

SPRINKLER PLAN – SECOND FLOOR
SCALE: 1 : 100

GENERAL NOTES:

- ALL DIMENSIONS ARE CENTRE TO CENTRE
- DESIGN AND INSTALLATION AS PER NFPA 13 (2013) & OBC (2012) STANDARDS.
- ALL MATERIAL TO MEET N.F.P.A. 13 & OBC STANDARDS.
- TO PREVENT FREEZING ALL AREAS WITH WET PIPE ARE TO MAINTAINED ABOVE 4 DEG.C.

PIPE AND FITTINGS:

- ALL NEW PIPE TO BE BLACK S-10 EXCEPT 1" PIPE WHICH IS TO BE S-40.
- ALL NEW FITTINGS TO BE GROOVED.

SCOPE OF WORK:

- INSTALLATION OF NEW SPRINKLER SYSTEM.
- SPRINKLER CONTRACTOR TO START AT FLANGE INSIDE BUILDING.

SYSTEM DESIGN: N.F.P.A. 13 (2013), O.B.C. (2012)

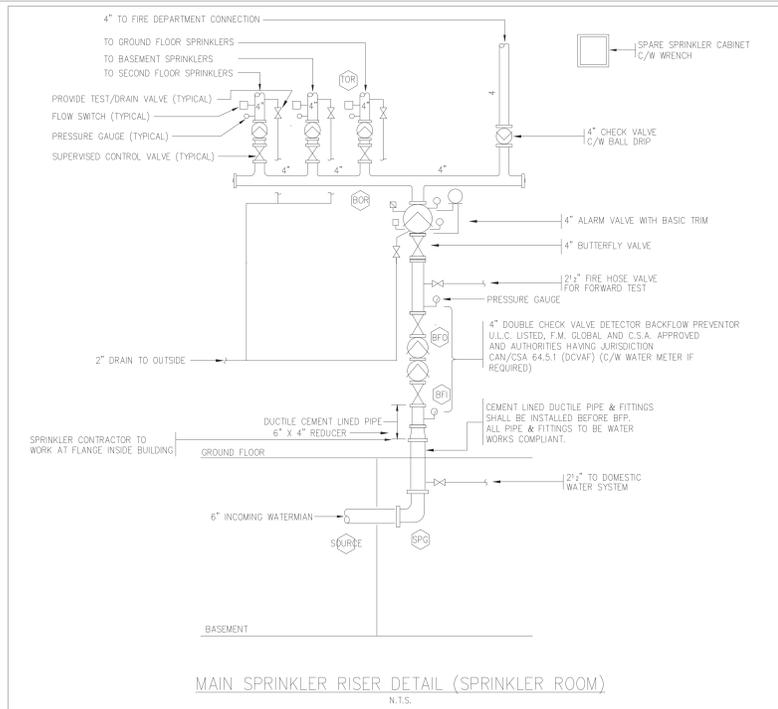
ALL AREAS ARE LIGHT HAZARD EXCEPT KITCHEN, ELECTRICAL & MECHANICAL ROOMS WHICH ARE OH:

- LIGHT HAZARD: DISCHARGE OF 0.10 USGPM/SF OVER 1500 SF PLUS 100 USGPM HOSE.
- ORDINARY HAZARD GROUP ONE: DISCHARGE OF 0.15 USGPM/SF OVER 1500 SF PLUS 250 USGPM HOSE.
- NOTE: AREAS REDUCED WITH CEILING LESS THAN 10' HIGH & QR SPRINKLERS.

FIRE HYDRANT FLOW TEST CONDUCTED ON AUGUST 8, 2024 ON BARTON STREET EAST:

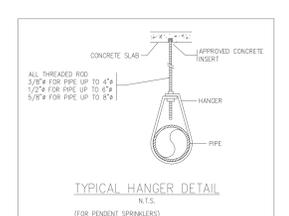
- STATIC: 60 PSI
- FLOW: 604 USGPM @ 56 PSI
- FLOW: 954 USGPM @ 52 PSI

FLOW FIRE HYDRANT: HYDRANT NORTH OF BARTON STREET & FRUITLAND
RESIDUAL FIRE HYDRANT: HYDRANT AT CORNER OF BARTON STREET & FRUITLAND

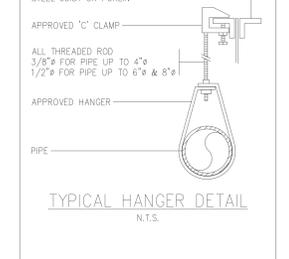


MAIN SPRINKLER RISER DETAIL (SPRINKLER ROOM)
N.T.S.

