

PACIFIC COMMUNITY, PROPOSED EXTENSION TO EXISTING BUILDING - CRYO LAB FNTC ROAD 2, NARERE, NASINU

FIRE PROTECTION SERVICES

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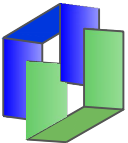
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	SHEET NUMBER:	F1
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TENDER ISSUE
NOT FOR CONSTRUCTION

GENERAL NOTES

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE TECHNICAL SPECIFICATIONS AND ALL OTHER RELEVANT DOCUMENTS.
2. ALL COMMISSIONING FOR FHR BY FIRE SERVICES CONTRACTOR.
3. ALL FIRE HOSE REELS SHALL BE SUPPLIED AND INSTALLED AS PER NZS4504 AND NFA REQUIREMENTS.
4. FIRE HOSE REEL TO BE 25mm ID, 25m LENGTH, HOSE PRESSURE RATED TO NZS4504.
5. CONTRACTOR TO ALLOW FOR HEAT TYPE DETECTORS IN ALL CONCEALED SPACES MORE THAN 800mm.
6. ALL FIRE FIGHTING EQUIPMENT SHALL BE SUPPLIED, INSTALLED AND COMMISSIONED AS PER NZS4503, NZS4504, NZS4506, NZS4507, NZS4508 AND NFA REQUIREMENTS. PROVIDE REMOTE SPACE INDICATORS IN CEILING SPACE BELOW CONCEALED SPACE DETECTORS.
7. ALL CABLING SHALL BE INSTALLED ON SUPPORTS SUCH AS CATENARY WIRES AND / OR CONDUITS AND INSTALLED AS PER NZS4512 AND AS/NZS3000 REGULATIONS. ALL EXPOSED CABLING SHALL BE ENCLOSED IN MD UPVC CONDUITS (MIN OF DN20) AND SECURED TO THE STRUCTURE USING PROPRIETARY PVC SADDLE CLIPS.
8. CONTRACTOR SHALL CONFIRM FINAL LOCATIONS OF ALL FIRE PROTECTION EQUIPMENT ON SITE PRIOR TO INSTALLATION. DRAWING SHOWS INDICATIVE AND PROPOSED LOCATIONS ONLY.
9. FIRE ALARM SYSTEM TO BE DONE BY FIRE CONTRACTOR.
10. ALL FHR NEED TO BE IN STAINLESS STEEL CABINETS & OVERSIZED TO ALLOW LOOSELY REELED HOSE TO FIT AND DOORS TO CLOSE.
11. PAINTING OF ALL EXPOSED PIPES TO BE DONE BY FIRE SERVICES CONTRACTOR. ALL FHR PIPES TO BE PAINTED RED.
12. FIRE SERVICES CONTRACTOR TO ALLOW FOR ALL RELEVANT COSTS ASSOCIATED WITH THE FIRE PROTECTION SERVICES WORKS. THIS INCLUDES COSTS OF ALL EQUIPMENT AND MATERIALS REQUIRED FOR THIS PROJECT. THE PRICE SHALL INCLUDE COSTS OF HIRING OF ANY PLANT AND EQUIPMENT SUCH AS CRANES, HOISTS, SCAFFOLDING, TRENCHING EQUIPMENT.
13. THE FIRE SERVICES CONTRACTOR SHALL ALLOW ALL COSTS ASSOCIATED WITH GETTING NATIONAL FIRE AUTHORITY OF FIJI (NFA) INSPECTIONS AND CERTIFICATIONS INCLUDING ON SITE INSPECTIONS AND APPROVAL OF DOCUMENTATION.
14. FIRE SERVICES CONTRACTOR TO PROVIDE FIRE ALARM SIGNAL CONTACTS, CABLES, SWITCHES, CONTACTORS, MONITORED POWER SUPPLIES, CONNECTION AND COMMISSIONING FROM FIP TO OTHER SERVICES SUCH AS MECHANICAL SERVICES, GAS SERVICES AND ELECTRICAL SERVICES TO ACTIVATE APPROPRIATE RESPONSE FROM THOSE SYSTEMS IN THE EVENT OF FIRE. ALLOW ALL RELEVANT COSTS FOR THESE WORKS.

