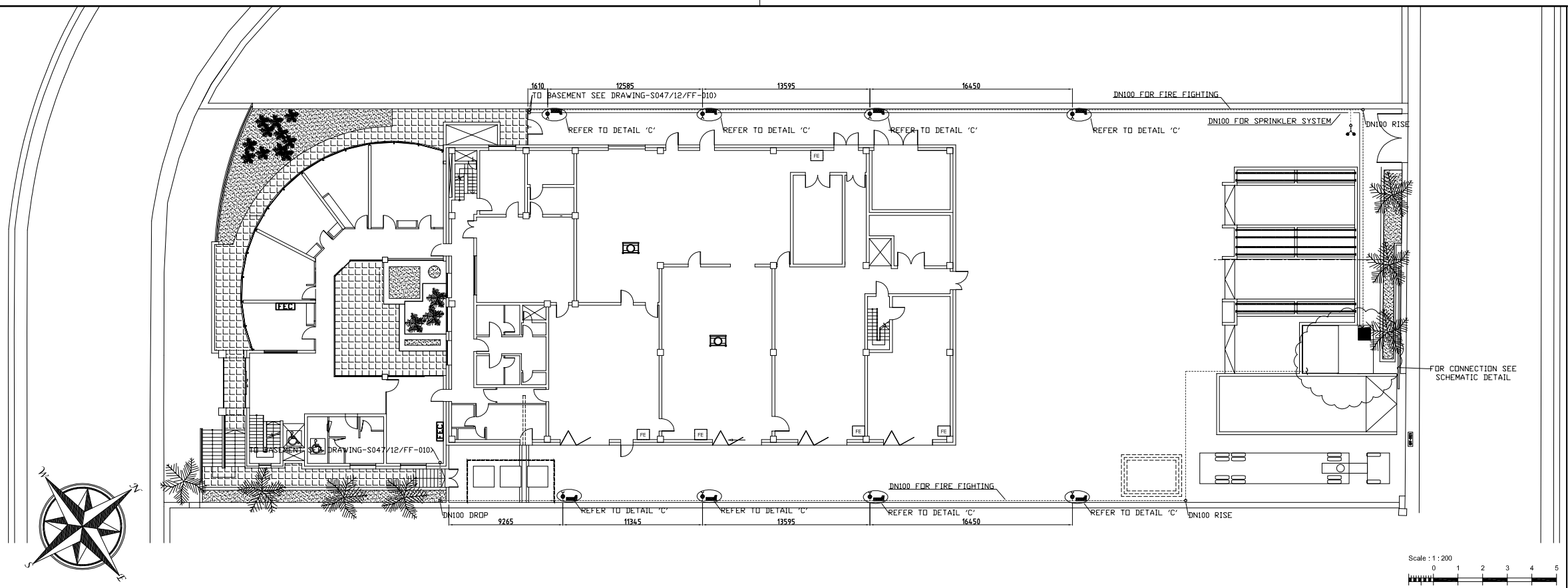


LEGEND

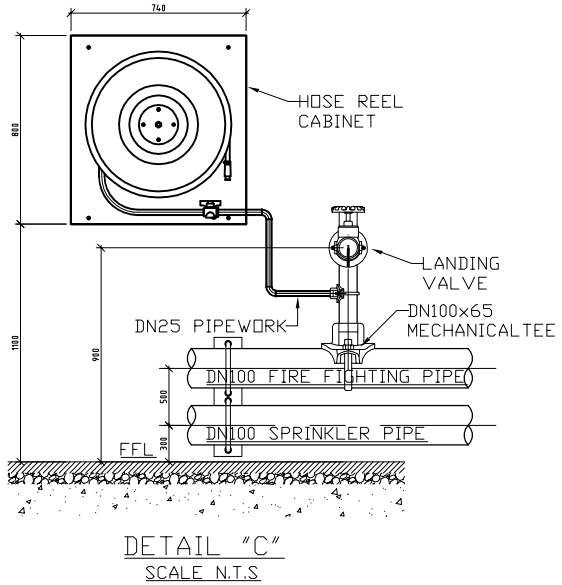
⊘	UPRIGHT SPRINKLER
○	PENDANT SPRINKLER
	ELBOW CHANGE IN LEVEL
	TEE CHANGE IN LEVEL
	FLOW SWITCH
	SHUT OFF VALVE
+xx	DRAIN POINT - xx INDICATES SIZE OF DRAIN VALVE
+Fxx	FLUSHING POINT -(CAPPED CONNECTION XX INDICATES SIZE OF CAPPED CONNECTION)
	FIRE HOSE REEL CABINET
	FIRE EXTINGUISHER CABINET(INCL. OF FOAM, CO2 & DRY POWDER EXTINGUISHER)
FE	WALL HUNG FIRE EXTINGUISHER(POTASSIUM BICARBONATE)
	LANDING VALVE
	INLET BREECHER
	SPRINKLER PIPEWORK
	FIRE FIGHTING PIPEWORK
DNxx	PIPE NOMINAL DIAMETER
(+xxxx	PIPE CENTRE LINE ABOVE F.F.L
	PIPE HANGER (REFER TO DETAILS)
	TEST VALVE
	AUTOMATIC AIR VENTC/W SHUT-OFF VALVE
	FIRE EXTINGUISHER TROLLEY(C/W POTASSIUM BICARBONATE EXTINGUISHER)

