

THE CORPORATION OF THE TOWN OF AMHERSTBURG
BY-LAW NO. 2019-085

By-law to authorize the execution of a Development Agreement
between 1137137 Ontario Ltd. and
the Corporation of the Town of Amherstburg
15 Renaud Street, Amherstburg

WHEREAS under Section 8 of the Municipal Act 2001, S.O., 2001, c. 25, as amended, a municipality has the capacity, rights, powers and privileges of a natural person for the purpose of exercising its authority under this or any other Act.

AND WHEREAS under Section 9. (1) (a) and (b) of the Municipal Act 2001, S.O., 2001, c. 25, as amended, Section 8 shall be interpreted broadly so as to confer broad authority on municipalities to enable them to govern their affairs as they consider appropriate and to enhance their ability to respond to municipal issues;

AND WHEREAS the Corporation of the Town of Amherstburg and the Owner have agreed to the site plan and elevations in the Development Agreement;

AND WHEREAS the Corporation of the Town of Amherstburg and owners of said property have agreed to the terms and conditions of a Development Agreement in the form annexed hereto;

NOW THEREFORE the Corporation of the Town of Amherstburg enacts as follows:

1. THAT the Mayor and Clerk be hereby authorized to enter into a Development Agreement between 1137137 Ontario Ltd. and the Corporation of the Town of Amherstburg for the development of vacant land at 15 Renaud Street for the construction of a mixed use building, said agreement affixed hereto;
2. THAT this By-law shall come into force and take effect immediately upon the final passing thereof at which time all by-laws that are inconsistent with the provisions of this by-law and the same are hereby amended insofar as it is necessary to give effect to the provisions of this by-law.

Read a first, second and third time and finally passed this 25th day of November, 2019.



MAYOR – ALDO DICARLO



CLERK – PAULA PARKER

DEVELOPMENT AGREEMENT

THIS AGREEMENT made in quadruplicate this 25th day of November, 2019.

BETWEEN: **1137137 ONTARIO LTD.**
A corporation incorporated pursuant to and subsisting under the laws of the Province of Ontario

(Hereinafter collectively called "**Owner**")

OF THE FIRST PART;

- and -

THE CORPORATION OF THE TOWN OF AMHERSTBURG

(hereinafter called the "**Corporation**")

OF THE SECOND PART;

Hereinafter collectively referred to as the "**Parties**"

WHEREAS the lands affected by this Agreement are described in Schedule "A" attached hereto, and are hereinafter referred to as the "**Development Lands**";

AND WHEREAS 1137137 Ontario Ltd. warrants they are the registered owner of the Lands outlined in Schedule "A";

AND WHEREAS, in this Agreement the "**Owner**" includes an individual, an association, a partnership or corporation and, wherever the singular is used therein, it shall be construed as including the plural;

AND WHEREAS the Official Plan in effect in Amherstburg designated parts of the area covered by the Official Plan, including the Lands, as a Site Plan Control area;

AND WHEREAS the Owner intends to develop the said lands for a mixed use development in accordance with the Site Plan attached hereto as Schedules "B", and hereinafter referred to as the "Site Plan";

AND WHEREAS the Corporation, as a condition of development of the said lands requires the Owner to enter into a Development Agreement;

NOW THEREFORE THIS AGREEMENT WITNESSETH that in consideration of the premises, along with the sum of FIVE (\$5.00) DOLLARS of lawful money of Canada, now paid by each of the Parties hereto to each of the other parties hereto, the receipt and sufficiency of which are hereby acknowledged, the Owner hereby covenants and agrees with the Corporation as follows:

1. The following Schedules attached hereto, are hereby made a part of this Agreement, as fully and to all intents and purposes as though recited in full herein:
2. Schedule "A" hereto describes the lands affected by this Agreement;
3. Schedule "B", identified as A1.1, the Site Plan hereto shows:
 - (a) The location of all buildings and structures to be erected;

- (b) The location and provision of off-street vehicular loading and parking facilities and access driveways including driveways for emergency vehicles;
 - (c) Walkways and all other means of pedestrian access;
 - (d) The location and provision for the collection and storage of garbage and other waste materials;
4. Schedule "C" identified as A1.2 and A1.3, hereto shows:
- (e) Site Floor Plans
5. Schedule "D" identified as A3.1, hereto shows:
- (f) Architectural Elevations
6. Schedule "E" identified as A4.1, hereto shows:
- (g) Sections
7. Schedule "F" identified as S1.1 Plan, hereto shows:
- (h) Foundation Plan
8. Schedule "G" identified as Figure 1 Site Servicing and Grading Plan, hereto shows:
- (i) Site Servicing and Grading Plan
9. Schedule "H" identified as Lighting Plan, hereto shows:
- (j) Lighting Fixture details
10. The Owner shall be responsible for consulting with and obtaining any necessary approvals from Essex Power regarding any matters that relate to services for the Development Lands to be provided by Essex Power. In addition, the Owner shall be responsible for any costs associated with the reconstruction, relocation or changes to the hydro system resulting from this development.
11. The Owner shall be responsible for consulting with and obtaining any necessary approvals from Union Gas and Bell Canada regarding any matters that relate to services to be provided by Union Gas and Bell Canada. In addition, the Owner shall be responsible for any costs associated with the reconstruction, relocation or changes to these services resulting from this development.
12. If any proposed upgrades to the existing utilities within the municipal right-of-way are required, the Owner must provide copies of the plans on any utility work to the satisfaction of the Corporation.
13. The Owner shall be responsible for consulting with and obtaining any necessary approvals from the Ministry of the Environment, Conservation and Parks, the Essex Region Conservation Authority (ERCA) and the County of Essex Engineering Department, as necessary. A copy of all approvals/permits must be provided to the Engineering and Public Works department.
14. All of the exterior walls of the building shall be as per the elevation drawings as shown on Schedules "D" hereto.
15. All parking or loading areas and lanes and driveways shall be paved with concrete, asphalt or other material capable of permitting accessibility under all climatic conditions, as shown on Schedule "B" and together with crushed stone or

gravel, having a combined depth of at least 15.2 cm and with provisions for drainage facilities.

16. The Owner shall maintain a minimum of parking spaces, as designated on Schedule "B".
17. All walkways on the said lands, where so designated on Schedule "B", shall be constructed of concrete, asphalt or other material capable of permitting accessibility under all climatic conditions by the Owner to the satisfaction of the Corporation. To ensure that this development is accessible to persons with disabilities, the Owner acknowledges that all sidewalks, walkways and islands within this development shall be constructed in such a manner as to safely accommodate persons with special mobility needs.
18. If any curbs, sidewalks, boulevards or highway surfaces of the Corporation are damaged during the development by the Owner, such damage shall be repaired or replaced by the Owner.
19. Snow removal from the parking or loading areas and lanes, driveways and walkways shall be the responsibility of the Owner.
20. Any garbage or refuse that is stored outside shall be stored in a non-combustible container and maintained so that the garbage or refuse does not blow or fall out of the container.
21. The Owner shall, at their own expense, install and implement any and all stormwater quality and quantity management measures so identified in the said servicing plans which measures must be implemented or installed to the satisfaction of the E.R.C.A. and the Corporation. The Owners shall obtain any and all permits necessary from the E.R.C.A. if required, prior to the commencement of any construction or site alteration activities on the subject lands, including placement and the grading of fill material.
22. Any and all lighting shall be installed and maintained in accordance with the standards set out in the Town's Development Manual, and, so as to not, in the opinion of the Corporation, interfere with the use or enjoyment of adjacent properties or with the safe flow of traffic on abutting or adjacent streets.
23. All connections to the Town's existing infrastructure must be submitted to the Engineering and Public Works Department for approval. Installation shall be coordinated and inspected by the Engineering and Public Works Department. This would include any watermain, water service, sanitary or storm installations as necessary.
24. The Owner agrees that any Municipal property, including without limiting the generality of the foregoing, curbs, gutters, pavements, sidewalks, or landscaped areas on the public highway and any property belonging to a third party, which are damaged during construction or otherwise, shall be restored to the satisfaction of the Town. The Owner shall keep the subject lands in a state of good repair (including the cutting of weeds) and upon written notice from the Town shall correct deficiencies in the state of repair within ten (10) days thereof.
25. The Owner shall landscape and maintain in plants and ground cover acceptable to the Corporation those lands so indicated on Schedule "B". The Owner agrees that the site will be inspected on an annual basis and any deficiencies will require immediate correction in accordance with the Site Plan.
26. All driveways for emergency vehicles shall:

- 1) Be connected with a public thoroughfare;
 - 2) Be designed and constructed to support expected loads imposed by firefighting equipment;
 - 3) Be surfaced with concrete, asphalt or other material capable of permitting accessibility under all climatic conditions;
 - 4) Have a clear width of 3 metres at all times;
 - 5) Be located not less than 3 metres and not more than 15.2 metres measured horizontally and at right angles from the face of the building;
 - 6) Have an overhead clearance not less than 4.5 metres;
 - 7) Have a change in gradient of not more than 1 in 12.5 over a minimum distance of 15.2 metres; and
 - 8) Have approved signs displayed to indicate the emergency route.
27. If the Ontario Building Code requires that an architect or professional engineer or both shall be responsible for the field review of any new building or re-development provided for in this Agreement, the Owner shall not occupy or use or permit to be occupied or used any said new building or extension until after an architect or professional engineer has given to the Corporation a letter addressed to the Corporation and signed by him certifying that all services on or in the said lands, required for this development or redevelopment, newly installed by the Owner in connection with this development or redevelopment and not contained within a building, have been installed and completed in a manner satisfactory to the architect or professional engineer.
28. The Corporation through its servants, officers and agents including its building inspector, plumbing inspector, fire chief and Director of Engineering and Public Works may from time to time and at any time enter on the Lands to inspect:
- 1) The progress of development;
 - 2) The state of maintenance as provided for in this Agreement.
29. In the event of any servant, officer or agent of the Corporation determining upon inspection that the development is not proceeding in strict accord with the plans and specifications filed with the Corporation, such servant, officer or agent shall forthwith place a notice requiring all work to be stopped upon the Lands, and shall forward a copy by registered mail to the Owner at his last address as shown by the revised assessment rolls, and the Owner shall forthwith correct the deficiency or deviation as hereinafter provided.
30. In the event of any servant, officer or agent of the Corporation upon inspection being of the opinion that the state of maintenance is not satisfactory, such servant, officer or agent shall forthwith forward notice of such opinion to the Owner by registered mail at his last address as shown from the revised assessment rolls, and the Owner shall forthwith correct the deficiency or appeal to Council of the Corporation as hereinafter provided.
31. In the event that an Owner should disagree with the opinion of the servant, officer or agent of the Corporation as to the progress of the development or as to the state of maintenance, such Owner shall appear before Council of the Corporation, which after hearing the Owner, shall be permitted to express its position as to whether such progress or maintenance is satisfactory, following which Council of the Corporation shall make a decision, by resolution, as to whether to lift or sustain the prior decision of the Corporation's servant, officer or agent, which shall constitute a final determination of the matter.

32. In the event that an Owner should fail to obey a stop work order issued under this agreement hereof, the Owner recognizes the right of the Corporation to apply to the Courts for a restraining order.
33. In the event that an Owner should fail to obey a stop work order issued under Section 30 hereof, in addition to any other remedy, the Owner recognizes the right of the Corporation to apply to the Court for an Order granting injunctive relief, both interlocutory and permanent. The Owner acknowledges and admits that its failure to obey a stop work order constitutes irreparable harm to the Corporation and that the balance of convenience favours granting such injunctive relief without further proof thereof by the Corporation. The Owner shall be liable to the Corporation for all costs in relation to obtaining such an Order, including all legal costs. The costs shall be deemed to be municipal taxes and to be recoverable in accordance with Section 43 of this Agreement.
34. In the event that an Owner should fail to correct a deviation of deficiency after notice pursuant to Sections 30 or 31 or after notice of an opinion, which Council of the Corporation determines is correct under Section 32, the Council of the Corporation may direct the Owner to correct any default of the matter or thing being done by the Owner, not less than two (2) weeks after notice is sent by regular mail at the last known address of the Owner pursuant to the revised assessment rolls of passage of such by-law, that such matter or thing be done by the Corporation at the expense of the Owner, which expense shall be deemed to be municipal taxes and to be recoverable in accordance with Section 43 of this Agreement.
35. In the event of an Owner wishing to change at any time any of the buildings, structures or facilities described in the plans annexed or referred to in Section 1 hereof, it shall make application to Council of the Corporation for approval and shall not proceed with such change until approval is given by such Council, or in default by the Local Planning Appeal Tribunal, under the procedure set out in Section 41 of the Planning Act, R.S.O. 1990 herebefore referred to.
36. This Agreement and the provisions thereof do not give to the Owner or any person acquiring any interest in the said lands any rights against the Corporation with respect to the failure of the Owner to perform or fully perform any of its obligations under this Agreement or any negligence of the Owner in its performance of the said obligations.
37. In the event that no construction on the Lands has commenced on or before the expiry of one (1) year from the date of registration of this Agreement, the Corporation may subsequently, at its option, on one month's written notice to the Owner, terminate this Agreement, whereupon the Owner acknowledges that agrees that it will not be able to undertake any development construction on the Lands (or any further development or construction) on the Lands.
38. All facilities and matters required by this Agreement shall be provided and maintained by the Owner at its sole risk and expense to the satisfaction of the Corporation and in accordance with the standards determined by the Corporation and in default thereof and without limiting other remedies available to the Corporation, the provisions of Section 446 of the Municipal Act shall apply.
39. A financial guarantee (certified cheque or irrevocable letter of credit – self renewing without burden of proof) for FIFTY PERCENT (50%) of the value of on-site improvements of this development, exclusive of buildings and structures, is required to be paid and/or posted with the Corporation, in addition to further financial security in the amount of ONE HUNDRED PERCENT (100%) for all off-site works required as part of this development.

The Owner's engineer is required to provide a certified estimate of the cost of the on-site and off-site work for consideration by the Town's Director of Engineering and Infrastructure for his/her approval, with any decision by the Town's Director of Engineering and Infrastructure in this regard to be final and binding upon the Owner. Once the Town has inspected and approved the construction of the on-site and off-site works, the Owner will be required to provide security for a ONE (1) year maintenance period in the amount of FIFTEEN PERCENT (15%) of the cost of on-site and off-site improvements.

40. The Owner shall pay to the Corporation a development charge for each building to be constructed in this development as established by the Town in its Development Charges By-law which may include community benefit charges (if applicable). The development charge herein shall be payable in cash or by certified cheque at the time the building permit is secured for the building. The amount of the development charge shall be increased from time to time in accordance with the provisions of the Corporations *Development Charges By-Law* as amended in effect at the time of the issuance of a building permit.
41. This Agreement shall be registered against the land to which it applies, at the expense of the Owner, and the Corporation shall be entitled, subject to the provisions of the Registry Act and the Land Titles Act, to enforce its provisions against the Owner named herein and any and all subsequent owners of the lands.
42. This Agreement shall enure to the benefit of and be binding upon the Parties hereto and their respective heirs, executors, administrators, successors and permitted assigns.
43. This Agreement shall be governed by, and interpreted according to, the laws of the Province of Ontario and the laws of Canada applicable therein, and shall be treated in all respects as an Ontario Contract.
44. If any provision or part thereof of this Agreement be illegal or unenforceable, it or they shall be considered separate and severable from the Agreement, and the remaining provisions of the Agreement shall remain in force and effect and shall be binding upon the Parties hereto as though the said provision or part thereof had never been including in this Agreement.
45. If any provision or part thereof of this Agreement be illegal or unenforceable, it or they shall be considered separate and severable from the Agreement, and the remaining provisions of the Agreement shall remain in force and effect and shall be binding upon the Parties hereto as though the said provision or part thereof had never been including in this Agreement; provided that the severance of the provision or part does not fundamentally impair the rights of the Corporation in which case the Corporation may declare, without the consent of the Owner, this Agreement void, and all development and construction shall cease pending the execution of a new Agreement by the parties.
46. The division of this Agreement into Articles, sections and subsections and the insertion of headings are for convenience of reference only and shall not affect the construction or interpretation hereof.
47. This Agreement may be executed in several counterparts, each of which when so executed shall be deemed to be an original, and such counterparts together shall constitute one and the same instrument and shall be effective as of the date set out above.
48. Words importing the singular number include the plural and vice versa; words importing the masculine gender include the feminine and neutral genders.

