G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.

G2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.

G3. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE CONTRACTOR ON SITE. ENGINEERS' DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS. G4. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.

G5. THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND LOCAL GOVERNMENT ORDINANCES FOR THE FOLLOWING LOADINGS:

FLOOR USAGE

120011001102	LIVE LOTTE III G	
GENERAL	5	
WIND LOADS ARE IN ACCORDANCE WITH AS 1170 AS FOLLOWS		
BASIC WIND VELOCITY (Vu)	48 m/s	
REGION	А	
TERRAIN CATEGORY	3 (Cross wind)	

LIVE LOAD kPa

2.5 (Along Wind)

G6. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERLOADED. TEMPORARY BRACING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR IN ORDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES

SP1. THE UTILITY SERVICES ARE SHOWN INDICATIVELY ON THE DRAWINGS AND POT HOLING TO BE UNDERTAKEN PRIOR TO ANY EXCAVATION WORK.

SP2. ALL FOUNDATIONS ARE TO BE FREE OF ALL STANDING WATER AND LOOSE MATERIAL AT THE TIME OF POURING.

SP3. ALL SOFT SPOTS SHALL BE REMOVED AND BACKFILLED WITH SUITABLE SP4. ALL EXCAVATIONS SHALL BE TEMPORARILY SUPPORTED WHERE MORE

THAN 1m OF EARTH REQUIRED RETENTION. SP5. MINIMUM FACTORED ULTIMATE BEARING CAPACITY OF BEDDING MATERIAL SHALL BE : 150 kPa

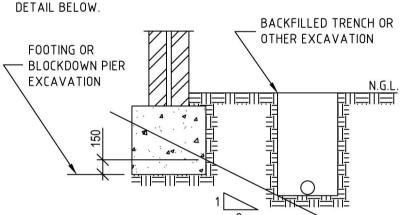
OTHERWISE.

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F1. BACKFILL SHALL BE COMPACTED TO 95% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT +/- 2% U.N.O. (ENSURE FREE DRAINING BACKFILL AND DRAINAGE IS IN PLACE). FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED

F2. DO NOT EXCEED A RISE OF 1 IN A RUN OF 2 FOR THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS. F3. FOOTING LEVELS, WHERE SHOWN ARE ESTIMATES ONLY AND WILL BE

ESTABLISHED DURING SITE INSPECTION OF WORKS IN PROGRESS F4. UNLESS OTHERWISE APPROVED BY THE ENGINEER / SUPERINTENDENT, THE LIMITS OF EXCAVATIONS NEAR FOOTINGS SHALL BE AS SET OUT IN THE



PRIOR TO ANY EXCAVATION NEAR EXISTING FOOTINGS, THE CONTRACTOR SHALL DETERMINE THE DEPTH OF FOUNDING OF EXISTING FOOTINGS BY LOCAL INVESTIGATORY EXCAVATION. GENERAL EXCAVATION SHALL NOT PROCEED BELOW A LEVEL 150mm ABOVE THE UNDERSIDE OF EXISTING FOOTINGS UNTIL INSTRUCTION IS OBTAINED FROM THE ENGINEER ON PROCEDURES AND PRECAUTIONS TO BE TAKEN.

F5. SUBGRADE: UNLESS OTHERWISE SPECIFIED THE SUBGRADE BELOW BASECOURSES FOR SLABS SHALL BE APPROVED MATERIAL COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT +/- 2%.

F6. BASE COURSE: BASE COURSE SHALL BE FINE CRUSHED ROCK (DGB20) OR OTHER MATERIAL APPROVED BY THE ENGINEER SPREAD IN LAYERS NOT EXCEEDING 200mm DEPTH AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT +/- 2%.

F7. TOPSOIL, GRASS ROOT ETC REMOVED FROM AREA ON WHICH THE FOOTING IS TO REST.

