

Town of Brookfield
645 N. Janacek Road
Brookfield, WI 53045

Telephone: 262-796-3788
FAX: 262-796-0339



May 18, 2023

MEETING NOTICE

Meeting will be held at the **TOWN HALL, 645 N. Janacek Road, Brookfield, WI:**

TUESDAY, MAY 23, 2023

7:00PM

PUBLIC HEARING

1. Confirmation of meeting notice.
2. Public Hearing to receive comment on a request for a proposed Zoning Code Text Amendment to Section 17.02(14)(b)1, related to conditional use permit procedures.
3. Adjourn.

TUESDAY, MAY 23, 2023

IMMEDIATELY FOLLOWING

PLANNING COMMISSION

AGENDA:

1. Confirmation of meeting notice.
2. Approval of April 25, 2023 Plan Commission Minutes.
3. SD-0523-01 Corey Wallace (Wesenberg Architects), representing Quest Interiors, for a recommendation for Preliminary and Final Approval of a new building consisting of an office, product showroom, and product storage and shipping area located at 21055 Crossroads Circle.
4. P-0523-01 Recommendation to schedule a public hearing for a Zoning Code Text Amendment related to adult and children day care centers.
5. P-0523-02 Discussion regarding a potential Municipal Code Text Amendment to add Section 12.08, which establishes requirements for mobile food trucks operating within the Town of Brookfield.
6. P-0423-01 Town of Brookfield for a recommendation of approval for a Zoning Code Text Amendment to Section 17.02(14)(b)1, related to conditional use permit procedures.
7. P-0822-02 Town of Brookfield for a recommendation of approval for a Zoning Code Text Amendment to Section 17.02(14)(g)11 related to fences.
8. Correspondence.
9. Adjourn.

P	Planning Issue
SD	Site Development

Bryce Hembrook, AICP
Town Planner

PLEASE NOTE: It is possible that members of and possibly a quorum of members of other governmental bodies of the municipality may be in attendance at the above meetings to gather information. No action will be taken by any governmental body other than that specifically noticed. Also, upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request such services contact the clerk's office at the above.

**TOWN OF BROOKFIELD
PLAN COMMISSION MINUTES
April 25, 2023**

Town Chairman Keith Henderson called the meeting to order at 7:01pm on Tuesday, April 25, 2023, at the Town of Brookfield Town Hall, 645 North Janacek Road, Brookfield, Wisconsin. Also, present at the meeting were Commissioners Gordon Gaeth, William Neville, Len Smeltzer, and Town Planner Bryce Hembrook. Commissioners Kevin Riordan and Jeremy Watson were absent, with Commissioner Watson being excused.

CONFIRMATION OF MEETING NOTICE

Town Planner Bryce Hembrook reported that the agenda was noticed and posted as required.

MINUTES

Commissioner Neville moved to approve the minutes of the regular meeting of the March 22, 2023 Plan Commission meeting as presented. The motion was seconded by Commissioner Gaeth, voted on, and carried unanimously.

RECOMMENDATION TO SCHEDULE A PUBLIC HEARING FOR A ZONING CODE TEXT AMENDMENT TO SECTION 17.02(14)(b)1, RELATED TO CONDITIONAL USE PERMIT PROCEDURES.

Town Planner Hembrook presented the item and reported that this is a common requirement in Wisconsin when considering an amendment to the zoning code. Commissioner Smeltzer made a motion to **recommend** the Town Board schedule a public hearing for a zoning code text amendment to section 17.02(14)(b)1, related to Conditional Use Permit procedures. The motion was seconded by Commissioner Gaeth, voted on, and carried unanimously.

CORRESPONDENCE AND ANNOUNCEMENTS

None.

ADJOURN

There being no further business, Commissioner Neville made a motion to adjourn the meeting. The motion was seconded by Commissioner Gaeth, voted on, and carried unanimously. Chairman Henderson closed the meeting at 7:06pm.

Respectfully submitted,
Bryce Hembrook



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for All of Us®

TOWN OF BROOKFIELD PLAN COMMISSION ZONING REPORT

TO: Plan Commission

FROM: Bryce Hembrook, AICP
Town Planner

REPORT DATE: May 18, 2023
PC MEETING DATE: May 23, 2023

RE: **Quest Interiors – Preliminary Approval**
21055 Crossroads Circle BKFT1129999007

SEH No. 171421, TASK 5

Applicant: Corey Wallace, Wesenberg Architects representing Quest Interiors

Application Type: Preliminary Approval

Request

Preliminary approval of a new building consisting of an office area, showroom, and product storage and shipping area, located at 21055 Crossroads Circle.

Summary of Request

- Zoning District = B-2 Limited General Business District
- Currently a vacant 3.68 acre parcel in an office park.
- Proposed structure = 23,431 square foot one-story facility for Quest Interiors consisting of an office area, product showroom, and product storage/shipping area. The business's main customer is local home builders and contractors. The land use is considered to be a building supply store and office.
- Approximately 49 parking stalls currently proposed; 39 in customer parking area and 10 stalls intended for staff.
 - According to the code, 35 parking spaces are required. Stall per land use breakdown below:
 - Office area = 14
 - Warehouse = 12
 - Showroom = 9
- Proposed setbacks:
 - Front = 108'
 - Side = 109' south and 50' north
 - Rear = 121'
 - All setbacks will meet code requirements.
- Sum total of floor area
 - Proposed = 14.6% of lot area.

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 501 Maple Avenue, Delafield, WI 53018-9351
SEH is 100% employee-owned | sehinc.com | 262.646.6855 | 888.908.8166 fax

- Required = No less than 6,000sf or 15% of the lot area, whichever is less. Shall not exceed 50% of lot area.
- Requirement is met.
- Proposed building height appears to be approximately 28’.
- There are single-family residences directly to the west of the subject property, but only one of the adjacent parcels is zoned residential. The majority of trees along the western property line are proposed to remain to maintain the buffer between the residential properties and the new building.

Preliminary Approval Requirements

The purpose of preliminary project review is to determine that proposed structures are properly located and to review the project plans. The project plans, in the maximum scale of one-inch equals 40 feet, for any multifamily residential, commercial, industrial, park, or institutional development shall include a plat of survey prepared by a registered land surveyor showing the location, boundaries, dimensions, elevations, existing and proposed grades to the Town of Brookfield datum. In addition, the plat of survey shall show the location, elevation, existing grades, and use of any abutting lands and their structures within 100 feet of the subject site. This information was provided by the applicant and included in the plan sets.

The Commission needs to review the proposed uses and sizes of the following:

- Subject site
- Existing and proposed structures and easements
- Streets and other public ways
- Off-street parking, loading areas, driveways, ingress and egress plans
- Landscaping and open space utilization plans
- Existing and proposed street, side, and rear yards

When deciding whether to approve the preliminary plans, the Committee should consider these elements.

Development Review Team Feedback

The Development Review Team has reviewed the proposed plans and all of their comments and/or concerns are described in the review letter from the Town Engineer. Overall, town staff believes these items can be addressed prior to final approval from the Town Board.

Next Steps

If approved, the next step will be final plan review by the Architectural Review Committee in June, followed by Plan Commission review, and final review/approval by Town Board.

Architectural Review Committee Recommendation

Recommended preliminary approval of the proposed building to the Plan Commission.

PROPOSED SHOWROOM, OFFICE & WAREHOUSE BUILDING

for

QUEST INTERIORS

21055 Crossroads Circle
Town of Brookfield, WI



FIELD VERIFY ALL GIVEN DATA BEFORE PREPARATION OF SHOP DRAWINGS, CONSTRUCTION AND INSTALLATION.

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Proposed Offices, Showroom and Warehouse for:

KTFM, LLC
21055 Crossroads Circle
Town of Brookfield, WI 53186

ISSUE DATE:
19 April, 2023

SET TYPE:
ZONING SUBMITTAL

REVISIONS:

NO.	DESCRIPTION	DATE

COVER SHEET

PRINTED: 4/19/2023 2:08:09 PM

PROJECT NUMBER

2236

SHEET NUMBER

G100

**PRELIMINARY
NOT FOR CONSTRUCTION**

FOR PROPER INTERPRETATION, THESE DRAWINGS SHALL BE PRINTED IN COLOR

SHEET INDEX		
SHEET NUMBER	SHEET NAME	DISCIPLINE
G100	COVER SHEET	GENERAL
C0.1	CIVIL COVER AND SPECIFICATION SHEET	CIVIL
C1.0	EXISTING SITE AND DEMOLITION PLAN	CIVIL
C1.1	SITE PLAN	CIVIL
C1.2	GRADING AND EROSION CONTROL PLAN	CIVIL
C1.3	UTILITY PLAN	CIVIL
C1.4	LANDSCAPE AND RESTORATION PLAN	CIVIL
C2.0	DETAILS	CIVIL
C2.1	DETAILS	CIVIL
C2.2	DETAILS	CIVIL
C3.1	SITE PHOTOMETRICS PLAN & DETAILS	CIVIL
AS100	SITE CONTEXT PLAN	ARCHITECTURAL SITE
AS101	ARCHITECTURAL SITE PLAN	ARCHITECTURAL SITE
A100	FIRST FLOOR DESIGN PLAN	ARCHITECTURAL
Z300	EXTERIOR DESIGN ELEVATIONS	ARCHITECTURAL PRESENTATION
Z301	EXTERIOR DESIGN ELEVATIONS	ARCHITECTURAL PRESENTATION
Z400	BUILDING SECTION DIAGRAM	ARCHITECTURAL PRESENTATION
Z900	PRESENTATION DRAWING	ARCHITECTURAL PRESENTATION
Z901	PRESENTATION DRAWING	ARCHITECTURAL PRESENTATION

CONSULTANT LIST	
ARCHITECT: WESENBERG ARCHITECTS 146 ALGOMA BLVD OSHKOSH, WISCONSIN 54901 (920) 230 - 4900 Chet Wesenberg chet.wesenberg@owarchitect.net	
OWNER: KTFM, LLC N7799 US HWY 51 FOND DU LAC, WISCONSIN 54935 (920) 233 - 3200 Mark Twohig mtwohig@questinteriorsusa.com	
STRUCTURAL ENGINEER: PATERA, LLC 2601 S. SUNNYSLOPE ROAD NEW BERLIN, WI 53151 (262) 786 - 6576 John Lavin john@PateraLLC.com	
CIVIL: EXCEL ENGINEERING, INC. 100 CAMELOT DRIVE FOND DU LAC, WI 54935 (920) 926 - 9800 Jason Daye jason.daye@excelengineer.com	
PLUMBING & FIRE PROTECTION: EXCEL ENGINEERING, INC. 100 CAMELOT DRIVE FOND DU LAC, WI 54935 (920) 926 - 9800 Ben Stratman ben.stratman@excelengineer.com	
HVAC ENGINEER: EXCEL ENGINEERING, INC. 100 CAMELOT DRIVE FOND DU LAC, WI 54935 (920) 926 - 9800 Michael Zagar michael.zagar@excelengineer.com	
ELECTRICAL DESIGNER: EXCEL ENGINEERING, INC. 100 CAMELOT DRIVE FOND DU LAC, WI 54935 (920) 926 - 9800 Tim Stoppeworth tim.stoppeworth@excelengineer.com	



VICINITY MAP



PROJECT LOCATION

PROJECT LOCATION

LOCAL MAP



EXISTING SITE DATA			
	AREA (AC)	AREA (SF)	RATIO
PROJECT SITE	3.68	160,351	
BUILDING FLOOR AREA	0.00	0	0.0%
PAVEMENT (ASP. & CONC.)	0.00	0	0.0%
TOTAL IMPERVIOUS	0.00	0	0.0%
LANDSCAPE/ OPEN SPACE	3.68	160,351	100.0%

PROPOSED SITE DATA			
	AREA (AC)	AREA (SF)	RATIO
PROJECT SITE	3.68	160,351	
BUILDING FLOOR AREA	0.64	28,039	17.5%
PAVEMENT (ASP. & CONC.)	1.10	47,753	29.8%
TOTAL IMPERVIOUS	1.74	75,792	47.3%
LANDSCAPE/ OPEN SPACE	1.94	84,559	52.7%

SPECIFICATION NOTE:
SEE SHEET C0.1 FOR PLAN SPECIFICATIONS AND REQUIREMENTS



Always a Better Plan
100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

PROJECT INFORMATION

PROPOSED OFFICES, SHOWROOM, AND WAREHOUSE FOR:
KTFM, LLC
21055 CROSSROADS CIRCLE • TOWN OF BROOKFIELD, WI 53186

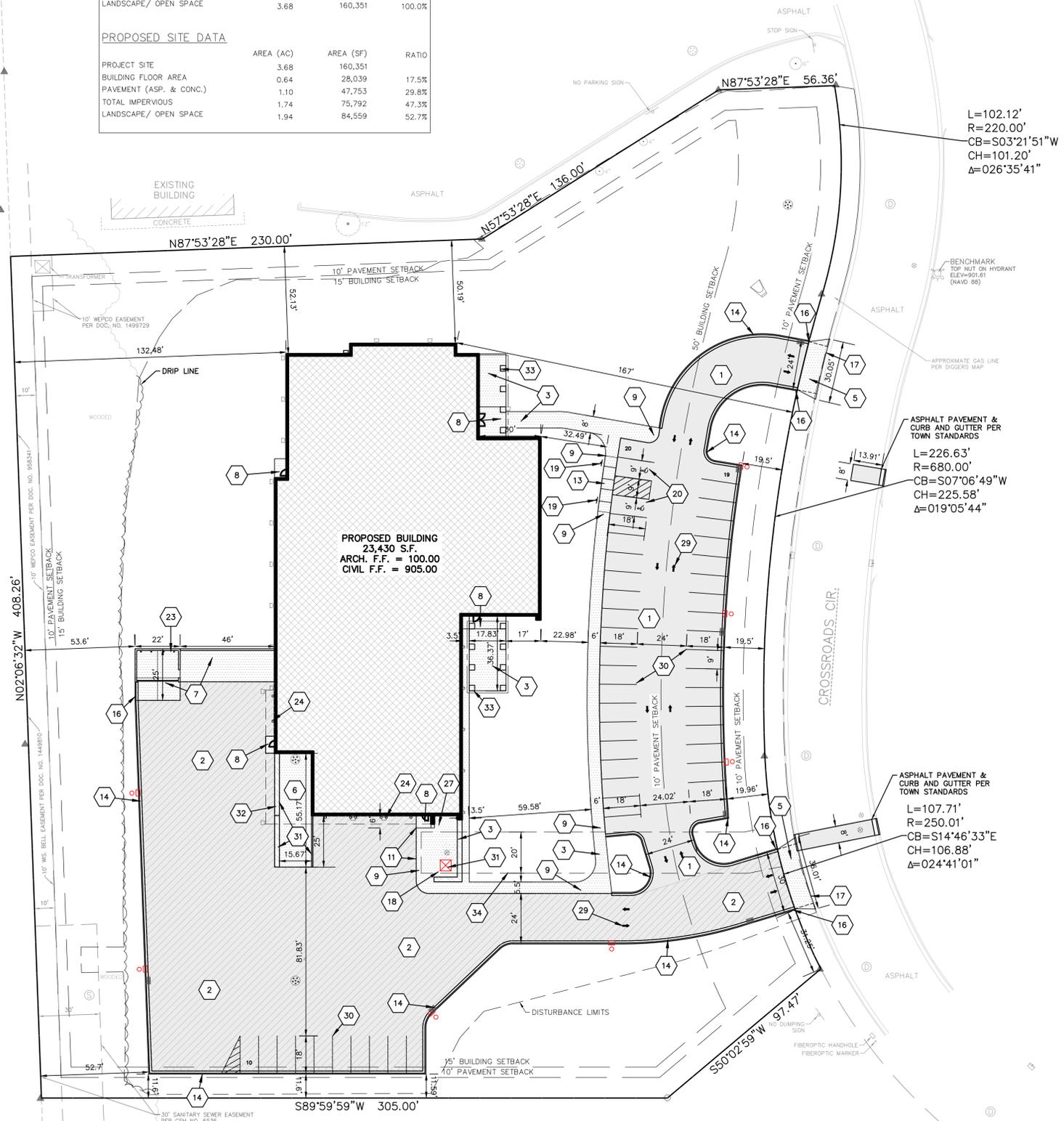
PROFESSIONAL SEAL

PRELIMINARY DATES
APR. 19, 2023

NOT FOR CONSTRUCTION

JOB NUMBER
230030600

SHEET NUMBER
C1.1



SITE INFORMATION:

PROPERTY AREA: 160,351 S.F. (3.68 ACRES)
EXISTING ZONING: B-2 LIMITED GENERAL BUSINESS
PROPOSED ZONING: B-2
PROPOSED USE: INTERIOR FLOORING RETAIL AND WAREHOUSE
AREA OF SITE DISTURBANCE: 160,351 S.F. (3.68 ACRES)

SETBACKS: BUILDING: FRONT = 50'
SIDE = 15'
REAR = 15'

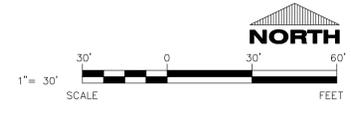
PAVEMENT: FRONT = 10'
SIDE = 10'
REAR = 10'

SITE PLAN KEYNOTES

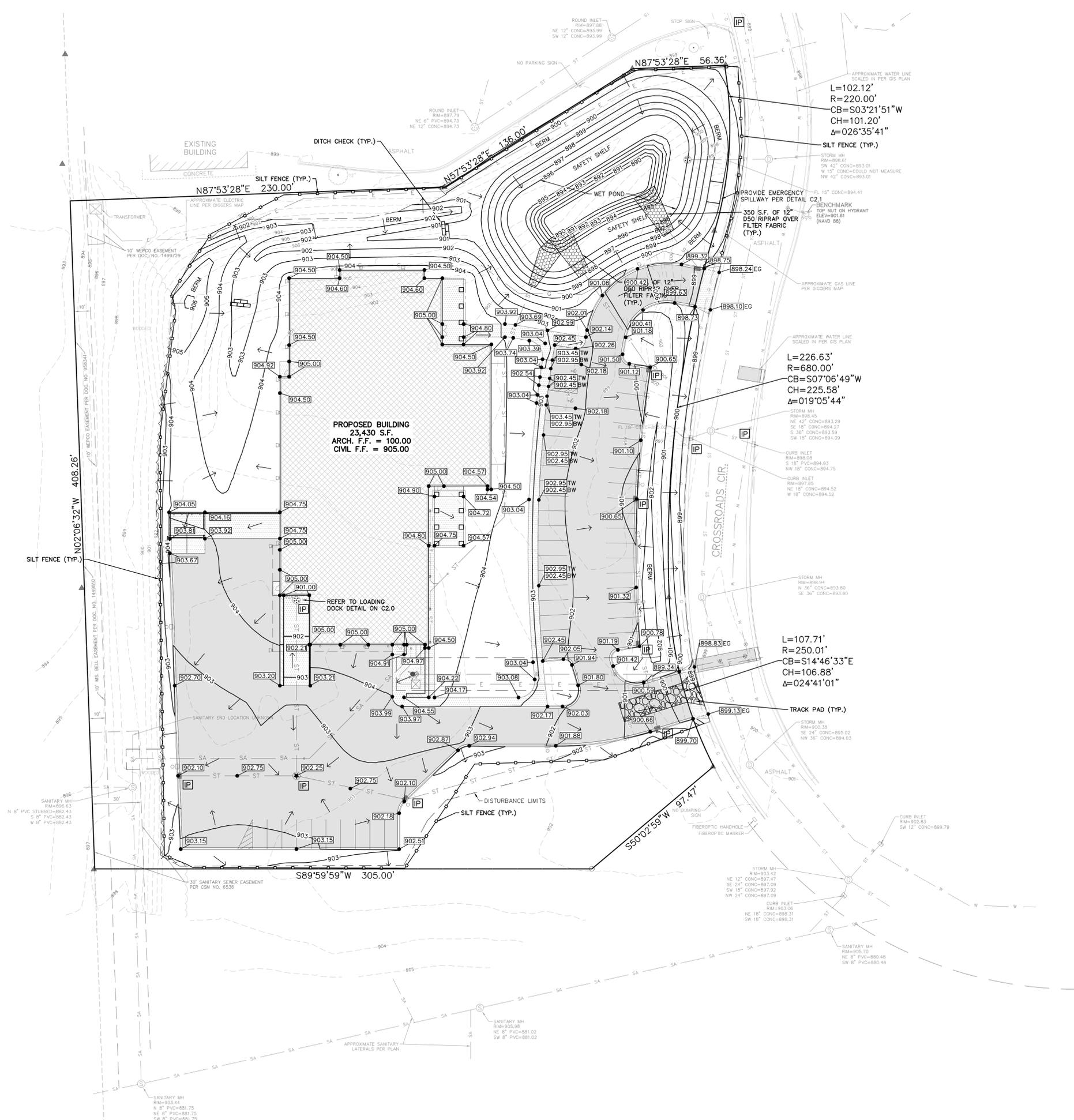
- 1 STANDARD ASPHALT SECTION (TYP.)
- 2 HEAVY DUTY ASPHALT SECTION (TYP.)
- 3 CONCRETE SIDEWALK/PATIO (TYP.)
- 5 HEAVY DUTY CONCRETE (TYP.)
- 6 LOADING DOCK CONCRETE (TYP.)
- 7 DUMPSTER PAD CONCRETE (TYP.)
- 8 CONCRETE STOOP (TYP.) SEE ARCH. PLANS FOR DETAILS
- 9 RAISED WALK (TYP.)
- 11 TAPER WALK 0" TO 6" IN 18'
- 13 ADA CURB RAMP (TYP.)
- 14 18" CURB & GUTTER (TYP.)
- 16 CURB TAPER (TYP.)
- 17 CURB CUT (TYP.)
- 18 CONCRETE TRANSFORMER PAD BY UTILITY SUPPLIER (CONTRACTOR TO VERIFY FINAL LOCATION & DESIGN PRIOR TO CONSTRUCTION)
- 19 HANDICAP SIGN (TYP.)
- 20 HANDICAP STALL & STRIPING PER STATE CODES
- 23 DUMPSTER ENCLOSURE (SEE ARCH PLANS FOR DETAILS)
- 24 (8)-6" CONCRETE BOLLARDS (SEE DETAIL ON ARCH. PLAN)
- 28 DETECTABLE WARNING PLATE
- 29 TRAFFIC FLOW ARROWS, COLOR TO MATCH PARKING STALL STRIPING
- 30 PAINT STRIPING (TYP.)
- 31 RETAINING WALL SEE ARCH. PLANS FOR DETAILS
- 32 CANOPY SEE ARCH. PLANS FOR DETAILS
- 33 COLUMNS AND PERGOLA SEE ARCH. PLANS FOR DETAILS
- 34 20" PUBLIC WATER MAIN EASEMENT.

PAVEMENT HATCH KEY:

[Hatch Pattern]	STANDARD ASPHALT
[Hatch Pattern]	HEAVY DUTY ASPHALT
[Hatch Pattern]	CONCRETE



CIVIL SITE PLAN



SPECIFICATION NOTE:
SEE SHEET C0.1 FOR PLAN SPECIFICATIONS AND REQUIREMENTS

NOTES:

- HANDICAP STALL AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1.50% IN ANY DIRECTION. HANDICAP STALL & ACCESS AISLES SHALL CONFORM TO ADA REQUIREMENTS (CURRENT EDITION)
- ALL SIDEWALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 1.50% AND RUNNING SLOPE OF 4.50% UNLESS OTHERWISE SPECIFIED.

INLET PROTECTION NOTE:

IP CONTRACTOR SHALL PROVIDE TEMPORARY INLET PROTECTION FOR ALL CURB INLETS & CATCH BASINS ONSITE & OFFSITE IMMEDIATELY DOWNSTREAM OF THE PROJECT SITE PER LOCAL CODE.

STABILIZED CONSTRUCTION ENTRANCE NOTE:

CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION ENTRANCE AT CONSTRUCTION ENTRANCE FOR PROPOSED IMPROVEMENTS AS REQUIRED PER CODE.

