APPENDIX E

Stormwater Code & SMP (including Erosion Hazard Assessment)

ABN 72 002 765 795

Erosion Hazard Assessment

What is an Erosion Hazard Assessment?

Generally, the most significant soil erosion and sediment pollution 'risk' applies during the construction stage of a development. In some cases however, the development may present a long term risk after completion.

The Erosion Hazard Assessment determines whether that risk is 'low' or 'high'. The assessment uses a point scoring system based on Council's requirements for stormwater management and Erosion and Sediment Control (ESC).

Explaining the Erosion Hazard Assessment form

Complete the table on the back of this form before you complete the certification below.

- Site condition – lists varying erosion-related factors to be assessed.
- Points – a range of values representing the significance of the erosion-related factors for each site condition. Note that the higher the points value, the more significant its potential erosion and/or pollution hazard.
- Score – your assessment. Allocate the appropriate point score for each site condition which best matches your development proposal. *(Example: for the first site condition, you would write score 2 points if the average slope of disturbance area was 6%.)*
- Trigger score – some site conditions have been allocated a trigger score. If your score for any of these site conditions is equal to or greater than the trigger score, the development proposal will usually be considered 'high risk'.
- Certification – only a person with suitable qualifications and experience in erosion and sediment control can certify that this form has been completed accurately and to Council's requirements. Refer to Council's *Applicants Guide to Managing Erosion and Sediment Control in the Development Application/Assessment Process* for the definition of a 'suitably qualified and experienced professional in *erosion and sediment control*'.
- Additional information – refer to the Erosion Hazard Assessment Technical Notes for more information about completing this assessment. Where you see a number in brackets like this [-] in the assessment table the number is referenced in the technical notes.

A 'low' risk score

Generally, if the *Erosion Hazard Assessment* produces a Total Score of **less than 17** and no individual score is equal to or greater than its Trigger Score, the development proposal is considered to be 'low risk'.

A 'high' risk score

If the *Erosion Hazard Assessment* produces a Total Score of **17 or greater** or any individual score is equal to or greater than its Trigger Score, the development proposal is considered to be 'high risk'. Applicants must lodge sufficient supporting information to demonstrate that the performance criteria of the relevant Code/s in the *City Plan 2000* can be achieved.

Certification – *complete Assessment Table on back of this form first*

Is Total Score equal to or greater than 17?

No ☐ Yes ☑ Refer to Council's *Applicants Guide to Managing Erosion and Sediment Control in the Development Application/Assessment Process*

Did you answer 'yes' to any Trigger Score question?

No ☐ Yes ☑ Refer to Council's *Applicants Guide to Managing Erosion and Sediment Control in the Development Application/Assessment Process*

Application number

Site address

28 – 42 Ferry Road
West End.

Prepared by *Print name*

T Woodward

Certified by *Print name*

T. Woodward.

Business name

Clifton Woodward.

Certifier's signature and date

29/09/05

[redacted]

CC2003 (6/2001)
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BCC.059.1885

Assessment Table

Site Condition	Points	Score	Trigger Score	BCC Use Only
[1] AVERAGE SLOPE OF DISTURBANCE AREA				
• less than 3% (3% = 33H:1V)	0			
• more than 3% but less than 5% (5% = 20H:1V)	1		Score equal to or greater than 4?	
• more than 5% but less than 10% (10% = 10H:1V)	2			
• more than 10% but less than 15% (15% = 6.7H:1V)	4	1	No ☑ Yes ☐	
• more than 15%	6			
[2] SOIL CLASSIFICATION GROUP (AS1726)				
• GW, GP, GM, GC	0			
• SW, SP, SM, SC, Pt	1			
• MH, CH, OH	2	3		
• ML, CL, OL, if imported fill will be used, or if soils untested	3			
[3] EMERSON (DISPERSION) CLASS NUMBER				
• Class 4, 6, 7, or 8	0		Score equal to or greater than 4?	
• Class 5	2			
• Class 3	4	6	No ☐ Yes ☑	
• Class 1 or 2	6			
[4] DURATION OF SOIL DISTURBANCE				
• less than 1 month	0		Score equal to or greater than 4?	
• more than 1 month but less than 4 months	2			
• more than 4 months but less than 6 months	4	4	No ☐ Yes ☑	
• more than 6 months	6			
[5] AREA OF DISTURBANCE				
• less than 1000 m²	0			
• more than 1000 m² but less than 5000 m²	1		Score equal to or greater than 4?	
• more than 5000 m² but less than 1 ha	2			
• more than 1 ha but less than 4 ha	4	1	No ☑ Yes ☐	
• more than 4 ha	6			
[6] WATERWAY DISTURBANCE			Score equal to or greater than 2?	
• No disturbance to watercourse, open drain or channel	0			
• Involves disturbance of watercourse, open drain or channel	2	0	No ☑ Yes ☐	
[7] REHABILITATION METHOD				
Percentage of area (relative to total disturbance) revegetated by seeding without mulching (ie. worst case revegetation method)				
• less than 1%	0			
• more than 1% but less than 5%	1			
• more than 5% but less than 10%	2	0		
• more than 10%	4			
[8] RECEIVING WATERS				
• Open water body (eg: creek, river, bay)	0			
• Enclosed water body (eg. lake, boat harbour)	2	0		
[9] SUBSOIL EXPOSURE				
• No subsoil exposure except for service trenches	0			
• Subsoils are likely to be exposed	2	2		
[10] EXTERNAL CATCHMENTS				
• No external catchment	0			
• External catchment diverted around the soil disturbance	1			
• External catchment not diverted around the soil disturbance	2	1		
[11] ROAD CONSTRUCTION				
• No road construction	0			
• Involves road construction works	2	0		
[12] pH OF SOILS TO BE REVEGETATED				
• less than pH 5	1			
• more than pH5 but less than pH 9	0			
• more than pH9, or if pH testing not done at this stage	1	1		
[13] Total Score =		19		

