

**GENERAL**

**G1.** These drawings shall be read in conjunction with all Architectural and other Consultants' drawings, Specifications and with such other written instructions as may be issued during the course of the Contract. Any discrepancy shall be referred to the Superintendent for decision before proceeding with the work.

**G2.** All dimensions are in millimetres. Dimensions shall NOT be obtained by scaling the Structural Drawings. Levels shown on the Structural Dwg are to the top of structural conc. or structural steelwork unless noted otherwise.

**G3.** Setting out dimensions shown on the drawings shall be verified by the Builder.

**G4.** During construction the structure shall be maintained in a stable condition & no part shall be overstressed. Temporary bracing shall be provided by the Builder as required.

**G5.** All workmanship and materials shall be in accordance with the requirements of the SAA and NZS Codes and the By-Laws and ordinances of the relevant building authorities.

**G6.** Refer to Architectural Drawings for block wall thicknesses where not mentioned on these Dwg's & for falls in slabs, extra packings, waterproofing membranes, contraction joint filling materials and all other architectural features such as drip grooves, pour breaks in off-form concrete, fillets and the like.

**G7.** The structural work shown on these dwgs has been designed for the following exposure classification for durability.

ELEMENT	FIRE-RESISTANCE RATING

**G8.** The structural work shown on these dwgs has been designed for the following live loads in accordance with NZS 4203.

FLOOR USAGE	LIVE LOAD (Kpa)

**NOTE:** A superimposed dead load of 1.0kPa has been allowed for partitions & services.

**G9.** The structural work shown on these drawings has been designed for the following wind load in accordance with AS 1170 Part 2.

BASIC WIND VELOCITY	TERRAIN CATEGORY
57m/s	Vp = 2

**G10.** The structural work shown on these dwgs has been designed for Earthquake loads in accordance with NZ 4203:1992 with Zone factor Z = 0.9.

**FOUNDATION**

**F1.** Footings have been designed for an allowable intensity or bearing pressure of:

ELEMENT	STRATA	BEARING PRESSURE
ALL	NATURAL GROUND	150 kPa

**CONCRETE**

**C1.** All workmanship and materials shall be in accordance with NZS 3109 PART 1 current edition with amendments, except where varied by the Contract Documents.

**C2.** Concrete Quality:-

ELEMENT	SLUMP	CONC. TYPE	MAX. AGG. SIZE	MIN. CONC. STRENGTH F'c MPa
Footings	80	A	20	25 MPa
Slabs on grd.	80	A	20	25 MPa
Columns	80	A	20	30 MPa
Suspended flr.	80	A	20	30 MPa

**C3.** Clear concrete cover to reinforcement shall be as indicated on drawings or the table below (U.N.O)

**SLAB SYMBOL**

150 - Denotes slab thickness  
20 - Denotes cover to T. & B reinf.

150 - Denotes slab thickness  
30 - Denotes cover to top reinf.  
20 - Denotes cover to btm. reinf.

**CONCRETE CONT.**

Refer to slab notes for general slab thickness and covers. This symbol applies elsewhere.

ELEMENT	CONCRETE COVER		
	Cast against & exposed to earth	Exposed to earth or weather	Not exposed to weather or earth
a) Pad footings	75	-	-
b) Strip footings	75	-	-
c) Slabs, walls, & ribs 20mm bars or wire and smaller	75	35	20
d) Longitudinal reinf. Beams	80	50	40
Ties and stirrups	65	40	25
e) Longitudinal reinf. Columns	80	50	40
Ties and stirrups	65	40	25

**C4.** Sizes of conc. elements do not include thickness of applied finishes.  
**C5.** Construction joints where shown on the Structural Dwg's shall be well scabbled and painted with epoxy prior to pouring of fresh conc.

**C6.** Construction joints where not shown shall be located to the approval of the Engineer.

**C7.** Beam depths are written first and include slab thickness, if any.

**C8.** No penetrations, recesses, sleeves, etc other than those shown on the Structural Dwg's, shall be made in concrete members without the prior approval of the Engineer.

**C9.** Pipes or conduits shall not be placed within the conc. cover to reinforcement without the approval of the Engineer. The concrete cover to embedded pipes or conduits shall be a min. of 20 mm.

**C10.** Provide 20 chamfers to all columns and beams unless varied by architects drawing.

**C11.** Provide 20 drip grooves to soffits of all external slabs & beams.

**C12.** Lay under floor slabs on ground (0.006mm) 150 micron visqueen D.P.C or approved equivalent water-proof membrane over sand blinding

**REINFORCEMENT**

**R1.** Reinf. is represented diagrammatically. It is not necessarily shown in true projection.

**R2.** Splices in the reinf. shall be made only in the positions shown. The written approval of the Engineer shall be obtained for any other splices. Lap length for deformed bars shall be as tabulated below.

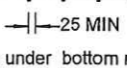
BARS TYPE & SIZE	VERTICAL BARS	HORIZ BARS WITH MORE THAN 300mm CONC. BELOW BAR	OTHER LOCATIONS	90 COG LENGTH
D12	500	550	500	200
D16	700	800	700	200
D20	1000	1250	1000	200
D24	1200	1500	1200	250
D28	1400	1750	1400	300
D32	1600	1900	1600	350
D36	1700	2200	1700	450

Stagger laps as much as practicable. Top steel shall be lapped within central half of the of the beam span & bottom beam bars within 1/4 on either side of support uno.

For plain bars, lap lengths shall be twice the lengths as shown above.

**R3.** Welding of reinforcement will not be permitted unless shown on the Structural Drawings.

**R4.** All reinforcement fabric shall comply with NZS 3402P and shall be supplied as flat sheets.

Typical Fabric Lap:-  25 MIN

**R5.** Place sufficient bar chairs under bottom reinforcing rods and top crossrods in slabs to allow them to be supported in their correct positions during concreting (not greater than 900 mm centres both ways).

**R6.** Reinforcement Layers denoted thus:-  
TT - Denotes top bars laid last  
T - Denotes top bars laid third  
B - Denotes bottom bars laid second  
BB - Denotes bottom bars laid first

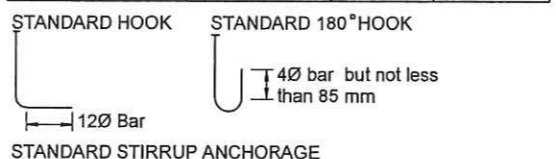
**KEY:**  
R - Round Mild  
D - Deformed  
XD } 500 Grade Deformed  
HD }

**REINFORCEMENT**

**R7.** Bending of reinforcement  
Bars partially embedded in conc. shall not be site bent, unless noted or shown on the drawings or specifically approved by the ENGINEER

The min. internal dia. of bend of all bars shall be as follows UNO.

MINIMUM DIAMETER OF BEND				
STEEL GRADE	MAIN REINFORCEMENT		STIRRUPS & TIES	
	BAR DIA.	MIN. DIA. OF BEND	BAR DIA.	MIN. DIA. OF BEND
GRADE 300	6	30	6	24
	10	50	10	40
	12	60	12	48
	16	80	16	64
	20	100	20	80
	24	120		
	28	140		
	32	192		
40	240			



**STEELWORK**

**S1.** All workmanship and materials shall be in accordance with AS 4100 & AS 1554 except where varied by the Contract Documents.

**S2.** Unless otherwise noted, all steel shall be in accordance with:-  
AS 1204 Grade 250 for Rolled Sections  
AS 1163 Grade 250 for R.H.S. Sections  
AS 1163 Grade 200 for C.H.S. Sections  
AS 1204 Grade 350 for all high strength steel.

**S3.** The builder shall prepare workshop dwgs & shall submit 3 copies of each drawing for approval. Fabrication shall NOT commence until approval has been received. Approval does not include dimensions.

**S4.** Unless noted otherwise, all bolts to be 16 diameter commercial grade structural bolts of grade 4.6 snug tight (M16-4.6/S) conforming to AS 1111.

Bolts - designated by the Number, Diameter, Grade & Tightening procedure.  
Example: 4M16-4.6/S means 4 16 dia. commercial grade bolts snug tight.

6M20 - 8.8TF means 6M20 high strength structural bolts fully tensioned in a friction joint.

6M24 - 8.8TB means 6M24 high strength structural bolts fully tensioned in a bearing joint. (Some slip allowed.)

All holes shall be drilled and shall be 2mm larger than the bolt Ø U.N.O. Holes in baseplates may be 5mm larger than the bolt Ø U.N.O. All bolts shall have at least one thread projecting through both sides of the nut.

Bolt spacing, edge distances, gauge lines, beam copes etc, to conform to A.I.S.C standardised connections U.N.O. Remove all sharp edges and burrs.

**S5.** Unless otherwise noted, all welds to be 6 mm continuous fillet from E41XX electrodes. All welds shall be general purpose welds unless noted otherwise. Structural purpose welds shall be denoted thus "SP". Butt welds where indicated in the dwgs are to be complete penetration butt welds as defined in AS 1554. Welding symbols to AS 1101 Part 3.

**S6.** Concrete encased steelwork shall be wrapped with 665 mesh & have a minimum of 50 cover unless noted otherwise.

**S7.** High strength friction grip bolts, nuts & washers shall comply with the relevant requirements of AS 1252, shall be installed in accordance with AS 1511 and shall be tightened to the correct tension using approved load indicating washers. Contact surfaces of all high strength friction grip bolted connections shall be left unpainted.

**STEELWORK CONT.**

**S8.** Structural steelwork shall have the surface treatment in accordance with the specification.

ELEMENT	SURFACE CLEANING	PRIMING
All UNO	Sand blast to class 2.5	Dulux zincanode 304 (or equal) 75 micron minimum dry film thickness

**S9.** NOTE: Concrete encased steelwork shall be left unpainted.  
The builder shall provide all cleats and drill all holes necessary for fixing steel to steel and timber to steel whether or not detailed in the drawings.

**S10.** All the requirements of the A.C.S.E. Structural Steel Specification Document 2 shall apply.

**S11.** All fixing devices bolts, brackets etc shall be hot dipped galvanised

**BLOCKWORK**

**B1.** All workmanship and materials shall be in accordance with NZS 4210.

**B2.** Strengths of blocks and type of mortar shall be as follows:

ELEMENT	MATERIAL	Strength (cs) Or Class	MORTAR TYPE
Blockwork	Conc. Block	12 MPa	1:0.25:3

**B3.** Reinforced concrete blockwork shall comply with the following U.N.O.:-  
Blocks shall be 12 MPa conforming to NZS 3102.  
Mortar shall comprise 1 cement: 0.25 lime: 3 sand.

Provide cleanout holes at base of all walls and rod core holes to remove protruding mortar fins.

Provide 55mm minimum cover from the outside of the blockwork to allow adequate grout cover.

**B4.** Minimum strength and type of grout shall be as follows:

ELEMENT	MINIMUM STRENGTH	TYPE
Core Fill	17.5 MPa	3:8:4.

Core fill shall comply with the following U.N.O.  
It shall have a minimum compressive strength of 17.5 MPa when tested in accordance with Section 6 of NZS 3112: Part 2.

It shall have a spread value within the range of 450mm to 580mm when tested in accordance with Section 11 of NZS 3112: Part 1.

Core fill to comprise of 3 cement: 8 concreting sand: 4 core fill aggregate 13.2 - 4.75mm.

Where core fill grout is to be site mixed a test mix will be produced for sampling and compression testing in accordance with NZS 3112: Part 2. The compressive strength of this test mix to be 25MPa minimum to allow for site variations.

**B5.** No masonry walls are to be erected on suspended slabs or beams until all propping has been removed.

**B6.** Builder to provide temporary propping to all walls where required for stability during construction.

**B7.** Backfill to retaining walls to be free draining granular material. Provide subsoil drain or weep holes.

**B8.** Blockwork Reinforcement  
200 Blockwork :  
Vertically at corners, sides of openings, end of walls, intersections and at 600 crs max. with 16Ø Horizontally at top of walls, top & bottom of openings & at every 3rd course max. with 16Ø in knock out bond block.

150 Blockwork :  
Vertically at corners, sides of openings, ends of walls, intersections and at 600 crs max. with 12Ø Horizontally at top of walls, top & bottom of openings & at every 3rd course max. with 16Ø in knock out bond block.

100 Blockwork :  
Vertically as for 150 blockwork but with 10Ø Horizontally as for 150 blockwork but with 2R6 Pass all horizontally through columns. Concrete fill all block cavities.

**TIMBER**


**T1.** All workmanship shall be done in accordance with AS 1720.1 SAA Timber Structures Codes.

**T2.** All timber shall be No. 1 framing grade as defined in National Grading Rules for Fiji Timbers.

**T3.** All timber shall be FIJI PINE F7 Stress Grade or equivalent unless noted otherwise.

**T4.** Unless noted otherwise all bolts in timber construction to be 16Ø commercial bolts of grade 4.6 snug tight (M16-4.6/S) conforming to AS 1111 with washers as specified.

**T5.** End and edge distances for bolts where not specified shall be in accordance with the provisions of AS 1720.1.

**NOTE**  
Details and Sections on these drawings are cross-referenced by the following system:-  
Section or Detail No.  Sheet No., Where Section or Detail is drawn.

**DRAFTING ABBREVIATIONS**

ALT	Alternate
APPROX.	Approximate
ADDN	Additional
B	Bottom
BLK	Blockwall
B/W	Bothways
C/L	Centre Line
C/C	Centre To Centre
C/S	Courses
C.A.R	Cover All Around
CHS	Circular Hollow Section
C.J	Control Joint
COL	Column
CONC.	Concrete
CONN.	Connection
C.O.S.	Check On Site
CVR	Cover
CRS	Centres
D	Deformed Bar Grade 300
BD	Bar Diameter
DIA	Diameter
DJ	Dowelled Joint
DPC	Damp Proof Course
DWG/DRG	Drawing
EGL	Existing Ground Level
EXTG	Existing
EX	Each Face
EW	Each Way
ELEV	Elevation
EX	Out Of
FF	Far Face
FFL	Finished Floor Level
FGL	Finished Ground Level
FL	Flat
GALV.	Galvanised
G.L	Ground Level
G.P.C.	Grout Proof Course
HOR.	Horizontal
I.D	Inside Diameter
K.J	Keyed Joint
L.A.R	Lap At Random
L	Single RSA
L	Double RSA (back to back)
LG	Long
MAX.	Maximum
MIN.	Minimum
MS	Mild Steel
N	New
NOT	Non-destructive Testing
NF	Near Face
NTS	Not To Scale
O/A	Outside Overall
O.D	Outside Diameter
PL	Plate
PC	Precast Concrete
PSC	Prestressed Concrete
R	Plain Bar Grade 300
RC	Reinforced Concrete
REINF	Reinforcement
RHS	Rectangular Hollow Section
RL	Reduced Level
RSA	Rolled Steel Angle
RSC	Rolled Steel Channel
R.S.J	Rolled Steel Joist
STIFF	Stiffener
SIM	Similar
SJ	Sawcut Joint
SL	Slagger
STR	Start
STR	Start
SYM	Symbol
T	Top
TFB	Top Flange Bearing
THK	Thickness
TOC	Top Of Concrete
TOS	Top Of Steel
TRM	Trim
TYP	Typical
UB	Universal Beam
UC	Universal Column
UNO	Unless Noted Otherwise
VERS	Vertical
VJ	Vertical Joint

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.



ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS  
26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS  
PH. - 3400 287, FAX. - 3400 185  
Email: designhut@connect.com.fj

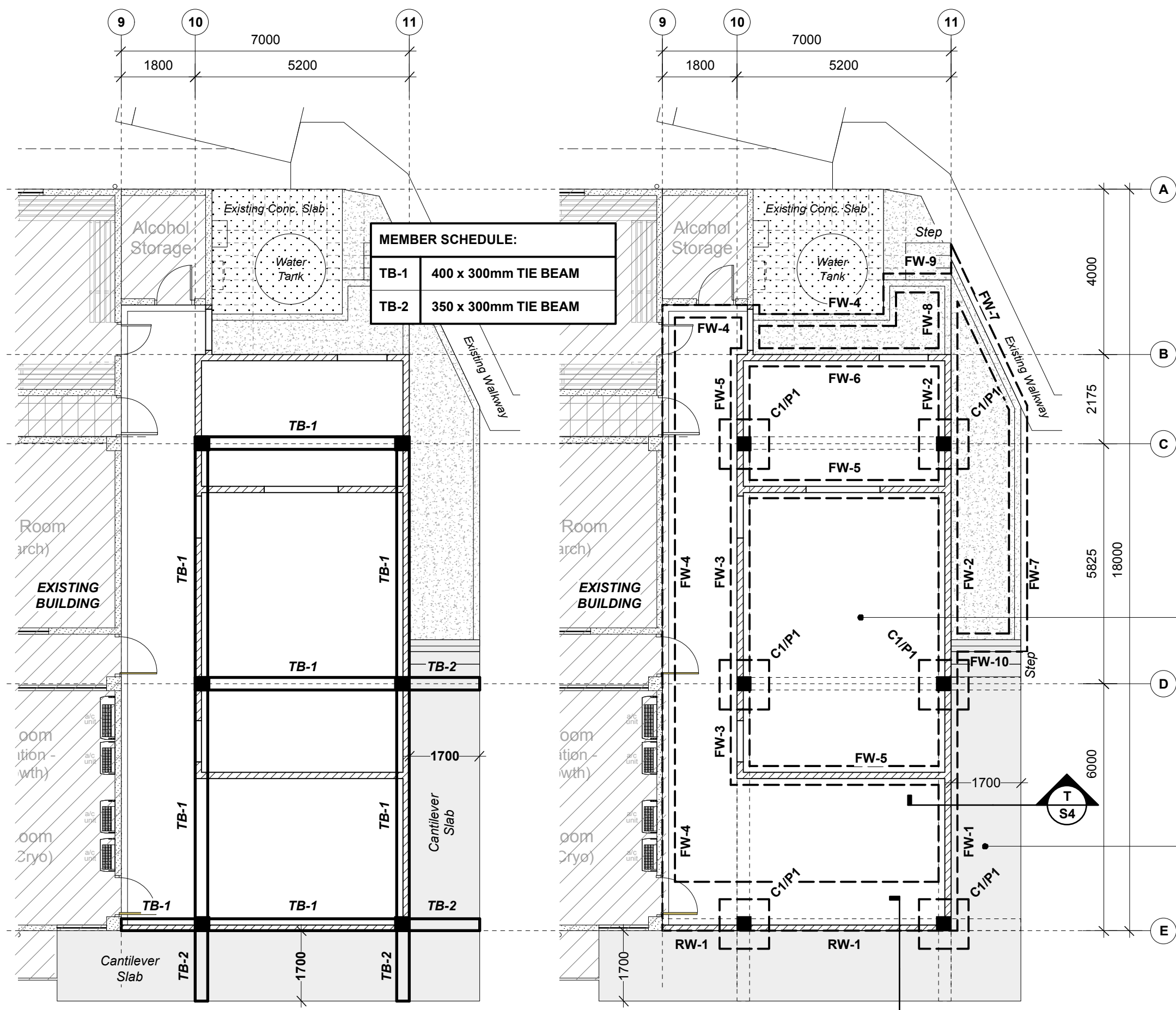
REV.	NOTES	DATE

PROJECT  
**PACIFIC COMMUNITY**  
**PROPOSED EXTENSION TO EXISTING BUILDING - CRYOGENIC LAB**  
FNTC ROAD 2, NARERE, NASINU.

