



Office of the Town Clerk

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

Office: 262-796-3788 | Clerk@TownofBrookfield.com

MEETING AGENDA

Tuesday, March 4, 2025
7:00 p.m.

Town Board
Utility District No. 1
Sanitary District No. 4

Eric Gnant Room
TOB Municipal Building
645 N. Janacek Rd., Brookfield, WI

1. Call to Order & Roll Call.
2. Meeting Notices.
3. Approval of Agenda.
4. Approval of Minutes:
 - February 19, 2025 meeting of the TB, UD1, SD4.
 - November 19, 2024 meeting of the TB, UD1, SD4. Amend.
5. Citizen Comments: Three-minute limit.
6. Old Business:
 - a. Discussion and possible action regarding Strand Associates, Inc. Task Order No. 25-01: Davidson Road Reconstruction for survey, design, and bidding-related services.
 - b. Discussion and possible action regarding inter-municipal agreement with the City of Brookfield and Waukesha for the reconstruction of Davidson Road.
7. New Business.
 - a. Discussion and possible action regarding the site plan amendment for Discount Tire, located at 20120 West Bluemound Road.
 - b. Discussion and possible action regarding adjustment to the Municipal Court Judge compensation.
8. Departments, Boards, Committee/Commission Reports/Recommendations.
 - a. Plan Commission.
 1. Discussion and possible action regarding the site plan amendment for Silgan Containers, located at 21027 Crossroads Circle.
 - b. Fire Department
 1. Chief Schilling presentation of the 2024 Fire Department Annual Report.
9. Approval of Vouchers and Checks.
10. Communication and Announcements.
11. Adjourn.

Posted February 28, 2025

Tom Hagie, Administrator/Interim-Clerk



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MEETING MINUTES

Wednesday, February 19, 2025
7:00 p.m.

Town Board
Utility District No. 1
Sanitary District No. 4

Eric Gnant Room
TOB Municipal Building
645 N. Janacek Rd., Brookfield, WI

1. Call to Order & Roll Call.
Chairman Henderson called the meeting to order at 7:00 p.m.
Present: Chairman Keith Henderson; Supervisors Steve Kohlmann, John Schatzman and Ryan Stanelle. John Charlier was absent and excused. A quorum was met (4-1).
Staff Present: Attorney Michael Van Kleunen and Deputy Clerk Emily Howells.
2. Meeting Notices.
Howells confirmed the meeting notices were posted as required by law.
3. Approval of Agenda.
Motion by Schatzman to adopt the agenda; seconded by Stanelle.
Motion prevailed by a voice vote (4-0).
4. Approval of Minutes:
February 4, 2025 meeting of the TB, UD1, SD4.
Motion by Stanelle to approve the February 4, 2025 TB, UD1, SD4 meeting minutes as presented; seconded by Kohlmann.
Motion prevailed by a voice vote (4-0).
5. Citizen Comments: Three-minute limit. None.
6. Old Business: None.
7. New Business:
 - a. Discussion and possible action regarding Strand Associates, Inc. Task Order No. 25-01: Davidson Road Reconstruction for survey, design, and bidding-related services.
Motion by Kohlmann to table the item until members from Strand Associates, Inc can be in attendance; seconded by Schatzman.
8. Departments, Boards, Committee/Commission Reports/Recommendations.
 - a. Clerk's Office: February Primary Election results summary.
Howells provided a report of the total voter turnout and participation.
9. Approval of Vouchers and Checks.
Motion by Stanelle to approve vouchers and checks in the amount of \$264,830.90; seconded by Kohlmann.
Motion prevailed by a voice vote (4-0).
10. Communication and Announcements.
Kohlmann: Thank you to Chairman Henderson and Deputy Howells for elections at Elmbrook.
11. Adjourn.
Motion by Kohlmann to adjourn at 7:26 p.m.; seconded by Stanelle.
Motion prevailed by a voice vote (4-0).

Respectfully submitted by,
Tom Hagie, Administrator/Interim-Clerk



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Office: 262-796-3788 | Clerk@TownofBrookfield.com

MEETING MINUTES – AMMENDED February 2025

Wednesday, November 19, 2024 7:48 p.m.	Town Board Utility District No. 1 Sanitary District No. 4	Eric Gnant Room TOB Municipal Building 645 N. Janacek Rd., Brookfield, WI
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1. Call to Order.
Chairman Henderson called the meeting to order at 7:48 p.m.
Present: Chairman Keith Henderson; Supervisors John Charlier, Steve Kohlmann, John Schatzman, and Ryan Stanelle.
A quorum was met (5-0).
Staff Present: Attorney Michael Van Kleunen, Administrator/Interim Clerk Tom Hagie, Deputy Clerk Emily Howells, Fire Chief John Schilling, Assistant Fire Chief Anthony D'Amico, Department of Public Works Superintendent Scott Hartung, Parks and Recreation Director Chad Brown, Municipal Court Clerk Kathy Stokke, Sanitary District No. 4 Superintendent Tony Skof and Police Lieutenant David Mironischen.
2. Meeting Notices.
Hagie confirmed the meeting notices were posted as required by law.
3. Approval of Agenda.
Motion by Schatzman to adopt the agenda; seconded by Stanelle.
Motion prevailed by a voice vote (5-0).
4. Approval of Minutes:
Motion by Kohlmann to approve the minutes of November 6, 2024 meeting of the TB, UD1, SD4 as presented; seconded by Charlier.
Motion prevailed by a voice vote (5-0).
5. Citizen Comments: Three-minute limit. None.
6. New Business:
 - a. Discussion and possible action regarding the proposed 2025 Budget.
Motion by Kohlmann to approve the 2025 Budget as presented; seconded by Charlier.
Motion prevailed by a voice vote (5-0).
7. Approval of Vouchers & Checks.
Motion by Charlier to approve vouchers and checks in the amount of \$568,878.16; seconded by Kohlmann.
Motion prevailed by a voice vote (5-0).
8. Communication and Announcements.
Chad Brown noted the Town tree lighting will be held from 3:00 - 5:30 p.m. on Saturday, November 30, 2024.
Fire Chief Schilling updated the Board on the fire that occurred at Oscar's Frozen Custard.
Administrator Hagie mentioned the recently approved street sign design with a sample sign on display.
9. Adjourn.
Motion by Kohlmann to adjourn at 8:04 p.m.; seconded by Charlier.
Motion prevailed by a voice vote (5-0).

Respectfully submitted,

Tom Hagie, Administrator/Interim Clerk

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 individuals with disabilities through appropriate aids and services. For additional information or to request such services contact the clerk's office at the above.



Memo

To: Town Board
From: Tom Hagie, Town Administrator
Date: February 10, 2025
Re: Strand Associates, Inc. TO 2025-01 – Davidson Road Reconstruction

The Town of Brookfield is partnering with the City of Brookfield and City of Waukesha to reconstruct roughly 10,000 feet of Davidson Road from Stonehedge Drive in the City of Brookfield to its termini in the City of Waukesha near E Main Street. The project is split into three segments

1. Waukesha segment – Termini to Springdale (~2,200 feet)
2. West segment – Springdale Road to Barker Road (~4,800 feet)
3. East segment – Barker Road to Stonehedge Drive (~3,000 feet)

The City of Waukesha has elected to complete their own design for their section of the project and we will be incorporating their project into the overall bid package. The City of Brookfield has deferred to us for the design, bidding, and construction management given that the Town has the largest section of the project.

The project cost will be split based on the cost related to each section of the project. To offset Town costs, the Town applied for and received a \$1.72 million grant through the Local Road Improvements Program – Supplemental projects program for the design and construction costs related to the project. Tables 1-3 summarize the cost related to the East and West segments of the project, the cost share with the State, and the total cost for the Town.

Table 1 DAVIDSON ROAD - WEST SEGMENT

Component	Local Share (30%)	State Share (70%)	Total Cost	%
Stormwater	\$309,000	\$721,000	\$1,030,000	41.90%
Road	\$332,400	\$775,600	\$1,108,000	45.10%
Engineering	\$96,000	\$224,000	\$320,000	13.00%
Total	\$737,400	\$1,720,600	\$2,458,000	100.00%

Table 2 - DAVIDSON ROAD - EAST SEGMENT

Component	Local Share (100%)	State Share (0%)	Cost	%
Stormwater	\$100,000	\$0	\$100,000	15.63%
Road	\$470,000	\$0	\$470,000	73.44%
Engineering	\$70,000	\$0	\$70,000	10.94%
Total	\$640,000	\$0	\$640,000	100.00%

Table 3 – Total Project Cost Summary

Component	Town Share	State Share	Cost	%
Stormwater	\$410,000	\$721,000	\$1,130,000	36.48%
Road	\$810,000	\$775,600	\$1,578,000	50.94%
Engineering	\$170,000	\$224,000	\$390,000	12.59%
Total	\$1,390,000	\$1,720,600	\$3,098,000	100.00%

Table 4 summarizes the cost share between municipalities for Strand Associates, Inc. Task Order 2025-01. The cost split is based on the percentage of roadway ownership between the Town and City of Brookfield, roughly 89% Town/11% City, for the survey, design, and bidding costs. The City of Waukesha is surveying and designing their own portion of the project and therefore their costs have not been included. However, a small cost for the City of Waukesha is included to incorporate their plans and specifications into the bidding documents.

Table 4 – Task Order 2025-01 Cost Summary

Task	Total Cost	Est. Hours	Cost Share		
			Town of Brookfield	City of Brookfield	City of Waukesha*
Survey	\$36,000	200	\$32,000	\$4,000	--
Design	\$179,000	985	\$159,000	\$20,000	--
Bidding	\$5,000	25	\$2,000	\$2,000	\$1,000
TOTAL	\$220,000	1,210	\$193,000	\$26,000	\$2,000

* City of Waukesha is surveying and designing their portion of project (dead-end to 200' east of Springdale Road)

Being considered at the February 19, 2025 Town Board meeting is the approval of Task Order 2025-01 for Strand Associates, Inc. The construction costs will be considered at a future Town Board meeting.

Thank you,
Tom Hagie
Town Administrator



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

Task Order No. 25-01
Town of Brookfield, Wisconsin (OWNER)
and Strand Associates, Inc.® (ENGINEER)
Pursuant to Agreement for Technical Services dated May 22, 2023

Project Information

Project Name: Davidson Road Reconstruction

Services Description: Provide survey, design, and bidding-related services for the reconstruction of approximately 4,750 linear feet of Davidson Road (from 200 feet east of Springdale Road to Barker Road) and approximately 3,000 linear feet of Davidson Road (from Barker Road to Stonehedge Drive).

Scope of Services

ENGINEER will provide the following services to OWNER.

Survey Services

1. Contact Diggers Hotline to mark buried utilities. Provide a topographic survey of the Davidson Road corridor from the western limits (200 feet east of Springdale Road) to South Stonehedge Drive.
2. Assist OWNER in communicating with private utility owners within the project area.

Design Services

1. Prepare road drawings for the pulverization of the existing asphalt pavement and underlying base course and overlay of new asphalt pavement. The proposed roadway section from Springdale Road to Barker Road includes two 12-foot-wide lanes with new curb and gutter and storm sewer design. This segment of the corridor will include design of a new paved multi-use path. The proposed roadway section from Barker Road to Stonehedge Drive includes two 11-foot-wide lanes with four-foot-wide paved shoulders on each side and two-foot-wide gravel shoulders. The roadway design will include grading of ditches on each side of the road, driveway culvert replacement, roadway cross culverts, and restoration.
2. Prepare the following road drawings:
 - a. Title sheet.
 - b. General notes.
 - c. Typical sections.
 - d. Construction details.
 - e. Intersection details (including up to 24 curb ramp details).
 - f. Plan and profile view drawings with storm sewer design and tables.
 - g. Erosion control and restoration drawing.
 - h. Stormwater Best Management Practice plan and detail drawing.

Town of Brookfield, Wisconsin
Task Order No. 25-01
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- i. Pavement marking and permanent signage drawings (nonstandard sign layouts are not anticipated).
 - j. Traffic control drawings.
 - k. Cross sections (50-foot frequency and at driveways).
3. Prepare draft Bidding Documents using Engineers Joint Contract Documents Committee C-700 Standard General Conditions of the Construction Contract, 2018 edition, technical specifications, and engineering drawings and incorporate OWNER review comments, as appropriate.
4. Prepare for and attend a kickoff meeting and three design review meetings with OWNER.
5. Prepare prebid opinion of probable construction costs for the project and submit to OWNER.
6. Prepare and submit Wisconsin Department of Natural Resources Construction Site Erosion Control and Stormwater Permit. OWNER shall pay permit fees.
7. Prepare a stormwater management plan in accordance with Wisconsin State Legislative Code, Chapter NR 151.

Bidding-Related Services

1. Distribute Bidding Documents electronically through QuestCDN, available at www.strand.com and www.questcdn.com. Submit Advertisement to Bid to OWNER for publishing in the Waukesha Freeman. OWNER shall pay the cost for publishing.
2. Prepare addenda and answer questions during bidding.
3. Attend bid opening, tabulate and analyze bid results, and assist OWNER in the award of the Construction Contract.
4. Prepare two sets of Contract Documents for signature, which shall be executed and distributed by OWNER.

Compensation

OWNER shall compensate ENGINEER for Services under this Task Order on an hourly rate basis plus expenses an estimated fee of \$220,000.

Schedule

Services will begin upon execution of this Task Order, which is anticipated the week of February 3, 2025. Services are scheduled for completion on December 31, 2026.

TASK ORDER AUTHORIZATION AND ACCEPTANCE:

ENGINEER:

STRAND ASSOCIATES, INC.®

OWNER:

TOWN OF BROOKFIELD, WISCONSIN

DRAFT

Joseph M. Bunker
Corporate Secretary

Date

DRAFT

Keith Henderson
Town Chairperson

Date

INTERMUNICIPAL COOPERATION AGREEMENT

This Intermunicipal Cooperation Agreement (this “Agreement”), dated as of the date identified on the signature page below (the “Effective Date”), is made pursuant to Wis. Stat. § 66.0301, and by and between the Town of Brookfield (the “Town”), the City of Brookfield (“COB”), and City of Waukesha (“COW”), all municipalities organized and existing under the laws of the State of Wisconsin.

WHEREAS, Davidson Road is located within each of the parties’ respective jurisdictional boundaries;

WHEREAS, a public construction project is scheduled to occur in 2025 to reconstruct approximately 10,000 linear feet of Davidson Road and other improvements, including but not limited to, the installation of curb, gutter, storm sewer, and a pedestrian pathway within or near the Davidson Road right-of-way (the “Project”); and

WHEREAS, the parties desire to enter into this Agreement to memorialize their rights and obligations as it relates to the Project.

NOW, THEREFORE, in consideration of the mutual promises and covenants set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Definitions. In addition to the words and terms elsewhere defined in this Agreement, the following words and terms when used in this Agreement shall have the meanings set forth below:

“Town Segment” means the portion of Davidson Road within the Town’s jurisdictional boundaries that is the subject of the Project, which consists of approximately 4,800 linear feet beginning at the Town and COW’s shared boundary (near Springdale Road) and continuing east to the intersection of Barker Road and Davidson Road.

“COB Segment” means the portion of Davidson Road within COB’s jurisdictional boundaries that is the subject of the Project, which consists of approximately 3,000 linear feet beginning at the intersection of Barker Road and Davidson Road and continuing east to the intersection of Stonehenge Drive and Davison Road.

“COW Segment” means the portion of Davidson Road within COW’s jurisdictional boundaries that is the subject of the Project, which consists of approximately 2,200 linear feet beginning at the Town and COW’s shared boundary (near Springdale Road) and continuing west to Davidson Road’s termini at East Main Street.

“Design Costs” means the actual costs related to designing plans and specifications, surveying, and engineering the Project or a portion of the Project.

2. Project Design Costs.

a. Town Segment and COB Segment. The Town and COB shall proportionately share in the Design Costs related to the Town Segment and COB Segment with the Town being responsible for 89% of such costs and COB being responsible for 11% of such costs. The Town shall be initially responsible for paying the Design Costs related to the Town Segment and COB Segment, and COB shall pay its 11% proportionate share of the Design Costs to the Town within 45 days of an invoice received from the Town. The Town may retain any third parties in order to carry out the Town's obligations under this Section.

b. COW Segment. COW shall be solely responsible for designing, surveying, and creating plans and specifications for the COW Segment (the "COW Segment Plans"). Upon completing all necessary COW Segment Plans, COW shall deliver the COW Segment Plans to the Town. The Town shall incorporate the COW Segment Plans into the Project's overall plans and specifications to be utilized for public bidding purposes. COW shall be solely responsible for all Design Costs related to the COW Segment and incorporating the COW Segment Plans into the Project's overall plans and specifications for public bidding purposes. The Town shall be initially responsible for the costs of incorporating the COW Segment Plans into the Project's overall plans and specifications for public bidding purposes, and COW shall pay such costs to the Town within 45 days of an invoice received from the Town. The Town may retain any third parties in order to carry out the Town's obligations under this Section.