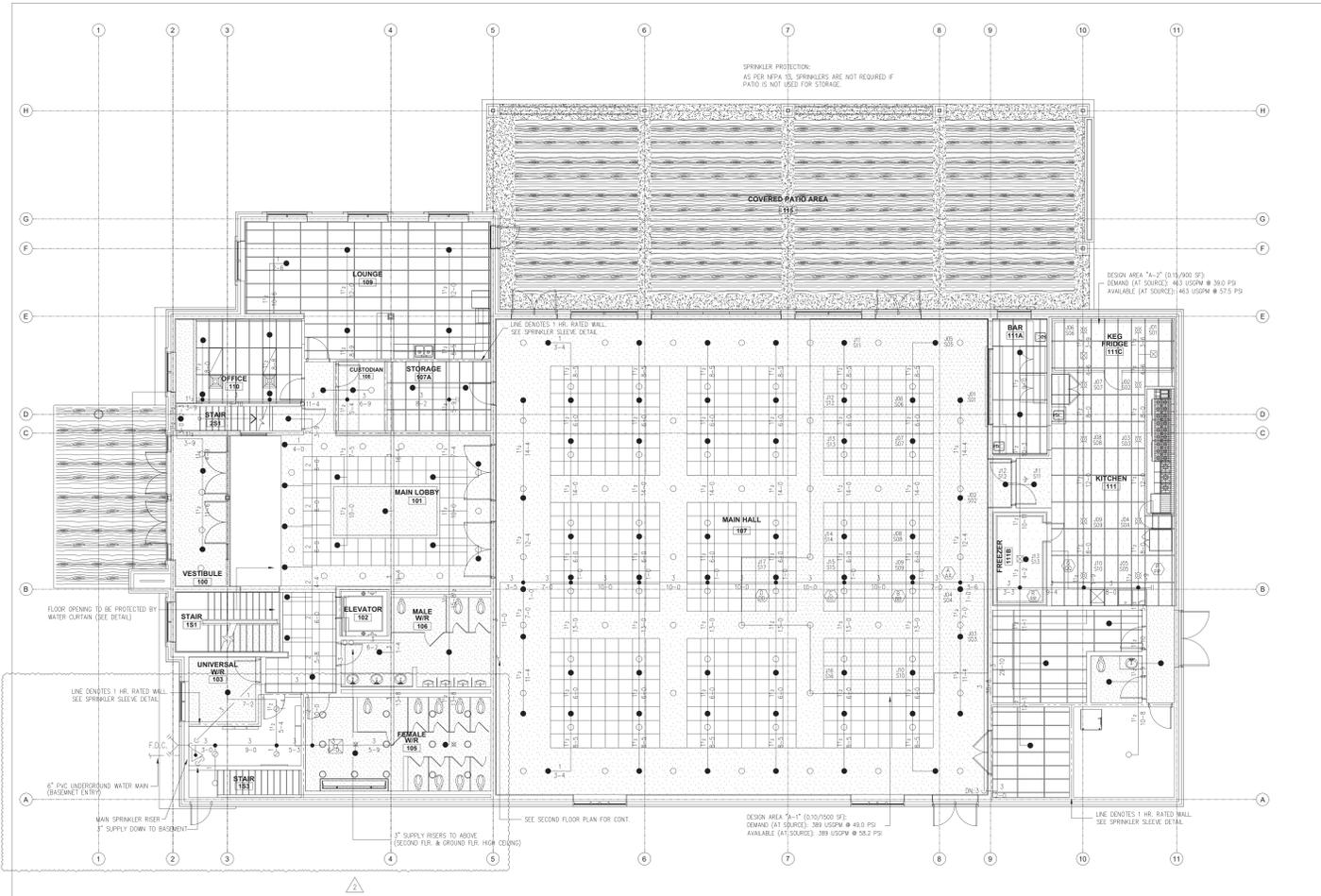
WESTBROOK
SPRINKLER DESIGN



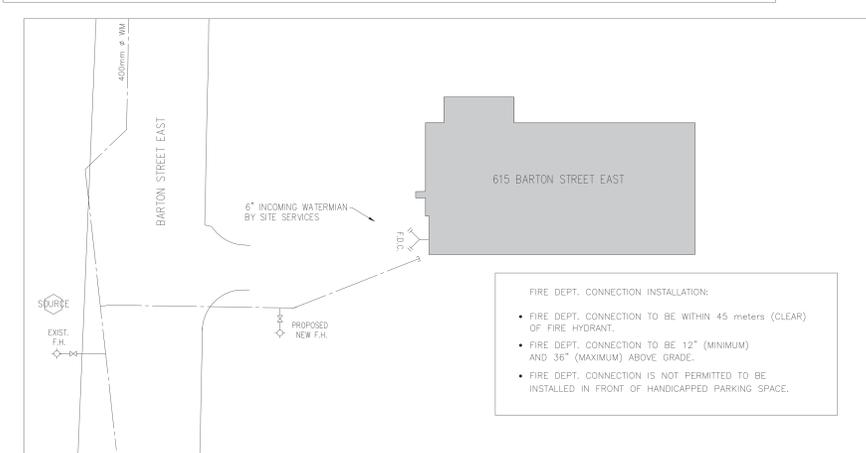
TYPICAL HANGER DETAIL
N.T.S.
(FOR PENDENT SPRINKLERS)



TYPICAL HANGER DETAIL
N.T.S.



SPRINKLER PLAN – GROUND FLOOR
SCALE: 1 : 100



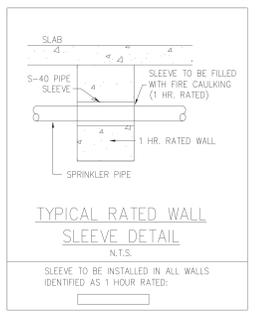
SITE PLAN
SCALE: 1 : 400
NOTE:
SITE PLAN SHOWN FOR HYDRAULIC INFORMATION ONLY.
NOT FOR CONSTRUCTION.

FIRE DEPT. CONNECTION INSTALLATION:

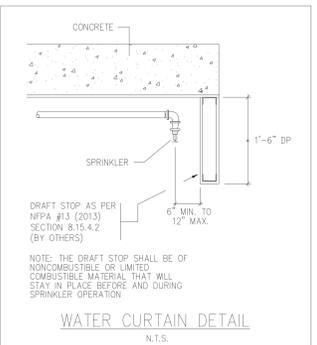
- FIRE DEPT. CONNECTION TO BE WITHIN 45 METERS (CLEAR) OF FIRE HYDRANT.
- FIRE DEPT. CONNECTION TO BE 12" (MINIMUM) AND 36" (MAXIMUM) ABOVE GRADE.
- FIRE DEPT. CONNECTION IS NOT PERMITTED TO BE INSTALLED IN FRONT OF HANDICAPPED PARKING SPACE.