49. Schedules and other documents attached or referred to in this Agreement are an integral part of this Agreement, and are hereby incorporated into this Agreement by reference.
50. This Agreement constitutes the entire agreement among the Parties and except as herein stated and in the instruments and documents to be executed and delivered pursuant hereto, contains all of the representations and warranties of the respective Parties. There are no oral representations or warranties among the Parties of any kind. This Agreement may not be amended or modified in any respect except by written instrument signed by both Parties.

IN WITNESS WHEREOF the Owner and the Corporation (the latter under the hands and seals of its officers duly authorized in this regard), have executed this Agreement as of the date first above written.

OWNER: 1137137 Ontario Ltd


Per Bruno Orsi

I have authority to bind the Corporation

**THE CORPORATION OF THE TOWN OF
AMHERSTBURG**


Per Aldo DiCarlo, Mayor


Per Paula Parker, Clerk

We have authority to bind the Corporation

Authorized and approved by By-law No. 2019-85
enacted the 25th day of November 25, 2019

SCHEDULE "A"
LEGAL DESCRIPTION

The following is a description of the land to which this instrument applies.

PLAN 590 PT PART LOT 5 RP, 12R15879 PT 6
Town of Amherstburg, County of Essex and Province of Ontario

PROPOSED COMMERCIAL & RESIDENTIAL BUILDING

FOR

528649 ONTARIO LTD.

Location: 15 RENAUD STREET
AMHERSTBURG, ONTARIO

FIRM NAME: D.C. MCCLOSKEY ENGINEERING 5745 WYNDHAM STREET, SUITE 200, AMHERSTBURG, ONTARIO, L5V 2Y9 PHONE: (519) 724-5000										
NAME OF PROJECT: PROPOSED COMMERCIAL & RESIDENTIAL BUILDING										
LOCATION: 15 RENAUD STREET AMHERSTBURG, ONTARIO										
ITEM: ONTARIO BUILDING CODE DATA MATRIX PARTS 3 or 9		CBC Reference: References are to Division B unless noted [A] for Division A or [C] for Division C								
1	PROJECT DESCRIPTION <input checked="" type="checkbox"/> NEW <input type="checkbox"/> PART 11 <input type="checkbox"/> ADDITION <input type="checkbox"/> PART 10 <input type="checkbox"/> CHANGE OF USE <input type="checkbox"/> ALTERATION	<input type="checkbox"/> PART 10 111 to 118	<input checked="" type="checkbox"/> PART 9 111 to 118 111 to 118							
2	MAJOR OCCUPANCY(S) GROUP C	312.1 (1)	312.2							
3	BUILDING AREA (m ²) N/A 1,080.97 m ² TOTAL 1,080.97 m ²	111.2 (1)	111.2 (1)							
4	GROSS AREA (m ²) N/A 2,242.45 m ² TOTAL 2,242.45 m ²	111.2 (1)	111.2 (1)							
5	NUMBER OF STOREYS ABOVE GRADE 2 BELOW GRADE 1	111.2 (1) & 111.2 (1)	111.2 (1) & 111.2 (1)							
6	NUMBER OF STOREYS / FIREFIGHTER ACCESS FACING 1 - STOREYS	111.2 (1) & 111.2 (1)	111.2 (1)							
7	BUILDING CLASSIFICATION GROUP C	111.2 (1) & 111.2 (1)	111.2 (1)							
8	SPRINKLER SYSTEM PROPOSED <input checked="" type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> SELECTED FLOORS <input type="checkbox"/> SELECTED FLOOR SPANS <input type="checkbox"/> EXISTING <input type="checkbox"/> NEW (OR REPAIR) <input type="checkbox"/> NOT REQUIRED	111.2 (1) & 111.2 (1) 111.2 (1) 111.2 (1) 111.2 (1)	111.2 (1) 111.2 (1) 111.2 (1) 111.2 (1)							
9	STANDPIPE REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	111.2 (1)	111.2 (1)							
10	FIRE ALARM REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	111.2 (1)	111.2 (1)							
11	WATER SERVICE - SUPPLY IS ADEQUATE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	111.2 (1)	111.2 (1)							
12	HIGH BUILDING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	111.2 (1)	111.2 (1)							
13	CONSTRUCTION RESTRICTIONS <input checked="" type="checkbox"/> TEMPORARY PERMITTED <input type="checkbox"/> NON-COMBUSTIBLE <input type="checkbox"/> COMBUSTIBLE	111.2 (1) & 111.2 (1)	111.2 (1)							
ACTUAL CONSTRUCTION <input checked="" type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NON-COMBUSTIBLE <input type="checkbox"/> PERMITTED										
14	MEZZANINE(S) AREA (m ²) N/A	111.2 (1) & 111.2 (1)	111.2 (1)							
15	OCCUPANT LOAD BASED ON RESIDENTIAL OCCUPANCY GROUP C LOAD B PERSONS	111.2 (1)	111.2 (1)							
TOTAL OCCUPANT LOAD = 8 PERSONS										
16	BARRIER FREE DESIGN <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (EXPLAN.)	111.2 (1)	111.2 (1)							
17	HAZARDOUS SUBSTANCES <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	111.2 (1) & 111.2 (1)	111.2 (1)							
18	REQUIRED FIRE RESISTANCE RATING (FRR) HORIZONTAL ASSEMBLIES FLOORS 0 HOURS ROOF 0 HOURS MEZZANINE 0 HOURS FRR OF SUPPORTING MEMBERS FLOORS 0 HOURS ROOF 0 HOURS MEZZANINE 0 HOURS	LISTED DESIGN NO. OR DESCRIPTION (58-2) NA NA NA LISTED DESIGN NO. OR DESCRIPTION (58-2) NA NA NA	111.2 (1) & 111.2 (1) 111.2 (1) 111.2 (1) 111.2 (1) 111.2 (1) 111.2 (1) 111.2 (1)							
19	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALL		111.2 (1)							
	WALL AREA OF EBF(m ²)	L/D (m)	L/H or H/L	PERMITTED MAX. % of OPENINGS	PROPOSED % of OPENINGS	FRR (HOURS)	LISTED DESIGN OR DESCRIPTION	COMBUSTIBLE CONSTR.	COMBUSTIBLE CLADDING	NOTE
	117.1	88.28	7.5	3:1 to 1:1	92	27.75	NA	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	111.2 (1)
	117.2	28.49	8	3:1 to 1:1	72	42.56	NA	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	111.2 (1)
	117.3	46.02	1.5	3:1 to 1:1	8	3.22	NA	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	111.2 (1)
	117.4	46.02	1.5	3:1 to 1:1	8	3.22	NA	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	111.2 (1)

STRUCTURAL ENGINEER

CONTACT - DAVE MCCLOSKEY



d.c. mccluskey engineering ltd.
5745 wyndham st. e. suite 200, amherstburg, ontario n5v 2y9 phone (519) 977-6200

MECHANICAL ENGINEER

CONTACT - MARK KURZUK



4041 8th COXESSECK RD. NORTH, AMHERSTBURG, ONTARIO, L5V 2Y9
PHONE (519) 724-5000 FAX (519) 724-5000
www.fieldcrafteng.com

LIST OF DRAWINGS

ARCHITECTURAL

- A1.1 SITE PLAN
- A1.2 FIRST FLOOR PLAN
- A1.3 SECOND FLOOR PLAN
- A3.1 EXTERIOR ELEVATIONS
- A4.1 SECTIONS
- A4.2 SECTIONS

STRUCTURAL

- S1.1 FOUNDATION PLAN, SCHEDULES, & NOTES

CIVIL

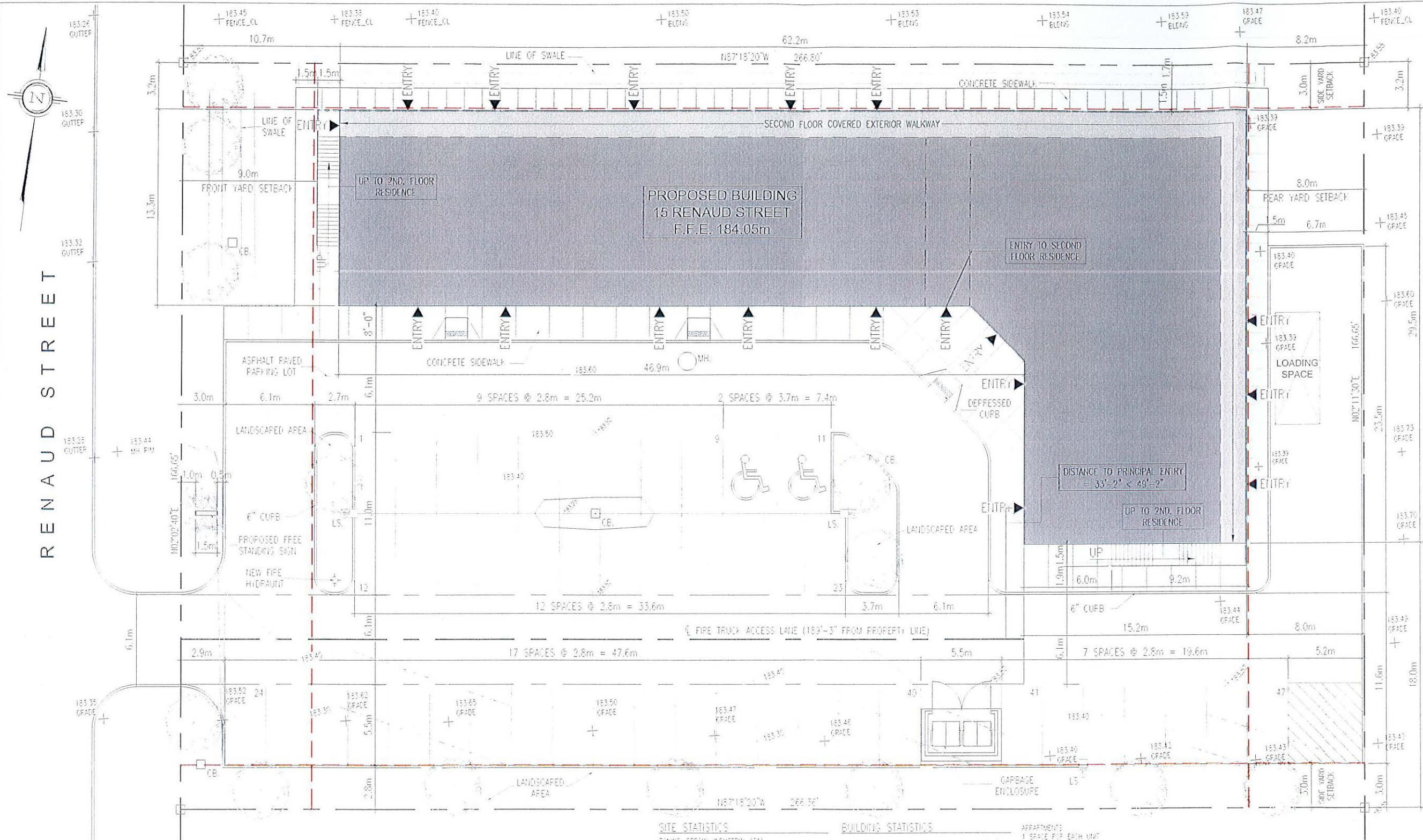
- C1.1 STORMWATER PLAN

24/10/19 REISSUED FOR S.P.C.

26/8/19 OWNER'S REVIEW

date Issued for:

REISSUED FOR S.P.C. 24/10/19



d.c. mcloskey engineering ltd.
 500 WILSON ST. # 201 WILSONVILLE, ONTARIO L9R 1S7
 PHONE (416) 724-8400 FAX (416) 724-5028
 www.dcmcl.com

FIELD CRAFT ENGINEERING LIMITED
 1841 8th AVE. NORTH, AMHERSTBURG, ONTARIO, N0Y 2P9
 PHONE (519) 724-8400 FAX (519) 724-5028
 www.fieldcraft.com

- general notes:
- THIS PLAN IS AN INSTRUMENT OF SERVICE ONLY AND IS THE PROPERTY OF THE ENGINEER.
 - ENGINEER SHALL NOT BE RESPONSIBLE FOR ALL CONSTRUCTION AND CONDITIONS ON THE SITE AND NOT BE RESPONSIBLE FOR ANY VIOLATIONS FROM THE ENGINEERING AND CONDITIONS SHOWN BY THESE DRAWINGS.
 - ATTENTION IS DRAWN TO REGULATIONS IN THE PROVINCE OF ONTARIO REGARDING CONSTRUCTION OF BUILDINGS IN REGARDS TO SUBMISSION OF SHOP DRAWINGS.
 - IN THE EVENT THE ENGINEER IS RETAINED TO BE RESPONSIBLE FOR THE DESIGN OF ANY PART OF THE WORK SHOWN ON THESE DRAWINGS, THE ENGINEER'S LIABILITY IS LIMITED TO THE CONTRACT DOCUMENTS.
 - CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING OF THE EXISTENCE OF ANY OMISSIONS, OVERTSIGHTS, OR CONFLICTS BETWEEN THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODES OR BY-LAWS.
 - THE ENGINEER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE FACILITY.

DATE	ISSUED FOR
18.08.19	OWNER'S REVIEW
27.08.19	S.P.C.
24.10.19	REQUESTED FOR S.P.C.

PROJECT
PROPOSED COMMERCIAL & RESIDENTIAL BUILDING

15 RENAUD STREET,
 AMHERSTBURG, ONTARIO

CLIENT
528649 ONTARIO LTD.
 74 MURRAY STREET
 AMHERSTBURG, ONTARIO

CRAWLING TITLE
SITE PLAN

DATE	AUG. 2019
SCALE	AS NOTED
CRAWLER	AP
CHECKED BY	EDM JG
PROJECT FILE NO.	019-1160
CRAWLING NO.	A1.1

1 SITE PLAN OPTION #1

SCALE: 1" = 10'-0"

SITE STATISTICS

ZONING: SPECIAL INDUSTRIAL (S1)

TOTAL SITE AREA	= 4,100.00 m ²
SITE AREA	= 0.14 Ha
BUILDING FOOTPRINT LOT COVERAGE	
PROPOSED BUILDING	= 1,080.87 m ²
LOT COVERAGE	= 26.34%
MAX. LOT COVERAGE	= 60%
PAVED AREA	
TOTAL AREA	= 1,878.63 m ²
LOT COVERAGE	= 45.79%
LANDSCAPED AREA	
TOTAL AREA	= 1,142.12 m ²
LOT COVERAGE	= 27.85%
CURB LENGTH	
TOTAL AREA	= 314.31 m

BUILDING STATISTICS

FIRST FLOOR	= 1,080.87 m ²
SECOND FLOOR SUITES	= 916.61 m ²
BASEMENT STORAGE	= 230.25 m ²
TOTAL BUILDING AREA	= 2,227.73 m ²
PARKING REQUIREMENTS	
TOD (2014) AUTOMOTIVE WHOLESALE	
1 SPACE FOR EACH 125 m ²	
230.25 m ² / 125 m ²	= 1.8 SPACES
RETAIL	
1 SPACE FOR EACH 24 m ²	
916.61 m ² / 24 m ²	= 38.19 SPACES

