



# Technical Memo

## Fire Flow – 2809 Television Rd

Date: December 16, 2024

To: Brent Perry, President, PTF Holdings

From: Luke Parsons, P.Eng., Engage Engineering

Subject: Fire Flow for Peterborough Truss Building Addition  
2809 Television Road, Township of Douro Dummer  
Engage File No. 21085

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### Introduction

Engage Engineering has been retained by PTF Holdings to support a Site Plan Application for the proposed addition to the existing Peterborough Truss Building located at 2809 Television Road within the Township of Douro Dummer. The purpose of this memo is to provide an assessment of the fire flow requirements for the site.

### Fire Protection

The existing industrial building on the site was constructed in the mid-2000's. Fire flow calculations for the existing building are noted on the existing building design drawings prepared by K. W. Mullen, dated April 2003. An excerpt page from these building design drawings noting the fire flow calculation is attached to this memo. The calculations note a fire flow storage requirement of 343,457 L (343 m<sup>3</sup>) or 75,570 gallons (imperial gallons). A fire storage tank (cistern) was placed under the office area of the existing building, in the southwest corner of the existing building. A dry hydrant standpipe is located on the western wall of the existing building, as illustrated on the proposed Grading and Servicing Plan (attached to this memo). The existing cistern and suction pipe details are also attached to this memo. According to the Owner, the existing tank has a volume of 75,000 gallons.

Additional fire storage will be required for the proposed building addition to ensure an adequate volume of water is available for fire suppression. The proposed building addition will be attached to the existing building, and there is no fire separation between the proposed building area and the existing building area. The storage tank volume is supported by fire flow calculations; the calculations are based on the 'Building Code Compendium' manual prepared by Ministry of Municipal Affairs and Housing Building and Development Branch (OBC) dated 2012.

According to the architectural drawings (attached to this memo) the building addition is classified as non-combustible construction with no-sprinklers and no exposure on all sides. According to the building drawings, the proposed addition is classified as F2. A fire flow demand was determined as shown in the calculations attached to this memo. The total fire flow volume for the building addition was determined based on the Buildings Requiring On-Site Water Supply formula in the OBC manual.

The on-site water supply formula (1) utilizes the following in the OBC manual:

$$Q = K * V * S_{tot}$$

$$Q = 17 * 19,983m^3 * 1.0$$

$$Q = 340,000L$$

Where:

- K = Water Supply Coefficient (Table 1)
- V = Building Volume in m<sup>3</sup>
- S<sub>tot</sub> = Spatial Coefficient values (Figure 1)

\*Detailed calculations are attached to this memo.

According to Table 2: Minimum Water Supply Flow Rates (attached), the minimum flow rate required is 9,000 L/min. The 340,000L required volume is for the proposed building addition only, and is in addition to the existing storage volume on site. The total storage volume required for the existing and proposed building areas is approximately 683,500 L or 683.5 m<sup>3</sup>.

### **Storage Tank and Dry Hydrant**

The Owner has decided to install a tank with a volume of at least 683.5 m<sup>3</sup> beneath the proposed building, which will have enough fire storage for the entire existing and proposed building. The existing 340 m<sup>3</sup> fire storage tank and stand pipe will remain under the existing building, and will not be connected to the proposed tank.

The proposed storage tank will be placed under the north area of the proposed building addition. The tank will be designed by the building designer, Bel-Con, and will be illustrated on the building permit drawings.

In discussion with the Township of Douro Dummer Fire Chief, the Township would prefer a dry hydrant located away from the building, outside of the potential collapse zone associated with the building. A dry hydrant has been proposed to the northwest of the proposed building, and will be connected to the fire storage tank with a pipe near the northwest area of the building. Insulation is proposed around the dry hydrant in an effort to eliminate any freezing that may occur within the dry hydrant or pipe. The exact tank design has not been completed, but it is expected that the water elevation within the tank and dry hydrant pipe will be approximately 0.6m below the ground elevation at the location of the proposed dry hydrant. A standpipe has also been proposed on the building addition, near the northwest corner of the proposed addition. The proposed dry hydrant, pipe and insulation details are illustrated on the proposed Grading and Servicing Plan.

### **Conclusion**

In conclusion, a storage tank with a volume of at least 683.5 m<sup>3</sup> will be constructed beneath the proposed building addition, and will be connected to a dry hydrant to the northwest of the proposed building addition. Supporting calculations that reference the OBC manual are included in this memo.

Attachments:

OBC Fire Flow Sheets

OBC Fire Flow Calculation prepared by Engage Engineering dated November 26, 2024

Peterborough Truss & Floor Limited – Original Building Design Drawings, Fire Flow Calculation Sheet and Fire Storage Tank Design, prepared by K. W. Mullen dated April 2003

Proposed Grading and Servicing Plan prepared by Engage Engineering dated January 3, 2025

Building Design Drawings prepared by Bel-Con dated September 13, 2024

**Group B, Division 2**

Facilities for people with developmental disabilities  
Homes for the aged  
Hospitals  
Infirmaries  
Long term care  
Nursing homes  
Psychiatric hospitals without detention quarters  
Reformatory without detention quarters  
Sanatoria without detention quarters

**Group B, Division 3** (See also Sentence 3.1.2.5.(1).)

Children's custodial homes  
Convalescent homes  
Group homes for people with developmental disabilities  
Residential care facilities  
Sanatoria without detention quarters

**Group C**

Apartments  
Boarding houses  
Camps for housing workers  
Clubs, residential  
Colleges, residential  
Convents  
Dormitories  
Group homes  
Halfway houses, drug and alcohol treatment  
Hostels  
Hotels  
Houses  
Lodging houses  
Monasteries  
Motels  
Open and semi-secure detention for youth  
Recreational camps  
Rooming houses  
Schools, residential  
Shelters for homeless  
Shelters for women

**Group D**

Banks  
Barber and hairdressing shops  
Beauty parlours  
Dental offices  
Dry cleaning establishments, self-service, not using flammable or explosive solvents or cleaners  
Laundries, self-service  
Medical offices  
Offices  
Police stations without detention quarters  
Radio stations  
Small tool and appliance rental and service establishments

**Group E**

Department stores  
Exhibition halls  
Markets  
Restaurants with an occupant load not more than 30 persons consuming food and drink  
Shops  
Stores  
Supermarkets