FIRE PROTECTION SYMBOLS

	SMOKE DETECTOR
	HEAT DETECTOR
	FIRE HOSE REEL
	CEILING RECESSED SPEAKER
	4.5KG DRY POWDER EXTINGUISHER (MULTI PURPOSE)
	CONCEALED SPACE SMOKE DETECTOR
	CONCEALED SPACE HEAT DETECTOR
	MANUAL CALL POINT
	WALL MOUNTED STROBE
	FIRE ALARM INDICATOR
	FIRE INDICATOR PANEL

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
DCW	DOMESTIC COLD WATER
DN	NOMINAL DIAMETER
F/A	FROM ABOVE
F/B	FROM BELOW
FHR	FIRE HOSE REEL
FIP	FIRE INDICATOR PANEL
MCP	MANUAL CALL POINT
MD	MEDIUM DUTY
NFA	NATIONAL FIRE AUTHORITY
T/A	TO ABOVE
T/B	TO BELOW
WAF	WATER AUTHORITY OF FIJI

LINETYPES

FIRE HOSE REEL WATER SUPPLY	
FIRE ALARM CABLING	
FIRE SPEAKER CABLING	

1 GENERAL NOTES, ABBREVIATIONS AND LINE TYPES
 F2 SCALE: N/A

TENDER ISSUE

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T1	180123	TENDER ISSUE

PROJECT TITLE: **PACIFIC COMMUNITY PROPOSED EXTENSION TO EXISTING BUILDING-CRYO LAB FNTC ROAD 2, NASINU.**

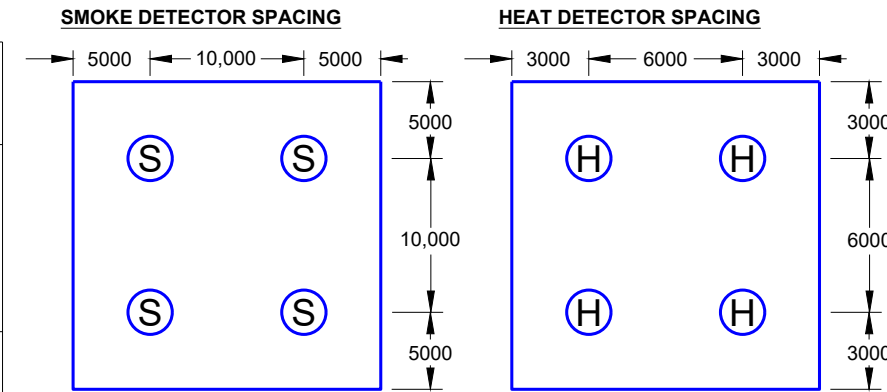
DRAWING TITLE: **GENERAL NOTES, ABBREVIATIONS AND LINE TYPES**

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PROJECT NO:	3885
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FIRE EQUIPMENT SCHEDULES

SYMBOL	DESCRIPTION	FEATURES	OPERATING VOLTAGE	SOUND PRESSURE LEVEL	PRODUCT / BRAND
M	MANUAL CALL POINT	-BUILT IN SHORT CIRCUIT ISOLATOR WITH BYPASS JUMPER -LOW PROFILE DESIGN -ELECTRONIC COMPONENTS PROTECTED FROM DAMAGE -FULLY COMPLIES WITH NZS 4512:2003 -ADDRESSABLE TYPE	15 TO 32 Vdc	N/A	TYCO JOHNSON CONTROLS / AMPAC - APOLLO OR OTHER APPROVED EQUIVALENT
S	SMOKE DETECTOR	-SLEEK,LOW PROFILE DESIGN -ADDRESSABLE COMMUNICATIONS -VARIABLE SENSITIVITY TO SMOKE -LOW STANDBY CURRENT -DUAL RED LED FOR 360° VISIBILITY	15 TO 32 Vdc	N/A	TYCO JOHNSON CONTROLS / AMPAC - APOLLO OR OTHER APPROVED EQUIVALENT
H	HEAT DETECTOR	-SLEEK,LOW PROFILE DESIGN -ADDRESSABLE COMMUNICATION -CONFIGURABLE SENSITIVITY TO HEAT -LOW STANDBY CURRENT -DUAL RED LEDs FOR 360° VISIBILITY	15 TO 32 Vdc	N/A	TYCO JOHNSON CONTROLS / AMPAC - APOLLO OR OTHER APPROVED EQUIVALENT
🔊	CEILING SPEAKER	-QUICK FIT CEILING MOUNTING SPEAKER -BUILT IN 100Vrms TRANSFORMER WITH PROTECTIVE COVER -IN-CEILING TYPE LOUDSPEAKER -ALL METAL COMPONENTS INCLUDE GRIKLE & BATTLE -POWDER COATED IN RAL9016 WHITE. - 1 WATT RATED WITH TAPS AT 0.3, 05 AND 1 WATT -COMPLETE WITH DECOUPLING CAPACITOR	100VOLTS	88 dB	TYCO JOHNSON CONTROLS / AMPAC - APOLLO OR OTHER APPROVED EQUIVALENT
🔊	STROBE	- RED LENS - HIGH INTENSITY OUTPUT - POLYCARBONATE / ACRYLIC CONSTRUCTION	30Vdc	N/A	TYCO JOHNSON CONTROLS / AMPAC - APOLLO OR OTHER APPROVED EQUIVALENT



