

CLIENT :



HUNTER NEW ENGLAND
NSW HEALTH
LOOKOUT ROAD NEW LAMBTON
T: 02 4921 4966 F: 02 4921 4969

PROJECT MANAGER :



SPECIALIST LEADERS
AND MANAGERS
COFFEY PROJECTS

213 DARBY STREET COOKS HILL
T: 02 4924 8400 F: 02 4927 0993

MANILLA COMBINED MPS / HEALTH ONE HOSPITAL REDEVELOPMENT

COURT STREET, MANILLA, NSW, 2346

ATTACHMENT 8

RICE DAUBNEY

ANALYSING CREATING AND IMPLEMENTING ARCHITECTURE

LEVEL 1, 110 WALKER STREET, NORTH SYDNEY 2060 - T: 02 9956 2666 - F: 02 9959 3015 - www.ricedaubney.com.au
the rice daubney group (nsw) Pty Ltd - abn: 77 001 350 769 - rice daubney trading trust - abn: 56 880 304 993

COMMERCIAL
RETAIL
HEALTH + RESEARCH
DEFENCE
INTERIOR + WORKPLACE



GENERAL NOTES

- Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the Engineer.
- Strip all topsoil from the construction area. All stripped topsoil shall be disposed of off-site unless directed otherwise.
- Make smooth connection with all existing works.
- Compact subgrade under buildings and pavements to minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1. Compaction under buildings to extend 2m minimum beyond building footprint.
- All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority is to be carried out in accordance with the requirements of the relevant Authority. The Contractor shall obtain these requirements from the Authority. Where the requirements of the Authority are different to the drawings and specifications, the requirements of the Authority shall be applicable.
- For all temporary batters refer to geotechnical recommendations.

REFERENCE DRAWINGS

- These drawings have been based from, and to be read in conjunction with the following Consultants drawings. Any conflict to the drawings must be notified immediately to the Engineer.

Consultant	Dwg Title	Dwg No	Rev	Date

PIT SCHEDULE			
Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets – C99?			
Type	Description	Cover (Clear Opening)	Number
A	Kerb inlet pit 900 lintel	450 x 900 Class D galvanised mild steel grate hinged to frame	????????
B	Surface inlet	600 x 900 Class D galvanised mild steel grate hinged to frame	????????
C	Junction pit	600 x 900 Class D cast iron cover with concrete infill	????????
D	Existing pit to be demolished and removed		????????
E	Existing pit to remain		????????

STORMWATER DRAINAGE NOTES

- Stormwater Design Criteria :
 - Average recurrence interval – 1:100 years for roof drainage to first external pit 1:20 years for paved and landscaped areas
 - Rainfall intensities – Time of concentration: 6 minutes 1:100 years = mm/hr 1:20 years = mm/hr
 - Runoff coefficients – Roof areas: C_{RA} = Roads and paved areas: C_{RA} = Landscaped areas: C_{RA} =
- Pipes 300 dia and larger to be reinforced concrete Class "2" approved spigot and socket with rubber ring joints U.N.O.
- Pipes up to 300 dia shall be sewer grade uPVC with solvent welded joints
- Equivalent strength VCP or FCP pipes may be used subject to approval.
- Precast pits may be used external to the building subject to approval by Superintendent
- Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia.
- Where subsoil drains pass under floor slabs and vehicular pavements, unslotted uPVC sewer grade pipe is to be used.
- Grates and covers shall conform with AS 3996–2006, and AS 1428.1 for access requirements.
- Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O.
- Core is to be taken with levels of stormwater lines. Grades shown are not to be reduced without approval.
- All stormwater pipes to be 150 dia at 1.0% min fall U.N.O.
- Subsoil drains to be slotted flexible uPVC U.N.O.
- Adopt invert levels for pipe installation (grades shown are only nominal).

SITEWORKS NOTES

- All basecourse material to comply with RTA specification No 3051 and compacted to minimum 98% modified standard dry density in accordance with AS 1289 5.2.1.
- All trench backfill material shall be compacted to the same density as the adjacent material.
- All service trenches under vehicular pavements shall be backfilled with an approved select material and compacted to a minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1

SURVEY AND SERVICES INFORMATION

SURVEY

Origin of levels : A.H.D. AUSTRALIAN HEIGHT DATUM
Datum of levels : A.H.D. AUSTRALIAN HEIGHT DATUM
Coordinate system : ISG OR MGA OR LOCAL
Survey prepared by : CONTACT THE SURVEYOR
Setout Points : CONTACT THE SURVEYOR

Taylor Thomson Whitting does not guarantee that the survey information shown on these drawings is accurate and will accept no liability for any inaccuracies in the survey information provided to us from any cause whatsoever.