SHEET TITLE  
**STRUCTURAL NOTES**

DESIGN : S.P	PROJECT NO. 22-014
DRAWN : D.C	SHEET NO. <b>S0</b>
DATE : 24.08.22	
SCALE : AS SHOWN	REV.

- NOTE:**
1. GROUND TO BE INSPECTED BY THE ENGINEER AFTER EXCAVATION FOR VERIFICATION. STEEL NOT TO BE FABRICATED UNTIL GROUND HAS BEEN APPROVED BY THE ENGINEER.
  2. LAY UNDER FLOOR SLABS ON GROUND (0.006MM) 150 MICRON VISQUEEN DPC OR APPROVED EQUIVALENT WATER - PROOF MEMBRANE OVER SAND BLINDING.
  3. FOUNDATION PLAN TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS FOR PROPER SET OUT OF STEP-DOWNS, FALLS AND DOOR/WINDOW OPENINGS. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY SET OUT DISCREPANCIES.



**MEMBER SCHEDULE:**

TB-1	400 x 300mm TIE BEAM
TB-2	350 x 300mm TIE BEAM

100mm thick concrete slab with 1 layer 665 mesh on plastic rebar chairs at 1m sq. grid max. (with 30mm top cover)

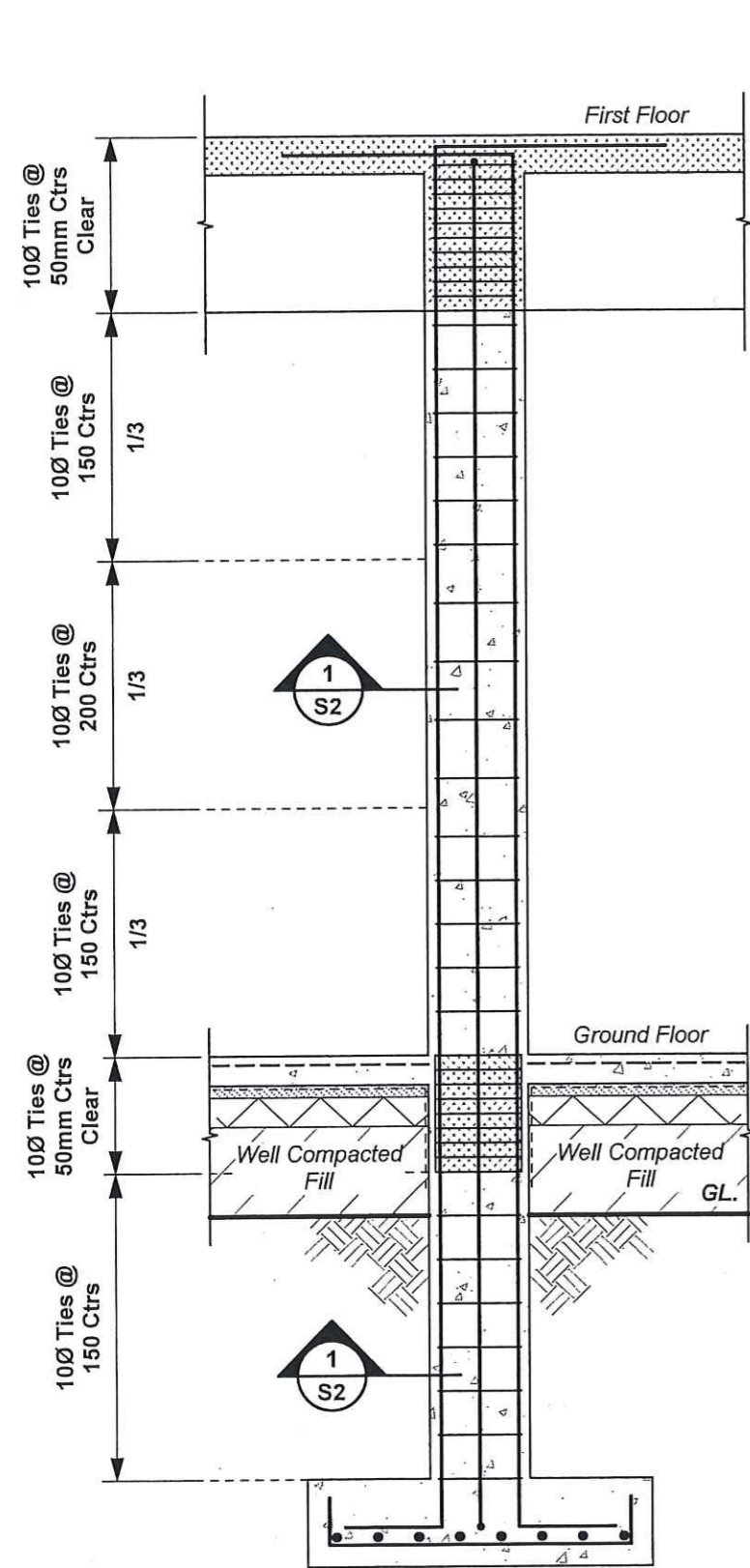
150mm thick cantilever concrete slab reinf. with 12 dia. bars @ 200 ctrs bothways top and bottom steel

**TIE BEAM LAYOUT PLAN**  
SCALE 1:100

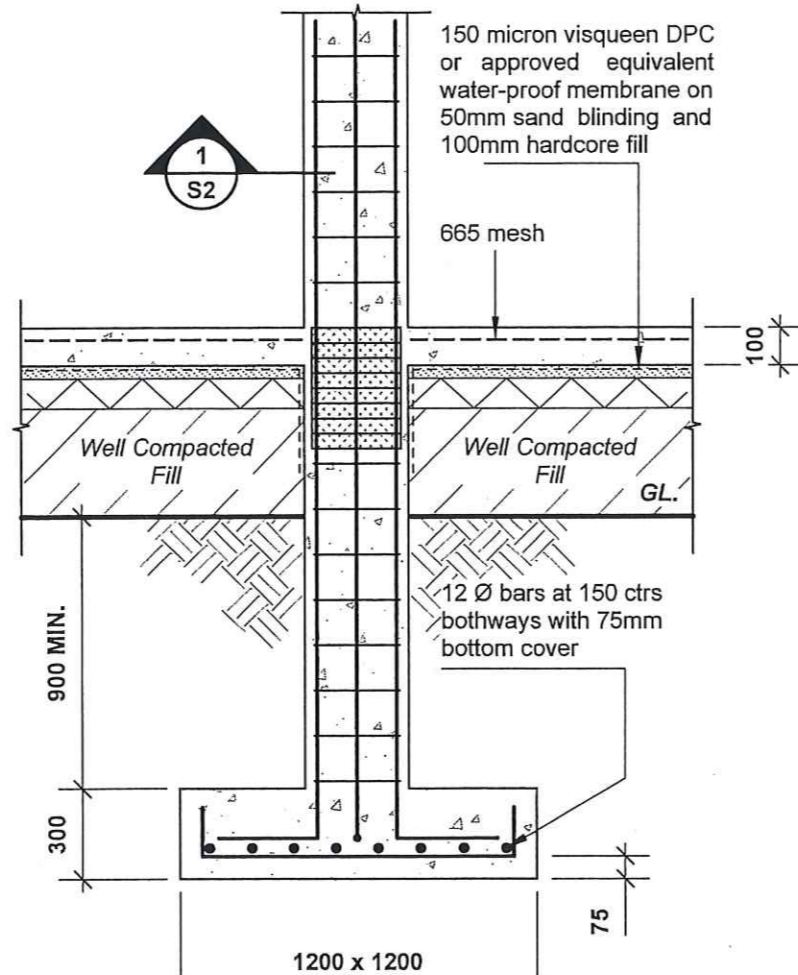
**FOUNDATION PLAN**  
SCALE 1:100

**TENDER ISSUE**  
**22.06.23**

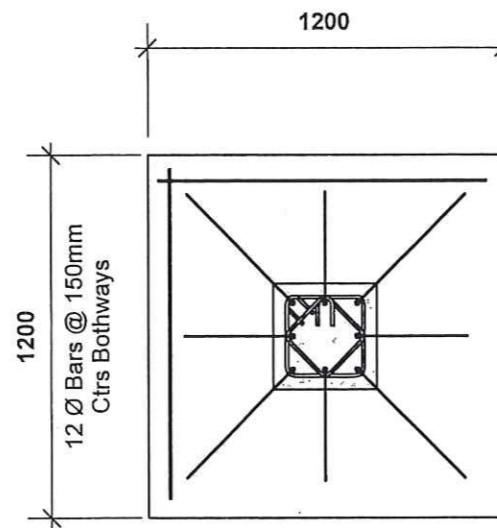
Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.	 ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS 26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS PH. - 3400 287, FAX. - 3400 185 Email : designhut@connect.com.fj	REV.	NOTES	DATE	PROJECT <b>PACIFIC COMMUNITY</b> <b>PROPOSED EXTENSION TO EXISTING BUILDING - CRYOGENIC LAB</b> FNTC ROAD 2, NARERE, NASINU.	SHEET TITLE <b>FOUNDATION PLAN</b>	DESIGN : S.P	PROJECT NO. 22-014
							DRAWN : R.M/D.C	SHEET NO. <b>S1</b>
							DATE : 24.08.22	
							SCALE : AS SHOWN	REV.



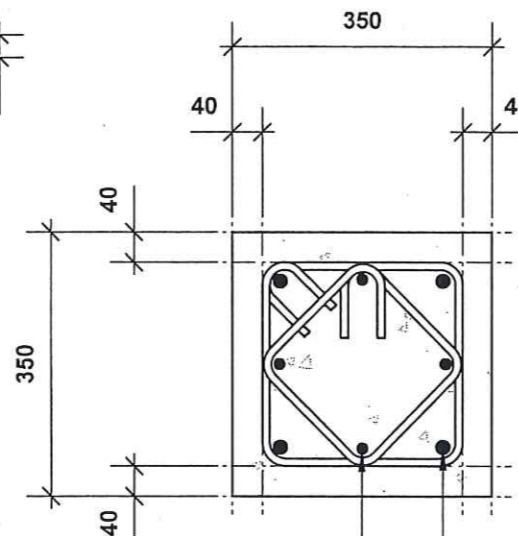
**COLUMN ELEVATION - C1**  
SCALE 1:25



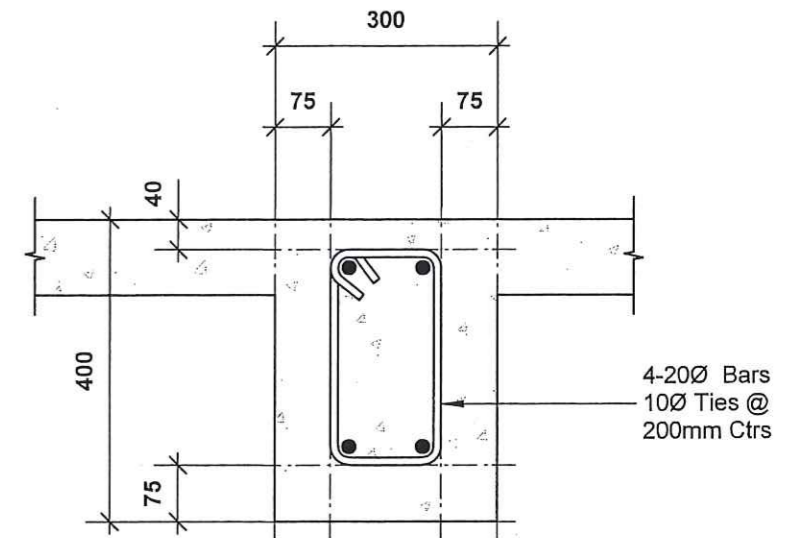
**PAD ELEVATION - P1**  
SCALE 1:25



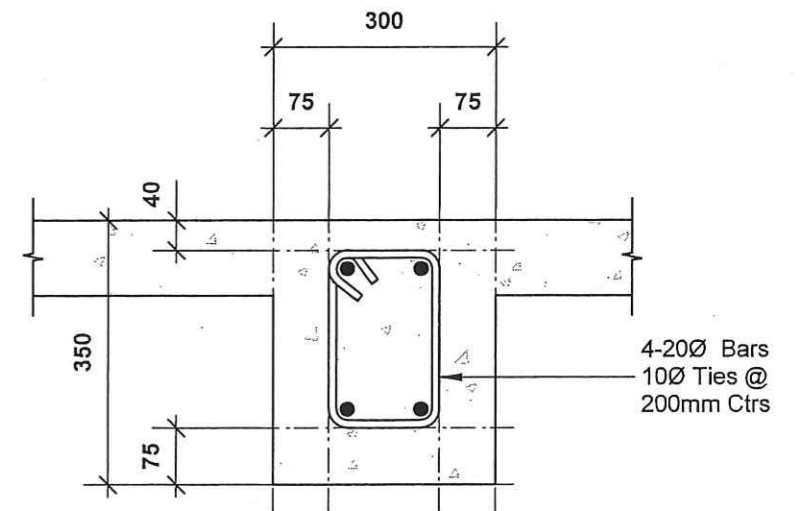
**PAD PLAN - P1**  
SCALE 1:25



**COLUMN SECTION** 1  
SCALE 1:10 S2



**400 x 300mm TIE BEAM DETAIL - (TB-1)**  
SCALE 1:10



**350 x 300mm TIE BEAM DETAIL - (TB-2)**  
SCALE 1:10

Structures Checked for Safety & Soundness by:  
 Krishneel Sanjay Ram of ISOTECT ENGINEERS (FIJI) PTE LTD  
 Chartered & Registered Professional Engineer -  
 Civil & Structural & Environment (Fiji, Australia & New Zealand)  
 B. Tech Civil - India, B. Eng. in Civil Engg - Fiji CMEngNZ CPEng IntPE(NZ) / APEC Engineer,  
 MIEAust CPEng NER APEC Engineer IntPE(Aus), MFI, MASCE, MCSCE, MJSCE & GMICE  
 SIGN: [Signature] DATE: 20/08/22

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.

