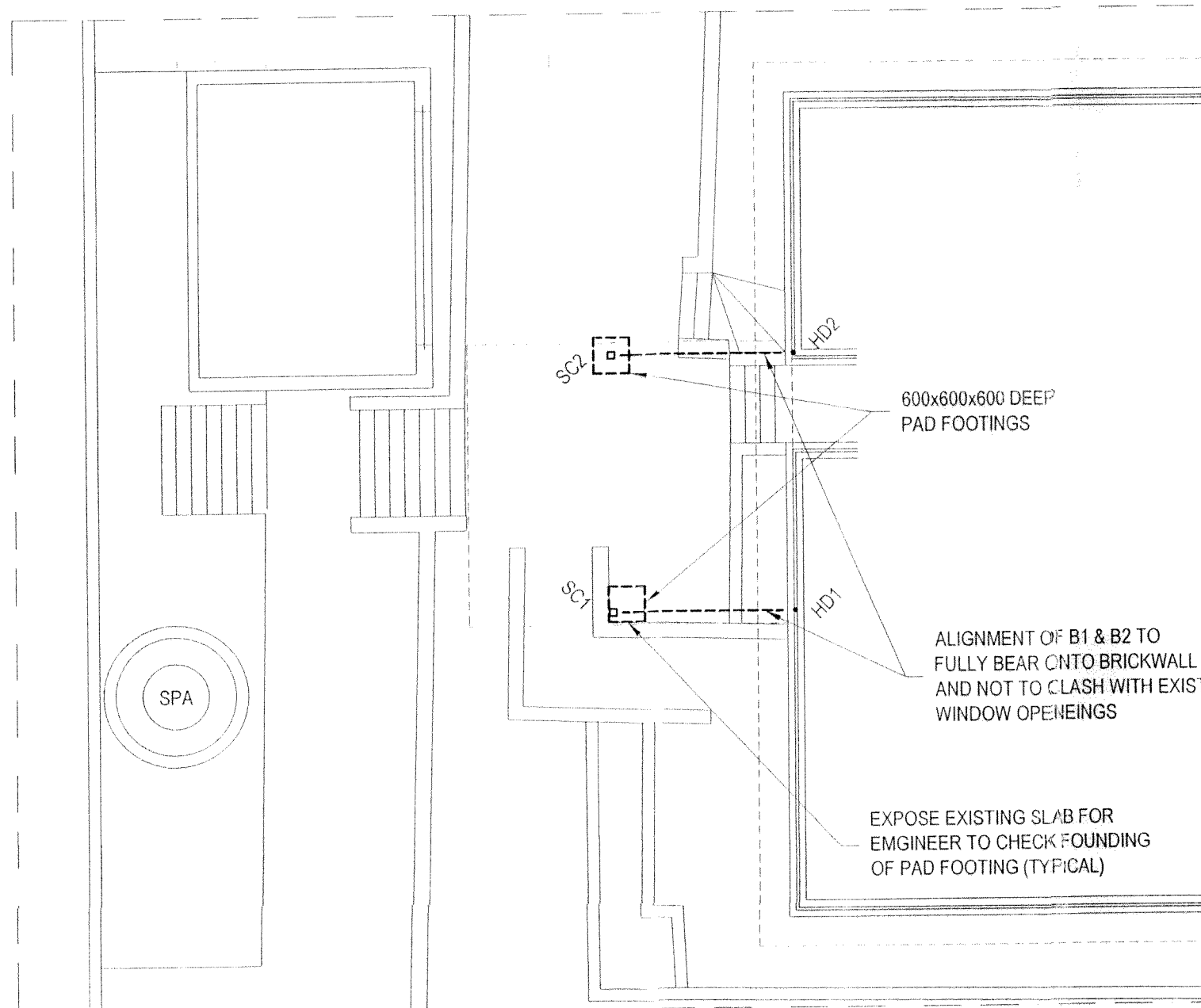
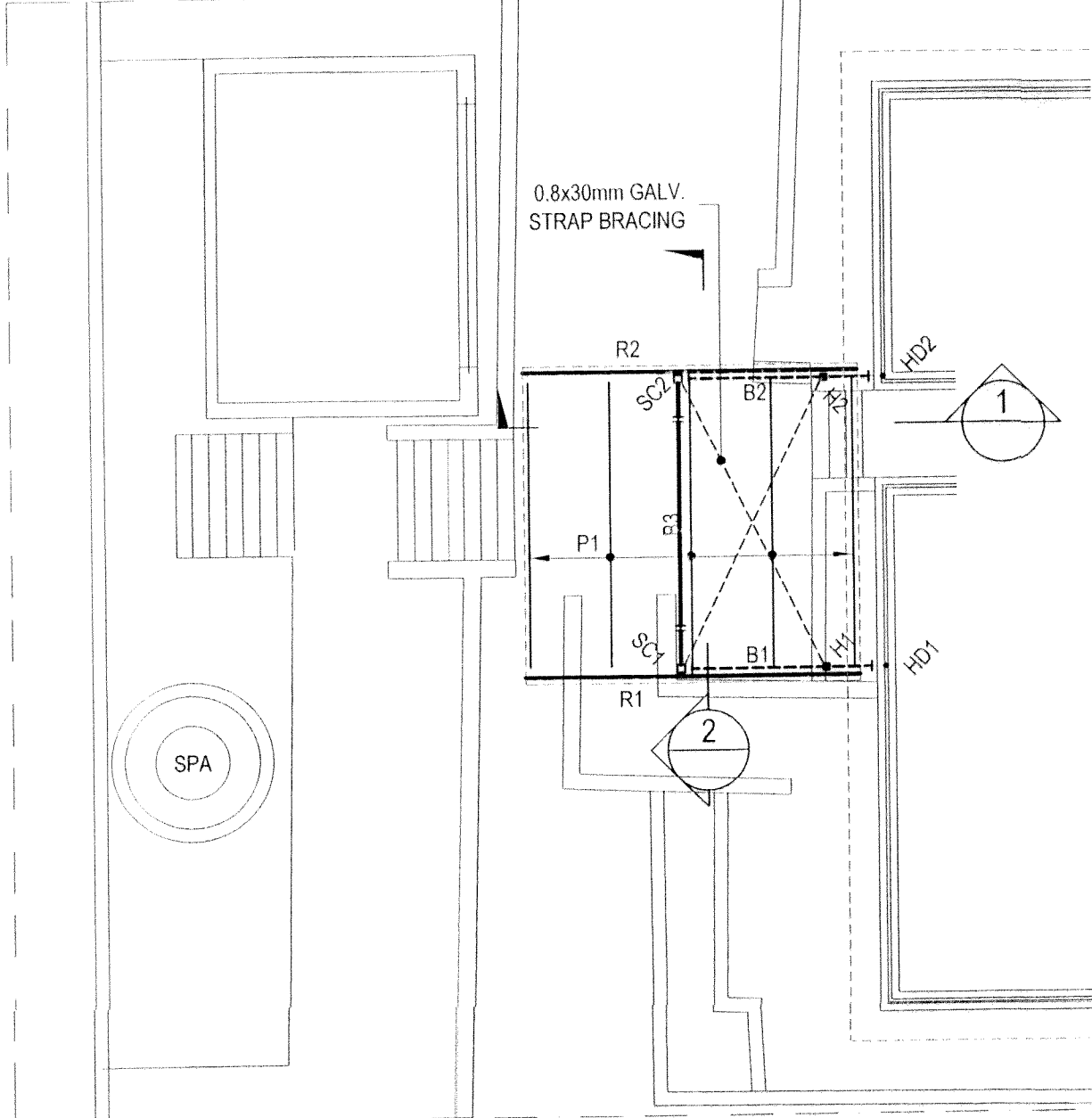