3. Project Bidding. The parties shall each approve the proposed Project bidding documents in order to commence the solicitation of public construction bids for the Project (the "Project Bid"). Upon approval of the Project Bid, the Town shall be responsible for posting, soliciting, and awarding the Project Bid. The Project Bid shall be advertised as a joint project between the Town, COB, and COW. COB and COW shall execute any necessary documents to carry out the posting, soliciting, and awarding of the Project Bid. The costs of the posting, soliciting, and awarding the Project Bid shall be shared by the parties in accordance with their respective percentages set forth in Section 4 below. The Town shall be initially responsible for paying all costs of the posting, soliciting, and awarding the Project Bid, and COB and COW shall pay their proportionate share of such costs to the Town within 45 days of an invoice received from the Town. The Town may retain any third parties in order to carry out the Town's obligations under this Section.

4. Project Construction. The Town shall be responsible for the supervision of the Project. The costs related to Project supervision, engineering, and the Project's construction shall be shared between the parties in accordance with percentages set forth below:

Town of Brookfield:	48%
City of Brookfield:	30%
City of Waukesha:	22%

The Town shall be initially responsible for paying the Project supervision, engineering, and construction costs, and making regular payments to any third party retained by the Town to complete the Project. COB and COW's proportionate share of all or a portion of such costs shall be due within 45 days of an invoice received from the Town. The Town may retain any third

parties in order to carry out the Town's obligations under this Section. Each party shall be responsible for all condemnation awards, legal fees, and litigation expenses associated with the respective portion of Davidson Road located within that party's jurisdictional boundaries. A party will not be responsible for the other party's acts or omissions that are caused by or attributable to the other party's negligence or willful misconduct.

5. Change Orders. The parties shall approve any change orders that would result in additional Project costs in excess of 10% of the total Project cost set forth in the awarded Project Bid. At least seven days before the Town approves a change order that is an amount equal to or less than 10% of the total Project cost identified in the awarded Project Bid, the Town shall provide COB and COW written notice, and a copy of such change order.

6. Town Third-Party Costs. The costs of any third-party retained by the Town in order for the Town to perform its obligations under this Agreement shall be shared by the parties in accordance with their respective percentages set forth in Section 4 of this Agreement. COB and COW's proportionate share of all or a portion of such costs shall be due within 45 days of an invoice received from the Town.

5. Notices. All notices required by this Agreement shall be in writing and sent to the following addresses by first-class U.S. mail or email:

Town of Brookfield
Attn: Town Administrator
645 North Janacek Road
Brookfield, WI 53045
Email: administrator@townofbrookfield.com

City of Brookfield
Attn: City Engineer
2000 North Calhoun Road
Brookfield, WI 53005
Email: grisa@ci.brookfield.wi.us

City of Waukesha
Attn: _____
201 Delafield Street
Waukesha, WI 53188
Email: _____

6. Miscellaneous. This Agreement may not be amended or terminated without the written consent of the parties. This Agreement shall be binding upon and inure to the benefit of the parties, and their respective successors and assigns. Any dispute arising out of or relating to this Agreement must be commenced in Waukesha County Circuit Court and must be interpreted in accordance with the laws of the State of Wisconsin. This Agreement may be executed in counterparts, each of which when executed and delivered shall be deemed an original, but such counterparts together shall constitute but one and the same document. If any provision of this Agreement is deemed invalid or unenforceable, the remainder of this Agreement shall not be affected thereby and shall remain in full force and effect. No failure to exercise, and no delay in exercising, any right, power, or remedy hereunder on the part of any party shall operate as a waiver thereof, nor shall any single or partial exercise of any right, power, or remedy preclude any other or further exercise thereof or the exercise of any other right, power, or remedy. The Recitals of this Agreement, including all defined terms contained in the Recitals, are incorporated into, and made part of, this Agreement.

Dated as of the Effective Date.

TOWN OF BROOKFIELD

By: _____

Name: Keith Henderson, Chairman

Date: _____

ATTEST: _____
Tom Hagie, Interim Clerk

CITY OF BROOKFIELD

By: _____

Name: Steven V. Ponto, Mayor

Date: _____

ATTEST: _____
Renee Tadych, Acting Clerk

CITY OF WAUKESHA

By: _____

Name: Shawn N. Reilly, Mayor

Date: _____

ATTEST: _____
Linda Gourdoux, Interim Clerk



Office of the Town Administrator

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

Office: 262-796-3788 | Clerk@TownofBrookfield.com

Memo

To: Town Supervisors
From: Tom Hagie, Administrator
Date: February 28, 2025
Re: Municipal Court Judge Compensation Review

Municipal Court Judge JoAnn Eiring has requested the judge salary be reviewed, see attached email correspondence. Per Section 1.18, "The Town Board shall fix a salary for the Municipal Judge, which shall be in lieu of fees and costs. Fees and taxable costs shall be paid into the Town treasury, as the Town Board shall direct. The salary may be increased by the Town Board before the start of the second or subsequent year of service of the term of the Judge but shall not be decreased during a term."

Judge Eiring was reelected as the Municipal Court Judge in April 2023. Per the code, any adjustment would need to be approved prior to April 1, 2025.

Judge Eiring has been employed with the Town for 34 years and was first elected to Municipal Court Judge in 1991. Judge Eiring states that she has not received a raise from the Board in over 20 years. She is requesting the Board consider increasing the Municipal Court Judge salary to \$15,000 annually. Judge Eiring provided salary and case load information for surrounding comparable communities to support this request. Table 1 on the following pages combines this information with information previously collected as part of the Town Board compensation study.

Table 2 on the following pages summarizes the annual revenues and expenses related to the operation of the Municipal Court from 2007 through 2024.

I am providing the information included in this information for your review and consideration at the request of the Municipal Court Judge.

Respectfully submitted,
Tom Hagie
Administrator

Table 1: Community Data

Municipality	Population	Chairman/ Mayor Salary	Judge Salary	Annual Case Load
Town of Addison	3,422	\$8,000	No Court	
Town of Brookfield	6,480	\$15,000	\$8,627	1,580
Town of Delafield	8,100	\$6,762	Lake Country	
Town of Eagle	3,512	\$14,620	No Court	
Town of Genesee	7,167	\$15,000	No Court	
Town of Germantown	240	\$1,516	No Court	
Town of Jackson*	4,029	\$8,500	No Court	
Town of Merton	8,267	\$11,500	Lake Country	
Town of Oconomowoc	8,831	\$7,652	Lake Country	
Town of Polk	4,000	\$9,000	No Court	
Town of Wayne	2,254	\$12,000	No Court	
Village of Big Bend	1,489	\$4,000	\$3,600	809
Village of Butler	1,800	\$3,500	No Court	
Village of Elm Grove	6,316		\$13,000	2,100
Village of Lannon	2,290		\$4,200	765
Village of Lisbon	10,734	\$10,000	Lake Country	
Village of Nashotah	1,350	\$2,000	Lake Country	
Village of Pewaukee	8,159	\$6,040	\$15,000	1,500
Village of Slinger	6,100	\$6,000	No Court	
Village of Summit	5,202	\$6,000	Lake Country	
Village of Waukesha	8,471	\$12,000	No Court	
City of Brookfield	41,121	\$121,742	\$35,000	3,433
City of Delafield	7,085	\$7,500	Lake Country	
City of Mukwonago	8,492		\$14,795	1,736
City of Muskego	25,000	\$72,000	\$17,000	2,251
City of New Berlin	40,000	\$10,050	\$28,369	4,193
City of Oconomowoc	19,126	\$7,091	Lake Country	
City of Pewaukee	16,293		\$16,500	2,060
City of Waukesha	70,446		\$35,000	5,358

Table 2: Municipal Court Annual Budget

Year	Revenue	Judge Salary	Operating	Attorney	Net	Case Load
2007	\$187,691.74	\$8,627.00	\$47,573.70	\$45,462.61	\$86,028.43	2733
2008	\$241,592.97	\$8,627.00	\$50,495.68	\$39,558.46	\$142,911.83	3497
2009	\$276,212.94	\$8,627.00	\$58,774.04	\$39,899.06	\$168,912.84	3958
2010	\$249,069.24	\$8,627.00	\$35,901.74	\$61,991.28	\$142,549.22	4545
2011	\$270,593.41	\$8,627.00	\$37,750.43	\$63,024.50	\$161,191.48	5232
2012	\$297,527.60	\$8,627.00	\$44,666.09	\$57,330.48	\$186,904.03	5933
2013	\$249,030.10	\$8,627.00	\$45,158.20	\$45,156.69	\$150,088.21	5014
2014	\$307,362.35	\$8,627.00	\$47,481.17	\$76,387.25	\$174,866.93	2378
2015	\$302,645.19	\$8,627.00	\$49,183.63	\$73,842.68	\$170,991.88	4482
2016	\$267,660.93	\$8,627.00	\$49,437.19	\$65,957.39	\$143,639.35	4578
2017	\$186,712.52	\$8,627.00	\$78,980.27	\$56,304.42	\$42,800.83	2450
2018	\$193,770.58	\$8,627.00	\$84,837.00	\$48,784.39	\$51,522.19	2193
2019	\$164,705.96	\$8,627.00	\$87,854.41	\$60,803.34	\$7,421.21	2028
2020	\$139,209.05	\$8,627.00	\$86,840.91	\$47,494.59	(\$3,753.45)	1666
2021	\$185,706.77	\$8,627.00	\$92,343.95	\$37,972.45	\$46,763.37	2169
2022	\$167,004.20	\$8,627.00	\$92,054.23	\$43,868.88	\$22,454.09	1779
2023	\$134,073.49	\$8,627.00	\$92,590.24	\$87,773.41	(\$54,917.16)	1846
2024	\$135,451.30	\$8,627.00	\$97,937.87	\$58,746.18	(\$29,859.75)	1580

Tom Hagie

To: jeiring4@gmail.com
Subject: RE: Salary comparisons; municipal judges

Hi Tom,

Attached are the salary comparisons for all Municipal Judges in Waukesha County, along with data from several other municipalities similar to the Town of Brookfield. I've also included our court's caseload for the past 18 years (though, for some reason, it doesn't go back further).

I would like to highlight that I have been an employee of the Town for 34 years and have not received a raise in over 20 years. Since its inception, the court has run efficiently and has consistently performed well for the Town in terms of revenue generation. Our collection rate for forfeitures assessed has consistently been very good and better than most other courts. Additionally, both Kathy and I played a key role in transitioning our collections to State Debt Collections, which is administered by the Department of Revenue. This change has proven to be far more effective and less costly for the Town compared to the previous method of sending unpaid forfeitures to other collection agencies. Since moving to State Debt Collections, the Town no longer incurs fees for each debt collected. Instead, these fees are now paid by the defendant. I believe we implemented this change in 2015, saving the Town significant fees and increasing the success rate of collecting outstanding forfeitures.

In addition to serving as a judge for the Town, I have been a member of Wisconsin's Judicial Education Committee for the past 28 years. This committee is responsible for the education and training of all 245 judges in the state. While this work is voluntary, it reflects positively on the Town, as many aspects of our court have been used as training tools for other courts. Furthermore, when I attend or teach at the 4-5 conferences held each year, the Town does not need to reimburse me for hotel, mileage, and meal expenses, as the State of Wisconsin covers these costs. This has saved the Town over a thousand dollars annually.

Considering my long tenure, the contributions I've made to the court and the Town, and the responsibilities I have taken on, I believe it is appropriate to discuss an adjustment to my salary. I would appreciate the opportunity to meet and discuss this further at your earliest convenience.

Thank you for your time and consideration.

Best regards,
JoAnn

Municipal Judge salaries

Waukesha County Municipal Courts:

BROOKFIELD, CITY	\$35,000	3433 cases
BROOKFIELD, TOWN	\$8,627	see caseload history below. My last raise was over 20 yrs ago
BIG BEND	\$3,600	809 cases
*ELM GROVE	\$13,000	2100 cases
LANNON	\$4,200	765 cases
*MUKWONAGO	\$14,795	1736 cases
MUSKEGO	\$17,000	2251 cases
NEW BERLIN	\$28,369	4193 cases
*PEWAUKEE, CITY	\$16,500	2060 cases
*PEWAUKEE, VILLAGE	\$15,000	1500 cases
WAUKESHA	\$35,000	5358 cases

*Courts most similar in size to the Town of Brookfield's court

LAKE MILLS	\$8640	753 cases
PLYMOUTH	\$9,270	594 cases
DELAN	\$13,951	780 cases

TOB caseload for the past 18 years:

2007	2733
2008	3497
2009	3958
2010	4545
2011	5232
2012	5933
2013	5014
2014	5378
2015	4482
2016	4578
2017	2450
2018	2193
2019	2028
2020	1666 COVID
2021	2169
2022	1779
2023	1846
2024	1580

February 25, 2025

**Town of Brookfield
645 North Janacek Road
Brookfield, WI 53045**

Attn: Mr. Bryce Hembrook, AICP

Re: Discount Tire – Site Plan Modifications

Dear Mr. Hembrook,

The attached site plans and elevations reflect the request, on behalf of Discount Tire to relocate the trash enclosure from the previously approved location to a new location directly behind the building. Reasonings for this include:

- Trash enclosure doors would face the back of the Discount Tire store and not residential to the east.
- The new location would offer enhanced landscaping with the addition of trees to block the enclosure from view.
- Relocating the enclosure away from the building would decrease the chance of a dumpster fire jumping to the building.

I look forward to discussing the site plans and reasons with the Town Board on the 4th of March.

Respectfully,



Site Development Specialist

FIELD DATE JULY 25, 2023
HORIZONTAL DATUM Wisconsin State Plane Coordinate System, South Zone (NAD 27). (same as adjoining CSM 11798)
REFERENCE POINTS Concrete Mon with Alum Cap at West 1/4 corner (Barker Rd) N. 384169.49 E. 2490103.70
VERTICAL DATUM NAVD 1988(12)
STARTING BENCHMARK Concrete Mon with Alum Cap at West 1/4 corner (Barker Rd) elev 832.48 (per GPS observation on tie sheet) 384169.49 E. 2490103.70
SITE BENCHMARKS #1002 - SW bolt on Hydrant on West side of Poplar Creek Drive, elevation 846.67 Door Sill at main Entrance, South side of Building, elevation 848.99
Disclaimer: The above vertical and horizontal reference points were measured on the field date listed hereon for the purpose of locating visible improvements and elevations illustrated on the design survey. The reference points are not intended for construction purposes nor is the perpetuation and/or protection of the reference points ensured. All reference points must be field verified prior to use in construction and/or layout staking.