**design**  
 ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS  
 26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS  
 PH. - 3400 287, FAX. - 3400 185  
 Email : designhut@connect.com.fj

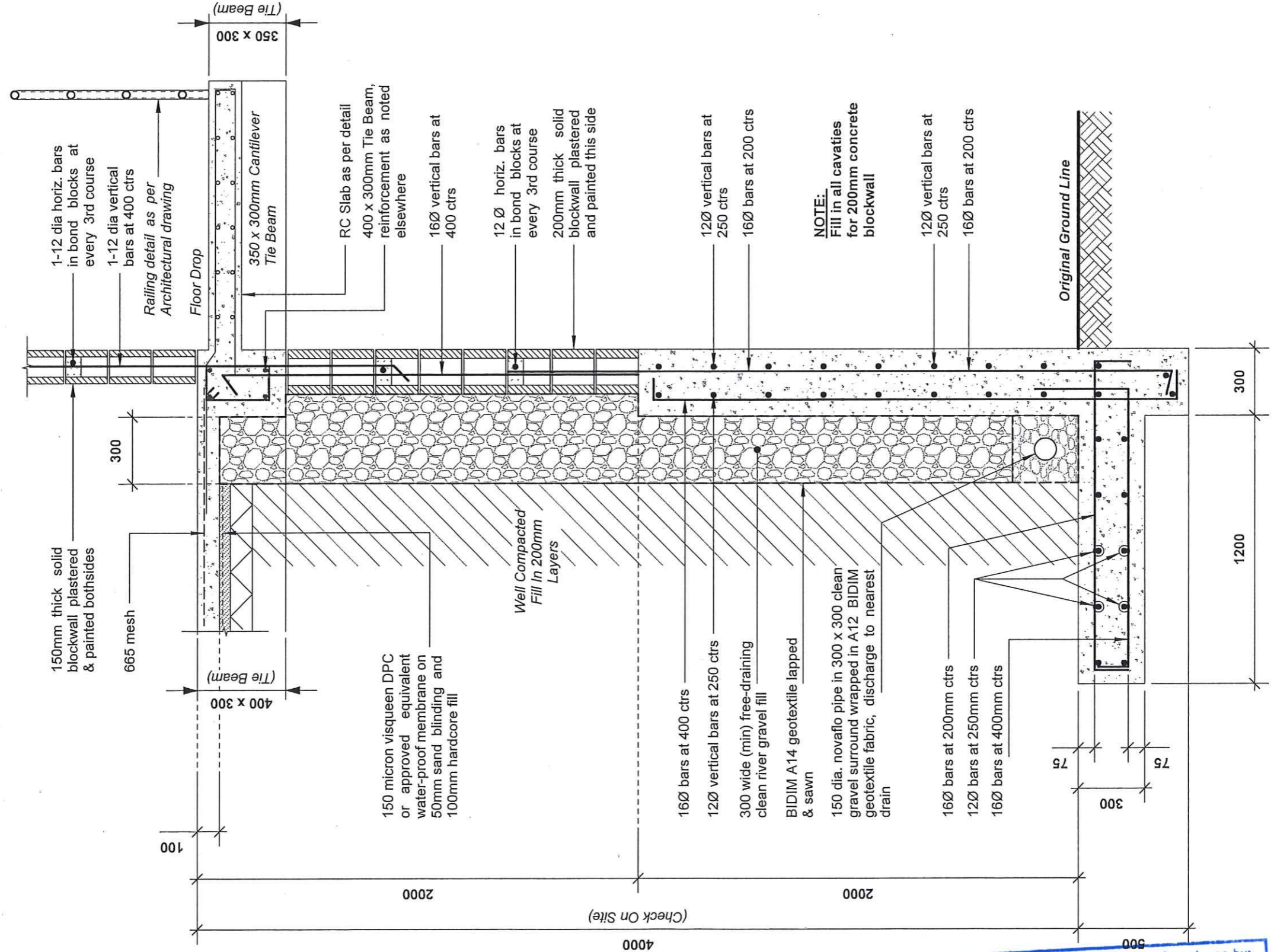
REV.	NOTES	DATE

PROJECT  
**PACIFIC COMMUNITY**  
**PROPOSED EXTENSION TO EXISTING**  
**BUILDING - CRYOGENIC LAB**  
 FNTC ROAD 2, NARERE,  
 NASINU.

SHEET TITLE  
**COLUMN ELEVATION**  
**& PAD DETAILS**

DESIGN : S.P	PROJECT NO. 22-014
DRAWN : D.C	SHEET NO. <b>S2</b>
DATE : 24.08.22	
SCALE : AS SHOWN	REV.

**NOTE:**  
ALL BLOCKWORK TO  
BE FULLY GROUTED



**RW-1**  
SCALE 1:20

**Structures Checked for Safety & Soundness by:**  
**Krishneel Sanjay Ram of ISOTECT ENGINEERS (FIJI) PTE LTD**  
 Chartered & Registered Professional Engineer -  
 Civil & Structural & Environment (Fiji, Australia & New Zealand)  
 B. Tech Civil - India, Dip. in Civil Engg - Fiji CMEngZ CPEng IntPEINZ / APEC Engineer,  
 MEAust CPEng NER APEC Engineer IntPE(Aus), MFIE, MASCE, MSCSE, MJSCE & GMICE  
 SIGN: *[Signature]* DATE: 20/08/22

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.

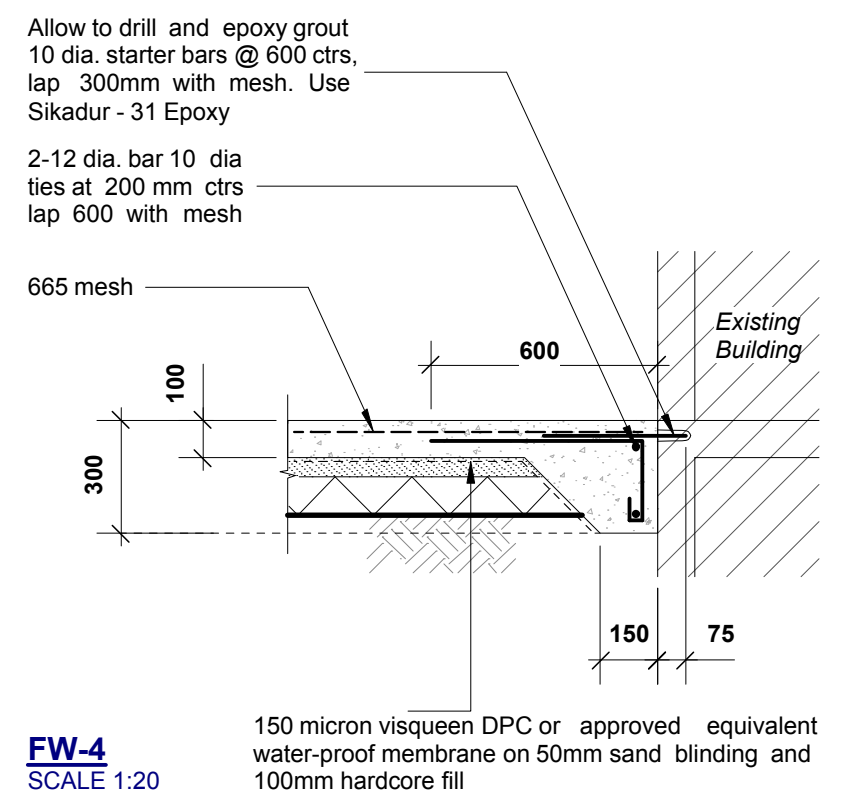
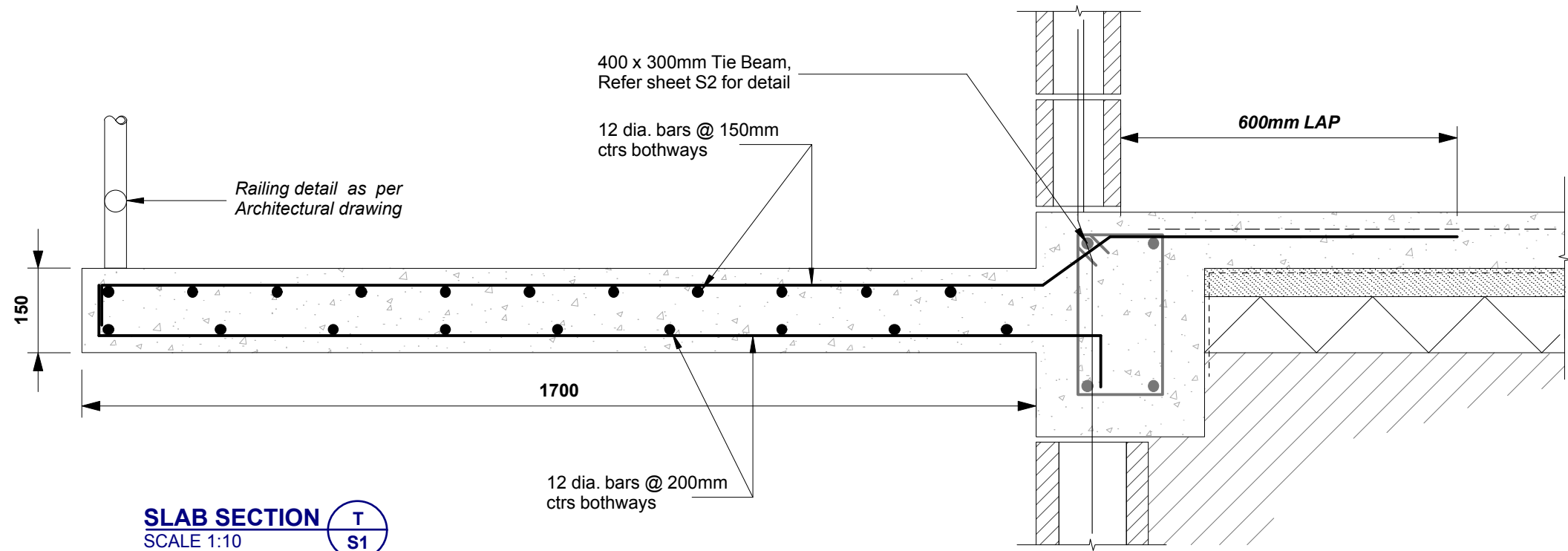
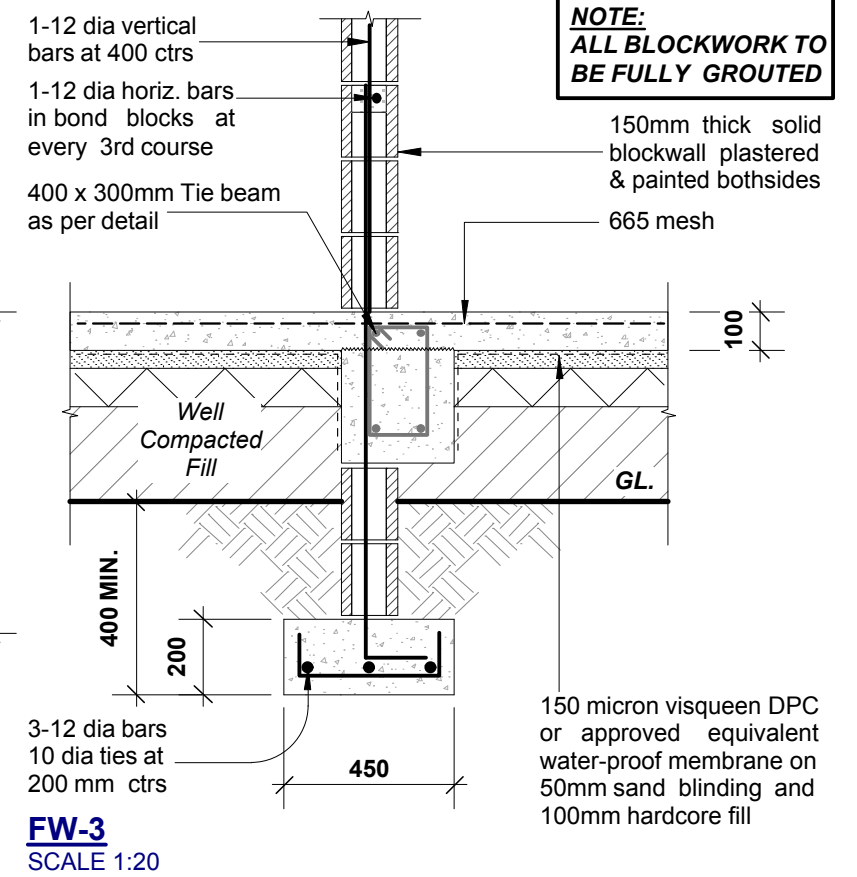
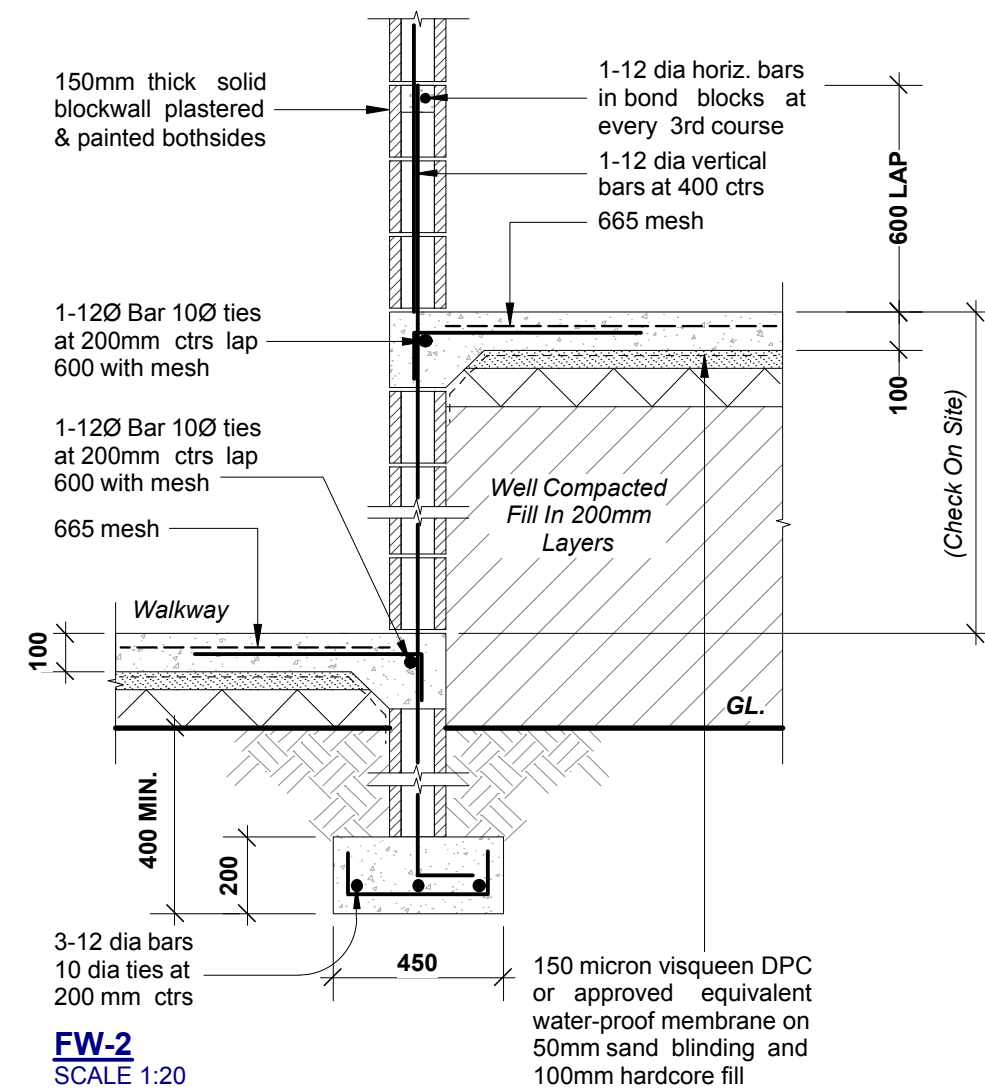
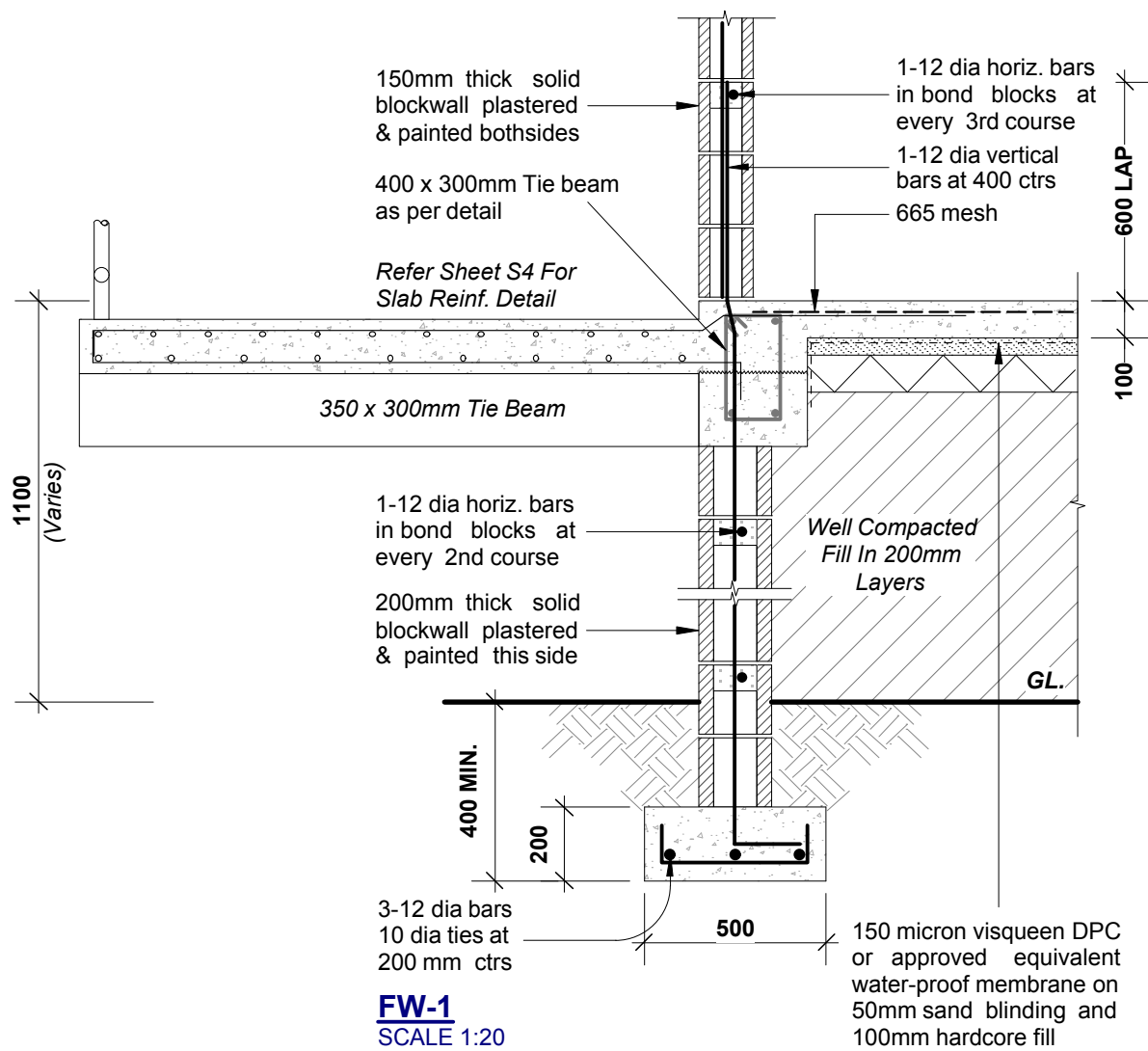
**design**  
 ARCHITECTS DESIGN CONSULTANTS PROJECT MANAGERS INTERIOR DESIGNERS  
 26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS  
 PH. - 3400 287, FAX. - 3400 185  
 Email: designhub@connect.com.fj

PROJECT  
**PACIFIC COMMUNITY  
 PROPOSED EXTENSION TO EXISTING  
 BUILDING - CRYOGENIC LAB**  
 FNTC ROAD 2, NARERE,  
 NASINU.

