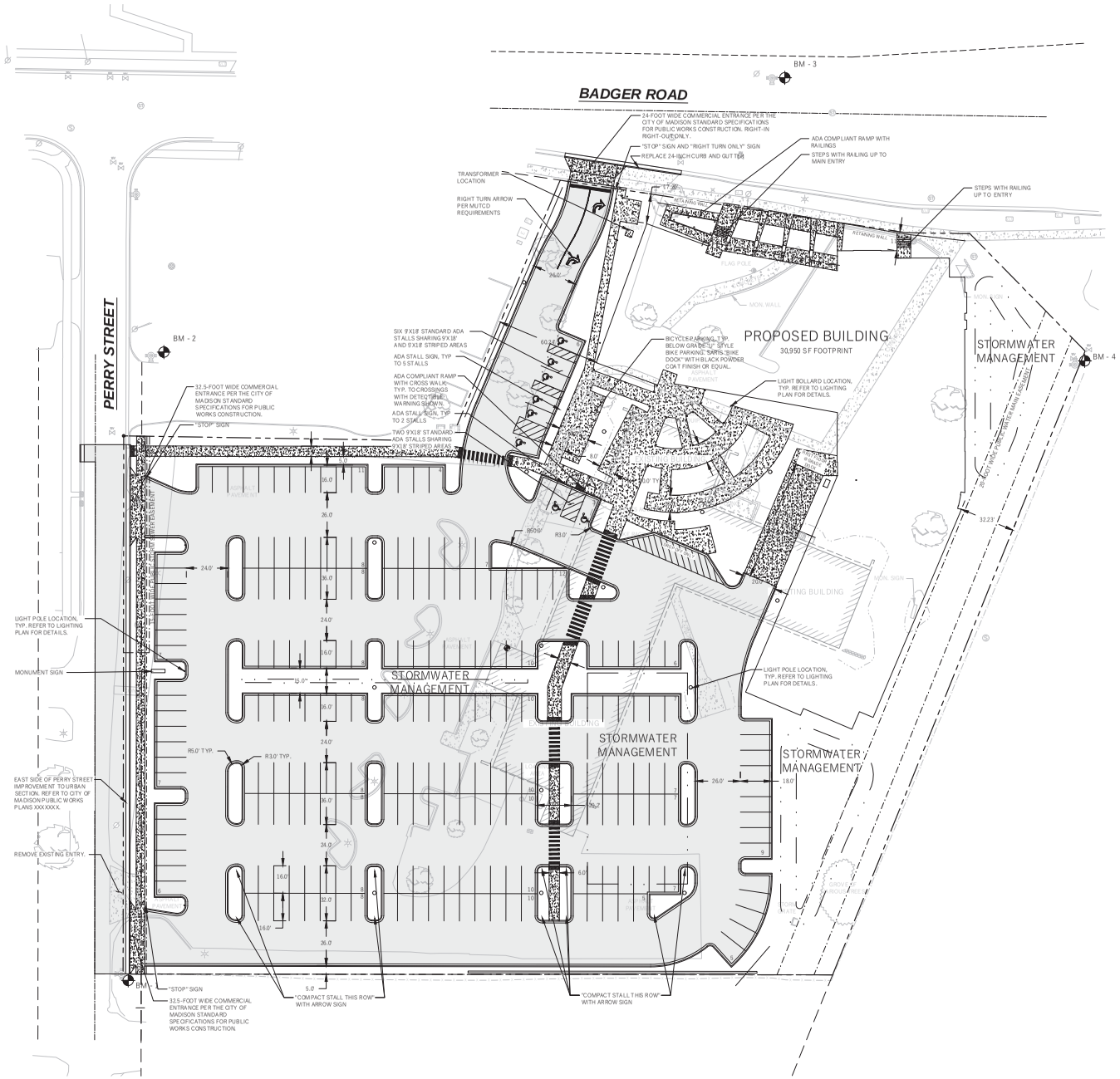
Aerial Map



LEGEND (PROPOSED)

- PROPOSED PROPERTY BOUNDARY
- EASEMENT
- BUILDING FOOTPRINT
- 18" CURB AND GUTTER (PRIVATE)
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- STORMWATER TREATMENT FACILITY

NORTH

GENERAL NOTES

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2. THE BENCHMARK LOCATIONS ARE SHOWN FOR REFERENCE ONLY ON THIS PLAN. THE BENCHMARKS SHALL BE VALIDATED BY LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION. CONTRACTOR ASSUMES RISK ASSOCIATED WITH BENCHMARK ELEVATIONS UNTIL CONFIRMED.
3. CONTRACTOR TO OBTAIN APPROPRIATE PERMITS FOR STREET OPENINGS & TO WORK WITHIN THE CITY'S LAND IF REQUIRED.
4. WYSER ENGINEERING SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER OR CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY REGULATORY AGENCIES.
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6. ALL MUNICIPAL UTILITY CONNECTIONS, WORK IN ROW, PUBLIC OUTLOTS AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

SITE INFORMATION BLOCK:

SITE ADDRESS: 801 WEST BADGER ROAD
SITE ACREAGE: 194,683 SF (4.47 AC)
USE OF PROPERTY: COMMERCIAL
ZONING: COMMERCIAL CENTER (CC - MGO 28.068) AND URBAN DESIGN DISTRICT #7

SETBACKS:
FRONT YARD: 70% OF STREET FACING BUILDING WALL SHALL BE SETBACK NO MORE THAN 85 FEET
REAR YARD: 20-FEET
SIDE YARD: 6-FEET

PARKING REQUIREMENTS: (MGO 28.141(4)(g))
MINIMUM: 1 PER CLASSROOM + 1 PER 5 STUDENTS BASED ON THE MAXIMUM # OF STUDENTS ATTENDING CLASSES AT ANY ONE TIME - OR - AS ESTABLISHED IN A CAMPUS MASTER PLAN = 246
MAXIMUM: 1 PER CLASSROOM + 1 PER 3 STUDENTS BASED ON THE MAXIMUM # OF STUDENTS ATTENDING CLASSES AT ANY ONE TIME - OR - AS ESTABLISHED IN A CAMPUS MASTER PLAN = 383

BICYCLE REQUIREMENTS: (MGO 28.141(4)(g))
1 PER 5 STUDENTS BASED ON THE MAXIMUM # OF STUDENTS ATTENDING CLASSES AT ANY ONE TIME - OR - AS ESTABLISHED IN A CAMPUS MASTER PLAN = 205

NUMBER OF CLASSROOMS: 41
MAXIMUM # OF STUDENTS ATTENDING CLASSES AT ONE TIME: 1,025

TOTAL NUMBER OF PARKING STALLS: 240
SMALL STALLS (PERCENT OF TOTAL): 48 (20.0%)
NUMBER OF STALLS DESIGNATED ACCESSIBLE: 8

TOTAL NUMBER OF BIKE STALLS: 46

MAXIMUM IMPERVIOUS LOT COVERAGE: 85%

EXISTING IMPERVIOUS SURFACE AREA: 100,915 SQ.FT. (51.8%)
ROOFTOP: 19,010 SQ.FT.
PAVED: 81,905 SQ.FT.

NEW IMPERVIOUS SURFACE AREA: 139,500 SQ.FT. (71.6%))
ROOFTOP: 30,950 SQ.FT.
PAVED: 108,550 SQ.FT.

DISTURBANCE LIMITS: 190,000 SQ.FT.

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WYSER ENGINEERING

MADISON AREA TECHNICAL COLLEGE

801 WEST BADGER ROAD
MADISON, WI 53713

MADISON COLLEGE - SOUTH CAMPUS

CITY OF MADISON, DANE COUNTY, WI

Sheet Title: SITE PLAN

Revisions:

No.	Date:	Description:

Graphic Scale	0' 15' 30' 45'
Wyser Number	17-0407
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Date Issued	11/21/2017
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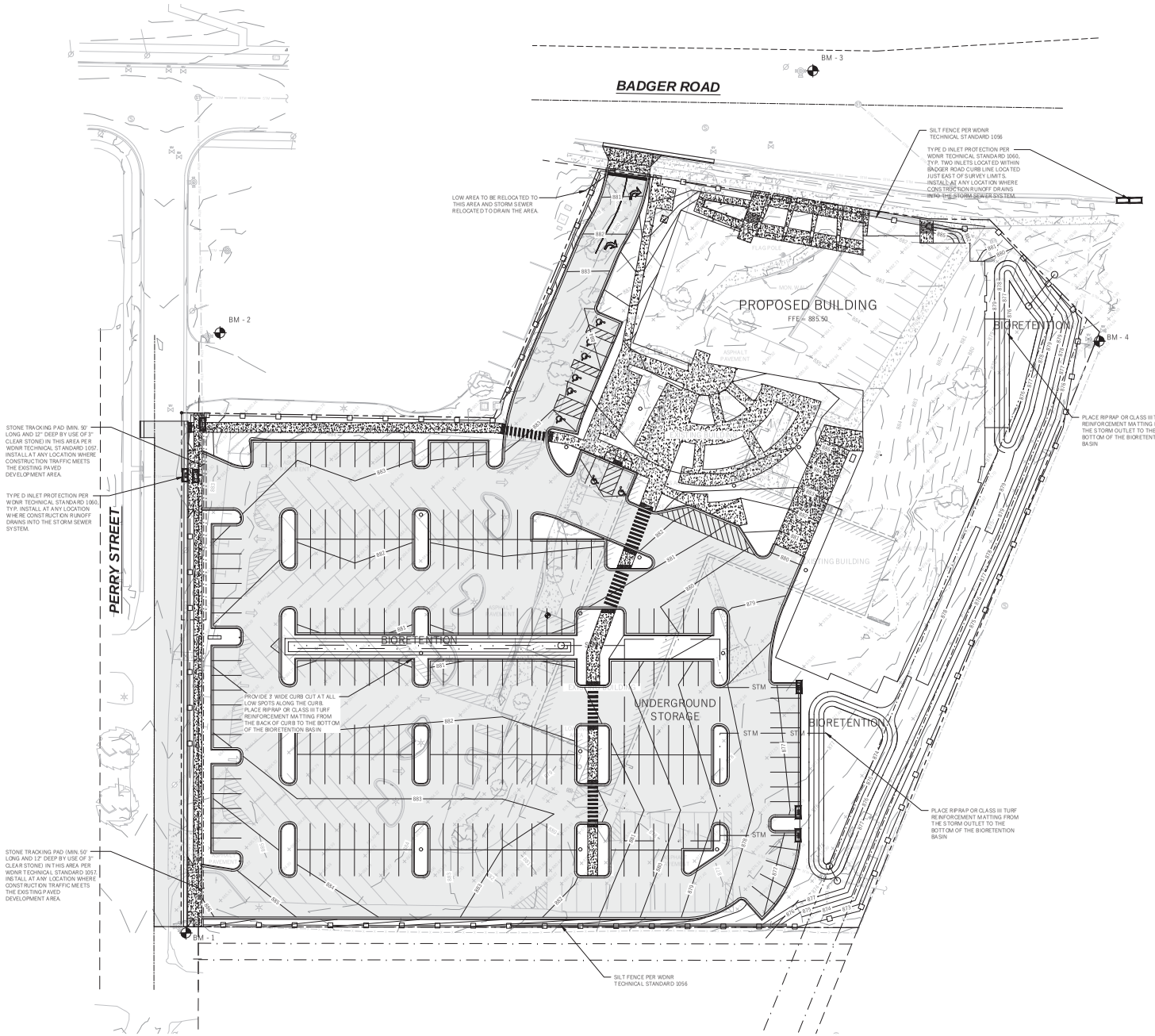

LEGEND (PROPOSED)

- PROPERTY BOUNDARY
- EASEMENT
- BUILDING FOOTPRINT
- 18" CURB AND GUTTER
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- 880 — PROPOSED MAJOR CONTOUR
- 881 — PROPOSED MINOR CONTOUR
- STM — PROPOSED STORM SEWER
- SILT FENCE
- INLET PROTECTION
- DITCH CHECK

NORTH

GENERAL NOTES

1. UNDERLYING SITE CONTOURS AND INFORMATION BASED ON TOPOGRAPHIC & UTILITY DATA AS SURVEYED BY WYSER ENGINEERING ON SEPTEMBER 8, 2017. WYSER ENGINEERING SHALL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY ARISE AS A RESULT OF ERRONEOUS OR INCOMPLETE INFORMATION PROVIDED BY OTHERS. CONTRACTOR TO CONFIRM ALL ELEVATIONS, GENERAL DRAINAGE AND EARTHWORK REQUIREMENTS PRIOR TO CONSTRUCTION.
2. THE BENCHMARK LOCATIONS ARE SHOWN FOR REFERENCE ONLY ON THIS PLAN. THE BENCHMARKS SHALL BE VALIDATED BY LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION. CONTRACTOR ASSUMES RISK ASSOCIATED WITH BENCHMARK ELEVATIONS UNTIL CONFIRMED.
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6. ALL MUNICIPAL UTILITY CONNECTIONS, WORK IN ROW, PUBLIC OUTLOTS AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE CURRENT WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS (dnr.wi.gov).
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.
3. ENGINEER / CITY OF MADISON / WDNR HAS THE RIGHT TO REQUIRE CONTRACTOR TO IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY. CONTRACTOR MUST NOTIFY THE CITY OF MADISON BUILDING INSPECTOR TWO (2) WORKING DAYS IN ADVANCE OF ANY SOIL DISTURBANCE ACTIVITIES.
4. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSPECTED ONCE PER WEEK AND FOLLOWING EACH RAINFALL EVENT. INSPECTION REPORTING SHALL BE IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION AND SEDIMENT CONTROL PRACTICES IN WORKING ORDER. EROSION CONTROL MEASURES SHALL BE REMOVED ONLY AFTER SITE CONSTRUCTION IS COMPLETE WITH ALL SOIL SURFACES HAVING AN ESTABLISHED VEGETATIVE COVER.
6. DEWATERING PRACTICES SHALL COMPLY WITH TECHNICAL STANDARD 1061.
7. DUST CONTROL SHALL BE MITIGATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068
8. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING FINAL GRADING ACTIVITIES.
9. SEED MIX AND RATE SHALL BE, AT A MINIMUM, IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059.
10. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE VEGETATION PLAN FOR ENGINEER / OWNER APPROVAL. VEGETATION PLAN AND BIORETENTION INSTALLATION SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1004.
11. CONTRACTOR TO PROVIDE SOLID LID OR METAL PLATE ON ALL OPEN MANHOLES DURING CONSTRUCTION TO MINIMIZE SEDIMENT FROM ENTERING THE STORM SEWER SYSTEM.
12. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE MUNICIPAL EROSION CONTROL PERMIT AND WDNR NOI AND FOLLOWING ALL APPLICABLE REQUIREMENTS.

GRADING, SEEDING & RESTORATION NOTES

1. ALL GRADES SHOWN ARE FINAL FINISHED SURFACE GRADES.
2. AREAS TO BE SEEDED SHALL HAVE A MINIMUM 6 INCHES TOPSOIL UNLESS OTHERWISE NOTED.
3. RESTORATION SHALL OCCUR AS SOON AS PRACTICABLE AFTER THE DISTURBANCE, WITHIN 7 DAYS OF TOPSOILING.
4. AREAS NOT RESTORED WITH EROSION MATTING OR OTHER STABILIZATION MEASURES SHALL BE STABILIZED WITH MULCH.
5. APPLY ANIONIC POLYMER TO DISTURBED AREAS IF EROSION BECOMES PROBLEMATIC.
6. INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES AND PROVIDE TEMPORARY SEEDING ON STOCKPILES WHICH ARE TO REMAIN IN PLACE FOR MORE THAN 7 DAYS.
7. CONTRACTOR SHALL CHISEL-PLOW OR DEEP TILL WITH (DOUBLE TINES THE STORMWATER MANAGEMENT FACILITY JUST PRIOR TO SEEDING AND MULCHING TO PROMOTE INFILTRATION.
8. CONTRACTOR TO DEEP TILL ALL COMPACTED PERVIOUS SURFACES PRIOR TO SEEDING AND MULCHING.
9. MULCH SHALL BE WEED-FREE STRAW AND SHALL BE INSTALLED AT THE RATE OF 2 TONS PER ACRE PER SECTION 627 OF "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" (WISDOT 2014)
10. PERMANENT SEEDING SHALL NOT OCCUR BETWEEN SEPTEMBER 15TH AND APRIL 15TH. ALTERNATE SEEDING/PLANTING METHODS AND/OR EROSION PROTECTION MAY BE NECESSARY FOR SEEDING/PLANTING THAT OCCURS DURING THAT TIME. COORDINATE WITH THE OWNER AS NECESSARY.
11. TEMPORARY STABILIZATION SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING OPTIONS:
    a. TEMPORARY SEEDING CONSISTING OF ANNUAL RYE GRASS APPLIED AT A RATE OF 1.5 LBS PER 1000 SQUARE FEET.
    b. WISDOT PAL CLASS I TYPE B URBAN EROSION CONTROL MAT.
12. ALL SLOPES EXCEEDING 5:1 SHALL USE PRESCRIPTIVE COMPLIANCE INCLUDING SLOPE INTERUPTION PER WDNR TECH. STD. 1071, SOIL STABILIZATION (PERMANENT SEEDING AND CLASS I, TYPE B EROSION MATTING ON SLOPES OR CLASS II, TYPE B MATTING IN DRAINAGE SWALES) AND LIMITING THE MAX PERIOD OF BARE SOIL TO 60 DAYS FOR LAND DISTURBANCE BETWEEN SEPTEMBER 16 AND MAY AND 30 DAYS FOR LAND DISTURBANCE BETWEEN MAY 2 AND SEPTEMBER 15.

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MADISON, WI 53713

MADISON COLLEGE - SOUTH CAMPUS
CITY OF MADISON, DANE COUNTY, WI

Sheet Title: GRADING & EROSION CONTROL PLAN

Revisions:

No.	Date:	Description:

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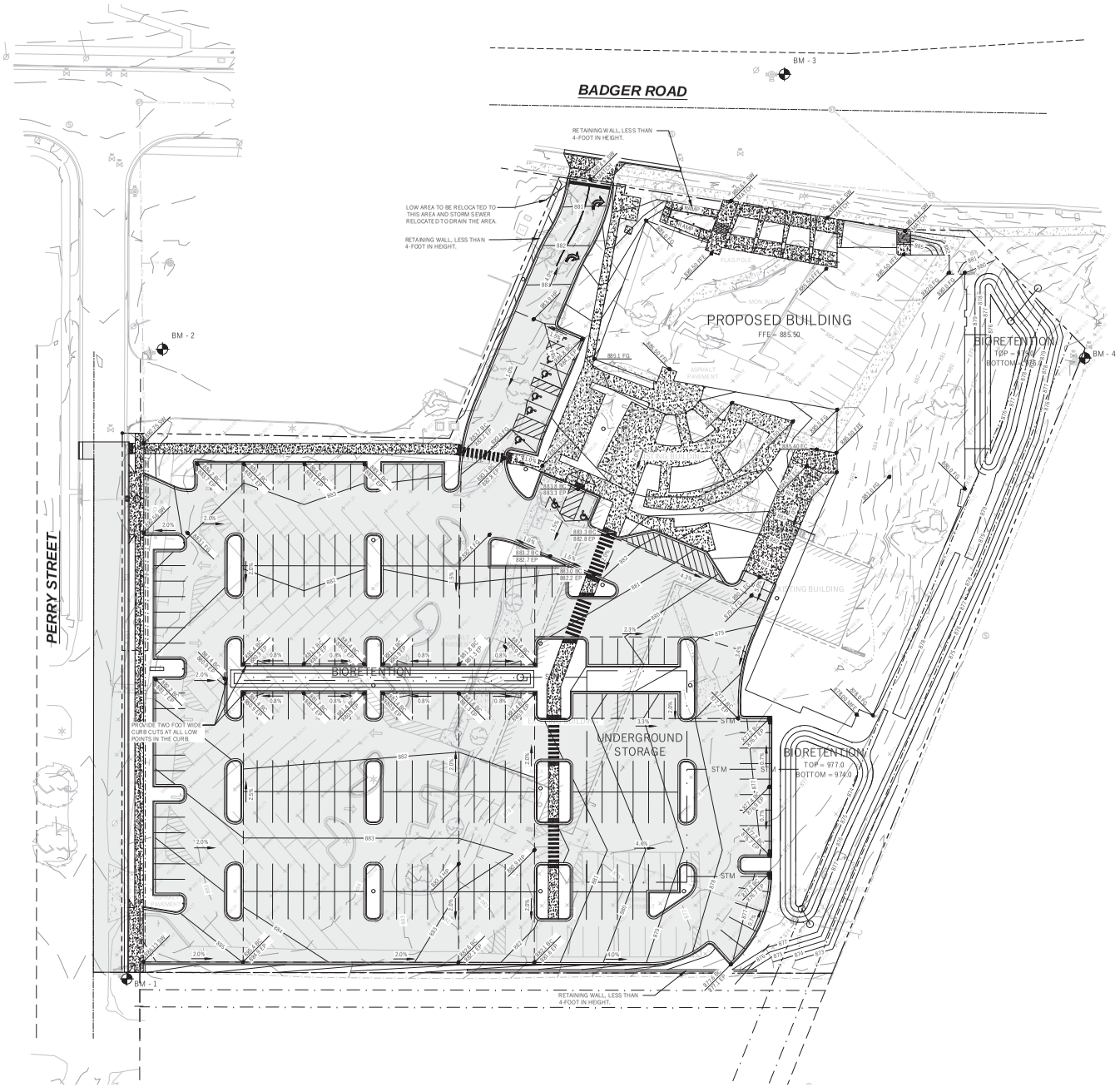

LEGEND (PROPOSED)

- PROPERTY BOUNDARY
- EASEMENT
- BUILDING FOOTPRINT
- 18" CURB AND GUTTER
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- 880 — PROPOSED MAJOR CONTOUR
- 882 — PROPOSED MINOR CONTOUR
- STM — PROPOSED STORM SEWER
- 881.25 EP — SPOT GRADE
- DRAINAGE GRADE BREAK
- 1.0% — DRAINAGE ARROW

NORTH

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MADISON COLLEGE - SOUTH CAMPUS

CITY OF MADISON, DANE COUNTY, WI

Sheet Title:
DETAIL GRADING PLAN

Revisions:

No.	Date:	Description:

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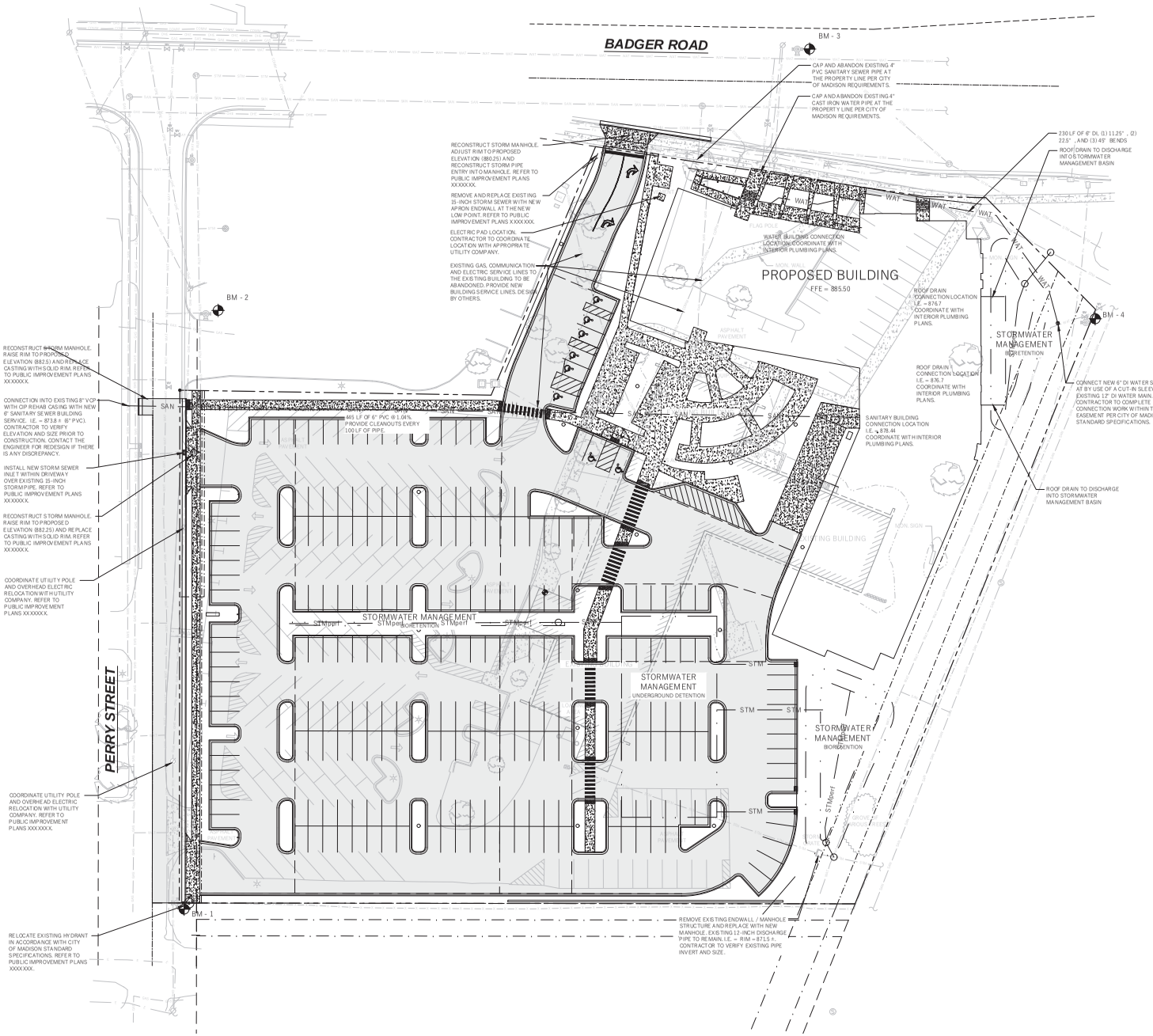

LEGEND (PROPOSED)

- PROPOSED PROPERTY BOUNDARY
- EASEMENT
- BUILDING FOOTPRINT
- 18" CURB AND GUTTER
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- WAT — PROPOSED WATER MAIN
- SAN — PROPOSED SANITARY SEWER
- STM — PROPOSED STORM SEWER
- GAS — PROPOSED GAS SERVICE (DESIGN BY OTHERS)
- E — PROPOSED ELECTRIC SERVICE (DESIGN BY OTHERS)
- STORMWATER TREATMENT FACILITY
- DRAINAGE GRADE BREAK
- 10% — DRAINAGE ARROW

