

**FIRE PROTECTION SPECIFICATIONS TO BE INCLUDED WITH ARCHITECTURAL,
STRUCTURAL, ELECTRICAL AND MECHANICAL ENGINEERS SPECIFICATIONS AND NOVUS WRITTEN SPECIFICATION 00 01 10**

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 SHALL 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 EQUIPMENT (SPRINKLER HEADS, ALARM VALVES, DELUGE VALVES ETC.) SHALL BE PRODUCTS OF ONE MANUFACTURER FROM THE FOLLOWING: TYCO, RELIABLE, VIKING, ASTRA OR APPROVED EQUAL AND SHALL BE U.L.C. LISTED AND F.M. APPROVED FOR THE SPECIFIC APPLICATION.
- .16 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
 - FIRE EXTINGUISHER
- .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

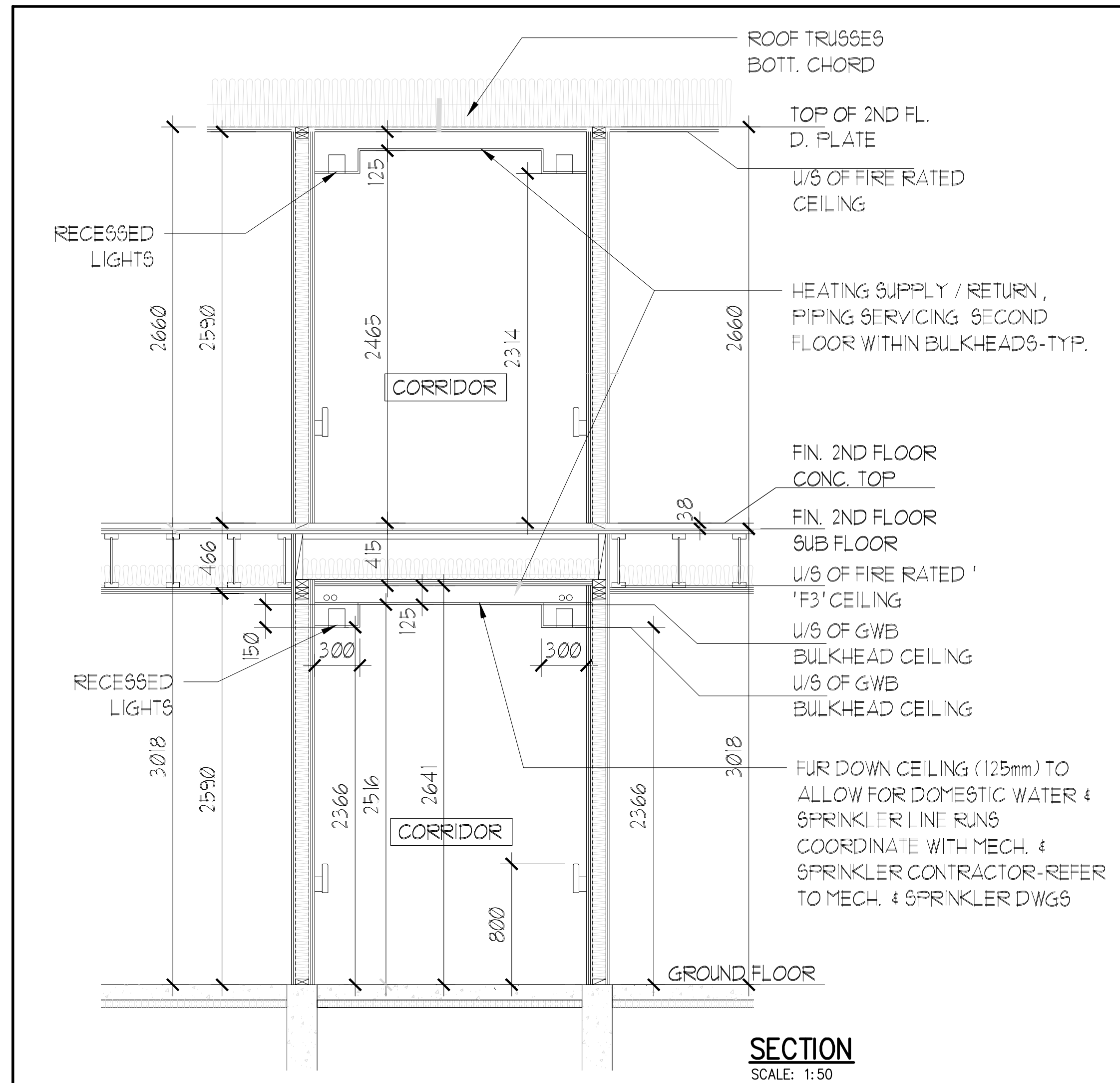
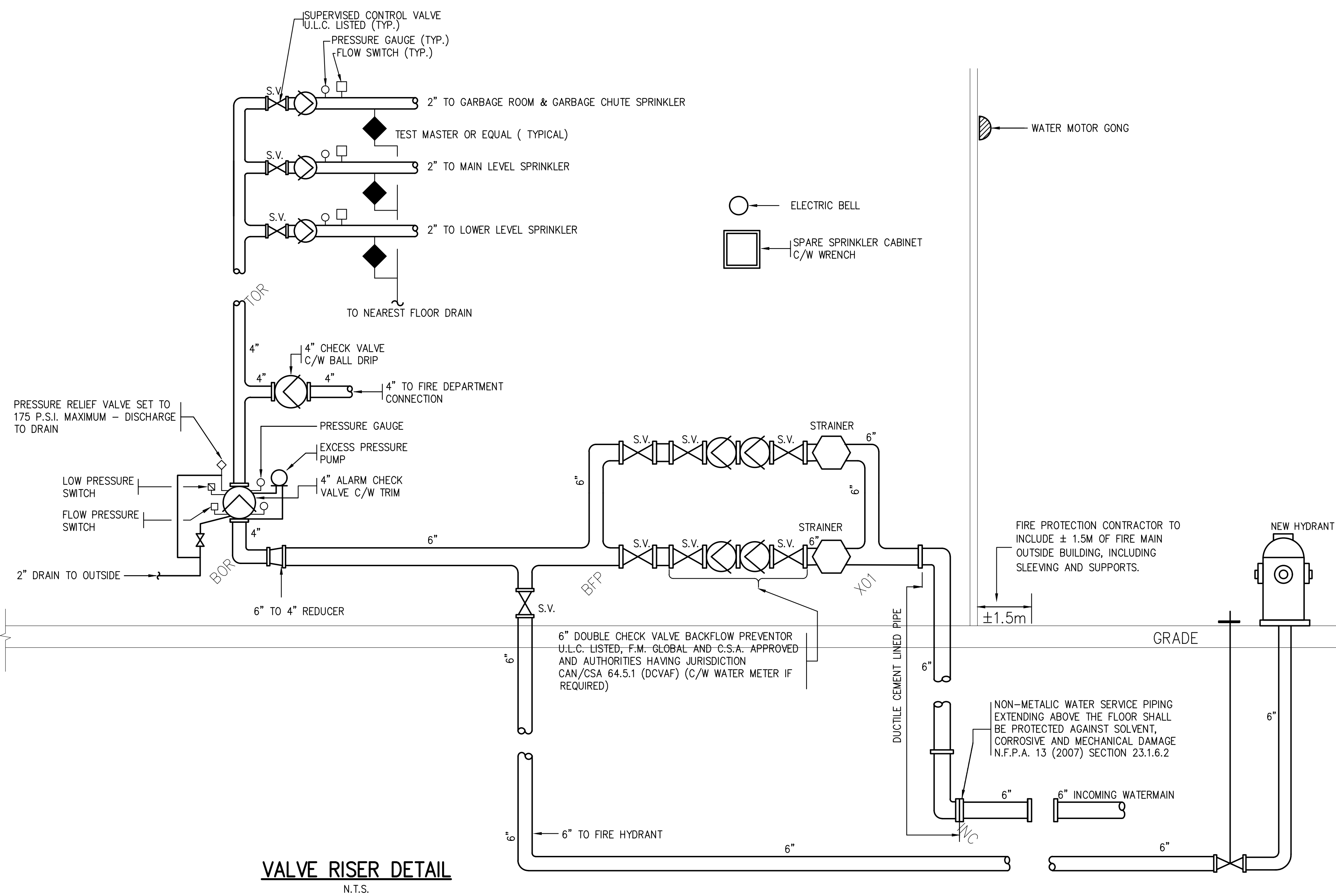
- .1 USE STANDARD WEIGHT STEEL PIPE SLEEVES WHERE PIPES PASS THROUGH MASONRY, CONCRETE OR TILE WALLS AND WHERE FOR PIPES PASS THROUGH MECHANICAL ROOMS AND SERVICE AREA FLOORS. ALL SLEEVES SHALL HAVE MACHINE CUT ENDS.