Stormwater Management Code

PURPOSE

The purpose of this code is to:

- integrate planning, design and implementation of the two distinct components of stormwater management, i.e. water quantity and water quality
- prevent or minimise adverse social and environmental impacts on the City's waterways, overland flowpaths, constructed drainage network, Brisbane River and Moreton Bay from stormwater run-off originating from or passing through development
- achieve acceptable levels of stormwater run-off quality and quantity by applying water sensitive urban design principles in development proposals to maintain and/or enhance the environmental values of the City's waterways and catchments
- ensure that stormwater run-off originating from development is of such quality that environmental values of receiving waters are protected or enhanced
- provide an efficient and cost effective stormwater run-off management system, i.e. a drainage network and detention/retention storage that adequately protects people and the natural and built environments from an unacceptable level of flooding risk

PERFORMANCE CRITERIA AND ACCEPTABLE SOLUTIONS

GENERAL

Performance Criteria		Acceptable Solutions		Proposal
P1	The planning of the stormwater management system must provide for the integrated management of stormwater in order to: • minimise flooding • protect and enhance environmental values of receiving waters • maximise the use of water sensitive urban design principles • maximise the use of natural waterway corridors and natural channel design principles • maximise community benefit • minimise public safety risk	**A1.1**	The proposal complies with the **Subdivision and Development Guidelines**	**All roofwater and stormwater from hard surface areas shall discharge to legal point of discharge – refer to attached sketch Hydraulic Services Drawing prepared for this site. The design incorporates pollution control devices.**
		A1.2	A site Based Stormwater Management Plan (SBSMP) is prepared for all major and minor stormwater management measures. The SBSMP must provide for the following where applicable: • an underground and/or open drain/overland flowpath network maximising the use of natural channel design and water sensitive urban design principles	

Performance Criteria	Acceptable Solutions	Proposal
	• make provision for detention/retention storage basins • an Erosion and Sediment Control (ESC) Program where required by Council's **Erosion and Sediment Control Standard** • retention of natural waterway corridors • public safety factors and risk management measures • an acceptable level of flood immunity **A1.3** The proposal complies with any Stormwater Management Plan (SMP), Local Stormwater Management Plan (LSMP), or Waterways Management Plan (WMP) prepared by Council.	**No provision for on site detention/retention storage required.** **An erosion and sediment control complies with guidelines, best practices. Refer sketch plan.** **Overland flow path shall be maintained through the court yard.** **Public safety will not be affected by the proposal set in place with this redevelopment.**

FLOODING

Performance Criteria		Acceptable Solutions		Proposal
P1	The proposed stormwater management system or site works must not adversely impact on flooding or drainage of properties that are upstream, downstream or adjacent to the subject site	**A1**	The proposal meets the requirements of Council's **Subdivision and Development Guidelines** and does not result in an increase in flood level or flood duration on upstream, downstream or adjacent properties *Note:* *Compliance with this acceptable solution can be demonstrated by the submission of a hydraulic and hydrology report (as part of a SBSMP) identifying potential flooding impacts on upstream, downstream or adjacent properties*	The site complies with acceptable flood levels for this site.