FOOTING PLAN
1:100

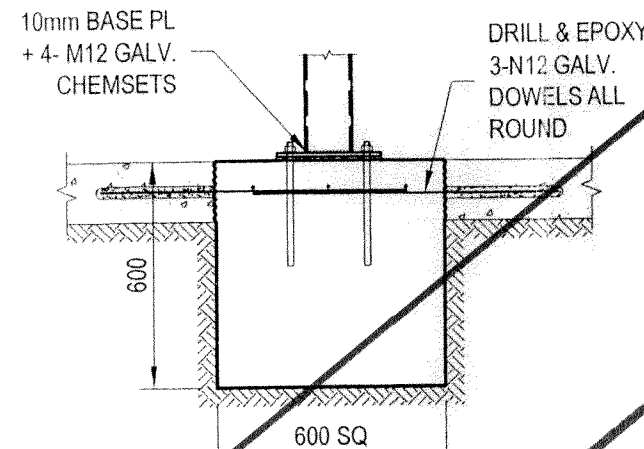


SHADE STRUCTURE FRAMING PLAN
1:100

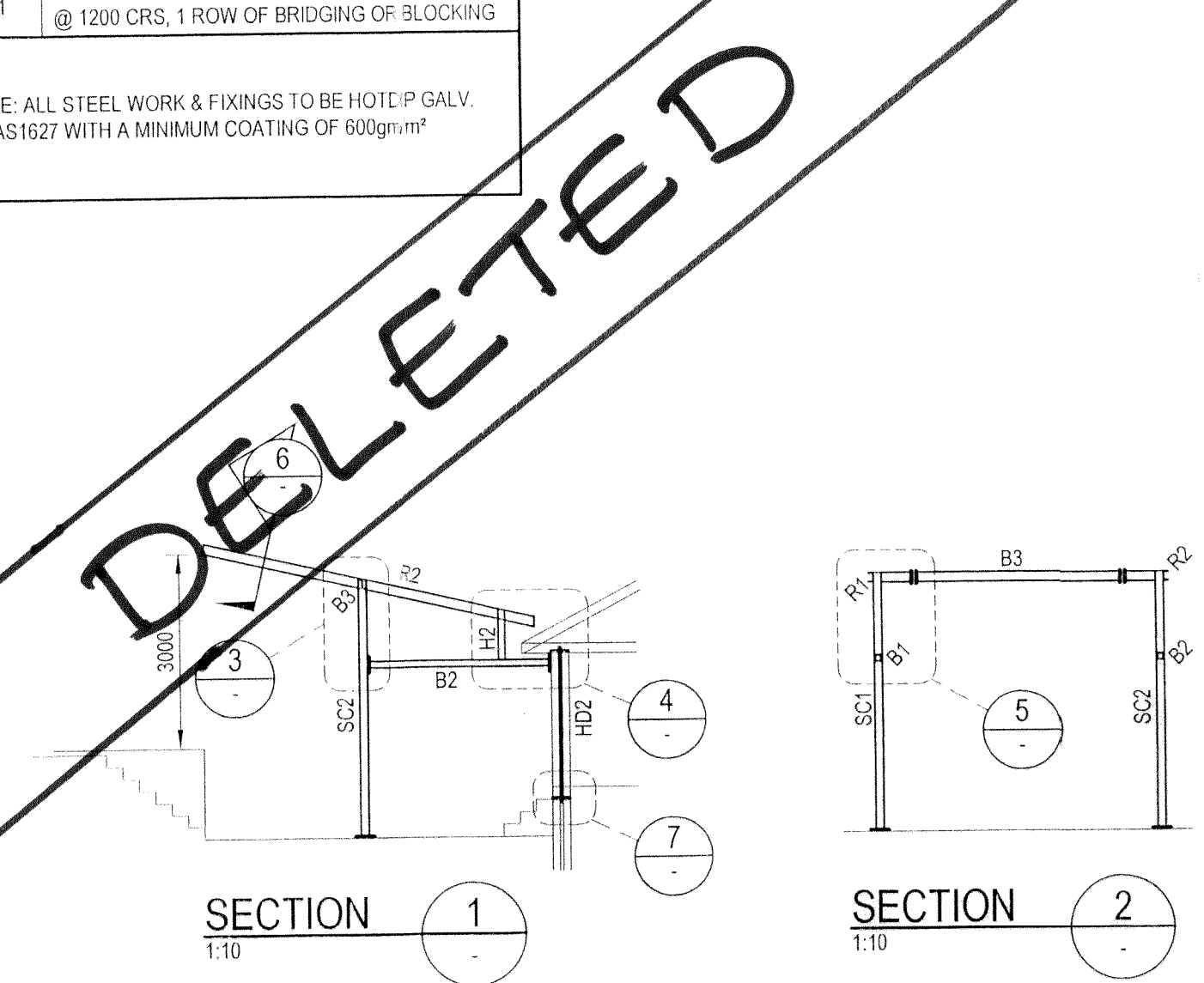
*** NOTE: SHADE STRUCTURE (PERGOLA) DELETED OFF DA 2012/0381**