- .2 SLEEVES THROUGH MECHANICAL ROOMS AND SERVICE AREA FLOORS SHALL TERMINATE 3" ABOVE FINISH FLOOR LEVEL.
- .3 SLEEVES SHALL BE OF SUFFICIENT SIZE TO ALLOW (UNBROKEN) INSULATION, TO PASS THROUGH, LEAVING A 1/2" SPACE BETWEEN THE INSULATION AND SLEEVE.
- .4 ALL OTHER SLEEVES MAY BE EIGHTEEN (18) GAUGE GALVANIZED STEEL.
- .5 AFTER TESTING, THE ANNULAR SPACE BETWEEN PIPES AND SLEEVES SHALL BE COMPLETELY FILLED WITH FIBERGLASS INSULATION AND CAULKED AROUND EDGES WITH AN APPROVED FIRE RATED COMPOUND.
- .6 PROVIDE CHROME PLATES, SOLID BRASS ESCUTCHEONS WITH SET SCREWS ON ALL PIPING, WHERE EXPOSED TO VIEW IN UNFINISHED AREAS.
- .7 PROVIDE MALLEABLE CAST IRON ESCUTCHEONS WITH SET SCREWS ON ALL PIPING, WHERE EXPOSED TO VIEW IN UNFINISHED AREAS. ESCUTCHEONS ARE NOT REQUIRED WHERE PIPING IS INSTALLED AS PER ARTICLE (E).
- .8 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 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.