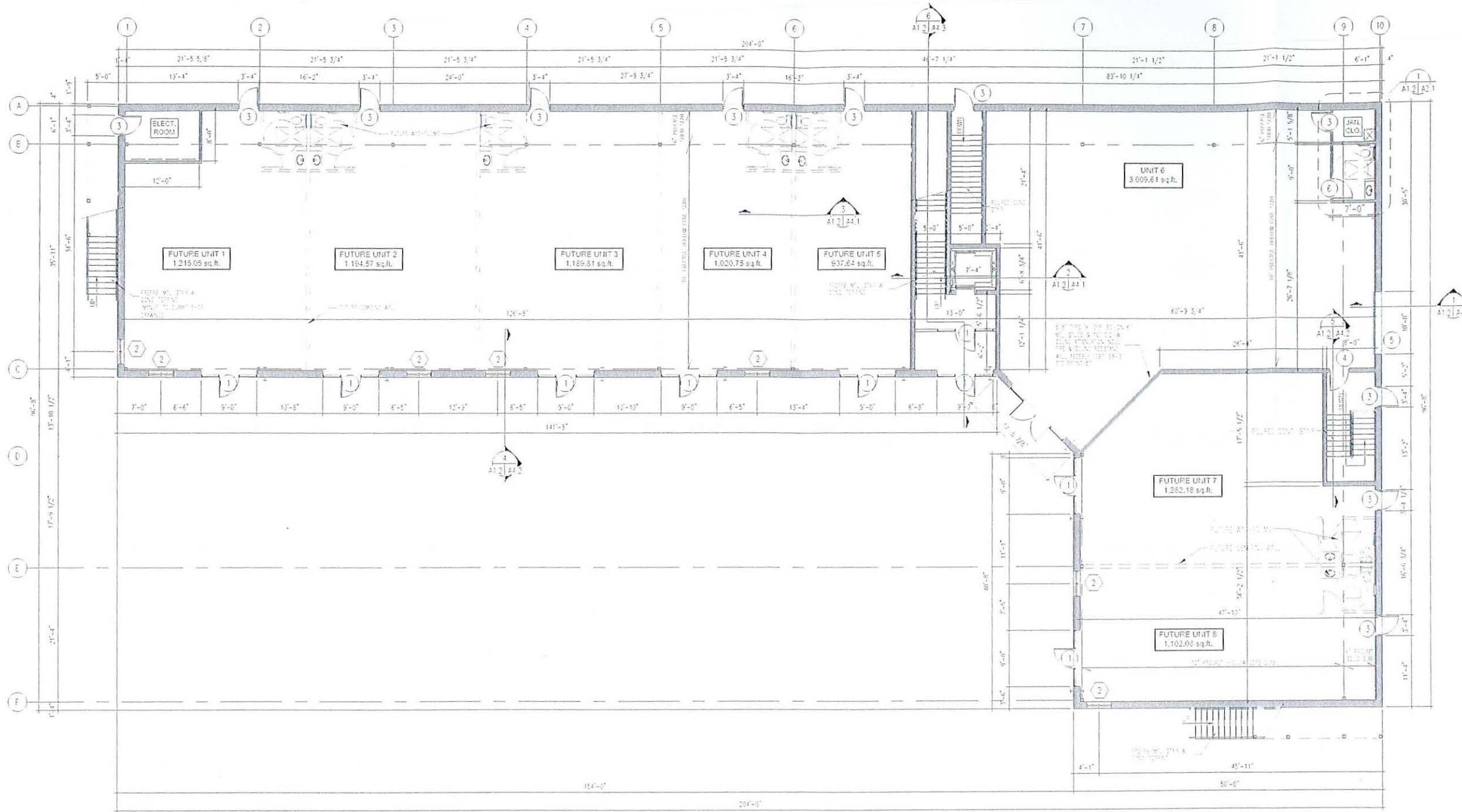
APARTMENTS

1 SPACE FOR EACH UNIT	
9 UNITS / 1	= 9 SPACES
TOTAL PARKING REQUIRED	= 48 SPACES
PARKING PROVIDED:	
REGULAR PARKING SPACES (2.8m x 5.5m)	= 45 SPACES
HANDICAP PARKING SPACES (3.7m x 5.5m)	= 2 SPACES
TOTAL PARKING PROVIDED	= 47 SPACES
LOADING SPACES	
PROVIDED SPACES (4.87m x 16.24m)	= 1 SPACE

BASEMENT ELEV. = 151.05 m
 FIRST FLOOR ELEV. = 154.05 m
 SECOND FLOOR ELEV. = 158.46 m
 GRADE ELEV. = 153.90 m

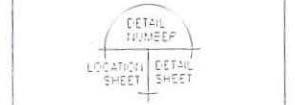
SCHEDULE "M" TO BY-LAW 2019-085

[Signature]
 Town of Amherstburg
 Mayor



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

- general notes:**
- THIS DRAWING IS AN INSTRUMENT OF SERVICE ONLY AND IS THE PROPERTY OF THE ENGINEER.
 - DRAWINGS SHALL NOT BE SCALED.
 - CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND LOCATIONS ON THE JOB AND THIS DRAWING MAY BE MODIFIED BY ANY VARIATIONS FROM THE DIMENSIONS AND LOCATIONS SHOWN BY THESE DRAWINGS IN RESPONSE TO SUBMISSION OF SHOP DRAWINGS.
 - ATTENTION IS DIRECTED TO PROVISIONS IN THE GENERAL CONDITIONS OF CONTRACT, PARTICULARLY THE PROVISIONS RELATIVE TO SUBMISSION OF SHOP DRAWINGS.
 - IN THE EVENT THE ENGINEER IS RETAINED TO REVIEW SHOP DRAWINGS, THE ENGINEER IS NOT TO BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SHOP DRAWINGS OR THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS.
 - CONTRACTORS SHALL VERIFY BEFORE THE ENGINEER IN WRITING THE EXISTENCE OF ANY FIELD OR VARIATIONS FROM THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODES OR BY-LAWS.
 - THE ENGINEER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE WORK, WHETHER BY THE USE OF TECHNIQUES IN THE CONSTRUCTION OF THIS FACILITY.



DATE	ISSUED FOR
24-8-19	OWNER'S REVIEW
24-10-19	REVISED FOR S.P.C.

PROJECT
PROPOSED COMMERCIAL & RESIDENTIAL BUILDING

15 RENAUD STREET,
 AMHERSTBURG, ONTARIO

CLIENT
528649 ONTARIO LTD.
 74 MURRAY STREET
 AMHERSTBURG, ONTARIO

DRAWING TITLE
FIRST FLOOR PLAN

DATE	AUG 2019
SCALE	AS NOTED
DRAWN BY	JP
CHECKED BY	CCM JC
PROJECT FILE NO.	219-1182
DRAWING NO.	A1.2

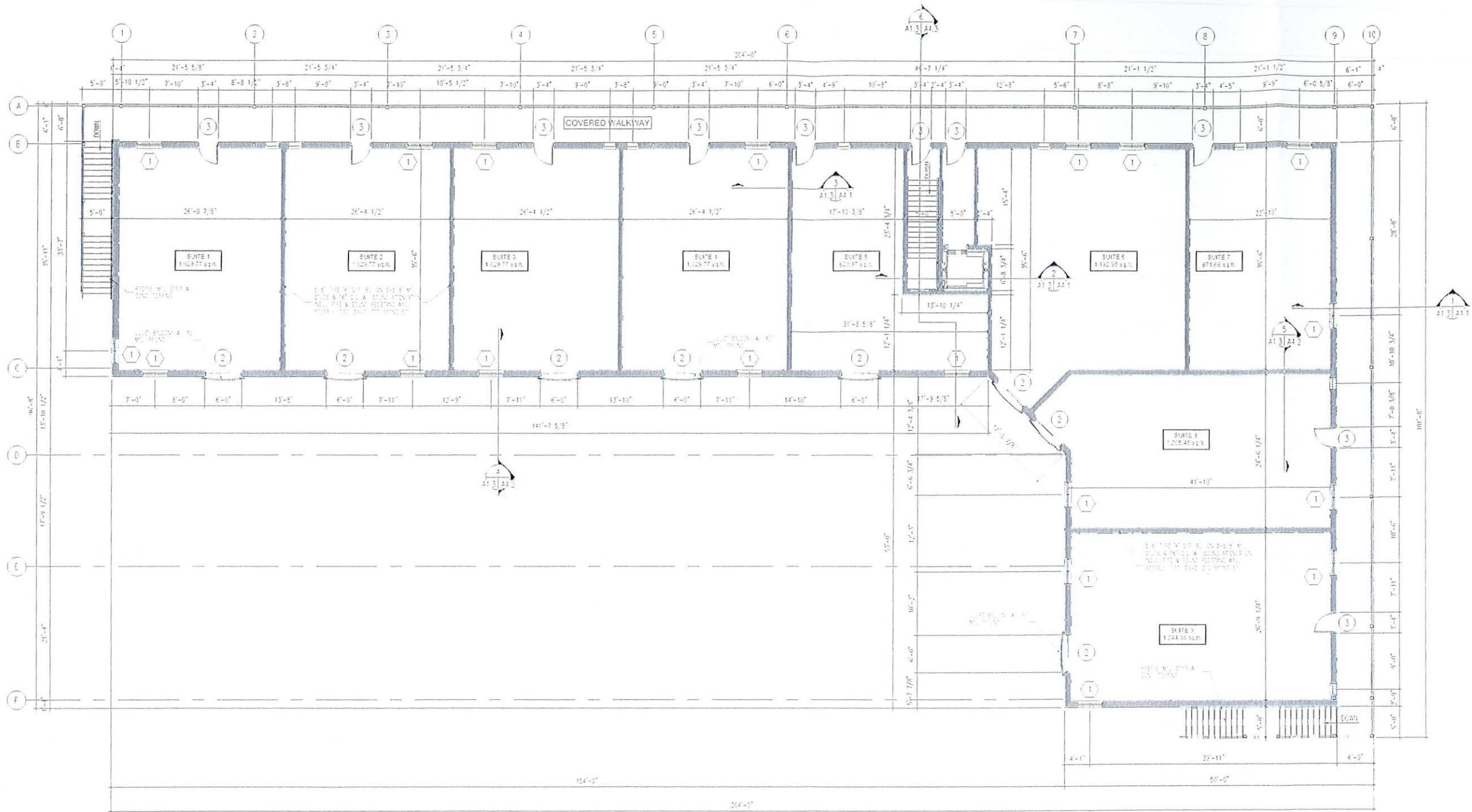
SCHEDULE "C" TO BY-LAW 2019-085
 13713 Ontario Ltd.
 Bruno Orsi
 TOWN OF AMHERSTBURG
 Aldo DiCintio, Mayor
 Reul Parkin, Clerk



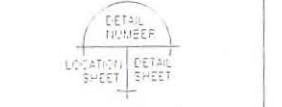
d.c. mccluskey engineering ltd.
500 victoria park rd. unit 200, amherstburg, ontario n9b 1g9



4871 4th CONNELL NORTH, AMHERSTBURG, ONTARIO, N9B 2P6
PHONE: (519) 724-8800 FAX: (519) 724-8828
www.fieldcraft.com



- general notes:
- THIS DRAWING IS AN INSTRUMENT OF SERVICE ONLY AND IS THE PROPERTY OF THE ENGINEER.
 - CONTRACTORS SHALL NOT BE SIZED.
 - CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE. THE DESIGNER SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS MADE BY CONTRACTORS OR ANY OTHER PARTY.
 - ATTENTION IS DRAWN TO ANY DISCREPANCIES BETWEEN THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS AND THE DIMENSIONS AND CONDITIONS SHOWN ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ANY SUCH DISCREPANCIES.
 - IN THE EVENT THE CONTRACTOR IS REQUIRED TO REVISIONS TO THIS DRAWING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER IN WRITING OF THE REVISIONS. ANY REVISIONS SHALL BE APPROVED BY THE ENGINEER AND SHOWN ON THE DRAWINGS AS PART OF THE INSTRUMENT OF SERVICE.
 - CONTRACTORS SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS BETWEEN THE DRAWINGS AND THE CONDITIONS SHOWN ON THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ANY SUCH DISCREPANCIES OR OMISSIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES EXISTING ON THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND STRUCTURES EXISTING ON THE JOB SITE.



DATE	ISSUED FOR
26.8.19	OWNER'S REVIEW
24.10.19	PERISS FOR SFC

PROJECT
PROPOSED COMMERCIAL & RESIDENTIAL BUILDING

15 PENAUD STREET,
AMHERSTBURG, ONTARIO

CLIENT
**528649 ONTARIO LTD.
74 MURRAY STREET
AMHERSTBURG, ONTARIO**

1 SECOND FLOOR PLAN

DRAWING TITLE
SECOND FLOOR PLAN

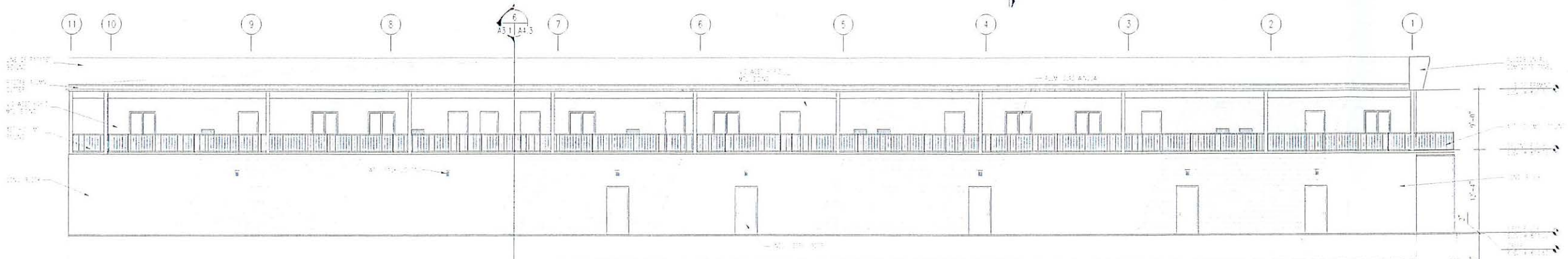
DATE	AUG. 2019
SCALE	AS NOTED
DRAWN BY	AP
CHECKED BY	DOM JD
PROJECT FILE NO	019-1160
DRAWING NO	



d.c. mcloskey engineering ltd.
593 SPADINA AVENUE, TORONTO, ONTARIO M5S 2A5
PHONE: (416) 593-4400 FAX: (416) 593-4401
www.dcmcl.com



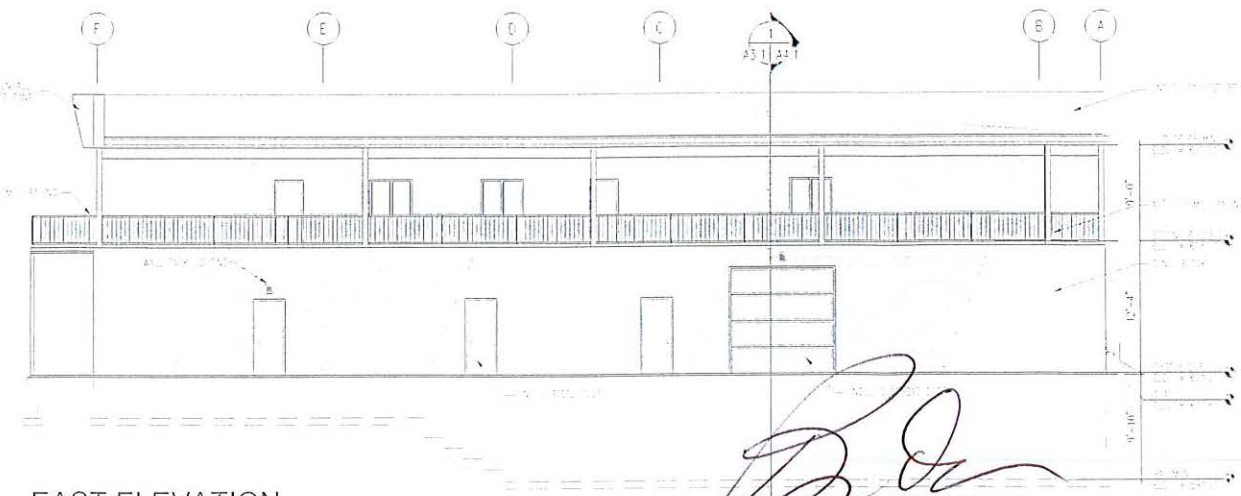
SOUTH ELEVATION
SCALE 1/8" = 1'-0"



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



WEST ELEVATION
SCALE 1/8" = 1'-0"



EAST ELEVATION
SCALE 1/8" = 1'-0"

- general notes:
1. THE DRAWING IS AN INSTRUMENT OF SERVICE ONLY AND IS THE PROPERTY OF THE ENGINEER.
 2. CHANGES SHALL NOT BE MADE.
 3. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE OFFICE MUST BE ADVISED BY THE CONTRACTOR OF ANY DISCREPANCIES AND CONDITIONS SHOWN BY THESE GRANTORS.
 4. ATTENTION IS DIRECTED TO PROVISIONS IN THE GENERAL AGREEMENT TO SUPPLY, CONTRACTOR'S RESPONSIBILITIES IN RELATION TO SUPPLYING CONTRACTOR'S RESPONSIBILITIES.
 5. IN THE EVENT THE DESIGNER IS RETAINED TO RE-DESIGN THE PROJECT, SUCH DESIGN AS ONLY BY CHECKING THE CONTRACT DOCUMENTS AND THE CONTRACT DOCUMENTS WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS.
 6. CONTRACTORS SHALL PROMPTLY NOTIFY THE DESIGNER IN WRITING OF ANY DISCREPANCIES OR CONFLICTS BETWEEN THE CONTRACT DOCUMENTS AND ANY APPLICABLE BY-LAW.
 7. THE DESIGNER IS NOT RESPONSIBLE FOR THE CONTRACTOR'S WORK, METHODS OR TECHNIQUES IN THE CONSTRUCTION OF THIS FACILITY.