NORTH

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UTILITY NOTES

1. DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
2. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY ALL ELEVATIONS, LOCATIONS, AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS.
4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH ENGINEERING PLANS DESIGNED TO MEET ORDINANCES AND REQUIREMENTS OF THE MUNICIPALITY AND WISDOT, WISDSPS, AND WDNR.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR:
   - EXAMINING ALL SITES CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
   - OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
   - VERIFYING UTILITY ELEVATIONS AND NOTIFYING ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
   - NOTIFYING ALL UTILITIES PRIOR TO THE INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
   - NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
10. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE. NO BLASTING IS ALLOWED WITHIN 30 FEET OF EXISTING UTILITIES.
11. ALL PRIVATE INTERCEPTOR WATER MAIN AND WATER SERVICES SHALL BE INSTALLED WITH A 6' MINIMUM BURY. PROVIDE INSULATION ABOVE PIPES WITH LESS THAN 5' OF GROUND COVER.
12. GRANULAR BACKFILL MATERIALS ARE REQUIRED IN ALL UTILITY TRENCHES UNDER SIDEWALKS AND PROPOSED PAVED AREAS (UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL ENGINEER). ALL UTILITY TRENCH BACKFILL SHALL BE COMPACTED PER SPECIFICATIONS. ALL PAVEMENT PATCHING SHALL COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS. ADDITIONAL PAVEMENT MILLING AND OVERLAY MAY BE REQUIRED BY PERMIT.
13. CONTRACTOR SHALL NOTIFY THE MUNICIPAL PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS BEFORE CONNECTING TO PUBLIC UTILITIES.
14. ALL NON-METALLIC BUILDING SEWER AND WATER SERVICES MUST BE ACCOMPANIED BY MEANS OF LOCATING UNDERGROUND PIPE. TRACER WIRE VALVE BOXES SHALL BE INSTALLED ON ALL LATERALS AND AS INDICATED ON THESE PLANS.
15. ALL EXTERIOR CLEANOUTS SHALL BE PROVIDED WITH A FROST SLEEVE IN ACCORDANCE WITH SPS 382.34(5) (a)b AND SPS 384.30(2)(c).
16. ALL PRIVATE SANITARY BUILDING SEWER PIPE AND TUBING SHALL CONFORM TO SPS 384.30-3.
17. ALL PRIVATE STORM BUILDING PIPE AND TUBING SHALL CONFORM TO SPS 384.30-6.
18. ALL PRIVATE PIPE AND TUBING FOR WATER SERVICE SHALL CONFORM TO SPS 384.30-7.
19. ALL PRIVATE PIPE SHALL BE INSTALLED PER SPS 384.40-8 INCLUDING AT LEAST 8' OF HORIZONTAL DISTANCE BETWEEN WATER PIPING AND SANITARY SEWER FROM CENTER OF PIPE TO CENTER OF PIPE AND 6' OF SEPARATION BETWEEN STORM SEWER AND WATER PIPING.
20. THE CONTRACTOR SHALL ALLOW 10 WORKING DAYS FOR THE CONSTRUCTION OF GAS MAINS WHEN SCHEDULING THE WORK AND SHALL NOT RESTRICT ACCESS TO THE GAS MAIN CONTRACTOR OR OTHER UTILITY COMPANIES.
21. INLET CASTINGS SHALL BE SET TO GRADE PRIOR TO AND SEPARATE FROM THE POURING OF THE CONCRETE CURB AND GUTTER. IS IS REQUIRED THAT THREE FEET OF CONCRETE CURB AND GUTTER ON EACH SIDE OF THE INLET SHALL BE POURED BY HAND, NOT THROUGH THE USE OF A CURB MACHINE. THE INLET CASTING SHALL BE SET TO GRADE ON A BED OF MORTAR WHICH SHALL BE A MINIMUM OF TWO INCHES THINK. THE INLET SHALL BE PLACED ON THE MORTAR BED AND SHALL BE ADJUSTED TO GRADE BY APPLYING DIRECT PRESSURE TO THE CASTING. ONCE THE CASTING ADJUSTMENT IS COMPLETE, THREE FEET OF CURB AND GUTTER ON EACH SIDE OF THE CASTING SHALL BE POURED BY HAND.
22. THE CURB INLET SHALL HAVE A CATCH-ALL HR-I OIL AND GREASE FILTER OR APPROVED EQUIVALENT INSTALLED WITHIN THEM.
23. NO BLASTING SHALL OCCUR WITHIN 30 FEET OF ANY EXISTING UTILITIES
24. CONTRACTOR SHALL VERIFY AND COORDINATE ALL UTILITY CONNECTIONS WITH THE BUILDING PRIOR TO CONSTRUCTION.
25. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO BE IN CONFORMANCE WITH THE CITY OF MADISON EROSION CONTROL AND STORMWATER ORDINANCE, AND DNR ADMINISTRATIVE RULE NR 216 AT ALL TIMES.

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WYSER ENGINEERING

MADISON AREA TECHNICAL COLLEGE
801 WEST BADGER ROAD
MADISON, WI 53713

MADISON COLLEGE - SOUTH CAMPUS
CITY OF MADISON, DANE COUNTY, WI

Sheet Title: UTILITY PLAN

Revisions:

No.	Date:	Description:

Graphic Scale: 0' 15' 30' 45'

Wyser Number	17–0407
Set Type	UDC
Date Issued	11/21/2017
Sheet Number	C300

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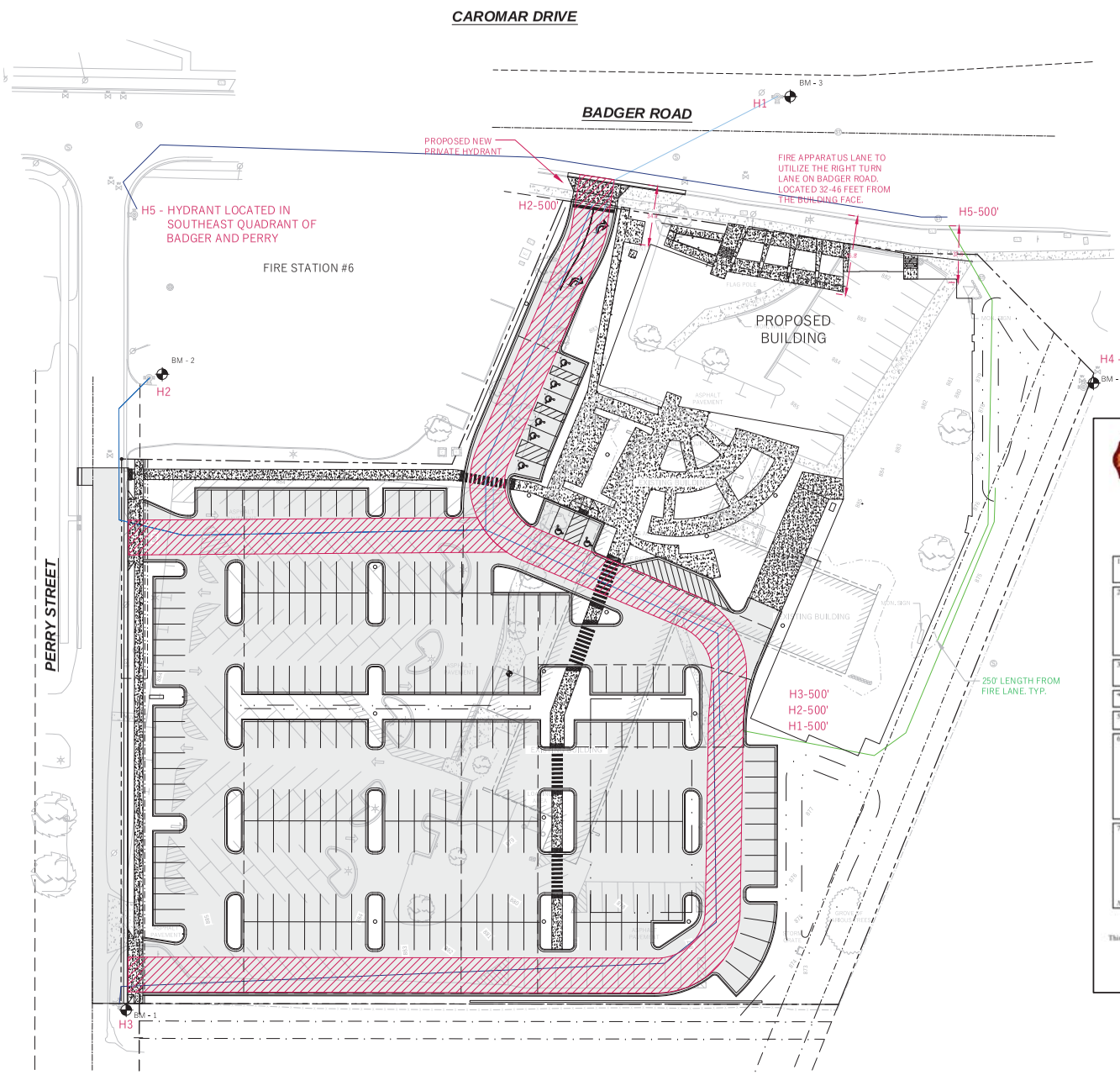

LEGEND (PROPOSED)

- PROPERTY BOUNDARY (APPROXIMATE)
- EASEMENT
- BUILDING FOOTPRINT
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT

NORTH

GENERAL NOTES

1. UNDERLYING SITE CONTOURS AND INFORMATION BASED ON TOPOGRAPHIC & UTILITY DATA AS SURVEYED BY WYSER ENGINEERING ON SEPTEMBER 8, 2017. WYSER ENGINEERING SHALL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY ARISE AS A RESULT OF ERRONEOUS OR INCOMPLETE INFORMATION PROVIDED BY OTHERS. CONTRACTOR TO CONFIRM ALL ELEVATIONS, GENERAL DRAINAGE AND EARTHWORK REQUIREMENTS PRIOR TO CONSTRUCTION.
2. THE BENCHMARK LOCATIONS ARE SHOWN FOR REFERENCE ONLY ON THIS PLAN. THE BENCHMARKS SHALL BE VALIDATED BY LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION. CONTRACTOR ASSUMES RISK ASSOCIATED WITH BENCHMARK ELEVATIONS UNTIL CONFIRMED.
3. CONTRACTOR TO OBTAIN APPROPRIATE PERMITS FOR STREET OPENINGS & TO WORK WITHIN THE CITY'S LAND IF REQUIRED.
4. WYSER ENGINEERING SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER OR CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY REGULATORY AGENCIES.
5. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WITHIN THE PLAN BECOME APPARENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
6. ALL MUNICIPAL UTILITY CONNECTIONS, WORK IN ROW, PUBLIC OUTLOTS AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

City of Madison Fire Department

314 W Dayton Street, Madison, WI 53703-2506
Phone: 608-266-4420 • Fax: 608-267-1100 • E-mail: fire@cityofmadison.com

Project Address: 801 W. BADGER RD.
Contact Name & Phone #: KIRK KELLER - 608.478.4013

FIRE APPARATUS ACCESS AND FIRE HYDRANT WORKSHEET

1. Is the building completely protected by an NFPA 13 or 13R automatic fire sprinkler system?	☒ Yes	☐ No	☐ N/A
If non-sprinklered, fire lanes extend to within 150-feet of all portions of the exterior wall?	☐ Yes	☐ No	☒ N/A
If sprinklered, fire lanes are within 250-feet of all portions of the exterior wall?	☒ Yes	☐ No	☐ N/A
2. Is the fire lane constructed of concrete or asphalt, designed to support a minimum load of 85,000 lbs?	☒ Yes	☐ No	☐ N/A
a) Is the fire lane a minimum unobstructed width of at least 20-feet?	☒ Yes	☐ No	☐ N/A
b) Is the fire lane unobstructed with a vertical clearance of at least 13½-feet?	☒ Yes	☐ No	☐ N/A
c) Is the minimum inside turning radius of the fire lane at least 28-feet?	☒ Yes	☐ No	☐ N/A
d) Is the grade of the fire lane not more than a slope of 8%?	☒ Yes	☐ No	☐ N/A
e) Is the fire lane posted as fire lane? (Provide detail of signage.)	☐ Yes	☐ No	☒ N/A
f) Is a roll-able curb used as part of the fire lane? (Provide detail of curb.)	☐ Yes	☐ No	☒ N/A
g) Is part of a sidewalk used as part of the required fire lane? (Must support +85,000 lbs.)	☐ Yes	☒ No	☐ N/A
3. Is the fire lane obstructed by security gates or barricades? If yes:	☐ Yes	☐ No	☒ N/A
a) Is the gate a minimum of 20-feet clear opening?	☒ Yes	☐ No	☐ N/A
b) Is an approved means of emergency operations installed, key vault, padlock or key switch?	☐ Yes	☒ No	☐ N/A
4. Is the Fire lane dead-ended with a length greater than 150-feet?	☐ Yes	☒ No	☐ N/A
If yes, does the area for turning around fire apparatus comply with IFC D103?	☐ Yes	☐ No	☒ N/A
5. Is any portion of the building to be used for high-piled storage in accordance with IFC Chapter 3206.6 If yes, see IFC 3206.6 for further requirement.	☐ Yes	☒ No	☐ N/A
6. Is any part of the building greater than 30-feet above the grade plane?	☒ Yes	☐ No	☐ N/A
If yes, answer the following questions: REFER TO GRAPHIC (28% NOW 21% WITH ADDITION)			
a) Is the aerial apparatus fire lane parallel to one entire side of the building and covering at least 25% of the perimeter? REFER TO GRAPHIC (32' TO 46')	☐ Yes	☒ No	☐ N/A
b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building?	☐ Yes	☒ No	☐ N/A
c) Are there any overhead power or utility lines located across the aerial apparatus fire lane?	☐ Yes	☒ No	☐ N/A
d) Are there any tree canopies expected to grow across the aerial fire lane? (Based on mature canopy width of tree species)	☐ Yes	☒ No	☐ N/A
e) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet?	☒ Yes	☐ No	☐ N/A
f) Is the space between the aerial lane and the building free of types exceeding 20' in heights?	☒ Yes	☐ No	☐ N/A
7. Are all portions of the required fire lanes within 500-feet of at least (2) hydrants?	☒ Yes	☐ No	☐ N/A
Note: Distances shall be measured along the path of the hose lay as it comes off the fire apparatus.			
a) Is the fire lane at least 26' wide for at least 20-feet on each side of the hydrant?	☒ Yes	☐ No	☐ N/A
b) Is there at least 40' between a hydrant and the building?	☒ Yes	☐ No	☐ N/A
c) Are the hydrant(s) setback no less than 5-feet nor more than 10-feet from the curb or edge of the street or fire lane?	☒ Yes	☐ No	☐ N/A
d) Are hydrants located in parking lot islands a minimum of 3½-feet from the hydrant to the curb?	☐ Yes	☐ No	☒ N/A
e) Are there no obstructions, including but not limited to: power poles, trees, bushes, fences, posts located, or grade changes exceeding 1½-feet, within 5-feet of a fire hydrant?	☒ Yes	☐ No	☐ N/A
Note: Hydrants shall be installed and in-service prior to combustible construction on the project site.			

Attach an additional sheet if further explanation is required for any answers.

This worksheet is based on **MGO 34.503** and **IFC 2015 Edition Chapter 5 and Appendix D**; please see the codes for further information.

Revised 12/12/2016

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MADISON COLLEGE - SOUTH CAMPUS

CITY OF MADISON, DANE COUNTY, WI

Sheet Title: FIRE PLAN

Revisions:

No.	Date:	Description:

Graphic Scale: 0' 15' 30' 45'

Wyser Number	17–0407
Set Type	UDC
Date Issued	11/21/2017
Sheet Number	F100

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Sheet No: 17043301

Author: Author

Date: 11/15/17

LOWER LEVEL PLAN

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TRUE NORTH

PLAN NORTH

FIRST FLOOR PLAN

1/16" = 1'-0"

0 4 8 16 32

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

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Date:	11/15/17
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Sheet No.:	1st

FIRST FLOOR PLAN

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SECOND FLOOR PLAN

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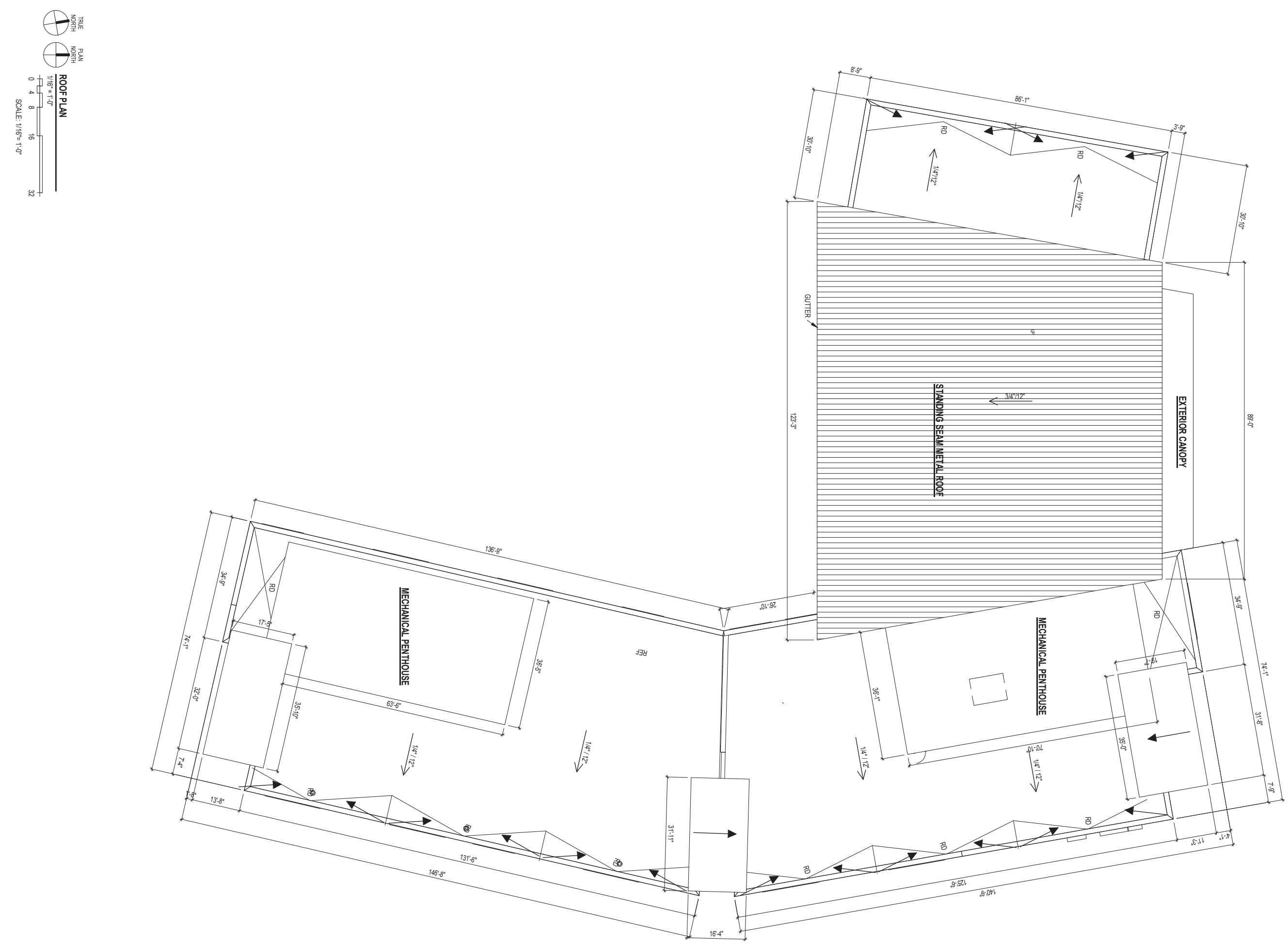

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Sheet No.:	R

ROOF PLAN

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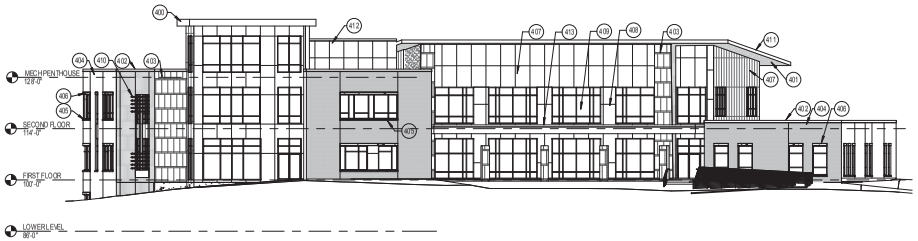
OVERALL EAST ELEVATION

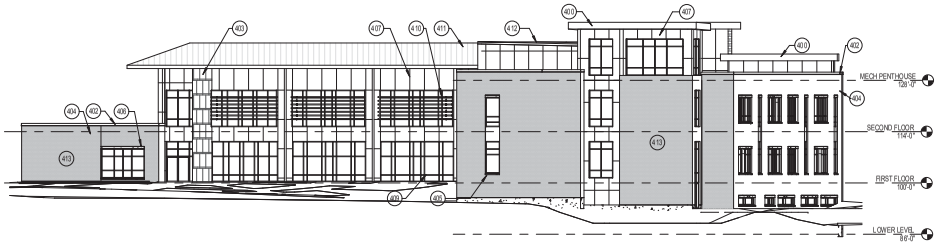
0 3 5 11 21
SCALE: 3/32"= 1'-0"

EXTERIOR ELEVATION NOTES	
NOTE #	EXTERIOR ELEVATION NOTE
400	METAL FASCIA PANEL
401	METAL SOFFIT PANEL
402	METAL COPING
403	STONE VENEER
404	BRICK VENEER
405	PRECAST STONE SILL
406	PRECAST STONE LINTEL
407	METAL WALL PANEL, COLOR 1
408	METAL WALL PANEL, COLOR 2
409	ALUMINUM CURTAIN WALL
410	SUN SHADE
411	STANDING SEAM METAL ROOF
412	MECHANICAL PENTHOUSE
413	AREA DEDICATED FOR BUILDING SIGNAGE, TO BE DETERMINED AT A LATER DATE.



OVERALL NORTH ELEVATION

0 3 5 11 21
SCALE: 3/32"= 1'-0"



OVERALL SOUTH ELEVATION

0 3 5 11 21
SCALE: 3/32"= 1'-0"

OVERALL WEST ELEVATION

0 3 5 11 21
SCALE: 3/32"= 1'-0"

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OVERALL ELEVATIONS - BLACK AND WHITE

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Job No: 17014-3-01
Sheet No.:

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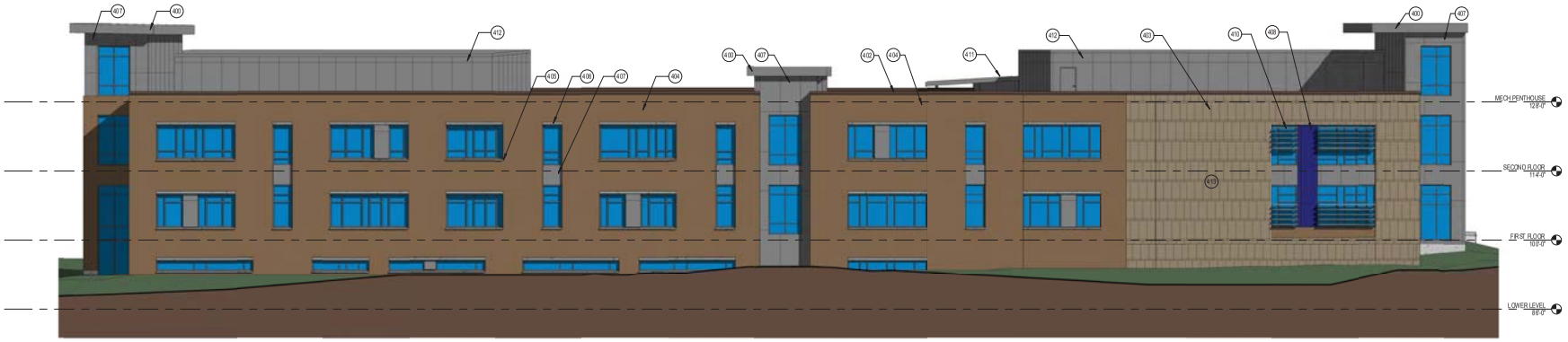

OVERALL EAST ELEVATION

0 2 4 8 16

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

OVERALL NORTH ELEVATION

0 2 4 8 16

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

EXTERIOR ELEVATION NOTES	
NOTE #	EXTERIOR ELEVATION NOTE
400	METAL FASCIA PANEL
401	METAL SOFFIT PANEL
402	METAL COPING
403	STONE VENEER
404	BRICK VENEER
405	PRECAST STONE SILL
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409	ALUMINUM CURTAIN WALL
410	SUN SHADE
411	STANDING SEAM METAL ROOF
412	MECHANICAL PENTHOUSE
413	AREA DEDICATED FOR BUILDING SIGNAGE, TO BE DETERMINED AT A LATER DATE.

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OVERALL ELEVATIONS - COLOR

Date: 11/15/17

Job No: 17014-301

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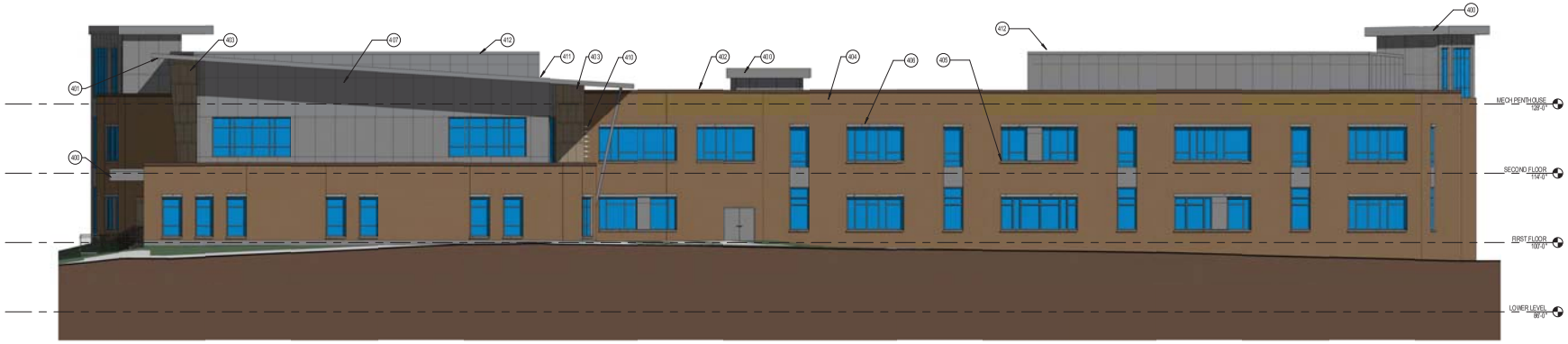
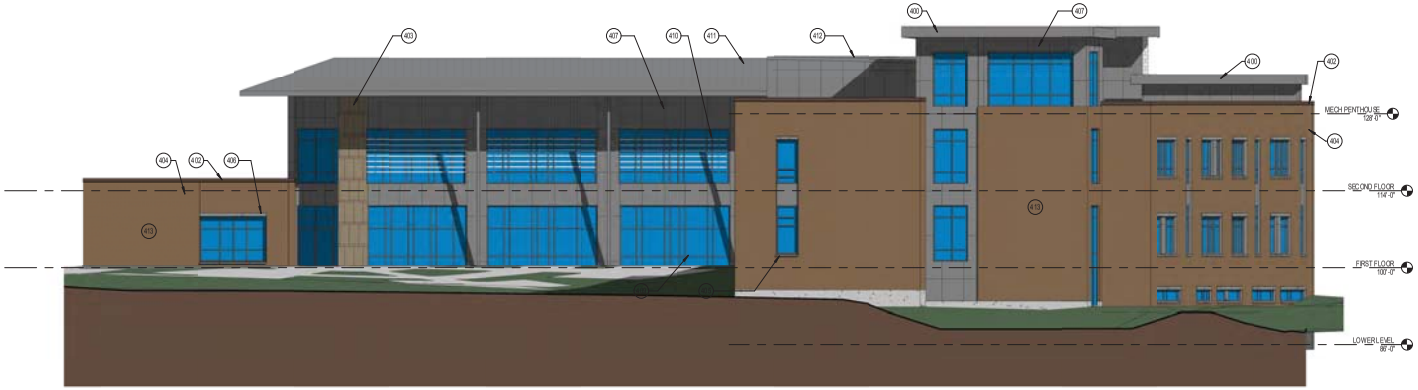


OVERALL WEST ELEVATION

0 2 4 8 16

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



OVERALL SOUTH ELEVATION

0 2 4 8 16

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

EXTERIOR ELEVATION NOTES	
NOTE #	EXTERIOR ELEVATION NOTE
400	METAL FASCIA PANEL
401	METAL SOFFIT PANEL
402	METAL COPING
403	STONE VENEER
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412	MECHANICAL PENTHOUSE
413	AREA DEDICATED FOR BUILDING SIGNAGE. TO BE DETERMINED AT A LATER DATE.