MEMBER SCHEDULE	
TAG	SIZE
SC1	125x125x6 SHS
SC2	125x125x6 SHS
HD1	M16 GALV. THREADED ROD 2m LONG + END PL's
HD2	M16 GALV. THREADED ROD 2m LONG + END PL's
H1	100x100x4 SHS
H2	100x100x4 SHS
B1	100x100x4 SHS
B2	100x100x4 SHS
B3	150 UB 18
R1	150 PFC
R2	150 PFC
P1	150x50 F27 KILN DRIED HW OR C150 15 Z450 @ 1200 CRS, 1 ROW OF BRIDGING OF BLOCKING

NOTE: ALL STEEL WORK & FIXINGS TO BE HOT DIPPED GALV. TO AS1627 WITH A MINIMUM COATING OF 600g/m²

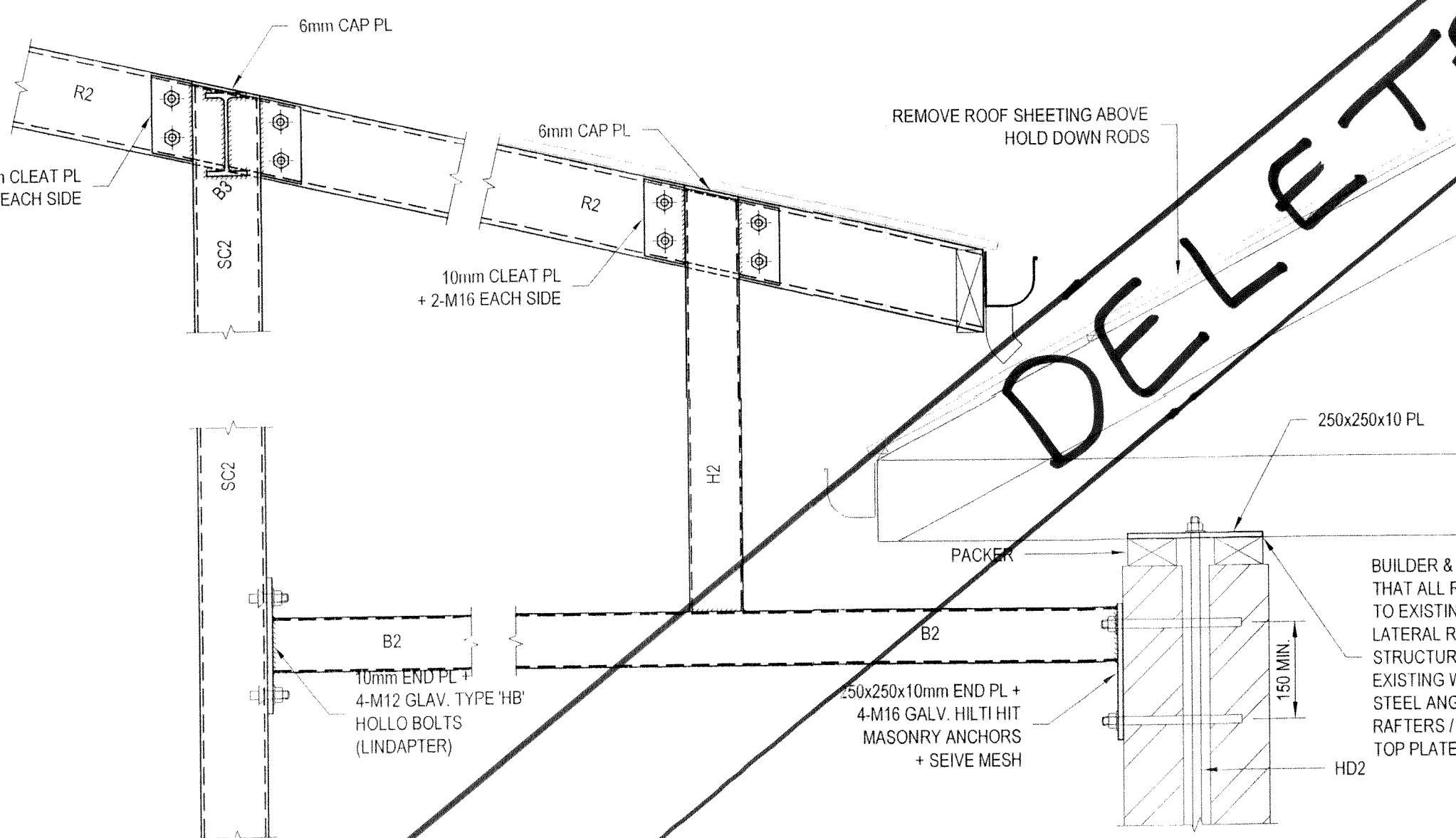


TYPICAL PAD



SECTION 1
1:10

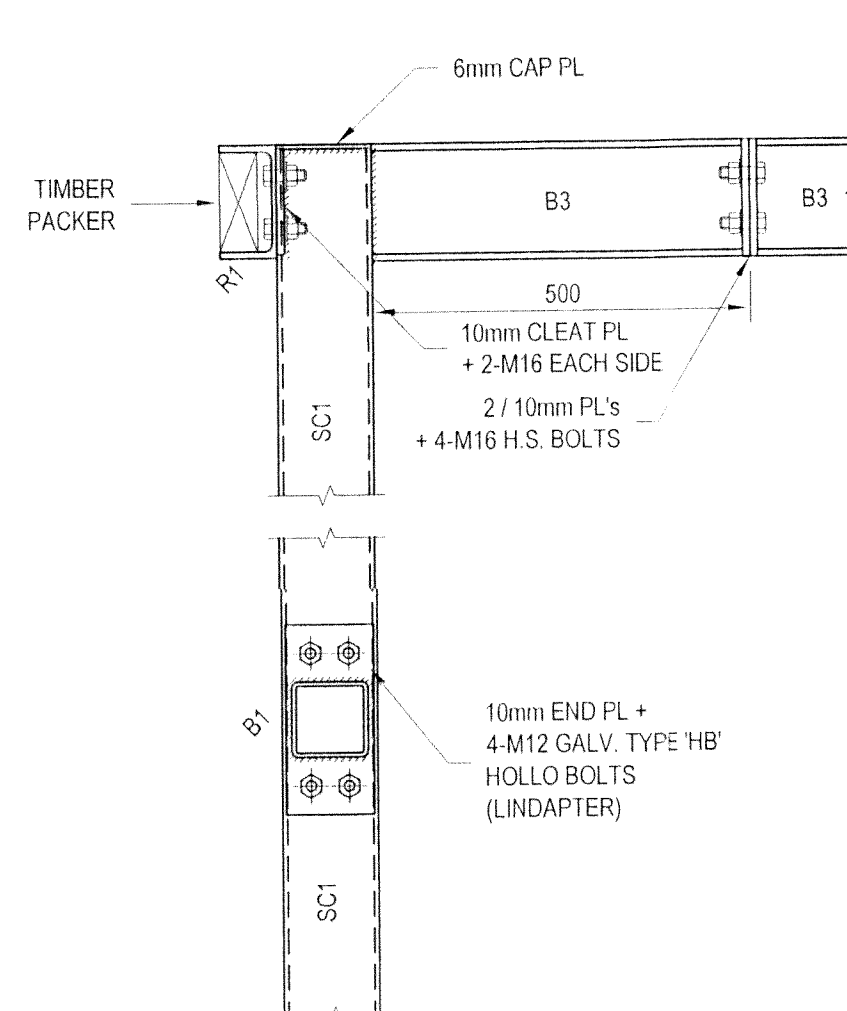
SECTION 2
1:10



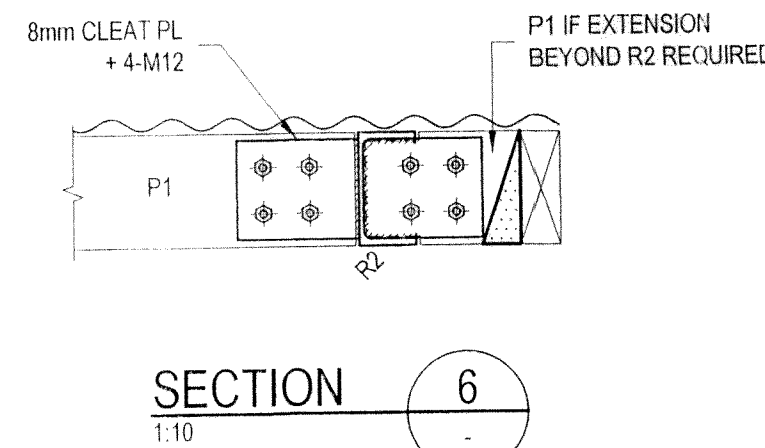
SECTION 3
1:10

SECTION 4
1:10

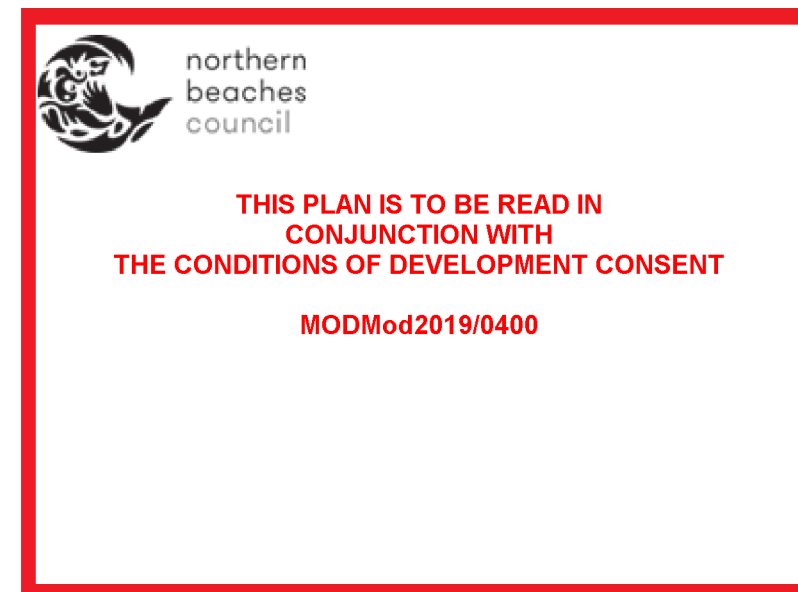
SECTION 7
1:10



SECTION 5
1:10



SECTION 6
1:10



TIMBER

- All timber construction to conform with AS 1684 and the NSW Timber Framing Manual in addition to the details shown.
- Tie down ends of all members in accordance with AS 1684.
- Refer to the specification for preservatives and finishes to timber.
- External timber to be hardwood (class 2 to AS 1703.2 min.) or treated pine (preservative) equivalent.
- All bolts, nuts & washers shall be hot dipped galvanised U.N.O. Reighton bolts & mortis after installation, all bolts to be M16 grade 4.6 with hexagonal heads U.N.O. Washer shall be a min. diameter of 2.5 times the bolt diameter U.N.O.
- All dimensions refer to finished sizes.