SHEET TITLE  
**RETAINING WALL  
 DETAIL**


DESIGN : S.P  
 DRAWN : D.C  
 DATE : 24.08.22  
 SCALE : AS SHOWN

PROJECT NO. 22-014  
 SHEET NO. **S3**  
 REV.

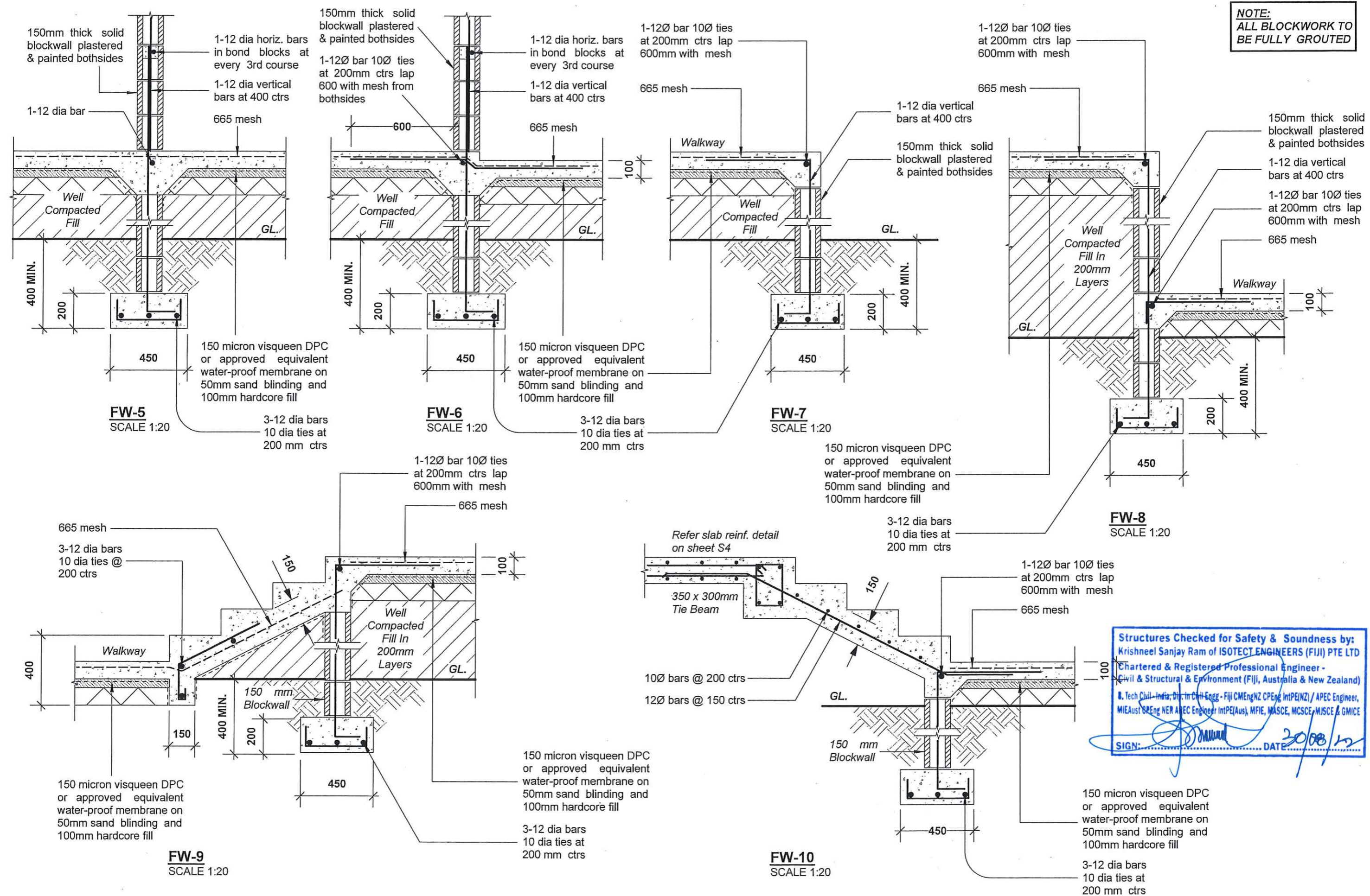


**NOTE:**  
ALL BLOCKWORK TO BE FULLY GROUTED

**TENDER ISSUE**  
**22.06.23**

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.	 ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS 26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS PH. - 3400 287, FAX. - 3400 185 Email : designhut@connect.com.fj	REV.	NOTES	DATE	PROJECT <b>PACIFIC COMMUNITY</b> <b>PROPOSED EXTENSION TO EXISTING BUILDING - CRYOGENIC LAB</b> FNTC ROAD 2, NARERE, NASINU.	SHEET TITLE <b>FOOTING DETAILS</b>	DESIGN : S . P	PROJECT NO. 22-014
							DRAWN : R.M/D.C	SHEET NO.
							DATE : 24.08.22	<b>S4</b>
							SCALE : AS SHOWN	REV.

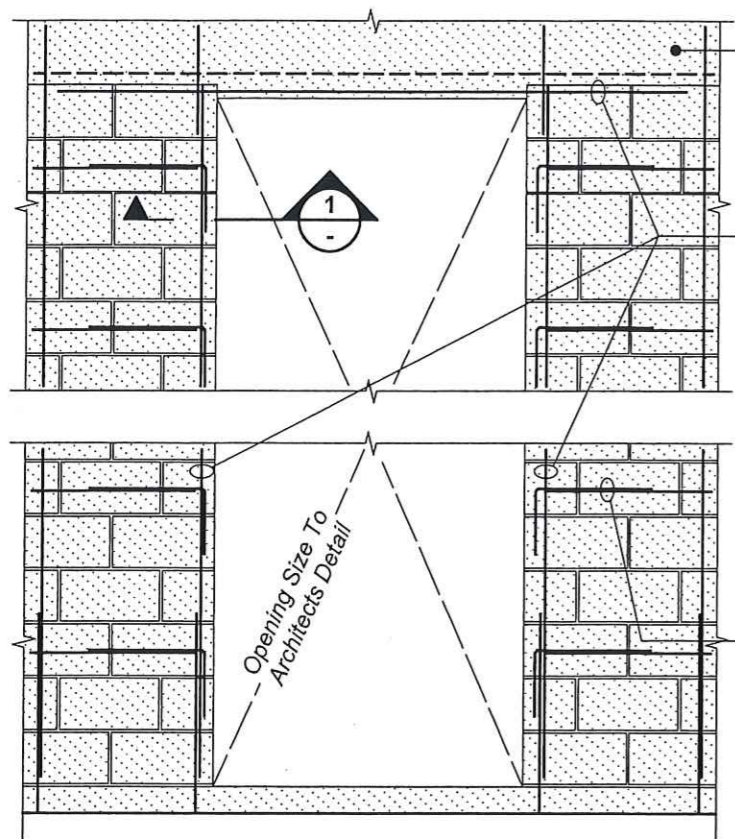
**NOTE:**  
ALL BLOCKWORK TO BE FULLY GROUTED



**Structures Checked for Safety & Soundness by:**  
**Krishneel Sanjay Ram of ISOTECT ENGINEERS (FIJI) PTE LTD**  
 Chartered & Registered Professional Engineer -  
 Civil & Structural & Environment (Fiji, Australia & New Zealand)  
 B. Tech Civil - India, Dip. in Civil Engg - Fiji, CMEngNZ, CPEng, IntPE(NZ) / APEC Engineer,  
 MIEAust, BREng, NER, APEC Engineer, IntPE(Aus), MFIE, MASCE, MCSCE, MISCE & GMICE

SIGN: *[Signature]* DATE: 2008/12

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.	 ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS 26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS PH. - 3400 287, FAX. - 3400 185 Email: designhut@connect.com.fj	REV.	NOTES	DATE	PROJECT <b>PACIFIC COMMUNITY          PROPOSED EXTENSION TO EXISTING          BUILDING - CRYOGENIC LAB</b> FNTC ROAD 2, NARERE, NASINU.	SHEET TITLE <b>FOOTING DETAILS</b>	DESIGN : S.P	PROJECT NO. 22-014
							DRAWN : D.C	SHEET NO. <b>S5</b>
							DATE : 24.08.22	
							SCALE : AS SHOWN	REV.



**TYP. DOOR OPENING DETAIL**  
N.T.S

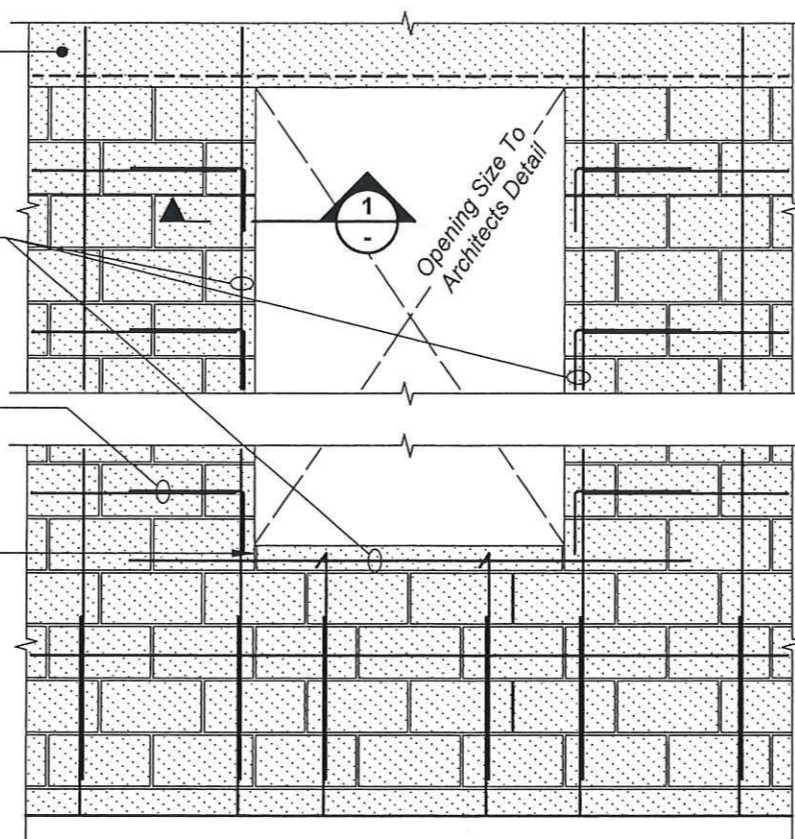
Roof Beam, Detail  
As Noted Elsewhere

12Ø Trim Extra

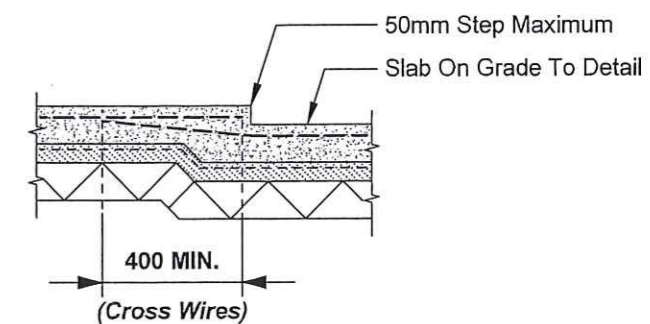
600 Min Lap If  
Starter Required

100 Conc.  
Window Sill

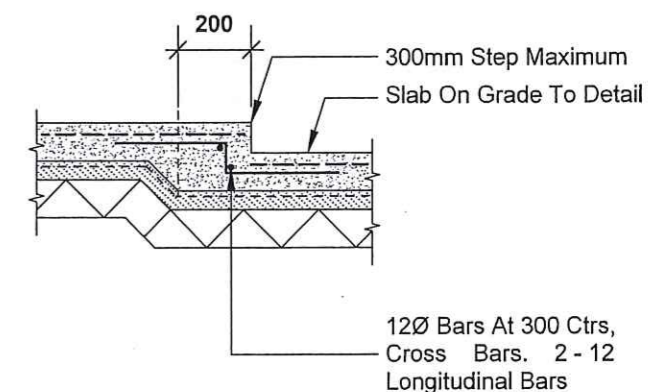
600 Min Lap If  
Starter Required



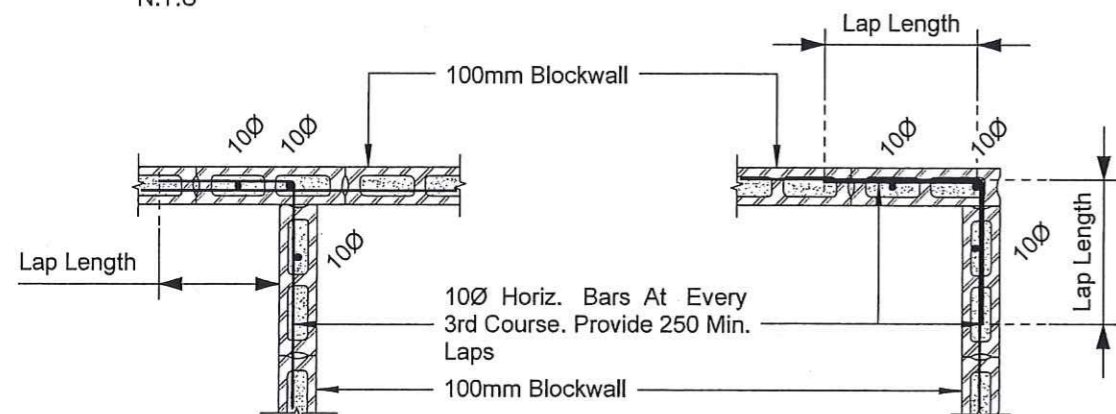
**TYP. WINDOW OPENING DETAIL**  
N.T.S



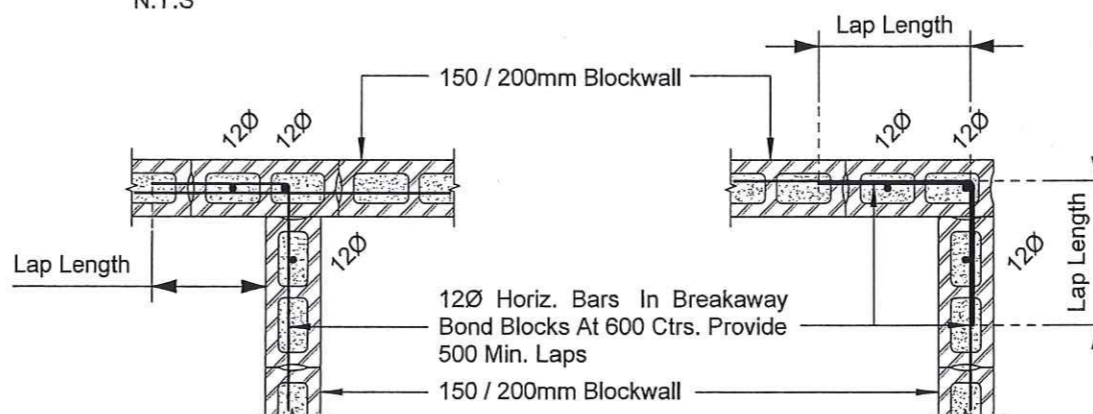
**STEP UP TO 50mm MAXIMUM HIGH**



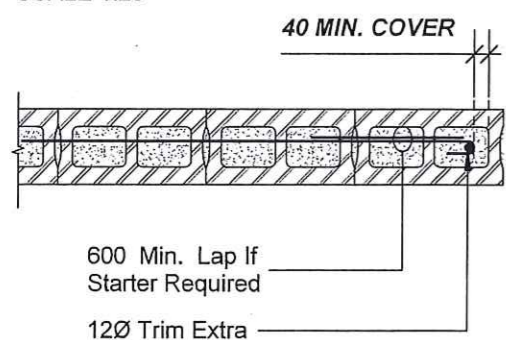
**STEP GREATER THAN 50mm HIGH**  
(300 MAXIMUM)  
TYPICAL FLOOR STEP DETAILS