DIVISION 1 – GENERAL REQUIREMENTS

01 41 00 – REGULATORY REQUIREMENTS

1. THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED:
- a. WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) STORM WATER TECHNICAL STANDARDS
 - b. WISCONSIN EROSION CONTROL PRODUCT ACCEPTABILITY LIST
 - c. STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (SSSWCW)
 - d. WISCONSIN ADMINISTRATIVE CODE, SECTIONS SPS 382–387
 - e. WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION
 - f. FEDERAL HIGHWAY ADMINISTRATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
 - g. WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
 - h. UNITED STATES DEPARTMENT OF JUSTICE ADA STANDARDS
 - i. UNITED STATES DEPARTMENT OF TRANSPORTATION ADA STANDARDS FOR TRANSPORTATION FACILITIES
 - j. MUNICIPALITY DEVELOPMENT STANDARDS
 - k. COUNTY DEVELOPMENT STANDARDS
2. THE OWNER, ENGINEER, WISDOT, AND MUNICIPALITY SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF PERFORMING ANY CONSTRUCTION ACTIVITIES. A REPRESENTATIVE FROM THE ENGINEERING FIRM AND THE SANITARY DISTRICT MUST BE ONSITE DURING THE NEW TAPPING AND ABANDONMENT OF THE WATER SERVICES.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS AND FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.
5. SHOP DRAWINGS AND/OR MANUFACTURER'S PRODUCT DATA SUBMITTALS ARE REQUIRED ONLY IF THE PRODUCT OR METHOD OF CONSTRUCTION IS DIFFERENT FROM THAT SPECIFIED OR IF REQUIRED BY THE MUNICIPAL ENGINEER.
- a. ALL DOCUMENTS SUBMITTED FOR REVIEW SHALL HAVE THE SPECIFIC MATERIAL, PART, SIZE, ETC. HIGHLIGHTED IN SOME FASHION. EXAMPLE: A FITTING CUT SHEET HAS MULTIPLE PRESSURE RATING FOR DIFFERENT SIZE BENDS. HIGHLIGHT THE PRESSURE CLASS & SIZE TO BE USED ON PROJECT. ALL SUBMITTALS NOT PROPERLY IDENTIFYING THE SPECIFIC MATERIAL BEING USED WILL BE REJECTED.
 - b. CONTRACTOR SHALL SUBMIT A PDF COPY AND AN EXPLANATION AS TO HOW THE SUBSTITUTION MEETS THE PROPOSED DESIGN (PRODUCT SPECIFICATION SHEETS WITHOUT EXPLANATION WILL NOT BE ACCEPTED) TO THE OWNER'S REPRESENTATIVE OR ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT PROCEED UNTIL THE OWNER'S APPROVAL IS GIVEN. IN PROJECT SCHEDULING CONTRACTOR SHALL ACCOUNT FOR 5 WORKING DAYS FOR SUBMITTAL REVIEW. IN THE EVENT SUCH SUBSTITUTION IS APPROVED, THE OWNER WILL REQUIRE FROM THE CONTRACTOR A CREDITED DEDUCTION FROM THE CONTRACT AMOUNT EQUAL TO ANY SAVINGS IN MATERIAL COST RESULTING FROM USE OF THE PROPOSED SUBSTITUTE.
6. THE CONTRACTOR SHALL ASSUME COMPLETE AND SOLE RESPONSIBILITY FOR THE QUALITY OF WORK. IF CHANGES OR ADJUSTMENTS ARE RECOMMENDED BY THE CONTRACTOR, THEY MAY BE MADE ONLY UPON WRITTEN APPROVAL OF THE OWNER OR THEIR REPRESENTATIVE.
- a. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE OWNER OR THEIR REPRESENTATIVE SHALL DECIDE ALL QUESTIONS WHICH SHALL ARISE AS TO THE QUALITY AND ACCEPTABILITY OF MATERIALS FURNISHED, WORK PERFORMED, AND WORKMANSHIP. , INTERPRETATION OF THE PLANS AND SPECIFICATIONS HE SHALL DETERMINE THE AMOUNT OF WORK PERFORMED AND MATERIALS FURNISHED.
 - b. FAILURE OR NEGLIGENCE ON THE PART OF THE OWNER OR THEIR REPRESENTATIVE TO CONDEMN OR REJECT SUBSTANDARD OR INFERIOR WORK OR MATERIALS SHALL NOT BE CONSTRUED TO IMPLY AN ACCEPTANCE OF SUCH WORK OR MATERIALS; IF IT BECOMES EVIDENT AT ANY TIME PRIOR TO THE FINAL ACCEPTANCE OF THE WORK BY THE OWNER. NEITHER SHALL IT BE CONSTRUED AS BARRING THE OWNER, AT ANY SUBSEQUENT TIME, FROM THE RECOVERY OF DAMAGES OR OF SUCH A SUM OF MONEY MAY BE NEEDED TO BUILD ANEW ALL PORTIONS OF THE SUBSTANDARD OR INFERIOR WORK OR REPLACEMENT OF IMPROPER MATERIALS WHEREVER FOUND.
 - c. INSPECTORS EMPLOYED BY THE OWNER SHALL BE AUTHORIZED TO INSPECT ALL WORK DONE AND ALL MATERIAL FURNISHED. SUCH INSPECTION MAY EXTEND TO ALL OR ANY PART OF THE WORK AND TO THE PREPARATION, FABRICATION OF THE MATERIALS TO BE USED. THE INSPECTOR IS NOT AUTHORIZED TO REVOKE, ALTER OR WAIVE ANY REQUIREMENTS OF THE SPECIFICATIONS, NOR IS HE AUTHORIZED TO APPROVE OR ACCEPT ANY PORTION OF THE COMPLETED PROJECT. HE SHALL CALL THE ATTENTION OF THE CONTRACTOR TO ANY FAILURE OF THE WORK OR MATERIALS TO CONFORM TO THE SPECIFICATIONS AND CONTRACT, AND SHALL HAVE THE AUTHORITY TO REJECT MATERIALS. ANY DISPUTE BETWEEN THE INSPECTOR AND CONTRACTOR SHALL BE REFERRED TO THE OWNER OR THEIR REPRESENTATIVE. ANY ADVICE WHICH THE INSPECTOR SHALL IN NO WAY BE CONSTRUED AS BINDING THE ENGINEER IN ANY WAY OR RELEASING THE CONTRACTOR FROM FULFILLING ANY OF THE TERMS OF THE CONTRACT.
 - d. ALL MATERIALS AND EACH PART OF DETAIL OF THE WORK SHALL BE SUBJECT AT ALL TIMES TO INSPECTION BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE OR THE AUTHORITY HAVING JURISDICTION AND THE CONTRACTOR WILL BE HELD STRICTLY TO THE TRUE INTENT OF THE SPECIFICATIONS IN REGARD TO QUALITY OF MATERIALS, WORKMANSHIP, AND THE DILIGENT EXECUTION OF THE CONTRACT. SUCH INSPECTION MAY INCLUDE MILL, PLANT OR SHOP INSPECTION, AND ANY MATERIAL FURNISHED UNDER THESE SPECIFICATIONS IS SUBJECT TO SUCH INSPECTION. THE OWNER OR HIS REPRESENTATIVES SHALL BE ALLOWED ACCESS TO ALL PART OF THE WORK, AND SHALL BE FURNISHED WITH SUCH INFORMATION AND ASSISTANCE BY THE CONTRACTOR AS IS DETERMINED BY THE OWNER OR HIS REPRESENTATIVE, TO MAKE A COMPLETE AND DETAILED INSPECTION.
 - e. ALL WORKMANSHIP SHALL CONFORM TO THE BEST STANDARD PRACTICE. UNLESS OTHERWISE SPECIFIED, THE SPECIFICATIONS OR RECOGNIZED ASSOCIATION OF MANUFACTURERS AND CONTRACTORS OR INDUSTRIAL MANUFACTURERS SHALL BE USED AS GUIDES FOR THE STANDARDS OF WORKMANSHIP.
 - f. ALL EXPOSED ITEMS OF WORK SHALL PRESENT A NEAT WORKMANLIKE APPEARANCE AND SHALL BE PROTECTED AS POSSIBLE TO OBTAIN WITH MEASURING OR LEVELING INSTRUMENTS GENERALLY USED IN THE RESPECTIVE TYPES OF WORK. ITEMS OF WORK SHALL BE SOUND AND FULLY PROTECTED AGAINST DAMAGE AND PREMATURE DETERIORATION. IT IS SPECIFICALLY UNDERSTOOD THAT IN ALL QUESTIONS OF QUALITY AND ACCEPTABILITY OF WORKMANSHIP, THE CONTRACTOR AGREES TO ABIDE BY THE DECISION OF THE OWNER OR THEIR REPRESENTATIVE.
 - g. ALL MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE CONSIDERED AS DEFECTIVE, AND ALL SUCH MATERIALS, WHETHER IN-PLACE OR NOT, SHALL BE REJECTED AND SHALL BE REMOVED FROM THE WORK BY THE CONTRACTOR AT HIS EXPENSE. UPON FAILURE ON THE PART OF THE CONTRACTOR TO COMPLY WITH ANY ORDER OF THE OWNER RELATIVE TO THE PROVISIONS OF THIS ARTICLE, THE OWNER SHALL HAVE THE AUTHORITY TO REMOVE AND REPLACE SUCH DEFECTIVE MATERIAL AND TO DEDUCT THE COST OF REMOVAL AND REPLACEMENT FROM ANY MONIES DUE OR WHICH MAY BECOME DUE THE CONTRACTOR.
 - h. THE CONTRACTOR SHALL KEEP A LEGIBLE COPY OF THE PLANS, SPECIFICATIONS, AND ALL PERMITS AT THE SITE OF THE WORK AT ALL TIMES.
 - i. AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE THE OWNER OR THEIR REPRESENTATIVE WITH A MARKED-UP SET OF DRAWINGS SHOWING ALL CHANGES OR VARIATIONS FROM THE ORIGINAL DRAWINGS. THESE CHANGES SHALL BE MADE ON A SET OF FIELD DRAWINGS AS THE WORK TAKES PLACE, AND NOT FROM MEMORY WHEN THE WORK IS DONE. THIS SET OF DRAWINGS SHOULD BE KEPT CLEAN IN A LOCATION AT THE SITE WHERE THE OWNER OR THEIR REPRESENTATIVE MAY EXAMINE THEM.
 - j. THE MARKED-UP DRAWINGS SHALL BE ACCURATE. ARBITRARY MARKINGS ARE OF NO VALUE. CAREFUL MEASUREMENTS SHALL BE MADE TO LOCATE UNDERGROUND EXTERIOR AND UNDERGROUND INTERIOR SEWERS, GAS LINES, WATER LINES, ELECTRICAL CONDUIT AND MISCELLANEOUS PIPING.
7. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRAFFIC CONTROL PLANS AND PERMITTING FOR ALL WORK TO BE COMPLETED ONSITE OR IN THE PUBLIC RIGHT-OF-WAY.

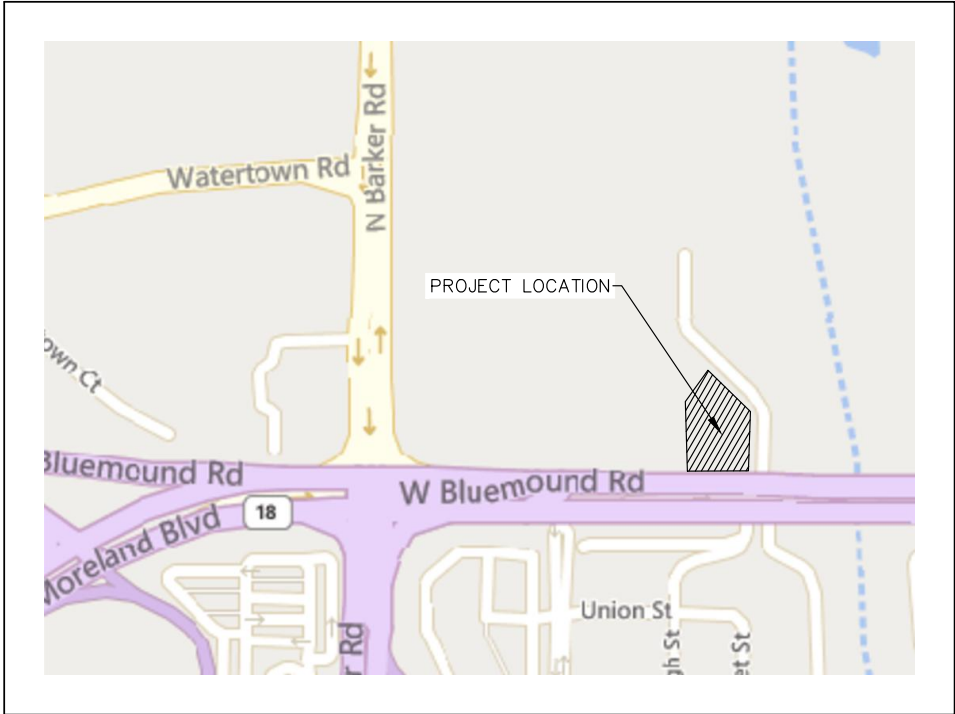
01 70 00 – EXECUTION & CLOSEOUT REQUIREMENTS

1. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL EXISTING SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE WITH THIS PLAN.
2. EXISTING UTILITY INFORMATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY, BASED ON BEST AVAILABLE PUBLIC RECORDS, AS-BUILT DRAWINGS, AND FIELD OBSERVATIONS. NO RESPONSIBILITY IS ASSUMED BY THE OWNER OR ENGINEER FOR ACCURACY OR COMPLETENESS. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND NATURE OF EXISTING UTILITIES, AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
3. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS, ELEVATIONS, AND SIZES OF EXISTING UTILITIES AND SHALL CHECK ALL PROPOSED UTILITY CONNECTIONS AND CROSSINGS PRIOR TO PROCEEDING WITH ANY WORK. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER SO REDESIGN MAY OCCUR IF NEEDED. COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT MAY BE AVAILABLE FROM THE OWNER. THE CONTRACTOR SHALL ABIDE BY THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND SUBSEQUENT RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF THE BENCHMARKS AND HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES, AND SHALL NOTIFY THE ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH ANY WORK.
6. SURVEY BENCHMARKS AND CONTROL POINTS SHALL BE MAINTAINED AND PROTECTED FROM DISTURBANCE.
7. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED AT ALL TIMES. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR. THE COST OF RESTORATION IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED.
9. PUBLIC ROADS SHALL NOT BE FULLY CLOSED TO TRAFFIC AT ANY TIME. ALL INGRESS AND EGRESS TRAFFIC TO THE PROJECT SITE SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE.
10. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES, SHALL BID ON THEIR OWN ESTIMATE OF THE WORK REQUIRED, AND SHALL NOT RELY ON THE ENGINEER'S ESTIMATE.
11. REQUESTS FOR CLARIFICATION WILL BE INTERPRETED BY THE OWNER/ENGINEER PRIOR TO AWARD OF CONTRACT, AND WHEN NECESSARY, OFFICIAL WRITTEN RESPONSES WILL BE ISSUED. OFFICIAL WRITTEN RESPONSES SHALL BE BINDING TO THE WORK. IN NO WAY SHALL VERBAL DIALOGUE CONSTITUTE OFFICIAL RESPONSE.
12. SHOULD ANY DISCREPANCIES BE DISCOVERED BY THE CONTRACTOR AFTER AWARD OF CONTRACT, NOTIFY OWNER/ENGINEER IN WRITING IMMEDIATELY. CONSTRUCTION OF ITEMS AFFECTED BY THE DISCREPANCIES SHALL NOT COMMENCE OR CONTINUE UNTIL AN OFFICIAL WRITTEN RESPONSE IS ISSUED.
13. ALL WORK SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL INCLUDE ALL DEFECTS IN MATERIALS AND WORKMANSHIP.
14. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.

SPECIFICATIONS CONTINUED ON SHEET C000

SITE DEVELOPMENT PLANS FOR DISCOUNT TIRE 20120 WEST BLUEMOUND ROAD BROOKFIELD, WI 53045

VICINITY MAP



DEVELOPER/OWNER:

BR OF WISCONSIN 19 LLC
PO BOX 13125
MILWAUKEE, WI 53213-0125

SANITARY SUPERINTENDENT

TONY SKOF
SANITARY DISTRICT#4, TOWN OF BROOKFIELD
TONYSD4@GMAIL.COM
262-798-8629

CIVIL ENGINEER/LANDSCAPE ARCHITECT:

raSmith
CREATIVITY BEYOND ENGINEERING

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rasmith.com



Know what's below.
Call before you dig.

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PLAN INDEX

SHEET NO.	DESCRIPTION
C000	TITLE SHEET
C300	SITE AND GRADING PLAN
EX-140	TRUCK ACCESS EXHIBIT

PLAN PREPARED BY:

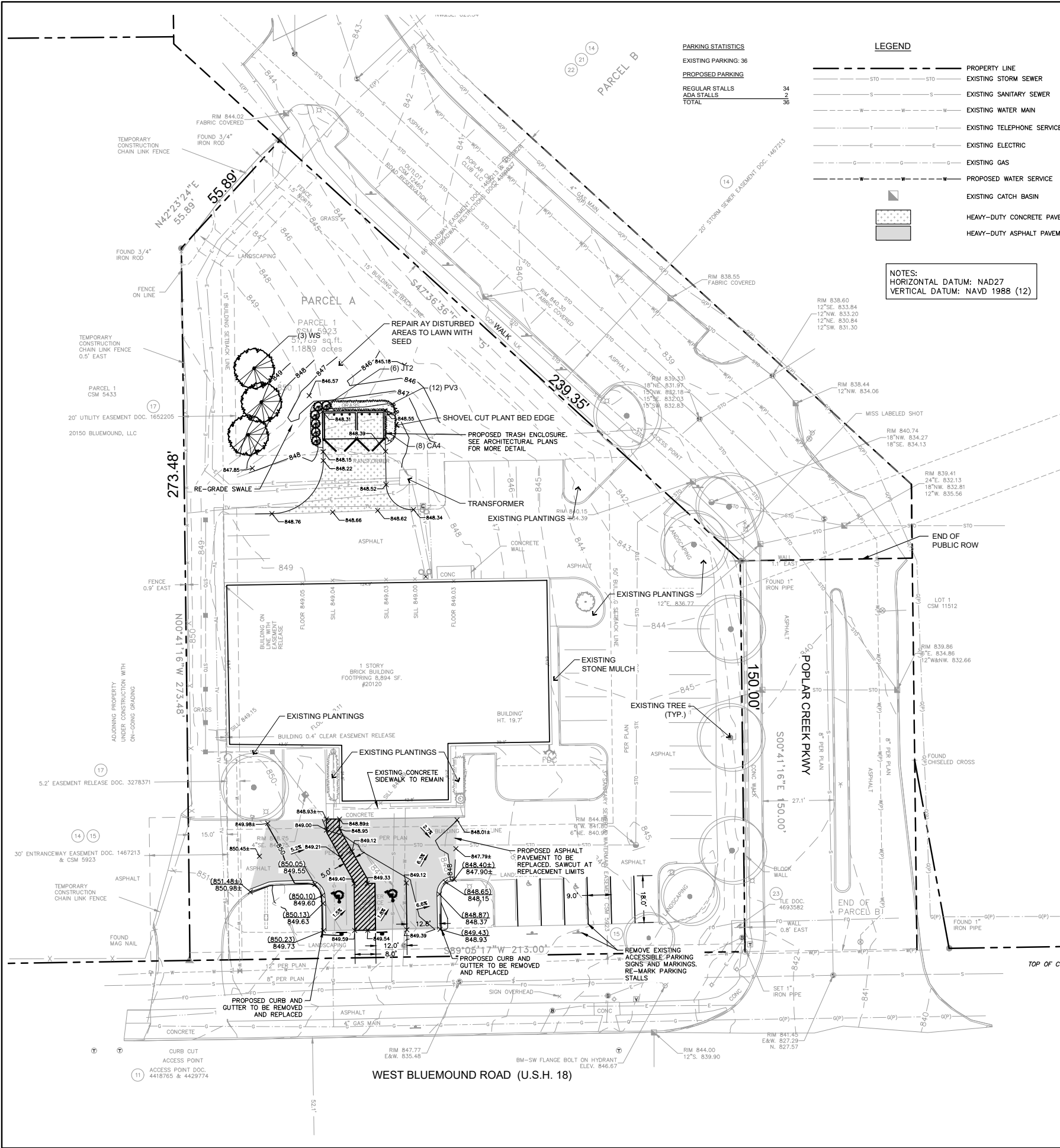
CHRISTOPHER WHITE
R.A. SMITH, INC.
(262) 317-3286
christopher.white@rasmith.com