CONCRETE WASHOUT NOTE:

CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AS REQUIRED PER CODE. FINAL LOCATION TBD BY CONTRACTOR.

EXCEL
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100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
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PROJECT INFORMATION

PROPOSED OFFICES, SHOWROOM, AND WAREHOUSE FOR:
KTFM, LLC
21055 CROSSROADS CIRCLE • TOWN OF BROOKFIELD, WI 53186

PROFESSIONAL SEAL

PRELIMINARY DATES

APR. 19, 2023

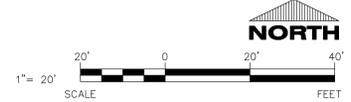
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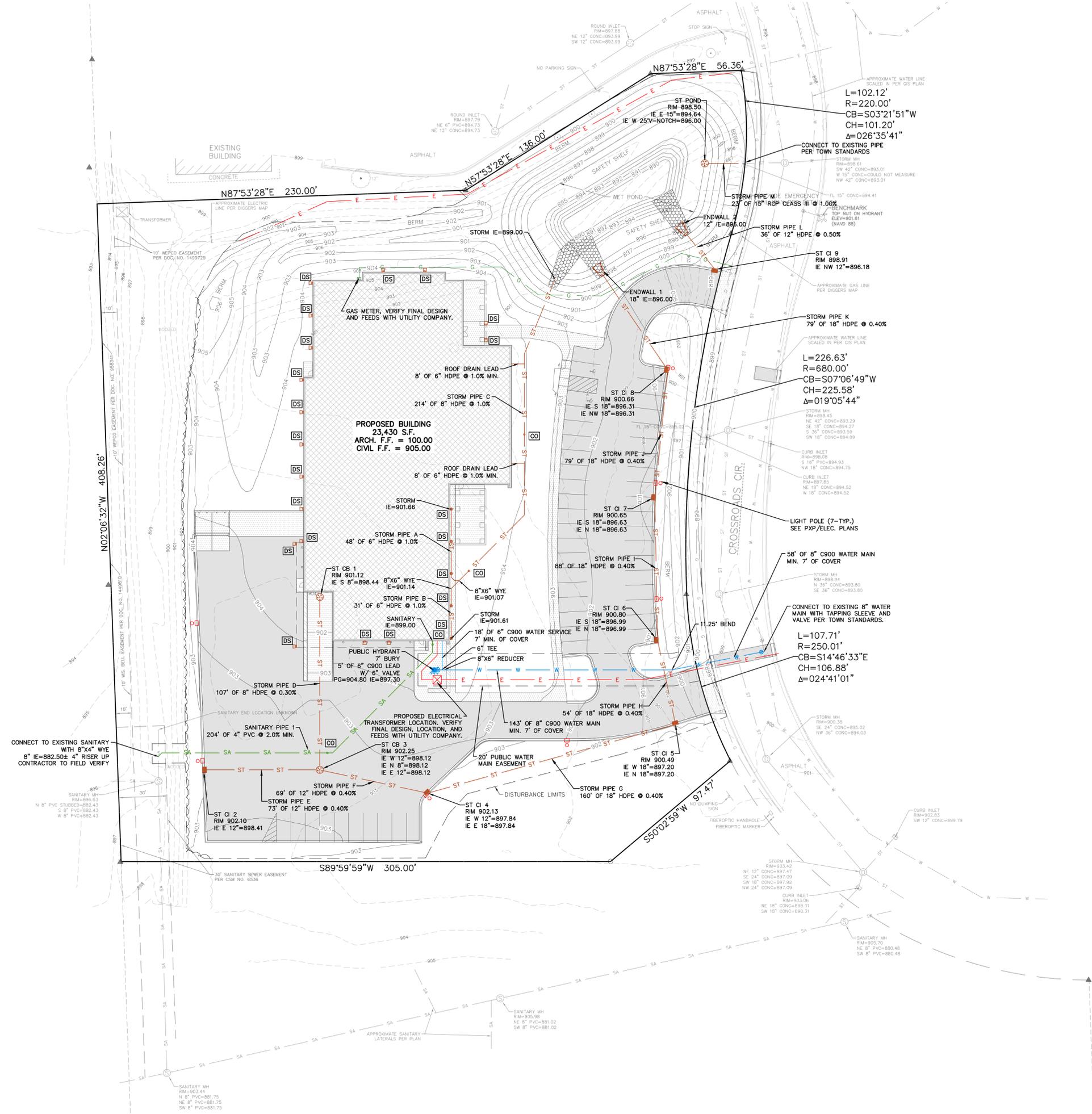
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SHEET NUMBER

C1.2



CIVIL GRADING AND EROSION CONTROL PLAN



SPECIFICATION NOTE:
SEE SHEET C0.1 FOR PLAN SPECIFICATIONS AND REQUIREMENTS

DOWNSPOUT NOTE:
DS = DENOTES DOWNSPOUT TO GRADE LOCATIONS. PROVIDE SPLASH BLOCKS AT ALL DS TO GRADE LOCATIONS. SEE ARCH PLANS FOR FINAL LOCATIONS.

DOWNSPOUT NOTE:
DS = DENOTES DOWNSPOUT CONNECT TO CLEANOUT AT GRADE FOR STORM SEWER LEAD. SEE ARCH PLANS FOR FINAL LOCATIONS.

CLEANOUT NOTE:
CO = DENOTES LOCATIONS WHERE CONTRACTOR SHALL INSTALL CLEANOUTS, SEE C0.1 FOR SPECIFICATION.



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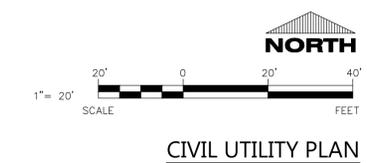
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JOB NUMBER

230030600

SHEET NUMBER

C1.3



CIVIL UTILITY PLAN

SPECIFICATION NOTE:
SEE SHEET C0.1 FOR PLAN SPECIFICATIONS AND REQUIREMENTS

EROSION MATTING LOCATION



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LANDSCAPING PLANTING SCHEDULE

SYMBOL	COMMON NAME	BOTANICAL NAME	PLANTED SIZE	QUANTITY
DECIDUOUS TREES				
☉	Skyline Honeylocust	Gleditsia triacanthos 'Skyline'	2"	4
☉	Autumn Blaze Maple	Acer x freemanii 'Jeffers'	2"	3
☉	Redmond Linden	Tilia americana	2"	5
☉	Jack Flowering Pear	Pyrus calleryana 'Jazzam'	2"	3
☉	Ann Magnolia	Magnolia liliflora 'Nigra'	2"	4
EVERGREEN TREES				
☉	Black Hills Spruce	Picea glauca	6"	6
☉	Arborvitae - Nigra	Thuja occidentalis 'Nigra'	2"	6
DECIDUOUS SHRUBS				
☉	Anthony Waterer Spirea	Spiraea x bumalda 'Anthony Water'	15"-18"	6
☉	Gro-Low Fragrant Sumac	Rhus aromatica 'Gro Low'	18"	13
☉	Rhododendron	Rhododendron haaga	15"-18"	9
☉	Limelight Hydrangea Tree	Hydrangea paniculata 'Limelight'	4'-5'	5
EVERGREEN SHRUBS				
☉	Arcadia Juniper	Juniperus sabinia 'arcadia'	24"	7
☉	Taunton Yew	Tauntonii	24"	5
☉	Wintergreen Boxwood	Buxus sinica var insularis 'Wintergreen'	18"	11
PERENNIALS				
*	Karl Foerster Reed Grass	Clamagrostis x acutiflora 'Karl Foerster'	1 gal pot	16
*	Daylilies 'Stella de Oro'	Hemerocallis 'Stella de Oro'	1 gal pot	15
*	Walker's Low Catmint	Napeta x faassenii 'Walker's low'	1 gal pot	9
*	Hostas	Hostas 'Royal Standard'	1 gal pot	13

PROJECT INFORMATION

PROPOSED OFFICES, SHOWROOM, AND WAREHOUSE FOR:

KTFM, LLC

21055 CROSSROADS CIRCLE • TOWN OF BROOKFIELD, WI 53186

PROFESSIONAL SEAL

PRELIMINARY DATES

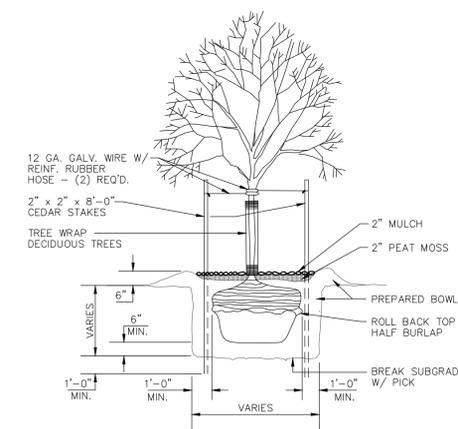
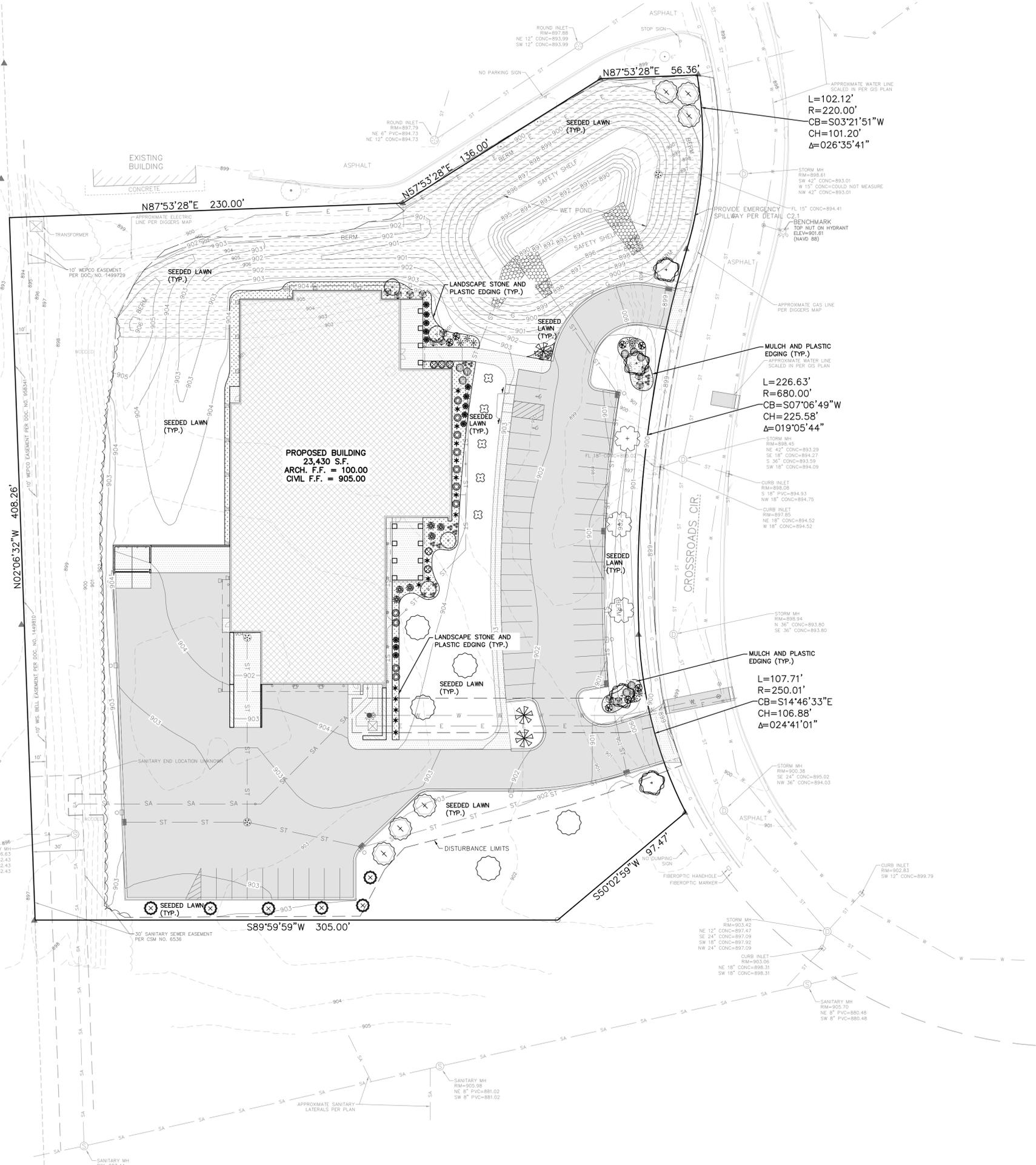
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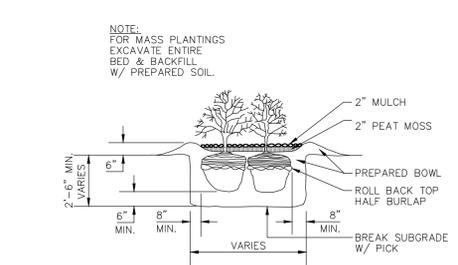
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SHEET NUMBER

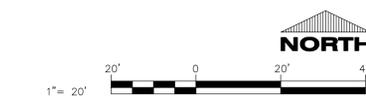
C1.4



TREE PLANTING DETAIL
NO SCALE



SHRUB PLANTING DETAIL
NO SCALE



CIVIL LANDSCAPE AND RESTORATION PLAN

NOT FOR CONSTRUCTION

PROJECT INFORMATION

PROPOSED OFFICES, SHOWROOM, AND WAREHOUSE FOR:
KTFM, LLC
 21055 CROSSROADS CIRCLE • TOWN OF BROOKFIELD, WI 53186

PROFESSIONAL SEAL

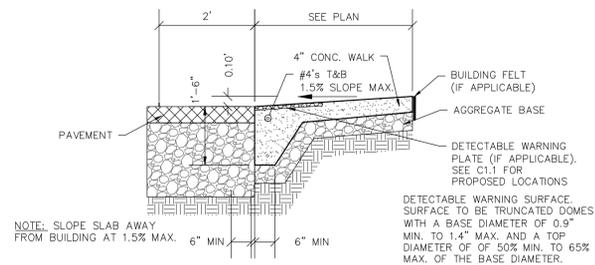
PRELIMINARY DATES
 APR. 19, 2023

NOT FOR CONSTRUCTION

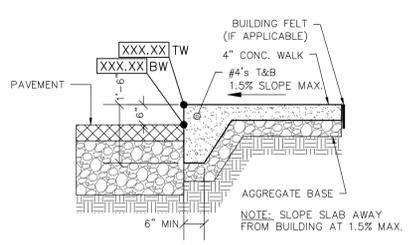
JOB NUMBER
 230030600

SHEET NUMBER
C2.0

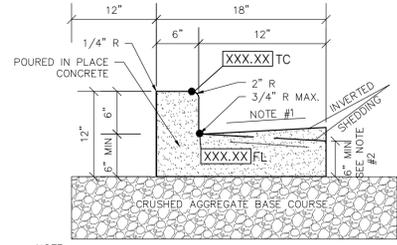
SPECIFICATION NOTE:
 SEE SHEET C0.1 FOR PLAN SPECIFICATIONS AND REQUIREMENTS



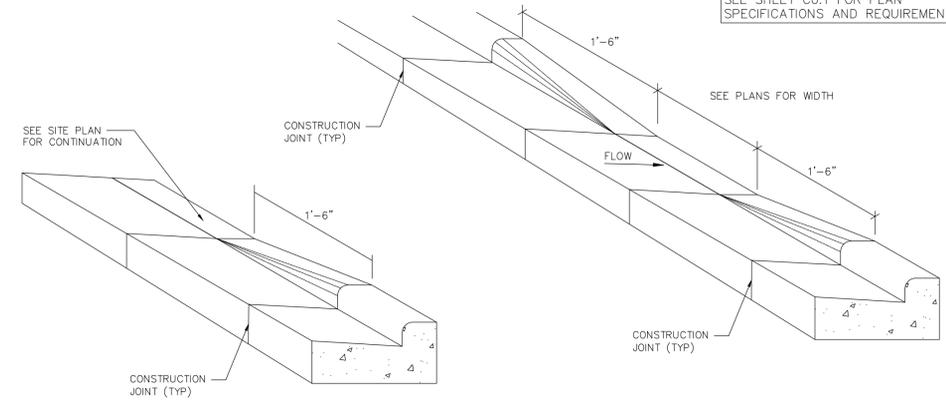
FLUSH WALK DETAIL
 NO SCALE



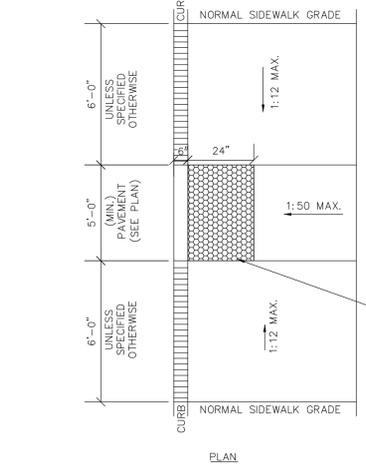
RAISED WALK DETAIL
 NO SCALE



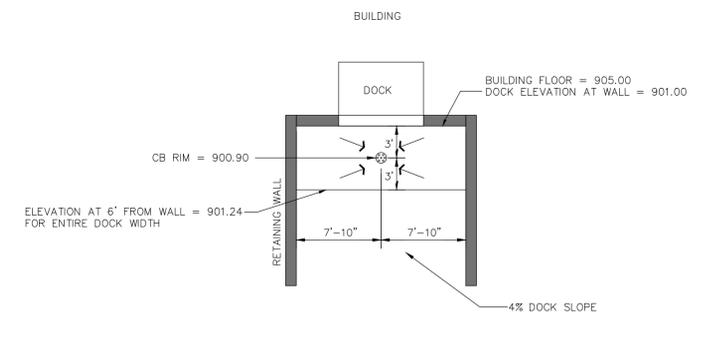
18" CONCRETE CURB & GUTTER DETAIL
 NO SCALE



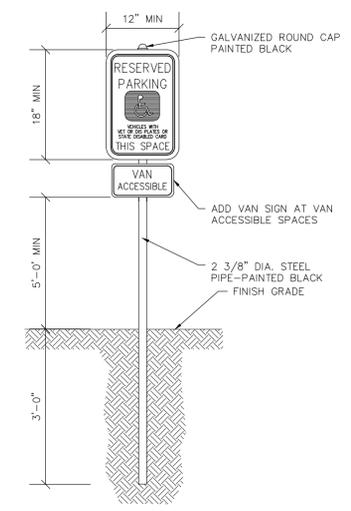
CURB CUT DETAIL
 NO SCALE



ADA CURB RAMP DETAIL
 NO SCALE



1 BAY LOADING DOCK DETAIL
 NO SCALE



HANDICAP SIGNAGE WITHOUT CONCRETE BASE DETAIL
 NO SCALE

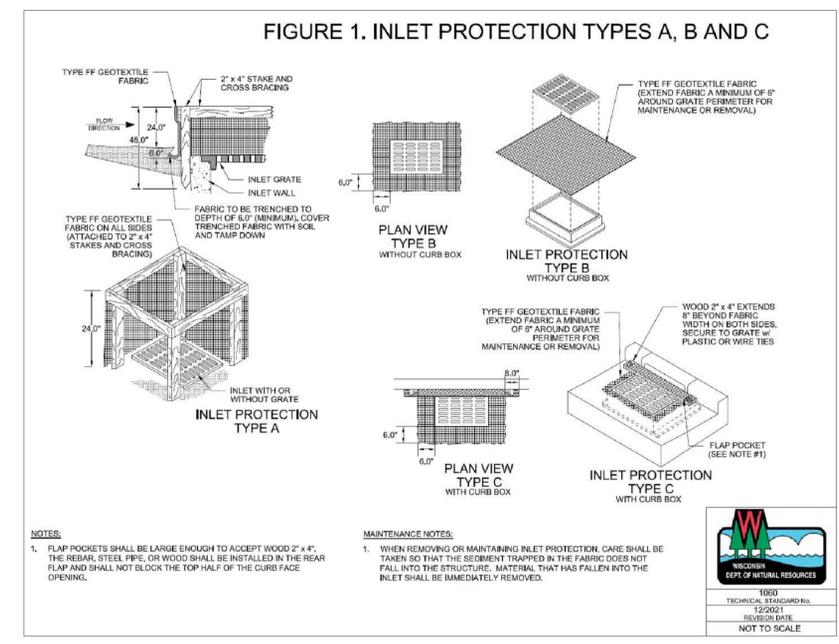
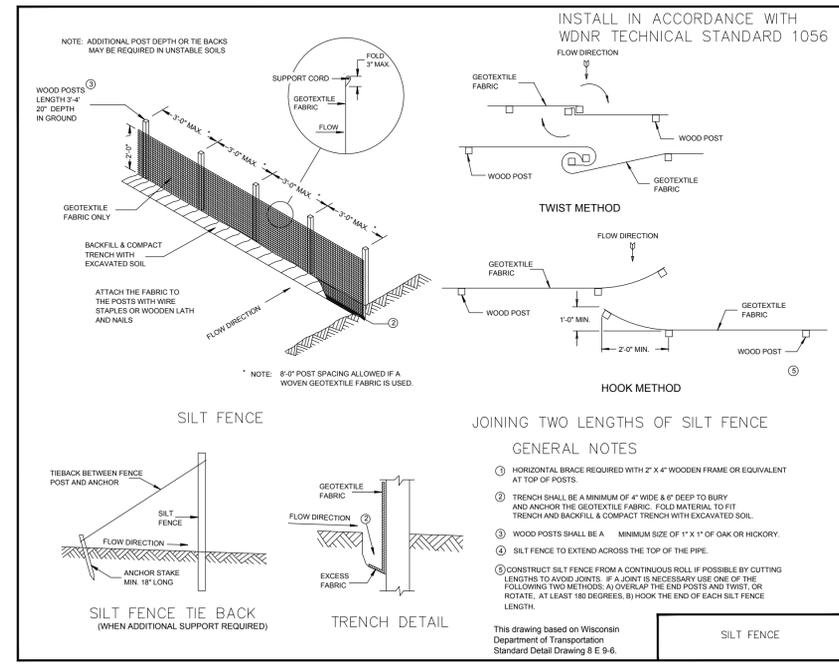


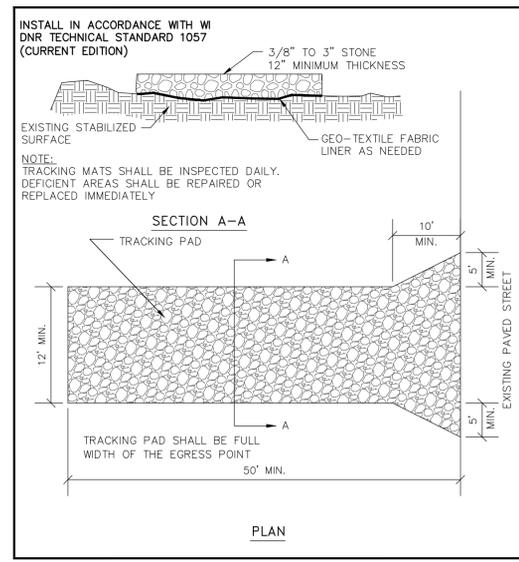
FIGURE 1. INLET PROTECTION TYPES A, B AND C

NOTES:
 1. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

MAINTENANCE NOTES:
 1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.



SILT FENCE - INSTALLATION DETAIL
 NO SCALE



TRACKPAD DETAILS
 NO SCALE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD NO. 1053 (CHANNEL EROSION MAT).

VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON SHALL BE PERMITTED IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH AND IF PRIOR APPROVAL OF THE ENGINEER IS OBTAINED.

LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.

JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET APART.

EDGES OF EROSION MAT SHALL BE IMPRESSED IN THE SOIL.

