GENERAL SPECIFICATIONS

1.0 THESE DRAWINGS ARE FOR PERMIT, AND FOR PRICING, AND MUST BE ADHERED TO FOR INSTALLATION. IF CONTRACTOR WISHES TO ALTER DRAWINGS, THEN HE IS RESPONSIBLE FOR OBTAINING RE-APPROVALS.

2.0 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 AUTHORITIES.

3.0 UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL TEST THE SYSTEM AND SUBMIT TO THE ENGINEER COMPLETED CONTRACTORS TEST CERTIFICATES STATING THAT THE SYSTEMS HAVE BEEN INSTALLED, TESTED AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH N.F.P.A.13, LATEST EDITION.

4.0 ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CODES, STANDARDS BY-LAWS AND AUTHORITIES HAVING JURISDICTION.

5.0 SYSTEMS TO BE INSTALLED AS PER N.F.P.A. STANDARDS, AND LOCAL AUTHORITIES

6.0 SPRINKLER CONTRACTOR TO CO-ORDINATE INSTALLATION WITH EXISTING SITE CONDITIONS AND ACCEPT RESPONSIBILITY FOR AND COST OF MAKING ADJUSTMENTS TO PIPING TO AVOID INTERFERENCE WITH MECHANICAL, ELECTRICAL AND OTHER BUILDING COMPONENTS.

7.0 SPRINKLER CONTRACTOR TO INCLUDE FOR OFFSETS IN SPRINKLER PIPING AND MUST SUPPLY AND INSTALL TRAPEZE HANGERS WHERE REQUIRED. HANGERS FOR MAINS TO BE INSTALLED AT PANEL POINTS OF JOISTS.

✳ 8.0 ALL SPRINKLER VALVES TO BE SUPERVISED, AND U.L.C. LISTED.

✳ 9.0 SPRINKLER CONTRACTOR TO ALLOW FOR ADDITIONAL PRESSURE SWITCHES WHERE REQUIRED FOR ALARM SYSTEM.

10.0 CONTRACTOR TO ALLOW IN PRICE FOR SUFFICIENT PIPE AND FITTINGS TO INSTALL PENDENT SPRINKLERS WITHIN A 1524mm RADIUS OF THE LOCATION SHOWN ON DRAWINGS.

11.0 ALL MATERIALS USED IN THE INSTALLATION OF THE SPRINKLER SYSTEM SHALL BE CANADIAN MADE, UNLESS SPECIFICALLY APPROVED IN WRITING PRIOR TO INSTALLATION BY THE ARCHITECTS AND/OR ENGINEERS RESPONSIBLE FOR THE SYSTEM DESIGN.

12.0 ALL SPRINKLER EQUIPMENT SHALL BE OF ONE MANUFACTURER FROM THE FOLLOWING: GRINNELL, VIKING, CENTRAL, RELIABLE OR APPROVED EQUAL. ALL SHALL BE U.L.C. LISTED FOR THEIR SPECIFIC APPLICATION.

13.0 DRAWINGS ARE NOT TO BE SCALED.

14.0 THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEERS AND SHALL NOT BE ALTERED WITHOUT APPROVAL. DRAWINGS SHALL BE RETURNED UPON REQUEST.

15.0 SPRINKLER HEADS SHALL BE U.L.C. LISTED AND SHALL BE THE TYPE AND TEMPERATURE RATING SPECIFIED ON THE DRAWINGS.

16.0 PROVIDE SPARE SPRINKLER HEADS AND WRENCH IN A METAL CABINET, MOUNTED ON THE WALL NEAR THE MAIN SPRINKLER VALVE HEADER. AMOUNT AS PER N.F.P.A. 13 (2025 EDITION).