DATE	ISSUED FOR
06/18/19	OWNER'S REVIEW
04/10/19	RESUBMITTED FOR PERMITS

PROJECT
PROPOSED COMMERCIAL & RESIDENTIAL BUILDING

15 PENAUD STREET,
AMHERSTBURG, ONTARIO

CLIENT
528649 ONTARIO LTD.
74 MURRAY STREET
AMHERSTBURG, ONTARIO

DATE	ISSUED FOR
08/19/19	AUG. 2019
	SCALE AS NOTED
	DRAWN BY: AR
	CHECKED BY: DCM/JD
	PROJECT FILE NO: 019-1152
	DRAWING NO: A3.1

SCHEDULE "D" TO BY-LAW 2019-085
1137137 Ontario Ltd

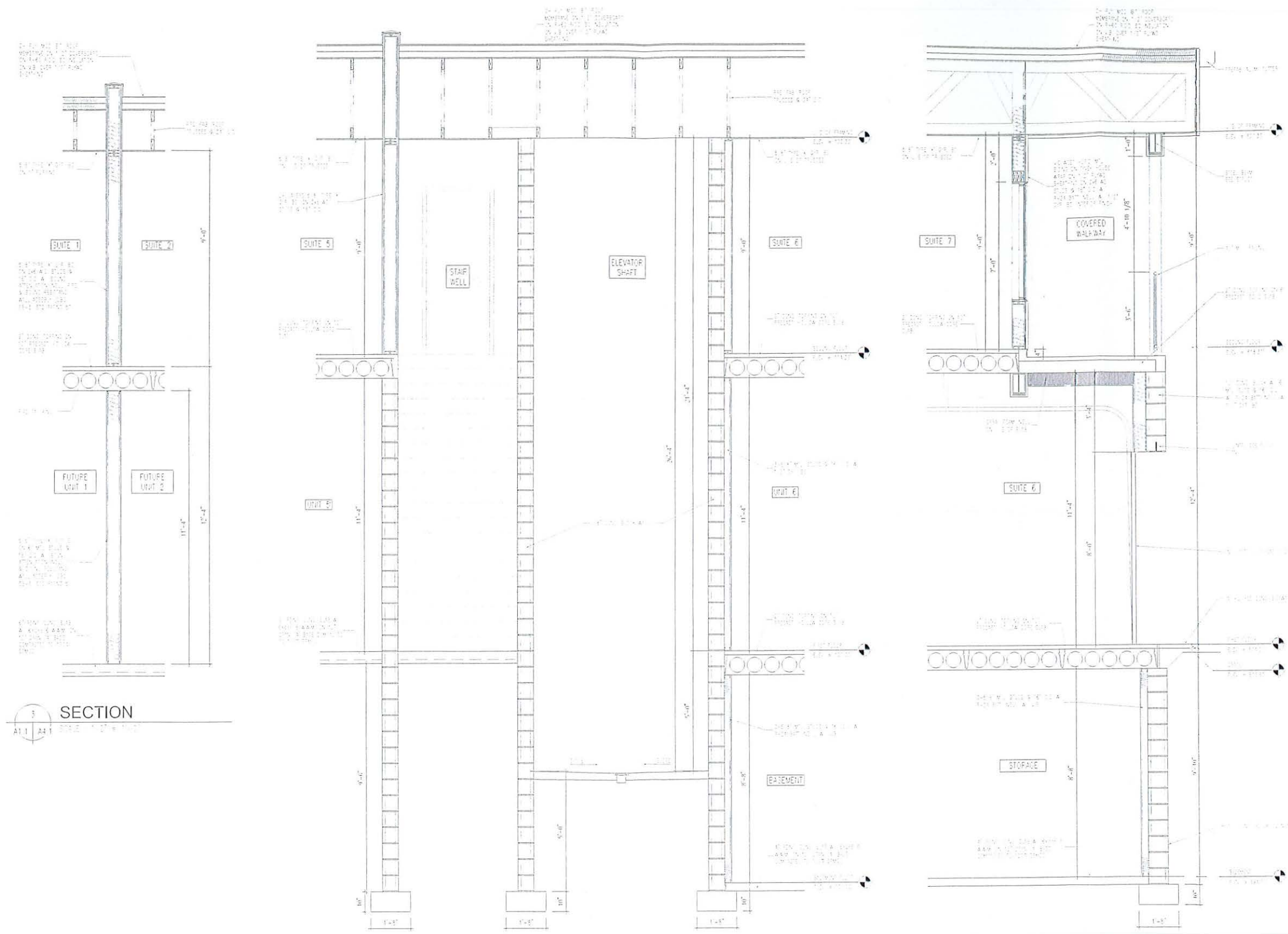
Bruno Orsi
TOWN OF AMHERSTBURG
Aldo Di...
Frank Parker



d.c. mcclouskey engineering ltd.
590 wesley rd e. unit 206, amherst, ontario n9t 1k3, canada
phone: (905) 724-5400 fax: (905) 724-5402



FIELD CRAFT
ENGINEERING LTD.
8945 HWY 7 EAST, UNIT 10, SCARBOROUGH, ONTARIO M1V 4Y7
PHONE: (416) 754-5400 FAX: (416) 754-5402

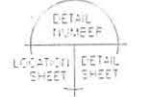


SECTION 3
A1.1 | A4.1

SECTION 2
A1.1 | A4.1

SECTION 1
A1.1 | A4.1

- general notes:
- THIS DRAWING IS AN INSTRUMENT OF SERVICE ONLY AND IS THE PROPERTY OF THE ENGINEER.
 - CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL EXISTING AND PROPOSED CONDITIONS ON THE JOB AND THE OFFICE MUST BE ADVISED BY YOU IMMEDIATELY FROM THE EXISTING AND PROPOSED CONDITIONS SHOWN BY THESE DRAWINGS.
 - ATTENTION IS DIRECTED TO PROVISIONS IN THE GENERAL CONDITIONS REGARDING CONSTRUCTION OF THE PROJECT IN RESPECT TO SUBMISSION OF SHOP DRAWINGS.
 - IN THE EVENT THE ENGINEER IS RETAINED TO REVIEW SHOP DRAWINGS THE ENGINEER IS NOT TO BE HELD RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF THE PROJECT UNLESS THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODES OF BY-LAW.
 - CONTRACTORS SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING OF THE EXISTENCE OF ANY EXISTING DEFICIENCY BETWEEN THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODES OF BY-LAW.
 - THE ENGINEER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT UNLESS THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODES OF BY-LAW.



DATE	ISSUED FOR
20.8.19	OWNER'S REVIEW
24.11.19	REVISED FOR B.P.C.

PROJECT
PROPOSED COMMERCIAL & RESIDENTIAL BUILDING
15 PENNAUD STREET, AMHERSTBURG, ONTARIO
CLIENT
528649 ONTARIO LTD.
74 MURRAY STREET
AMHERSTBURG, ONTARIO

DRAWING TITLE
SECTIONS
DATE: AUG 2019
SCALE: AS NOTED
DRAWN BY: AP
CHECKED BY: DOM JO
PROJECT FILE NO: 019-1160
DRAWING NO:

A4.1

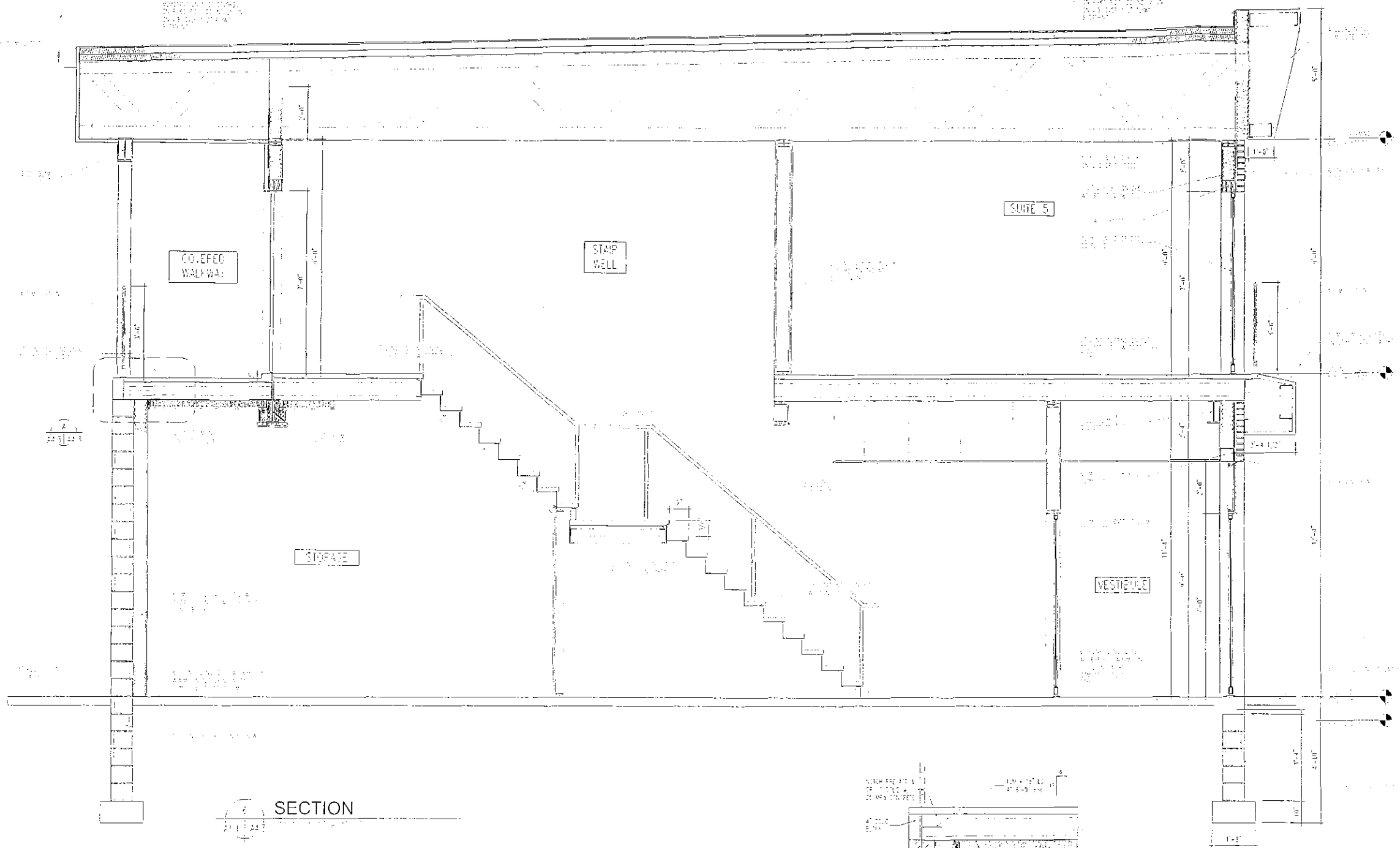
SCHEDULE "E" TO BY-LAW 2019-065
1187137 Ontario Ltd
Bruno Orsi
TOWN OF AMHERSTBURG
Aldo Cerini Mayor
Paula Parker Clerk



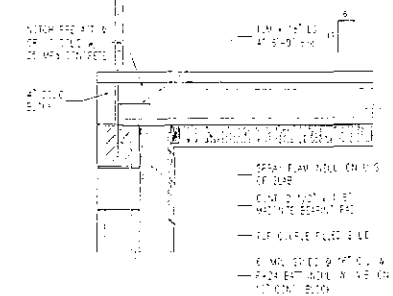
d.c. mcloskey engineering ltd.
 596 BRIMLEY AVE. UNIT 201 MISSISSAUGA, ONT. L4V 1P5
 TEL: (905) 276-1111 FAX: (905) 276-1112



FIELD CRAFT
 ENGINEERING LIMITED
 4745 BRIMLEY RD. WILLOWDALE, ONTARIO M2H 3G9
 PHONE: (416) 491-8100 FAX: (416) 491-8102
 www.fieldcraft.com

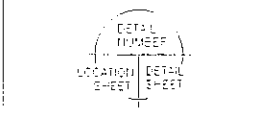


SECTION



DETAIL

- general notes:
1. THIS DRAWING IS THE PROPERTY OF FIELD CRAFT AND IS TO BE KEPT IN THE OFFICE OF THE ENGINEER.
 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF ALL WORK SHALL BE CHECKED BY THE CONTRACTOR BEFORE ANY WORK BEGINS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DRAWING.
 3. ATTENTION IS DRAWN TO ANY CHANGES TO THE GENERAL CONTRACT DOCUMENTS, PARTICULARLY THE SPECIFICATIONS AND SCHEDULES IN RELATION TO THIS DRAWING.
 4. IN THE EVENT THE DESIGNER IS REQUIRED TO REVISIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF SUCH REVISIONS.
 5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL WORK SHALL BE CHECKED BY THE CONTRACTOR BEFORE ANY WORK BEGINS.
 6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL WORK SHALL BE CHECKED BY THE CONTRACTOR BEFORE ANY WORK BEGINS.
 7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF ALL WORK SHALL BE CHECKED BY THE CONTRACTOR BEFORE ANY WORK BEGINS.



DATE	REVISION FOR
2018-08-15	CONTRACT REVIEW
2018-08-15	PREPARED FOR S.P.C.

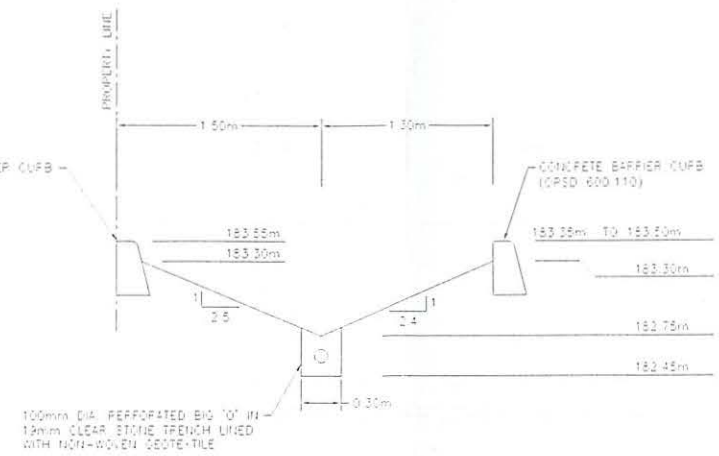
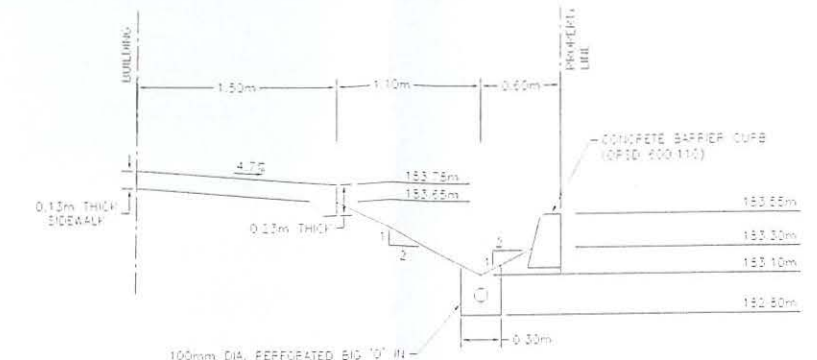
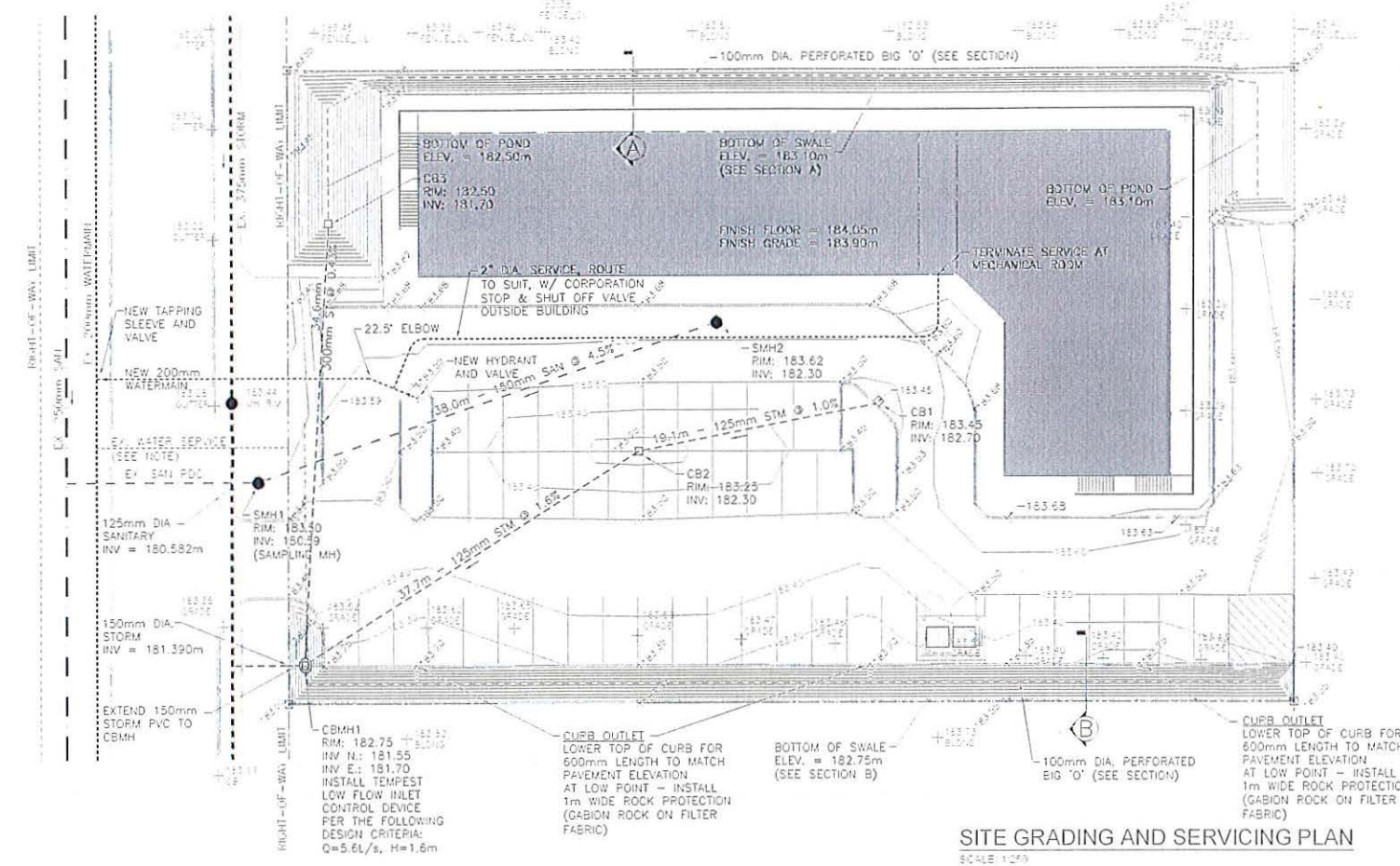
PROJECT
 PROPOSED COMMERCIAL & RESIDENTIAL BUILDING

