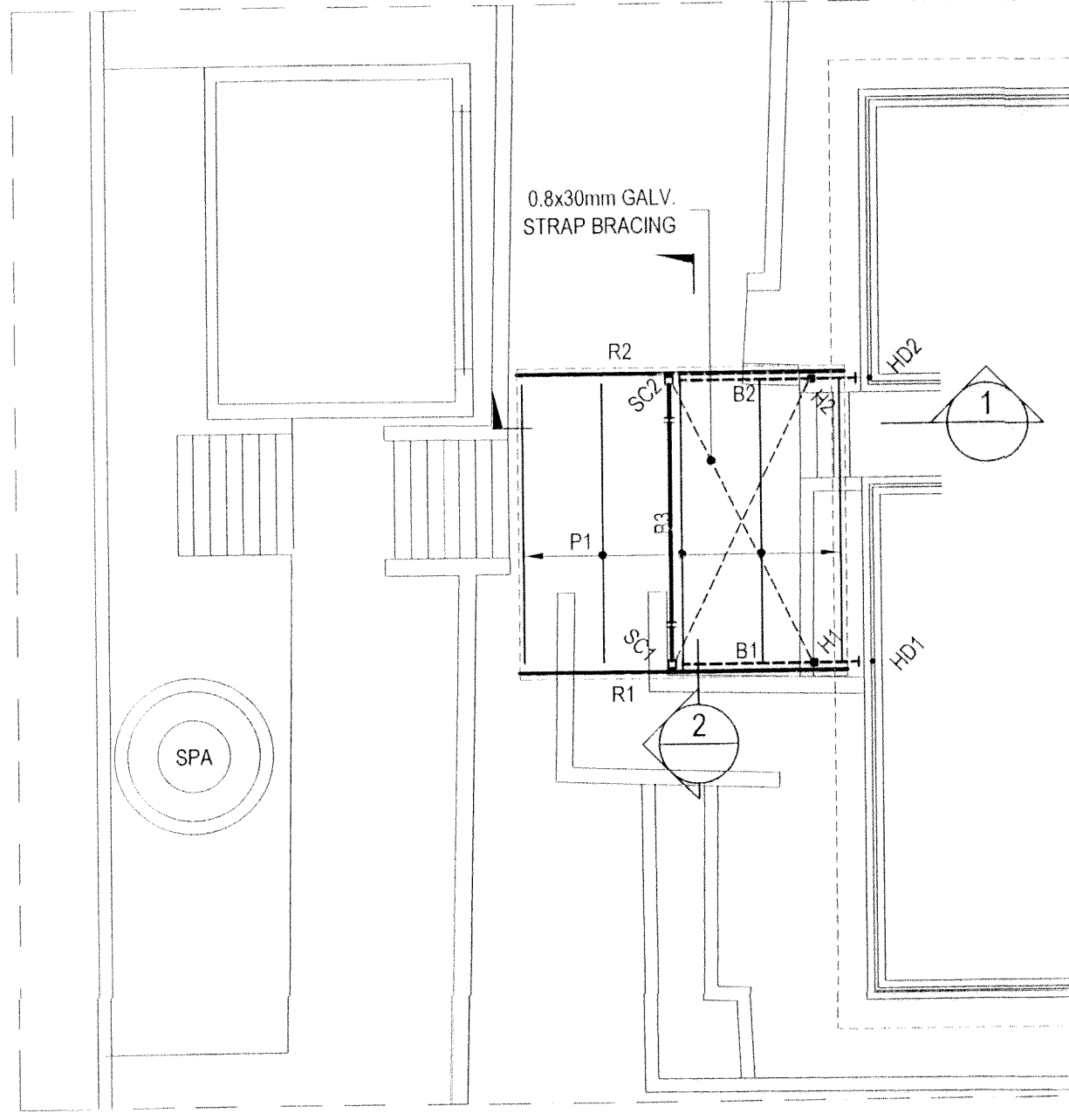
