

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

ELECTRICAL SERVICES

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CLIENT:



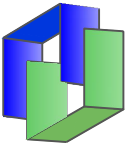
ARCHITECT:



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	SHEET NUMBER:	E1
	ISSUED FOR:	TENDER ISSUE
	ISSUED DATE:	2023/01/18
	QA CHECKED DATE:	2023/01/18
	APPROVED BY:	SATISH PATEL

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TENDER ISSUE
NOT FOR CONSTRUCTION

REF	GENERIC DESCRIPTION	INSTALLATION	WHERE USED	DIMENSIONS mm	LIGHT SOURCE	WATTAGE	SYSTEM LUMENS	COLOUR TEMPERATURE	HOUSING	MINIMUM IP RATING	MINIMUM IK RATING	COMPLIANT FITTING	WARRANTY	SUPPLIER	PICTURE
LF1	Recessed Down Light	Recessed	Ground Floor	114L X 114W X 63H	LED	18	2000 lm	4000K	Metal-Plastic, Lens Cover: Optical PC	IP54	IK54	Smart Bright LED Downlight DN029B G2 LED20/CCT PSR-E D200 CAU	N/A	PHILIPS	
LF2	Flood Light	mounted at 4.8 meter height	Outside	336L x 482W x 37.7H	LED	200	24000lm	6500K	Aluminium Die-casting, Lens Cover: Optical PC	IP65	IK08	Smart bright floodlight BVP151 LED240/CW PSU 200W SWB G2 CN	N/A	PHILIPS	
E1	Maintained LED Emergency Exit Light	Surface Mount Above Exit Doors	Exit Doors	355Lmm x 215Wmm x 80Hmm	LED	2.7 Watts (Standby), 5.1 Watts (Max)	NA	NA	ABS body and diffuser with polycarbonate clear tamper proof cover	IP20	NA	Phillips Maintained Exit Light With Decal Surface Mount	N/A	PHILIPS	
E2	Emergency Luminaires	Surface Mount	Ground floor	620L x 33W x 45H x 80D	LED	4.0 Watts (Standby), 5.6 Watts (Max)	180Lm	5000K	ABS body and diffuser with polycarbonate clear tamper proof cover	IP20	IK2	Philips Emergency downlight EM120B LED2S EL3 WH	3 YEARS	PHILIPS	

1 PROPOSED LIGHT FITTING SCHEDULE
E3 SCALE: N/A

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T1	180123	TENDER ISSUE
P1	071222	PRELIMINARY ISSUE
NO.	DATE:	REVISION:

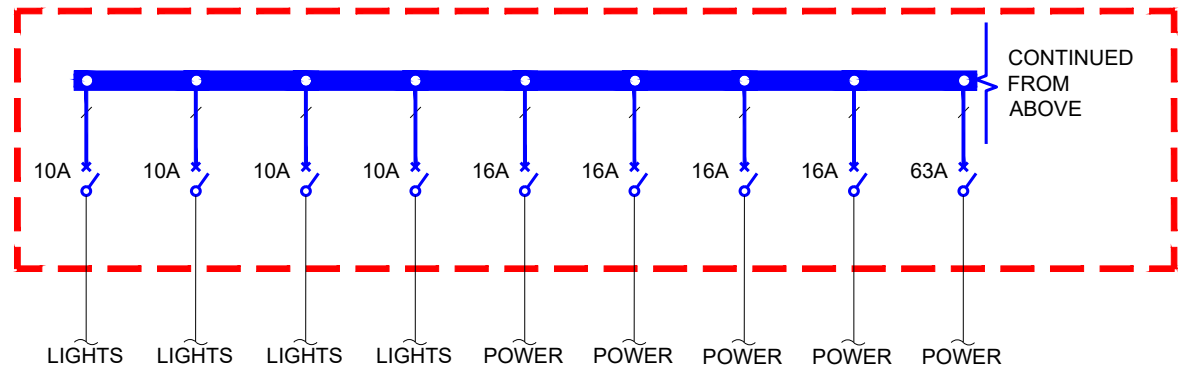
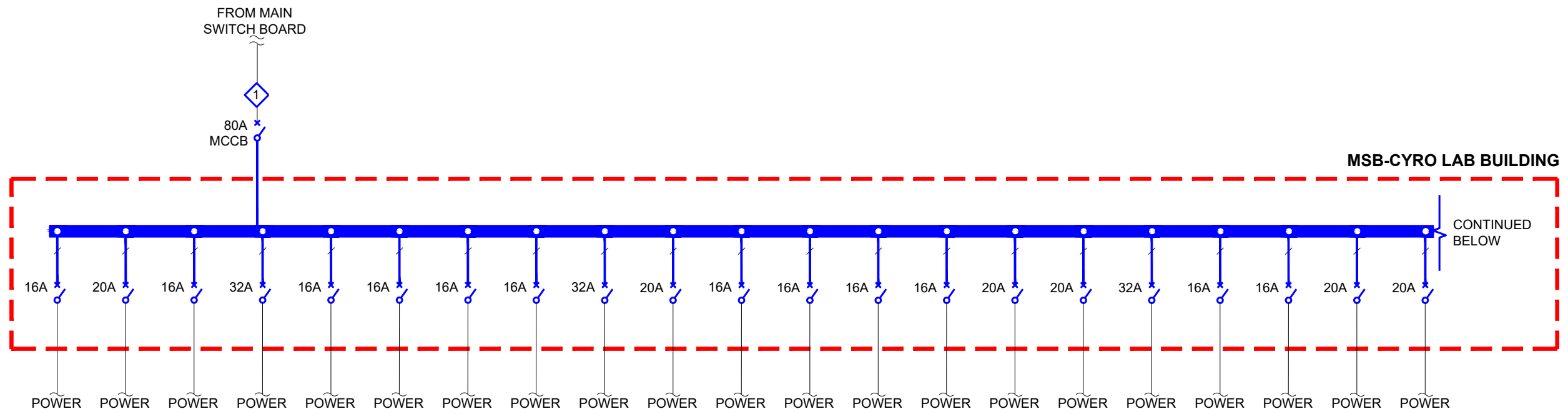
PROJECT TITLE: **PACIFIC COMMUNITY PROPOSED EXTENSION TO EXISTING BUILDING-CRYO LAB FNTC ROAD 2, NASINU.**