P1. PILES DESIGNED IN ACCORDANCE WITH AS 5100.3 P2. FOR COMPLETE GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT PREPARED BY GEOTECHNIQUE, REF #13251/1-AB.

P3. FOUNDATION MATERIAL SHALL BE: 1600 kPa FACTORED SANDSTONE. P4. FOOTING LEVELS ARE ASSUMED AND SHALL BE ADJUSTED FOR THE ACTUAL LEVEL AT WHICH THE REQUIRED PILE CAPACITY IS ACHIEVED.

P5. IF OPEN BORED PILES ARE USED THE PILE BASE MUST BE CLEANED USING A SUITABLE CLEANING TOOL TO REMOVE ALL LOOSE, SOFTENED OR DISTURBED MATERIAL PRIOR TO POURING CONCRETE. PILES SHOULD EITHER BE DEWATERED PRIOR TO POURING CONCRETE OR A TREMIE MIX AND TREMIE POURING METHOD USED.

P6. CONTRACTOR TO PROVIDE PILE RECORDS INCLUDING. SPECIFIED LOAD

LENGTH OF PILE DRIVEN LENGTH LOAD ACHIEVED

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600, AS 1379 AND AS 3610 CURRENT EDITIONS WITH AMENDMENTS, EXCEPT

WHERE VARIED BY THE CONTRACT DOCUMENTS. C2. CONCRETE QUALITY. ALL CEMENT TO BE TYPE SL, SHRINKAGE LIMITED CEMENT IN ACCORDANCE WITH AS 3972, EXCEPT WHERE THAT THE MAXIMUM SHRINKAGE OF THE CEMENT IN THE MORTAR TEST SAMPLE IN ACCORDANCE WITH AS 2350 SHALL BE LESS THE 600 MICROSTRAINS.

C3. NO ADMIXTURES OTHER THAN LOW RANGE WRA SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.

C4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE.

CHEESS SHOWN OTHERWISE.			
EXPOSURE CLASS TO AS 3600	MINIMUM CONCRETE GRADE	CAST AGAINST GROUND	CAST IN FORMS AND EXPOSED
B1 (EXTERNAL)	32	60mm	40mm
B2 (EXTERNAL)	40	65mm	45mm
PIER	50	85	-
PIER CAP	40	85	70

NOTE: WHERE CONCRETE IS POURED ON A VAPOURPROOF MEMBRANE 0.2MM MINIMUM THICKNESS, THE COVER TO CONCRETE CAST AGAINST GROUND MAY BE REDUCED BY 10mm.

C5. CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES. NO FINISH WHICH DECREASES COVER IS ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

C6. CONSTRUCTION JOINTS THAT WERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.

C7. THE FINISHED CONCRETE SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND BEING FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.

C8. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF THREE (3) DAYS, AND THE PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF SEVEN (7) DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS THAT COMPLY WITH AS 3799 MAY BE USED WHERE FINISHES WILL NOT BE AFFECTED (REFER MANUFACTURERS SPECIFICATION). POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.

C9. REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT THE

PERMISSION OF THE ENGINEER. C10. CAST-IN FIXINGS, BOLTS ETC SHALL NOT BE ALTERED WITHOUT THE PERMISSION OF THE ENGINEER.

R1. ALL REINFORCING BARS SHALL BE GRADE D500N TO AS 4671 UNLESS NOTED OTHERWISE. ALL MESH SHALL BE GRADE 500L TO AS 4671 AND SHALL BE SUPPLIED IN FLAT SHEETS. REINFORCEMENT NOTATION SHALL BE AS FOLLOWS, IN THE FOLLOWING ORDER.

- NUMBER OF BARS IN GROUP — BAR GRADE AND TYPE 17N20-250 ------ SPACING IN mm — NOMINAL BAR SIZE IN mm

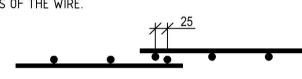
THE FIGURES FOLLOWING THE FABRIC SYMBOLS RL, SL, L, TM IS THE REFERENCE NUMBER FOR FABRIC TO AS 4671.

