

GOLD COAST PARKLANDS



SITE LOCALITY MAP

NOT TO SCALE

DRAWING LIST

DRAWING LIST	
00001	SITE LOCALITY MAP, DRAWING LIST AND GENERAL NOTES
00002	EARTHWORKS AND ACCESS
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GENERAL NOTES

- THESE DRAWINGS PROVIDE DETAILS OF THE FUNCTIONAL STORMWATER QUALITY MANAGEMENT SYSTEMS. FOR DETAILS OF THE DRAINAGE AND FLOOD STRUCTURES, REFER TO ROADWORKS AND DRAINAGE DRAWINGS (HYDER)
- THESE NOTES APPLY TO ALL PROJECT DRAWINGS IN THE SET UNLESS NOTED OTHERWISE AND SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.
- ALL LEVELS ARE IN METRES TO AUSTRALIAN HEIGHT DATUM (AHD).
- ALL CO-ORDINATES ARE IN METRES TO MAP AUSTRALIAN GRID (MGA).
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- DIMENSIONS SHALL NOT BE SCALED OFF DRAWINGS.
- REFER DRAWING D0006 FOR CONSTRUCTION NOTES
- REFER LANDSCAPE DRAWINGS (DBI) FOR PEDESTRIAN AND ACCESS PATH DETAILS
- ALL STORMWATER PIPEWORK TO INCLUDE HEADWALLS AS PER GCCC AND DTMR STANDARDS UNLESS NOTED OTHERWISE

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
17 DEC 2013
MEDQ



REVISION		DESCRIPTION	DATE	INITIALS	APPROVED
A	PRELIMINARY ISSUE	SL	27.11.13	SL	27.11.13
B	UPDATED STORMWATER PIPE LAYOUT	SL	23.07.13	SL	23.07.13

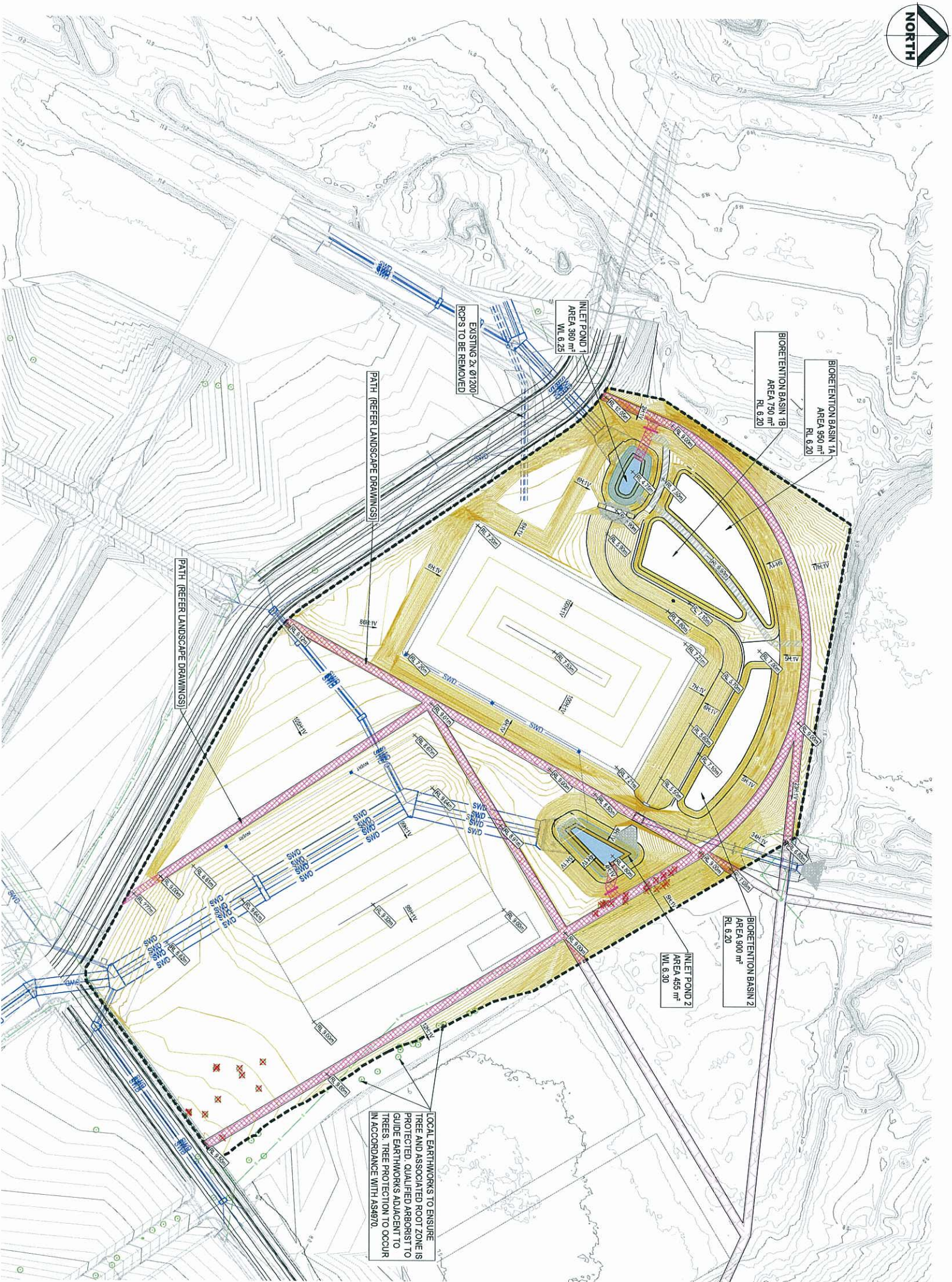
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CLIENT		PROJECT	
DEPT. OF STATE DEVELOPMENT, INFRASTRUCTURE & PLANNING	DATE	GOLD COAST PARKLANDS	DRAWING TITLE
MM	27.11.13	SITE LOCALITY MAP, DRAWING LIST AND GENERAL NOTES	
SL	27.11.13	PROJECT No	4209
SCALE	NOT TO SCALE	DRAWING No	D0001
		REVISION	B



PLAN VIEW
A1 SCALE 1:1000

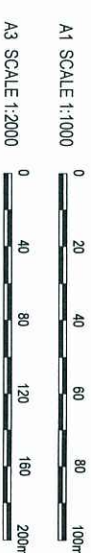
- LEGEND**
- TREES (RETAINED)
 - TREES (REMOVED)
 - CONCRETE TRAFFICABLE PATH (3m)
 - FUTURE PEDESTRIAN CONNECTION
 - GRAVEL PATH (2.5m)
 - PERMANENT WATER (SEDIMENT POND)
 - CONCRETE BASE OF BASINS
 - EARTHWORKS CONTOURS (0.1m)
 - EXISTING CONTOURS
 - UNDERDRAIN CLEANOUT
 - FIELD INLET PIT
 - STORMWATER MANHOLE
 - STORMWATER DRAINAGE
 - TRUNK STORMWATER DRAINAGE (REFER ROADWORKS AND DRAINAGE DRAWINGS)
 - SEWER

NOTE:
1. REFER TO ROADWORKS AND DRAINAGE DRAWINGS FOR TRUNK STORMWATER, EARTHWORKS, SETOUT AND STRUCTURAL DESIGN

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B	UPDATED STORMWATER PIPE LAYOUT	SL 27.11.13	SL 27.11.13
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CLIENT	DEPT. OF STATE DEVELOPMENT, INFRASTRUCTURE & PLANNING	PROJECT	GOLD COAST PARKLANDS
DRAWN	MM	DATE	27.11.13
DESIGNED	SL	DATE	27.11.13
SCALE	1:1000	PROJECT No	4209
		DRAWING No	D0002
		REVISION	B



KEYMAP
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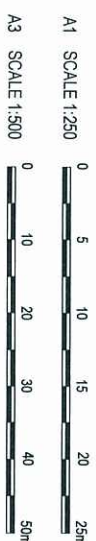