**Group F, Division 1**

Bulk plants for flammable liquids  
Bulk storage warehouses for hazardous substances  
Cereal mills  
Chemical manufacturing or processing plants  
Distilleries  
Dry cleaning plants using flammable or explosive solvents or cleaners  
Feed mills  
Flour mills  
Grain elevators  
Lacquer factories  
Paint, varnish and pyroxylin product factories  
Rubber processing plants  
Spray painting operations

**Group F, Division 2**

Aircraft hangars  
Cold storage plants  
Dry cleaning establishments not using flammable or explosive solvents or cleaners  
Electrical substations  
Freight depots  
Helicopter landing areas on roofs  
Laboratories  
Laundries, except self-service  
Planing mills  
Printing plants  
Repair garages  
Self-service storage buildings  
Service stations  
Storage rooms  
Television studios not admitting a viewing audience  
Tire storage  
Warehouses  
Woodworking factories

**Group F, Division 3**

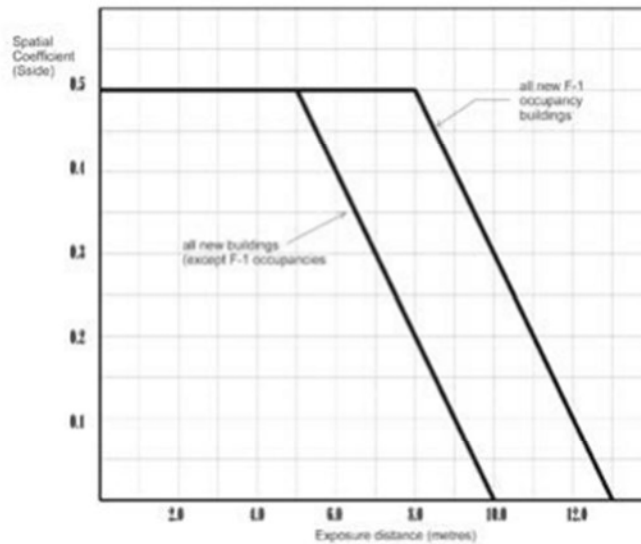
Creameries  
Laboratories  
Power plants  
Storage garages, including open air parking garages  
Storage rooms  
Warehouses

Table 1					
Water Supply Coefficient - K					
Type of Construction	Classification by Group or Division in Accordance with Table 3.1.2.1. of the Building Code				
	A-2 B-1 B-2 B-3 C D	A-4 F-3	A-1 A-3	E F-2	F-1
Building is of noncombustible construction with fire separations and fire-resistance ratings provided in accordance with Subsection 3.2.2., including loadbearing walls, columns and arches.	10	12	14	17	23
Building is of noncombustible construction or of heavy timber construction conforming to Article 3.1.4.6. Floor assemblies are fire separations but with no fire-resistance rating. Roof assemblies, mezzanines, loadbearing walls, columns and arches do not have a fire-resistance rating.	16	19	22	27	37
Building is of combustible construction with fire separations and fire-resistance ratings provided in accordance with Subsection 3.2.2., including loadbearing walls, columns and arches. Noncombustible construction may be used in lieu of fire-resistance rating where permitted in Subsection 3.2.2.	18	22	25	31	41
Building is of combustible construction. Floor assemblies are fire separations but with no fire-resistance rating. Roof assemblies, mezzanines, loadbearing walls, columns and arches do not have a fire-resistance rating.	23	28	32	39	53
Column 1	2	3	4	5	6

Table 2	
Part 3 Buildings under the Building Code	Required Minimum Water Supply Flow Rate, L/min
One-storey building with building area not exceeding 600 m <sup>2</sup>	1 800
All other buildings	2 700 (if $Q \leq 108\,000\text{ L}^{(1)}$ ) 3 600 (if $Q > 108\,000\text{ L}$ and $\leq 135\,000\text{ L}^{(1)}$ ) 4 500 (if $Q > 135\,000\text{ L}$ and $\leq 162\,000\text{ L}^{(1)}$ ) 5 400 (if $Q > 162\,000\text{ L}$ and $\leq 190\,000\text{ L}^{(1)}$ ) 6 300 (if $Q > 190\,000\text{ L}$ and $\leq 270\,000\text{ L}^{(1)}$ ) 9 000 (if $Q > 270\,000\text{ L}^{(1)}$ )

## Notes to Table 2:

(1)  $Q = KVS_{ut}$  as referenced in Paragraph 3(a)




**Figure 1**  
**Spatial Coefficient vs Exposure Distance**

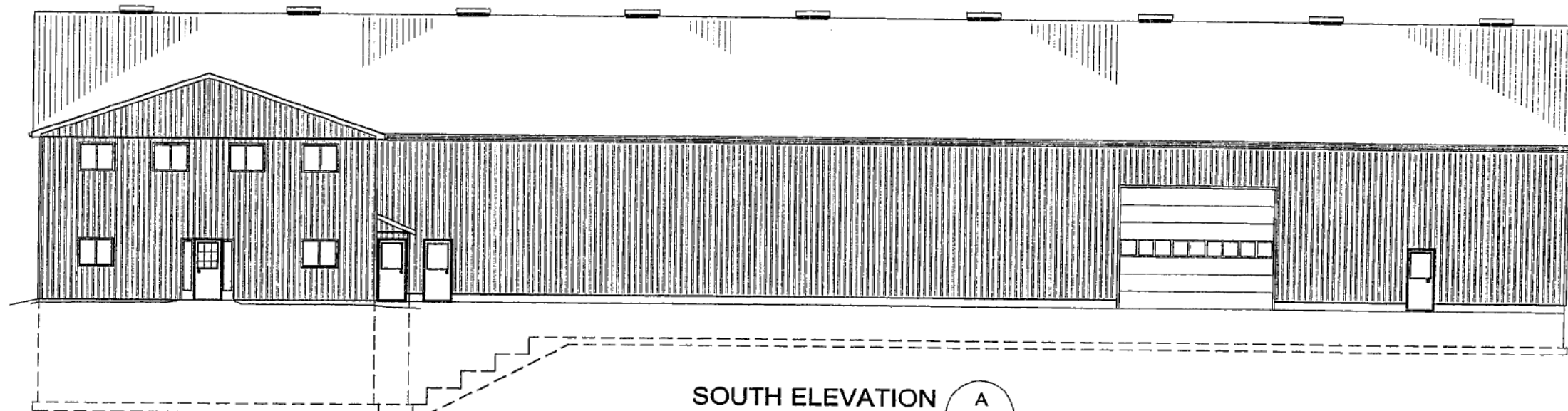
Further clarification of intent and sample problems and solutions are contained in the "Fire Protection Water Supply Guideline for Part 3 in the Ontario Building Code". This guideline may be obtained through the Office of the Fire Marshal's web site at: "[www.ofm.gov.on.ca](http://www.ofm.gov.on.ca)"