Performance Criteria		Acceptable Solutions		Proposal
P2	The drainage network must provide capacity to safely convey stormwater run-off resulting from relevant design storm events taking into account increased run-off from roof drainage	**A2.1**	The design demonstrates that a drainage network will be provided that will comply with Council's **Subdivision and Development Guidelines** *Note:* *Compliance with this acceptable solution can be demonstrated by identifying the conceptual drainage requirements for the proposal in a SBSMP*	The drainage network complies with the Subdivision and Development Guidelines. Refer to Hydraulic Services sketch design.
		A2.2	The design allows sufficient area to provide for a drainage network that will comply with Council's **Subdivision and Development Guidelines** *Note:* *Compliance with this acceptable solution can be demonstrated by the submission of a hydraulic and hydrology report (as part of a SBSMP) identifying the area required to accommodate the drainage network*	
P3	Development design must reduce property damage and, where applicable, ensure public safety by ensuring that the development levels are set above the relevant design flood level or storm surge level	**A3.1**	All development is located above minimum flood immunity levels in accordance with Council's **Subdivision and Development Guidelines** *Note:* *Compliance with this acceptable solution can be demonstrated by the submission of a hydraulic and hydrology report identifying flood levels and development design levels (as part of a SBSMP)*	The floor levels comply with minimum levels as set out in the Subdivision and Development Guidelines.
		A3.2	Road access is provided in accordance with the flood immunity levels identified in Council's **Subdivision and Development Guidelines**	Flood free access is provided to this development as set out in the Subdivision and Development Guidelines.

Performance Criteria		Acceptable Solutions		Proposal
			Note: *Compliance with this acceptable solution can be demonstrated by the submission of a hydraulic and hydrology report identifying flood levels and development design levels*	
P4	Any channel works that are part of the development, major drainage works or flood mitigation works must maintain and/or enhance thew environmental values of the waterway corridor or drainage corridor	**A4**	Design and construction of channel works incorporate water sensitive urban design and natural channel design features which will comply with: • Council's Subdivision and Development Guidelines, and • Where applicable any SMP, LSMP or WMP prepared by Council *Note:* *Compliance with this acceptable solution can be demonstrated by the provision of conceptual details of any channel works (as part of a SBSMP)*	**This acceptable solution is not applicable as no channel drainage works will be incorporated with in this development.**
P5	Erosion treatment works along waterway banks and associated drainage structures must maintain or enhance the environmental values of waterways	**A5**	Design and construction of erosion treatment features incorporate natural channel design features which will comply with: • Council's Subdivision and Development Guidelines, and • Council's Urban Creek Erosion – Guidelines for Selecting Remedial Works *Note:*	**Best practice management of erosion minimisation techniques will be adopted, in accordance with attached sketch design.**

Performance Criteria		Acceptable Solutions		Proposal
			Compliance with this acceptable solution can be demonstrated by the provision of conceptual details of any erosion treatment works (as part of an SBSMP)	
P6	Bridges and culverts provided for flood immunity to minimise traffic disruption must improve public safety and allow for fauna movement and recreation corridors where these needs are identified	**A6**	The design complies with Council's **Subdivision and Development Guidelines** *Note:* *Compliance with this acceptable solution can be demonstrated by the provision of conceptual details of any bridge or culvert works (as part of a SBSMP)*	**This acceptable solution is not applicable, as the proposal does not include bridges and culverts.**
P7	The design and construction of detention and retention storage features must: • achieve acceptable impacts on environmental values • provide for recreational use where possible • achieve acceptable risk to public safety and property	**A7**	The design complies with Council's **Subdivision and Development Guidelines** and where applicable any SMP, LSMP or WMP prepared by Council. *Note:* *Compliance with this acceptable solution can be demonstrated by the provision of conceptual details of any detention and retention storage features (as part of a SBSMP)*	**This acceptable solution is not applicable, as the proposed development does not include the construction of detention/retention storage features.**