UNDERGROUND SERVICES – WARNING

The locations of underground services shown on Taylor Thomson Whittings drawings have been plotted from diagrams provided by service authorities. This information has been prepared solely for the authorities own use and may not necessarily be updated or accurate.

The position of services as recorded by the authority at the time of installation may not reflect changes in the physical environment subsequent to installation.

Taylor Thomson Whitting does not guarantee that the services information shown on these drawings shows more than the presence or absence of services, and will accept no liability for inaccuracies in the services information shown from any cause whatsoever.

The Contractor must confirm the exact location and extent of services prior to construction and notify any conflict with the drawings immediately to the Engineer/Superintendent.

The contractor is to get approval from the relevant state survey department, to remove any survey mark. This includes but is not limited to; State Survey Marks (SSM), Permanent Marks (PM), cadastral reference marks or any other survey mark which is to be removed or adjusted in any way.

Taylor Thomson Whitting plans do not indicate the presence of any survey mark. The contractor is to undertake their own search.

TENDER NOTES

- These drawings are preliminary drawings issued for tender as an indication of the extent of works only. They are not a complete construction set of drawings.
- To determine the full extent of work, these drawings shall be read in conjunction with the architectural drawings and other contract documents.
- Allow for all items shown on architectural and other drawings as not all items are shown on the structural/civil works drawings.
- Should any ambiguity, error, omissions, discrepancy, inconsistency or other fault exist or seem to exist in the documents, immediately notify in writing to the Superintendent.
- Notes shown on the drawings are for the final structure/civil works in place and do not allow for any wastage, rolling margins, over supply or fabrication requirements. etc.

EROSION AND SEDIMENT CONTROL NOTES

- All work shall be generally carried out in accordance with:
 - Local authority requirements.
 - EPA – Pollution control manual for urban stormwater,
 - Department of conservation and land management manual– "Urban Erosion & Sediment Control".
- Erosion and sediment control **drawings and notes** are provided for the whole of the works. Should the Contractor stage these works then the design may require to be modified. Variation to these details may require to be approved by the relevant authorities. The erosion and sediment control **plans** shall be implemented and adapted to meet the varying situations as work on site progresses.
- Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
- When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
- Minimise the area of site being disturbed at any one time.
- Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
- All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
- Control water from upstream of the site such that it does not enter the disturbed site.
- All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
- All vehicles leaving the site shall be cleaned and inspected before leaving.
- Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
- Clean out all erosion and sediment control devices after each storm event.

Sequence Of Works

- Prior to commencement of excavation the following soil management devices must be installed.
 - Construct silt fences below the site and across all potential runoff sites.
 - Construct temporary construction entry/exit and divert runoff to suitable control systems.
 - Construct measures to divert upstream flows into existing stormwater system.
 - Construct sedimentation traps/basin including outlet control and overflow.
 - Construct turf lined swales.
 - Provide sandbag sediment traps upstream of existing pits.
- Construct geotextile filter pit surround around all proposed pits as they are constructed.
- On completion of pavement provide sand bag kerb inlet sediment traps around pits.
- Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.

SITEWORKS LEGEND	
	Finished surface level
	Finished contour
	Kerb and gutter
	Kerb only
	Flush kerb
	Dish drain
	Mountable kerb
	Mountable integral kerb
	Mountable integral kerb with thickened edge
	Integral kerb with thickened edge
	Thickened edge
	Integral kerb
	Integral kerb with edge downturn
	Kerb and toe

	Stormwater pit, flow direction and line with invert level upstream Pipe size and class Pipe grade Flow (litres per second) Invert level downstream
	Grated drain
	Subsoil drainage line (100 dia)
	Flushing point
	Down pipe
	Rodding point
	Concrete encased stormwater line
	Stormwater line with pipe taper and flow direction Taper kerb to zero height over 500 mm Wheelstop
	Blockwork retaining wall
	Brickwork retaining wall
	Dowelled expansion joint
	Sawn joint
	Keyed construction joint
	Weakened plane joint
	Expansion joint
	Tied keyed joint
	Grass catch drain
	Overland flow path
	Guard Rail