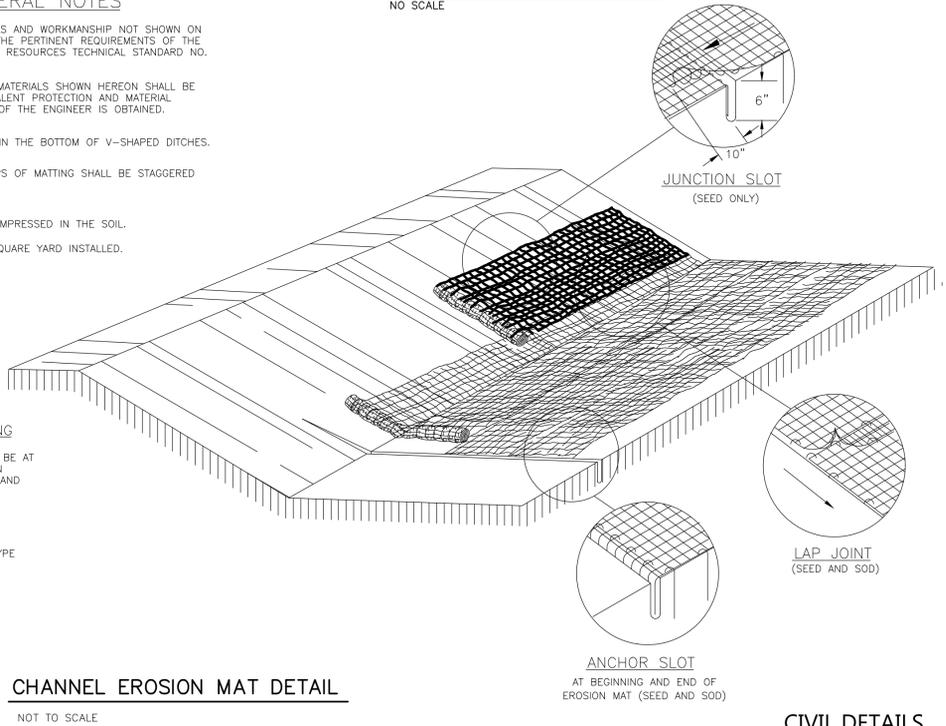
EROSION MAT SHALL PAID BY THE SQUARE YARD INSTALLED.

EROSION MAT OVER SEEDING

JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET ON GRADES UP TO AND INCLUDING 3%, AND 50 FEET ON GRADES EXCEEDING 3%.

NOTE:
 SEE SPECIFICATIONS FOR MATTING TYPE

INLET PROTECTION DETAIL
 NO SCALE



CHANNEL EROSION MAT DETAIL
 NOT TO SCALE

CIVIL DETAILS

SPECIFICATION NOTE:
SEE SHEET CO.1 FOR PLAN
SPECIFICATIONS AND REQUIREMENTS

PROJECT INFORMATION

PROPOSED OFFICES, SHOWROOM, AND WAREHOUSE FOR:
KTFM, LLC
21055 CROSSROADS CIRCLE • TOWN OF BROOKFIELD, WI 53186

PROFESSIONAL SEAL

PRELIMINARY DATES

APR. 19, 2023

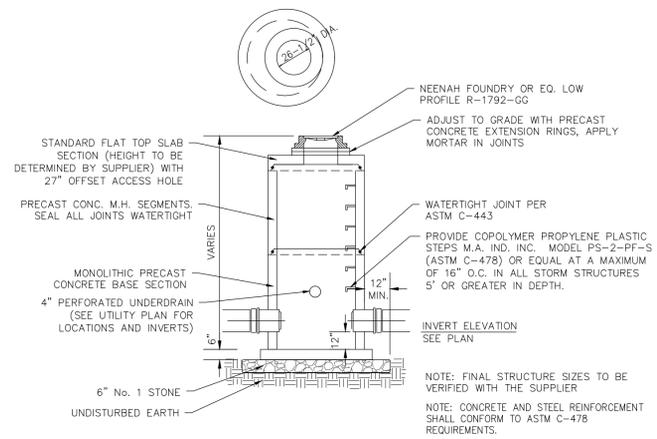
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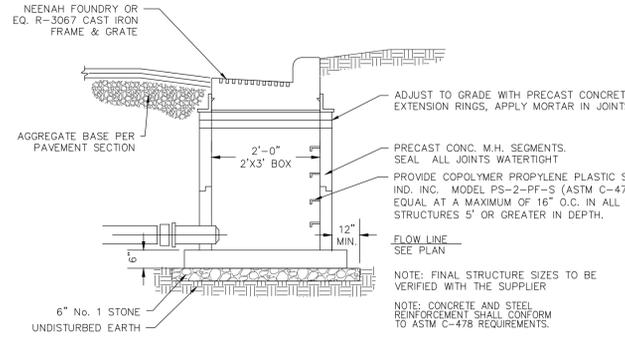
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SHEET NUMBER

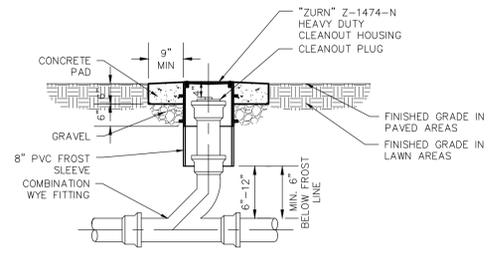
C2.1



STORM CATCH BASIN W/ SUMP DETAIL
NO SCALE



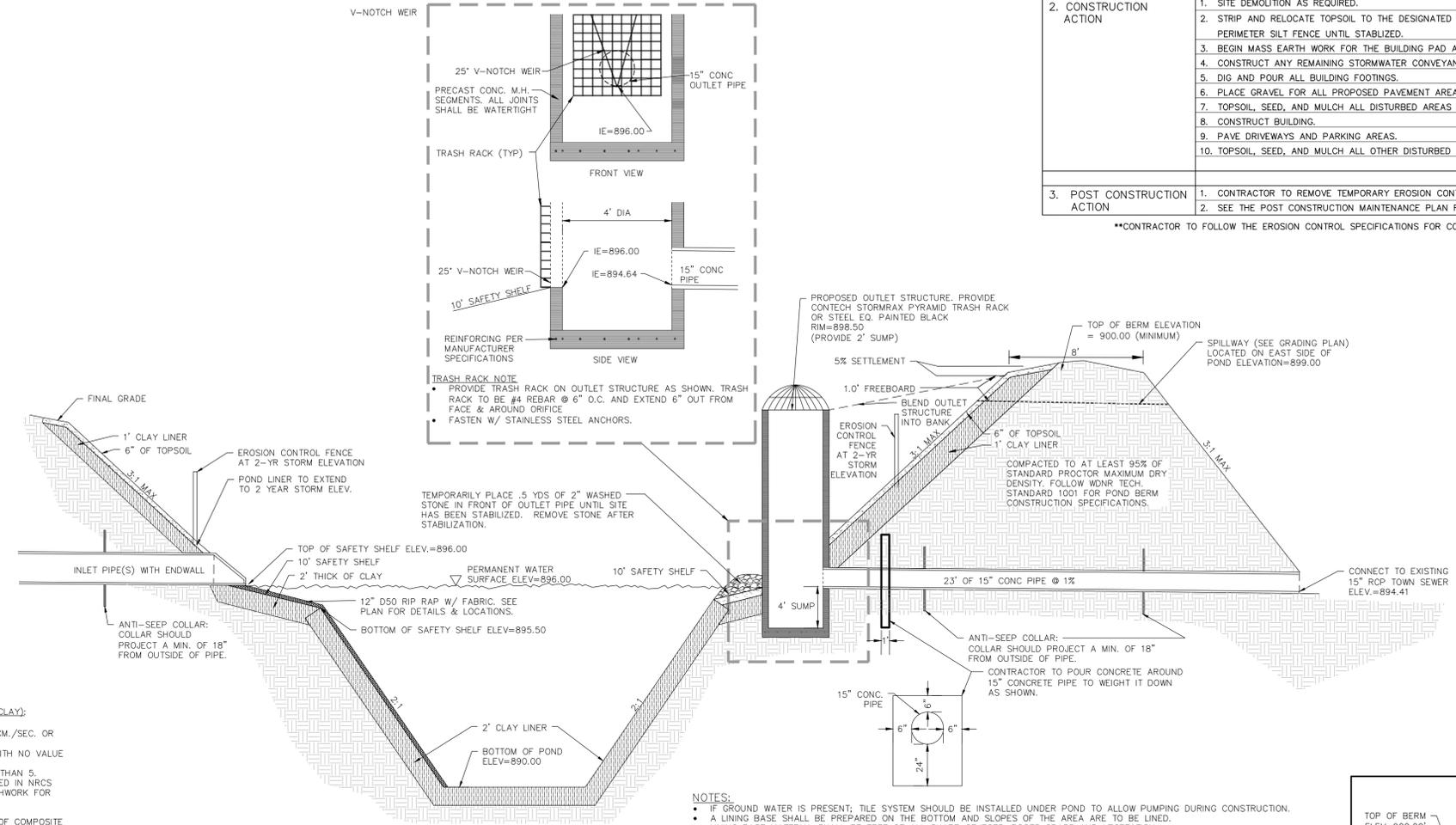
STORM CURB INLET DETAIL
NO SCALE



CLEANOUT TO GRADE DETAIL
NO SCALE

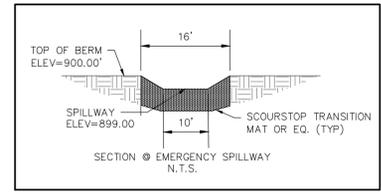
CONSTRUCTION SEQUENCE	
PHASE	TYPE OF ACTION
1. PRE-CONSTRUCTION ACTION	<ol style="list-style-type: none"> CONTRACTOR TO CALL DIGGERS HOTLINE AT A MINIMUM OF 3 DAYS PRIOR TO CONSTRUCTION. PLACE ALL SILT FENCE. CONSTRUCT TRACKING STONE ENTRANCES AND ANY TEMPORARY CONSTRUCTION ROADWAYS AS NEEDED. CONSTRUCT PERMANENT DETENTION PONDS AND PERMANENT STORMWATER CONVEYANCE SYSTEMS. CONSTRUCT TEMPORARY SEDIMENT TRAPS, SEDIMENT BASINS, AND ANY TEMPORARY STORMWATER CONVEYANCE SYSTEMS AS NEEDED. STABILIZE ALL TEMPORARY AND PERMANENT EROSION CONTROL AND STORMWATER CONVEYANCE SYSTEMS BEFORE TOPSOIL CAN BE STRIPPED.
2. CONSTRUCTION ACTION	<ol style="list-style-type: none"> SITE DEMOLITION AS REQUIRED. STRIP AND RELOCATE TOPSOIL TO THE DESIGNATED TOPSOIL STOCKPILE. FINAL LOCATION BY CONTRACTOR (VERIFY W/ OWNER). PROVIDE PERIMETER SILT FENCE UNTIL STABILIZED. BEGIN MASS EARTH WORK FOR THE BUILDING PAD AND PAVEMENT AREAS. CONSTRUCT ANY REMAINING STORMWATER CONVEYANCE SYSTEMS, AND INSTALL ALL OTHER UTILITIES ON SITE. DIG AND POUR ALL BUILDING FOOTINGS. PLACE GRAVEL FOR ALL PROPOSED PAVEMENT AREAS, INCLUDING FIRE LANES. TOPSOIL, SEED, AND MULCH ALL DISTURBED AREAS OUTSIDE THE BUILDING AND PROPOSED PAVEMENT AREAS. CONSTRUCT BUILDING. PAVE DRIVEWAYS AND PARKING AREAS. TOPSOIL, SEED, AND MULCH ALL OTHER DISTURBED AREAS. PLACE EROSION MATTING AND RIP RAP.
3. POST CONSTRUCTION ACTION	<ol style="list-style-type: none"> CONTRACTOR TO REMOVE TEMPORARY EROSION CONTROL MEASURES UPON SITE STABILIZATION. SEE THE POST CONSTRUCTION MAINTENANCE PLAN FOR PERMANENT STORMWATER MANAGEMENT SYSTEMS.

CONTRACTOR TO FOLLOW THE EROSION CONTROL SPECIFICATIONS FOR CONSTRUCTION EROSION CONTROL INSPECTION AND MAINTENANCE.



WET RETENTION POND
NO SCALE

- NOTES:**
- IF GROUND WATER IS PRESENT; TILE SYSTEM SHOULD BE INSTALLED UNDER POND TO ALLOW PUMPING DURING CONSTRUCTION.
 - A LINING BASE SHALL BE PREPARED ON THE BOTTOM AND SLOPES OF THE AREA ARE TO BE LINED.
 - LINING BASE MATERIAL SHALL BE FREE OF ALL SHARP OBJECTS, ROOTS GRASS AND VEGETATION.
 - THE BASE MATERIAL SHALL BE NATIVE MATERIALS OR MATERIALS OBTAINED FROM A BORROW SOURCE COMPACTED TO A MIN. OF 95% COMPACTING OR AN APPROVED CONSTRUCTION FABRIC.
 - THE SUBGRADE SHALL BE PREPARED IMMEDIATELY PRIOR TO THE PLACING OF THE LINER. THE SURFACE ON WHICH THE LINER IS TO BE PLACED IS TO BE FIRM, CLEAN, DRY AND SMOOTH.
 - AT END OF SITE CONSTRUCTION, POND DEPTH SHALL BE CHECKED FOR SEDIMENTATION AND DREDGED, IF NECESSARY, TO THE DESIGN DEPTH ORIGINALLY PROPOSED.
 - CONTRACTOR SHALL PROVIDE EROSION MATTING AS REQUIRED PER SPECIFICATIONS NOTED ON CO.1.
 - CONTRACTOR TO CONTACT EXCEL ENGINEERING TO COMPLETE AN AS-BUILT SURVEY FOLLOWING COMPLETION OF THE CONSTRUCTION OF THE STORMWATER POND. THE SURVEY SHALL BE COMPLETED PRIOR TO THE POND FILLING WITH WATER. CONTRACTOR SHALL GIVE EXCEL ENGINEERING A MINIMUM OF A 3 DAY NOTICE. PLEASE NOTE THAT THE HORIZONTAL TOLERANCE FOR POND CONSTRUCTION IS 0.50' AND THE VERTICAL TOLERANCE FOR POND, OUTLET, AND SPILLWAY CONSTRUCTION IS 0.10'. ANY ADDITIONAL WORK REQUIRED TO SURVEY A POND FULL OF WATER OR FOR SURVEYING FOLLOWING REWORK SHALL BE AT THE CONTRACTOR'S EXPENSE.



(DIRECTION) EMERGENCY SPILLWAY DETAIL
NO SCALE

- POND LINER CRITERIA FOR SAFETY SHELF AND BELOW (CLAY):**
- 50X FINES (200 SIEVE) OR MORE.
 - AN IN-PLACE HYDRAULIC CONDUCTIVITY OF 1×10^{-6} CM./SEC. OR LESS.
 - AVERAGE LIQUID LIMIT VALUE OF 16 OR GREATER, WITH NO VALUE LESS THAN 14.
 - AVERAGE PI OF 7 OR MORE WITH NO VALUES LESS THAN 5.
 - CLAY COMPACTION AND DOCUMENTATION AS SPECIFIED IN NRCS WISCONSIN CONSTRUCTION SPECIFICATION 204, EARTHWORK FOR WASTE STORAGE FACILITIES.
 - MINIMUM THICKNESS OF TWO FEET.
 - SPECIFY METHOD FOR KEEPING POOL FULL OR USE OF COMPOSITE SOILS BELOW LINER.
- POND LINER ALTERNATE:**
- CONTRACTOR TO PROVIDE 40 MIL/HDPE POND LINER IN LIEU OF CLAY LINER TO LINE ENTIRE POND AREA UP TO THE 2 YEAR, 24-HOUR WATER PONDING ELEVATION (SEE ELEVATION ON DETAIL).
 - DESIGN ACCORDING TO THE CRITERIA IN TABLE 3 OF THE NRCS 313, WASTE STORAGE FACILITY TECHNICAL STANDARD
 - INSTALL ACCORDING TO NRCS WISCONSIN CONSTRUCTION SPECIFICATION 202, POLYETHYLENE GEOMEMBRANE LINING.
- 4-6" ROUND STONE OVER FILTER FABRIC SHALL BE PROVIDED TO COVER THE ENTIRE LINER. TOP OF STONE SHALL MATCH PROPOSED POND ELEVATIONS.

OVERALL STORMWATER FACILITY DETAIL
NO SCALE

SPECIFICATION NOTE:
SEE SHEET C0.1 FOR PLAN
SPECIFICATIONS AND REQUIREMENTS



Always a Better Plan
100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

PROJECT INFORMATION

PROPOSED OFFICES, SHOWROOM, AND WAREHOUSE FOR:
KTFM, LLC
21055 CROSSROADS CIRCLE • TOWN OF BROOKFIELD, WI 53186

PROFESSIONAL SEAL

PRELIMINARY DATES

APR. 19, 2023

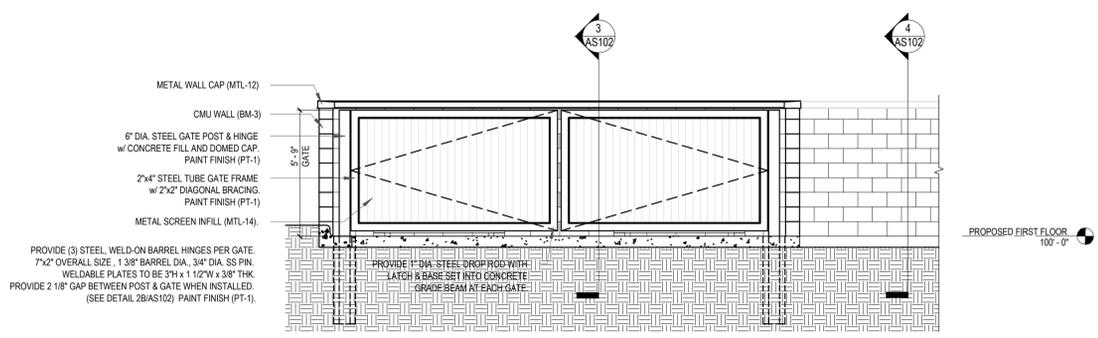
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JOB NUMBER

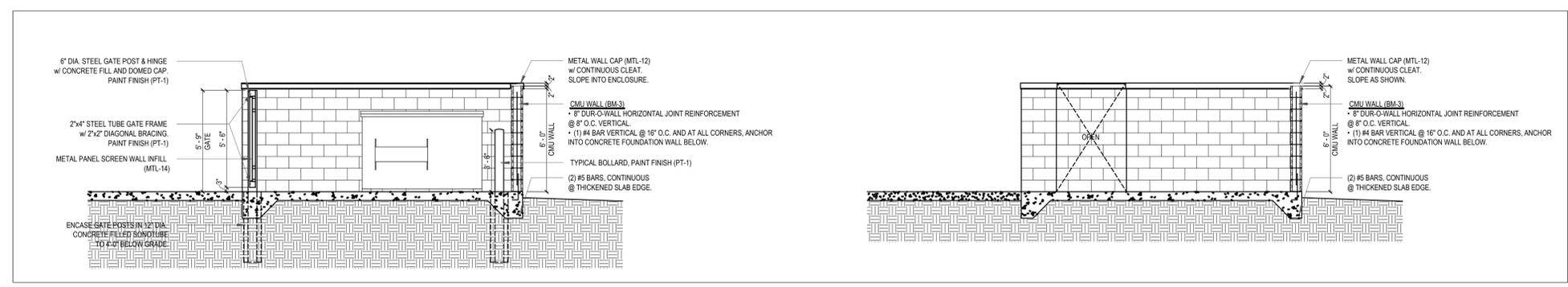
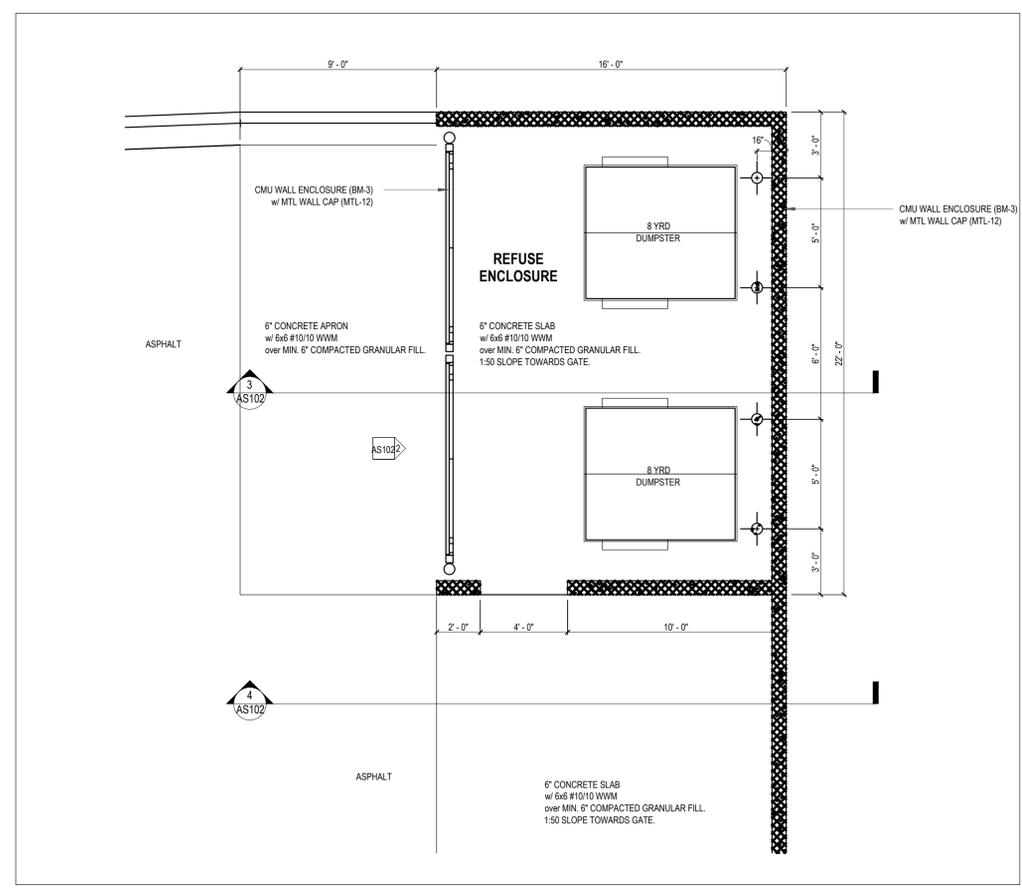
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SHEET NUMBER

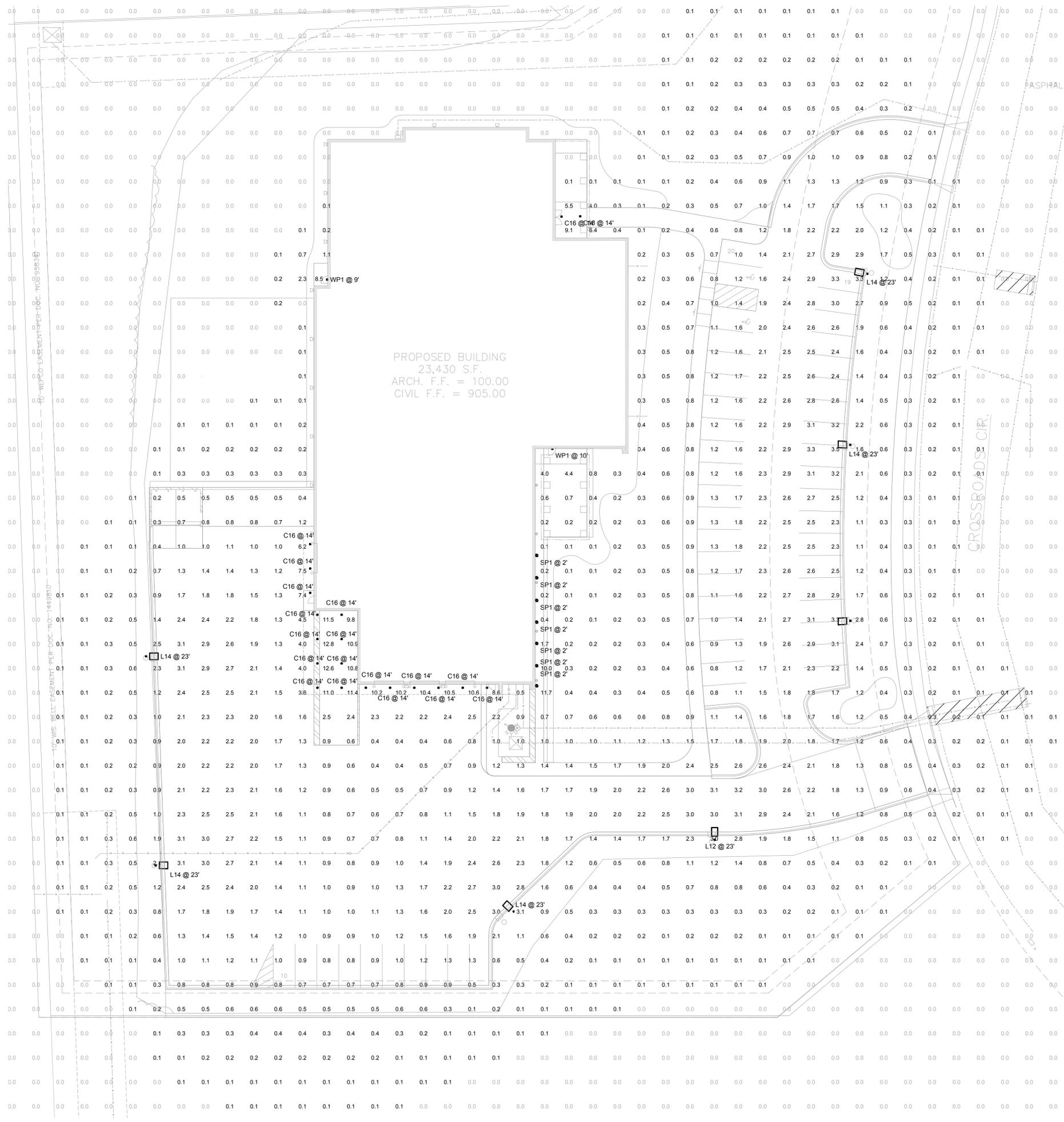
C2.2



PROPOSED FIRST FLOOR
100'-0"



DUMPSTER ENCLOSURE DETAIL
NO SCALE



D-Series Size 2 LED Area Luminaire

Specifications
 Size: 48" x 24"
 Length: 48.00"
 Width: 24.00"
 Height: 1.50"
 Weight: 15.00 lbs

Introduction
 The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with any environment. The D-Series offers the benefits of the latest LED technology with a high performance, high efficiency, long-life luminaire.

