

FORT LANGLEY

FIRE PROTECTION SYSTEM REHABILITATION



FIRE PROTECTION LEGEND	
○ UPRIGHT OR PENDENT, 15mm (1/2"), 1/2" FACTOR 80.7(5.6), 100°C(212°F), ELECTROLESS NICKEL PIPE COATING.	◆ DRY ALARM VALVE
◁ SIDEWALL, 15mm (1/2"), 1/2" FACTOR 80.7(5.6), 74°C (165°F), ELECTROLESS NICKEL PIPE COATING.	☒ WATERFLOW SWITCH
* INDICATES CHROME PLATED LISTED GUARD.	☒ WATER PRESSURE SWITCH
	☒ SUPERVISED SHUT-OFF VALVE
	— NEW SPRINKLER PIPE
	- - - NEW DRY SYSTEM PIPE
	— EXISTING WET SPRINKLER PIPE
	○ EXISTING BRASS UPRIGHT
	◁ EXISTING SIDEWALL
	--- EXISTING HEAD/PPING TO BE REMOVED

GENERAL NOTES	
1.	CONTRACTOR SHALL CONFIRM LOCATION AND SIZE OF ALL HOLES THROUGH STRUCTURAL MEMBERS WITH HERITAGE CONSULTANT AND STRUCTURAL ENGINEER PRIOR TO IMPLEMENTATION.
2.	BUILDING OCCUPANCY IS ORDINARY HAZARD GROUP 1 THROUGHOUT.
3.	WHERE TEST AND DRAINS DISCHARGE TO GRADE AND A PAVED SURFACE IS NOT PRESENT, PROVIDE A 600x600 PRECAST SPLASH PAD TO PREVENT UNNECESSARY EROSION.
4.	SHIELDS TO PROTECT ELECTRICAL EQUIPMENT SHALL BE INSTALLED.
5.	NOT ALL FITTINGS AND SPRINKLERS ARE SHOWN, SOME ADDITIONAL WILL BE REQUIRED DUE TO FIELD CONDITIONS. SUBSERS SHALL TAKE THIS INTO CONSIDERATION WHEN PREPARING THEIR BIDS. VERIFY ALL SPRINKLER LOCATIONS WITH HERITAGE CONSULTANT PRIOR TO INSTALLATIONS.
6.	SOME CUTTING AND PATCHING WILL BE REQUIRED FOR THIS PROJECT. THE STORE HOUSE BUILDING IS FIBRO CLASSIFIED AND ALL ADDITIONAL CUTTING AND PATCHING SHALL BE VERIFIED BY THE HERITAGE CONSULTANT.
7.	ALL NEW PIPING THROUGH FIRE SEPARATIONS SHALL BE FIRE STOPPED WITH TESTED INSTALLATION PROCEDURES AND FIRESTOP MATERIAL APPLICATION OF FIRESTOP MATERIAL TO BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SHALL COMPLY WITH ULC TEST REQUIREMENTS. REFER TO SPECIFICATIONS.
8.	ROUTING OF SPRINKLER PIPING INDICATED ON PLANS IS PRIMARILY BASED ON A TYPICAL FLOOR PLAN LAYOUT. ANY VARIANCE NOTED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE HERITAGE CONSULTANT AND ENGINEER PRIOR TO PIPING INSTALLATION.
9.	CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PIPING WITH EXISTING SMOKE DETECTORS, RECEPTACLES, EXIT SIGNAGES AND LIGHTS. ENSURE A MIN. DISTANCE OF 150mm CLEARANCE FROM SMOKE DETECTORS IS MAINTAINED.

M.B.
Mar. 16, 2017

PLUMBING (RENOVATION) LEGEND		
— EXIST. DOM. COLD WATER	— PIPE RISER	— NON-FREEZE WALL HYDRANT
— EXIST. DOM. HOT WATER	— PIPE DROP	☒ PUMP
— S EXIST. SANITARY SEWER	— VENT PIPE	☒ SUPERVISED SHUT-OFF VALVE
— ST EXIST. STORM DRAIN	— DRAIN LINE BELOW SLAB	☒ BACKFLOW PREVENTER
— G EXIST. GAS	— PIPE CAP	☒ AIR VENT
— X EXIST. SUB-SOIL DRAIN	☒ ISOLATION VALVE	☒ VACUUM BREAKER
— EXISTING PIPING TO BE REMOVED OR ABANDONED. REMOVE ALL ACCESSIBLE PIPING.	☒ CHECK VALVE	☒ PRESSURE GAUGE WITH SPHON
— DOMESTIC COLD WATER	☒ STRAINER	☒ TEMPERATURE GAUGE
— DOMESTIC HOT WATER	☒ UNION	☒ FLEXIBLE CONNECTOR
— DOMESTIC TEMPERED HOT WATER	☒ CLEANOUT	☒ EXPANSION COMPENSATOR AND ALIGNMENT GUIDES
— DOMESTIC HOT WATER RECIRCULATION	☒ CONCRETE THRUST BLOCK	☒ PIPE ANCHOR
— DOMESTIC HOT WATER HEAT TRACED	☒ HOSE BIBB	☒ POINT OF CONNECTION
— SANITARY DRAIN/SEWER	☒ FLOOR DRAIN	☒ POINT OF DISCONNECTION
— ST STORM DRAIN/SEWER	☒ MANHOLE	☒ SIZE OF PIPE (FIXTURE UNITS)
— G GAS	☒ LAVIN BASIN	☒ TO BE REMOVED
— FLOW DIRECTION	☒ CATCH BASIN	

DRAWING LIST	
F-1	COVER PAGE
F-2	FIRE PROTECTION AND PLUMBING
FD-1	FIRE PROTECTION-DEMOLITION
E-1	FORT LANGLEY STORE HOUSE

ABBREVIATIONS	
ABBREV.	DESCRIPTIONS
AFF	ABOVE FINISHED FLOOR
FD	FLOOR DRAIN
PRV	PRESSURE REDUCING VALVE
BFP	BACKFLOW PREVENTER

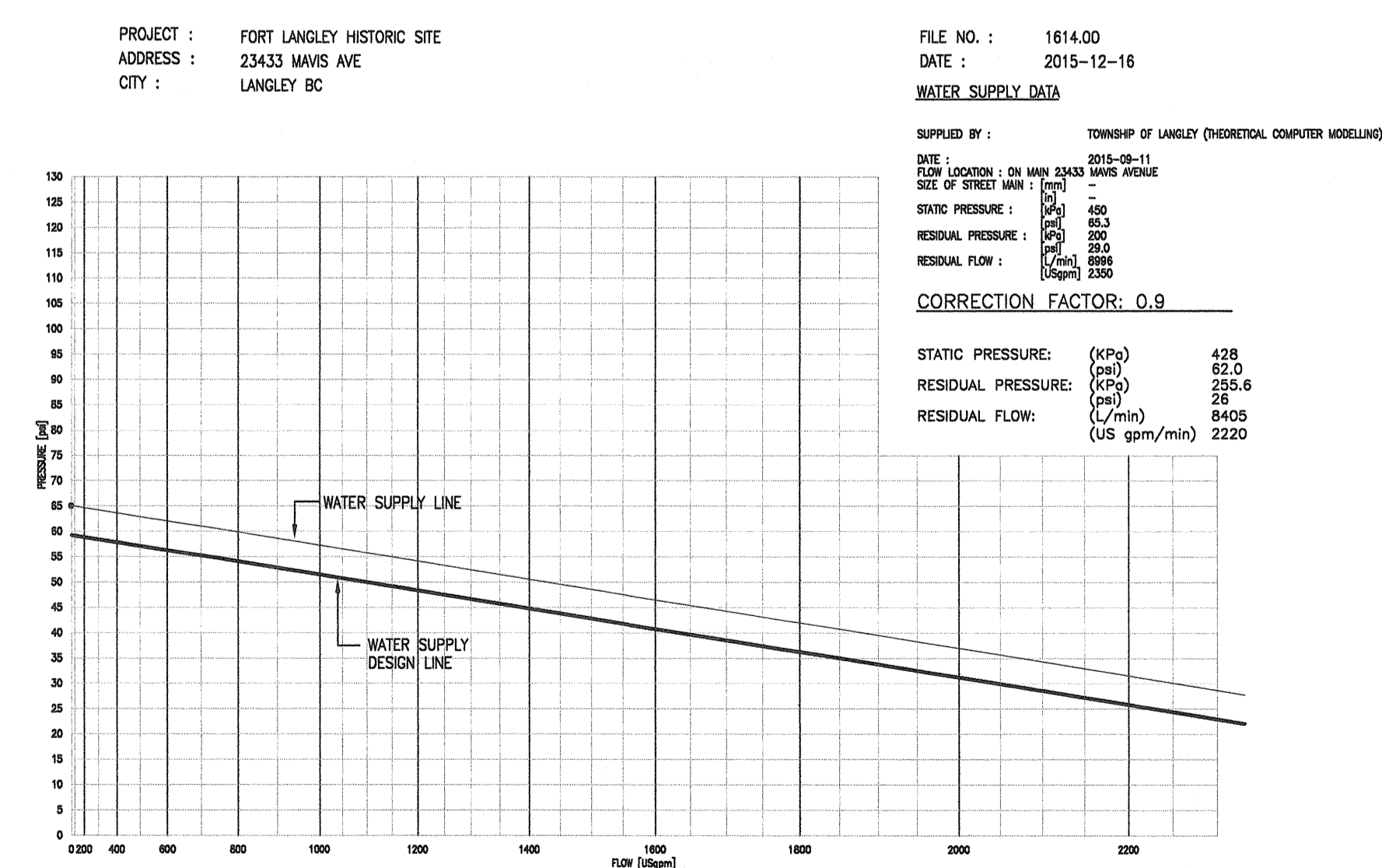
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2	ISSUED FOR 99% REVIEW	16-09-20
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Client/client: **PARKS CANADA**

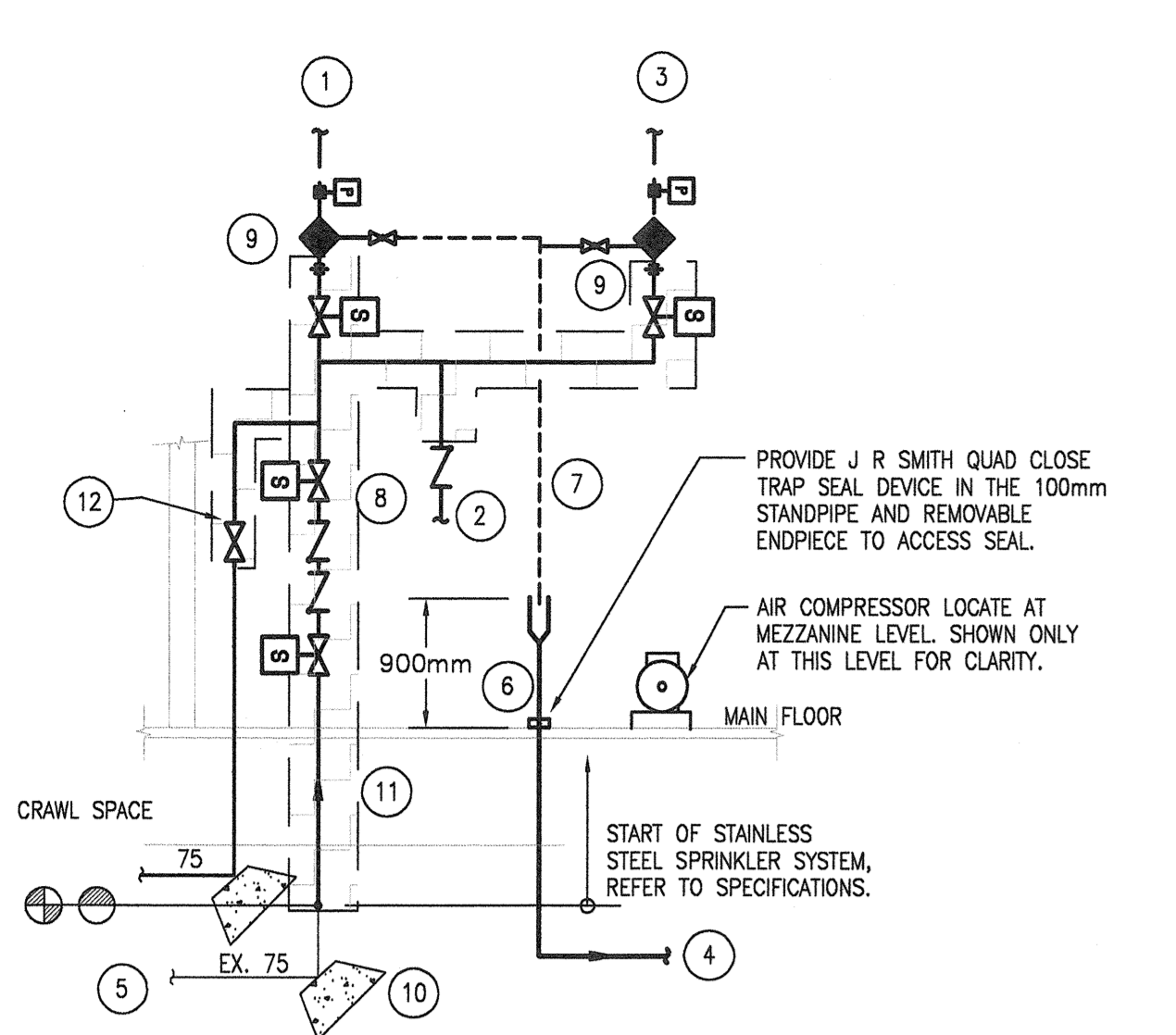
Project title/Titre du projet:
**3 HISTORIC SITE
FIRE SPRINKLER REHABILITATION
FORT LANGLEY**

Consultant Approval Box Only
Designed by/Concept par: RV
Drawn by/Dessiné par: RVVC
PWSC Project Manager/Administrateur de Projets TPSC: TOM DUNPHY
PWSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régional, Services d'architecture et de génie, TPSC: Tom Dunphy
Drawing title/Titre du dessin:
COVER PAGE

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M. J. ...
Mar. 16, 2017



1. TO STORE HOUSE DRY SPRINKLER SYSTEM.
2. TO FIRE DEPT. REMOTE SHAMESE CONNECTION. LINE TO BE HYDROSTATICALLY TESTED.
3. DRY PIPE SPRINKLER SYSTEM TO CRAWL SPACE.
4. 100 SAN. DRAIN LINE TO SUMP PUMP.
5. 75mm WATER MAIN.
6. 100# X 915mm HIGH STANDPIPE TO ACCEPT SPRINKLER MAIN DRAIN.
7. SPRINKLER DRAIN PIPE.
8. APPROVED DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY.
9. DRY PIPE VALVE. SYSTEM SHALL BE PROVIDED WITH STAINLESS STEEL PIPE, VALVES AND FITTINGS AND PIPE-ELECTROLESS NICKEL COATED SPRINKLER HEADS. REFER TO SPECIFICATIONS.
10. THRUST BLOCK.
11. PROVIDE MONITORED HEAT TRACING AND INSULATION TO ALL WET SPRINKLER PIPING ABOVE CONNECTION POINT (BELOW FREEZING LEVEL). REFER TO ELECTRICAL DRAWINGS.
12. PROVIDE BACKFLOW PREVENTER TEST DRAIN SIZED FOR SYSTEM DEMAND, DISCHARGE TO OUTSIDE AT A LOCATION AVOIDING FLOODING AND DAMAGE TO LANDSCAPE. SEE PLAN FOR OUTLET LOCATION.