17.0 SPRINKLERS OF SUITABLE TEMPERATURE RATING SHALL BE INSTALLED NEAR HEATING EQUIPMENT AS SPECIFIED UNDER SECTION 9.4.2.5 OF N.F.P.A.13 (2025 EDITION)

18.0 PROVIDE ALL NECESSARY TRIM REQUIRED FOR ALARM CHECK VALVES TO COMPLY WITH APPLICABLE CODES AND REQUIREMENTS.

19.0 PENDENT SPRINKLERS INSTALLED WHERE SUSPENDED CEILING TILES OR DRYWALL OCCUR ARE TO BE EQUIPPED WITH TWO PIECE ESCUTCHEONS. (WHERE APPLICABLE)

20.0 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS AND FOR CO-ORDINATION WITH ALL SITE CONDITIONS. BEFORE COMMENCING WORK, EXAMINE THE SITE AND THE EXISTING CONDITIONS AND REPORT IMMEDIATELY TO THE ENGINEER ANY DEFECT OR INTERFERENCE AFFECTING THE COMPLETION OF THE WORK OR THE GUARANTEE OF THIS CONTRACTOR.

21.0 CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

✳ 22.0 PROVIDE FLOW ALARM DEVICES, SUPERVISORY SWITCHES AND PRESSURE SWITCHES WHERE SHOWN ON DRAWINGS. WIRING TO ANNUNCIATOR SHALL BE BY ELECTRICAL CONTRACTOR. PROVIDE NECESSARY SIGNS WHERE REQUIRED BY THE LOCAL FIRE AUTHORITIES.

23.0 PROVIDE SHOP DRAWINGS FOR THE FOLLOWING:

A) - SPRINKLER HEADS
✳ B) - ALARM VALVE AND TRIM
✳ C) - SUPERVISORY DEVICES
D) - HANGERS
✳ E) - FLOW SWITCHES

24.0 A COPY OF N.F.P.A. 25 IS TO BE PROVIDED AND LEFT IN A VISIBLE LOCATION IN THE SPRINKLER ROOM.

25.0 DIMENSIONS AND/OR MEASUREMENTS INDICATED ON THE DRAWINGS ARE TO BE VERIFIED AT SITE AND ANY MAJOR DISCREPANCIES TO BE REPORTED PRIOR TO FABRICATION AND INSTALLATION. (IF APPLICABLE)

26.0 EXACT LOCATION AND ELEVATION OF MAINS TO BE DETERMINED BY CONTRACTOR TO SUIT SITE CONDITIONS.

27.0 CONTRACTOR TO CO-ORDINATE LOCATION OF SPRINKLERS WITH RESPECT TO SURFACE MOUNTED LIGHT FIXTURES AND MAINTAIN MINIMUM CLEARANCE AS REQUIRED BY NFPA 13 TO AVOID ANY OBSTRUCTION TO SPRAY PATTERN OF SPRINKLERS.

28.0 CONTRACTOR TO PROVIDE NECESSARY HANGERS AND ASSEMBLY TO COMPLY WITH THE FOLLOWING:
A) UNSUPPORTED LENGTH BETWEEN END SPRINKLER AND LAST HANGER SHALL NOT EXCEED 914mm FOR 25mm PIPE, 1219mm FOR 32mm PIPE AND 1500mm FOR 40mm PIPE OR LARGER.
NOTE: WHEN PRESSURE EXCEEDS 100 PSI, REFER TO 17.4.3.4.4 N.F.P.A 13 (2025 EDITION).

B) THE LENGTH OF AN UNSUPPORTED ARM-OVER TO A SPRINKLER SHALL NOT EXCEED 600mm FOR STEEL PIPE.
NOTE: WHEN PRESSURE EXCEEDS 100 PSI, TO 17.4.3.5.2 N.F.P.A 13 (2025 EDITION).

