

PACIFIC COMMUNITY

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

HYDRAULIC SERVICES

SHEET NUMBER	SHEET TITLE	REVISION NUMBER	DATE	STATUS
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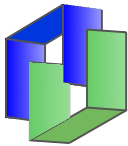
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**TENDER ISSUE
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GENERAL NOTES

1. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE TECHNICAL SPECIFICATIONS AND ALL OTHER RELEVANT DOCUMENTS.
2. ALL PLUMBING SHALL BE CARRIED OUT AS PER AS3500 STANDARDS AND LOCAL AUTHORITY REQUIREMENTS,
 - 1.1 AS3500.1 PART 1 WATER SERVICES
 - 1.2 AS3500.2 PART 2 SANITARY PLUMBING AND DRAINAGE
 - 1.3 AS3500.3 PART 3 STORMWATER DRAINAGE
 - 1.4 AS3500.4 PART 4 HEATED WATER SERVICES
 - 1.5 FIJI NATIONAL BUILDING CODE
3. USE NEW MATERIALS AND FITTINGS UNLESS OTHERWISE INDICATED.
4. CONFIRM EXACT POSITIONS OF PIPE RUNS AND FIXTURES WITH SERVICES ENGINEER ON SITE. MARK OUT ALL FINAL LOCATIONS WITH CHALK PRIOR TO INSTALLING. DRAWINGS SHOW INDICATIVE AND PROPOSED ROUTING. CO-ORDINATE ALL PIPE ROUTES WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
5. ALL WATER SUPPLY PIPEWORK SHALL BE PRESSURE TESTED TO AS/NZS3500 STANDARDS, TO A MINIMUM OF 1500kPA FOR 30 MINUTES TO AS/NZS3500.1
6. ALL SANITARY DRAINAGE PIPEWORK AND STORMWATER PIPEWORK TO BE STATIC PRESSURE TESTED TO AS/NZS 3500.2 AND AS NZS 3500.3
7. ALL DCW DISTRIBUTION PIPES TO BE AS SHOWN AND BRANCH CONNECTIONS TO FIXTURES TO BE DN15 OR TO SUIT.
8. RUN PIPES IN STRAIGHT LINES WITH EASY SWEEPS. PROVIDE ADEQUATE SUPPORTS.
9. CLEAN ALL PIPES TO REMOVE DIRT AND CONSTRUCTION MATERIAL.
10. USE MACHINE-MADE PIPE BENDS, THE USE OF ON-SITE HEATING AND BENDING IS NOT PERMITTED.
11. SEAL ALL PENETRATIONS WITH FIRE RESISTANT MATERIAL, HILTI CP611A - INTUMESCENT FIRE SEALANT OR APPROVED EQUIVALENT.
12. INSTALL PIPES TO ALLOW FOR THERMAL EXPANSION AND TO AVOID AIR LOCKS.
13. USE UPVC PIPES FOR SANITARY PLUMBING, DRAINS AND VENTS TO AS/NZS 1260. USE RUBBER RING JOINTS TO JOIN PIPE LENGTHS AS PER MANUFACTURERS SPECIFICATIONS
14. ALL DCW PIPES THAT ARE ENCASED IN CONCRETE SLABS OR BLOCKWORK ARE TO BE COVERED WITH DOUBLE DENSO TAPE WRAP. PROVIDE SLEEVES FOR PIPES THROUGH COLUMNS AND BEAMS.
15. PROVISION SHALL BE MADE IN ALL PIPE LINES TO ACCOMMODATE EXPANSION DUE TO TEMPERATURE CHANGE WITHOUT STRESS OR DAMAGE TO THE PIPE LINES. PIPE ANCHORS SHALL BE USED ADJACENT TO ALL EXPANSION JOINTS AND GENERALLY FOR THE CONTROL OF THE DIRECTION OF THE EXPANSION.
16. CONTRACTOR SHALL ENSURE THAT ADEQUATE FALL IS PROVIDED FOR SANITARY AND CONDENSATE DRAINS.
17. CONFIRMED LOCATIONS OF SANITARY FIXTURES & FITTINGS SHALL BE DETERMINED FROM THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECT'S SCHEDULE OF FIXTURES & TAPWARE.
18. ALL SANITARY DRAINS SHALL HAVE A MINIMUM CLEARANCE OF 150MM FROM EACH OTHER.
19. HYDRAULICS CONTRACTOR TO OBTAIN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO ANY PENETRATION IN THE STRUCTURE. ALL PENETRATION THROUGH BEAM TO BE MINIMUM OF 2M AWAY FROM COLUMN.
20. SPECIFICATIONS AND DATASHEETS OF ALL EQUIPMENTS SHALL BE SUBMITTED TO SERVICES ENGINEERS FOR APPROVAL PRIOR TO ORDERING.
21. UNLESS IT IS NOTED ON THE DRAWINGS, POWER SUPPLIES FOR HYDRAULICS EQUIPMENT WILL BE PROVIDED BY ELECTRICAL CONTRACTORS AS ELECTRICAL ISOLATORS MOUNTED ADJACENT TO HYDRAULICS EQUIPMENT. ALL WIRING FROM THE ELECTRICAL ISOLATORS ONWARDS SHALL BE DONE BY THE HYDRAULICS CONTRACTOR.
22. HYDRAULICS CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR CONDENSATE DRAINAGE CONNECTIONS FOR AIR-CONDITIONING UNITS.
23. ALL DCW PIPES SHALL BE TAGGED AND CORRECTLY LABELLED AT EVERY 3 METERS INTERVALS. LABELS SHALL BE SUITED FOR USE.
24. THRUST BLOCKS SHALL BE INSTALLED ON STEEP GRADE DRAINS AND WATER PIPES AT INTERVALS NOT EXCEEDING 3 METERS.
25. THRUST BLOCKS SHALL BE OF REINFORCED CONCRETE HAVING TWO REINFORCEMENT RODS OF NOT LESS THAN 9MM DIAMETER.
26. HYDRAULIC CONTRACTOR TO COORDINATE WITH CIVIL WORKS REGARDING THE EXISTING SEWER MANHOLE STORM DRAINAGE MANHOLE INCLUDING INVERT LEVEL AND LEAD LEVEL ON ACTUAL SITE AND PROVIDE SHOP DRAWINGS FOR ENGINEERS APPROVAL
27. HYDRAULICS CONTRACTOR TO PROVIDE VENT PIPES TO AS 3500.2 STANDARD FOR ALL KITCHEN SINK, CLEANERS SINKS, WASH HAND BASINS BRANCH DRAIN PIPES EXCEEDING 2.5M IN LENGTH AND FOR ALL WC's BRANCH DRAINS EXCEEDING 6M IN LENGTH.

ABBREVIATIONS

CV	CHECK VALVE	IL	INVERT LEVEL
DN	NOMINAL DIAMETER	IV	ISOLATION VALVE
DSW	DOMESTIC SANITARY WASTE	KS	KITCHEN SINK
DCW	DOMESTIC COLD WATER	NRV	NON RETURN VALVE
DW	DRAIN WASTE	PG	PRESSURE GAUGE
FLV	FLOAT VALVE	PS	PRESSURE SWITCH
FSL	FINISHED SURFACE LEVEL	SWIC	STORM WATER INSPECTION CHAMBER
FWG	FLOOR WASTE GULLY	T	TUNDISH
FW	FLOOR WASTE	TD	TRENCH DRAIN
GV	GATE VALVE	TV	TERMINAL VENT
HT	HOSE TAP	VP	VENT PIPE

LINETYPES

COLD WATER LINE	
DOMESTIC SANITARY WASTE	

TENDER ISSUE

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NO.	DATE:	REVISION:
T1	180123	TENDER ISSUE

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

DRAWING TITLE:
**GENERAL NOTES ABBREVIATIONS &
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LEGEND OF SYMBOLS

	CAPPED OFF
	CLEANOUT
	DIRECTION OF FLOW
	DRAIN LOCATION
	FLOOR WASTE GULLY
	PIPE BREAK
	PIPE CHANGE IN ELEVATION
	OVERFLOW RELIEF GULLY TRAP

