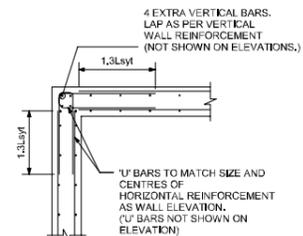
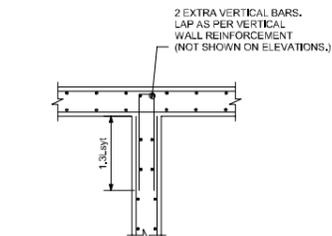


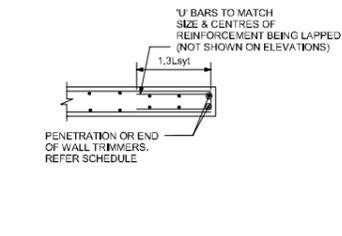
**TYPICAL TOP OF WALL REINFORCEMENT (>200 THICK WALLS)**



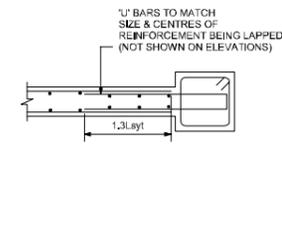
**TYPICAL CORNER DETAIL (>200 THICK WALLS)**



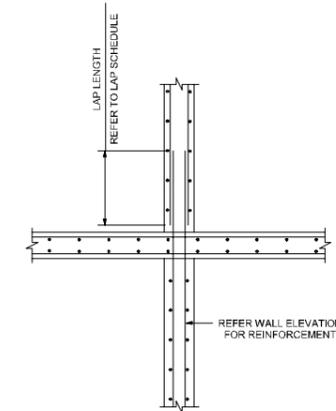
**TYPICAL 'T' INTERSECTION DETAIL (>200 THICK WALLS)**



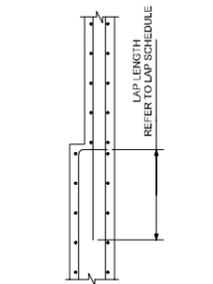
**END OF WALL, EDGE OF PENETRATION OR TOP OF WALL DETAIL (>200 THICK WALLS)**



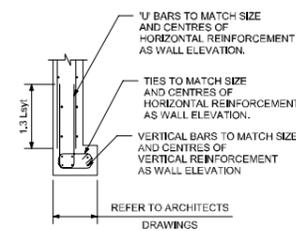
**TYPICAL WALL TO COLUMN (>200 THICK WALLS)**



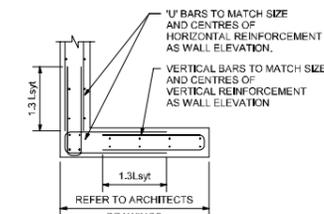
**TYPICAL WALL REINFORCEMENT SPLICE DETAIL (>200 THICK WALLS)**



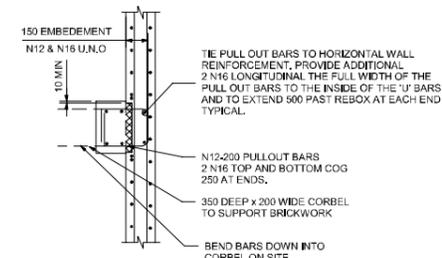
**REDUCTION IN WALL THICKNESS**



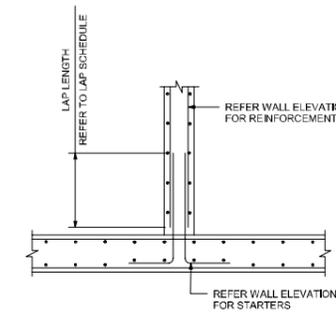
**RETURN WHERE 1.3Lsyf LAP CANNOT BE ACHIEVED**



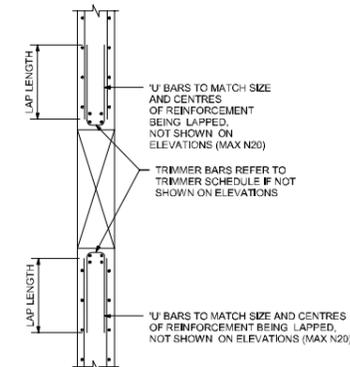
**RETURN WHERE 1.3Lsyf LAP CAN BE ACHIEVED**



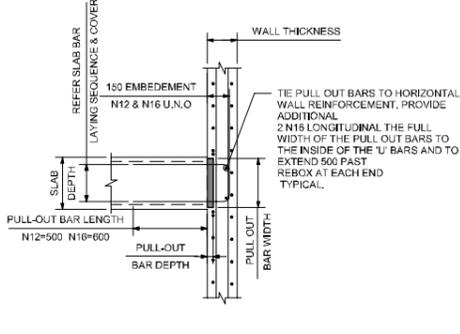
**TYPICAL CORBEL DETAIL TO SUPPORT BRICKWORK**



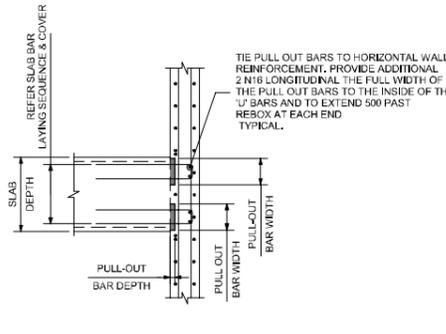
**TYPICAL WALL REINFORCEMENT STARTER DETAIL (>200 THICK WALLS)**



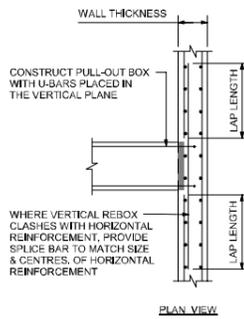
**PENETRATION SECTION DETAIL (>200 THICK WALL)**



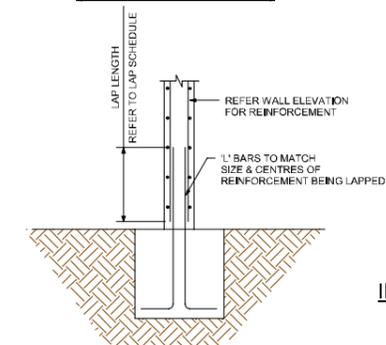
**PULL-OUT BAR TYPE 1 DETAIL**



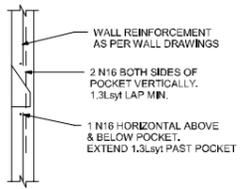
**PULL-OUT BAR TYPE 2 DETAIL**



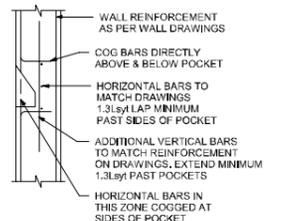
**VERTICAL PULL-OUT BAR DETAIL**



**TYPICAL WALL REINFORCEMENT STARTER DETAIL AT GROUND (>200 THICK WALLS)**



**INDICATIVE SECTION AT JUMPFORM POCKET 150 THICK WALL**



**INDICATIVE SECTION AT JUMPFORM POCKET 300 THICK WALL**

PULL OUT BAR SCHEDULE			
SLAB DEPTH (mm)	PULL OUT TYPE (mm)	PULL OUT DIMENSIONS	
		WIDTH	DEPTH
130		110	35
130	1	125	35
150	1	125	35
200	1	175	40
250	1	235	40
300	2	2x110	35
325	2	2x110	35
350	1	330	40
400	2	2x110	35
500	2	2x175	40
540	2	2x175	40
700	2	2x175	40

NOTES:  
 1. REFER GENERAL ARRANGEMENT DRAWINGS FOR SLAB THICKNESSES.  
 2. REFER REINFORCEMENT PLANS FOR BAR LAYING SEQUENCE AND COVER.  
 3. REFER PULL-OUT BAR PLANS FOR PULL-OUT BAR LOCATION AND EXTENT AS WELL AS PULL-OUT BAR SIZE AND SPACING.

30mm COVER TO WALL REINFORCEMENT LAP SCHEDULE												
SIZE	f <sub>c</sub> =32MPa		f <sub>c</sub> =40MPa		f <sub>c</sub> =50MPa		f <sub>c</sub> =65MPa		f <sub>c</sub> =80MPa		f <sub>c</sub> =100MPa	
	Lsyf	1.3Lsyf	Lsyf	1.3Lsyf								
N10	350	450	300	400	300	400	300	400	300	400	300	400
N12	450	600	400	500	350	500	350	500	350	500	350	500
N16	700	900	600	800	550	700	500	650	500	650	500	650
N20	950	1200	850	1100	750	950	650	850	650	850	650	850
N24	1200	1550	1100	1400	950	1250	850	1100	850	1100	850	1100
N28	1500	1950	1350	1750	1200	1550	1050	1350	1050	1350	1050	1350
N32	1800	2300	1600	2100	1450	1850	1250	1650	1250	1650	1250	1650
N36	2100	2700	1900	2450	1700	2200	1500	1900	1500	1900	1500	1900
N40	2450	3150	2150	2800	1950	2500	1700	2200	1700	2200	1700	2200

\* USE 1.3Lsyf FOR ALL HORIZONTAL REINFORCEMENT WHEN MORE THAN 300mm OF CONCRETE IS CAST BELOW THE BAR

AMENDMENTS	DATE	BY	REASON
1	10/12/17	ENSTRUCT	ISSUE FOR TENDER
2	10/12/17	ENSTRUCT	ISSUE FOR TENDER

**enstruct**  
 structural engineer  
 Level 4, 2 Glen Street  
 Maitland NSW 2091  
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 Facsimile (02) 9924 1555  
 http://www.enstruct.com.au

**NSW Health Infrastructure**

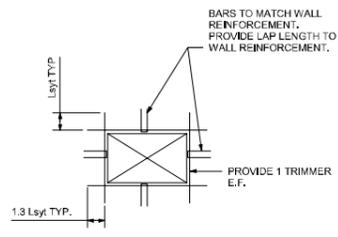
**TSA MANAGEMENT**

**BOWRAL & DISTRICT HOSPITAL REDEVELOPMENT**  
 97-103 BOWRAL ST,  
 BOWRAL NSW 2576

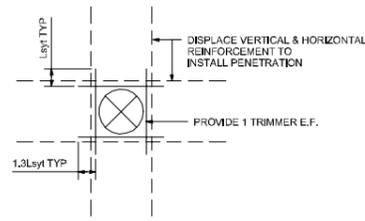
DRAWING NUMBER  
**ENS-ST-DWG-005-51**  
 DRAWING NAME  
**TYPICAL R.C. WALL DETAILS**

REV  
**2**  
 SCALE 1:100 @ B1

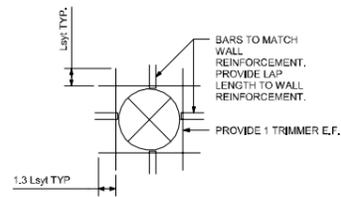
ISSUE DATE  
**06.12.17**



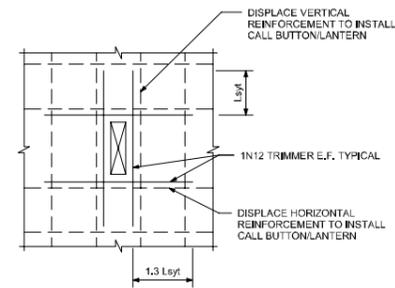
**TYPICAL REINFORCEMENT FOR WALL OPENINGS AND FREE EDGES**



**TYPICAL REINFORCEMENT FOR PENETRATION ≤300mm**

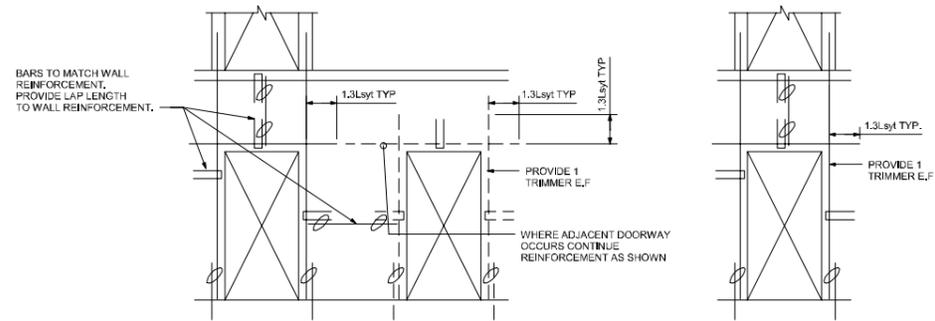


**TYPICAL REINFORCEMENT FOR PENETRATION >300mm**



**TYPICAL CALL BUTTON AND LANTERN TRIMMER DETAIL**

• REFER TO LIFT ENGINEERS DRAWINGS FOR LOCATIONS (NOT SHOWN ON STRUCTURAL ELEVATIONS)

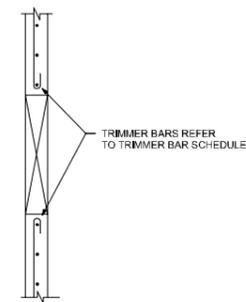


**TYPICAL DOOR OPENING**

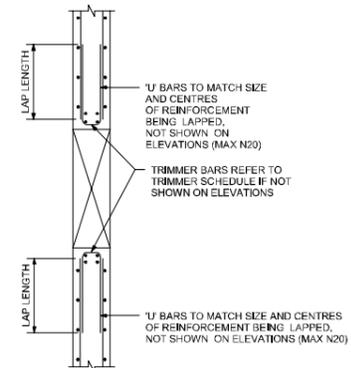
**TYPICAL DOOR OPENING**

**TYPICAL PENETRATION DETAILS**

• ALL STARTERS AND TRIMMERS DETAILED ABOVE ARE ADDITIONAL TO THOSE DETAILED ON WALL SCHEDULE U.N.O.  
 • ALL TRIMMER BARS INDICATED TO MATCH ADJACENT REINFORCEMENT. N16 MINIMUM.



**PENETRATION SECTION DETAIL (150 THICK WALL)**



**PENETRATION SECTION DETAIL (>200 THICK WALL)**

NO.	DATE	DESCRIPTION	BY
1	06/12/17	ISSUE FOR TENDER	EN
2	06/12/17	ISSUE FOR TENDER	EN

**enstruct**  
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 http://www.enstruct.com.au

**CLIENT**  
 NSW Health Infrastructure

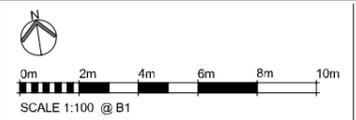
**PROJECT MANAGER**  
 TSA MANAGEMENT

**PROJECT**  
**BOWRAL & DISTRICT HOSPITAL REDEVELOPMENT**  
 97-103 BOWRAL ST,  
 BOWRAL NSW 2576

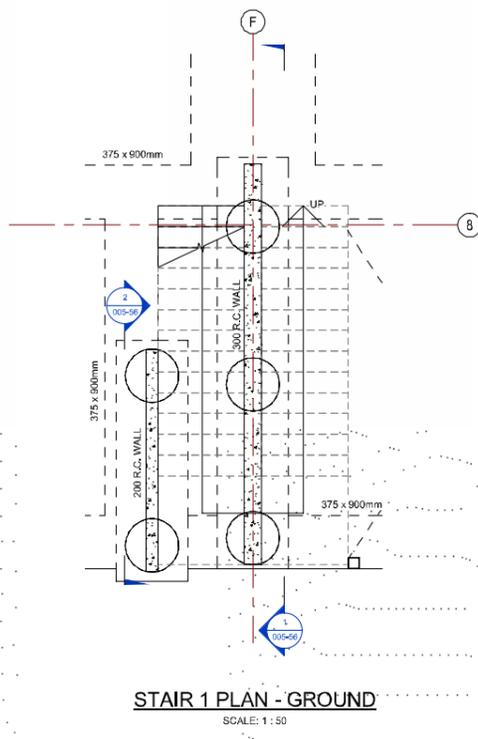
**DRAWING NUMBER**  
 ENS-ST-DWG-005-53

**DRAWING NAME**  
 TYPICAL R.C. WALL DETAILS (PENETRATIONS)

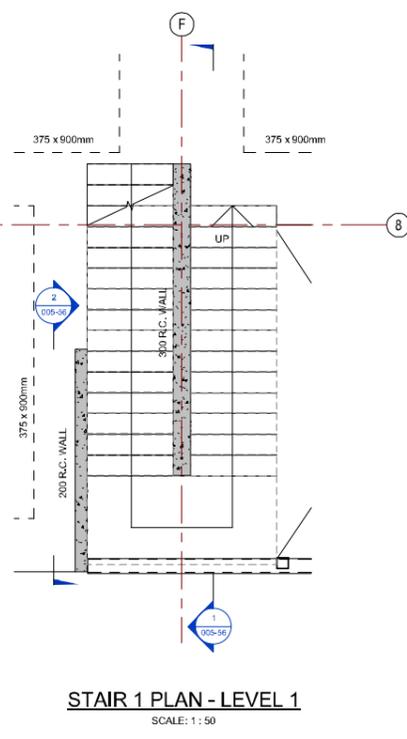
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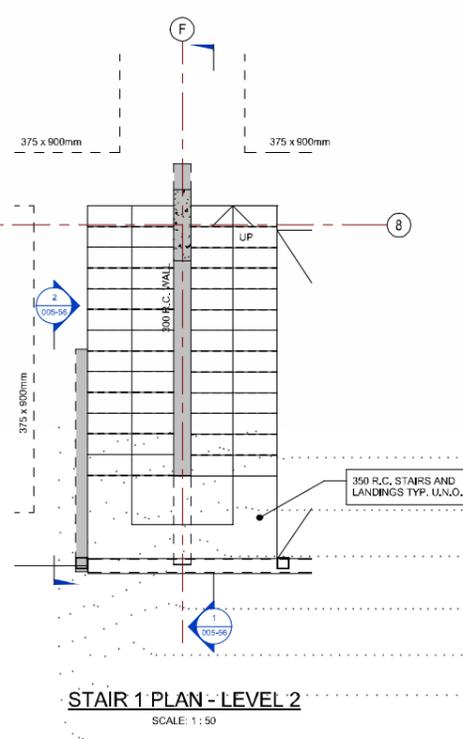
**ISSUE DATE**  
 06.12.17