SPRINKLER VALVE STATION SCHEMATIC N.I.S.



PHOTO 1

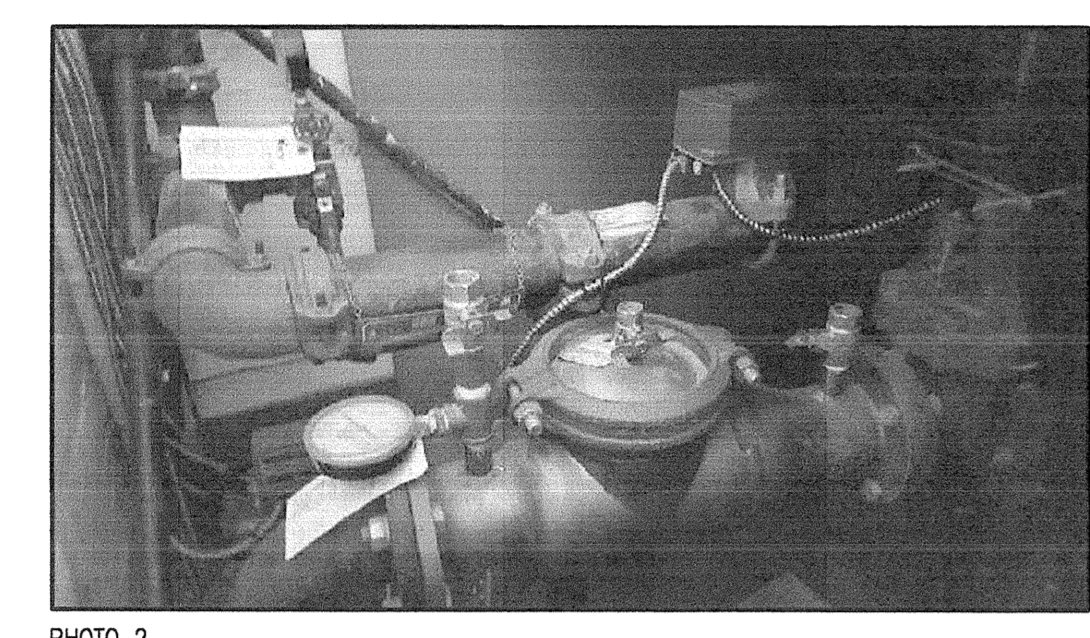
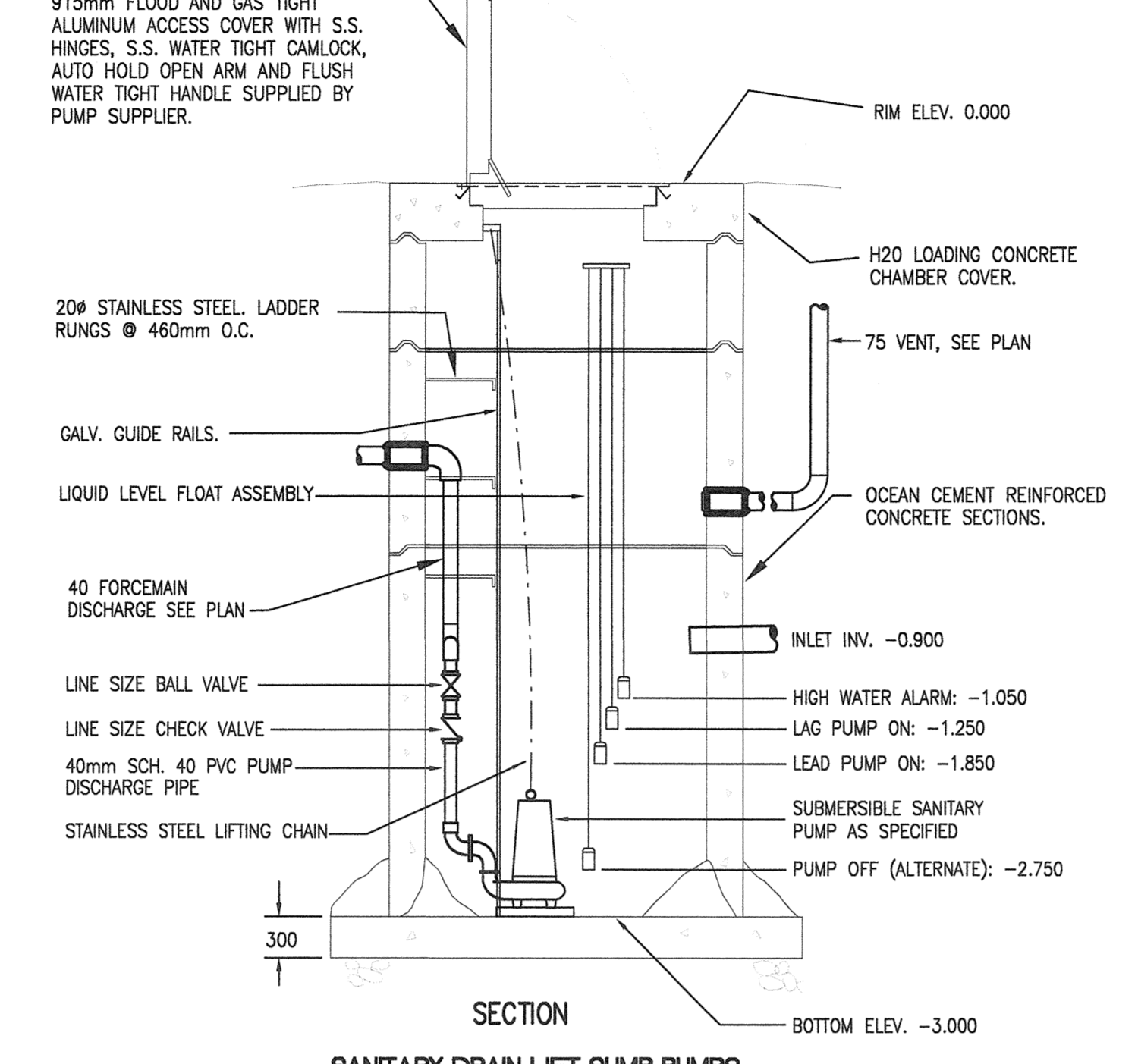
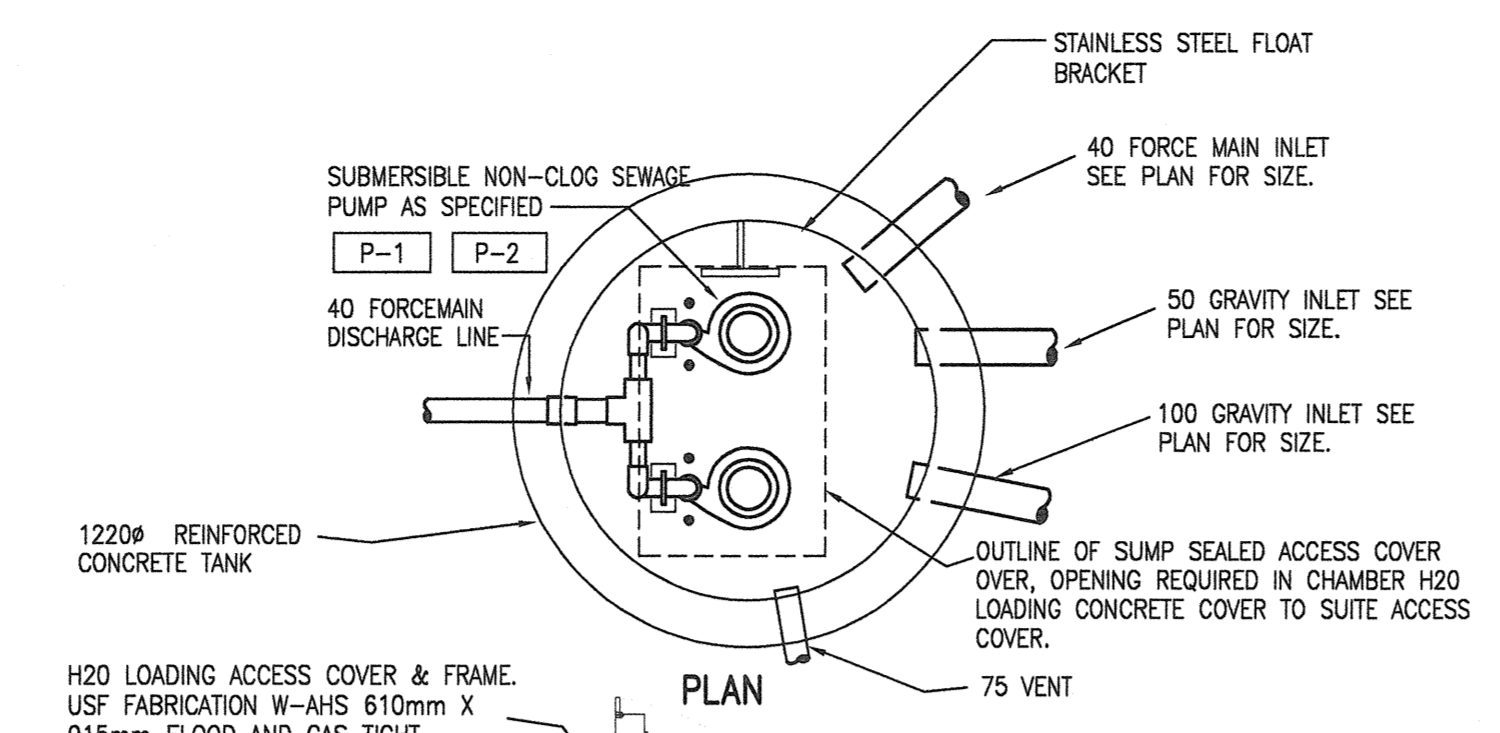
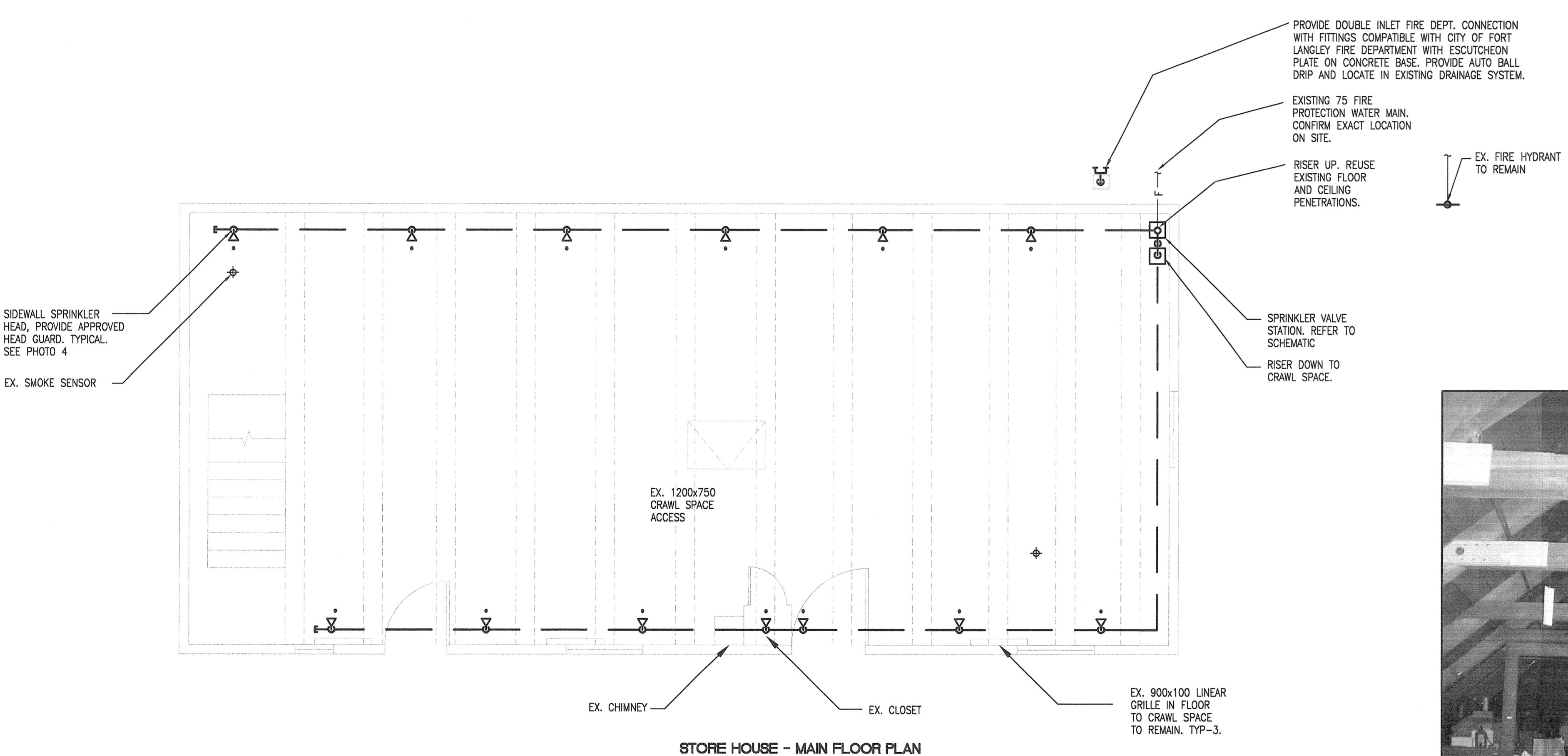


PHOTO 2



SANITARY DRAIN LIFT SUMP PUMPS N.I.S.