29.0 MINIMUM WALL THICKNESS OF SPRINKLER PIPING TO BE EQUIVALENT TO SCHEDULE 10S.

30.0 CONTRACTOR TO INCLUDE FOR AN ADDITIONAL 20 SPRINKLERS FOR BELOW OBSTRUCTIONS ETC.

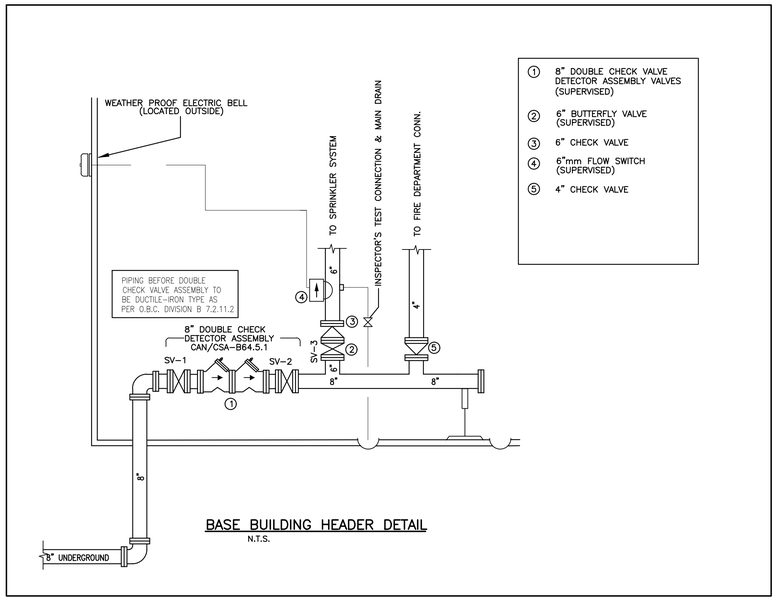
31.0 SPRINKLERS IN LIGHT HAZARD OCCUPANCIES (ie OFFICES, SCHOOLS ETC.) TO BE QUICK RESPONSE TYPE.

32.0 SPRINKLERS IN LIGHT HAZARD OCCUPANCIES (ie OFFICES, SCHOOLS ETC.) TO BE QUICK RESPONSE TYPE.

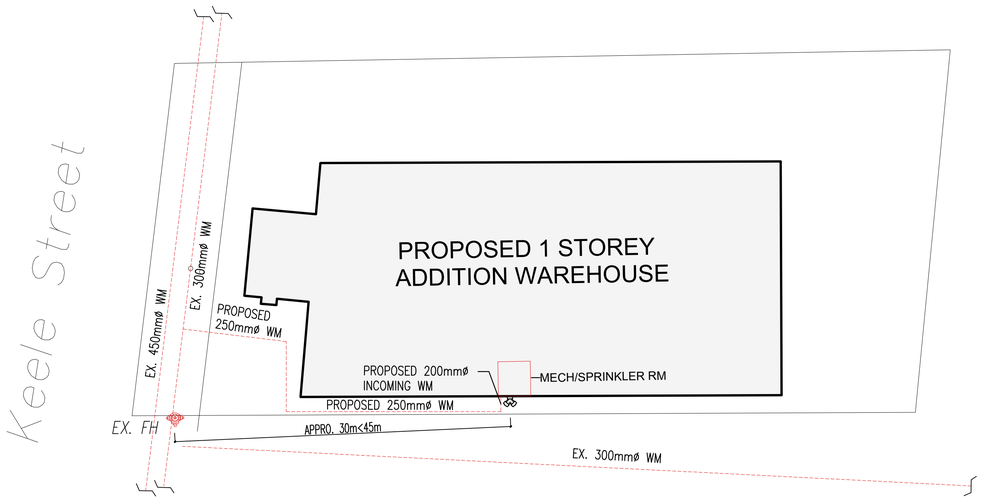
33.0 SINCE THE BUILDING IS EXISTING, CONTRACTOR IS TO VISIT SITE AND BECOME FAMILIAR WITH EXISTING SITE CONDITIONS RELATIVE TO THE PROJECT AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO QUOTING OR FABRICATION.

34.0 CONTRACTOR TO PROVIDE ADEQUATE DRAINS AS REQUIRED BY N.F.P.A 13 AND DISCHARGE TO A LOCATION TO SUIT SITE CONDITIONS.