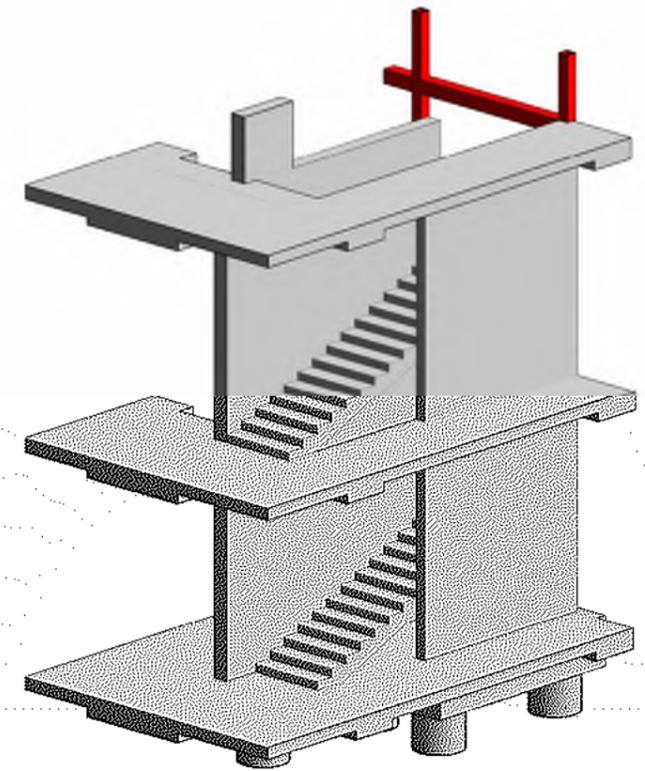
STAIR 1 PLAN - GROUND  
SCALE: 1:50



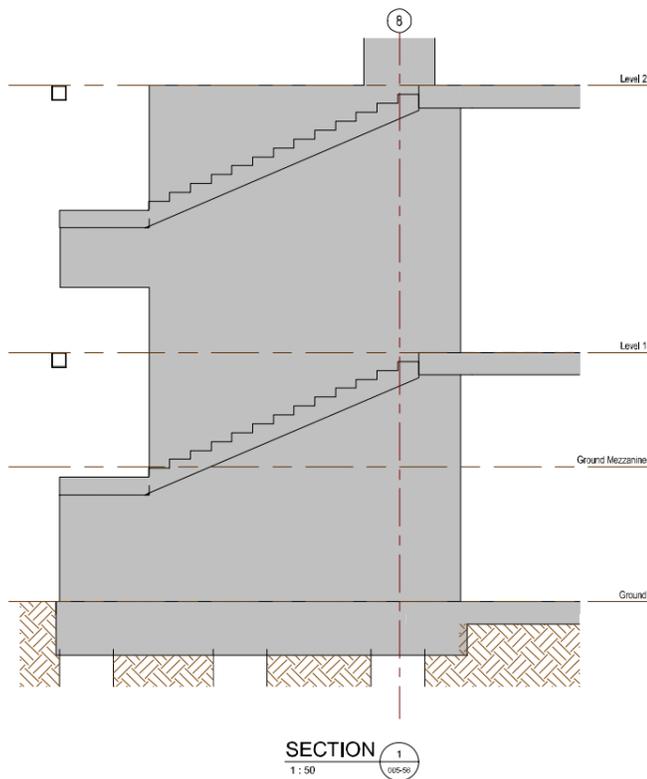
STAIR 1 PLAN - LEVEL 1  
SCALE: 1:50



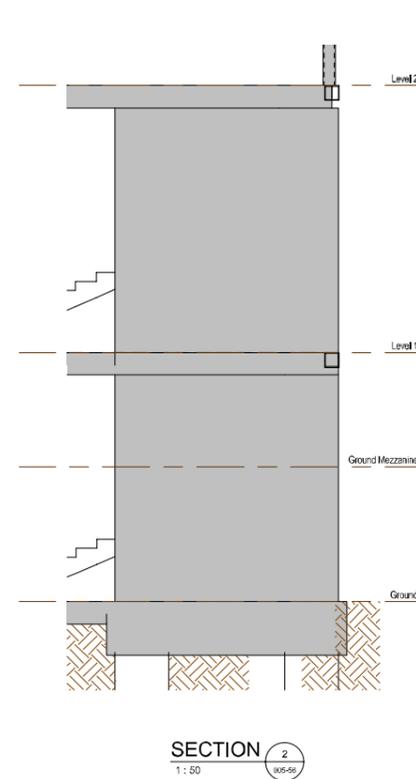
STAIR 1 PLAN - LEVEL 2  
SCALE: 1:50



STAIR 1 - ISOMETRIC  
SCALE:



SECTION 1  
1:50



SECTION 2  
1:50

- R.C. WALL NOTES:**
- REFER TO PART PLANS FOR WALL THICKNESS
  - WALL THICKNESS = 200mm THICK U.N.O.
  - CONCRETE STRENGTH  $f_c = 50$  MPa U.N.O. REFER TO ELEVATION
  - DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND SERVICE ENGINEERS DRAWINGS FOR PENETRATIONS.
  - 100mm AND BELOW PENETRATIONS NOT SHOWN BY THE STRUCTURAL ENGINEER.
  - 125mm AND ABOVE OR ANY GROUPED PENETRATIONS TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL.
  - NO PENETRATIONS THROUGH LINK BEAMS WITHOUT SPECIFIC APPROVAL OF STRUCTURAL ENGINEER.
  - REFER TO DRAWINGS ST-005-51 TO ST-005-53 FOR R.C. WALL DETAILS.
  - REFER TO GENERAL NOTES FOR CONCRETE COVER TO REINFORCEMENT

NO.	DATE	DESCRIPTION
1	19.12.17	ISSUE FOR PERMIT APPLICATION
2	19.12.17	ISSUE FOR CONSTRUCTION
3	19.12.17	ISSUE FOR CONSTRUCTION

**enstruct**  
 structural group (pt) ltd  
 Level 4, 2 Glen Street  
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 Australia  
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 Facsimile (02) 9924 1555  
 http://www.enstruct.com.au

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 NSW Health Infrastructure

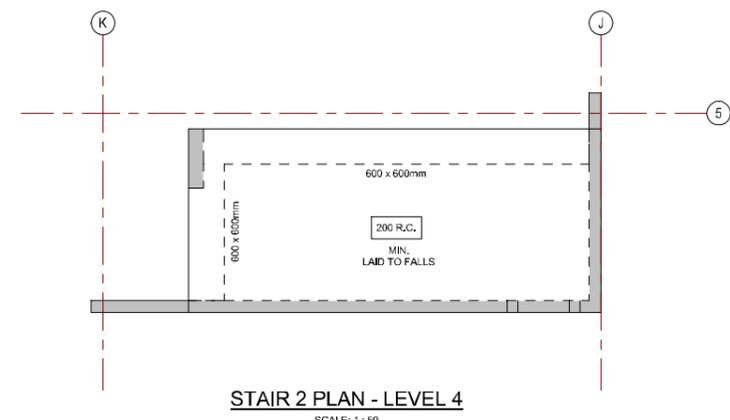
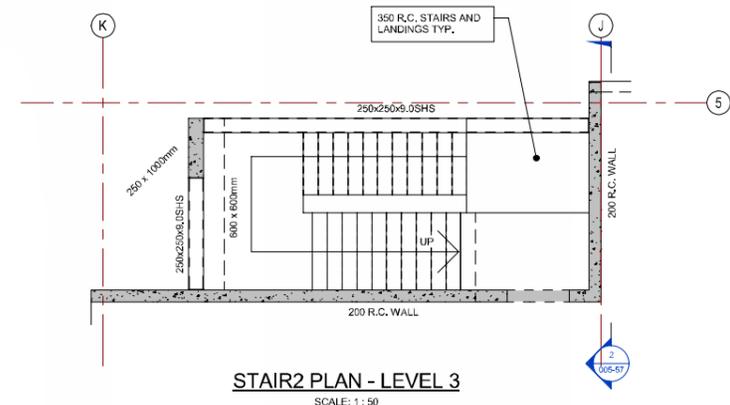
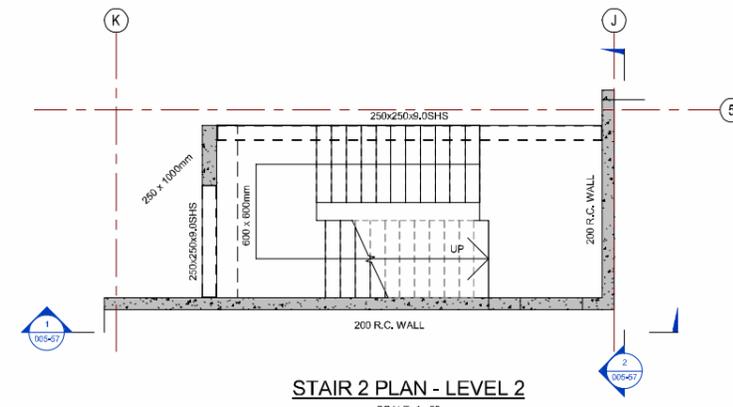
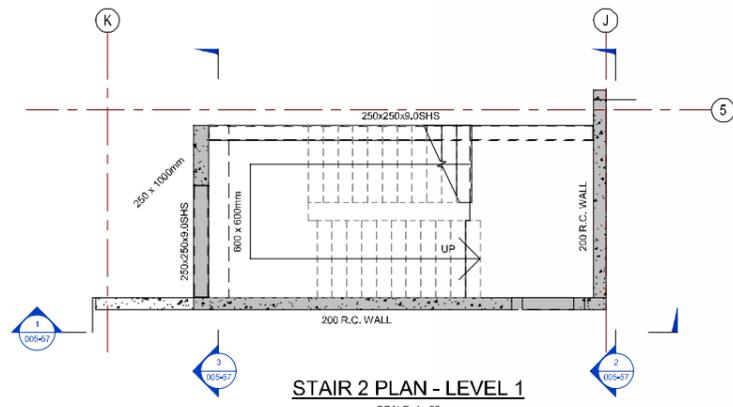
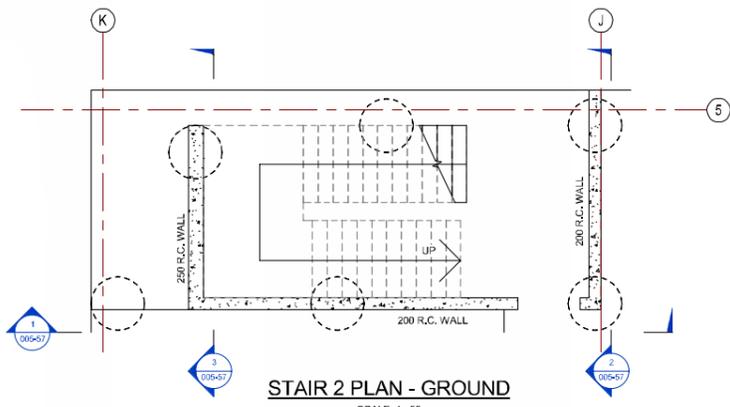
**PROJECT MANAGER**  
 TSA MANAGEMENT

**PROJECT**  
**BOWRAL & DISTRICT HOSPITAL REDEVELOPMENT**  
 97-103 BOWRAL ST,  
 BOWRAL NSW 2576

**DRAWING NUMBER**  
 ENS-ST-DWG-005-56  
**DRAWING NAME**  
 R.C. WALL ELEVATIONS - STAIR 1

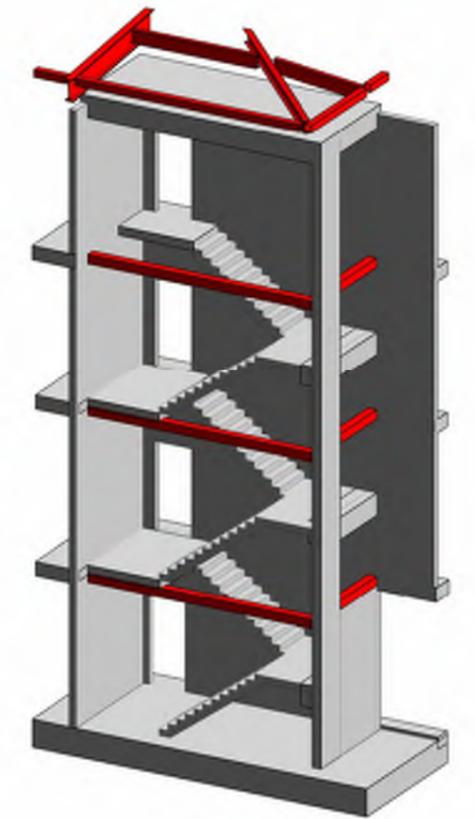
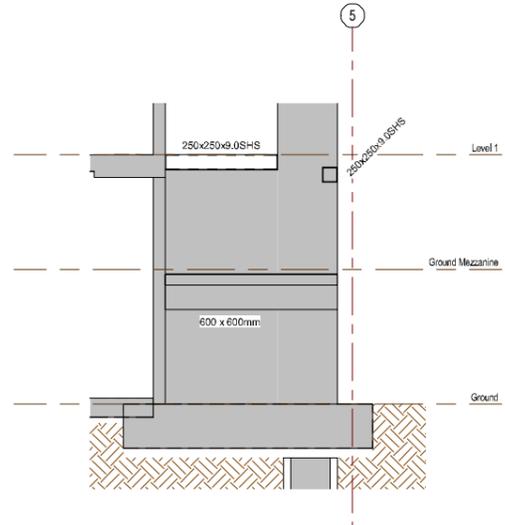
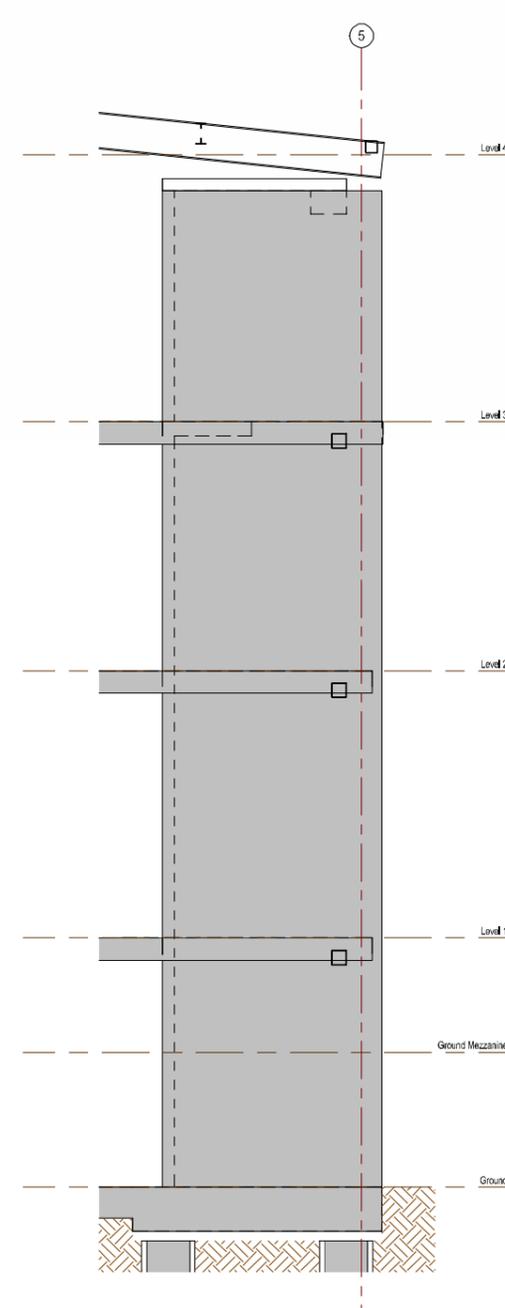
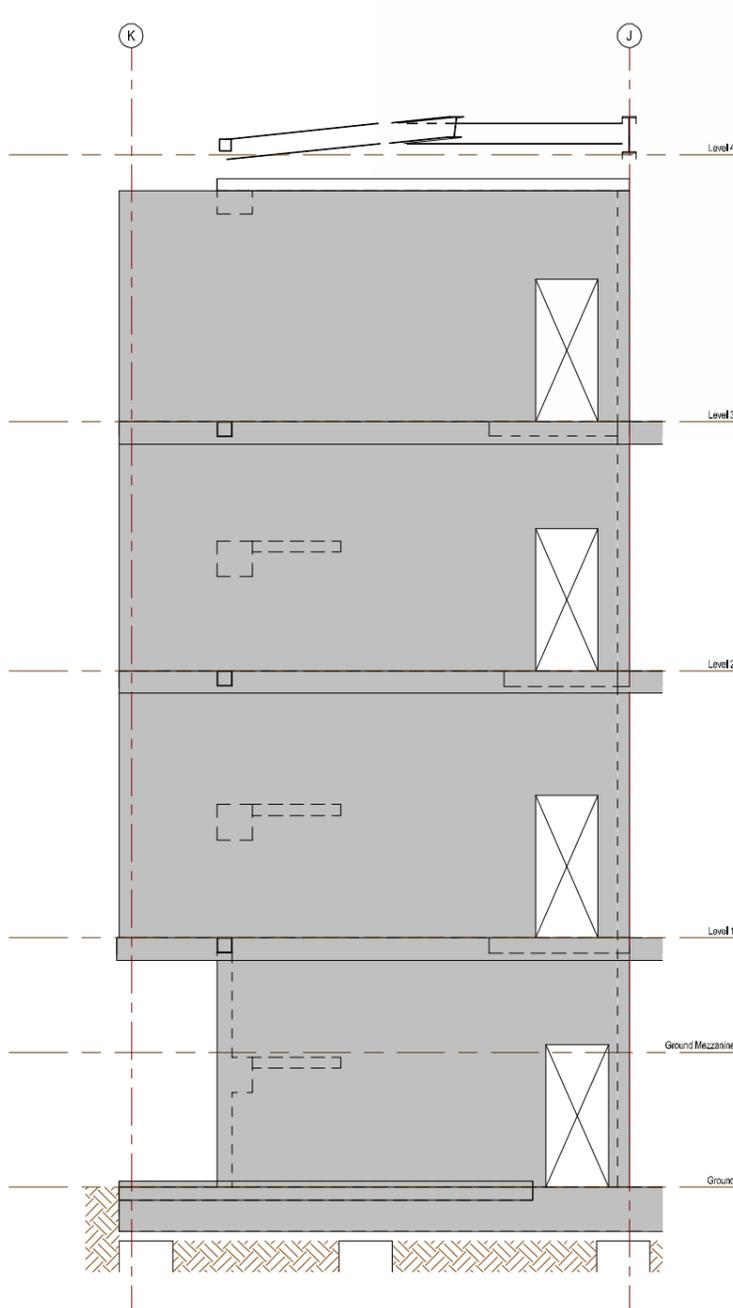
**REV**  
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**ISSUE DATE**  
 19.12.17