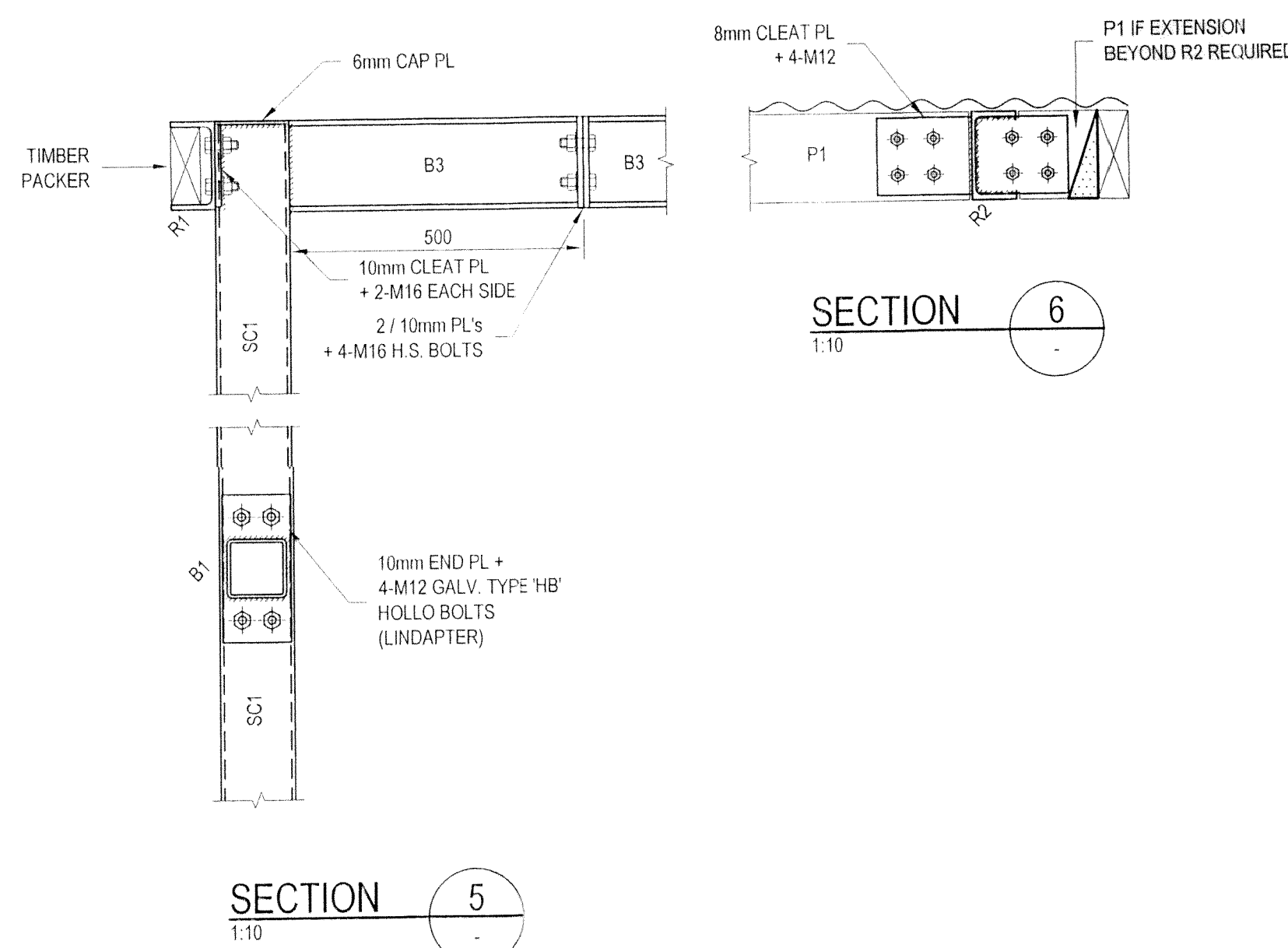