R2. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT

NECESSARILY IN TRUE PROJECTION. R3. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS 3600 AND NOT LESS THAT THE DEVELOPMENT LENGTH FOR EACH BAR AS SHOWN IN THE TABLE BELOW.

SPLICE SCHEDULE				
BAR DIA.	LENGTH	BAR DIA.	LENGTH	
N10	300	N28	1400	
N12	400	N32	1800	
N16	550	N36	2200	
N20	800	N40	2600	
N24	1100			

R4. SITE WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER. R5. FABRIC SHALL BE LAPPED TWO TRANSVERSE WIRES PLUS 25mm. BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF THE WIRE.



FABRIC LAP DIAGRAM

R6. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NO GREATER THAN 1 METRE CENTRES BOTH WAYS AND 800mm EACH WAY FOR FABRIC. PLASTIC TIPPED STEEL CHAIRS SHALL NOT BE USED ON EXPOSED FACES IN EXPOSURE CLASSIFICATION B1, B2 AND C, USE ONLY PLASTIC OR CONCRETE

R7. SITE BENDING OF REINFORCEMENT SHALL BE AVOIDED IF POSSIBLE. WHERE SITE BENDING IS UNAVOIDABLE IT SHALL BE CARRIED OUT COLD, WITHOUT THE APPLICATION OF HEAT, AND IN ACCORDANCE WITH THE PRACTICE NOTE RPN1 OF THE STEEL REINFORCEMENT INSTITUTE OF AUSTRALIA.

R8. THE FOLLOWING ABBREVIATIONS APPLY TO THE LOCATION OF

REINFORCEMENT. EW – EACH WAY. T – TOP BARS LAID FIRST. EF – EACH FACE. TT – TOP BARS LAID SECOND. NF — NEAR FACE. B — BOTTOM BARS LAID SECOND.

FF – FAR FACE. BB – BOTTOM BARS LAID FIRST.

FORMWORK

FW1. THE DESIGN, CERTIFICATION, CONSTRUCTION, INSPECTION AND PERFORMANCE OF THE FORMWORK AND FALSE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, EXCEPT TO THE EXTENT THAT FORMWORK DESIGN IS SHOWN ON THE STRUCTURAL DRAWINGS.

EDGES AND CORNERS UNLESS SPECIFIED OTHERWISE.

FW2. DESIGN AND CONSTRUCTION AND STRIPPING TIMES SHALL COMPLY WITH AS 3610 AND AS 3600 UNLESS OTHERWISE APPROVED BY THE ENGINEER. FW3. 15mm CHAMFERS AND FILLETS SHALL BE PROVIDED TO ALL EXPOSED

T1. ALL TIMBER DESIGN, MATERIAL AND CONSTRUCTION SHALL BE TO AS 1720.1

AND AS 1720.2. T2. TIMBER TO BE SUPPLIED UNSEASONED U.N.O.

T3. SOFTWOOD TO BE MINIMUM STRESS GRADE F7 U.N.O. HARDWOOD TO BE MINIMUM STRESS GRADE F14 U.N.O

T4. EXTERNAL TIMBER TO BE HARDWOOD, NATURAL MINIMUM DURABILITY, CLASS 2 TO AS 1720.2 FOR ABOVE GROUND LOCATIONS AND CLASS 1 TO AS 1720.2 FOR IN GROUND LOCATIONS.

T5. ALL TIMBER IS TO BE CERTIFIED BY AN APPROVED AUTHORITY.

STRESS GRADE METHOD OF GRADING

"SEASONED" OR "S" THE CERTIFICATION MARK OF THE PRODUCT CERTIFICATION PROGRAM THE APPLICABLE STANDARD

T6. ALL BOLTS SHALL BE M16 GRADE 4.6 BOLTS WITH HEXAGONAL HEADS U.N.O. BOLT HOLES TO BE DRILLED TO EXACT BOLT SIZE.