16 REGINA STREET, AMHERSTBURG, ONTARIO

CLIENT
 528649 ONTARIO LTD.
 74 MURRAY STREET
 AMHERSTBURG, ONTARIO

DRAWING TITLE
 SECTIONS

DATE:	AUG 2018
SCALE:	AS NOTED
DRAWN BY:	AR
CHECKED BY:	COM/LS
PROJECT FILE NO:	018-1180
DRAWING NO:	

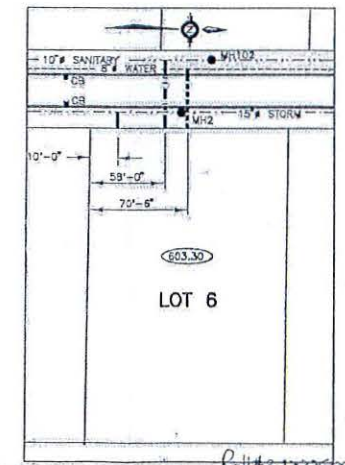


NOTES:

- 1.0 GENERAL
- 1.1 THE TOPOGRAPHIC INFORMATION DEPICTED IN THESE DRAWINGS IS BASED ON TOPOGRAPHIC SURVEYS CONDUCTED BY LANDMARK ENGINEERS INC. IN ORDER TO SUPPORT THE DESIGN PROCESS.
- 1.2 LANDMARK ENGINEERS DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION DEPICTED HEREIN. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL RELEVANT INFORMATION IN THE FIELD PRIOR TO PROCEEDING WITH THE WORK.
- 1.3 THE LOCATIONS OF EXISTING UTILITIES AND SERVICES SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE VERIFIED BY FIELD LOCATES COORDINATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 2.0 SITE PREPARATION
 - 2.1 CLEARING AND GRUBBING OF THE SITE SHALL BE CARRIED OUT IN CONFORMANCE WITH OPSS 274.
 - 2.2 ALL EXISTING TOPSOIL SHALL BE STRIPPED IN ACCORDANCE WITH OPSS 276 AND STOCKPILED ON SITE IN ACCORDANCE WITH OPSS 270.
 - 2.3 ROUGH GRADING OF THE SITE SHALL BE CARRIED OUT IN CONFORMANCE WITH OPSS 276. ANY SURPLUS MATERIALS SHALL BE DISPOSED OF ON-SITE.
 - 2.4 ALL REMOVALS SHALL BE CARRIED OUT IN CONFORMANCE WITH OPSS 270.
- 3.0 SEWERS
 - 3.1 ALL STORM SEWER PIPE MATERIALS SHALL BE EITHER DR18 PVC IN CONFORMANCE WITH OPSS 1241 OR SMOOTH-WALLED POLYETHYLENE PIPE IN CONFORMANCE WITH OPSS 1242, OPSS 276 (2) AND CERTIFIED TO CSA B182.6-M12.
 - 3.2 ALL SANITARY SEWER PIPE MATERIALS SHALL BE EITHER DR18 PVC IN CONFORMANCE WITH OPSS 1241 OR SMOOTH-WALLED POLYETHYLENE PIPE IN CONFORMANCE WITH OPSS 1242, OPSS 276 (2) AND CERTIFIED TO CSA B182.6-M12.
 - 3.3 SEWER INSTALLATIONS SHALL BE CARRIED OUT IN CONFORMANCE WITH OPSS 401 & 410, USING GRADED CLEAR STONE (MAX. 1/2" DIAMETER) FOR THE PIPE BEDDING AND AT LEAST 300mm OF COMPACTED GRANULAR 'A' (SEE OPSS 1010) FOR THE COVER MATERIAL.
 - 3.4 ALL PIPE TRENCHES SHALL BE BACK-FILLED TO FULL DEPTH WITH AN APPROVED GRANULAR MATERIAL COMPACTED TO 100% STANDARD PROCTOR. PRECAST CONCRETE CATCH BASINS SHALL CONFORM TO OPSS 716 (11), COMPLETE WITH FRAME AND GRATE AS PER OPSS 400.100.

- SEWERS (CONT'D)
- 3.5 PRECAST CONCRETE MANHOLES SHALL CONFORM TO OPSS 716 (11), COMPLETE WITH FRAME AND COVER AS PER OPSS 400.100.
- 3.6 PRECAST CONCRETE CATCH BASIN MANHOLES SHALL CONFORM TO OPSS 716 (11), COMPLETE WITH PRECAST FLAT TOP AND FRAME AND GRATE AS PER OPSS 400.100.
- 3.7 ALL PRECAST CONCRETE COMPONENTS SHALL BE INSTALLED IN CONFORMANCE WITH OPSS 401 & 410.
- 4.0 WATERMANS
 - 4.1 AMHERSTBURG ENVIRONMENTAL SERVICES SPECIFICATIONS SHALL APPLY AND GOVERN EXCEPT AS AMENDED OR EXTENDED HEREIN.
 - 4.2 ALL WATERMANS AND FITTINGS SHALL BE POLYETHYLENE PLASTIC IN ACCORDANCE WITH THE REQUIREMENTS OF AWWA C900 AND OPSS 1042.
 - 4.3 WATERMAIN INSTALLATIONS SHALL BE CARRIED OUT IN CONFORMANCE WITH OPSS 401 & 421.
 - 4.4 EXISTING WATER SERVICE TO BE DECOMMISSIONED AND ABANDONED PER AMHERSTBURG ENVIRONMENTAL SERVICES SPECIFICATIONS.
- 5.0 CURBS & FINISHES
 - 5.1 ALL PAVEMENT BASE MATERIALS SHALL CONSIST OF 307mm THICK GRANULAR 'A' AS PER OPSS 1010, INSTALLED IN ACCORDANCE WITH OPSS 314.
 - 5.2 THE PAVEMENT SHALL CONSIST OF HOT-MIX ASPHALT AS PER OPSS 1005 & 1150, INSTALLED IN ACCORDANCE WITH OPSS 310.
 - 5.3 CONCRETE CURBS SHALL BE INSTALLED AS PER OPSS 600.040 AND OPSS 160, USING 50 MPa CONCRETE IN CONFORMANCE WITH OPSS 1008 (150).

SCHEDULE "G" TO BY-LAW 2017-065
1137187 Ontario Ltd
TOWN OF AMHERSTBURG
Mayor
Clerk



SERVICE	SIZE	INVERT ELEVATION
STORM	6" dia.	595.11
SANITARY	5" dia.	592.46
WATER	3/4" dia.	

LOT GRADING & PRIVATE SERVICE CONNECTIONS
ALMA STREET INDUSTRIAL SUBDIVISION

A.A. BOBSCARIOL & ASSOCIATES
CONSULTING ENGINEERS
LOT 6



DATE	BY	REVISION
1	ENK / DMK	DESIGN
2	ADM / DMK	REVISED
3	DMK	REVISED
4	DMK	REVISED
5	DMK	REVISED
6	DMK	REVISED



NO.	DESCRIPTION	DATE
0	REVIEW BY CLIENT AND TO/11	NOV 2019
1		
2		
3		
4		
5		
6		

NOTE: THE CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND REQUIREMENTS FROM THE PROJECTING ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE TOWN OF AMHERSTBURG AND THE PROVINCE OF ONTARIO.



DATE: 19-01-18
PROJECT: 19-018-01
SHEET: 1 OF 1
SCALE: AS SHOWN

15 RENAUD STREET
SITE DEVELOPMENT

SITE SERVICING AND
GRADING PLAN

METRES
SCALE OF PLAN

DESCRIPTION

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

SCHEDULE "H" TO BY-LAW 2019-085

1137137 Ontario Ltd.

Bruno Orsi

TOWN OF AMHERSTBURG

Aldo DiCarlo, Mayor

Patricia Parker, Clerk

OA & OAI

SPECIFICATION FEATURES

Construction

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

Optics

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

Electrical

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

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the

arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. **QUICK MOUNT ARM:** Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

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

Warranty

Five-year warranty.



GLEON GALLEON LED

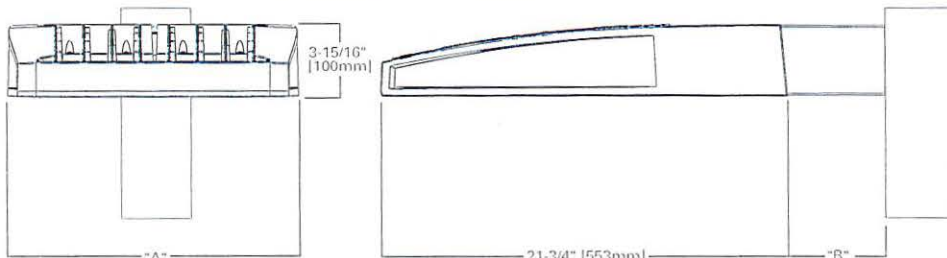
1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE



WaveLinx

DIMENSIONS



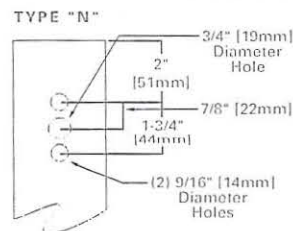
DIMENSION DATA

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

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



DRILLING PATTERN



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

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

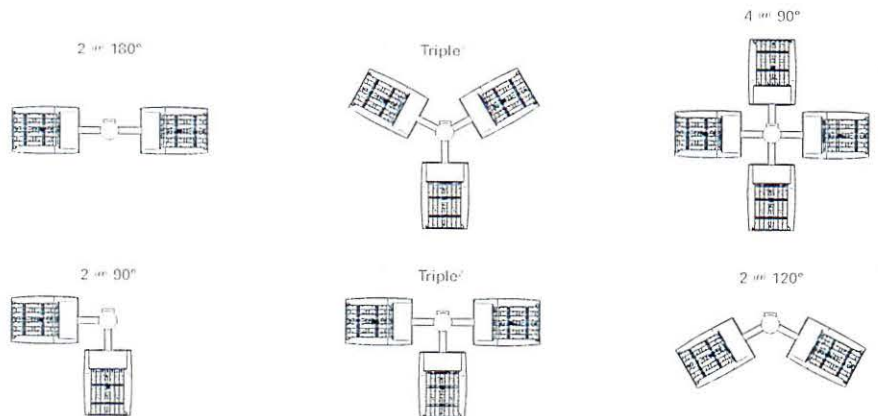


*www.designlights.org

TD500020EN
July 23, 2019 2:40 PM

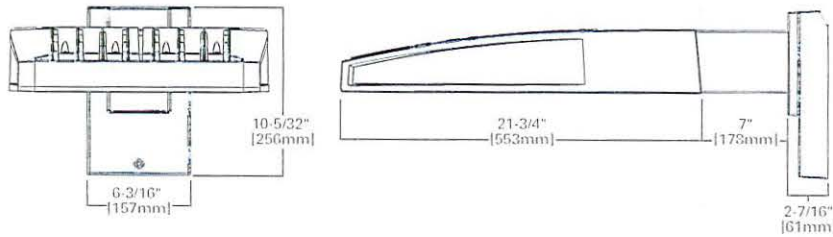
ARM MOUNTING REQUIREMENTS

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

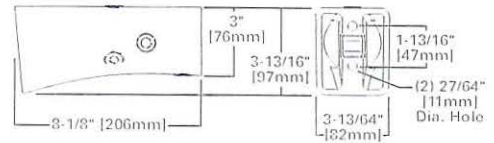


NOTES: 1 Required to separate 180°/90° configurations. 2 Required to separate 120°/90°

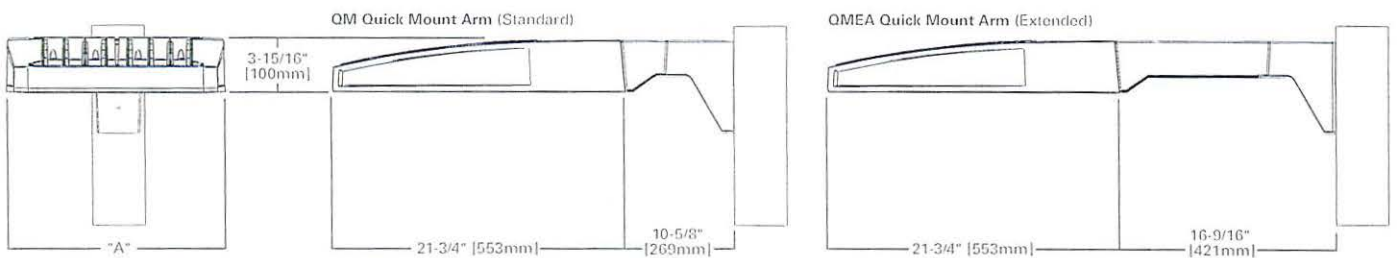
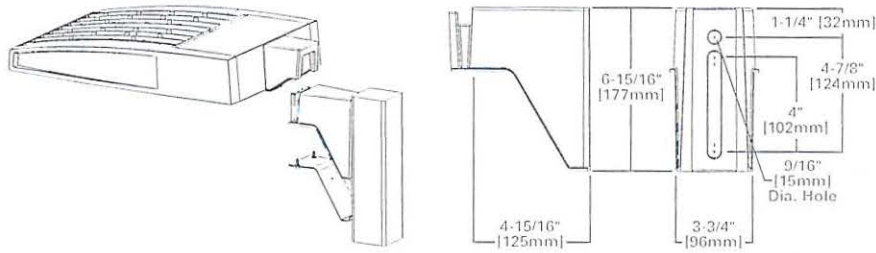
STANDARD WALL MOUNT



MAST ARM MOUNT



QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QUICK MOUNT ARM DATA

Number of Light Squares 1,2	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1,11
5-6 3	21 5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	N/A	

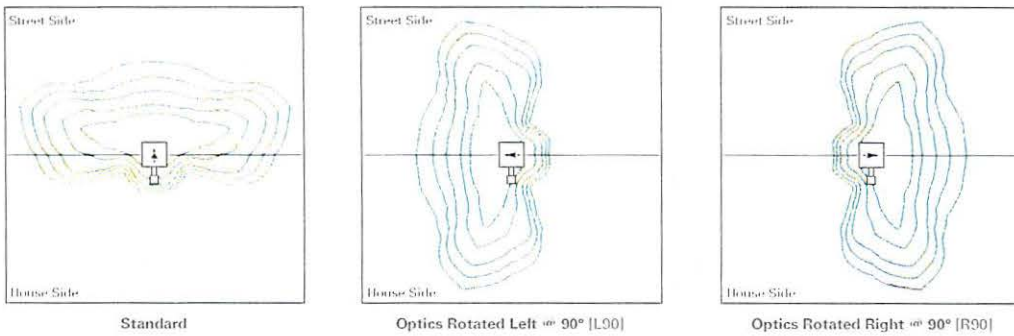
NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.