45676-6	01/20/2025
NUMBER	DATE

PLAN DATE: 01/20/2025

REVISIONS	ISSUE DATE	SHEET NO.'S	ISSUED FOR:

DESCRIPTION	DATE	16745 W. Bluemound Road Brookfield, WI 53005-5938 (262) 781-1000 rasmith.com	raSmith CREATIVITY BEYOND ENGINEERING	DISCOUNT TIRE - WIE 02 TOWN OF BROOKFIELD	TITLE SHEET	© COPYRIGHT 2025 R.A. Smith, Inc. DATE: 01/20/2025 SCALE: NTS JOB NO. 3230120 PROJECT MANAGER: CHRISTOPHER WHITE, P.E. DESIGNED BY: EMG CHECKED BY: CBW SHEET NUMBER C000
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PARKING STATISTICS

EXISTING PARKING:	36
PROPOSED PARKING	
REGULAR STALLS	34
ADA STALLS	2
TOTAL	36

LEGEND

---	PROPERTY LINE
---	EXISTING STORM SEWER
---	EXISTING SANITARY SEWER
---	EXISTING WATER MAIN
---	EXISTING TELEPHONE SERVICE
---	EXISTING ELECTRIC
---	EXISTING GAS
---	PROPOSED WATER SERVICE
---	EXISTING CATCH BASIN
---	HEAVY-DUTY CONCRETE PAVEMENT
---	HEAVY-DUTY ASPHALT PAVEMENT

NOTES:
HORIZONTAL DATUM: NAD27
VERTICAL DATUM: NAVD 1988 (12)

DIVISION 32 - EXTERIOR IMPROVEMENTS

32 12 00 - ASPHALT PAVING

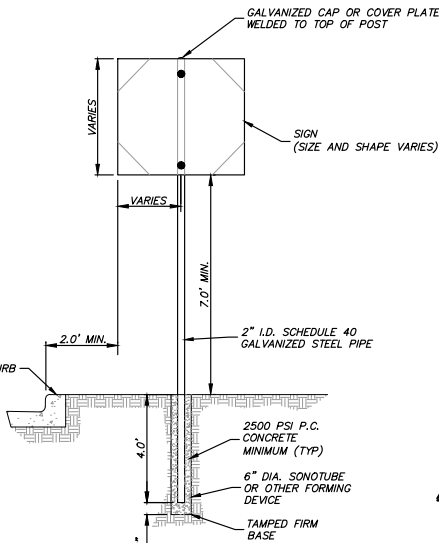
1. WORK SHALL CONSIST OF FINE GRADING SUBGRADE, EXCAVATION BELOW SUBGRADE (IF NECESSARY), PLACEMENT OF CRUSHED STONE BASE, INSTALLATION OF HOT-MIX ASPHALT, PAVEMENT MARKING, SIGNAGE, AND CLEANUP.
2. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
3. CRUSHED STONE BASE SHALL BE IN ACCORDANCE WITH SECTION 305 OF WISDOT STANDARD SPECIFICATIONS.
4. ASPHALTIC MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 455 OF WISDOT STANDARD SPECIFICATIONS.
5. AGGREGATE SHALL BE IN ACCORDANCE WITH SECTION 460 OF WISDOT STANDARD SPECIFICATIONS.
6. DO NOT CONDUCT ASPHALT PAVING IF ANY OF THE FOLLOWING CONDITIONS EXIST: CRUSHED STONE BASE IS WET OR EXCESSIVELY DAMP; TEMPERATURE IS BELOW 30 DEGREES FAHRENHEIT AT TIME OF BINDER COURSE INSTALLATION; TEMPERATURE HAS BEEN BELOW 35 DEGREES FAHRENHEIT WITHIN 12 HOURS PRIOR TO TACK COAT APPLICATION; TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT AT TIME OF SURFACE COURSE INSTALLATION.
7. COMPACT ASPHALT IN ACCORDANCE WITH SECTION 450 OF WISDOT STANDARD SPECIFICATIONS. COMPACT ASPHALT TO PRODUCE THE THICKNESS INDICATED WITHIN PLUS/MINUS 1/4-INCH FOR BINDER COURSE, AND WITHIN PLUS 1/4-INCH FOR SURFACE COURSE (NO MINUS).
8. APPLY TACK COAT BETWEEN ASPHALT COURSES AT A MINIMUM RATE OF 0.25 GAL/SY.
9. NO TRAFFIC SHALL BE ALLOWED ON ASPHALT AFTER FINAL ROLLING UNTIL IT HAS COOLED AND HARDENED.
10. FINAL ASPHALT SURFACE SHALL BE WITHIN A 1/8-INCH TOLERANCE AS DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED LONGITUDINALLY OR TRANSVERSELY. REMOVE AND REPLACE ALL RAISED AND DEPRESSED AREAS EXCEEDING TOLERANCE.
11. A SLOPE NO GREATER THAN 2% IN ALL DIRECTIONS AT ADA PARKING STALLS AND ADJACENT UNLOADING AREAS IS REQUIRED. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
12. A SLOPE NO GREATER THAN 5% ALONG THE LENGTH OF THE ACCESSIBLE ROUTE IS REQUIRED. A SLOPE NO GREATER THAN 2% ACROSS THE WIDTH OF THE ACCESSIBLE ROUTE IS REQUIRED. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

32 13 00 - CONCRETE PAVING

1. WORK SHALL CONSIST OF FINE GRADING SUBGRADE, EXCAVATION BELOW SUBGRADE (IF NECESSARY), PLACEMENT OF CRUSHED STONE BASE, INSTALLATION OF CONCRETE, AND CLEANUP.
2. ALL ITEMS SHALL INCLUDE ALL NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
3. CRUSHED STONE BASE SHALL BE IN ACCORDANCE WITH SECTION 305 OF WISDOT STANDARD SPECIFICATIONS.
4. CONCRETE SHALL BE GRADE A AIR-ENTRAINED IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
5. AGGREGATE SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS.
6. WATER SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS AND ASTM C94 / C94M.
7. AIR-ENTRAINING SHALL BE IN ACCORDANCE WITH SECTION 501 OF WISDOT STANDARD SPECIFICATIONS AND ASTM C260.
8. LIQUID CURING COMPOUND SHALL BE IN ACCORDANCE WITH SECTION 415 OF WISDOT STANDARD SPECIFICATIONS AND AASHTO M 148.
9. CURBING SHALL BE IN ACCORDANCE WITH SECTION 601 OF WISDOT STANDARD SPECIFICATIONS.
10. SIDEWALK AND PATIO SHALL BE IN ACCORDANCE WITH SECTION 602 OF WISDOT STANDARD SPECIFICATIONS.
11. CONCRETE FORMS SHALL REMAIN IN PLACE AT LEAST 24 HOURS AFTER CONCRETE INSTALLATION AND SHALL BE CLEANED AFTER EACH USE. CONCRETE FORMS SHALL BE COATED WITH RELEASE AGENT TO ALLOW SEPARATION WITHOUT DAMAGE TO CONCRETE.
12. CONSTRUCTION AND CONTRACTION JOINTS SHALL BE IN ACCORDANCE WITH SECTION 415 OF WISDOT STANDARD SPECIFICATIONS. JOINT PATTERN SHALL FOLLOW ARCHITECTURAL PLANS IF AVAILABLE.
13. ISOLATION JOINTS/PREFORMED JOINT FILLER STRIPS ABUTTING CURBING, INLETS, CATCH BASINS, MANHOLES, STRUCTURES, AND OTHER FIXED OBJECTS.

PLANT SCHEDULE SITE

CODE	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
EVERGREEN TREES						
JT2	6	Trautman Juniper	Juniperus chinensis 'Trautman'	4' - 5' HT	B&B	Spacing as shown
WS	3	White Spruce	Picea glauca	6' - 8' HT	B&B	Semi-heeled, fully bra
ORNAMENTAL GRASSES						
CA4	8	Karl Foerster Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	1 GAL	POT	24" Spacing
PV3	12	Heavy Metal Switch Grass	Panicum virgatum 'Heavy Metal'	1 GAL	CONT	30" Spacing



**SIGN AND POST
INSTALLATION - TYPE 2**
FOR ALL SIGNS ON SITE, OUTSIDE
THE BUILDING CURB
(NOT TO SCALE)



**VAN
ACCESSIBLE**

**PENALTY SIGN
WITH WORDING
AS REQUIRED
BY STATE OR
LOCAL LAW**

**ACCESSIBLE PARKING SIGNS
(NOT TO SCALE)**

- NOTES:**
1. ALL SIGNS SHALL BE MOUNTED TO POSTS BY MEANS OF 5/16" BOLTS. HOLES 3/8" IN DIAMETER, DRILLED THROUGH BOTH SIDES OF POSTS PRIOR TO SIGN INSTALLATION.
 2. ALL POST SHALL HAVE A GALVANIZED CAP OR COVER PLATE WELDED TO TOP OF POST.



R.A.SMITH, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY OR COSTS RESULTING FROM CHANGES OR ALTERATIONS MADE TO THIS PLAN WITHOUT THE EXPRESSED WRITTEN CONSENT OF R.A.SMITH, INC.

DESCRIPTION

DATE

16745 W. Bluemound Road
Brookfield, WI 53005-5938
(262) 781-1000
rasmith.com

raSmith
CREATIVITY BEYOND ENGINEERING

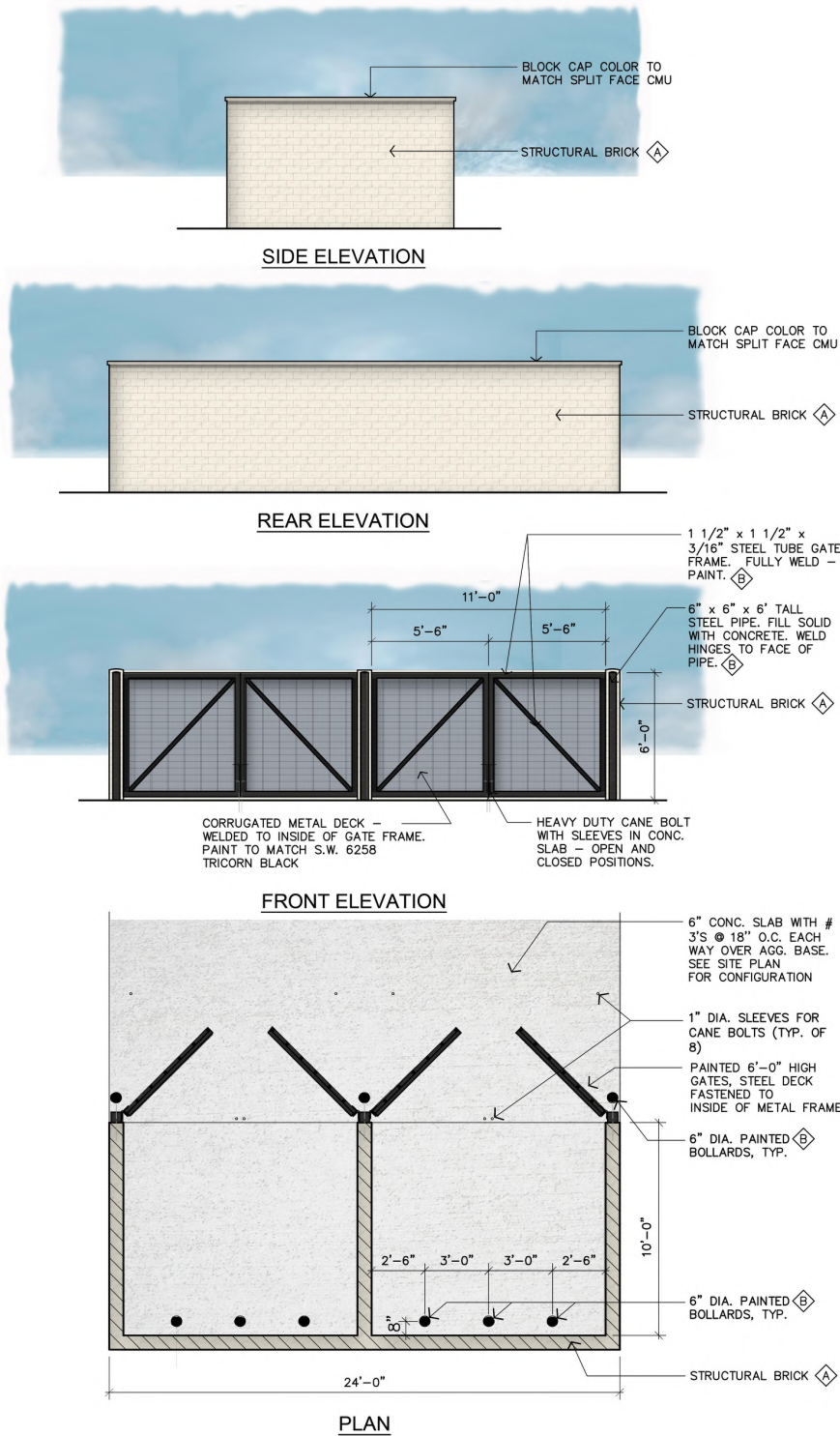
Brookfield, WI | Milwaukee, WI | Appleton, WI | Madison, WI
Cedarburg, WI | Naperville, IL | Irvine, CA

**DISCOUNT TIRE - WIE 02
TOWN OF BROOKFIELD**

SITE AND GRADING PLAN

© COPYRIGHT 2025
R.A. Smith, Inc.
DATE: 02/20/2025
SCALE: 1" = 20'
JOB NO. 3230120
PROJECT MANAGER:
CHRISTOPHER WHITE, P.E.
DESIGNED BY: CBW
CHECKED BY: CBW
SHEET NUMBER
C300

FINISH LEGEND	
A	ECHOLON – QUICK BRICK – COLOR: MENDINAH 3 5/8" X 7 5/8" X 15 5/8".
B	STEEL TUBE GATE FRAME, STEEL PIPES, AND STEEL BOLLARDS PAINT SHERWIN WILLIAMS SW 6258 "TRICORN BLACK".



TRASH ENCLOSURE PLAN / ELEVATIONS

1/4" = 1'-0"

ALT - T.E.

REV: 12/18/2024

DATE: 09/11/2024

JOB # A.2306041



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CONCEPTUAL ELEVATIONS

20120 W. BLUEMOUND ROAD

BROOKFIELD, WI 53045



PLUMP ENGINEERING INC.
CONSULTING ENGINEERS
STRUCTURAL, MECHANICAL, PLUMBING,
ELECTRICAL, CIVIL, SURVEYING,
ARCHITECTURAL
914 E. KATELLA AVENUE, ANAHEIM, CA 92805
P (714) 385-1835 F(714) 385-1834
www.plumpgroup.com

Sheet No.

T.E.



Building a Better World
for All of Us®

TOWN OF BROOKFIELD PLAN COMMISSION REPORT

TO: Plan Commission

FROM: Bryce Hembrook, AICP
Town Planner

REPORT DATE: February 20, 2025
PC MEETING DATE: February 25, 2025

RE: **Silgan Containers – Site Plan Amendment, Lighting, and Preliminary Signage
21027 Crossroads Circle BKFT1129999047**

SEH No. 171421, TASK 63

Applicant: Ken Krahe – MSI General Corp, representing Silgan Containers

Application Type: Site Plan Amendment Approval including Lighting and Signage Review

Request

Applicant is requesting conceptual approval of the addition of a boiler room and warehouse/mechanical room to the existing building located 21027 Crossroads Circle.