SCHEMATIC SYMBOLS

	NON-RETURN VALVE
	FLEXIBLE CONNECTION (TYP.)
	PUMP
	ISOLATION VALVE
	SHUT-OFF VALVE

MINIMUM CLEARANCE OF VENT PIPES FROM BUILDING OPENINGS

TYPE OF OPENING VERTICAL (mm)	MINIMUM CLEARANCE FROM OPENING	
	HORIZONTAL (mm)	VERTICAL (mm)
WINDOWS, ROOF LIGHT, DOORS	3000	600
EAVES/ PARAPET	-	600
ROOF	-	150
DECK	3000	3000
AIR INTAKE (FANS, ETC)	6000	-

PIPE SCHEDULE

APPLICATION	LOCATION	PIPEWORK MATERIAL
SANITARY DRAINAGE	ABOVE GROUND	UNPLASTICISED POLY VINYL CHLORIDE (SEWER GRADE)
	UNDER GROUND	
COLD WATER SUPPLY RETICULATION PIPES	ABOVE GROUND	COPPER / POLYETHYLENE
	UNDER GROUND	UPVC
DRAIN VENTS	ALL LOCATIONS	UNPLASTICISED POLY VINYL CHLORIDE

SIZE OF SANITARY SEWER INSPECTION CHAMBER

DEPTH OF FLOOR CHAMBER	RECTANGULAR		CIRCULAR
	WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)
< 600	450	600	600
600 ≤ 900	600	900	900
> 900	750	1200	1050

MINIMUM PIPE SIZES FOR SANITARY APPLIANCES

SANITARY FIXTURE	MINIMUM SIZE OF TRAP OUT LET & DISCHARGE PIPE
HAND BASIN	DN40
SINKS	DN50
SHOWER	DN50
WATER CLOSET	DN100

MINIMUM GRADIENT FOR STORMWATER PIPES

NOMINAL SIZE	MINIMUM GRADIENT
DN90	1:90
DN100	1:120
DN150	1:200
DN225	1:350
DN300	1:350
DN375	1:350

PIPES SPECIFICATION FOR STORMWATER DRAINAGE

SIZES	TYPES
UP TO DN150	UPVC
DN 200 AND LARGER	PRE-CAST CONCRETE CULVERT PIPES

MINIMUM GRADIENT FOR SANITARY PIPES

NOMINAL SIZE	MINIMUM GRADIENT
DN40-65	1:40
DN80	1:60
DN100	1:60
DN150	1:100
DN200	1:200
DN300	1:350
DN500	1:500

MINIMUM DISCHARGE RATES AND SUPPLY SIZES FOR FIRE HOSE REELS

NOMINAL HOSE DIAMETER (mm)	MINIMUM DISCHARGE AT INLET PRESSURE	220kPa (l/sec)	MINIMUM SUPPLY PIPE SIZE (DN)
13		0.24	19
19		0.45	25
25		0.55	25

1 LEGEND OF SYMBOLS AND PIPE SCHEDULES
H3 SCALE: N/A

TENDER ISSUE

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DRAWING TITLE: **LEGEND OF SYMBOLS AND PIPE SCHEDULES**

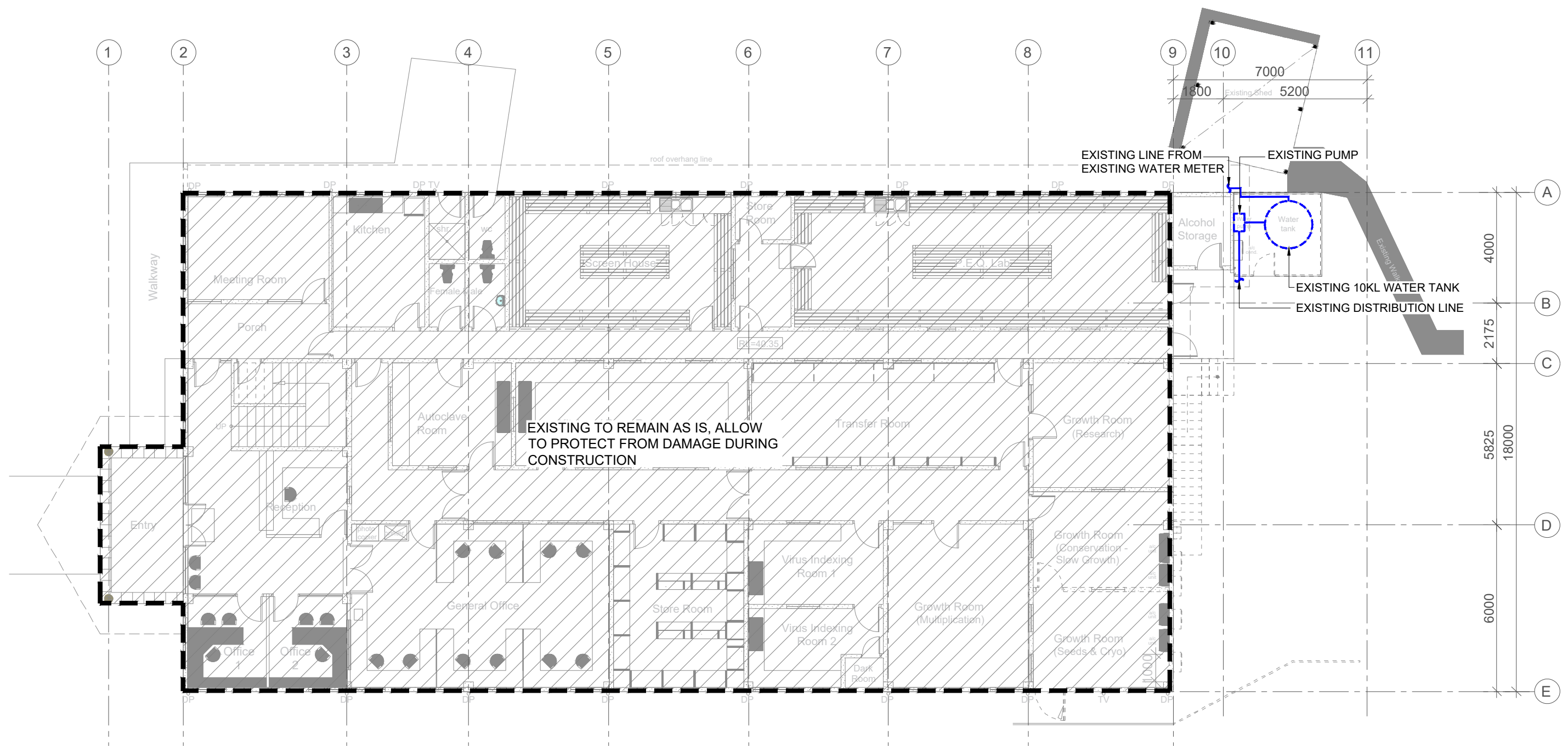
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1 EXISTING SITE LAYOUT - HYDRAULICS SERVICES
 H100 SCALE: 1:150