# Preliminary Fire Flow Calculations

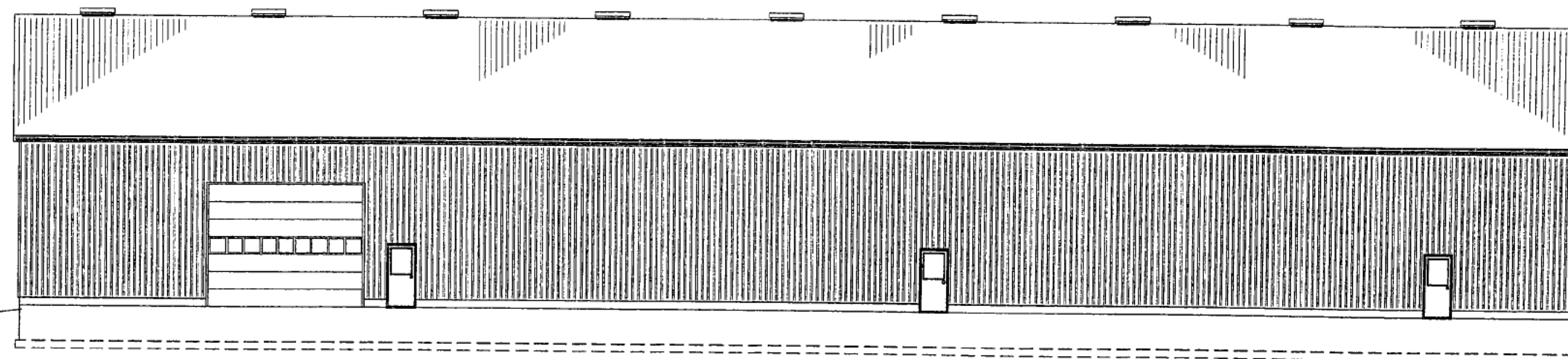
## Peterborough Truss Addition - OBC Calculations



Project Name:	2809 Television Road	Designed By:	LP
Project No:	21085	Date:	2024-11-27
Criteria			
Ontario Building Code			
Section A3.2.5.7.			
Q = KVS <sub>Tot</sub>			
Q = minimum supply of water in litres (L)			
K = water supply coefficient from Table 1			
V = total building volume in cubic metres			
S <sub>tot</sub> = total of spatial coefficient values from property line exposures on all sides			
Calculations			
S <sub>Tot</sub>			
S <sub>tot</sub> = 1.0 + [(S <sub>side1</sub> ) + (S <sub>side2</sub> ) + (S <sub>side3</sub> ) + ...]			
= 1.0 + 0			
S <sub>tot</sub> = 1.0			
K			
Occupancy classification F2			
Non-combustible construction			
K = 17			
V			
V = Area (m <sup>2</sup> ) x Height (m) = Volume (m <sup>3</sup> )			
Building Volume = 2289.0 x 7.3 = 16709.7 m <sup>3</sup>			
Building Truss Volume = 2289.0 x 2.9 = 3273.3 m <sup>3</sup>			
Total Volume = 19,983 m <sup>3</sup>			
* Truss volume is divided by 2 to represent triangular volume			
Minimum Water Supply (L)			
Q = KVS			
= 339,710 L			
Q = 340,000 L			
Minimum Flow Rate			
From Table 2: Minimum Water Supply Flow Rates (L/min)			
F = 9,000 L/min			
Notes			




**SOUTH ELEVATION** (A)  
SCALE 1/16"=1'-0" S1



**NORTH ELEVATION** (B)  
SCALE 1/16"=1'-0" S1



tel:705-953-9545 fax:705-953-9651

 <b>AGRO-DESIGN CONSTRUCTION Ltd.</b>				<b>K. W. MULLEN P.Eng.</b> <i>Professional Engineer</i> R. R. # 2, OAKWOOD, ONTARIO KOM 2M0					
<b>PETERBOROUGH TRUSS &amp; FLOOR LIMITED</b> Television Road, Peterborough				PROJECT 108' x 180' INDUSTRIAL BUILDING					
				DRAWING TITLE SIDE ELEVATIONS					
				DATE APRIL 2003		SCALE 1/16" = 1'-0"		PROJECT	
REV.		SF 192 DISK 12.1 FILE NO.		DR'N BY KEN MULLEN		SHEET 1 of 21		PROJECT 03-42	



**108' x 180' x 18' Stud Wall Truss Manufacturing Building Plans**  
Code Requirements

Building Classification: F2 medium hazard industrial

Building area: 20640 ft<sup>2</sup>

Code section: 3.2.2.70  
Facing 3 streets - maximum area 25,800 ft<sup>2</sup> - O.K.

Combustible construction and **not sprinklered**:

Roof assemblies - all ceilings  
- 45 minute fire resistance rating  
- 5/8" Type "X" gypsum board

Load bearing walls  
- 45 minute fire resistance rating  
- 1/2" Type "X" gypsum board

Second Floor - office ceiling  
- 45 minute fire resistance rating  
- 5/8" Type "X" gypsum board  
- line support beam with 5/8" Type "X" gypsum board  
- steel columns (noncombustible)

Building designed as one unit with office area part of manufacturing unit. No fire walls required.

Second floor of office area (1200 ft<sup>2</sup>) OBC 3.4.2.1, travel distance less than 82', floor area less than 2150 ft<sup>2</sup>, occupancy load less than 60, - only one exist required.

Occupancy Load:  
based on building area = 416 persons  
based on use = 30 persons

Washroom facilities based on occupancy load of 30 persons requiring building to be posted as maximum 30 persons.

Provided washroom facilities = 2 water closets per sex adequate up to 48 persons.  
Design provides 2 female plus 2 male plus handicap washroom. Extra urinal provided in mens.

**ON SITE WATER SUPPLY:**

Required volume  
Building volume = 11,079 m<sup>3</sup>  
S tot = 1.0  
Q = 31 x 11079 x 1.0  
= 343,457 litres = 75,560 gallons = 12109 ft<sup>3</sup> required.

Provided = 12163 ft<sup>3</sup> in 10'-8" storage depth.

Exits provided around perimeter as indicated on drawings. Maximum travel distance 98'-5".