Summary of Request

- The applicant received approval in 2024 for a boiler room addition and a warehouse/mechanical room addition to the building located at 21027 Crossroads Circle.
- The applicant is proposing to install a back-up generator with integral level 2 sound enclosure west of the building addition. Also requesting to replace existing site lighting with LED fixtures in the parking area. The applicant is also providing signage renderings for review and comment by the Plan Commission. The Architectural Review Committee will have final approval of the proposed signage.
- Zoning District = B-2 Limited General Business District
- Lot size = 8.5 acres.
- The generator is proposed to be approximately 51' from the western property line.
- According to the applicant's narrative, the "generator will be equipped with a level 2 sound enclosure which reduces the noise of the generator under full load to an average of 75 decibels at a distance of 7 meters or 22 feet. (See the attached cut sheets for the generator and enclosure performance data.) The generator will be placed approximately 50 feet from the tree lined property line, which will further muffle the sound to the neighboring residences. Lastly, the generator runs for 30 minutes once a week during the middle of the day as test to ensure it is in good working order should it be needed due to a power failure.
- Lighting
 - The Town Engineer reviewed the proposed lighting plan and had the following comments:

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

- The photometric plan should be updated to include the light level at the property line. No point on the property line shall exceed 0.2 foot-candles.
 - The proposed fixtures appear to be full cut off, meeting Town ordinance.
 - The parking lot lighting meets the Town ordinance (minimum 0.4 fc required), but just as an observation, the average light level (5.05 fc - if I'm reading the calculation summary correctly) seems high. Typical parking lot light levels range from 0.5 fc up to 2 or 3 fc. If this property is in an industrial area, that's probably fine, but could be a problem if it's a more commercial area.
- Signage
 - The applicant provided signage renderings for the site. The signs will require review and approval by the Architectural Review Committee but Plan Commission can comment on the signage.

**TOWN OF BROOKFIELD
PLANNING COMMISSION RECOMMENDATIONS
FEBUARY 25, 2025**

Town Chairman Henderson called the meeting to order at 7:00pm on Tuesday, February 25, 2025, at the Town of Brookfield Town Hall, 645 North Janacek Road, Brookfield, Wisconsin. Also present at the meeting was Town Supervisor Ryan Stanelle, Commissioners Jeremy Watson, Len Smeltzer, Kevin Riordan, and Tim Probst and Town Planner Bryce Hembrook.

**KEN KRAHE, REPRESENTING SILGAN CONTAINERS, REQUESTING APPROVAL TO
INSTALL A BACKUP GENERATOR, REPLACE EXISTING LIGHTING WITH LED FIXTURES,
AND REVIEW PROPOSED SIGNAGE BEFORE ARCHITECTURAL REVIEW COMMITTEE
REVIEW, LOCATED AT 21027 CROSSROADS CIRCLE**

Supervisor Watson moved to **recommend the Town Board approve the site plan amendment** to install a backup generator subject to rotating the generator and to replace existing lighting with LED fixtures subject to providing an updated photometric plan showing footcandles at the property line that meets code requirements.

The motion was seconded by Commissioner Probst. The motion carried.



February 11, 2025

Town of Brookfield – Plan Commission Application

RE: Silgan Containers – Back up Generator and Site Lighting Replacement

Bryce,

On behalf of Silgan Containers, please see the following documents requesting Plan Commission approval to install an exterior back up generator and to replace the existing light fixtures at the Silgan Containers facility located at 21027 Crossroads Circle in Waukesha, Wisconsin.

1. Please see the attached site plan showing the proposed location of the backup generator to the west of the south building addition. The generator will be equipped with a level 2 sound enclosure which reduces the noise of the generator under full load to an average of 75 decibels at a distance of 7 meters or 22 feet. (See the attached cut sheets for the generator and enclosure performance data.) The generator will be placed approximately 50 feet from the tree lined property line, which will further muffle the sound to the neighboring residences. Lastly, the generator runs for 30 minutes once a week during the middle of the day as test to ensure it is in good working order should it be needed due to a power failure.
2. Please see the attached site photometric plan and LED light fixture cut sheets proposed for replacement of the existing light fixtures.

Please let me know if you have any questions or need additional information. I look forward to your favorable approval of the two proposed facility improvements.

Thank you,

A handwritten signature in blue ink, appearing to read 'Ken Krahe'.

Ken Krahe, President & CEO
MSI General Corporation

Cc: Craig Benson

SG100 | 9.0L | 100 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
EPA Certified Stationary Emergency

GENERAC | **INDUSTRIAL POWER**

STANDARD FEATURES

DEMAND RESPONSE READY

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Open Set Only)

Fuel System

- NPT Fuel Connection on Frame
- Primary and Secondary Fuel Shutoff

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Amortisseur Winding
- Full Load Capacity Alternator

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby and Demand Response Rated Units)
- 1 Year Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Units Only)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

CONTROL SYSTEM



Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)

- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level

- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Low Fuel Pressure
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

CONFIGURABLE OPTIONS

DEMAND RESPONSE READY

ENGINE SYSTEM

- Engine Block Heater
- Baseframe Cover/Rodent Guard
- Oil Heater
- Air Filter Restriction Indicator
- Radiator Stone Guard (Open Set Only)
- Level 1 Fan and Belt Guards (Enclosed Units Only)

FUEL SYSTEM

- NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

GENERATOR SET

- Extended Factory Testing (3-Phase Only)
- 8 Position Load Center
- IBC Seismic Certification
- Pad Vibration Isolators

ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Enclosure Heater (with Motorized Dampers Only)
- Door Open Alarm Switch

CONTROL SYSTEM

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Indication with Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- Remote Communication - Modem
- 10A Engine Run Relay
- Ground Fault Annunciator
- Damper Kit Auxiliary Contacts (with Motorized Dampers Only)
- 100 dB Alarm Horn
- 120V GFCI and 240V Outlets

WARRANTY (Standby Gensets Only)

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Ball Valves
- Fluid Containment Pan

ALTERNATOR SYSTEM

- 3rd Breaker System

CONTROL SYSTEM

- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

GENERATOR SET

- Special Testing
- Battery Box

SG100 | 9.0L | 100 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

DEMAND RESPONSE READY

ENGINE SPECIFICATIONS

General

Make	Generac
Cylinder #	8
Type	V
Displacement - in ³ (L)	543 (8.9)
Bore - in (mm)	4.49 (114.23)
Stroke - in (mm)	4.25 (107.95)
Compression Ratio	9.9:1
Intake Air Method	Naturally Aspirated
Number of Main Bearings	5
Connecting Rods	Forged Steel
Cylinder Head	Cast Iron
Ignition	High Energy
Piston Type	Aluminum Alloy
Crankshaft Type	Forged Steel
Lifter Type	Hydraulic Roller
Intake Valve Material	Steel Alloy
Exhaust Valve Material	Stainless Steel
Hardened Valve Seats	Yes

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear Driven
Oil Filter Type	Full-Flow Spin-On Cartridge
Crankcase Capacity - qt (L)	10.0 (9.5)

Cooling System

Cooling System Type	Pressurized Closed
Fan Type	Pusher
Fan Speed - RPM	2,386
Fan Diameter - in (mm)	22 (559)

Fuel System

Fuel Type	Natural Gas, Propane Vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure - in H ₂ O (kPa)	11 - 14 (2.7 - 3.5)
Optional Operating Fuel Pressure - in H ₂ O (kPa)	7 - 11 (1.7 - 2.7)

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	40 Amps
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0130124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	<50

Standard Excitation	Synchronous Brushless
Bearings	Sealed Ball
Coupling	Direct Drive
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

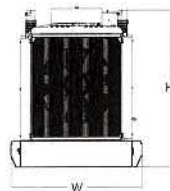
SG100 | 9.0L | 100 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency



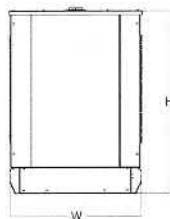
DIMENSIONS AND WEIGHTS*

DEMAND RESPONSE READY



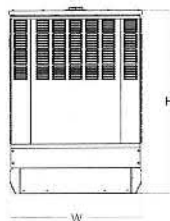
OPEN SET (Includes Exhaust Flex)

L x W x H - in (mm)	93.0 (2,362) x 40.0 (1,016) x 48.0 (1,219)
Weight - lbs (kg)	Steel: 2.245 - 2.543 (1.018 - 1.153)



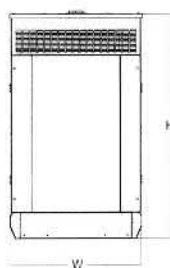
WEATHER PROTECTED ENCLOSURE

L x W x H - in (mm)	129.4 (3,287) x 40.0 (1,016) x 56.2 (1,428)
Weight - lbs (kg)	Steel: 2.774 (1.258) - 3.072 (1.393) Aluminum: 2.504 (1.136) - 2.802 (1.271)



LEVEL 1 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	129.4 (3,287) x 40.0 (1,016) x 56.2 (1,428)
Weight - lbs (kg)	Steel: 2.935 (1,331) - 3.233 (1,466) Aluminum: 2.630 (1,193) - 2.873 (1,303)



LEVEL 2 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	111.8 (2,840) x 40.0 (1,016) x 68.6 (1,742)
Weight - lbs (kg)	Steel: 3.062 (1,389) - 3.360 (1,524) Aluminum: 2.630 (1,193) - 2.928 (1,328)

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

LEVEL 2 SOUND ATTENUATED ENCLOSURE

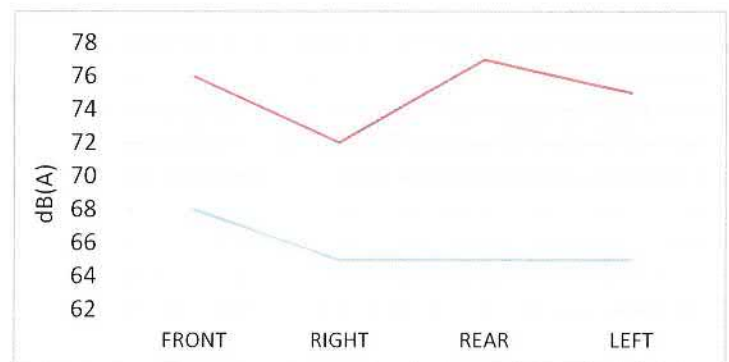
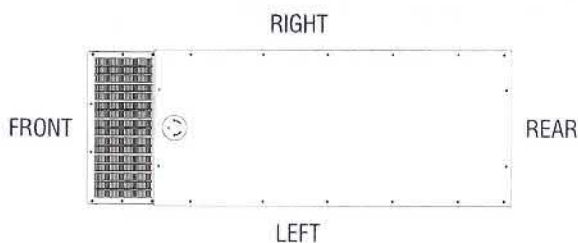
G9.0L SG100

60Hz NO-LOAD, dB(A)
DISTANCE: 7 METERS

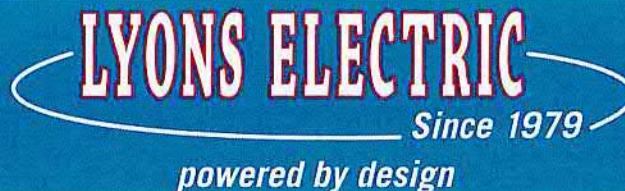
MICROPHONE LOCATION	OCTAVE BAND CENTER FREQUENCY (Hz)									
	31.5	63	125	250	500	1,000	2,000	4,000	8,000	dB(A)
FRONT	34	53	55	60	64	62	57	57	48	68
RIGHT	39	55	55	56	59	59	57	54	45	65
REAR	39	60	59	55	61	57	50	47	39	65
LEFT	39	53	55	55	59	59	55	54	45	65
AVERAGE	38	55	56	56	61	60	54	53	44	66

60Hz FULL-LOAD, dB(A)
DISTANCE: 7 METERS

MICROPHONE LOCATION	OCTAVE BAND CENTER FREQUENCY (Hz)									
	31.5	63	125	250	500	1,000	2,000	4,000	8,000	dB(A)
FRONT	39	64	74	63	66	65	58	57	47	76
RIGHT	41	61	70	59	62	60	58	55	45	72
REAR	40	64	76	61	62	58	52	49	40	77
LEFT	42	60	74	58	62	59	56	54	45	75
AVERAGE	40	62	74	60	63	61	56	53	45	75



- All positions at 23 feet (7 meters) from side faces of generator set.
- Test conducted on a 100 foot diameter asphalt surface.
- Sound pressure levels are subject to instrumentation, installation and testing conditions.
- Sound levels are ± 2 dB(A).



ELECTRICAL LIGHTING SUBMITTAL

To: MSI General
Attn: Ken Krahe

Project: Silgan
21027 crossroads circle
Brookfield, WI

Submittal Number: (1)

Division: Electrical
Specification Section: 26 51 00
Description: Product Data- Site Lighting

LYONS ELECTRIC APPROVAL STAMP

☒ **APPROVED**
☐ APPROVED AS NOTED
☐ REVISE & RESUBMIT

Please review and send this submittal back as product will not be ordered until submittal is APPROVED.

Date: July 05, 2024

By: *Kevin Konkell*
Kevin Konkell
Design/Estimating Department Manager
Designer of Engineering Systems
Certified Master Electrician
TC Lyons Electric



Project: SILGAN
Catalog #: ALF LS230 T4 G1 4K
Fixture Type: SP1
Notes: CONTRACTOR-TC LYONS ELECTRIC
BY HEIN ELECTRIC SUPPLY COMPAN

ALF G1

LED Area Light Selectable **CONTRACTOR XP**

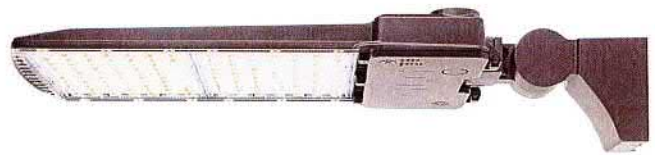
Due to continuous product improvements, specification and/or equipment updates may change without notice.



(Images are shown for illustration purposes only)



ALF Medium Selectable Area Light
(Pictured with Adjustable Pole Mount)



ALF Large Selectable Area Light
(Pictured with Adjustable Pole Mount)

SPECIFICATIONS

Housing One-piece die cast aluminum housing sealed against moisture and environmental contaminants features: PIN receptacle	Mounting Square/Round Pole and Slipfitter Mounting options.	Lumen Output Medium Area Light Field selectable: 10,000 - 23,000 Lm Large Area Light Field selectable: LS450 model: 20,000 - 45,000 Lm LS600 model: 47,000 - 60,500 Lm	Electrical Standard 120-277 VAC HVV Option 277-480 VAC 0-10 V dimming driver	Warranty 5-year limited warranty Comprehensive warranty terms can be located on www.slgus.com	Certifications UL Listed, IP65 rated, FCC compliant, Design Lights Consortium® (DLC15.1) Premium qualified product.
Ambient Temperature Suitable for use in -40°C to 45°C (-40°F to 113°F). LS600 Model: -40°C to 40°C (-40°F to 104°F).	Efficacy Up to 162 lumens per watt.		Full Cutoff Full cutoff luminaire when installed at a level 90° angle to the ground.	Optics Available in IES Type II, III, IV, and V distributions. Polycarbonate lens. Can conform to dark sky requirements.	Lifespan L70 > 72,000 hours @ 25°C
	CCT and CRI Field selectable: 3000K, 4000K, and 5000K. 70 CRI				

ORDERING GUIDE

Example: ALF LS220 T3 G1 FSK PSC ASR

Fixture	Selectable Lumen Output	Distribution	Generation	Voltage	Selectable CCT	Photocell	Included Mount	Finish SPECIFY FINISH	Controls (Optional)	Accessories
• ALF LED Area Light-Flexible	• LS230 10,000 Lm / 60 W 15,500 Lm / 85 W 20,000 Lm / 110 W 23,000 Lm / 140 W • LS450 20,000 Lm / 120 W 28,500 Lm / 180 W 38,500 Lm / 240 W 45,000 Lm / 300 W • LS600 [®] 47,000 Lm / 300 W 51,000 Lm / 320 W 56,000 Lm / 360 W 60,500 Lm / 400 W	• T2 Type II • T3 Type III • T4 Type IV • T5 Type V	• G1 First Generation	• BLANK 120-277 V • HVV* 347-480 V	• FSK 3000K 4000K 5000K • FSK [®] 4000K 5000K	PSC Ships with Photocell and Shorting Cap. BLANK Leave this blank when ordering HVV models - these do not include photocell and shorting cap.	• ASR Adjustable Square and Round Pole Mount (ships in same box) • SFD Slipfitter Mount (ships in same box) Additional mounts ship separately. • ALC-SPAR Square and Round Pole Mount • ALC-WMB Wall Mount • ALC-T Trunnion Mount	• BLANK Dark Bronze • B Black • W White • SG Silver Gray • C** Custom Color	• PC-2 Twist-lock Photocell (480V) OSLc sync • MSB-DCE-06-W-BT5.0 Bluetooth Plug-in Sensor/Controller - Photocell+PIR (MSB-20-L7-W NDI included) • MSB-DCE-06-W Bluetooth Sensor, Daylight Harvest+PIR L3 Medium Bay lens, L7 High Bay lens • FCB-DCE-02-W Bluetooth Plug-in Controller Node Standalone Controls • MS-DCE-09-W Standalone Motion Sensor • RM06 Remote controller for standalone motion sensor	• ALF-M-EGS External glare shield for ALF LS230 (available in Dark Bronze, black, silver, and white) • ALF-L-EGS External glare shield for ALF LS450 / LS600 (available in Dark Bronze, black, silver, and white) • ALF-M-HGS Housing side glare shield for ALF LS230 (available in Dark Bronze, black, silver, and white) • ALF-L-HGS Housing side glare shield for ALF LS450 / LS600 (available in Dark Bronze, black, silver, and white) • ALF-M-BLS Back light control for ALF LS230 • ALF-L-BLS Back light control for ALF LS450 / LS600

* HVV option does not ship with PIN receptacle, Photocell, shorting cap, or ASR mount.
**For a custom color, please call to place your order.
① ALF LS600 model is 4000K/5000K switch selectable.