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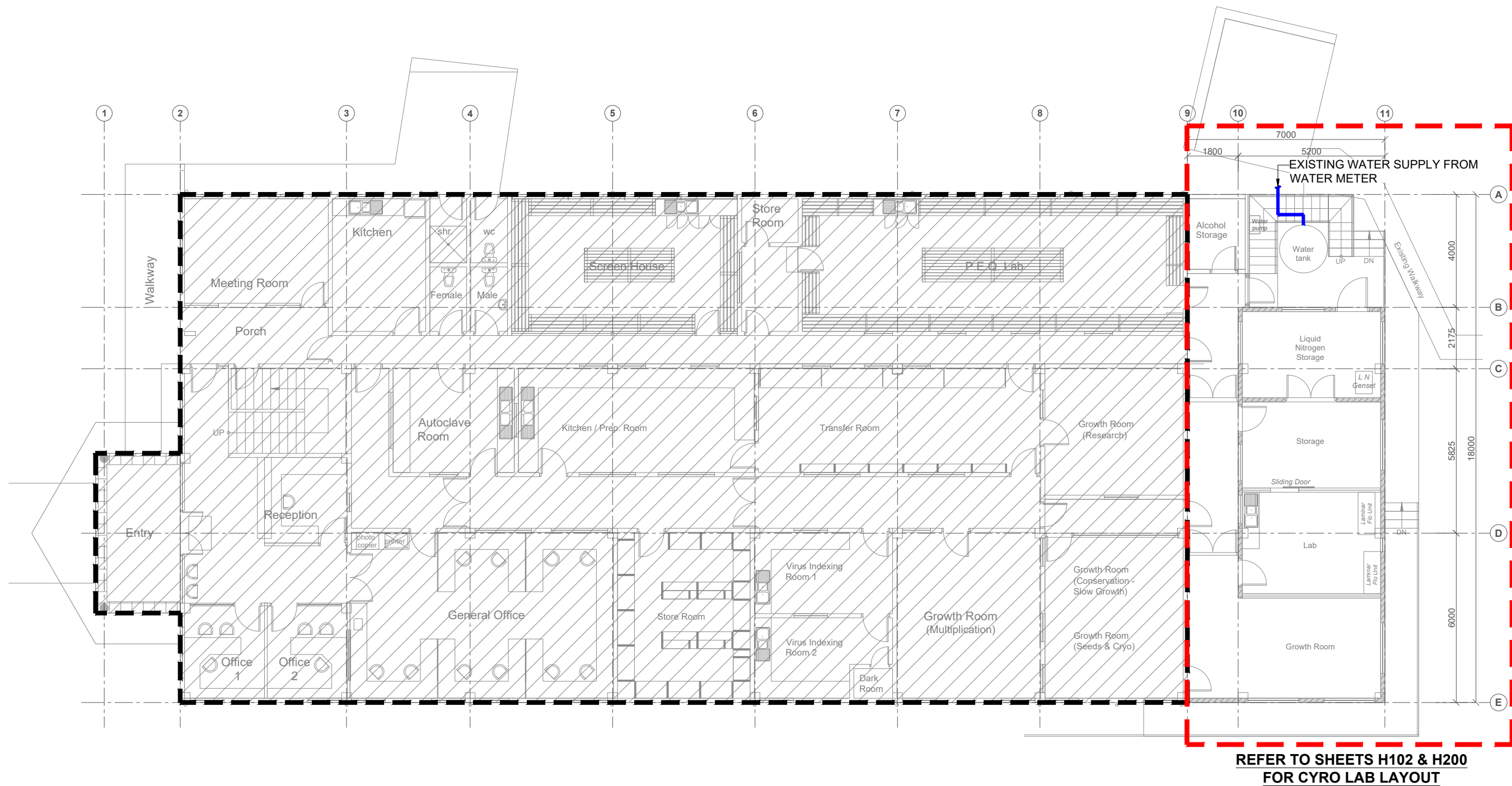
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1 PROPOSED SITE LAYOUT - HYDRAULICS SERVICES
 H101 SCALE: 1:150

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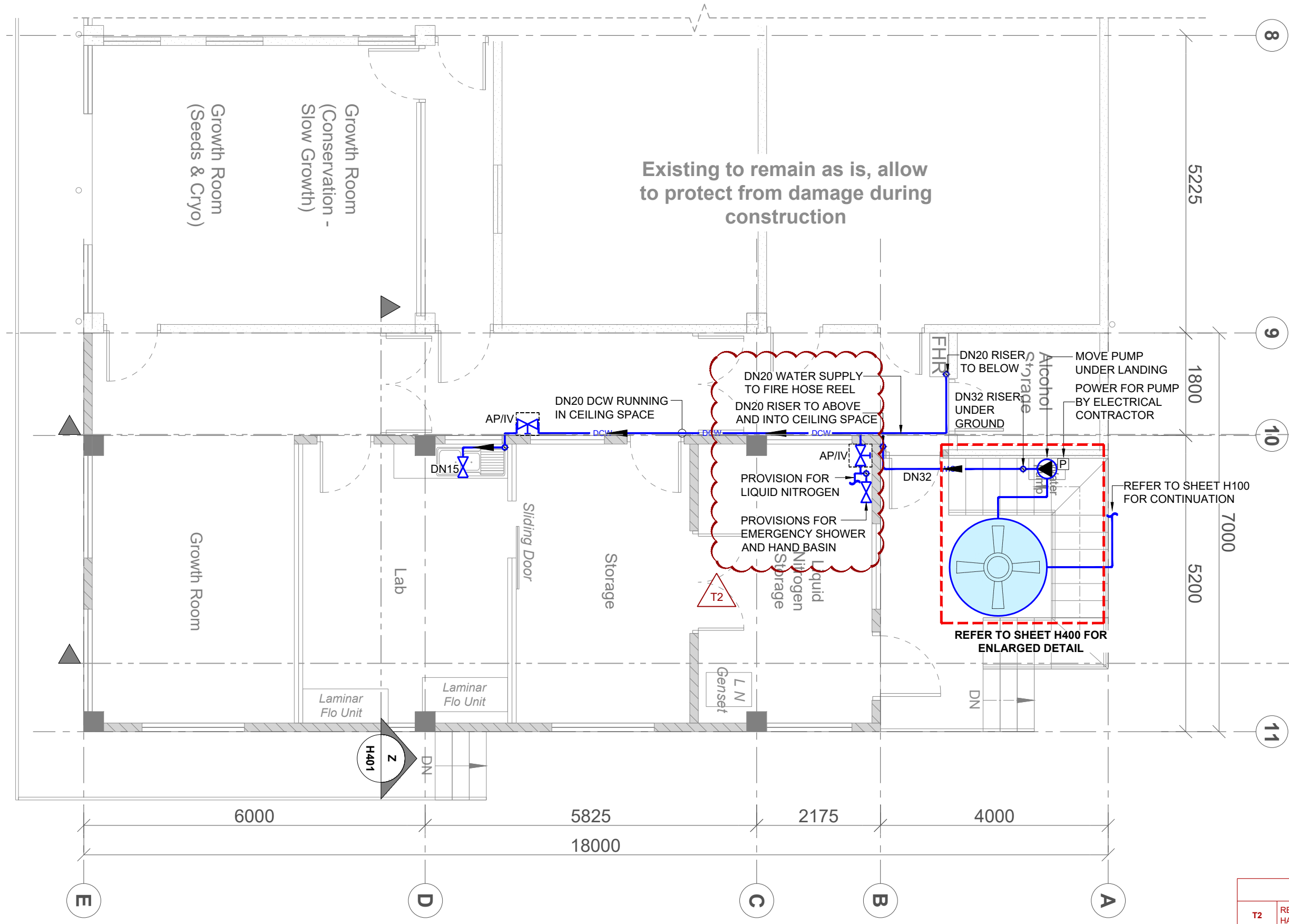
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1 PROPOSED DOMESTIC COLD WATER LAYOUT - GROUND FLOOR
 H102 SCALE: 1:70