Emergency lighting over each exit door with minimum 30 minute time rating.

All exit doors steel framed and rated for 45 minute rating with label on door and frame.

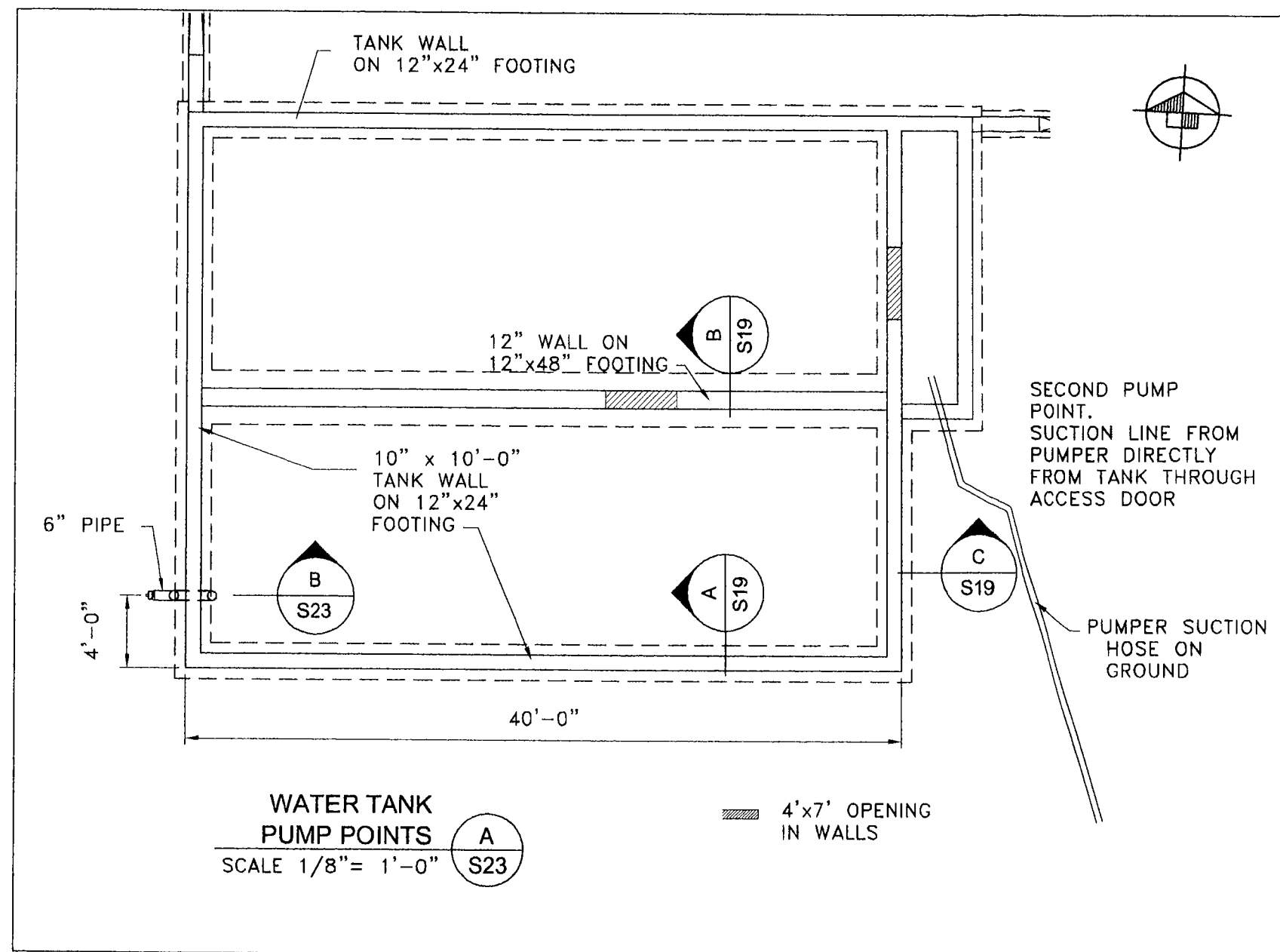
Interconnected smoke detectors at each ceiling level of office section located near stairs.

Fire extinguishers to installed throughout building in accordance with Ontario Fire Code and National Fire Code 1995 requirements.

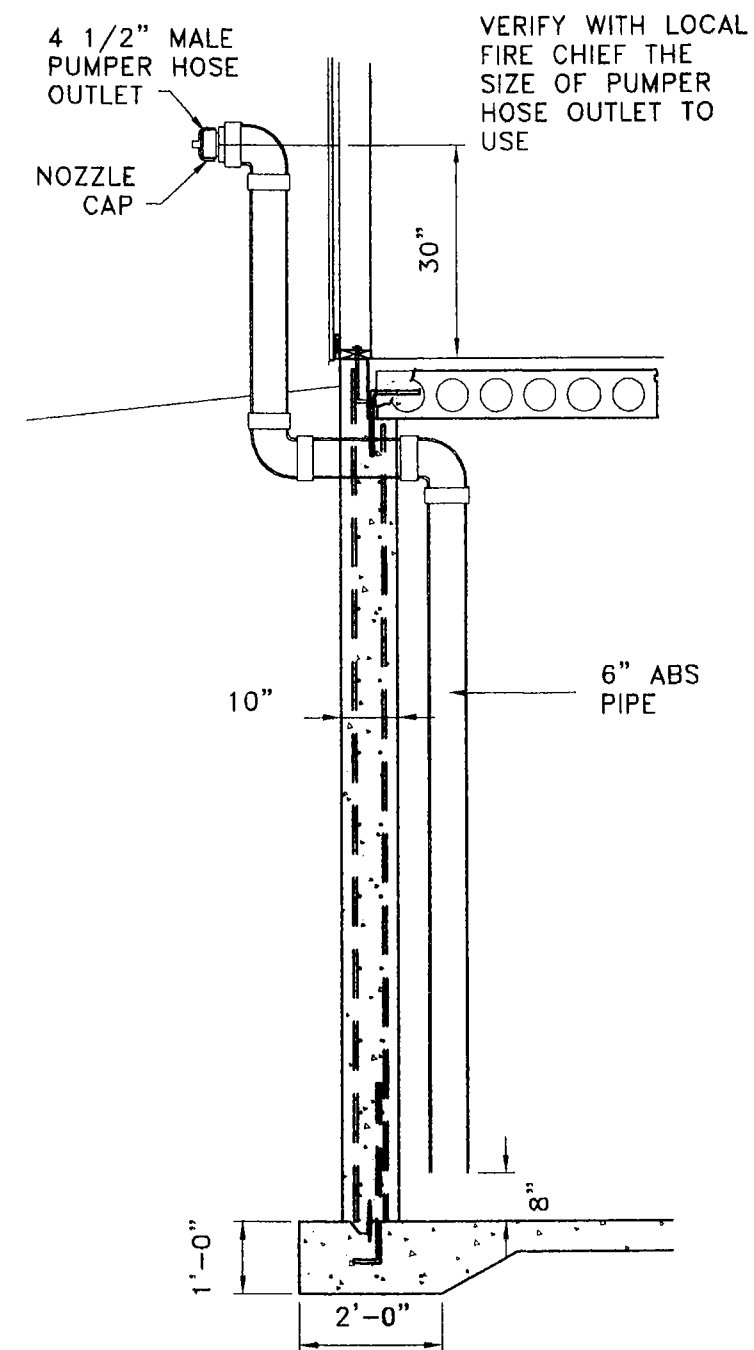
Confined area in attic to be divided with gypsum board into firestop compartments maximum area 3230 ft<sup>2</sup> and maximum length of fire compartment 65'-7". Shown on S11.