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OVERALL ELEVATIONS - COLOR

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Job No: 17014-3-0.1

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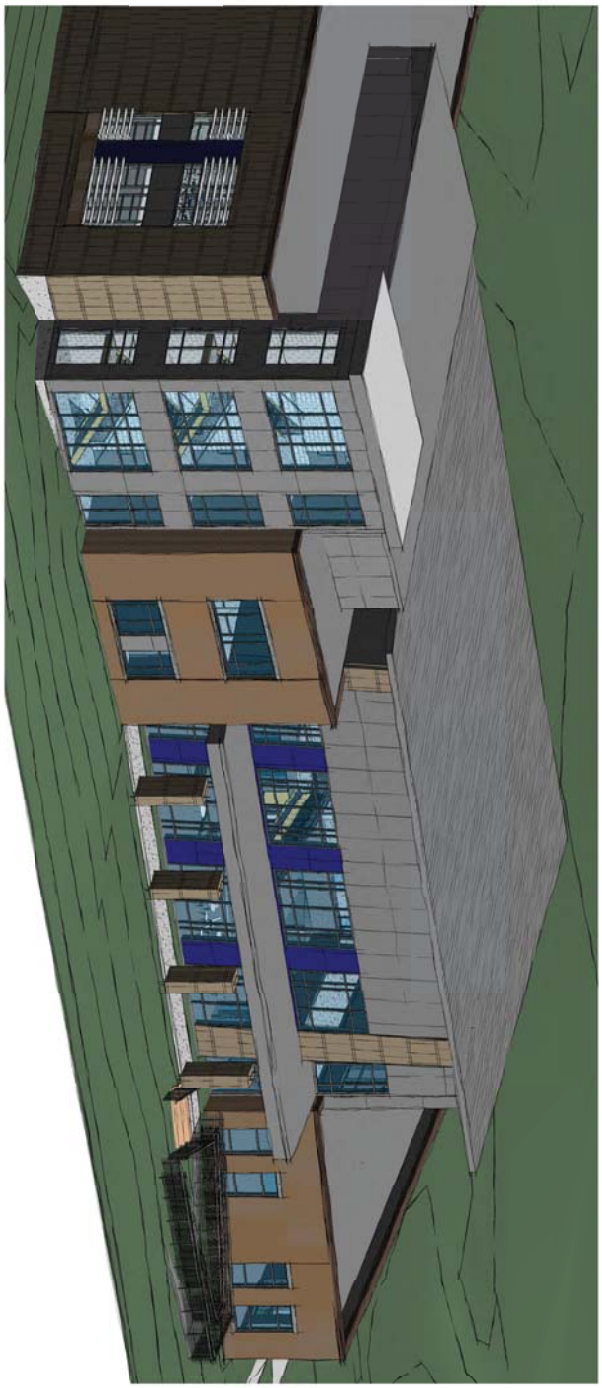

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RENDERINGS

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Colored Site Plan

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Job No: 17_PRA_01

Sheet No.: L100

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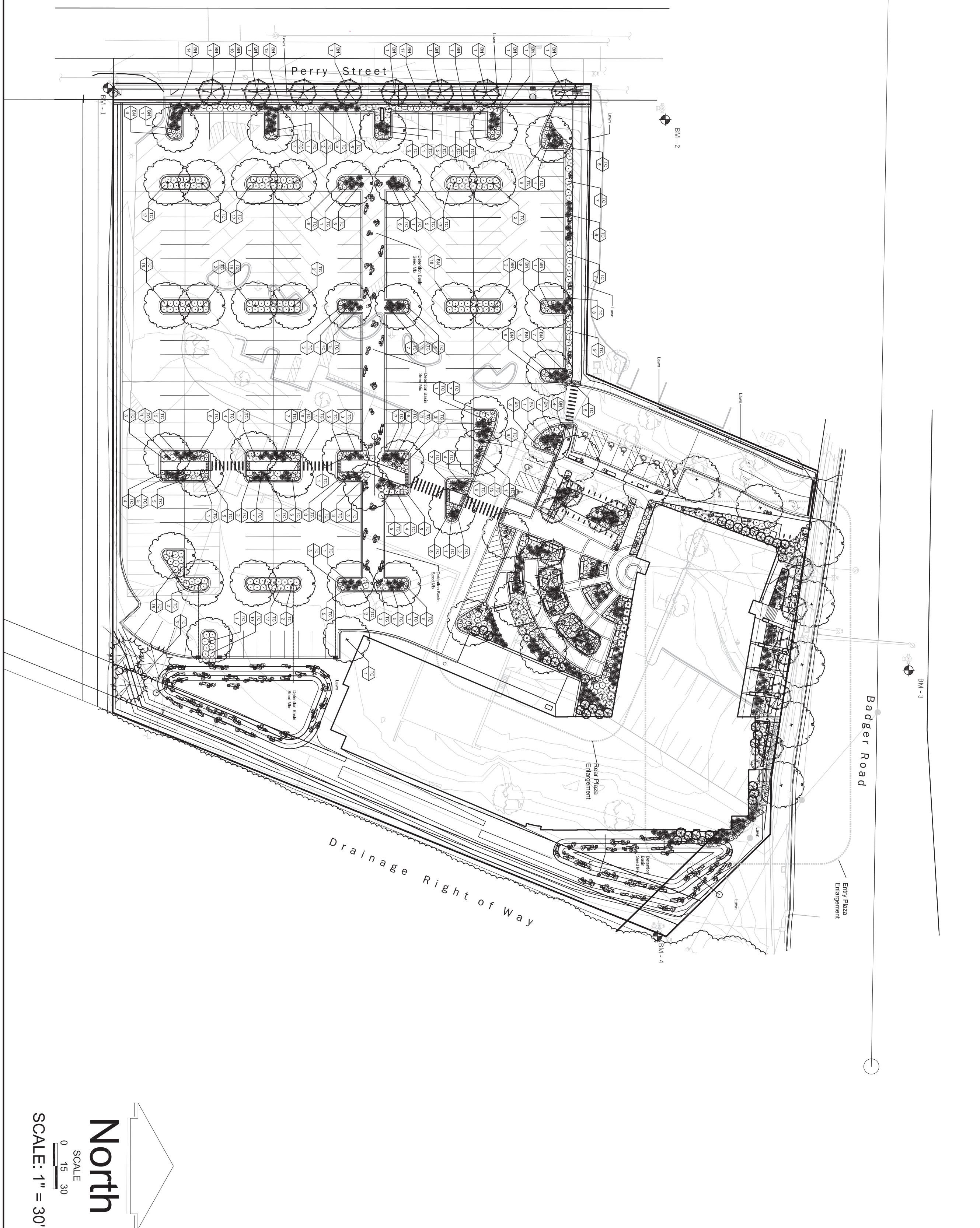

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Sheet No.:	L101
Job No:	17_PRA_01
Date:	17_1121
	Landscape Plan
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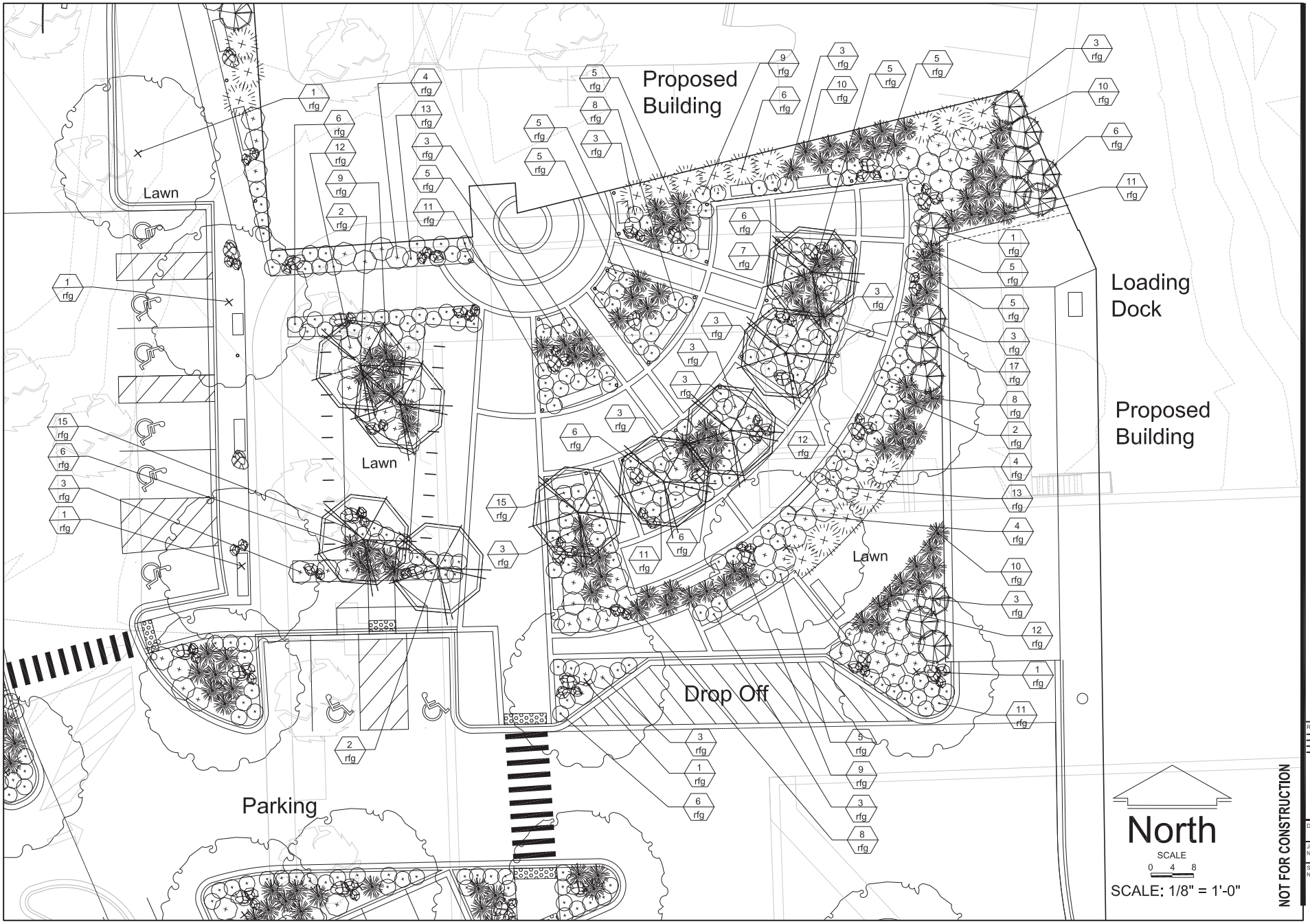
Entry Enlargement Landscape Plan

Date: 17_1121

Job No: 17_PRA_01

Sheet No.: L102



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Revisions:

Rear Entry Enlargement Landscape Plan

Date: 17_1120

Job No: 17_PRA_01

Sheet No.: L103

LANDSCAPE PLANT LEGEND

Symbol	Botanical name	Common Name	Size	Root	Quantity	Remarks
SHADE TREES						
CE	Celtis occidentalis	Common Hackberry	3" Cal.	B&B		
CO	Carya ovata	Shagbark Hickory	3" Cal.	B&B		
FG	Fagus grandifolia	American Beech	3" Cal.	B&B		Multi-stem Tree 3 Trunks- Min 1 1/2" Cal.
GB	Ginko biloba	Ginko Tree	3" Cal.	B&B		
GD	Gymnocladus dioicus	Kentucky Coffeetree	3" Cal.	B&B		
PA	Platanus x acerfolia	American Sycamore	3" Cal.	B&B		
QB	Quercus bicolor	Swamp White Oak	3" Cal.	B&B		
QM	Quercus macrocarpa	Bur Oak	3" Cal.	B&B		
QR	Quercus rubra	Red Oak	3" Cal.	B&B		
TT	Tilia tomentosa	Silver Linden	3" Cal.	B&B		
UP	Ulmus x 'Pioneer'	Pioneer Elm	3" Cal.	B&B		
EVERGREEN TREES						
PG	Picea glauca	White Spruce	6' - 8' HT.	B&B		
PM	Pseudotsuga menziesii	Douglas Fir	6' - 8' HT.	B&B		
PN	Pinus nigra	Austrian Pine	6' -8' HT.	B&B		
PS	Pinus strobus	Eastern White Pine	6' -8' HT.	B&B		
TC	Tsuga canadensis	Canadian Hemlock	4' -6' HT.	B&B		
ORNAMENTAL TREES						
AC	Amelanchier canadensis	Shadblow Serviceberry	5-6' HT.	B&B		
CC	Carpinus caroliniana	American Hornbeam (Musclewood)	2"-3"Cal.	B&B		
CA	Cornus alternifolia	Pagoda Dogwood	5-6' HT.	B&B		
CK	Cornus kousa	Kousa Dogwood	5-6' HT.	B&B		
CI	Crataegus crus-galli var.inermis	Thornless Cockspur Hawthorn	2" Cal.	B&B		
OV	Ostrya virginiana	American Hophornbean	2"-3" Cal.	B&B		
PV	Prunus virginiana 'Schubert'	Canada Red Chokecherry	2" Cal.	B&B		
VL	Viburnum lentago	Nannyberry Viburnum	2" Cal.	B&B		
VP	Viburnum prunifolium	Blackhaw Viburnum	6-8' HT.	B&B		Multi-stem Tree, 3 Trunks- Min 1" Cal.
SHRUBS						
Cc	Caryopteris x clandonensis Arthur Simmonds	Arthur Simmonds Caryopteris	3 gal	Pot		
Cf	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	2 Gal.	CG		
Fs	Forsythia x 'Sunrise'	Sunrise Forsythia	3 gal	Pot		
Hk	Hypericum kalmianum	St. Johns Wort	3 gal	Pot		
Kj	Kerria Japonica	Japenese Kerria	2 gal.	Pot		
Pa	Pennisetum alopecuroides 'Hamelin'	Dwarf Fountain Grass	2 Gal.	CG		
Pv	Panicum virgatum 'Shenandoah'	Shenandoah Swith Grass	2 Gal.	CG		
Ra	Rhus aromatica 'Grow Low'	'Gro low' Sumac	2 gal	Container		
Rg	Rhus glabara	Smooth Sumac	5 gal	Pot		
Vj	Viburnum x juddii	Judd Viburnum	5 gal	B&B		
Vt	Viburnum trilobum	American Cranberrybush Viburnum	5 gal	B&B		

EVERGREEN SHRUBS						
Iv	Ilex verticillata	Winterberry	5 Gal.	CG		
Jr	Juniperus ramiosa	Ramiosa juniper	5 Gal.	CG		
Tm	Taxus tauntonii	Taunton yew	5 Gal.	CG		
PERENNIALS						
abs	Amsonia 'Blue Starflower'	Blue Starflower	1 Gal.	Container		30"O.C.
aaf	Astilbe x arendsii 'Fanal'	Fanal Astilbe	1 Gal.	Container		15"O.C.
apd	Aster novae-angliae 'Purple Dome'	Purple Dome	1 Gal.	Container		24"O.C.
asr	Aster novae-angliae 'September Ruby'	September Ruby Aster	1 Gal.	Container		24"O.C.
bec	Bergenia cordifolia	Heartleaf Bergenia	1 Gal.	Container		15"O.C.
cca	Catananche caerulea	Cupids Dart	1 Gal.	Container		12"O.C.
cvz	Coreopsis verticillata 'Zagreb'	Zagreb Coreopsis	1 Gal.	Container		18"O.C.
epm	Echinacea purpurea 'Magnus'	Magnus Purple Coneflower	1 Gal.	Container		36"O.C.
ise	Iberis sempervirens	Candytoft	1 Gal.	Container		15"O.C.
lpy	Liatrus pyncostachya	Prairie Blazingstar	1 Gal.	Container		18"O.C.
lla	Limonium latifolium	Sea Lavender	1 Gal.	Container		24"O.C
mpd	Monarda 'Petite Delight'	Petite Delight Beebalm	1 Gal.	Container		24"O.C
rfg	Rudbeckia fulgida 'Goldstrum'	Goldstrum Black-eyed Susan	1 Gal.	Container		18"O.C.

Detention Basin Seed Mix

The species in this mix designsed by Prairie Nursery of Westfield,Wisconsin (or approved equal) grow naturally in medium-moist prairies, making them the perfect for temporarily flooded areas that also dry out in summer. Designed for planting in basins that are flooded for 24-48 hours, and then drain out. This mix is particularly well adapted to loamy and clay soils. For detention basins in sandy soils, we recommend planting our Tall Prairie for Dry Soils Seed Mix.

WILDFLOWERS: Nodding Pink Onion, Red Milkweed, New England Aster, White False Indigo, Pale Indian Plantain, Wild Senna, Joe Pye Weed, Boneset, Dogtooth Daisy, Ox Eye Sunflower, Wild Iris, Blue Flag Iris, Prairie Blazingstar, Dense Blazingstar, Great Blue Lobelia, Bergamot, Yellow Coneflower, Black Eyed Susan, Sweet Black Eyed Susan, Brown Eyed Susan, Rosinweed, Cupplant, Prairie Dock, Ohio Goldenrod, Stiff Goldenrod, Blue Vervain, Ironweed, Golden Alexanders

GRASSES: Big Bluestem, Bebb's Sedge, Bottlebrush Sedge, Porcupine Sedge, Awl Fruited Sedge, Fox Sedge, Canada Wild Rye, Virginia Wild Rye, Switchgrass, Dark Green Bulrush, Indiangrass, Prairie Cordgrass, Annual Rye Nurse Crop

Contains at least 20 wildflowers and 8 or more grasses, sedges & bulrushes, plus annual rye

Madison

CITY OF MADISON LANDSCAPE WORKSHEET

Section 28.142 Madison General Ordinance

Project Location / Address 801 Badger Road, Madison, WI 53713
Name of Project Madison College South Campus
Owner / Contact Mike Stark
Contact Phone _____ Contact Email MStark@madisoncollege.edu

**** Landscape plans for zoning lots greater than ten thousand (10,000) square feet in size MUST be prepared by a registered landscape architect. ****

Landscape Calculations and Distribution

Required landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as all parts of the site that are not left in a natural state within a single contiguous boundary, including building footprints, parking and loading areas, driveways, internal sidewalks, patios, and outdoor activity areas. Developed area does not include other land within required setbacks and natural areas on the same property that are left undisturbed.

(a) One (1) landscape unit shall be provided for each three hundred (300) square feet of developed area, with the exception of the IL and the IG districts as specified in (b) below.

Total square footage of developed area 194,683

Developed area divided by three hundred (300) square feet = 649 **Landscape Units**

(b) Within the Industrial – Limited (IL) and Industrial – General (IG) districts, one (1) landscape unit shall be provided for every six hundred (600) square feet of developed area.

Total square footage of developed area _____

Developed area divided by six hundred (600) square feet = _____ **Landscape Units**

(c) One landscape unit consists of five (5) landscape points. Landscape points are calculated as shown in the following table.

Landscape units multiplied by five (5) landscape points = 3245 **Total Points Required**

Tabulation of Points and Credits

Use the table to indicate the quantity and points for all existing and proposed landscape elements. **Calculations yielding a fraction up to one-half (1/2 or 0.5) shall be rounded down to the nearest whole number; fractions of more than one half (1/2) shall be rounded up.**

Plant Type/ Element	Minimum Size at Installation	Points	Credits/ Existing Landscaping		New/ Proposed Landscaping	
			Quantity	Points Achieved	Quantity	Points Achieved
Overstory deciduous tree	2½ inch caliper	35			51	1785
Ornamental tree	1 1/2 inch caliper	15			22	330
Evergreen tree	3 feet tall	15			3	45
Shrub, deciduous	18" or 3 gallon container size	2			356	1068
Shrub, evergreen	18" or 3 gallon container size	3			18	54
Ornamental grasses	18" or 3 gallon container size	2			277	554
Ornamental/ decorative fencing or wall	n/a	4 per 10 lineal ft.				
Sub Totals						3836

Total Number of Points Provided 3836

3/2013 1

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MADISON AREA TECHNICAL COLLEGE

Madison College South Campus Project
801 W Badger Road, Madison, Wisconsin 53713

Revisions:

Plant Schedule and Points Sheet

Date: 17_1120
Job No: 17_PRA_01
Sheet No.: L104

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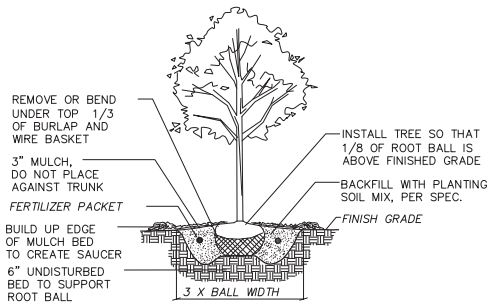
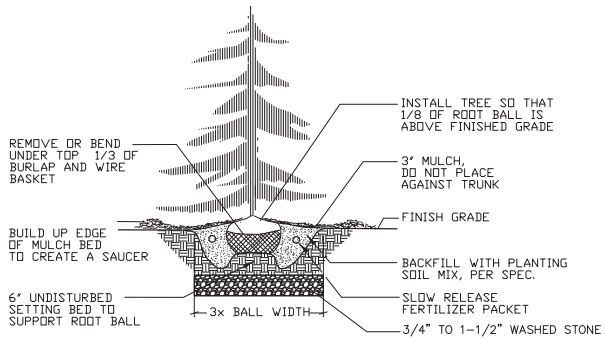
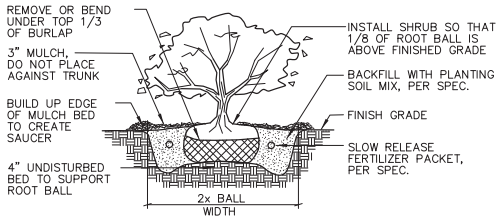


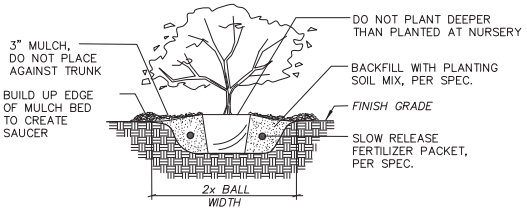
1 L105 B&B TREE PLANTING DETAIL NTS



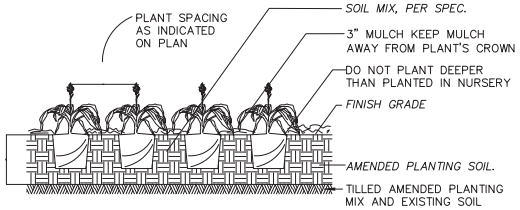
2 L105 B&B EVERGREEN TREE PLANTING DETAIL NTS



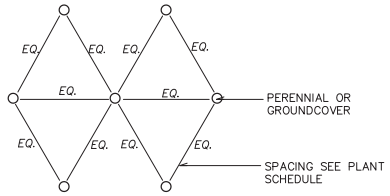
3 L105 B&B SHRUB PLANTING DETAIL NTS



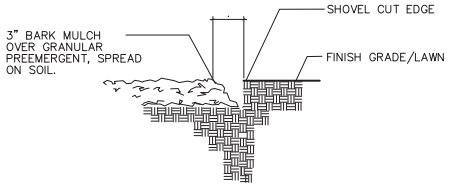
4 L105 CONTAINER PLANTING DETAIL NTS



5 L105 GROUNDCOVER / PERENNIAL PLANTING DETAIL NTS



6 L105 PERENNIAL/GROUNDCOVER SPACING DETAIL NTS



7 L105 BARK MULCH/SHOVEL CUT EDGE DETAIL NTS

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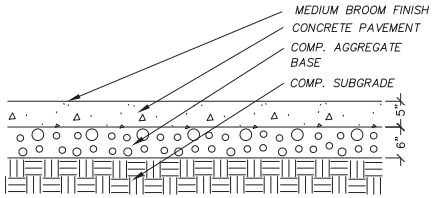
Revisions:

Plant Details

Date: 17_1120
Job No: 17_PRA_01
Sheet No.: L105



1 / L106 PED LOAD CONCRETE PAVEMENT–SECTION

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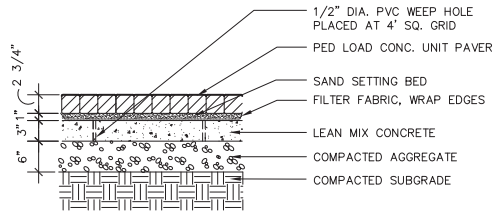

2 / L106 PED LOAD UNIT PAVER BAND – SECTION

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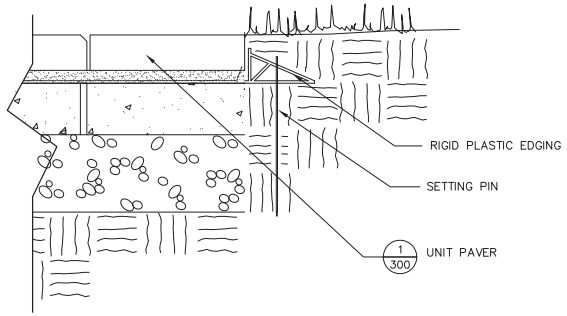
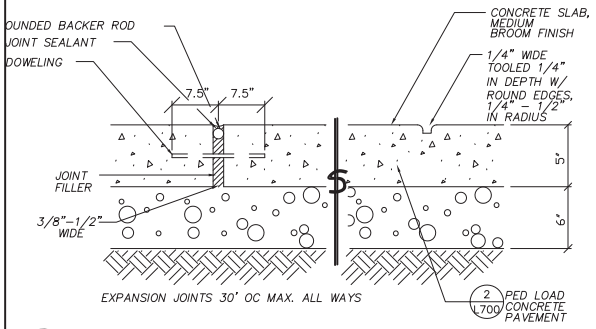


3 / L106 UNIT PAVER RESTRAINING EDGE SECTION

SCALE 1/2"=1'–0" NTS



4 / L106 EXPANSION/CONTROL JOINT–SECTION

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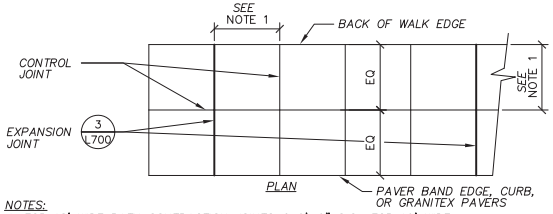
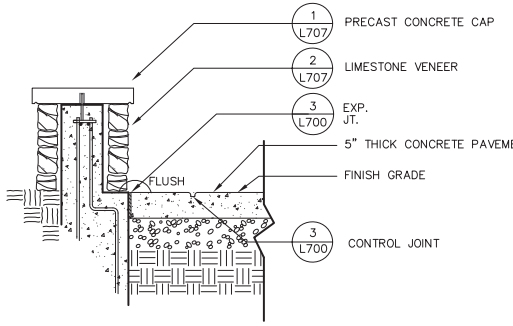


NOTES:

1. FOR 12' WIDE PATH CONTRACTION JOINTS @ 6'–0" O.C., FOR 10' WIDE PATH CONTRACTION JOINTS @ 5'–0" O.C., FOR 8' WIDE PATH CONTRACTION JOINTS @ 4'–0".
2. EXPANSION JOINTS FOR ALL WIDTHS TO BE AT 30' O.C. MAX. ALWAYS. (SEE LAYOUT PLANS FOR ADDITIONAL SCORING PATTERN DETAILS)
3. EXPANSION JOINTS SHALL BE CONSTRUCTED OF PREFORMED JOINT FILLER OR AS SPECIFIED. COLOR TO MATCH PAVEMENT COLOR.