STORE HOUSE - MAIN FLOOR PLAN 1:50

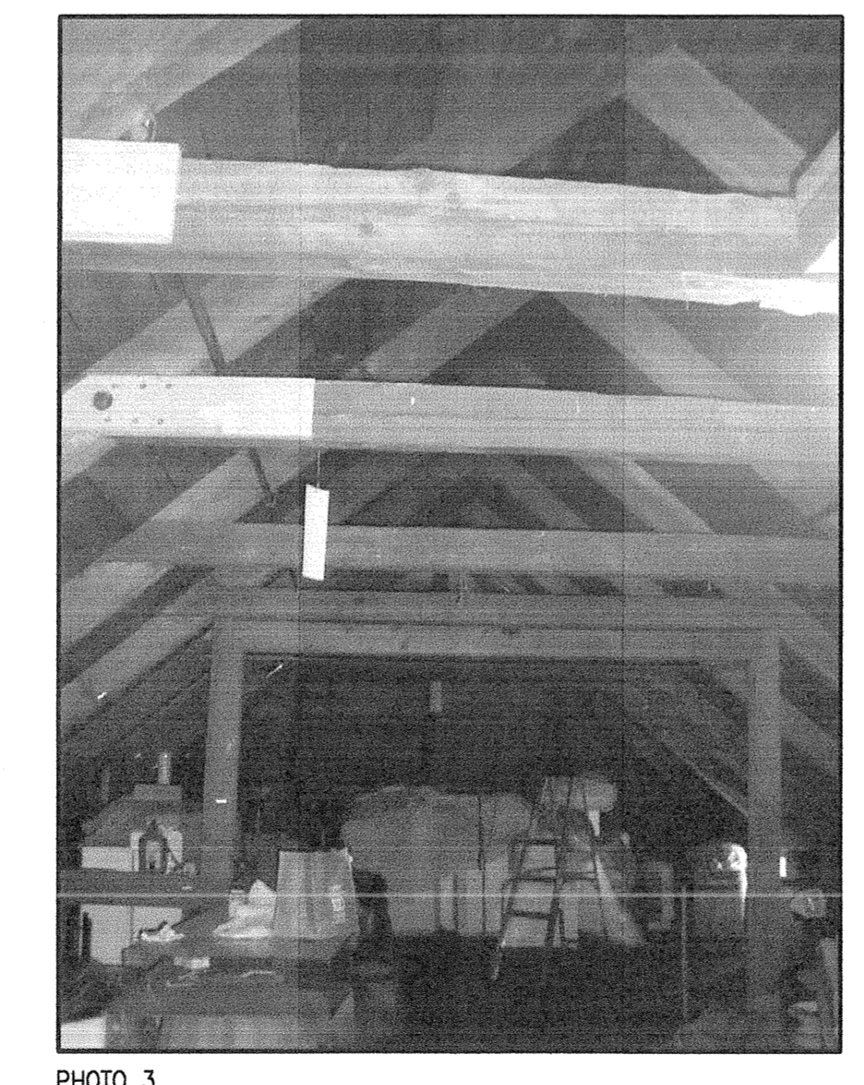
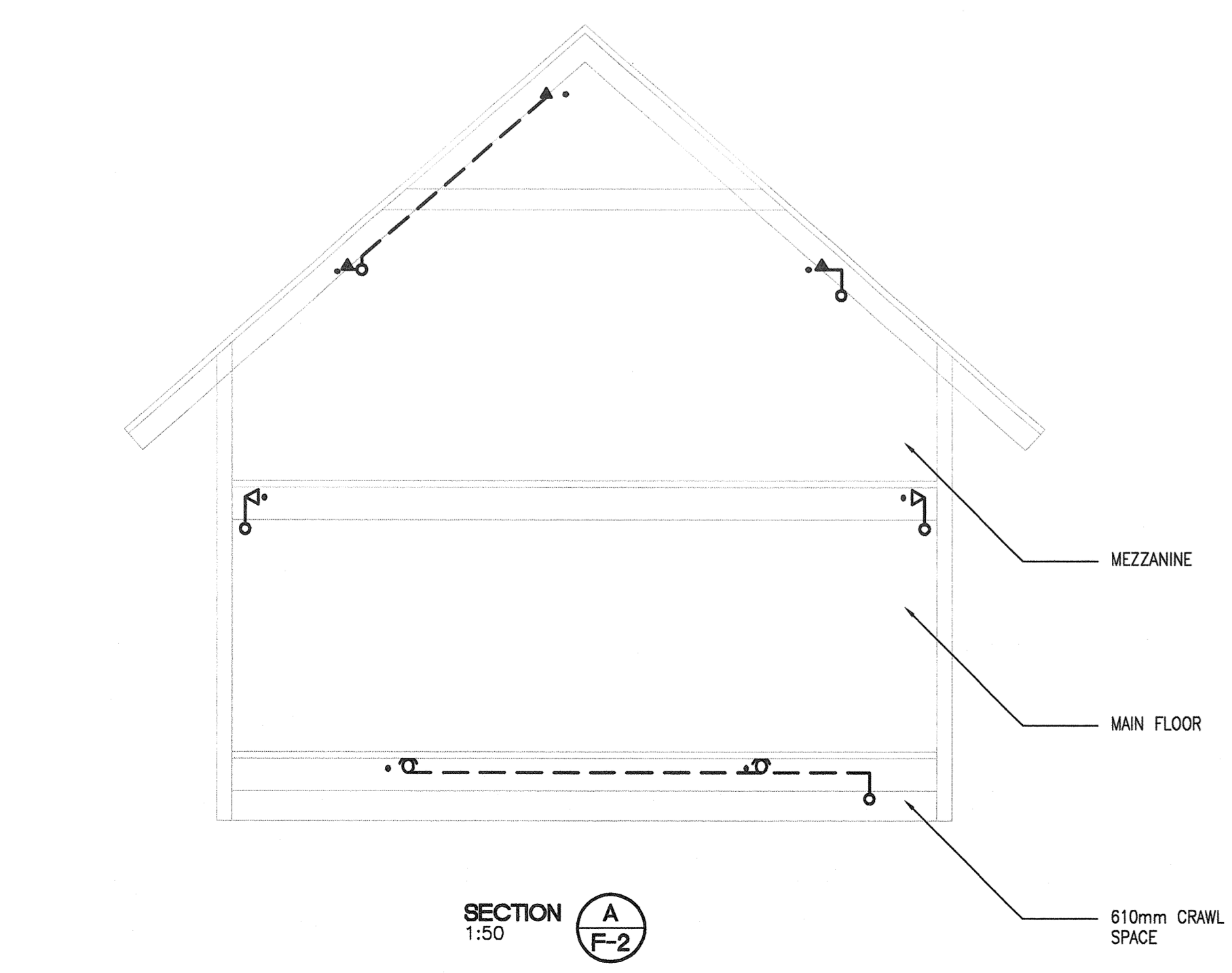


PHOTO 3



SECTION A-F-2 1:50

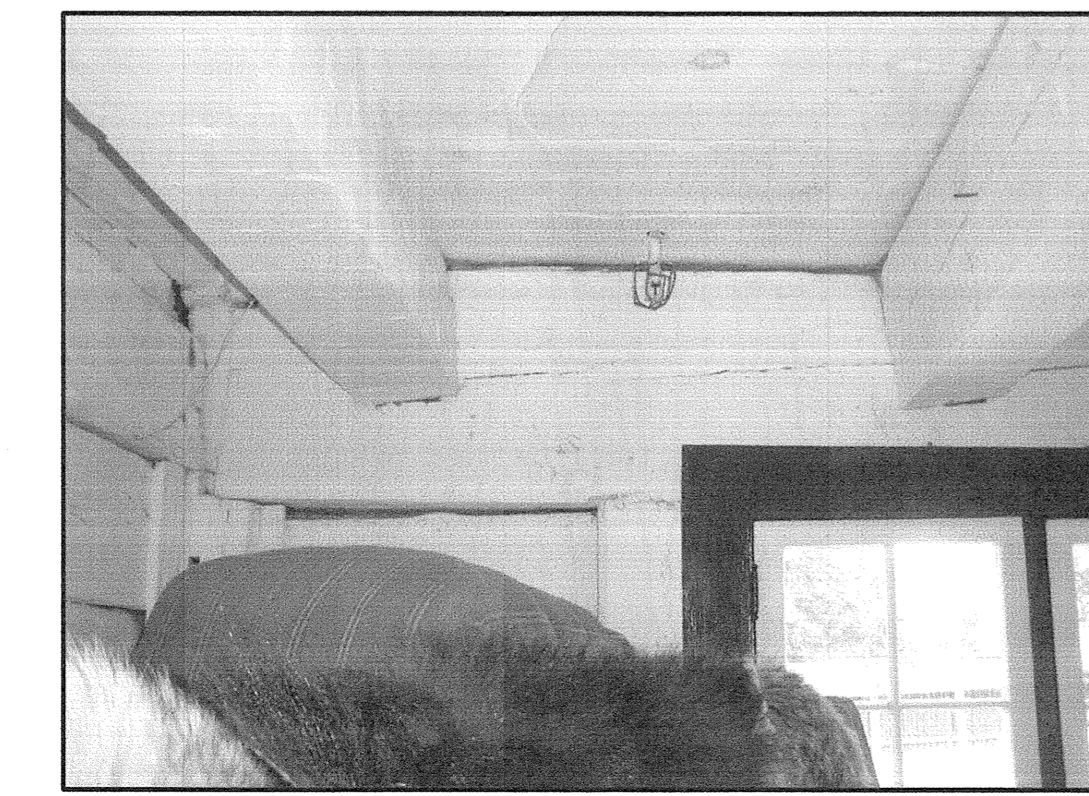
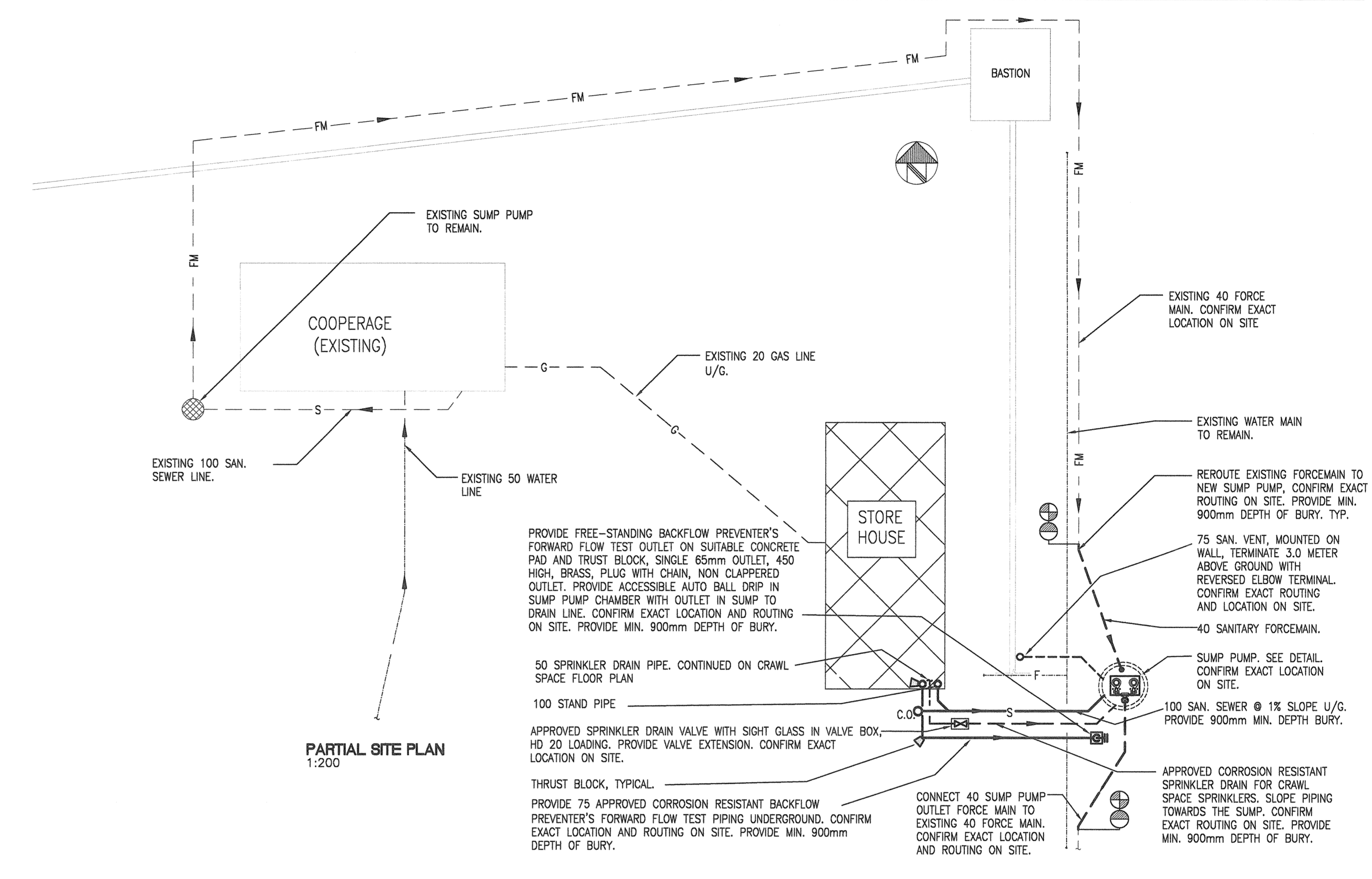