DRAWING TITLE: **PROPOSED LIGHT FITTING SCHEDULE**

DESIGN:	SP
DRAWN:	NP/ST
QA:	AA/NP
SCALE:	N/A
DATE:	180123
STATUS:	TENDER ISSUE

PROJECT NO:	3885
AUTOCAD FILE NO:	3885-E3-T1
SHEET NO:	E3
SIZE:	A3
REVISION:	T1

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- NOTE:**
1. THE ELECTRICAL CONTRACTOR SHALL TRACE EACH CIRCUIT AND IDENTIFY THE LOAD CONNECTION AND FITTING OR EQUIPMENT NUMBER. THE ELECTRICAL CONTRACTOR SHALL AFFIX COMPUTER PRINTED LABELS ADJACENT TO THE CORRESPONDING CIRCUIT BREAKERS ON THE SWITCHBOARD
 2. EXISTING SUB-MAINS CABLE FROM REMOTE SITE MAIN SWITCHBOARD THIS CABLE SHALL BE UPGRADED / REPLACED BY OTHERS - SEPARATE SCOPE TO THIS PROJECT

1 EXISTING ELECTRICAL SCHEMATIC
E4 SCALE: N/A

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P1	071222	PRELIMINARY ISSUE
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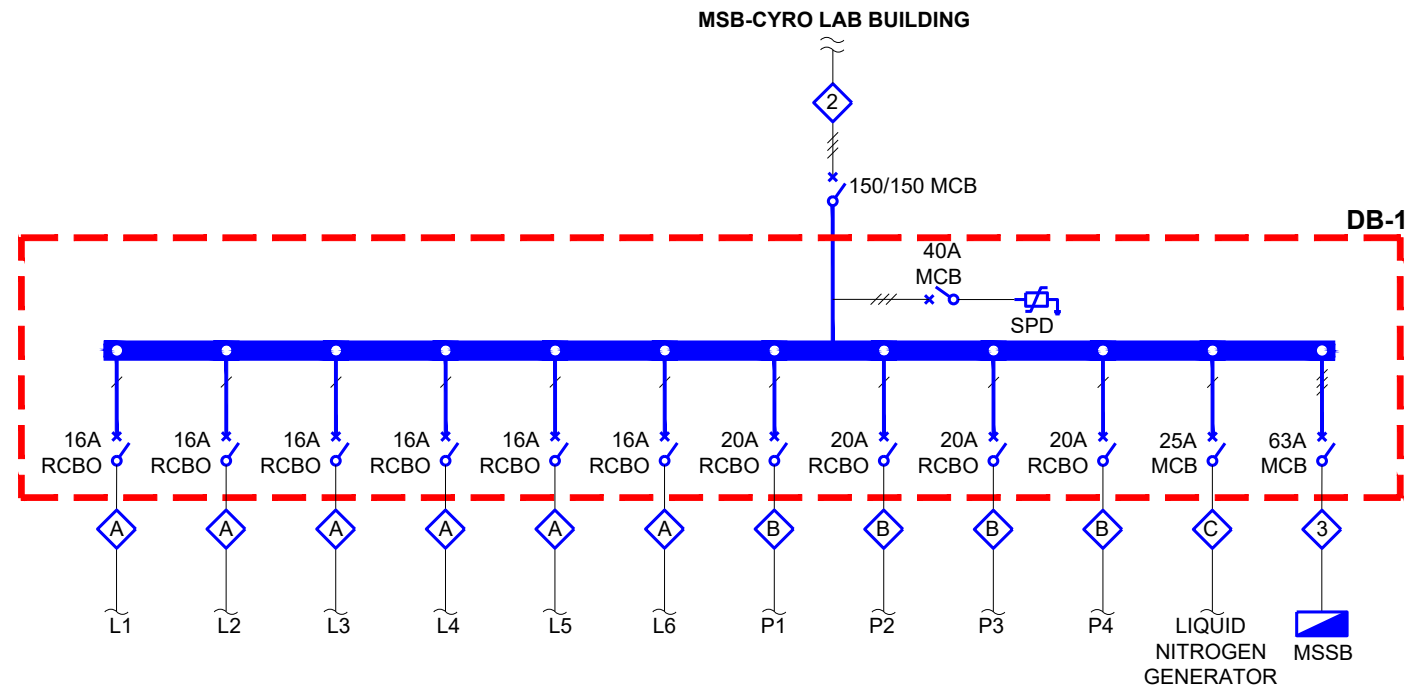
PROJECT TITLE: **PACIFIC COMMUNITY PROPOSED EXTENSION TO EXISTING BUILDING-CRYO LAB FNTC ROAD 2, NASINU.**