SHADE STRUCTURE FRAMING PLAN

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



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 HOTDIP GALV
TO AS1627 WITH A MINIMUM COATING OF 600g/m²



G1	Do not obtain dimensions by scaling these drawings. Only principal structural dimensions are shown. All dimensions are in millimetres.	
G2	Read drawings in conjunction with all other contract documents and the requirements of the relevant Building Regulations. Before proceeding with work, clarify any discrepancies, verify all setting out dimensions.	
G3	Maintain the structure in a condition during construction. Do not exceed the design live loads shown or cause any element to be overstressed.	
G4	Design Loads in accordance with AS 1170	
	Live Load	Windload
	Office, storage, parking 3 kPa	Wind Velocity Vw, Vp1, Vp3 m/s
	Balcony, stairs 4 kPa	Structural Importance Multiplier M_s
	Equipment, plantrooms, shops 5 kPa	Terrain category
	Roofs 0.25kPa	
	Others	
G5	Approval of a substitution is not authorisation for an extra	

F1 Footings 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.

F2 The design only applies for ground and foundation levels as shown on the drawings.

F3 Site classification to AS 2870 "M" foundation material.

F4 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.

C2 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 encased CaC₂
maximum shrinkage strain of 100 microstrains for slabs & beams U.N.O.
C3 Sizes of concrete elements do not include thickness of applied finishes
C4 Beam depths are written first and include slab thickness
C5 Do not make any construction joints, holes or chases in the concrete elements unless shown or approved by the Engineer
C6 Do not place pipes or conduits within the concrete cover to reinforcement
C7 Reinforcement notation
R - RSD 500M bar to AS/NZS 4671
SLR - Low 500 SLR 500 SLR to AS/NZS 4671
R - Low ductility welded mesh square or rectangular
RSD - RSD 250 N D500 plain bar to AS/NZS 4671
SARN - RSD 500 SMD 500 SMD
W - Half-drawn plain wire to BS 1303
Normal ductility welded mesh square or rectangular
S - Steel 260 S hot-rolled deformed bars to AS/NZS 4671
Example: 8x16x2001 denotes 8 bars of 16 diameter at 200 centres placed in the top of the element.
C8 Provide clear concrete cover to reinforcement as follows: U.N.O

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

- C9) Use maximum bar and chair spacings of 60 diameters for supporting bars and 750 for fabric. Plastic bar chairs that resist crushing of concrete into and around them are to be used.
- C10) Provide laps only at locations shown unless otherwise approved by the Engineer.
- C11) For oblong fabrics, place top fabric main wire uppermost and bottom fabric main wire lowermost, in direction of main span.
- C12) Supply and lay fabric in flat sheets. Overlap first and second cross wires of each sheet by 30 ft laps.
- C13) Do not weld reinforcement unless specifically approved by the Engineer.
- C14) Tie all unsupported bars to N12/30 14 lbs 450.
- C15) Do not build brick or block work on suspended work until shoring has been removed.
- C16) Prior to casting slabs and beams from a form support for a minimum of 26 days.
- C17) Provide the Engineer with 24 hours notice of reinforcement being ready for inspection. Do not order concrete until reinforcement is approved.
- C18) Reinforcement is shown diagrammatically and not necessarily in true position.
- C19) All concrete shall be placed and cured in accordance with Section 4.4, 4.5, 4.6 & 17.15 AS 3600. Except that the min. curing time shall not be less than 7 days. Apply plastic airtight immediately after final spreading of slabs to prevent premature drying out. (This is not a substitute for curing.) Where curing compound is used it must be applied (a) on slabs within 2 hrs of finishing operation (b) on walls within 4 hrs of finishing operation (c) on beams within 2 hrs of removal of framework.
- C20) Horizontal framework shall be stripped when approved by the Engineer.
- C21) Slabs and beams shall be supported only on the beam, walls, etc. shown on the drawings; all other building elements shall be 15mm clear from soffits of structure.
- C22) Where slabs or beams bear on masonry, the top course shall be level, smooth and covered with slip joint U.N.O. Strip.
- C23) All faces of galvanneal sheet shall be painted with graphite grease in accordance with AS 3600.
- C24) Framework shall be designed and constructed in accordance with AS 3600!