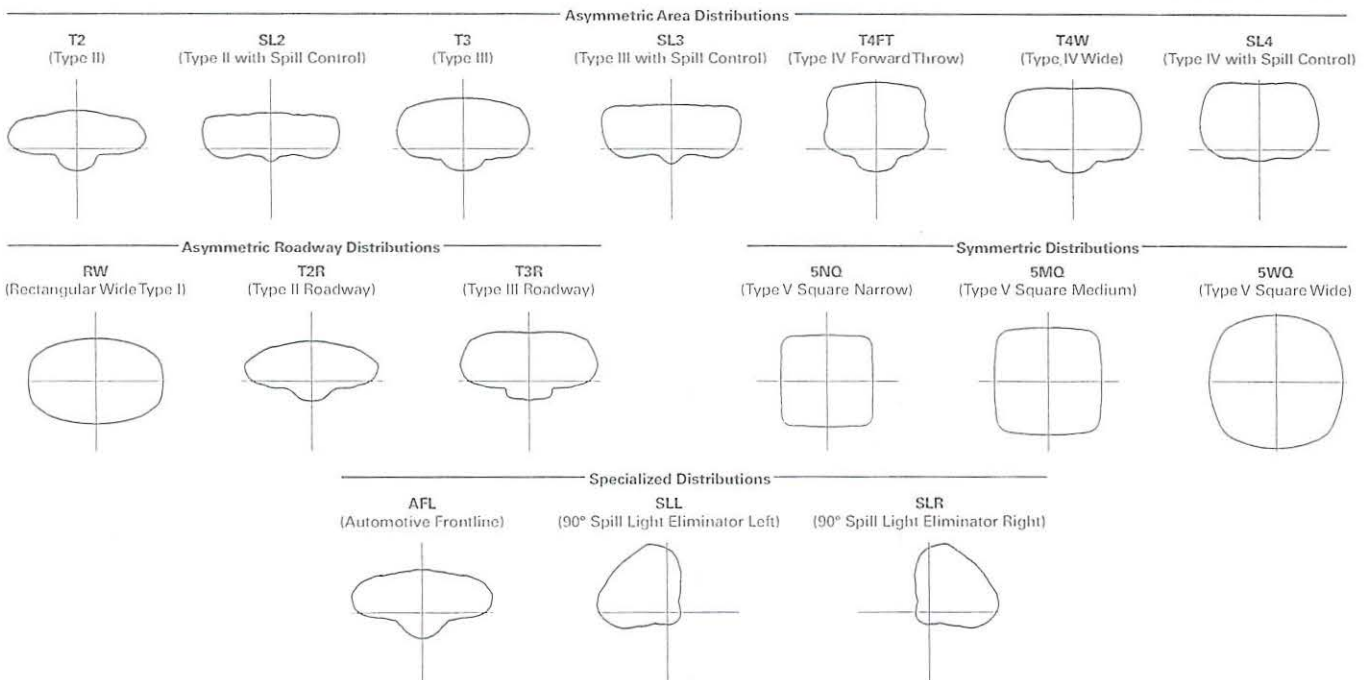
Eaton
1120 Holloway St South
Baltimore, MD 21204
P: 410-436-4800
www.eaton.com/building

Specifications and dimensions subject to change without notice.

OPTIC ORIENTATION



OPTICAL DISTRIBUTIONS

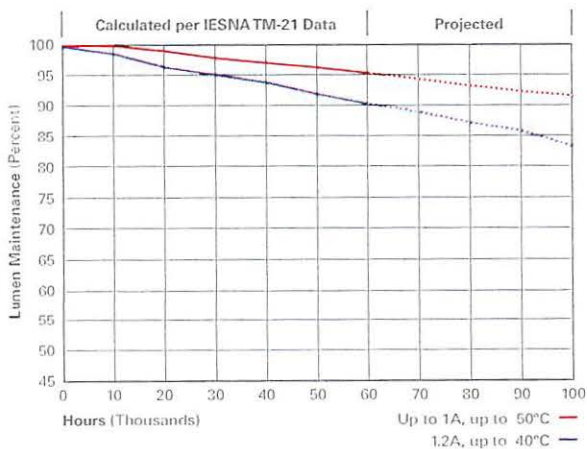


LUMEN MAINTENANCE

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

LUMEN MULTIPLIER

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



Eaton
 101 Holladay, 31 South
 Richardson, TX 75080
 P: 214-645-3000
 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

NOMINAL POWER LUMENS (1.2A)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Nominal Power (Watts)	67	129	191	258	320	382	448	511	575	640	
Input Current @ 120V (A)	0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87	
Input Current @ 208V (A)	0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14	
Input Current @ 240V (A)	0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71	
Input Current @ 277V (A)	0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36	
Input Current @ 347V (A)	0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92	
Input Current @ 480V (A)	0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45	
Optics											
T2	4000K/5000K Lumens	6,863	13,412	20,011	26,441	32,761	39,205	46,364	52,534	58,601	64,880
	3000K Lumens	6,489	12,681	18,919	25,000	30,974	37,066	43,836	49,668	55,405	61,341
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	7,285	14,238	21,246	28,072	34,780	41,621	49,221	55,770	62,212	68,878
	3000K Lumens	6,888	13,462	20,087	26,541	32,884	39,351	46,537	52,729	58,819	65,122
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,995	13,670	20,397	26,951	33,391	39,959	47,256	53,544	59,728	66,130
	3000K Lumens	6,613	12,924	19,284	25,480	31,570	37,780	44,679	50,624	56,471	62,524
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	7,150	13,973	20,850	27,549	34,134	40,846	48,307	54,734	61,056	67,598
	3000K Lumens	6,761	13,212	19,713	26,046	32,272	38,619	45,673	51,750	57,726	63,911
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	7,036	13,748	20,515	27,107	33,586	40,191	47,530	53,854	60,074	66,512
	3000K Lumens	6,652	12,999	19,397	25,629	31,754	37,999	44,938	50,917	56,797	62,885
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,945	13,571	20,249	26,756	33,152	39,671	46,917	53,160	59,298	65,653
	3000K Lumens	6,566	12,831	19,146	25,297	31,344	37,508	44,358	50,260	56,064	62,072
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	6,851	13,388	19,977	26,396	32,704	39,137	46,283	52,444	58,498	64,768
	3000K Lumens	6,477	12,658	18,888	24,957	30,920	37,003	43,759	49,584	55,308	61,235
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,994	13,668	20,394	26,947	33,388	39,953	47,249	53,537	59,720	66,119
	3000K Lumens	6,612	12,922	19,281	25,477	31,567	37,774	44,673	50,618	56,463	62,514
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	6,645	12,986	19,378	25,603	31,723	37,962	44,893	50,868	56,743	62,824
	3000K Lumens	6,282	12,279	18,321	24,207	29,993	35,892	42,445	48,094	53,648	59,398
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5N0	4000K/5000K Lumens	7,214	14,097	21,036	27,795	34,437	41,210	48,734	55,220	61,597	68,199
	3000K Lumens	6,820	13,329	19,888	26,279	32,558	38,962	46,077	52,208	58,237	64,479
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5M0	4000K/5000K Lumens	7,347	14,356	21,423	28,306	35,071	41,969	49,632	56,237	62,730	69,454
	3000K Lumens	6,947	13,573	20,254	26,762	33,158	39,680	46,925	53,170	59,309	65,667
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
5W0	4000K/5000K Lumens	7,366	14,396	21,480	28,381	35,164	42,080	49,765	56,386	62,898	69,639
	3000K Lumens	6,964	13,610	20,308	26,833	33,247	39,786	47,050	53,311	59,468	65,842
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	6,147	12,010	17,921	23,679	29,339	35,109	41,521	47,046	52,478	58,102
	3000K Lumens	5,811	11,355	16,944	22,388	27,739	33,194	39,256	44,479	49,617	54,933
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	7,149	13,970	20,846	27,543	34,126	40,837	48,295	54,722	61,042	67,582
	3000K Lumens	6,760	13,208	19,709	26,041	32,264	38,610	45,661	51,738	57,713	63,897
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL	4000K/5000K Lumens	7,175	14,021	20,921	27,643	34,249	40,986	48,470	54,920	61,262	67,828
	3000K Lumens	6,784	13,256	19,780	26,136	32,381	38,750	45,827	51,925	57,922	64,129
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.



Eaton
1171 Highway 71 South
Parsippany, NJ 07054
P: 201-896-3900
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

NOMINAL POWER LUMENS (1A)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Nominal Power (Watts)	59	113	166	225	279	333	391	445	501	558	
Input Current @ 120V (A)	0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07	
Input Current @ 208V (A)	0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75	
Input Current @ 240V (A)	0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39	
Input Current @ 277V (A)	0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09	
Input Current @ 347V (A)	0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68	
Input Current @ 480V (A)	0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28	
Optics											
T2	4000K/5000K Lumens	6,256	12,225	18,242	24,104	29,865	35,739	42,265	47,888	53,420	59,144
	3000K Lumens	5,915	11,559	17,248	22,789	28,236	33,790	39,660	45,277	50,506	55,919
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	6,642	12,979	19,366	25,589	31,705	37,941	44,870	50,840	56,711	62,789
	3000K Lumens	6,280	12,271	18,311	24,193	29,976	35,872	42,423	48,068	53,619	59,365
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,377	12,461	18,593	24,568	30,439	36,426	43,077	48,810	54,447	60,282
	3000K Lumens	6,029	11,781	17,580	23,229	28,781	34,441	40,731	46,150	51,480	56,997
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	6,518	12,739	19,006	25,113	31,116	37,235	44,036	49,895	55,658	61,622
	3000K Lumens	6,029	11,781	17,579	23,229	28,779	34,440	40,729	46,148	51,478	56,995
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	6,414	12,533	18,702	24,710	30,616	36,637	43,328	49,093	54,763	60,631
	3000K Lumens	6,064	11,849	17,681	23,363	28,946	34,638	40,966	46,417	51,776	57,325
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,331	12,372	18,459	24,391	30,221	36,163	42,769	48,459	54,056	59,849
	3000K Lumens	5,986	11,697	17,452	23,061	28,572	34,192	40,436	45,817	51,108	56,585
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	6,245	12,205	18,212	24,062	29,813	35,677	42,192	47,807	53,326	59,042
	3000K Lumens	5,904	11,539	17,218	22,750	28,187	33,732	39,891	45,199	50,418	55,822
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,376	12,460	18,591	24,564	30,436	36,421	43,072	48,803	54,439	60,273
	3000K Lumens	6,028	11,780	17,578	23,224	28,776	34,435	40,723	46,141	51,471	56,986
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	6,058	11,838	17,664	23,340	28,918	34,605	40,924	46,370	51,727	57,269
	3000K Lumens	5,727	11,193	16,701	22,067	27,341	32,718	38,692	43,841	48,906	54,146
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	6,577	12,851	19,176	25,336	31,392	37,566	44,426	50,337	56,151	62,170
	3000K Lumens	6,218	12,151	18,131	23,955	29,680	35,517	42,003	47,592	53,089	58,779
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5MQ	4000K/5000K Lumens	6,697	13,088	19,528	25,803	31,970	38,258	45,243	51,264	57,185	63,313
	3000K Lumens	6,332	12,374	18,463	24,395	30,227	36,171	42,776	48,468	54,066	59,861
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
5WQ	4000K/5000K Lumens	6,715	13,122	19,580	25,871	32,055	38,360	45,365	51,401	57,337	63,482
	3000K Lumens	6,348	12,406	18,513	24,461	30,307	36,268	42,891	48,599	54,210	60,021
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	5,604	10,949	16,337	21,586	26,745	32,004	37,850	42,886	47,838	52,965
	3000K Lumens	5,298	10,351	15,446	20,409	25,287	30,258	35,786	40,547	45,229	50,077
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	6,517	12,735	19,002	25,107	31,109	37,227	44,025	49,883	55,644	61,607
	3000K Lumens	6,162	12,040	17,965	23,738	29,413	35,197	41,623	47,163	52,609	58,247
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL	4000K/5000K Lumens	6,541	12,781	19,072	25,199	31,221	37,362	44,185	50,065	55,846	61,831
	3000K Lumens	6,184	12,084	18,032	23,825	29,519	35,325	41,775	47,334	52,801	58,459
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.



Eaton
 1111 Highway 17 South
 Richardson, TX 75080
 P: 720.436.2800
www.eaton.com/lighting

See the literature and
 dimensions page of the
 catalog for full details.

NOMINAL POWER LUMENS (800MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		44	85	124	171	210	249	295	334	374	419
Input Current @ 120V (A)		0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80
Input Current @ 208V (A)		0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12
Input Current @ 240V (A)		0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84
Input Current @ 277V (A)		0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67
Input Current @ 347V (A)		0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52
Input Current @ 480V (A)		0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96
Optics											
T2	4000K/5000K Lumens	5,054	9,876	14,739	19,475	24,120	28,875	34,148	38,691	43,159	47,785
	3000K Lumens	4,779	9,338	13,935	18,412	22,813	27,301	32,286	36,581	40,805	45,179
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5
T2R	4000K/5000K Lumens	5,366	10,486	15,647	20,675	25,616	30,654	36,252	41,076	45,819	50,730
	3000K Lumens	5,074	9,914	14,794	19,548	24,218	28,982	34,276	38,835	43,320	47,964
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3	4000K/5000K Lumens	5,153	10,068	15,022	19,849	24,593	29,430	34,805	39,436	43,990	48,705
	3000K Lumens	4,872	9,519	14,203	18,766	23,251	27,825	32,907	37,285	41,591	46,048
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	5,266	10,292	15,356	20,290	25,140	30,084	35,578	40,312	44,968	49,786
	3000K Lumens	4,979	9,731	14,518	19,184	23,769	28,443	33,638	38,114	42,516	47,071
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	5,182	10,126	15,109	19,964	24,736	29,600	35,006	39,664	44,245	48,987
	3000K Lumens	4,899	9,574	14,285	18,876	23,387	27,986	33,097	37,501	41,832	46,315
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	5,115	9,995	14,914	19,706	24,417	29,218	34,554	39,152	43,674	48,354
	3000K Lumens	4,836	9,450	14,100	18,631	23,085	27,624	32,670	37,017	41,292	45,717
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	5,046	9,860	14,713	19,441	24,087	28,825	34,089	38,625	43,085	47,702
	3000K Lumens	4,771	9,322	13,911	18,331	22,774	27,253	32,229	36,518	40,735	45,101
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	5,152	10,067	15,020	19,846	24,591	29,426	34,800	39,431	43,984	48,698
	3000K Lumens	4,871	9,518	14,200	18,764	23,249	27,822	32,902	37,280	41,585	46,042
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	4,894	9,565	14,271	18,857	23,364	27,959	33,065	37,465	41,792	46,270
	3000K Lumens	4,627	9,043	13,492	17,829	22,090	26,434	31,261	35,422	39,513	43,746
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	5,313	10,383	15,493	20,470	25,363	30,351	35,893	40,669	45,367	50,229
	3000K Lumens	5,024	9,817	14,647	19,354	23,980	28,696	33,936	38,452	42,893	47,490
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	5,411	10,574	15,778	20,848	25,830	30,911	36,554	41,418	46,202	51,154
	3000K Lumens	5,117	9,997	14,917	19,710	24,421	29,225	34,561	39,160	43,682	48,364
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	4000K/5000K Lumens	5,426	10,603	15,820	20,903	25,899	30,992	36,652	41,529	46,325	51,290
	3000K Lumens	5,130	10,025	14,958	19,763	24,486	29,302	34,654	39,263	43,799	48,493
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	4,528	8,846	13,199	17,440	21,609	25,858	30,580	34,649	38,651	42,792
	3000K Lumens	4,281	8,364	12,480	16,489	20,430	24,448	28,912	32,759	36,543	40,459
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	5,265	10,289	15,353	20,285	25,134	30,077	35,569	40,303	44,958	49,775
	3000K Lumens	4,978	9,727	14,516	19,179	23,763	28,437	33,629	38,105	42,506	47,060
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
AFL	4000K/5000K Lumens	5,285	10,327	15,409	20,360	25,225	30,186	35,699	40,450	45,120	49,956
	3000K Lumens	4,996	9,763	14,569	19,249	23,849	28,540	33,752	38,244	42,659	47,232
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI



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NOMINAL POWER LUMENS (600MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Nominal Power (Watts)	34	66	96	129	162	193	226	257	290	323	
Input Current @ 120V (A)	0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89	
Input Current @ 208V (A)	0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63	
Input Current @ 240V (A)	0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43	
Input Current @ 277V (A)	0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33	
Input Current @ 347V (A)	0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99	
Input Current @ 480V (A)	0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77	
Optics											
T2	4000K/5000K Lumens	4,121	8,055	12,019	15,881	19,676	23,547	27,847	31,552	35,196	38,967
	3000K Lumens	3,896	7,615	11,363	15,015	18,604	22,263	26,328	29,831	33,276	36,842
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	4000K/5000K Lumens	4,376	8,552	12,760	16,860	20,890	24,998	29,563	33,497	37,365	41,369
	3000K Lumens	4,138	8,085	12,064	15,941	19,751	23,635	27,951	31,670	35,328	39,113
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	4000K/5000K Lumens	4,201	8,210	12,251	16,187	20,055	23,999	28,383	32,159	35,873	39,718
	3000K Lumens	3,973	7,763	11,583	15,304	18,961	22,691	26,835	30,406	33,916	37,552
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	4000K/5000K Lumens	4,294	8,393	12,523	16,546	20,501	24,532	29,014	32,875	36,671	40,600
	3000K Lumens	4,060	7,936	11,840	15,644	19,383	23,195	27,432	31,082	34,671	38,386
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	4,226	8,257	12,321	16,280	20,172	24,139	28,547	32,346	36,082	39,948
	3000K Lumens	3,996	7,807	11,649	15,392	19,071	22,822	26,990	30,582	34,114	37,770
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	4,171	8,151	12,162	16,071	19,912	23,827	28,178	31,928	35,615	39,432
	3000K Lumens	3,943	7,706	11,498	15,194	18,825	22,527	26,642	30,187	33,673	37,281
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	4000K/5000K Lumens	4,114	8,041	11,998	15,854	19,643	23,506	27,799	31,498	35,135	38,901
	3000K Lumens	3,890	7,603	11,344	14,989	18,572	22,224	26,282	29,760	33,219	36,779
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	4000K/5000K Lumens	4,200	8,209	12,249	16,184	20,053	23,996	28,379	32,154	35,869	39,712
	3000K Lumens	3,972	7,762	11,580	15,302	18,960	22,688	26,831	30,400	33,913	37,546
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	3,992	7,799	11,638	15,378	19,053	22,801	26,964	30,552	34,081	37,733
	3000K Lumens	3,774	7,374	11,003	14,539	18,015	21,557	25,493	28,886	32,222	35,674
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	4,333	8,467	12,634	16,694	20,683	24,751	29,271	33,166	36,996	40,961
	3000K Lumens	4,097	8,005	11,945	15,784	19,555	23,401	27,674	31,357	34,978	38,727
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	4,413	8,622	12,867	17,000	21,064	25,207	29,810	33,777	37,677	41,715
	3000K Lumens	4,173	8,152	12,165	16,073	19,915	23,832	28,185	31,934	35,623	39,440
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	4000K/5000K Lumens	4,424	8,646	12,900	17,046	21,120	25,274	29,890	33,866	37,778	41,826
	3000K Lumens	4,182	8,175	12,197	16,117	19,968	23,896	28,260	32,018	35,717	39,545
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	4000K/5000K Lumens	3,692	7,214	10,763	14,222	17,621	21,086	24,937	28,256	31,519	34,897
	3000K Lumens	3,491	6,820	10,176	13,447	16,660	19,937	23,577	26,715	29,800	32,994
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	4,293	8,390	12,520	16,542	20,496	24,527	29,007	32,866	36,662	40,591
	3000K Lumens	4,059	7,932	11,837	15,640	19,378	23,189	27,425	31,074	34,662	38,377
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	4000K/5000K Lumens	4,310	8,421	12,566	16,602	20,571	24,616	29,112	32,986	36,795	40,738
	3000K Lumens	4,074	7,962	11,881	15,697	19,448	23,273	27,525	31,187	34,788	38,516
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI



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Specific items and dimensions subject to change without notice.

CONTROL OPTIONS

0-10V (DIM)

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

Photocontrol (P, R and PER7)

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

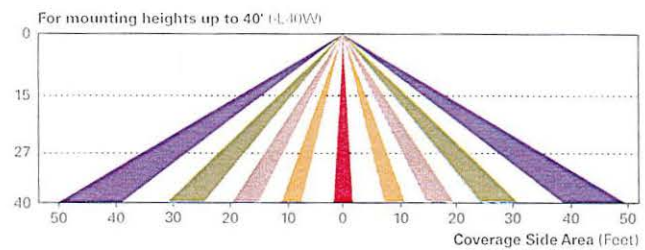
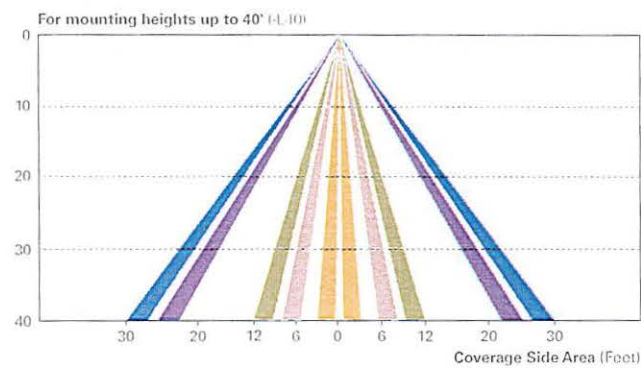
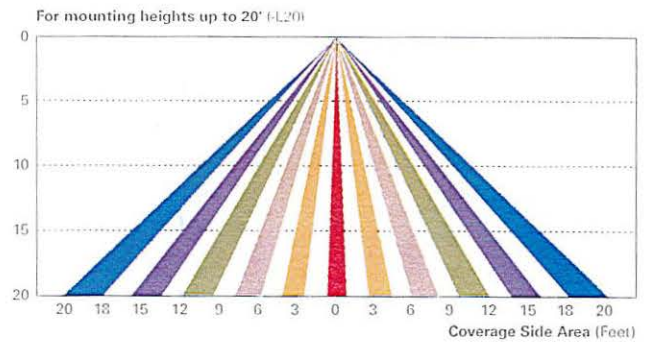
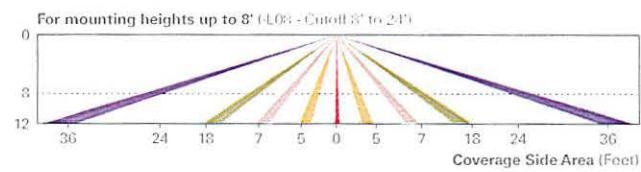
After Hours Dim (AHD)

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

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

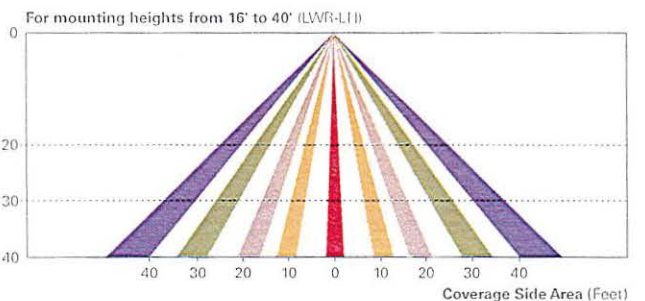
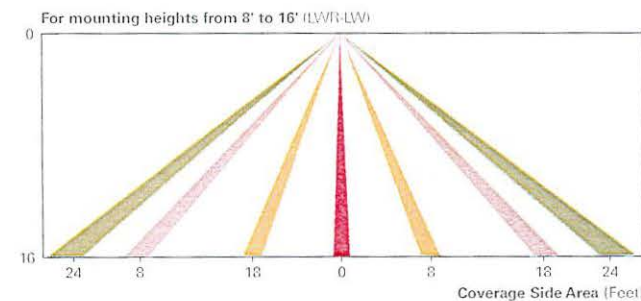
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The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

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



LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)

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



WaveLinX Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)

Eaton brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.



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Specifications and dimensions subject to change without notice.


ORDERING INFORMATION

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

Product Family 1,2	Light Engine	Number of Light Squares 3	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 4 06=6 07=7 5 08=8 5 09=9 6 10=10 6	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V 7 480=480V 7,8	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm 9 MA=Mass Arm Adapter 9 WM=Wall Mount QM=Quick Mount Arm (Standard Length) 11 QMEA=Quick Mount Arm (Extended Length) 12
Options (Add as Suffix)						Accessories (Order Separately)	
7027=70 CRI 2700K 13 7030=70 CRI 3000K 13 8030=80 CRI 3000K 13 7050=70 CRI 5000K 13 7060=70 CRI 6000K 13 600=Drive Current Set to Nominal 600mA 15 800=Drive Current Set to Nominal 800mA 15 1200=Drive Current Set to Nominal 1200mA 15,16 F=Single Fuse (120, 277 or 347V. Specify Voltage) FF=Double Fuse (208, 240 or 480V. Specify Voltage) 2L=Two Circuits 17,18 DIM=External 0-10V Dimming Leads 19,20 AHD145=After Hours Dim, 5 Hours 21 AHD245=After Hours Dim, 6 Hours 21 AHD255=After Hours Dim, 7 Hours 21 AHD355=After Hours Dim, 8 Hours 21 HA=50°C High Ambient 23 L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Installed Mesh Top TH=Tool-less Door Hardware HSS=Installed House Side Shield 24 CE=CE Marking 29 LCF=Light Square Trim Painted to Match Housing 27			P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) 21 PER7=NEMA 7 PIN Photocontrol Receptacle 21 R=NEMA Photocontrol Receptacle 21 MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height 24 MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height 24 MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height 24 MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height 24 MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height 24 MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height 24,25 MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height 24,25 MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height 24,25 MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height 24 LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 3' - 16' Mounting Height 26 LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height 26 ZW=WaveLinx-enabled 4-PIN Twistlock Receptacle 29,33 ZW-SWPD4WH=WaveLinx Wireless Sensor, 7' - 15' Mounting Height, White 29,33 ZW-SWPD4BZ=WaveLinx Wireless Sensor, 7' - 15' Mounting Height, Bronze 29,33 ZW-SWPD5WH=WaveLinx Wireless Sensor, 15' - 40' Mounting Height, White 29,33 ZW-SWPD5BZ=WaveLinx Wireless Sensor, 15' - 40' Mounting Height, Bronze 29,33			OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Sharding Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=2" 90° Tonon Adapter for 2.3:3" O.D. Tonon MA1037-XX=2" 180° Tonon Adapter for 2.3:3" O.D. Tonon MA1197-XX=3" 120° Tonon Adapter for 2.3:3" O.D. Tonon MA1189-XX=4" 90° Tonon Adapter for 2.3:3" O.D. Tonon MA1189-XX=2" 90° Tonon Adapter for 2.3:3" O.D. Tonon MA1190-XX=3" 90° Tonon Adapter for 2.3:3" O.D. Tonon MA1191-XX=2" 120° Tonon Adapter for 2.3:3" O.D. Tonon MA1038-XX=Single Tonon Adapter for 3-1/2" O.D. Tonon MA1039-XX=2" 180° Tonon Adapter for 3-1/2" O.D. Tonon MA1192-XX=3" 120° Tonon Adapter for 3-1/2" O.D. Tonon MA1193-XX=4" 90° Tonon Adapter for 3-1/2" O.D. Tonon MA1194-XX=2" 90° Tonon Adapter for 3-1/2" O.D. Tonon MA1195-XX=3" 90° Tonon Adapter for 3-1/2" O.D. Tonon FSIR-100=Wireless Configuration Tool for Occupancy Sensor 24 GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit 11 GLEON-QMEA=Quick Mount Extended Arm Kit 12 LS/HSS=Field Installed House Side Shield 24,29 WOLC-7P-10A=WaveLinx Outdoor Control Module 29,33 SWPD4-WH=WaveLinx Wireless Sensor, 7' - 15' Mounting Height, White 29,33,34 SWPD4-BZ=WaveLinx Wireless Sensor, 7' - 15' Mounting Height, Bronze 29,33,34 SWPD5-WH=WaveLinx Wireless Sensor, 15' - 40' Mounting Height, White 29,33,34 SWPD5-BZ=WaveLinx Wireless Sensor, 15' - 40' Mounting Height, Bronze 29,33,34	

NOTES:
 1 Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP512001EN for additional support information. 2 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3 Standard 4000K CCT, and minimum 70 CRI. 4 Not compatible with MS4-LXX or MS-1-LXX sensors. 5 Not compatible with extended quick mount arm (QMEA). 6 Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA). 7 Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three-Phase Three-Wire Delta, Three-Phase High Leg Delta and Three-Phase Corner Grounded Delta systems). 9 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10 Factory installed. 11 Maximum 8 light squares. 12 Maximum 6 light squares. 13 Extended lead times apply. Use dedicated ILS files for 2700K, 3000K, 5000K and 6000K when performing layouts. 14 Reserved 15 1 Amp standard. Use dedicated ILS files for 600mA, 800mA and 1200mA when performing layouts. 16 Not available with HA option. 17 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 18 Not available with LumaWatt Pro wireless sensors. 19 Cannot be used with other control options. 20 Low voltage control lead brought out 18" outside fixture. 21 Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. 22 Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 23 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents. 24 The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, on/off and more. Consult your lighting representative at Eaton for more information. 25 Replace X with number of Light Squares operating in low output mode. 26 LumaWatt Pro wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information. 27 Not available with house side shield (HSS). 28 Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected. 29 CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only. 30 One required for each Light Square. 31 Requires PER7. 32 Reserved. 33 WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 34 Requires ZW. 35 Reserved.

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology 	D=Dome Camera, Standard H=Dome Camera, Hi-Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking

*Consult LumenSafe system pages for additional details and compatibility.



Eaton
 101 Holladay, 11 South
 B, Suite 100, 45700
 P 216.486.1000
 www.eaton.com/lighting

Specify photo and data backhaul options by changing without notice.

McGraw-Edison

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightSquares technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

Catalog #		Type
Project		OB
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Optics

Choice of 10 patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 5700K CCT.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting

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

Finish

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

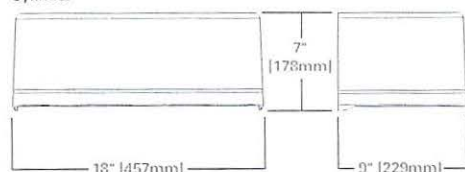
Warranty

Five-year warranty.

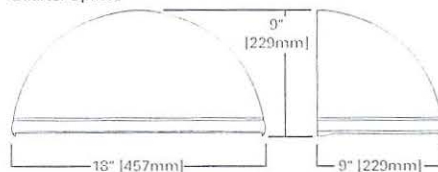


DIMENSIONS

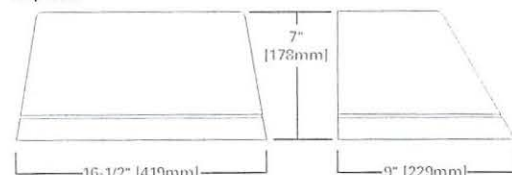
Cylinder



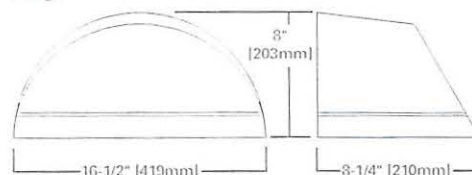
Quarter Sphere



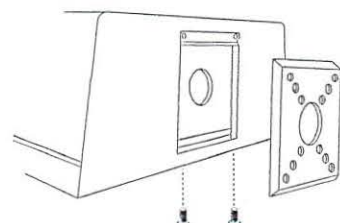
Trapezoid



Wedge



HOO-K-N-LOCK MOUNTING



*www.designlights.org

ISC/ISS/IST/ISW IMPACT ELITE LED

1 LightSquare
Solid State LED

WALL MOUNT LUMINAIRE

CERTIFICATION DATA

UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightSquare
DesignLights Consortium™ Qualified*
ISO 9001

ENERGY DATA

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

SHIPPING DATA

Approximate Net Weight:
18 lbs. (8 kgs.)