DRAWING TITLE: **EXISTING ELECTRICAL SCHEMATIC**

DESIGN:	SP
DRAWN:	NP/ST
QA:	AA/NP
SCALE:	N/A
DATE:	180123
STATUS:	TENDER ISSUE

PROJECT NO:	3885				
AUTOCAD FILE NO:	3885-E4-T1				
SHEET NO:	E4	SIZE:	A3	REVISION:	T1

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L1	7 Lighting Points
L2	9 Lighting Points
L3	7 Lighting Points
L4	7 Lighting Points
L5	7 Lighting Points
L6	6 Lighting Points
P1	Growth Room Points (GPO)
P2	Lab Room Points (GPO)
P3	Storage Room Points (GPO)
P4	Liquid Nitrogen Storage Room Points (GPO)

NOTE:
1. DB-1 IS ONLY FOR THE PROPOSED NEW CYRO LAB

1 PROPOSED ELECTRICAL SCHEMATIC (DB-1)
E5 SCALE: N/A

REF	FROM	TO	CABLE SIZE	INSTALLATION
1	EXISTING MSB	MSB-CYRO LAB BUILDING	1 X 4C + E 10mm ² Cu/PVC/PVC	UNDERGROUND
2	MSB-CYRO LAB BUILDING	DB-1	1 X 4C + E 25mm ² Cu/PVC/PVC	UNDERGROUND
3	DB-1	MSSB	1 X 4C + E 10mm ² Cu/PVC/PVC	ELECTRICAL CONDUIT / CATENARIES
A	DB-1	LIGHTS	1.5mm 2C + E Cu TPS	ELECTRICAL CONDUIT / CATENARIES
B	DB-1	POWER POINTS	2C + E 2.5mm ² Cu TPS	ELECTRICAL CONDUIT / CATENARIES
C	DB-1	LN GENSET	4C + E 10mm ² Cu/PVC/PVC	ELECTRICAL CONDUIT / CATENARIES

2 PROPOSED CABLE SCHEDULE
E5 SCALE: N/A

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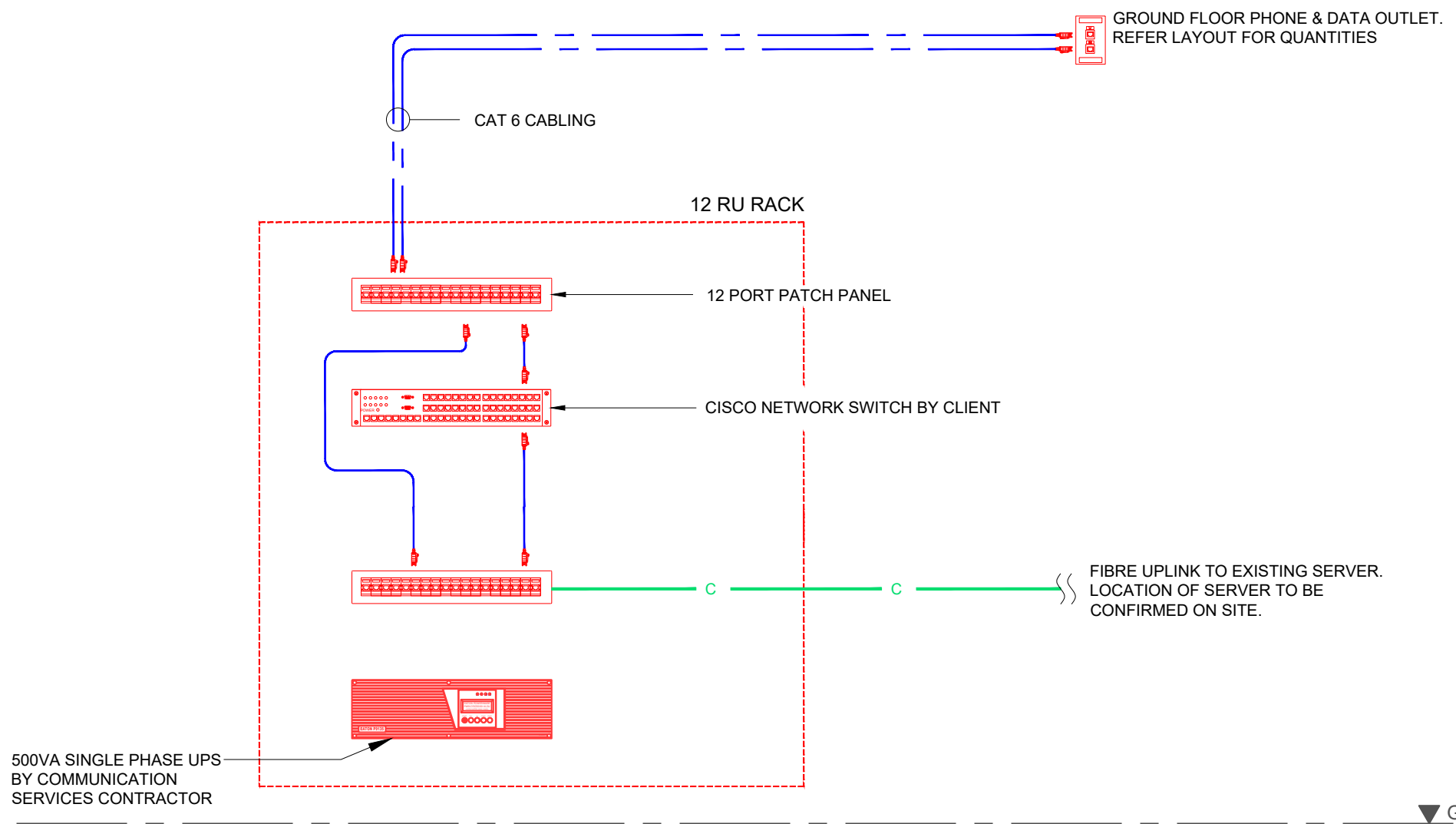
T1	180123	TENDER ISSUE
P1	071222	PRELIMINARY ISSUE
NO.	DATE:	REVISION:

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

DRAWING TITLE:
PROPOSED ELECTRICAL SCHEMATIC &
CABLE SCHEDULE

DESIGN:	SP
DRAWN:	NP/ST
QA:	AA/NP
SCALE:	N/A
DATE:	180123
STATUS:	TENDER ISSUE

PROJECT NO:	3885
AUTOCAD FILE NO:	3885-E5-T1
SHEET NO:	E5
SIZE:	A3
REVISION:	T1



1 PROPOSED COMMUNICATIONS SCHEMATIC DIAGRAM
 E6 SCALE: N/A

NOTE:
 1. THE COMMUNICATION CONTRACTOR TO TRACE AND IDENTIFY THE CONNECTION OF DATA POINTS TO EXISTING SERVER.

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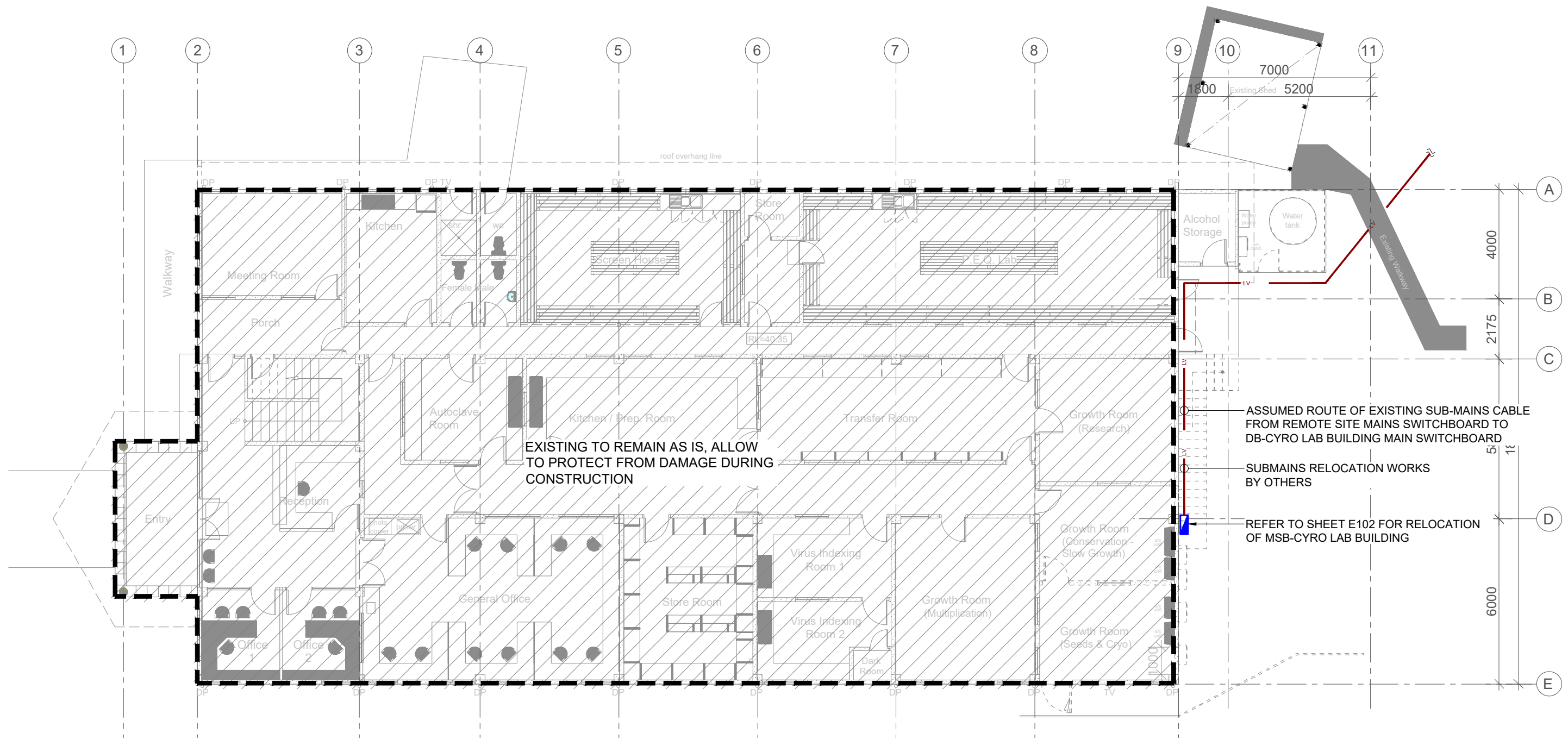
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P1	071222	PRELIMINARY ISSUE
NO.	DATE:	REVISION:

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

DRAWING TITLE:
**PROPOSED COMMUNICATIONS SCHEMATIC
 DIAGRAM**

DESIGN:	SP
DRAWN:	NP/ST
QA:	AA/NP
SCALE:	N/A
DATE:	180123
STATUS:	TENDER ISSUE

PROJECT NO:	3885				
AUTOCAD FILE NO:	3885-E6-T1				
SHEET NO:	E6	SIZE:	A3	REVISION:	T1



1 EXISTING SITE LAYOUT - ELECTRICAL SERVICES
 E100 SCALE: 1:150

- NOTES:**
1. SUBMAINS UPGRADE WORKS BY OTHERS
 2. ALL TPS EXTENSIONS FOR RELOCATION SHALL BE DONE BY THE ELECTRICAL CONTRACTOR
 3. THE ELECTRICAL CONTRACTOR TO ENSURE THERE IS POWER ON SITE WHEN RELOCATION WORKS ARE DONE.