REVISION	
T2	REVISION OF EMERGENCY SHOWER AND HAND BASIN LOCATION
T1	TENDER ISSUE

TENDER ISSUE

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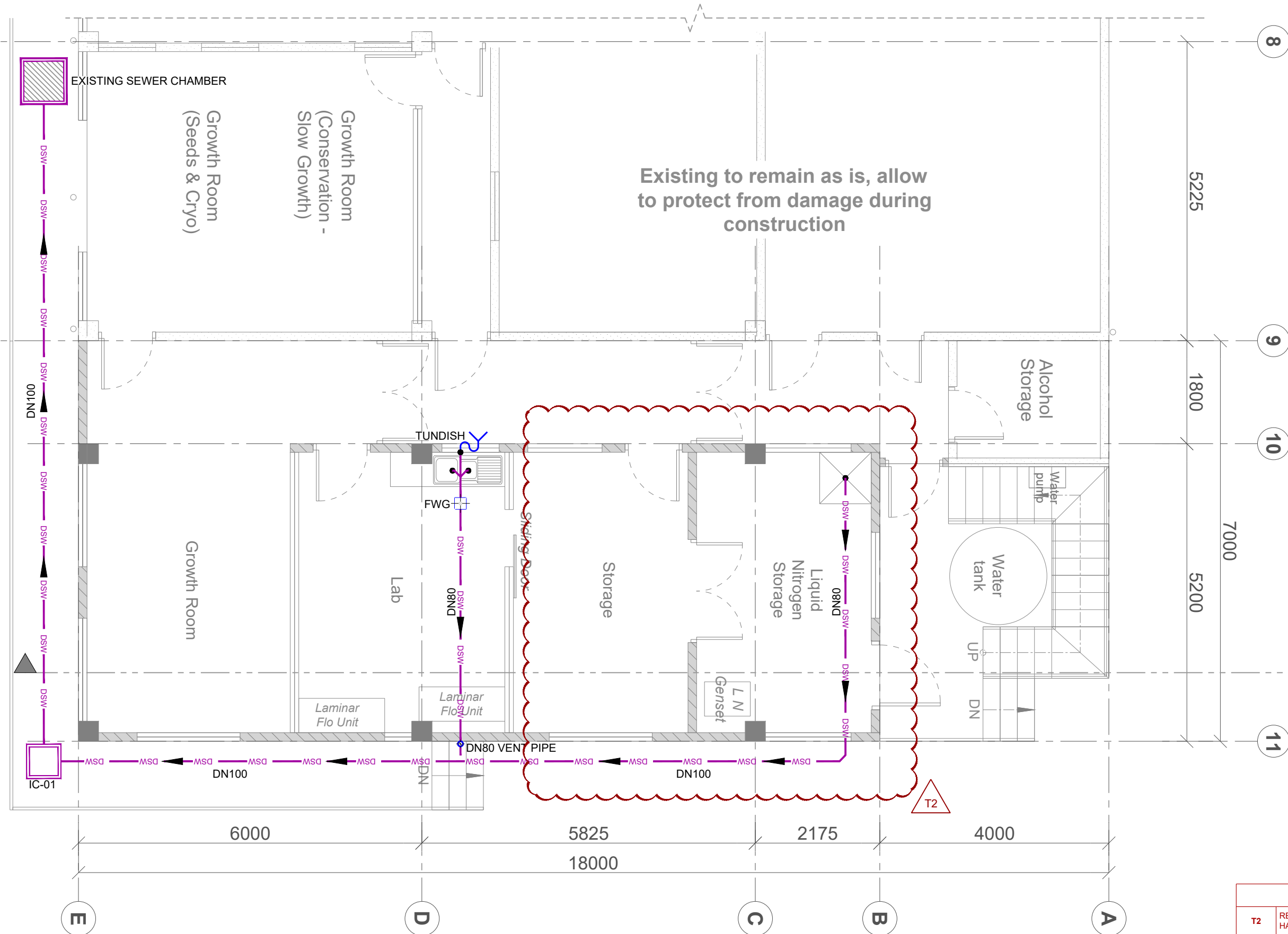
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T1	180123	TENDER ISSUE

PROJECT TITLE: **PACIFIC COMMUNITY**
 PROPOSED EXTENSION TO EXISTING BUILDING-CRYO LAB
 FNTC ROAD 2, NASINU.
 DRAWING TITLE:
 PROPOSED DOMESTIC COLD WATER
 LAYOUT - GROUND FLOOR

DESIGN:	SP
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Existing to remain as is, allow to protect from damage during construction

1 PROPOSED DOMESTIC SANITARY WASTE LAYOUT - GROUND FLOOR

SCALE: 1:70

REVISION	
T2	REVISION OF EMERGENCY SHOWER AND HAND BASIN LOCATION
T1	TENDER ISSUE

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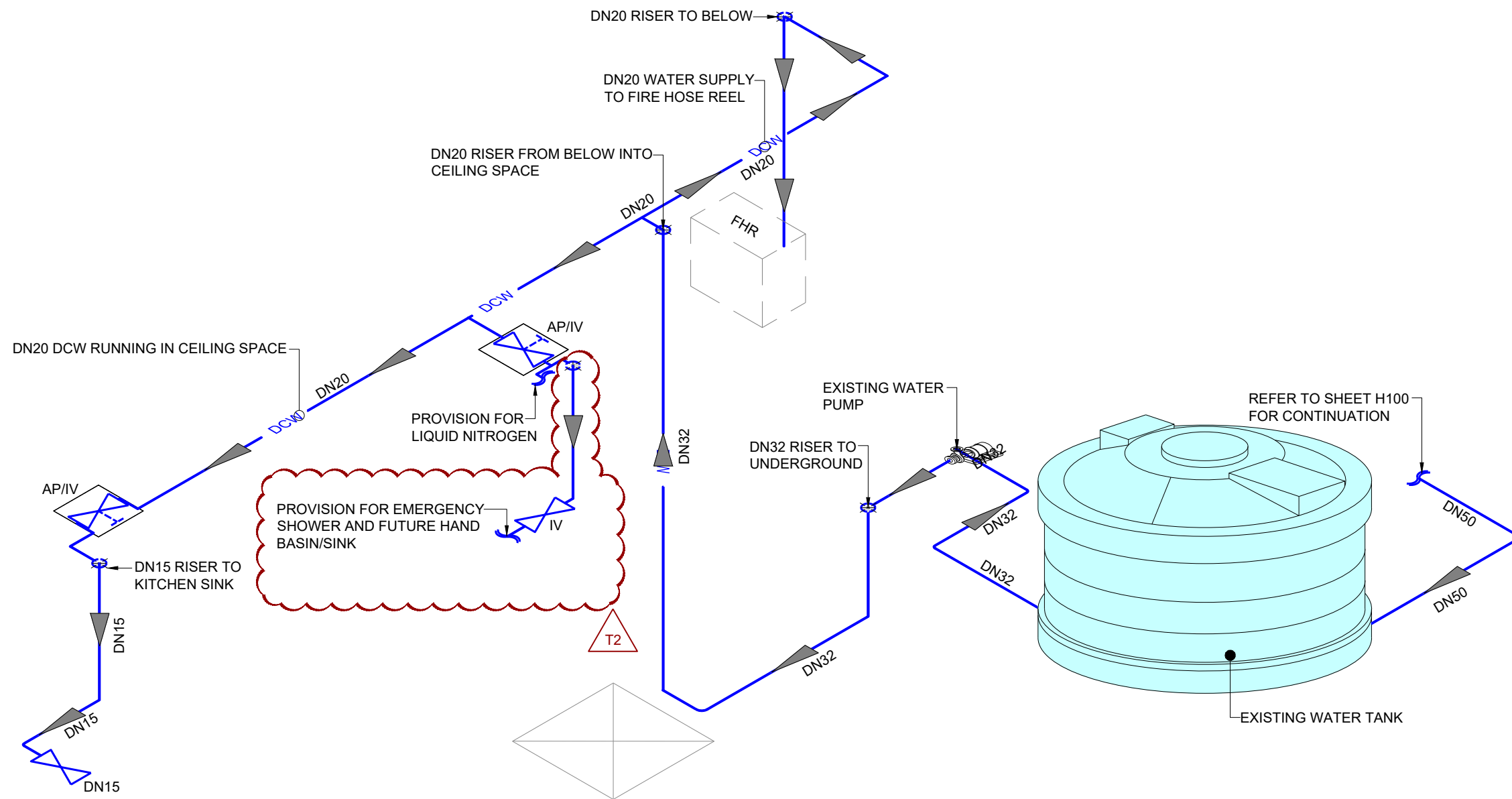
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T2	140223	REVISED TENDER
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1
H300

PROPOSED DOMESTIC COLD WATER SCHEMATICS LAYOUT

SCALE: 1:30

REVISION	
T2	REVISION OF EMERGENCY SHOWER AND HAND BASIN LOCATION
T1	TENDER ISSUE

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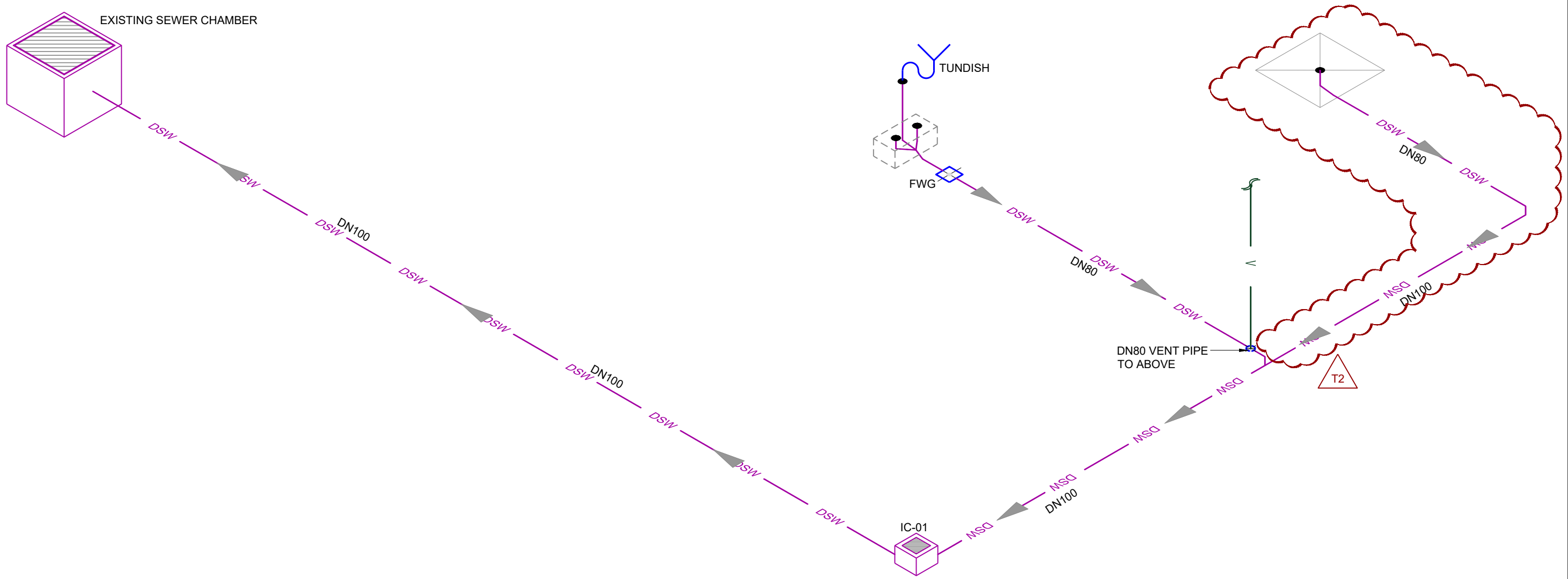
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T2