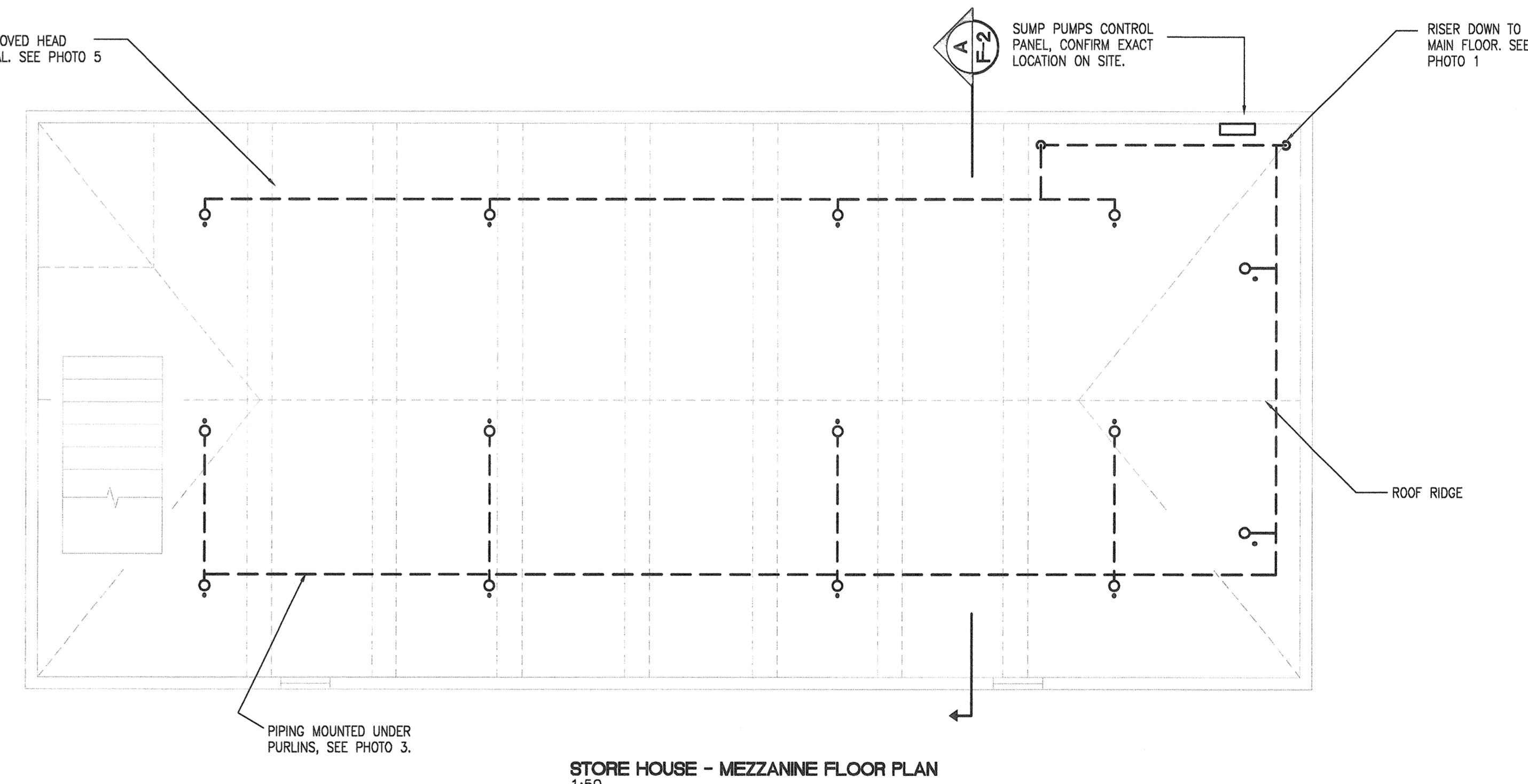
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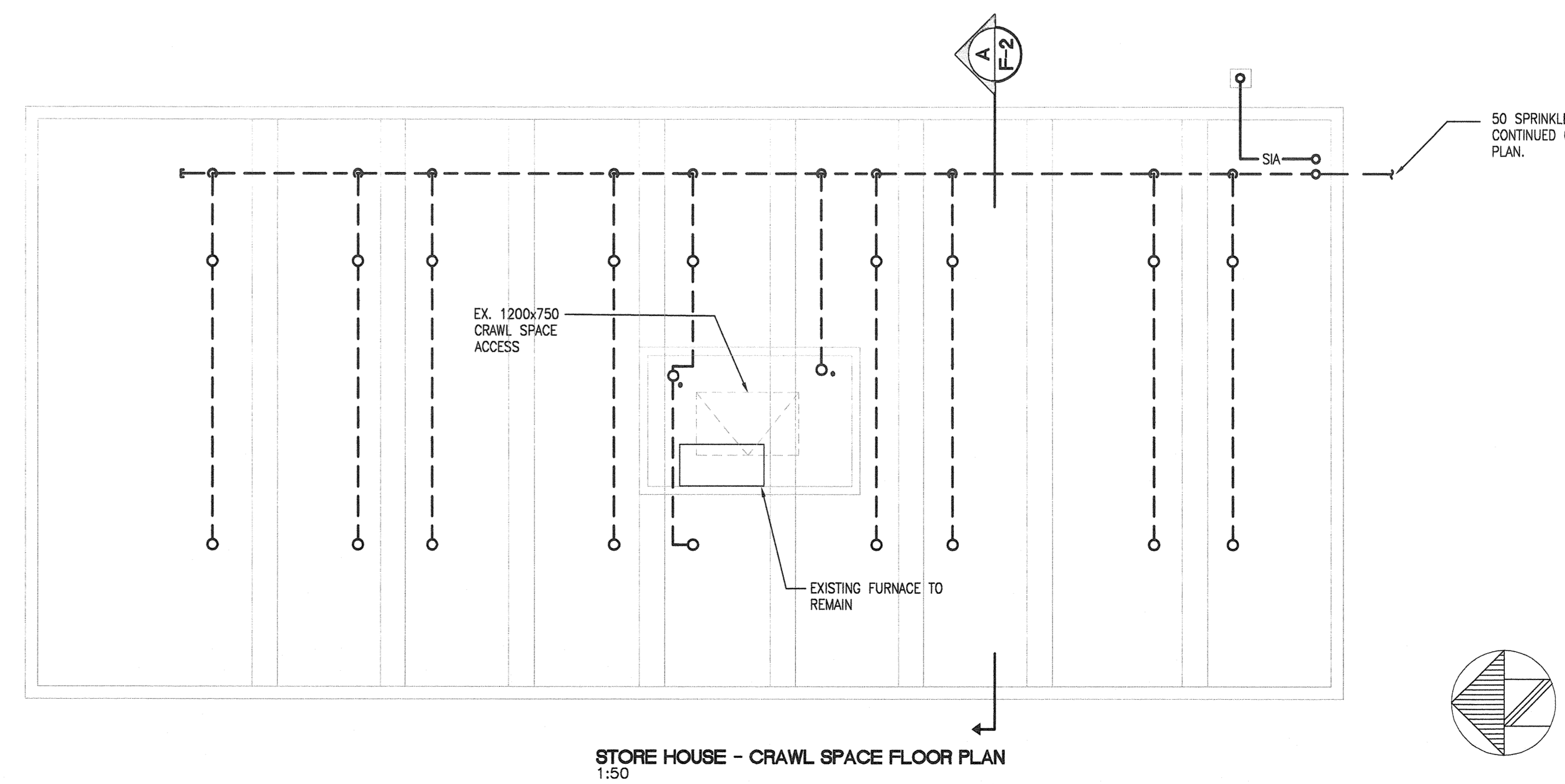
PHOTO 5



PARTIAL SITE PLAN 1:200



STORE HOUSE - MEZZANINE FLOOR PLAN 1:50



STORE HOUSE - CRAWL SPACE FLOOR PLAN 1:50

- DRAWING F-2 NOTES:**
1. REMOVE EXISTING SPRINKLER SYSTEM, REFER TO DEMOLITION DRAWINGS AND PROVIDE DRY SPRINKLER SYSTEM PROTECTION FOR EACH ZONE IN THE EXISTING BUILDING CONFORMING TO NFPA 13, 2013. USE ORDINARY HAZARD GROUP 1.
 2. PROVIDE FIRE WATCH IF ANY OF THE FIRE ALARM SYSTEM, AUTOMATIC SPRINKLER SYSTEM, OR EMERGENCY POWER SYSTEM OR IF ANY PORTION OF THESE SYSTEMS IN THE BUILDING IS NOT OPERATING. THE FIRE WATCH SHALL BE MAINTAINED UNTIL ALL REQUIRED SYSTEMS ARE IN OPERATION.
 3. EXISTING ROUTING OF THE PIPING TO BE REUSED. CONFIRM EXISTING ROUTING OF PIPING ON SITE.
 4. PROVIDE SPRINKLER SYSTEM FOR THE ENTIRE BUILDING WITH STAINLESS STEEL TYPE 316 PIPE, VALVES AND FITTINGS STARTING FROM THE FIRE PROTECTION WATER SUPPLY CONNECTION UP TO THE DRY VALVES. REFER TO SCHEMATIC AND SPECIFICATIONS.
 5. PROVIDE PAINTING FOR STAINLESS STEEL PIPE AND FITTINGS. ROUGHEN, DRY AND CLEAN AND RUST, FOREIGN MATERIALS, OIL AND GREASE FREE BEFORE APPLYING PRIME COAT AND TWO COATS OF CONTRASTING RE-COATABLE COLOUR OF PAINT FINISH TO ENSURE COMPLETE COVERAGE OF COMPONENTS. MATERIALS SHALL BE SUITABLE FOR TYPE 316 STAINLESS STEEL. REFER TO HERITAGE CONSULTANT FOR COLOUR BLENDING AND AESTHETIC COMPATIBILITY REQUIREMENTS. SUBMIT PAINT COLOUR CHIP SAMPLES TO HERITAGE CONSULTANT FOR REVIEW AND APPROVAL.
 6. PROVIDE FULL FLOW TEST OF THE SPRINKLER SYSTEM BACKFLOW PREVENTER AS PER NFPA 13 2013 TO CONFIRM THAT THE ACTUAL FLOW RATE MEETS OR EXCEEDS THE DESIGNED FLOW RATE. LENGTH OF TEST TO BE CONDUCTED WITHIN FIVE (5) MINUTES. TEST DRAIN OUTLET CONNECTION SHALL BE PROVIDED WITH VALVE AND DECHLORINATION SYSTEM AND DRAIN CAN BE DISCHARGED DIFFUSELY ON THE LANDSCAPE AND TESTING CONDUCTED AT THE OUTLET. PROVIDE FLOODING AND EROSION PREVENTION SYSTEM AS REQUIRED. PROVIDE LABELING AS REQUIRED. TESTING PROCEDURE TO BE INCORPORATED IN THE O&M MANUAL.

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PWSC Project Manager/Administrateur de Projets TPSC: TOM DUNPHY
PWSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de gén. TPSC: (Professional Seal)

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**FIRE PROTECTION
AND PLUMBING**

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R.076121.001	F-2 OF 2	3

M. Bean
Mar 15, 2017

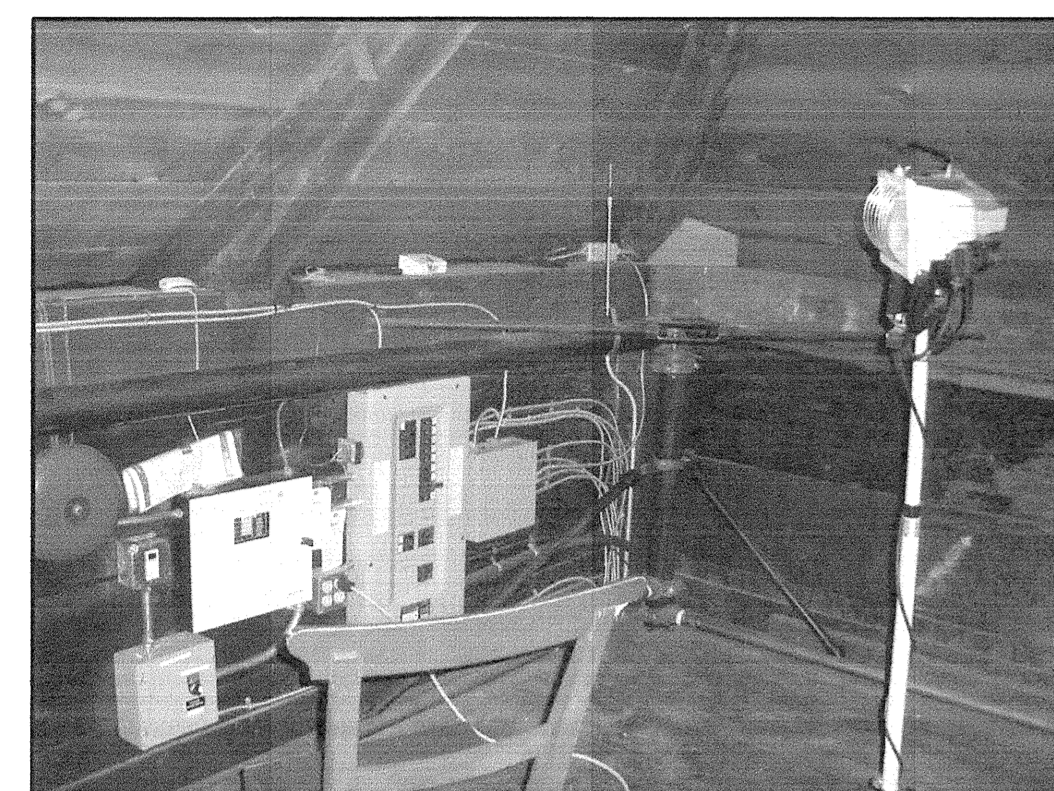


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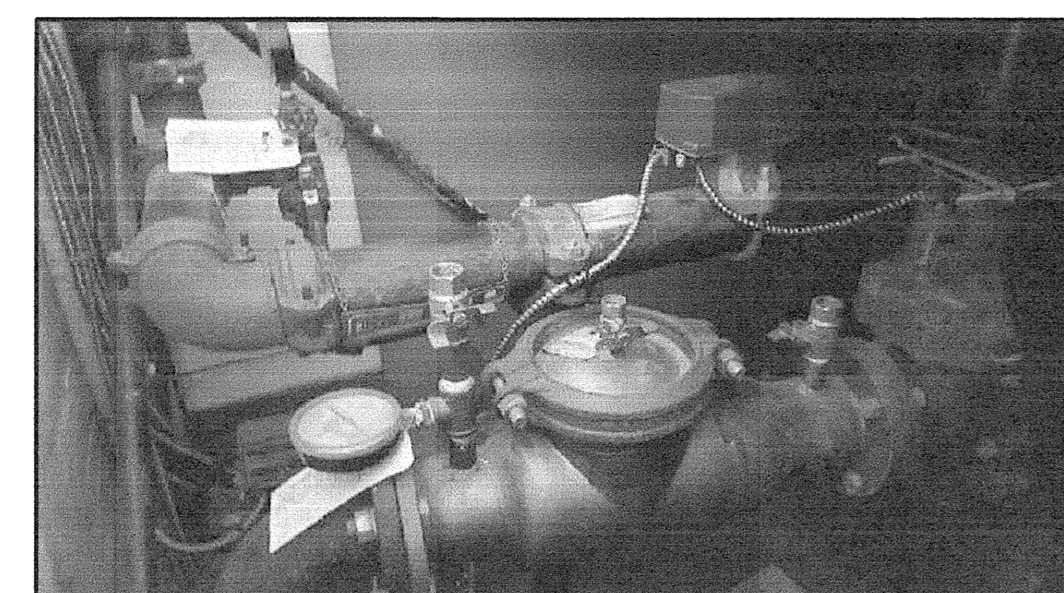