**R.C. WALL NOTES:**

- REFER TO PART PLANS FOR WALL THICKNESS
- WALL THICKNESS = 200mm THICK U.N.O.
- CONCRETE STRENGTH  $f_{cc} = 50$  MPa U.N.O. REFER TO ELEVATION
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND SERVICE ENGINEERS DRAWINGS FOR PENETRATIONS.
- 100mm AND BELOW PENETRATIONS NOT SHOWN BY THE STRUCTURAL ENGINEER.
- 125mm AND ABOVE OR ANY GROUPED PENETRATIONS TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- NO PENETRATIONS THROUGH LINK BEAMS WITHOUT SPECIFIC APPROVAL OF STRUCTURAL ENGINEER.
- REFER TO DRAWINGS ST-005-51 TO ST-005-53 FOR R.C. WALL DETAILS.
- REFER TO GENERAL NOTES FOR CONCRETE COVER TO REINFORCEMENT



AMENDMENTS	NO.	DATE	DESCRIPTION
1	10/10/2017	ISSUED FOR PERMIT	
2	10/10/2017	ISSUED FOR PERMIT	
3	10/10/2017	ISSUED FOR PERMIT	

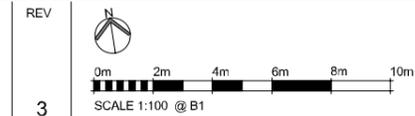
**enstruct**  
STRUCTURAL ENGINEER  
Level 4, 2 Glen Street  
Miltons Point NSW 2061  
Australia  
Telephone (02) 8504 1444  
Facsimile (02) 9924 1555  
http://www.enstruct.com.au

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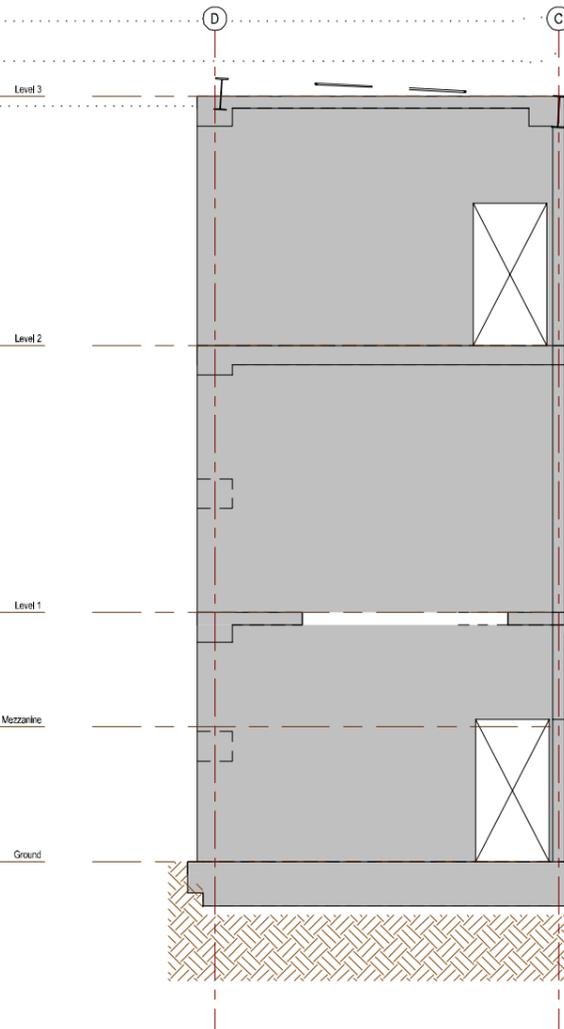
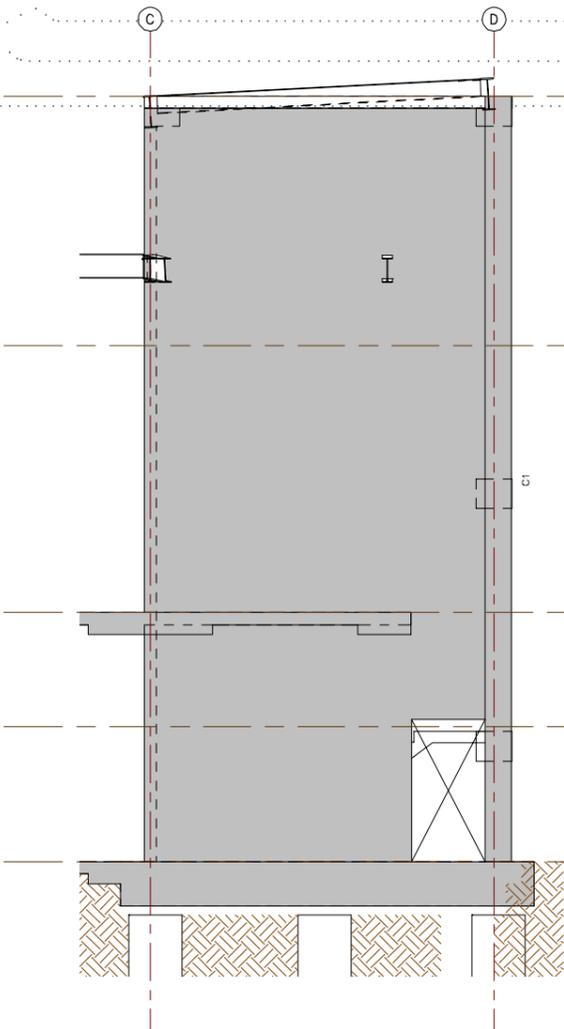
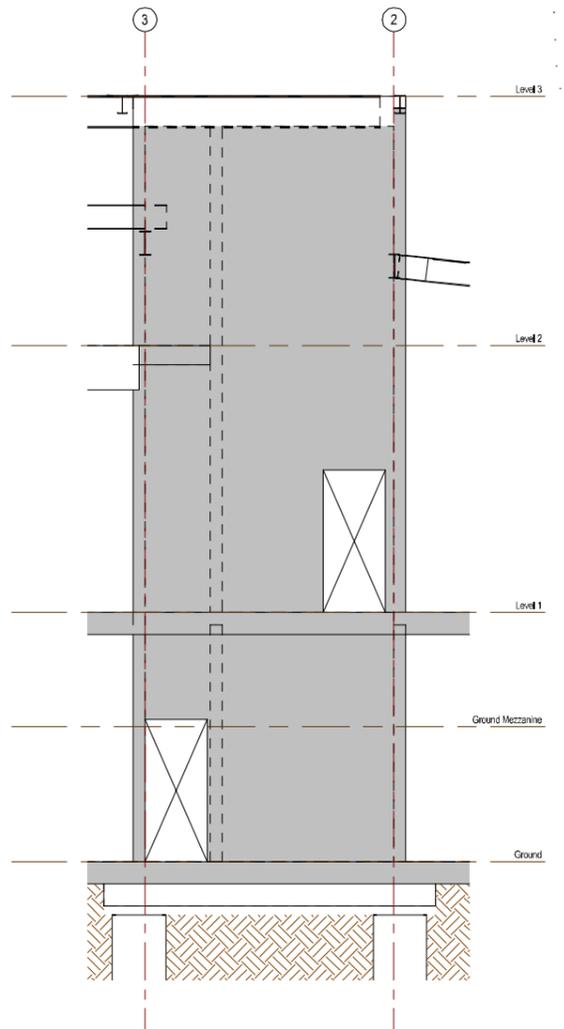
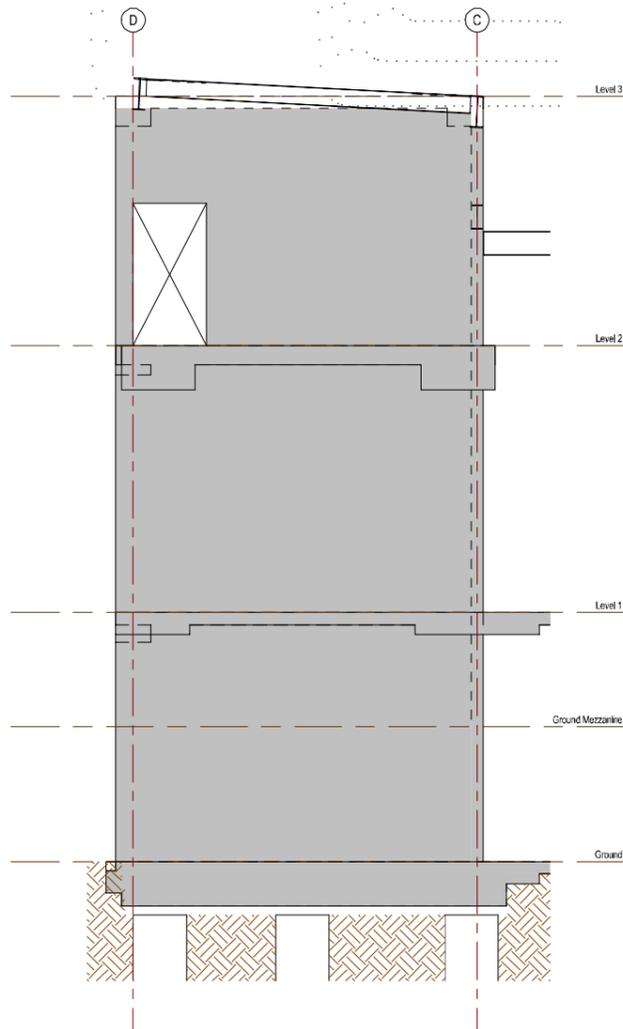
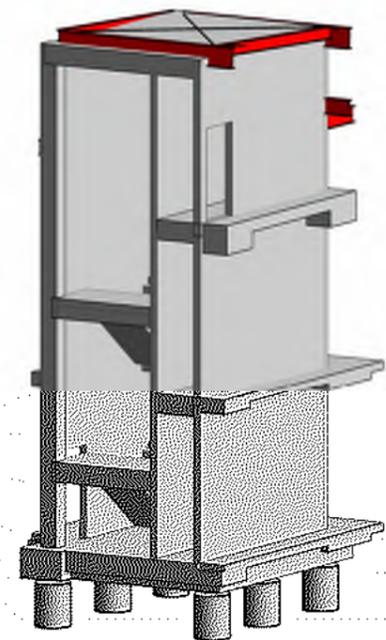
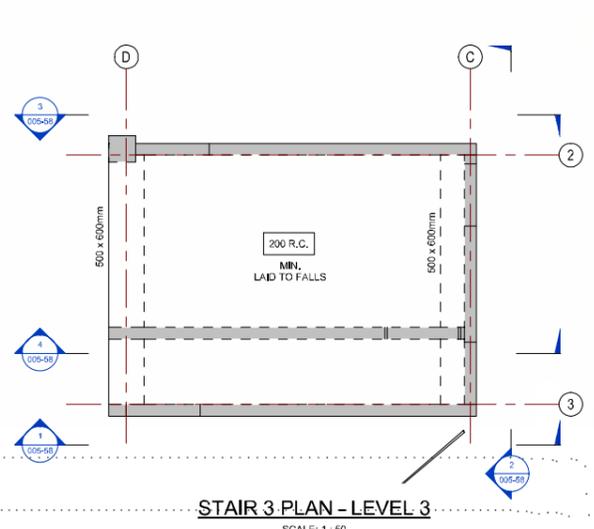
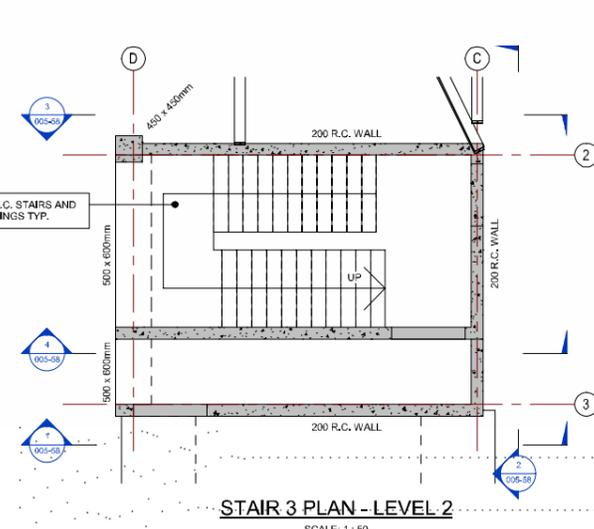
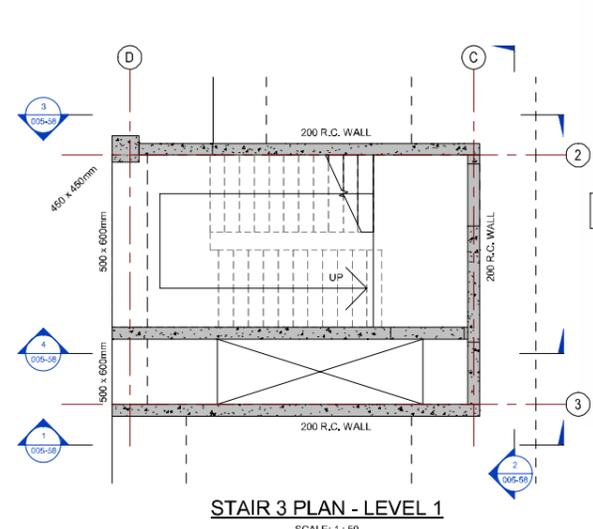
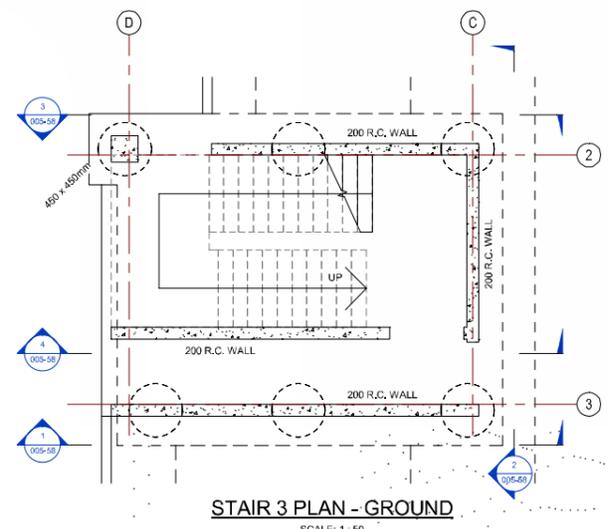
**PROJECT MANAGER**  
TSA MANAGEMENT

**PROJECT**  
**BOWRAL & DISTRICT HOSPITAL REDEVELOPMENT**  
97-103 BOWRAL ST,  
BOWRAL NSW 2576

**DRAWING NUMBER**  
ENS-ST-DWG-005-57  
**DRAWING NAME**  
R.C. WALL ELEVATIONS - STAIR 2



**ISSUE DATE**  
19.12.17



**R.C. WALL NOTES:**

- REFER TO PART PLANS FOR WALL THICKNESS
- WALL THICKNESS = 200mm THICK U.N.O.
- CONCRETE STRENGTH  $f_c = 50$  MPa U.N.O. REFER TO ELEVATION
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND SERVICE ENGINEERS DRAWINGS FOR PENETRATIONS.
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- NO PENETRATIONS THROUGH LINK BEAMS WITHOUT SPECIFIC APPROVAL OF STRUCTURAL ENGINEER.
- REFER TO DRAWINGS ST-005-61 TO ST-005-63 FOR R.C. WALL DETAILS.
- REFER TO GENERAL NOTES FOR CONCRETE COVER TO REINFORCEMENT

AMENDMENTS	DATE	BY	REASON
1	05-26	EN	ISSUE FOR PERMIT
2	05-26	EN	ISSUE FOR PERMIT
3	05-26	EN	ISSUE FOR PERMIT

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**PROJECT MANAGER**  
TSA MANAGEMENT

**PROJECT**  
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BOWRAL NSW 2576

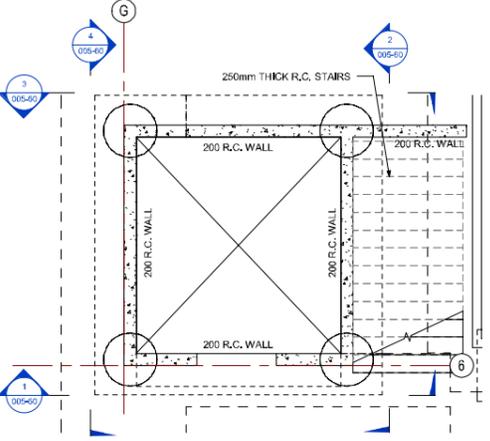
**DRAWING NUMBER**  
ENS-ST-DWG-005-58

**DRAWING NAME**  
R.C. WALL ELEVATIONS - STAIR 3

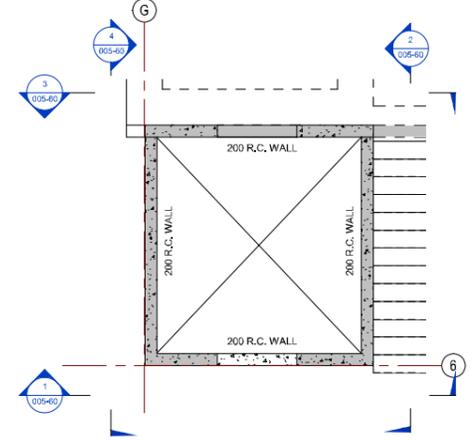
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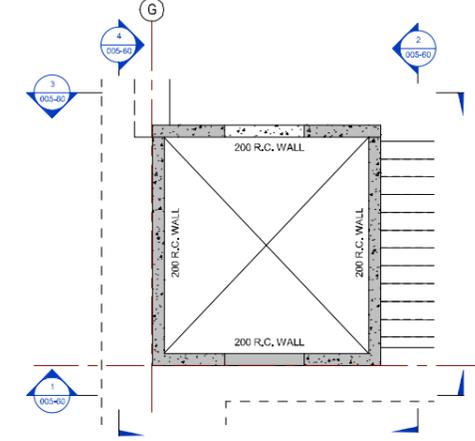
**ISSUE DATE**  
19.12.17