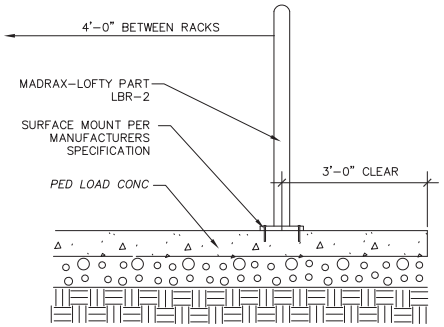
5 / L106 CONCRETE PAVEMENT SCORE PATTERN–PLAN

NTS



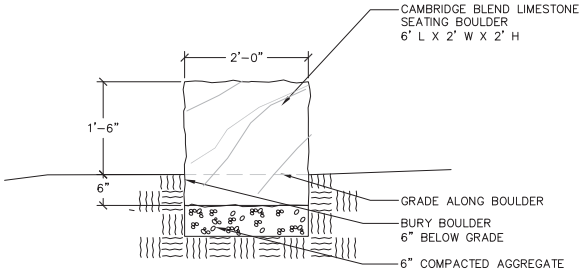
6 / L106 FREE STANDING LIMESTONE VENEER BENCH

NTS



7 / L106 BIKE RACK ON CONCRETE PAD

SCALE N.T.S.



8 / L106 LIMESTONE BLOCK DETENTION BASIN ACCENT TYPICAL

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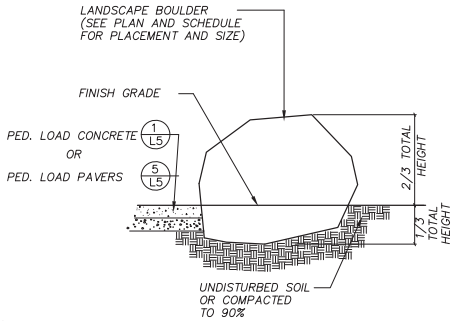

9 / L106 LANDSCAPE BOULDER DETAIL– SECTION

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Site Details

Date: 17_1120

Job No: 17_PRA_01

Sheet No.: L106

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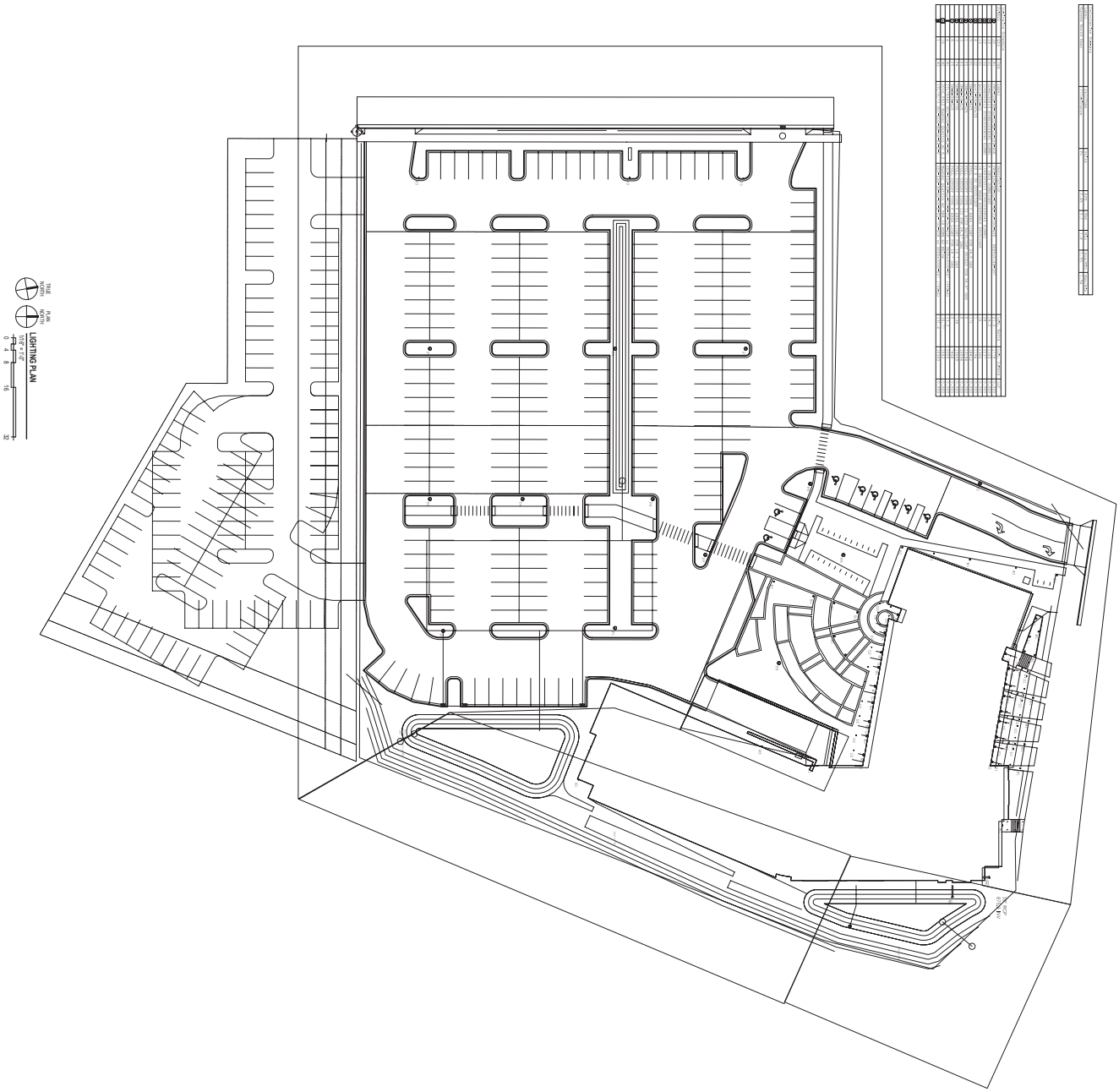

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Date 11/15/17

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Sheet No. 17004301

LIGHTING PLAN

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South Campus Project
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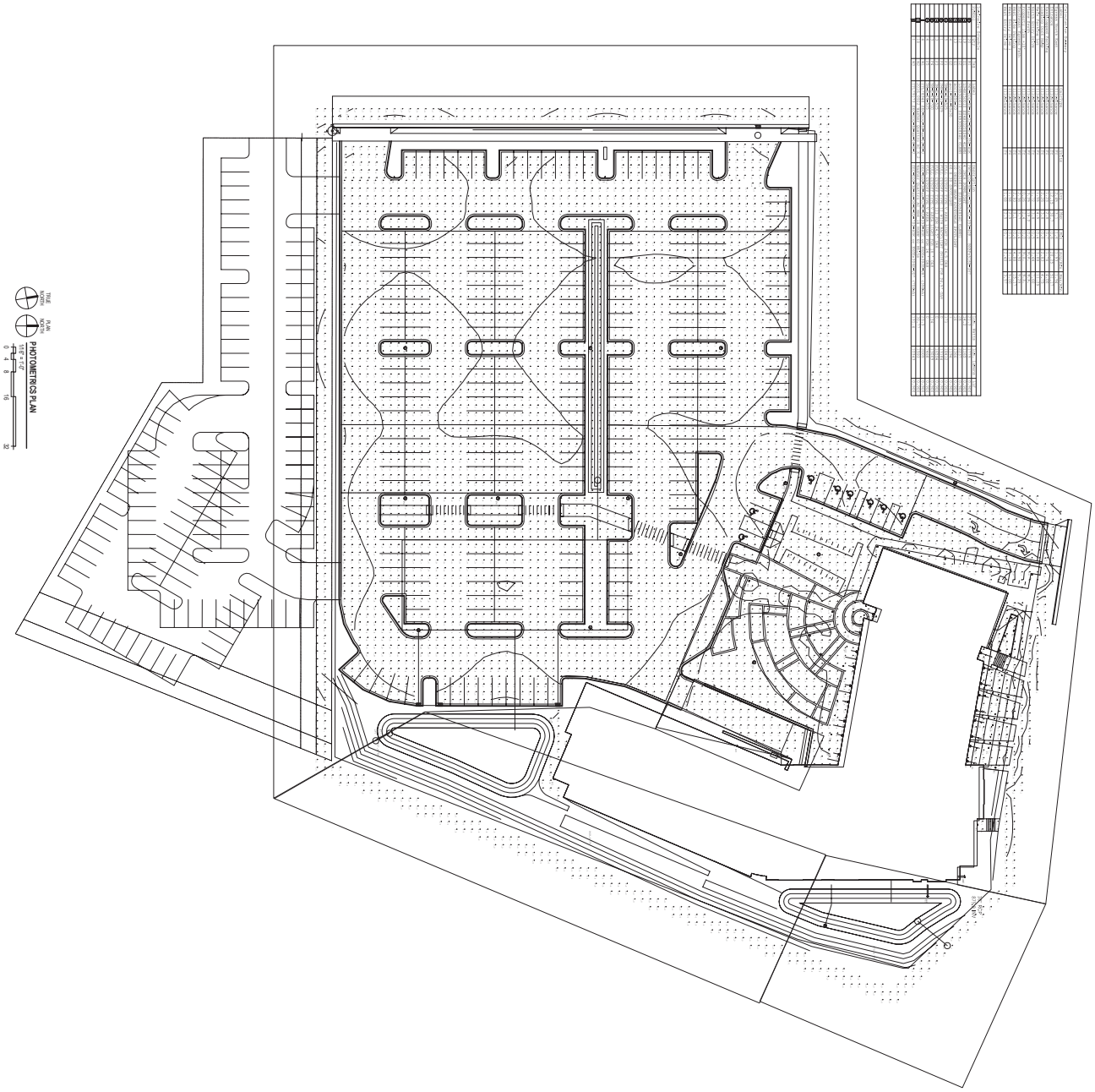

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Revisions

Date 11/15/17

Author

Sheet No. 170143-01

PHOTMETRICS PLAN

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MADISON COLLEGE SOUTH CAMPUS EXTERIOR LUMINAIRE SCHEDULE

QTY	TYPE	DESCRIPTION	CCT	NOMINAL DELIVERED LUMENS	NOMINAL WATTAGE	MFTR	MODEL #	NOTES
	B1	42" BOLLARD. SYMMETRICAL DISTRIBUTION. FINISH TO BE DETERMINED.	4000K	1,780	22	CREE INTRIGUE AMERLUX	PATHWAY PWY-EDG-5M-P42-02-E-UL-XX-350-40K	
	D1	4 INCH APERTURE DOWNLIGHT WITH SELF-TRIMMING MATTE CLEAR OR HAZE REFLECTOR. LENSED FOR COVERED EXTERIOR SOFFIT.	4000K	1,500	16	HALO	LD4B-15-D010/EU4B-1020-80-40/4LBM-1H	
	D2	6 INCH APERTURE DOWNLIGHT WITH SELF-TRIMMING MATTE CLEAR OR HAZE REFLECTOR. LENSED FOR COVERED EXTERIOR SOFFIT.	4000K	2,240	28	HALO	LD6B-30-D010/EU6B-3050-8040/6LBM1H	
	G1	KNUCKLE MOUNTED 10 DEGREE EXTERIOR SPOTLIGHT WITH JUNCTION BOX MOUNT, JUNCTION BOX AND GLARE SHIELD. FINISH TO BE DETERMINED.	3500K	1,300	17	AMERLUX	ACCION LARGE ACCL35-10-K-XXX-JCOV-JBOX-HGL	MOUNTED AT TOP OF COLUMNS AT NORTH ENTRANCE. MOUNTED AT BOTTOM OF COLUMNS AT SOUTH ENTRANCE.
	G2	KNUCKLE MOUNTED 30 X 60 DEGREE EXTERIOR SPOTLIGHT WITH HEAVY-DUTY POYCARBONATE STEAK AND GLARE SHIELD. FINISH TO BE DETERMINED.	3500K	1,200	17	AMERLUX	ACCION LARGE ACCL35-V6030-K-XXX-GSO17-HGL	SIGN LIGHTING TO BE CONFIRMED WITH FINAL PLACEMENT AND SIZING OF SIGNS.
	P1	FULL CUTOFF AREA LIGHT, TYPE V DISTRIBUTION. PROVIDE WITH 22' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON 30" RAISED CONCRETE BASE. FINISH TO BE DETERMINED.	4000K	18,400	171	CREE CYCLONE USA ARCHITECTURAL	EDGE ROUND ARE-EDR-5M-R3-10-E-UL-XX-525-40K	
	P2	FULL CUTOFF AREA LIGHT, TYPE II DISTRIBUTION WITH HOUSE SIDE SHIELD. PROVIDE WITH 22' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON 30" RAISED CONCRETE BASE. FINISH TO BE DETERMINED.	4000K	13,200	171	CREE CYCLONE USA ARCHITECTURAL	EDGE ROUND ARE-EDR-2BLS-R3-10-E-UL-XX-525-40K	
	P3	FULL CUTOFF AREA LIGHT, TYPE III DISTRIBUTION. PROVIDE WITH 22' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON 30" RAISED CONCRETE BASE. FINISH TO BE DETERMINED.	4000K	16,600	171	CREE CYCLONE USA ARCHITECTURAL	EDGE ROUND ARE-EDR-3M-R3-10-E-UL-XX-525-40K	
	P4	FULL CUTOFF AREA LIGHT, TYPE V DISTRIBUTION. PROVIDE WITH 16' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON FLUSH CONCRETE BASE. FINISH TO BE DETERMINED.	4000K	13,100	134	CREE CYCLONE USA ARCHITECTURAL	EDGE ROUND ARE-EDR-5M-R3-06-E-UL-XX-700-40K	
	P5	FULL CUTOFF AREA LIGHT, TYPE V DISTRIBUTION. PROVIDE WITH 14' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON FLUSH CONCRETE BASE. FINISH TO BE DETERMINED.	4000K	7,500	70	CREE CYCLONE USA ARCHITECTURAL	EDGE ROUND ARE-EDR-5M-R3-04-E-UL-XX-525-40K	
	W1	FULL CUTOFF EXTERIOR WALL LUMINAIRE. TYPE 3 DISTRIBUTION. FINISH TO BE DETERMINED.	4000K	2,000	25	CREE	EDGE SECURITY SEC-EDG-3M-WM-02-E-UL-XX-350-40K	MOUNTED AT APPROXIMATELY 9' AFG.
	W2	COLOR CHANGING (RGBW) EXTERIOR FLOODLIGHT FOR UPLIGHTING UNDERSIDE OF BUILDING CANOPY. DMX CONTROL REQUIRED.	N/A	MAX 3200 WHEN ALL ON	85	TRAXXON	QUATTRO WASH RGBW	MOUNTED AT APPROXIMATELY 26' AFG TO INDIRECTLY LIGHT CANOPY AT NORTH SIDE OF BUILDING. MOUNTED AT APPROXIMATELY XX' TO INDIRECTLY LIGHT CANOPY AT SOUTH SIDE OF BUILDING.
	W1	FULL CUTOFF EXTERIOR WALL LUMINAIRE. TYPE 3 DISTRIBUTION. FINISH TO BE DETERMINED.	4000K	10,300	132	CREE	EDGE SECURITY SEC-EDG-3M-WM-06-E-UL-XX-700-40K	MOUNTED AT APPROXIMATELY 18' AFG.

B1

Cree Edge™ Series

LED Pathway Luminaire

Product Description

Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance. Pole mounts to rugged die cast aluminum internal flange secured by three 3/8" - 16x6" anchor bolts with 1-1/4" hook (provided). **Note:** T45 Torx 3/8" socket required for head installation. Top mounted LEDs for superior optical performance and light control.

Applications: Landscape, walk-ways and general site lighting

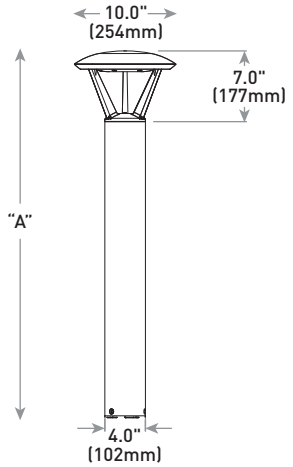
Performance Summary

- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI
- **CCT:** 4000K (+/- 300K), 5700K (+/- 500K) standard
- **Limited Warranty†:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

† See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed	
Upgrade Kit - Used for replacement of existing bollards with a bolt hole circle of 5.75" (146mm)	
XA-XBP8RSV	XA-XBP8RWH
XA-XBP8RBK	XA-XBP8RBZ



Model	Dim. "A"	Weight*
Landscape (P0)	13" (330mm)	12.7 lbs. (5.8kg)
Landscape (P1)	18" (457mm)	13.3 lbs. (6.0kg)
Pathway (P3)	36" (914mm)	17.9 lbs. (8.1kg)
Pathway (P4)	42" (1068mm)	18.6 lbs. (8.4kg)
Pedestrian (P8)	96" (2438mm)	28.4 lbs (12.9kg)

* Add 4.5 lbs. (2.0kg) for 347-480V

Ordering Information

Example: PWY-EDG-2M-P0-02-E-UL-SV-350

PWY-EDG			02	E				
Product	**Optic**	**Mounting**	**LED Count (x9)**	**Series**	**Voltage**	**Color Options**	**Drive Current**	**Options**
PWY-EDG	**2M** Type II Medium **3M** Type III Medium **5M** Type V Medium **5S** Type V Short	**P0** 13" (330mm) landscape **P1** 18" (457mm) landscape **P3** 36" (914mm) pathway **P4** 42" (1067mm) pathway **P8** 96" (2438mm) pedestrian	**02**	**E**	**UL** Universal 120-277V **UH*** Universal 347-480V - Available with P3, P4, and P8 mounts only **12** 120V **27** 277V	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**350** 350mA **525** 525mA - Available with P1, P3, P4, and P8 mounts only	**F Fuse** - When code dictates fusing, use time delay fuse - Refer to ML spec sheet for availability with ML options **HL Hi/Low (Dual Circuit Input)** - Available with UL voltage and 525mA driver current only - Refer to HL spec sheet for details - Sensor not included **TL Two-Level (175/525 w/integrated sensor control)** - Available with 12 or 27 voltages only - Refer to TL spec sheet for details **TL2 Two-Level (0/350 w/integrated sensor control)** - Available with 12 or 27 voltages only - Refer to TL spec sheet for details **TL3 Two-Level (0/525 w/integrated sensor control)** - Available with 12 or 27 voltages only - Refer to TL spec sheet for details **WB Welded Base Plate** - Standard on P8 mount option, available with P3 and P4 mount - Includes welded base cover **40K 4000K Color Temperature** - Minimum 70 CRI - Color temperature per luminaire

* 347-480V utilizes magnetic step-down transformer. For input power for 347-480V, refer to the Electrical Data table

Product Specifications

CONSTRUCTION & MATERIALS

- Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance
- Pole mounts to rugged die cast aluminum internal flange secured by three 3/8"-16x6" anchor bolts with 1-1/4" hook(provided).
  Note: T45 Torx 3/8" socket required for head installation
- Top mounted LEDs for superior optical performance and light control
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- **Weight:** See Dimension and Weight Chart on pages 1 and 4

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load at 120V
- **Total Harmonic Distortion:** < 20% at full load at 120V
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details

Electrical Data* (A)

LED Count (x9)	System Watts 120-277V	System Watts 347-480V	Total Current					
			120V	208V	240V	277V	347V	480V
350mA								
02	22	28	0.18	0.12	0.10	0.10	0.09	0.13
525mA								
02	34	40	0.29	0.19	0.17	0.15	0.12	0.13

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF)[1]

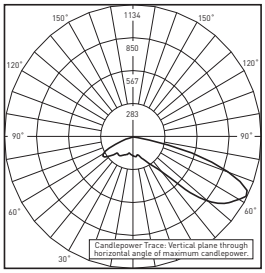
Ambient	Initial LMF	25K hr Projected[2] LMF	50K hr Projected[2] LMF	75K hr Calculated[3] LMF	100K hr Calculated[3] LMF
5°C (41°F)	1.04	0.99	0.97	0.95	0.93
10°C (50°F)	1.03	0.98	0.96	0.94	0.92
15°C (59°F)	1.02	0.97	0.95	0.93	0.91
20°C (68°F)	1.01	0.96	0.94	0.92	0.90
25°C (77°F)	1.00	0.95	0.93	0.91	0.89

[1] Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2] In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)
[3] In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

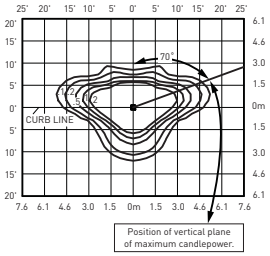
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway

2M



RESTL Test Report #: PL5758-001
PWY-EDG-2M-**-02-E-UL-350-40K
Initial Delivered Lumens: 1,549

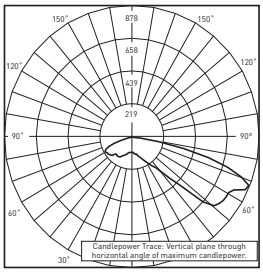


PWY-EDG-2M-**-02-E-UL-350-40K
Mounting Height: 3' (0.9m) A.F.G.
Initial Delivered Lumens: 1,565
Initial FC at grade

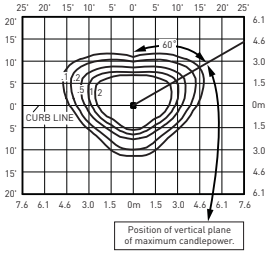
Type II Medium Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,565	B1 U0 G1	1,625	B1 U0 G1
525mA				
02	2,191	B1 U0 G1	2,276	B1 U0 G1

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

3M



RESTL Test Report #: PL5698-001
PWY-EDG-3M-**-02-E-UL-350-40K
Initial Delivered Lumens: 1,470

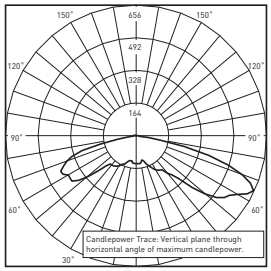


PWY-EDG-3M-**-02-E-UL-350-40K
Mounting Height: 3' (0.9m) A.F.G.
Initial Delivered Lumens: 1,389
Initial FC at grade

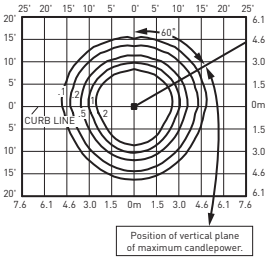
Type III Medium Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,389	B1 U0 G1	1,442	B1 U0 G1
525mA				
02	1,944	B1 U0 G1	2,019	B1 U0 G1

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

5M



RESTL Test Report #: PL5798-001
PWY-EDG-5M-**-02-E-UL-350-40K
Initial Delivered Lumens: 1,780



PWY-EDG-5M-**-02-E-UL-350-40K
Mounting Height: 3' (0.9m) A.F.G.
Initial Delivered Lumens: 1,666
Initial FC at grade

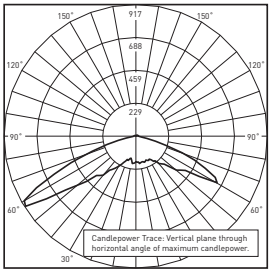
Type V Medium Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,666	B1 U2 G1	1,730	B1 U2 G1
525mA				
02	2,333	B2 U2 G2	2,422	B2 U2 G2

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

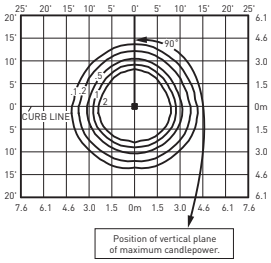
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway

5S



RESTL Test Report #: PL5759-001
PWY-EDG-5S-**-02-E-UL-350-40K
Initial Delivered Lumens: 1,897

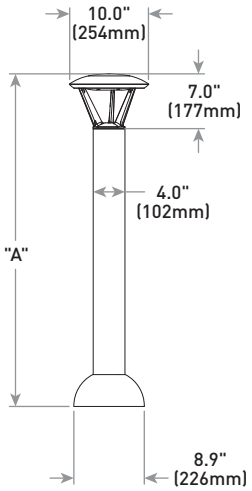


PWY-EDG-5S-**-02-E-UL-350-40K
Mounting Height: 3' (0.9m) A.F.G.
Initial Delivered Lumens: 1,868
Initial FC at grade

Type V Short Distribution				
LED Count (x9)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,868	B1 U2 G1	1,940	B1 U2 G1
525mA				
02	2,615	B1 U2 G1	2,716	B1 U2 G1

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

with Welded Base



Model	Dim. "A"	Weight*
Pathway (P3)	36" (914mm)	17.9 lbs. (8.1kg)
Pathway (P4)	42" (1068mm)	18.6 lbs. (8.4kg)
Pedestrian (P8)	96" (2438mm)	28.4 lbs (12.9kg)

* Add 4.5 lbs. (2.0kg) for 347-480V

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D1 **Portfolio**

DESCRIPTION

4 inch LED recessed narrow, medium, or wide beam downlight designed for glare free even illumination. Featuring a two-stage diffused reflector system producing smooth distribution with excellent light control and low aperture brightness. Lumen packages range from 1000 to 4000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K. 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		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Lower Shielding Reflector
Painted die cast aluminum or spun aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Spun reflectors are offered in all Portfolio Alzak® finishes. Available with non-conductive polymer trim. Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface. Plaster lathing ring accessory offered for flush reflector transition.

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

Thermal
Aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

LED
Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. Quick 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 to1850K as fixture dims mimicking halogen sources.

Driver
Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%. Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

Connected Lighting Systems
WaveLinx tilemount daylight sensor includes control module, sensor and cable allowing use with the comprehensive lighting system.

LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and relay accessory enables wireless control using a tile mount sensor accessory.

Code Compliance
Thermally protected and cULus listed for wet locations with covered ceiling. IP66 rated when used with IP66 gasket kit accessory. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. 2000 lumen and abover are Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1500 lumens. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 and TM-30 standards. LED life testing completed in accordance with LM 80 standards.