TABLE 8.6.5.1.2 POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTION TO DISCHARGE (STANDARD SPRAY SPRINKLERS)

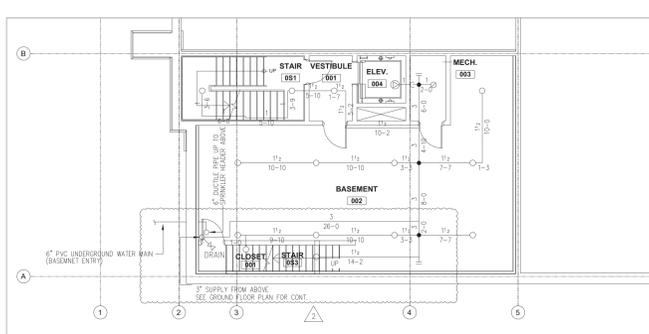
DISTANCE FROM SPRINKLER TO SIDE OF OBSTRUCTION	MAX. ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION
LESS THAN 1'-0"	0"
1'-0" TO LESS THAN 1'-6"	2 1/2"
1'-6" TO LESS THAN 2'-0"	3 1/2"
2'-0" TO LESS THAN 2'-6"	5 1/2"
2'-6" TO LESS THAN 3'-0"	7 1/2"
3'-0" TO LESS THAN 3'-6"	9 1/2"
3'-6" TO LESS THAN 4'-0"	12"
4'-0" TO LESS THAN 4'-6"	14"
4'-6" TO LESS THAN 5'-0"	16 1/2"
5'-0" TO LESS THAN 5'-6"	18"
5'-6" TO LESS THAN 6'-0"	20"
6'-0" TO LESS THAN 6'-6"	24"
6'-6" TO LESS THAN 7'-0"	30"
7'-0" TO LESS THAN 7'-6"	35"