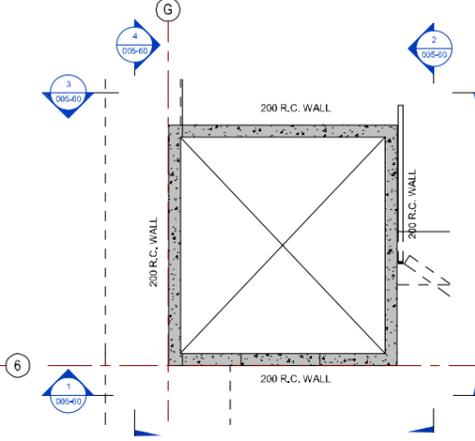
STAFF LIFT PLAN - GROUND  
SCALE: 1:50



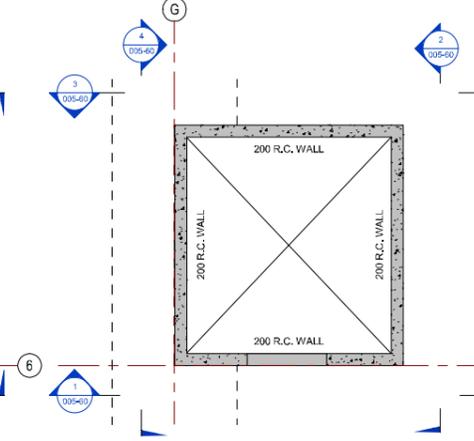
STAFF LIFT PLAN - GROUND FLOOR MEZZANINE  
SCALE: 1:50



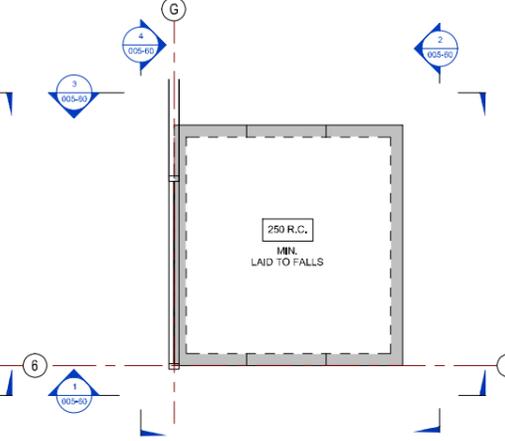
STAFF LIFT PLAN - LEVEL 1  
SCALE: 1:50



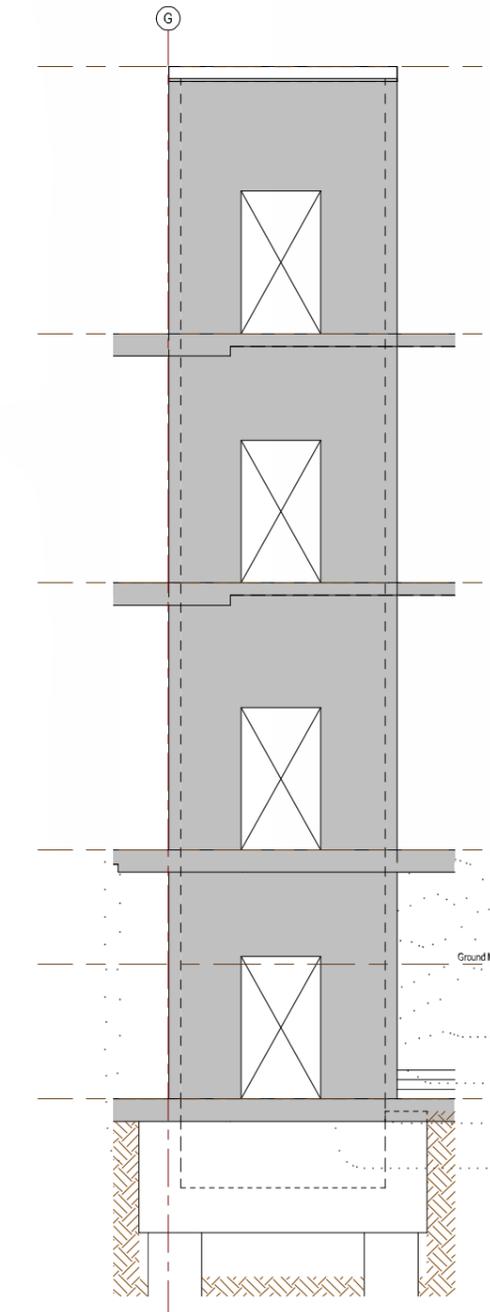
STAFF LIFT PLAN - LEVEL 2  
SCALE: 1:50



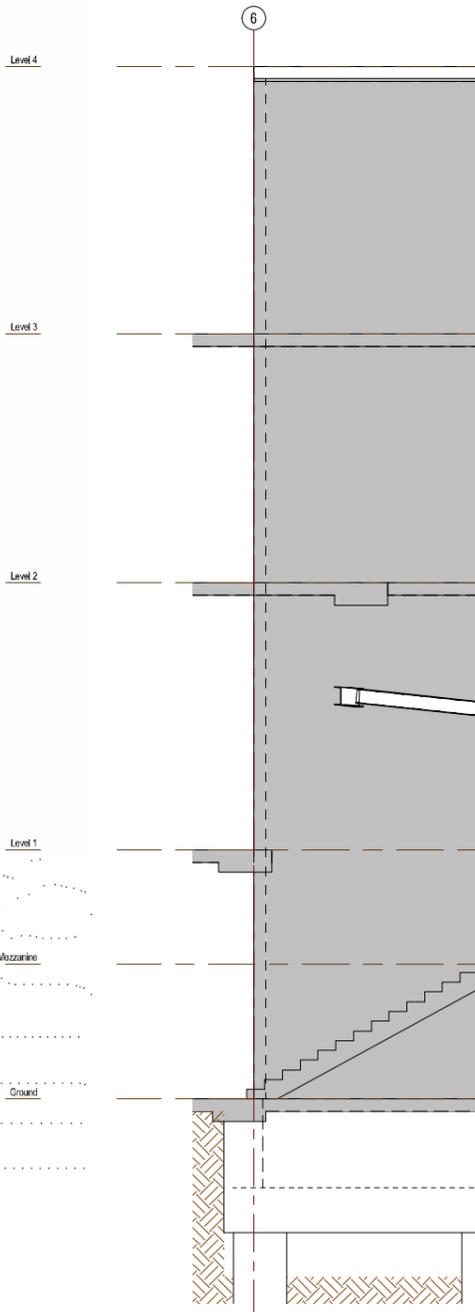
STAFF LIFT PLAN - LEVEL 3  
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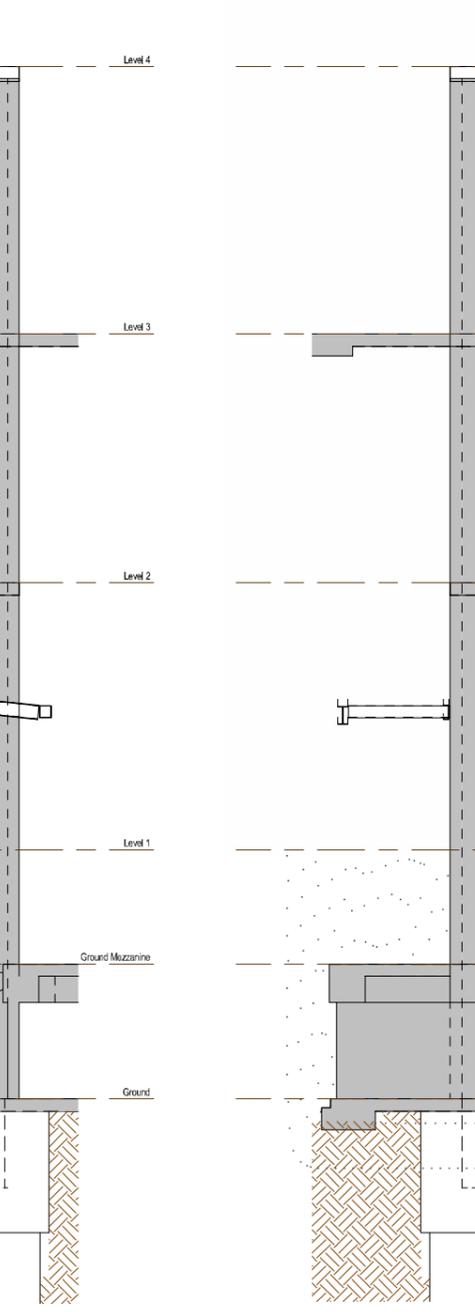
STAFF LIFT PLAN - LEVEL 4  
SCALE: 1:50



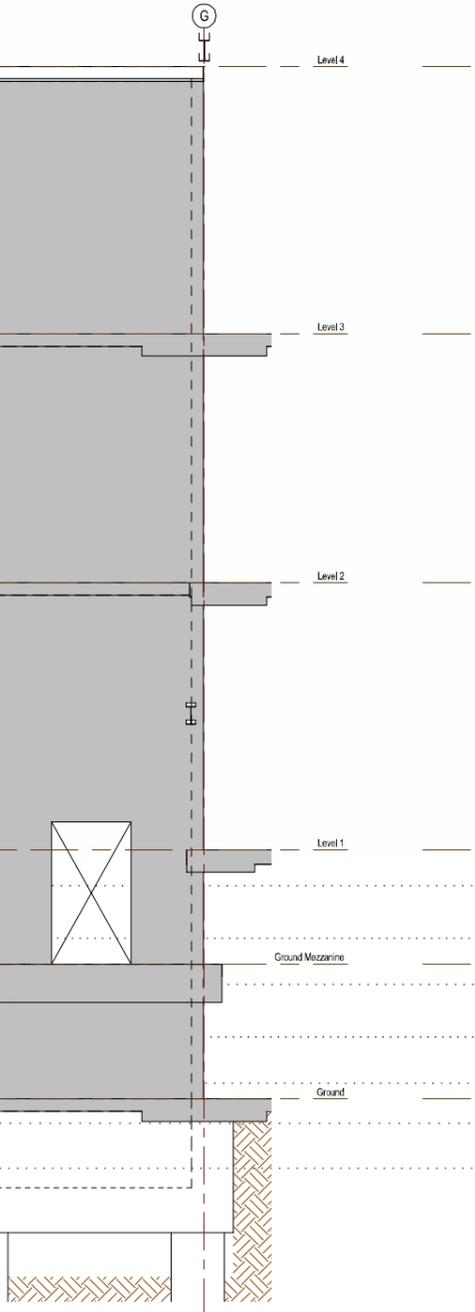
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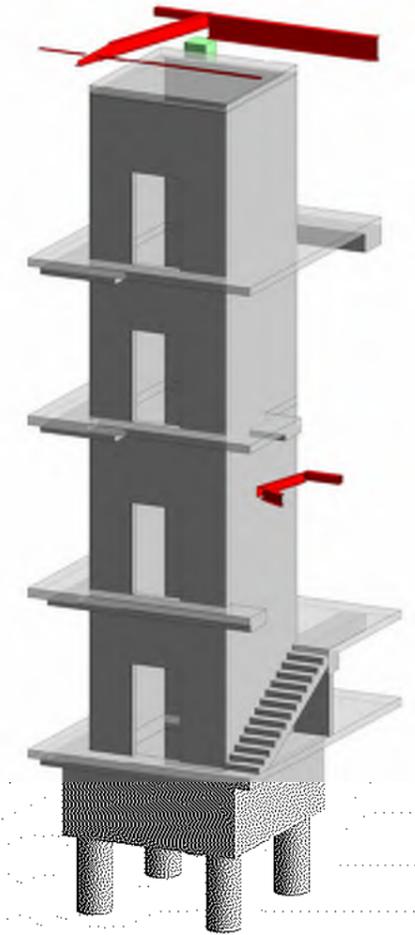
SECTION 2  
1:50



SECTION 3  
1:50



SECTION 4  
1:50



STAFF LIFT - ISOMETRIC  
SCALE:

- R.C. WALL NOTES:**
- REFER TO PART PLANS FOR WALL THICKNESS
  - WALL THICKNESS = 200mm THICK U.N.O.
  - CONCRETE STRENGTH  $f_c = 50$  MPa U.N.O. REFER TO ELEVATION DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND SERVICE ENGINEERS DRAWINGS FOR PENETRATIONS.
  - 100mm AND BELOW PENETRATIONS NOT SHOWN BY THE STRUCTURAL ENGINEER.
  - 120mm AND ABOVE OR ANY GROUPED PENETRATIONS TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL.
  - NO PENETRATIONS THROUGH LINK BEAMS WITHOUT SPECIFIC APPROVAL OF STRUCTURAL ENGINEER.
  - REFER TO DRAWINGS ST-005-S1 TO ST-005-S3 FOR R.C. WALL DETAILS.
  - REFER TO GENERAL NOTES FOR CONCRETE COVER TO REINFORCEMENT

AMENDMENTS	NO.	DATE	DESCRIPTION
1	01/12/17	ISSUE FOR TENDER	
2	01/12/17	ISSUE FOR TENDER	
3	01/12/17	ISSUE FOR TENDER	

**enstruct**  
 structural engineer  
 Level 4, 2 Glen Street  
 Maitland NSW 2091  
 Australia  
 Telephone (02) 8504 1444  
 Facsimile (02) 8504 1555  
 http://www.enstruct.com.au