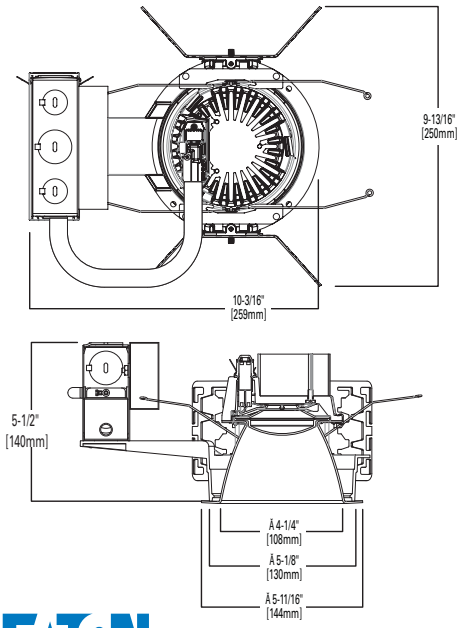
Warranty
5-year warranty

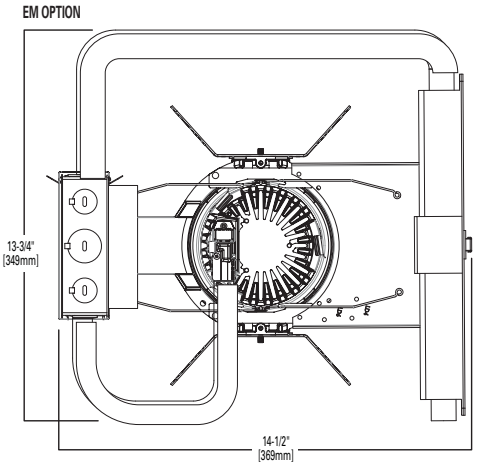
LD4B EU4B 4LBW 4LBM 4LBN

1000, 1500, 2000, 3000, 4000 Lumens LED

Narrow, Medium, or Wide Beam

New Construction





	1000-2000 LUMENS
NARROW/MEDIUM	5-1/2" [140mm]
WIDE	5-1/2" [140mm]
SHALLOW /TRIM	5-1/2" [140mm]

D2W™

Can be used to comply with T24 California Non-Residential Lighting Controls requirements

Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements.

EATON
Powering Business Worldwide

TD520034EN
October 11, 2017 9:42 AM

SAMPLE NUMBER: LD4B15D010IEMBOD

Housing	Lumens[1]	Voltage	Driver	Options
LD4B=LED Downlight 4" Nominal Aperture **LD4BCP**=LED Downlight 4" Nominal Aperture, Chicago Plenum	**10**=1000 lumens **15**=1500 lumens **20**=2000 lumens **30**=3000 lumens **40**=4000 lumens	**Blank**=120-277V	**1000 - 4000 Lumen** **D010**=0-10V Dimming, 1% to 100%, 120V-277V **D010TR**=0-10V or Line Voltage Dimming, 5% 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[13] **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	**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]

SAMPLE NUMBER: EU4B10208035

Power Module	Lumen Levels[1]	CRI	Color		
EU4B=4" Universal LED Module	**1020**=1000, 1500, 2000 lumens **3040**=3000-4000 lumens **1015IC**=1000, 1500 lumen IC rated	**80**=80 CRI Minimum **90**=90 CRI Minimum **97**=97 CRI Minimum	**80 CRI** **27**=2700K **30**=3000K **35**=3500K **40**=4000K **50**=5000K	**90 CRI** **24**=2400K **27**=2700K **30**=3000K **35**=3500K **40**=4000K **50**=5000K	**97 CRI** **27**=2700K **30**=3000K
	Dim 2 Warm **109030D2W**=1000 lumen, 90 CRI, Dim 2 Warm **159030D2W**=1500 lumen, 90 CRI, Dim 2 Warm **209030D2W**=2000 lumen, 90 CRI, Dim 2 Warm				

SAMPLE NUMBER: 4LBM1LIE

Trim	Distribution[5]	Flange	Finish	Options
4LB=4" LED	**N**=Narrow (30° Beam), Spun Aluminum **M**=Medium (50° Beam), Spun Aluminum **W**=Wide (75° Beam), Spun Aluminum **S**=Shallow (75° Beam), Spun Aluminum **PS**=Plastic Shallow (75° Beam), Injection Molded white[11] **CS**=Cast Shallow (75° Beam), Die Cast Aluminum **BA**=Baffle, Spun Aluminum[7]	**0**=White Polymer Trim Ring **1**=Self-flanged[12] **2**=White Painted Self-flanged	**LI**=Specular Clear[10] **H**=Semi-Specular Clear[10] **WMH**=Warm Haze[10] **WH**=Wheat[10] **GPH**=Graphite Haze[10] **B**=Specular Black[10] **MW**=Matte White **MB**=Matte Black[9] **MMS**=Matte Metallic Silver[8]	**E**=Integral Emergency Test Switch Hole[6]

Accessories
HSA4=Slope Adapter for 4" Aperture Housings, Specify Slope in 5° increments **TRM4**=Metal Trim Ring, Specify Color[2] **TRR4**=Rimless Trim Ring[2] **LGSKT4IP66**=IP66 Gasket Kit **PRR4**=Rimless Plaster Ring for Flush Mount[2] **Bar Hangers** **HB26**=C-channel Bar Hanger, 26" Long, Pair **HB50**=C-channel Bar Hanger, 50" Long, Pair **RMB22**=Wood Joist Bar Hanger, 22" 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 (0-10V only) **TMSWPD1**=WaveLinx tilemount daylight sensor (includes control module, sensor, cable and tile mount)

Notes:

1. Nominal Lumens will vary depending on selected color, driver and reflector finish.
2. Order spun trim with polymer trim ring or die cast with rimless flange (Consult specification sheet for color ordering information and options).
3. Not available with Chicago Plenum.
4. ULus approved only.
5. Beam angles are nominal with LI finish trims.
6. Only available with Narrow and Medium Spun Aluminum trims. Required for use with all IEMBOD, IEM7, and IEM14 housings.
7. Only available with Matte White and Matte Black Finishes.
8. Only available on CS distribution.
9. Available only on BA and CS distributions.
10. Not available on PS, CS or BA distributions.
11. Matte white and self flanged only
12. Flange is same finish as the reflector.
13. DMX fixtures default to full on upon loss of DMX signal.

ENERGY

ENERGY DATA
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -30°C (-22°F)
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)
Input Voltage: UNV (120V - 277V)
Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power)
Input Frequency: 50/60Hz

1000 Lumen D010		1500 Lumen D010	
Input Power: 11W	THD: <14%	Input Power: 15.5W	THD: <13%
120V Input Current: 0.09A	277V Input Current: 0.04A	120V Input Current: 0.13A	277V Input Current: 0.06A

2000 Lumen D010		3000 Lumen D010	
Input Power: 21.2W	THD: <9%	Input Power: 27.6W	THD: <10%
120V Input Current: 0.18A	277V Input Current: 0.08A	120V Input Current: 0.23A	277V Input Current: 0.10A

4000 Lumen D010	
Input Power: 41.6W	THD: <13%
120V Input Current: 0.35A	277V Input Current: 0.15A

	120V		277V	
Lumens	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	0.042	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027
3000 Lumen D010	1.15	0.067	3.26	0.027
4000 Lumen D010	1.2	0.088	3.9	0.03

Powering Business Worldwide

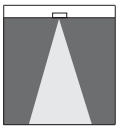
Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

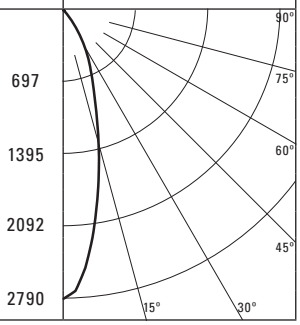
PHOTOMETRY

NARROW (30° BEAM)

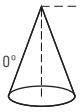
Test Number	P201208
Housing	LD4B15D010
Module	EU4B10208035
Trim	4LBN1LI
Lumens	1128
Efficacy	78.9 Lm/W
SC	0.5



CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	92	2.6	2.6
7'	57	3.4	3.4
8'	44	3.8	3.8
9'	34	4.4	4.4
10'	28	4.8	4.8
12'	19	5.8	5.8

CANDELA TABLE

Degrees Vertical	Candela
0	2790
5	2550
15	1421
25	667
35	266
45	32
55	3
65	1
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	926	82.1
0-40	1094	97
0-60	1127	99.9
0-90	1128	100
90-180	0	0
0-180	1128	100

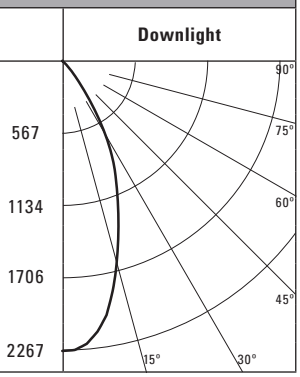
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	489
55	55
65	26
75	0
85	0

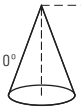
MEDIUM (50° BEAM)

Test Number	P201206
Housing	LD4B15D010
Module	EU4B10208035
Trim	4LBM1LI
Lumens	1481
Efficacy	103.6 Lm/W
SC	0.71

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	75	3.8	3.8
7'	46	5	5
8'	35	5.6	5.6
9'	28	6.4	6.4
10'	23	7	7
12'	16	8.4	8.4

CANDELA TABLE

Degrees Vertical	Candela
0	2267
5	2227
15	1690
25	1027
35	409
45	70
55	8
65	3
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1144	77.3
0-40	1406	95
0-60	1477	99.7
0-90	1481	100
90-180	0	0
0-180	1481	100

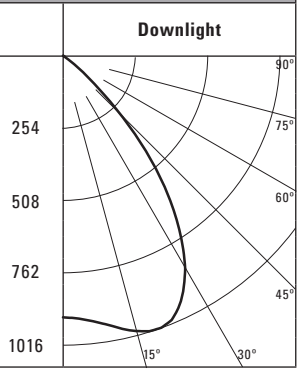
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	1072
55	151
65	77
75	42
85	0

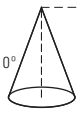
WIDE (75° BEAM)

Test Number	P201204
Housing	LD4B15D010
Module	EU4B10208035
Trim	4LBW1LI
Lumens	1518
Efficacy	106.2 Lm/W
SC	1.3

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	30	7	7
7'	19	9	9
8'	14	10.4	10.4
9'	11	11.6	11.6
10'	9	13	13
12'	6	15.6	15.6

CANDELA TABLE

Degrees Vertical	Candela
0	914
5	925
15	998
25	977
35	707
45	286
55	30
65	4
75	1
85	0
90	0

ZONAL LUMEN SUMMARY

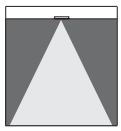
Zone	Lumens	% Fixture
0-30	816	53.8
0-40	1252	82.5
0-60	1513	99.7
0-90	1518	100
90-180	0	0
0-180	1518	100

LUMINANCE

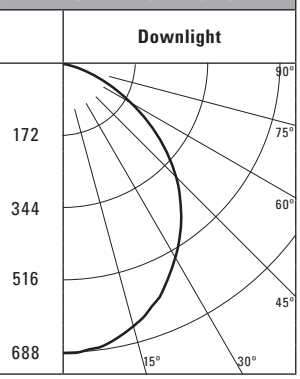
Average Candela Degrees	Average 0° Luminance
45	4372
55	574
65	100
75	42
85	0

SHALLOW (75° BEAM)

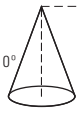
Test Number	P201210
Housing	LD4B15D010
Module	EU4B10208035
Trim	4LBCS1MMS
Lumens	1497
Efficacy	104.7 Lm/W
SC	1.16



CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	23	6.2	6.2
7'	14	8	8
8'	11	9.2	9.2
9'	9	10.4	10.4
10'	7	11.6	11.6
12'	5	13.8	13.8

CANDELA TABLE

Degrees Vertical	Candela
0	688
5	682
15	645
25	577
35	486
45	380
55	253
65	126
75	32
85	1
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	512	34.2
0-40	816	54.5
0-60	1333	89
0-90	1497	100
90-180	0	0
0-180	1497	100

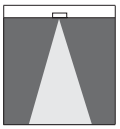
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	5827
55	4771
65	3226
75	1339
85	124

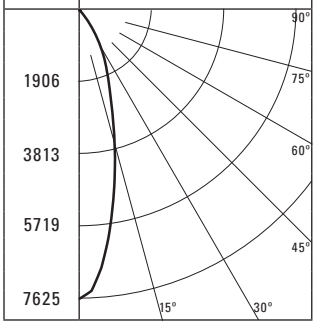
PHOTOMETRY

NARROW (25° BEAM)

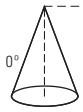
Test Number	PP201209
Housing	LD4B40D010
Module	EU4B30408035
Trim	4LBN1LI
Lumens	3083
Efficacy	73.8 Lm/W
SC	0.5



CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	252	2.6	2.6
7'	156	3.4	3.4
8'	119	3.8	3.8
9'	94	4.4	4.4
10'	76	4.8	4.8
12'	53	5.8	5.8

CANDELA TABLE

Degrees Vertical	Candela
0	7625
5	6969
15	3883
25	1822
35	727
45	87
55	8
65	3
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	2531	82.1
0-40	2989	97
0-60	3080	99.9
0-90	3083	100
90-180	0	0
0-180	3083	100

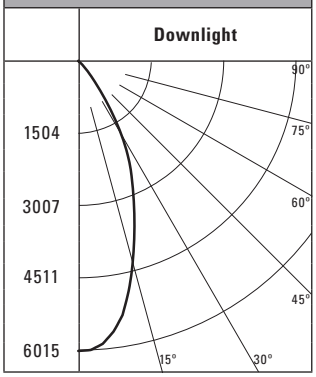
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	1337
55	149
65	67
75	0
85	0

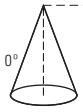
MEDIUM (50° BEAM)

Test Number	P201207
Housing	LD4B40D010
Module	EU4B30408035
Trim	4LBM1LI
Lumens	3929
Efficacy	94 Lm/W
SC	0.71

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	199	3.8	3.8
7'	123	5	5
8'	94	5.6	5.6
9'	74	6.4	6.4
10'	60	7	7
12'	42	8.4	8.4

CANDELA TABLE

Degrees Vertical	Candela
0	6015
5	5909
15	4484
25	2725
35	1085
45	186
55	21
65	8
75	3
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	3036	77.3
0-40	3731	95
0-60	3918	99.7
0-90	3929	100
90-180	0	0
0-180	3929	100

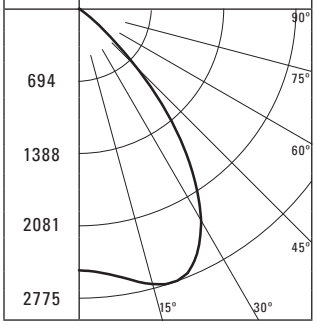
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	2844
55	400
65	205
75	113
85	0

WIDE (75° BEAM)

Test Number	P201205
Housing	LD4B40D010
Module	EU4B30408035
Trim	4LBW1LI
Lumens	4148
Efficacy	99.2 Lm/W
SC	1.3

CANDLEPOWER DISTRIBUTION



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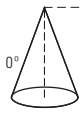


D	FC	L	W
5.5'	83	7	7
7'	51	9	9
8'	39	10.4	10.4
9'	31	11.6	11.6
10'	25	13	13
12'	17	15.6	15.6

CANDELA TABLE

Degrees Vertical	Candela
0	2499
5	2528
15	2727
25	2670
35	1933
45	780
55	83
65	11
75	3
85	0
90	0

ZONAL LUMEN SUMMARY

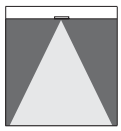
Zone	Lumens	% Fixture
0-30	2230	53.8
0-40	3421	82.5
0-60	4134	99.7
0-90	4148	100
90-180	0	0
0-180	4148	100

LUMINANCE

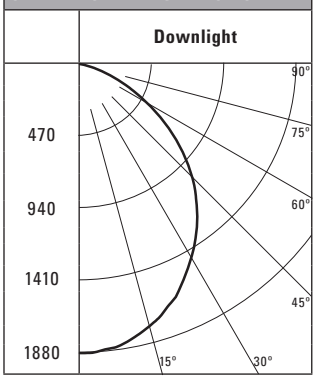
Average Candela Degrees	Average 0° Luminance
45	11948
55	1569
65	274
75	113
85	0

SHALLOW (75° BEAM)

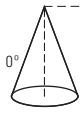
Test Number	P201211
Housing	LD4B40D010
Module	EU4B30508035
Trim	4LBCS1MMS
Lumens	4093
Efficacy	97.9 Lm/W
SC	1.16



CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	62	6.2	6.2
7'	38	8	8
8'	29	9.2	9.2
9'	23	10.4	10.4
10'	19	11.6	11.6
12'	13	13.8	13.8

CANDELA TABLE

Degrees Vertical	Candela
0	1880
5	1864
15	1763
25	1578
35	1329
45	1040
55	691
65	344
75	87
85	3
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1400	34.2
0-40	2230	54.5
0-60	3645	89
0-90	4093	100
90-180	0	0
0-180	4093	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	15933
55	13046
65	8819
75	3657
85	323

D2 **Portfolio**

DESCRIPTION

6 inch LED recessed narrow, medium, or wide beam downlight designed for glare free even illumination. Featuring a two-stage diffused reflector system producing smooth distribution with excellent light control and low aperture brightness. Lumen packages range from 1000 to 7000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K. 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.

		Type
Catalog #		
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Lower Shielding Reflector
Painted die cast aluminum or spun aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Spun reflectors are offered in all Portfolio Alzak® finishes. Available with non-conductive polymer trim. Reflector is retained with two torsion springs holding the flange tight 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
Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring. (4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Lever connectors for simple push in wiring.

Thermal
Aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

LED
Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. Quick 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 to1850K as fixture dims mimicking halogen sources.

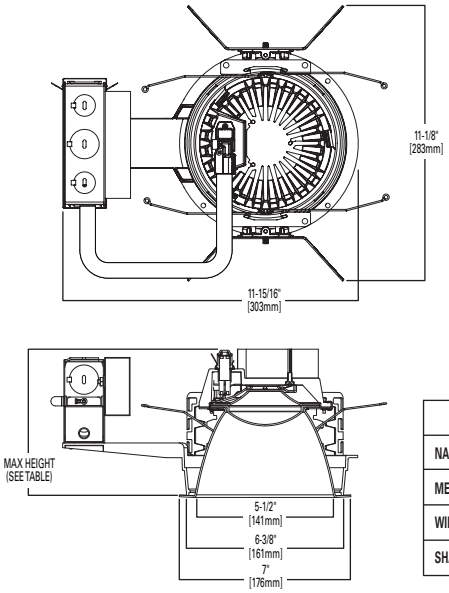
Driver
Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1% (offered up to 4000 lumens). Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

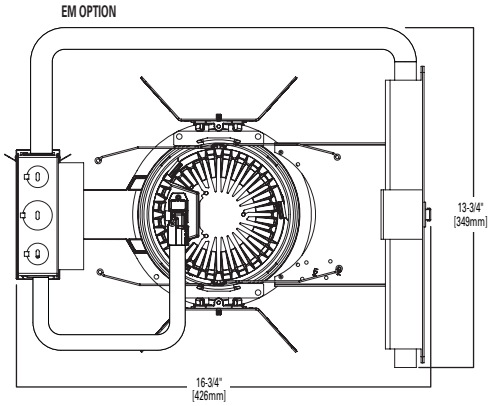
Connected Lighting Systems
WaveLinx tilemount daylight sensor includes control module, sensor and cable allowing use with the comprehensive lighting system.

LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and relay accessory enables wireless control using a tile mount sensor accessory.

Code Compliance
Thermally protected and cULus listed for wet locations with covered ceiling. IP66 rated when used with IP66 gasket kit accessory. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1500 lumens. 5000 lumen and above are marked spacing and must follow spacing requirements. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 and TM-30 standards. LED life testing completed in accordance with LM 80 standards.

Warranty
5-year warranty





	1000-2000 LUMENS	3000-5000 LUMENS	6000-7000 LUMENS
NARROW	5-15/16" [151mm]	5-15/16" [151mm]	7-11/16" [195mm]
MEDIUM	5-7/8" [149mm]	5-7/8" [149mm]	7-5/8" [194mm
WIDE	5-1/2" [140mm]	5-1/2" [140mm]	6-13/16" [173mm]
SHALLOW TRIM	5-1/2" [140mm]	NA	NA

LD6B EU6B 6LBW 6LBM 6LBN

1000 - 7000 lumens LED

Narrow, Medium, or Wide Beam

New Construction

D2W™

ENERGY STAR

Can be used to comply with T24 California Non-Residential Lighting Controls requirements

RoHS Compliant

Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements.

EATON
Powering Business Worldwide

ORDERING INFORMATION

SAMPLE NUMBER: LD6B15D010EMBOD

Housing	Lumens[1]	Voltage	Driver	Options
LD6B=LED Downlight 6" Nominal Aperture **LD6BCP**=LED Downlight 6" Nominal Aperture, Chicago Plenum	**10**=1000 lumens **15**=1500 lumens **20**=2000 lumens **30**=3000 lumens **40**=4000 lumens **50**=5000 lumens[10] **60**=6000 lumens[10] **70**=7000 lumens[10]	**Blank**=120-277V	**1000 - 4000 Lumen** **D010**=0-10V Dimming, 1% to 100%, 120V-277V **D010TR**=0-10V or Line Voltage Dimming, 5% 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 [14] **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 **5000, 6000, and 7000 Lumen** **D010TE**=0-10V 1% or Trailing Edge, 10% to 100%, 120V-277V (120V Only for Trailing Edge Dimming)	**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]

SAMPLE NUMBER: EU6B10208035

Power Module	Lumen Levels[1]	CRI	Color		
			80 CRI	**90 CRI**	**97 CRI**
EU6B=6" Universal LED Module	**1020**=1000, 1500, 2000 lumens **3050**=3000, 4000, 5000 lumens **6070**=6000, 7000 lumens **1015IC**=1000, 1500 lumen IC rated	**80**=80 CRI Minimum **90**=90 CRI Minimum **97**=97 CRI Minimum	**27**=2700K **30**=3000K **35**=3500K **40**=4000K **50**=5000K	**24**=2400K **27**=2700K **30**=3000K **35**=3500K **40**=4000K **50**=5000K	**27**=2700K **30**=3000K
	Dim 2 Warm **109030D2W**=1000 lumen, 90 CRI, Dim 2 Warm **159030D2W**=1500 lumen, 90 CRI, Dim 2 Warm **209030D2W**=2000 lumen, 90 CRI, Dim 2 Warm				

SAMPLE NUMBER: 6LBM1LIE

Trim	Distribution[5]	Flange	Finish	Options
6LB=6" LED	**N**=Narrow (30° Beam), Spun Aluminum **M**=Medium (50° Beam), Spun Aluminum **W**=Wide (75° Beam), Spun Aluminum **S**=Shallow (75° Beam), Spun Aluminum[12] **PS**=Plastic Shallow (75° Beam), Injection Molded white[11, 12] **CS**=Cast Shallow (75° Beam), Die Cast Aluminum[12] **BA**=Baffle (50° Beam), Spun Aluminum[7]	**0**=White Polymer Trim Ring **1**=Self-flanged[13] **2**=White Painted Self-flanged	**LI**=Specular Clear[9] **H**=Semi-Specular Clear[9] **WMH**=Warm Haze[9] **WH**=Wheat[9] **GPH**=Graphite Haze[9] **B**=Specular Black[9] **MW**=Matte White **MB**=Matte Black[8] **MMS**=Matte Metallic Silver[8]	**E**=Integral Emergency Test Switch Hole[6]

Accessories

HSA6=Slope Adapter for 6" Aperture Housings, Specify Slope
TRM6=Metal Trim Ring, Specify Color[2]
PRR6=Rimless Trim Ring for Flush Mount[2]
LGSKT6IP66=IP66 Gasket Kit
DT6=Deco Trim[2]

Bar Hangers
HB26=C-channel Bar Hanger, 26" Long, Pair
HB50=C-channel Bar Hanger, 50" Long, Pair
RMB22=Wood Joist Bar Hanger, 22" 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 (0-10V only)
TMSWPD1=WaveLinx tilemount daylight sensor (includes control module, sensor, cable and tile mount)

Notes:
1. Nominal Lumens will vary depending on selected color, driver and reflector finish.
2. Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
3. Not available with Chicago Plenum.
4. ULus listed only
5. Beam angles are nominal with LI finish trims.
6. Only available with Narrow and Medium Spun Aluminum trims. Required for use with all IEMBOD, IEM7, and IEM14 housings. Requires above ceiling access with wide beam trim.
7. Only available with Matte White and Matte Black Finishes.
8. Available only on CS distributions.
9. Not available on PS, CS or BA distributions.
10. 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"
    - Not available with CS or PS trims
11. PS available in self-flanged MW finish only.
12. Offered up to 2000 lumens
13. Flange is the same finish as the reflector
14. DMX fixtures default to full on upon loss of DMX signal.