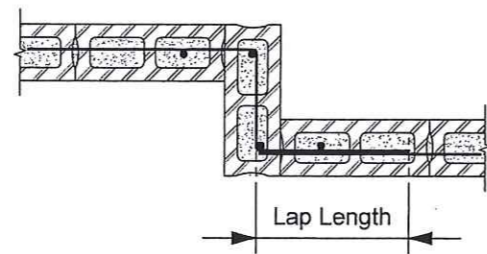
**100mm BLOCKWALL JUNCTION & CORNER BLOCK BINDING DETAIL**  
SCALE 1:20



**150 / 200mm BLOCKWALL JUNCTION & CORNER BLOCK BINDING DETAIL**  
SCALE 1:20



**BLOCKWALL END DETAIL**  
SCALE 1:20

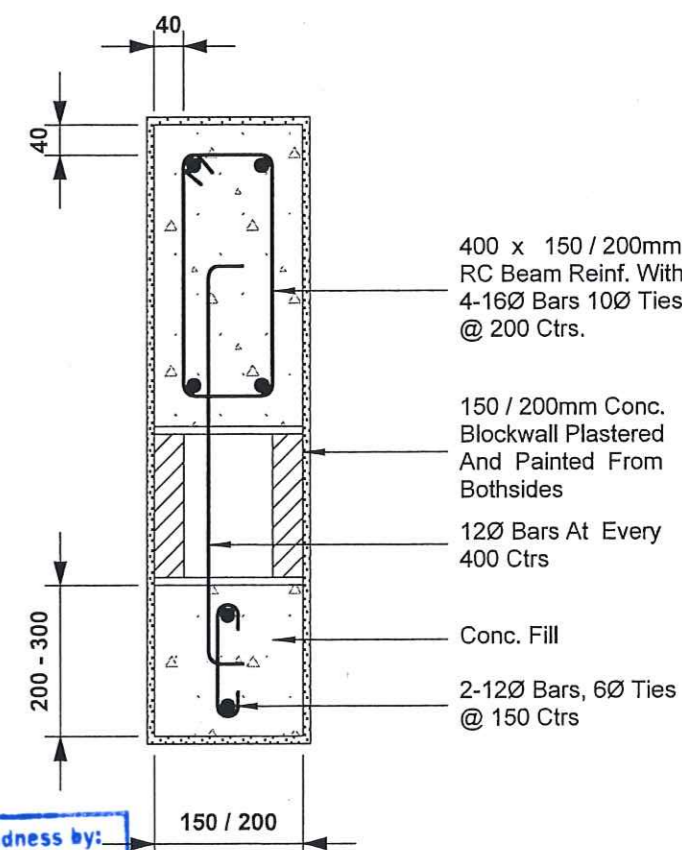


**BLOCKWALL STEP DETAIL**  
SCALE 1:20  
100 / 150 / 200mm BLOCKWALL

**NOTE:**  
REFER TO SERVICES ENGINEERS AND ARCHITECTS DRAWINGS FOR DETAILS OF CONDUITS, FLUSH BOXES AND OTHER ITEMS THAT ARE TO BE BUILT INTO THE BLOCK WALLS

**NOTE:**  
ALL BLOCKWORK TO BE FULLY GROUTED

**KEY:**  
R - ROUND MILD  
D - DEFORMED  
HD - 500 GRADE DEFORMED



**TYP. LINTEL BEAM DETAIL ON TOP OF WINDOW & DOOR**  
SCALE 1:10

Structures Checked for Safety & Soundness by:  
Krishneel Sanjay Ram of ISOTECT ENGINEERS (FIJI) PTE LTD  
Professional Engineer -  
Civil & Structural & Environment (Fiji, Australia & New Zealand)  
B. Tech Civil - India, Dip. In Civil Engg - Fiji, CEng NZ, CPEng Int (PEI NZ) / APEng (NZ),  
MIE Aust, CPEng, NRE, AREC, Engineer (Aust), MFIE, MASCE, MOSCE, MUSE & CMICE

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.

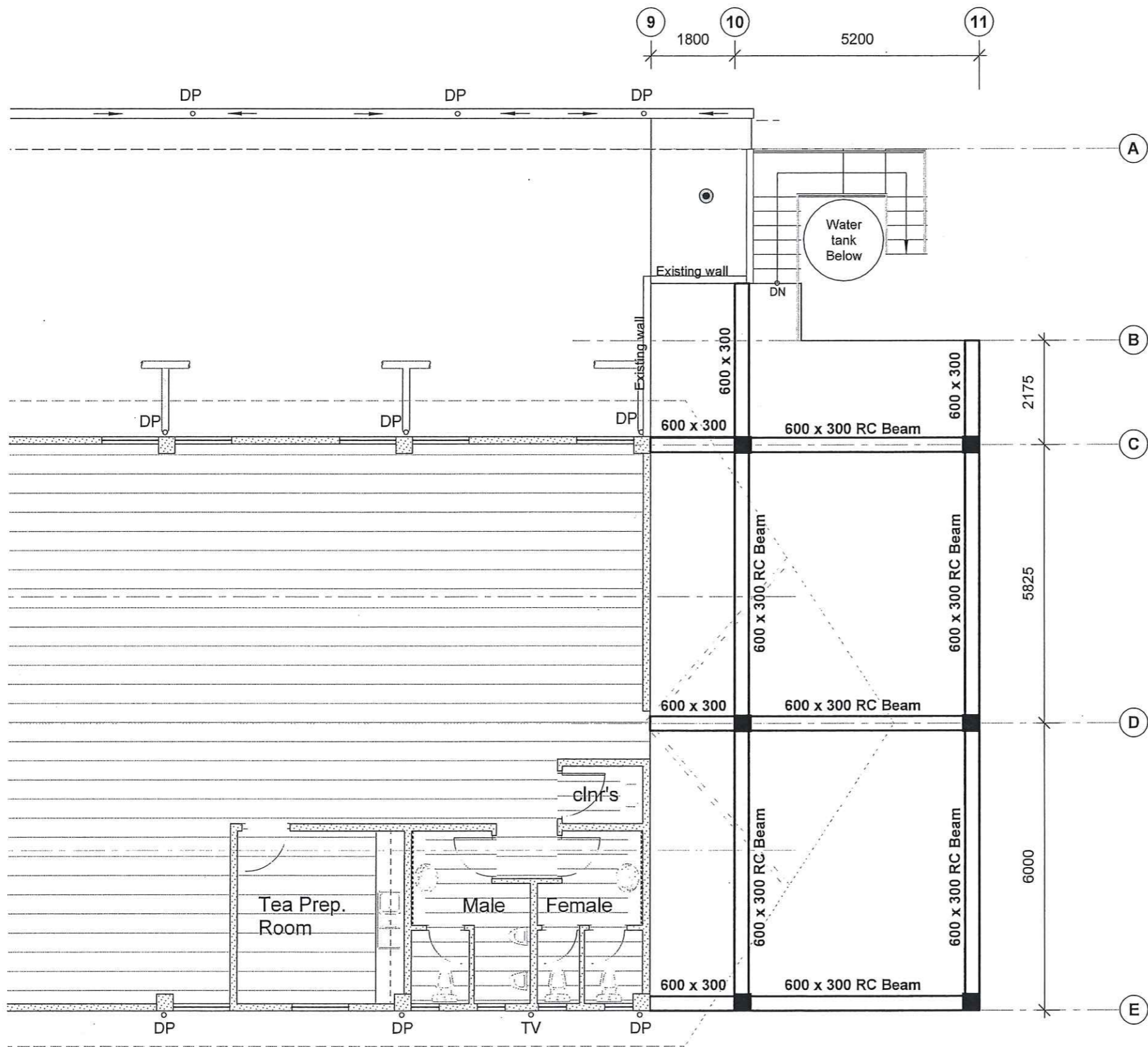
**design**  
ARCHITECTS DESIGN CONSULTANTS PROJECT MANAGERS INTERIOR DESIGNERS  
26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS  
PH. - 3400 287, FAX. - 3400 185  
Email : designhut@connect.com.fj

REV.	NOTES	DATE

PROJECT  
**PACIFIC COMMUNITY**  
PROPOSED EXTENSION TO EXISTING  
BUILDING - CRYOGENIC LAB  
FNTC ROAD 2, NARERE,  
NASINU.

SHEET TITLE  
**TYPICAL LINTEL BEAM & STRUCTURAL DETAILS**

DESIGN : S.P	PROJECT NO. 22-014
DRAWN : D.C	SHEET NO. <b>S6</b>
DATE : 24.08.22	
SCALE : AS SHOWN	REV.



**FIRST FLOOR BEAM FRAMING PLAN**  
SCALE 1:100

Structures Checked for Safety & Soundness by:  
 Krishneel Sanjay Ram of ISOTECT ENGINEERS (FIJI) PTE LTD  
 Chartered & Registered Professional Engineer -  
 Civil & Structural & Environment (Fiji, Australia & New Zealand)  
 B. Tech Civil - India, Dip. in Civil Engg - Fiji CMENZ CPEng IntPE(NZ) / APEC Engineer,  
 MIEAust CPEng NER APEC Engineer IntPE(Aus), MFIE, MASCE, MCSCE, MISCF & GMICE

SIGN: \_\_\_\_\_ DATE: 20/08/22

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.

**design**  
 ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS  
 26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS  
 PH. - 3400 287, FAX. - 3400 185  
 Email : designhut@connect.com.fj

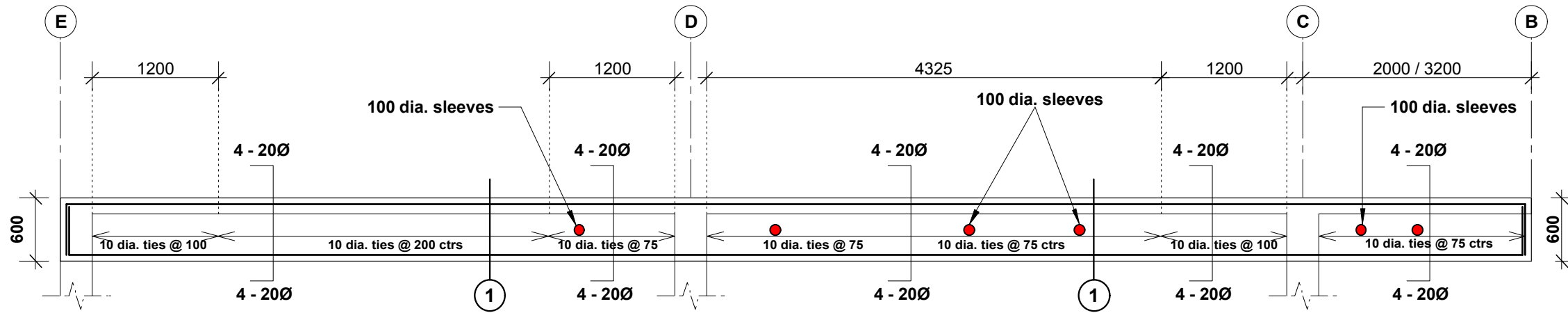
REV.	NOTES	DATE

PROJECT  
**PACIFIC COMMUNITY**  
**PROPOSED EXTENSION TO EXISTING**  
**BUILDING - CRYOGENIC LAB**  
 FNTC ROAD 2, NARERE,  
 NASINU.

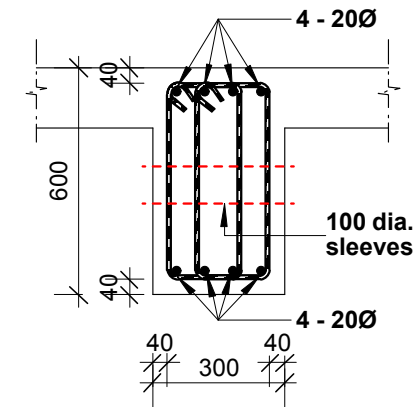
SHEET TITLE  
**FIRST FLOOR BEAM FRAMING**  
**PLAN**

DESIGN : S.P	PROJECT NO. 22-014
DRAWN : D.C.S	SHEET NO. <b>S7</b>
DATE : 24.08.22	
SCALE : AS SHOWN	REV.

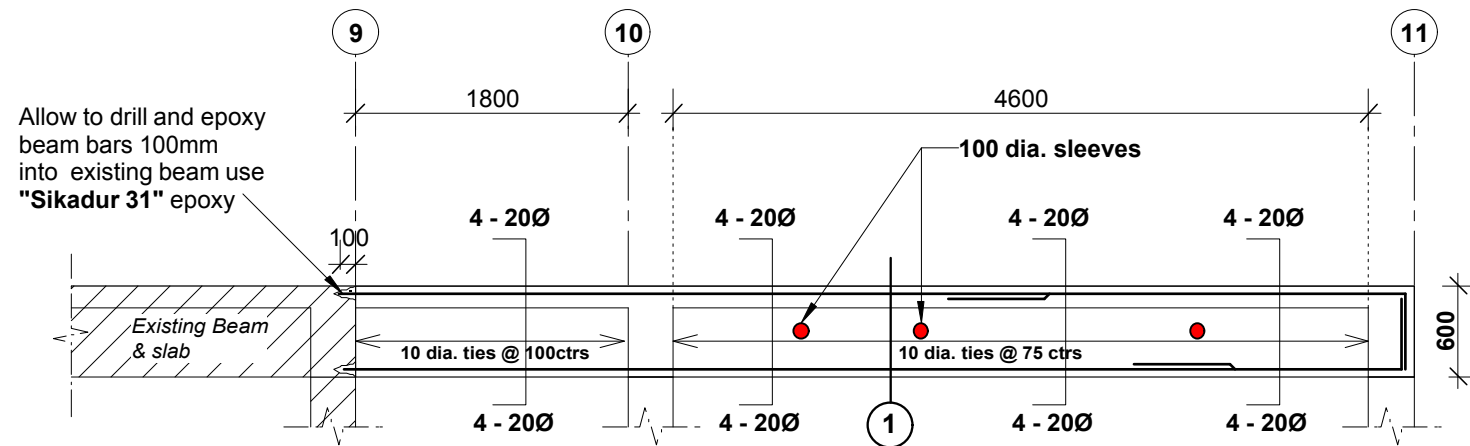




**BEAM ELEVATION ON GRID LINES - 10 & 11**  
SCALE 1:50



**BEAM SECTION - 1**  
Scale 1 : 20




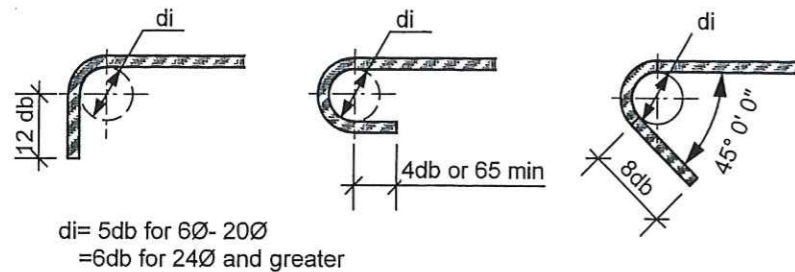
**BEAM ELEVATION ON GRID LINES - C, D & E**  
SCALE 1:50

**NOTE:**

- \* Refer (S7) beam framing plan for location of floor drops & beam size
- \* All ties to start from face of column
- \* Grade 300E main horizontal reinforcement bars
- \* Grade 300E Stirrups

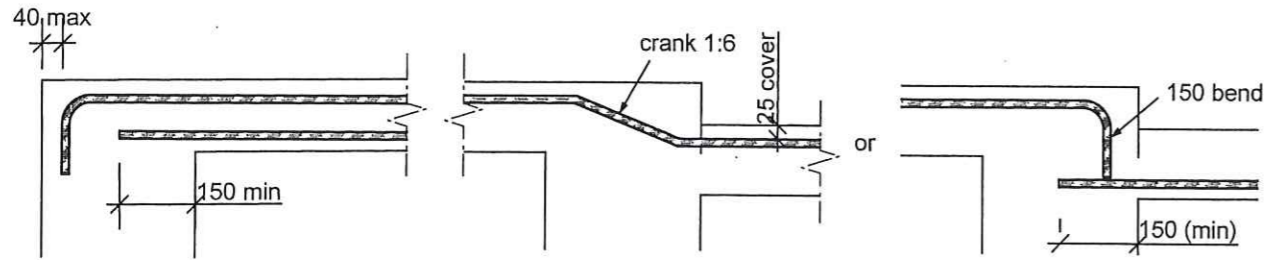
**TENDER ISSUE**  
**22.06.23**

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the <b>ARCHITECT</b> immediately.	 ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS 26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS PH. - 3400 287, FAX. - 3400 185 Email : designhut@connect.com.fj	REV.	NOTES	DATE	PROJECT <b>PACIFIC COMMUNITY</b> <b>PROPOSED EXTENSION TO EXISTING</b> <b>BUILDING - CRYOGENIC LAB</b> FNTC ROAD 2, NARERE, NASINU.	SHEET TITLE <b>BEAM ELEVATION &amp;</b> <b>SECTIONS</b>	DESIGN : S . P	PROJECT NO. <b>22-014</b>
							DRAWN : R.M/D.C.S	SHEET NO.
							DATE : 25.08.22	<b>S8</b>
							SCALE : AS SHOWN	REV.



di = 5db for 6Ø - 20Ø  
= 6db for 24Ø and greater

**BENDS & ANCHORAGE**



**SLAB BOTTOM STEEL SEATING**

**CANTILEVER STEEL ANCHORAGE**

**NOTE:(unless shown otherwise)**

1. Min. splice length 40db
2. Min. spacing between bars 24mm
3. conc. cylinder strength shall be 25mPa at 28 days
4. All conc. shall be ready mix unless approved otherwise.
5. If site mix is used, use 20mm graded crush metal and mechanically mix in ratio 3:11/2:1 (crushed metal : sand : cement)
6. conc. shall be continuously cured for at least 7 days, 3 days for internal works
7. For interior structures suggested water cement ratio shall be 0.5 with min cement content 270kg/cu. m.
8. For exterior structures w/c= 0.4 min cement= 320kg/cu.m.