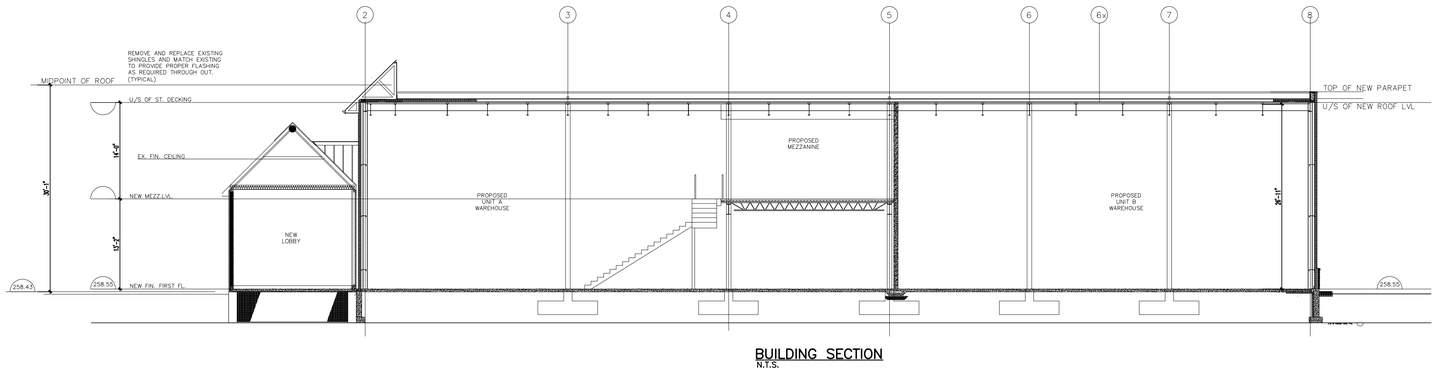
✳ DENOTES " IF APPLICABLE "



BASE BUILDING HEADER DETAIL
N.T.S.



SITE PLAN
N.T.S.



BUILDING SECTION
N.T.S.

No.	Date:	Revision:	D'wn.	Ch'd.
1.	AUG. 04/2026	ISSUED FOR PERMIT	L.W.	S.S.

DESIGN CRITERIA

WAREHOUSE:
SPRINKLER WET SYSTEM DESIGNED FOR EXTRA HAZARD GROUP 2.
0.40 GPM PER SQ.FT. OVER 2000 SQ.FT.
C/W HIGH-TEMPERATURE SPRINKLERS
PLUS 500 GPM FOR HOSES.
AS PER TABLE 19.2.3.1.1 DENSITY/AREA CRITERIA NFPA 13 (ED 2025).

ISSUED FOR CLIENT REVIEW

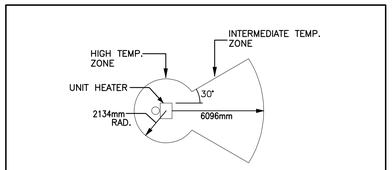
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PROPOSED:
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VAUGHAN, ONTARIO

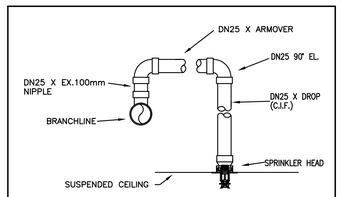
DWG TITLE
SYSTEM HEADER, SPECS SITE PLAN, AND BUILDING SECTION

Scale	N.T.S.
Project Start Date	JUL. / 2026
Job No.	24-020
Drawn By	L.W.
Checked By	S.S.
Drawing No.	SP1 OF 3

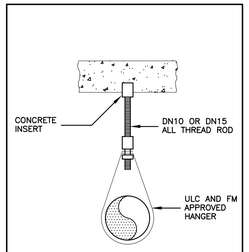


AS PER NFPA 13 FIG. 9.4.2.5 2025 EDITION

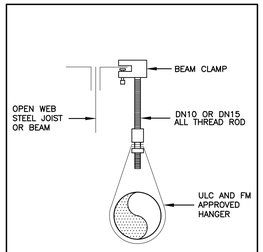
TEMPERATURE ZONES AT UNIT HEATERS
N.T.S.