NOTE:
1. REFER TO ROADWORKS AND DRAINAGE DRAWINGS FOR TRUNK
STORMWATER, EARTHWORKS, SETOUT AND STRUCTURAL DESIGN

- LEGEND
- CONCRETE TRAFFICABLE PATH (3m)
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PLAN VIEW
A1 SCALE 1:250



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B	UPDATED STORMWATER PIPE LAYOUT	SL 27.11.13	SL 27.11.13

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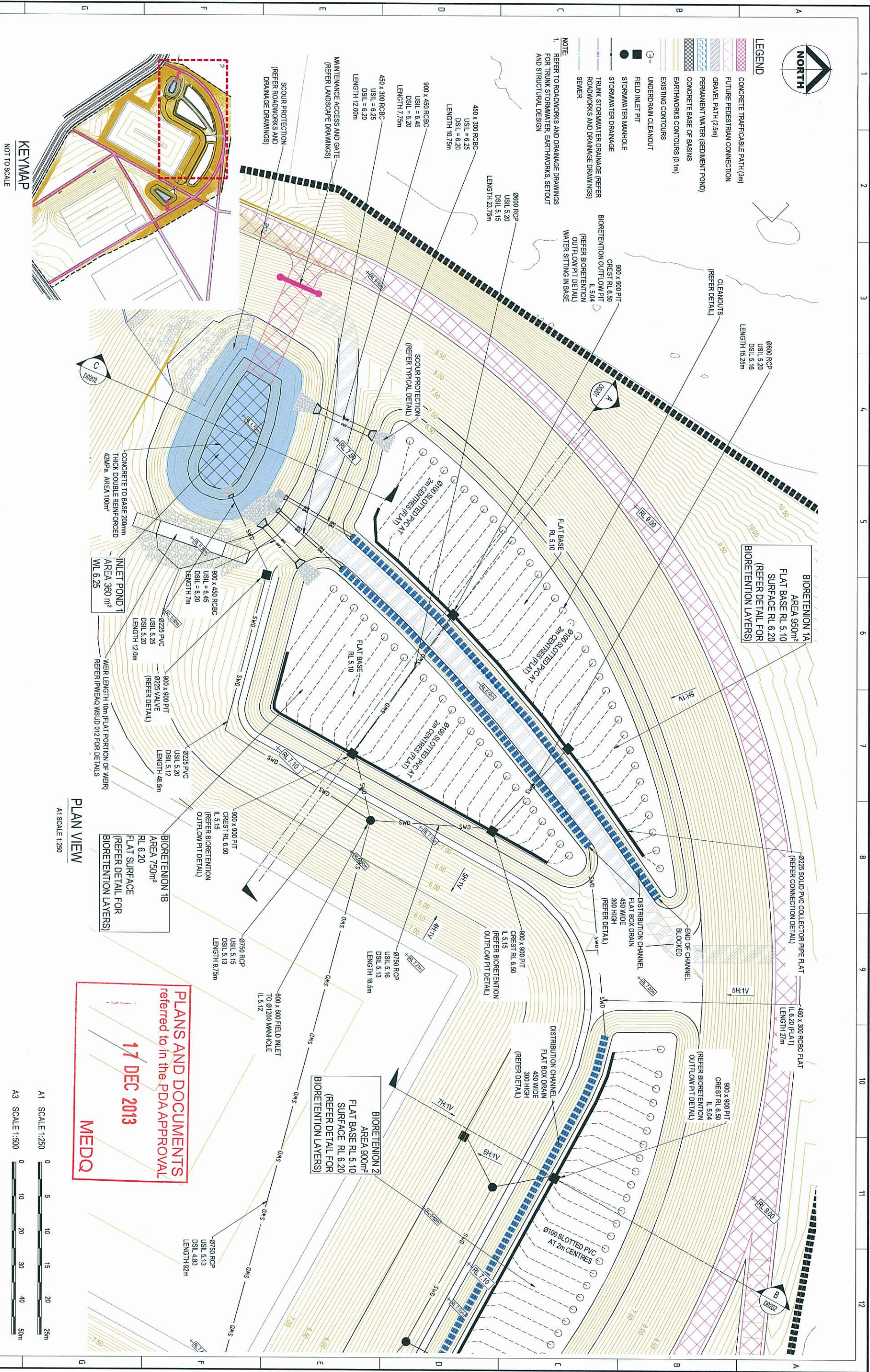
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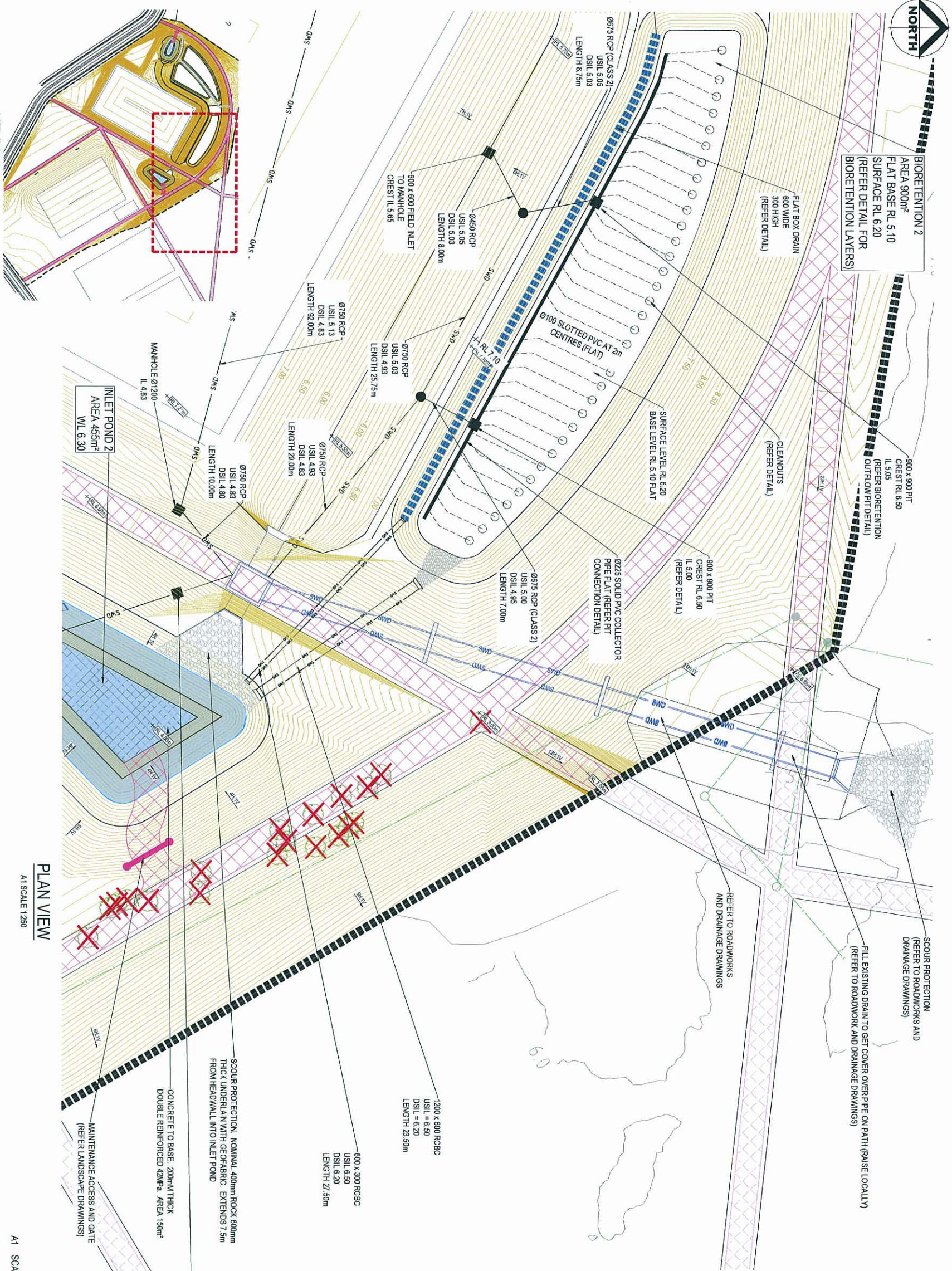
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CLIENT	PROJECT
DEPT. OF STATE DEVELOPMENT, INFRASTRUCTURE & PLANNING	GOLD COAST PARKLANDS
MM	STORMWATER MANAGEMENT
SL	FUNCTIONAL DESIGN
DATE	27.11.13
DATE	27.11.13
SCALE	A1