Outstanding photometric performance results in clear, well-distributed uniformity, greater pole spacing and lower power density. D-Series outstanding photometric performance in reducing the number of poles required in area lighting applications with typical energy savings of up to 80% vs. 100W/HED and expected service life of over 50,000 hours.

Beam Angle	Foot-Candle @ 30'	Foot-Candle @ 40'	Foot-Candle @ 50'	Foot-Candle @ 60'	Foot-Candle @ 70'	Foot-Candle @ 80'	Foot-Candle @ 90'	Foot-Candle @ 100'
15°	10.0	4.8	2.7	1.8	1.3	1.0	0.8	0.6
30°	4.8	2.3	1.3	0.9	0.6	0.5	0.4	0.3
45°	3.2	1.6	0.9	0.6	0.4	0.3	0.2	0.2
60°	2.4	1.2	0.7	0.5	0.3	0.2	0.2	0.1
75°	1.9	0.9	0.5	0.3	0.2	0.1	0.1	0.1
90°	1.5	0.7	0.4	0.3	0.2	0.1	0.1	0.1
105°	1.2	0.6	0.3	0.2	0.1	0.1	0.1	0.1

WEDGE2 LED Architectural Wall Scape Visual Comfort Cycle

Specifications
 Depth: 12"
 Width: 12"
 Height: 1.50"
 Weight: 1.50 lbs

Introduction
 The WEDGE2 LED is designed to meet the demand for architectural lighting that is a modern, clean, and minimalist design. The WEDGE2 LED is a high performance, high efficiency, long-life luminaire.

Outstanding photometric performance results in clear, well-distributed uniformity, greater pole spacing and lower power density. WEDGE2 LED outstanding photometric performance in reducing the number of poles required in area lighting applications with typical energy savings of up to 80% vs. 100W/HED and expected service life of over 50,000 hours.

Beam Angle	Foot-Candle @ 30'	Foot-Candle @ 40'	Foot-Candle @ 50'	Foot-Candle @ 60'	Foot-Candle @ 70'	Foot-Candle @ 80'	Foot-Candle @ 90'	Foot-Candle @ 100'
15°	1.5	0.7	0.4	0.3	0.2	0.1	0.1	0.1
30°	0.7	0.3	0.2	0.1	0.1	0.1	0.1	0.1
45°	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1
60°	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
90°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1

LDN6 STATIC WHITE

Features & Specifications
 • 4" x 4" x 1.5" LED Luminaire
 • 1000LM
 • 4000K CCT
 • 80CRI
 • 50,000 Hours

Performance Data

Beam Angle	Foot-Candle @ 30'	Foot-Candle @ 40'	Foot-Candle @ 50'	Foot-Candle @ 60'	Foot-Candle @ 70'	Foot-Candle @ 80'	Foot-Candle @ 90'	Foot-Candle @ 100'
15°	1.5	0.7	0.4	0.3	0.2	0.1	0.1	0.1
30°	0.7	0.3	0.2	0.1	0.1	0.1	0.1	0.1
45°	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1
60°	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
90°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
105°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1

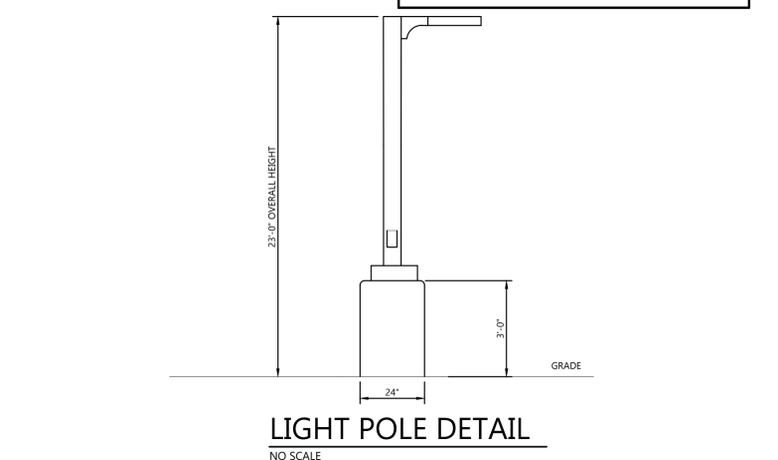
HUNZA NPS Spot

PureLED Specifications

Parameter	Value
LED Chip	OSRAM 2835
Luminaire Output	573lm
Beam Diameter	10.8" @ 30'
Beam Diameter	12.8" @ 40'
Beam Diameter	15.8" @ 50'
Beam Diameter	18.8" @ 60'
Beam Diameter	21.8" @ 70'
Beam Diameter	24.8" @ 80'
Beam Diameter	27.8" @ 90'
Beam Diameter	30.8" @ 100'

Product Configuration

Material: BLACK, WHITE, SILVER, BRASS, ANTI-REFLECTIVE
 Color: BLACK, WHITE, SILVER, BRASS, ANTI-REFLECTIVE
 Accessories: CABLE JOINT KIT, HED CELL COUPLER, SLAM GUARD, CABLE GUARD, CABLE PROTECTIVE COUPLER, CABLE PROTECTIVE COUPLER, CABLE PROTECTIVE COUPLER

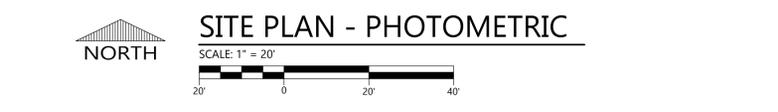


Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
FRONT PARKING & DRIVE	X	2.0 fc	3.5 fc	0.2 fc	17.5:1	10.0:1
OVERHANG	X	10.8 fc	12.8 fc	8.8 fc	1.5:1	1.3:1
BACK PARKING AREA	X	2.1 fc	12.8 fc	0.3 fc	42.7:1	7.0:1

Schedule

Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
□	L14	6	Lithonia Lighting	DSX2 LED P1 40K 80CRI T4M HS	D-Series Size 2 Area Luminaire P1 Performance Package 4000K CCT 80 CRI Type 4 Medium HouseSide Shield	1	15605	0.9	134.5029
□	L12	1	Lithonia Lighting	DSX2 LED P1 40K 80CRI T2M	D-Series Size 2 Area Luminaire P1 Performance Package 4000K CCT 80 CRI Type 2 Medium	1	17668	0.9	134.5
□	WP1	2	Lithonia Lighting	WEDGE1 LED P2 40K 80CRI VF	WEDGE1 LED WITH P2 - PERFORMANCE PACKAGE 4000K 80CRI VISUAL COMFORT FORWARD OPTIC	1	1978	0.9	15.0178
○	C16	19	Lithonia Lighting	LDN6 4015 LOGAR LSS	6IN LDN6 4000K, 1500LM, CLEAR, SEMI-SPECULAR REFLECTOR, CRIB80	1	1516	0.9	17.52
○	SP1	7	HUNZA	NPS-L-S-25-4	NPS SPOT - PURE LED - SERIES WIRED 1050MA - IP66 - 4000K - 26 DEG - REMOTE DRIVER REQUIRED	1	573	1	6.3



EXCEL
 Always a Better Plan
 100 Camelot Drive
 Fond du Lac, WI 54935
 920-926-9800
 excelengineer.com

PROJECT INFORMATION

PROPOSED OFFICES, SHOWROOM, AND WAREHOUSE FOR:
KTFM, LLC
 21055 CROSSROADS CIRCLE • TOWN OF BROOKFIELD, WI 53186

PROFESSIONAL SEAL

PRELIMINARY DATES
 APR. 19, 2023

NOT FOR CONSTRUCTION

JOB NUMBER
 230030600

SHEET NUMBER
C3.1




1 CONTEXT PLAN
 1" = 80'-0"

FIELD VERIFY ALL GIVEN DATA BEFORE PREPARATION OF SHOP DRAWINGS, CONSTRUCTION AND INSTALLATION.
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Proposed Offices, Showroom and Warehouse for:
KTFM, LLC
 21055 Crossroads Circle
 Town of Brookfield, WI 53186

ISSUE DATE:
 19 April, 2023
 SET TYPE:
 ZONING SUBMITTAL

REVISIONS:

NO.	DESCRIPTION	DATE

SITE CONTEXT PLAN
 PRINTED: 4/19/2023 10:53:55 AM
 PROJECT NUMBER
2236
 SHEET NUMBER
AS100

**PRELIMINARY
 NOT FOR CONSTRUCTION**

FOR PROPER INTERPRETATION, THESE DRAWINGS SHALL BE PRINTED IN COLOR.



1 EXTERIOR ELEVATION - EAST
3/32" = 1'-0"

- PREFINISHED METAL FASCIA & GUTTER (MTL-9)
- PREFINISHED METAL PANEL (MTL-3)
- ALUMINUM STOREFRONT GLAZING (SF)
- PRECAST WALL CAP (PC-1)
- PREFINISHED METAL DOWNSPOUT (MTL-10)
- ALUMINUM CURTAIN WALL GLAZING (CW)
- PREFINISHED METAL PANEL (MTL-5)
- BRICK MASONRY WALL (BM-1)
- ALUMINUM BUILDING SIGN
- PRECAST WALL CAP (PC-1)
- BLOCK MASONRY WALL (BM-2)
- WAREHOUSE
- PRECAST PIER CAP (PC-1)
- BLOCK MASONRY PIER (BM-3)
- WOOD BENCH SEAT (WD-1)
- STEEL PERGOLA (PT-2)
- BRICK MASONRY WALL (BM-1)
- BLOCK MASONRY WALL (BM-2)
- PREFINISHED METAL PANEL (MTL-4)
- PREFINISHED METAL COPING (MTL-12)
- PREFINISHED METAL SCREEN WALLS (MTL-6)
- PREFINISHED ALUMINUM SUNSHADES (MTL-7)
- ALUMINUM STOREFRONT GLAZING (SF)
- PREFINISHED METAL SILL (MTL-12)
- ENTRY CANOPY (MTL-12)
- ALUMINUM STOREFRONT ENTRY (SF)
- ALUMINUM BUILDING SIGN
- STEEL PERGOLA (PT-2)
- PREFINISHED METAL SCREEN WALL (MTL-6)
- PREFINISHED METAL FASCIA & SOFFIT (MTL-9&13)
- PREFINISHED METAL SIDING (MTL-2)
- ALUMINUM STOREFRONT GLAZING (SF)
- PREFINISHED METAL COPING (MTL-12)
- BRICK MASONRY WALL (BM-1)
- BLOCK MASONRY WALL (BM-2)
- PRECAST PIER CAP (PC-1)
- BLOCK MASONRY PIER (BM-3)
- WOOD BENCH SEAT (WD-1)



2 EXTERIOR ELEVATION - NORTH
3/32" = 1'-0"

- PREFINISHED METAL FASCIA & SOFFIT (MTL-9&13)
- PREFINISHED METAL SIDING (MTL-2)
- ALUMINUM STOREFRONT GLAZING (SF)
- PREFINISHED METAL PANEL (MTL-4)
- PREFINISHED ALUMINUM SUNSHADES (MTL-7)
- ALUMINUM STOREFRONT GLAZING (SF)
- PREFINISHED METAL SILL (MTL-12)
- BLOCK MASONRY WALL (BM-2)
- BLOCK MASONRY WALL (BM-2)
- BRICK MASONRY WALL (BM-1)
- PREFINISHED METAL COPING (MTL-12)
- PREFINISHED METAL SCREEN WALL (MTL-6)
- PREFINISHED METAL FASCIA & GUTTER (MTL-9)
- PREFINISHED METAL PANEL (MTL-3)
- PREFINISHED METAL SIDING (MTL-1)
- PREFINISHED METAL FASCIA & GUTTER (MTL-9)
- PREFINISHED METAL DOWNSPOUT (MTL-10)
- ROOF ACCESS LADDER (PT-2)
- PREFINISHED METAL SIDING (MTL-2)
- PREFINISHED METAL COPING (MTL-12)
- BLOCK MASONRY WALL (BM-3)
- BLOCK MASONRY WALL (BM-3)
- BLOCK MASONRY SCREEN WALL (BM-3)

EXTERIOR MATERIAL LEGEND		
MARK	DESCRIPTION	COLOR / FINISH
BM-1	BRICK MASONRY - PRIMARY BRICK WALLS	BRONZE N/F
BM-2	BLOCK MASONRY - MASONRY WALL BASE	DOVE GREY N/F
BM-3	BLOCK MASONRY - REFUSE ENCLOSURE, SITE SCREEN & PATIO PIERS	DOVE GREY N/F
CW	ALUMINUM CURTAIN WALL FRAMING SYSTEM	ANODIZED BLACK
MTL-1	METAL SIDING - WAREHOUSE - INSULATED, VERTICAL INSUL-RIB	CHARCOAL / PVDF
MTL-2	METAL SIDING - SHOWROOM - INSULATED, HORIZONTAL CORRUGATED	CHARCOAL / PVDF
MTL-3	METAL SIDING - WAREHOUSE - INSULATED, SMOOTH PANEL	CHARCOAL / PVDF
MTL-4	METAL SIDING - OFFICE - INSULATED, SMOOTH PANEL	CHARCOAL / PVDF
MTL-5	METAL PANEL - WAREHOUSE CANOPY & WING WALL - SMOOTH PANEL	MIDNIGHT BLACK / PVDF
MTL-6	METAL SIDING - MECHANICAL SCREEN, HORIZONTAL AND VERTICAL RIB	CHARCOAL TO MATCH (MTL-1)
MTL-7	PREFINISHED ALUMINUM - SUN SCREENS, SMOOTH PANEL	BLACK TO MATCH (MTL-5)
MTL-8	METAL LINER PANEL - INSULATED, SMOOTH PANEL	UNFINISHED
MTL-9	PREFINISHED METAL - FASCIA AND GUTTER	MIDNIGHT BLACK / PVDF
MTL-10	PREFINISHED METAL - DOWNSPOUT	CHARCOAL / PVDF
MTL-11	PREFINISHED METAL - MISC	CHARCOAL TO MATCH (MTL-1)
MTL-12	PREFINISHED METAL - MISC	BLACK TO MATCH (MTL-5)
MTL-13	PREFINISHED METAL - SOFFIT PANEL	MIDNIGHT BLACK / PVDF
MTL-14	PREFINISHED METAL - SITE SCREEN, VERTICAL RIB	CHARCOAL / PVDF
PC-1	PRECAST CONCRETE - WALL CAPS	GREY
PT-1	EXTERIOR PAINT	CHARCOAL TO MATCH (MTL-1)
PT-2	EXTERIOR PAINT	BLACK TO MATCH (MTL-5)
SF	ALUMINUM STOREFRONT FRAMING SYSTEM	ANODIZED BLACK
WD-1	WOOD BENCH SEAT	COLOR STAIN FINISH, TBD

**PRELIMINARY
NOT FOR CONSTRUCTION**

FOR PROPER
INTERPRETATION, THESE
DRAWINGS SHALL BE PRINTED
IN COLOR

FIELD VERIFY ALL GIVEN DATA BEFORE
PREPARATION OF SHOP DRAWINGS,
CONSTRUCTION AND INSTALLATION.

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Proposed Offices, Showroom and Warehouse for:
KTFM, LLC
21055 Crossroads Circle
Town of Brookfield, WI 53186

ISSUE DATE:
19 April, 2023

SET TYPE:
ZONING SUBMITTAL

REVISIONS:

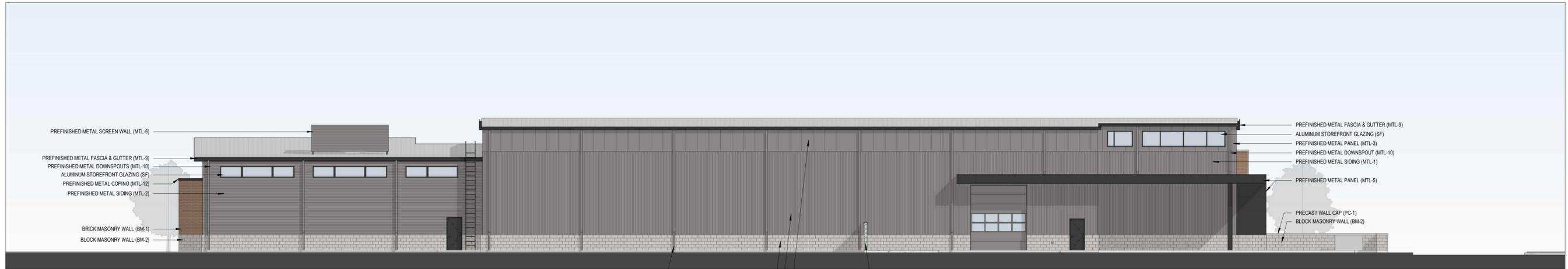
NO.	DESCRIPTION	DATE

EXTERIOR DESIGN
ELEVATIONS

PRINTED: 4/19/2023 10:58:18 AM

PROJECT NUMBER
2236

SHEET NUMBER
Z300



1 EXTERIOR ELEVATION - WEST
3/32" = 1'-0"



2 EXTERIOR ELEVATION - SOUTH
3/32" = 1'-0"

EXTERIOR MATERIAL LEGEND		
MARK	DESCRIPTION	COLOR / FINISH
BM-1	BRICK MASONRY - PRIMARY BRICK WALLS	BRONZE N/F
BM-2	BLOCK MASONRY - MASONRY WALL BASE	DOVE GREY N/F
BM-3	BLOCK MASONRY - REFUSE ENCLOSURE, SITE SCREEN & PATIO PIERS	DOVE GREY N/F
CW	ALUMINUM CURTAIN WALL FRAMING SYSTEM	ANODIZED BLACK
MTL-1	METAL SIDING - WAREHOUSE - INSULATED, VERTICAL INSUL RIB	CHARCOAL / PVDF
MTL-2	METAL SIDING - SHOWROOM - INSULATED, HORIZONTAL CORRUGATED	CHARCOAL / PVDF
MTL-3	METAL SIDING - WAREHOUSE - INSULATED, SMOOTH PANEL	CHARCOAL / PVDF
MTL-4	METAL SIDING - OFFICE - INSULATED, SMOOTH PANEL	CHARCOAL / PVDF
MTL-5	METAL PANEL - WAREHOUSE CANOPY & WING WALL - SMOOTH PANEL	MIDNIGHT BLACK / PVDF
MTL-6	METAL SIDING - MECHANICAL SCREEN, HORIZONTAL AND VERTICAL RIB	CHARCOAL TO MATCH (MTL-1)
MTL-7	PREFINISHED ALUMINUM - SUN SCREENS, SMOOTH PANEL	BLACK TO MATCH (MTL-5)
MTL-8	METAL LINER PANEL - INSULATED, SMOOTH PANEL	UNFINISHED
MTL-9	PREFINISHED METAL - FASCIA AND GUTTER	MIDNIGHT BLACK / PVDF
MTL-10	PREFINISHED METAL - DOWNSPOUT	CHARCOAL / PVDF
MTL-11	PREFINISHED METAL - MSC	CHARCOAL TO MATCH (MTL-1)
MTL-12	PREFINISHED METAL - MSC	BLACK TO MATCH (MTL-5)
MTL-13	PREFINISHED METAL - SOFFIT PANEL	MIDNIGHT BLACK / PVDF
MTL-14	PREFINISHED METAL - SITE SCREEN, VERTICAL RIB	CHARCOAL / PVDF
PC-1	PRECAST CONCRETE - WALL CAPS	GREY
PT-1	EXTERIOR PAINT	CHARCOAL TO MATCH (MTL-1)
PT-2	EXTERIOR PAINT	BLACK TO MATCH (MTL-5)
SF	ALUMINUM STOREFRONT FRAMING SYSTEM	ANODIZED BLACK
WD-1	WOOD BENCH SEAT	COLOR STAIN FINISH, TBD

**PRELIMINARY
NOT FOR CONSTRUCTION**

FOR PROPER
INTERPRETATION, THESE
DRAWINGS SHALL BE PRINTED
IN COLOR

REVISIONS:

NO.	DESCRIPTION	DATE



FIELD VERIFY ALL GIVEN DATA BEFORE PREPARATION OF SHOP DRAWINGS, CONSTRUCTION AND INSTALLATION.