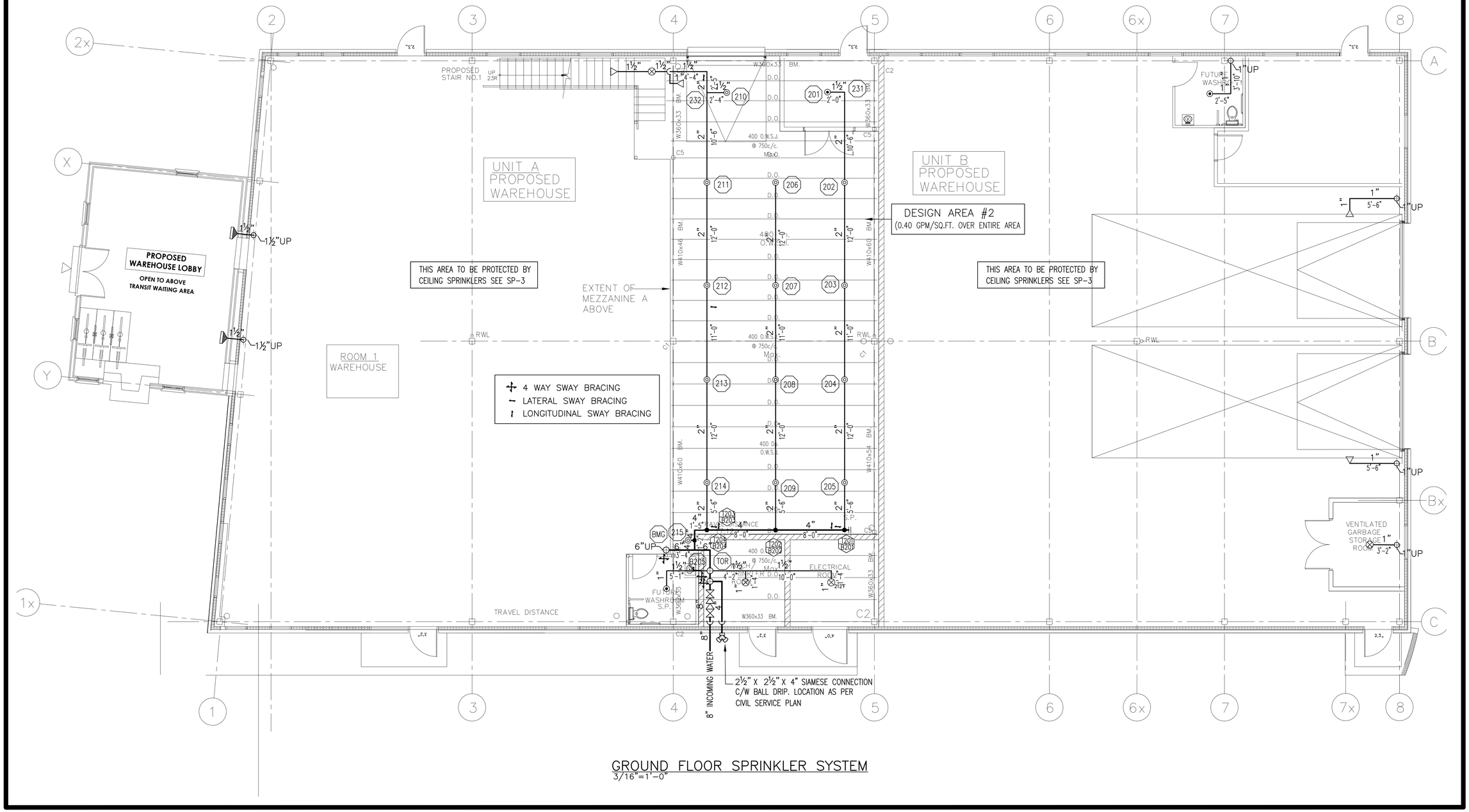
TYP. RETURN BEND DETAIL
N.T.S.



AS PER N.F.P.A.13
HANGER DETAIL
N.T.S.



AS PER N.F.P.A.13
HANGER DETAIL
N.T.S.



GROUND FLOOR SPRINKLER SYSTEM
3/16"=1'-0"

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1	AUG. 04/2026	ISSUED FOR PERMIT	L.W.	S.S.