PROJECT	DRAWING TITLE	PROJECT NO.	DRAWING NO.	REVISION
GOLD COAST PARKLANDS	STORMWATER MANAGEMENT	4209	D0003	B
FUNCTIONAL DESIGN				
PLAN VIEW - PAGE 1 of 3				

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KEYMAP
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PLAN VIEW
A1 SCALE 1:250

A1 SCALE 1:250



A3 SCALE 1:500



LEGEND	
	CONCRETE TRAFFICABLE PATH (3m)
	FUTURE PEDESTRIAN CONNECTION
	GRAVEL PATH (25m)
	PERMANENT WATER (SEDIMENT POND)
	CONCRETE BASE OF BASINS
	EARTHWORKS CONTOURS (0.1m)
	EXISTING CONTOURS
	UNDERDRAIN CLEANOUT
	FIELD INLET PIT
	STORMWATER MANHOLE
	STORMWATER DRAINAGE
	TRUNK STORMWATER DRAINAGE (PREFER ROADWORKS AND DRAINAGE DRAWINGS)
	SEWER

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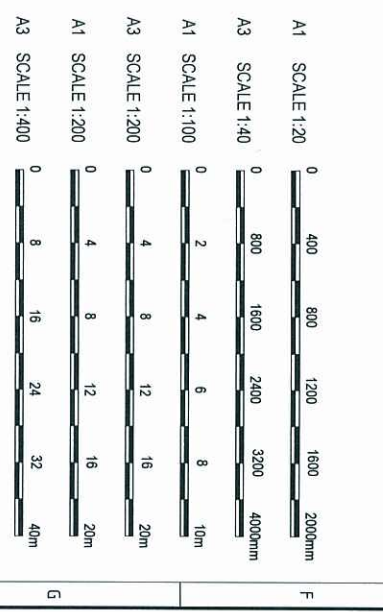
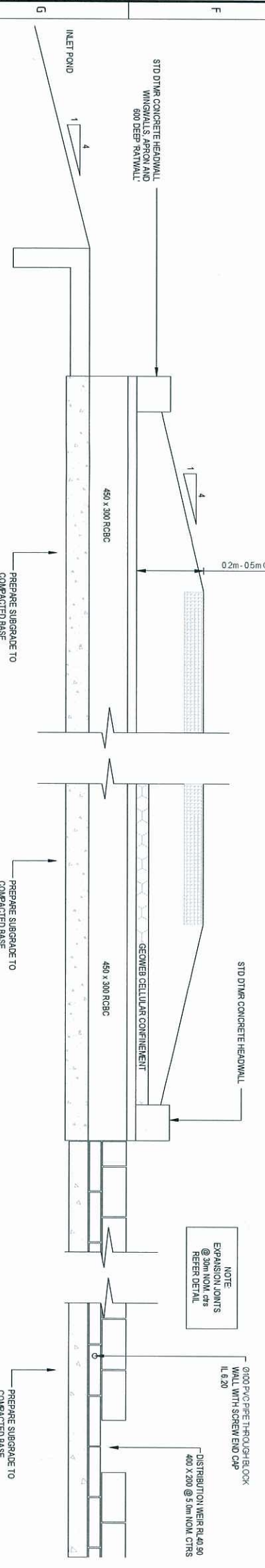
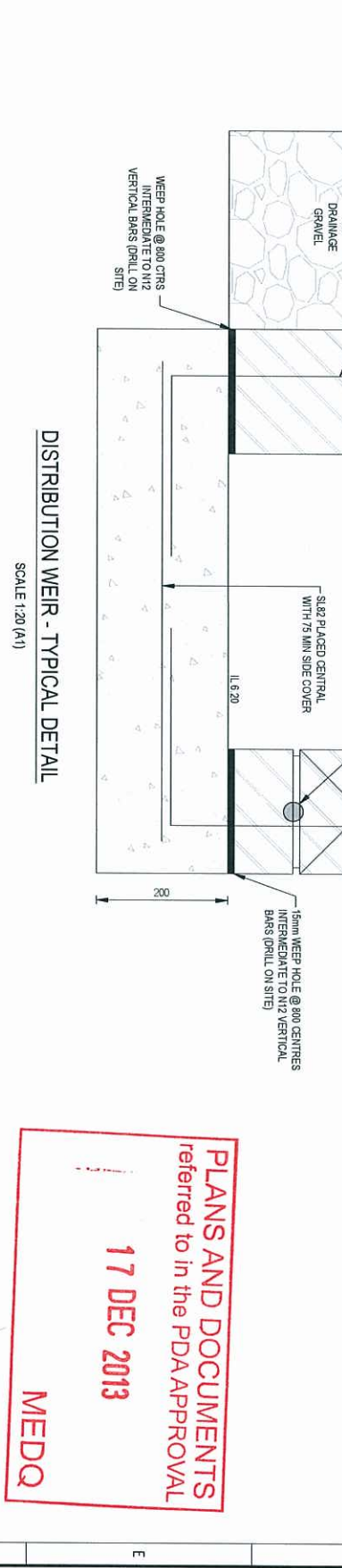
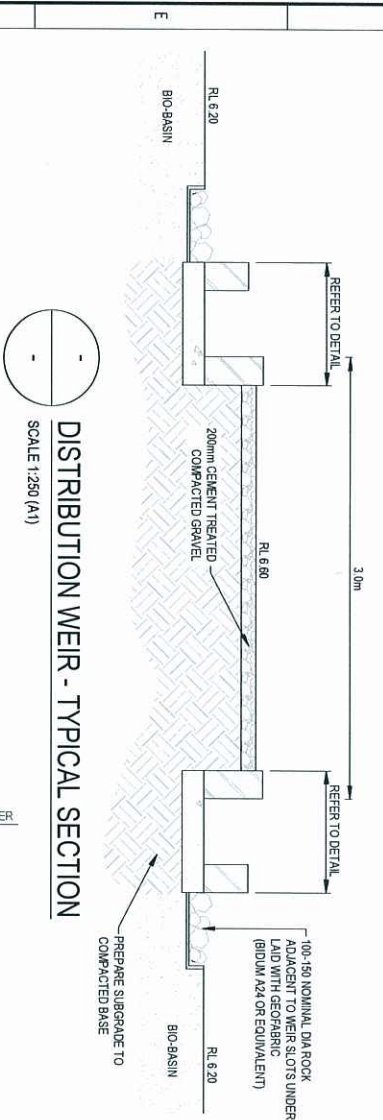
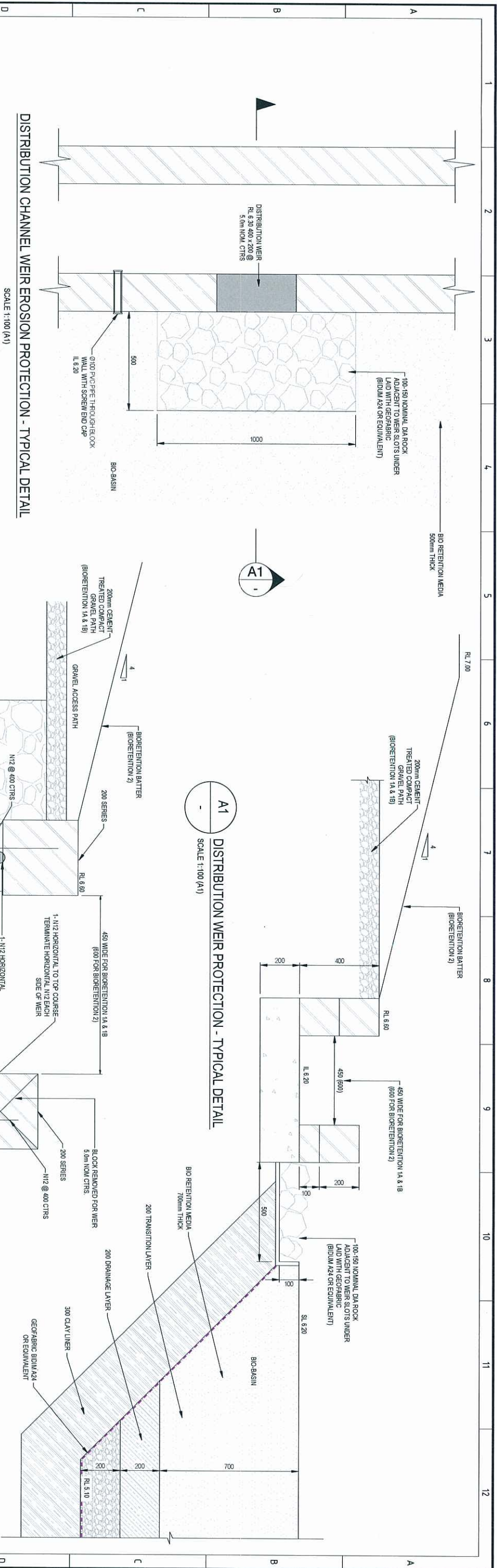
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CLIENT		PROJECT	
DEPT. OF STATE DEVELOPMENT, INFRASTRUCTURE & PLANNING		GOLD COAST PARKLANDS	
DRAWN	DATE	DRAWING TITLE	
MJM	27.11.13	STORMWATER MANAGEMENT FUNCTIONAL DESIGN	
DESIGNED	DATE	PLAN VIEW - PAGE 3 of 3	
SL	27.11.13	PROJECT No.	REVISION
SCALE	A1	4209	D0005
			B