SURVEY LEGEND	
	Surface level
	Contour
	Kerb line
	Batter
	Retaining wall
	Stormwater drainage line
	Telecommunications line
	Gas line
	Water main
	Sewer line
	Easement
	Fence
	Tree to be removed/be retained
	Boundary
	Sign
	Hydrant
	Manhole
	Gas
	Stop Valve
	Water
	Telstra
	Trap
	Gully
	Grate
	Sewer Manhole
	Energy Australia (Electricity)
	Electric Light Pole
	Traffic Light
	Traffic Light Lid
	Traffic Light Box
	Telephone Box
	Parking Meter
	Permanent Mark
	Bench Mark
	Borehole
	Test Pit
	Fuel Cock
	Flood Light
	Lamp Hole
	Bubbler
	Letter Box
	Flag Pole
	Flag Pole Box
	Bollard
	Seat
	Bin
	Kerb Outlet
	Monorail Pylon

	30N
	H
	MH
	G
	SV
	W
	TEL
	TRAP
	Gully
	Grate
	S
	E
	ELP
	TL
	TL
	TLB
	TLB
	PMW
	PM 1234
	BM 51.10
	BH 0
	TP No
	FC
	FL
	LH
	BUB
	LB
	FP
	FP BOX
	BOL
	SEAT
	BN
	KO
	Monorail Pylon

EROSION AND SEDIMENT CONTROL LEGEND	
	Batter
	Situation fence Stage 1
	Situation fence Stage 2
	Stormwater pit with Geotextile filter surround
	Hay bale barriers
	Sandbag sediment trap
	Catch drain Stage 1
	Catch drain Stage 2
	Natural flow path
	Temporary site entry/exit

PAVEMENT LEGEND	
	Elevated Walkway
	Landscape to Landscape architects detail
	30mm AC10 125mm Compacted fine crushed rock (D0820) 250mm Compacted fine crushed rock (D0840)
	180mm Thickness concrete (f'c=32MPa) with SL92 fabric 100mm Compacted fine crushed rock (D0820)

NOTE

Asphaltic concrete shall conform to AS2150 and the specification. Pavement thicknesses shown are subject to change during detailed design.

JOINTING NOTES

Vehicular Pavement Jointing

- All vehicular pavements to be jointed as shown on drawings.
- Keyed construction joints should generally be located at a maximum of 6m centres.
- Sawn joints should generally be located at a maximum of 6m centres or 1.5 x the spacing of keyed joints, where key joint spacing is less than 4m, with dowelled expansion joints at maximum of 30m centres.
- Provide 10mm wide full depth expansion joints between buildings and all concrete or unit pavers.
- Vehicular pavement jointing as follows.
- The timing of the saw cut is to be confirmed by the contractor on site. Site conditions will determine how many hours after the concrete pour before the saw cuts are commenced. Refer to the specification for weather conditions and temperatures required.

Pedestrian Footpath Jointing	
	Expansion joints are to be located where possible at tangent points of curves and elsewhere at max 6.0m centres.
	Weakened plane joints are to be located at a max 1.5 x width of the pavement.
	Where possible joints should be located to match kerbing and / or adjacent pavement joints.
	All pedestrian footpath jointings as follows (uno).

	Expansion joints are to be located where possible at tangent points of curves and elsewhere at max 6.0m centres.
--	--

	Weakened plane joints are to be located at a max 1.5 x width of the pavement.
--	---

	Where possible joints should be located to match kerbing and / or adjacent pavement joints.
--	---