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C/W HIGH-TEMPERATURE SPRINKLERS
PLUS 500 GPM FOR HOSES.
AS PER TABLE 19.2.3.1.1 DENSITY/AREA CRITERIA NFPA 13 (ED 2025).

S/R=STANDARD RESPONSE Q/R=QUICK RESPONSE
○ C/W GUARD

◎	3/4" 286°F STANDARD COVERAGE UPRIGHT (K=8) S/R	14
◉	1/2" 165°F SC Q/R CONCEALED PENDENT (K=5.6)	3
◁	1/2" 165°F STANDARD SIDEWALL (K=5.6) Q/R	4
⊗	1/2" 165°F STANDARD COVERAGE UPRIGHT (K=5.6) Q/R	4
◑	3/4" 165°F STANDARD COVERAGE UPRIGHT (K=8.0) Q/R	4

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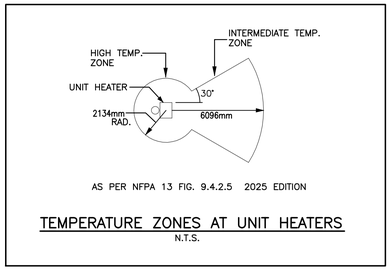
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LICENCED PROFESSIONAL ENGINEER S. SOSCIA 100128 PROVINCE OF ONTARIO

PROJECT NAME:
PROPOSED:
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VAUGHAN, ONTARIO

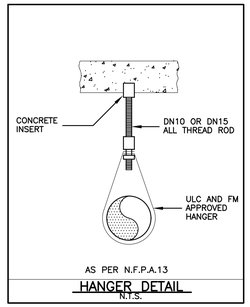
DWG TITLE
GROUND FLOOR SPRINKLER SYSTEM

Scale	N.T.S.
Project Start Date	JUL. / 2026
Job No.	24-020
Drawn By	L.W.
Checked By	S.S.
Drawing No.	SP2 OF 3



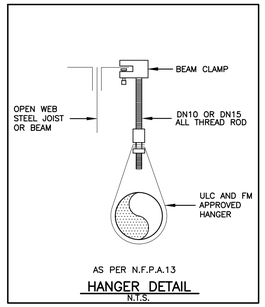
AS PER NFPA 13 FIG. 9.4.2.5 2025 EDITION

TEMPERATURE ZONES AT UNIT HEATERS
N.T.S.



AS PER N.F.P.A.13

HANGER DETAIL
N.T.S.



AS PER N.F.P.A.13

HANGER DETAIL
N.T.S.