NOTES TO CLIENT

1. All new work is designed and installed in accordance with the standard mentioned above, unless stated otherwise.
2. The following work is not considered to be within Alberta's scope of work and shall be carried out by the client:– electric works, builders work, trenching, civil works.
3. Sprinklers heads must not be painted.
4. A clear space of a least 500 mm must be maintained below sprinkler deflectors.
5. Sprinkler temperature is based on a maximum anticipated ambient temperature of 35°c, unless indicated otherwise. It is the responsibility of the client to inform Alberta with any areas where this temperature will be exceeded.
6. Adequate drainage facilities are to be provided for test and waste water.

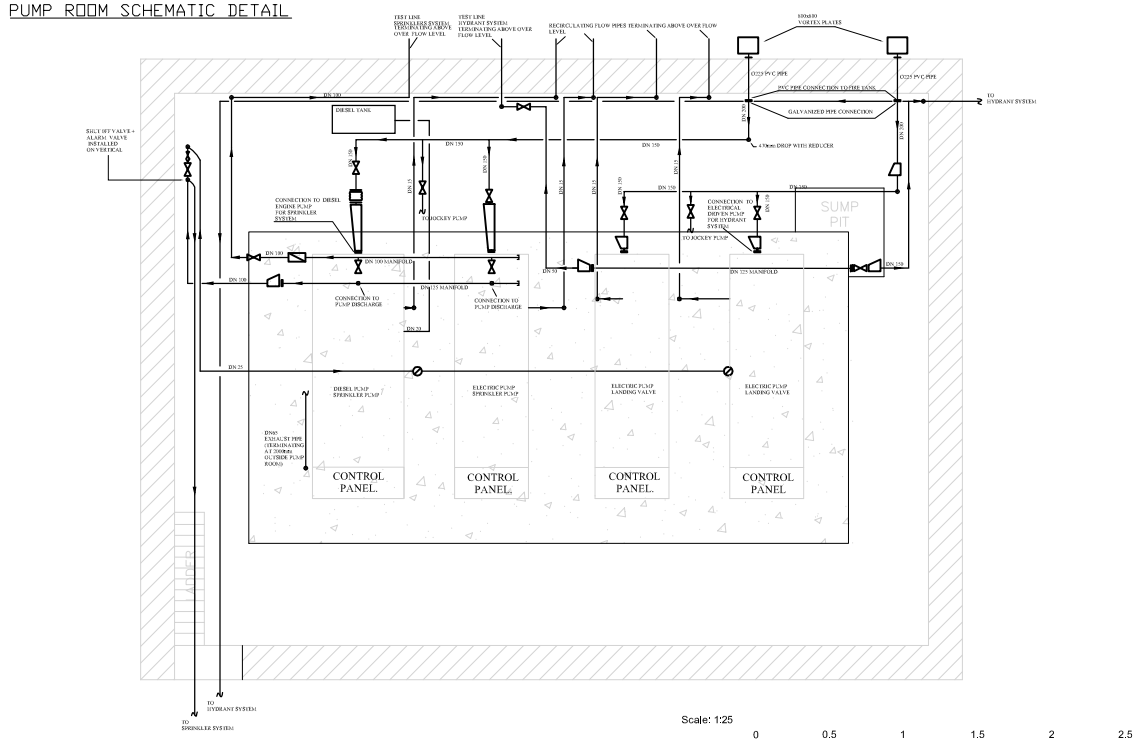
NOTES TO INSTALLERS

1. Supports shall be spaced as indicated on the drawing but not more than 4m apart.
2. When mechanical pipe joints are used:
   i. There shall be at least one support within 1m of each joint;
   ii.There shall be at least one support on each pipe section.
3. The distance from any terminal sprinkler to a support shall not exceed:
   i. 0.9 m for DN25 piping;
   ii. 1.2 m for piping greater than DN25.
4. The distance from any upright sprinkler to a support shall not be less than 0.15 m.
5. Vertical pipes shall have additional supports in the following cases:
   i. pipes more than 2.0m long;
   ii. pipes more than 1.0m long feeding single sprinklers.
6. Finished arm pipes exceeding 450mm long and drops or risers excluding 600mm long shall be fitted with an appropriate bracket.
7. Exposed sprinklers heads shall be installed in the upright position with the deflector parallel to the slope of the roof unless stated otherwise.
8. False ceiling sprinklers shall be installed pendant . Sprinklers accessories shall be installed as indicated in drawing.
9. Alternate pipework shall slope to drain as follows – range pipes with a slope of 0.4%, distribution pipes with a slope of 0.2% . Extra drain point shall be provided where this cannot be done.
10. New installation pipe work shall be tested as follows:–
    Wet pipe work shall be hydraulically tested to no less than 15bar or 1.5 times the working pressure, whichever is the greater for 1 hour.
    Dry pipe work shall be pneumatically tested to no less than 2.5bar for 24 hours. Calibrated pressure gauges shall be used. Pressure test certificate to be completed and signed by client.
11. Drain valves shall be installed at no more than 3000mm above floor level and plugged.
12. Pipe work shall be galvanized and painted in red.
13. Pipe bores are to be inspected for debris and obstructions before installation.