	All pedestrian footpath jointings as follows (uno).
--	---

P3	ISSUE FOR T02	AL	JBG	29.04.09
P2	RE-ISSUE FOR PART 3A	AL	JBG	27.03.09
P1	ISSUE FOR PART 3A	AL	JBG	04.03.09

Rev	Description	Eng	Draft	Date

Project

MANILLA COMBINED MPS HEALTH ONE COURT STREET, MANILLA

Sheet Subject

NOTES & LEGENDS SHEET

Architect

RICE DAUBNEY

110 WALKER STREET

NORTH SYDNEY

T: 02 9956 2666 F: 02 9959 3015

TaylorThomsonWhitting

Consulting Engineers

48 Chandos Street, St Leonards NSW 2065

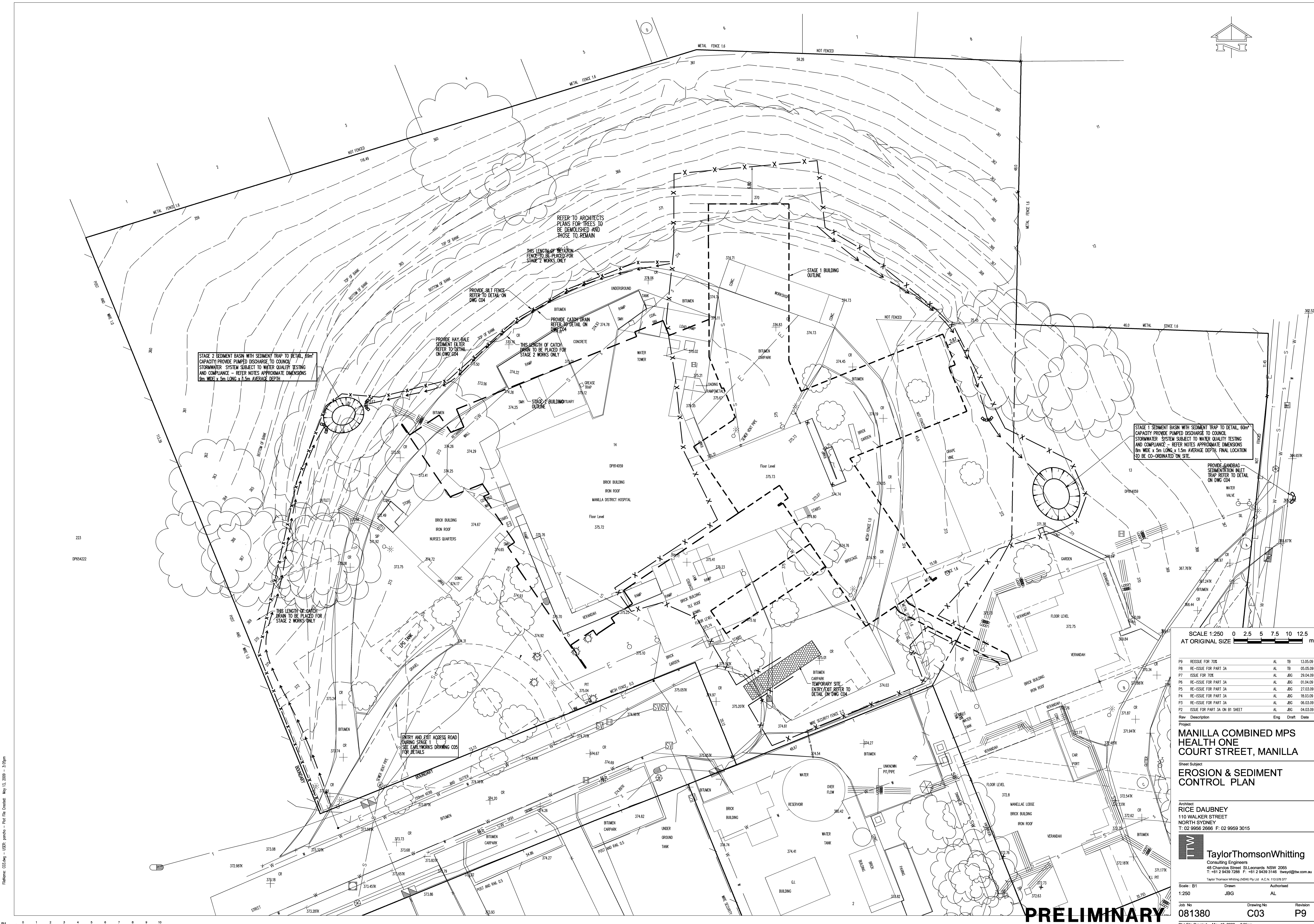
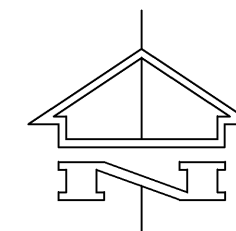
T: +61 2 9439 7288 F: +61 2 9439 3146 ttwysd@tthw.com.au