CATALOGUE

DARK BRONZE 120-277V



Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 FSK PSC ASR	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS230 T4 G1 FSK PSC ASR	T4	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS230 T5 G1 FSK PSC ASR	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T3 G1 FSK PSC ASR	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T4 G1 FSK PSC ASR	T4	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T5 G1 FSK PSC ASR	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T3 G1 FSK PSC ASR	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T4 G1 FSK PSC ASR	T4	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T5 G1 FSK PSC ASR	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount



Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 FSK PSC SFD	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120V-277V	Included Slipfitter Mount
ALF LS450 T3 G1 FSK PSC SFD	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS230 T4 G1 FSK PSC SFD	T4	Area Light - 4 Level Wattage Adjustable, T4, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS230 T5 G1 FSK PSC SFD	T5	Area Light - 4 Level Wattage Adjustable, T5, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS450 T4 G1 FSK PSC SFD	T4	Area Light - 4 Level Wattage Adjustable, T4, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS450 T5 G1 FSK PSC SFD	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS600 T3 G1 FSK PSC SFD	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS600 T4 G1 FSK PSC SFD	T4	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS600 T5 G1 FSK PSC SFD	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Slipfitter Mount

DARK BRONZE HVU 277-480V

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 HVU FSK	T3	Area Light - 4 Level Wattage Adjustable, Gen1, High Voltage	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	277 - 480V	NOT INCLUDED
ALF LS450 T3 G1 HVU FSK	T3	Area Light - 4 Level Wattage Adjustable, Gen1, High Voltage	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	277 - 480V	NOT INCLUDED
ALF LS600 T3 G1 HVU FSK	T3	Area Light - 4 Level Wattage Adjustable, Gen1, High Voltage	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	277 - 480V	NOT INCLUDED

ALF G1



WHITE 120-277V



Adjustable Pole mount



Slipfitter mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1FSK PSC ASR W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T3 G1FSK PSC ASR W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T3 G1FSK PSC ASR W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS230 T3 G1FSK PSC SFD W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS450 T3 G1FSK PSC SFD W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount



BLACK 120-277V



Adjustable Pole mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1FSK PSC ASR B	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Black	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T3 G1FSK PSC ASR B	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Black	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T3 G1FSK PSC ASR B	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Black	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount



SILVER GREY 120-277V



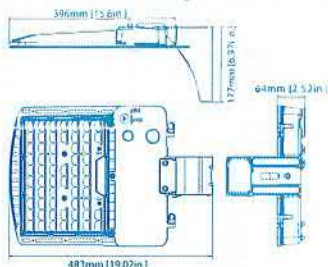
Adjustable Pole mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1FSK PSC ASR SG	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Silver Grey	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T3 G1FSK PSC ASR SG	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Silver Grey	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T3 G1FSK PSC ASR SG	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Silver Grey	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount

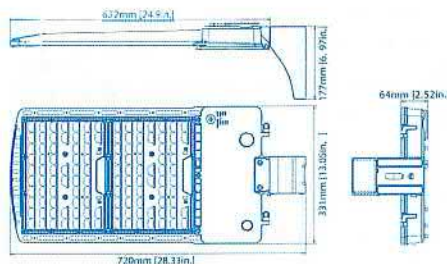
Type II and additional options available upon special request.

ALF DIMENSIONS

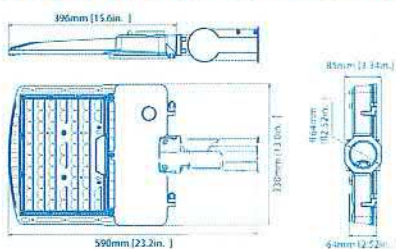
ALF LS230 W/ Adjustable Pole Mount



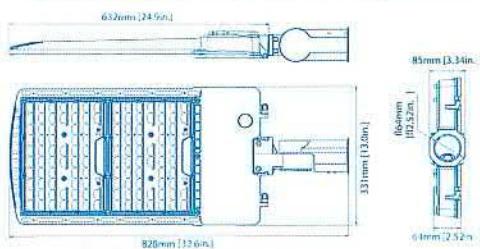
ALF LS450/LS600 W/ Adjustable Pole Mount



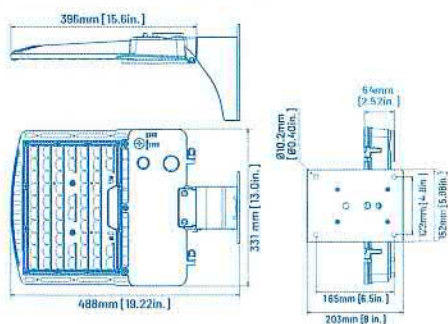
ALF LS230 W/ Adjustable Slipfitter Mount



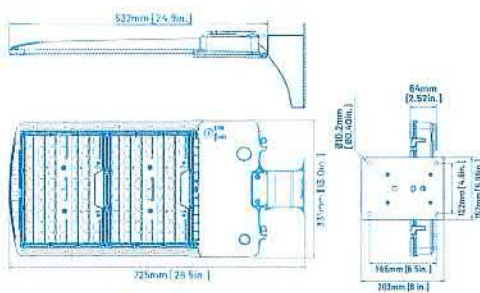
ALF LS450/LS600 W/ Adjustable Slipfitter Mount



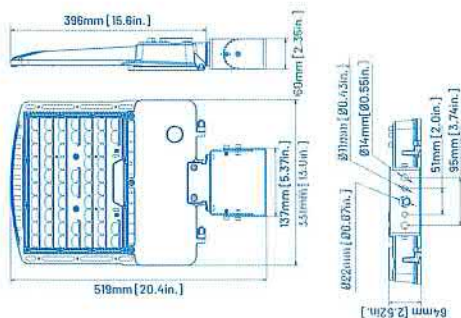
ALF LS230 W/ Wall Mount



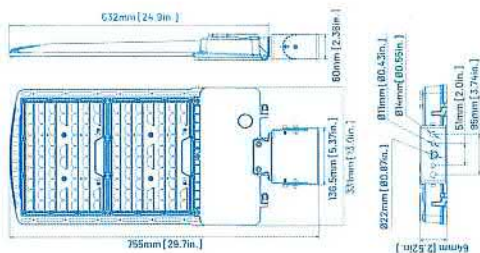
ALF LS450/LS600 W/ Wall Mount



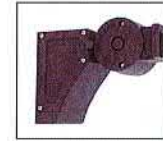
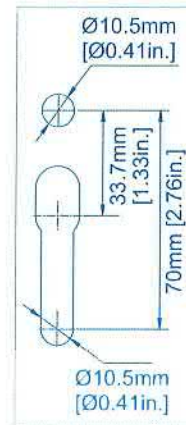
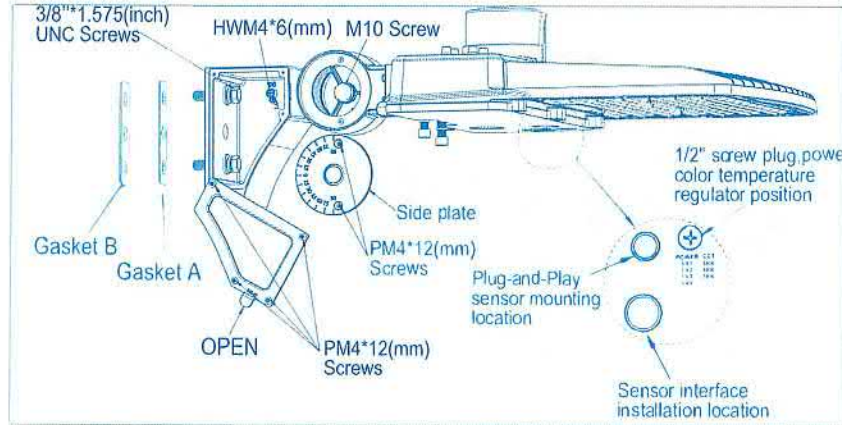
ALF LS230 W/ Trunnion Mount



ALF LS450/LS600 W/ Trunnion Mount



MOUNTING DIMENSIONS



ASR
Adjustable
Square and
Round Pole
Mount



ALC-SPAR



SFD
Slipfitter
Mount

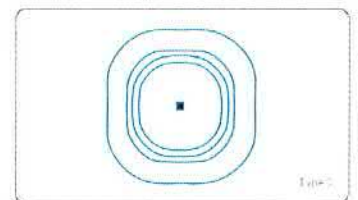
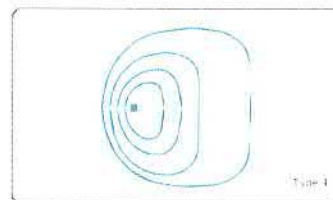
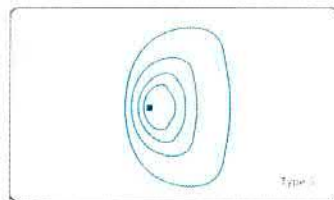
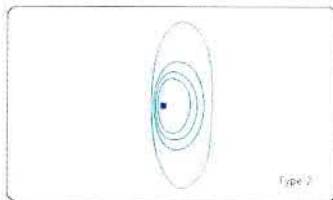


ALC-WMB



ALC-T

PHOTOMETRIC



ALF G1



ELECTRICAL LOAD

	Power Setting	Wattage	Current (A)					Current (A)	
			120V	200V	240V	277V		347V	480V
ALF LS230	Low	60 W	0.5	0.29	0.29	0.22	ALF LS230 HVU	0.17	0.13
	Med	85 W	0.71	0.41	0.41	0.31		0.24	0.18
	High	110 W	0.92	0.53	0.53	0.4		0.32	0.23
	Max	140 W	1.17	0.67	0.67	0.51		0.4	0.29
ALF LS450	Low	120 W	1	0.58	0.5	0.43	ALF LS450 HVU	0.35	0.25
	Med	180 W	1.5	0.87	0.75	0.65		0.52	0.38
	High	240 W	2	1.15	1	0.87		0.69	0.5
	Max	300 W	2.5	1.44	1.25	1.08		0.86	0.63
ALF LS600	Low	300 W	2.5	1.4	1.25	1.1	ALF LS600 HVU	0.86	0.63
	Med	320 W	2.7	1.5	1.3	1.2		0.92	0.67
	High	360 W	3	1.7	1.5	1.3		1	0.75
	Max	400 W	3.3	1.9	1.7	1.4		1.2	0.83

EPA OF AREA LIGHT

ITEM							
140W	0.3632	0.6849	0.8961	0.7264	1.0481	1.2078	1.0481
300W / 400W	0.4758	0.8091	1.059	0.9516	1.2849	1.3923	1.2849

BUG @5000K

MODEL #	SYSTEM WATTS	VOLTAGE	DIST. TYPE	B	U	G
ALF LS230 T3	140W	120-277V / 277-480V	III	3	0	3
ALF LS450 T3	300W	120-277V / 277-480V	III	4	0	4
ALF LS600 T3	400W	120-277V / 277-480V	III	5	0	5

ALF G1



PERFORMANCE

Series Number	Power Percentage	Wattage	DIST. TYPE	CRI	3000K		4000K		5000K	
					LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
ALF LS230	100%	140 W	III	70	19,200 Lm	143 Lm/W	23,000 Lm	164 Lm/W	21,000 Lm	150 Lm/W
	80%	120 W	III	70	18,000 Lm	150 Lm/W	20,000 Lm	167 Lm/W	18,500 Lm	154 Lm/W
	60%	90 W	III	70	14,000 Lm	156 Lm/W	15,500 Lm	172 Lm/W	14,500 Lm	161 Lm/W
	40%	60 W	III	70	9,700 Lm	162 Lm/W	10,600 Lm	177 Lm/W	10,000 Lm	167 Lm/W
ALF LS450	100%	300 W	III	70	41,000 Lm	137 Lm/W	45,000 Lm	150 Lm/W	42,000 Lm	140 Lm/W
	80%	240 W	III	70	35,000 Lm	146 Lm/W	38,500 Lm	160 Lm/W	36,000 Lm	150 Lm/W
	60%	180 W	III	70	28,000 Lm	156 Lm/W	30,000 Lm	167 Lm/W	28,500 Lm	158 Lm/W
	40%	120 W	III	70	19,200 Lm	160 Lm/W	21,500 Lm	179 Lm/W	20,000 Lm	167 Lm/W
ALF LS600	100%	400 W	III	70	N/A		60,500 Lm	151 Lm/W	60,000 Lm	150 Lm/W
	80%	360 W	III	70			56,000 Lm	156 Lm/W	55,000 Lm	153 Lm/W
	60%	320 W	III	70			51,000 Lm	159 Lm/W	50,000 Lm	156 Lm/W
	40%	300 W	III	70			47,000 Lm	162 Lm/W	46,000 Lm	159 Lm/W

ACCESSORIES



PSC
Twist-lock Photocell (120/277V)
with shunting cap
(ship with all 120/277V ALF models)



PC-2
Twist-lock Photocell (480V)



MSB-DCE-06-W
Bluetooth Plug-in Controller/
Sensor



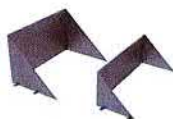
MS-DCE-09-W
Standalone Motion Sensor



FCB-DCE-02-W
Bluetooth Plug-in Node



GLARE SHIELDS



ALF-EGS
External Glare Shields



ALF-HGS
Housing Side
Glare Shields



ALF-BLS
Back light control

Catalog Number	Compatible Model	Finish
ALFM-EGS	ALF LS230	Dark Bronze
ALFM-EGS-W	ALF LS230	White
ALFM-EGS-B	ALF LS230	Black
ALFM-EGS-SG	ALF LS230	Silver Grey

Catalog Number	Compatible Model	Finish
ALFL-EGS	ALF LS450 / LS600	Dark Bronze
ALFL-EGS-W	ALF LS450 / LS600	White
ALFL-EGS-B	ALF LS450 / LS600	Black
ALFL-EGS-SG	ALF LS450 / LS600	Silver Grey

Catalog Number	Compatible Model	Finish
ALFH-HGS	ALF LS230	Dark Bronze
ALFH-HGS-W	ALF LS230	White
ALFH-HGS-B	ALF LS230	Black
ALFH-HGS-SG	ALF LS230	Silver Grey

Catalog Number	Compatible Model	Finish
ALFL-HGS	ALF LS450 / LS600	Dark Bronze
ALFL-HGS-W	ALF LS450 / LS600	White
ALFL-HGS-B	ALF LS450 / LS600	Black
ALFL-HGS-SG	ALF LS450 / LS600	Silver Grey

Catalog Number	Compatible Model
ALFM-BLS	ALF LS230
ALFL-BLS	ALF LS450 / LS600

PROJECTED LUMINAIRE MAINTENANCE

ALF LS230 G1 FSK (AT 140W)

LM-80 Testing Details	
Total number of units tested per case temp:	30
Number of failures:	0
Number of units measured:	30
Test duration (hours):	12,000
Tested drive current (mA):	120
Tested case temperature 1 (T _c , °C):	85
Tested case temperature 2 (T _c , °C):	105

Test Data for 85°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	100.10%
2,000	99.87%
3,000	99.56%
4,000	99.14%
5,000	98.66%
6,000	98.24%
7,000	97.87%
8,000	97.54%
9,000	97.26%
10,000	96.93%
11,000	96.74%
12,000	96.58%

Test Data for 105°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	99.68%
2,000	99.35%
3,000	98.90%
4,000	98.37%
5,000	97.81%
6,000	97.36%
7,000	96.94%
8,000	96.48%
9,000	96.01%
10,000	95.65%
11,000	95.10%
12,000	94.66%

Results	
Time (t) at which to estimate Lumen maintenance (hours):	50,000
Lumen maintenance at time (t) (%):	86.47%
Reported L70 (hours):	>72,000

ALF LS450 G1 FSK (AT 300W)

LM-80 Testing Details	
Total number of units tested per case temp:	30
Number of failures:	0
Number of units measured:	30
Test duration (hours):	12,000
Tested drive current (mA):	120
Tested case temperature 1 (T _c , °C):	85
Tested case temperature 2 (T _c , °C):	105

Test Data for 85°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	100.10%
2,000	99.87%
3,000	99.56%
4,000	99.14%
5,000	98.66%
6,000	98.24%
7,000	97.87%
8,000	97.54%
9,000	97.26%
10,000	96.93%
11,000	96.74%
12,000	96.58%

Test Data for 105°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	99.68%
2,000	99.35%
3,000	98.90%
4,000	98.37%
5,000	97.81%
6,000	97.36%
7,000	96.94%
8,000	96.48%
9,000	96.01%
10,000	95.65%
11,000	95.10%
12,000	94.66%

Results	
Time (t) at which to estimate Lumen maintenance (hours):	50,000
Lumen maintenance at time (t) (%):	86.47%
Reported L70 (hours):	>72,000

DLC Product ID

MODEL NUMBER	ID NUMBER
ALF LS230 T2 G1 FSK	S-SM1C0N
ALF LS230 T3 G1 FSK	S-IC8M3S
ALF LS230 T4 G1 FSK	S-CN0PL6
ALF LS230 T5 G1 FSK	S-7W51J3
ALF LS450 T2 G1 FSK	S-VGYJNP
ALF LS450 T3 G1 FSK	S-S5LOTG
ALF LS450 T4 G1 FSK	S-9ALW8H
ALF LS450 T5 G1 FSK	S-LOG3PV
ALF LS600 T2 G1 FSK	S-4YMH0H
ALF LS600 T3 G1 FSK	S-TG286H
ALF LS600 T4 G1 FSK	S-LD6LP9
ALF LS600 T5 G1 FSK	S-9YDMMJ

NOTE: ID numbers apply regardless of mount, finish color, or power type.