PHOTO 2



PHOTO 3

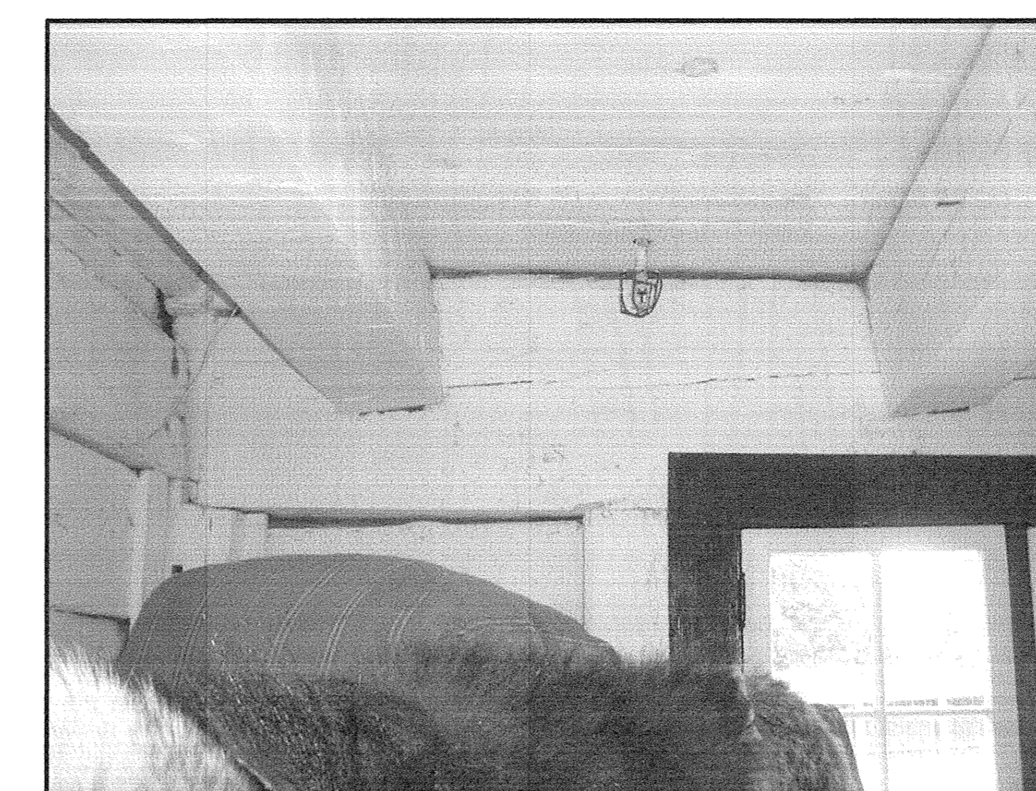
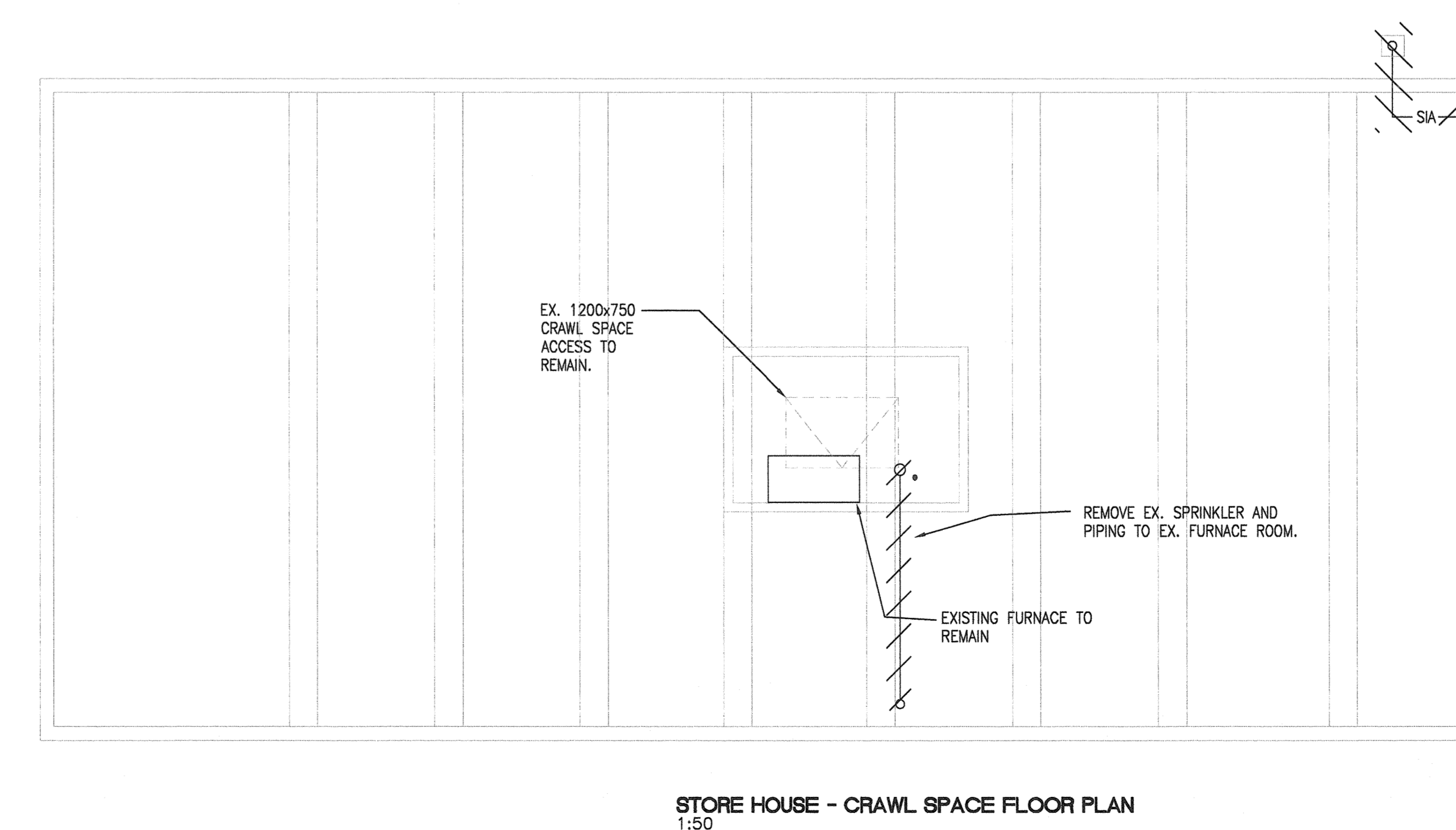
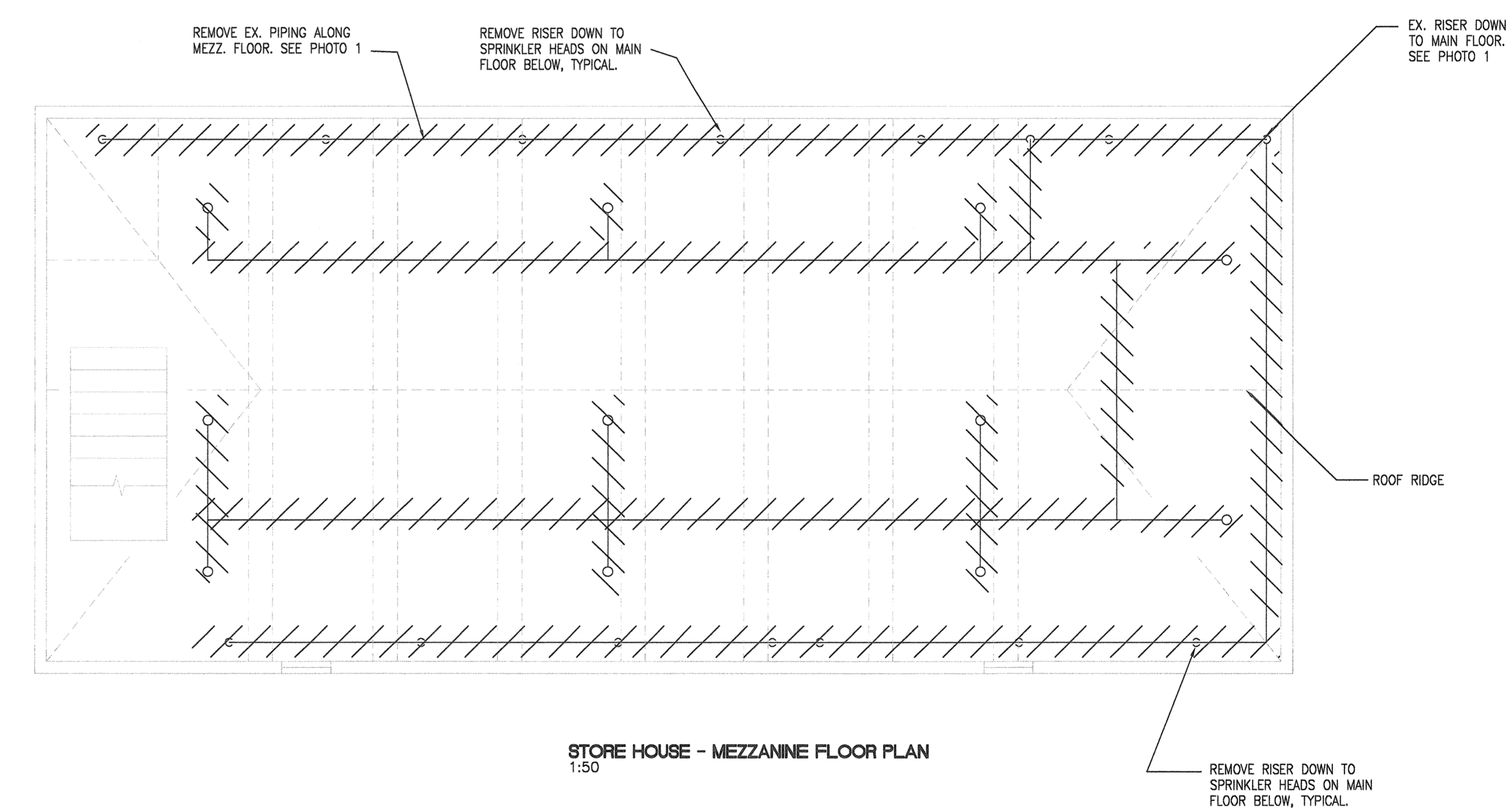
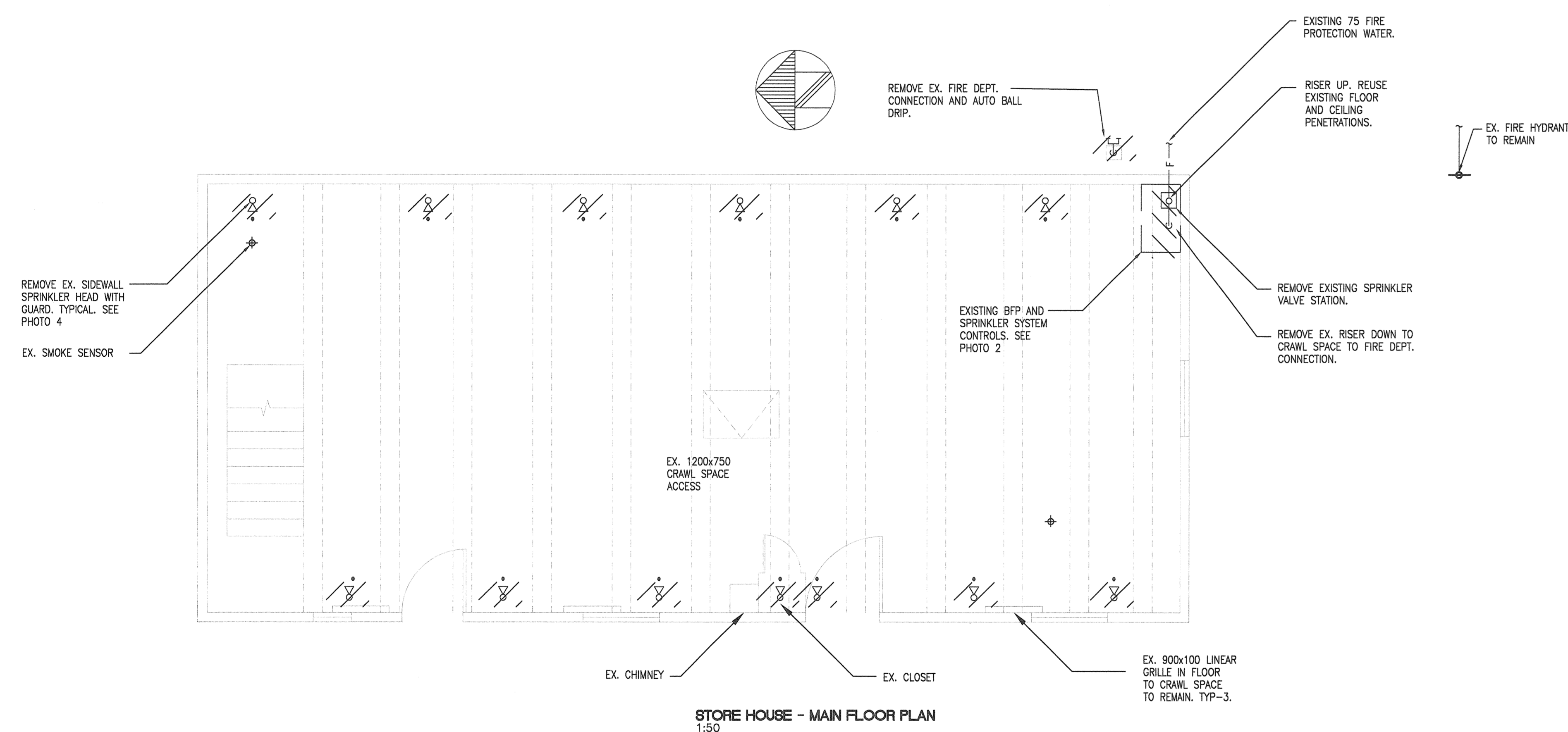


PHOTO 4



PHOTO 5



Revision/Revisions	Description/Description	Date/Date
5		
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Drawn by/Dessiné par: RWVC

