GENERAL NOTES

1. Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the Engineer .
2. Strip all topsoil from the construction area. All stripped topsoil shall be disposed of off–site unless directed otherwise.
3. Make smooth connection with all existing works.
4. 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.
5. 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.
6. For all temporary batters refer to geotechnical recommendations.

REFERENCE DRAWINGS

1. 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
Lockley Land	Survey Plan	30744	–	15.11.07
COX	Ground Plan	PA–201–2D	06	28.01.09
	Ground Plan	PA–201–2A	06	28.01.09

PIT SCHEDULE

Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets – **SKC102**

Type	Description	Cover (Clear Opening)	Number
A	Surface inlet pit	600 x 900 Class D galvanised mild steel grate hinged to frame	5,9,12,17, 18,19,20, 33,34,35, 36,40
		300 x 300 Class C galvanised mild steel grate hinged to frame	41,42,43, 44,45
	Junction pit	900 x 900 Class D cast iron cover with concrete infill	2,4,22,23, 28,29,30, 31
B	OSD & Rainwater tank Access pits	900 x 900 Lockable Class D galvanised mild steel grate hinged to frame	6,7,8,10,11, 12,14,15,16, 25,26,27
C	Existing pit	Existing pit to be reconstructed	1,21,32
D	Gross pollutant traps (GPT)	Rocla's CDS units #PL0708	3,24

STORMWATER DRAINAGE NOTES

1 Stormwater Design Criteria :
  - (A) Average recurrence interval –
    - 1:100 years for roof drainage to first external pit
    - 1:20 years for paved and landscaped areas
  - (B) Rainfall intensities –
    - Time of concentration: 6 minutes
    - 1:100 years = 254 mm/hr
    - 1:20 years = 200 mm/hr
  - (C) Runoff coefficients –
    - Roof areas: C_{100} = 1.0
    - Roads and paved areas: C_{20} = 0.95
    - Landscaped areas: C_{20} = 0.64

2. Pipes 300 dia and larger to be reinforced concrete Class "2" approved spigot and socket with rubber ring joints U.N.O.
3. Pipes up to 300 dia shall be sewer grade uPVC with solvent welded joints.
4. Equivalent strength VCP or FCP pipes may be used subject to approval.
5. Precast pits may be used external to the building subject to approval by Superintendent
6. Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia.
7. Where subsoil drains pass under floor slabs and vehicular pavements, unslotted uPVC sewer grade pipe is to be used.
8. Grates and covers shall conform with AS 3996–2006, and AS 1428.1 for access requirements.
9. Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O.
10. Care is to be taken with levels of stormwater lines. Grades shown are not to be reduced without approval.
11. All stormwater pipes to be 150 dia at 1.0% min fall U.N.O.
12. Subsoil drains to be slotted flexible uPVC U.N.O.
13. Adopt invert levels for pipe installation (grades shown are only nominal).

SITEWORKS NOTES

1. 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.
2. All trench backfill material shall be compacted to the same density as the adjacent material.
3. 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

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SURVEY AND SERVICES INFORMATION

SURVEY

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

SITEWORKS LEGEND

● F22.20	Finished surface level
—··— F22.00 —··—	Finished contour
K&G	Kerb and gutter
KO	Kerb only
FK	Flush kerb
DD	Dish drain
MK	Mountable kerb
MIK	Mountable integral kerb
MIK+TE	Mountable integral kerb with thickened edge
IK+TE	Integral kerb with thickened edge
TE	Thickened edge
IK	Integral kerb
IK+ED	Integral kerb with edge downturn
K&T	Kerb and toe
→·—▤—·→	Stormwater pit, flow direction and line with
IL10.00 600 ø '2' 1.25% Q=345 L/s IL9.65	Invert level upstream Pipe size and class Pipe grade Flow (Litres per second) Invert level downstream
GD	Grated drain
– – – – – –	Subsoil drainage line (100 dia)
—··—··—	Suspended pipe
– – – – –o FP	Flushing point
—·—o DP	Down pipe
▨	Concrete encased stormwater line
→·—·→	Stormwater line with pipe taper and flow direction
❋	Taper kerb to zero height over 500 mm
▬	Wheelstop
RW#	Blockwork retaining wall
RW#	Brickwork retaining wall
DEJ	Dowelled expansion joint
SJ	Sawn joint
KJ	Keyed construction joint
WPJ	Weakened plane joint
EJ	Expansion joint
TKJ	Tied keyed joint
— ← ←	Grass catch drain
< - <--- <--- ----	Overland flow path
——┐——	Guard Rail