1		2		3		4		5		6		7		8		9		10		11		12	
GENERAL 1. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL PROVIDE TO THE SUPERINTENDENT A COPY OF THE CONSTRUCTION PROGRAM DETAILING THE DATES OF COMMENCEMENT AND COMPLETION FOR EACH STAGE. 2. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL PREPARE AND FORWARD TO THE SUPERINTENDENT A REPORT ON THE CONDITION OF EXISTING INFRASTRUCTURE IN THE VICINITY OF THE WORKS SITE. THE REPORT SHALL LIST THE LOCATION AND EXTENT OF ANY EXISTING DAMAGE. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGED ASSETS THAT ARE NOT REPAIRED PRIOR TO THE COMMENCEMENT OF WORKS. 3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL PREPARE AND FORWARD AN EROSION AND SEDIMENT CONTROL PLAN TO THE SUPERINTENDENT FOR APPROVAL. THE CONTRACTOR SHALL COMPLY WITH THIS PLAN, AND ADJUST AS REQUIRED DURING THE CONSTRUCTION PHASE. 4. DO NOT SCALE OFF DRAWINGS. 5. ALL DIMENSIONS AND LEVELS TO BE SITE CHECKED AND ANY DISCREPANCY REPORTED TO THE SUPERINTENDENT. 6. ANY VARIATION TO THE DETAILS SHOWN ON THE DRAWING MUST BE AUTHORISED BY THE SUPERINTENDENT PRIOR TO FABRICATION AND/OR CONSTRUCTION. 7. CONSTRUCTION WORK SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT. 8. ALL PROPRIETARY PRODUCTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. 9. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. 10. ALL R.L.S AND F.S.L.S ARE IN METRES AND (MAAD). 11. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING CONSTRUCTION. 12. ALL ASSETS MODIFIED OR DAMAGED BY THE PROPOSED WORKS SHALL BE REINSTATED TO THE SATISFACTION OF THE SUPERINTENDENT. 13. THE CONTRACTOR SHALL REMOVE ALL STRUCTURES, DEBRIS AND FENCES FROM THE SITE TO THE SATISFACTION OF THE SUPERINTENDENT. 14. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF DEMOLISHING ANY EXISTING STRUCTURES WITHIN THE SITE AREAS. INSPECTIONS THE CONTRACTOR SHALL REQUIRE THAT THE SUPERINTENDENT ARRANGE INSPECTIONS BY THE DESIGN TEAM AT THE FOLLOWING MILESTONES: 1. AT THE COMPLETION OF BULK EARTHWORKS AND ALL CIVIL STRUCTURES, AND PRIOR TO TOPSOILING, TO CONFIRM COMPLIANCE WITH DESIGN DRAWINGS AND APPROPRIATENESS OF PROPOSED TOPSOIL. (CONTRACTOR TO PROVIDE AS CONSTRUCTED SURVEY REPORT TO THESE INSPECTIONS) 2. AT THE COMPLETION OF TOPSOILING TO CONFIRM APPROPRIATE TOPSOIL DEPTH AND PREPARATION. VEGETATION PROTECTION 1. TREES WITHIN 4m OF GENERAL MACHINE OPERATION SHOULD BE PROTECTED WITH TREE GUARDS. THESE COMPRISE RUBBER OR HARDWOOD GIRDLES CONSTRUCTED WITH 18mm BATTERS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHOULD BE STRAPPED TO THE TREE PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION. 2. ACCESS SHOULD BE RESTRICTED TO PRE-EXISTING TRACKS OR THE PATH OF DISTURBANCE. SOIL MANAGEMENT 1. CONTRACTOR SHALL SUBMIT A SOIL EROSION MANAGEMENT PLAN TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORKS. 2. NO NET LOSS OF SEDIMENT SHALL OCCUR FROM THE WORK SITE. THIS WILL NECESSITATE THE USE OF APPROPRIATE EROSION AND SEDIMENT CONTROLS. THESE SHOULD BE IMPLEMENTED AT THE SITE ESTABLISHMENT PHASE AND MAINTAINED/ADJUSTED AS REQUIRED THROUGHOUT THE CONSTRUCTION PERIOD. 3. IMMEDIATELY FOLLOWING EARTHWORKS, ALL EXPOSED SURFACES SHALL BE REVEGETATED WITH STERILE GRASSES (E.G. HYDROSEED). IN ADDITION AN EROSION AND SEDIMENT CONTROL PLAN IS REQUIRED AS FOR ANY MAJOR CONSTRUCTION WORKS. 4. FOLLOWING THE FIRST FEW RAINFALL EVENTS, THE INLET TO THE SEDIMENT PONDS AND MACROPHYTE ZONES MUST BE INSPECTED TO ENSURE EROSION PROTECTION MEASURES ARE SUFFICIENT. 5. CONTRACTOR TO NOMINATE STOCKPILE AREAS FOR APPROVAL BY THE SITE SUPERINTENDENT. STOCKPILES ARE TO BE LOCATED AWAY FROM DRAINAGE LINES. PROVISION OF A DIVERSION BERM UP-SLOPE AND SILT FENCES DOWNSTREAM OF STOCKPILES IS REQUIRED. MAXIMUM STOCKPILE BATTER IS TO BE 1:2 AND STOCKPILES ARE TO BE AS LOW AND FLAT AS POSSIBLE. MAXIMUM HEIGHT 3m. 6. MINIMISE DISTURBANCE TO AREAS OUTSIDE OF EARTHWORKS FOOTPRINT. 7. PROVIDE SILT FENCES/MULCH BERRS AT TOE OF BATTERS ADJACENT TO DRAINAGE LINES DURING CONSTRUCTION. HAY BALES ARE PREFERRED WHEN CROSSING NATURAL DRAINAGE LINES WHERE FLOWS ARE CONCENTRATED. 8. CONTRACTOR TO NOMINATE A SINGLE ENTRY ACCESS TO THE SITE FOR EACH WETLAND AND CONSTRUCT A SUITABLE TEMPORARY ACCESS AS APPROVED BY THE SITE SUPERINTENDENT. ACCESS SHALL BE A MINIMUM 15m LONG AND 3m WIDE AND BE CONSTRUCTED WITHIN A RAISED BERM TO 300mm. 9. CONTRACTOR TO PROVIDE ADEQUATE ACCESS PATHS TO COMPLETE THE WORKS AND KEEP TO ACCESSSES. 10. STRAIGHTEN BATTERS AND CHANNELS AS PER DESIGN IMMEDIATELY FOLLOWING CONSTRUCTION. 11. PROVIDE TEMPORARY SEDIMENT TRAPS AT OUTLETS TO DRAINAGE CHANNELS DURING CONSTRUCTION. 12. CONTRACTOR TO NOMINATE A FIELD ENVIRONMENT AND SAFETY OFFICER RESPONSIBLE FOR IMPLEMENTING MANAGING AND MONITORING SOIL EROSION CONTROL MEASURES. 13. FIELD ENVIRONMENT AND SAFETY OFFICER TO REGULARLY INSPECT SOIL EROSION CONTROL MEASURES WEEKLY AND PARTICULARLY FOLLOWING RAIN EVENTS. 14. BEYOND THIS PLAN, THE FIELD OFFICER WILL PUT IN PLACE MEASURES AS APPROPRIATE FOR ANY UNPLANNED DISCHARGES. 15. IN MORE SERIOUS CASES OF UNPLANNED DISCHARGES WORKS SHALL CEASE UNTIL THE RISK IS PREVENTED. THIS MAY INCLUDE INSTALLATION OF ADDITIONAL MEASURES AND REPAIR OF UPSTREAM CONTROLS. 16. THE CONTRACTOR SHALL REHABILITATE AND DESILT ANY AREAS IMPACTED BY UNPLANNED DISCHARGES. HIGH FLOW CONTINGENCIES 1. CONTINGENCIES TO MANAGE RISKS ASSOCIATED WITH FLOOD EVENTS DURING CONSTRUCTION ARE REQUIRED. 2. ADEQUATE EROSION AND SEDIMENT CONTROLS MUST BE IN PLACE AT THE END OF EACH DAY AND THE SITE MUST BE STABILISED AGAINST SOIL EROSION AS SOON AS POSSIBLE. 3. ALL MACHINERY SHALL BE STORED ABOVE ACCEPTABLE FLOOD LEVELS AND A MECHANISM FOR DEMATERING THE CONSTRUCTION SITE MADE AVAILABLE. EARTHWORKS 1. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION. SIMILARLY, THE FINISHED SURFACE LEVELS MAY BE ADJUSTED BY THE WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION. 2. TOPSOIL AND SUBSOIL SHOULD BE STOCKPILED SEPARATELY. 3. THE FILL SHOULD BE OF GOOD QUALITY AND FREE OF UNSUITABLE MATERIAL (INCLUDING BUT NOT LIMITED TO ORGANICS, CONTAMINATES ETC.) AS APPROVED BY A NATA REGISTERED GEOTECHNICAL ENGINEER. 4. THE EXISTING SURFACE IS TO BE CLEAR OF VEGETATION MATTER PRIOR TO THE START OF FILLING. 5. PRIOR TO THE PLACEMENT OF ANY FILL OR PAVEMENT, THE EXPOSED SUBGRADE SHALL BE COMPACTED IN ACCORDANCE WITH AS 1289, TO THE APPROVAL OF THE SUPERINTENDENT AND ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH APPROVED FILL AND COMPACTED. 6. ALL FILLING SHALL COMPRISE SELECT ON-SITE MATERIAL TO COMPACTION DENSITIES IN ACCORDANCE WITH THE SPECIFICATIONS. 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENGAGING A NATA REGISTERED GEOTECHNICAL ENGINEER TO PROVIDE LEVEL 1 TEST REPORTS/CERTIFICATE TO VERIFY COMPLIANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND SPECIFICATIONS. 8. ALL TOPSOIL SHALL REMAIN ON SITE AND BE REUSED ON DISTURBED AND CONSTRUCTED SURFACES AS SHOWN IN THESE DRAWINGS. 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMATERING OF ALL TRENCHES AND EXCAVATIONS. 10. THE CONTRACTOR SHALL DISPOSE OF ANY EXCESS SPOL AS DIRECTED BY THE SUPERINTENDENT. TOPSOIL 1. TOPSOIL, GENERALLY TO CONFORM TO AS 4419 - 2003, SOILS FOR LANDSCAPING AND GARDEN USE, I.E. TOPSOIL SHALL BE FREE OF ANY DELETERIOUS MATTER INCLUDING SUB-SOIL, TURF, WEEDS, STICKS AND ROOTS, STONES OVER 25mm DIAMETER AND ANY MATERIAL TOXIC TO PLANT GROWTH. ACIDITY RANGE SHALL BE PH 6.7 OR AS RECOMMENDED BY AN AGRONOMIST. USE OF EXISTING TOPSOIL IS SUBJECT TO APPROVAL BY SITE SUPERINTENDENT. 2. WITHIN THE WETLAND MACROPHYTE ZONE TOPSOIL SHOULD BE PLACED TO A MINIMUM DEPTH OF 300mm. NOTE THAT DESIGN LEVELS FOR THE WETLAND ARE INCLUSIVE OF TOPSOIL, SUCH THAT ADDITIONAL EXCAVATION WILL BE REQUIRED TO ACCOUNT FOR DAY LINER AND TOPSOIL. THE CLAY LINER SHOULD BE LIGHTLY RIPPED PRIOR TO PLACEMENT OF TOPSOIL TO AVOID A DISTINCT SOIL HORIZON. 1 2 3 4 5 6 7 8 9 10 11 12 ISSUED FOR APPROVAL NOT FOR CONSTRUCTION THIS DRAWING IS COPYRIGHT TO DESIGNFLOW. NO PART OF THIS DRAWING INCLUDING THE WHOLE OR PART SHALL BE USED FOR ANY OTHER THIRD PARTY WITHOUT THE WRITTEN CONSENT OF DESIGNFLOW. DESIGNFLOW 4 AERON STREET, SOUTHPORT QLD 4215 P.O. BOX 1250 SOUTHPORT BC, SOUTHPORT QLD 4215 Ph: (07) 5528 1148 www.designflow.net.au DESIGNFLOW DESIGNFLOW 1. DRAINAGE PIPES AND PITS 1. DRAINS TO BE INSPECTED AND APPROVED BY THE SUPERINTENDENT PRIOR TO BACK FILLING. 2. ALL CONSTRUCTED PIPENWORK SHALL BE FLUSHED AND CLEANED AT THE COMPLETION OF WORKS TO THE SUPERINTENDENT'S APPROVAL. 3. ALL PITS SHALL HAVE MASS CONCRETE SHAPED BASINS TO THE SUPERINTENDENT'S APPROVAL UNLESS SPECIFIED OTHERWISE. 4. ALL GRATED PITS SHALL BE HINGED AND PROVIDED WITH A SECURE LOCK DOWN SYSTEM. 5. ALL PITS DEEPER THAN 600mm SHALL BE INSTALLED WITH CRANED GALVANISED STEEL IRONS. 6. ALL STORMWATER PIPES SHALL BE CLASS 7 R.C.P UNLESS NOTED OTHERWISE. BULK FILLING REQUIREMENTS SHALL BE IN STRICT ACCORDANCE WITH COUNCIL REQUIREMENTS. 7. THE STORMWATER PIPE CLASSES HAVE BEEN DESIGNED FOR SERVICE LOADS ONLY, AND THE CONTRACTOR SHALL ASSESS ANTICIPATED CONSTRUCTION LOADS AND UPGRADE THE PIPE CLASSES IF NECESSARY. IN ACCORDANCE WITH AS 3725-1989, ANY UPGRADE SHALL BE AT THE CONTRACTORS COST. 8. MINIMUM PIPE GRADES ARE TO COMPLY GENERALLY WITH AS 3500, NATIONAL PLUMBING AND DRAINAGE CODE PART 3 STORMWATER DRAINAGE EXCEPT WHERE SPECIFICALLY NOTED. 9. CONCRETE TO BE N25 UNLESS NOTED OTHERWISE. CLAY LINER 1. THE CONTRACTOR IS TO SEEK SUPPORT OF A QUALIFIED GEOTECHNICAL ENGINEER TO COMPLETE TESTING OF IN-SITU SOILS. IF THE PERMEABILITY OF SOILS IN SITE TESTED) IS >1x10⁻⁹ MS, THEN A CLAY LINER IS REQUIRED TO THE BASE OF WETLAND. 2. THE CLAY LINER WILL BE 300mm THICK COMPACTED TO 95% SMD AS PER AS 1289 METHOD 5.1.1 AND SHALL ACHIEVE A MAXIMUM PERMEABILITY OF <1x10⁻⁹ ms. 3. THE CONTRACTOR IS TO SEEK SUPPORT OF A QUALIFIED GEOTECHNICAL ENGINEER TO COMPLETE TESTING TO ENSURE APPROPRIATE MATERIALS FOR USE AS CLAY LINER. 4. THE CLAY LINER IS TO BE CONSTRUCTED IN TWO LAYERS EACH OF 150mm MINIMUM THICKNESS OR AS ADVISED IN WRITING BY A QUALIFIED GEOTECHNICAL ENGINEER. 5. CLAY LINER IS TO BE HARVESTED FROM CLAY ON SITE WHERE POSSIBLE. 6. ALTERNATIVE MATERIALS (E.G. ECOSOL, BENTONIX OR SIMILAR) ARE TO BE INSTALLED IN ACCORDANCE WITH SUPPLIERS SPECIFICATIONS AND APPROPRIATELY TESTED TO ENSURE WATERTIGHT. THE LINER IS TO BE 'KEYED' INTO BATTERS IN ACCORDANCE WITH SUPPLIERS SPECIFICATIONS. REHABILITATION 1. PRE-DISTURBED SOIL PROFILES AND COMPACTION LEVELS ARE TO BE REINSTATED. 2. ALL DISTURBED AREAS ARE TO BE LEFT IN A STABLE CONDITION. SLOPES SHOULD BE STABILISED USING APPROPRIATE EROSION CONTROL MEASURES. UPON COMPLETION OF WORKS, THE CONTRACTOR SHALL ENSURE THAT THE SITE IS CLEAN AND TIDY WITH ALL RUBBISH AND OTHER MATERIALS REMOVED TO THE SATISFACTION OF THE SUPERINTENDENT. BIORETENTION 1. BIORETENTION SEDIMENT BASIN (INLET POND) TO OCCUR IN ACCORDANCE WITH WATER SENSITIVE URBAN DESIGN CONSTRUCTION AND ESTABLISHMENT GUIDELINES - SWALES. 2. BIORETENTION SYSTEMS AND WETLANDS* (WATER BY DESIGN). ALL INSPECTION AND SIGN-OFF FORMS MUST BE COMPLETED WITH SUPERVISOR AND DESIGNER. BIORETENTION MEDIA SPECIFICATION SHALL BE IN ACCORDANCE WITH THE WATER BY DESIGN BIORETENTION TECHNICAL DESIGN GUIDELINE. FOLLOWING CONSTRUCTION CONDUCTIVITY* THE NUMBER OF SAMPLES																							