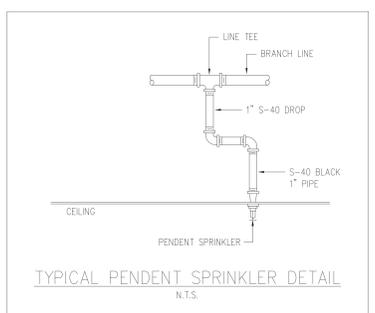
TYPICAL RATED WALL SLEEVE DETAIL
N.T.S.
SLEEVE TO BE INSTALLED IN ALL WALLS IDENTIFIED AS 1 HOUR RATED.



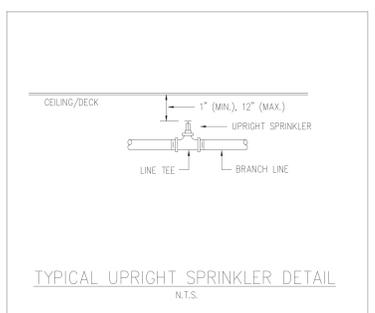
WATER CURTAIN DETAIL
N.T.S.



SPRINKLER PLAN – BASEMENT
SCALE: 1 : 100



TYPICAL PENDENT SPRINKLER DETAIL
N.T.S.



TYPICAL UPRIGHT SPRINKLER DETAIL
N.T.S.

SPRINKLER LEGEND:

- NEW BRASS UPRIGHT SPRINKLER (1 1/2", 155 DEG.F. QR, K=5.6)
- NEW BRASS UPRIGHT SPRINKLER (1 1/2", 200 DEG.F. QR, K=5.6)
- NEW CHROME PENDENT SPRINKLER WITH CHROME TWO PIECE PLATE (1 1/2", 155 DEG.F. QR, K=5.6)
- NEW CHROME PENDENT SPRINKLER WITH CHROME TWO PIECE PLATE (1 1/2", 200 DEG.F. QR, K=5.6)
- ⊗ NEW BRASS SIDEWALL SPRINKLER WITH LISTED GUARD (1 1/2", 200 DEG.F. QR, K=5.6)
- ⊗ NEW CHROME DRY PENDENT SPRINKLER WITH CHROME ONE PIECE PLATE (1 1/2", 200 DEG.F. QR, K=5.6)

SYSTEM TYPE

- WET
- DRY
- FGAM
- DELUGE
- PREACTION (SINGLE-INTER.)

DRAWINGS ISSUED FOR:

- APPROVAL
- AS-BUILT
- CONSTRUCTION

FEB. 18, 2026

TRINITY
ENGINEERING & CONSULTING

WESTBROOK
SPRINKLER DESIGN

REV.	DATE	BY	DESCRIPTION
3	18 FEB. 2026	WSD	ISSUED FOR TENDER
2	10 DEC. 2025	WSD	REV. AS PER NEW FLOOR LAYOUT
1	13 NOV 2025	WSD	REV. AS PER NEW FLOOR LAYOUT
0	20 FEB 2025	WSD	ISSUED FOR PERMIT

CONTRACT NAME: NEW CULTURAL CLUB CROATIAN NATIONAL HOME 615 BARTON STREET EAST STONEY CREEK, ON

DESIGN: NFPA 13: LIGHT HAZARD

CONTRACT WITH:

SCALE: AS NOTED

DRAWN BY: WSD

CHECKED BY: P.G.