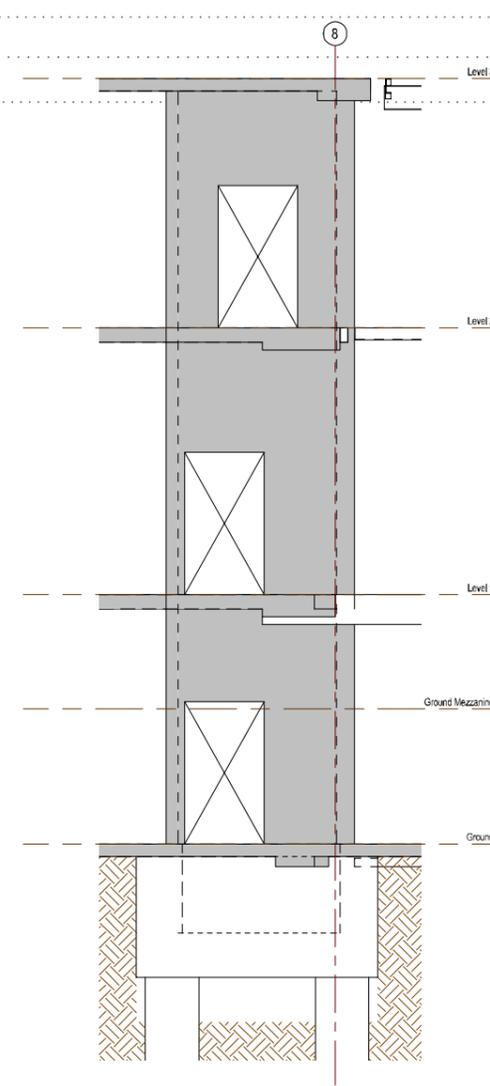
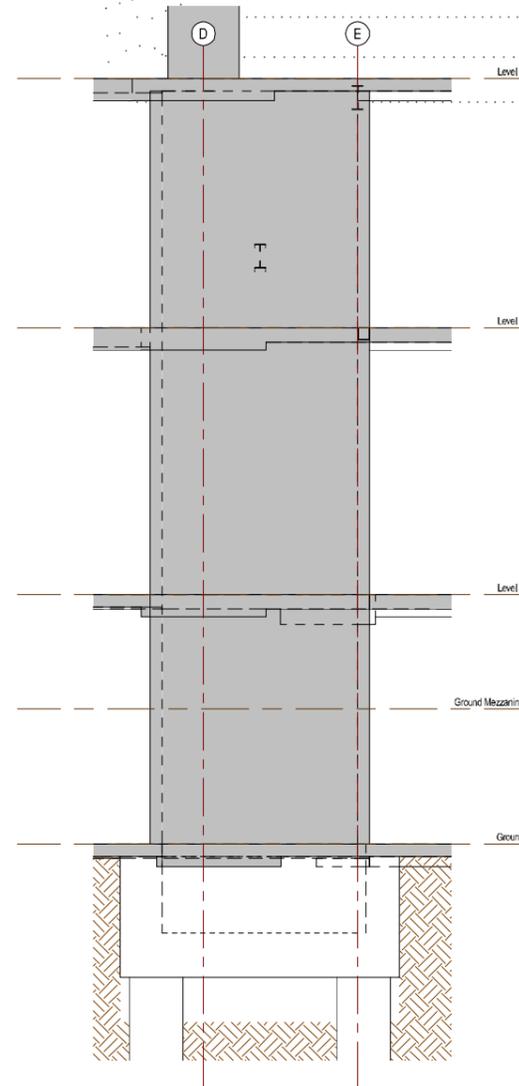
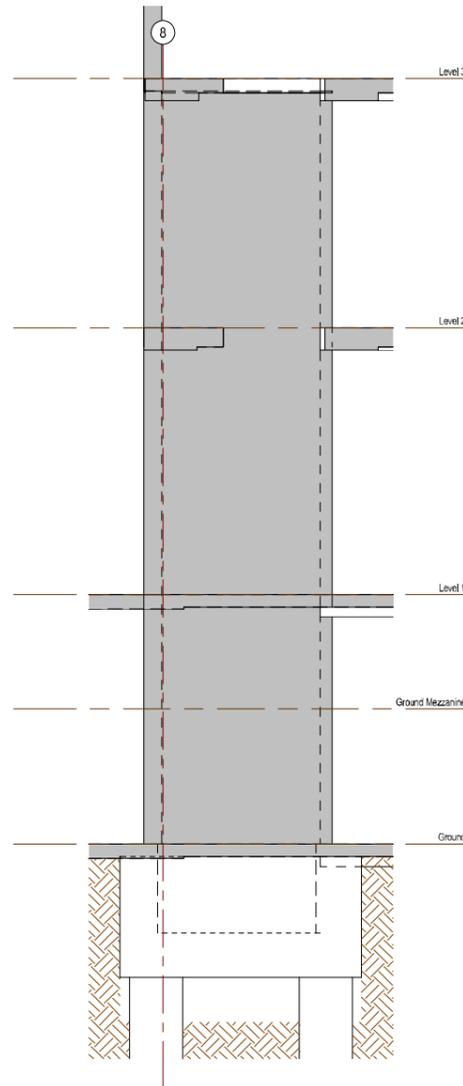
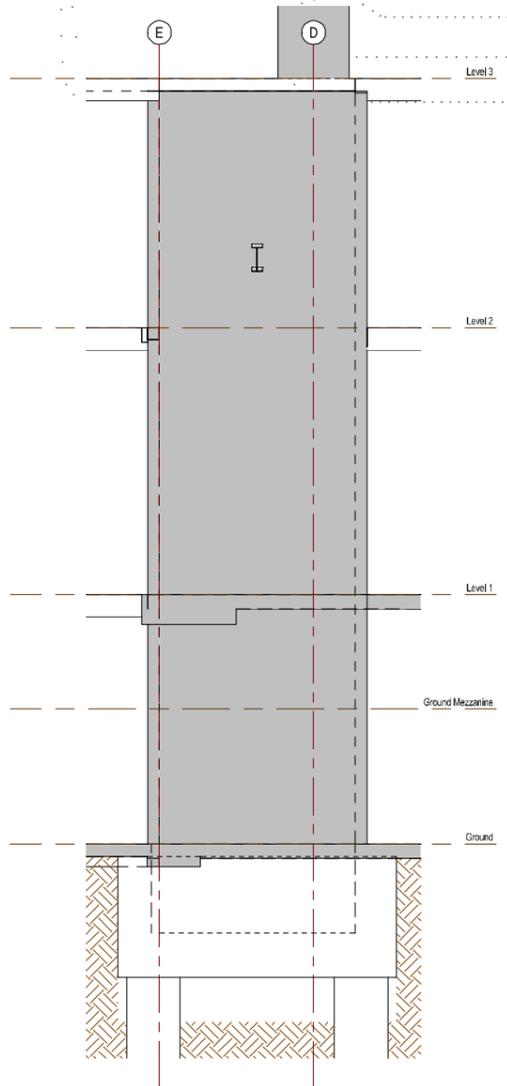
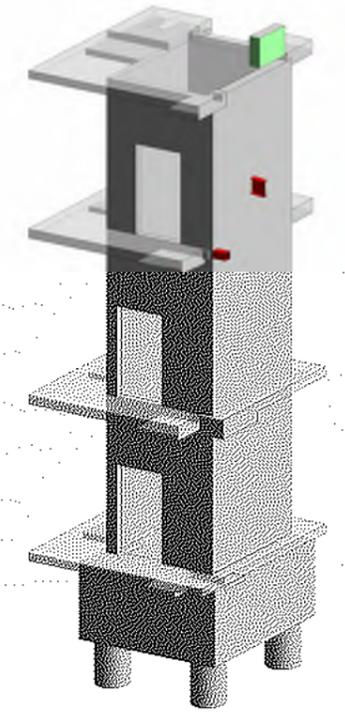
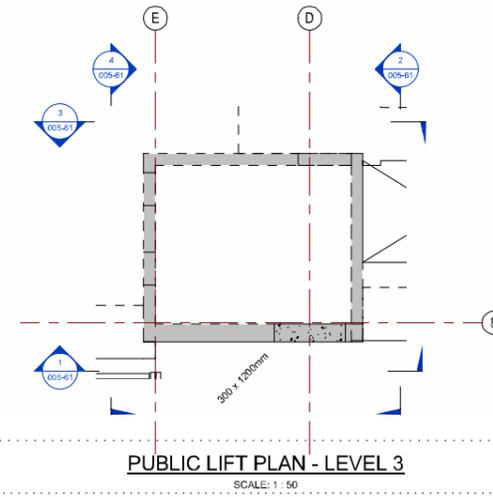
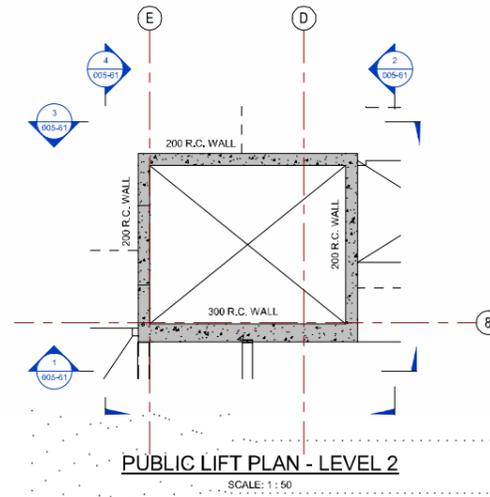
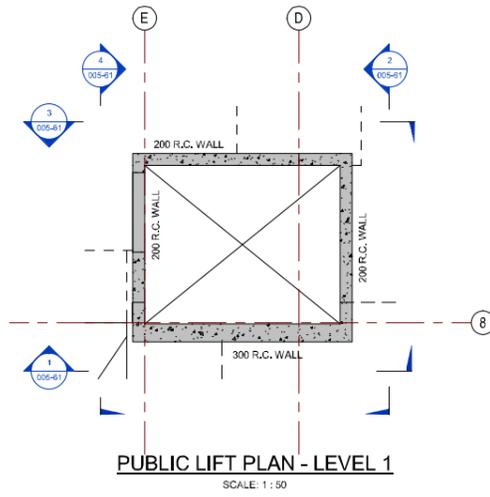
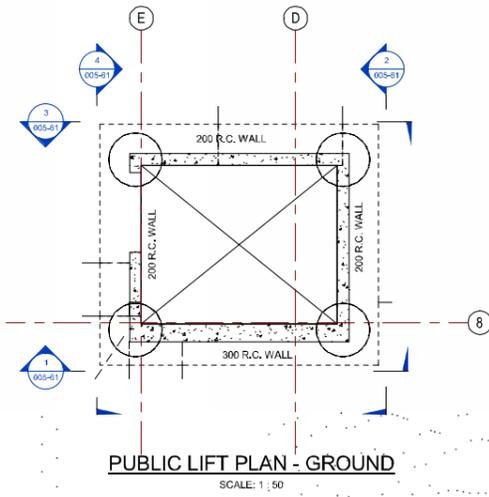
**TSA**  
 MANAGEMENT

**BOWRAL & DISTRICT HOSPITAL REDEVELOPMENT**  
 97-103 BOWRAL ST,  
 BOWRAL NSW 2576

DRAWING NUMBER  
**ENS-ST-DWG-005-60**  
 DRAWING NAME  
**R.C. WALL ELEVATIONS - STAFF LIFT**

REV  
**3**  
 SCALE 1:100 @ B1

ISSUE DATE  
**19.12.17**



**R.C. WALL NOTES:**

- REFER TO PART PLANS FOR WALL THICKNESS
- WALL THICKNESS = 200mm THICK U.N.O.
- CONCRETE STRENGTH  $f_c = 50$  MPa U.N.O. REFER TO ELEVATION
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND SERVICE ENGINEERS DRAWINGS FOR PENETRATIONS.
- 100mm AND BELOW PENETRATIONS NOT SHOWN BY THE STRUCTURAL ENGINEER.
- 125mm AND ABOVE OR ANY GROUPED PENETRATIONS TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL.
- NO PENETRATIONS THROUGH LINK BEAMS WITHOUT SPECIFIC APPROVAL OF STRUCTURAL ENGINEER.
- REFER TO DRAWINGS ST-005-61 TO ST-005-63 FOR R.C. WALL DETAILS.
- REFER TO GENERAL NOTES FOR CONCRETE COVER TO REINFORCEMENT

AMENDMENTS	NO.	DATE	DESCRIPTION
1	05-11-2017	ISSUED FOR TENDER	
2	05-11-2017	ISSUED FOR TENDER	
3	05-11-2017	ISSUED FOR TENDER	

**STRUCTURAL ENGINEER**  
**enstruct**  
enstruct group Pty Ltd  
Level 4, 2 Glen Street  
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**CLIENT**  
NSW Health Infrastructure

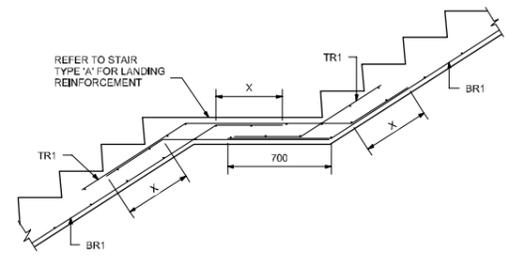
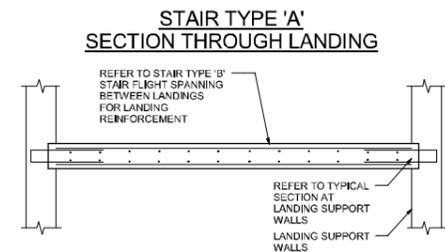
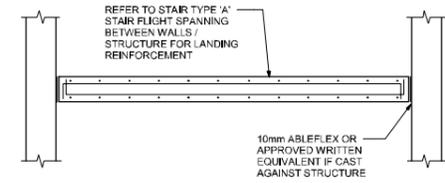
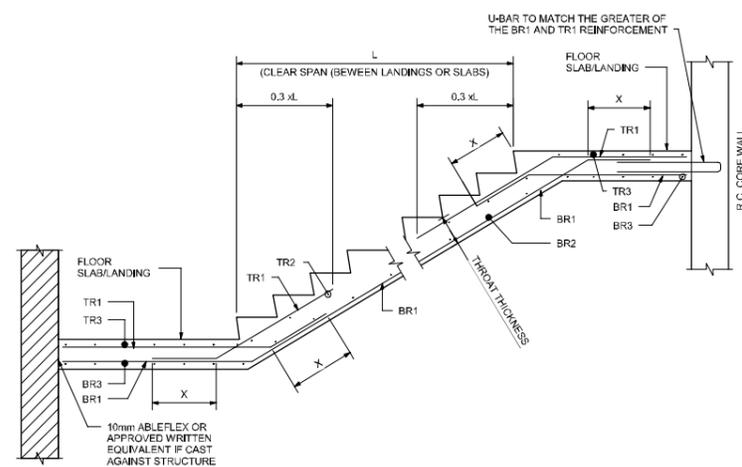
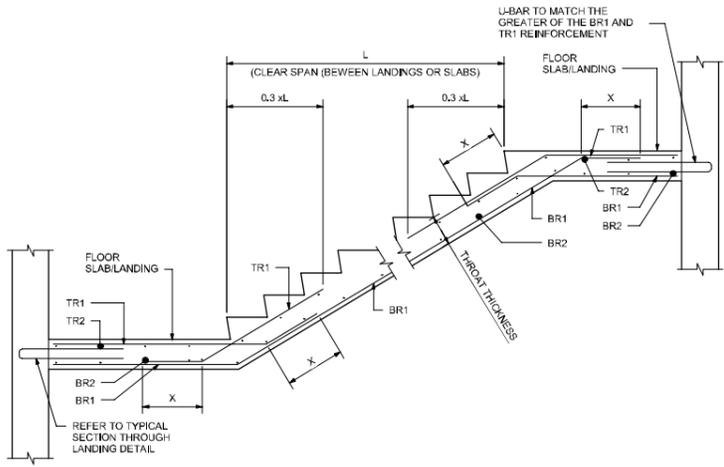
**PROJECT MANAGER**  
TSA MANAGEMENT

**PROJECT**  
**BOWRAL & DISTRICT HOSPITAL REDEVELOPMENT**  
97-103 BOWRAL ST,  
BOWRAL NSW 2576

**DRAWING NUMBER**  
ENS-ST-DWG-005-61  
**DRAWING NAME**  
R.C. WALL ELEVATIONS - PUBLIC LIFT

**REV**  
3  
N  
0m 2m 4m 6m 8m 10m  
SCALE 1:100 @ B1

**ISSUE DATE**  
19.12.17



**STAIR TYPE 'A'**  
**STAIR FLIGHT SPANNING BETWEEN WALLS / STRUCTURE**

- STAIR THROAT THICKNESS TO BE 180mm UNLESS OTHERWISE NOTED ON THE STAIR ELEVATIONS
- ALL LANDINGS TO BE 200mm MINIMUM OR THE GREATER OF THE TWO ADJACENT FLIGHTS (U.N.O.)
- MAIN REINFORCEMENT BARS TO BE N16-200 TOP & BOTTOM (U.N.O.), PROVIDE N12-250 DISTRIBUTION REINFORCEMENT BARS TOP AND BOTTOM (U.N.O.)
- COVER TO REINFORCEMENT TO BE 25mm TOP & BOTTOM
- CONCRETE STRENGTH (f<sub>c</sub>) = 40 MPa
- FOR REINFORCEMENT BAR DESIGNATIONS REFER TO STAIR ELEVATIONS DRAWINGS FOR REINFORCEMENT SCHEDULE

**STAIR TYPE 'B'**  
**STAIR FLIGHT SPANNING BETWEEN LANDINGS**

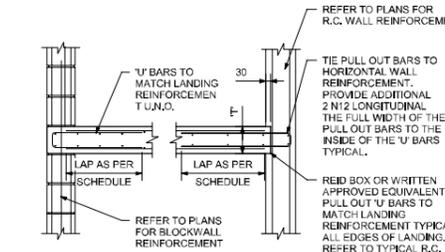
- STAIR THROAT THICKNESS TO BE 180mm UNLESS OTHERWISE NOTED ON THE STAIR ELEVATIONS
- ALL LANDINGS TO BE 200mm MINIMUM OR THE GREATER OF THE TWO ADJACENT FLIGHTS (U.N.O.)
- MAIN REINFORCEMENT BARS TO BE N16-200 TOP & BOTTOM (U.N.O.), PROVIDE N12-250 DISTRIBUTION REINFORCEMENT BARS TOP AND BOTTOM (U.N.O.)
- COVER TO REINFORCEMENT TO BE 25mm TOP & BOTTOM
- CONCRETE STRENGTH (f<sub>c</sub>) = 40 MPa
- FOR REINFORCEMENT BAR DESIGNATIONS REFER TO STAIR ELEVATIONS DRAWINGS FOR REINFORCEMENT SCHEDULE

**REINFORCEMENT LAP SCHEDULE**

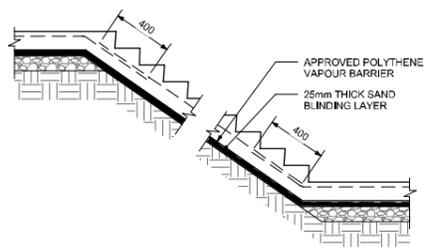
BAR	LAP LENGTH 'X' (mm)
N12	500
N16	650
N20	800

**REINFORCEMENT LAP SCHEDULE**

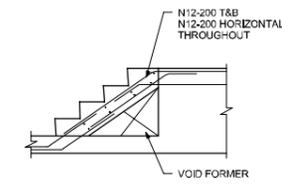
BAR	LAP LENGTH 'X' (mm)
N12	500
N16	650
N20	800



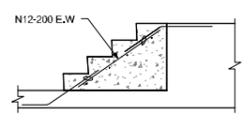
**TYPICAL SECTION AT LANDING SUPPORT WALLS**



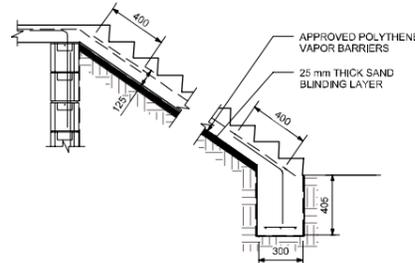
**TYPICAL STAIR ON GRADE SECTION**  
SCALE= 1:20



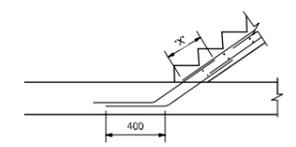
**VOID FORMER STAIR**  
SCALE= 1:20



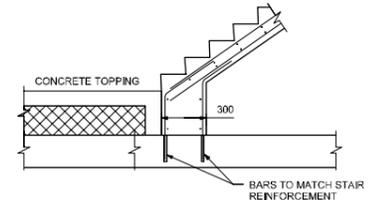
**MASS CONCRETE STAIR**  
SCALE= 1:20



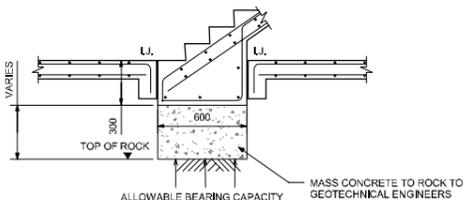
**TYPICAL STAIR ON GRADE SECTION**  
SCALE= 1:20



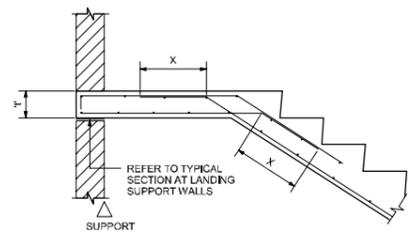
**TYPICAL DETAIL AT STAIR BASE**  
**TYPICAL STAIR BASE DETAILS**



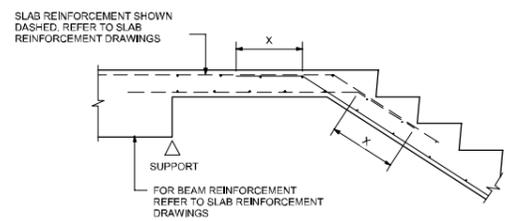
**TYPICAL STAIR TURNDOWN AT CONCRETE TOPPING**