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1 PROPOSED DOMESTIC SANITARY WASTE SCHEMATICS LAYOUT
 H301 SCALE: 1:40

REVISION	
T2	REVISION OF EMERGENCY SHOWER AND HAND BASIN LOCATION
T1	TENDER ISSUE

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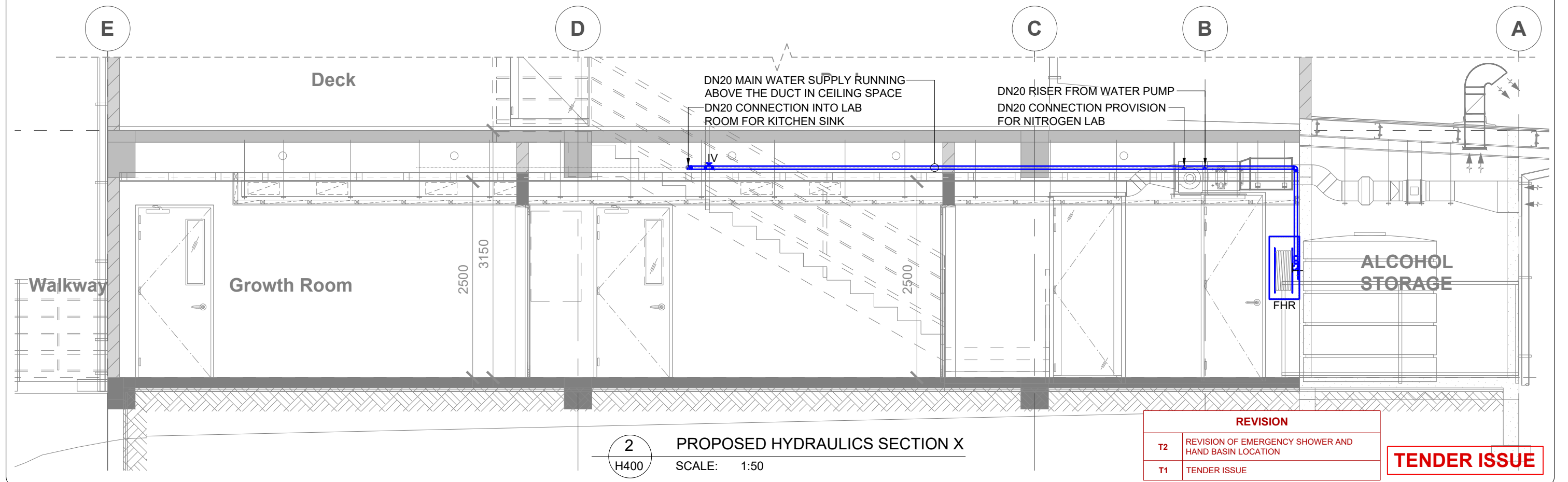
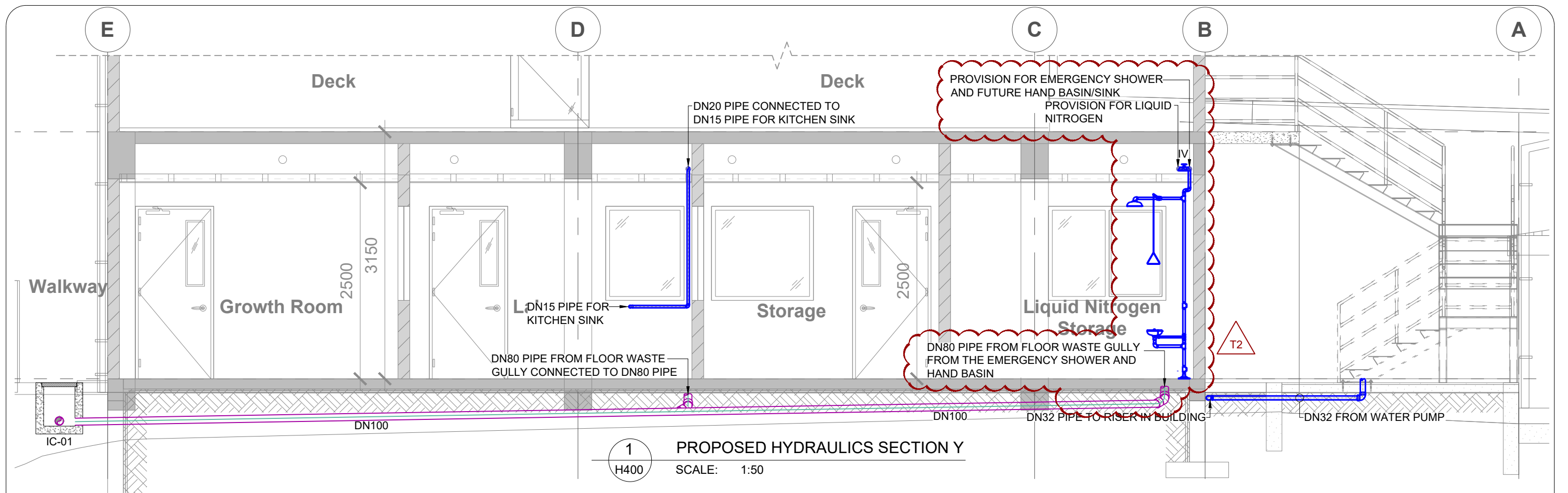
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SIZE:	A3
REVISION:	T2

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REVISION	
T2	REVISION OF EMERGENCY SHOWER AND HAND BASIN LOCATION
T1	TENDER ISSUE

TENDER ISSUE

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 INTERIOR DESIGNERS

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CLIENT:

Pacific Community
 Communauté du Pacifique

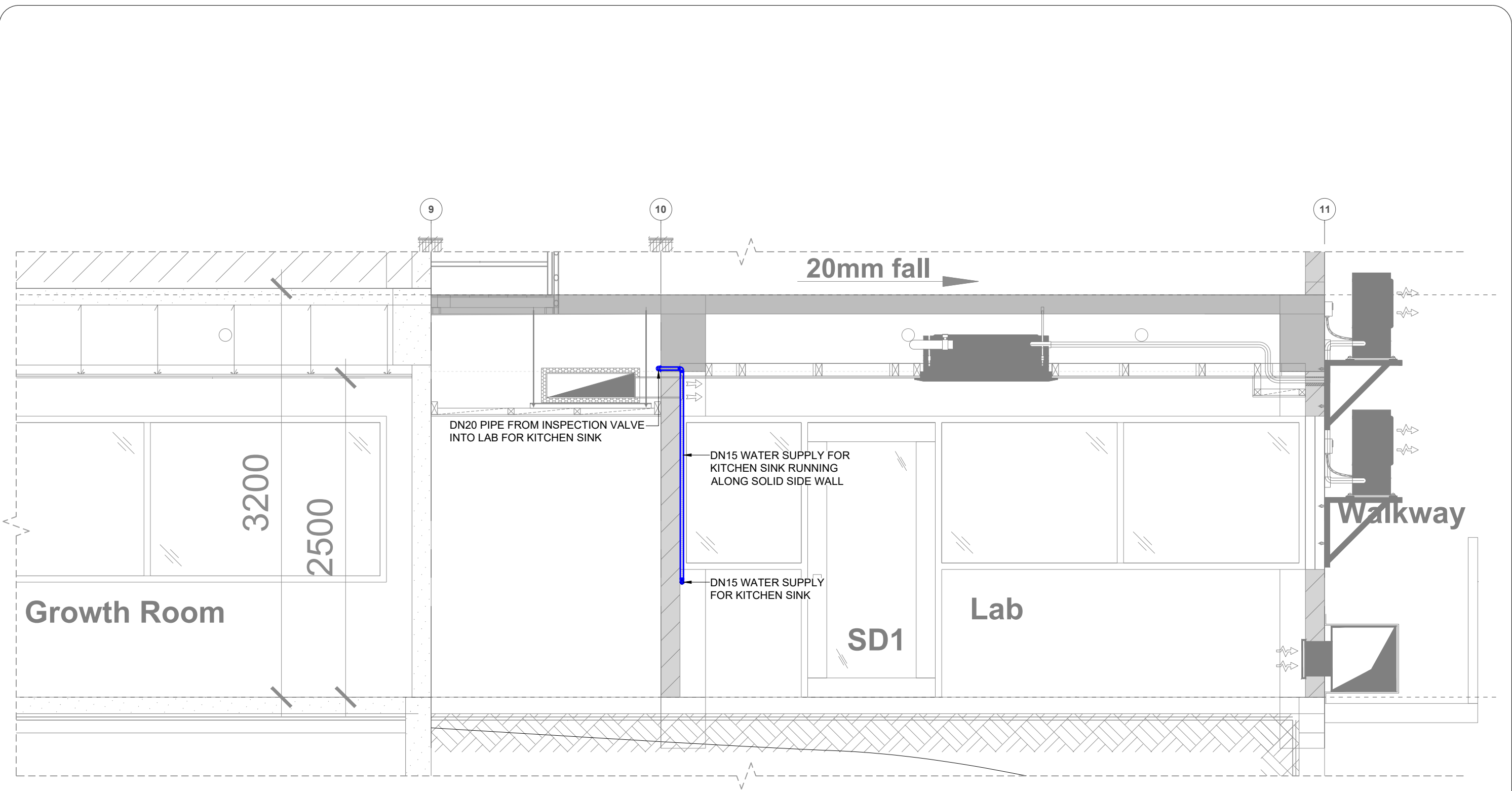
NO.	DATE	REVISION
T2	140223	REVISED TENDER
T1	180123	TENDER ISSUE

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

DRAWING TITLE:
 PROPOSED HYDRAULICS SECTIONS X AND Y

DESIGN:	SP
DRAWN:	RA
QA:	NP
SCALE:	1:50
DATE:	140223
STATUS:	REVISED TENDER

PROJECT NO:	3885
AUTOCAD FILE NO:	3885-H400-T2
SHEET NO:	H400
SIZE:	A3
REVISION:	T2



1 PROPOSED HYDRAULICS SECTION Z
 H401 SCALE: 1:30

TENDER ISSUE

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T1	100123	TENDER ISSUE
NO.	DATE:	REVISION:

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

DRAWING TITLE: **PROPOSED HYDRAULICS SECTION Z**

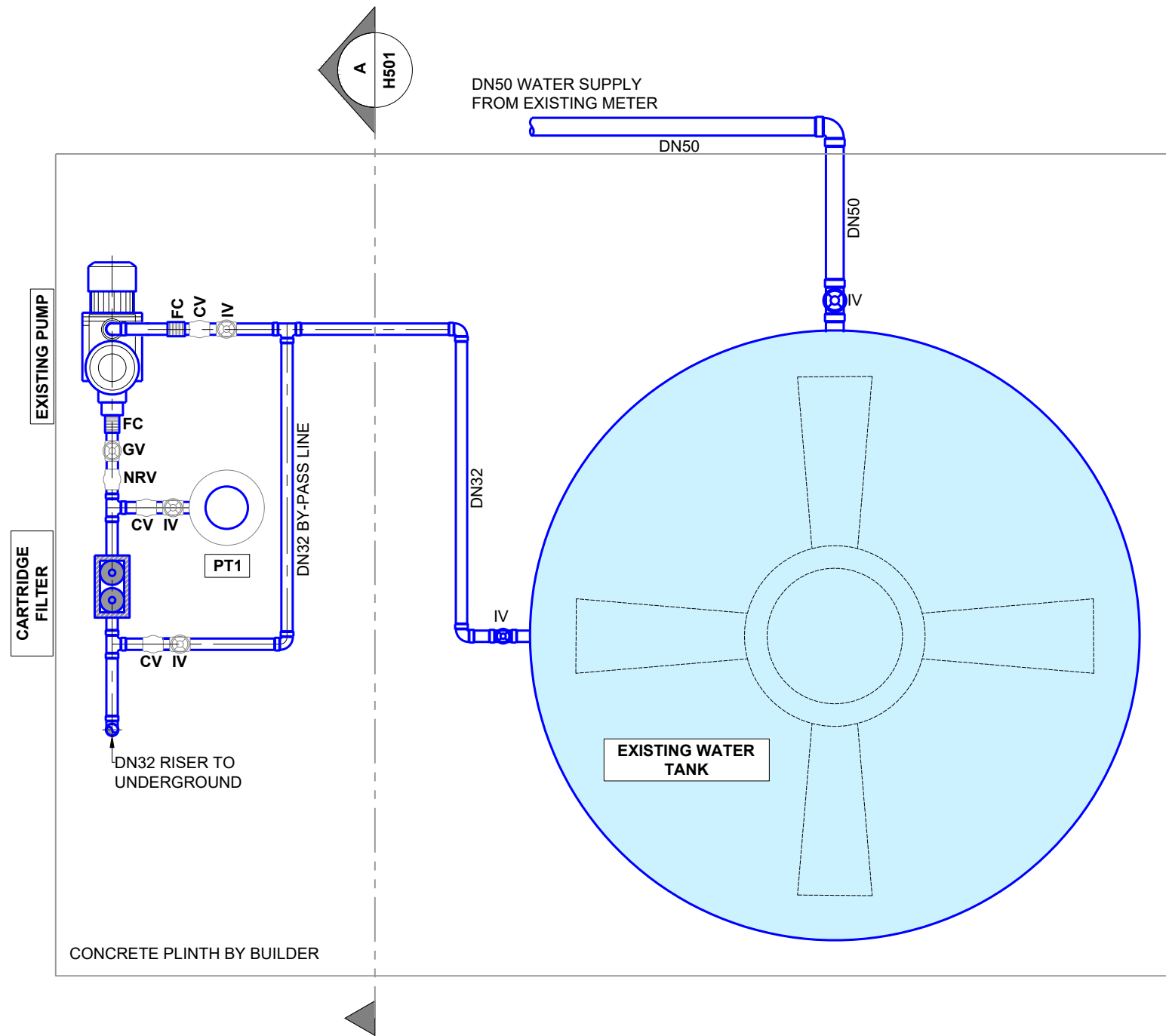
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STATUS:	TENDER ISSUE

PROJECT NO: **3885**

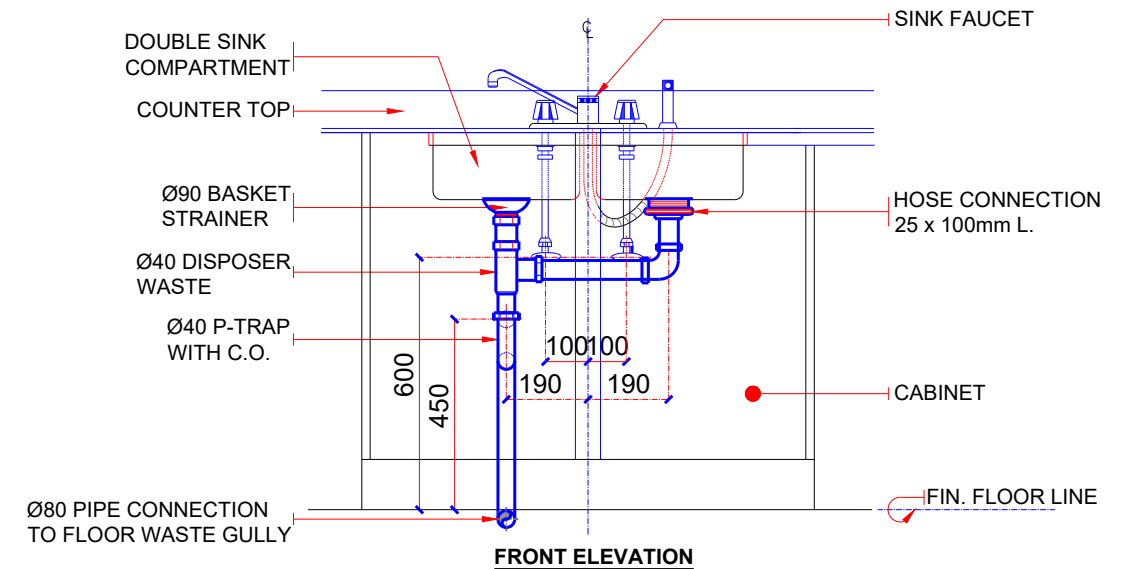
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SHEET NO: **H401** SIZE: **A3** REVISION: **T1**