T7. WASHERS UNDER BOLT HEADS AND NUTS TO BE A MINIMUM 2.5 TIMES THE BOLT DIAMETER. ALL BOLTS AND SCREWS ARE TO BE HIP DIP GALVANISED. T8. ALL TIMBER JOINTS AND NOTCHES ARE TO BE 100mm MINIMUM AWAY FROM LOOSE KNOTS, SEVERE SLOPING GRAIN, GUM VEINS OR OTHER MINOR

T9. TIMBER TOLERANCES ON THE FINISHED WIDTH AND THICKNESS TO BE IN

ACCORDANCE WITH AS 2082, AS 1748 AND AS 3519 T10. END GRAINS TO RECEIVE A COAT OF 'TIMBER SEAL' WAX EMULSION.

T11. TIMBER TREATMENT TO AS 1604. T12. A MEMBRANE SUCH AS MALTHOID SHALL BE LAID ALONG THE TOP OF ALL

JOISTS PRIOR TO FIXING DECKING. T13. DECKING TO BE THICKNESSED AND LAID HEART SIDE DOWN. TOP FACE TO BE SAWN.

T14. UNSEASONED DECKING IS TO BE LAID TIGHT. T15. JOISTS TO BE INSTALLED NATURAL CAMBER UP.

S1. UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE OF THE FOLLOWING GRADE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARD.

TYPE OF STEEL	GRADE
UNIVERSAL BEAMS AND COLUMNS, PARALLEL FLANGE CHANNELS, LARGE ANGLES TO AS 3679.1	300 PLUS
FLATS, SMALL ANGLES, TAPER FLANGE BEAMS AND COLUMNS TO AS 3679.1	250
WELDED SECTIONS TO AS 3679.2	300
HOT ROLLED PLATES, FLOOR PLATES AND SLABS TO AS 3679	250
HOLLOW SECTIONS TO AS 1163	-
- CIRCULAR SECTIONS LESS THAN 265mm OUTSIDE DIAMETER	C250
- SECTIONS OTHER THAN THE ABOVE	C350

S2. ALL BEAMS AND RAFTERS SHALL BE FABRICATED AND ERECTED WITH NATURAL CAMBER UP. REFER TO DRAWINGS FOR OTHER CAMBER REQUIREMENTS.

S3. ELECTRICALLY ISOLATE STAINLESS STEEL COMPONENTS AND DIS-SIMILAR METALS USING NYLON OR PTFE SPACERS AND SLEEVES WHERE USED FOR PRIMARY STRUCTURAL MEMBERS.

S4. BOLTING BOLTING CATEGORIES ARE IDENTIFIED ON THE STRUCTURAL DRAWINGS IN THE FOLLOWING MANNER.

BOLT CATEGORY COMMENTS. 4.6/S COMMERCIAL BOLTS OF GRADE 4.6 TO AS 1111 SNUG TIGHTENED. 8.8/S HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252

SNUG TIGHTENED. 8.8/TB HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 FULLY TENSIONED TO AS 4100 AS A BEARING TYPE JOINT.

8.8/TF HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 FULLY TENSIONED TO AS 4100 AS A FRICTION TYPE JOINT WITH FAYING SURFACES LEFT UNCOATED U.N.O. S5. UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE M20 CATEGORY 8.8/S. NO

CONNECTION SHALL HAVE LESS THAN 2 BOLTS. ALL BOLTS AND WASHERS SHALL BE GALVANISED. ALL HOLES SHALL BE 2mm LARGER THAN THE BOLT DIAMETER UNLESS NOTED OTHERWISE.