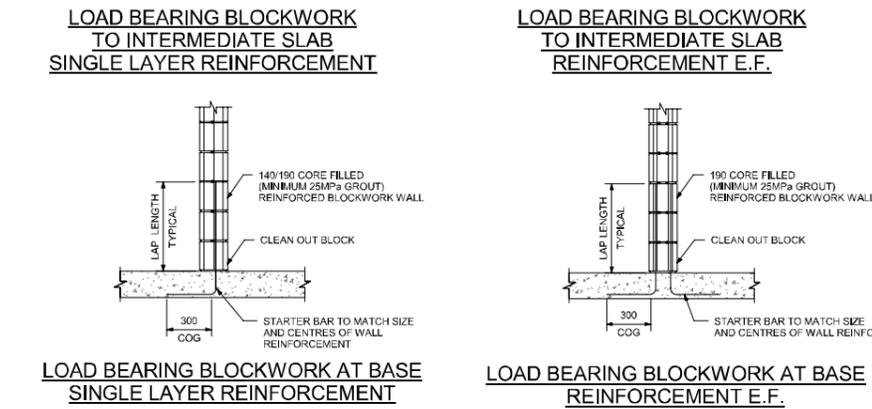
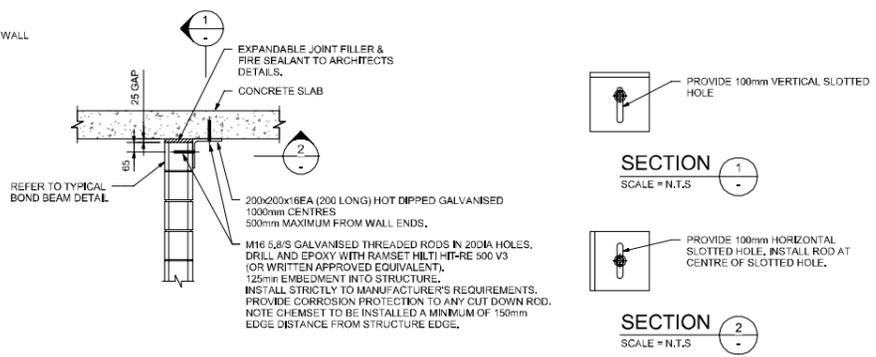
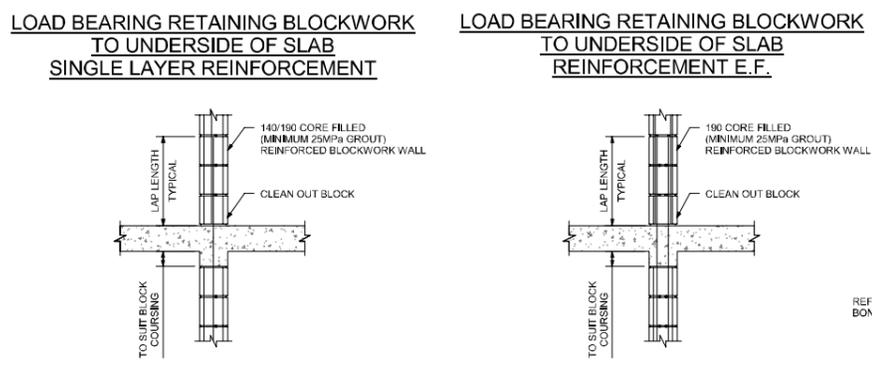
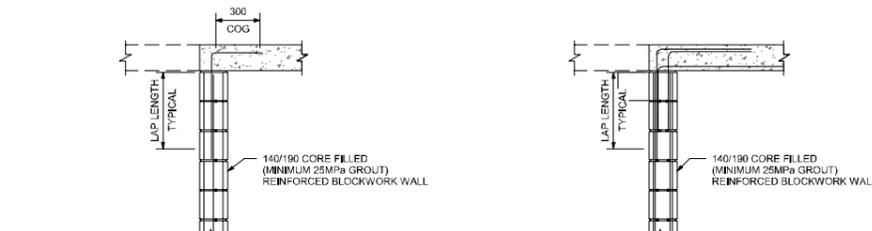
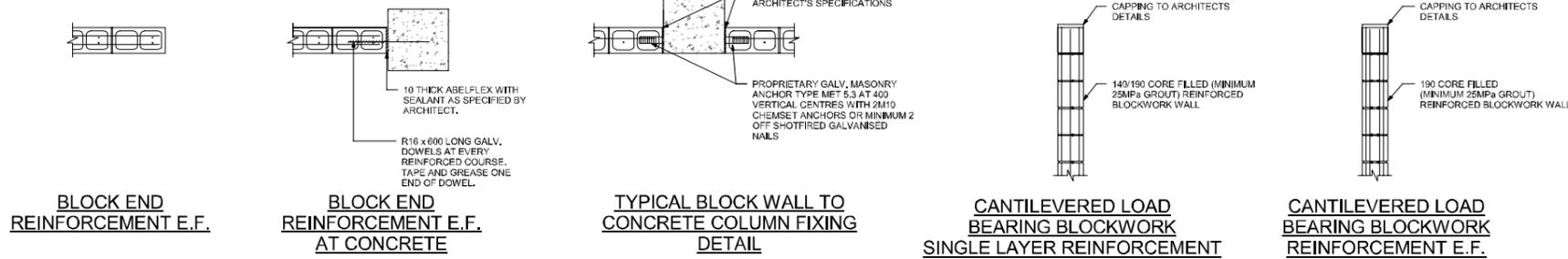
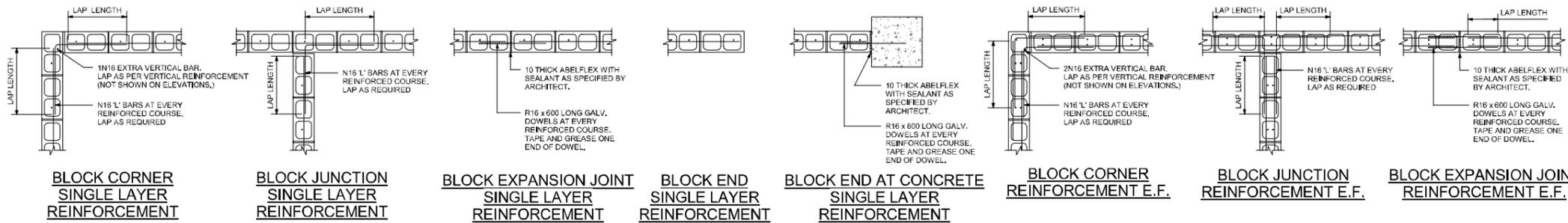
**STAIRS POURED ONTO ROCK BASE**



**TYPICAL STAIR SUPPORT DETAILS**  
BLOCKWORK WALL



R.C. BEAM

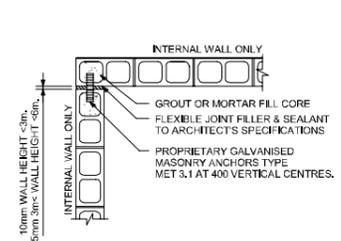


**REINFORCED MASONRY LAP SCHEDULE**

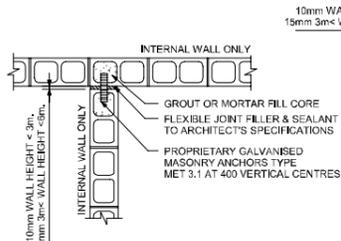
20mm COVER TO REINFORCEMENT - 25MPa GROUT

SIZE	L <sub>syt</sub>	1.3 L <sub>syt</sub>
N12	650	850
N16	850	1250
N20	1250	1700

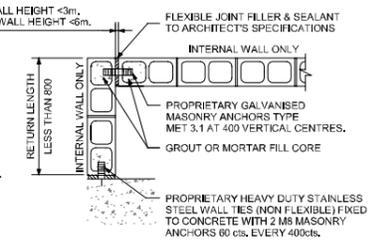
USE 1.3 L<sub>syt</sub> FOR ALL HORIZONTAL REINFORCEMENT WHEN MORE THAN 300mm OF CONCRETE IS CAST BELOW THE BAR



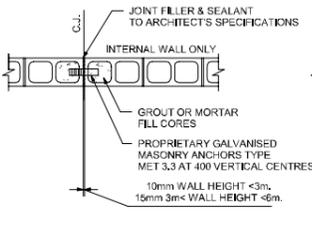
**BLOCK CORNER**  
INTERNAL WALLS  
• MINIMUM 1000mm RETURN



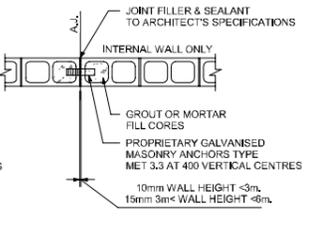
**BLOCK JUNCTION**  
INTERNAL WALLS  
• MINIMUM 1000mm RETURN



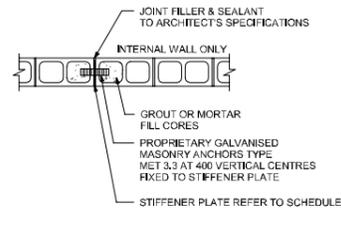
**RESTRAINT TO WALL WITH SHORT RETURN**  
INTERNAL WALLS



**CONTRACTION JOINT (C.J.) IN UN-REINFORCED BLOCK WALL**  
INTERNAL WALLS



**ARTICULATION JOINT (A.J.) IN UN-REINFORCED BLOCK WALL**  
INTERNAL WALLS

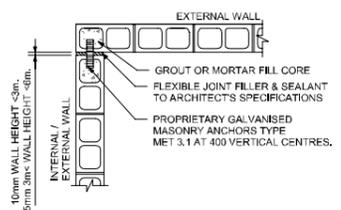


**STIFFENER IN UN-REINFORCED BLOCK WALL**  
INTERNAL WALLS

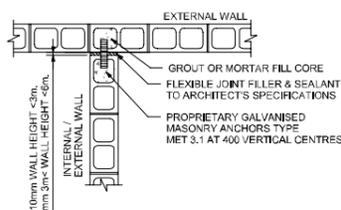
- REFER TO TYPICAL C.J. NOTES
- 6m MAX. SPACINGS
- CONTRACTION JOINTS TO BE AT LOCATIONS NOMINATED ON ARCHITECTURAL DRAWINGS.
- CONTRACTION JOINTS TO ALIGN WITH SLAB JOINTS IN SLAB ON GRADE & MOVEMENT JOINTS IN SUSPENDED SLABS

- REFER TO TYPICAL A.J. NOTES
- 6m MAX. SPACINGS

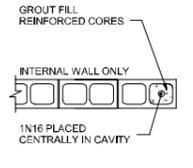
- REFER TO TYPICAL A.J. NOTES
- 6m MAX. SPACINGS



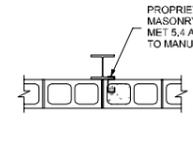
**BLOCK CORNER**  
EXTERNAL WALLS



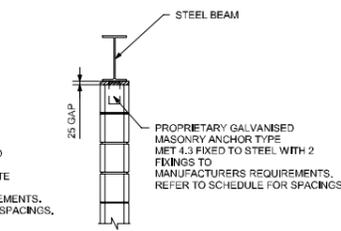
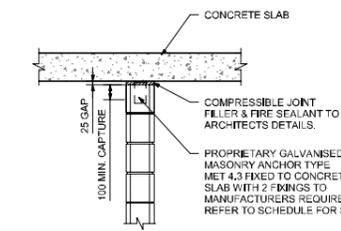
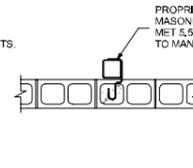
**BLOCK JUNCTION**  
EXTERNAL WALLS



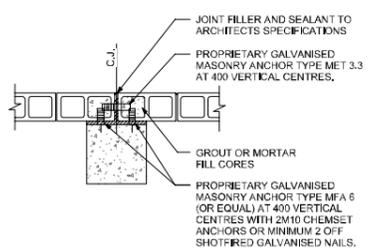
**BLOCK END**  
INTERNAL WALLS



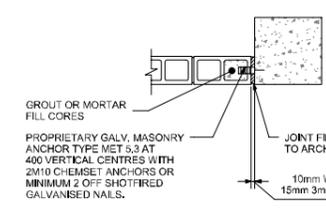
**TYPICAL EXPANSION TIE FOR BLOCKWORK/BRICKWORK TO COLUMN DETAILS**  
INTERNAL WALLS



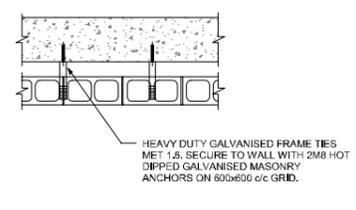
HEAD RESTRAINT FIXING SCHEDULE	
WALL HEIGHT (m)	FIXING SPACING (mm)
INTERNAL NON-PRESSURISED WALLS	
0-5.5	600
5.5-9.0	200



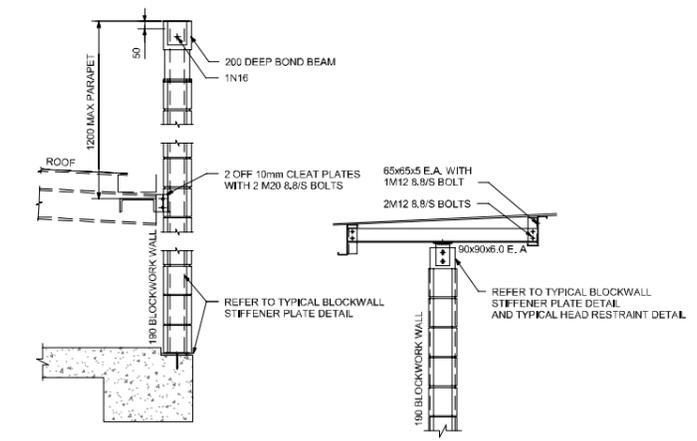
**ALTERNATE CONTRACTION JOINT (C.J.) AT R.C. COLUMN OR WALLS**  
INTERNAL WALLS



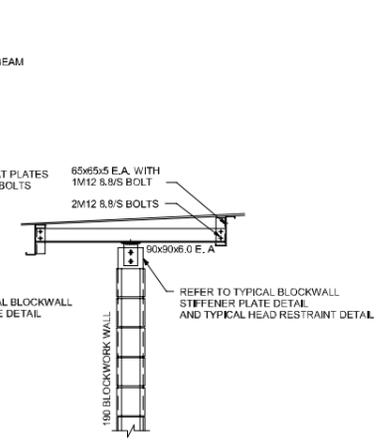
**CONTRACTION JOINT (C.J.) AT R.C. COLUMN OR WALLS**  
INTERNAL WALLS



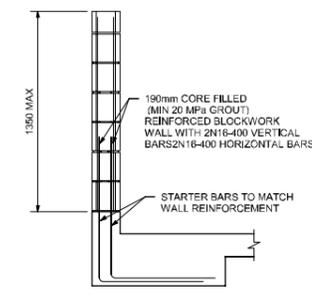
**PLAN-RESTRAINT TO BLOCKWALL, WALL ADJACENT TO R.C. WALL**  
INTERNAL WALLS



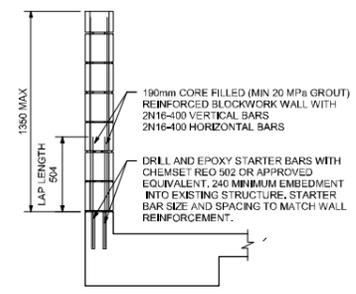
**TYPICAL EXTERNAL BLOCKWALL WITH PARAPET**



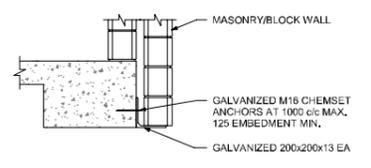
**TYPICAL BLOCKWALL PARALLEL TO PURLINS**



**TYPICAL BLOCKWORK CRASH BARRIER DETAIL**  
SCALE = 1:20

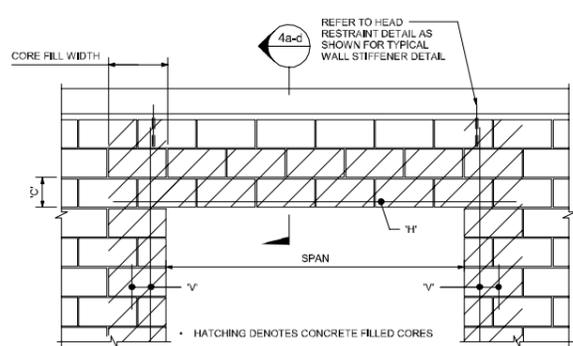


**TYPICAL BLOCKWORK CRASH BARRIER DETAIL AT EXISTING STRUCTURE**  
SCALE = 1:20



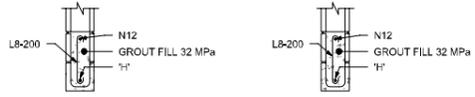
**TYPICAL SHELF ANGLE BLOCKWALL SUPPORT DETAIL**  
SCALE = 1:20

- NOTES:**
- CONTRACTION JOINTS (C.J.) TO BE AT 6.0m SPACING MAXIMUM
  - CONTRACTION JOINTS (C.J.) TO ALIGN WITH SLAB JOINTS IN SLAB ON GRADE AND MOVEMENT JOINTS IN SUSPENDED SLABS.
  - CONTRACTION JOINTS TO BE AT LOCATIONS NOMINATED ON ARCHITECTURAL DRAWINGS.
  - ALL PROPRIETARY MASONRY ANCHORS TO BE M.E.T. PIL OR APPROVED EQUIVALENT
  - ALL BLOCKWORK TO COMPLY WITH AS 3700
  - ALL MASONRY FIXINGS, BOLTS, PLATES, ECT TO BE HOT DIPPED GALVANISED
  - MASONRY UNITS TO HAVE MINIMUM UNCONFINED COMPRESSIVE STRENGTH  $f_{cu} \geq 15 MPa$
  - MORTAR CLASSIFICATION - M3 Min - REFER TO PROJECT SPECIFICATION.
  - ALL WALL TIES TO BE HEAVY DUTY GALVANISED
  - ALL MASONRY UNITS SHALL BE LAID IN STRETCHER BOND
  - JOINTS TO BE RODDED TO A MAX. DEPTH OF 3mm
  - ALL GROUT AND MORTAR USED TO FILL CORES TO HAVE 300 kg/m<sup>3</sup> OF GB OR GP CEMENT CONTENT MINIMUM.