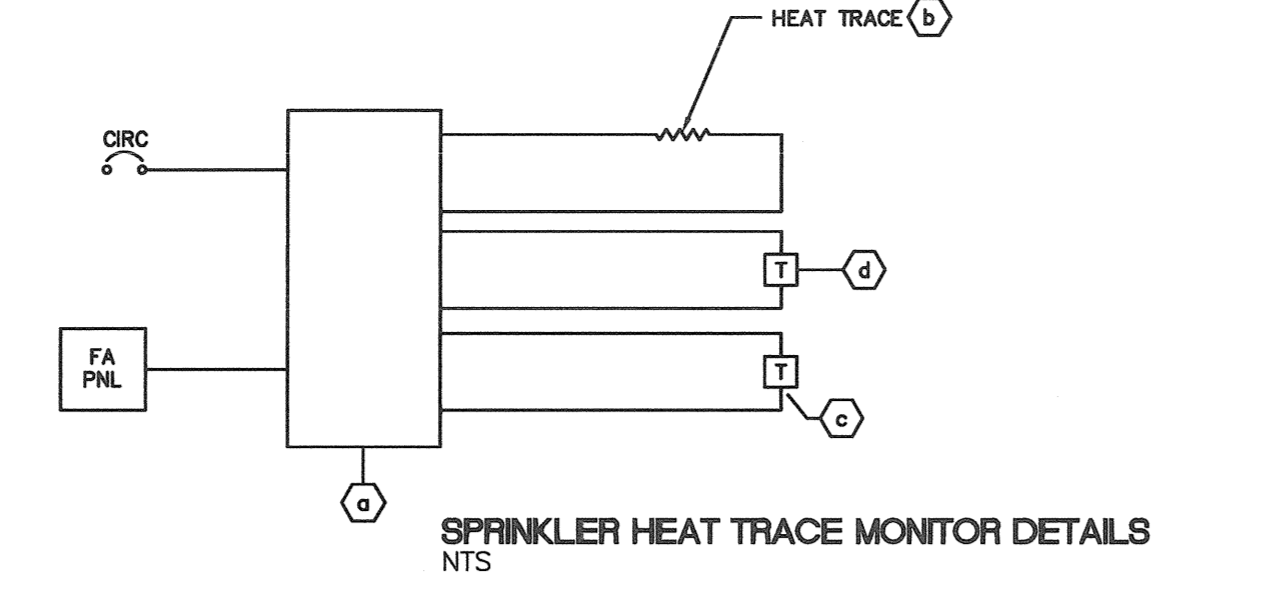
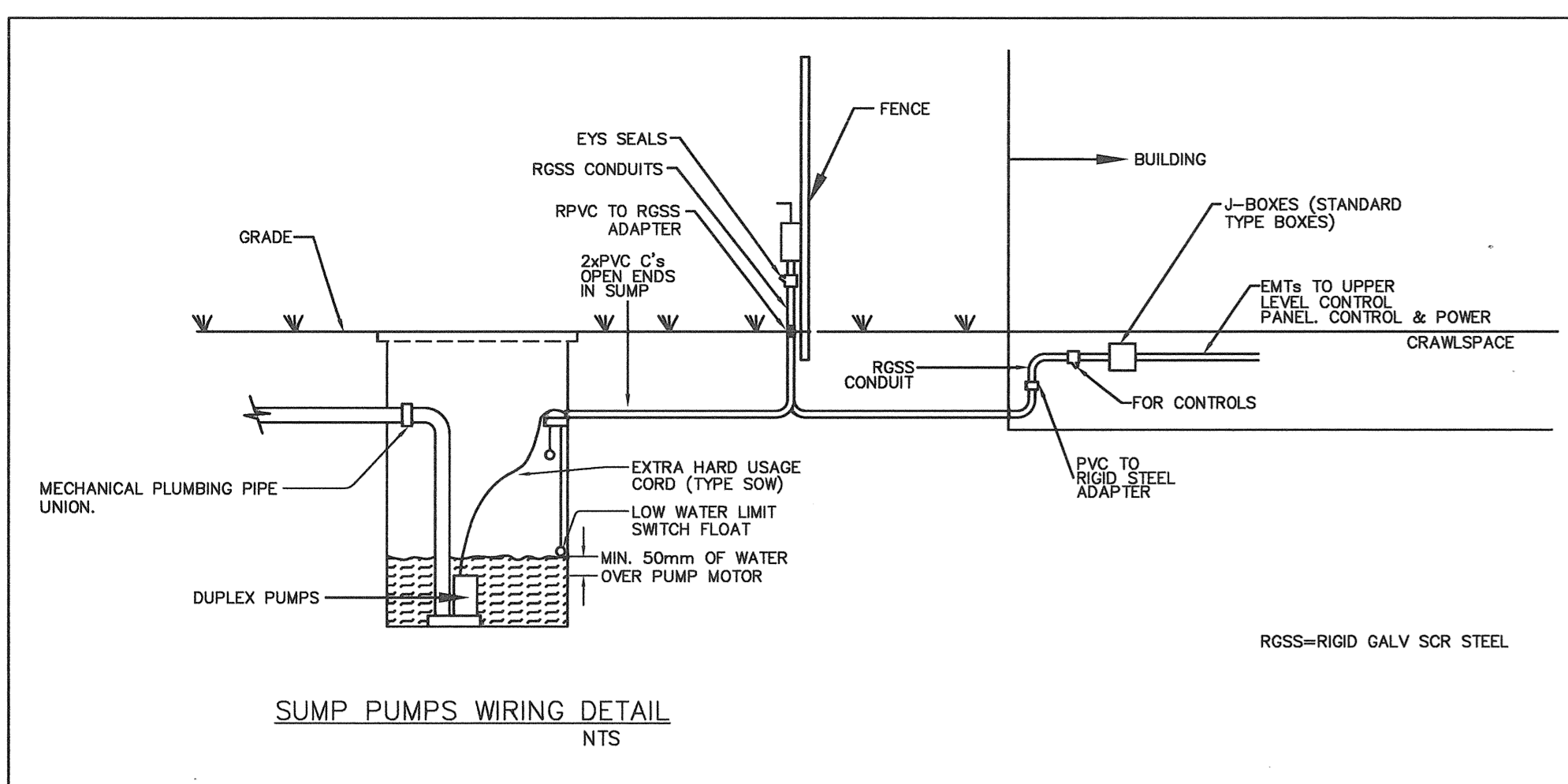
PWGSC Project Manager/Administrateur de Projets TPSGC: TOM DUNPHY

PWGSC, Regional Manager, Architectural and Engineering Services / Directeur régional, Services d'architecture et de génie, TPSGC: (Principal PAU)

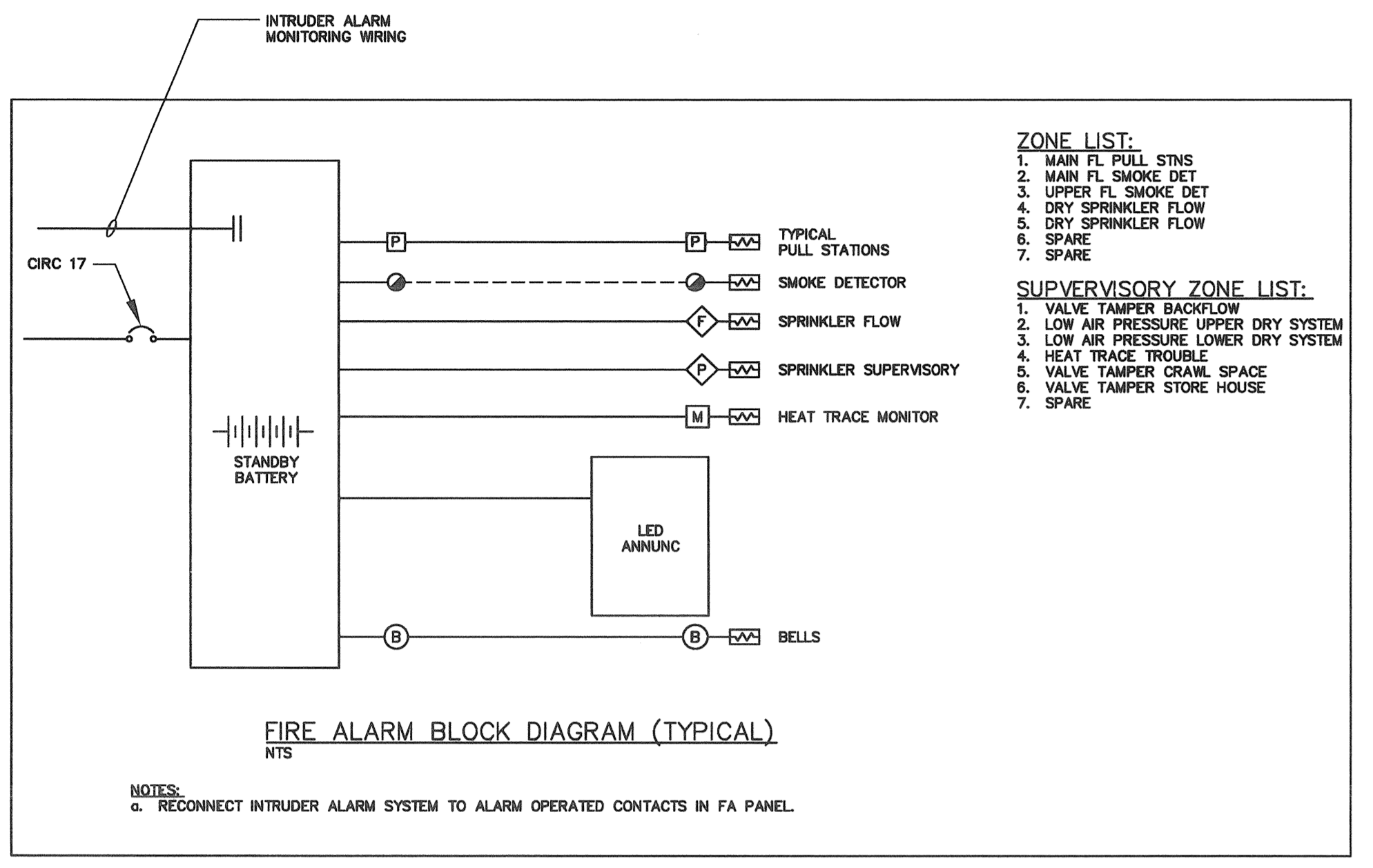
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FIRE PROTECTION DEMOLITION