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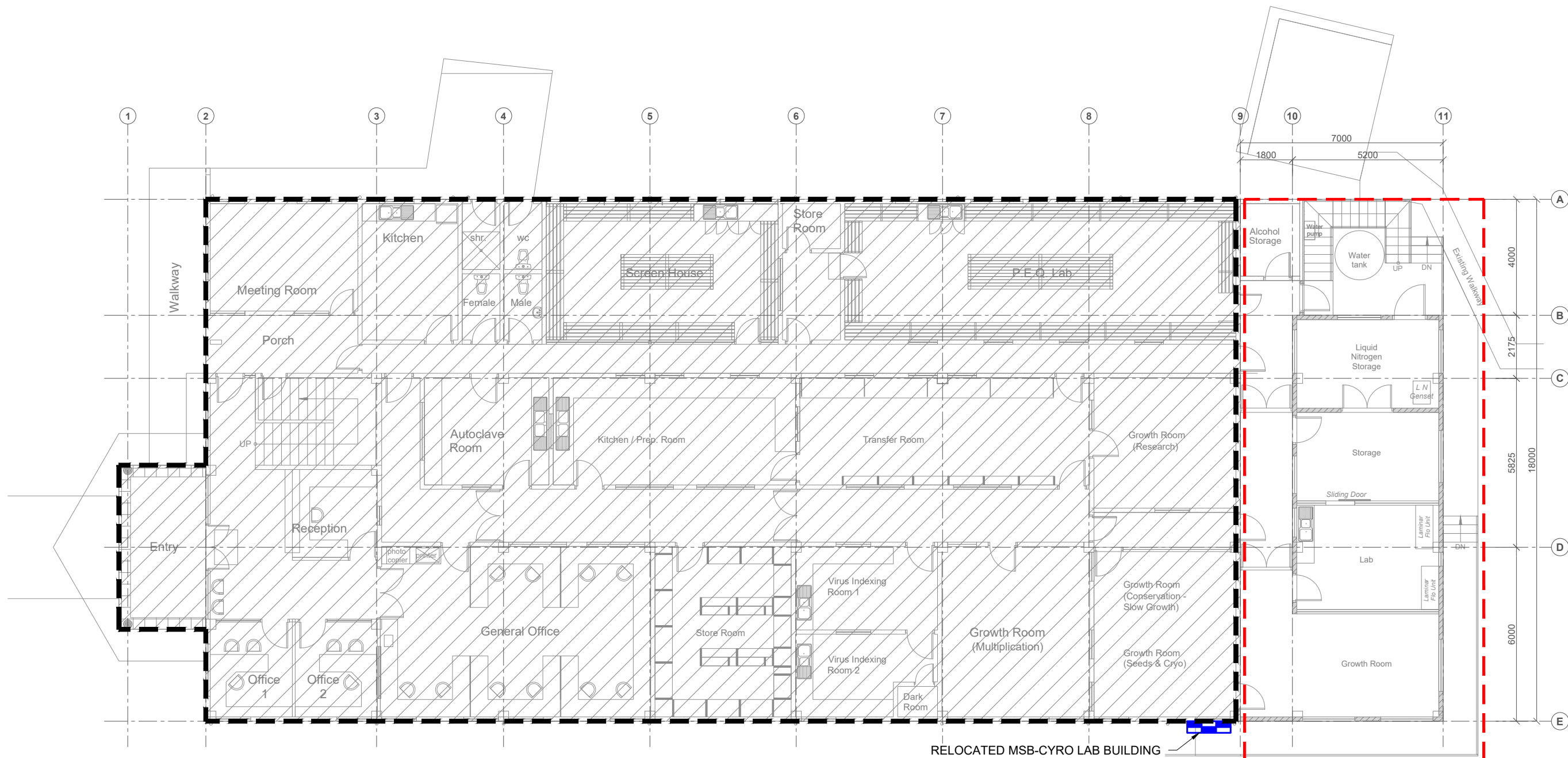
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FNTC ROAD 2, NASINU.

DRAWING TITLE:
EXISTING SITE LAYOUT - ELECTRICAL SERVICES

DESIGN:	SP
DRAWN:	NP/ST
QA:	AA/NP
SCALE:	1:150
DATE:	180123
STATUS:	TENDER ISSUE

PROJECT NO:	3885				
AUTOCAD FILE NO:	3885-E100-T1				
SHEET NO:	E100	SIZE:	A3	REVISION:	T1

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NOTES:

1. ELECTRICAL CONTRACTOR TO ALLOW FOR ALL RELEVANT COSTS RELOCATION SHALL BE DONE STRICTLY AFTER HOURS AND TO APPROVED METHODOLOGY.
2. ELECTRICAL CONTRACTOR SHALL ENSURE THAT POWER SUPPLY TO CRITICAL LAB EQUIPMENT IS UNINTERRUPTED WHILST THE CHANGEOVER IS HAPPENING, ALLOW TO PROVIDE A PORTABLE GENERATOR FOR THIS WORK DURATION.
3. ELECTRICAL CONTRACTOR TO ALLOW ALL RELEVANT COSTS FOR EXTENDING THE EXISTING SUB-MAINS CABLE FROM THE REMOTE SITE MAINS SWITCHBOARD TO THE NEW LOCATION OF THIS MSB-CYRO LAB BUILDING.
4. ELECTRICAL CONTRACTOR TO ALLOW ALL RELEVANT COSTS FOR EXTENDING ALL OUTGOING CABLES FROM CURRENT LOCATION OF MSB-CYRO LAB BUILDING TO ITS NEW LOCATION.