Project: SILGAN
Catalog #: ALF LS230 T5 G1 4K
Fixture Type: SP2
Notes: CONTRACTOR-TC LYONS ELECTRIC
BY HEIN ELECTRIC SUPPLY COMPANY

ALF G1

LED Area Light Selectable **CONTRACTOR XP**

Due to continuous product improvements, specification and/or equipment updates may change without notice.



(Images are shown for illustration purposes only)



ALF Medium Medium Selectable Area Light
(Pictured with Adjustable Pole Mount)



ALF Large Large Selectable Area Light
(Pictured with Adjustable Pole Mount)

SPECIFICATIONS

Housing

One piece, die-cast aluminum housing sealed against moisture and environmental contaminants features P/N receptacle.

Ambient Temperature

Suitable for use in -40° C to 45° C (-40° F to 113° F).
LS600 Model: -40° C to 40° C (-40° F to 104° F).

Mounting

Square/Round Pole and Slipfitter Mounting options.

Efficacy

Up to 162 lumens per watt.

CCT and CRI

Field selectable: 3000K, 4000K, and 5000K - 70 CRI

Lumen Output

Medium Area Light
Field selectable:
10,000 - 23,000 Lm
Large Area Light
Field selectable:
LS450 model: 20,000 - 45,000 Lm
LS600 model: 47,000 - 60,500 Lm

Electrical

Standard 120, 277 VAC
HVU Option 277, 480 VAC
0-10 V dimming driver.

Full Cutoff

Full cutoff luminaire when installed at a level 90° angle to the ground.

Warranty

5-year limited warranty. Comprehensive warranty terms can be located on www.slgus.com.

Optics

Available in IES Type II, II, IV, and V distributions. Polycarbonate lens. Can conform to dark sky requirements.

Certifications

UL Listed, IP65-rated, FCC compliant, Design Light's Consortium (DLC) 15.1 Premium-qualified product.

Lifespan

L70 > 72,000 hours @ 25° C

ORDERING GUIDE

Example: ALF LS220 T3 G1 FSK PSC ASR

Fixture	Selectable Lumen Output	Distribution	Generation	Voltage	Selectable CCT	Photocell	Included Mount	Finish	Controls (Optional)	Accessories
SPECIFY										
• ALF LED Area Light-Flexible	• LS230 10,000 Lm / 60 W 15,500 Lm / 85 W 20,000 Lm / 110 W 23,000 Lm / 140 W • LS450 20,000 Lm / 120 W 28,500 Lm / 180 W 38,500 Lm / 240 W 45,000 Lm / 300 W • LS600 [Ⓢ] 47,000 Lm / 300 W 51,000 Lm / 320 W 56,000 Lm / 360 W 60,500 Lm / 400 W	• T2 Type II • T3 Type III • T4 Type IV • T5 Type V	• G1 First Generation	• BLANK 120-277 V • HVU* 347-480 V	• FSK 3000K 4000K 5000K • FSK [Ⓢ] 4000K 5000K	PSC Ships with Photocell and Shorting Cap. BLANK Leave this blank when ordering HVU models - these do not include photocell and shorting cap.	• ASR Adjustable Square and Round Pole Mount (ships in same box) • SFD Slipfitter Mount (ships in same box) Additional mounts ship separately. • ALC-SPAR Square and Round Pole Mount • ALC-WMB Wall Mount • ALC-T Trunnion Mount	• BLANK Dark Bronze • B Black • W White • SG Silver Gray • C** Custom Color	• PC-2 Twist-lock Photocell (480V) OSLQ SYNC Networked Controls • MSB-DCE-06-W-BT5.0 Bluetooth Plug-in Sensor/Controller - Photocell+PIR (MSB-20-L7-W NDT included) • MSB-DCE-06-W Bluetooth Sensor, Daylight Harvest+PIR • L3 Medium Bay lens • L7 High Bay lens • FCB-DCE-02-W Bluetooth Plug-in Controller Node Standalone Controls • MS-DCE-09-W Standalone Motion Sensor • RM06 Remote controller for standalone motion sensor	• ALF-M-EGS External glare shield for ALF LS230 (available in Dark Bronze, black, silver, and white) • ALF-L-EGS External glare shield for ALF LS450 / LS600 (available in Dark Bronze, black, silver, and white) • ALF-M-HGS Housing side glare shield for ALF LS230 (available in Dark Bronze, black, silver, and white) • ALF-L-HGS Housing side glare shield for ALF LS450 / LS600 (available in Dark Bronze, black, silver, and white) • ALF-M-BLS Back light control for ALF LS230 • ALF-L-BLS Back light control for ALF LS450 / LS600

* HVU option does not ship with PIN receptacle, Photocell, shorting cap, or ASR mount.

**For a custom color, please call to place your order.

Ⓢ ALF LS600 model is 4000K/5000K switch selectable.

CATALOGUE

DARK BRONZE 120-277V



Adjustable
Pole
mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 FSK PSC ASR	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS230 T4 G1 FSK PSC ASR	T4	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS230 T5 G1 FSK PSC ASR	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T3 G1 FSK PSC ASR	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T4 G1 FSK PSC ASR	T4	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T5 G1 FSK PSC ASR	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T3 G1 FSK PSC ASR	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T4 G1 FSK PSC ASR	T4	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T5 G1 FSK PSC ASR	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount



Slipfitter
mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 FSK PSC SFD	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120V-277V	Included Slipfitter Mount
ALF LS450 T3 G1 FSK PSC SFD	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS230 T4 G1 FSK PSC SFD	T4	Area Light - 4 Level Wattage Adjustable, T4, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS230 T5 G1 FSK PSC SFD	T5	Area Light - 4 Level Wattage Adjustable, T5, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS450 T4 G1 FSK PSC SFD	T4	Area Light - 4 Level Wattage Adjustable, T4, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS450 T5 G1 FSK PSC SFD	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS600 T3 G1 FSK PSC SFD	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS600 T4 G1 FSK PSC SFD	T4	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS600 T5 G1 FSK PSC SFD	T5	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Slipfitter Mount

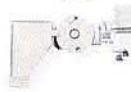
DARK BRONZE HVU 277-480V

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 HVU FSK	T3	Area Light - 4 Level Wattage Adjustable, Gen1, High Voltage	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	277 - 480V	NOT INCLUDED
ALF LS450 T3 G1 HVU FSK	T3	Area Light - 4 Level Wattage Adjustable, Gen1, High Voltage	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	277 - 480V	NOT INCLUDED
ALF LS600 T3 G1 HVU FSK	T3	Area Light - 4 Level Wattage Adjustable, Gen1, High Voltage	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	277 - 480V	NOT INCLUDED

ALF G1



WHITE 120-277V



Adjustable Pole mount



Slipfitter mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 FSK PSC ASR W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T3 G1 FSK PSC ASR W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T3 G1 FSK PSC ASR W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS230 T3 G1 FSK PSC SFD W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount
ALF LS450 T3 G1 FSK PSC SFD W	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, White	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Slipfitter Mount



BLACK 120-277V



Adjustable Pole mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 FSK PSC ASR B	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Black	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T3 G1 FSK PSC ASR B	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Black	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T3 G1 FSK PSC ASR B	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Black	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount



SILVER GREY 120-277V



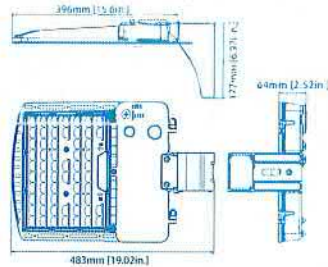
Adjustable Pole mount

Catalog Number	Dist.	Description	Lumens	Watts	CCT	Voltage	Mount
ALF LS230 T3 G1 FSK PSC ASR SG	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Silver Grey	Selectable 10,000 - 23,000 Lm	Selectable 60 - 140W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS450 T3 G1 FSK PSC ASR SG	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Silver Grey	Selectable 20,000 - 45,000 Lm	Selectable 120 - 300W	Selectable 3000K - 5000K	120-277V	Included Adjustable Pole Mount
ALF LS600 T3 G1 FSK PSC ASR SG	T3	Area Light - 4 Level Wattage Adjustable, Gen1, With 3 Pin Photocell & Shorting Cap, Silver Grey	Selectable 47,000 - 60,500 Lm	Selectable 300 - 400W	Selectable 4000K - 5000K	120-277V	Included Adjustable Pole Mount

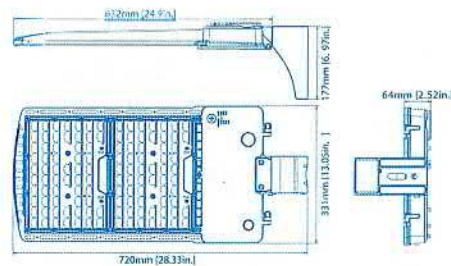
Type II and additional options available upon special request.

ALF DIMENSIONS

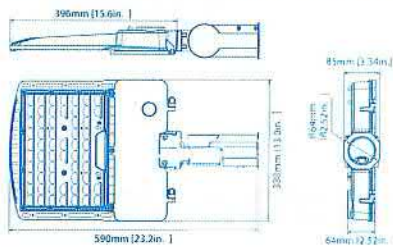
ALF LS230 W/ Adjustable Pole Mount



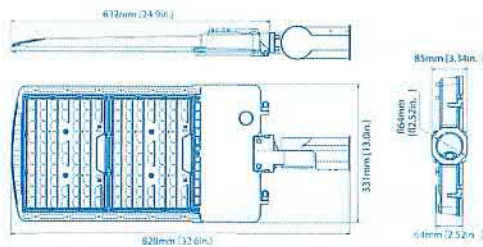
ALF LS450/LS600 W/ Adjustable Pole Mount



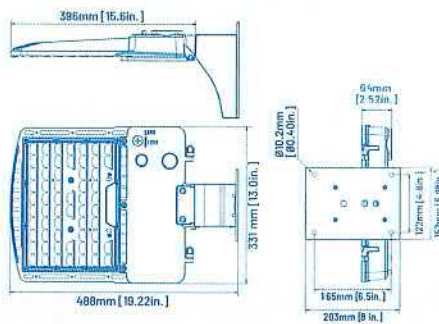
ALF LS230 W/ Adjustable Slipfitter Mount



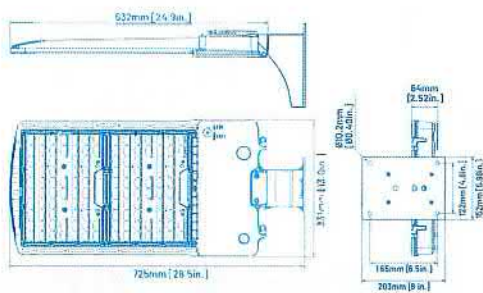
ALF LS450/LS600 W/ Adjustable Slipfitter Mount



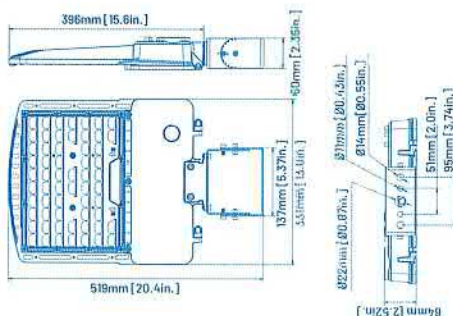
ALF LS230 W/ Wall Mount



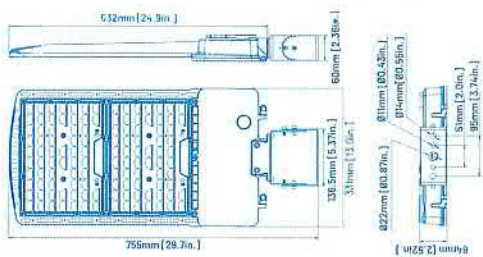
ALF LS450/LS600 W/ Wall Mount



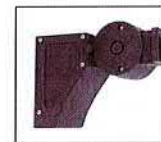
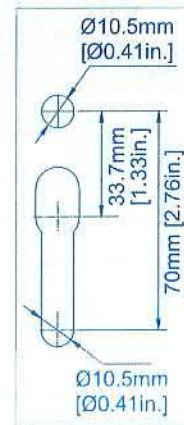
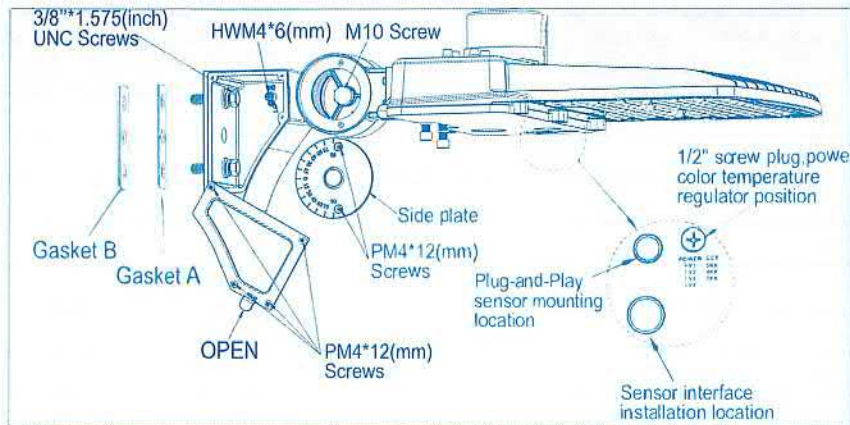
ALF LS230 W/ Trunnion Mount



ALF LS450/LS600 W/ Trunnion Mount



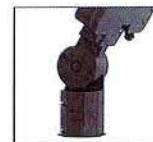
MOUNTING DIMENSIONS



ASR
Adjustable
Square and
Round Pole
Mount



ALC-SPAR



SFD
Slipfitter
Mount

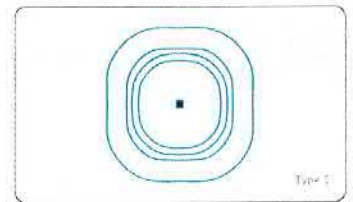
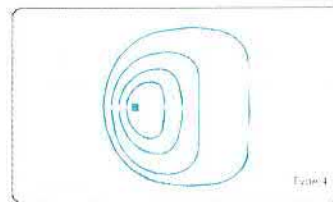
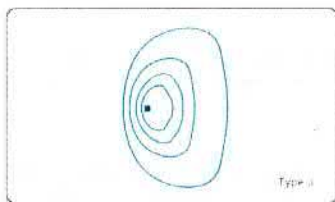
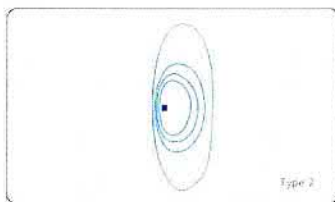


ALC-WMB



ALC-T







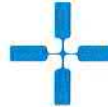
PHOTOMETRIC



ELECTRICAL LOAD

	Power Setting	Wattage	Current (A)					Current (A)	
			120V	208V	240V	277V		347V	480V
ALF LS230	Low	60 W	0.5	0.29	0.29	0.22	ALF LS230 HVU	0.17	0.13
	Med	85 W	0.71	0.41	0.41	0.31		0.24	0.18
	High	110 W	0.92	0.53	0.53	0.4		0.32	0.23
	Max	140 W	1.17	0.67	0.67	0.51		0.4	0.29
ALF LS450	Low	120 W	1	0.58	0.5	0.43	ALF LS450 HVU	0.35	0.25
	Med	180 W	1.5	0.87	0.75	0.65		0.52	0.38
	High	240 W	2	1.15	1	0.87		0.69	0.5
	Max	300 W	2.5	1.44	1.25	1.08		0.86	0.63
ALF LS600	Low	300 W	2.5	1.4	1.25	1.1	ALF LS600 HVU	0.86	0.63
	Med	320 W	2.7	1.5	1.3	1.2		0.92	0.67
	High	360 W	3	1.7	1.5	1.3		1	0.75
	Max	400 W	3.3	1.9	1.7	1.4		1.2	0.83

EPA OF AREA LIGHT

ITEM							
140W	0.3632	0.6849	0.8861	0.7264	1.0481	1.2078	1.0481
300W / 400W	0.4758	0.8091	1.059	0.9516	1.2849	1.3923	1.2849

BUG @5000K

MODEL #	SYSTEM WATTS	VOLTAGE	DIST. TYPE	B	U	G
ALF LS230 T3	140W	120-277V / 277-480V	III	3	0	3
ALF LS450 T3	300W	120-277V / 277-480V	III	4	0	4
ALF LS600 T3	400W	120-277V / 277-480V	III	5	0	5