1. ALL DETECTORS SUPPLIED AND INSTALLED ARE TO BE ANALOG / ADDRESSABLE TYPE
2. THE FIRE ALARM SYSTEM SHALL BE DESIGNED, INSTALLED, TESTED AND CERTIFIED TO COMPLY WITH NZS 4512:2010
3. THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO THE FIJI NATIONAL FIRE AUTHORITY (NFA) CENTRAL COMMUNICATIONS PLATFORM USING THE NFA SUPPLIED ASE (ALARM SIGNALING UNIT). ALLOW ALL RELEVANT COSTS INCLUDING EQUIPMENT SUPPLY, ANTENNA, CABLING, POWER SUPPLIES AND RELEVANT NFA CHARGES.
4. THE FIRE ALARM SYSTEM SHALL ALSO PROVIDE VOLTAGE-FREE OPTO-ISOLATED RELAY CONTACTS TO SIGNAL THE FOLLOWING 3 STATUS SEPARATELY: NORMAL / DEFECT / FIRE
5. ALL COMPONENTS OF THE FIRE ALARM SYSTEMS SHALL BE PROVIDED BY A SPECIALIST MANUFACTURER WITH NON-EXCLUSIVE DEALERSHIP / REPRESENTATION IN FIJI. PROPRIETARY SYSTEMS WITH LIMITED COMMERCIAL AND TECHNICAL ACCESS TO LESS THAN THREE INDEPENDENT VENDORS ARE NOT ACCEPTABLE.

FIRE EXTINGUISHER SCHEDULES

SYMBOL	DESCRIPTION	CAPACITY (KG)	EFFECTIVE RANGE (MTRS)	DIMENSION (H x W x D) (mm)	PRODUCT / BRAND	IMAGE
GA	DRY POWDER ABE FIRE EXTINGUISHER	2.70	4.00	405 x 173 x 110	PERTRONIC	