GENERAL

GENERAL

S1 All workmanship and materials shall be in accordance with current editions of SAA codes AS 4100, AS 1594 and AS 1554.

S2 Steel Specification, except as varied by the contract documents.

S3 Structural grade (FY 300MPa) quality steel shall be used from thorough, untested stock.

S4 All shop drawings to be Engineer for approval (see general arrangement) of all elements before commencing fabrication.

S5 Steelwork to not be encased or otherwise noted shall be given one coat of approved metallic primer at least 40 microns dry film thickness. All external steel to be hot dipped galvanized U.N.O.

S6 Steelwork to be fabricated in concrete shall not be painted but shall be given one coat of cement wash. Members to be wrapped with No.14 fabric or 5mm white air at 150mm pluck and encased in 20Mpa concrete with minimum 50mm cover.

S7 The contractor shall provide and employ any additional temporary bracing etc. necessary to adequately and safely hold steelwork in position during construction.

S8 Proprietary items (e.g. pultrus, bolts, etc.) shall be installed in accordance with manufacturers specifications U.N.O.

STEEL WORK

S9 Unless noted otherwise use:

Welding to AS 1554 by qualified welders

- 10mm thick gusset, fin and end plates, fully welded - M20 dia high strength bolts

- 6mm continuous fillet weld made with general purpose steel electrodes in accordance with AS 1554

S10 Chp all welds free of slag

S11 Do not grind under base plates until first level steelwork is plumb and fixed by welding or bolting

S12 Bolts to be grade 8.8 Metric Hexagon bolts.

S13 Bolts denote grade 8.8 high strength steel bolts AS 1522

- h.s. category

8.8S = 500 kgf/cm² 8.8T = 1450 kgf/cm² to AS1511.

S12 All cold formed steel shall be in accordance with AS 1536 for design and AS 1397/1594,1595 for material properties.

S13 All pultrus x girts shall be grade 450 zinc zinc coated in mm 200g/m² U.N.O.

NEW POOL CONSTRUCTION & POOL RENOVATIONS
 ABN 71 154 081 508 Lic. 243971C
 Email: michael@ryanpools.com.au
 P.O.Box 103 Dee Why NSW 2099

Phone: 9981 6665

81 6406

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P.O.Box 103 Dee Why NSW 2099

Rev No	Eng	Revision Description	Amended By	Approval Date
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GEOFF NINNES, FONG
& PARTNERS PTY. LTD.

ACN No. 001 849 289
Consulting Engineers
Civil Structural Stormwater

Project **NEW SHADE STRUCTURE**
KYLIE MASSI
14 LANCASTER CRESCENT, COLLAROY

FRAMING PLANS & DETAILS

Drawn	Checked	Drwg. No.
ABS	B.FONG	
	Approved	
Scale	BY MIF Aust	MRYAN1303-S
1:100, 20, 10	Date	
	APRIL 2013	

TIMBER

- 11 All timber construction to conform with AS 1684 and the NSW Timber Framing Manual in addition to the details shown.
- 12 Tie down ends of all members in accordance with AS1684.
- 13 Refer to the specification for preservatives and finishes to timber.
- 14 All bolts must be to hardwood (class 2 to AS1170 2 min.) or treated pine (preservative) equivalent.
- 15 All bolts, nuts & washers shall be hot dipped galvanized U.N.O. Reighten bolts 6 months after installation, all bolts to M16 grade 4.6 with hexagonal heads U.N.O. Washer shall be a min. diameter of 25 times the bolt diameter U.N.O.
- 16 All dimensions refer to finished sizes.

BRICKWORK NOTES

B1	Conform to AS3100. Do not build out propped slabs.
B2	Cutting and chipping of bricks will have prior approval from Engineer.
B3	Minimum compressive strength of bricks shall be 20MPa.
B4	Minimum mortar to be 1:1:6 U.N.O. Do not use bond breaking wetting agents.
B5	Reinforce all brickwalls on columns with no walls under with 2B6 rods every 400mm up from slab.
B6	Tie walls to steel or concrete structure with 20mm x 1.2mm heavy gyp. steel studs 300mm apart at every 4th course.
B7	Brick ties to walls to be at 600 centres horizontally and every 4th course vertically.
B8	Provide expansion joints at 8m maximum centres.
B9	All perches, except where required for weepholes are to be fully filled with mortar.