SURVEY LEGEND

+18.48	Surface level
19	Contour
— — — —	Kerb line
┬┬┬┬	Batter
▭	Retaining wall
SW	Stormwater drainage line
T	Telecommunications line
G	Gas line
W	Water main
S	Sewer line
EASEMENT FOR ____(__m WIDE)	Easement
/	Fence
⊗ ○	Tree to be removed/be retained
▬	Boundary
○ SGN	Sign
□ H	Hydrant
MH	Manhole
□ G	Gas
□ SV	Stop Valve
□ W	Water
□ TEL	Telstra
□ TRAP	Trap
▤	Gully
▤	Grate
○ S	Sewer Manhole
E	Energy Australia (Electricity)
○ ELP	Electric Light Pole
○ TL	Traffic Light
□ TLL	Traffic Light Lid
□ TLB	Traffic Light Box
TB	Telephone Box
○ PKM	Parking Meter
PM 1234	Permanent Mark
BM 51.10	Bench Mark
BH 0	Borehole
TP No	Test Pit
○ FC	Fuel Cock
○ FL	Flood Light
○ LH	Lamp Hole
○ BUB	Bubbler
LB	Letter Box
□ FP	Flag Pole
□ FP BOX	Flag Pole Box
○ BOL	Bollard
□ SEAT	Seat
○ BIN	Bin
○ KO	Kerb Outlet
⯃	Monorail Pylon

Rev	Description	Eng	Draft	Date
P3	ISSUE FOR APPROVAL	EN	NB		29.01.08
P2	ISSUE FOR APPROVAL	JW	NB		16.12.08
P1	ISSUE FOR COMMENT		NB	TB	02.12.08

Project

PRINCE OF WALES
MEDICAL RESEARCH
INSTITUTE

Sheet Subject

NOTES & LEGEND SHEET

Architect

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Scale : A1 Drawn Authorised
1:1000

Job No: 061652
Drawing No: SKC100
Revision: P3

Plot File Created: Jan 29, 2009 - 4:40pm

PRELIMINARY

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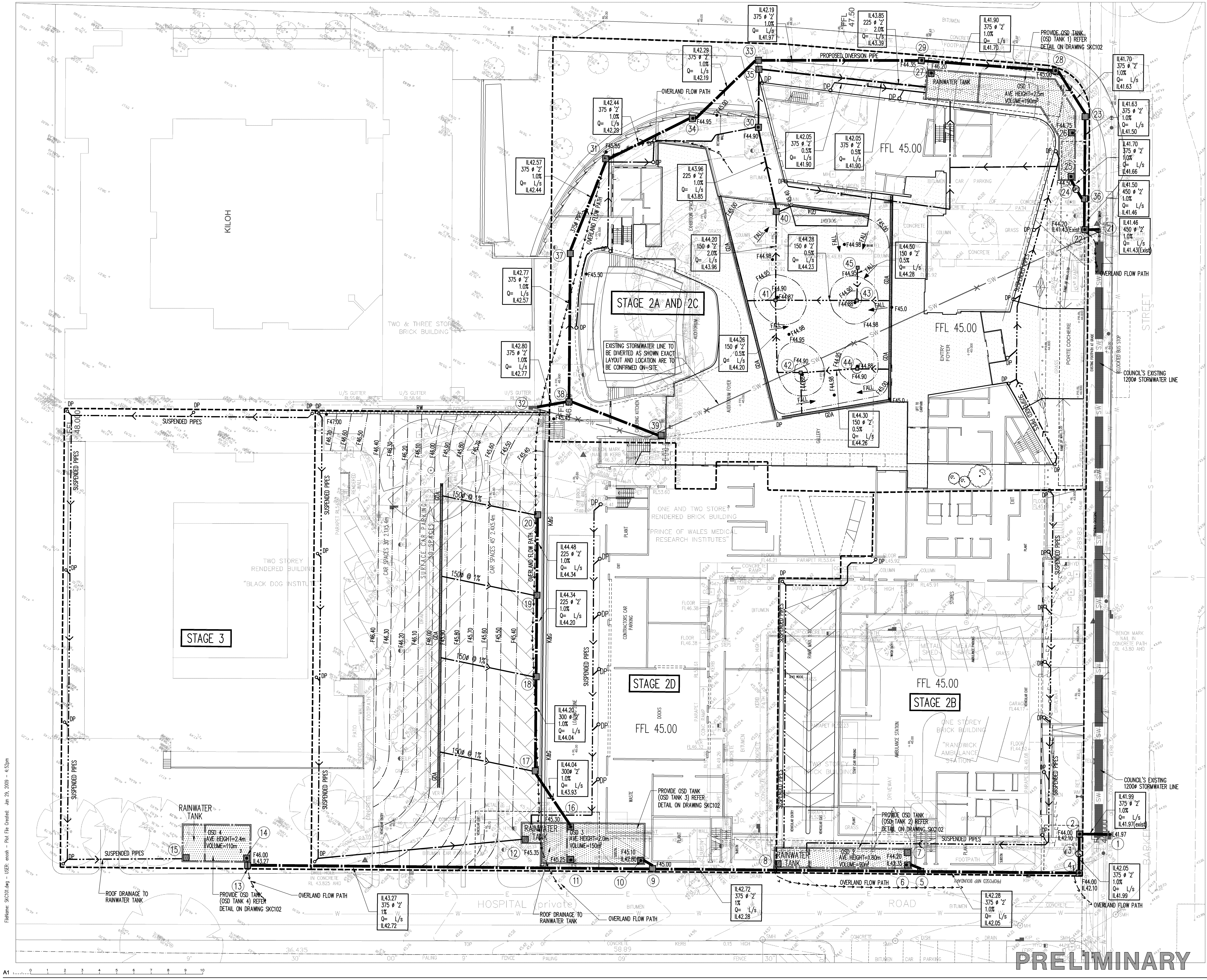