ENERGY

ENERGY DATA
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -30°C (-22°F)
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)
Input Voltage: UNV (120V - 277V)
Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power)
Input Frequency: 50/60Hz

1000 Lumen D010		1500 Lumen D010	
Input Power: 11W	THD: <14%	Input Power: 15.5W	THD: <13%
120V Input Current: 0.09A	277V Input Current: 0.04A	120V Input Current: 0.13A	277V Input Current: 0.06A

2000 Lumen D010		3000 Lumen D010	
Input Power: 21.2W	THD: <9%	Input Power: 27.6W	THD: <10%
120V Input Current: 0.18A	277V Input Current: 0.08A	120V Input Current: 0.23A	277V Input Current: 0.10A

4000 Lumen D010		5000 Lumen D010TE	
Input Power: 41.6W	THD: <13%	Input Power: 57.9W	THD: <14%
120V Input Current: 0.35A	277V Input Current: 0.15A	120V Input Current: 0.49A	277V Input Current: 0.22A

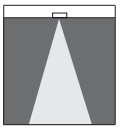
6000 Lumen D010TE		7000 Lumen D010TE	
Input Power: 59.7W	THD: <14%	Input Power: 75.8W	THD: <13%
120V Input Current: 0.50A	277V Input Current: 0.22A	120V Input Current: 0.64A	277V Input Current: 0.29A

	120V		277V	
Lumens	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	0.042	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027
3000 Lumen D010	1.15	0.067	3.26	0.027
4000 Lumen D010	1.2	0.088	3.9	0.03
5000 Lumen D010TE	5.1	0.132	10.2	0.153
6000 Lumen D010TE	5.4	0.123	10.8	0.154
7000 Lumen D010TE	4.9	0.13	9.8	0.156

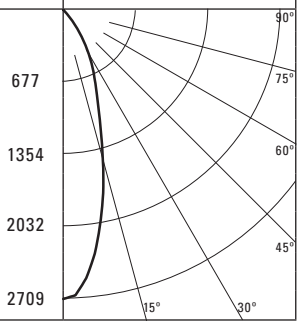
PHOTOMETRY

NARROW (30° BEAM)

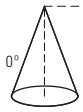
Test Number	P201217
Housing	LD6B15D010
Module	EU6B10208035
Trim	6LBN1LI
Lumens	1195
Efficacy	83.6 Lm/W
SC	0.53



CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	90	2.8	2.8
7'	55	3.6	3.6
8'	42	4.2	4.2
9'	33	4.6	4.6
10'	27	5.2	5.2
12'	19	6.2	6.2

CANDELA TABLE

Degrees Vertical	Candela
0	2709
5	2526
15	1468
25	708
35	299
45	44
55	4
65	1
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	960	80.4
0-40	1149	96.2
0-60	1193	99.9
0-90	1195	100
90-180	0	0
0-180	1195	100

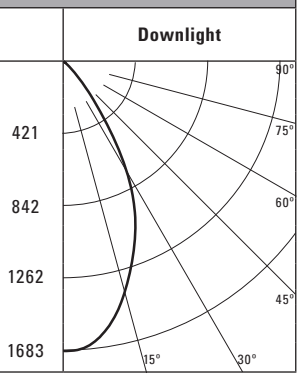
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	677
55	76
65	26
75	0
85	0

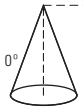
MEDIUM (50° BEAM)

Test Number	P201215
Housing	LD6B15D010
Module	EU6B10208035
Trim	6LBM1LI
Lumens	1345
Efficacy	94.1 Lm/W
SC	0.85

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	56	4.6	4.6
7'	34	5.8	5.8
8'	26	6.6	6.6
9'	21	7.6	7.6
10'	17	8.4	8.4
12'	12	10	10

CANDELA TABLE

Degrees Vertical	Candela
0	1683
5	1661
15	1386
25	993
35	430
45	76
55	7
65	3
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	990	73.6
0-40	1265	94
0-60	1341	99.7
0-90	1345	100
90-180	0	0
0-180	1345	100

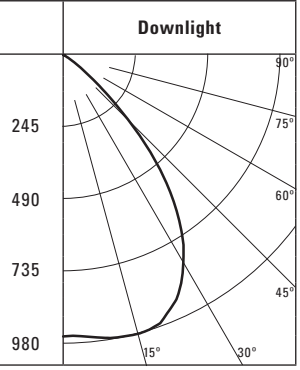
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	1159
55	130
65	87
75	71
85	0

WIDE (75° BEAM)

Test Number	P201213
Housing	LD6B15D010
Module	EU6B10208035
Trim	6LBW1LI
Lumens	1519
Efficacy	106.2 Lm/W
SC	1.23

CANDLEPOWER DISTRIBUTION



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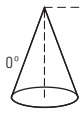


D	FC	L	W
5.5'	32	6.6	6.6
7'	20	8.6	8.6
8'	15	9.8	9.8
9'	12	11	11
10'	10	12.2	12.2
12'	7	14.6	14.6

CANDELA TABLE

Degrees Vertical	Candela
0	963
5	963
15	976
25	913
35	687
45	316
55	56
65	6
75	2
85	0
90	0

ZONAL LUMEN SUMMARY

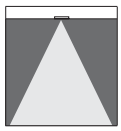
Zone	Lumens	% Fixture
0-30	785	51.7
0-40	1207	79.5
0-60	1510	99.4
0-90	1519	100
90-180	0	0
0-180	1519	100

LUMINANCE

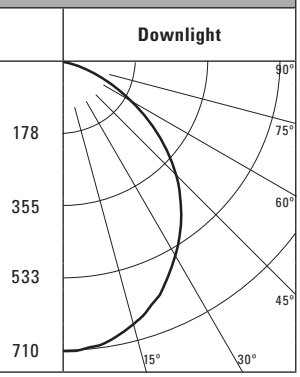
Average Candela Degrees	Average 0° Luminance
45	4835
55	1055
65	151
75	84
85	0

SHALLOW (75° BEAM)

Test Number	P201212
Housing	LD6B15D010
Module	EU6B10208035
Trim	6LBCS1MMS
Lumens	1546
Efficacy	110.4 Lm/W
SC	1.16



CANDLEPOWER DISTRIBUTION



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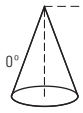


D	FC	L	W
5.5'	24	6.2	6.2
7'	15	8	8
8'	11	9.2	9.2
9'	9	10.4	10.4
10'	7	11.6	11.6
12'	5	13.8	13.8

CANDELA TABLE

Degrees Vertical	Candela
0	710
5	704
15	666
25	596
35	502
45	393
55	261
65	130
75	33
85	1
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	529	34.2
0-40	843	54.5
0-60	1377	89
0-90	1546	100
90-180	0	0
0-180	1546	100

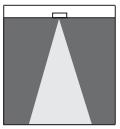
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	36260
55	29687
65	20068
75	8318
85	749

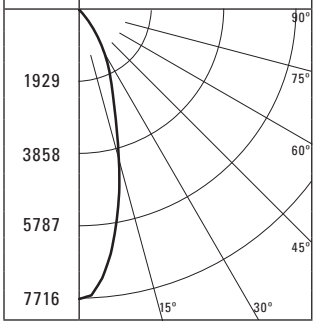
PHOTOMETRY

NARROW (30° BEAM)

Test Number	P201218
Housing	LD6B40D010
Module	EU6B30508035
Trim	6LBN1LI
Lumens	3404
Efficacy	81.4 Lm/W
SC	0.53



CANDLEPOWER DISTRIBUTION



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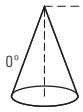


D	FC	L	W
5.5'	255	2.8	2.8
7'	158	3.6	3.6
8'	121	4.2	4.2
9'	95	4.6	4.6
10'	77	5.2	5.2
12'	54	6.2	6.2

CANDELA TABLE

Degrees Vertical	Candela
0	7716
5	7196
15	4183
25	2017
35	853
45	126
55	11
65	3
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	2735	80.4
0-40	3274	96.2
0-60	3399	99.9
0-90	3404	100
90-180	0	0
0-180	3404	100

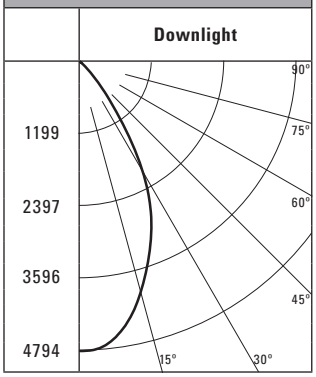
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	1928
55	215
65	74
75	0
85	0

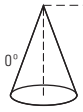
MEDIUM (50° BEAM)

Test Number	P201216
Housing	LD6B40D010
Module	EU6B30508035
Trim	6LBM1LI
Lumens	3831
Efficacy	91.7 Lm/W
SC	0.85

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	159	4.6	4.6
7'	98	5.8	5.8
8'	75	6.6	6.6
9'	59	7.6	7.6
10'	48	8.4	8.4
12'	33	10	10

CANDELA TABLE

Degrees Vertical	Candela
0	4794
5	4731
15	3946
25	2829
35	1226
45	216
55	20
65	10
75	5
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	2819	73.6
0-40	3602	94
0-60	3819	99.7
0-90	3831	100
90-180	0	0
0-180	3831	100

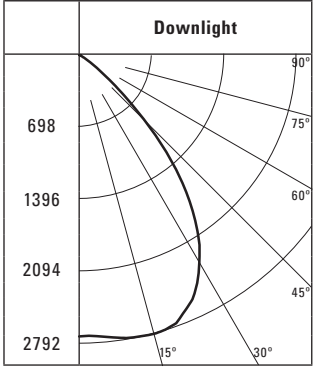
LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	3303
55	370
65	251
75	205
85	0

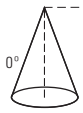
WIDE (75° BEAM)

Test Number	P201214
Housing	LD6B40D010
Module	EU6B30508035
Trim	6LBW1LI
Lumens	4326
Efficacy	103.5 Lm/W
SC	1.23

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	91	6.6	6.6
7'	56	8.6	8.6
8'	43	9.8	9.8
9'	34	11	11
10'	27	12.2	12.2
12'	19	14.6	14.6

CANDELA TABLE

Degrees Vertical	Candela
0	2742
5	2742
15	2778
25	2600
35	1957
45	899
55	159
65	17
75	6
85	0
90	0

ZONAL LUMEN SUMMARY

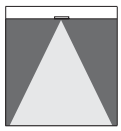
Zone	Lumens	% Fixture
0-30	2236	51.7
0-40	3439	79.5
0-60	4301	99.4
0-90	4326	100
90-180	0	0
0-180	4326	100

LUMINANCE

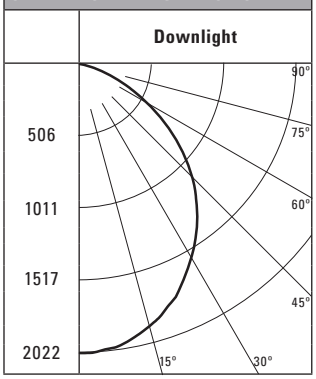
Average Candela Degrees	Average 0° Luminance
45	13769
55	3006
65	430
75	234
85	0

SHALLOW (75° BEAM)

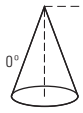
Test Number	P35144
Housing	LD6B40D010
Module	EU6B30508035
Trim	6LBCS1MMS
Lumens	4403
Efficacy	105.3 Lm/W
SC	1.16



CANDLEPOWER DISTRIBUTION



CONE OF LIGHT



D	FC	L	W
5.5'	67	6.2	6.2
7'	41	8	8
8'	32	9.2	9.2
9'	25	10.4	10.4
10'	20	11.6	11.6
12'	14	13.8	13.8

CANDELA TABLE

Degrees Vertical	Candela
0	2022
5	2005
15	1897
25	1697
35	1430
45	1119
55	743
65	370
75	94
85	3
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixture
0-30	1506	34.2
0-40	2399	54.5
0-60	3921	89
0-90	4403	100
90-180	0	0
0-180	4403	100

LUMINANCE

Average Candela Degrees	Average 0° Luminance
45	17139
55	14033
65	9486
75	3933
85	348

Acion

Large LED Accent

amerlux
Passion. Power. Performance.

ACCL / BLK

Features

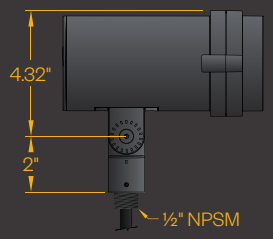
The Amerlux Acion accent luminaire employs solid state technology and precision engineering to provide small scale LED solutions in landscape and architecture layouts. All components are encapsulated inside a single attractive enclosure designed for superior performance in weather resistant applications. Offered in a choice of beam spreads, finishes, and color temperatures, two mounting options and glare shield are also available.

Product Overview

Wattage:	17W
Lumen Output:	1,360 lm
Color Temp:	2,700K / 3,000K / 3,500K
Dimming:	ELV at 120v only

PROJECT:

TYPE:



Construction:

- Die-cast aluminum
- IP67 sealed optical chamber and integral driver chamber
- Easy "two-screw" integral driver access, does not disturb optical chamber seal
- Flush lens prevents puddles/water deposits in upward facing applications
- Knuckle mount
- Vertical aiming lock, with tamper-resistant tooled locking after final aiming

Optics:

- Lumen maintenance: 70% @ 50,000 hours
- 10˚,15˚,30˚,40˚,60˚,60x10,60x30,90x60 beam spreads are available with secondary shaping lens

Electrical:

- Integral driver
- Input voltage 120v-277v auto-sensing
- 1/2" NPSM wire entry
- Drive current 700mA
- Power consumption 17W
- ELV dimmable at 120v only

ETL listed, suitable for wet locations.

Accessories:

- Ground Stake (**GSP17**)
- Ground Spike (**GSP2**)
- Junction Box (**JBOX**)
- Junction Mount (**JCOV**)

Optical Accessories:

- Hexell Louver (**HCL**)
- Half Glare Shield (**HGL**)

Finish:

Premium quality thermoset polyester powdercoat for a durable finish.

BLK -Satin Black
CLB -Classic Bronze
GRN -Green
CSTM -Custom

POWDER COATED TOUGH
5 year limited warranty AMERLUX LED
Electrostatic sensitive device. observe precautions for handling

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Acion

Large LED Accent

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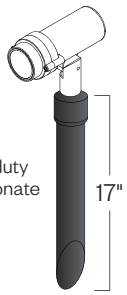
Passion. Power. Performance.

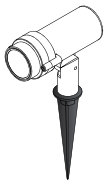
PROJECT: **TYPE:**

Accessories:

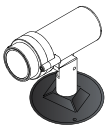
GSP17
(Ground Stake)



GSP2
(Ground Spike)



JCOV
(Junction Mount)

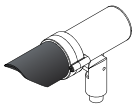


JBOX
(Junction Box)

Finish will match luminaire color.

Optical Accessories:

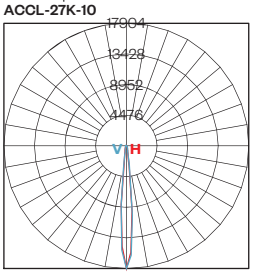
HGL
(Glare Shield)



HCL
(Hexell Louver)

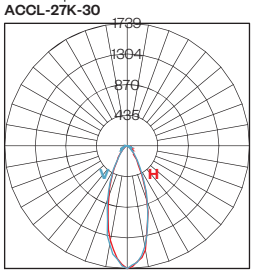
Optical Performance:

Polar Graph
ACCL-27K-10



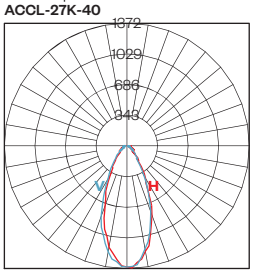
Maximum Candela = 17904
Located At Horizontal Angle = 0
Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

Polar Graph
ACCL-27K-30



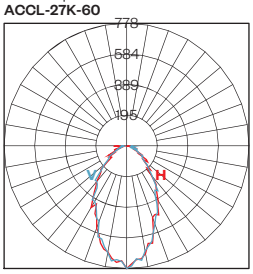
Maximum Candela = 1739
Located At Horizontal Angle = 0
Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

Polar Graph
ACCL-27K-40



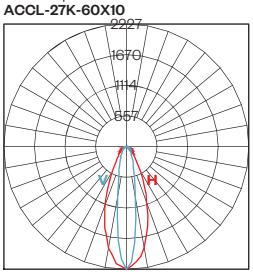
Maximum Candela = 1372
Located At Horizontal Angle = 2.5
Vertical Angle = -2.5
H - Horizontal Axial Candela
V - Vertical Axial Candela

Polar Graph
ACCL-27K-60



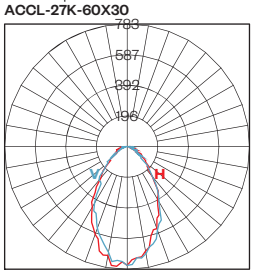
Maximum Candela = 778
Located At Horizontal Angle = 0
Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

Polar Graph
ACCL-27K-60X10



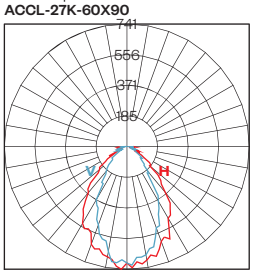
Maximum Candela = 2227
Located At Horizontal Angle = 0
Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

Polar Graph
ACCL-27K-60X30



Maximum Candela = 783
Located At Horizontal Angle = -5
Vertical Angle = 2.5
H - Horizontal Axial Candela
V - Vertical Axial Candela

Polar Graph
ACCL-27K-60X90



Maximum Candela = 741
Located At Horizontal Angle = -2.5
Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

Data represents the use of light shaping filters
Complete photometric data (ies format) available upon request

Ordering Information

Model	CCT	Beam Spread		Approx. Lumens	Total Efficacy	Mounting	Finish	Accessories	Optical Accessories
ACCL	**27** (2,700K) **30** (3,000K) **35** (3,500K)	Symmetric Pattern	**10** (10°)	1240-1360	72-80 lm/W	**K** (Knuckle)	**BLK** **CLB** **GRN** **CSTM**	**GSP17** **GSP2** **JBOX** **JCOV**	**HCL** **HGL**
			15 (15°)	1190-1305	70-76 lm/W				
			30 (30°)	1140-1250	67-73 lm/W				
			40 (40°)	1130-1250	66-73 lm/W				
			60 (60°)	1110-1190	65-70 lm/W				
		Horizontal Pattern	**H6010** (60x10)	980-1180	57-69 lm/W				
			H6030 (60x30)	1070-1190	62-70 lm/W				
			H9060 (90x60)	1050-1170	61-68 lm/W				
		Vertical Pattern	**V6010** (60x10)	1180-980	69-57 lm/W				
			V6030 (60x30)	1190-1070	70-62 lm/W				
			V9060 (90x60)	1170-1050	68-61 lm/W				

Ordering options shown as **BOLD**. Example: **ACCL/27/40/K/BLK**

Cree Edge™ Series

P1, P2, P3, P4, P5

LED Area Luminaire – Round

Product Description

The Cree Edge™ Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weathertight LED driver compartment, spun vented cover, high performance aluminum heat sinks and leaf/debris guard.
Applications: Auto Dealerships, parking lots, campuses, facade lighting and general site lighting applications

Performance Summary

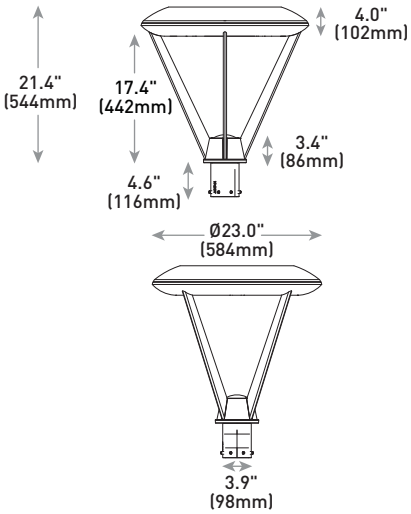
- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI
- **CCT:** 4000K (+/- 300K), 5700K (+/- 500K) standard
- **Limited Warranty†:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

† See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed	
Bird Spikes XA-BRDSPK	**Backlight Control Shields** XA-20BLS-4 - Four-pack - Unpainted stainless steel

R3 Mount



LED Count (x10)	Weight
04	33.8 lbs. (15.3kg)
06	35.2 lbs. (15.9kg)
08	37.0 lbs. (16.8kg)
10	40.7 lbs. (18.5kg)
12	42.4 lbs. (19.3kg)

R4/R5 Mount - see page 14 for weight & dimensions

Ordering Information

Example: ARE-EDR-2M-R3-12-E-UL-SV-350

ARE-EDR				E				
Product	**Optic**	**Mounting***	**LED Count (x10)**	**Series**	**Voltage**	**Color Options**	**Drive Current**	**Options**
ARE-EDR	**2M** Type II Medium **2MB** Type II Medium w/BLS **2MP** Type II Medium w/Partial BLS **3M** Type III Medium **3MB** Type III Medium w/BLS **3MP** Type III Medium w/Partial BLS **4M** Type IV Medium **4MB** Type IV Medium w/BLS **4MP** Type IV Medium w/Partial BLS **5M** Type V Medium **5S** Type V Short	**R3** Spider, Center Tenon, 2-3/8" to 3" OD **R4** Spider, Center Direct, 4" Square **R5** Spider, Center Direct, 5" Round	**04**** **06**** **08**** **10** **12**	**E**	**UL** Universal 120-277V **UH** Universal 347-480V	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**350** 350mA **525** 525mA **700** 700mA - Available with 40-60 LEDs	**DIM 0-10V Dimming** - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current **F Fuse** - When code dictates fusing, use time delay fuse - Available with UL voltage only - Available for U.S. applications only **HL Hi/Low (Dual Circuit Input)** - Refer to HL spec sheet for details - Sensor not included **P Photocell** - Available with UL voltage only **40K 4000K Color Temperature** - Minimum 70 CRI - Color temperature per luminaire

* Reference EPA and pole configuration suitability data beginning on page 14
** Consists of multiple 20 LED light bars. 40, 60, and 80 LED units use blanks as needed in place of populated light bars
NOTE: Price adder may apply depending on configuration

US: lighting.cree.com/lighting T (800) 236-6800 F (262) 504-5415
Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment, spun vented cover, and high performance aluminum heat sinks
- R3 spider mount hub slip-fits over a 2.375" (60mm) to 3" (76mm) O.D. steel or aluminum tenon or pole and secures with eight set screws
- R4 spider mount fits directly inside 4" (102mm) square pole and secures to pole with four set screws
- R5 spider mount fits directly inside of a 5" (127mm) round pole to provide a clean hardware-less outer appearance
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available
- **Weight:** See Dimensions and Weight charts on pages 1 and 14

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- **10V Source Current:** 40-80 LEDs: 0.15mA; 100-120 LEDs: 0.30mA
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Enclosure rated IP66 per IEC 60529 when ordered without P option
- Certified to ANSI C136.31-2001, 1.5G normal vibration standards when ordered with R3, R4 and R5 mounts
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified. Exceptions apply when ordered with full backlight control or 3MP optic. Please refer to www.designlights.org/QPL for most current information
- Meets Buy American requirements within ARRA

Electrical Data*

LED Count (x10)	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
350mA							
04	46	0.36	0.23	0.21	0.20	0.15	0.12
06	66	0.52	0.31	0.28	0.26	0.20	0.15
08	90	0.75	0.44	0.38	0.34	0.26	0.20
10	110	0.92	0.53	0.47	0.41	0.32	0.24
12	130	1.10	0.63	0.55	0.48	0.38	0.28
525mA							
04	70	0.58	0.34	0.31	0.28	0.21	0.16
06	101	0.84	0.49	0.43	0.38	0.30	0.22
08	133	1.13	0.66	0.58	0.51	0.39	0.28
10	171	1.43	0.83	0.74	0.66	0.50	0.38
12	202	1.69	0.98	0.86	0.77	0.59	0.44
700mA							
04	93	0.78	0.46	0.40	0.36	0.27	0.20
06	134	1.14	0.65	0.57	0.50	0.39	0.29

* Electrical data at 25˚C (77˚F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF)[1]

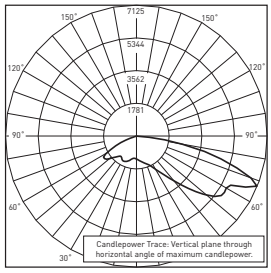
Ambient	Initial LMF	25K hr Projected[2] LMF	50K hr Projected[2] LMF	75K hr Calculated[3] LMF	100K hr Calculated[3] LMF
5˚C (41˚F)	1.04	1.01	0.99	0.98	0.96
10˚C (50˚F)	1.03	1.00	0.98	0.97	0.95
15˚C (59˚F)	1.02	0.99	0.97	0.96	0.94
20˚C (68˚F)	1.01	0.98	0.96	0.95	0.93
25˚C (77˚F)	1.00	0.97	0.95	0.94	0.92

[1] Lumen maintenance values at 25˚C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2] In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip)
[3] In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip)

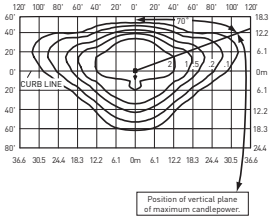
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/cree-edge-series-1

2M



CSA Test Report #: 6371
ARE-EDG-2M-**-06-E-UL-700-40K
Initial Delivered Lumens: 10,985



ARE-EDR-2M-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 17,504
Initial FC at grade

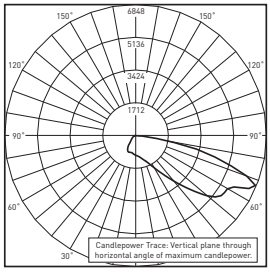
Type II Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	5,003	B1 U0 G1	5,102	B1 U0 G1
06	7,418	B2 U0 G2	7,565	B2 U0 G2
08	9,891	B2 U0 G2	10,087	B2 U0 G2
10	12,334	B2 U0 G2	12,578	B2 U0 G2
12	14,801	B3 U0 G3	15,094	B3 U0 G3
525mA				
04	7,099	B2 U0 G2	7,248	B2 U0 G2
06	10,527	B2 U0 G2	10,748	B2 U0 G2
08	14,037	B3 U0 G3	14,331	B3 U0 G3
10	17,504	B3 U0 G3	17,870	B3 U0 G3
12	21,004	B3 U0 G3	21,444	B3 U0 G3
700mA				
04	8,379	B2 U0 G2	8,549	B2 U0 G2
06	12,425	B2 U0 G2	12,678	B2 U0 G2

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

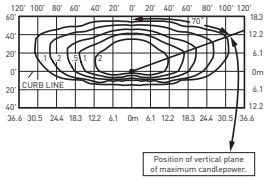
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/cree-edge-series-1

2MB



CSA Test Report #: 6447
ARE-EDG-2MB-**-06-E-UL-700-40K
Initial Delivered Lumens: 7,953



ARE-EDR-2MB-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,185
Initial FC at grade

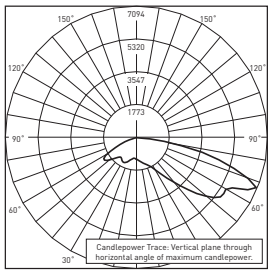
Type II Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	3,768	B1 U0 G1	3,843	B1 U0 G1
06	5,588	B1 U0 G1	5,698	B1 U0 G1
08	7,450	B1 U0 G2	7,598	B1 U0 G2
10	9,291	B1 U0 G2	9,475	B1 U0 G2
12	11,149	B1 U0 G2	11,370	B1 U0 G2
525mA				
04	5,348	B1 U0 G1	5,460	B1 U0 G1
06	7,930	B1 U0 G2	8,096	B1 U0 G2
08	10,573	B1 U0 G2	10,794	B1 U0 G2
10	13,185	B1 U0 G2	13,461	B1 U0 G2
12	15,821	B2 U0 G2	16,153	B2 U0 G3
700mA				
04	6,311	B1 U0 G1	6,440	B1 U0 G1
06	9,359	B1 U0 G2	9,549	B1 U0 G2

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

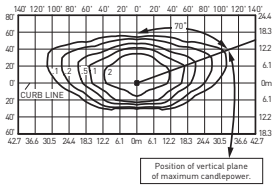
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/cree-edge-series-1

2MP



CSA Test Report #: 6361
ARE-EDG-2MP-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,912



ARE-EDR-2MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,458
Initial FC at grade

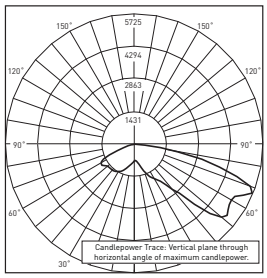
Type II Medium Distribution w/Partial BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	4,418	B1 U0 G1	4,505	B1 U0 G1
06	6,551	B2 U0 G1	6,681	B2 U0 G1
08	8,735	B2 U0 G2	8,908	B2 U0 G2
10	10,892	B2 U0 G2	11,108	B2 U0 G2
12	13,071	B2 U0 G2	13,330	B2 U0 G2
525mA				
04	6,270	B1 U0 G1	6,401	B2 U0 G1
06	9,297	B2 U0 G2	9,492	B2 U0 G2
08	12,396	B2 U0 G2	12,656	B2 U0 G2
10	15,458	B2 U0 G3	15,782	B2 U0 G3
12	18,549	B3 U0 G3	18,938	B3 U0 G3
700mA				
04	7,400	B2 U0 G2	7,550	B2 U0 G2
06	10,973	B2 U0 G2	11,196	B2 U0 G2