1
PROPOSED SITE LAYOUT - ELECTRICAL SERVICES
 E101 SCALE: 1:150

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PROPOSED EXTENSION TO EXISTING BUILDING-CRYO LAB
FNTC ROAD 2, NASINU.

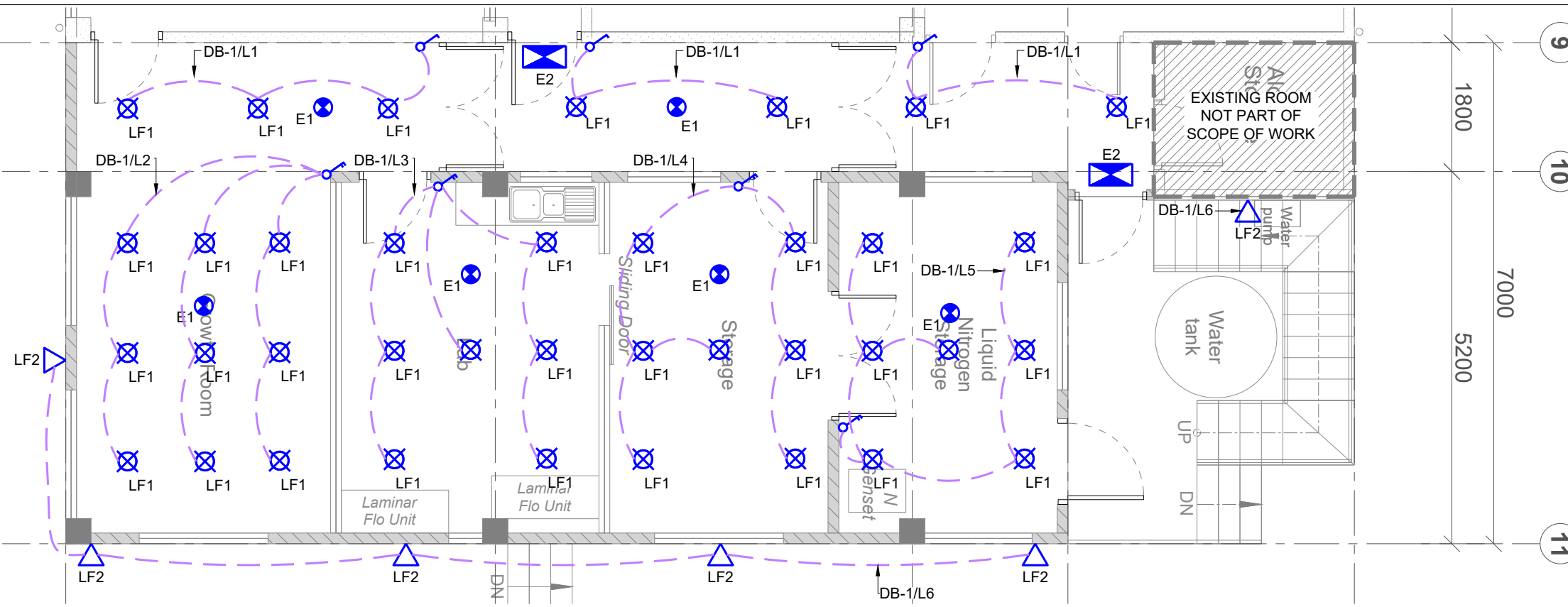
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PROPOSED SITE LAYOUT - ELECTRICAL SERVICES