BRICKWORK NOTES

- Conform to AS3700. Do not build off proposed slabs.
- Cutting and chasing of brickwork to have prior approval from Engineer.
- Minimum compressive strength of bricks shall be 20MPa.
- Minimum mortar to be 1:1.6 U.N.O. Do not use bond breaking wetting agents.
- Reinforce all brick walls on slabs with no walls under with 216 rods per leaf 1c up from slab.
- The walls to steel or concrete structure with 32mm x 1.2mm heavy galv. steel straps 300 long at every 4th course.
- Brick ties to walls to be at 600 centres horizontally and every 4th course vertically.
- Provide expansion joints at 6m maximum centres.
- All piers, except where required for weepholes are to be fully filled with mortar.

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GENERAL NOTES

- Do not obtain dimensions by scaling these drawings. Only principal structural dimensions are shown. All dimensions are in millimetres.
- Read these drawings in conjunction with all other contract documents and the requirements of the relevant Building Authorities. Before proceeding with work, clarify any discrepancies, verify all setting out dimensions.
- Maintain the structure in a safe condition during construction. Do not exceed the design live loads shown or cause any element to be overstressed.
- Design Loads in accordance with AS 1170:
Live Load: Office, parking 3 kPa
Wind Velocity Vw50, Vp1, Vw38 m/s
Balconies, stairs 4 kPa
Structural Importance Multiplier M=1
Fences, plantrooms, shops 5 kPa
Terrain category 2
Others 0.25kPa
- Approval of a substitution is not authorisation for an extra.

FOUNDATIONS

- Foundations have been designed for an allowable bearing pressure of 150 kPa. Obtain approval for the proposed foundation material before placing concrete. Do not found on top soil, fill or vegetation. Note: Bearing capacity of greater than 500 kPa refers to rock.
- The design only applies for ground and foundation levels as shown on the drawings.
- Site classification to AS 2870 M foundation material.
- Backfill foundation walls so that the level of fill on one side of the wall is never more than 450 above the level on the other side, except where detailed retaining walls are used.

CONCRETE

- Conform to AS 3600 and the ACSE Concrete Specification except where varied by the contract documents.
- Provide concrete with a strength of $f_c = 25$ MPa U.N.O.
OTHER: maximum slump of 80
maximum aggregate size 20
cement type GP
no admixtures, or breccia exclude CaCl₂
maximum shrinkage strain of 700 microstrains for slabs & beams U.N.O.
- Sizes of concrete elements do not include thickness of applied finishes.
- Beam depths are written first and include slab thickness.
- Do not make any construction joints, holes or chases in the concrete elements unless shown or approved by the Engineer.
- Do not place pipes or conduits within the concrete cover to reinforcement.
- Reinforcement notation:
N - Grade D 500m bar to AS/NZS 4671
SURF - Grade D500 SLID 500 RL to AS/NZS 4671
Low ductility welded mesh square or rectangular
R - Grade R 250 N hot-rolled plain bars to AS/NZS 4671
S - Grade S 250 N hot-rolled deformed bars to AS/NZS 4671
SNB - Grade D 500 SMD 500 RH
W - Hard drawn plain wire to AS 1303
Normal ductility welded mesh square or rectangular
S - Grade S 250 N hot-rolled deformed bars to AS/NZS 4671
Example: 8 N16-200T denotes 8 deformed bars of 16 diameter at 200 centres placed in the top of the element.
- Provide clear concrete cover to reinforcement as follows: U.N.O.

Element	Interior	Exterior	Against Ground
Foundations	50mm	50mm	50mm
Columns, Pedestals	30mm	50mm	50mm
Slabs, Walls	25mm	25mm	40mm on Membrane
Beams	25mm	50mm	50mm
Blockwork	50mm from appropriate outside face		

- Use maximum bar chair spacings of 60 diameters for supporting bars and 750 for fabric. Plastic bar chairs that restrict entry of concrete into and around them are not to be used.
- Provide laps only at locations shown unless otherwise approved by the Engineer.
- For closing fabric, place top fabric main with uppermost and bottom fabric main with lowermost, in direction of arrows.
- Supply and fix fabric in flat sheets. Overlap first and second cross wires of each sheet by 30 at laps.
- Do not weld reinforcement unless shown or approved by the Engineer.
- Tie all unsupported bars to N12 350 all laps 450.
- Do not build brick or block work on suspended work until all shoring has been removed.
- Prop cantilever slabs and beams from a firm support for a minimum of 28 days.
- Provide the Engineer with 24 hours notice of reinforcement being ready for inspection. Do not order concrete until reinforcement is approved.
- Reinforcement is shown diagrammatically and not necessarily in true position.
- All concrete shall be placed and cured in accordance with Section 4.4, 4.5 & 17.15 AS 3600. Except that the min. curing time shall not be less than 7 days. Apply aliphatic alcohol immediately after final screeding of slabs to prevent premature drying out. (This is not a substitute for curing.) Where curing compound is used it must be applied (A) onto slabs within 2 hrs of finishing operation (B) onto walls and columns immediately after removal of framework.
- Horizontal framework shall be stripped when approved by the engineer.
- Slabs and beams shall bear on only the beam, walls, etc. shown on the drawings; all other building elements shall be kept 15mm clear from soffits of structure.
- Where slabs or beams bear on masonry, the top course shall be level, smooth and covered with slip joint U.N.O. Slip joint to have 2 layers of galvanised sheet metal with graphite grease in between.
- Formwork shall be designed and constructed in accordance with AS3601.