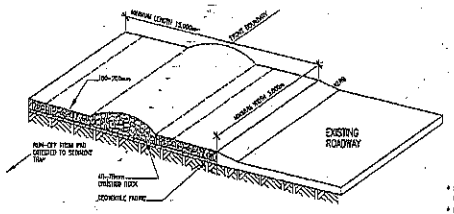
WATER QUALITY AND DRAINAGE

Performance Criteria		Acceptable Solutions		Proposal
Low risk development				
P1	Water quality impacts must be minimised using best practice techniques	**A1.1**	The design provides for stormwater quality best management practices that are sufficient to treat the target pollutants and will comply with Council's **Subdivision and Development Guidelines** *Note:* *Compliance with this acceptable solution can*	**Water quality best management practices utilizing landscaped areas and low maintenance systems shall be constructed to treat and remove water pollutant prior to discharging to the stormwater system. Refer to attached sketch design.**

Performance Criteria		Acceptable Solutions		Proposal
			*be demonstrated by indicating the areas that are to be set aside for water quality best management practices. For most development this can be achieved by determining pollutant loads using hand calculations as set out in Council's **Guidelines for Pollutant Export Modelling in Brisbane** and identifying the type and size of stormwater quality best management practices based on their efficiencies identified in Council's **Subdivision and Development Guidelines***	
		A1.2	Stormwater quality best management practices are design, constructed and maintained in accordance with Council's **Subdivision and Development Guidelines** *Note:* *Compliance with this acceptable solution can be demonstrated by providing conceptual detail of how stormwater quality will be managed (as part of a SBSMP)*	**Water quality best management practices utilizing low maintenance systems shall be constructed to treat and remove water pollutant prior to discharging to the stormwater system. Refer to attached sketch design**
P2	Release of sediment laden stormwater is minimised	**A2**	All development complies with Council's **Erosion and Sediment Control Standard** *Note:* *Compliance with this acceptable solution can be demonstrated by providing conceptual details of how the requirements of Council's **Erosion and Sediment Control Standard** will be met (conceptual SBSMP). This will generally be conditioned and may require the submission of a subsequent detailed SBSMP for operational works*	**Within this development the release of sediment lader stormwater shall be minimised by implementing of erosion and sediment control devices. Refer to attached sketch design details.**
High risk development				
P3	Environmental values and water quality objectives of receiving waters within or downstream of the proposal are protected	**A3.1**	Relevant water quality objectives for receiving waters are identified and site specific discharge standards met	**This acceptable solution is not applicable as the proposed development is not a high risk site.**

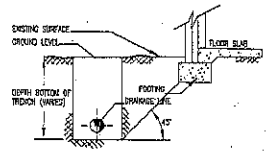
Performance Criteria	Acceptable Solutions	Proposal
or enhanced	*Note:* *Compliance with this acceptable solution may be demonstrated by following the process outlined in the **Management of Urban Stormwater Quality Planning Scheme Policy**. This can be documented in a SBSMP*	
	A3.2 The design provides for stormwater quality best management practices that are sufficient to treat the target pollutants and will comply with the Council's **Subdivision and Development Guidelines**	**This acceptable solution is not applicable as the proposed development is not a high risk site.**
	A3.3 Stormwater quality best management practices are designed, constructed and maintained in accordance with Council's **Subdivision and Development Guidelines** *Note:* *Compliance with this acceptable solution can be demonstrated by providing conceptual detail of how stormwater quality will be managed (as part of a SBSMP)*	**This acceptable solution is not applicable as the proposed development is not a high risk site.**
P4 Release of sediment laden stormwater is minimised	**A4** All development complies with Council's **Erosion and Sediment Control Standard** *Note:* *Compliance with this acceptable solution can be demonstrated by providing conceptual details of how the requirements of Council's **Erosion and Sediment Control Standard** will be met (conceptual SBSMP). This will generally be conditioned and may require the submission of a subsequent detailed SBSMP for operational works*	**This acceptable solution is not applicable as the proposed development is not a high risk site.**

DRAINAGE PLAN N°.



TYPICAL DETAIL OF STABILISED ENTRY/EXIT POINT DURING CONSTRUCTION

SCALE : NOT TO SCALE

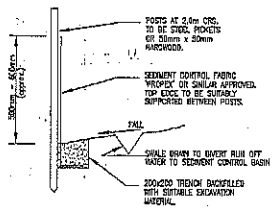


DRAINS IN PROXIMITY TO FOOTINGS AND FOUNDATIONS, SHALL COMPLY WITH THE FOLLOWING.