**TYPICAL LINTEL DETAIL  
(NON LOAD BEARING BLOCKWORK)**

NON LOAD BEARING BLOCKWORK						
WALL	SPAN	BAR 'H'	BAR 'V'	CORE FILL DEPTH	'C' COURSES	REF. SECTIONS
140	1.2 m	1N12	N16-200 CENTRAL	400	2	4a
140	2.4 m	1N16	N16-200 CENTRAL	400	2	4b
190	4.5 m	1N20	N16-400 EACH FACE	600	3	4c
190	4.8 m	2N20	N16-200 EACH FACE	600	3	4d



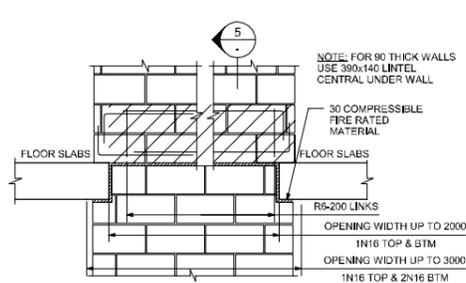
**SECTION 4a**  
SCALE = 1:20

**SECTION 4b**  
SCALE = 1:20



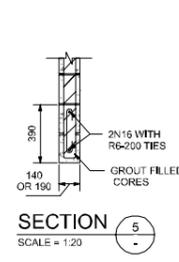
**SECTION 4c**  
SCALE = 1:20

**SECTION 4d**  
SCALE = 1:20

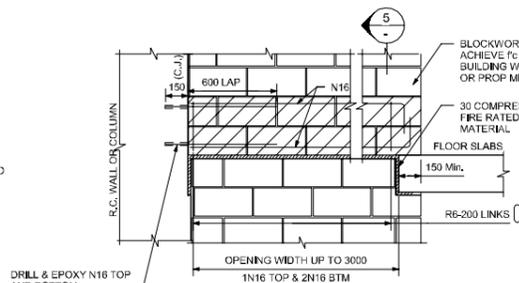


**RISER LINTEL DETAIL**

SCALE 1:20  
HATCHING DENOTES GROUT FILLED CORES

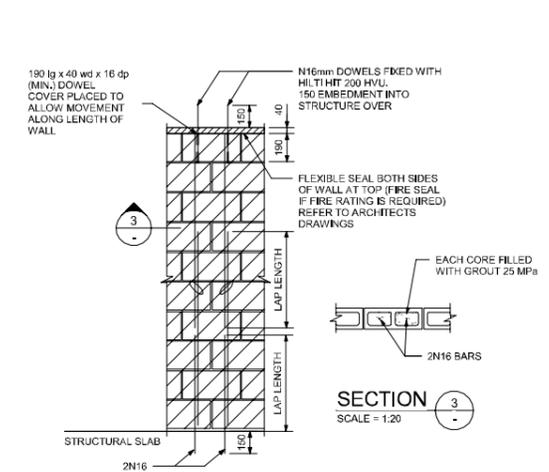


**SECTION 5**  
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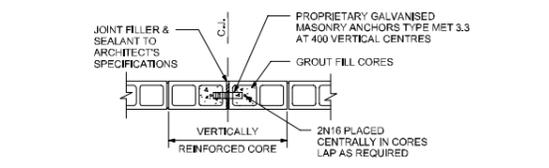
**RISER LINTEL DETAIL TO WALL OR COLUMN**

SCALE 1:20  
HATCHING DENOTES GROUT FILLED CORES



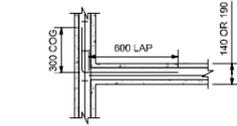
**TYPICAL WALL STIFFENER - DETAIL**

HATCHING DENOTES GROUT FILLED CORES  
REFER ST-001-01 MASONRY NOTE 16



**NOTE:**  
FOR WALLS WHICH ARE NOT FULL HEIGHT, THE CORE FILLED & REINFORCED CORE BLOCKS ARE TO EXTEND TO UNDERSIDE OF SLAB.  
THIS IS TO BE CONSIDERED A STIFFENER AS PER THE REQUIREMENTS OF THE MASONRY WALL SCHEDULE  
MAXIMUM HEIGHT OF WALLS NOT TO EXCEED 4500mm  
PROVIDE WALL STIFFENERS AT MAXIMUM CENTRES OF 3000mm TYPICALLY U.N.O.

**OPTION 1- CONTRACTION JOINT (C.J.) IN BLOCK WALL**



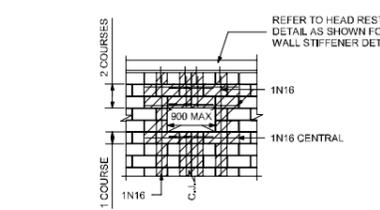
**PLAN AT LINTEL INTERSECTION**

**REINFORCED MASONRY LAP SCHEDULE**

20mm COVER TO REINFORCEMENT - 20MPa GROUT

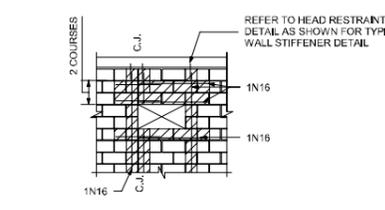
SIZE	Lsyt	1.3 Lsyt
N12	650	850
N16	950	1250
N20	1250	1700

USE 1.3 Lsyt FOR ALL HORIZONTAL REINFORCEMENT WHEN MORE THAN 300mm OF CONCRETE IS CAST BELOW THE BAR



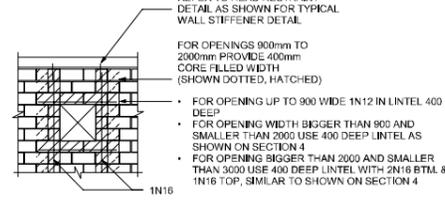
**TYPICAL BLOCKWORK PENETRATION AT CONTRACTION JOINTS (C.J.)**

SCALE = 1:50



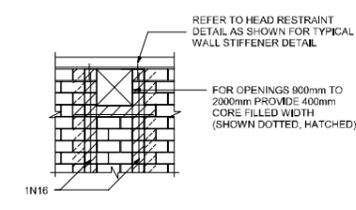
**TYPICAL BLOCKWORK PENETRATION ADJACENT TO CONTRACTION JOINTS (C.J.)**

SCALE = 1:50



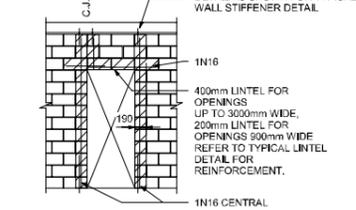
**TYPICAL BOND BEAM ARRANGEMENT AT PENETRATION**

SCALE = 1:50



**TYPICAL ALTERNATE BOND BEAM ARRANGEMENT AT PENETRATION**

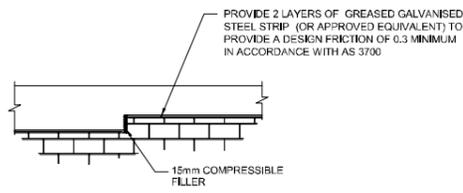
SCALE = 1:50



**WALL STIFFENER WITH C.J. AT DOOR OPENING**

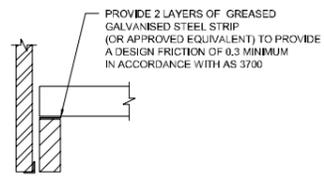
SCALE 1:50

**NOTES**  
HATCHING DENOTES GROUT FILLED CORES  
FOR PENETRATIONS LESS THAN 600 x 600 ONLY BOND BEAM OVER PENETRATION REQUIRED, NO OTHER STIFFENING TO BE PROVIDED (EXCEPT DETAILS WHERE C.J. IS LOCATED)  
VERTICAL STIFFENER IS NOT REQUIRED AT THE EDGE OF OPENING WITHIN 2.5m FOR 140 BLOCK (OR 4.0m FOR 190 BLOCK) OF A WALL STIFFENER, RETURN WALL CONCRETE COLUMN OR ELEMENT THAT PROVIDES LATERAL RESTRAINT.



**TYPICAL BRICK ISOLATION AT SLAB STEP**

SCALE 1:20

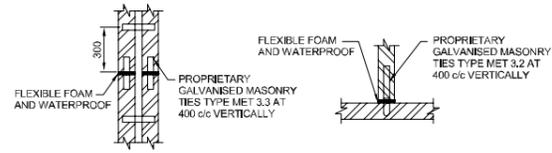


**TYPICAL BRICKWORK LINTEL DETAIL**

SCALE 1:20

- LINTELS SHALL BE GALVANISED TO CLASS Z600
- MAINTAIN 6mm CLEARANCE FROM HEADS AND FRAMES
- AT LOCATIONS WHERE LINTELS CROSS ARTICULATION JOINTS, END OF LINTEL MUST BE WRAPPED IN 2 LAYERS OF GREASED GALVANISED STEEL STRIP (OR APPROVED EQUIVALENT)
- PROP LINTELS AT MD SPAN FOR OPENING 1800mm WIDE AND OVER UNTIL MORTAR SETS

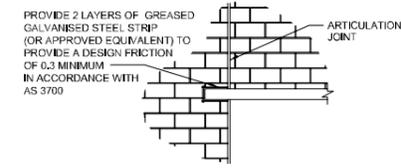
LINTEL SCHEDULE		
MAX. SPAN (mm)	LINTEL DIMENSIONS (mm)	MIN. BEARING LENGTH (mm)
450	75 x 8 PLATE	100
600	75 x 10 PLATE	100
1200	75 x 75 x 8 EA	150
1500	90 x 90 x 8 EA	150
1650	125 x 75 x 8 UA	150
1900	125 x 75 x 10 UA	150
2100	125 x 75 x 10 UA	230
2400	125 x 75 x 10 UA	230
3000	150 x 90 x 12 UA	230



**TYPICAL BRICK JOINT DETAILS**

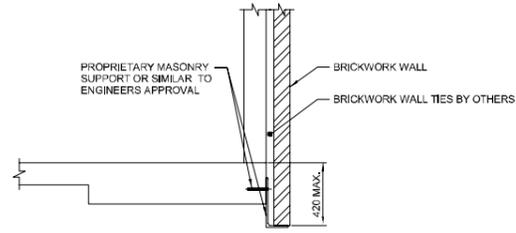
SCALE 1:20

- JOINTS TO BE LOCATED AT 7 METRE CENTRES MAXIMUM TYPICAL
- ALL MASONRY TO BE ARTICULATED
- REFER TO ARCHITECTURAL DRAWINGS FOR JOINT LOCATIONS



**TYPICAL LINTEL AT ARTICULATION JOINT DETAIL**

SCALE 1:20



**TYPICAL BRICKWORK SUPPORT DETAIL**

SCALE = 1:20

- NOTE:**
- BRICKWORK SUPPORT TO BE PROVIDED AT EACH SUSPENDED LEVEL
  - ALL STUDS SUPPORTING MASONRY VENEER TO CONTRACTOR'S DESIGN AND DETAIL.

NO	DATE	BY	REVISION

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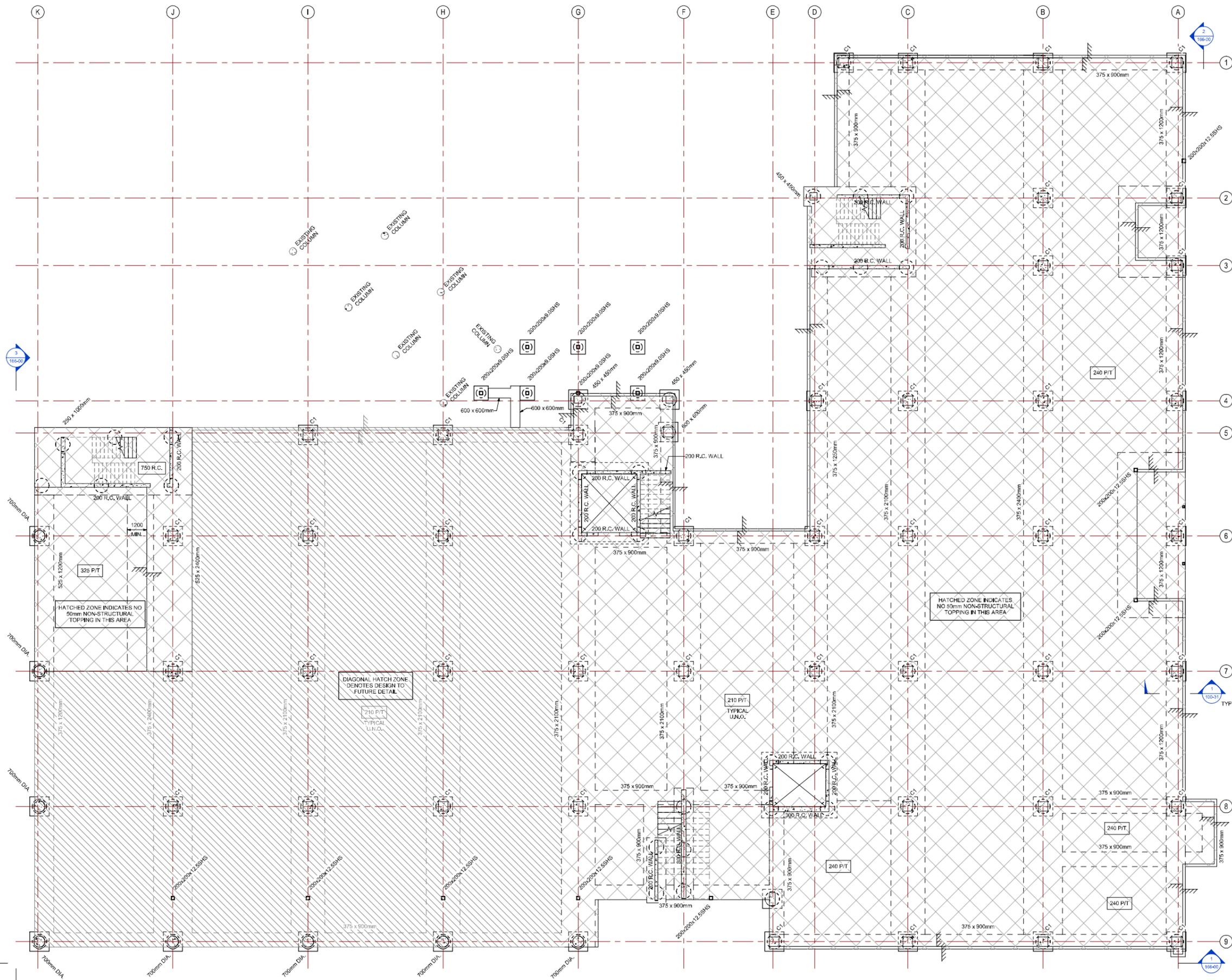
PROJECT  
**BOWRAL & DISTRICT HOSPITAL REDEVELOPMENT**  
 97-103 BOWRAL ST,  
 BOWRAL NSW 2576

DRAWING NUMBER  
 ENS-ST-DWG-011-31  
 DRAWING NAME  
 TYPICAL BRICKWORK DETAILS

REV  
 1



ISSUE DATE  
 19.12.17



- NOTES:**
- UNLESS NOTED OTHERWISE ON PLAN, SLAB AND BEAM SIZES SHOWN INCLUDE 50mm NON-STRUCTURAL TOPPING ZONE WHICH MUST BE A REINFORCEMENT AND POST-TENSIONING FREE ZONE.
  - 50mm NON-STRUCTURAL TOPPING TO BE POURED INTEGRAL WITH STRUCTURAL ELEMENTS.
  - REFER TO ARCHITECTS DRAWINGS FOR SETDOWNS IN NON-STRUCTURAL ZONE, PLINTH AND HOB SETOUT, SIZES AND LOCATIONS. ALL HOB AND PLINTHS TO BE POURED INTEGRAL WITH PRIMARY STRUCTURAL SLAB.
  - FLOOR PLATE TO SPECIALIST PT CONTRACTORS DESIGN AND DETAIL, BUILDING DESIGNED AS AN ORDINARY MOMENT RESISTING FRAME.
  - THE PT CONTRACTOR MUST TAKE ACCOUNT OF THE PRESENCE OF THE 50mm NON-STRUCTURAL ZONE AND THE ADDITIONAL COVER TO REINFORCEMENT AND ENSURE THAT CODE MINIMUM STRENGTH, CRACK CONTROL AND SERVICEABILITY REQUIREMENTS ARE SATISFIED FOR THE COMBINED SECTION WHEN THE TOPPING IS INSTALLED AND FOR THE MINIMUM SECTION IF THE SCREED IS REMOVED IN THE FUTURE.
  - PT CONTRACTOR TO ADVISE ON ALL TEMPORARY PROPPING REQUIREMENTS.
  - SLAB, BEAM AND DROP PANEL DEPTHS NOMINATED ARE THE MINIMUM DEPTHS REQUIRED TO SATISFY FOOTFALL VIBRATION REQUIREMENTS, REDUCTION OF THESE DEPTHS IS NOT PERMITTED.
  - SOFT ZONES MUST BE PROVIDED ADJACENT ALL INTERNAL COLUMNS TO PROVIDE FOR FUTURE FLEXIBILITY. THESE ZONES MUST BE FREE OF REINFORCEMENT AND POST TENSIONING. REFER TO TYPICAL DETAILS.
  - REFER TO ARCHITECTS DRAWINGS FOR SETDOWNS, PLINTH AND HOB SETOUT, SIZES AND LOCATIONS. ALL HOB AND PLINTHS TO BE POURED INTEGRAL WITH PRIMARY STRUCTURAL SLAB. HOB & PLINTHS ARE NOT SHOWN ON STRUCTURAL DRAWINGS FOR CLARITY.
  - THE USE OF LIVE LOAD REDUCTION IS NOT PERMITTED.
  - ALL SUSPENDED STRUCTURES TO BE DESIGNED IN ACCORDANCE WITH THE HI STRUCTURAL DESIGN GUIDANCE NOTE NO.1 DATED 22/10/12.
  - PROVIDE A MINIMUM RESIDUAL PRE-STRESS OF 2 MPa TO ALL EXTERNAL SLAB AREAS. THE CONTRACTOR SHALL LIMIT CONSTRUCTION JOINTS IN THESE AREAS. ALL CONSTRUCTION JOINTS TO BE PROVIDED WITH WATERSTOPS IN ACCORDANCE WITH THE RECOMMENDATIONS OF HIS WATERPROOFING SPECIALIST.
  - GROUND FLOOR SLAB TO BE CAST ON 100mm THICK COLLAPSIBLE VOID FORMER (E.G. PARCHEM ECCOVOID OR APPROVED EQUIVALENT) TYPICALLY U.N.O. (THICKNESS OF COLLAPSIBLE VOID FORMER TO BE CONFIRMED BY GEOTECHNICAL ENGINEER).
  - BALCONIES LAID TO FALLS TO ARCHITECTURAL DETAIL, FALLS N.S.O.P TYPICAL.
  - PROVIDE A GALVANISED STEEL SHELF ANGLE OR AN APPROVED PROPRIETARY SHELF ANGLE TO ALL SLAB EDGES SUPPORTING EXTERNAL BRICKWORK WALLS, EXTERNAL BRICKWORK SKINS TO BE SUPPORTED AT EACH LEVEL.
  - CONTRACTOR TO ALLOW FOR SECONDARY STEELWORK TO PROVIDE SUPPORT TO ALL ARCH FACED AREAS TYPICALLY.
  - CONTRACTOR TO ALLOW FOR NON-LOAD BEARING PRECAST ELEMENTS TO BE DESIGNED BY OTHERS, NON-LOAD BEARING PRECAST ELEMENTS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