TD514030EN
July 23, 2019 4:13 PM

POWER AND LUMENS

1 LightSquare (AF)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120-277V	20.3	25.5	33.4	43.0	55.1	66.2	20.3	25.5	33.4	43.9	55.1	66.2
Current (A)	120V	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics													
T2	Lumens	2,390	3,001	3,915	4,901	5,793	6,592	2,555	3,208	4,185	5,239	6,193	7,047
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
T3	Lumens	2,440	3,063	3,996	5,001	5,912	6,728	2,561	3,216	4,195	5,251	6,207	7,063
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
T4FT	Lumens	2,414	3,031	3,955	4,950	5,851	6,658	2,589	3,250	4,240	5,308	6,274	7,139
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2
T4W	Lumens	2,441	3,065	3,998	5,004	5,916	6,732	2,557	3,211	4,189	5,244	6,198	7,053
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL2	Lumens	2,309	2,899	3,782	4,734	5,596	6,368	2,469	3,100	4,044	5,062	5,983	6,809
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
SL3	Lumens	2,271	2,851	3,719	4,656	5,503	6,262	2,419	3,038	3,963	4,961	5,864	6,673
	BUG Rating	B0-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B0-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2
SL4	Lumens	2,158	2,710	3,535	4,425	5,230	5,951	2,286	2,870	3,744	4,686	5,539	6,303
	BUG Rating	B0-U0-G1	B0-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B0-U1-G1	B0-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2
SLL/SLR	Lumens	2,036	2,555	3,334	4,174	4,934	5,614	2,204	2,767	3,610	4,419	5,341	6,078
	BUG Rating	B0-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U1-G1	B1-U1-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
RW	Lumens	2,435	3,057	3,987	4,992	5,900	6,715	2,521	3,166	4,130	5,170	6,111	6,954
	BUG Rating	B1-U0-G0	B2-U0-G0	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B1-U1-G1	B2-U1-G1	B2-U1-G1	B2-U1-G1	B2-U1-G1	B3-U1-G1

LUMEN MAINTENANCE

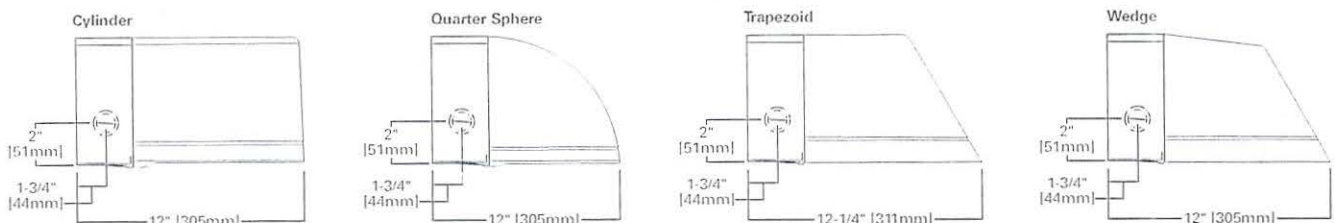
Current	Ambient Temperature	25000 Hours*	50000 Hours*	60000 Hours*	100000 Hours*	Theoretical L70 (Hours)*
Up to 1.2A	Up to 40°C	>95%	>91%	>90%	>83%	20,4000

*Data calculated based on TM-21 calculator.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

THRUWAY BACK BOX



Eaton
1171 Holladay, 21st South,
Dayton, Ohio, 45424-0001
P: 1-800-487-4300
www.eaton.com/ledlighting

Specifications and dimensions subject to change without notice.

CONTROL OPTIONS

0-10V

This fixture is offered standard with 0-10V dimming driver.

Photocontrol (PC1, PC2 and PER7)

Optional button-type photocontrol provides a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels.

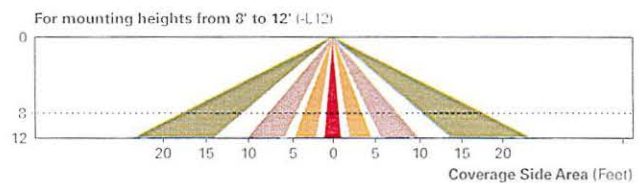
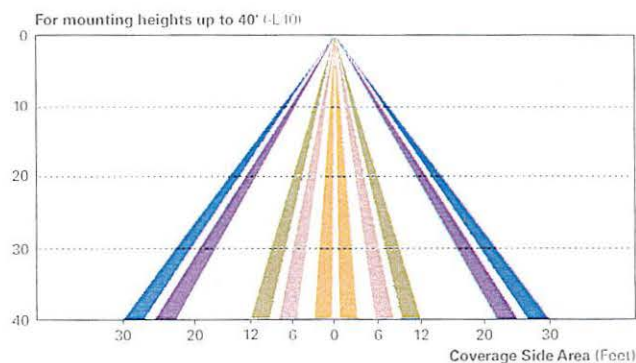
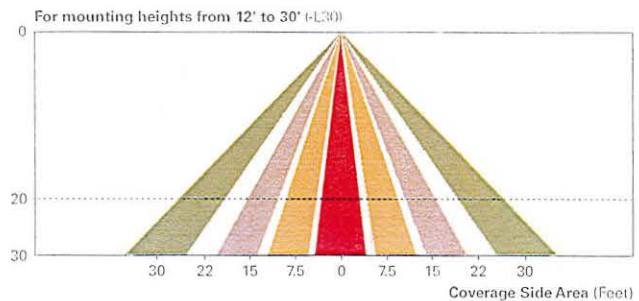
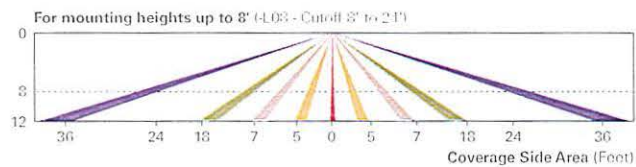
After Hours Dim (AHD)

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

Dimming Occupancy Sensor (MS/DIM-LXX)

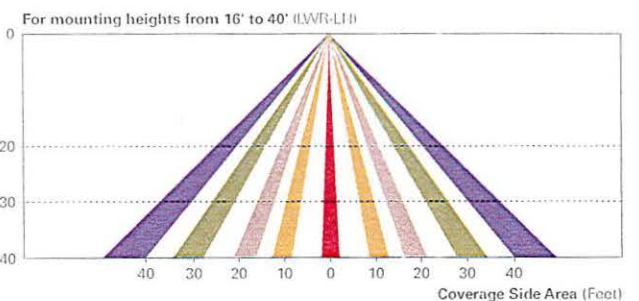
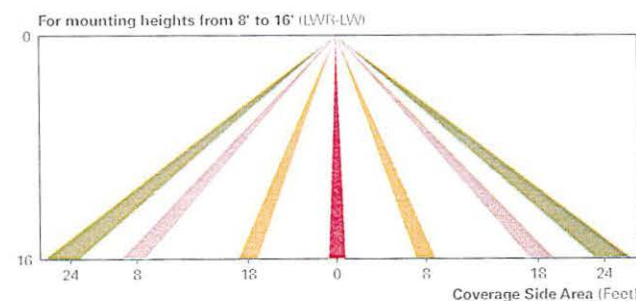
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes.

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



LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)

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



WaveLinX Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.



Eaton
1121 Highway 20 South
Fountain Valley, CA 92708
P: 714.466.4000
www.eaton.com/lighting

For literature and
demonstrator, contact
sales@eaton.com

ORDERING INFORMATION

Sample Number: ISC-AF-1200-LED-E1-T3-BZ

Product Family ¹	Light Engine	Drive Current	Lamp Type	Voltage	Distribution	Color
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Wedge	AF=(1) LightSquare	350=Drive Current Factory Set to 350mA 450=Drive Current Factory Set to 450mA 600=Drive Current Factory Set to 600mA 800=Drive Current Factory Set to 800mA 1000=Drive Current Factory Set to 1000mA 1200=Drive Current Factory Set to 1200mA ²	LED=Solid State Light Emitting Diodes	E1=Electronic (120-277V) 347=347V ² 480=480V ^{2,3}	T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Options (Add as Suffix)			Accessories (Order Separately) ¹⁷			
7027=70 CRI / 2700K CCT ⁴ 7030=70 CRI / 3000K CCT ⁴ 7050=70 CRI / 5000K CCT ⁴ 7060=70 CRI / 5700K CCT ⁴ 8030=80 CRI / 3000K CCT ⁴ PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle ^{2,5,6} P=Button Type Photocontrol (Available in 120, 208, 240 or 277V. Must Specify Voltage) ^{2,6} HA=50°C High Ambient ⁷ AHD145=After Hours Dim, 5 Hours, 50%, ⁸ AHD245=After Hours Dim, 6 Hours, 50%, ⁸ AHD255=After Hours Dim, 7 Hours, 50%, ⁸ AHD355=After Hours Dim, 8 Hours, 50%, ⁸ MS/DIM-LXX=Motion Sensor for Dimming Operation ^{9,10,11} LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ^{6,11,12} LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{6,11,12} BBB=Battery Pack with Back Box (Specify 120V or 277V) ¹³ CWB=Cold Weather Battery Pack with Back Box (Specify 120V or 277V) ¹⁴ LCF=LightSquare Trim Plate Matches Housing Finish HSS=Factory Installed House Side Shield ¹⁵ ULG=Uplight Glow ^{5,6} TR=Tamper Resistant Hardware X=Driver Surge Protection (6kV) Only ¹⁶ ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle ^{19,20} ZW-SWPD4WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White ^{19,20} ZW-SWPD4BZ=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, Bronze ^{19,20} ZW-SWPD5WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White ^{19,20} ZW-SWPD5BZ=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, Bronze ^{19,20}			MA1253=10kV Circuit Module Replacement MA1254-XX=Thruway Back Box - Impact Elite Trapezoid MA1255-XX=Thruway Back Box - Impact Elite Cylinder MA1256-XX=Thruway Back Box - Impact Elite Quarter Sphere MA1257-XX=Thruway Back Box - Impact Elite Wedge FSIR-100=Wireless Configuration Tool for Occupancy Sensor WOLC-7P-10A=WaveLinx Outdoor Control Module (7-pin) ^{18,19} SWPD4-WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White ^{19,20,21} SWPD4-BZ=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, Bronze ^{19,20,21} SWPD5-WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White ^{19,20,21} SWPD5-BZ=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, Bronze ^{19,20,21}			

- NOTES:
- Standard 4000K CCT and greater than 70 CRI.
 - Not available with ULG option.
 - Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
 - Extended lead times apply.
 - Not available with ISS or ISW.
 - Not available with LWR-XX or MS/DIM-LXX.
 - Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1A or less.
 - Requires the use of P photocontrol or the PER7 photocontrol receptacle with photocontrol accessory. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information.
 - Specify lens in place of XX. Round to next highest option based on mounting height. Available options are 08, 20 and 40W.
 - The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
 - Includes integral photocell.
 - LumaWatt Pro wireless sensors are factory installed and requiring network components in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information.
 - LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates daylight for 90-minutes.
 - LED cold weather integral battery pack is rated for minimum operating temperature -24°F (-20°C). Operates daylight for 90-minutes.
 - Only for use with SL2, SL3 and SL4 distributions. The LightSquare trim plate is painted black when the HSS option is selected.
 - Requires additional surge module.
 - Specify color in place of XX.
 - Requires PER7.
 - Cannot be used in conjunction with photocontrol or other controls systems (P, B, MS, LWR).
 - WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
 - Requires ZW.



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For technical and
dimensional impact to
change without notice.

DESCRIPTION

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

SPECIFICATION FEATURES

Construction

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

Optical

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

Electrical

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

Catalog #		Type
Project		OC, OC1, OC2 & OC3
Comments		Date
Prepared by		

electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

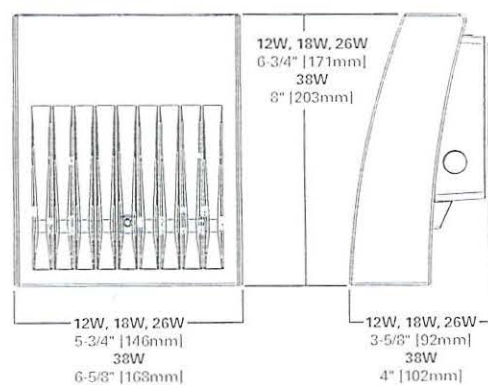
Five-year warranty.



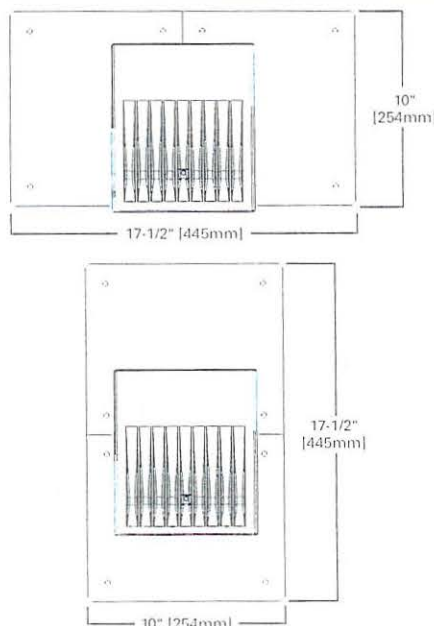
XTOR CROSSTOUR LED

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

DIMENSIONS



ESCUTCHEON PLATES



CERTIFICATION DATA
UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
ADA Compliant
NOM Compliant Models
IP66 Ingressed Protection Rated
Title 24 Compliant
DesignLights Consortium™ Qualified*

TECHNICAL DATA
40°C Maximum Ambient Temperature
External Supply Wiring 00°C Minimum

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

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

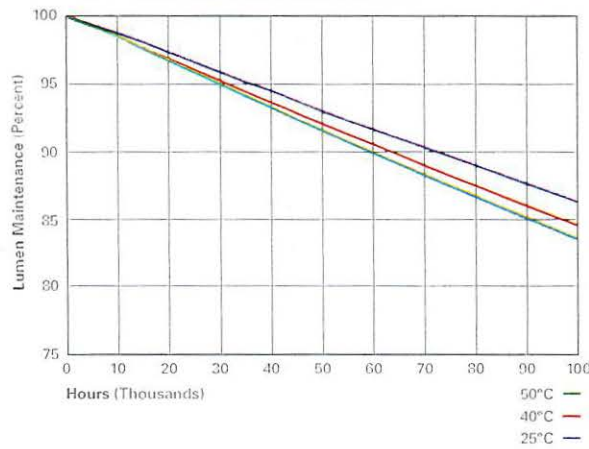
POWER AND LUMENS BY FIXTURE MODEL

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

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

LUMEN MAINTENANCE

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



CURRENT DRAW

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

ORDERING INFORMATION

Sample Number: XTOR2B-W-WT-PC1

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

NOTES:

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

STOCK ORDERING INFORMATION

12W Series	18W Series	26W Series	38W Series
XTOR1B=12W, 5000K, Carbon Bronze	XTOR2B=18W, 5000K, Carbon Bronze	XTOR3B=26W, 5000K, Carbon Bronze	XTOR4B=38W, 5000K, Carbon Bronze
XTOR1B-WT=12W, 5000K, Summit White	XTOR2B-W=18W, 4000K, Carbon Bronze	XTOR3B-W=26W, 4000K, Carbon Bronze	XTOR4B-W=38W, 4000K, Carbon Bronze
XTOR1B-PC1=12W, 5000K, 120V PC, Carbon Bronze	XTOR2B-WT=18W, 5000K, Summit White	XTOR3B-WT=26W, 5000K, Summit White	XTOR4B-WT=38W, 5000K, Summit White
XTOR1B-W=12W, 4000K, Carbon Bronze	XTOR2B-PC1=18W, 5000K, 120V PC, Carbon Bronze	XTOR3B-PC1=26W, 5000K, 120V PC, Carbon Bronze	XTOR4B-PC1=38W, 5000K, 120V PC, Carbon Bronze
	XTOR2B-W-PC1=18W, 4000K, 120V PC, Carbon Bronze	XTOR3B-W-PC1=26W, 4000K, 120V PC, Carbon Bronze	XTOR4B-W-PC1=38W, 4000K, 120V PC, Carbon Bronze
	XTOR2B-347V=18W, 5000K, Carbon Bronze, 347V	XTOR3B-347V=26W, 5000K, Carbon Bronze, 347V	XTOR4B-347V=38W, 5000K, Carbon Bronze, 347V
	XTOR2B-WT-PC1=18W, 5000K, 120V PC, Summit White	XTOR3B-PC2=26W, 5000K, 208-277V PC, Carbon Bronze	



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For additional and
 alternative pricing,
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 distributor.