S6. /TB AND /TF BOLT CATEGORIES SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 15 OF AS 4100 USING EITHER THE PART-TURN METHOD OR THE DIRECT-TENSION INDICATOR METHOD. S7. ALL DETAILS, GAUGE LINES ETC. WHERE NOT SPECIFICALLY SHOWN ARE TO

BE IN ACCORDANCE WITH ASIC DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL AND ASIC STANDARDISED STRUCTURAL CONNECTIONS. PLATES TO BE 10mm THICK, EX-STANDARD SQUARE EDGE FLATS UNLESS NOTED OTHERWISE.

S8. ALL BOLTS SHALL BE SUFFICIENT LENGTH TO PROVIDE A MINIMUM OF TWO (2) FULL THREADS BEYOND THE TIGHTENED NUT.

ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1554.1. ELECTRODES SHALL BE EITHER TO AS 1553, AS 1858, AS 2203 OR AS 2717 AS APPROPRIATE UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE 6mm CONTINUOUS CATEGORY SP USING E48XX ELECTRODES OR EQUIVALENT. ALL BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS CATEGORY SP TO AS 1554.1 U.N.O.

S10. GROUT ALL STEEL BASES BY DRY PACKING USING GROUT WHICH IS NON-SHRINK AND HAS A MINIMUM COMPRESSIVE STRENGTH AT 7 DAYS OF

S11. ALL GALVANISING OF STRUCTURAL STEELWORK SHALL BE TO AS 4630. THE CONTINUOUS AVERAGE ZINC COATING MASS SHALL BE 600g/m2

(550g/m2 MINIMUM). S12. PROVIDE SEAL PLATE TO THE ENDS OF ALL HOLLOW SECTIONS. PROVIDE VENT HOLES TO HOLLOW MEMBERS AND DRAIN HOLES TO ALL MEMBERS TO BE HOT DIP GALVANISED.

S13. STRUCTURAL STEELWORK SHALL HAVE THE FOLLOWING SURFACE TREATMENT IN ACCORDANCE WITH THE SPECIFICATION LIND

THEATTENT IN ACCORDANCE WITH THE STEELINGATION. S.N.S.				
ELEMENT	SURFACE CLEANING	PROTECTIVE COATING		
EXTERNAL	BLAST TO CLASS 2.5	H.D. GALVANISED		

S14. THE CONTRACTOR SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL AND TIMBER TO STEEL WHETHER OR NOT DETAILED ON THE DRAWINGS.

MATERIAL SCHEDULE

SELECT BRICK AND BREEZE BLOCK.