STEELWORK NOTES

- All workmanship and materials shall be in accordance with current editions of SAA codes AS 4100, AS 1554 and ACSE Steel Specification, except as varied by the contract documents.
- Structural grade (Fy 300MPa) quality steel shall be used throughout unless noted otherwise.
- Submit all shop drawings to the Engineer for approval of general arrangements and details of structural elements before commencing fabrication.
- Steelwork not to be encased or not otherwise noted shall be given one coat of approved metallic primer at least 48 hours before despatch. All external steel to be hot dipped galvanised U.N.O.
- Steelwork to be encased in concrete shall not be painted but shall be given one coat of cement wash. Members to be wrapped with No. F41 fabric or 5mm wire at 150mm pitch and encased in 20MPa concrete with minimum 50mm cover.
- The contractor shall provide and employ any additional temporary bracing etc. necessary to adequately and safely hold steelwork in position during construction.
- Proprietary items (e.g. purlins, bolts, etc.) shall be installed in accordance with manufacturers specifications U.N.O.
- Steelwork:
Welding to AS1554 by qualified welders
10mm thick gusset, fin and end plates, fully welded.
6mm continuous fillet weld made with general purpose steel electrodes in accordance with AS 1554
Chg. at welds free of slag
S10 Do not grind under base plates until first level steelwork is plumb and fixed by welding or bolting
S11 Bolts to be grade 8.8 Metric Hexagon Bolts.
H.S. Bolt denotes grade 8.8 high strength steel bolts to AS 1252
- bolting category
8.8/S = snug tight. 8.8/T = fully tensioned to AS1511.
S12 All cold formed steel shall be in accordance with AS 1538 for design & AS1387, 1594, 1595 for material properties.
S13 All purlins & girts shall be grade 450 steel zinc coated min. 200g/m² U.N.O.

RYAN POOLS

NEW POOL CONSTRUCTION & POOL RENOVATIONS
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Project **NEW SHADE STRUCTURE
KYLIE MASSI
14 LANCASTER CRESCENT, COLLAROY**

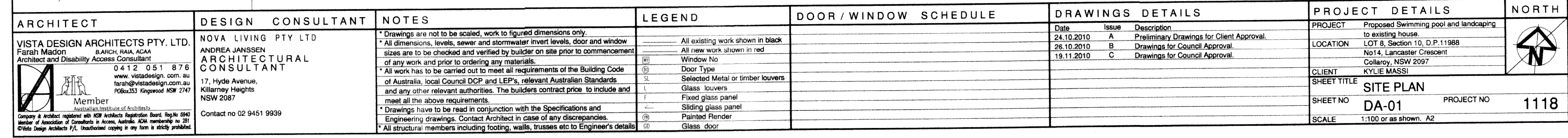
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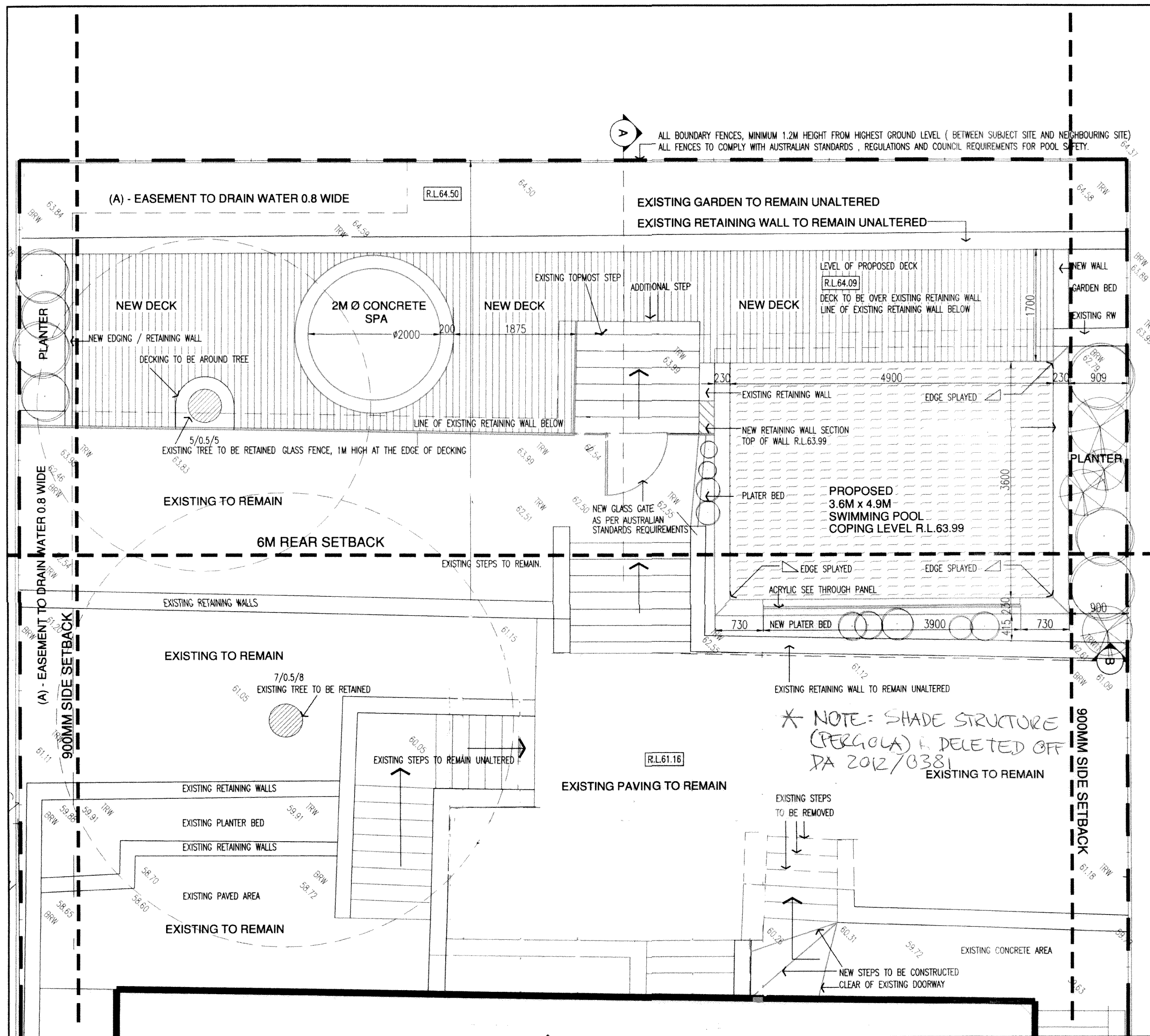
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**THIS PLAN IS TO BE READ IN
CONJUNCTION WITH
THE CONDITIONS OF DEVELOPMENT
CONSENT**