* DRAINS SHALL PASS UNDER A STRIP OF FOOTING AT NOT LESS THAN 45° AND HAVE A MINIMUM CLEARANCE OF 25mm FROM THE TOP OF THE PIPE TO THE UNDER SIDE OF ANY FOOTING.
* DRAIN LAID THROUGH FOOTINGS AND WALLS, WHICH TRAIN BELOW GROUND EXTERNAL WALLS, SHALL BE INSTALLED WITH AN ANNULAR SPACE OF NOT LESS THAN 25mm FILLED WITH A LENGTH OF FLEXIBLE MATERIAL.
* WHERE A DRAIN IS TO BE LAID PARALLEL TO A FOOTING, THE EXCAVATION SHALL COMPLY WITH AS 3500 CLAUSE 5.2 PART 2"AND ABOVE DOWN.
* DRAINS AND PIPES PASSING THROUGH WALLS AND FOOTINGS SHALL COMPLY WITH THE STRUCTURAL ENGINEERING SPECIFICATIONS FOR THE PROJECT.

DETAIL OF DRAINAGE LINE IN RELATION TO FOOTINGS AND FOUNDATIONS

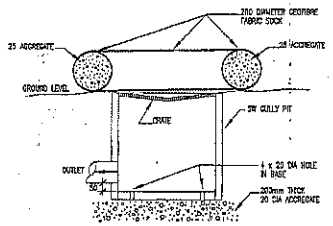
SCALE: NOT TO SCALE



DETAIL OF TEMPORARY SILTATION CONTROL FENCE

REFER TO LEGEND FOR SILTATION CONTROL FENCE SYMBOL

SCALE : NOT TO SCALE



SECTIONAL DETAIL OF STORMWATER GULLY WITH GEOFIBRE FABRIC SOCK

SCALE : NOT TO SCALE

LEGEND

SW	: STORMWATER DRAINAGE
AD	: AGRICULTURAL DRAIN
d	: EXISTING COUNCIL STORMWATER DRAINAGE
SW	: STORMWATER BY CIVIL CONTRACTOR

AG	: AGRICULTURAL
AS	: AUSTRALIAN STANDARD
CO	: CLEAR OUT
DIA	: DIAMETER
DP	: DOWNPIPE
RL	: INVERT LEVEL
IC	: INSPECTION CHAMBER
IL	: INVERT LEVEL
IO	: INSPECTION OPENING
MH	: MANHOLE
RHS	: RECTANGULAR HOLLOW SECTION
RL	: RELATIVE LEVEL
SL	: SURFACE LEVEL
SW	: STORMWATER