NOTES:

1. SEE STRUCTURAL DRAWINGS FOR LOCATION AND HANGING SPECIFICATIONS FOR ALL 6" AND 8" 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. THE BUILDING OWNER AND/OR TENANT SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT HEAT TO PREVENT FREEZING OF WATER IN THE SPRINKLER SYSTEM.
6. FIRE PROTECTION CONTRACTOR TO VISIT SITE PRIOR TO FABRICATION OF SPRINKLER SYSTEM PIPING AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
7. FIRE PROTECTION CONTRACTOR TO PROVIDE FIRE EXTINGUISHERS AS PER O.B.C. AND N.F.P.A. No. 10.
8. FIRE PROTECTION CONTRACTOR TO ALLOW FOR:
 1. 10 - 1/2" K=5.6 155F PENDENT SPRINKLERS TO INCLUDE PIPE, FITTINGS, HANGERS AND LABOUR
 2. 10 - 1/2" 155F FULLY CONCEALED RESIDENTIAL PENDENT SPRINKLERS C/W WHITE FLAT PLATE, PIPE, HANGERS AND LABOUR
9. FIRE PROTECTION CONTRACTOR TO PROVIDE SEPARATE PRICE FOR THE USE OF CPVC PIPE IN RESIDENTIAL UNITS



DATE	REVISION	DESCRIPTION	BY
07 DEC. 2018	-	ISSUED FOR CONSTRUCTION	D.A.
15 OCT. 2018	1.	REVISE 4" DOMESTIC TO 2"	D.A.
10 JULY 2018	-	REVISE ROOMS 231, 235, 236 & 237	D.A.
04 JULY 2018	-	ISSUED FOR PERMIT & TENDER	D.A.
29 JUNE 2018	-	ISSUED FOR REVIEW & PERMIT	D.A.
14 JUNE 2018	-	ISSUED FOR REVIEW	D.A.

MARK VOID ALL PRINTS DATED PRIOR TO LATEST DATE ABOVE

REVISIONS

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

THIS DRAWING IS THE PROPERTY OF THE ENGINEERS AND MUST BE RETURNED UPON REQUEST OR AT COMPLETION OF THE WORK.

DRAWINGS ARE NOT TO BE SCALED



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DRAWING TITLE

DETAILS AND SPECIFICATIONS

FIRE PROTECTION

DRAWN BY Y.C.	CHECKED BY A.R.	SCALE
DATE APRIL 2018	PROJECT NUMBER 18-096	DRAWING NUMBER FP5 of 6