1
F3

PROPOSED EQUIPMENT SCHEDULE
SCALE: N/A

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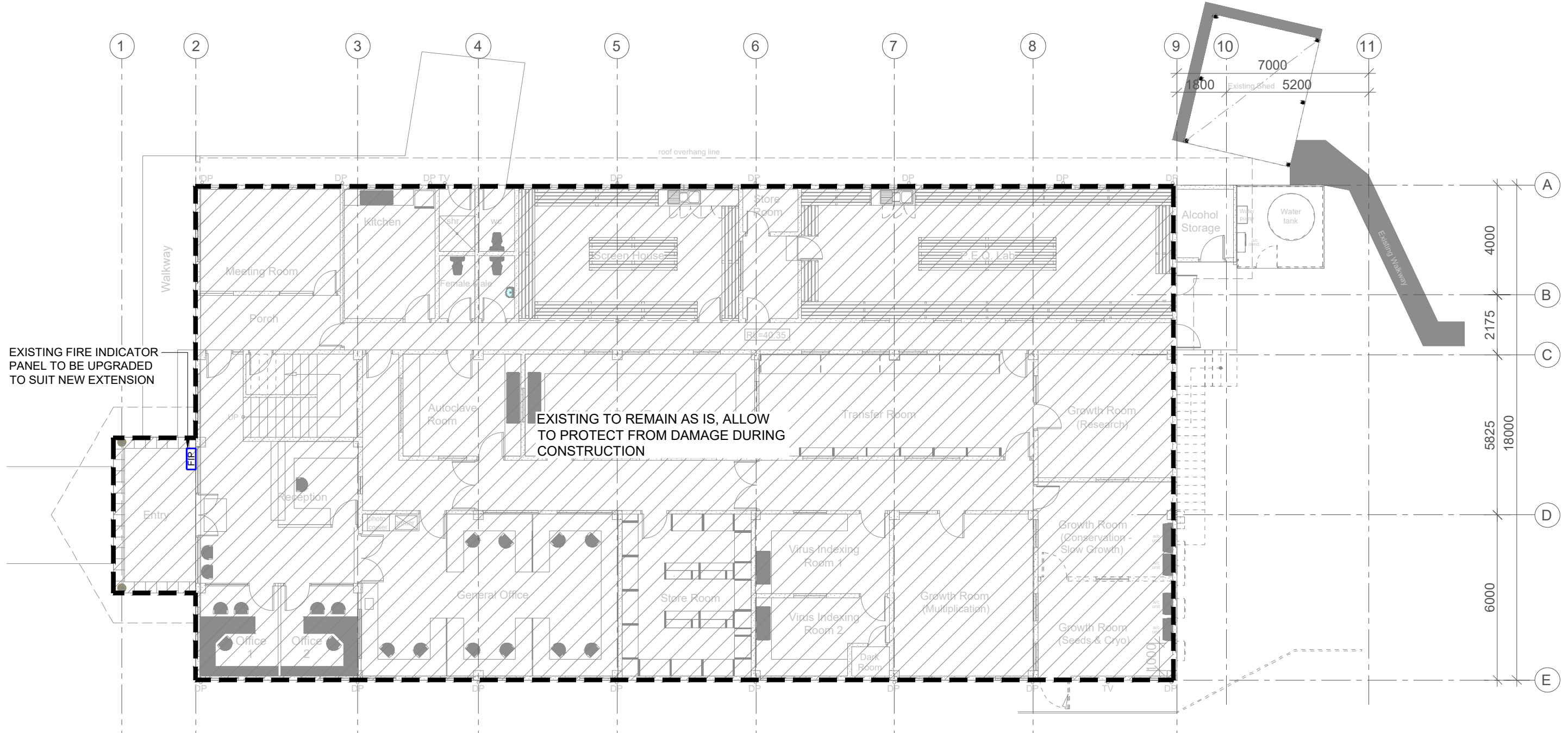
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PROJECT TITLE:
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FNTC ROAD 2, NASINU.**