DESIGN:	SP
DRAWN:	NP/ST
QA:	AA/NP
SCALE:	1:150
DATE:	180123
STATUS:	TENDER ISSUE

PROJECT NO:	3885				
AUTOCAD FILE NO:	3885-E101-T1				
SHEET NO:	E101	SIZE:	A3	REVISION:	T1

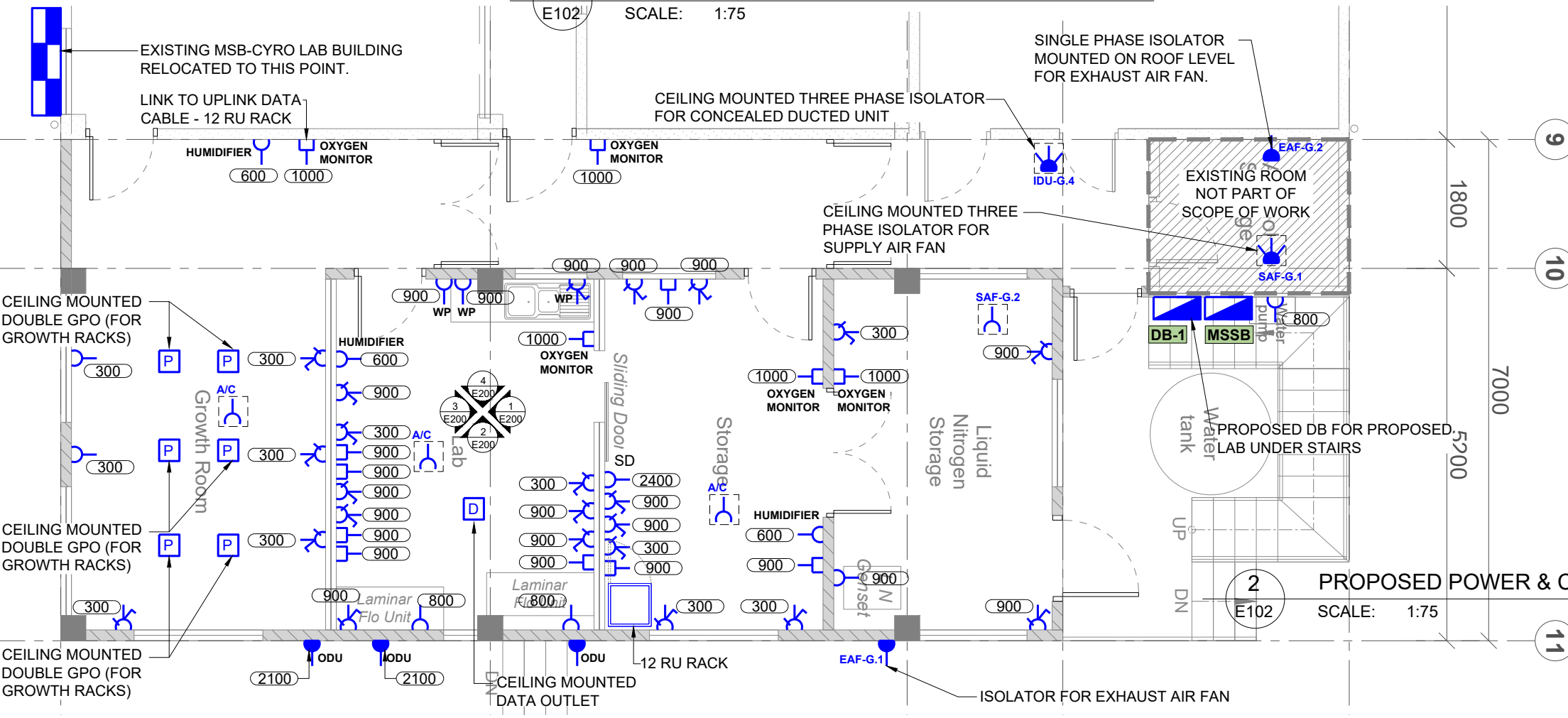
MSSB NOTES:

1. NEW MSSB FOR LAB EXTENSION.
2. ELECTRICAL CONTRACTOR TO PROVIDE SUB-MAINS FROM MSB-CYRO LAB BUILDING TO THIS POINT ONLY.
3. MECHANICAL CONTRACTOR TO PROVIDE MSSB AND ALL CIRCUIT BREAKERS, FITTINGS, WIRING FROM THIS POINT ONWARDS TO MECHANICAL SERVICES EQUIPMENTS .



1 PROPOSED LIGHTING LAYOUT - GROUND FLOOR

SCALE: 1:75



2 PROPOSED POWER & COMMUNICATION LAYOUT - GROUND FLOOR

SCALE: 1:75

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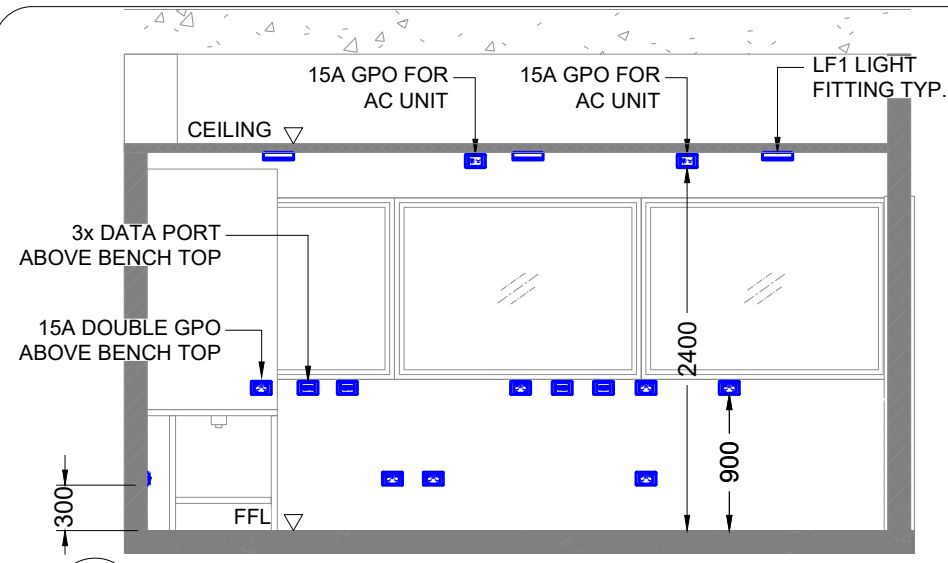
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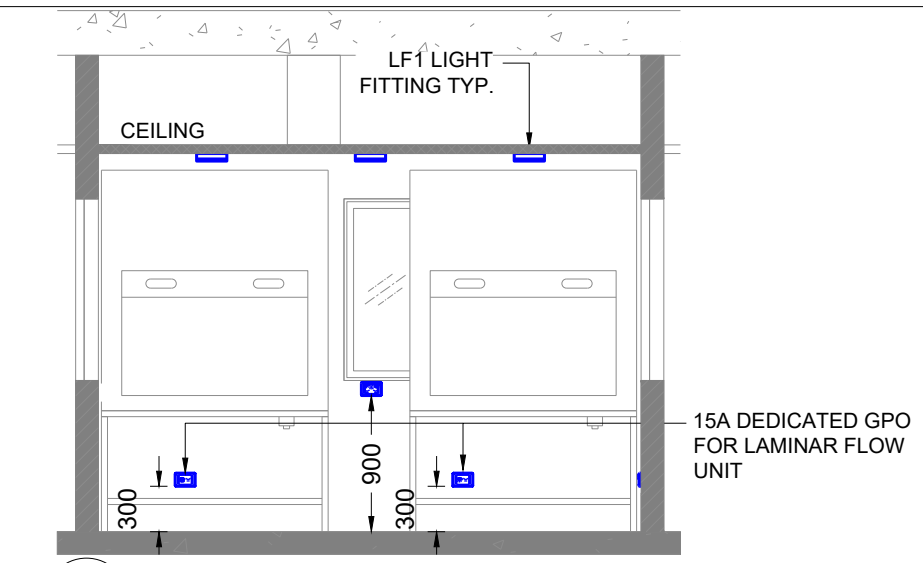
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DESIGN:	SP	PROJECT NO:	3885
DRAWN:	NP/ST	AUTOCAD FILE NO:	3885-E102-T1
QA:	AA/NP	SHEET NO:	E102
SCALE:	1:75	SIZE:	A3
DATE:	180123	REVISION:	T1
STATUS:	TENDER ISSUE		