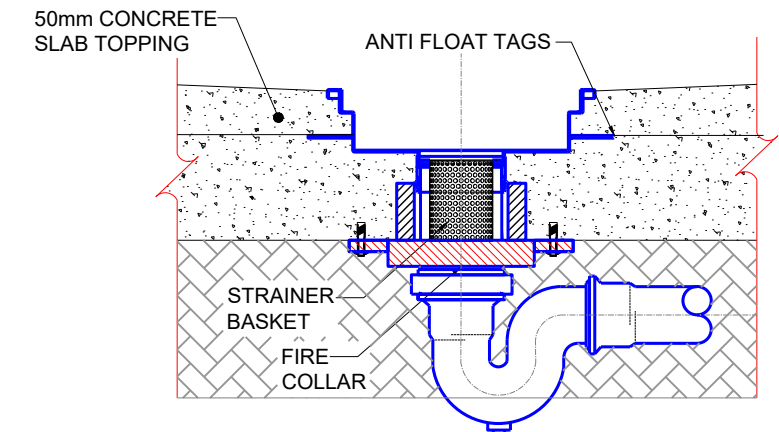
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3 ENLARGED WATER TANK AND PUMP LAYOUT
H500 SCALE: NTS



2 PROPOSED DOUBLE SINK DETAIL
H500 SCALE: NTS



1 FLOOR WASTE GULLY DETAIL
H500 SCALE: NTS

TENDER ISSUE

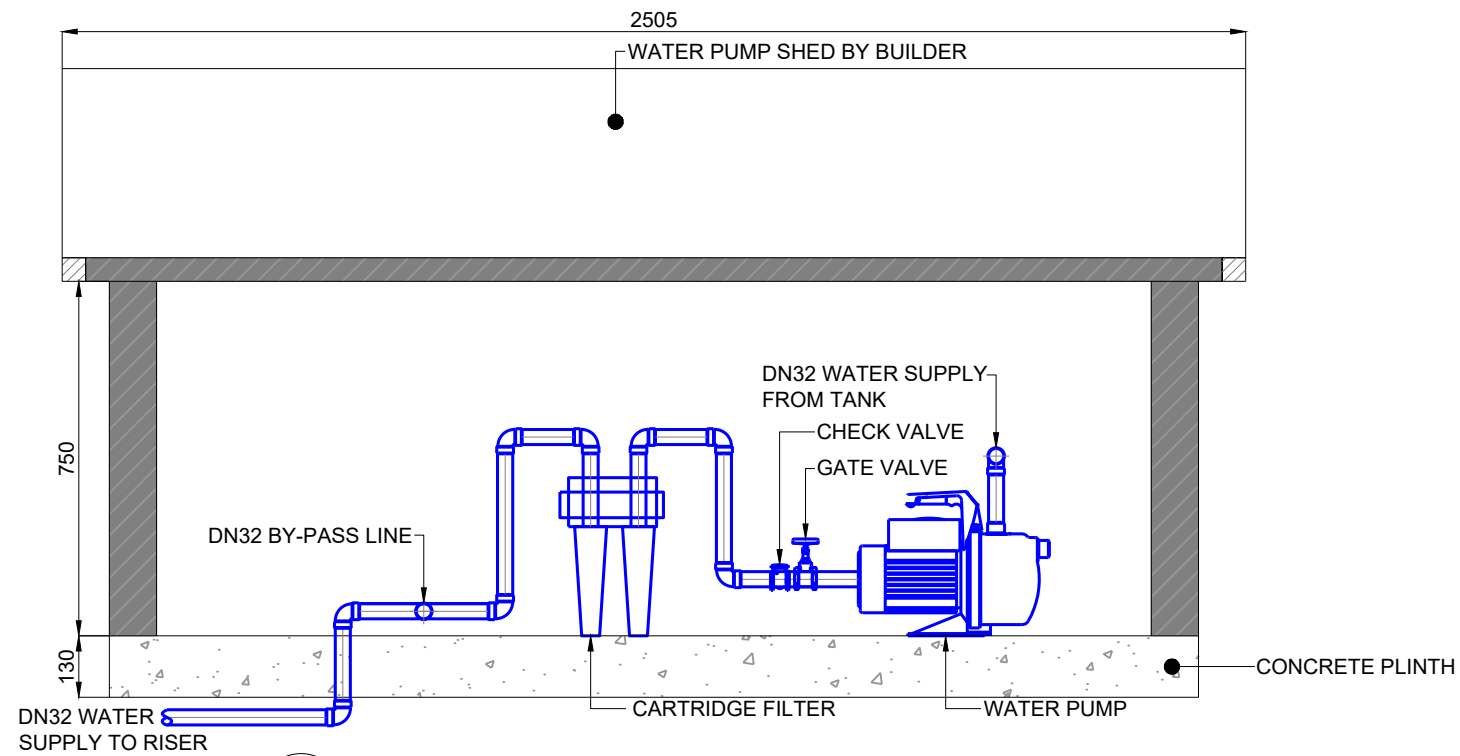
T1	180123	TENDER ISSUE
NO.	DATE:	REVISION:

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

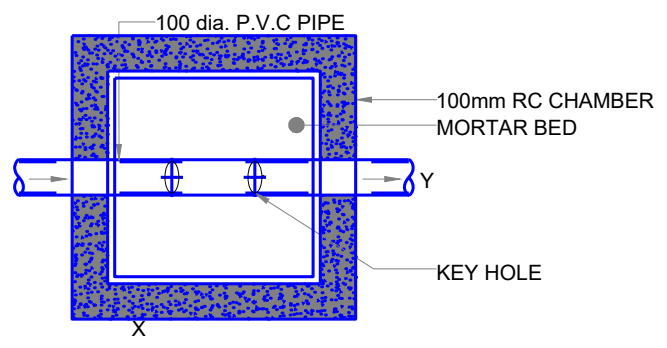
DRAWING TITLE:
PROPOSED HYDRAULICS DETAILS

DESIGN:	SP
DRAWN:	RA
QA:	NP
SCALE:	NTS
DATE:	180123
STATUS:	TENDER ISSUE

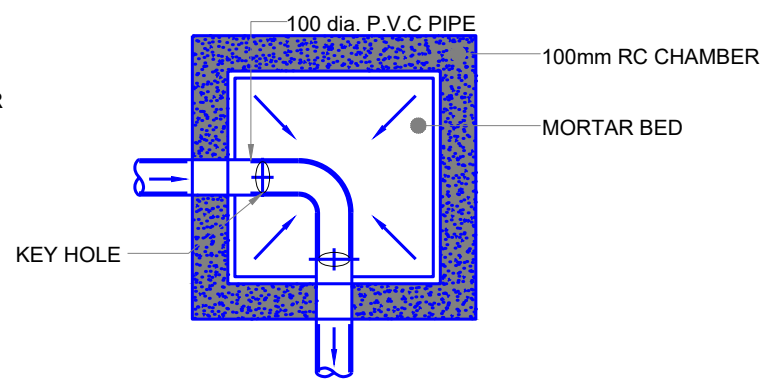
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SHEET NO:	H500	SIZE:	A3	REVISION:	T1