tel:705-953-9545 fax:705-953-9651	
<b>AGRO-DESIGN CONSTRUCTION Ltd.</b>	
<b>PETERBOROUGH TRUSS &amp; FLOOR LIMITED</b>	
Television Road, Peterborough	
K. W. MULLEN P.Eng. Professional Engineer R. R. # 2, OAKWOOD, ONTARIO K0M 2M0	
PROJECT 108' x 180' INDUSTRIAL BUILDING	
DRAWING TITLE CODE REQUIREMENTS	
DATE APRIL 2003	SCALE NTS
DR'N BY KEN MULLEN	SHEET 20 of 21
PROJECT 03-42	



PUMP HOOK UP BY 6" PIPE FROM TANK. CONNECTION SAME AS ON FIRE HYDRANTS FOR PUMP. VERIFY WITH FIRE CHIEF THE 4 1/2" SIZE. ALL JOINTS SEALED TO ALLOW SUCTION.



<b>AGRO-DESIGN CONSTRUCTION Ltd.</b> <b>PETERBOROUGH TRUSS &amp; FLOOR LIMITED</b> Television Road, Peterborough		tel:705-953-9545 fax:705-953-9651	
		<b>K. W. MULLEN P.Eng.</b> Professional Engineer R. R. # 2, OAKWOOD, ONTARIO K0M 2M0	
PROJECT		108' x 180' INDUSTRIAL BUILDING	
DRAWING TITLE		WATER SUPPLY CONNECTION	
DATE	APRIL 2003	SCALE	1/16" = 1'-0"
DR'N BY	KEN MULLEN	SHEET	23 of
PROJECT	03-42		

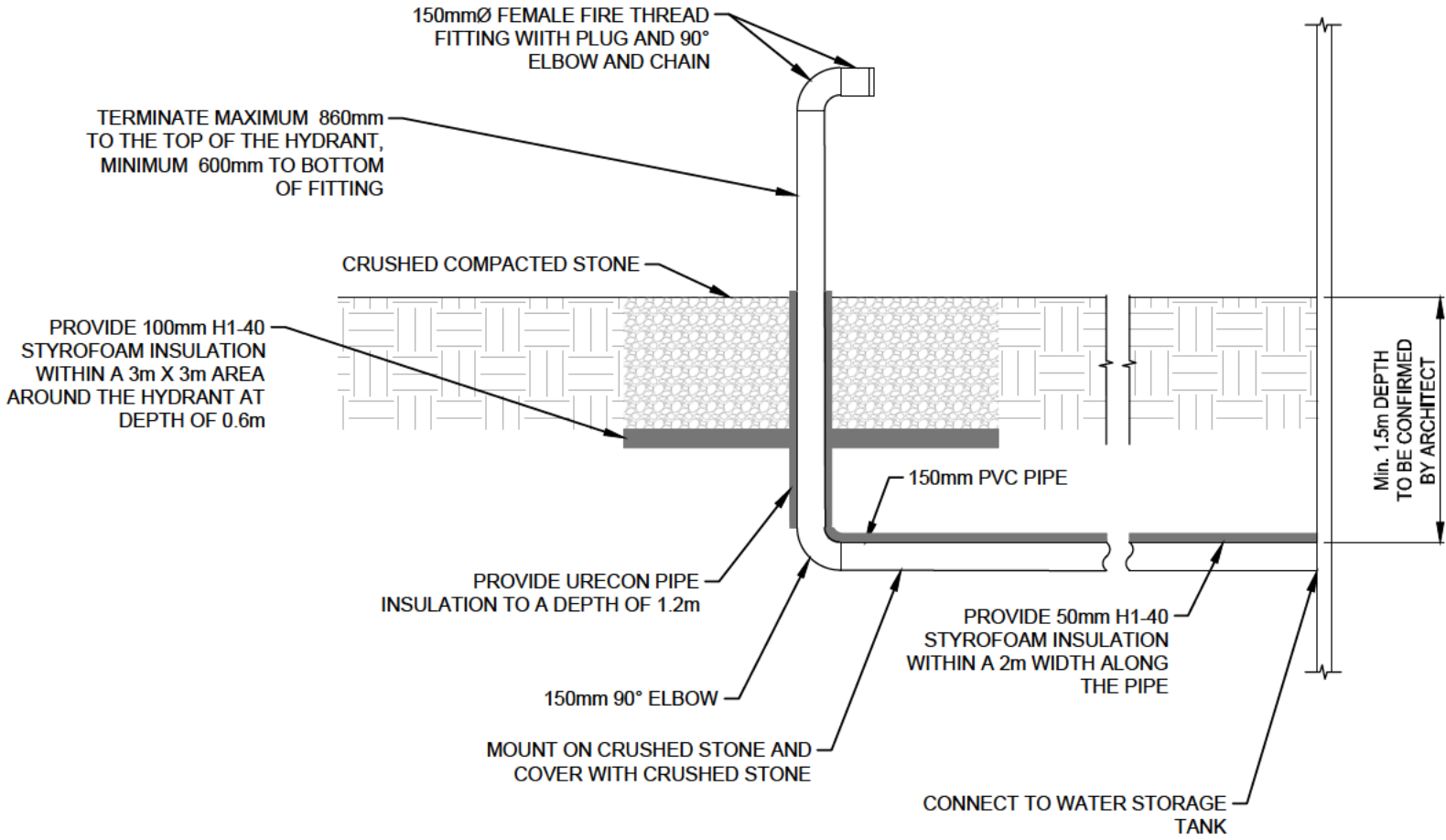
DATE	REVISION	BY
23/10/04	SHEET ADDED	KWM

REV.	SF	DISK	FILE NO.
REV. 1	SF 192	DISK 12.1	FILE NO.