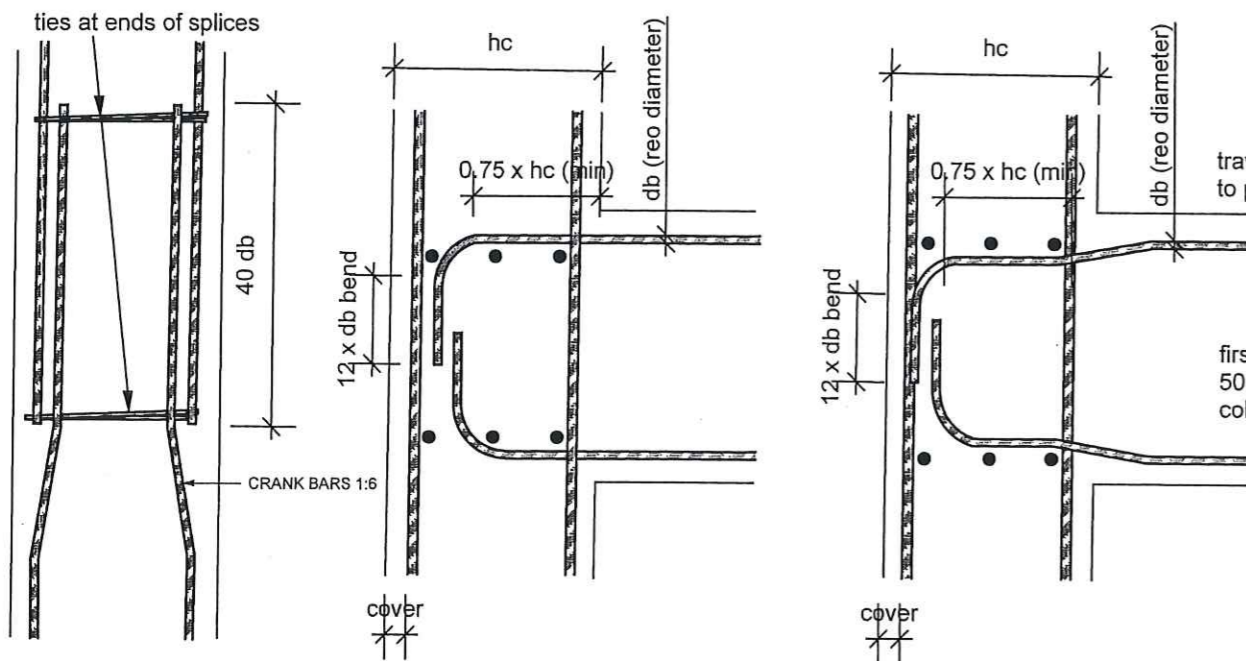
- Formwork Stripping Schedule**
1. Column sides- 2days
  2. Beam & slab- soffit(leaving props)- 7 days  
-remove props -14 days

**COVER**  
**\*cover to face of principle reinforcement**

- 1.(a) where conc is cast on or against ground & compacted min. cover (mc) 75mm  
(b)mc=50mm if using damp roof membrane
- 2.(a) where conc is cast in formwork & compacted-formwork removed and against ground contact:  
min.mc= 50mm-20mPa  
40mm-25mPa  
35mm-30mPa  
(b) conc fully enclosed (except during construction)-  
25mm, 25mm, 20mm for 20mPa, 25mPa, 30mPa  
min 3 day curing.  
(c) exposed to be repeated wetting and drying  
50mm, 40mm,35mm  
(d) Coastal Frontage, in water (sea or salt) permantly  
50mm, 45mm, 25mPa & 30mPa(do not use 20mPa)  
(e) tidal splash zone 70mm and only use 50mPa conc  
all above 7 day cure min.

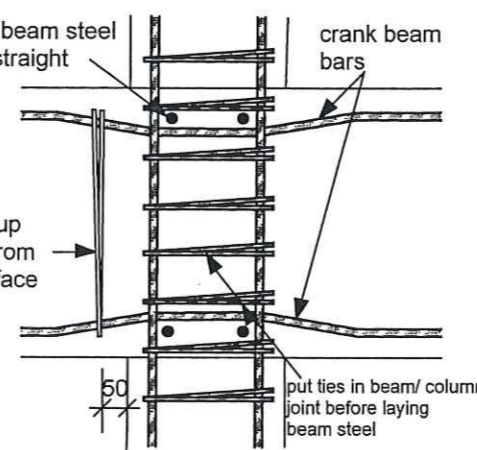
Concrete exposed to wetting and drying  
use w/c= 0.5 with min cement 270 kg/cu.m  
concrete under water or coastal areas  
use w/c=0.4-0.45 and min cement 320 kg/cu.m

eg. for 40mm cover to 400 x 300 beam

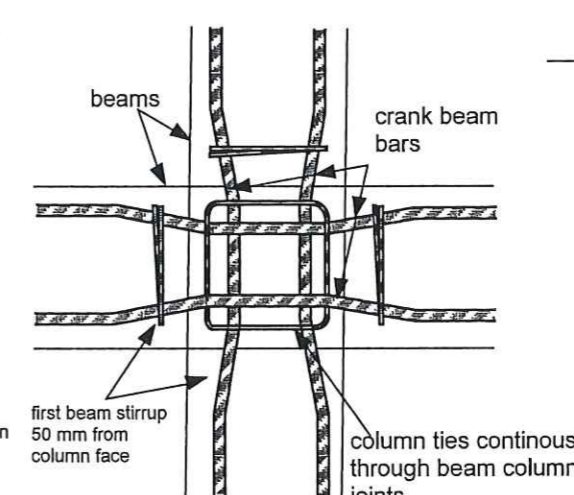


**COLUMN SPLICE 1:20**  
UNLESS SHOWN OTHERWISE  
SPLICE AT COLUMN MIDSPAN

**BEAM STEEL ANCHORAGE INTO COLUMN 1:20**

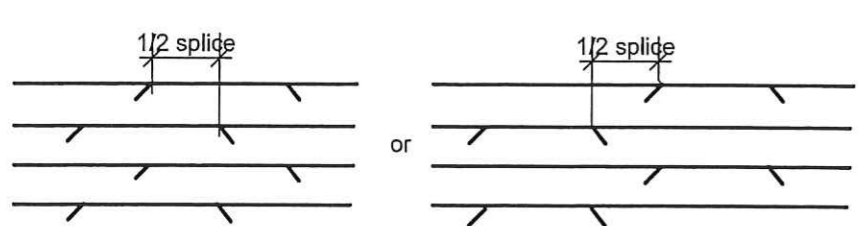


**ELEVATIONS**



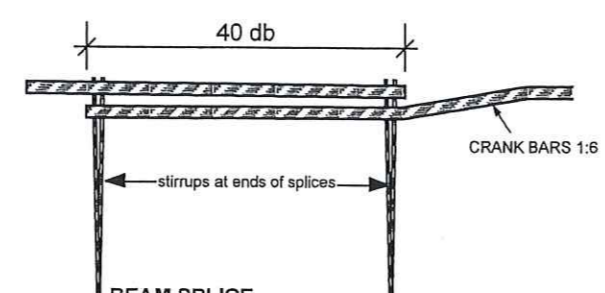
**PLAN**

**REO ARRANGMENTS AT BEAM COLUMN JOINTS**



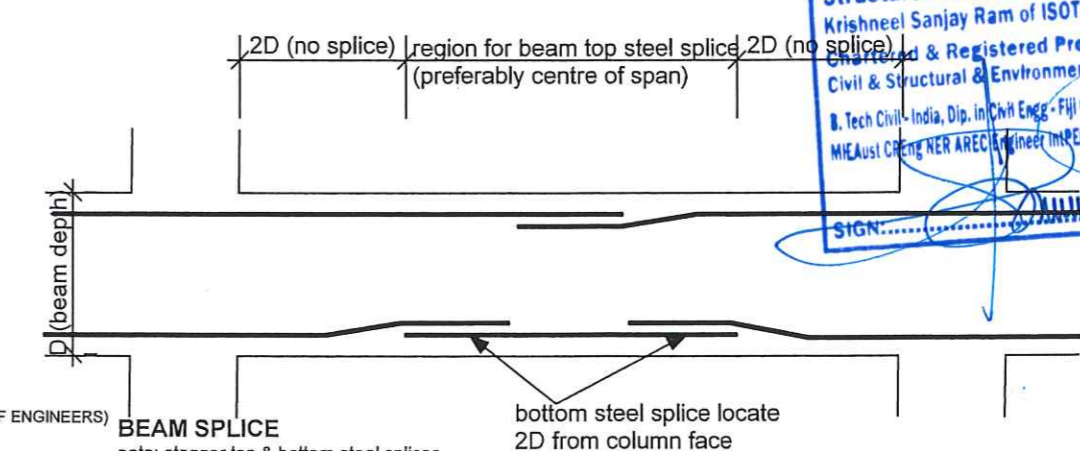
**STAGGERED SPLICE** : splice length 40 db

NOTE: no lapping of beam steel within distance of 2D from column face  
D = beam depth



**BEAM SPLICE**

\*SLAB SPLICE LENGTH SIMILAR (SPLICE ONLY ON APPROVAL OF ENGINEERS)  
\*SLAB BOTTOM STEEL TO BE SPLICED OVER SUPPORTS ONLY



**BEAM SPLICE**

note: stagger top & bottom steel splices

**Structures Checked for Safety & Soundness by:**  
Krishneel Sanjay Ram of ISOTECT ENGINEERS (FIJI) PTE LTD  
Chartered & Registered Professional Engineer -  
Civil & Structural & Environment (Fiji, Australia & New Zealand)  
B. Tech Civil - India, Dip. in Civil Engng - Fiji CMEngNZ CPEng IntPE(NZ) / APEC Engineer,  
MIEAust CPEng NER AREC Engineer IntPE(Aus), MPFE, MASCE, MZSCE, MJSCE & GMICE  
SIGN: [Signature] DATE: 20/08/20

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.

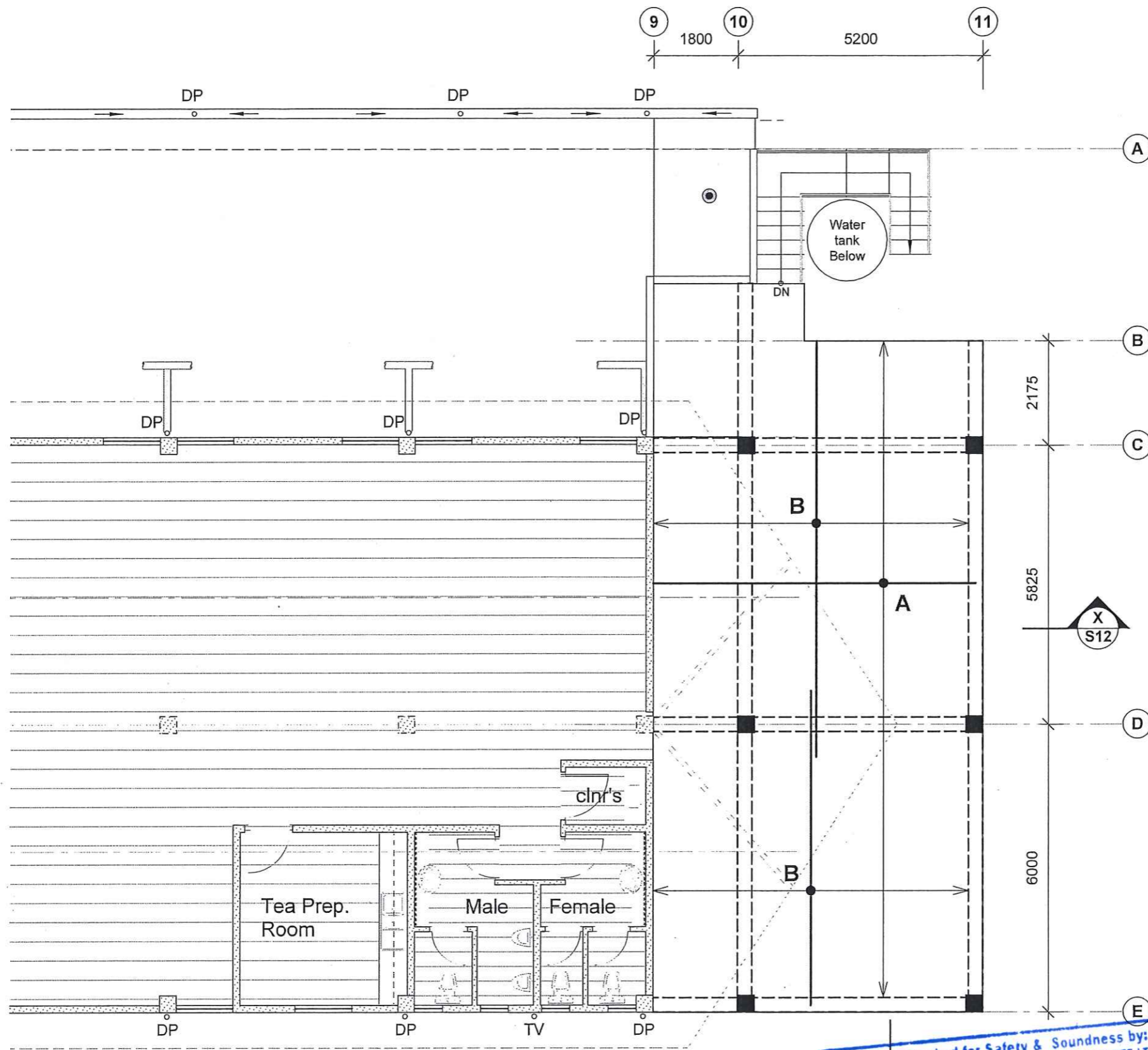
**design**  
ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS  
26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS  
PH. - 3400 287, FAX. - 3400 185  
Email: designhut@connect.com.fj

REV.	NOTES	DATE

PROJECT  
**PACIFIC COMMUNITY**  
**PROPOSED EXTENSION TO EXISTING**  
**BUILDING - CRYOGENIC LAB**  
FNTC ROAD 2, NARERE,  
NASINU.

SHEET TITLE  
**STEEL ARRANGEMENT &**  
**SPLICE DETAILS**

DESIGN : S. P	PROJECT NO. 22-014
DRAWN : D.C.S	SHEET NO. <b>S9</b>
DATE : 24.08.22	
SCALE : AS SHOWN	REV.