14. If pipework cannot be installed to drawing, designer is to be consulted at the earliest opportunity.
15. All pipework changes are to be marked up on site copies of drawings and returned to designer for preparation of as installed drawings.
16. Sprinklers, multi–jet controls and sprayers are to be kept in packaging until immediately prior to fitting. They should preferably be fitted to pipes in situ, or fitted immediately prior to the installation of pipework.
17. All rolled grooves shall be checked for correct depth using callipers or tapes.
18. Range pipes shall only be connected to the top or side of distribution pipes.



DETAIL "C"
SCALE N.T.S

PUMP ROOM SCHEMATIC DETAIL



LEGEND:FOR FIRE PUMP ROOM:

- ISOLATING VALVE
- FLEXIBLE JOINT
- ECCENTRIC REDUCER (INSTALLED TOP FLAT)
- FIRE FIGHTING PIPEWORK CHANGE IN LEVEL
- FLANGED CONNECTION
- FLOW METER

NOTES

VENTILATION ARRANGEMENTS TO BE ADDED IN SUBSEQUENT REVISIONS FOLLOWING ADDITIONAL CLARIFICATIONS.

DESIGN SPECIFICATION

Installation standard:	BS EN 12845	Storage Configuration:	Not Applicable
Hazard classification:	OH3	Storage Category:	Not Applicable
Density of discharge:	5mm/min	Maximum Storage Height (m):	Not Applicable
Area of operation:	216m	Height of Sprinklers above C gauge (m):	4.2m
Protection:	Property		
Design basis:	FHC		
Occupancy:	Pump room		
Installation no., size and type:	N01/DN100/WET		
Installation:	Zoned		
Zoned installation:	Non high rise		
Floor area protected by zone:	As indicated on drawing		
Type of water supplies:	Superior Single		

SPRINKLER HEADS SCHEDULE

Area of Protection	Construction: Walls	Construction: Roof/Ceiling	Sensitivity rating	K-factor	Connection size	Temperature rating	Sprinkler type	Finish	Accessories	QTY	Manufacturer	Model
Pump Room	Concrete	Concrete Slabs	Standard	80	15mm	68°C	Upright	Brass	None	2	Victaulic	V2703

MATERIALS / EQUIPMENT SCHEDULE

Pipes up to and including DN150	BS EN 10255 Medium Series galvanised(Not Painted but covered with denso tape in trench)	
Fittings up to and including DN50	Threaded, Galvanised, to BS EN 10242	
Fittings DN65 and above	Mechanical grooved fittings, Galvanised	

Rev. no	Date	Modification	Drawn	Checked
B	16.05.13	AS FITTED	D.A.	S.A.
A	07/01/13	AS FITTED	J.V	S.A.

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JOB TITLE: STERLING S.N.I.F.F – HAL FAR

JOB NO.: 15239

DRAWING TITLE:

FIRE FIGHTING & SPRINKLER SYSTEMS
EXTERNAL/PUMP ROOM
GROUND LEVEL

DETAILED DESIGN DRAWING ISSUED BY: CAMILLERI & CUSCHIERI

INSTALLATION DRAWING

DESIGNED BY:	Ing. SANDRO ATTARD	SCALE:	1:200 (A1)
DRAWN BY:	JOSEPH VISHAL	DATE:	15 NOV 12
CHECKED BY:	ADRIAN SALIBA	DRAWING NO.:	S047/12/FF–011
		REV:	B