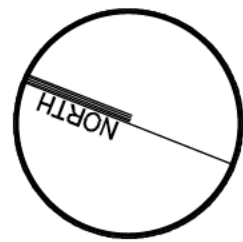


- NOTES:
1. MINIMUM 150mm PIPE, SCHEDULE 40 TO BE USED THROUGHOUT, NON-METAL ABOVE GRADE
  2. TERMINATE MAXIMUM 860mm TO THE TOP OF THE HYDRANT, MINIMUM 600mm TO BOTTOM OF FITTING (SEE NOTE 3 BELOW)
  3. TERMINATE WITH A 150mm FEMALE FIRE THREAD FITTING WITH PLUG
  4. TERMINATE DRY HYDRANT PERPENDICULAR TO THE ACCESS ROAD

1

### DRY HYDRANT DETAIL

SCALE: N.T.S.



**SURVEY**  
TOPOGRAPHIC SURVEY PROVIDED  
BY ARL SANDY WINKELING  
DATED MAY 25, 2024

**BENCHMARK**  
OUT CROSS ON TOP OF CONCRETE CURB, NORTH EASTERLY CORNER  
OF CURB ON EAST SIDE OF STORM WATER MANAGEMENT FACILITY

ELEV: 222.28m

NOTES:

2.	ISSUED FOR SPA	BR	2025-01-03
1.	NOT ISSUED IN THIS REVISION	DJ	2024-07-04
No.	REVISION	BY	DATE



2809 TELEVISION ROAD

PTF HOLDINGS

### DETAILS

TOWNSHIP OF DOUR-DUMMER

DRAWN BY: B. RAI	
DESIGNED BY: B. RAI	
APPROVED BY: L. PARSONS	
DATE: 2024-12-12	

SCALE: NTS	PROJECT NUMBER: 21085	SHEET NAME: DT	SHEET: 2 of 2
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PETERBOROUGH TRUSS & FLOOR LTD

2809 TELEVISION ROAD  
PETERBOROUGH, ON  
PROJECT NO. 2411



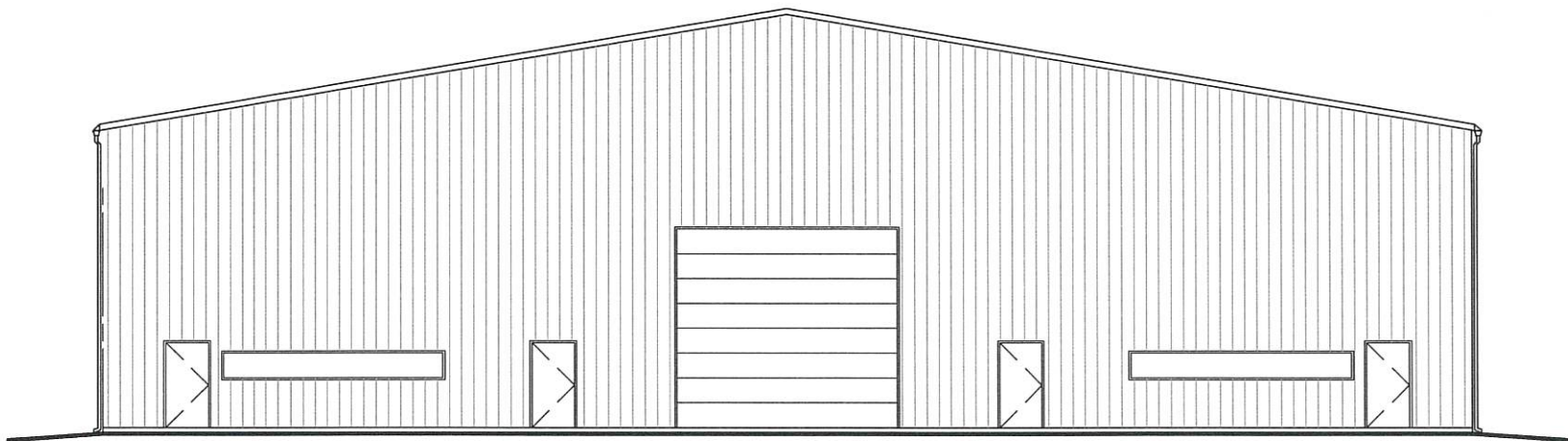
Structural (Pre-Engineered)  
BUTLER MANUFACTURING  
1540 Genessee St  
Kansas City, Missouri, 64102  
1(816) 968-3002



Project Manager  
BEL-CON DESIGN-BUILDERS LTD  
1-335 University Ave.  
Belleville, Ontario, K8N 5T7  
Tel. (613) 968-6707  
Fax. (613) 968-6700