ALF G1



PERFORMANCE

Series Number	Power Percentage	Wattage	DIST. TYPE	CRI	3000K		4000K		5000K	
					LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
ALF LS230	100%	140 W	III	70	19,200 Lm	143 Lm/W	23,000 Lm	164 Lm/W	21,000 Lm	150 Lm/W
	80%	120 W	III	70	18,000 Lm	150 Lm/W	20,000 Lm	167 Lm/W	18,500 Lm	154 Lm/W
	60%	90 W	III	70	14,000 Lm	156 Lm/W	15,500 Lm	172 Lm/W	14,500 Lm	161 Lm/W
	40%	60 W	III	70	9,700 Lm	162 Lm/W	10,600 Lm	177 Lm/W	10,000 Lm	167 Lm/W
ALF LS450	100%	300 W	III	70	41,000 Lm	137 Lm/W	45,000 Lm	150 Lm/W	42,000 Lm	140 Lm/W
	80%	240 W	III	70	35,000 Lm	146 Lm/W	38,500 Lm	160 Lm/W	36,000 Lm	150 Lm/W
	60%	180 W	III	70	28,000 Lm	156 Lm/W	30,000 Lm	167 Lm/W	28,500 Lm	158 Lm/W
	40%	120 W	III	70	19,200 Lm	160 Lm/W	21,500 Lm	179 Lm/W	20,000 Lm	167 Lm/W
ALF LS600	100%	400 W	III	70	N/A		60,500 Lm	151 Lm/W	60,000 Lm	150 Lm/W
	80%	360 W	III	70			56,000 Lm	156 Lm/W	55,000 Lm	153 Lm/W
	60%	320 W	III	70			51,000 Lm	159 Lm/W	50,000 Lm	156 Lm/W
	40%	300 W	III	70			47,000 Lm	162 Lm/W	46,000 Lm	159 Lm/W

ACCESSORIES



PSC
Twist-lock Photocell (120-277V)
with shorting cap
(ship with all 120-277V ALF models)



PC-2
Twist-lock Photocell (480V)



MSB-DCE-06-W
Bluetooth Plug-in Controller/
Sensor



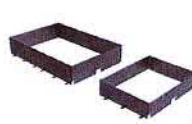
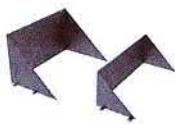
MS-DCE-09-W
Standalone Motion Sensor



FCB-DCE-02-W
Bluetooth Plug-in Node



GLARE SHIELDS



ALF-EGS
External Glare Shields

Catalog Number	Compatible Model	Finish
ALFM-EGS	ALFLS230	Dark Bronze
ALFM-EGS-W	ALFLS230	White
ALFM-EGS-B	ALFLS230	Black
ALFM-EGS-SG	ALFLS230	Silver Grey
Catalog Number	Compatible Model	Finish
ALFL-EGS	ALFLS450 / LS600	Dark Bronze
ALFL-EGS-W	ALFLS450 / LS600	White
ALFL-EGS-B	ALFLS450 / LS600	Black
ALFL-EGS-SG	ALFLS450 / LS600	Silver Grey

ALF-HGS
Housing Side
Glare Shields

Catalog Number	Compatible Model	Finish
ALFH-HGS	ALFLS230	Dark Bronze
ALFH-HGS-W	ALFLS230	White
ALFH-HGS-B	ALFLS230	Black
ALFH-HGS-SG	ALFLS230	Silver Grey
Catalog Number	Compatible Model	Finish
ALFL-HGS	ALFLS450 / LS600	Dark Bronze
ALFL-HGS-W	ALFLS450 / LS600	White
ALFL-HGS-B	ALFLS450 / LS600	Black
ALFL-HGS-SG	ALFLS450 / LS600	Silver Grey

ALF-BLS
Back light control

Catalog Number	Compatible Model
ALFM-BLS	ALFLS230
ALFL-BLS	ALFLS450 / LS600

PROJECTED LUMINAIRE MAINTENANCE

ALF LS230 G1 FSK (AT 140W)

LM-80 Testing Details	
Total number of units tested per case temp:	30
Number of failures:	0
Number of units measured:	30
Test duration (hours):	12,000
Tested drive current (mA):	120
Tested case temperature 1 (T _c , °C):	85
Tested case temperature 2 (T _c , °C):	105

Test Data for 85°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	100.10%
2,000	99.87%
3,000	99.56%
4,000	99.14%
5,000	98.66%
6,000	98.24%
7,000	97.87%
8,000	97.54%
9,000	97.26%
10,000	96.93%
11,000	96.74%
12,000	96.58%

Test Data for 105°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	99.68%
2,000	99.35%
3,000	98.90%
4,000	98.37%
5,000	97.81%
6,000	97.36%
7,000	96.94%
8,000	96.48%
9,000	96.01%
10,000	95.65%
11,000	95.10%
12,000	94.66%

Results	
Time (t) at which to estimate Lumen maintenance (hours):	50,000
Lumen maintenance at time (t) (%):	86.47%
Reported L70 (hours):	>72,000

ALF LS450 G1 FSK (AT 300W)

LM-80 Testing Details	
Total number of units tested per case temp:	30
Number of failures:	0
Number of units measured:	30
Test duration (hours):	12,000
Tested drive current (mA):	120
Tested case temperature 1 (T _c , °C):	85
Tested case temperature 2 (T _c , °C):	105

Test Data for 85°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	100.10%
2,000	99.87%
3,000	99.56%
4,000	99.14%
5,000	98.66%
6,000	98.24%
7,000	97.87%
8,000	97.54%
9,000	97.26%
10,000	96.93%
11,000	96.74%
12,000	96.58%

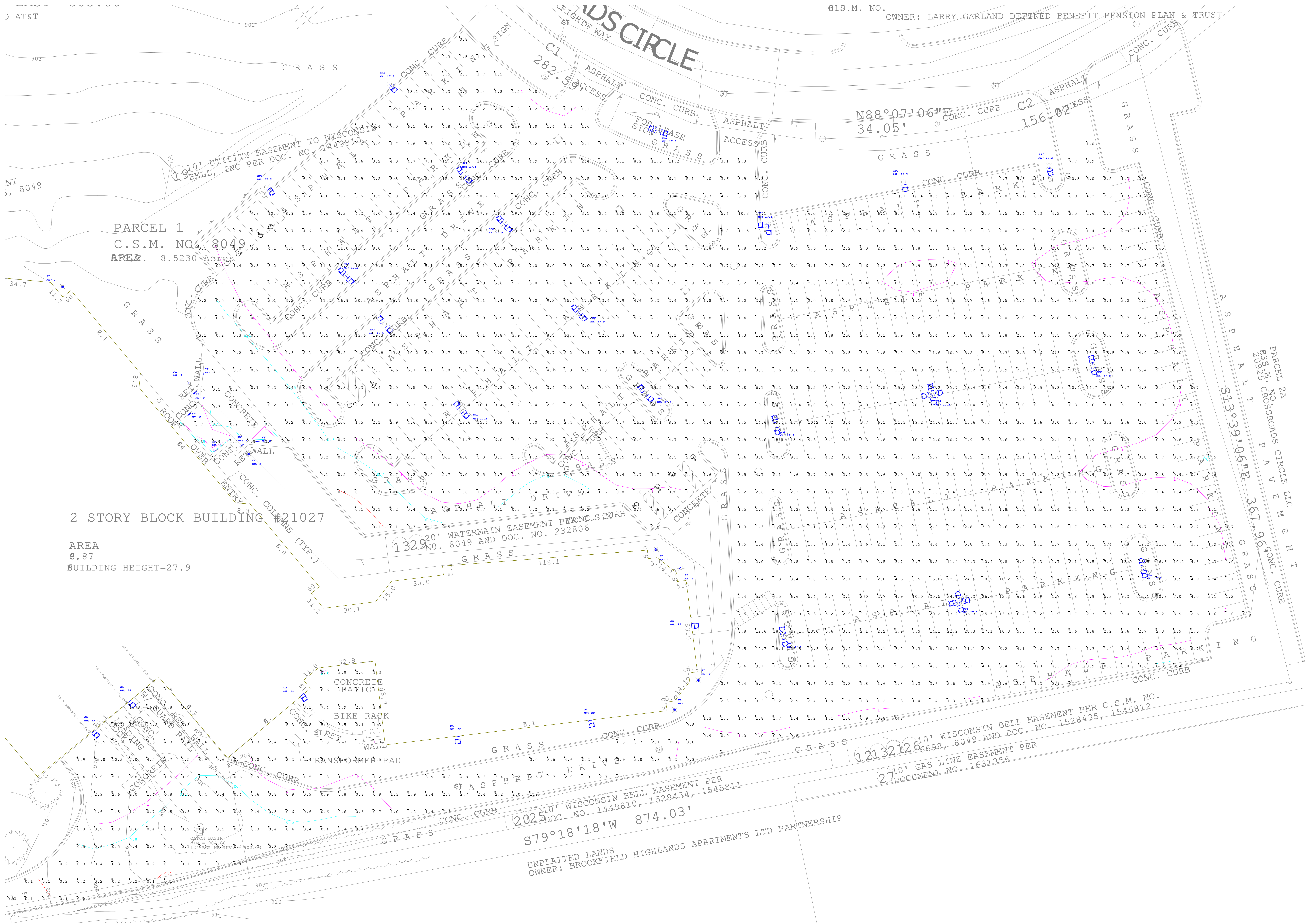
Test Data for 105°C Case Temp	
Time (hours)	Lumen Maintenance (%)
0	100.00%
1,000	99.68%
2,000	99.35%
3,000	98.90%
4,000	98.37%
5,000	97.81%
6,000	97.36%
7,000	96.94%
8,000	96.48%
9,000	96.01%
10,000	95.65%
11,000	95.10%
12,000	94.66%

Results	
Time (t) at which to estimate Lumen maintenance (hours):	50,000
Lumen maintenance at time (t) (%):	86.47%
Reported L70 (hours):	>72,000

DLC Product ID

MODEL NUMBER	ID NUMBER
ALF LS230 T2 G1 FSK	S-SM1C0N
ALF LS230 T3 G1 FSK	S-IC8M3S
ALF LS230 T4 G1 FSK	S-CN0PL6
ALF LS230 T5 G1 FSK	S-7W51J3
ALF LS450 T2 G1 FSK	S-VGYJNP
ALF LS450 T3 G1 FSK	S-S5L0TG
ALF LS450 T4 G1 FSK	S-9ALW8H
ALF LS450 T5 G1 FSK	S-LOG3PV
ALF LS600 T2 G1 FSK	S-4YMH0H
ALF LS600 T3 G1 FSK	S-TG286H
ALF LS600 T4 G1 FSK	S-LD6LP9
ALF LS600 T5 G1 FSK	S-9YDMMJ

NOTE: ID numbers apply regardless of mount, finish color, or power type.



- Standard Reflectance of 80/50/20 unless noted otherwise
- Not a Construction Document, for Design purposes only
- Standard indoor calc points @ 30" A.F.F. unless noted otherwise
- Standard outdoor calc points @ Grade unless noted otherwise
- Egress calc points @ 0' A.F.F.
- Mlazar Associates assumes no responsibility for installed light levels due to field conditions, etc.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
DRIVE LANE AND LOADING DOCK	Illuminance	Fc	2.45	19.8	0.0	N.A.	N.A.
MAIN ENTRY	Illuminance	Fc	0.87	3.7	0.0	N.A.	N.A.
SITE	Illuminance	Fc	5.05	37.6	0.1	50.50	376.00

Luminaire Schedule								
Symbol	Qty	Label	Manufacturer	Description	Arrangement	Lum. Lumens	Lum. Watts	LLF
	8	FL		FDCX 180 G1 4K	Single	17730	135.1	0.900
	6	OA		ALF LS230 T4 G1 4K WALL MOUNT	Single	23068	140.4	0.900
	4	SP1		ALF LS230 T4 G1 4K	Single	23068	140.4	0.900
	12	SP2		ALF LS230 T5 G1 4K	Back-Back	23566	140.21	0.900
	1	SP3		ALF LS230 T5 G1 4K	2 @ 90 degrees	23566	140.21	0.900
	2	SP4		ALF LS230 T5 G1 4K	4 @ 90 Degrees	23566	140.21	0.900
	6	ST		SL650L	Single	708	12.4952	0.900

Revisions			
#	Date	Comments	



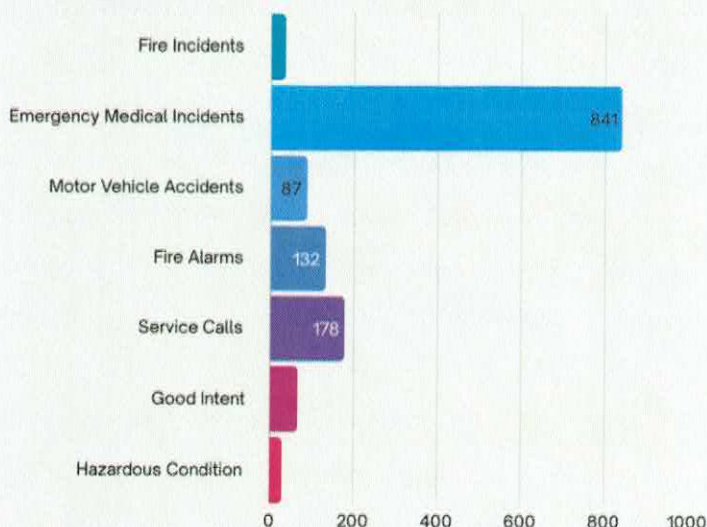
TOWN OF BROOKFIELD FIRE DEPARTMENT 2024 IN REVIEW



Chief Andrew Smerz retires after 18 years of dedicated service to our community

2024 Incidents

1367



36% increase in fire specific responses.



Commercial Inspections Completed



TBFD Organizational Structure

Firefighter/Emergency Medical Technicians (17)
Firefighter/Paramedics (14)
Lieutenants (7)
Captains (3)
Asst. Chief
Fire Chief

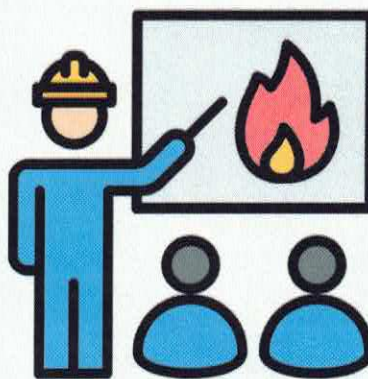
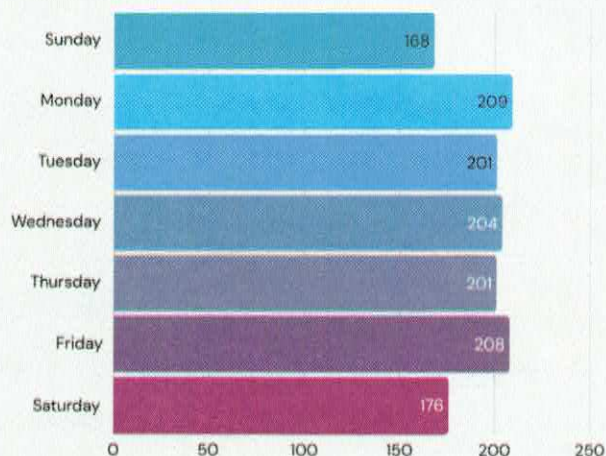


Response Time Averages

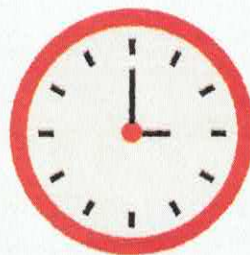
Alarm to First En Route
0:47 Seconds

First En Route to First on Scene
4:05 Minutes

Incidents by Day of the Week



7351 Combined
Hours of EMS
and Fire
Training.
73% Increase
from 2023



62%
of incidents occur
6 a.m. and 6 p.m.

Large Loss Fires



- Oscars Frozen Custard Restaurant
- Residential Home Watertown Road
- Multi-Family Building George Hunt Circle



2025 Incident Count
Forecast

14%



Cause of
Residential
Structure Fires



Electrical
Arcing



Follow us at "Town of
Brookfield Fire
Department"

Top 4 Property Types Where Incidents Occur



Multi-Family
Property

25%



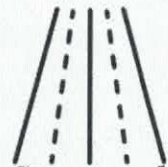
Nursing Home
Property

23.4%



1-2 Family
Property

15.3%



Street and
Highways

10.6%



87%

of EMS Incidents
are Advanced Level
Care

Budget

FY 24 Budget
\$1,576,053

FY 24 Actual
\$1,464,223



835

Patients
Transported to
Medical Facilities



Day Shift

788 (58%) Incidents



Night Shift

579 (42%) Incidents

2025 Goals

- New Ambulance In-Service by End Q2 2025
- Increase Fire Code Compliance by 4% by End of 2025
- Hire 5 New Part-time FF's by End of Q3 2025
- Send two EMT-Basics to Paramedic School

Top 3 Fire Inspection Violations



Fire Extinguisher Inspection
Required



Emergency Lighting not
Operational



Exit Sign (s) Not Operational

10.6%



of Incidents
occurred at the
same time