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Proposed Offices, Showroom and Warehouse for:

KTFM, LLC
21055 Crossroads Circle
Town of Brookfield, WI 53186

ISSUE DATE:
19 April, 2023

SET TYPE:
ZONING SUBMITTAL

REVISIONS:

NO.	DESCRIPTION	DATE

PRESENTATION
DRAWING

PRINTED: 4/19/2023 11:03:58 AM

PROJECT NUMBER
2236

SHEET NUMBER
Z900

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Proposed Offices, Showroom and Warehouse for:

KTFM, LLC
21055 Crossroads Circle
Town of Brookfield, WI 53186

ISSUE DATE:

19 April, 2023

SET TYPE:

ZONING SUBMITTAL

REVISIONS:

NO.	DESCRIPTION	DATE

PRESENTATION DRAWING

PRINTED: 4/19/2023 2:06:19 PM

PROJECT NUMBER

2236

SHEET NUMBER

Z901

**PRELIMINARY
NOT FOR CONSTRUCTION**

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NPS Spot

PROJECT:

TYPE: **SP1**

SOURCE:

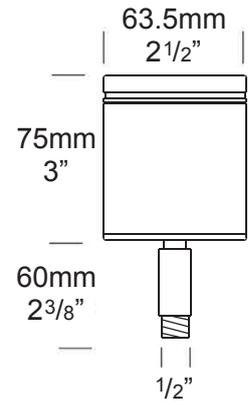
NOTES:

PURELED SPECIFICATIONS

LED Chip	Cree XHP-50-2 Plug and Play field replaceable LED board
Luminaire Output	600 Lumens @ 1050mA (6 watts), 420 Lumens @ 700mA (4 watts), 240 Lumens @ 350mA (2 watts), delivered from luminaire with unobstructed beam.
Lumens Per Watt	100 Lumens minimum @ 6 watts, delivered from luminaire with unobstructed beam
CRI (3000K)	90+
Colour Temperatures	2700K, 3000K, 4000K
Beam Angles	15, 25, 38, 60
Ingress Protection	IP66
Warranty	Electronics = 5 years Body Cop/ SS = 10 years Body Aluminium = 5 years
Standards	AS/NZS 61046 cUL 1838, 2108 CSA C22.2 No. 250.7, No. 250.0-08 CE



NPS Spot with Tree Mount Kit Accessory



PRODUCT CONFIGURATION

Please fill in appropriate codes into boxes provided

Cat. No. NPS/L

Luminaire	Power	Material/Finish	Beam	Colour	Accessories
<input type="text" value="NPS/L"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="S"/> 1050mA Input, Series Wired 6W <input type="text" value="D3"/> 12VAC Input, Parallel Wired 2W <input type="text" value="D7"/> 12VAC Input, Parallel Wired 4W <input type="text" value="D10"/> 12VAC Input, Parallel Wired 6W <input type="text" value="D24"/> 24VDC Input, Parallel Wired		ALUMINIUM <input type="text" value="EBK"/> BLACK <input type="text" value="EBZ"/> BRONZE <input type="text" value="EOGR"/> OLIVE GREEN <input type="text" value="EWH"/> WHITE <input type="text" value="EWB"/> WHITE BIRCH <input type="text" value="EDG"/> DARK GREY <input type="text" value="ESTAR"/> SILVER STAR <input type="text" value="ECT"/> CORTEN <input type="text" value="COP"/> SOLID COPPER <input type="text" value="SS"/> STAINLESS STEEL	<input type="text" value="15"/> 15° <input type="text" value="25"/> 25° <input type="text" value="38"/> 38° <input type="text" value="60"/> 60°	<input type="text" value="2"/> 2700K <input type="text" value="3"/> 3000K <input type="text" value="4"/> 4000K	<input type="text" value="CJK"/> CABLE JOINT KIT <input type="text" value="HCL"/> HEX CELL LOUVRE <input type="text" value="SNT"/> SNOOT <input type="text" value="GG"/> GLARE GUARD <input type="text" value="LF"/> FROSTED LENS <input type="text" value="LKN"/> LOCKING KNUCKLE <input type="text" value="SSP/G"/> SUPER SPIKE <input type="text" value="SSP/T"/> TREE MOUNT KIT <input type="text" value="SSP/TS"/> TREE MOUNT RUBBER STRAP KIT

SERIES, REMOTE DRIVER REQUIRED:
Constant current driver
Individual fixtures require 6vdc @ 1050mA maximum

12VAC INTEGRAL DRIVER:
Hunza integrated plug and play driver (included)
Input: 9-15VAC, 7watt total
Output: 6vdc @ D3=350mA, D7=700mA, D10=1050mA (1050mA limited to ≤ 40°C (104°F) ambient temperature in stainless steel)

24VDC DRIVER:
Input: 24vdc.
Output: 18vdc @ 700mA constant current (non dimming).
Note: not for USA

OTHER LAMP OPTIONS:

- NPS/H - MR16 Halogen 12V Lamp
- NPS/SL - MR16 LED Retrofit 12V Lamp (lamps vary by market - please refer to supplier for details)
- NPS/GUH - GU10 120/240V Halogen Lamp (body length increases for all GU10 lamps)
- NPS/GUSL - GU10 LED Retrofit 120/240V Lamp (lamps vary by market - please refer to supplier for details)

[Click here for 240v Remote Power Supply Guidance Charts](#)
[Click here for USA Remote Power Supply Guidance Charts](#)

[Click here for halogen specification sheet](#)

LUMINAIRE CONSTRUCTION

CNC machined from one of the following metals:

Aluminium:

Body: high corrosion resistant 63.5mm (2^{1/2}") x 10mm (3/8") aluminium.

End cap: solid aluminium 63.5mm (2^{1/2}") rod, with chromate substrate and high UV resistant polyester powder coat.

Colours:

Black, Bronze, Silver Star, White, White Birch, Olive Green, Dark Grey, Corten.

Copper:

Body: 63.5mm (2^{1/2}") x 10mm (3/8").

End cap: solid copper 63.5mm (2^{1/2}") rod.

316 Stainless Steel:

Body: 63.5mm (2^{1/2}") x 10mm (13/32").

End cap: solid 316 stainless steel 63.5 (2^{1/2}") rod.

Knuckles:

Aluminium and Copper luminaires - 360° rotation and 0-90° elevation, solid brass with anti rust spring.

Stainless Steel luminaires - 360° rotation and 0-90° elevation, full stainless steel construction.

Step Lens:

10mm (3/8") Extra clear, low iron, shatter resistant glass.

Lifetime warranty

Gaskets:

Silicone, iron impregnated 220°C (428°F)

Mounting:

Designed with a 1/2" NPS thread, this luminaire is easily fitted to a Hunza Super Spike or Hunza Tree Mount Kit. It also fits any 1/2" NPS threaded fitting.

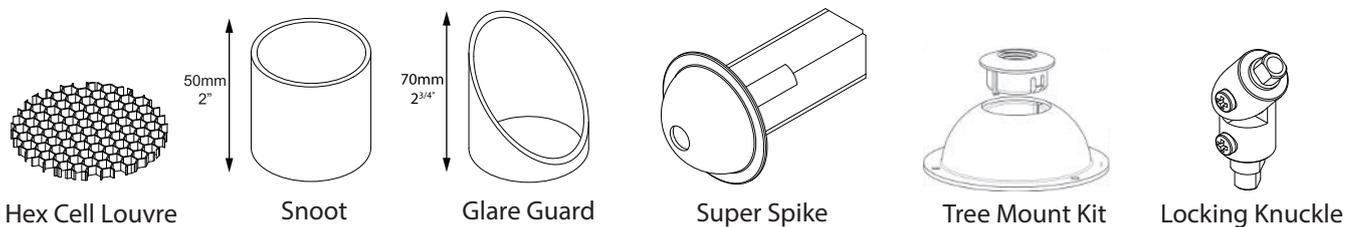
Luminaire Weight:

Alum: 0.450kg (15oz)

Cop: 1.250kg (2lb 12oz)

SS: 0.960kg (2lb 1oz)

ACCESSORIES



BEAM ANGLES

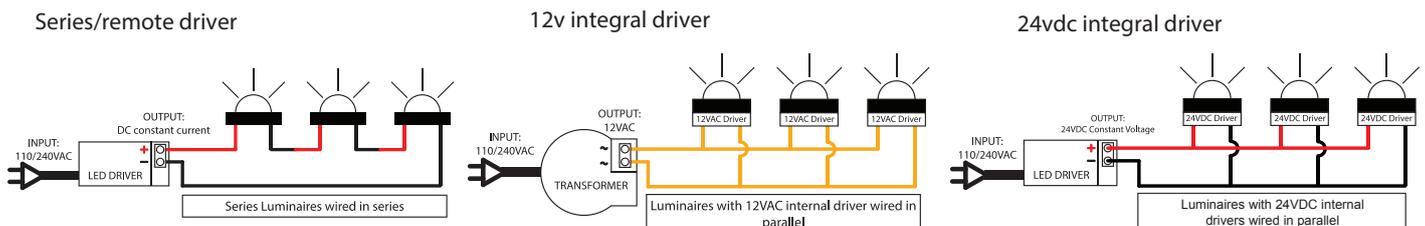
High efficiency PMMA TIR lenses. Field replaceable

IES files available for download: hunzalighting.com/downloads



WIRING GUIDE

Available for download: hunzalighting.com/downloads



Diagrams are a guide only, wire colours and polarity may change depending on fixture and country

Specifications may change without notification

Aug 2017



WEDGE1 LED

Architectural Wall Sconce



Catalog Number **WP1**

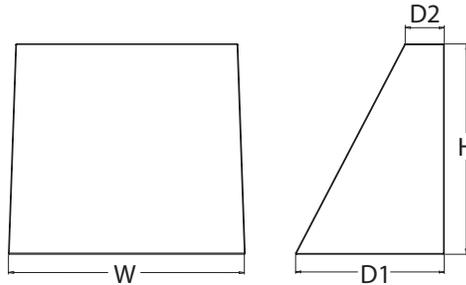
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1): 5.5"
Depth (D2): 1.5"
Height: 8"
Width: 9"
Weight: 9 lbs
 (without options)



Introduction

The WEDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WEDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WEDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

WEDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)					
				P1	P2	P3	P4	P5	P6
WEDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WEDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WEDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WEDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WEDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WEDGE1 LED	P1 P2	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K ¹ 5000K	80CRI 90CRI	VF Visual comfort forward throw VW Visual comfort wide	MVOLT ² 347 ²	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁵ Shipped separately AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available.

Options	Finish
E4WH³ Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min) PE⁴ Photocell, Button Type DS Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details) DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points. BAA Buy America(n) Act Compliant	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

Accessories

Ordered and shipped separately.

WEDGEAWS DDBXD WEDGE 3/8inch Architectural Wall Spacer (specify finish)
 WEDGE1PBBW DDBXD U WEDGE1 surface-mounted back box (specify finish)

NOTES

- 50K not available in 90CRI.
- 347V not available with E4WH, DS or PE.
- E4WH not available with PE or DS.
- PE not available with DS.
- Not qualified for DLC. Not available with E4WH.



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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WEDGE1 LED
 Rev. 11/21/22

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	10W	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0
		VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
P2	15W	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0
		VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	10W	0.082	0.049	0.043	0.038	--
	13W	--	--	--	--	0.046
P2	15W	0.132	0.081	0.072	0.064	--
	18W	--	--	--	--	0.056

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C / 32°F	1.03
10°C / 50°F	1.02
20°C / 68°F	1.01
25°C / 77°F	1.00
30°C / 86°F	0.99
40°C / 104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91

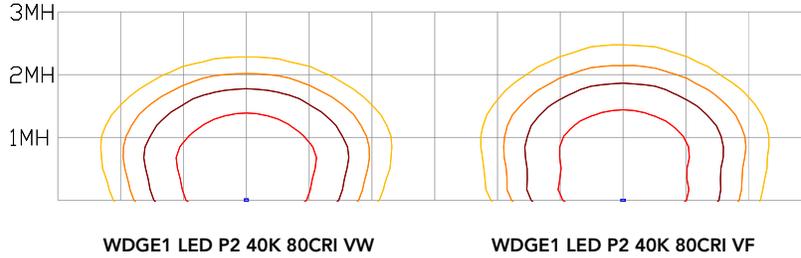
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND



MH = 8ft
Grid = 8ft x 8ft



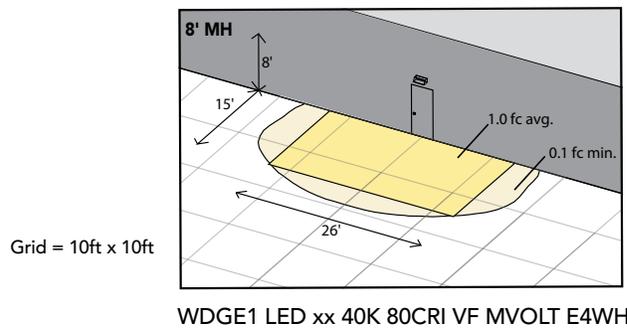
Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90 minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

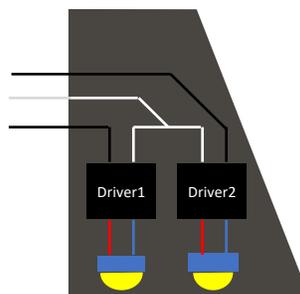
The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E4WH and VF distribution.



Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9





E4WH – 4W Emergency Battery Backup

D = 5.5"

H = 8"

W = 9"



PBBW – Surface-Mounted Back Box

Use when there is no junction box available.

D = 1.75"

H = 8"

W = 9"



AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine consists of high-efficiency LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN ACT

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

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

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



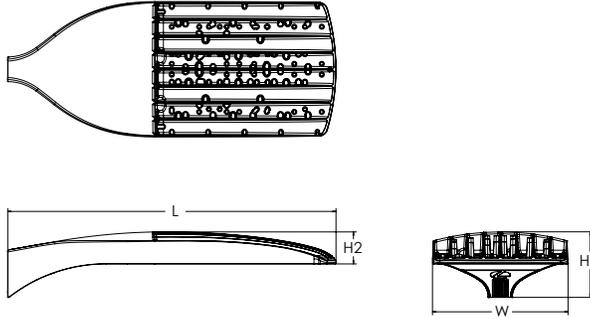
D-Series Size 2 LED Area Luminaire



d#series

Specifications

EPA:	1.06 ft ² (0.10 m ²)
Length:	40.59" (103.1 cm)
Width:	16.76" (42.6 cm)
Height H1:	8.11" (20.6 cm)
Height H2:	3.96" (10.1 cm)
Weight:	46 lbs (20.9 kg)



Catalog Number	L12 & L14 W/20' POLE
Notes	
Type	

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of up to 80% vs. 1000W HID and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX2 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX2 LED	Series	LEDs	Color temperature ²	Color Rendering Index ²	Distribution	Voltage	Mounting						
DSX2 LED	Forward optics	P1 P5 P2 P6 P3 P7 P4 P8	(this section 70CRI only)		AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare ³ T4M Type IV medium T4LG Type IV low glare ³ TFTM Forward throw medium	T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control ³ BLC4 Type IV backlight control ³ LCCO Left corner cutoff ³ RCCO Right corner cutoff ³	MVOLT (120V-277V) ⁴ HVOLT (347V-480V) ^{5,6} XVOLT (277V - 480V) ^{7,8}	Shipped included SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPA5 Square pole mounting #5 drilling ⁹ RPA5 Round pole mounting #5 drilling ⁹ SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket ¹⁰ MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)					
			30K 3000K	70CRI					I2M Type II medium L12				
			40K 4000K	70CRI					T4M Type IV medium L14				
			50K 5000K	70CRI									
			(this section 80CRI only, extended lead times apply)										
			Rotated optics										
			P10 ¹ P13 ¹	27K 2700K					80CRI				
			P11 ¹ P14 ¹	30K 3000K					80CRI				
	P12 ¹	35K 3500K	80CRI										
		40K 4000K	80CRI										
		50K 5000K	80CRI										

Control options	Other options	Finish (required)
<p>Shipped installed</p> <p>NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient senso, 8-40' mounting height, ambient sensor enabled at 2fc.^{11, 12, 20, 21}</p> <p>PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.^{13, 20, 21}</p> <p>PER NEMA twist-lock receptacle only (controls ordered separate)¹⁴</p> <p>PERS Five-pin receptacle only (controls ordered separate)^{14, 21}</p> <p>PER7 Seven-pin receptacle only (controls ordered separate)^{14, 21}</p> <p>FAO Field adjustable output^{15, 21}</p> <p>BL30 Bi-level switched dimming, 30%^{16, 21}</p> <p>BL50 Bi-level switched dimming, 50%^{16, 21}</p> <p>DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)¹⁷</p> <p>DS Dual switching^{18, 19, 21}</p>	<p>Shipped installed</p> <p>SPD20KV 20KV surge protection</p> <p>HS Houseside shield (black finish standard)²²</p> <p>L90 Left rotated optics¹</p> <p>R90 Right rotated optics¹</p> <p>CCE Coastal Construction²³</p> <p>HA 50°C ambient operation²⁴</p> <p>Shipped separately</p> <p>EGSR External Glare Shield (reversible, field install required, matches housing finish)</p> <p>BSDB Bird Spikes (field install required)</p>	<p>DDBXD Dark Bronze</p> <p>DBLXD Black</p> <p>DNAXD Natural Aluminum</p> <p>DWHXD White</p> <p>DDBTXD Textured dark bronze</p> <p>DBLBXD Textured black</p> <p>DNATXD Textured natural aluminum</p> <p>DWHGXD Textured white</p>



Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁵
DSHORT SBK	Shorting cap ²⁵
DSX2HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPAS (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX2B5DB (FINISH)	Bird spike deterrent bracket (specify finish)

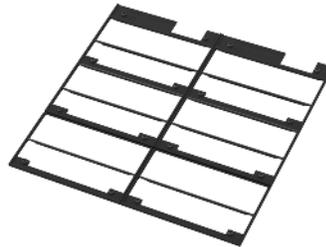
NOTES

- Rotated optics available with packages P10, P11, P12, P13 and P14. Must be combined with option L90 or R90.
- 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- HVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- HVOLT not available with package P10 when combined with option NLTAIR2 PIRHN or option PIR.
- XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- XVOLT not available in package P10.
- SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
- WBA cannot be combined with Type 5 distributions plus photocell (PER).
- NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this [link](#).
- NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P10 using HVOLT. NLTAIR2 PIRHN not available with P10 using XVOLT.
- PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P10 using HVOLT. PIR not available with P10 using XVOLT.
- PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
- BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS.
- DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
- DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
- DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads on P1, P2, P3, P4, P5 (2 drivers). Note: Provides 60/40 operation using (2) different sets of leads on P6, P7, P8, P9, P10, P11, P12, P13, P14 (3 drivers).
- Reference Motion Sensor Default Settings table on page 4 to see functionality.
- Reference Controls Options table on page 4.
- HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- CCE option not available with option BS and EGSR. Contact Technical Support for availability.
- Option HA not available with performance packages P5, P6, P7, P8, P13 and P14.
- 25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.

Shield Accessories



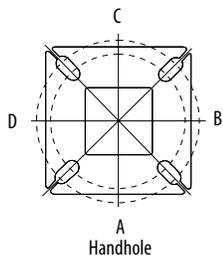
External Glare Shield (EGSR)



House Side Shield (HS)

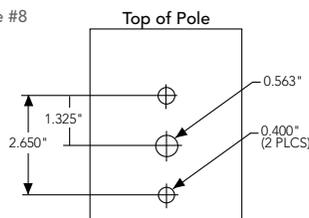
Drilling

HANDHOLE ORIENTATION



Handhole

Template #8



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX2 Area Luminaire - EPA

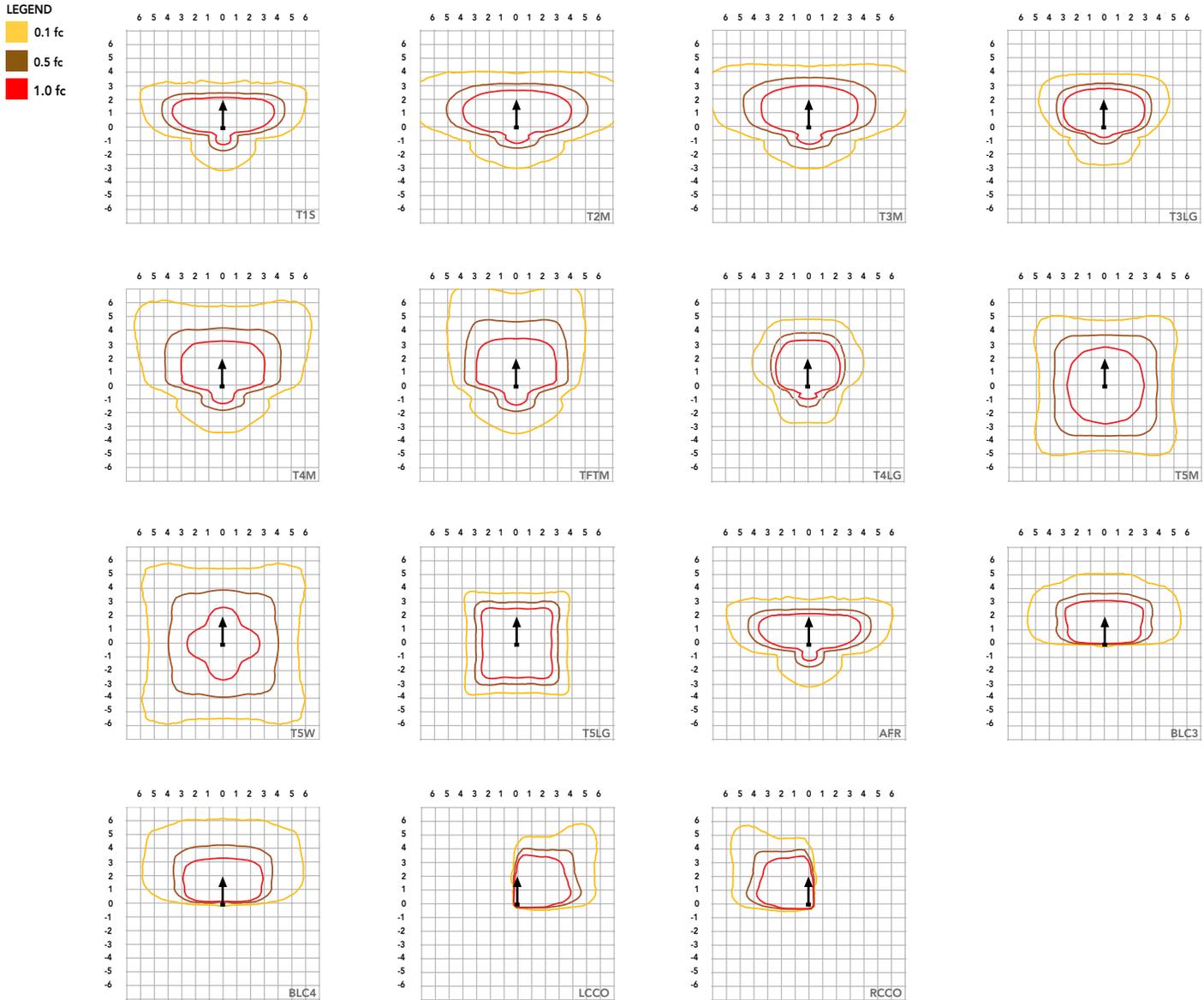
*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX2 with SPA	1.06	2.12	1.84	2.32	---	2.33
DSX2 with SPA5, SPA8N	1.07	2.14	1.90	2.43	---	2.44
DSX2 with RPA, RPA5	1.07	2.14	1.90	2.43	2.31	2.44
DSX2 with MA	1.20	2.40	2.12	3.00	2.92	3.00

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [homepage](#).

Isofootcandle plots for the DSX2 LED P8 40K 70CRI. Distances are in units of mounting height (40').



