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							SITE CLA	SSIFICATION	

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### GENERAL

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G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE COURSE OF THE CONTRACT

G2. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. THE ENGINEERS DRAWINGS SHALL NOT BE SCALED ALL DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK.

G3. ALL DIMENSIONS ARE IN MILLIMETRES UNO.

DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART BECOMES OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.

WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS AND STATUTORY REQUIREMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

DESIGN LIVE LOADINGS ARE IN ACCORDANCE WITH AS 1170.1-2002 AS FOLLOWS:

AREA	LOAD
FLOORS:	1.5 kPa
ROOF:	0.25 kPa

67 DESIGN WIND LOADINGS ARE IN ACCORDANCE WITH AS 1170.2 AS FOLLOWS: WIND REGION N2

ALL ITEMS CALLED UP BY A TRADE NAME MAY BE SUBSTITUTED BY AN EQUIVALENT ITEM WITH SIMILAR PROPERTIES, SUBJECT TO THE ENGINEER'S WRITTEN APPROVAL

ALL CLADDING MATERIALS AND ELEMENTS SHALL BE FIXED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS FOR THE ABOVE LOADING CONDITIONS AND THE SUPPORTING STRUCTURE SHOWN ON THESE DRAWINGS.

G10. ALL GLAZING MATERIALS, FIXING DETAILS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH AS 1288 S.A.A. GLASS INSTALLATION CODE.

G11. THE STRUCUTRAL DRAWINGS DO NOT SHOW ALL DETAILS OF FIXTURES, INSERTS, OPENINGS ETC. ALL THESE DETAILS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

ANY DISCREPENCY BETWEEN THE DRAWINGS AND/OR ON THE DRAWINGS SHALL BE REFERRED TO ENGINEER AND A WRITTEN INSTRUCTION RECEIVED BEFORE COMMENCEMENT OF WORK.

## CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600.
- ALL FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 3610. C2.
- MINIMUM COVER TO REINFORCEMENT TO BE AS FOLLOWS U.N.O. ON THE DRAWINGS: C3.

ELEMENT	TOP OR FORMED & NOT EXPOSED TO WEATHER (INTERNAL)	TOP OR FORMED & EXPOSED TO GROUND OR WEATHER (EXTERNAL)	NOT FORMED, CAST AGAINST GROUND, etc.
FOOTINGS	50	50	50

C4. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.

C5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN THE TRUE PROJECTION.

SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN OR AS OTHERWISE APPROVED BY THE ENGINEER. FABRIC 6 IS TO BE LAPPED BY A MINIMUM OF 2 CROSS WIRES + 25MM AND SHEETS STAGGERED TO AVOID EXCESSIVE THICKNESS AT LAPS.

## MINIMUM FABRIC LAP

C7. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION SO AS NOT TO BE DISPLACED DURING CONCRETING, ON APPROVED BAR CHAIRS AT 1000MM MAXIMUM CENTRES BOTH WAYS. WHERE REQUIRED, PROVIDE SUPPORT BARS AT 1000MM MAXIMUM CENTRES.

BARS, HD. BOLTS AND THE LIK PROTRUDING FROM CONCRETE WORK SHALL BE HOOK OR CAPPED AT HE END TO MINIMISE THE OF INJURY. (8)

C9. REINFORCEMENT SHALL COMPLY WITH AS 4671 AND IS DESIGNATED WITH THE FOLLOWING SYMBOLS: RL, SL RECTANGULAR OR SQUARE FABRIC, DEFORMED WIRE, CLASS L, GRADE 500 N HOT ROLLED DEFORMED BAR, GRADE N500 R PLAIN ROUND BAR, GRADE 230 W DEFORMED WIRE REINFORCING, GRADE 500.

C10. CONCRETE COMPONENTS AND QUALITY SHALL BE AS FOLLOWS:

38	ELEMENT	STRENGTH GRADE	MAXIMUM AGGREGATE SIZE	SLUMP
	FOOTINGS	N25 UNO	20MM	80MM

C11. IF CONCRETE IS PLACED IN HOT AND/OR WINDY WEATHER (>28°C) AN ALIPHATIC FOG SPRAY IS RECOMMENDED TO REDUCE EVAPORATION.

C12. ALL CONCRETE SHALL BE PROPERLY COMPACTED IN PLACE, THEN EXPOSED SURFACES CONTINUOUSLY CURED FOR A MINIMUM OF 7 DAYS BY AN APPROVED METHOD OF CURING

C13. BAR LAPS SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

BAR TYPE / SIZE	VERTICAL BARS	HORIZONTAL BARS
N12	300	400
N16	400	500
N20	600	750
N24	850	1050

C14. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE SUPERINTENDENT

PIPES, CONDUITS AND OTHER CAST-IN ELEMENTS SHALL BE POSITIONED TO ALLOW WET CONCRETE TO FLOW AROUND ALL REINFORCEMENT. DO NOT TIE CONDUIT ALONGSIDE REINFORCEMENT

C16. WELDING OR SITE BENDING OF REINFORCEMNT IS NOT PERMITTED WITHOUT APPROVAL FROM THE SUPERINTENDENT.