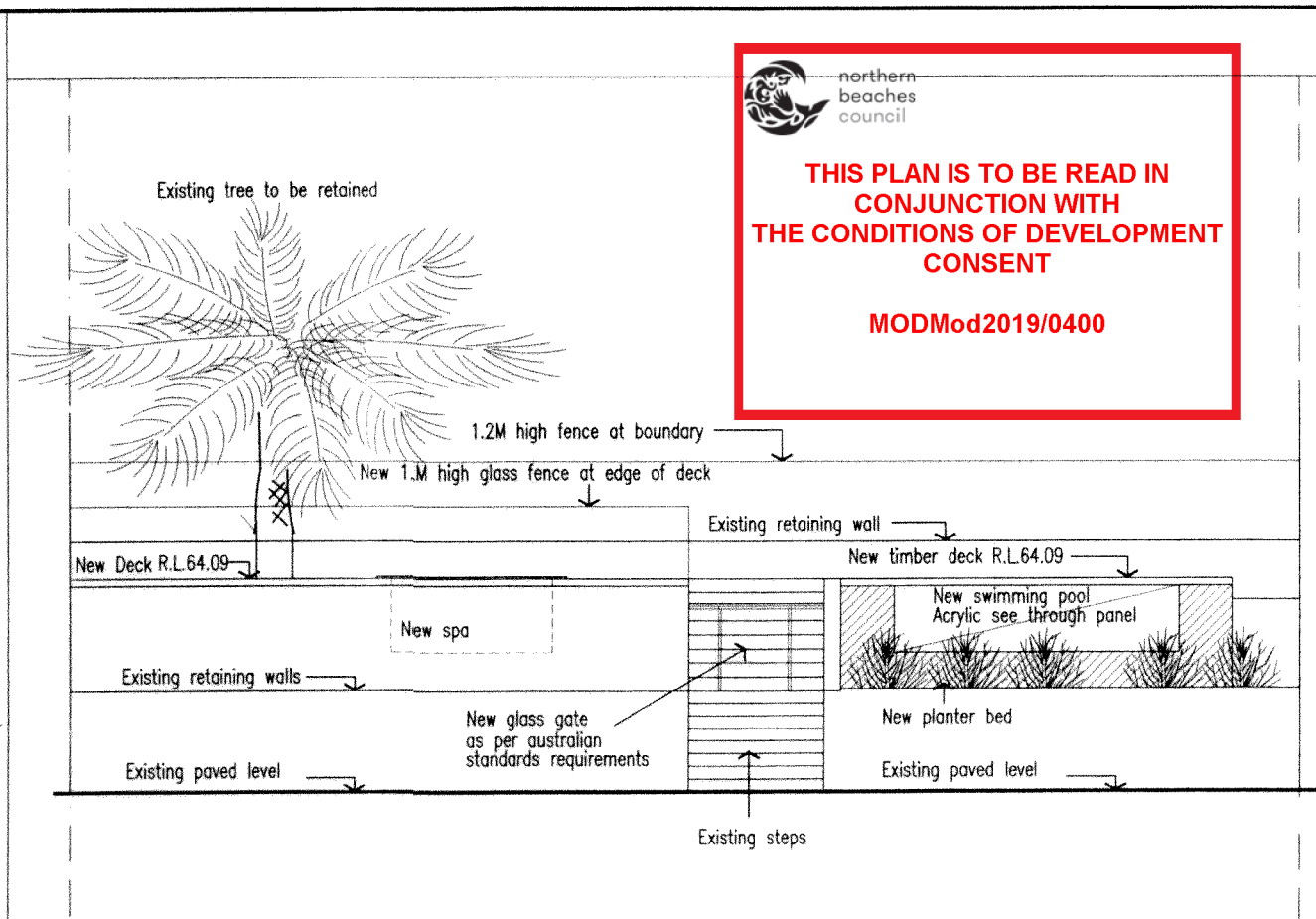
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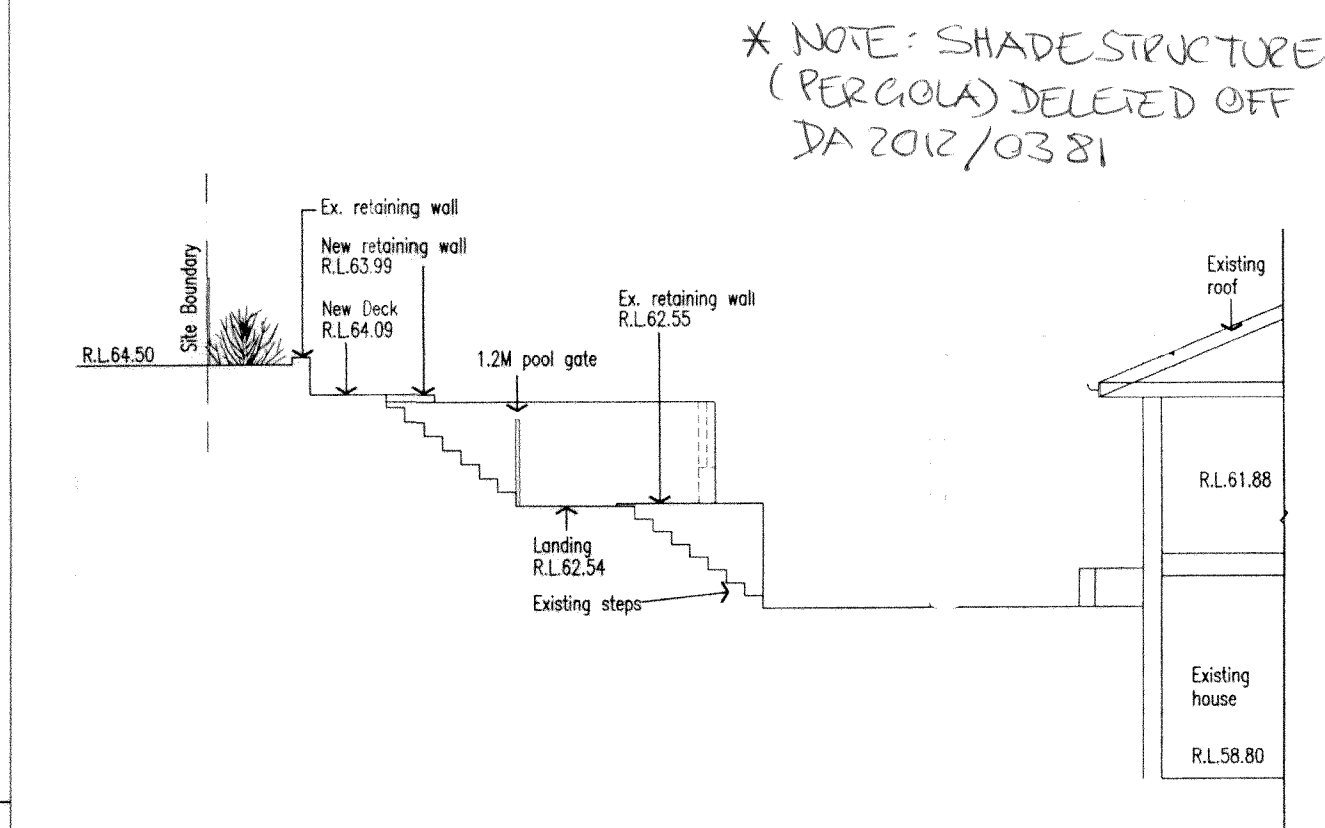
DETAILED PLAN