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.03
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.82

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)					
					120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	80	530	135	1.12	0.65	0.56	0.49	0.39	0.28
	P2	80	700	181	1.49	0.86	0.75	0.65	0.52	0.37
	P3	80	850	222	1.83	1.05	0.91	0.79	0.63	0.46
	P4	80	1050	277	2.27	1.31	1.14	0.98	0.79	0.57
	P5	80	1250	333	2.72	1.57	1.36	1.18	0.94	0.68
	P6	100	1050	345	2.85	1.64	1.42	1.23	0.98	0.71
	P7	100	1250	414	3.41	1.97	1.70	1.48	1.18	0.85
	P8	100	1400	466	3.85	2.22	1.93	1.67	1.33	0.96
Rotated Optics (Requires L90 or R90)	P10	90	530	152	1.27	0.73	0.63	0.55	0.44	0.32
	P11	90	700	203	1.69	0.97	0.84	0.73	0.58	0.42
	P12	90	850	249	2.06	1.19	1.03	0.89	0.71	0.52
	P13	90	1200	358	2.95	1.70	1.47	1.28	1.02	0.74
	P14	90	1400	421	3.46	2.00	1.73	1.50	1.20	0.87

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P1	135W	80	530	T1S	19,946	2	0	3	148	20,787	2	0	3	155	21,192	2	0	3	158				
				T2M	18,477	3	0	4	137	19,256	3	0	4	143	19,632	3	0	4	146				
				T3M	18,691	3	0	5	139	19,480	3	0	5	145	19,859	3	0	5	148				
				T3LG	16,696	2	0	2	124	17,400	2	0	2	129	17,740	2	0	2	132				
				T4M	18,970	3	0	5	141	19,770	3	0	5	147	20,155	3	0	5	150				
				T4LG	17,253	2	0	2	128	17,981	2	0	2	134	18,331	2	0	2	136				
				TFTM	19,101	3	0	5	142	19,907	3	0	5	148	20,295	3	0	5	151				
				T5M	19,517	5	0	3	145	20,341	5	0	3	151	20,737	5	0	3	154				
				T5W	19,834	5	0	3	147	20,670	5	0	3	154	21,073	5	0	3	157				
				T5LG	19,574	4	0	2	146	20,400	4	0	2	152	20,797	4	0	2	155				
				BLC3	13,595	0	0	3	101	14,169	0	0	3	105	14,445	0	0	3	107				
				BLC4	14,042	0	0	4	104	14,634	0	0	4	109	14,919	0	0	4	111				
				RCCO	13,718	1	0	3	102	14,297	1	0	3	106	14,576	1	0	3	108				
				LCCO	13,718	1	0	3	102	14,297	1	0	3	106	14,576	1	0	3	108				
				AFR	19,946	2	0	3	148	20,787	2	0	3	155	21,192	2	0	3	158				
				P2	179W	80	700	T1S	25,520	3	0	3	142	26,597	3	0	3	148	27,116	3	0	3	151
								T2M	23,641	3	0	5	132	24,638	3	0	5	137	25,118	3	0	5	140
T3M	23,915	3	0					5	133	24,924	3	0	5	139	25,410	3	0	5	142				
T3LG	21,363	3	0					3	119	22,264	3	0	3	124	22,698	3	0	3	127				
T4M	24,272	3	0					5	135	25,296	3	0	5	141	25,789	3	0	5	144				
T4LG	22,075	3	0					3	123	23,006	3	0	3	128	23,455	3	0	3	131				
TFTM	24,440	3	0					5	136	25,471	3	0	5	142	25,967	3	0	5	145				
T5M	24,972	5	0					3	139	26,026	5	0	3	145	26,533	5	0	4	148				
T5W	25,377	5	0					4	142	26,448	5	0	4	148	26,963	5	0	4	150				
T5LG	25,045	4	0					2	140	26,101	4	0	2	146	26,610	4	0	2	148				
BLC3	17,395	0	0					4	97	18,129	0	0	4	101	18,482	0	0	4	103				
BLC4	17,966	0	0					4	100	18,724	0	0	5	104	19,089	0	0	5	107				
RCCO	17,552	1	0					4	98	18,293	1	0	4	102	18,649	1	0	4	104				
LCCO	17,552	1	0					4	98	18,293	1	0	4	102	18,649	1	0	4	104				
AFR	25,520	3	0					3	142	26,597	3	0	3	148	27,116	3	0	3	151				
P3	219W	80	850					T1S	30,127	3	0	4	137	31,398	3	0	4	143	32,010	3	0	4	146
								T2M	27,908	3	0	5	127	29,085	3	0	5	133	29,652	3	0	5	135
				T3M	28,232	3	0	5	129	29,423	3	0	5	134	29,996	3	0	5	137				
				T3LG	25,218	3	0	3	115	26,282	3	0	3	120	26,794	3	0	3	122				
				T4M	28,652	3	0	5	131	29,861	3	0	5	136	30,443	3	0	5	139				
				T4LG	26,059	3	0	3	119	27,159	3	0	3	124	27,688	3	0	3	126				
				TFTM	28,851	3	0	5	132	30,068	3	0	5	137	30,654	3	0	5	140				
				T5M	29,479	5	0	4	134	30,723	5	0	4	140	31,322	5	0	4	143				
				T5W	29,957	5	0	4	137	31,221	5	0	4	142	31,830	5	0	4	145				
				T5LG	29,565	4	0	2	135	30,812	5	0	2	140	31,413	5	0	2	143				
				BLC3	20,535	0	0	4	94	21,401	0	0	4	98	21,818	0	0	4	99				
				BLC4	21,209	0	0	5	97	22,104	0	0	5	101	22,534	0	0	5	103				
				RCCO	20,720	1	0	4	94	21,594	1	0	4	98	22,015	1	0	4	100				
				LCCO	20,720	1	0	4	94	21,594	1	0	4	98	22,015	1	0	4	100				
				AFR	30,127	3	0	4	137	31,398	3	0	4	143	32,010	3	0	4	146				
				P4	273W	80	1050	T1S	35,879	3	0	4	132	37,392	3	0	4	137	38,121	3	0	4	140
								T2M	33,236	3	0	5	122	34,638	3	0	5	127	35,313	3	0	5	130
T3M	33,622	3	0					5	123	35,040	3	0	5	129	35,723	3	0	5	131				
T3LG	30,033	3	0					4	110	31,300	3	0	4	115	31,910	3	0	4	117				
T4M	34,123	3	0					5	125	35,562	3	0	5	130	36,255	3	0	5	133				
T4LG	31,035	3	0					4	114	32,344	3	0	4	119	32,974	3	0	4	121				
TFTM	34,359	3	0					5	126	35,808	3	0	5	131	36,506	3	0	5	134				
T5M	35,108	5	0					4	129	36,589	5	0	4	134	37,302	5	0	4	137				
T5W	35,677	5	0					4	131	37,182	5	0	5	136	37,907	5	0	5	139				
T5LG	35,209	5	0					3	129	36,695	5	0	3	135	37,410	5	0	3	137				
BLC3	24,456	0	0					4	90	25,487	0	0	4	93	25,984	0	0	5	95				
BLC4	25,258	0	0					5	93	26,324	0	0	5	97	26,837	0	0	5	98				
RCCO	24,676	1	0					4	91	25,717	1	0	4	94	26,218	1	0	4	96				
LCCO	24,676	1	0					4	91	25,717	1	0	4	94	26,218	1	0	4	96				
AFR	35,879	3	0					4	132	37,392	3	0	4	137	38,121	3	0	4	140				

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P5	327W	80	1250	T1S	41,149	3	0	4	126	42,885	3	0	4	131	43,721	3	0	4	134				
				T2M	38,118	4	0	5	117	39,727	4	0	5	122	40,501	4	0	5	124				
				T3M	38,561	3	0	5	118	40,187	3	0	5	123	40,971	3	0	5	125				
				T3LG	34,445	3	0	4	105	35,898	3	0	4	110	36,598	3	0	4	112				
				T4M	39,135	3	0	5	120	40,786	3	0	5	125	41,581	3	0	5	127				
				T4LG	35,594	3	0	4	109	37,095	3	0	4	114	37,818	3	0	4	116				
				TFTM	39,406	3	0	5	121	41,069	3	0	5	126	41,869	3	0	5	128				
				T5M	40,265	5	0	4	123	41,964	5	0	4	128	42,782	5	0	5	131				
				T5W	40,918	5	0	5	125	42,644	5	0	5	131	43,475	5	0	5	133				
				T5LG	40,382	5	0	3	124	42,085	5	0	3	129	42,906	5	0	3	131				
				BLC3	28,048	0	0	5	86	29,231	0	0	5	90	29,801	0	0	5	91				
				BLC4	28,969	0	0	5	89	30,191	0	0	5	92	30,779	0	0	5	94				
				RCCO	28,301	2	0	5	87	29,495	2	0	5	90	30,070	2	0	5	92				
				LCCO	28,301	2	0	5	87	29,495	2	0	5	90	30,070	2	0	5	92				
				AFR	41,149	3	0	4	126	42,885	3	0	4	131	43,721	3	0	4	134				
				P6	342W	100	1050	T1S	45,968	3	0	4	135	47,907	3	0	5	140	48,841	3	0	5	143
								T2M	42,582	4	0	5	125	44,379	4	0	5	130	45,244	4	0	5	132
T3M	43,076	4	0					5	126	44,894	4	0	5	131	45,769	4	0	5	134				
T3LG	38,479	3	0					4	113	40,102	3	0	4	117	40,884	3	0	4	120				
T4M	43,719	4	0					5	128	45,563	4	0	5	133	46,451	4	0	5	136				
T4LG	39,762	3	0					4	116	41,439	3	0	4	121	42,247	3	0	4	124				
TFTM	44,021	3	0					5	129	45,878	4	0	5	134	46,772	4	0	5	137				
T5M	44,980	5	0					5	132	46,878	5	0	5	137	47,792	5	0	5	140				
T5W	45,710	5	0					5	134	47,638	5	0	5	139	48,566	5	0	5	142				
T5LG	45,111	5	0					3	132	47,014	5	0	3	138	47,930	5	0	3	140				
BLC3	31,333	0	0					5	92	32,655	0	0	5	96	33,291	0	0	5	97				
BLC4	32,361	0	0					5	95	33,726	0	0	5	99	34,384	0	0	5	101				
RCCO	31,615	2	0					5	93	32,949	2	0	5	96	33,591	2	0	5	98				
LCCO	31,615	2	0					5	93	32,949	2	0	5	96	33,591	2	0	5	98				
AFR	45,968	3	0					4	135	47,907	3	0	5	140	48,841	3	0	5	143				
P7	409W	100	1250					T1S	52,692	3	0	5	129	54,915	3	0	5	134	55,986	3	0	5	137
								T2M	48,811	4	0	5	119	50,871	4	0	5	124	51,862	4	0	5	127
				T3M	49,378	4	0	5	121	51,461	4	0	5	126	52,464	4	0	5	128				
				T3LG	44,107	3	0	4	108	45,968	3	0	4	112	46,864	3	0	5	115				
				T4M	50,114	4	0	5	122	52,228	4	0	5	128	53,246	4	0	5	130				
				T4LG	45,579	3	0	4	111	47,501	3	0	4	116	48,427	3	0	4	118				
				TFTM	50,460	4	0	5	123	52,589	4	0	5	129	53,614	4	0	5	131				
				T5M	51,560	5	0	5	126	53,735	5	0	5	131	54,783	5	0	5	134				
				T5W	52,396	5	0	5	128	54,607	5	0	5	133	55,671	5	0	5	136				
				T5LG	51,710	5	0	4	126	53,891	5	0	4	132	54,941	5	0	4	134				
				BLC3	35,916	1	0	5	88	37,431	1	0	5	91	38,161	1	0	5	93				
				BLC4	37,095	0	0	5	91	38,660	0	0	5	94	39,413	0	0	5	96				
				RCCO	36,240	2	0	5	89	37,769	2	0	5	92	38,505	2	0	5	94				
				LCCO	36,240	2	0	5	89	37,769	2	0	5	92	38,505	2	0	5	94				
				AFR	52,692	3	0	5	129	54,915	3	0	5	134	55,986	3	0	5	137				
				P8	462W	100	1400	T1S	57,662	3	0	5	125	60,094	4	0	5	130	61,266	4	0	5	132
								T2M	53,415	4	0	5	116	55,668	4	0	5	120	56,753	4	0	5	123
T3M	54,034	4	0					5	117	56,314	4	0	5	122	57,412	4	0	5	124				
T3LG	48,267	3	0					5	104	50,304	3	0	5	109	51,284	4	0	5	111				
T4M	54,840	4	0					5	119	57,154	4	0	5	124	58,268	4	0	5	126				
T4LG	49,877	3	0					5	108	51,981	3	0	5	112	52,994	3	0	5	115				
TFTM	55,219	4	0					5	119	57,549	4	0	5	124	58,671	4	0	5	127				
T5M	56,423	5	0					5	122	58,803	5	0	5	127	59,949	5	0	5	130				
T5W	57,338	5	0					5	124	59,757	5	0	5	129	60,921	5	0	5	132				
T5LG	56,586	5	0					4	122	58,974	5	0	4	128	60,123	5	0	4	130				
BLC3	39,303	1	0					5	85	40,962	1	0	5	89	41,760	1	0	5	90				
BLC4	40,593	0	0					5	88	42,306	0	0	5	91	43,130	0	0	5	93				
RCCO	39,658	2	0					5	86	41,331	2	0	5	89	42,137	2	0	5	91				
LCCO	39,658	2	0					5	86	41,331	2	0	5	89	42,137	2	0	5	91				
AFR	57,662	3	0					5	125	60,094	4	0	5	130	61,266	4	0	5	132				

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Rotated Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P10	152W	90	530	T1S	22,798	4	0	4	150	23,760	4	0	4	156	24,223	4	0	4	159				
				T2M	21,119	5	0	5	139	22,010	5	0	5	145	22,439	5	0	5	148				
				T3M	21,361	5	0	5	141	22,262	5	0	5	147	22,696	5	0	5	149				
				T3LG	19,084	4	0	4	126	19,889	4	0	4	131	20,277	4	0	4	133				
				T4M	21,679	5	0	5	143	22,594	5	0	5	149	23,034	5	0	5	152				
				T4LG	19,717	4	0	4	130	20,549	4	0	4	135	20,950	4	0	4	138				
				TFTM	21,833	5	0	5	144	22,754	5	0	5	150	23,197	5	0	5	153				
				T5M	22,305	5	0	3	147	23,246	5	0	3	153	23,699	5	0	3	156				
				T5W	22,667	5	0	3	149	23,623	5	0	4	155	24,084	5	0	4	158				
				T5LG	22,370	4	0	2	147	23,314	4	0	2	153	23,768	4	0	2	156				
				BLC3	15,539	4	0	4	102	16,194	4	0	4	107	16,510	4	0	4	109				
				BLC4	16,048	4	0	4	106	16,725	4	0	4	110	17,051	4	0	4	112				
				RCCO	15,679	1	0	3	103	16,340	1	0	3	108	16,659	1	0	3	110				
				LCCO	15,679	1	0	3	103	16,340	1	0	3	108	16,659	1	0	3	110				
				AFR	22,798	4	0	4	150	23,760	4	0	4	156	24,223	4	0	4	159				
				P11	203W	90	700	T1S	29,222	4	0	4	144	30,455	4	0	4	150	31,048	4	0	4	153
								T2M	27,070	5	0	5	134	28,212	5	0	5	139	28,762	5	0	5	142
T3M	27,380	5	0					5	135	28,535	5	0	5	141	29,091	5	0	5	144				
T3LG	24,462	4	0					4	121	25,493	4	0	4	126	25,990	4	0	4	128				
T4M	27,788	5	0					5	137	28,960	5	0	5	143	29,525	5	0	5	146				
T4LG	25,273	4	0					4	125	26,339	4	0	4	130	26,853	4	0	4	133				
TFTM	27,985	5	0					5	138	29,165	5	0	5	144	29,734	5	0	5	147				
T5M	28,591	5	0					4	141	29,797	5	0	4	147	30,377	5	0	4	150				
T5W	29,054	5	0					4	143	30,280	5	0	4	149	30,870	5	0	4	152				
T5LG	28,673	4	0					2	142	29,883	4	0	2	148	30,465	5	0	2	150				
BLC3	19,917	4	0					4	98	20,757	4	0	4	102	21,162	4	0	4	104				
BLC4	20,570	5	0					5	102	21,437	5	0	5	106	21,855	5	0	5	108				
RCCO	20,097	1	0					4	99	20,945	1	0	4	103	21,353	1	0	4	105				
LCCO	20,097	1	0					4	99	20,945	1	0	4	103	21,353	1	0	4	105				
AFR	29,222	4	0					4	144	30,455	4	0	4	150	31,048	4	0	4	153				
P12	248W	90	850					T1S	34,526	5	0	5	139	35,983	5	0	5	145	36,684	5	0	5	148
								T2M	31,984	5	0	5	129	33,333	5	0	5	135	33,983	5	0	5	137
				T3M	32,350	5	0	5	131	33,715	5	0	5	136	34,372	5	0	5	139				
				T3LG	28,902	4	0	4	117	30,121	4	0	4	122	30,708	4	0	4	124				
				T4M	32,832	5	0	5	133	34,217	5	0	5	138	34,884	5	0	5	141				
				T4LG	29,861	4	0	4	121	31,120	4	0	4	126	31,727	5	0	4	128				
				TFTM	33,064	5	0	5	134	34,459	5	0	5	139	35,131	5	0	5	142				
				T5M	33,780	5	0	4	136	35,205	5	0	4	142	35,891	5	0	4	145				
				T5W	34,327	5	0	4	139	35,776	5	0	4	145	36,473	5	0	4	147				
				T5LG	33,878	5	0	3	137	35,307	5	0	3	143	35,995	5	0	3	145				
				BLC3	23,532	5	0	5	95	24,525	5	0	5	99	25,003	5	0	5	101				
				BLC4	24,303	5	0	5	98	25,328	5	0	5	102	25,822	5	0	5	104				
				RCCO	23,745	1	0	4	96	24,747	1	0	4	100	25,229	1	0	4	102				
				LCCO	23,745	1	0	4	96	24,747	1	0	4	100	25,229	1	0	4	102				
				AFR	34,526	5	0	5	139	35,983	5	0	5	145	36,684	5	0	5	148				

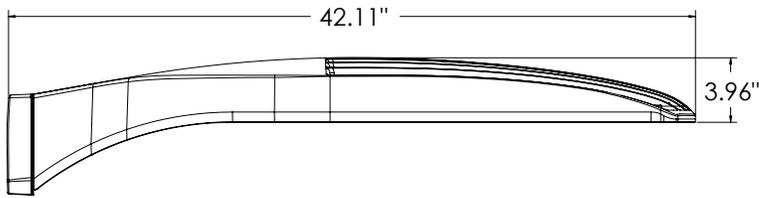
Performance Data

Lumen Output

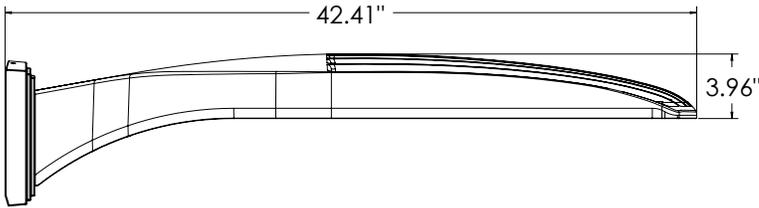
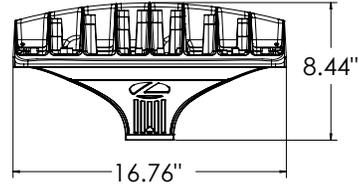
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Rotated Optics																			
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P13	354W	90	1200	T1S	45,748	5	0	5	129	47,678	5	0	5	135	48,608	5	0	5	137
				T2M	42,380	5	0	5	120	44,168	5	0	5	125	45,029	5	0	5	127
				T3M	42,865	5	0	5	121	44,673	5	0	5	126	45,544	5	0	5	129
				T3LG	38,296	5	0	5	108	39,911	5	0	5	113	40,689	5	0	5	115
				T4M	43,503	5	0	5	123	45,339	5	0	5	128	46,222	5	0	5	131
				T4LG	39,566	5	0	5	112	41,235	5	0	5	117	42,039	5	0	5	119
				TFTM	43,811	5	0	5	124	45,659	5	0	5	129	46,549	5	0	5	132
				T5M	44,760	5	0	5	126	46,648	5	0	5	132	47,557	5	0	5	134
				T5W	45,485	5	0	5	129	47,404	5	0	5	134	48,328	5	0	5	137
				T5LG	44,889	5	0	3	127	46,783	5	0	3	132	47,695	5	0	3	135
				BLC3	31,181	5	0	5	88	32,496	5	0	5	92	33,130	5	0	5	94
				BLC4	32,202	5	0	5	91	33,561	5	0	5	95	34,215	5	0	5	97
				RCCO	31,463	2	0	5	89	32,790	2	0	5	93	33,429	2	0	5	94
				LCCO	31,463	2	0	5	89	32,790	2	0	5	93	33,429	2	0	5	94
				AFR	45,748	5	0	5	129	47,678	5	0	5	135	48,608	5	0	5	137
				P14	415W	90	1400	T1S	51,272	5	0	5	123	53,435	5	0	5	129	54,476
T2M	47,497	5	0					5	114	49,500	5	0	5	119	50,465	5	0	5	121
T3M	48,040	5	0					5	116	50,067	5	0	5	121	51,043	5	0	5	123
T3LG	42,919	5	0					5	103	44,730	5	0	5	108	45,602	5	0	5	110
T4M	48,756	5	0					5	117	50,813	5	0	5	122	51,803	5	0	5	125
T4LG	44,343	5	0					5	107	46,214	5	0	5	111	47,115	5	0	5	113
TFTM	49,101	5	0					5	118	51,172	5	0	5	123	52,169	5	0	5	126
T5M	50,164	5	0					5	121	52,280	5	0	5	126	53,299	5	0	5	128
T5W	50,977	5	0					5	123	53,127	5	0	5	128	54,163	5	0	5	130
T5LG	50,309	5	0					4	121	52,432	5	0	4	126	53,453	5	0	4	129
BLC3	34,945	5	0					5	84	36,420	5	0	5	88	37,130	5	0	5	89
BLC4	36,090	5	0					5	87	37,613	5	0	5	91	38,346	5	0	5	92
RCCO	35,261	2	0					5	85	36,749	2	0	5	88	37,465	2	0	5	90
LCCO	35,261	2	0					5	85	36,749	2	0	5	88	37,465	2	0	5	90
AFR	51,272	5	0					5	123	53,435	5	0	5	129	54,476	5	0	5	131

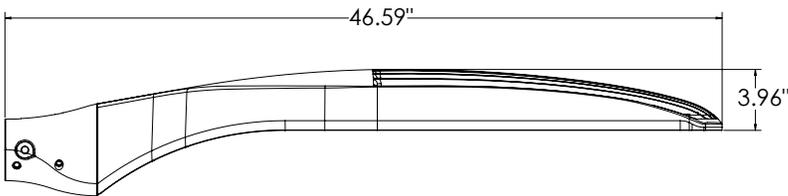
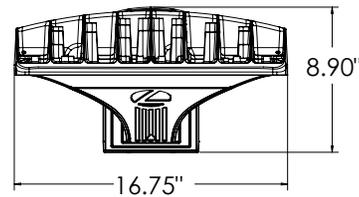
Dimensions



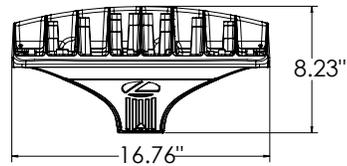
DSX2 with RPA, RPA5, SPA5, SPA8N mount
Weight: 48 lbs



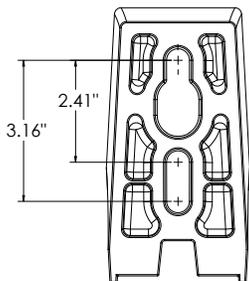
DSX2 with WBA mount
Weight: 50 lbs



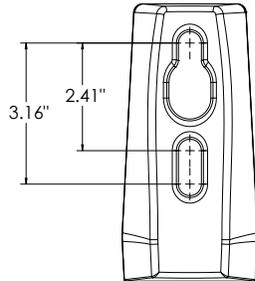
DSX2 with MA mount
Weight: 50 lbs



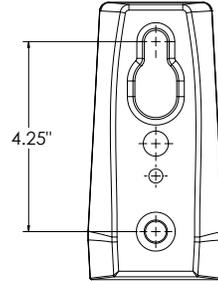
SPA (STANDARD ARM)



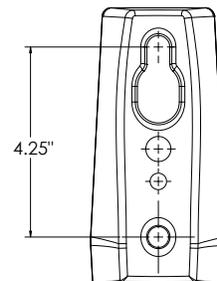
RPA



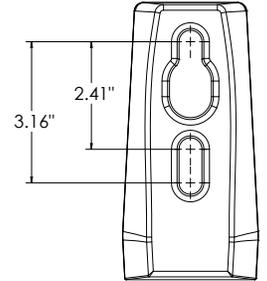
SPA5



RPA5

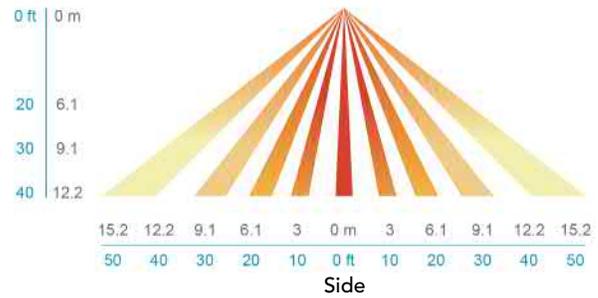
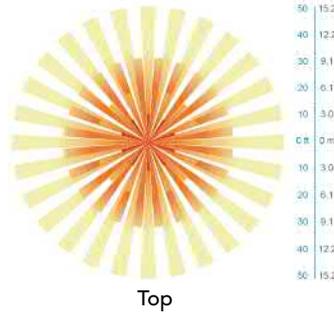


SPA8N



nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 1.5G. Low EPA (1.06 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

Coastal Construction (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L82/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

STANDARD CONTROLS

The DSX2 LED area luminaire has a number of control options. DSX Size 2, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX2 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

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

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.

Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step MacAdam Ellipse; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

A+ CAPABLE LUMINAIRE — This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products. All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates. To learn more about A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

UGR — UGR is zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg, per CIE 117-1996 Discomfort Glare in Interior Lighting.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

LUMEN MAINTENANCE — 70% lumen maintenance at 60,000 hours. L70/60,000 hours

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product. Drivers are RoHS compliant

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed.

Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

PERFORMANCE DATA

LDN6 3500K AR LSS 80CRI			
Nominal Lumens	Lumens	Wattage	Lm/W
500	527.9	5.8	90.5
750	758.1	8.9	85.1
1000	950.1	10.4	91.0
1500	1514	17.5	86.4
2000	2006	22.5	89.1
2500	2504	28.3	88.6
3000	3021	34.8	86.9
4000	4008	44.3	90.6
5000	4975	57.7	86.3

Notes

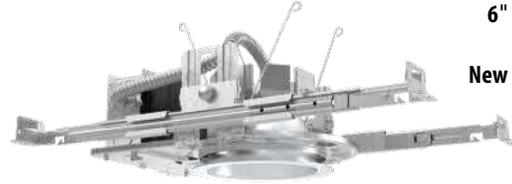
- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.



Catalog Number	C16
Notes	
Type	

LDN6 STATIC WHITE

6" Open and Wallwash LED
Non-IC
New Construction Downlight

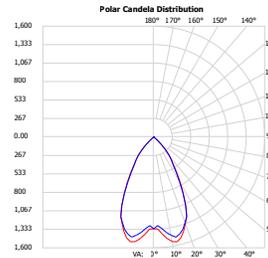


Open Trim

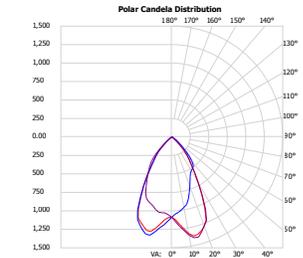


Wallwash Trim

DISTRIBUTIONS



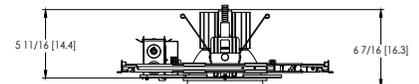
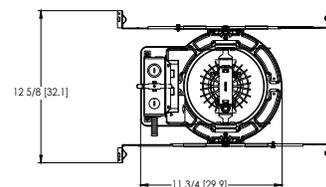
Open



Wallwash

DIMENSIONS

LDN6 500-3000 Lumens



Aperture: \varnothing 6-1/4" [15.9]
Ceiling Cutout: \varnothing 7-1/8" [18.1] Self-flanged
Overlap Trim: \varnothing 7-1/2" [19.1]

See page 4 for other fixture dimensions

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN6 35/15 L06 AR LSS MVOLT EZ10

LDN6 Series	Color temperature	Lumens ‡	Trim Style	Trim Color	Trim Finish	Flange Color ‡	Voltage
LDN6 6" round	27/ 2700K 30/ 3000K 35/ 3500K 40/ 4000K 50/ 5000K	05 500 lumens 07 750 lumens 10 1000 lumens 15 1500 lumens 20 2000 lumens 25 2500 lumens 30 3000 lumens 40 4000 lumens 50 5000 lumens	L06 Downlight LW6 Wallwash	AR Clear WR ‡ White BR ‡ Black TCPC ‡ Custom painted trim TRALTBD ‡ RAL painted trim	LSS Semi-specular LD Matte diffuse LS Specular	TRW White painted flange TRBL Black painted flange FCPC Custom painted flange only FRALTBD RAL painted flange only	MVOLT Multi-volt 120 120V 277 277V 347 ‡ 347V

Driver	Emergency ‡	Control Input ‡	Options
GZ10 0-10V driver dims to 10%	(blank) No Emergency Needed	(blank) No Control Input Needed	HAO ‡ High ambient option (40°C)
GZ1 0-10V driver dims to 1%	EL Battery pack (10W constant power), non-T20 compliant, integral test switch	JOT Wireless room control with "Just One Touch" pairing	CP ‡ Chicago Plenum
D10 Minimum dimming 10% driver for use with JOT	ELR Battery pack (10W constant power), non-T20 compliant, remote test switch	NPP16D nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	RRL___ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.
D1 Minimum dimming 1% driver for use with JOT	ELSD Self-diagnostic battery pack (10W constant power), non-T20 compliant, integral test switch	NPP16DER nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	BAA Buy America(n) Act Compliant
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1% eldoLED DALI SOLDRIVE dim to dark	ELRSD Self-diagnostic battery pack (10W constant power), non-T20 compliant, remote test switch	NPS80EZ nLight® dimming pack controls 0-10V eldoLED drivers (EZ1).	90CRI High CRI (90+)
EDAB eldoLED DALI SOLDRIVE dim to dark	E10WCP Battery pack (10W constant power), T20 compliant, integral test switch	NPS80EZER nLight® dimming pack controls 0-10V eldoLED drivers (EZ1). ER controls fixtures on emergency circuit.	SF ‡ Single fuse
	E10WCPR Battery pack (10W constant power), T20 compliant, remote test switch	N80 nLight™ Lumen Compensation	
	E10WRSTAR Emergency battery pack, 10W with remote test switch and Iota STAR technology	NLTAIR2 nLight® Air enabled	
		NLTAIRER2 nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options	
		NLTAIREM2 nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection. Available with battery pack options.	

‡ Option Value Ordering Restrictions

Option value	Restriction
Lumens	Overall height varies based on lumen package; refer to dimensional chart.
WR, BR	Not available with finishes.
347	Not available with emergency options.
SF	Must specify voltage 120V or 277V.
TRW, TRBL	Available with clear (AR) reflector only.
EL, ELR, ELSD, ELRSD, E10WCP, E10WCPR	12.5" of plenum depth or top access required for battery pack maintenance.
NPP16D, NPP16DER, NPS80EZ, NPS80EZER	Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed. See UL 924 Sequence of Operation table.
N80	Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ1 drivers.
NLTAIR, NLTAIR2, NLTAIRER2, NLTAIREM2	Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options. not recommended for metal ceiling installations.
HAO	Fixture height is 6.5" for all lumen packages with HAO.
CP	Must specify voltage for 3000lm and above. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack option.
JOT	Must specify D10 or D1 driver. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.
Reloc® Options	Refer to RRL specification sheet on acuitybrands.com for further details.
RRLAE	Commercial fixtures should disconnect the TSPL before unplugging the RRL so it does not go into discharge mode.
RRLC12S	RRLC12S option is to be used with the OnePass OCU, OCS, OD, OFC and OD for 0-24V integrated single-circuit or 0-10V low voltage controls applications. Not available with integral dimming sensors.
TRALTBD, FRALTBD	RALTBD for pricing only. Replace with applicable RAL number and finish when ready to order. See the RAL BROCHURE for available color options.
TCPC, FCPC	CPC options for pricing only. Custom color chip needs to be sent in to your Customer Resolution specialist before order can be processed. Click HERE for more details
E10WRSTAR	Not available with wet location, EC1, EC6, QDS, CP, 347V, NPS80EZ ER, NLTAIRER2, NLTAIREM2, AL03 & AL04 w/DALI, OR 2000-4500 lumens w/JOT. Top access installation or 17.5" plenum clearance required for roomside installation. Not available with integral test switch

Accessories: Order as separate catalog number.

EAC ISSM 375	Compact interruptible emergency AC power system	SCA6 Sloped Ceiling Adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D
EAC ISSM 125	Compact interruptible emergency AC power system	
GRA68 JZ	Oversized trim ring with 8" outside diameter	



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details

(Maximum order quantity for design select lead times is 112.)

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A+	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A+	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic
ILBHI CP10 HE SD A+	10W	90	1200	347-480V AC Input, Title 20, Self Diagnostic
ILBHI CP15 HE SD A+	15W	90	1800	347-480V AC Input, Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

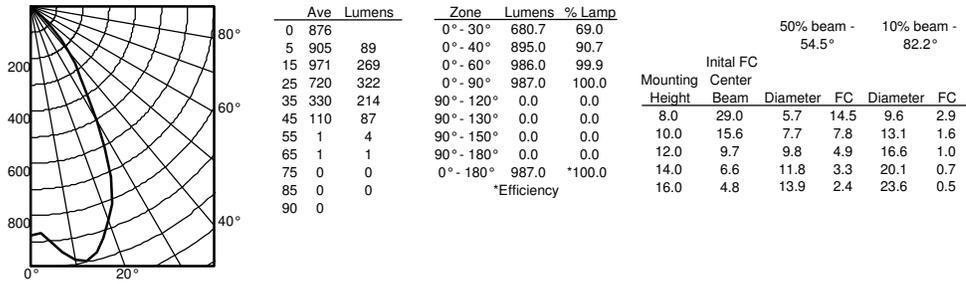
The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

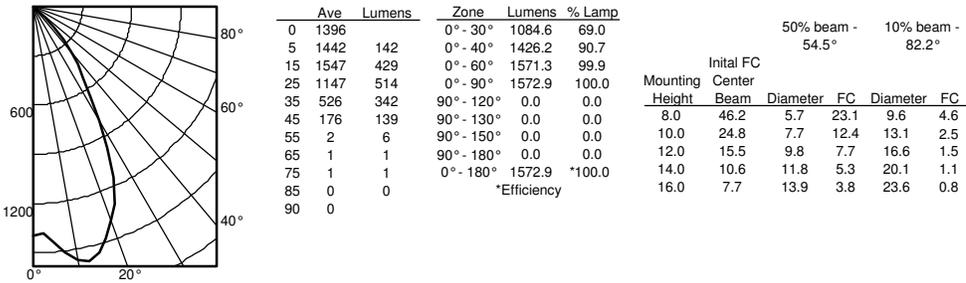
PHOTOMETRY

Distribution Curve Distribution Data Output Data Illuminance Data at 30" Above Floor for a Single Luminaire

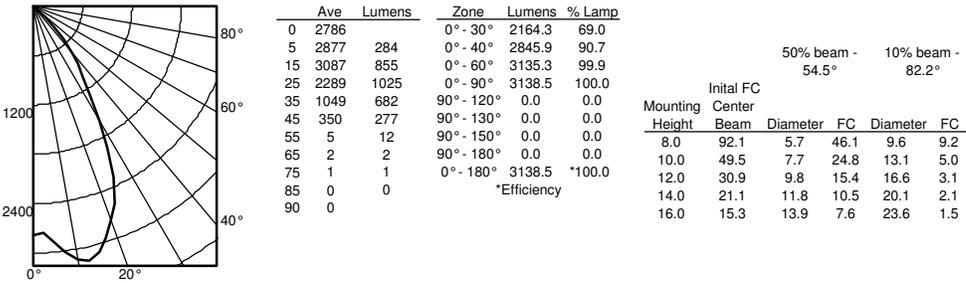
LDN6 35/10 L06AR, input watts: 10.44, delivered lumens: 987.10, LM/W = 94.54, spacing criterion at 0= 1.02, test no. ISF 30716P262.



LDN6 35/15 L06AR, input watts: 17.52, delivered lumens: 1572.9, LM/W = 89.77, spacing criterion at 0= 1.02, test no. ISF 30716P265.



LDN6 35/30 L06AR, input watts: 34.75, delivered lumens: 3138.5, LM/W = 90.31, spacing criterion at 0= 1.02, test no. ISF 30716P274.



HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at Designlight Consortium.

Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

LUMEN OUTPUT MULTIPLIERS - FINISH			
	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

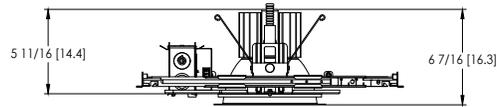
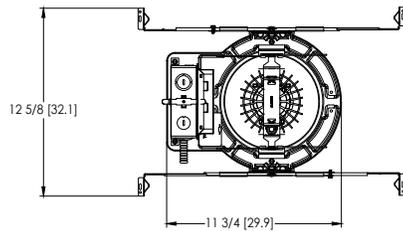
LUMEN OUTPUT MULTIPLIERS - CRI	
80	1.0
90	0.874

LUMEN OUTPUT MULTIPLIERS - CCT					
	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

LDN6

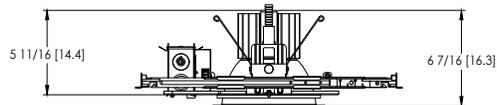
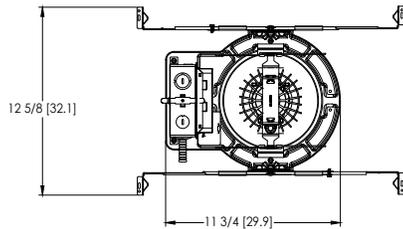
* All dimensions are inches (centimeters) unless otherwise noted.

LDN6 500-3000 Lumens



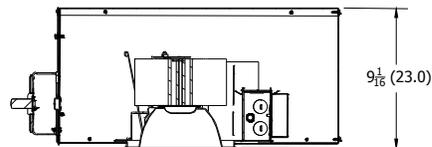
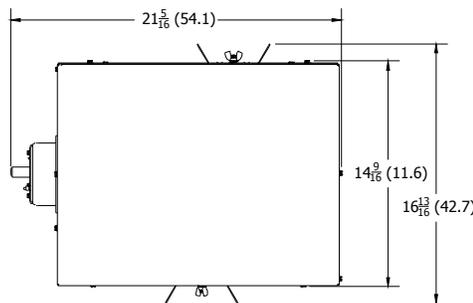
Aperture: \varnothing 6-1/4" [15.9]
 Ceiling Cutout: \varnothing 7-1/8" [18.1] Self-flanged
 Overlap Trim: \varnothing 7-1/2" [19.1]

LDN6 4000-5000 Lumens



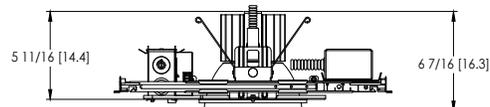
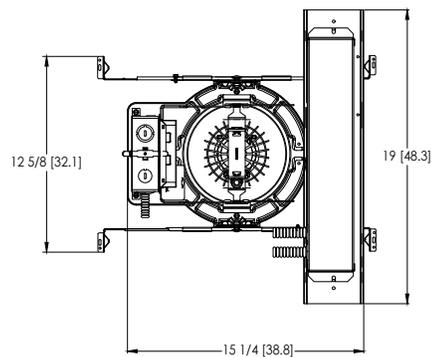
Marked Spacing: 24" x 24" x 10"
 Aperture: \varnothing 6-1/4" [15.9]
 Ceiling Cutout: \varnothing 7-1/8" [18.1] Self-flanged
 Overlap Trim: \varnothing 7-1/2" [19.1]

LDN6 CP



Aperture: 6-1/4 (15.9)
 Ceiling Opening: 7-1/8 (18.1)
 Overlap Trim: 7-1/2 (19.1)

LDN6 EL



Marked Spacing above 3000lm: 24" x 24" x 10"
 Aperture: \varnothing 6-1/4" [15.9]
 Ceiling Cutout: \varnothing 7-1/8" [18.1] Self-flanged
 Overlap Trim: \varnothing 7-1/2" [19.1]

ADDITIONAL DATA



The Sensor Switch JOT enabled solution offers a wireless, app-free approach to single room lighting control. JOT enabled products use Bluetooth® Low Energy (BLE) technology to enable wireless dimming and switching.

Diagram



LDN6 Series



Sensor Switch
WSXA JOT

1. **Power:** Install JOT enabled fixtures and controls as instructed.
2. **Pair:** Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.
3. **Play:** Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.

COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DVTV	
	Diva® DVSCTV	
	Nova T® NTFTV	
	Nova® NFTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis OA2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALI.net Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	

EXAMPLE

Group Fixture Control*

*Application diagram applies for fixtures with eldoLED drivers only.

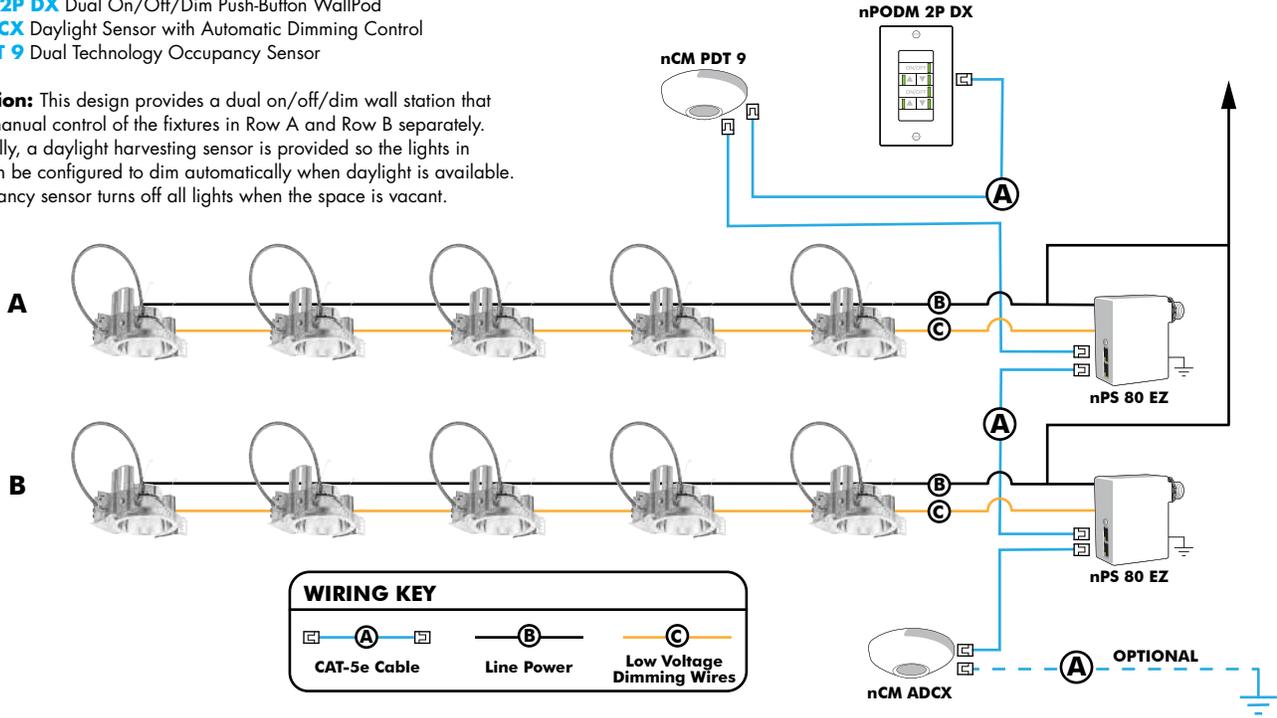
nPS 80 EZ Dimming/Control Pack (qty: 2 required)

nPODM 2P DX Dual On/Off/Dim Push-Button WallPod

nCM ADCX Daylight Sensor with Automatic Dimming Control

nCM PDT 9 Dual Technology Occupancy Sensor

Description: This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in Row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.



Choose Wall Controls

nLight offers multiple styles of wall controls - each with varying features and user experience.



Push-Button Wallpod
Traditional tactile buttons and LED user feedback



Graphic Wallpod
Full color touch screen provides a sophisticated look and feel

nLight® Wired Controls Accessories:

Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight for complete listing of nLight controls.

WallPod Stations	Model number	Occupancy sensors	Model Number
On/Off	nPODM (Color)	Small motion 360°, ceiling (PIR/dual Tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPOD DX (Color)	Large motion 360°, ceiling (PIR/dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX (Color)	Wide View (PIR/dual tech)	nWV 16 / nWV PDT 16
Photocell controls	Model Number	Wall Switch w/ Raise/Lower (PIR/dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	Cat-5 cables (plenum rated)	Model Number
		10', CAT5 10FT	CAT5 10FT J1
		15, CAT5 15FT	CAT5 15FT J1

nLight® AIR Control Accessories:

Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

Wall switches	Model number
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH ¹

Notes

- 1 Can only be ordered with the RES7Z zone control sensor version.

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

nLight AIR

nLight AIR is the ideal solution for retrofit or new construction spaces where adding communication is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each Lithonia LDN Luminaire. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.



Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome





Strand Associates, Inc.®
910 West Wingra Drive
Madison, WI 53715
(P) 608.251.4843
www.strand.com

May 3, 2023

Mr. Bryce Hembrook
Town of Brookfield
645 North Janacek Road
Brookfield, WI 53045

Re: Quest Interiors Development
21055 Crossroads Circle
Town of Brookfield, Wisconsin (Town)

Dear Bryce,

Strand Associates, Inc.® (Strand) has finished its initial review of the construction drawings and Storm Water & Erosion Control Calculations for the Quest Interiors Development that were received from the Town on April 25, 2023, for conformance with the Town specifications and general engineering practices. Before construction may begin, the contractor shall submit all required permits for the development to the state, Wisconsin Department of Natural Resources (WDNR), Town, and any other relevant agencies. New drawings, stormwater management plan and calculations, and a letter describing the revisions should be returned to Strand after the following concerns have been addressed.

Stormwater Management Plan

1. The time of concentration calculation for the pre-development basin has a sheet flow length of 178 feet. Standard engineering protocol is to use a maximum sheet flow length of 100 feet.
2. The time of concentration values appear to be directly entered into the HydroCAD model for the proposed 1A (2S) and 1B (3S) drainage areas. These time of concentration calculations should be provided. Also, the time of concentration paths should be shown on the Post-Development Basin Area exhibit in Appendix B.
3. Within the WinSLAMM input information in Appendix F, the total area draining to the pond (2S) is listed as 2.147 acres. The HydroCAD model notes that the drainage area into the proposed pond is 2.54 acres. Clarification should be given and/or modeling updated accordingly.
4. A stormwater maintenance agreement should be established between the owner and Town.

Stormwater Conveyance

Storm sewer sizing and inlet capacity calculations should be provided for the proposed storm sewers.

Civil Existing Site and Demolition Plan—Sheet C1.0

Specifications or a detail should be provided describing or showing how the storm sewer pipe will be plugged.

Mr. Bryce Hembrook
Town of Brookfield
Page 2
May 3, 2023

Civil Site Plan–Sheet C1.1

1. According to 17.06(3)(c)(4) in the Town ordinance, the minimum dimensions for all parking spaces provided for use by physically disabled shall be 12 feet by 18 feet. It appears that these stalls are 9 feet by 18 feet.
2. There is a callout for a Keynote 27 in the plan, but there is no description for “27” in the Keynote legend.
3. A turning movement exhibit should be provided to verify the largest vehicle (including any emergency vehicles) that will access the site can perform the required turning movements with the proposed layout.

Civil Grading and Erosion Control Plan–Sheet C1.2

1. The anticipated locations of the topsoil stockpiles should be shown on the plan.
2. Silt fence should be provided between the two driveway entrances just upstream of the curb line to prevent sediment from washing on to Crossroads Circle.
3. Safety railings should be provided where the top of wall elevation is more than 30 inches above the adjacent grade according to Section 1013.1 of the Unified Building Code. The top of the retaining wall on the west side of the loading dock ramp. There is a drop of approximately 4 feet from top of the retaining wall on the west side of the loading dock ramp to the bottom of ramp near the building.
4. The scale bar appears to be incorrect.