C17 CURE CONCRETE FOR 7 DAY BY WATERING OR USE CHEMICAL CURING AGEN IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

# EXAMPLES OF MASONRY ARTICULATION JOINTS

### STRUCTURAL STEEL

Version: 1, Version Date: 01/06/2018

S1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS 4100, AS/NZS 4600, AS/NZS 1554 AND AS/NZS HB62 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS

ALL MATERIALS, WORKMANSHIP, FABRICATION AND ERECTION SHALLBE IN ACCORDANCE 52 WITH AS1163

S3. STEEL HOLLOW SECTIONS FOR GENERAL STRUCTURAL PURPOSES SHALL BE IN ACCORDANCE WITH AS3679.1 & AS3679.2.

STRUCTURAL STEEL AND WELDED SECTIONS SHALL BE IN ACCORDANCE WITH AS4100. WELDING OF STEEL SHALL BE IN ACCORDANCE WITH AS1554 UNLESS SHOWN OTHERWISE, ALL STELL SHALL BE IN ACORDANCE WITH AS3679 GRADE 56

300 ALL STEEL HOLLOW SECTIONS SHALL BE GRADE 350 IN ACCORDANCE WITH AS1163.

S7. S8. ALL PRESSED METAL PURLINS AND GIRTS SHALL BE GRADE 450 IN ACCORDANCE WITH AS1538

#### CONNECTIONS (BOLTS & WELDS)

UNLESS SHOWN OTHEREWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE IN ACCRODANCE WITH THE FOLLOWING MINIMUM REQUIREMENTS:

×ALL WELDS SHALL BE 6MM CONTINUOUS FILLET WELD ALL ROUND. \*ALL BOLTS SHALL BE M20-8.8/S.

× ALL PURLINS BOLTS SHALL BE M12-8.8/S, MINIMUM 2 BOLTS FOR EACH PURLIN.

**\*ALL BASE PLATES SHALL BE 20MM THICK.** 

×ALL CAP PLATES SHALL BE 12MM THICK. **\*ALL CLEAT AND GUSET PLATES SHALL BE 10MM THICK.** 

4.6/S BOLT MEANS: STRENGTH GRADE 4.6 TO AS1111 FOR SNUG TIGHT CONDITION. 8.8/S BOLT MEANS: STRENGTH GRADE 8.8 TO AS1252 FOR SNUG TIGHT CONDITION. 8.8/TB BOLT MEANS: HIGH STRENGTH GRADE 8.8 TO AS1252 FOR FULLY TENSIONED IN ACCRODANCE WITH AS4100 AAS A BEARING JOINT. 8.8/TF BOLT MEANS: HIGH STRENGTH GRADE 8.8 TO AS1252 FOR FULLY TENSIONED IN ACCRODANCE WITH AS4100 AAS A FRICTION JOINT

ALL WELDS SHALL BE SPECIAL PURPOSE (SP) IN ACCORDANCE WITH AAS1554 ALL BUTT WELDS SHAL BE FULL STRENGTH COMPLETE PENETRATION WELDS.

ALL FLECTRODES SHALL BE CLASS F48 UNLESS SPECIFIED OTHERWISE, ALL BOLTS, WASHERS AND NUTS SHALL BE HOT DIP **GALVANISED** 

ALLTF & TB BOLTS SHALL BE TENSIONED BY THE PART TURN METHODS IN ACCORDANCE AAS4100.

FOR STEEL TO STEEL CONNECTIONS, BOLT HOLES SHALL BE BOLT SIZE + 2MM U.N.O. FOR STEEL TO CONCRETE CONNECTIONS, BOLT HOLES SHALL BE BOLT SIZE + 4MM UP 24MM BOLTS AND BOLT SIZE + 6MM FOR BOLTS GREATER THAN M24 AND BOLTS SHAL MIN 4MM THICK WASHER U.N.O.