COLORBOND CUSTOMORB BMT 0.42. SELECT COLOR

PAINTED FC SHEETING. SELECT COLOR

CHANGEROOM WALLS PAINTED BLOCKWORK. SELECT COLOR

MILD STEEL PROTECTED AS BELOW

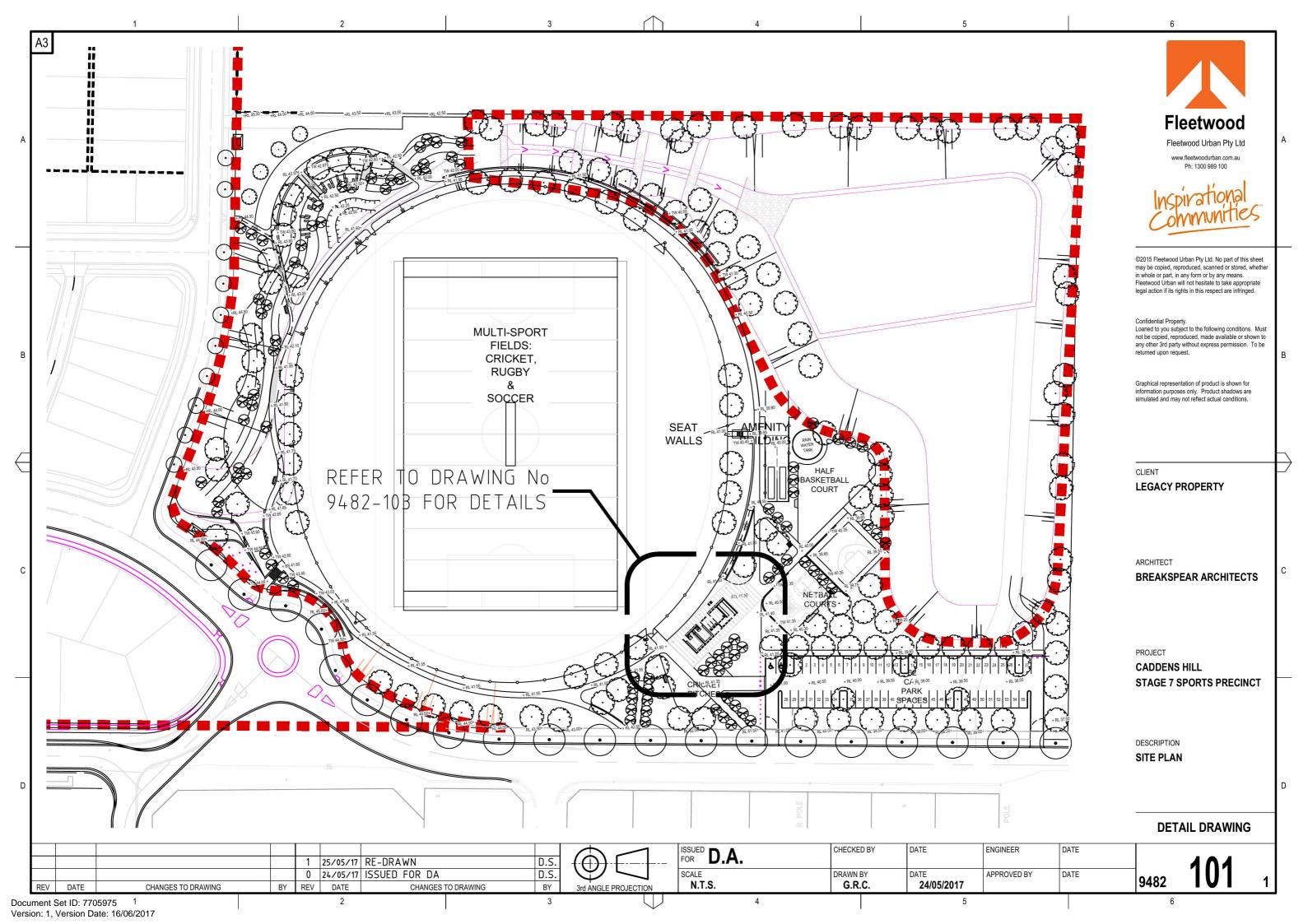
STEEL COATING PAINTED POSTS AND FRAMES

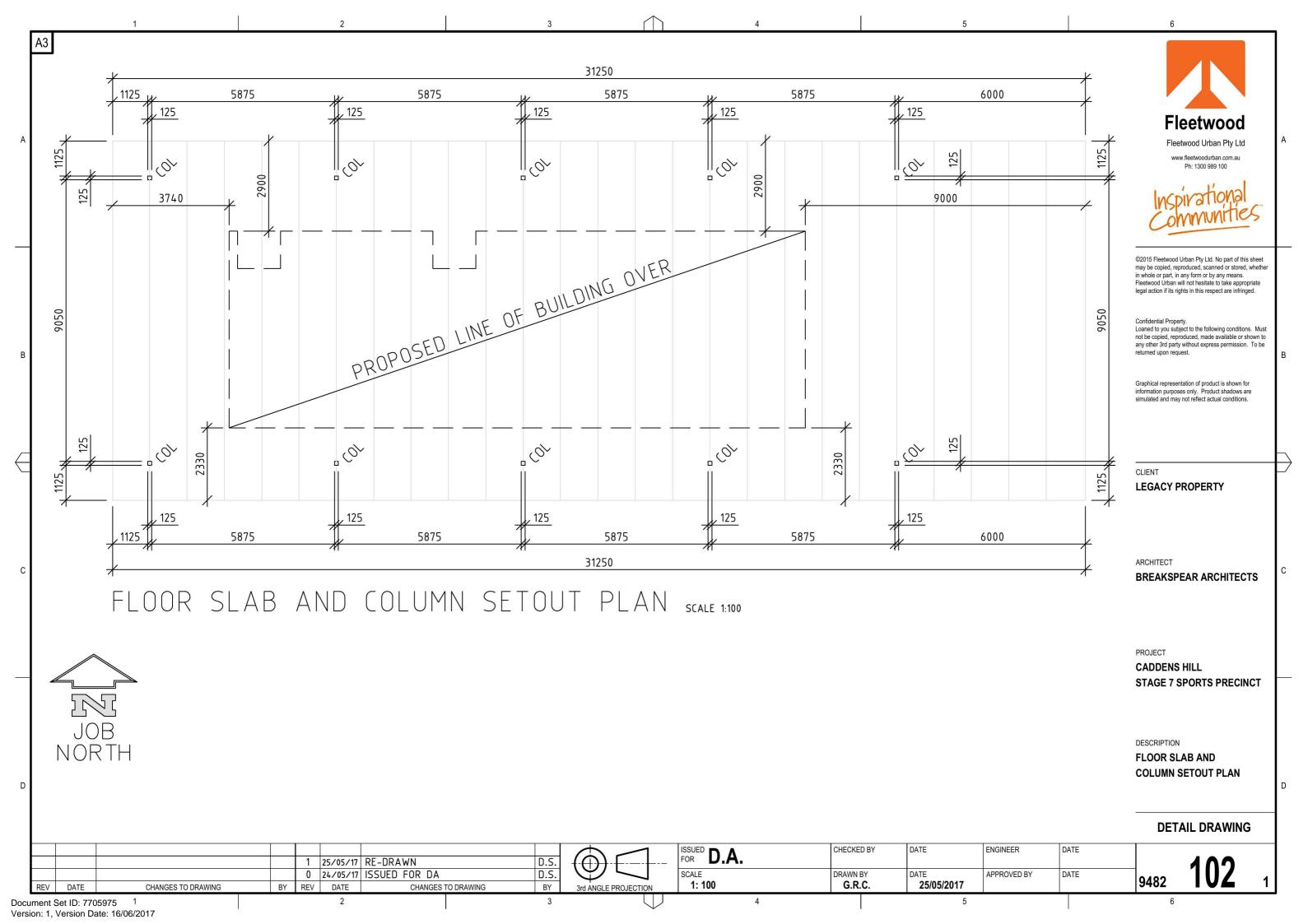
GENERAL : CONCRETE. SHOWERS : CERAMIC TILES