Taylor Thomson Whitting (NSW) Pty Ltd A.C.N. 113 576 377

Scale : B1	Drawn	Authorised
	JBG	AL

Job No	Drawing No	Revision
081380	C01	P3
Plot File Created: May 11, 2009 - 1:31pm		

PRELIMINARY



SCALE 1:250 0 2.5 5 7.5 10 12.5
AT ORIGINAL SIZE m

P9	RE-ISSUE FOR 70%	AL	TB	13.05.09
P8	RE-ISSUE FOR PART 3A	AL	TB	05.05.09
P7	ISSUE FOR 70%	AL	JBG	29.04.09
P6	RE-ISSUE FOR PART 3A	AL	JBG	01.04.09
P5	RE-ISSUE FOR PART 3A	AL	JBG	27.03.09
P4	RE-ISSUE FOR PART 3A	AL	JBG	16.03.09
P3	RE-ISSUE FOR PART 3A	AL	JBG	06.03.09
P2	ISSUE FOR PART 3A ON B1 SHEET	AL	JBG	04.03.09

Project
**MANILLA COMBINED MPS
HEALTH ONE
COURT STREET, MANILLA**

Sheet Subject
**EROSION & SEDIMENT
CONTROL PLAN**

Architect
RICE DAUBNEY
110 WALKER STREET
NORTH SYDNEY
T: 02 9956 2666 F: 02 9959 3015

TaylorThomsonWhitting
Consulting Engineers
48 Chandos Street St Leonards NSW 2065
T: +61 2 9439 7288 F: +61 2 9439 3146 ttw@tdtw.com.au
TaylorThomsonWhitting (NSW) Pty Ltd A.C.N. 115 578 377

Scale: B1
1:250

Drawn
JBG

Authorised
AL

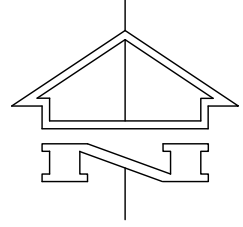
Job No
081380

Drawing No
C03

Revision
P9

Plot File Created: May 13, 2009 - 3:05pm

PRELIMINARY



SCALE 1:250 0 2.5 5 7.5 10 12.5
AT ORIGINAL SIZE

Rev	Description	Eng	Draft	Date
P1	ISSUED FOR PART 3A	AL	PM	12.06.09
P2	REISSUED FOR PART 3A	AL	MK	18.06.09