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1 EXISTING SITE LAYOUT - FIRE PROTECTION
 F100 SCALE: 1:150

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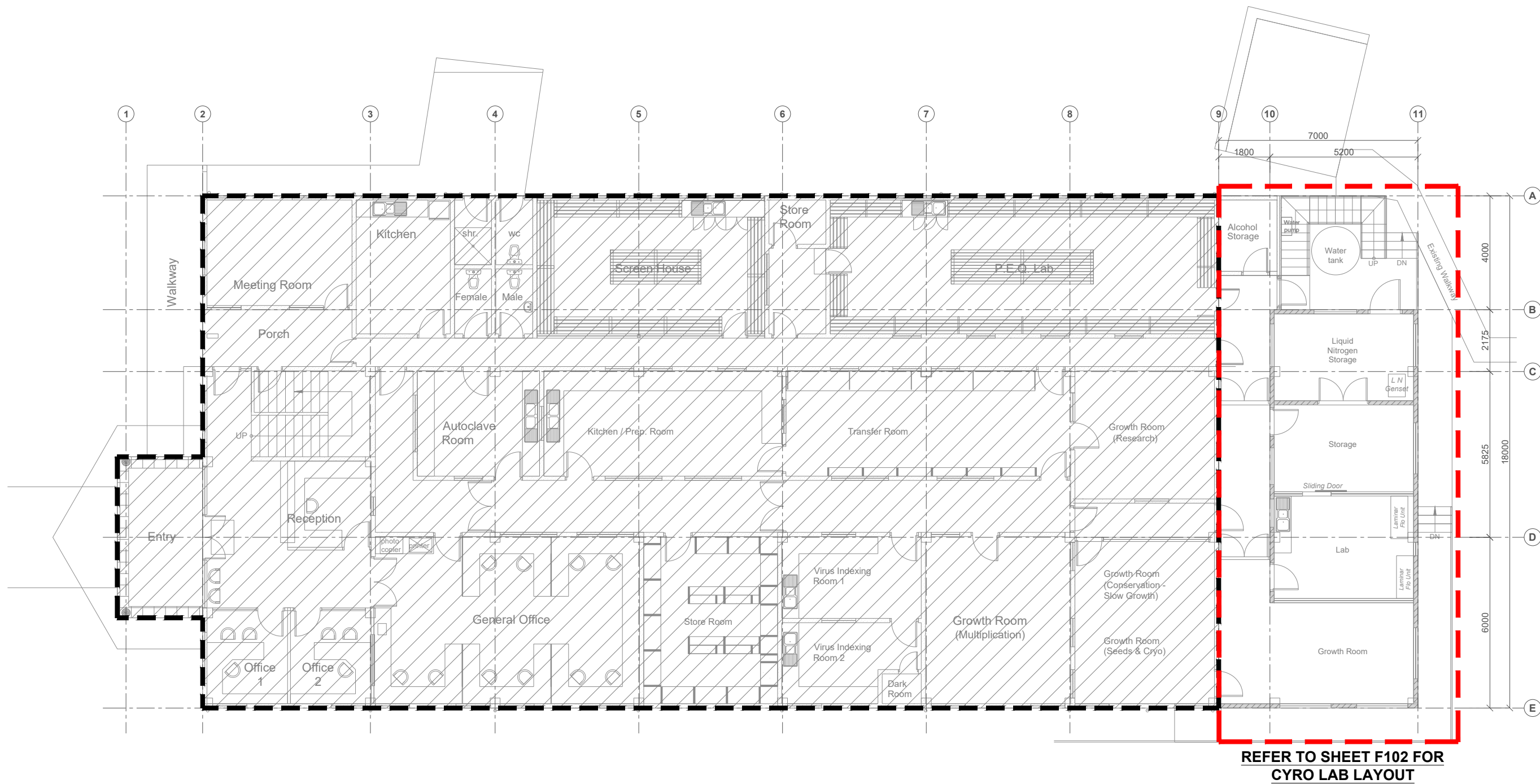
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1 PROPOSED SITE LAYOUT - FIRE PROTECTION
 F101 SCALE: 1:150