CONNECTING CULVERTS - TYPICAL SECTION
SCALE 1:200 (A1)

DISTRIBUTION CHANNEL / WEIR - TYPICAL DETAIL
SCALE 1:200 (A1)

REVISION	DESCRIPTION	DRAWN	CHECKED	DATE
A	PRELIMINARY ISSUE	SL	SL	27/11/13
B	MINOR EDIT TO DISTRIBUTION WEIR SECTION	SL	SL	27/11/13

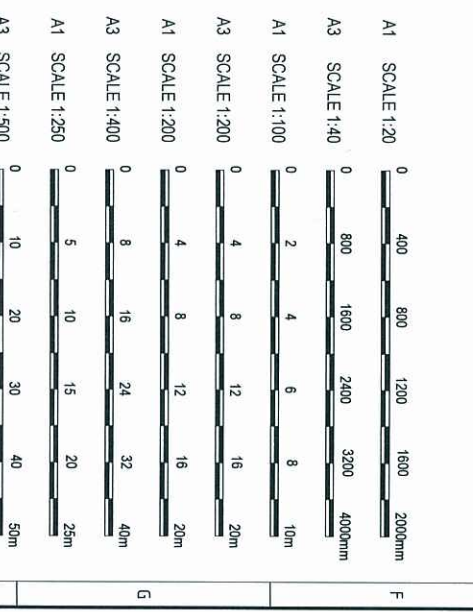
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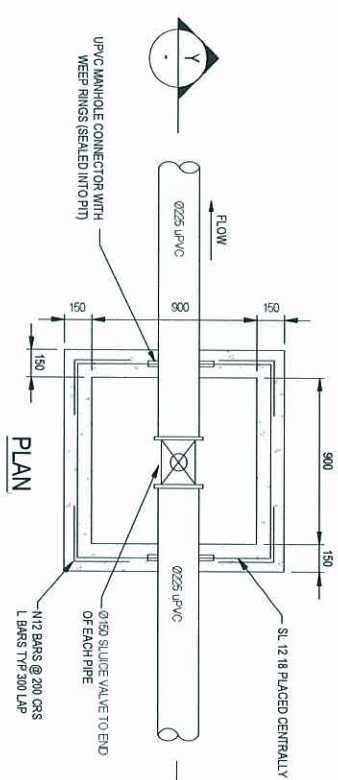
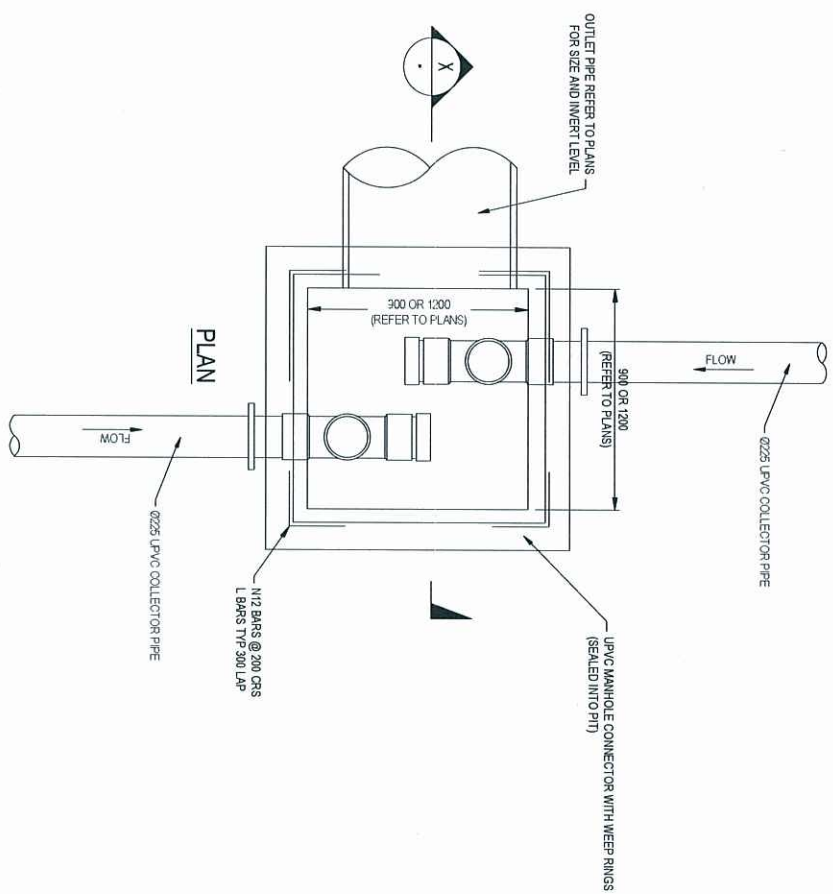
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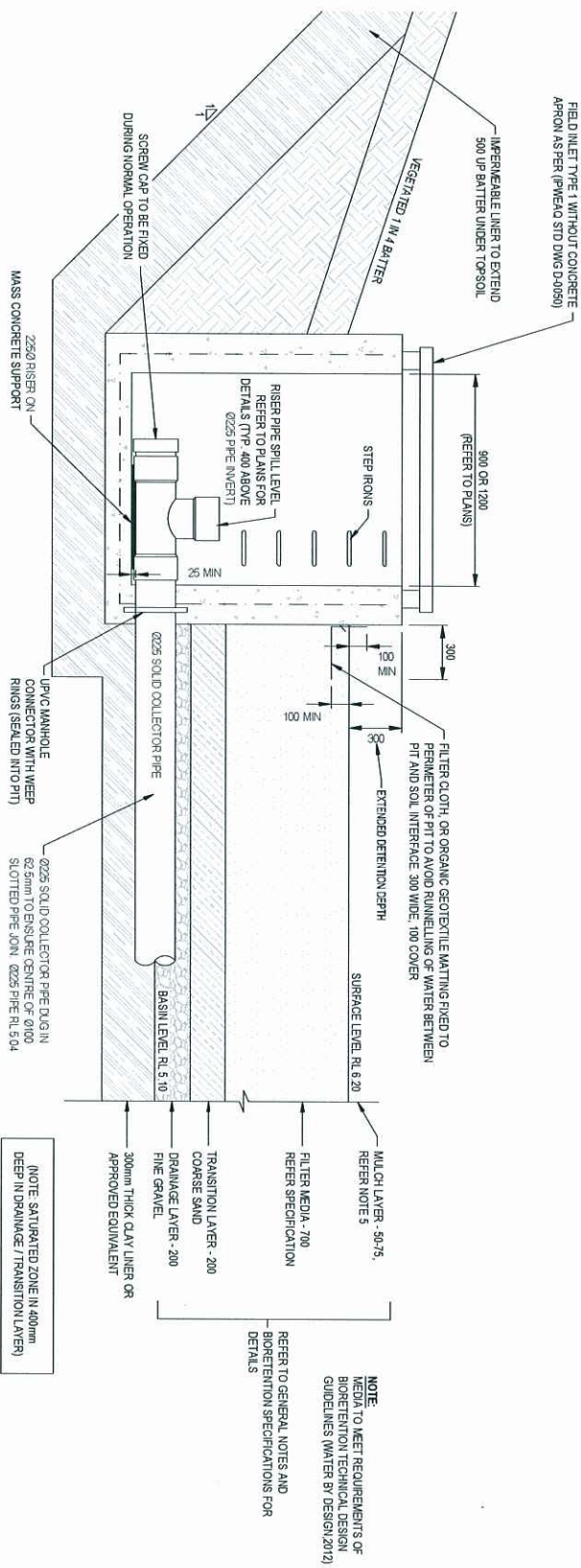
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DRAWN	MM	DATE	27/11/13
DESIGNED	SL	DATE	27/11/13
SCALE	AS SHOWN	PROJECT No	4209
SCALE	AS SHOWN	DRAWING No	D0101
SCALE	AS SHOWN	REVISION	B