DRAWING LIST

ARCHITECTURAL  
A0 TITLE SHEET  
A1 PLAN & ELEVATIONS



NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE, THE ONTARIO ELECTRICAL SAFETY CODE, LOCAL BY-LAWS AND ALL AUTHORITIES HAVING JURISDICTION.
- THE SUBCONTRACTOR SHALL VISIT THE SITE TO BECOME COMPLETELY FAMILIAR WITH THE SITE CONDITIONS AND LIMITATIONS PRIOR TO SUBMITTING A QUOTATION.
- THE DRAWINGS, NOTES, SCOPE OF WORK AND SPECIFICATIONS ARE COMPLIMENTARY AND TOGETHER FORM THE TOTAL WORK AS REQUIRED UNDER THIS CONTRACT.
- NO CHANGES OR ALTERATIONS SHALL BE MADE TO THE WORK AS SET OUT IN THESE DRAWINGS, NOTES, SCOPE OF WORK AND SPECIFICATIONS UNLESS SUCH CHANGES ARE CONFIRMED AND APPROVED BY BEL-CON PROJECT MANAGER.
- THE SUBCONTRACTOR SHALL ARRANGE FOR TIMELY INSPECTIONS OF THE WORK AS REQUIRED BY ALL THEIR WORK PERMITS.
- WORK (ALL LABOUR & MATERIALS) TO BE WARRANTED FOR A MINIMUM OF ONE (1) YEAR FROM THE DATE OF COMPLETION OF THE HEAD CONTRACT (OR LONGER IF REQUIRED BY PROJECT DOCUMENTS)
- THE SUBCONTRACTOR IS RESPONSIBLE TO LOOK AFTER ORGANIZING AND STORING THEIR OWN MATERIAL AND EQUIPMENT
- TIMELY ON-SITE CLEAN-UP & DISPOSAL OF SUBCONTRACTOR WASTE IS THE SOLE RESPONSIBILITY OF THE SUBCONTRACTOR AND IS INCLUDED IN THE SUBCONTRACT. THIS INCLUDES THE REMOVAL OF ALL LABELS, STICKERS AND PACKING ETC... FROM GLASS, TILE, PLUMBING AND ELECTRICAL FIXTURES ETC...
- THE SUBCONTRACTOR SHALL PROVIDE A COMPLETE CLOSE OUT PACKAGE OF ALL PLUMBING, MECHANICAL AND ELECTRICAL INSTALLATIONS AS WELL AS ANY SPECIALITY ITEMS INCLUDING REGULAR MAINTENANCE PROCEDURES TO BEL-CON PRIOR TO ACCEPTANCE.
- BEFORE THEIR CONSTRUCTION START THE SUBCONTRACTOR IS RESPONSIBLE TO ENSURE ALL GRID LINES AND ELEVATIONS ARE CORRECT. COMPARE THE ACTUAL ELEVATIONS WITH THOSE SHOWN ON THE DRAWINGS. REPORT ANY DISCREPANCIES AT ONCE TO BEL-CON.
- THE SUBCONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING ANY MATERIALS.
- THE SUBCONTRACTOR SHALL PROTECT AND MAKE GOOD ALL SURFACES, LANDSCAPING ETC... DISTURBED OR DAMAGED AS A RESULT OF THEIR WORK.
- SUBCONTRACTOR TO PROVIDE ADEQUATE PROTECTION FOR ALL EXPOSED AND UNDERGROUND SERVICES.
- REFER TO FOREFRONT DRAWINGS FOR GEODETIC ELEVATIONS

Name of Practice:  
BEL-CON DESIGN BUILDERS LTD  
1-335 UNIVERSITY AVE  
BELLEVILLE, ON  
613-968-6707

Name of Project:  
PETERBOROUGH TRUSS & FLOOR LTD

Location:  
2809 TELEVISION ROAD  
PETERBOROUGH, ON, K9L 1E9

Item	Ontario Building Code JULY 2022 UPDATE							Building Code Reference			
	Data Matrix Parts 3 or 9							References are to Division B unless noted [A] for Division A or [C] for Division C.			
1	Project Description:			<input type="checkbox"/> New <input checked="" type="checkbox"/> Addition <input type="checkbox"/> Change of Use <input type="checkbox"/> Alteration		X Part 11 11.1 to 11.4		<input type="checkbox"/> Part 3 1.1.2. [A]		<input type="checkbox"/> Part 9 1.1.2. [A] & 9.10.1.3.	
2	Major Occupancy(s) - F2							3.1.2.1.(1)		9.10.2.	
3	Building Area (m²)	Existing - 1806	New - 2289	Total - 4095		1.4.1.2. [A]		1.4.1.2. [A]			
4	Gross Area	Existing - 1806	New - 2289	Total - 4095		1.4.1.2. [A]		1.4.1.2. [A]			
5	Number of Storeys	Above grade - 1		Below grade - 0		1.4.1.2. [A] & 3.2.1.1.		1.4.1.2. [A] & 9.10.4			
6	Number of Streets/Fire Fighter Access - 3					3.2.2.10. & 3.2.5.		9.10.20.			
7	Building Classification - 3.2.2.70.					3.2.2.20.-83		9.10.2.			
8	Sprinkler System Proposed			<input type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating <input checked="" type="checkbox"/> not required			3.2.2.20.-83 3.2.1.5. 3.2.2.17. INDEX		9.10.8.2.   INDEX		
9	Standpipe required			X Yes <input type="checkbox"/> No			3.2.9.		N/A		
10	Fire Alarm required			<input type="checkbox"/> Yes X No			3.2.4.		9.10.18.		
11	Water Service/Supply is Adequate			X Yes <input type="checkbox"/> No			3.2.5.7.		N/A		
12	High Building			<input type="checkbox"/> Yes X No			3.2.6.		N/A		
13	Construction Restrictions			<input type="checkbox"/> Combustible permitted <input type="checkbox"/> Combustible <input type="checkbox"/> Non-combustible required <input checked="" type="checkbox"/> Non-combustible <input type="checkbox"/> Both		X Both 3.2.2.20.-83		9.10.6.			
14	Mezzanine(s) Area m² - N/A						3.2.1.1.(3)-(8)		9.10.4.1.		
15	Occupant load based on 1st Floor		<input type="checkbox"/> m²/person Occupancy F2		X design of building Load 19 persons		3.1.17.		9.9.1.3.		
16	Barrier-free Design			<input type="checkbox"/> Yes X No (Explain)			3.8.		9.5.2.		
17	Hazardous Substances			<input type="checkbox"/> Yes X No			3.3.1.2. & 3.3.1.19.		9.10.1.3.(4)		
18	Required Fire Resistance Rating (FRR)	Horizontal Assemblies			Listed Design No. or Description (SG-2)		3.3.1.2. & 3.3.1.19. 3.2.1.4.		9.10.1.3.(4) 9.10.8. 9.10.9.		
FRR (Hours)											
Floors 45 M											
Roof 0 Hours											
FRR of Supporting Members					Listed Design No. Or Description (SG-2)						
		Floors 0 Hours									
		Roof 0 Hours									
19	Spatial Separation – Construction of Exterior Walls							3.2.3.		9.10.14.	
	Wall	Area of EBF (m²)	L.D. (m)	L/H or H/L	Permitted Max. % of Openings	Proposed % of Openings	FRR (Hours)	Listed Design or Description	Comb Const	Comb. Constr. Nonc. Cladding	Non-comb. Constr.
	North	303	46	3.3	100	14	0HR				X
	East	478	31	9.2	80	26	1HR				X
	West	478	143	9.2	100	26	0HR				X