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

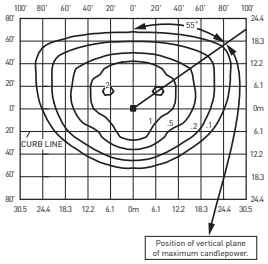
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/cree-edge-series-1

3M



RESTL Test Report #: PL09276-001A
ARE-EDG-3M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,333



ARE-EDR-3M-**-06-E-UL-700-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,779
Initial FC at grade

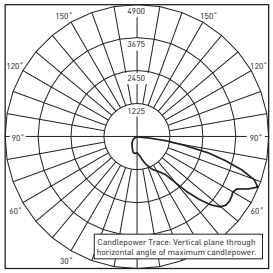
Type III Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	4,743	B1 U0 G1	4,837	B1 U0 G1
06	7,033	B2 U0 G2	7,172	B2 U0 G2
08	9,377	B2 U0 G2	9,563	B2 U0 G2
10	11,693	B3 U0 G3	11,925	B3 U0 G3
12	14,032	B3 U0 G3	14,310	B3 U0 G3
525mA				
04	6,731	B2 U0 G2	6,872	B2 U0 G2
06	9,981	B3 U0 G3	10,190	B3 U0 G3
08	13,307	B3 U0 G3	13,586	B3 U0 G3
10	16,594	B3 U0 G3	16,942	B3 U0 G3
12	19,913	B3 U0 G3	20,330	B3 U0 G3
700mA				
04	7,944	B2 U0 G2	8,105	B2 U0 G2
06	11,779	B3 U0 G3	12,019	B3 U0 G3

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

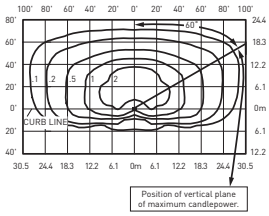
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/cree-edge-series-1

3MB



CSA Test Report #: 6648
ARE-EDG-3MB-**-06-E-UL-700
Initial Delivered Lumens: 7,740



ARE-EDR-3MB-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 12,275
Initial FC at grade

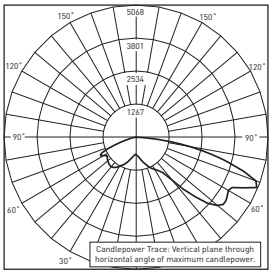
Type III Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	3,508	B1 U0 G1	3,578	B1 U0 G1
06	5,202	B1 U0 G2	5,305	B1 U0 G2
08	6,936	B1 U0 G2	7,074	B1 U0 G2
10	8,650	B1 U0 G2	8,821	B1 U0 G2
12	10,380	B1 U0 G3	10,585	B1 U0 G3
525mA				
04	4,979	B1 U0 G2	5,083	B1 U0 G2
06	7,383	B1 U0 G2	7,538	B1 U0 G2
08	9,844	B1 U0 G2	10,050	B1 U0 G3
10	12,275	B1 U0 G3	12,532	B1 U0 G3
12	14,730	B2 U0 G3	15,039	B2 U0 G3
700mA				
04	5,876	B1 U0 G2	5,996	B1 U0 G2
06	8,714	B1 U0 G2	8,891	B1 U0 G2

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

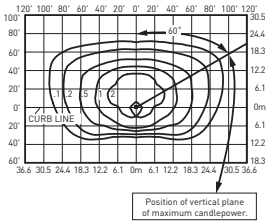
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/cree-edge-series-1

3MP



CSA Test Report #: 6385
ARE-EDG-3MP-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,619



ARE-EDR-3MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 14,548
Initial FC at grade

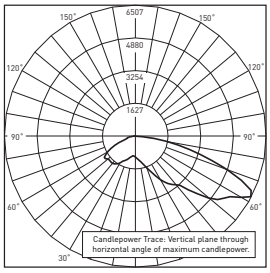
Type III Medium Distribution w/Partial BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	4,158	B1 U0 G1	4,240	B1 U0 G1
06	6,166	B1 U0 G2	6,288	B1 U0 G2
08	8,221	B2 U0 G2	8,384	B2 U0 G2
10	10,252	B2 U0 G2	10,455	B2 U0 G3
12	12,302	B2 U0 G3	12,546	B2 U0 G3
525mA				
04	5,901	B1 U0 G2	6,024	B1 U0 G2
06	8,750	B2 U0 G2	8,933	B2 U0 G2
08	11,667	B2 U0 G3	11,911	B2 U0 G3
10	14,548	B3 U0 G3	14,853	B3 U0 G3
12	17,458	B3 U0 G3	17,824	B3 U0 G3
700mA				
04	6,964	B2 U0 G2	7,106	B2 U0 G2
06	10,327	B2 U0 G2	10,537	B2 U0 G3

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

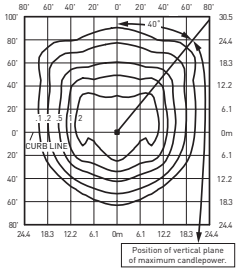
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/cree-edge-series-1

4M



CSA Test Report #: 6438
ARE-EDG-4M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,367



ARE-EDR-4M-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 17,504
Initial FC at grade

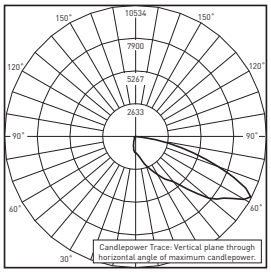
Type IV Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	5,003	B2 U0 G1	5,102	B2 U0 G1
06	7,418	B2 U0 G2	7,565	B2 U0 G2
08	9,891	B2 U0 G2	10,087	B2 U0 G2
10	12,334	B3 U0 G3	12,578	B3 U0 G3
12	14,801	B3 U0 G3	15,094	B3 U0 G3
525mA				
04	7,099	B2 U0 G2	7,248	B2 U0 G2
06	10,527	B2 U0 G2	10,748	B2 U0 G2
08	14,037	B3 U0 G3	14,331	B3 U0 G3
10	17,504	B3 U0 G3	17,870	B3 U0 G3
12	21,004	B3 U0 G3	21,444	B3 U0 G3
700mA				
04	8,379	B2 U0 G2	8,549	B2 U0 G2
06	12,425	B3 U0 G3	12,678	B3 U0 G3

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

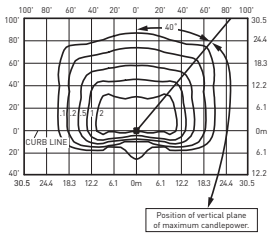
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/cree-edge-series-1

4MB



CSA Test Report #: 6449
ARE-EDG-4MB-**-12-E-UL-525-40K
Initial Delivered Lumens: 13,155



ARE-EDR-4MB-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,185
Initial FC at grade

Type IV Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	3,768	B1 U0 G1	3,843	B1 U0 G1
06	5,588	B1 U0 G1	5,698	B1 U0 G2
08	7,450	B1 U0 G2	7,598	B1 U0 G2
10	9,291	B1 U0 G2	9,475	B1 U0 G2
12	11,149	B1 U0 G2	11,370	B1 U0 G2
525mA				
04	5,348	B1 U0 G1	5,460	B1 U0 G1
06	7,930	B1 U0 G2	8,096	B1 U0 G2
08	10,573	B1 U0 G2	10,794	B1 U0 G2
10	13,185	B1 U0 G2	13,461	B1 U0 G2
12	15,821	B2 U0 G3	16,153	B2 U0 G3
700mA				
04	6,311	B1 U0 G2	6,440	B1 U0 G2
06	9,359	B1 U0 G2	9,549	B1 U0 G2

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

Photometry

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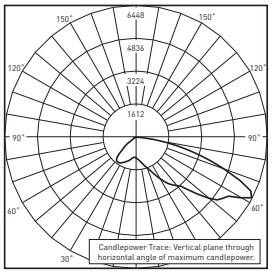
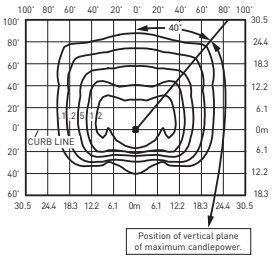
4MP



CSA Test Report #: 6417
ARE-EDG-4MP-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,989



ARE-EDR-4MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,458
Initial FC at grade

Type IV Medium Distribution w/Partial BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	4,418	B1 U0 G1	4,505	B1 U0 G1
06	6,551	B2 U0 G1	6,681	B2 U0 G1
08	8,735	B2 U0 G2	8,908	B2 U0 G2
10	10,892	B2 U0 G2	11,108	B2 U0 G2
12	13,071	B2 U0 G2	13,330	B2 U0 G2
525mA				
04	6,270	B2 U0 G1	6,401	B2 U0 G1
06	9,297	B2 U0 G2	9,492	B2 U0 G2
08	12,396	B2 U0 G2	12,656	B2 U0 G2
10	15,458	B3 U0 G2	15,782	B3 U0 G2
12	18,549	B3 U0 G2	18,938	B3 U0 G3
700mA				
04	7,400	B2 U0 G2	7,550	B2 U0 G2
06	10,973	B2 U0 G2	11,196	B2 U0 G2

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

Photometry

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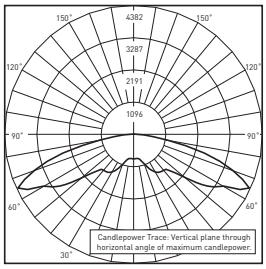
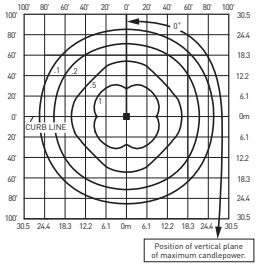
5M



RESTLTest Report #: PL09285-001
ARE-EDG-5M-**-06-E-UL-700-40K
Initial Delivered Lumens: 13,136



ARE-EDR-5M-**-06-E-UL-700-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,070
Initial FC at grade

Type V Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	5,262	B3 U0 G1	5,367	B3 U0 G1
06	7,804	B3 U0 G2	7,958	B3 U0 G2
08	10,405	B4 U0 G2	10,611	B4 U0 G2
10	12,975	B4 U0 G2	13,232	B4 U0 G2
12	15,570	B4 U0 G3	15,878	B4 U0 G3
525mA				
04	7,468	B3 U0 G2	7,625	B3 U0 G2
06	11,074	B4 U0 G2	11,306	B4 U0 G2
08	14,766	B4 U0 G2	15,075	B4 U0 G3
10	18,413	B4 U0 G3	18,799	B4 U0 G3
12	22,096	B5 U0 G3	22,558	B5 U0 G3
700mA				
04	8,814	B3 U0 G2	8,993	B3 U0 G2
06	13,070	B4 U0 G2	13,336	B4 U0 G2

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

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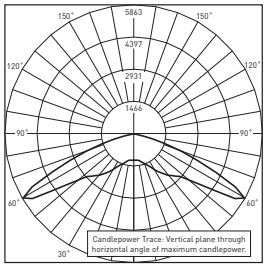
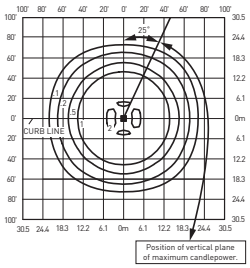
5S



Restl Test Report #: PL09286-001A
ARE-EDG-5S-**-06-E-UL-700-40K
Initial Delivered Lumens: 14,123



ARE-EDR-5S-**-06-E-UL-700-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 14,523
Initial FC at grade

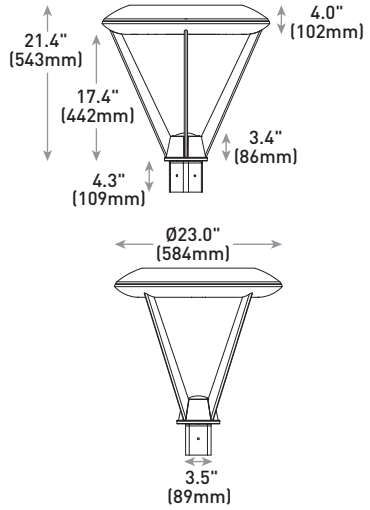
Type V Short Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	5,847	B3 U0 G1	5,963	B3 U0 G1
06	8,671	B3 U0 G1	8,842	B3 U0 G1
08	11,561	B3 U0 G2	11,790	B3 U0 G2
10	14,416	B4 U0 G2	14,702	B4 U0 G2
12	17,300	B4 U0 G2	17,642	B4 U0 G2
525mA				
04	8,298	B3 U0 G1	8,472	B3 U0 G1
06	12,305	B3 U0 G2	12,563	B3 U0 G2
08	16,406	B4 U0 G2	16,750	B4 U0 G2
10	20,459	B4 U0 G2	20,887	B4 U0 G2
12	24,551	B4 U0 G2	25,065	B4 U0 G2
700mA				
04	9,793	B3 U0 G1	9,993	B3 U0 G2
06	14,523	B4 U0 G2	14,818	B4 U0 G2

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

Luminaire EPA

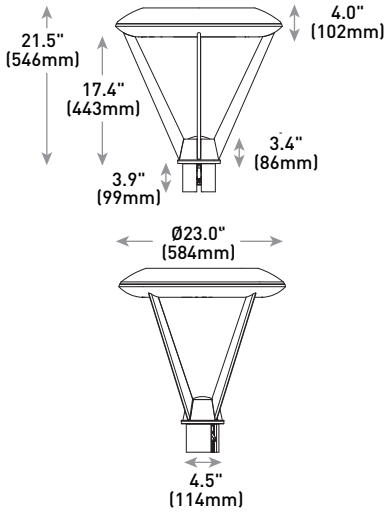
Post Top Mount – ARE-EDR-R3/R4/R5		
LED Count (x10)	Single R3	Single R4/R5
04	1.81	1.67
06	1.81	1.67
08	1.81	1.67
10	1.81	1.67
12	1.81	1.67

R4 Mount



LED Count (x10)	Weight
04	36.2 lbs. (16.4kg)
06	37.6 lbs. (17.0kg)
08	39.3 lbs. (17.8kg)
10	43.0 lbs. (19.5kg)
12	44.8 lbs. (20.3kg)

R5 Mount



LED Count (x10)	Weight
04	33.3 lbs. (15.1kg)
06	34.6 lbs. (15.7kg)
08	36.4 lbs. (16.5kg)
10	40.1 lbs. (18.2kg)
12	41.9 lbs. (19.0kg)

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Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

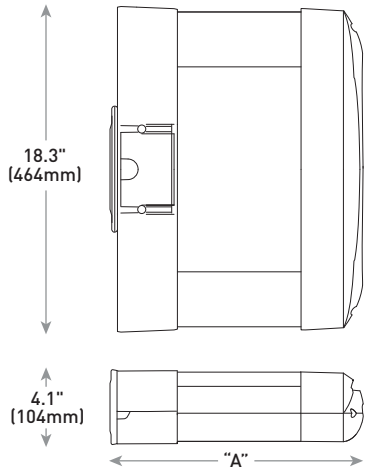
Cree Edge™ Series

W1

LED Security Wall Pack Luminaire

Product Description

The Cree Edge™ wall mount luminaire has a slim, low profile design. The luminaire end caps are made from rugged die cast aluminum with integral, weathertight LED driver compartments and high performance aluminum heat sinks specifically designed for LED applications. Housing is rugged aluminum. Includes a lightweight mounting box for installation over standard and mud ring single gang J-Boxes. Secures to wall with four 3/16" (5mm) screws (by others). Conduit entry from top, bottom, sides and rear. Allows mounting for uplight or downlight. Designed and approved for easy through-wiring. Includes leaf/debris guard.
Applications: General area and security lighting



Performance Summary

- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI
- **CCT:** 4000K (+/- 300K), 5700K (+/- 500K) standard
- **Limited Warranty†:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

† See http://lighting.cree.com/warranty for warranty terms

Accessories

Field-Installed	
Bird Spikes XA-BRDSPK	**Hand-Held Remote** XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

LED Count (x10)	Dim. "A"	Weight
02	9.9" (251mm)	20 lbs. (9.1kg)
04	11.9" (303mm)	22 lbs. (10.0kg)
06	13.9" (353mm)	25 lbs. (11.3kg)
08	15.9" (404mm)	27 lbs. (12.2kg)
10	17.9" (455mm)	31 lbs. (14.1kg)
12	19.9" (505mm)	32 lbs. (14.5kg)

Ordering Information

Example: SEC-EDG-2M-WM-06-E-UL-SV-700

SEC-EDG		WM		E				
Product	**Optic**	**Mounting**	**LED Count (x10)**	**Series**	**Voltage**	**Color Options**	**Drive Current**	**Options**
SEC-EDG	**2M** Type II Medium **2MB** Type II Medium w/BLS **2S** Type II Short **2SB** Type II Short w/BLS **3M** Type III Medium **3MB** Type III Medium w/BLS **4M** Type IV Medium **4MB** Type IV Medium w/BLS	**WM** Wall Mount	**02** **04** **06** **08** **10** **12**	**E**	**UL** Universal 120-277V **UH** Universal 347-480V **34** 347V	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**350** 350mA **525** 525mA -Available with 20-80 LEDs **700** 700mA -Available with 20-60 LEDs	**DIM 0-10V Dimming** - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current **F Fuse** - Refer to ML spec sheet for availability with ML options - Available with UL voltage only - Available for U.S. applications only - When code dictates fusing, use time delay fuse **ML Multi-Level** - Refer to ML spec sheet for details - Intended for downlight applications with 0° tilt **P Photocell** - Refer to ML spec sheet for availability with ML options - Must specify UL or 34 voltage **PML Programmable Multi-Level** - Refer to PML spec sheet for details - Intended for downlight applications with 0° tilt **40K 4000K Color Temperature** - Minimum 70 CRI - Color temperature per luminaire

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile design
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance aluminum heat sinks specifically designed for LED applications
- Housing is rugged aluminum
- Furnished with low copper, light weight mounting box designed for installation over standard and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- Secures to wall with four 3/16" (5mm) screws (by others)
- Conduit entry from top, bottom, sides, and rear
- Allows mounting for uplight or downlight
- Designed and approved for easy through-wiring
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- **Weight:** See Dimensions and Weight Chart on page 1

ELECTRICAL SYSTEM

- **Input Voltage:** 120–277V or 347–480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral weathertight J-Box with leads (wire nuts) for easy power hook up
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- **Maximum 10V Source Current:** 20 LED (350mA): 10mA; 20LED (525 & 700 mA) and 40-120 LED: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Enclosure rated IP66 per IEC 60529 when ordered without P, PML or ML options
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified with select SKUs. Refer to https://www.designlights.org/search/ for most current information
- Meets Buy American requirements within ARRA

Electrical Data*

LED Count (x10)	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
350mA							
02	25	0.21	0.13	0.11	0.10	0.08	0.07
04	46	0.36	0.23	0.21	0.20	0.15	0.12
06	66	0.52	0.31	0.28	0.26	0.20	0.15
08	90	0.75	0.44	0.38	0.34	0.26	0.20
10	110	0.92	0.53	0.47	0.41	0.32	0.24
12	130	1.10	0.63	0.55	0.48	0.38	0.28
525mA							
02	37	0.30	0.19	0.17	0.16	0.12	0.10
04	70	0.58	0.34	0.31	0.28	0.21	0.16
06	101	0.84	0.49	0.43	0.38	0.30	0.22
08	133	1.13	0.66	0.58	0.51	0.39	0.28
700mA							
02	50	0.41	0.25	0.22	0.20	0.15	0.12
04	93	0.78	0.46	0.40	0.36	0.27	0.20
06	134	1.14	0.65	0.57	0.50	0.39	0.29

* Electrical data at 25˚C (77˚F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF)[1]

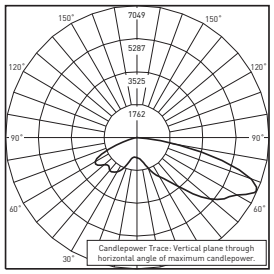
Ambient	Initial LMF	25K hr Projected[2] LMF	50K hr Projected[2] LMF	75K hr Calculated[3] LMF	100K hr Calculated[3] LMF
5˚C (41˚F)	1.04	1.01	0.99	0.98	0.96
10˚C (50˚F)	1.03	1.00	0.98	0.97	0.95
15˚C (59˚F)	1.02	0.99	0.97	0.96	0.94
20˚C (68˚F)	1.01	0.98	0.96	0.95	0.93
25˚C (77˚F)	1.00	0.97	0.95	0.94	0.92

[1] Lumen maintenance values at 25˚C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2] In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)
[3] In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

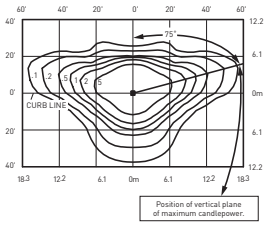
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/wall-mount/cree-edge-series-5

2M



ITL Test Report #: 79174
SEC-EDG-2M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,128

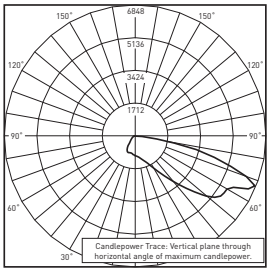


SEC-EDG-2M-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 11,835
Initial FC at grade

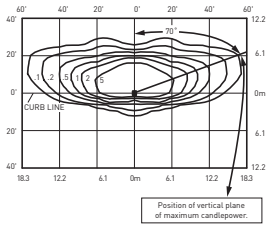
Type II Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,138	B1 U0 G1	2,220	B1 U0 G1
04	4,276	B1 U0 G1	4,440	B1 U0 G1
06	6,340	B2 U0 G2	6,584	B2 U0 G2
08	8,454	B2 U0 G2	8,779	B2 U0 G2
10	10,542	B3 U0 G3	10,947	B3 U0 G3
12	12,650	B3 U0 G3	13,137	B3 U0 G3
525mA				
02	2,993	B1 U0 G1	3,108	B1 U0 G1
04	5,986	B2 U0 G2	6,216	B2 U0 G2
06	8,876	B2 U0 G2	9,218	B2 U0 G2
08	11,835	B3 U0 G3	12,290	B3 U0 G3
700mA				
02	3,656	B1 U0 G1	3,796	B1 U0 G1
04	7,311	B2 U0 G2	7,593	B2 U0 G2
06	10,842	B3 U0 G3	11,259	B3 U0 G3

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

2MB



CSA Test Report #: 6447
ARE-EDG-2MB-**-06-E-UL-700-40K
Initial Delivered Lumens: 7,953



SEC-EDG-2MB-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 8,915
Initial FC at grade

Type II Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,610	B0 U0 G1	1,672	B0 U0 G1
04	3,221	B0 U0 G1	3,345	B0 U0 G1
06	4,776	B1 U0 G1	4,959	B1 U0 G1
08	6,368	B1 U0 G1	6,613	B1 U0 G2
10	7,941	B1 U0 G2	8,246	B1 U0 G2
12	9,529	B1 U0 G2	9,895	B1 U0 G2
525mA				
02	2,254	B0 U0 G1	2,341	B0 U0 G1
04	4,509	B1 U0 G1	4,682	B1 U0 G1
06	6,686	B1 U0 G2	6,943	B1 U0 G2
08	8,915	B1 U0 G2	9,258	B1 U0 G2
700mA				
02	2,754	B0 U0 G1	2,860	B0 U0 G1
04	5,507	B1 U0 G1	5,719	B1 U0 G1
06	8,167	B1 U0 G2	8,481	B1 U0 G2

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

Photometry

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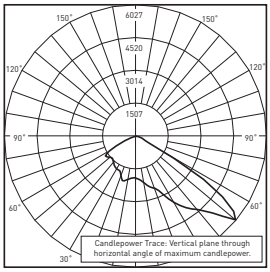
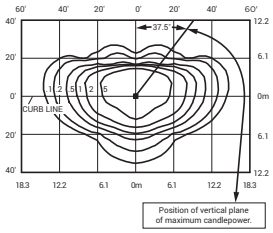
2S



ITL Test Report #: 79175
SEC-EDG-2S-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,704

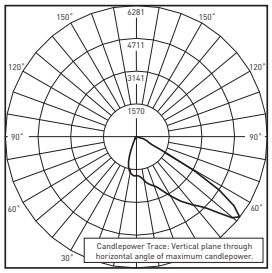


SEC-EDG-2S-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 12,604
Initial FC at grade

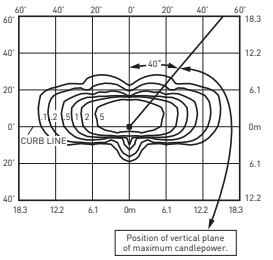
Type II Short Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,277	B1 U0 G1	2,364	B1 U0 G1
04	4,553	B1 U0 G1	4,728	B1 U0 G1
06	6,752	B2 U0 G2	7,012	B2 U0 G2
08	9,003	B2 U0 G2	9,349	B2 U0 G2
10	11,226	B3 U0 G3	11,658	B3 U0 G3
12	13,472	B3 U0 G3	13,990	B3 U0 G3
525mA				
02	3,187	B1 U0 G1	3,310	B1 U0 G1
04	6,375	B2 U0 G2	6,620	B2 U0 G2
06	9,453	B2 U0 G2	9,816	B3 U0 G3
08	12,604	B3 U0 G3	13,088	B3 U0 G3
700mA				
02	3,893	B1 U0 G1	4,043	B1 U0 G1
04	7,786	B2 U0 G2	8,086	B2 U0 G2
06	11,546	B3 U0 G3	11,990	B3 U0 G3

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

2SB



CSA Test Report #: 6454
ARE-EDG-2SB-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,202



SEC-EDG-2SB-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 9,683
Initial FC at grade

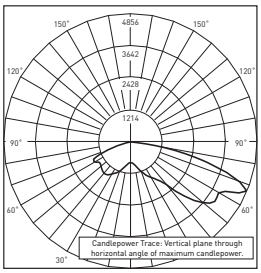
Type II Short Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,749	B0 U0 G1	1,816	B0 U0 G1
04	3,498	B1 U0 G1	3,633	B1 U0 G1
06	5,188	B1 U0 G1	5,387	B1 U0 G1
08	6,917	B1 U0 G1	7,183	B1 U0 G1
10	8,625	B2 U0 G1	8,957	B2 U0 G1
12	10,350	B2 U0 G2	10,748	B2 U0 G2
525mA				
02	2,449	B1 U0 G1	2,543	B1 U0 G1
04	4,898	B1 U0 G1	5,086	B1 U0 G1
06	7,263	B1 U0 G1	7,542	B1 U0 G1
08	9,683	B2 U0 G2	10,056	B2 U0 G2
700mA				
02	2,991	B1 U0 G1	3,106	B1 U0 G1
04	5,982	B1 U0 G1	6,212	B1 U0 G1
06	8,871	B2 U0 G1	9,212	B2 U0 G2

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

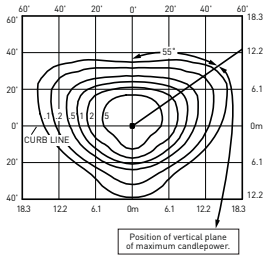
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/wall-mount/cree-edge-series-5

3M



ITLTest Report #: 79173
SEC-EDG-3M-**-06-E-UL-700-40K
Initial Delivered Lumens: 10,343

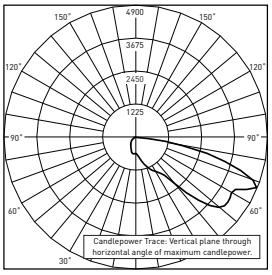


SEC-EDG-3M-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 11,220
Initial FC at grade