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STE CLASSIFICATION THE SITE WAS CLASSIFIED AS "P" BY GEOENVIRO CO JG17081A-R1 JAN18.	DNSULTANCY PTY LTD AS PER THEIR REPORT
IN ACCORDANCE WITH AS2870-2011, THE SITE CLASS	IFICATION IS "P".
THE OWNER SHAL MAINTAIN THE FOUNDATION IN ACC AS2870. FOOTINGS	ORDANCE WITH THE REQUIREMENTS OF APPENDIX "B" OF
F1. STRIP TOP SOIL TO THE RELATIVE LEVELS SHO EXPOSED AREA SHALL THEN BE PROOF ROLLED WITH TONNE AXLE LOAD TO ENSURE THAT NO LOCAL SOFT	DWN ON THE ARCHITECTURAL DRAWINGS. THE A SINGLE AXLE TRUCK WITH NOT LESS THAN 8 SPOTS EXIST.
F2. THE CONTRACTOR SHALL CHECK ALL FOOTING RUBBISH. IF ANY OF THIS MATERIAL IS FOUND, IT SHA BACKFILLED WITH CLEAN GRANULAR FILL.	EXCAVATIONS FOR ORGANIC MATERIAL AND ALL BE REMOVED AND THE EXCAVATION
F3. IF DISTURBED, THE BOTTOM OF THE EXCAVATI DENSITY OF 100% AS DETERMINED ACCORDING TO AS	ONS SHALL BE COMPACTED TO A RELATIVE DRY 1289-E4.1 AND E1.1.
F4. THE CONTRACTOR IS TO ENSURE THAT THE SID PHASES OF CONSTRUCTION.	DES OF THE EXCAVATION ARE STABLE DURING ALL
F5. THE FOOTINGS HAVE BEEN DESIGNED TO FOUNI ALLOWABLE BEARING CAPACITY OF 100 kPa. SHOULD ABOVE BE ENCOUNTERED, THEN THE MATTER SHALL RE-DESIGN.	D IN A STABLE MATERIAL WITH A SAFE CONDITIONS OTHER THAN THOSE DESCRIBED BE REFERRED TO THE ENGINEER FOR POSSIBLE
F6. FILL UNDER THE SLAB SHALL BE FREE FROM O BOULDERS.	RGANIC MATERIAL, REACTIVE CLAYS, LARGE
F7. FILL/S SHALL BE NON-REACTIVE CRUSHED ROU MAXIMUM DRY DENSITY IN AYERS OF 200MM DEPTH.	CK OR EQUIVALENT COMPACTED TO A MINIMUM 98%
F8. NO PART OF PIERS, GROUND BEAMS AND FOOT × LOOSE MATERIAL WITH ALLOWABLE BEARING ( × SOILS SUBJECT TO EROSION. × REACTIVE SITE AND SITES WHICH HAVE BEEN [	INGS SHALL BE FOUNDED ON: CAPACITY OF < 100kPa. DUG AND/OR HAVING UNCONTROLLED FILL.
F9. ENSURE TERMITE MANAGEMENT IS PROVIDED IN	N ACCORDANCE WITH AS3660.1
<ul> <li>ALL MASONRY WORK SHALL BE COMPLETED IN J</li> <li>MINIMUM UNCONFINED COMPREESIVE STRENGTH I</li> <li>MORTAR FOR MASONRY WORK SHALL BE TYPE</li> <li>GALVANISED WALL TIES SHALL BE PROVIDED B</li> <li>FOR NO CAVITY IN THE WALLS, 3:15MM DIAMETE</li> <li>AREA MILD STEEL TIES SHALL BE PLACED AT 300MM (IMAX) CRS VERTICALLY.</li> <li>FOR CAVITY UPTO SOMM WIDTH, GALVANISED T</li> <li>300MM (MAX) CRS HORIZONTALLY AND 600MM (MAX) C</li> <li>MAXI ORS HORIZONTALLY AND 600MM (MAX) C</li> <li>WERTICALLY OR TWO TIES EVERY 600MM.</li> <li>EXPENSION JOINTS IN THE MASONRY WALLS SH</li> <li>ALL LOCATIONS AS PER AS3700 REQUIREMENTS.</li> </ul>	ACCORDANCE WITH AS3700. OF BRICKS SHALL BE 20MPa. M3 TO AS3700. ETWEEN SKINS OF BRICKWORK. R GALVANISED OR EQUIVALENT MACI (CRS HORIZONTALLY AND IES SHALL BE PLACED AT RS VERTICALLY. PLACED 300MM (MAX) CRS ALL BE AT 8M (MAX) AND AT
But in the standard	
() Marrative gior deal (a) Marrative gior deal (b) Marrative gior deal (c) Single and macory	*CONTRACTOR MUST ENSURE THAT ALL STRUCTURAL ELEMENTS (BEAMS/POSTS/WALL/TRUSSES/ROOF ETC) REMAIN IN STABLE CONDITION DURING CONSTRUCTION PHASE OF THE PROJECT.
EXAMPLES OF MASONRY ARTICULATION JOINTS	*ALL SLABS SHALL HAVE 50MM THICK SAND BEDDING + 0.2 THICK HIGH IMPACT POLYTHENE MEMBRANE UNDERNEATH.
	*FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE SUPERVISED BY A QUALIFIED SUPERVISOR TO ENSURE THAT ALL REQUIREMENTS OF THE DESIGN ARE MET.
RPOSE (SP) IN ACCORDANCE WITH AAS1554. TRENGTH COMPLETE PENETRATION WELDS.	*ALL STEEL WORK BELOW GROUND OR BELOW FINISH SURFACE LEVEL SHALL BE ENCASED BY 75MM (MIN) CONCRETE ALL ROUND.
E48. L BOLTS, WASHERS AND NUTS SHALL BE HOT DIP	
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