EROSION CONTROL LEGEND

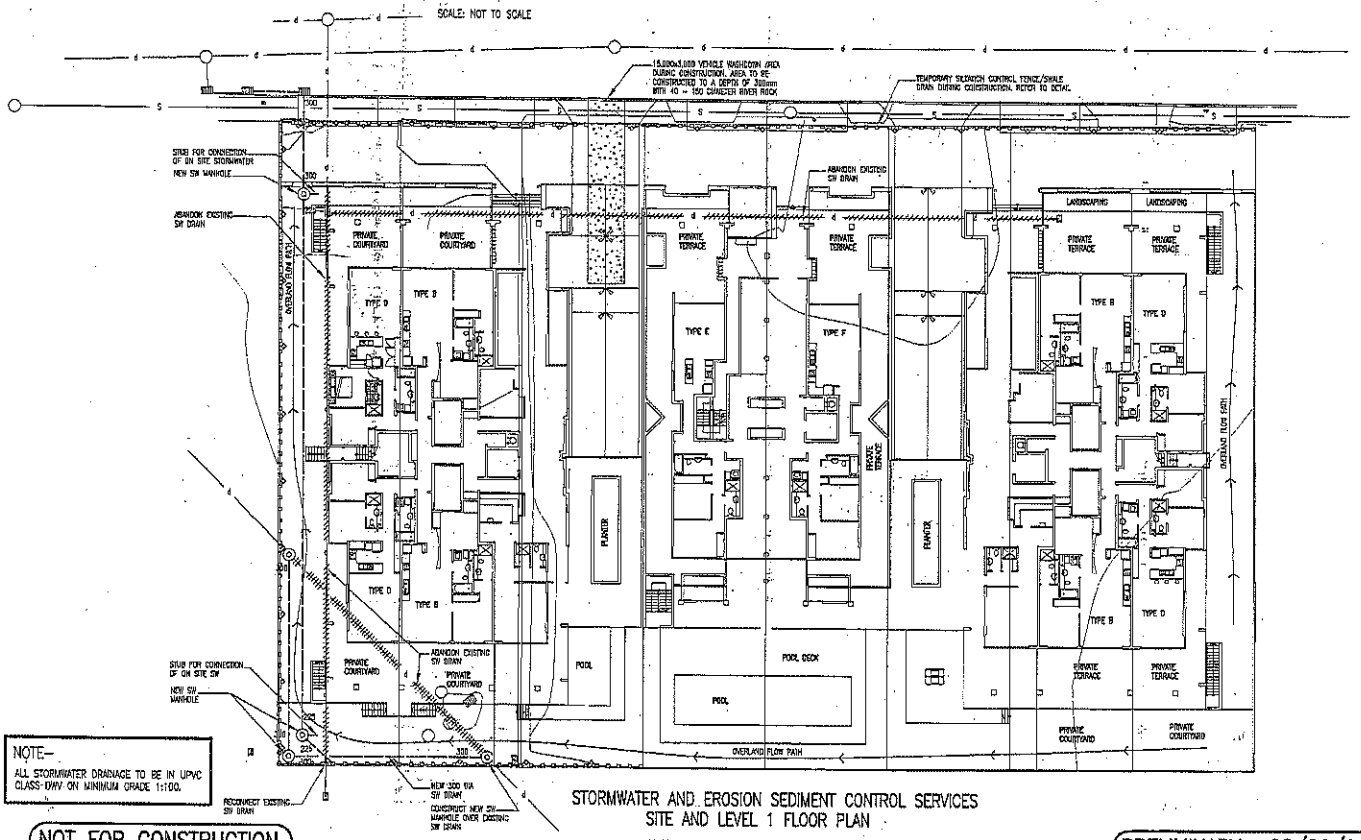
: SILTATION CONTROL FENCE

: GEOTEXTILE BAGS FILLED WITH 10-20 DIA AGGREGATE AROUND SEDIMENT BASIN & OUTLETS

: 200 DIA GEOFIBRE FABRIC SOCK

NOTES –

1. ALL IOs AND COs ARE TO BE TAKEN TO SURFACE LEVEL OR AS REQUIRED BY THE LOCAL AUTHORITY.
2. ALL VPs TO TERMINATE IN ACCORDANCE WITH AS 3500.
3. CONTRACTOR TO VERIFY ALL INVERT LEVELS, COVERAGE LEVELS AND COVER OVER DRAINAGE LINES ARE CORRECT AND OBTAINABLE BEFORE COMMENCEMENT AS INVERT LEVELS SHOWN ARE A GUIDE ONLY.
4. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL LIAISE DIRECTLY WITH THE APPROPRIATE AUTHORITIES AND SHALL ASCERTAIN THE EXACT POSITIONS OF ALL SERVICES. THE CONTRACTOR SHALL NOT WORK NEAR THESE SERVICES WITHOUT THE PERSONAL SUPERVISION OF THE WRITTEN PERMISSION OF THE RELEVANT AUTHORITIES.
5. CONTRACTOR TO COMPLY WITH THE WORKPLACE HEALTH AND SAFETY ACT & ENVIRONMENT AND HERITAGE ACT.
6. CONTRACTOR SHALL ENSURE THAT ALL PLUMBING AND DRAINAGE WORKS COMPLY WITH AS / NZS 3500 (ALL SECTIONS) AND PLUMBING AND DRAINAGE ACT 2002.
7. R.P.D. LOT
8. PATIOS A.H.D.
9. FIXTURES IN PROJECT = TOTAL ?



STORMWATER AND EROSION SEDIMENT CONTROL SERVICES SITE AND LEVEL 1 FLOOR PLAN

SCALE 1 : 200

NOTE–
ALL STORMWATER DRAINAGE TO BE IN UPVC CLASS DWV ON MINIMUM GRADE 1:100.

NOTES –

1/ CONSTRUCTION OF ALL SEDIMENT MANAGEMENT DEVICES SHALL BE COMPLETED AND EFFECTIVE PRIOR TO:
- STRIPPING OF TOPSOIL AND GRASS
- BULK EARTHWORKS TO THE SITE
- SERVICES INSTALLATION

2/ ALL SEDIMENT MANAGEMENT DEVICES ARE TO REMAIN UNTIL WRITTEN NOTICE FOR LICENSING AND COMPLIANCE.

3/ BOTH TEMPORARY AND PERMANENT SEDIMENT MANAGEMENT DEVICES SHALL BE MAINTAINED AT A SUITABLE LEVEL / CONDITION THROUGHOUT CONSTRUCTION. SEDIMENT FENCES ARE TO BE CLEANED OUT WHEN CAPACITY IS REDUCED BY 35%.