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
17 DEC 2013
MEDQ

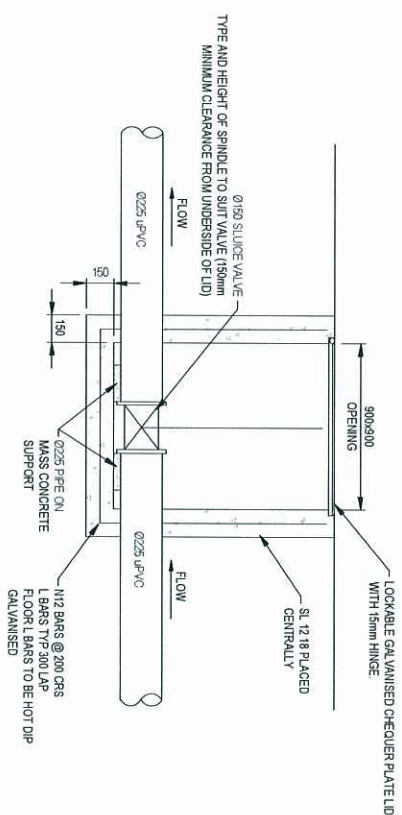




SECTION X-X



SECTION Y-Y



PLANS AND DOCUMENTS referred to in the PDA APPROVAL

17 DEC 2013

MEDQ

DWG	BIORETENTION OUTFLOW PIT DETAIL SCALE 1:20 (A1) - SCALE 1:40 (A3)
D0003	

DWG
D0003

DEWATERING PIT DETAIL

SCALE 1:20 (A1) - SCALE 1:40 (A3)

To

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GOLD COAST PARKLANDS

DETAILS

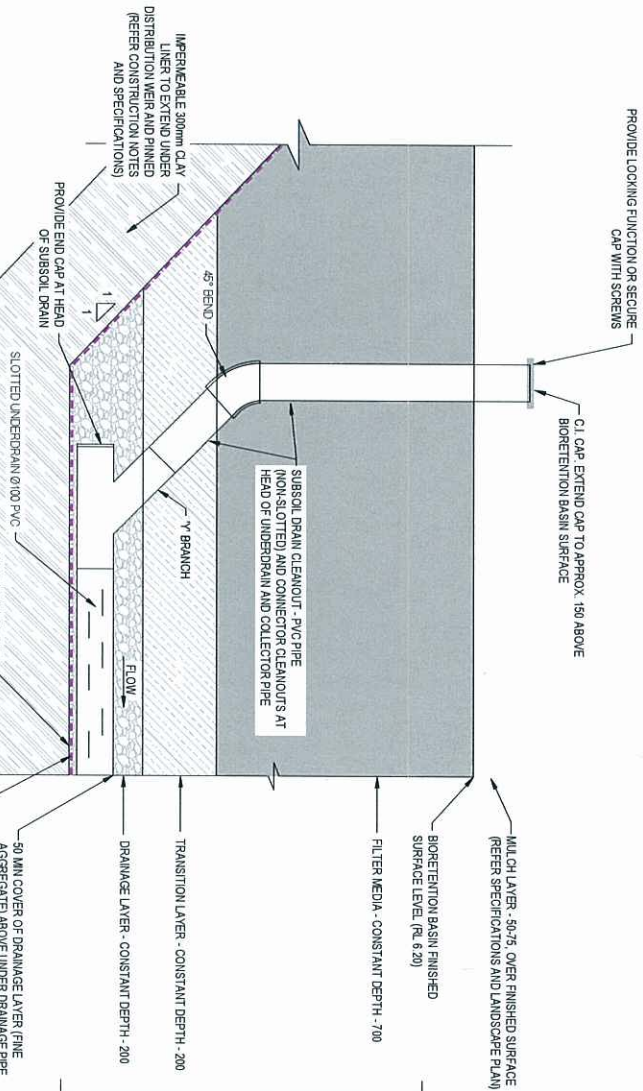
PAGE 2 of 3

AS SHOWN

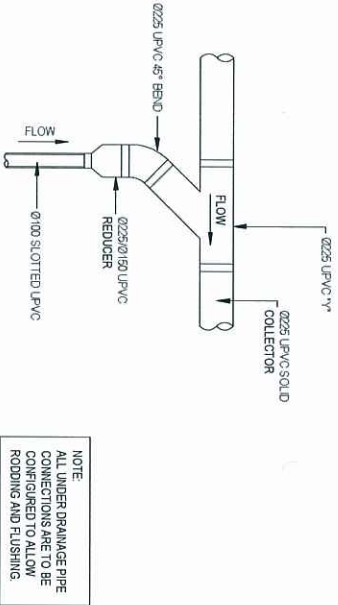
A1

4209

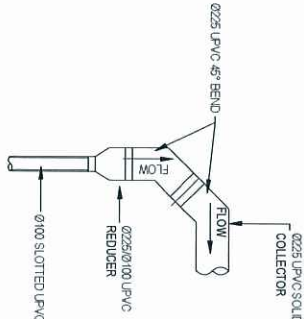
PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
17 DEC 2013
MEDQ