**NOTE**

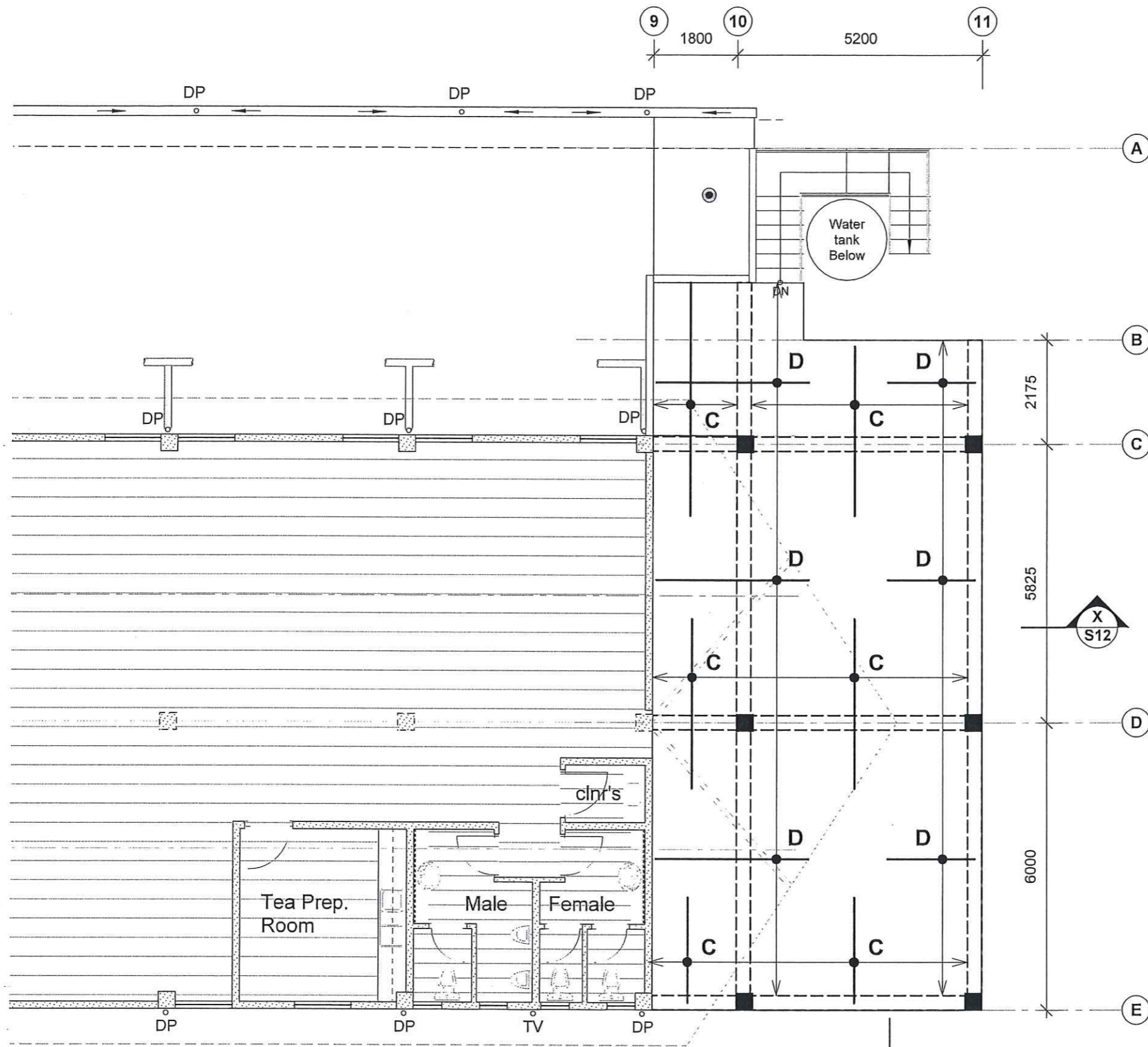
1. The slab shall be 150mm thick
2. Characteristic compressive strength of concrete at 28 days shall be 25MPa.
3. Yield strength of all reinforcement shall be 300MPa
4. Instu concrete slab add SIK1 admixture into concrete mix and concrete to be mechanically vibrated properly

**FIRST FLOOR SLAB REINF. PLAN (bottom steel)**  
SCALE 1:100

Structures Checked for Safety & Soundness by:  
 Krishneer Sanjay Ram of ISOTECT ENGINEERS (FIJI) PTE LTD  
 Chartered & Registered Professional Engineer -  
 Civil & Structural & Environment (Fiji), Australia & New Zealand  
 B. Tech Civil - India, Dip. In Civil Engg - Fiji CMEngNZ CPEng IntPEINZI / APEC Engineer,  
 MIEAust CPEng NER APEC Engineer IntPEIAus, MFIE, MASCE, MCSCE, MUSCE & SMICE  
 SIGN: ..... DATE: 20/08/22

REINFORCEMENT SCHEDULE	
MARK	COMMENT
A	12Ø at 200mm ctrs laid second in bottom layer
B	12Ø at 200mm ctrs laid first in bottom layer

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.	 ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS 26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS PH. - 3400 287, FAX. - 3400 185 Email : designhut@connect.com.fj	REV.	NOTES	DATE	PROJECT <b>PACIFIC COMMUNITY</b> <b>PROPOSED EXTENSION TO EXISTING BUILDING - CRYOGENIC LAB</b> FNTC ROAD 2, NARERE, NASINU.	SHEET TITLE <b>FIRST FLOOR SLAB REINF. PLAN (bottom steel)</b>	DESIGN : S.P	PROJECT NO. 22-014 SHEET NO. <b>S10</b>
							DRAWN : D.C.S	
							DATE : 24.08.22	
							SCALE : AS SHOWN	



**NOTE**

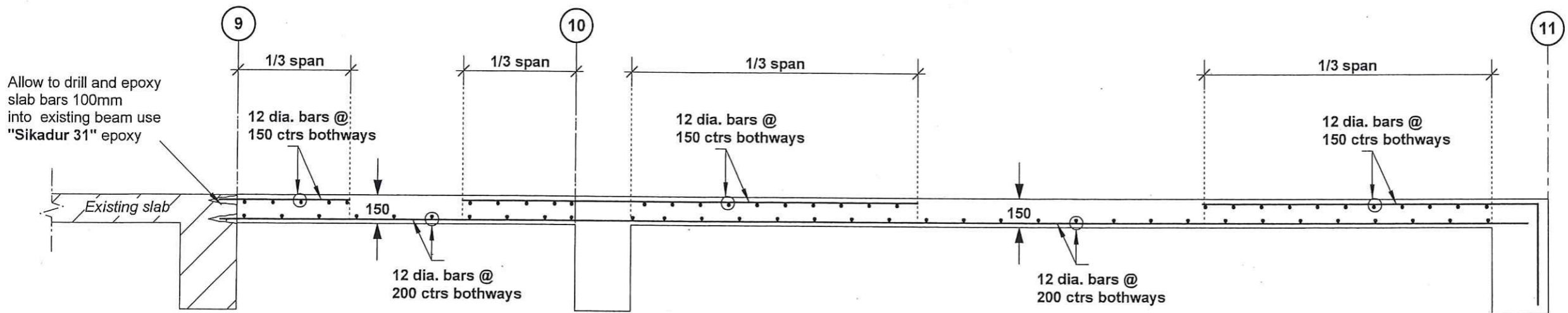
1. The slab shall be 150mm thick
2. Characteristic compressive strength of concrete at 28 days shall be 25MPa.
3. Yield strength of all reinforcement shall be 300MPa
4. Instu concrete slab add SIKa1 admixture into concrete mix and concrete to be mechanically vibrated properly

**FIRST FLOOR SLAB REINF. PLAN (top steel)**  
SCALE 1:100

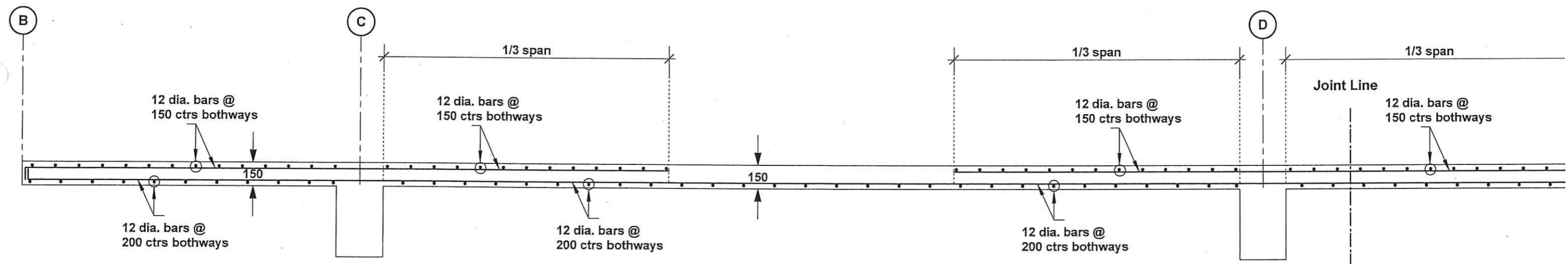
Structures Checked for Safety & Soundness by:  
 Krishneer Arjay Ram of ISOTECT ENGINEERS (FIJI) PTE LTD  
 Chartered & Registered Professional Engineer -  
 Civil & Structural & Environment (Fiji, Australia & New Zealand)  
 B. Tech Civil - India, Dip. In Civil Engg - Fiji CMEngNZ CPEng (MPEINZI) / APEC Engineer,  
 MIEAust CPEng (HER APREG) (Engineer) (MPEI(Aus), MFIE, MASOE, MCSCE, MJSCE & GNICE  
 SIGN: [Signature] DATE: 30/08/22

REINFORCEMENT SCHEDULE	
MARK	COMMENT
C	12Ø at 150mm ctrs laid first in top layer
D	12Ø at 150mm ctrs laid second in top layer

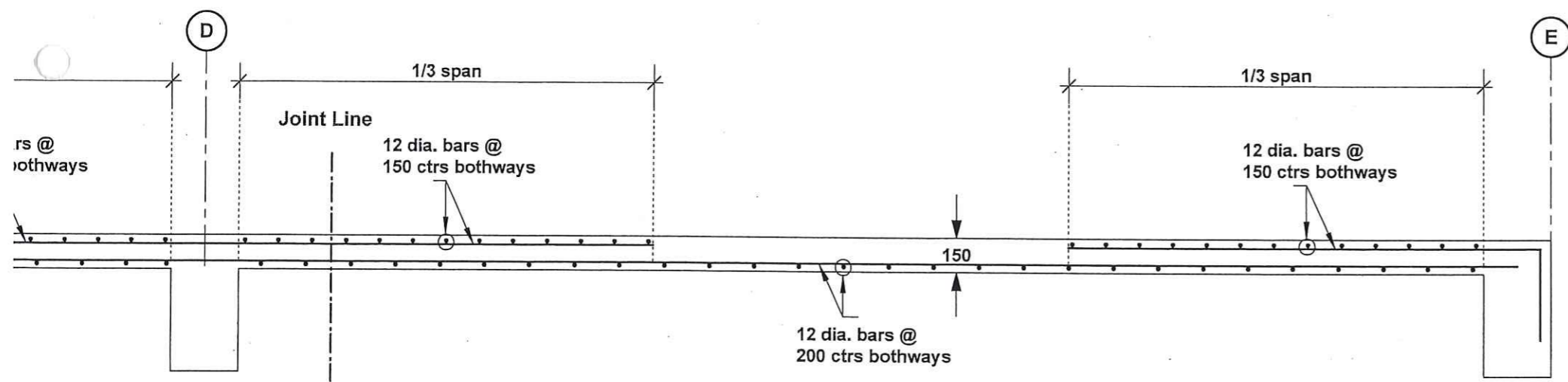
Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.	 ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS 26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS PH. - 3400 287, FAX. - 3400 185 Email: designhut@connect.com.fj	REV.	NOTES	DATE	PROJECT <b>PACIFIC COMMUNITY</b> <b>PROPOSED EXTENSION TO EXISTING</b> <b>BUILDING - CRYOGENIC LAB</b> FNTC ROAD 2, NARERE, NASINU.	SHEET TITLE <b>FIRST FLOOR SLAB REINF.</b> <b>PLAN (top steel)</b>	DESIGN : S.P	PROJECT NO. 22-014
							DRAWN : D.C.S	SHEET NO.
							DATE : 24.08.22	<b>S11</b>
							SCALE : AS SHOWN	



**SLAB SECTION - X**  
SCALE 1 : 25



**SLAB SECTION - Y**  
SCALE 1 : 25



**SLAB SECTION - Y (continued)**  
SCALE 1 : 25

Structures Checked for Safety & Soundness by:  
**Krishneel Sanjay Ram of ISOTECT ENGINEERS (FIJI) PTE LTD**  
 Chartered & Registered Professional Engineer -  
 Civil & Structural & Environment (Fiji, Australia & New Zealand)  
 B. Tech Civil - India, Dip. In Civil Engg - Fiji CMENZ CPENG IntPE(NZ) / APEC Engineer,  
 MIEAust CPENG NEER ARAC Engineering (PE)(Aus), MFIE, MASCE, MCSCE, MJSCE & GMICE  
 SIGN: \_\_\_\_\_ DATE: 30/08/22

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.

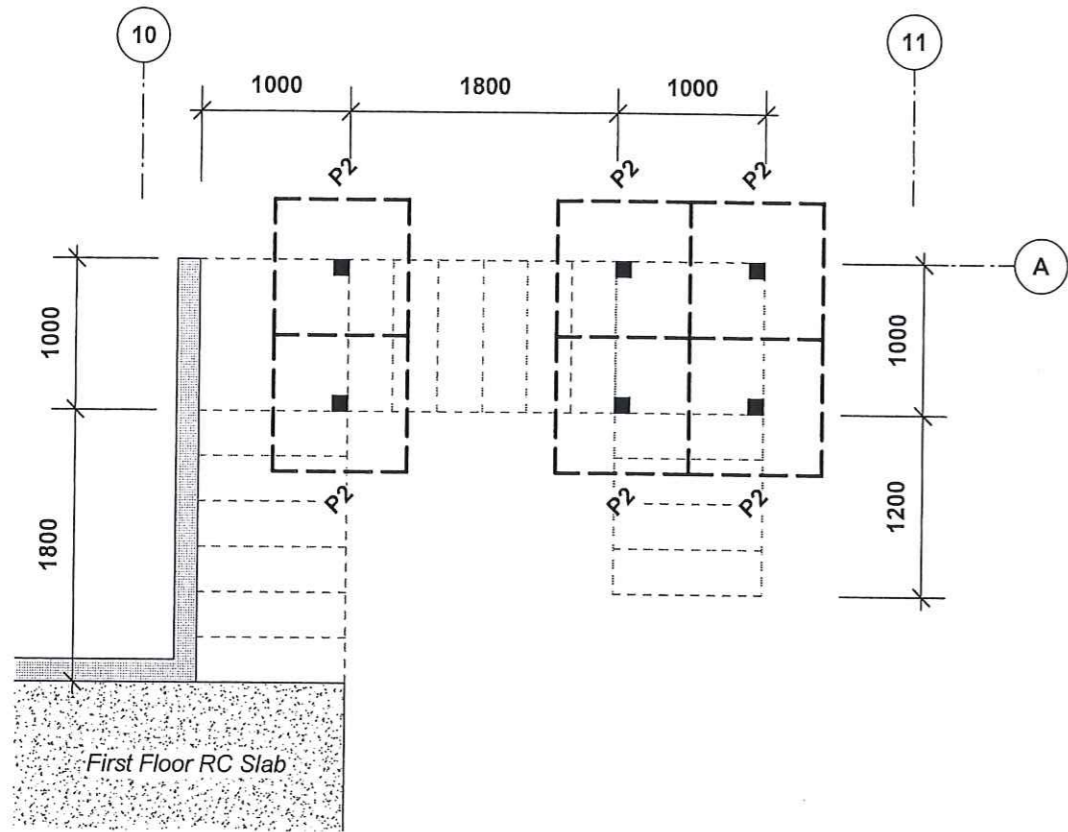
**design**  
 ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS  
 26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS  
 PH. - 3400 287, FAX. - 3400 185  
 Email : designhut@connect.com.fj

REV.	NOTES	DATE

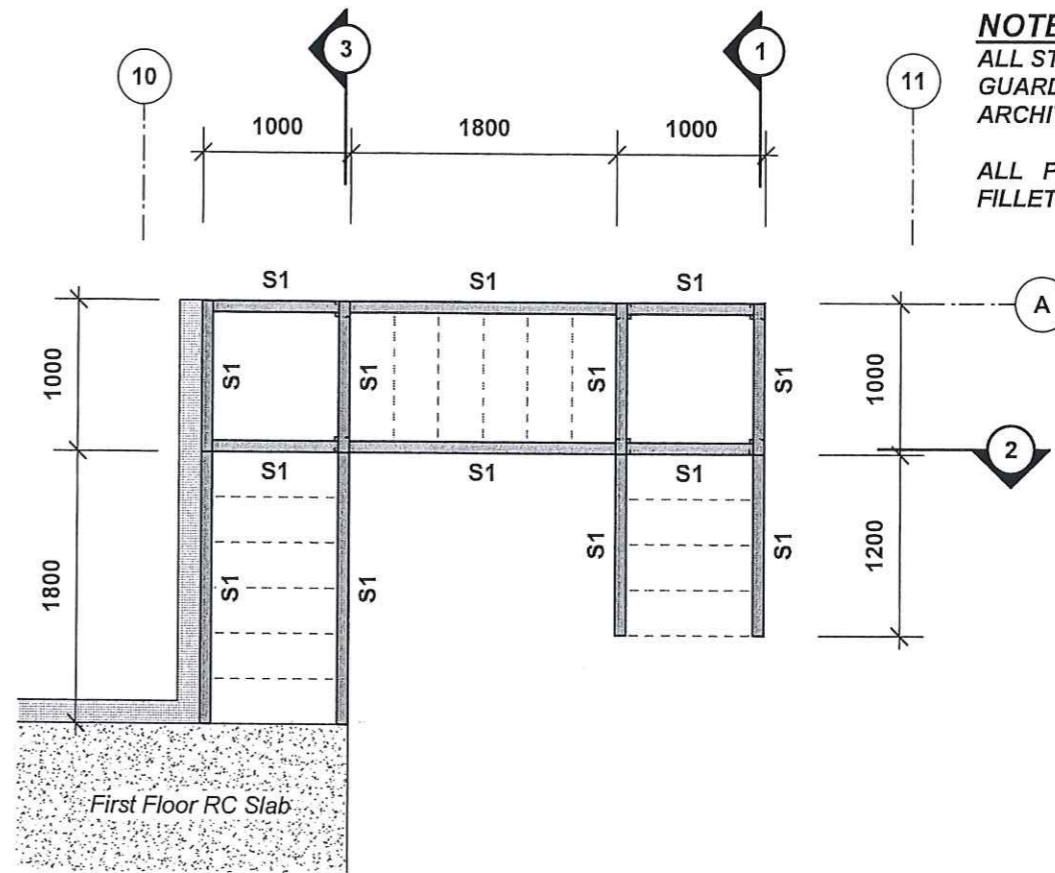
PROJECT  
**PACIFIC COMMUNITY  
 PROPOSED EXTENSION TO EXISTING  
 BUILDING - CRYOGENIC LAB**  
 FNTC ROAD 2, NARERE,  
 NASINU.