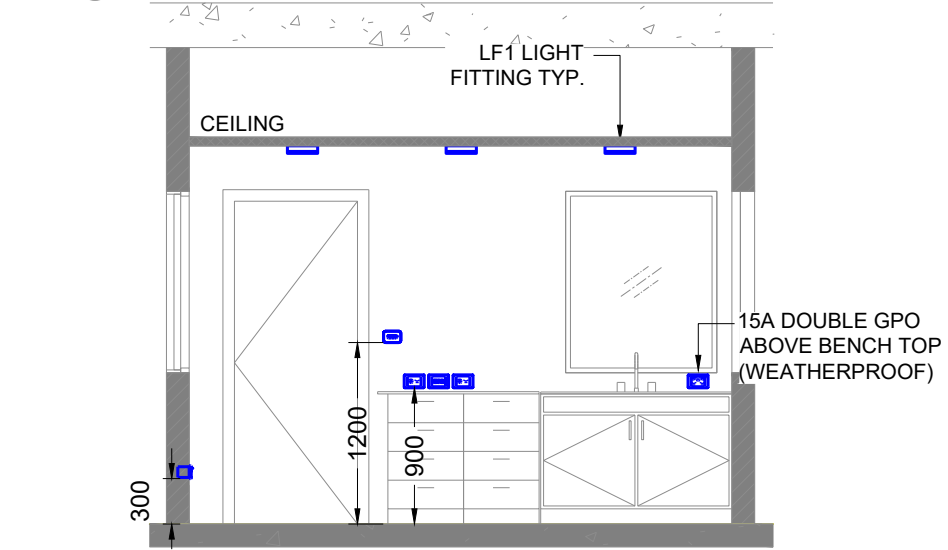
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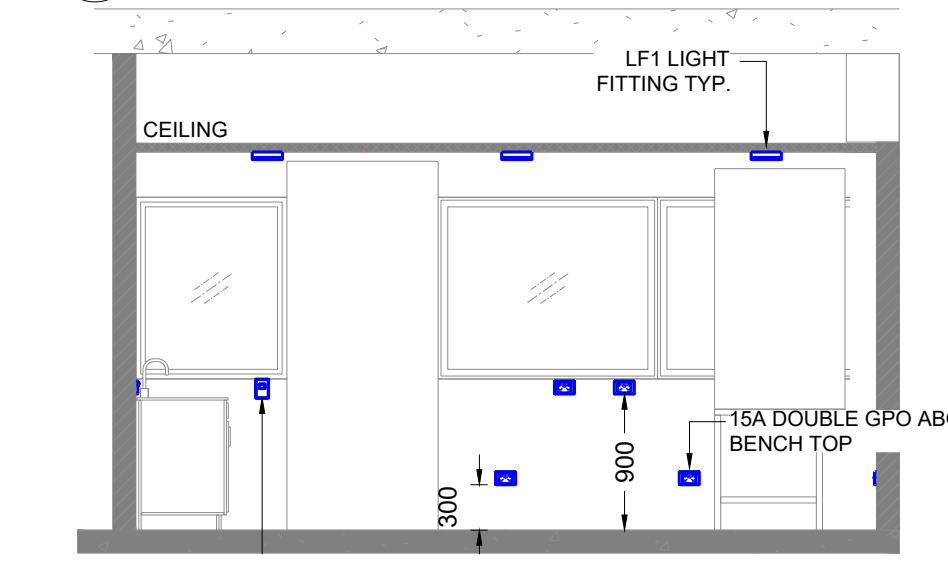
1 PROPOSED ELECTRICAL SECTION LAYOUT 1 - 1
E200 SCALE: 1:50



4 PROPOSED ELECTRICAL SECTION LAYOUT 4 - 4
E200 SCALE: 1:50



2 PROPOSED ELECTRICAL SECTION LAYOUT 2 - 2
E200 SCALE: 1:50



3 PROPOSED ELECTRICAL SECTION LAYOUT 3 - 3
E200 SCALE: 1:50

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FNTC ROAD 2, NASINU.**

DRAWING TITLE:
PROPOSED ELECTRICAL SECTIONS

DESIGN:	SP
DRAWN:	NP/ST
QA:	AA/NP
SCALE:	1:50
DATE:	180123
STATUS:	TENDER ISSUE

PROJECT NO:	3885				
AUTOCAD FILE NO:	3885-E200-T1				
SHEET NO:	E200	SIZE:	A3	REVISION:	T1