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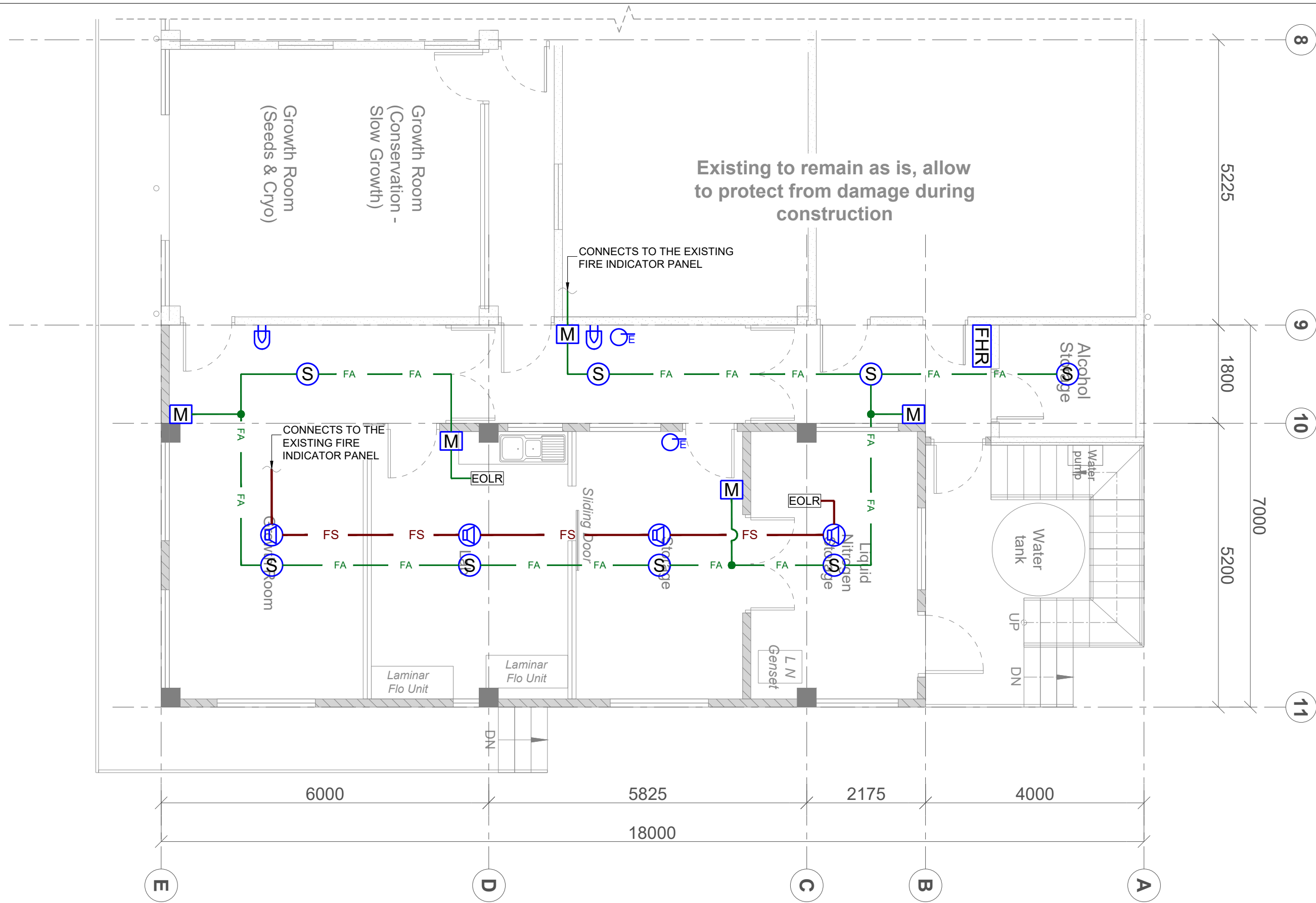
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DRAWING TITLE: **PROPOSED SITE LAYOUT - FIRE PROTECTION**

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1 PROPOSED FIRE PROTECTION LAYOUT
 F102 SCALE: 1:70

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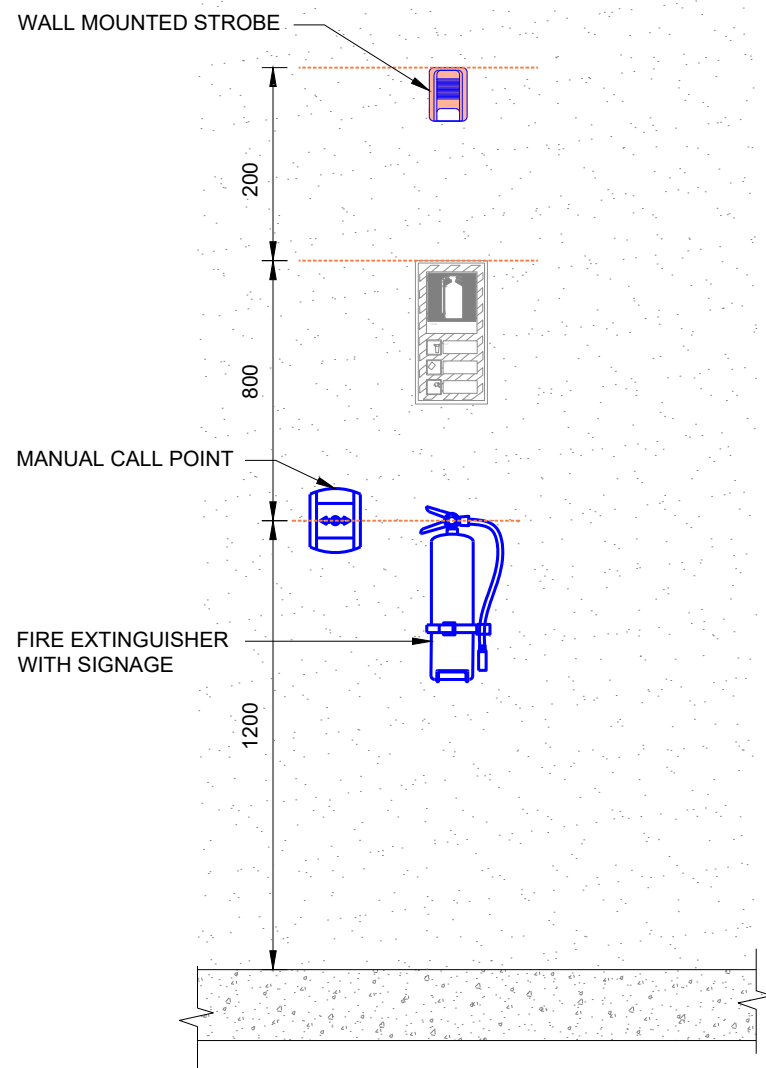
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DRAWING TITLE: **PROPOSED FIRE PROTECTION LAYOUT**