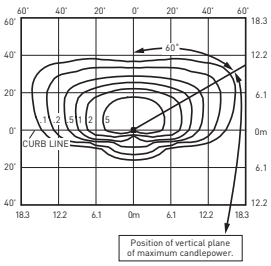
Type III Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,027	B1 U0 G1	2,105	B1 U0 G1
04	4,054	B1 U0 G1	4,209	B1 U0 G1
06	6,011	B2 U0 G2	6,242	B2 U0 G2
08	8,015	B2 U0 G2	8,323	B2 U0 G2
10	9,994	B3 U0 G3	10,379	B3 U0 G3
12	11,993	B3 U0 G3	12,454	B3 U0 G3
525mA				
02	2,837	B1 U0 G1	2,947	B1 U0 G1
04	5,675	B2 U0 G2	5,893	B2 U0 G2
06	8,415	B2 U0 G2	8,739	B2 U0 G2
08	11,220	B3 U0 G3	11,652	B3 U0 G3
700mA				
02	3,466	B1 U0 G1	3,599	B1 U0 G1
04	6,932	B2 U0 G2	7,198	B2 U0 G2
06	10,279	B3 U0 G3	10,674	B3 U0 G3

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

3MB



CSA Test Report #: 6448
ARE-EDG-3MB-**-06-E-UL-700
Initial Delivered Lumens: 7,740



SEC-EDG-3MB-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 8,300
Initial FC at grade

Type III Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,499	B1 U0 G1	1,557	B1 U0 G1
04	2,999	B1 U0 G1	3,114	B1 U0 G1
06	4,446	B1 U0 G1	4,617	B1 U0 G1
08	5,929	B1 U0 G2	6,157	B1 U0 G2
10	7,393	B1 U0 G2	7,677	B1 U0 G2
12	8,872	B1 U0 G2	9,213	B1 U0 G2
525mA				
02	2,099	B1 U0 G1	2,180	B1 U0 G1
04	4,198	B1 U0 G1	4,359	B1 U0 G1
06	6,225	B1 U0 G2	6,464	B1 U0 G2
08	8,300	B1 U0 G2	8,619	B1 U0 G2
700mA				
02	2,564	B1 U0 G1	2,662	B1 U0 G1
04	5,127	B1 U0 G2	5,325	B1 U0 G2
06	7,603	B1 U0 G2	7,896	B1 U0 G2

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

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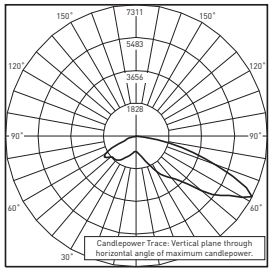
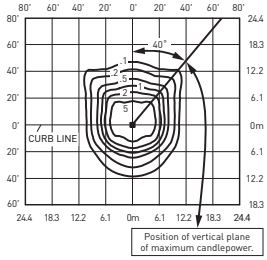
4M



ITL Test Report #: 78793
SEC-EDG-4M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,607



SEC-EDG-4M-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 11,835
Initial FC at grade

Type IV Medium Distribution				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	2,138	B1 U0 G1	2,220	B1 U0 G1
04	4,276	B1 U0 G1	4,440	B1 U0 G1
06	6,340	B2 U0 G2	6,584	B2 U0 G2
08	8,454	B2 U0 G2	8,779	B2 U0 G2
10	10,542	B2 U0 G2	10,947	B3 U0 G3
12	12,650	B3 U0 G3	13,137	B3 U0 G3
525mA				
02	2,993	B1 U0 G1	3,108	B1 U0 G1
04	5,986	B2 U0 G2	6,216	B2 U0 G2
06	8,876	B2 U0 G2	9,218	B2 U0 G2
08	11,835	B3 U0 G3	12,290	B3 U0 G3
700mA				
02	3,656	B1 U0 G1	3,796	B1 U0 G1
04	7,311	B2 U0 G2	7,593	B2 U0 G2
06	10,842	B3 U0 G3	11,259	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
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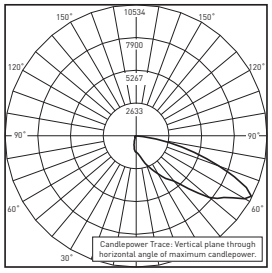
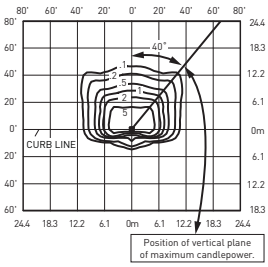
4MB



CSA Test Report #: 6449
ARE-EDG-4MB-**-12-E-UL-525-40K
Initial Delivered Lumens: 13,155



SEC-EDG-4MB-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 8,915
Initial FC at grade

Type IV Medium Distribution w/BLS				
LED Count (x10)	4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
02	1,610	B0 U0 G1	1,672	B0 U0 G1
04	3,221	B1 U0 G1	3,345	B1 U0 G1
06	4,776	B1 U0 G1	4,959	B1 U0 G1
08	6,368	B1 U0 G2	6,613	B1 U0 G2
10	7,941	B1 U0 G2	8,246	B1 U0 G2
12	9,529	B1 U0 G2	9,895	B1 U0 G2
525mA				
02	2,254	B0 U0 G1	2,341	B0 U0 G1
04	4,509	B1 U0 G1	4,682	B1 U0 G1
06	6,686	B1 U0 G2	6,943	B1 U0 G2
08	8,915	B1 U0 G2	9,258	B1 U0 G2
700mA				
02	2,754	B0 U0 G1	2,860	B0 U0 G1
04	5,507	B1 U0 G1	5,719	B1 U0 G2
06	8,167	B1 U0 G2	8,481	B1 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf

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US: lighting.cree.com T (800) 236-6800 F (262) 504-5415 **Canada: www.cree.com/canada** T (800) 473-1234 F (800) 890-7507

Date: _____ Quantity: _____

Company: _____

Project: _____

Washer Quattro AC XB RGBW

The Washer Quattro AC XB RGBW is an AC line powered, high brightness luminaire. The luminaire is controllable via DMX512 with auto-addressing for easy configuration. The system is connected using a daisy chain topology, allowing easy installation to form long run lengths. Remote Device Management (RDM) circuits are built into each luminaire that enables extensive control and monitoring of the entire lighting installation.

IP66

Product Specifications

Light Source	4-in-1 LED cluster × 18
Color Range	RGBW (White CCT 4000K)
Beam Angle	13°, 30°, 40°, 60°
Luminous Flux	3212 lm (13°)
Efficacy	44 lm/W
Lumen Maintenance	L70 @25°C - 80,000hrs
Cover Lens	Tempered glass cover
Housing	Aluminium
Adjustment Options	360° horizontal, 220° vertical
Size (W × H × D)	291mm × 291mm × 218mm 11.5” × 11.5” × 8.6”
Weight	8.3kg / 18.3lbs
Regulatory Listing & Safety Approval	CE, cETLus
Operating Temperature	–30°C to +50°C / –22°F to +122°F (–20°C / –4°F starting)
Storage Temperature	–40°C to +70°C / –40°F to +158°F
Environment	Outdoor (IP66)
Humidity	85%, non-condensing

Electrical Specifications

Input Voltage[1]	100-277V AC 50/60Hz
Power Consumption	85W
Power Factor	≥ 0.9

System Specifications

Power	AC line
Control	DMX512 with auto-addressing, Remote Device Management (RDM)
Power Supply	Built-in

1. Auto-switching. Single phase (line, neutral, and ground).

LED CHARACTERISTICS Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

Lumen measurement compiles with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

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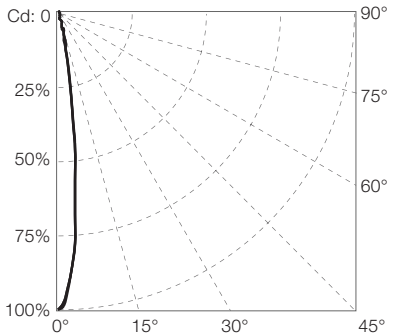
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

LED Source	4-in-1 LED clusters
Beam Angle	13°

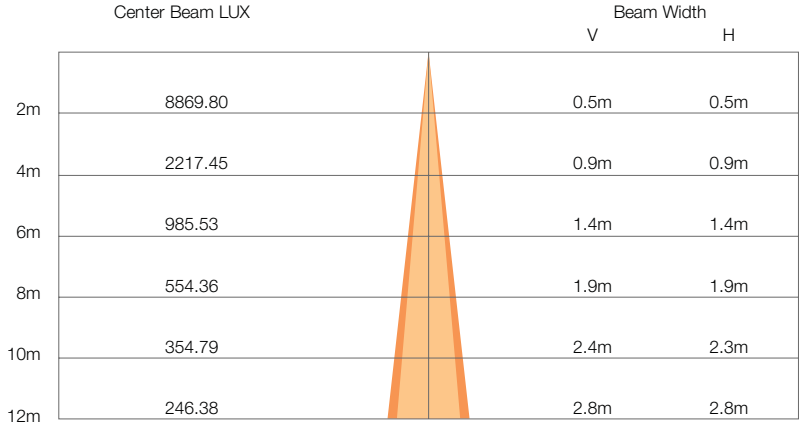
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution @100%	Efficacy (lm/W)
White (full on)	3212.32	35479.21	43.50
White (RGB off)	1791.46	20068.63	58.22
RGB	1502.16	16221.28	30.59
Red	369.01	3871.815	29.47
Green	1066.45	11719.53	37.33
Blue	92.98	989.538	5.25

Illuminance at a Distance



For feet multiply by 3.28

For fc divide by 10.7

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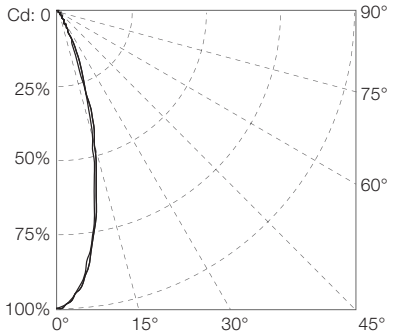
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

LED Source	4-in-1 LED clusters
Beam Angle	30°

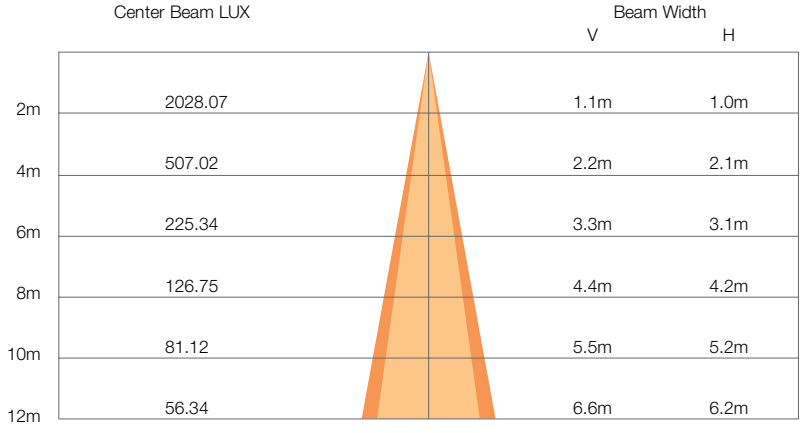
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution @100%	Efficacy (lm/W)
White (full on)	2931.38	8112.26	39.7
White (RGB off)	1633.76	4543.98	53.1
RGB	1354.69	3723.67	27.58
Red	346.23	947.72	27.65
Green	970.62	2662.60	33.97
Blue	84.59	222.96	4.78

Illuminance at a Distance



For feet multiply by 3.28

For fc divide by 10.7

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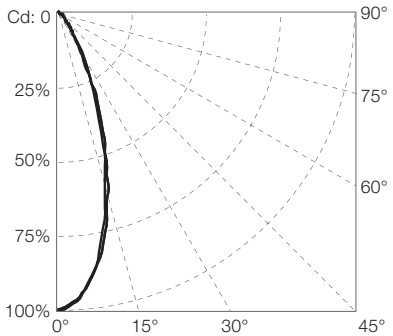
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

LED Source	4-in-1 LED clusters
Beam Angle	40°

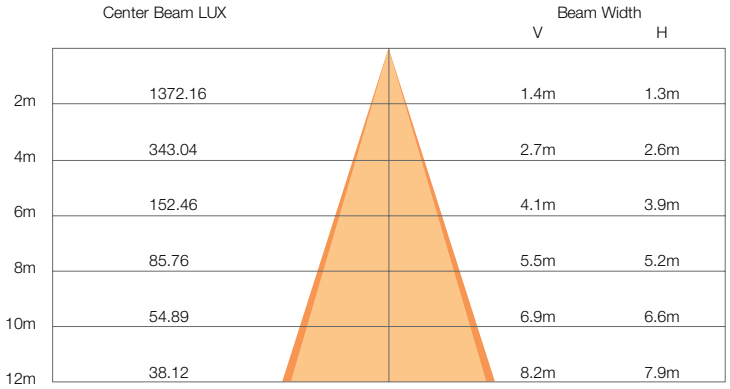
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution @100%	Efficacy (lm/W)
White (full on)	2895.92	5488.632	39.22
White (RGB off)	1610.9	3217.009	52.35
RGB	1351.95	2660.115	27.53
Red	337.75	670.243	26.98
Green	960.79	1885.462	33.63
Blue	83.49	156.96	4.71

Illuminance at a Distance



Vert.Spread: 37.9°
Horiz.Spread: 36.3°

For feet multiply by 3.28

For fc divide by 10.7

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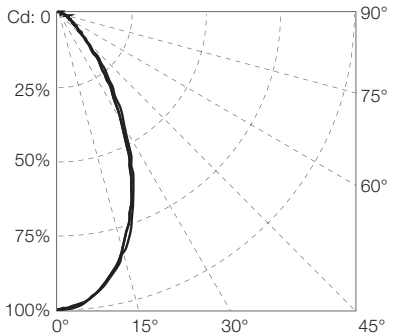
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

LED Source	4-in-1 LED clusters
Beam Angle	60°

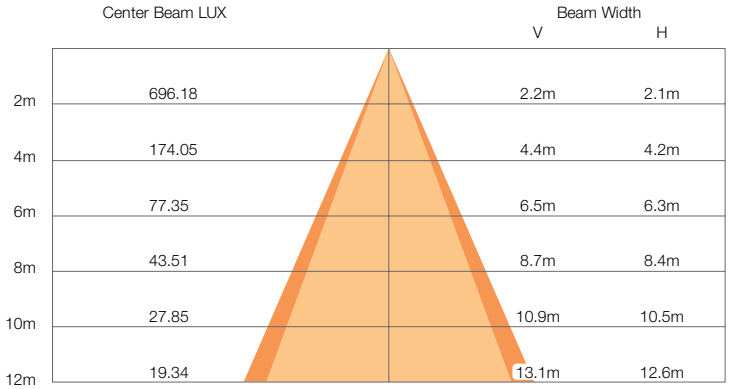
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution @100%	Efficacy (lm/W)
White (full on)	2845.25	2788.23	38.53
White (RGB off)	1592.87	1582.855	51.77
RGB	1332.38	1310.367	27.13
Red	332.48	330.717	26.56
Green	947.08	929.712	33.15
Blue	82.51	78.437	4.66

Illuminance at a Distance



Vert.Spread: 57.2°
Horiz.Spread: 55.4°

For feet multiply by 3.28

For fc divide by 10.7

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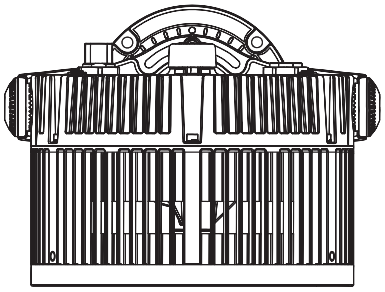
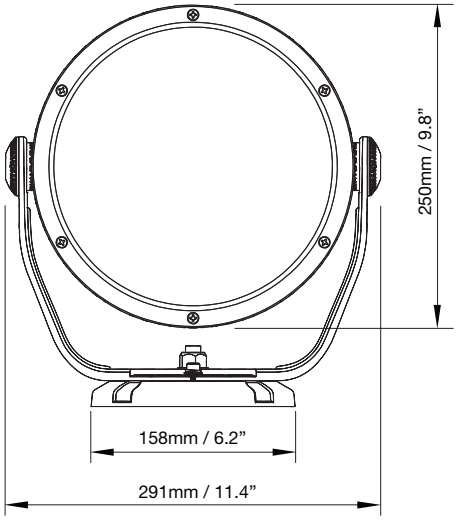
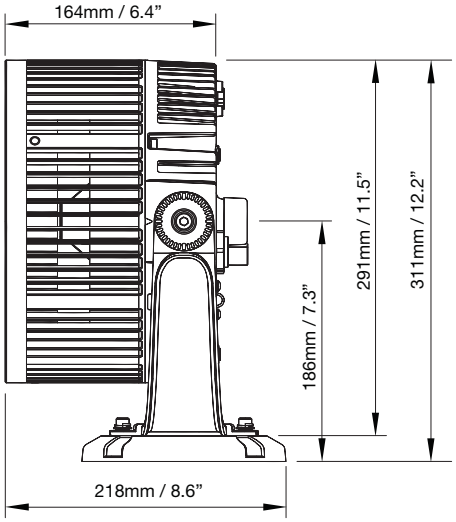
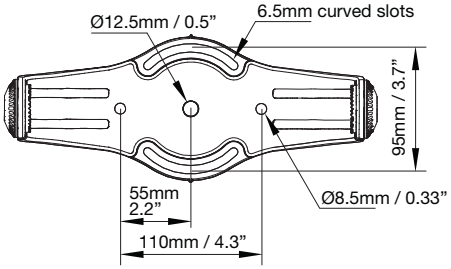
Washer Quattro AC XB RGBW

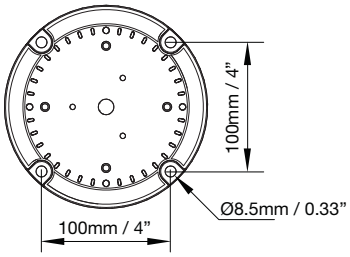
Dimensions

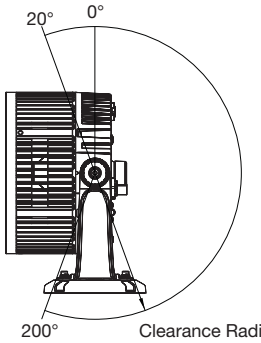


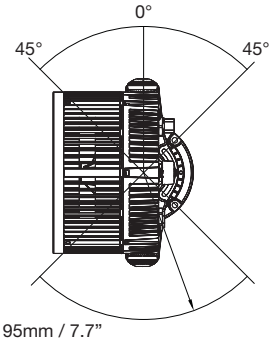












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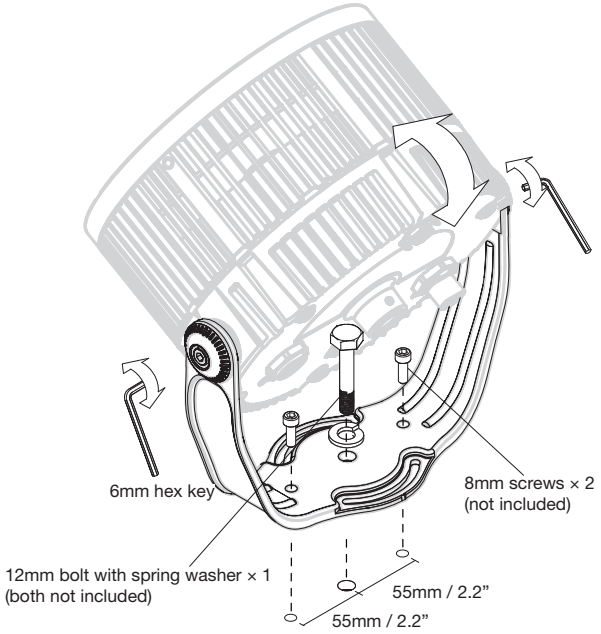
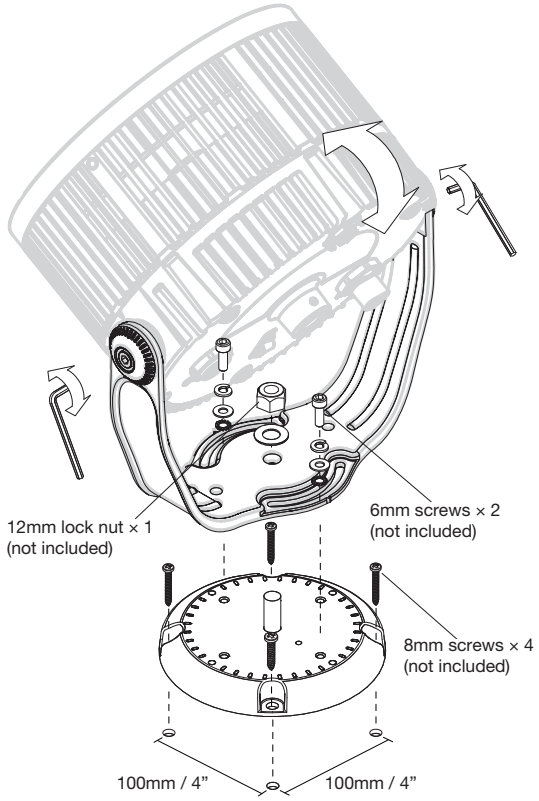
Washer Quattro AC XB RGBW

Mounting

Mounting without base



Mounting with base



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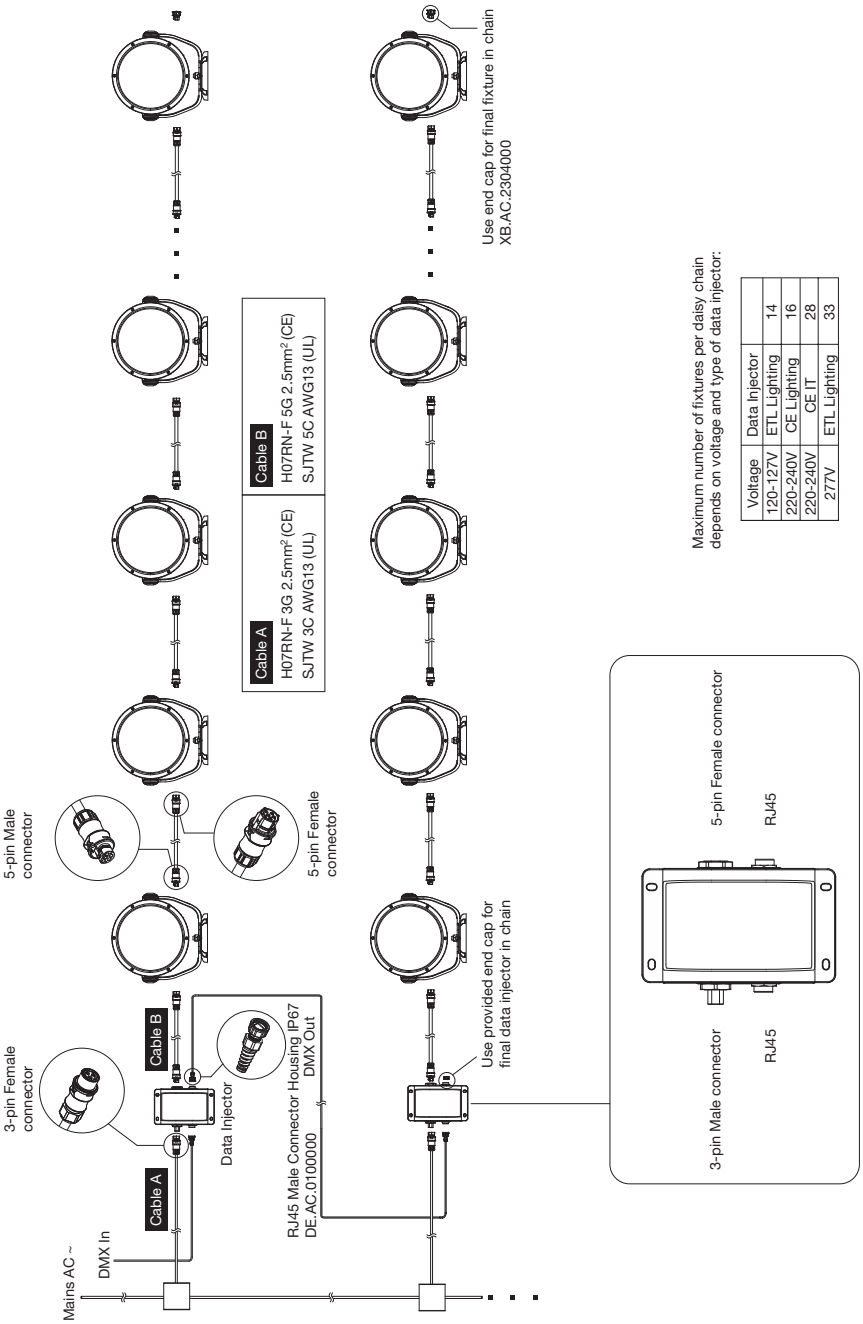
Washer Quattro AC XB RGBW

System Diagram



Maximum number of fixtures per daisy chain depends on voltage and type of data injector:

Voltage	Data Injector	
120-127V	ETL Lighting	14
220-240V	CE Lighting	16
220-240V	CE IT	28
277V	ETL Lighting	33

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Washer Quattro AC XB RGBW

Ordering

Model Number

XB	.	W5	.	9	3	1	N	1	0	0
					Ingress Protection	Color	Beam Angle	Cover Lens		
					3: IP66	1: RGBW	1: 13°	1: Clear		
							3: 30°			
							6: 40°			
							8: 60°			

Fixtures

Model No.	Description	Item Code
XB.W5.9311100	Washer Quattro AC XB4.18 RGBW 13°	AB486980055
XB.W5.9313100	Washer Quattro AC XB4.18 RGBW 30°	AB487130055
XB.W5.9316100	Washer Quattro AC XB4.18 RGBW 40°	AB487100055
XB.W5.9318100	Washer Quattro AC XB4.18 RGBW 60°	AB487080055

Accessories

Model No.	Description	Item Code
XB.AC.4000000	Quattro AC XB Data Injector (ETL Lighting / CE IT)	AB389160055
XB.AC.4000100	Quattro AC XB Data Injector (CE Lighting)	AB444880055
XB.AC.2302000	5-pin Field Installable AC Male Connector IP66	AA438580235
XB.AC.2303000	5-pin Field Installable AC Female Connector IP66	AA438570235
XB.AC.4006000	3-pin Field Installable AC Female Connector IP66	AB389040035
XE.ID.0204000	AC XB Interconnection Cable, 5-wire, CE (2m)	AB389130055
XE.ID.0204001	AC XB Interconnection Cable, 5-wire, UL (6.5ft)	AB389120055
XE.ID.0074000	AC XB Interconnection Cable, 5-wire, CE (0.7m)	AB389100055
XE.ID.0074001	AC XB Interconnection Cable, 5-wire, UL (2.33ft)	AB389070055
XE.IF.0104000	AC XB Power Cable, 3-wire, CE (1m)	AB389060055
XE.IF.0104001	AC XB Power Cable, 3-wire, UL (3.25ft)	AB389050055
DE.AC.0100000	RJ45 Male Connector Housing IP67	AA556100155
XB.AC.2304000	5-pin Connector Socket End Cap IP66	AA508870335

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