Project
**MANILLA COMBINED MPS
HEALTH ONE
COURT STREET, MANILLA**

Sheet Subject
**STAGE 1
SITEWORKS AND
STORMWATER PLAN**

Architect
RICE DAUBNEY
110 WALKER STREET
NORTH SYDNEY
T: 02 9956 2666 F: 02 9959 3015

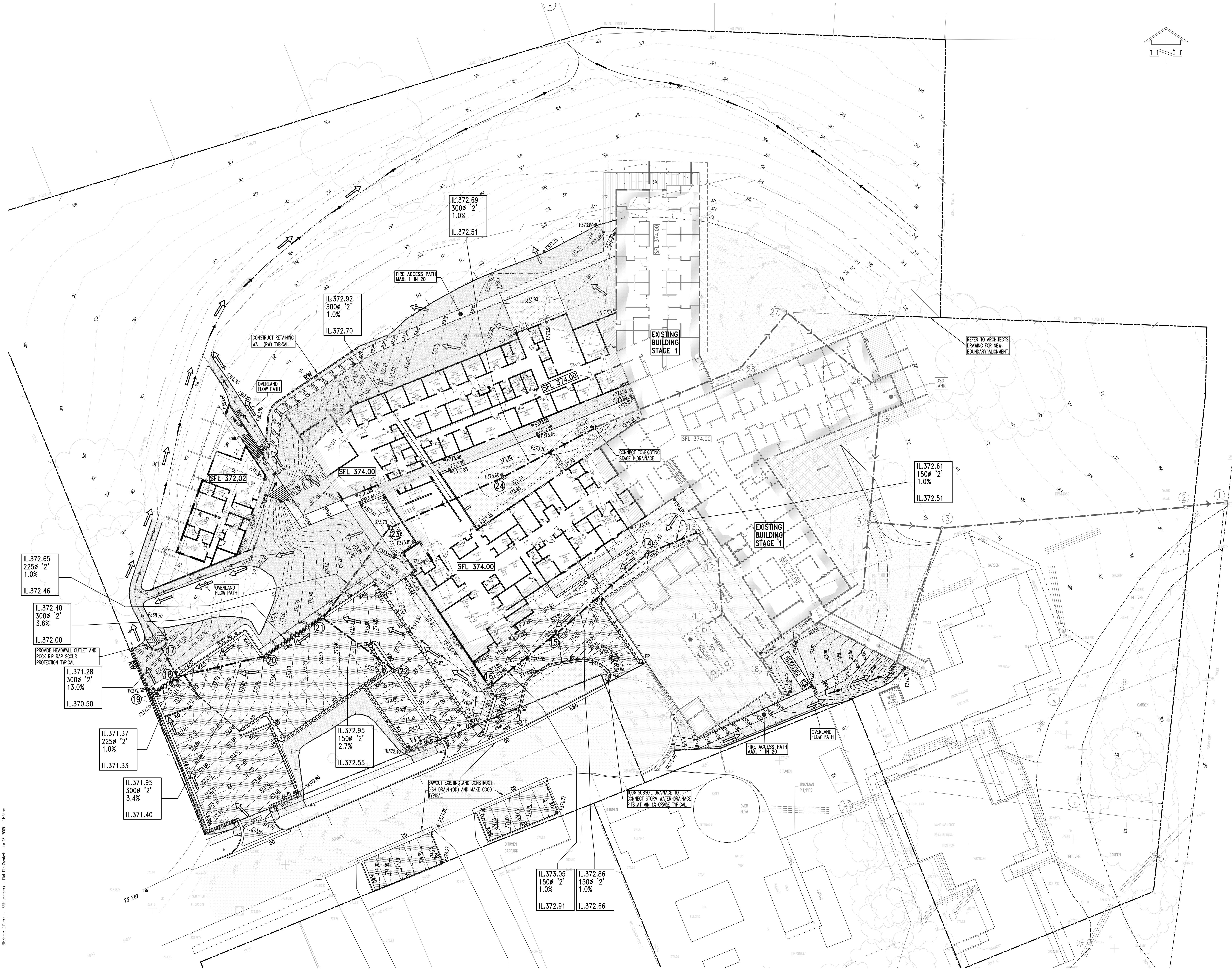
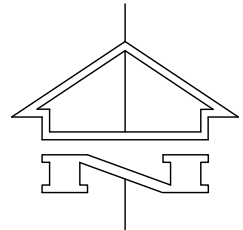
TaylorThomsonWhitting
Consulting Engineers
48 Chandos Street, St Leonards NSW 2055
T: +61 2 9439 7288 F: +61 2 9439 3146 ttwyds@ttw.com.au
Taylor Thomson Whitting (NSW) Pty Ltd A.C.N. 113 578 377

Scale : B1	Drawn	Authorised
1:250	PM	AL

Job No	Drawing No	Revision
081380	C10	P2

Plot File Created: Jun 18, 2009 - 11:58am

PRELIMINARY



SCALE 1:250 0 2.5 5 7.5 10 12.5
AT ORIGINAL SIZE m

P2	REVISED FOR PART 3A	AL	MK	18.06.09
P1	ISSUED FOR PART 3A	AL	PM	12.06.09
Rev	Description	Eng	Draft	Date

Project
**MANILLA COMBINED MPS
HEALTH ONE
COURT STREET, MANILLA**

Sheet Subject
**STAGE 2
SITEWORKS AND
STORMWATER PLAN**

Authorised
RICE DAUBNEY
110 WALKER STREET
NORTH SYDNEY
T: 02 9956 2666 F: 02 9959 3015

TaylorThomsonWhitting
Consulting Engineers
48 Chandos Street, St Leonards NSW 2055
T: +61 2 9439 7288 F: +61 2 9439 3146 ttw@ttw.com.au
Taylor Thomson Whitting (NSW) Pty Ltd A.C.N. 113 578 377

Scale : B1	Drawn	Authorised
1:250	PM	AL

Job No	Drawing No	Revision
081380	C11	P2

Plot File Created: Jun 18, 2009 - 11:54am

PRELIMINARY