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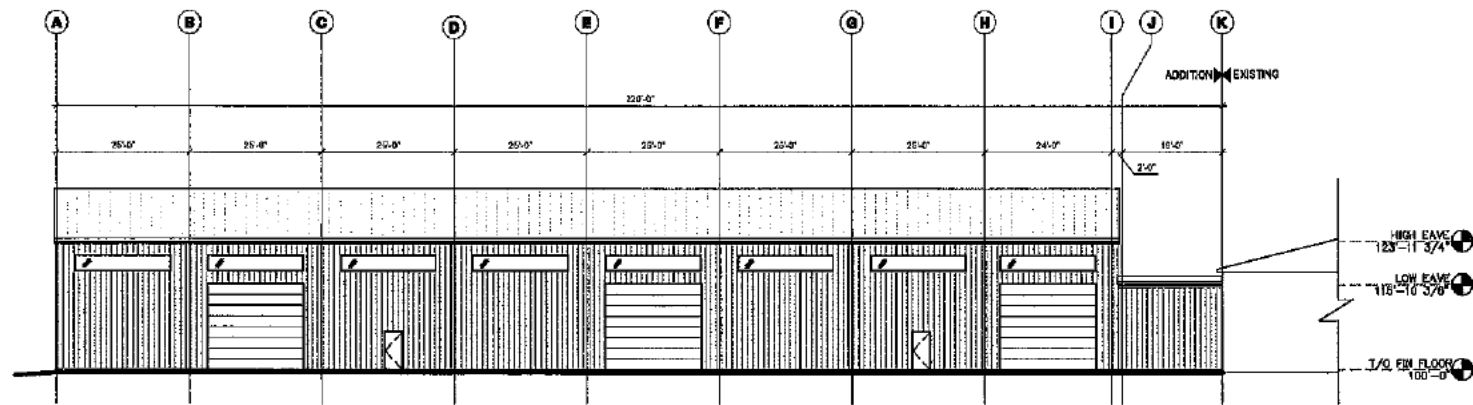


BUILDING ADDITION FOR:  
PETERBOROUGH TRUSS & FLOOR LTD  
2809 TELEVISION ROAD  
PETERBOROUGH, ON

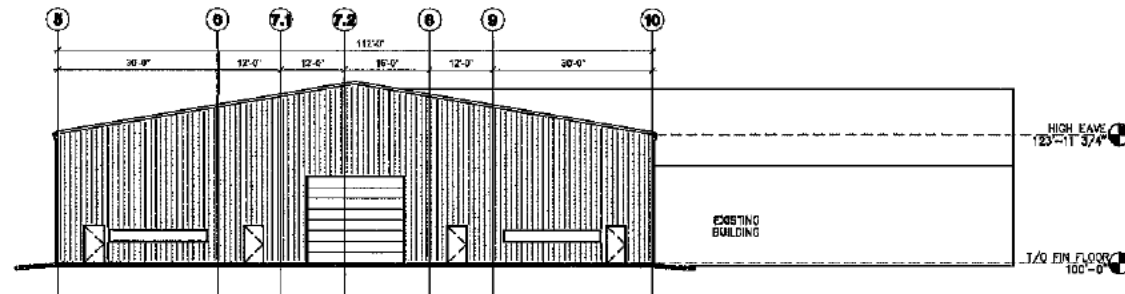
TITLE SHEET		DATE: 09.13.2024	CONTRACT No.: 2411
CHECKED BY:	DESIGNED BY: BDN	DWG. No.:	A0
DRAWN BY: BDN			
SCALE:			

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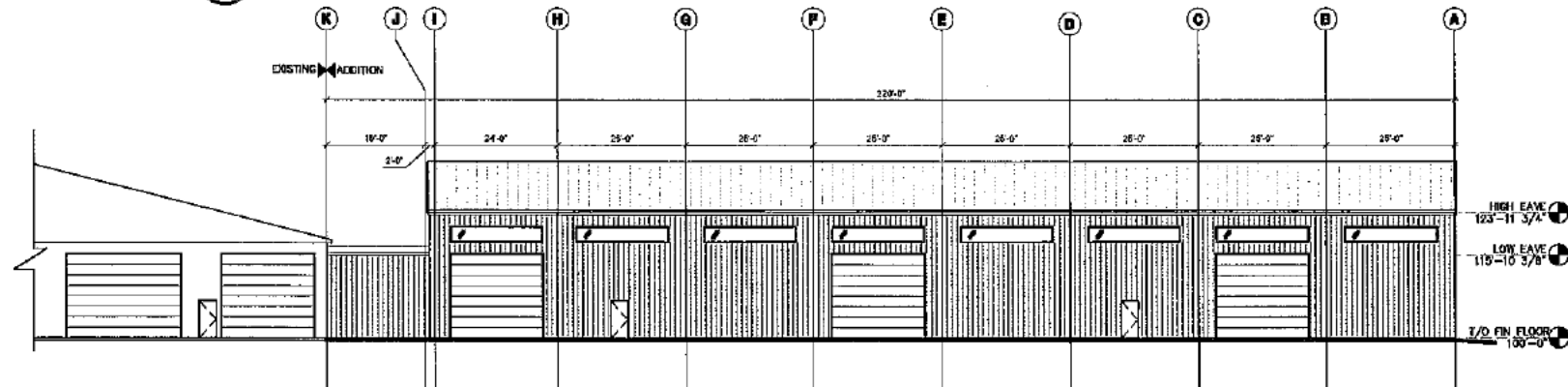
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**4 WEST ELEVATION**  
A1 SCALE: 1/16" = 1'-0"



**3 NORTH ELEVATION**  
A1 SCALE: 1/16" = 1'-0"



**2 EAST ELEVATION**  
A1 SCALE: 1/16" = 1'-0"


**1 FLOOR PLAN**  
A1 SCALE: 1/16" = 1'-0"

NO.	DATE	REVISION	BY

**BEL-CON**  
DESIGN-BUILDERS LTD  
TELEPHONE: (513) 965-5707 1-800 UNIVERSITY AVE.  
WWW.BEL-CON.CO.UK BEAVERVILLE, ONTARIO

BUILDING ADDITION FOR:  
PETERBOROUGH TRUSS  
2609 TELEVISION ROAD  
PETERBOROUGH, ON

## FLOOR PLAN & ELEVATIONS

	DATE	04.15.2024	PROJECT No.	2411
	DRAWN BY		ENG. No.	A1
	REVIEWED BY	BDN		
	DATE: 07	BDN		
	SCALE	AS SHOWN		