DATE: FEB. 2025

CONTRACT NO.:

DRAWING NO.: SP - 1

FIRE PROTECTION SPECIFICATIONS

1.0 GENERAL NOTES AND GUIDE TO SPECIFICATIONS

- .1 THE SPRINKLER SYSTEM DRAWINGS DO NOT SHOW ALL ARCHITECTURAL AND STRUCTURAL DETAILS. ANY INFORMATION INVOLVING ACCURATE MEASUREMENT OF THE BUILDING SHALL BE TAKEN FROM THE ARCHITECTURAL AND STRUCTURAL DRAWINGS OR SHALL BE MEASURED ON THE SITE. ANY CHANGES OR ADDITIONS TO ACCOMMODATE THE SITE CONDITIONS SHALL BE MADE WITHOUT CHARGE TO THE OWNER.
- .2 FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS AND FOR CO-ORDINATION WITH ALL OTHER TRADES. BEFORE COMMENCING WORK EXAMINE THE SITE AND THE WORK OF THE OTHER TRADES AND REPORT AT ONCE TO THE ENGINEER ANY DEFECT OR INTERFERENCE AFFECTING THE COMPLETION OF THE WORK, OR THE GUARANTEE OF THIS CONTRACTOR.
- .3 FIRE PROTECTION CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEERS BEFORE PROCEEDING WITH THE WORK.
- .4 ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CODES, STANDARDS, BY-LAWS AND AUTHORITIES HAVING JURISDICTION.
- .5 THE WORK IN THIS SECTION MUST BE CARRIED OUT BY A CONTRACTOR WITH AN ESTABLISHED REPUTATION IN FIRE PROTECTION INSTALLATIONS.
- .6 THE FIRE PROTECTION CONTRACTOR MUST BE IN GOOD STANDING AND A MEMBER OF THE CANADIAN AUTOMATIC SPRINKLER ASSOCIATION (C.A.S.A.).
- .7 FIRE PROTECTION CONTRACTOR TO CO-ORDINATE INSTALLATION WITH OTHER TRADES ON THE SITE AND ACCEPT RESPONSIBILITY FOR AND COST OF MAKING ADJUSTMENTS TO PIPING TO AVOID INTERFERENCE WITH MECHANICAL, ELECTRICAL AND OTHER BUILDING COMPONENTS.
- .8 FIRE PROTECTION CONTRACTOR TO INCLUDE FOR OFFSETS IN SPRINKLER PIPING AND SUPPLY AND INSTALLATION OF TRAPEZE HANGERS WHERE REQUIRED.
- .9 ALL SPRINKLER VALVES TO BE SUPERVISED, U.L.C. LISTED AND F.M. APPROVED.
- .10 FIRE PROTECTION CONTRACTOR TO ALLOW FOR ADDITIONAL PRESSURE SWITCHES WHERE REQUIRED FOR ALARM SYSTEM.
- .11 ALL MATERIALS USED IN THE INSTALLATION OF THE SPRINKLER SYSTEM SHALL BE CANADIAN AND/OR UNITED STATES MADE UNLESS SPECIFICALLY APPROVED IN WRITING PRIOR TO INSTALLATION BY THE ARCHITECTS AND/OR ENGINEERS RESPONSIBLE FOR THE SYSTEM DESIGN.
- .12 DRAWINGS ARE NOT TO BE SCALED.
- .13 THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEERS AND SHALL NOT BE ALTERED WITHOUT APPROVAL. DRAWINGS SHALL BE RETURNED UPON REQUEST.
- .14 FIRE PROTECTION CONTRACTOR TO ALLOW IN PRICE FOR SUFFICIENT PIPE AND FITTINGS TO INSTALL PENDENT SPRINKLERS WITHIN 5 FT. RADIUS OF LOCATION SHOWN.
- .15 ALL SPRINKLER SYSTEMS SHALL BE INSTALLED AND TESTED TO THE FOLLOWING CODES AND STANDARDS, ONTARIO BUILDING CODE, ONTARIO FIRE CODE, N.F.P.A. No. 13 (LATEST EDITION), F.M. GLOBAL AND LOCAL AUTHORITIES.