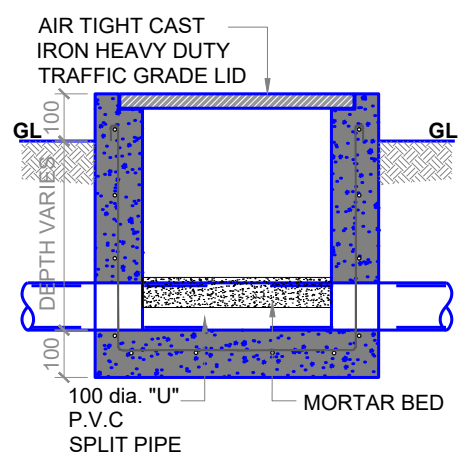
1 WATER PUMP - SECTION A
H501 SCALE: NTS



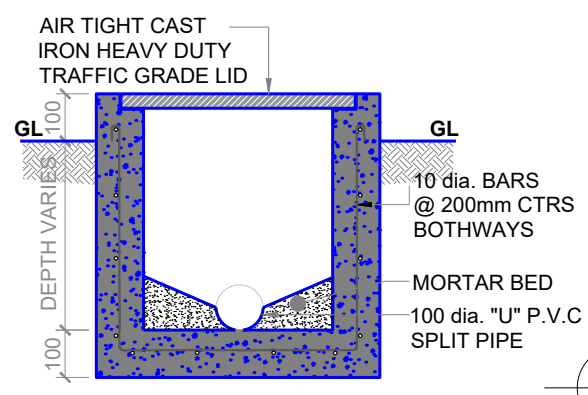
2 INSPECTION CHAMBER PLAN - IC-01
H501 SCALE: NTS



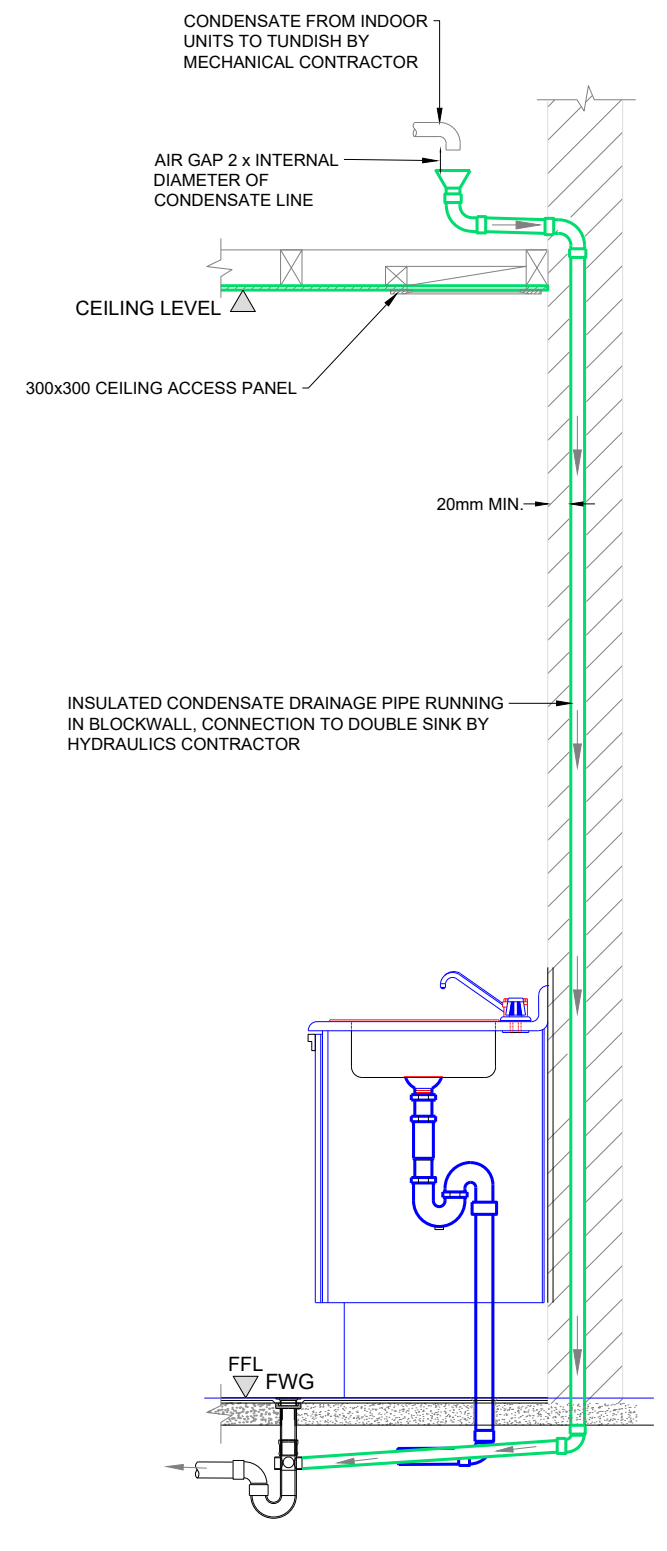
3 INSPECTION CHAMBER "L" PLAN - IC-02
H501 SCALE: NTS



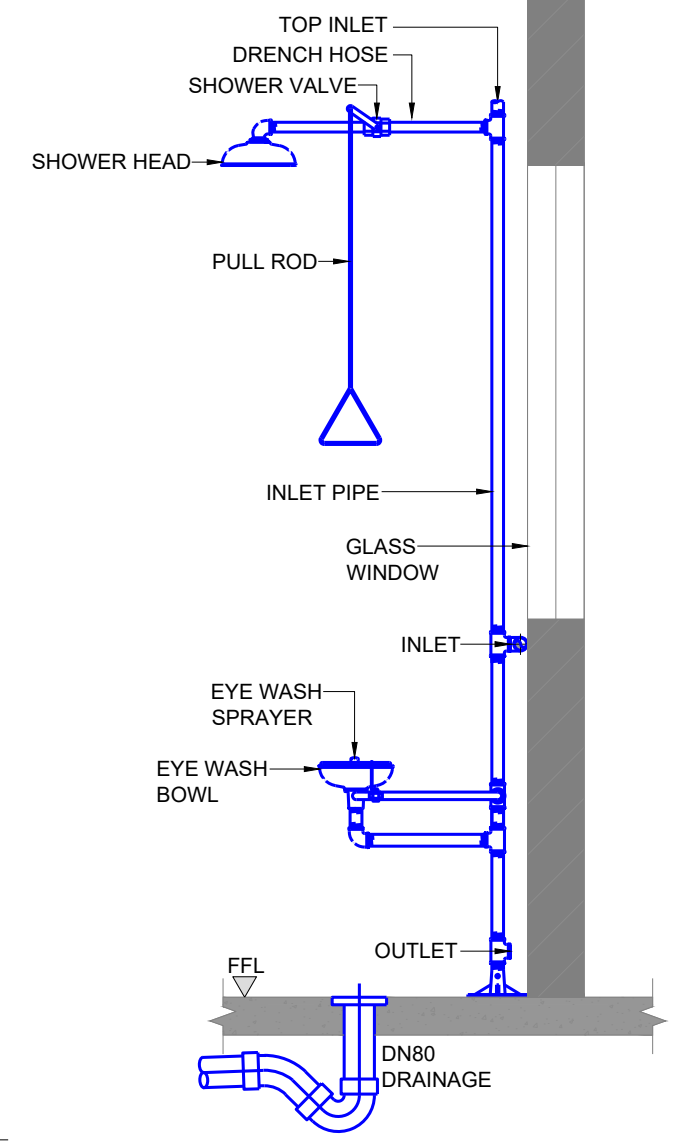
4 INSPECTION CHAMBER - SECTION Y
H501 SCALE: NTS



5 INSPECTION CHAMBER - SECTION X
H501 SCALE: NTS



6 PROPOSED CONDENSATE PIPE DISCHARGE DETAIL
H501 SCALE: NTS



7 PROPOSED EMERGENCY SHOWER AND WASH BASIN DETAIL
H501 SCALE: NTS

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Communauté du Pacifique

T1	180123	TENDER ISSUE
NO.	DATE:	REVISION:

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

DRAWING TITLE: **PROPOSED HYDRAULICS DETAILS**

DESIGN:	SP
DRAWN:	RA
QA:	NP
SCALE:	NTS
DATE:	180123
STATUS:	TENDER ISSUE

PROJECT NO:	3885
AUTOCAD FILE NO:	3885-H501-T1
SHEET NO:	H501
SIZE:	A3
REVISION:	T1

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