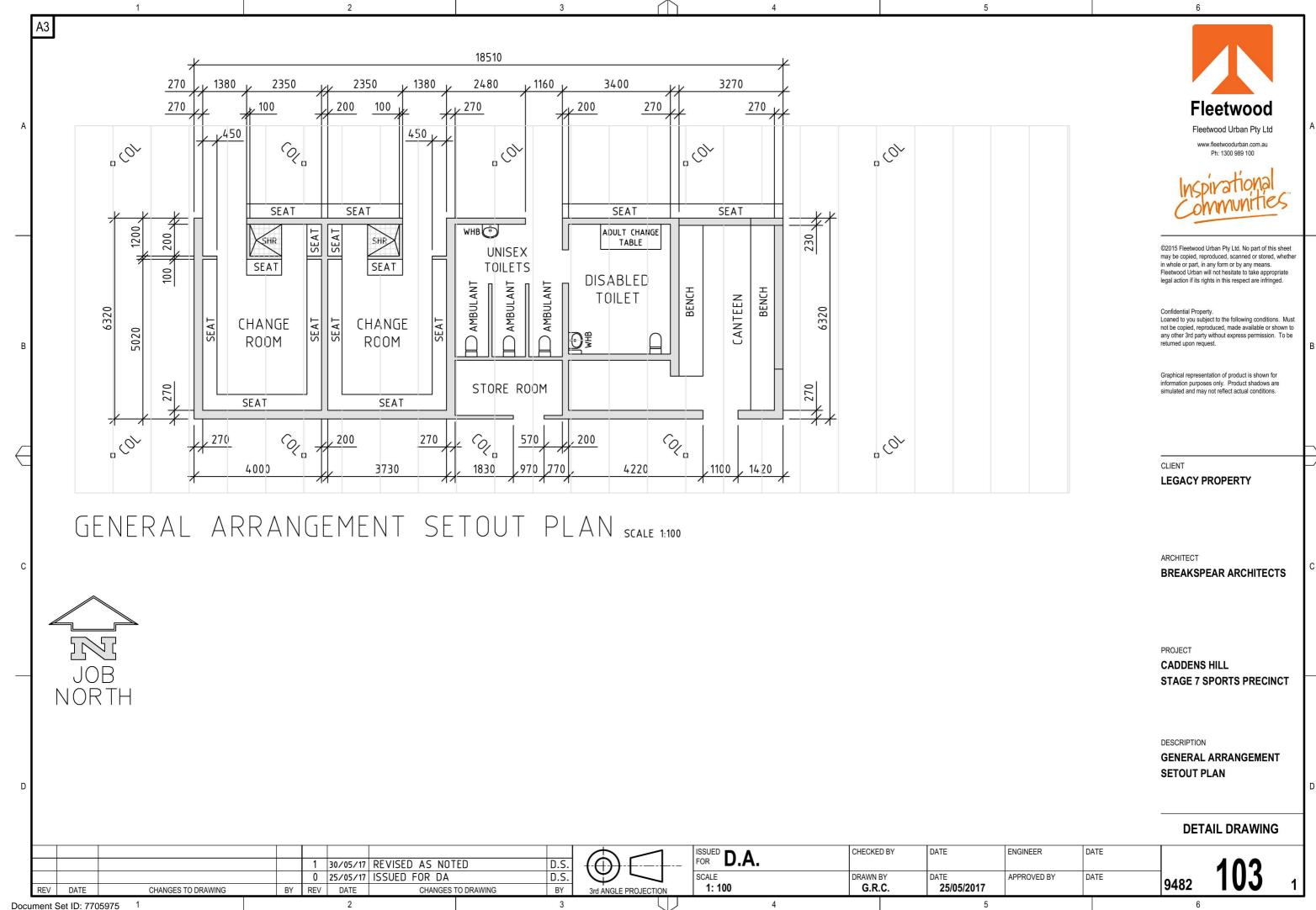
ALUMINIUM SECURITY SCREEN.

STAINLESS STEEL FITTINGS

CADDENS HILL Fleetwood Urban PTY LTD CONFIDENTAL PROPERTY. LOANED TO YOU SUBJECT TO THE FOLLOWING CONDITIONS. MUST NOT BE ABN 40 000 789 748 STAGE 7 SPORTS PRECINCT COPIED, REPRODUCED, MADE AVAILABLE OR SHOWN TO ANY OTHER 3rd PARTY WITHOUT EXPRESS PERMISSION. TO BE RETURNED UPON REQUEST. **GENERAL NOTE SHEET** 3rd ANGLE PROJECTION CHECKED BY ENGINEER 0 | 24/05/17 | ISSUED FOR DA PH: 1300 989 100 DRG N.o 9482-100 SHEET PROJECT No. APPROVED BY A1 | SHEET | 1 of 3 Fleetwood http://www.fleetwoodurban.com.au G.R.C. 22/05/17 DRAWING No. REFERENCE DRAWING TITLE REV DATE 9482 CHANGES TO DRAWING







Version: 1, Version Date: 16/06/2017