2.0 SHOP DRAWINGS

- .1 PROVIDE SHOP DRAWINGS FOR THE FOLLOWING:
 - ALARM VALVES AND ALL COMPONENTS
 - SUPERVISORY DEVICES
 - SPRINKLER HEADS
 - CONTROL VALVES
 - DOUBLE CHECK VALVE/BACKFLOW PREVENTER
- .2 FIRE PROTECTION CONTRACTOR SHALL PREPARE A SET OF CONSTRUCTION SHOP DRAWINGS AND INTERFERENCE DRAWINGS SHOWING THE COMPLETE SYSTEMS AND HAVE SAME APPROVED BY LOCAL AUTHORITIES, INSURANCE RATING ORGANIZATION AND AS REQUIRED BY CODES AND REGULATIONS. CONTRACTOR SHALL PAY ANY FEES LEVIED BY APPROVALS AUTHORITIES FOR REVIEW OF DRAWINGS. AFTER THE ABOVE APPROVALS HAVE BEEN OBTAINED, THE CONTRACTOR SHALL SUBMIT THE DRAWINGS TO THE ARCHITECT AND ENGINEER FOR APPROVAL. MATERIALS SHALL NOT BE ORDERED NOR SHALL ANY WORK BE INSTALLED UNTIL ALL THE APPROVALS HAVE BEEN OBTAINED.

3.0 TEST AND CERTIFICATION

- .1 UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL TEST THE SYSTEM AND SUBMIT TO THE ENGINEER COMPLETED CONTRACTOR'S TEST CERTIFICATES AFFIRMING THAT THE SYSTEM HAS BEEN INSTALLED, TESTED AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH N.F.P.A. LATEST EDITION.

4.0 SLEEVES AND PLATES

- .1 USE STANDARD WEIGHT STEEL PIPE SLEEVES WHERE PIPES PASS THROUGH MASONRY, CONCRETE OR TILE WALLS AND WHERE FOR PIPES PASS THROUGH MECHANICAL ROOMS AND SERVICE AREA FLOORS. ALL SLEEVES SHALL HAVE MACHINE CUT ENDS.
- .2 SLEEVES THROUGH MECHANICAL ROOMS AND SERVICE AREA FLOORS SHALL TERMINATE 3" ABOVE FINISH FLOOR LEVEL.
- .3 SLEEVES TO BE FILLED WITH ONE HOUR FIRE CAULKING. CAULKING TO BE ULC LISTED.
- .4 ALL SLEEVES TO BE S-40 STEEL PIPE.
- .5 PROVIDE CHROME PLATES, SOLID BRASS ESCUTCHEONS WITH SET SCREWS ON ALL PIPING, WHERE EXPOSED TO VIEW IN UNFINISHED AREAS.
- .6 LOCATE SLEEVES PRIOR TO POURING OF CONCRETE OR CONSTRUCTION OF WALLS. ANY SLEEVES MISSED OR IMPROPERLY PLACED WILL BE DRILLED AT THE EXPENSE OF DIVISION 15.

5.0 ASSOCIATED WORK NOT IN SPRINKLER CONTRACT:

- .1 EXCESS PRESSURE PUMP TO BE WIRED AND TESTED BY ELECTRICAL CONTRACTOR (DIVISION 16).
- .2 SPRINKLER SUPERVISORY & ALARM SWITCHES TO BE WIRED TO FIRE ALARM PANEL BY FIRE ALARM CONTRACTOR (DIVISION 28).
- .3 BAFFLE AROUND FLOOR OPENING THAT IS REQUIRED FOR WATER CURRENT TO BE INSTALLED BY GENERAL CONTRACTOR.
- .4 UNDERGROUND WATER MAIN TO BE INSTALLED BY SITE SERVICE. SPRINKLER CONTRACT TO START AT FLANGE INSIDE BUILDING.

6.0 WORK INCLUDED

- .1 THE FIRE PROTECTION CONTRACTOR TO SUPPLY AND INSTALL A COMPLETE AND FULLY OPERATIONAL AUTOMATIC SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS AND AS INDICATED IN THE SPECIFICATIONS AND CONFORMING TO N.F.P.A. REQUIREMENTS, O.B.C. REQUIREMENTS AND THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT.
- .2 THE FIRE PROTECTION CONTRACTOR TO SUPPLY AND INSTALL A COMPLETE AND FULLY OPERATIONAL FIRE HOSE SYSTEM AS SHOWN ON THE DRAWINGS, AS INDICATED IN THE SPECIFICATIONS AND CONFORMING TO N.F.P.A. REQUIREMENTS, O.B.C. REQUIREMENTS AND THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT

7.0 SPRINKLER SYSTEM PRODUCTS

- .1 SPRINKLER HEADS, SPRINKLER ALARM VALVES, CONTROL VALVE & CHECK VALVES: TYCO, VICTAULIC, RELIABLE & VIKING.
- .2 SPRINKLER SWITCHES: POTTER
- .3 BACKFLOW PREVENTOR ASSEMBLY: WATTS ZURN

NOTES:

1. SEE STRUCTURAL DRAWINGS FOR LOCATION AND HANGING SPECIFICATIONS FOR ALL 6" SPRINKLER MAINS.
2. FIRE PROTECTION CONTRACTOR TO SUBMIT A UNIT PRICE FOR DELETING OR ADDING ALL TYPES OF SPRINKLER HEADS LISTED ON THE DRAWINGS INCLUDING PIPING, FITTINGS AND LABOUR.
3. FIRE PROTECTION CONTRACTOR TO PROVIDE ALL DRAINS REQUIRED AS PER NFPA NO. 13 AND ALL SYSTEM DRAINS TO TERMINATE AT NEAREST MECHANICAL FLOOR DRAIN AS PER PLUMBING SPECIFICATIONS OR OUTSIDE.
4. FIRE PROTECTION CONTRACTOR TO INCLUDE FOR REQUIRED SIGNAGE, TAGS AND LABELS AS PER N.F.P.A. No. 13 AND LOCAL FIRE DEPARTMENT.
5. IF REQUIRED MONITORING PANELS FOR LOW PRESSURE, FLOW PRESSURE AND SYSTEM VALVE TAMPER SWITCHES SHALL BE SUPPLIED AND INSTALLED BY FIRE PROTECTION CONTRACTOR. PANEL SHALL BE cUL LISTED AND CSA APPROVED AND FEATURES SHALL INCLUDE AUTO DIAL FOR OFF-SITE MONITORING, BACK UP BATTERIES AND BATTERY CHARGER. INSTALLATION SHALL CONFORM TO cUL-S-524-01 N.F.P.A. #72, NATIONAL FIRE ALARM CODE REQUIREMENTS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION. VERIFICATION SHALL CONFORM TO cUL-S-537-04 AND ALL TO BE CO-ORDINATED WITH DIVISION 16. THE FIRE PROTECTION CONTRACTOR TO INCLUDE FOR ALL WIRING AND 24 VOLT TRANSFORMER.
6. THE BUILDING OWNER AND/OR TENANT SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT HEAT TO PREVENT FREEZING OF WATER IN THE SPRINKLER SYSTEM.
7. FIRE PROTECTION CONTRACTOR TO VISIT SITE PRIOR TO FABRICATION OF SPRINKLER SYSTEM PIPING AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
8. FIRE PROTECTION CONTRACTOR TO PROVIDE FIRE EXTINGUISHERS AS PER O.B.C. AND N.F.P.A. No. 10.
9. JOB SITE VISIT REQUIRED. THE FIRE PROTECTION CONTRACTOR, AFTER VISITING THE SITE TO SURVEY ALL SITE CONDITIONS, SHALL REPORT IN WRITING, ANY CONDITIONS WHICH PREVENT OR INHIBIT THE CONTRACTOR FROM INSTALLING THE SPRINKLER SYSTEM ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IF THE CONTRACTOR DOES NOT FORWARD SUCH REPORT TO THE DESIGN ENGINEER IN ADVANCE OF SUBMITTING A TENDER BID, IT SHALL BE DEEMED THAT THE CONTRACTOR ACCEPTS THE PREVAILING SITE CONDITIONS WITHOUT ADJUSTMENT TO BID.

FEB. 18, 2026



SYSTEM TYPE
 WET DELUGE
 DRY PREACTION (SINGLE-INTER.)
 FOAM

DRAWINGS ISSUED FOR:
 APPROVAL
 AS-BUILT
 CONSTRUCTION

REV.	DATE	BY	DESCRIPTION
1	18 FEB. 2026	WSD	ISSUED FOR TENDER
0	20 FEB 2025	WSD	ISSUED FOR PERMIT

CONTRACT NAME : NEW CULTURAL CLUB
 CROATIAN NATIONAL HOME
 615 BARTON STREET EAST
 STONEY CREEK, ON

SCALE : AS NOTED
 DRAWN BY : WSD
 CHECKED BY : P.G.
 DATE : FEB. 2025
 CONTRACT NO. :
 DRAWING NO. : SP - 2