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NOTES ON EROSION & SEDIMENT CONTROL
 ALL EROSION AND SEDIMENTATION CONTROL MEASUREMENTS INCLUDING REVEGETATION AND STORAGE OF SOIL AND TOPSOIL TO BE IMPLEMENTED ACCORDING TO ALL THE REQUIREMENTS OF COUNCIL'S DCP REQUIREMENTS AND "MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION 2004" - LANDCOM
 ALL DOWN PIPES TO BE CONNECTED TO EXISTING DRAINAGE
 DP- INDICATES PROBABLE LOCATION OF DOWN PIPE

WASTE MANAGEMENT
 ALL MATERIALS REQUIRED TO BE CALCULATED PRIOR TO ORDERING MATERIALS ON-SITE WHEREVER POSSIBLE WASTE MATERIALS TO BE SENT TO A RECYCLING FACILITY

TERMITE MANAGEMENT
 GRANITE GUARD OR SIMILAR TERMITE PROTECTION SYSTEM TO BE USED WHICH SHALL COMPLY WITH AS3660.1-1995, "PROTECTION OF BUILDINGS FROM SUBTERRANEAN TERMITES".

9
 SEC. 10
 DP 11899

No.12
 SPLIT LEVEL
 BRICK RESIDENCE
 TILE ROOF

CARPORT

ROOF=55.08

Setback
 Abt 10.5

NO WINDOWS

BALCONY
 RL=58.95

RIDGE
 67.32

RIDGE
 63.93

EACR=61.43

BALC
 RL=66.88

SPLIT LEVEL
 BRICK RESIDENCE
 METAL ROOF

ROOF
 70.62

GLASS WINDOWS

H=69.43
 S=68.95

H=69.66
 S=66.95

H=70.24
 S=66.95

H=69.44
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Paling

PLANTER

Proposed
 3.6M x 4.9M
 Swimming pool

New Timber
 Deck

2M dia
 concrete
 SPA

Paving

LOT 8
 SEC. 10
 DP 11899

565.5m²

NOTE: SHADE STRUCTURE
 (PERGOLA)
 DELETED OFF
 DA202/0381

RL61.16

6M REAR SETBACK

900MM SIDE SETBACK

900MM SIDE SETBACK

900MM SIDE SETBACK

900MM SIDE SETBACK

900MM SIDE SETBACK

900MM SIDE SETBACK

900MM SIDE SETBACK

900MM SIDE SETBACK

900MM SIDE SETBACK

900MM SIDE SETBACK

71°16'00"

34.575

FLAGGING

NO CHANGES PROPOSED TO

No.14

EXISTING 3 STOREY

RENDERED RESIDENCE

METAL ROOF

UPPER LEVEL=61.88

MID FLOOR=58.80

GROUND FLOOR=56.02

ROOF=66.70

ROOF=66.70

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ROOF=66.70

NO CHANGES PROPOSED TO HOUSE. EXISTING TO REMAIN UNALTERED

CHANGES PROPOSED TO BACKYARD
 REFER TO DA-02 FOR FURTHER DETAILS

SITE PLAN
 SCALE 1:100

7
 SEC. 10
 DP 11899

CRESCENT
 (20.115 WIDE)

LANCASTER

B.M CUT IN TOP KERB
 RL=49.98 (AHD)