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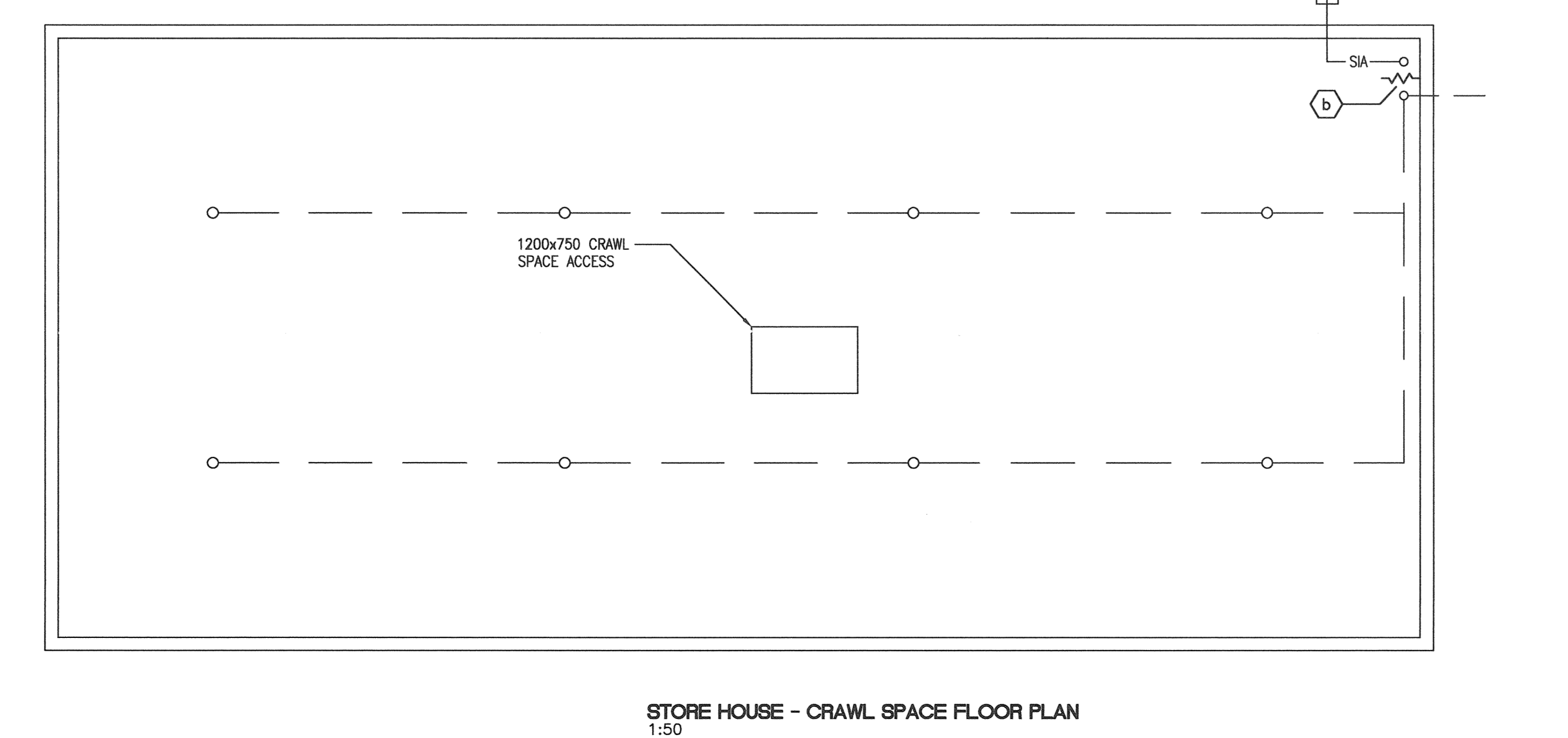
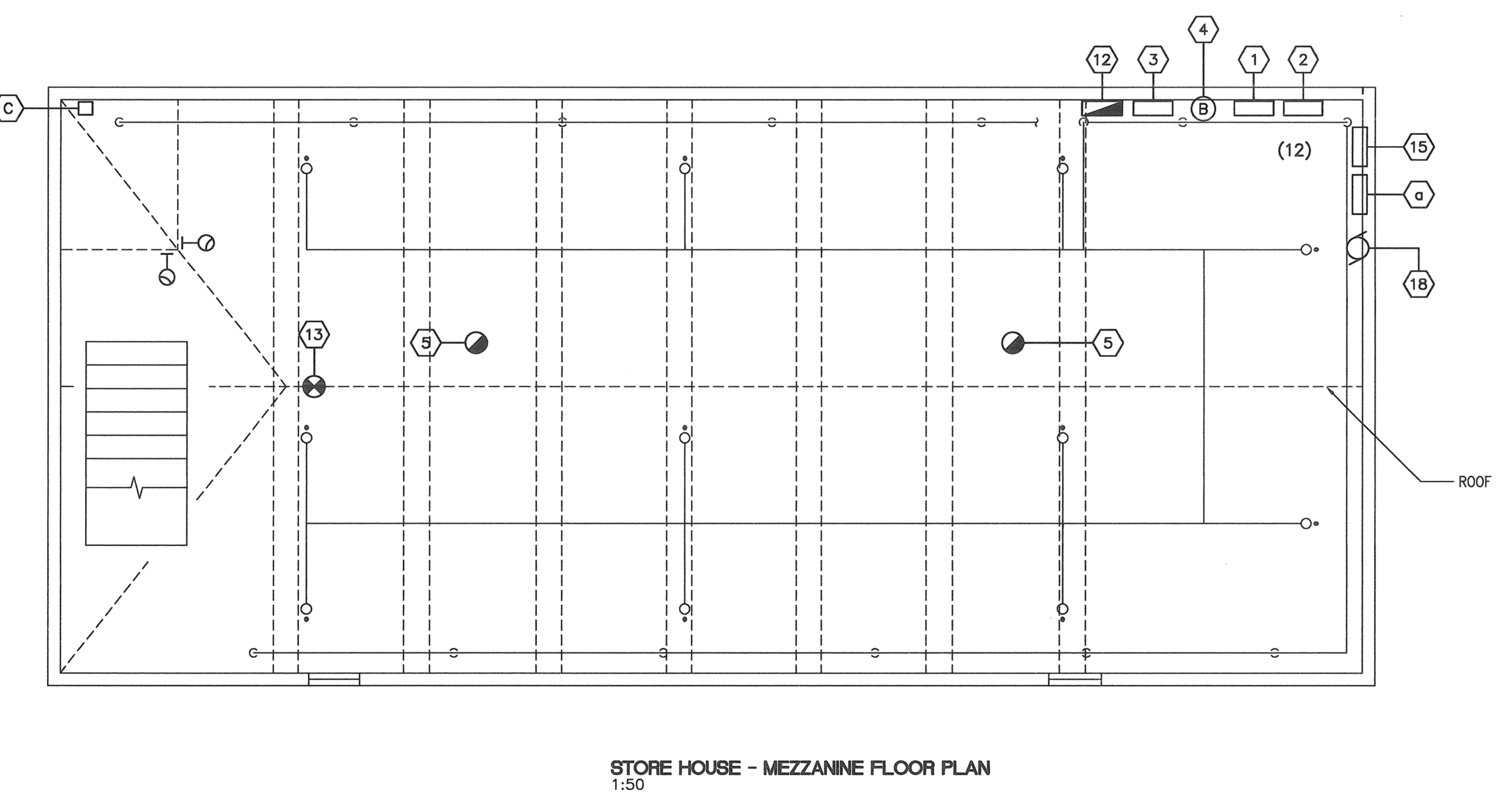
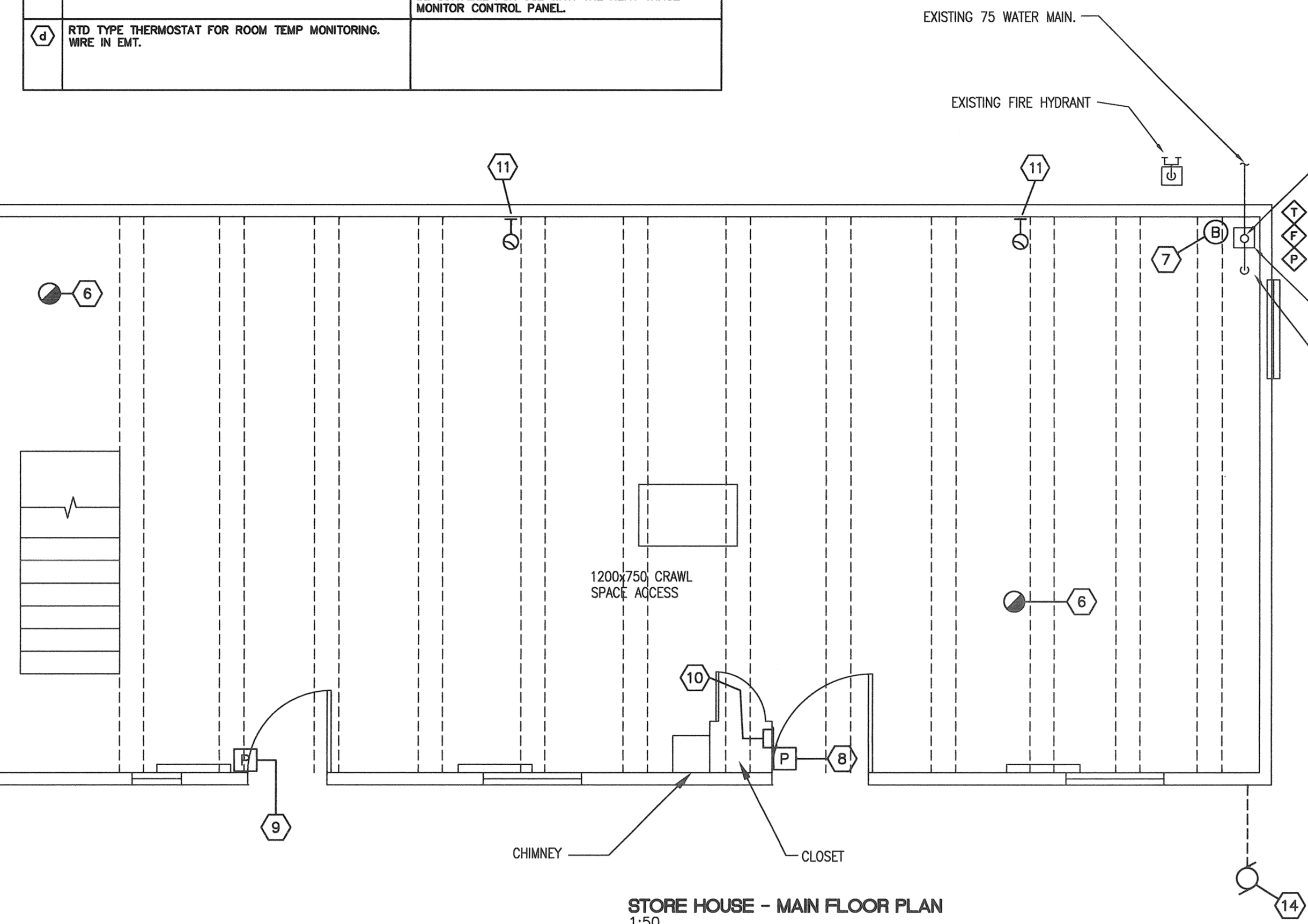


ITEM	DESCRIPTION	COMMENTS
(A)	SELF-CONTAINED HEAT TRACE MONITOR CONTROL PANEL LOCATED AT UPPER LEVEL. HEAT TRACE MONITOR PANEL SHALL BE SET UP BY AN INDEPENDENT COMPANY FAMILIAR WITH PROGRAMMING THE CONTROL PANEL. PROVIDE VERIFICATION CERTIFICATE PERTAINING TO THE HEAT TRACE MONITOR CONTROL PANEL.	STANDARD OF ACCEPTABILITY DISTANCE 0.910, ETI 0.573. MUST PROVIDE ALARM ON LOSS OF AC POWER, GROUND FAULT ON HEAT TRACE CABLE, LOW TEMPERATURE ON HEAT TRACE CABLE.
(B)	HEAT TRACE ON SPRINKLER RISER IN CRAWLSPACE. SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.	HEAT TRACE SHALL BE CONSTANT WATTAGE TYPE WITH RATING SUITABLE FOR THE APPLICATION. HEAT TRACE INSTALLED UNDER INSULATION FOLLOWING MANUFACTURERS RECOMMENDATIONS.
(C)	CAPILLARY TYPE RTD THERMOSTAT FOR HEAT TRACE LOCATED IN CRAWLSPACE ADJACENT TO HEAT TRACE.	THERMOSTAT TEMPERATURE RANGE TO BE IN MONITORING RANGE ABOVE AND BELOW 0°C TO SUIT APPLICATION FOR HEAT TRACE. ALSO BE SUITABLE FOR USE WITH THE HEAT TRACE MONITOR CONTROL PANEL.
(D)	RTD TYPE THERMOSTAT FOR ROOM TEMP MONITORING. WIRE IN DAT.	



- NOTES:**
- EXISTING FIRE ALARM PANEL SHALL HAVE COVER SPRAY PAINTED RED. EXISTING CUT-OUT IN FRONT COVER SHALL HAVE 18 GAUGE SHEETMETAL POP WRITER ON INSIDE TO CLOSE OPENING AND SHALL BE PAINTED RED. PAINTING SHALL BE DONE PROFESSIONALLY TO THE SATISFACTION OF THE CONSULTANT. PROVIDE RED LAMWOOD NAME PLATE WITH 8" HIGH WHITE UPPER CASE LETTERS TO SAY "FIRE ALARM-BOX".
 - REMOVE 120V WIRING FROM EXISTING FIRE ALARM PANEL. RE-WIRE TO NEW FIRE ALARM PANEL.
 - WHEN EXISTING FIRE ALARM PANEL IS DECOMMISSIONED, HAVE NEW PANEL READY TO ACCEPT EXISTING ZONES. WORK CONTINUOUSLY TO REMOVE GUTS IN THE EXISTING PANEL AND CONNECT TO THE NEW PANEL. HAVE VERIFICATION PERFORMED IMMEDIATELY FOLLOWING ENERGIZATION OF NEW PANEL. ALLOW FOR AT LEAST TWO VERIFICATIONS, ONE WHEN THE NEW PANEL IS INSTALLED AND ONE WHEN THE NEW SPRINKLER SYSTEM IS INSTALLED.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SPRINKLER CONTRACTOR REGARDING REMOVAL OF EXISTING SPRINKLER VALVES AND INSTALLATION OF NEW VALVES. IT MAY BE NECESSARY TO CONNECT THE NEW VALVES TO EXISTING ZONE WIRING IN WHICH CASE A THIRD VERIFICATION MAY BE REQUIRED. EXISTING ZONE CONNECTIVE REMAINING OF WHICH MAKE ALLOW FOR A 3RD VERIFICATION TRIP BY THE VERIFICATION COMPANY AS NECESSARY.
 - EXISTING SPRINKLER SYSTEM IN THE CRAWLSPACE HAS HEAT TRACE ON SPRINKLER SPINGS. REMOVE THE HEAT TRACE.
 - WIRE TO REMOTE BATTERY LIGHTING HEADS IN ARMORED CABLE ON FACE OF BEAM AT NOMINAL 1100mm AFF IN 2" DIA. WHERE WIRING IS INSTALLED OFF THE BEAM INSTALL TIGHT IN CORNERS OF ROOF AND BEAMS OR JOISTS.
 - PRIOR TO ROUGH-IN OF WIRING ALL ROUTES SHALL BE DISCUSSED AND AGREED WITH THE DEPARTMENTAL REPRESENTATIVE (D.R.). MAKE ALLOWANCE FOR QUADRIPOLES IN WIRING TO SUIT AS THE D.R. REQUIRES INCLUDING EXTRA WIRING LENGTHS AS NECESSARY TO SUIT THE APPLICATION, THAT OF A HERITAGE BUILDING. WIRING SHALL BE INSTALLED WITH CONSIDERATION OF MINIMUM EXPOSED WIRING ABLE TO BE VIEWED BY THE PUBLIC.
 - WIRING FOR SUMP PUMP TO BE IN RIGID PVC CONDUIT UNDERGROUND.
 - EXISTING SPRINKLER SYSTEM WILL BE REMOVED, COORDINATE WITH MECHANICAL CONTRACTOR REGARDING THIS WORK. DISCONNECT AND REMOVE WIRING TO SOURCE AS NECESSARY. LEAVE NO OBSOLETE WIRING IN PLACE.
 - WIRING INSIDE EXISTING FIRE ALARM CONTROL PANEL, RE-USED AS J-BOX SHALL BE INSTALLED FOLLOWING INSTRUMENTATION WIRING TECHNIQUES. THIS HEAT TRACE WIRING WILL BE REJECTED AND REDONE AT NO COST TO THE CONTRACT. PROVIDE CONDUIT LAYOUT PER SPEC SECTION 29 51 02.
 - UPDATE PANEL SCHEDULE NEATLY WITH ADDED CIRCUITS.
 - PRIOR TO ROUGH-IN ARRANGE FOR A MEETING ON SITE WITH D.R., CONSULTANT AND MECH CONTRACTOR TO AGREE LOCATIONS OF COMPONENTS IN THE CORNER OF THIS UPPER LEVEL. DO NOT ROUGH-IN UNTIL AGREEMENT ON LOCATIONS. CAREFULLY DETERMINE PROPOSED LAYOUTS PRIOR TO MEETING.