SHEET TITLE  
**SLAB SECTIONS**

DESIGN : S.P	PROJECT NO. 22-014				
DRAWN : D.C.S	SHEET NO.				
DATE : 24.08.22	<b>S12</b>				
SCALE : AS SHOWN	REV. <table border="1"><tr><td> </td><td> </td><td> </td><td> </td></tr></table>				



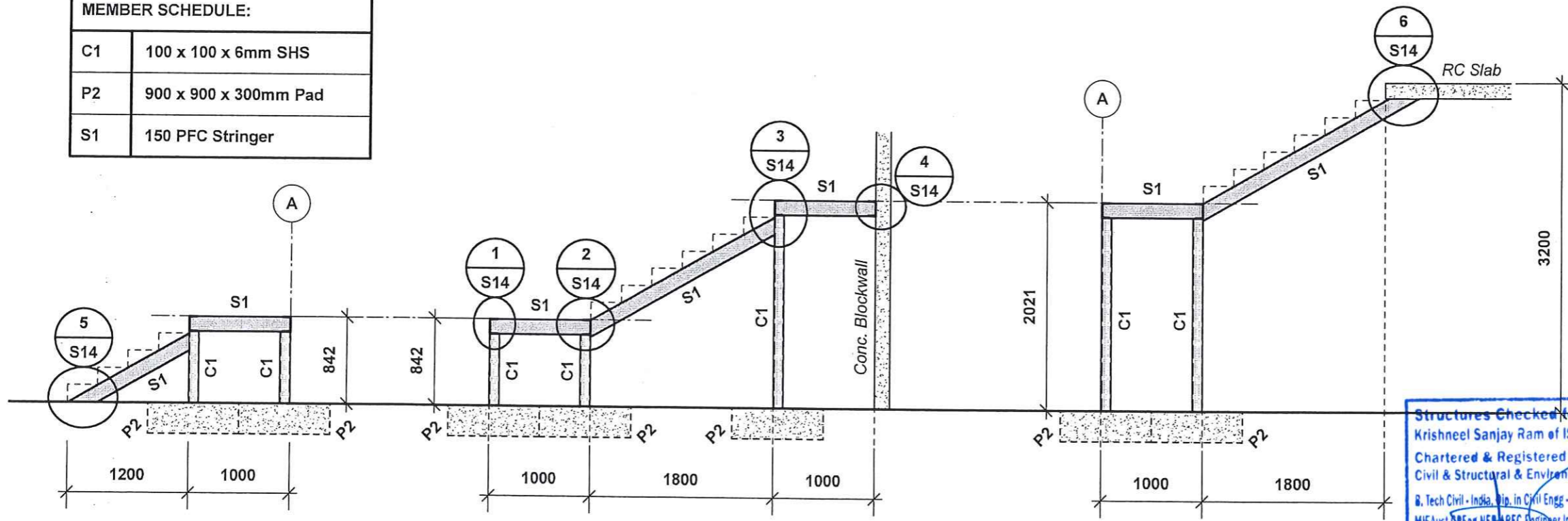
**STEEL STAIR FOUNDATION PLAN**  
SCALE 1:50



**STEEL STAIR FRAMING PLAN**  
SCALE 1:50

**NOTE:**  
ALL STEEL WORKS TO BE PAINTED WITH RUST GUARD AND 2 COATS OF FINISHING AS PER ARCHITECTS INSTRUCTION  
ALL PLATE SHOWN IN DRAWING WITH 6MM FILLET WELD USING E48XX WELD MATERIAL

MEMBER SCHEDULE:	
C1	100 x 100 x 6mm SHS
P2	900 x 900 x 300mm Pad
S1	150 PFC Stringer



**FRAME ELEVATION - 1**  
SCALE 1:50

**FRAME ELEVATION - 2**  
SCALE 1:50

**FRAME ELEVATION - 3**  
SCALE 1:50

Structures Checked for Safety & Soundness by:  
Krishneel Sanjay Ram of ISOTECT ENGINEERS (FIJI) PTE LTD  
Chartered & Registered Professional Engineer -  
Civil & Structural & Environment (Fiji, Australia & New Zealand)  
B. Tech Civil - India, Dip. in Civil Engg - Fiji, CMEngNZ, CPEng IntPE(NZ) / APEC Engineer,  
MIEAust, CPEng NEA, REC Engineer IntPE(Aus), MFIE, MASCE, MCSQE, MJSCE & GMICE  
SIGN: [Signature] DATE: 2008/08/22

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.

**design**  
ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS  
26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS  
PH. - 3400 287, FAX. - 3400 185  
Email: designhut@connect.com.fj

REV.	NOTES	DATE

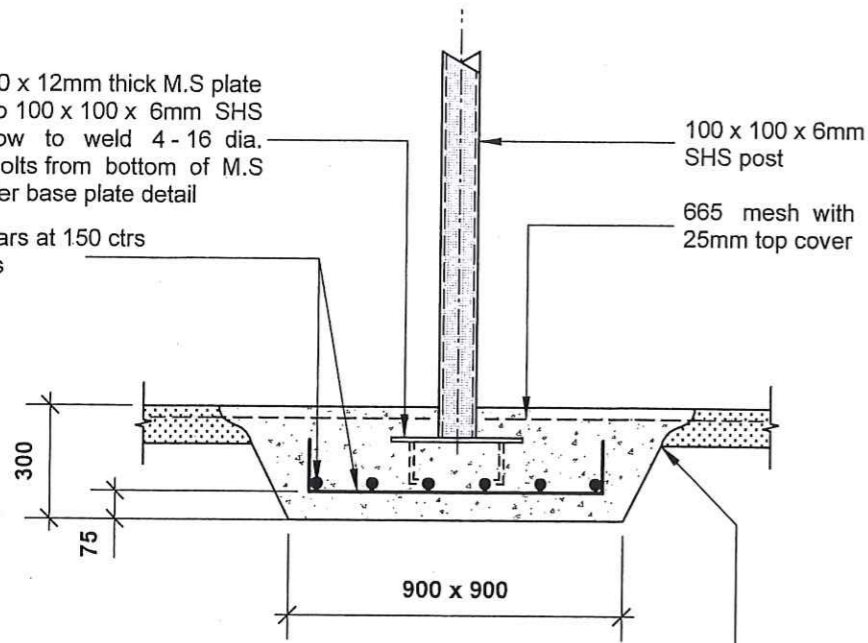
PROJECT  
**PACIFIC COMMUNITY  
PROPOSED EXTENSION TO EXISTING  
BUILDING - CRYOGENIC LAB**  
FNTC ROAD 2, NARERE,  
NASINU.

SHEET TITLE  
**STEEL STAIR DETAILS**

DESIGN : S. P	PROJECT NO. 22-014
DRAWN : D.C	SHEET NO. <b>S13</b>
DATE : 24.08.22	
SCALE : AS SHOWN	REV.

350 x 350 x 12mm thick M.S plate welded to 100 x 100 x 6mm SHS post, allow to weld 4-16 dia. Anchor bolts from bottom of M.S plate, refer base plate detail

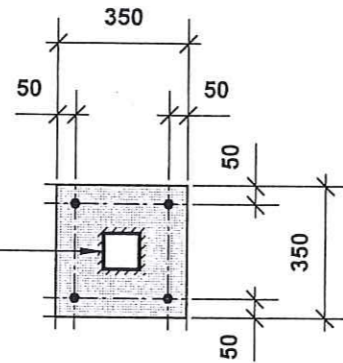
12 dia. bars at 150 ctrs bothways



Allow to break part of existing floor for new footing and re-concrete to match existing

**PAD ELEVATION - P2**  
SCALE 1:20

100 x 100 x 6mm SHS butt welded to 12mm thick M.S plate & drilled for 4-16 dia Anchor bolts



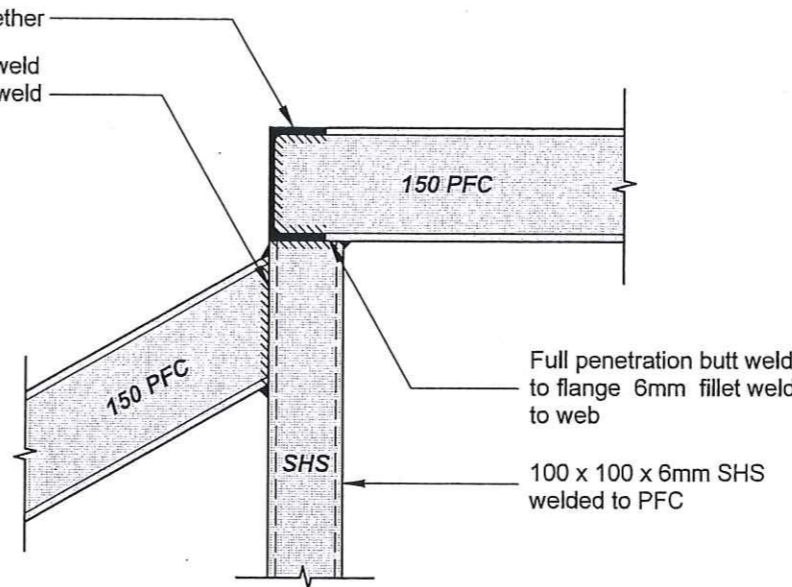
**100mm SHS BASEPLATE DETAIL**  
SCALE 1:20

**NOTE:**

ALL STEEL WORKS TO BE PAINTED WITH RUST GUARD AND 2 COATS OF FINISHING AS PER ARCHITECTS INSTRUCTION

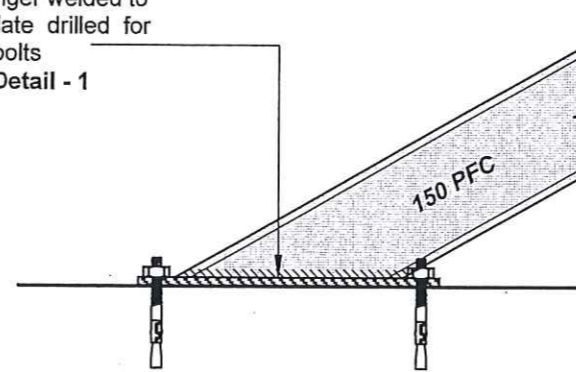
ALL PLATE SHOWN IN DRAWING WITH 6MM FILLET WELD USING E48XX WELD MATERIAL

150 PFC welded together  
Full penetration butt weld to flange 6mm fillet weld to web



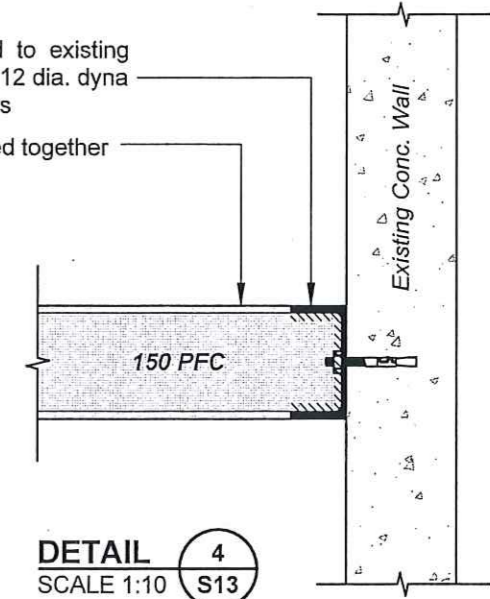
**DETAIL 3**  
SCALE 1:10 S13

150 PFC stringer welded to 12mm M/S plate drilled for 4-16Ø dyna bolts  
Refer Plate Detail - 1

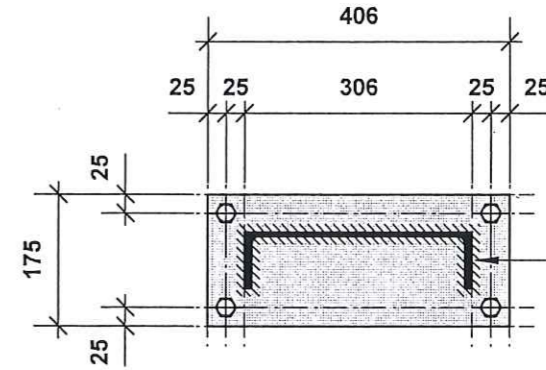


**DETAIL 5**  
SCALE 1:10 S13

150 PFC fixed to existing conc. wall with 12 dia. dyna bolts @ 900 ctrs  
150 PFC welded together



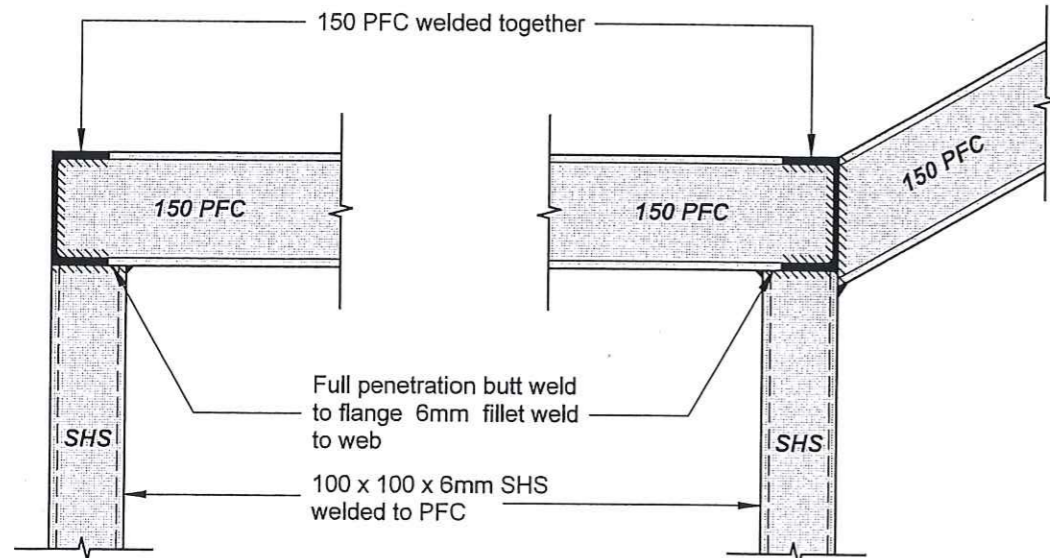
**DETAIL 4**  
SCALE 1:10 S13



150 PFC stringer welded to 12mm M/S plate drilled for 4-16Ø dyna bolts

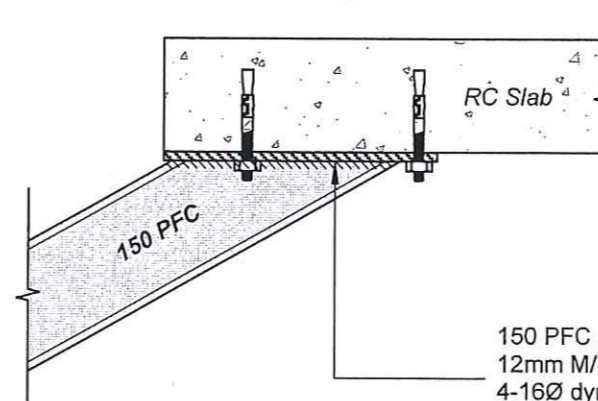
**BASEPLATE DETAIL - 1**  
SCALE 1:10

Structures Checked for Safety & Soundness by:  
Kishore Sanjay Ram of ISOTECT ENGINEERS (FIJI) PTE LTD  
Chartered & Registered Professional Engineer -  
Civil & Structural & Environment (Fiji, Australia & New Zealand)  
B. Tech Civil - India, Dip. in Civil Engg - Fiji, CMEngNZ, CPEng IntPE(NZ) / APEC Engineer,  
MIE Aust CPEng, NEER APEC Engineer IntPE(Aus), MFIE, MASCE, MCSCE, MJSCE & GMICE  
SIGN: \_\_\_\_\_ DATE: 20/08/22



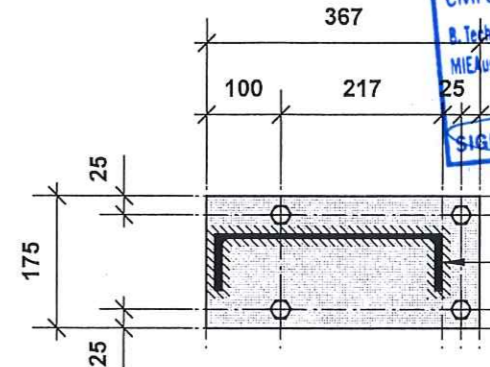
**DETAIL 1**  
SCALE 1:10 S13

**DETAIL 2**  
SCALE 1:10 S13



**DETAIL 6**  
SCALE 1:10 S13

150 PFC stringer welded to 12mm M/S plate drilled for 4-16Ø dyna bolts  
Refer Plate Detail - 2



**BASEPLATE DETAIL - 2**  
SCALE 1:10

150 PFC stringer welded to 12mm M/S plate drilled for 4-16Ø dyna bolts

Copyright reserved in all drawings and the work executed from them. Figured dimensions shall be read in preference. Largest scaled drawings shall take precedence. Check all dimensions on site. All discrepancies shall be reported to the ARCHITECT immediately.

**design**  
ARCHITECTS, DESIGN CONSULTANTS, PROJECT MANAGERS, INTERIOR DESIGNERS  
26 MARA ROAD, P.O. BOX 16, NAUSORI, FIJI ISLANDS  
PH. - 3400 287, FAX. - 3400 185  
Email: designhut@connect.com.fj

REV.	NOTES	DATE

PROJECT  
**PACIFIC COMMUNITY  
PROPOSED EXTENSION TO EXISTING  
BUILDING - CRYOGENIC LAB**  
FNTC ROAD 2, NARERE,  
NASINU.

SHEET TITLE  
**STEEL STAIR DETAILS**

DESIGN : S.P	PROJECT NO. 22-014
DRAWN : D.C	SHEET NO. <b>S14</b>
DATE : 24.08.22	
SCALE : AS SHOWN	REV.