PRELIMINARY

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Rev	Description		Eng	Draft	Date
P3	ISSUE FOR COMMENT		NB	EN	29.01.09
P2	ISSUE FOR APPROVAL	JW	NB		16.12.08
P1	ISSUE FOR COMMENT		NB	TB	02.12.08

Project

PRINCE OF WALES
MEDICAL RESEARCH
INSTITUTE

Sheet Subject

OVERALL SITEWORKS PLAN

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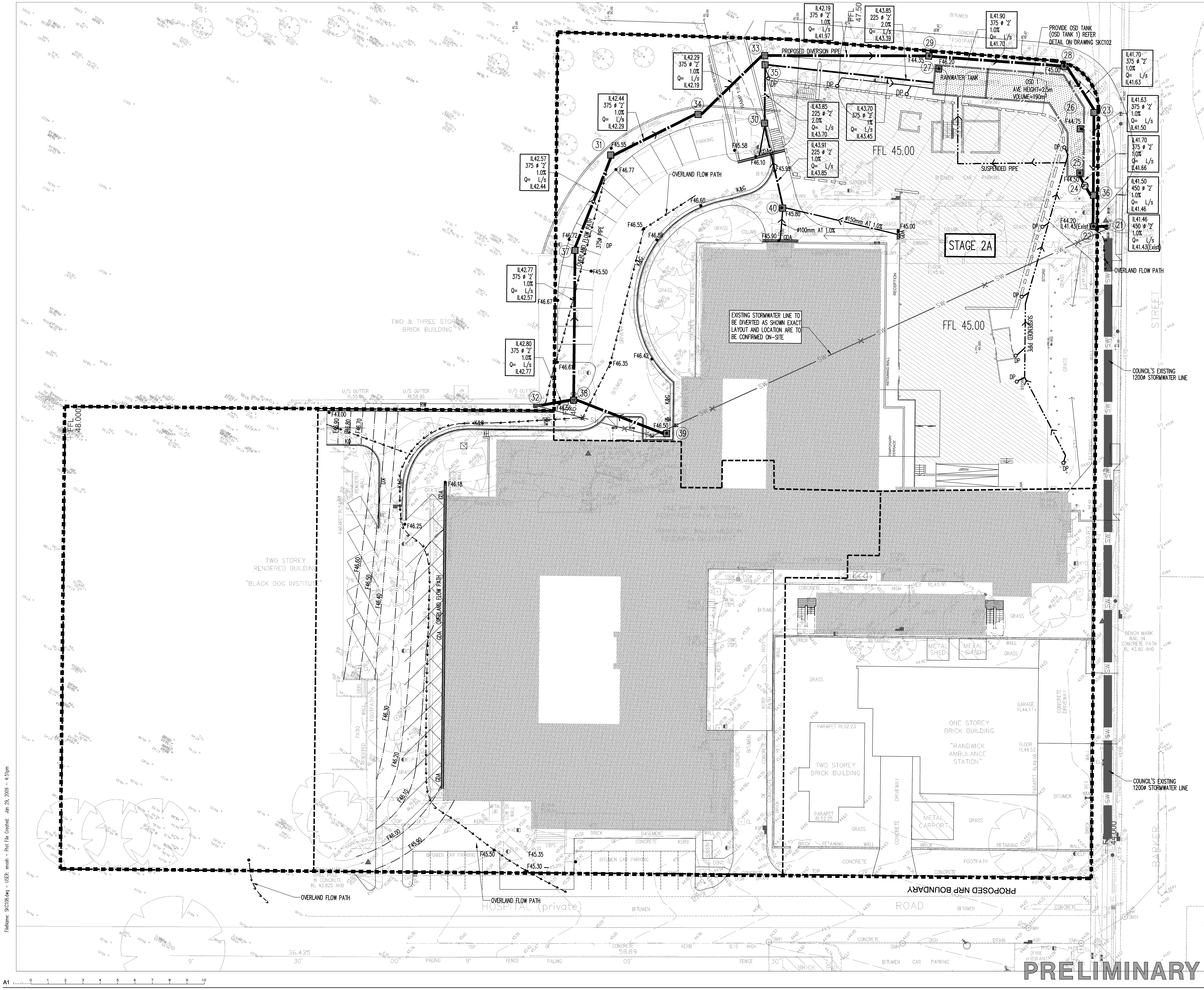
Authorised

Job No 061652
Drawing No SKC101
Revision P3

Plot File Created: Jan 29, 2009 - 4:52pm



Rev	Description	Eng	Draft	Date
P1	PRELIMINARY ISSUE	NB	JG	29.01.09

Project

PRINCE OF WALES
MEDICAL RESEARCH
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Sheet Subject

STAGE 2A STORMWATER
DIVERSION & SITEWORKS
PLAN

Architect

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Scale : A1 1:250
Drawn
Authorised

Job No 061652
Drawing No SKC108
Revision P1

PRELIMINARY

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