Civil Utility Plan–Sheet C1.3

1. The callout for the rim elevation of CB-1 (901.12) does not match the callout for the rim elevation shown in the Bay Loading Dock Detail (900.90).
2. Evaluate that proper separation between water, storm, and sanitary sewer mains are meeting the requirements of Section NR 811.74 of the Wisconsin Administrative Code (WAC).
3. The storm sewer structure and casting types should be called out on the plan.
4. Review that all water main design meets the requirements of Section NR 811.70 of WAC and Section 12 of the Town Sanitary District No. 4 technical specifications (see Sections 12.1–Water Main Material, 12.2–Valve Type, 12.3–Pipe Cover and length requirements, 12.5–Thrust Restraint, and 12.18–Fire Hydrant Type). Supporting documentation should be provided.
5. It should be noted that, before water utility construction can begin, a modification to the water service application will need to be submitted to the Town and, if plumbing fixtures are being added, calculations should be provided for proper meter sizing.
6. A note should be added stating that the contractor shall notify the Town Sanitary District No. 4 and field staff a minimum of 72 hours before the start of any construction or connection to existing public utilities.

Mr. Bryce Hembrook
 Town of Brookfield
 Page 3
 May 3, 2023

7. The existing sanitary sewer is not shown correctly on the west side of the property where the proposed sanitary service connection to the main is taking place. The sewer main is entering the manhole from the west and then heads south. There is no sewer line running north of this manhole (see enclosed markup). This will require a modification of the proposed sewer service connection to the main.
8. A 6-inch water valve should be added to the proposed water service (see enclosed markup).
9. The proposed water main tapping location is near an existing water service connection. A note should be added stating the required distance from the existing connection.
10. The scale bar appears to be incorrect.

Civil Landscape and Restoration Plan–Sheet C1.4

1. Please denote intended tree protection or woodland area protection provided on-site.
2. Landscaping Planting Schedule Comments
 - a. According to plant symbols and the plant data chart, selected species appear appropriate. A full comparison of plan quantities as laid-out versus in the planting table was not completed. It may be appropriate for plant callout leaders for use in the field or for final reviews. Planting densities, arrangement, and selection appear appropriate. See notes.
 - b. Varieties of flowering pear (*Pyrus calleryana*) are regarded as potentially invasive. If acceptable, please explore potential replacements such as suitable varieties of flowering crabapple (*Malus* species) or redbud (*Cercis canadensis*).
 - c. Deciduous shrub “Planted Size” below 18 inches does not meet code. Please remove 15-inch reference for deciduous shrubs.
 - d. Similarly, arborvitae “Planted Size” should be corrected to the 6-foot requirement, in accordance with code.
 - e. Please revise Botanical Name (genus) for Karl Forester Reed Grass as “*Calamogrostis*.”
3. Long-term light pole interference–The seeded lawn area between the parking lot and Crossroads Circle (and some other project areas) contain light poles with large deciduous tree plantings (basswood and honeylocust) within 10 to 12 feet of the poles. Please evaluate spacing arrangements or evaluate the use of smaller trees as needed.
4. Because of proximities within 12 feet of the Crossroads Circle road surface, please review planting beds that are present north and south of site access drives to confirm that they are appropriately resistant or distant to potential salt spray and other effects of the roadway and associated ditch.
5. To potentially avoid installation “settling” of plantings, burial of root collars, and potential survivability issues; please consider additions to the Tree Planting and Shrub Planting Details. This may involve altering the figure or potentially calling out plants to be “set” in the planting hole on a rigid substrate and similarly denoting the location of the root collar relative to planting and mulch placement.
6. The scale bar appears to be incorrect.

Mr. Bryce Hembrook
Town of Brookfield
Page 4
May 3, 2023

Civil Details–Sheet C2.1

1. The Wet Retention Pond Detail should include the 2.5-foot rise dimension for the sharp-crested vee weir that is modeled in HydroCAD.
2. The Wet Retention Pond detail notes a 2-foot sump in the callout for the pyramid trash rack on top of the outlet structure which does not match the callout for a 4-foot sump dimension noted on the bottom of the structure. Detail should be updated accordingly.
3. The Wet Retention Pond Detail contains callouts for the “2 Year Storm Elev.”. This elevation should be provided on the detail so the contractor knows the exact elevation to install the erosion control fence and pond clay liner.

Site Lighting Plan

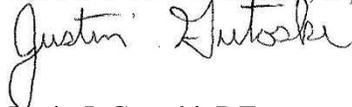
The light level at the property line shall not exceed 0.2 foot-candles at any point. Revise light pole locations or add shielding to reduce light levels at the southern property line to 0.2 foot-candles or lower.

Comments will be provided during future submittals.

Please call 608-251-4843 if you have any questions.

Sincerely,

STRAND ASSOCIATES, INC.®



Justin J. Gutoski, P.E.

- c: Tom Hagie, P.E. Town Administrator, Town of Brookfield
Tony Skof, Sanitary District No. 4 Superintendent, Town of Brookfield
Scott Hartung, Department of Public Works Superintendent, Town of Brookfield

SPECIFICATION NOTE:
SEE SHEET CO.1 FOR PLAN SPECIFICATIONS AND REQUIREMENTS

DOWNSPOUT NOTE:
DS = DENOTES DOWNSPOUT TO GRADE LOCATIONS. PROVIDE SPLASH BLOCKS AT ALL DS TO GRADE LOCATIONS. SEE ARCH PLANS FOR FINAL LOCATIONS.

DOWNSPOUT NOTE:
DS = DENOTES DOWNSPOUT CONNECT TO CLEANOUT AT GRADE FOR STORM SEWER LEAD. SEE ARCH PLANS FOR FINAL LOCATIONS.

CLEANOUT NOTE:
CO = DENOTES LOCATIONS WHERE CONTRACTOR SHALL INSTALL CLEANOUTS, SEE CO.1 FOR SPECIFICATION.



PROJECT INFORMATION

PROPOSED OFFICES, SHOWROOM, AND WAREHOUSE FOR:
KTFM, LLC
21055 CROSSROADS CIRCLE • TOWN OF BROOKFIELD, WI 53186

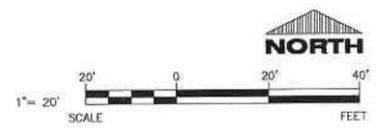
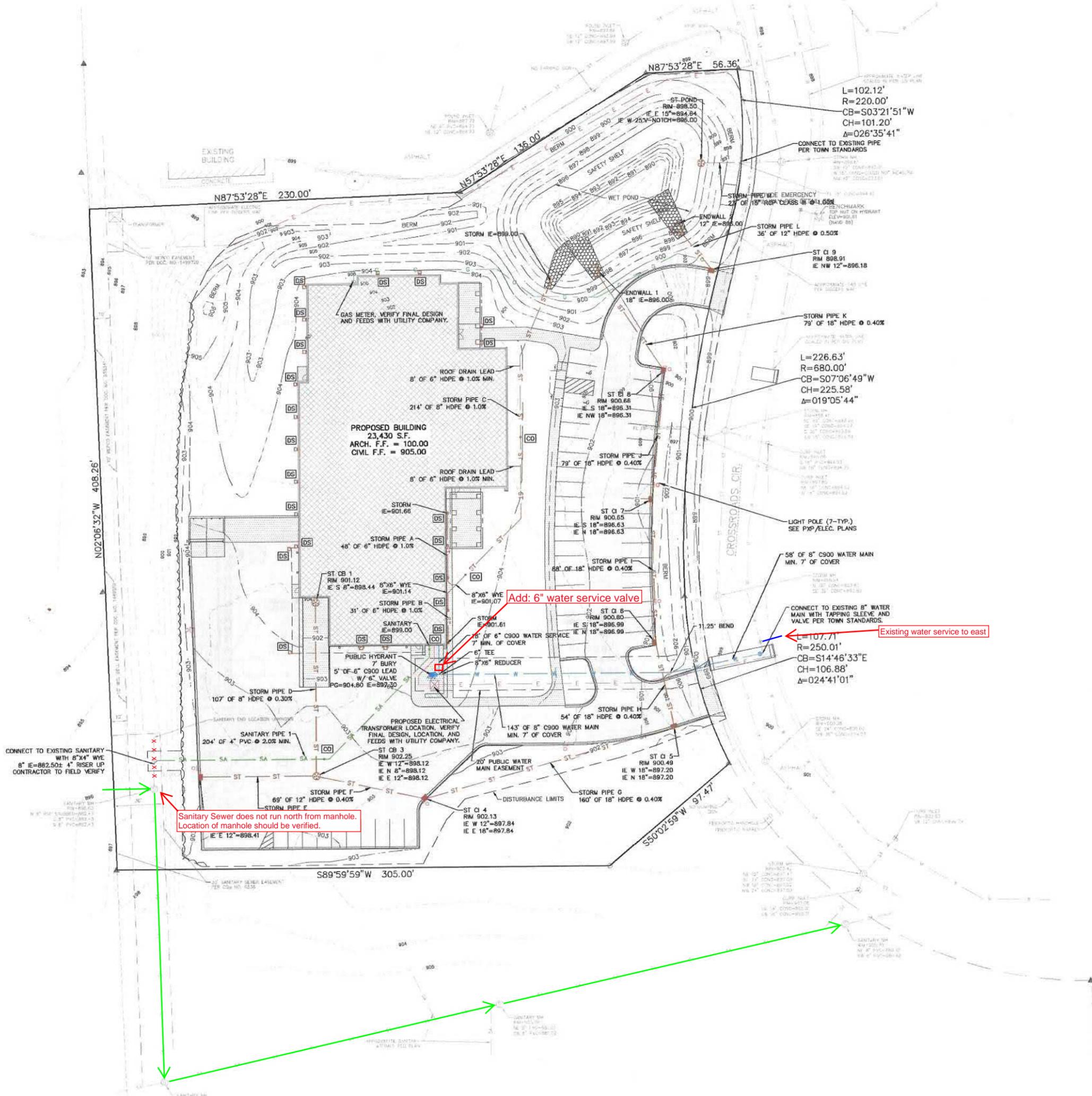
PROFESSIONAL SEAL

PRELIMINARY DATES
APR. 19, 2023

NOT FOR CONSTRUCTION

JOB NUMBER
230030600

SHEET NUMBER
C1.3



CIVIL UTILITY PLAN

ORDINANCE AMENDING, OR REPEALING AND RECREATING, CERTAIN PROVISIONS IN CHAPTER 17 OF THE MUNICIPAL CODE OF THE TOWN OF BROOKFIELD

NOW THEREFORE, the Town Board of the Town of Brookfield, Wisconsin does ordain as follows:

SECTION 1: The following provision of Section 17.01 of the Town Code is hereby stricken and removed from the Town Code:

DAY-CARE CENTER

An establishment providing care and supervision for four or more persons under the age of seven, licensed by the state under § 48.65, Wis. Stats.

SECTION 2: The following provision of Section 17.01 of the Town Code is hereby repealed and recreated to read as follows:

FAMILY CHILD CARE HOME

A dwelling licensed as a child care center by the state under §§ 48.65 and 66.1017, Wis. Stats., where care is provided for not more than eight children.

SECTION 3: Section 17.01 of the Town Code shall be amended to include the following provision:

COMMERCIAL DAYCARE CENTER

A child care center licensed by the state under § 48.65, Wis. Stats., where care and supervision is provided for four or more children under the age of seven for less than 24 hours a day, or an adult day care center licensed by the state under § 49.45(47), Wis. Stats., that provides services for part of a day in a group setting to adults who need an enriched health-supportive or social experience and who may need assistance with activities of daily living, supervision or protection. A family child care home is not a commercial daycare center.

SECTION 4: The following provision of Section 17.01 of the Town Code is hereby repealed and recreated to read as follows:

COMMUNITY LIVING ARRANGEMENT

The following facilities licensed and operated or permitted under the authority of the Wisconsin Statutes: child welfare agencies under § 48.60, group foster homes for children under § 48.02(7), and, adult family homes and community-based residential facilities under § 50.033; but does not include commercial daycare centers, nursing homes, general hospitals, special hospitals, prisons or jails. The establishment of community living arrangements is governed by §§ 46.03(22), 59.69(15), 60.23, and 62.63(7)(i), Wis. Stats.

SECTION 5: “Family day care homes” in Sections 17.04(4)(a)4., 17.04(5)(a)4., 17.04(6)(a)4., 17.04(7)(a)4., 17.04(8)(a)4., 17.04(9)(a)4., 17.04(10)(a)4. of the Town Code shall be stricken and replaced with “Family child care homes”.

SECTION 6: “Commercial day-care centers” in Section 17.04(12)(a) of the Town Code shall be stricken and removed from the Town Code.

SECTION 7: Section 17.06(3)(h)6.h.iii. of the Town Code is hereby repealed and recreated to read as follows:

Children's nursery schools and commercial daycare centers: one space per employee for the work shift with the greatest number of employees, plus one space per six students at the highest class attendance period.

SECTION 8: Section 17.02(14)(b)4.i. of the Town Code is hereby repealed and recreated to read as follows: “Commercial daycare centers in B-2 Limited General Business District and B-3 Office and Professional Districts.”.

SECTION 9: Except as expressly provided by this Ordinance, all other provisions contained in the Town Code shall remain in full force and effect.

SECTION 10: All ordinances or parts of this Ordinance conflicting or contravening the provisions of this Ordinance are hereby repealed.

SECTION 11: This Ordinance shall take effect upon passage and posting or publication as provided by law.

PASSED AND ADOPTED by the Town Board of the Town of Brookfield, Waukesha County, Wisconsin this _____, day of _____, 2023.

By: _____
Keith Henderson, Chairman

By: _____
Steve Kohlmann, Supervisor

By: _____
John Charlier, Supervisor

By: _____
John R. Schatzman, Supervisor

By: _____
Ryan Stanelle, Supervisor

Attest: _____
Tom Hagie,
Administrator and Interim Clerk

**ORDINANCE CREATING SECTION 12.08 OF THE MUNICIPAL CODE OF THE
TOWN OF BROOKFIELD**

NOW THEREFORE, the Town Board of the Town of Brookfield, Wisconsin does ordain
as follows:

SECTION 1: Section 12.08 of the Town Code is hereby created to read as follows:

- (1) Definitions. The terms used in this section shall be defined as follows:

FOOD

All articles used for food, non-alcoholic drinks, or condiments including ice or water used for human consumption whether simple, mixed, or compound articles used or intended for use as ingredients in the composition or preparation thereof.

MOBILE FOOD ESTABLISHMENT

A restaurant or retail food establishment where ready-to eat food is cooked, wrapped, packaged, processed, served, or sold from a vehicle, car, truck, trailer, cart, or similar portable device which may or could be capable of periodically changing locations. Mobile food establishment does not include the home delivery of food and beverage items.

MOBILE VENDOR

The owner, including any corporate or individual owner, owner's agent, or owner's employees of a mobile food establishment.

- (2) Permit Required. It shall be unlawful for a person to operate as a mobile vendor and serve, sell, or distribute food from a mobile food establishment or cook, wrap, package, process, serve, or portion food in a mobile food establishment in the Town of Brookfield without first obtaining a mobile food establishment permit from the Building Inspector in accordance with this section.

- (3) Application. Any person desiring to operate a mobile food establishment shall file a written application for a mobile food establishment permit with the Building Inspector. The application shall be on the form provided by the Building Inspector and include all of the following:
- (a) The name, signature, and address of each applicant and each member or officer of a corporate applicant.
 - (b) A description of the mobile food establishment vehicle, including the make, model, vehicle identification number, and license plate.
 - (c) A valid copy of all necessary licenses, permits, or inspection compliance forms for the operation of the mobile food establishment, including but not limited to, licenses or certificates required by the Town of Brookfield Fire Department, Waukesha County Health Department, the State of Wisconsin, or any other governmental entity.
 - (d) A signed statement that the applicant shall hold harmless and indemnify the Town of Brookfield, its officers, and employees from any claims for damage to property or injury to persons that arise out of or relate to the activities authorized by the mobile food establishment permit.
 - (e) Certificate of insurance demonstrating that the applicant has and will maintain public liability insurance coverage of not less than \$1,000,000.00 covering the mobile food establishment.
 - (f) The proposed location of the mobile food establishment and any additional information deemed necessary by the Building Inspector.
- (4) Location Restrictions. Except as provided herein, all mobile food establishments and mobile vendors shall:
- (a) Not serve food upon or within the public road right-of-way or public alleys, including any State Trunk Highway, U.S. Highway, or County Trunk Highway, unless such highway is legally closed for an event;
 - (b) Comply with all state and municipal traffic and parking laws;
 - (c) Ensure the free use of a sidewalk for pedestrian traffic or indicate the mobile food establishment has exclusive rights to a certain location; and
 - (d) Obtain the written consent of the private property owner if the mobile food establishment is operating on private, non-residential property.

(5) General Operation Restrictions.

- (a) Mobile food establishments may only operate between the hours of 8:00 a.m. and 11:00 p.m.
- (b) A mobile food establishment shall not draw from any public utilities. No power cable or equipment shall be extended over any Town right-of-way or sidewalk.
- (c) No mobile vendor or mobile food establishment shall use or maintain any outside sound amplifying equipment, or noisemakers of any kind, while stationary.
- (d) Mobile vendors shall provide ample trash or refuse receptacles for its mobile food establishment and remove such receptacles immediately after ceasing operation of the mobile food establishment. Trash or refuse from the mobile food establishment's receptacles shall not be placed in any public or private trash receptacles, including dumpsters, without the private trash receptacle's owner's consent.
- (e) Mobile vendors shall take all necessary action to ensure that the operation of the Mobile food establishment does not materially affect the peace and welfare of the general public or cause any unreasonably loud, disturbing, or unnecessary noise, or any other noise of any character, intensity, or duration as to be detrimental or disturbing to the public peace or welfare.
- (f) The mobile food establishment permit shall be displayed on the mobile food establishment during all hours of operation.

(6) Fees and Conditions.

- (a) All applicants for a new mobile food establishment permit and any applicants applying for a renewal of a mobile food establishment permit shall pay an annual permit fee as established by the Town's Fee Schedule.
- (b) Upon issuance, all permits are deemed to have commenced on April 1 and expire on March 31 of the following calendar year. Permit fees shall not be prorated.
- (c) The mobile food establishment permit is not transferrable from person to person.
- (d) The mobile food establishment permit is only valid for one the mobile food establishment vehicle. Each mobile vendor or mobile food establishment shall obtain a separate permit.
- (e) All mobile vendors and any mobile food establishments shall comply with the National Fire Protection Association Fire Code and Wisconsin Administrative Code SPS 314.50.

- (f) All mobile vendors and mobile food establishments shall be inspected by the Town of Brookfield Fire Department prior to obtaining a permit.
- (7) **Renewal.** In order to renew a mobile food establishment permit, a permit holder shall file a renewal application on the form provided by the Building Inspector and pay the renewal fee set forth on the Town's Fee Schedule. The permit holder shall file a renewal application prior to the expiration of the mobile food establishment permit.
- (8) **Suspension, Revocation, or Non-Renewal.** A mobile food establishment permit may be suspended, revoked, or not renewed Building Inspector if the applicant or permit holder makes any material omission or materially inaccurate statement in the permit application, violates any provision of this section, or was convicted of any offense which is directly related to the permit holder's fitness to operate a mobile food establishment. Notice of suspension, revocation, or nonrenewal shall be sent by regular mail to or personally served upon, the permit holder at least 10 days prior to hearing before a final determination is made by the Town Board.

SECTION 2: All ordinances or parts of this ordinance conflicting or contravening the provisions of this ordinance are hereby repealed.

SECTION 3: This ordinance shall take effect upon passage and posting or publication as provided by law.

PASSED AND ADOPTED by the Town Board of the Town of Brookfield, Waukesha County, Wisconsin this ____, day of _____, 2023.

By: _____
Keith Henderson, Chairman

By: _____
Steve Kohlmann, Supervisor

By: _____
John Charlier, Supervisor

By: _____
John R. Schatzman, Supervisor

By: _____
Ryan Stanelle, Supervisor

Attest: _____
Tom Hagie,
Administrator and Interim Clerk

Ord. No.: _____

**ORDINANCE CREATING SECTION 17.02(14)(B)1.K. OF THE MUNICIPAL CODE OF
THE TOWN OF BROOKFIELD**

NOW THEREFORE, the Town Board of the Town of Brookfield, Wisconsin does ordain
as follows:

SECTION 1: Section 17.02(14)(b)1.k. of the Town Code is hereby created to read as
follows:

Effect of denial. If an application for a conditional use permit is denied, a new
application for the same conditional use or an application for a similar use will not
be considered by the Town Board for a period of 12 months from the date of denial,
except on grounds of new evidence, as determined by the Zoning Administrator.

SECTION 2: All other provisions of the Town Code shall remain in full force and effect.

SECTION 3: All ordinances or parts of this ordinance conflicting or contravening the
provisions of this ordinance are hereby repealed.

SECTION 4: This ordinance shall take effect upon passage and posting or publication as
provided by law.

PASSED AND ADOPTED by the Town Board of the Town of Brookfield, Waukesha County, Wisconsin this _____, day of _____, 2023.

BY: _____
KEITH HENDERSON, Chairman

BY: _____
STEVE KOHLMANN, Supervisor

BY: _____
JOHN CHARLIER, Supervisor

BY: _____
JOHN R. SCHATZMAN, Supervisor

BY: _____
RYAN STANELLE, Supervisor

ATTEST: _____
Tom Hagie, Administrator and
Interim Clerk

11. Fences. Fences are a permitted accessory use in any district and may be erected with~~out~~ a permit, provided that fences shall comply with the following requirements:

a. Residential fences shall be constructed in such a manner that the "finished" side shall face the neighboring property. Fence posts shall be on the side of the fence facing the subject property.

i. Open residential fences are permitted up to the lot line in the side and rear yards of residential districts, but shall not exceed a height of four feet, and shall not extend into the street yard.

ii. Solid residential fences, ~~as defined in § 17.01(9)(b) of this chapter, shall meet the offset requirements of the district~~ are permitted up to the lot line in the side and rear yard of residential districts, ~~Fences~~ but shall not exceed six feet in height, ~~and shall be placed in the rear yard only.~~

iii. Any fence proposed to be located within 5 feet of a property line will require a copy of a property survey prior to permit approval.

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[Amended at time of adoption of Code (see Ch. 25, General Provisions, Art. II)]

b. Ornamental fences, as defined in § 17.01(9)(b) of this chapter, are permitted in the street yard in any district, but shall not be erected in a street right-of-way and shall not exceed a fence height of three feet. Ornamental fences shall comply with the traffic visibility requirements set forth in § 17.06 of this chapter.

c. Security fences or screening fences are permitted up to the property lines in all districts except residential districts, but shall not exceed 10 feet in total height and shall be "open fences" as defined in § 17.01(9)(b) of this chapter when located in the street yard. Security fences may include up to four strands of barbed wire on the top of the fence, provided that the barbed wire is at least eight feet above grade with the vertical supports for the barbed wire slanting inward away from the property line. Security and screening fences shall comply with the traffic visibility requirements set forth in § 17.06 of this chapter. Security fences shall be constructed in such a manner that the "finished" side shall face the neighboring property. Fence posts shall be on the side of the fence facing the permit applicant's property.

d. Solid, privacy fences, as described in § 17.01(9)(b) of this chapter, not exceeding six feet in height, may be placed in a street yard of double frontage or corner lots subject to approval by the Building Inspector ~~or Architectural Review Committee~~. Approval shall be based upon a neighborhood continuity standard. Such fencing may be placed at a minimum five-foot setback to a street right-of-way, providing the side facing the street is attractively landscaped.

e. The following are prohibited materials, unless exempt elsewhere in this Section: Barbed wire, razor wire, corrugated metal, chicken wire, t/u post, ~~fences and~~ electric fences are prohibited in the Town of Brookfield.

f. Exemptions from permit and permit standards.

i. Temporary fencing including the protection of excavation and construction sites and the protection of individuals plants.

ii. Decorative fencing, fences encompassing a garden, and other similar fences including pet kennels are exempt from a required permit provided they are not located in the front yard, are setback a minimum of 5 feet from all property lines, and do not exceed 6 feet in height.

f. Any and all fences or decorative posts shall be maintained in a structurally sound and attractive manner.

h. Any utility equipment located within a fence shall be safe and accessible. If the metering location becomes unsafe or inaccessible, the owner shall be required to remove the fence or have the utility equipment moved at the owner's expense.

if. Fence permits may be approved administratively by the building inspector and/or zoning administrator. Any proposed fence which would not conform with the above provisions shall be considered a conditional use as described in § 17.02(14) of this chapter.

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