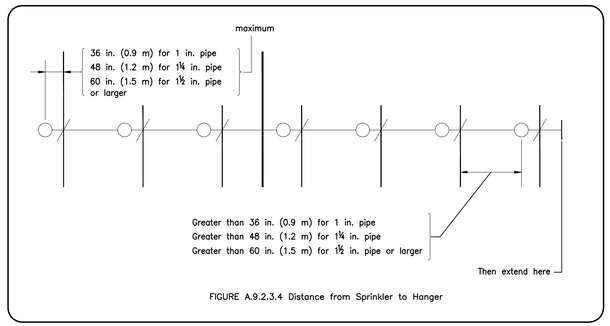
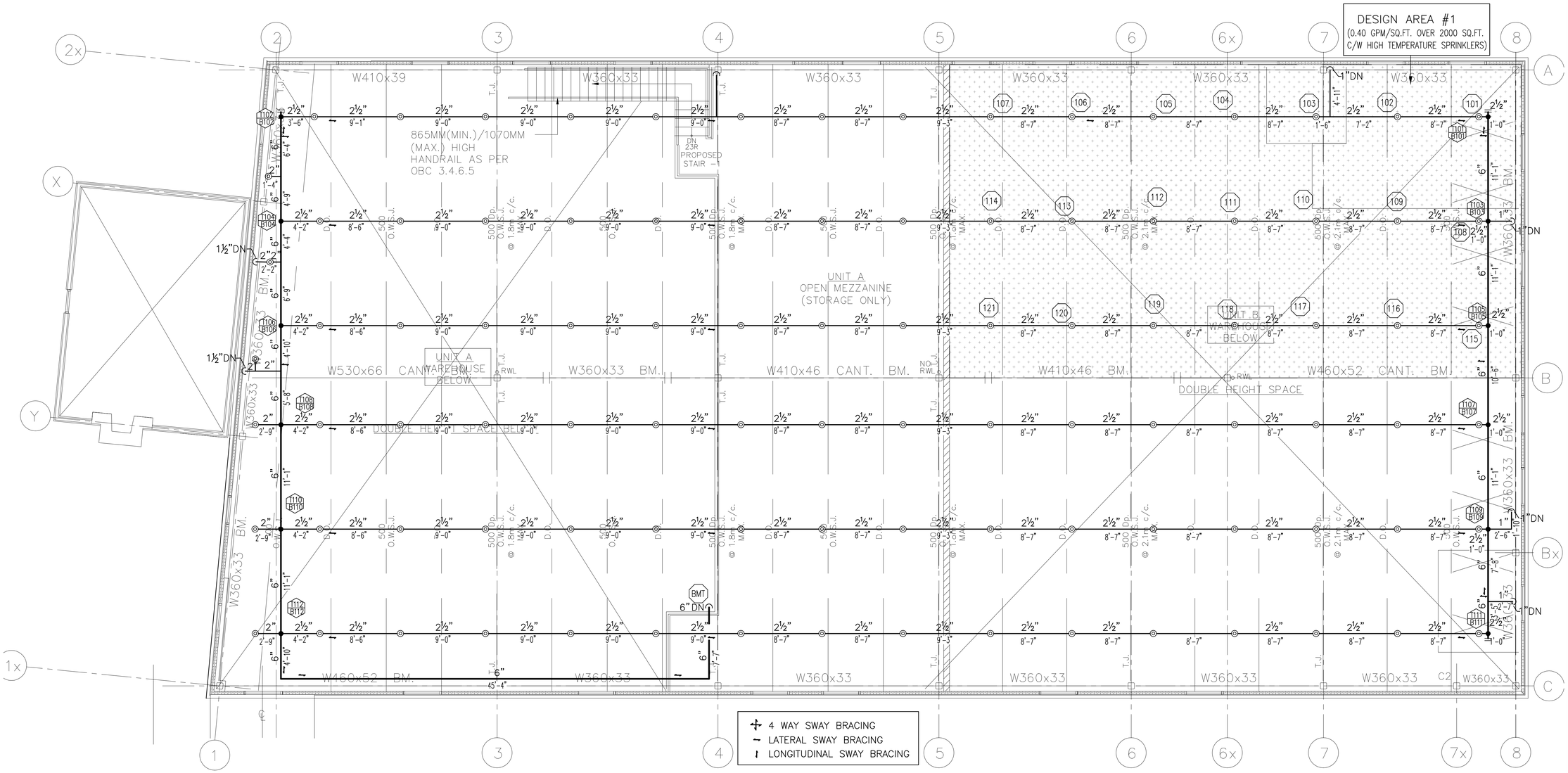


FIGURE A.9.2.3.4 Distance from Sprinkler to Hanger



CEILING LEVEL SPRINKLER SYSTEM
3/16"=1'-0"

ISSUED FOR CLIENT REVIEW

No.	Date:	Revision:	D'wn.	Ch'd.
1	AUG. 04/2026	ISSUED FOR PERMIT	L.W.	S.S.

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◁	1/2" 165°F STANDARD SIDEWALL (K=5.6) Q/R	
⊗	1/2" 165°F STANDARD COVERAGE UPRIGHT (K=5.6) Q/R	
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L. SOSCIA
JULY 29, 2026
PROVINCE OF ONTARIO

PROJECT NAME:
PROPOSED:
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10533 KEELE STREET
VAUGHAN, ONTARIO

DWG TITLE
CEILING SPRINKLER SYSTEMS

Scale	3/16"=1'-0"
Project Start Date	JUL. / 2026
Job No.	24-020
Drawn By	L.W.
Checked By	S.S.
Drawing No.	SP3 OF 3