SCALE 1:50



SECTION B

SCALE 1:50



SECTION A

SCALE 1:50

ARCHITECT	DESIGN CONSULTANT	NOTES	LEGEND	DOOR / WINDOW SCHEDULE	DRAWINGS DETAILS	PROJECT DETAILS	NORTH																										
VISTA DESIGN ARCHITECTS PTY. LTD. Farah Madon B.Arch, RAIA, ACAA Architect and Disability Access Consultant 0412 051 876 www.vistadesign.com.au farah@vistadesign.com.au POBox253 Kingswood NSW 2747 Member Australian Institute of Architects Company & Architect registered with NSW Architects Registration Board. Reg No 67497 Association of Architects in Access, Australia. ACAA membership no 281 © Vista Design Architects P/L. Unauthorised copying in any form is strictly prohibited.	NOVA LIVING PTY LTD ANDREA JANSSEN ARCHITECTURAL CONSULTANT 17, Hyde Avenue, Killarney Heights NSW 2087 Contact no 02 9451 9939	* Drawings are not to be scaled, work to figured dimensions only. * All dimensions, levels, sewer and stormwater invert levels, door and window sizes are to be checked and verified by builder on site prior to commencement of any work and prior to ordering any materials. * All work has to be carried out to meet all requirements of the Building Code of Australia, local Council DCP and LEP's, relevant Australian Standards and any other relevant authorities. The builders contract price to include and meet all the above requirements. * Drawings have to be read in conjunction with the Specifications and Engineering drawings. Contact Architect in case of any discrepancies. * All structural members including footing, walls, trusses etc to Engineer's details	All existing work shown in black All new work shown in red Window No Door Type Selected Metal or timber louvers Glass louvers Fixed glass panel Sliding glass panel Painted Render Flare, their		<table><thead><tr><th>Date</th><th>Issue</th><th>Description</th></tr></thead><tbody><tr><td>24.10.2010</td><td>A</td><td>Preliminary Drawings for Client Approval.</td></tr><tr><td>26.10.2010</td><td>B</td><td>Drawings for Council Approval.</td></tr><tr><td>19.11.2010</td><td>C</td><td>Drawings for Council Approval.</td></tr></tbody></table>	Date	Issue	Description	24.10.2010	A	Preliminary Drawings for Client Approval.	26.10.2010	B	Drawings for Council Approval.	19.11.2010	C	Drawings for Council Approval.	<table><tbody><tr><td>PROJECT</td><td>Proposed Swimming pool and landscaping to existing house.</td></tr><tr><td>LOCATION</td><td>LOT 8, Section 10, D.P.11988 No14, Lancaster Crescent Collaroy, NSW 2097</td></tr><tr><td>CLIENT</td><td>KYLIE MASSI</td></tr><tr><td>SHEET TITLE</td><td>PLAN & SECTIONAL ELEVATIONS</td></tr><tr><td>SHEET NO</td><td>DA-02</td></tr><tr><td>PROJECT NO</td><td>1118</td></tr><tr><td>SCALE</td><td>1:100 or as shown. A2</td></tr></tbody></table>	PROJECT	Proposed Swimming pool and landscaping to existing house.	LOCATION	LOT 8, Section 10, D.P.11988 No14, Lancaster Crescent Collaroy, NSW 2097	CLIENT	KYLIE MASSI	SHEET TITLE	PLAN & SECTIONAL ELEVATIONS	SHEET NO	DA-02	PROJECT NO	1118	SCALE	1:100 or as shown. A2	
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