**C1 - R.C. COLUMNS**

GROUND	600 x 600mm
LEVEL 1	500 x 500mm
LEVEL 2	500 x 500mm
LEVEL 3	450 x 450mm

**GROUND FLOOR GENERAL ARRANGEMENT PLAN**  
SCALE: 1 : 100

**AMENDMENTS**

NO.	DATE	SUBJECT	BY
1	10/11/17	ISSUE FOR PERMIT	EN
2	12/11/17	PRELIMINARY SCHEMATIC DESIGN	EN
3	15/11/17	SCHEMATIC DESIGN	EN
4	17/11/17	SCHEMATIC DESIGN	EN

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TSA MANAGEMENT

**PROJECT**  
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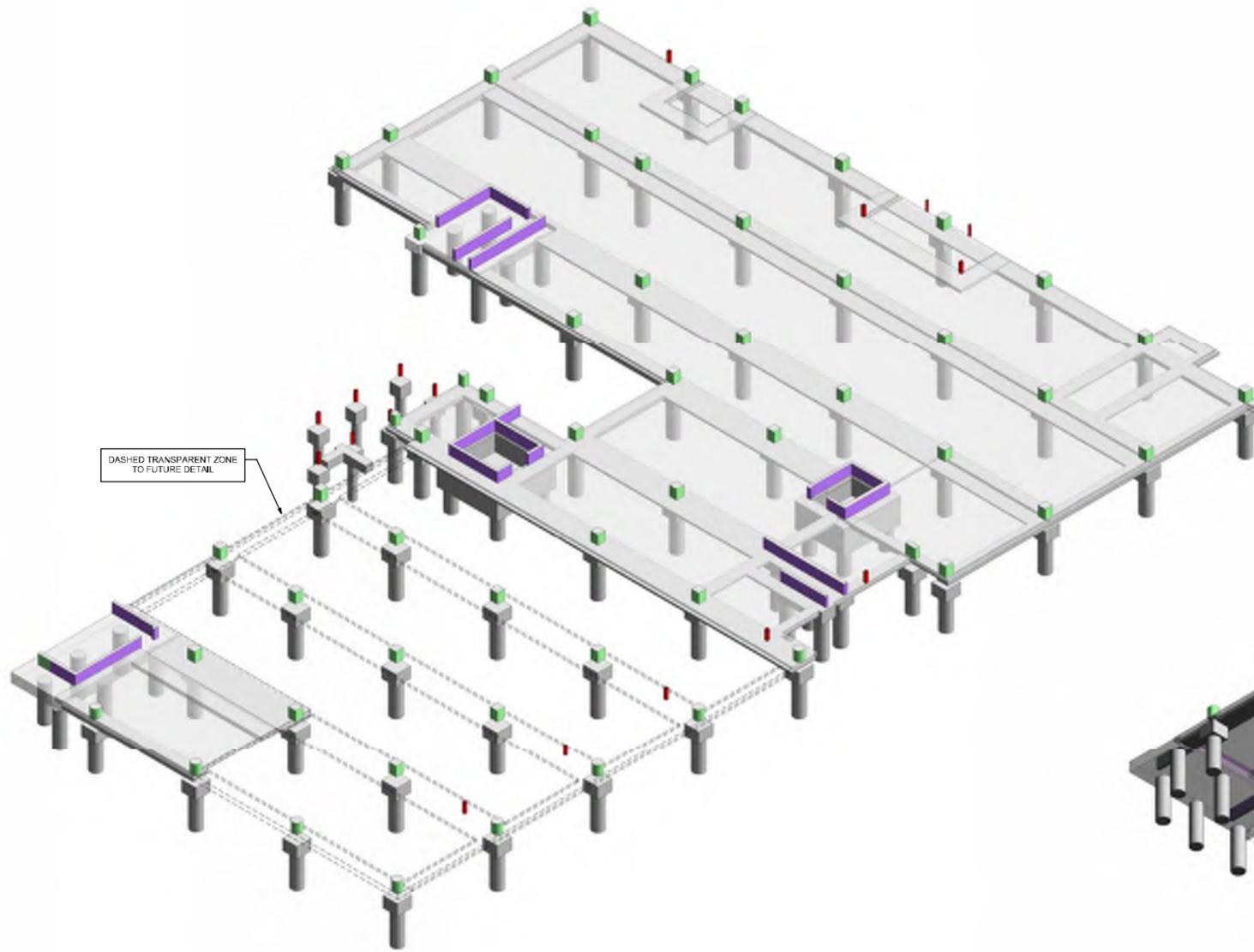
**DRAWING NUMBER**  
ENS-ST-DWG-100-00

**DRAWING NAME**  
GROUND FLOOR GENERAL ARRANGEMENT

**REV**  
4

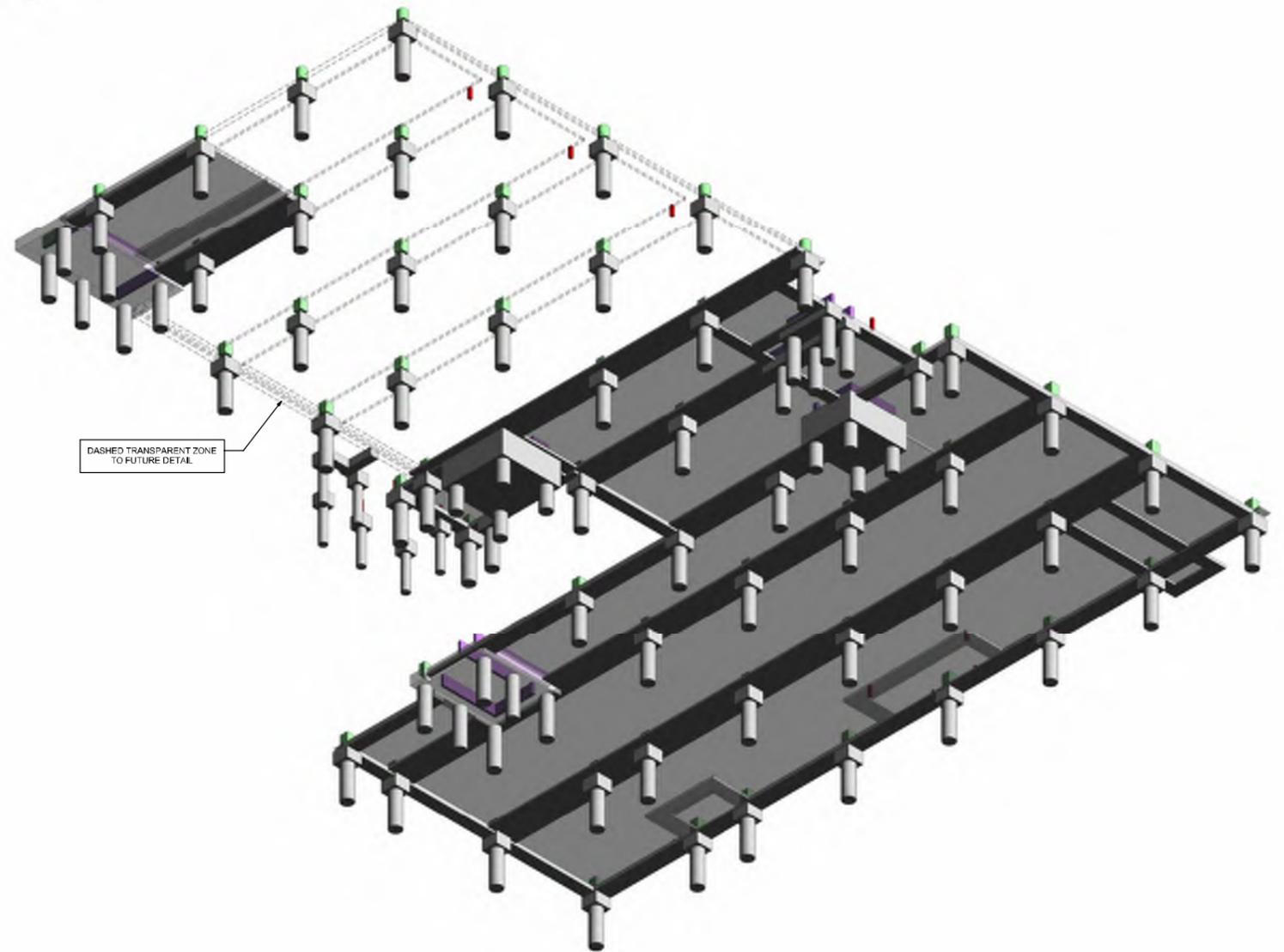
**SCALE**  
1:100 @ B1

**ISSUE DATE**  
19.12.17



GROUND FLOOR 3D VIEW OVER

SCALE:



GROUND FLOOR 3D VIEW UNDER

SCALE:

AMENDMENTS	NO.	DATE	DESCRIPTION
1	01/12/17	ISSUE FOR TENDER	
2	08/12/17	ISSUE FOR TENDER	
3	12/12/17	ISSUE FOR TENDER	

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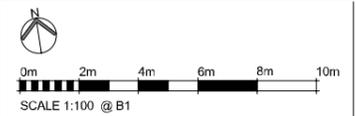
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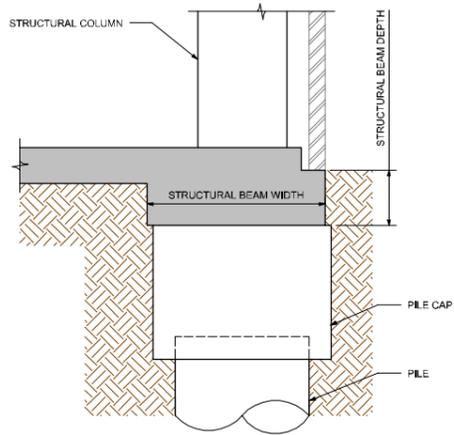
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**BOWRAL & DISTRICT HOSPITAL REDEVELOPMENT**  
 97-103 BOWRAL ST,  
 BOWRAL NSW 2576

DRAWING NUMBER  
 ENS-ST-DWG-100-07  
 DRAWING NAME  
 GROUND FLOOR 3D VIEWS

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 3



ISSUE DATE  
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TYPICAL SECTION THROUGH PERIMETER OF GROUND FLOOR SLAB

SECTION 1  
1:20

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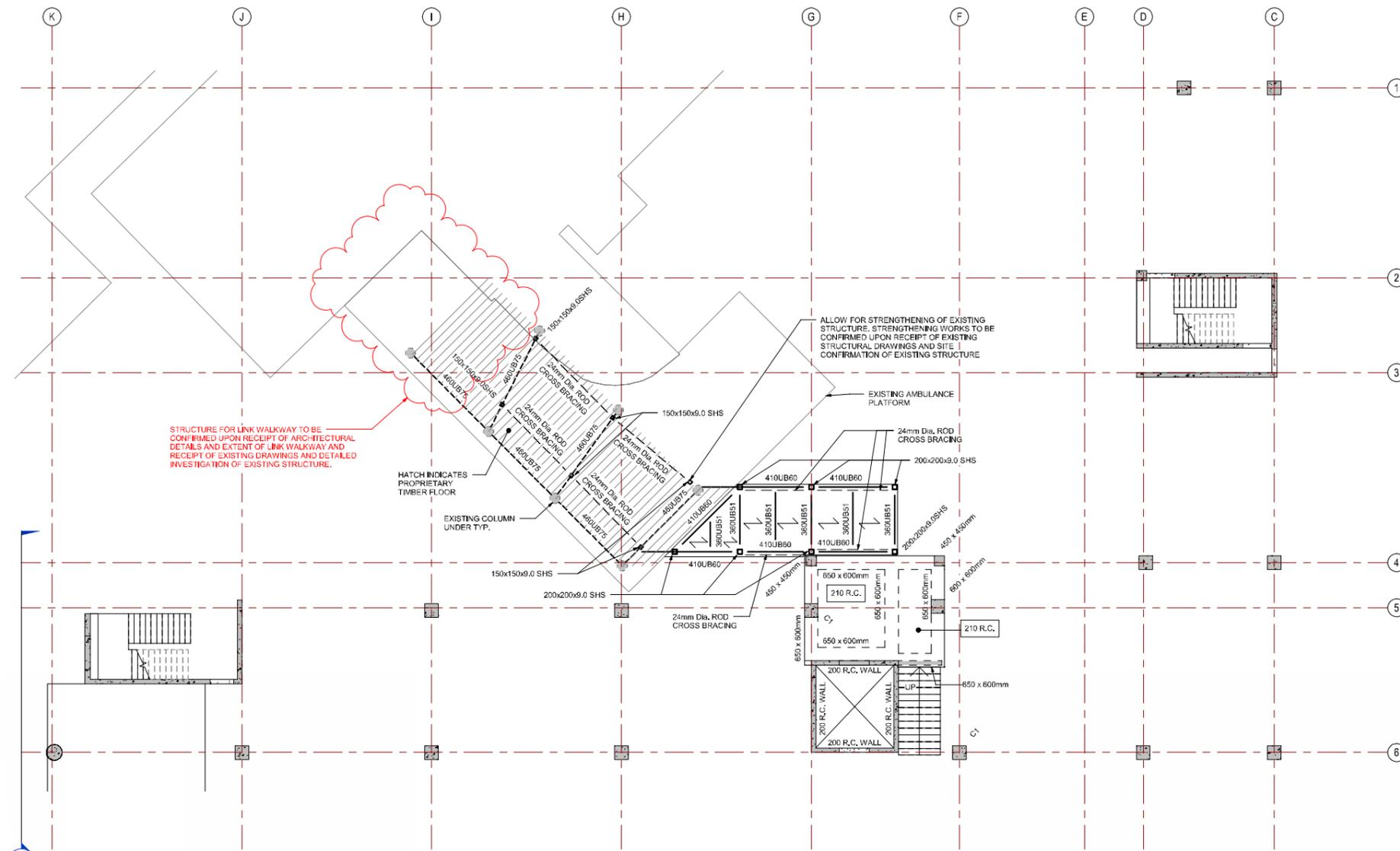
PROJECT  
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 97-103 BOWRAL ST,  
 BOWRAL NSW 2576

DRAWING NUMBER  
 ENS-ST-DWG-100-31  
 DRAWING NAME  
 GROUND FLOOR SECTIONS AND DETAILS

REV  
 1

SCALE 1:100 @ B1

ISSUE DATE  
 19.12.17



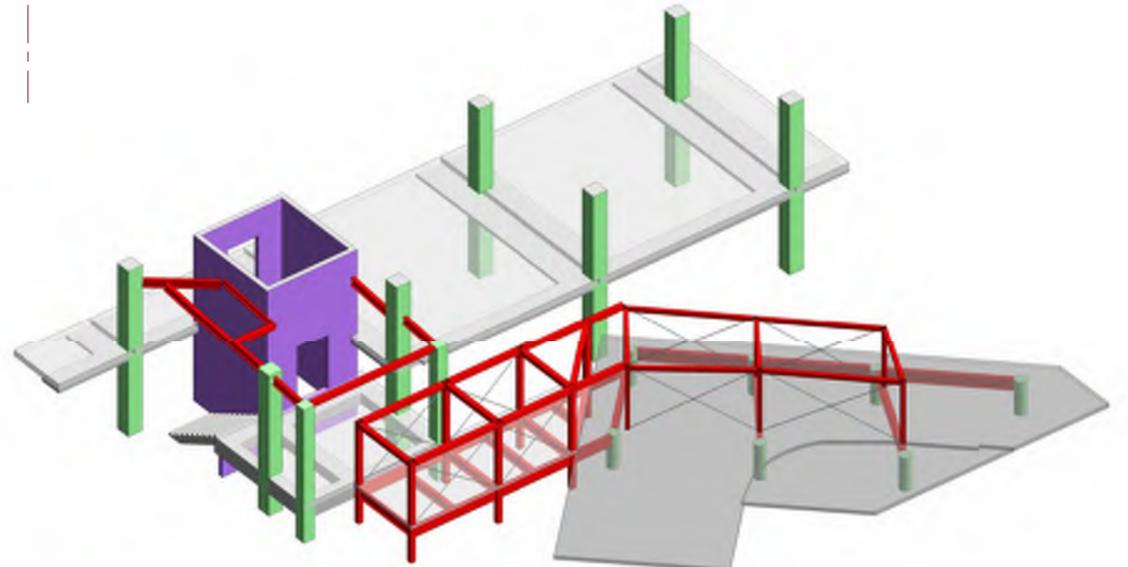
**GROUND FLOOR MEZZANINE GENERAL ARRANGEMENT**  
SCALE: 1:100

**NOTES:**  
 → DENOTES 150mm THICK COMPOSITE SLAB WITH 1.0mm BMT BONDEK + 50mm THICK LAYER OF NON-STRUCTURAL SCREED.  
 ALLOW FOR REINFORCEMENT RATE OF 120 kg/m<sup>2</sup>  
 • 19 DIA. SHEAR STUDS TO ALL BEAMS AT 200 c/c  
 • ALL STEELWORK TO BE FIRE RATED BY APPROVED SPRAY OR BOARD TO ARCHITECT'S DETAIL

**NOTES:**

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**C1 - R.C. COLUMNS**  
 GROUND - 600 x 600mm  
 LEVEL 1 - 500 x 500mm  
 LEVEL 2 - 500 x 500mm  
 LEVEL 3 - 450 x 450mm



**GROUND FLOOR MEZZANINE 3D VIEW**  
SCALE:

AMENDMENTS	DATE	BY	REASON
1	19/12/17	ENSTRUCT	ISSUE FOR TENDER
2	19/12/17	ENSTRUCT	ISSUE FOR TENDER

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**DRAWING NUMBER**  
 ENS-ST-DWG-100-50  
**DRAWING NAME**  
 GROUND FLOOR MEZZANINE PART PLAN

**REV**  
 2

**SCALE**  
 1:100 @ B1

**ISSUE DATE**  
 19.12.17