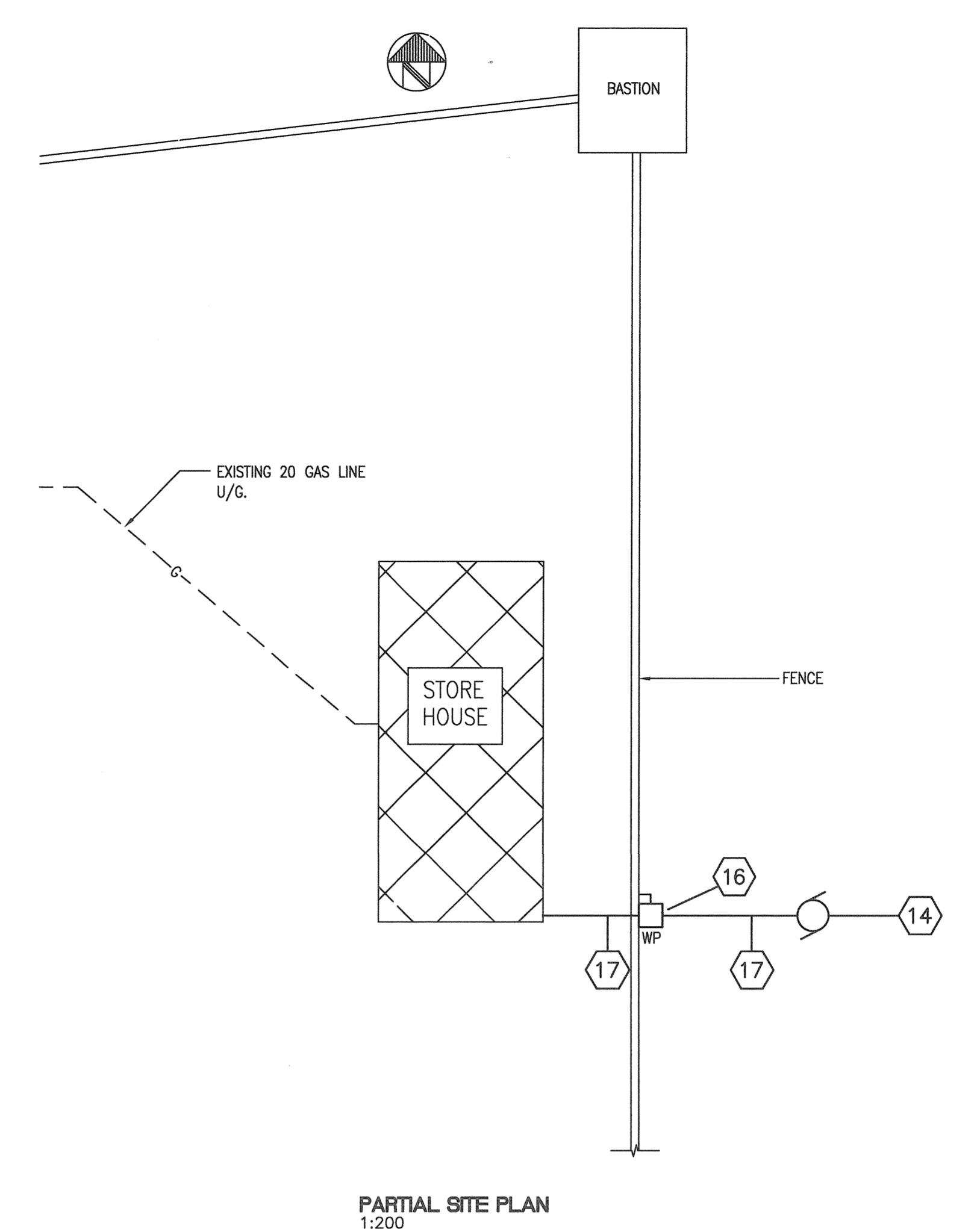
ITEM	DESCRIPTION	COMMENTS
(1)	REPLACE EXISTING WIRING 120V FIRE ALARM PANEL WITH NEW MINIMUM 12-ZONE PANEL.	NEW PANEL WILL NOT FIT IN AVAILABLE SPACE. REMOVE GUTS FROM EXISTING PANEL AND INSTALL RAIL MOUNTED TERMINAL STRIPS TO FACILITATE EXTENDING WIRING.
(11)	EXISTING 100A 120/208V SINGLE PHASE 3-WIRE PANELBOARD, SERVICING ED LOADCENTRE.	CIRCUIT 17 FEEDS FIRE ALARM PANEL.
(3)	PROPOSED LOCATION FOR NEW FIRE ALARM PANEL. EXTEND EXISTING WIRING TO NEW PANEL. LOCATION INCLUDING INTRUDER ALARM MONITORING WIRING.	IF PANEL SIZE IS TOO LARGE TO FIT IN LOCATION SHOWN, INSTALL ON SOUTH WALL AS APPROPRIATE.
(4)	EXISTING FIRE BELL TO BE REPLACED TO MATCH MANUFACTURER OF NEW FIRE ALARM PANEL.	RETAIN LOCATION AT LOW LEVEL BESIDE EXISTING FIRE ALARM PANEL.
(5)	EXISTING SMOKE DETECTORS ON SLOPING CEILING TO BE REPLACED TO MATCH MANUFACTURER OF NEW FIRE ALARM PANEL.	REGARDLESS OF CROSS LISTING CHANGE SMOKE DETECTOR TO PHOTOELECTRIC TYPE TO MATCH MANUFACTURER OF PANEL.
(6)	EXISTING SMOKE DETECTOR ON FLAT CEILING TO BE REPLACED TO SUIT MANUFACTURER OF NEW FIRE ALARM PANEL.	REGARDLESS OF CROSS LISTING CHANGE SMOKE DETECTOR TO PHOTOELECTRIC TYPE TO MATCH MANUFACTURER OF PANEL.
(7)	NEW FIRE BELL INSTALL IN CORNER AT LOCATION OF SPRINKLER VALVES.	WIRE DOWN IN CORNER OF ROOM IN ARMORED FIRE ALARM CABLE BESIDE EXISTING CABLES.
(8)	PROVIDE NEW FIRE ALARM PULL STATION. OUT BOX INTO WALL OF CLOSET. MOUNT PULL STATION FLUSH.	WIRE TO PULL STATION IN ARMORED FIRE ALARM CABLE DOWN IN SOUTH EAST CORNER OF MAIN FLOOR BESIDE EXISTING CABLES. WIRE DOWN INTO CRAWLSPACE. WIRE IN CRAWLSPACE AT UNDERSIDE OF FLOOR. DO NOT SPAN AT UNDERSIDE OF FLOOR JOISTS. RISE UP IN CLOSET.
(9)	PROVIDE NEW FIRE ALARM PULL STATION. WIRE UP FROM CRAWLSPACE IN ARMORED FIRE ALARM CABLE. PUSH FIRE ALARM CABLE INTO CLOSET AS NECESSARY TO BEST CONCEAL CABLE. TERMINATE IN SHALLOW WIRINGHOLD BOX.	ARRANGE AND PAY FOR PULL STATION OUTLET BOX AND COPEDED WIRING TO BE PAINTED TO MATCH WHITE COLOUR OF WALL. WIRE TO PULL STATION SIMILARLY TO SOUTH PULL STATION. THAT IS VIA SE CORNER AND CRAWLSPACE, THEN UP.
(10)	FLUSH MOUNTED LED ANNUNCIATOR IN WALL OF CLOSET. ARRANGE FRAMES THE OPENING ON THE INSIDE OF THE WHITE COLOUR OF THE BUILDING ANNUNCIATOR ZONE LINE LABELS ARE CARDBOARD SUPPLIED WITH GLASS (AND THEREFORE CAN BE READILY SLIPPED OUT). ANNUNCIATOR LABELS SHALL BE ACCESSIBLE FROM THE INSIDE OF THE ANNUNCIATOR.	CUT OPENING IN CLOSET WALL TO SUIT OUTLET BOX. FRAME THE OPENING ON THE INSIDE OF THE CLOSET WITH 1"x4" FIR SCREEN FIXED IN PLACE. WIRE TO ANNUNCIATOR FROM AS FOR PULL STATION AT CLOSET LOCATION.
(11)	PROVIDE SW 12V 100mA TYPE LED REMOTE EMERGENCY LIGHTING HEAD WITH WHITE TRIM AND OUTLET BOX PLATE.	WIRE DOWN FROM ABOVE. MOUNT OUTLET BOX TIGHT IN CORNER OF CEILING AND SEAL PAINT OUTLET BOX WHITE TO MATCH COLOUR OF PAINT OF BUILDING.
(12)	PROVIDE 12V, MIN 30W RATED EMERGENCY LIGHTING BATTERY PACK. WIRE ON LIGHTING CIRCUIT FOR BUILDING (CIRCUIT 20).	MOUNT AT LOW LEVEL BESIDE OTHER EQUIPMENT IN CORNER OF UPPER LEVEL.
(13)	EXISTING 12V DC SMOKE ALARM, CONNECTED TO INTRUDER ALARM SYSTEM. DEVICE MOUNTED ON SIDE OF BOTTOM CHORD OF JOIST.	REMOVE THE DEVICE. DISCONNECT FROM WIRING ON TOP OF STRUCTURE. INSTALL A BOX ON THE TOP OF THE STRUCTURE AND DEAD END EXISTING WIRING THERE IN.
(14)	DUPLEX SUMP PUMP IN IN-GROUND SUMP.	SEE WIRING DETAIL. WIRE UP TO CONTROL PANEL FROM SE CORNER OF CRAWLSPACE.
(15)	SUMP PUMP CONTROL PANEL.	PROVIDE 2P 40A BREAKER IN PANEL, AND WIRE TO CONTROL PANEL AND ON TO SUMP PUMPS. SEE DETAIL.
(16)	WEATHERPROOF DISCONNECT SWITCH FOR SUMP PUMP. MOUNT ON FENCE.	DISCONNECT SWITCH TO BE PADLOCKABLE IN THE 'ON' AND 'OFF' POSITION.
(17)	WIRING UNDERGROUND TO SUMP.	WIRING TO BE IN RIGID PVC CONDUIT BURIED 810mm ON 75mm SAND BED AND 75mm SAND COVER.
(18)	DRY SPRINKLER AIR COMPRESSOR.	PROVIDE SEP CRC FROM ADJACENT PANELBOARD. PROVIDE MAGNETIC STARTER WITH H/O/A. WIRE SPRINKLER AIR PRESSURE SWITCHES INTO AUTO POSITION OF STARTER.



ACCOMMODATION FOR GENERATOR CONNECTION

ITEM	DESCRIPTION	COMMENTS
(A)	CIRCUIT FOR HEAT TRACE, 120V, 15A.	2Ø 12AWG
(B)	15A 1-PHASE 3W MANUAL TRANSFER SWITCH (USE ONLY ONE POLE CONNECTION).	LOCATE IN SE CORNER OF MEZZANINE WITH OTHER COMPONENTS.
(C)	120V, 15A PLUG INSIDE 150mm x 150mm x 150mm BOX WITH SCREW-ON COVER	LOCATED AS SHOWN ON MEZZ. FLOOR PLAN.
(D)	LAMWOOD LABEL IN WHITE LETTERS ON RED TO SAY "GENERATOR CONNECTION RECEPTACLE".	UPPER CASE LETTERS MIN. 5mm HIGL MOUNT ON COVER OF BOX.
(E)	WIRING TO GEN CONNECTION PLUG.	2Ø 10AWG.

- LEGEND**
- (N) REFER TO GENERAL NOTES NUMBER (N) (TYPICAL)
 - EMERGENCY LIGHTING HEAD
 - EMERGENCY LIGHTING BATTERY UNIT
 - UNFUSED DISCONNECT SWITCH, WP=WEATHERPROOF
 - MOTOR, NUMERICAL=H.P. RATING, F=FRACATIONAL HORSEPOWER
 - T LINE VOLTAGE THERMOSTAT, LV=LOW VOLTAGE
 - SPRINKLER SYSTEM MONITORING DEVICE, F=FLOW SWITCH, T=TAMPER SWITCH, P=PRESSURE SWITCH
 - M HEAT TRACE MONITOR
 - FIRE ALARM PULL STATION
 - 10" FIRE BELL
 - SMOKE ALARM
 - SMOKE DETECTOR



Heat
MAR 13, 2017

L.P. GANDER & ASSOCIATES LTD.
CONSULTING ENGINEERS ELECTRICAL

SEAL:

Revision/Description	Date/Date
1 ISSUED FOR TENDER	15/03/2017

PARKS CANADA

Client/client

Project title/Titre du projet

**3 HISTORIC SITE
FIRE SPRINKLER REHABILITATION
FORT LANGLEY**

Consultant Approval Box Only

Designed by/Conçue par
LPG

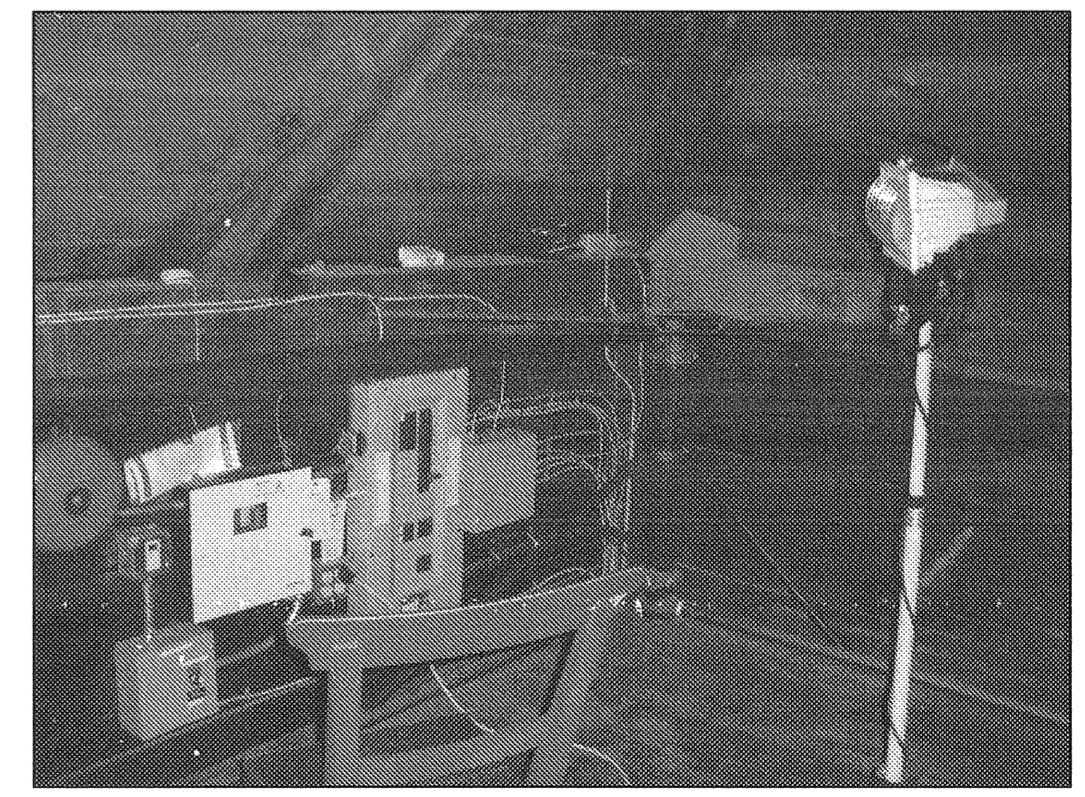
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PREETI PALU

Drawing title/Titre du dessin

STORE HOUSE



EXIST MEZZ. LEVEL SE CORNER