4/ PRIOR TO COMMENCEMENT OF CONSTRUCTION APPROVAL IS TO BE OBTAINED FROM LICENSING AND COMPLIANCE FOR THE LOCATION OF THE SITE ACCESS POINT AND WASH DOWN AREA WHICH ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

5/ IF EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN FOUND TO BE DEFICIENT OR FAILED IN SERVICE, DUE TO UNFORESEEN CIRCUMSTANCES, CORRECTIVE ACTION IS TO BE UNDERTAKEN IMMEDIATELY WHICH MAY INCLUDE AMENDMENTS/ ADDITIONS TO THE ORIGINAL APPROVED EROSION CONTROL PLANS. SUCH AS ADDITIONS OR AMENDMENTS ARE TO BE APPROVED BY LICENSING AND COMPLIANCE OFFICER, CITY COUNCIL.

6/ THE INSTALLATION, REMOVAL, RELOCATION OR MODIFICATION TO EROSION AND SEDIMENT CONTROL DEVICES MAY BE MADE BY A LICENSING AND COMPLIANCE OFFICER, BRISBANE CITY COUNCIL, IF DEEMED NECESSARY AND RELEVANT.

7/ CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS TO THE MANAGEMENT APPROVAL WITH ALL DEVICES TO BE INSTALLED AT THE END OF EACH WORK DAY AND BEFORE ANY STORM COMMENCES. ALL UNPROTECTED STORMWATER PIPES IN GROUND TO HAVE FILTER FABRIC INSTALLED OVER PIPE OR BE CAPPED.

NOT FOR CONSTRUCTION

PRELIMINARY –00/00/00–

AMEN	DESCRIPTION	DATE
A	ISSUB FOR COUNCIL SUBMISSION	

CUSTOMER
KOZMIC PTY LTD

ARCHITECT
FERRO MULLER ARCHITECTS
LEVEL 5, 26 WHARF STREET, BRISBANE 4001
PHONE: (07) 3839 1152

PROJECT
RESIDENTIAL DEVELOPMENT
AT 28–42 FERRY ROAD
WEST END

Chilton Woodward & Associates
Hydraulic & Fire Service Consultants
Suite 20, Argyle Place
14 Argyle Street, Breakfast Creek 4010
Email: chilwood@powerup.com.au
ph. (07) 3262 4922
fax (07) 3262 4900
CWA
ABN 29 112305772
QBSA No. 1003809

DRAWN	CAD	CHECKED	SCALE	DATE
T.Woodward	SMD	JCW	1:200	Sept 05'

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CWA BUILDING HYDRAULIC & FIRE SERVICES PTY LTD
ACN 112305772

0 1m 2 3 4 5
Scale 1 : 100 @ A1 Size

DRAWING TITLE
HYDRAULIC SERVICES–STORMWATER & EROSION SEDIMENT CONTROL SERVS SITE & LEVEL 1 FLOOR PLAN

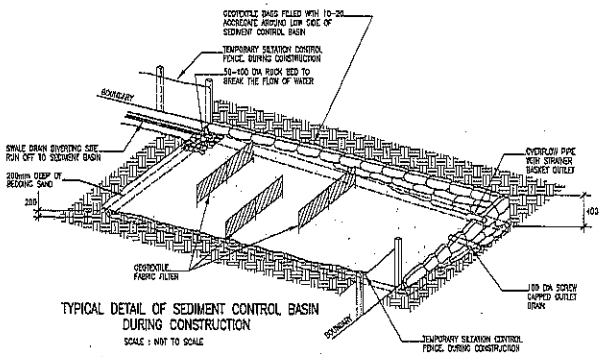
DRAWING No.	SHEET No.	ISSUE
05935–sk1	1 of 2	–

ORIGINAL –00/00/00–

DWG FILE No. 05935SK1

BCC.DSS.1494

DRAINAGE PLAN N°.