APPROX POSITION
 OF 1500 SEWER

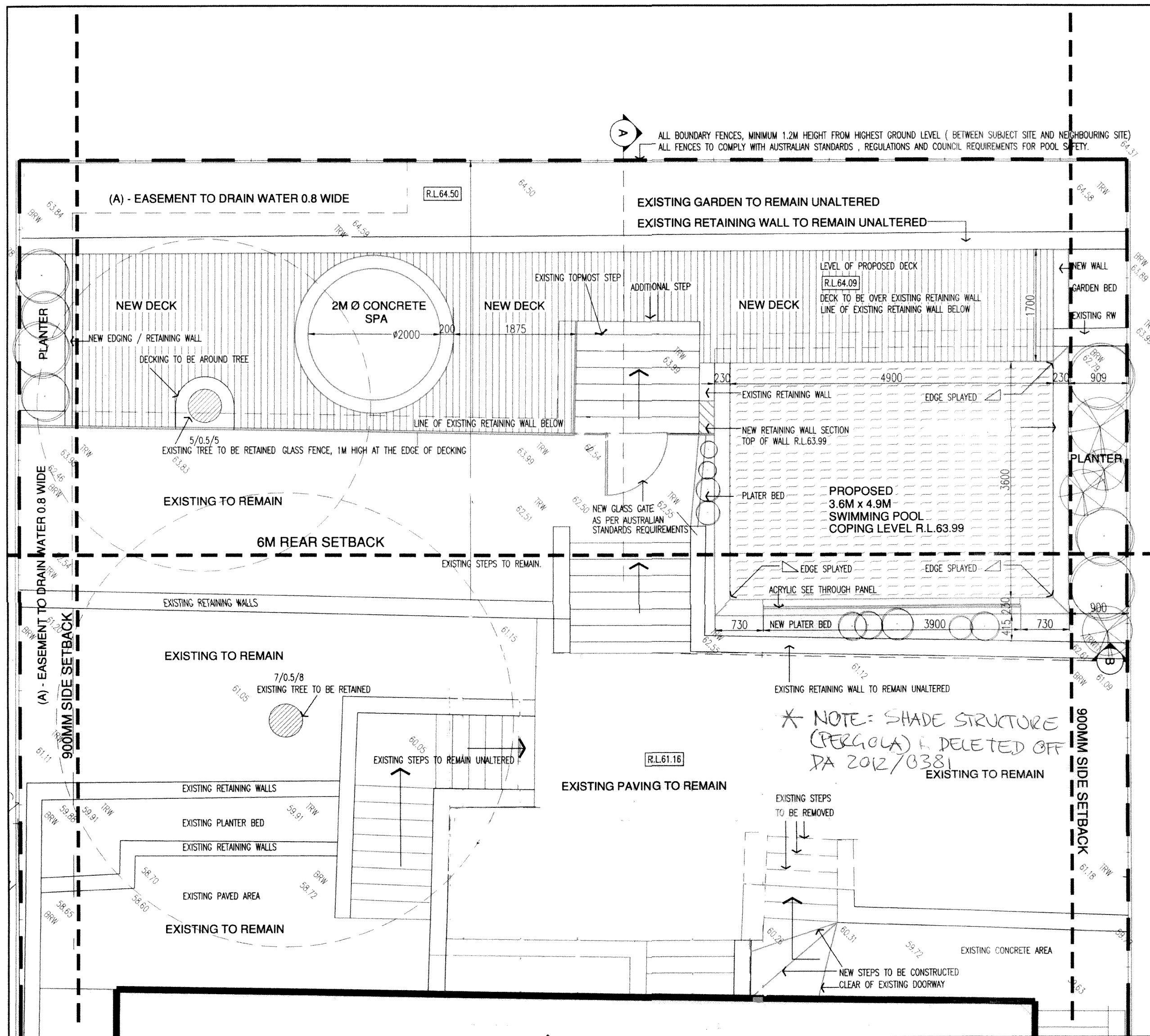
APPROX POSITION
 OF 1500 SEWER

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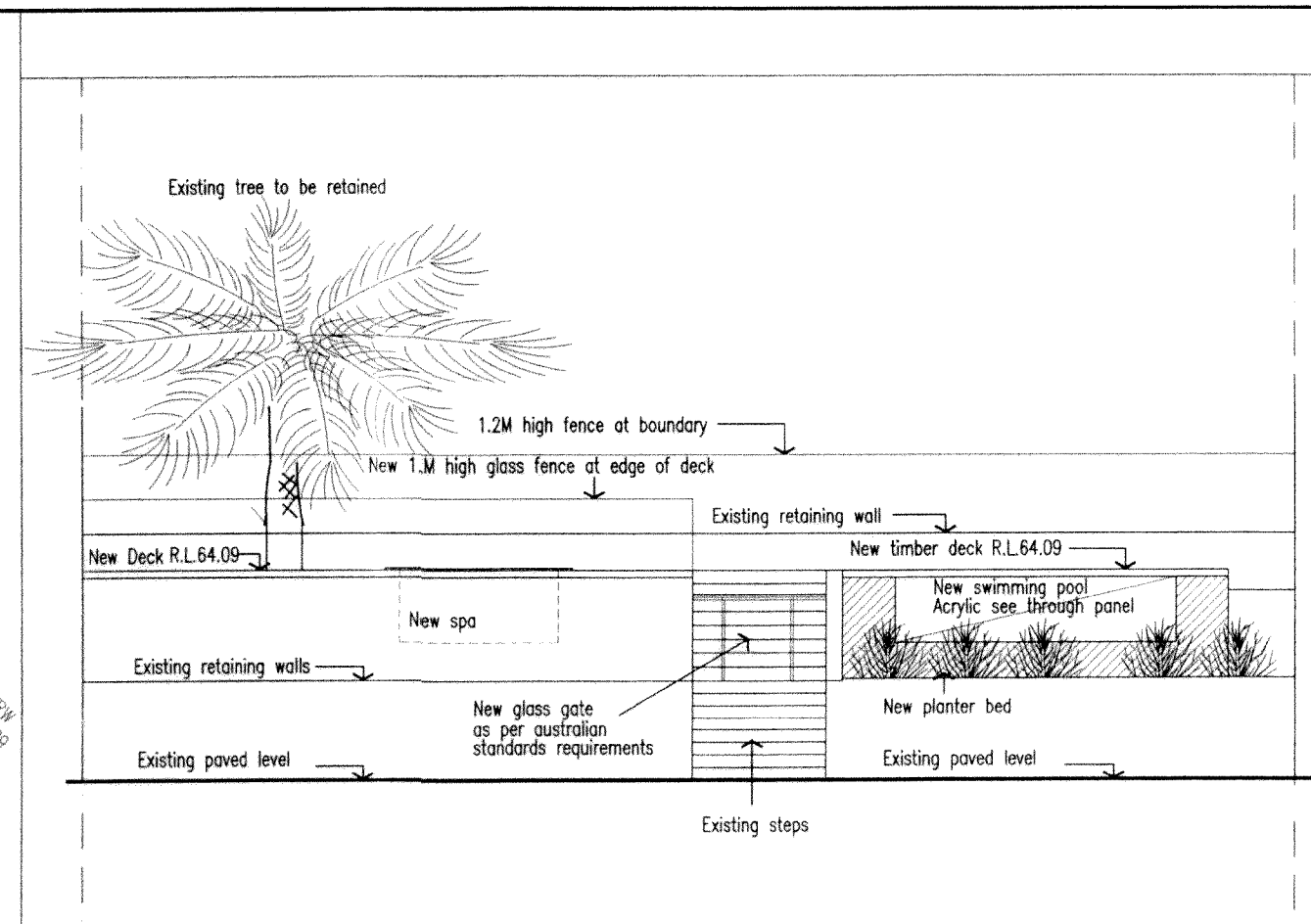
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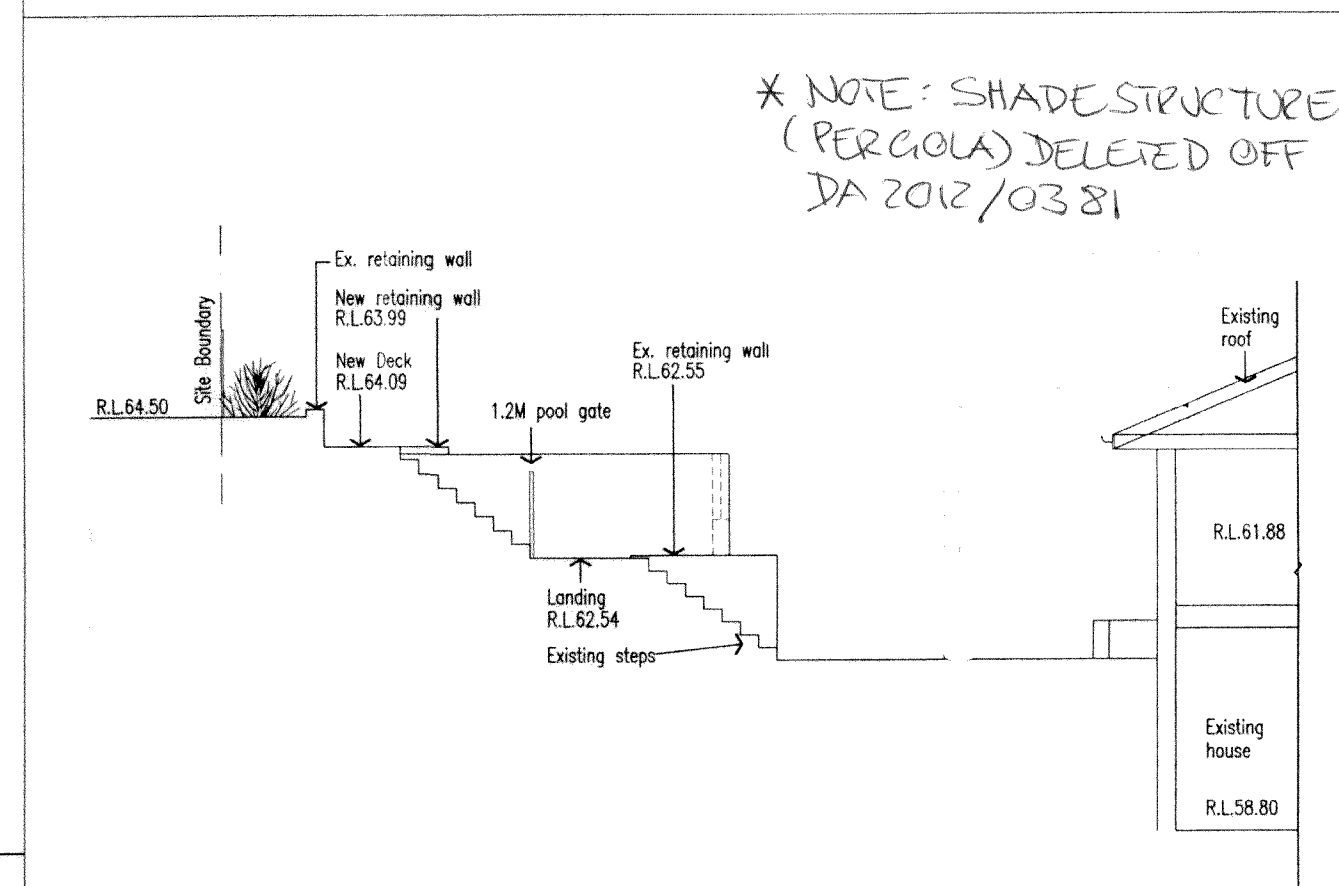
ARCHITECT	DESIGN CONSULTANT	NOTES	LEGEND	DOOR / WINDOW SCHEDULE	DRAWINGS DETAILS	PROJECT DETAILS	NORTH
VISTA DESIGN ARCHITECTS PTY. LTD. Farrah Madon Architect and Disability Access Consultant 0412 051 876 www.vistadesign.com.au farrah@vistadesign.com.au PO Box 353 Kingswood NSW 2147	NOVA LIVING PTY 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 Glass door		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.	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 SITE PLAN SHEET NO DA-01 PROJECT NO 1118 SCALE 1:100 or as shown. A2	



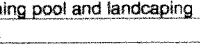
DETAILED PLAN
SCALE 1:50



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 6940 Member of Association of Consultants in Access, Australia. ACA 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 Glass door		<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><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></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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