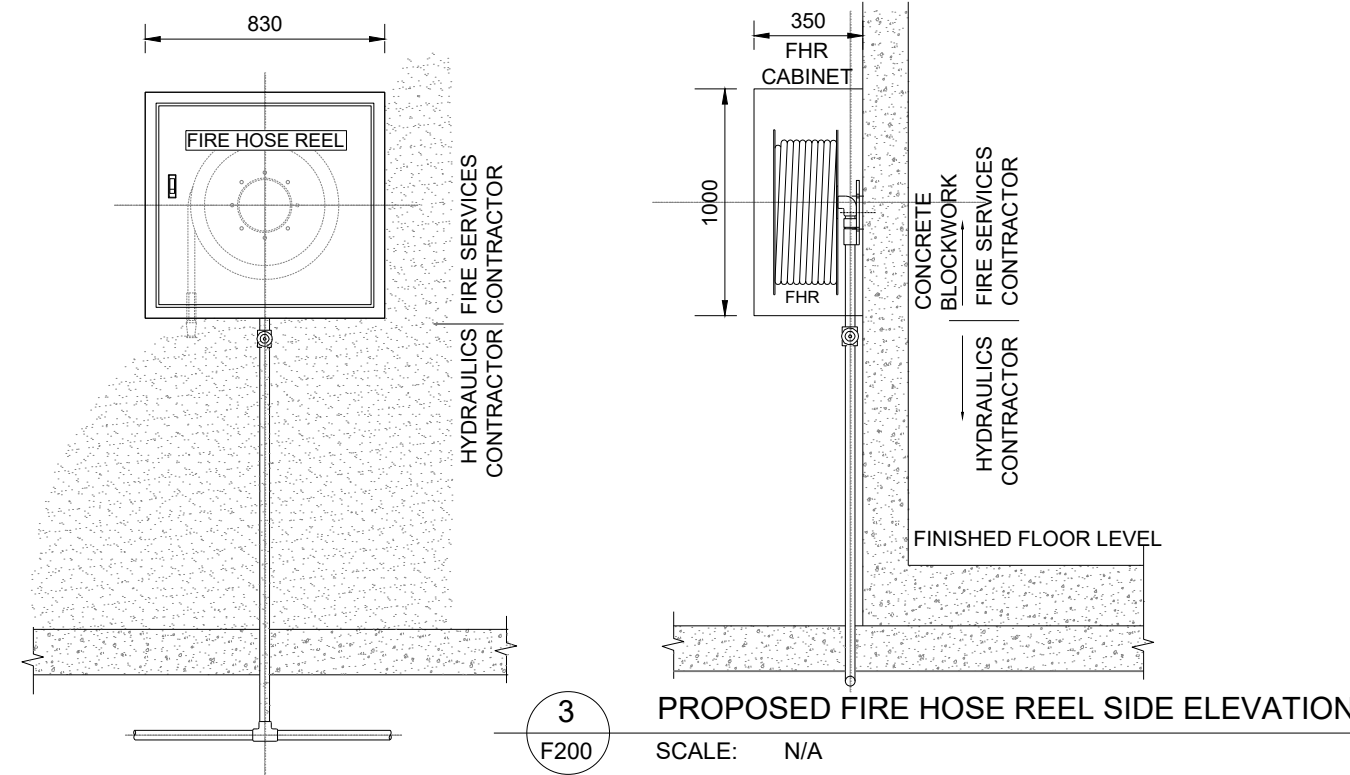
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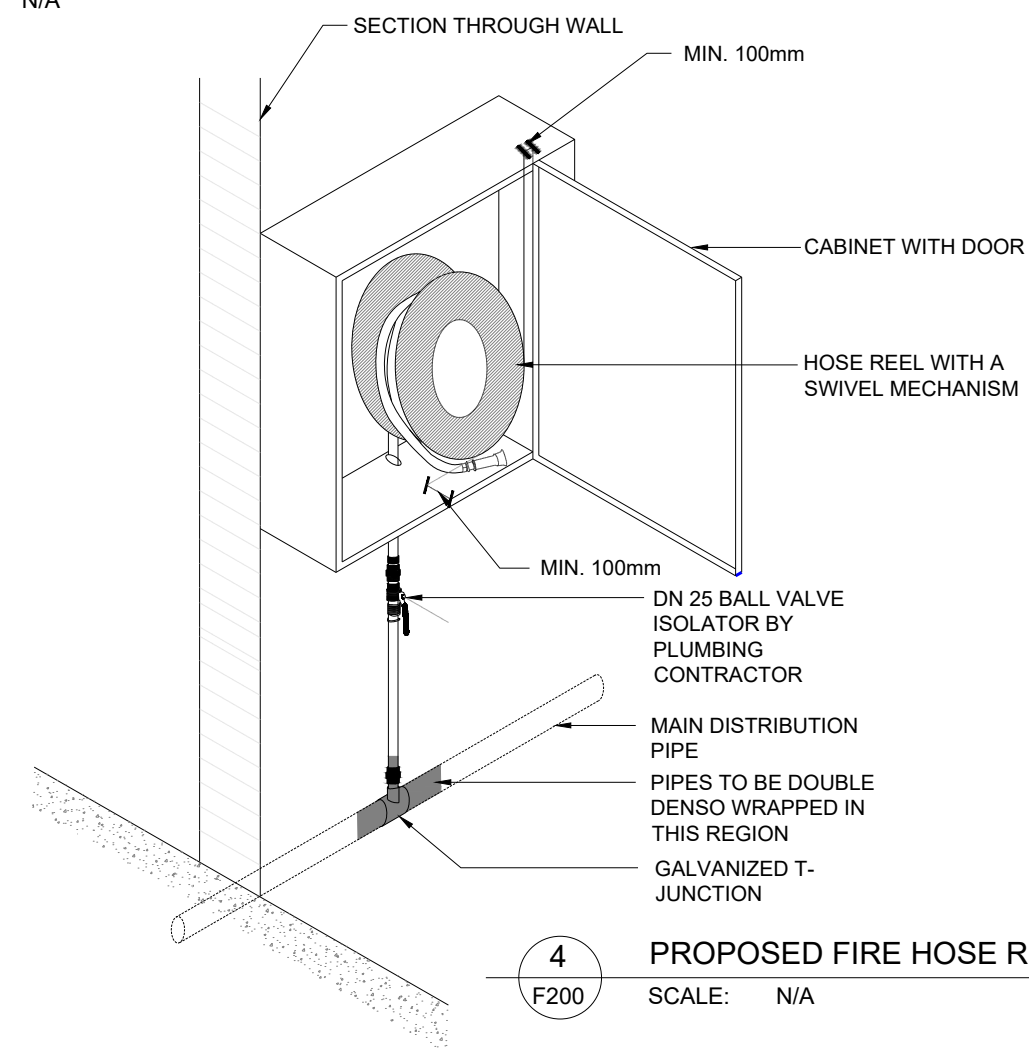


1 PROPOSED FIRE EQUIPMENT HEIGHTS DETAIL
F200 SCALE: N/A



2 PROPOSED FIRE HOSE REEL FRONT ELEVATION
F200 SCALE: N/A

3 PROPOSED FIRE HOSE REEL SIDE ELEVATION
F200 SCALE: N/A



4 PROPOSED FIRE HOSE REEL DETAIL
F200 SCALE: N/A

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PROJECT TITLE: **PACIFIC COMMUNITY PROPOSED EXTENSION TO EXISTING BUILDING-CRYO LAB FNTC ROAD 2, NASINU.**

DRAWING TITLE: **PROPOSED FIRE PROTECTION DETAILS**

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