TYPICAL DETAIL OF SEDIMENT CONTROL BASIN DURING CONSTRUCTION

SCALE : NOT TO SCALE

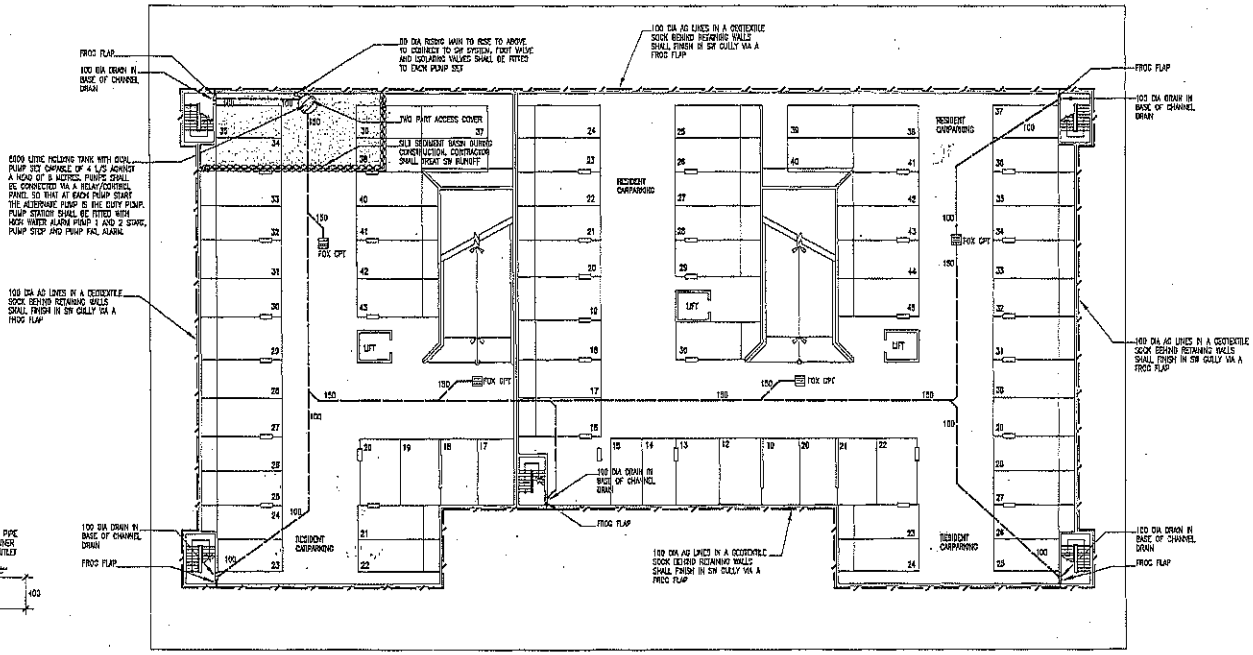
NOTE: 1/ SEDIMENT BASIN TO BE INSTALLED AND MAINTAINED DURING CONSTRUCTION.

2/ ALL SITE RUN OFF WATER SHALL DISCHARGE VIA SEDIMENT CONTROL BASIN.

3/ OVERFLOW LEVEL OF SEDIMENT BASIN SHALL FINISH MINIMUM OF 200mm BELOW FINISHED FLOOR LEVEL OF BUILDING.

4/ FINAL POSITION SHALL BE DETERMINED ON SITE.

5/ PERSON RESPONSIBLE FOR MAINTAINING BASIN SHALL TREAT STORED WATER WITH GYPSUM TO SETTLE SEDIMENT TO BASE THEN DRAIN ONCE WATER IS CLEAR.



STORMWATER AND EROSION SEDIMENT CONTROL SERVICES
BASEMENT 2 FLOOR PLAN

SCALE 1 : 200

NOT FOR CONSTRUCTION

PRELIMINARY -00/00/00-

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Scale 1 : 100 @ A1 Size

AMEN	DESCRIPTION	DATE
A	ISSUE FOR COUNCIL SUBMISSION	

CUSTOMER
KOZMIC PTY LTD

ARCHITECT
FERRO MULLER ARCHITECTS
LEVEL 5, 26 WHARF STREET, BRISBANE 4001
PHONE (07) 3839 1152

PROJECT
RESIDENTIAL DEVELOPMENT
AT 28-42 FERRY ROAD
WEST END

Chilton Woodward & Associates
Hydraulic & Fire Service Consultants
Suite 20, Argyle Place
14 Argyle Street, Breakfast Creek 4010
Email: chilwood@powerup.com.au
ph (07) 3262 4000
fax (07) 3262 4099
CWA
ABN 70 112 305 772
QBSA No.1066809

DRAWN	CAD	CHECKED	SCALE	DATE
T.Woodward	SMD	DW ? MC ?	1:200	Sept 05'

DRAWING TITLE
HYDRAULIC SERVICES--STORMWATER & EROSION SEDIMENT CONTROL SERVS BASEMENT 2 FLOOR PLAN

DRAWING No.	SHEET No.	ISSUE
05935--sk2	2 of 2	-

ORIGINAL -00/00/00-

CAD FILE No. 05935SK