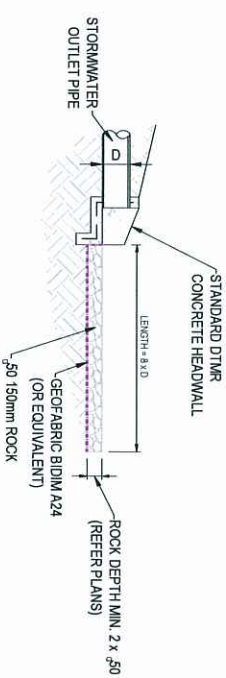
UNDERDRAIN CLEANOUT RISER
SCALE 1:100 (A1)



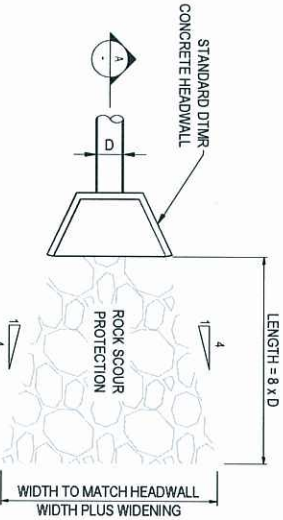
BIORETENTION MID-SECTION CONNECTION
Ø150 SLOTTED UPVC TO Ø300 UPVC COLLECTOR
SCALE 1:250 (A1)



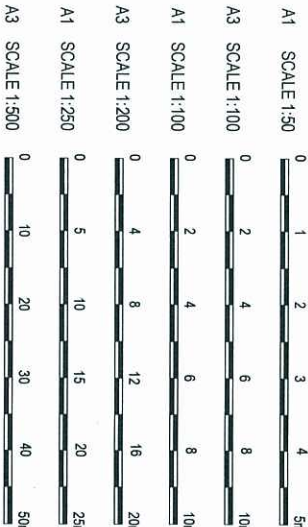
BIORETENTION END-SECTION CONNECTION
Ø150 SLOTTED UPVC TO Ø300 UPVC COLLECTOR
SCALE 1:250 (A1)



ROCK SCOUR PROTECTION - TYPICAL DETAIL
SCALE 1:50 (A1)



ROCK SCOUR PROTECTION - PLAN VIEW
SCALE 1:50 (A1)



REVISION	DESCRIPTION	DRAFTED	APPROVED
A	PRELIMINARY ISSUE	SL 17.07.13	SL 17.07.13
B	MINOR EDIT TO TEXT ON UNDERDRAIN SECTION	SL 27.11.13	SL 27.11.13

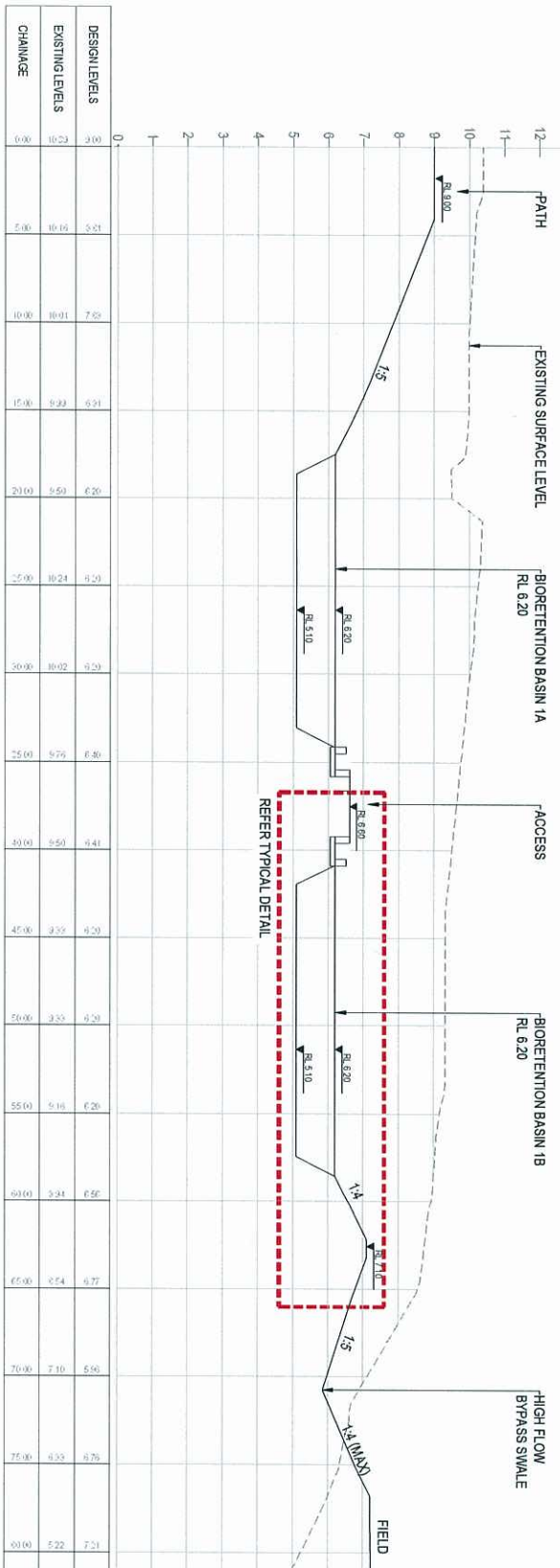
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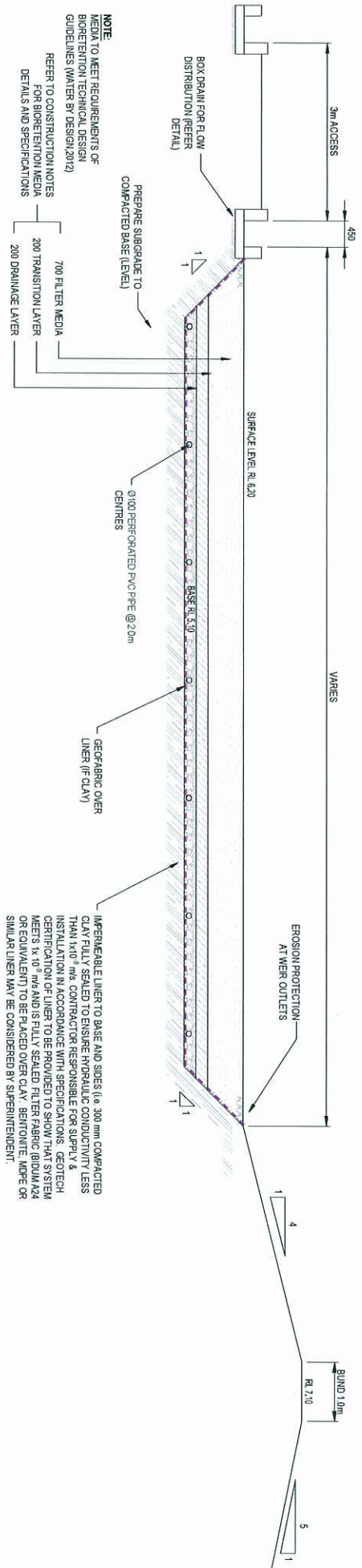
CLIENT	DEPT. OF STATE DEVELOPMENT, INFRASTRUCTURE & PLANNING
DRAWN	MM
DATE	27.11.13
DESIGNED	SL
DATE	27.11.13
SCALE	AS SHOWN

DRAWING TITLE	
GOLD COAST PARKLANDS	
DETAILS	
PAGE 3 of 3	
PROJECT No	4209
DRAWING No	D0103

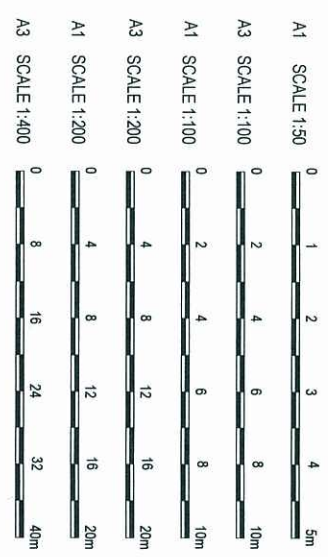


SECTION A
HOR SCALE 1:200
VER SCALE 1:100
D0004

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL
17 DEC 2013
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BIO RETENTION BASIN - TYPICAL SECTION
SCALE 1:150 (A1)



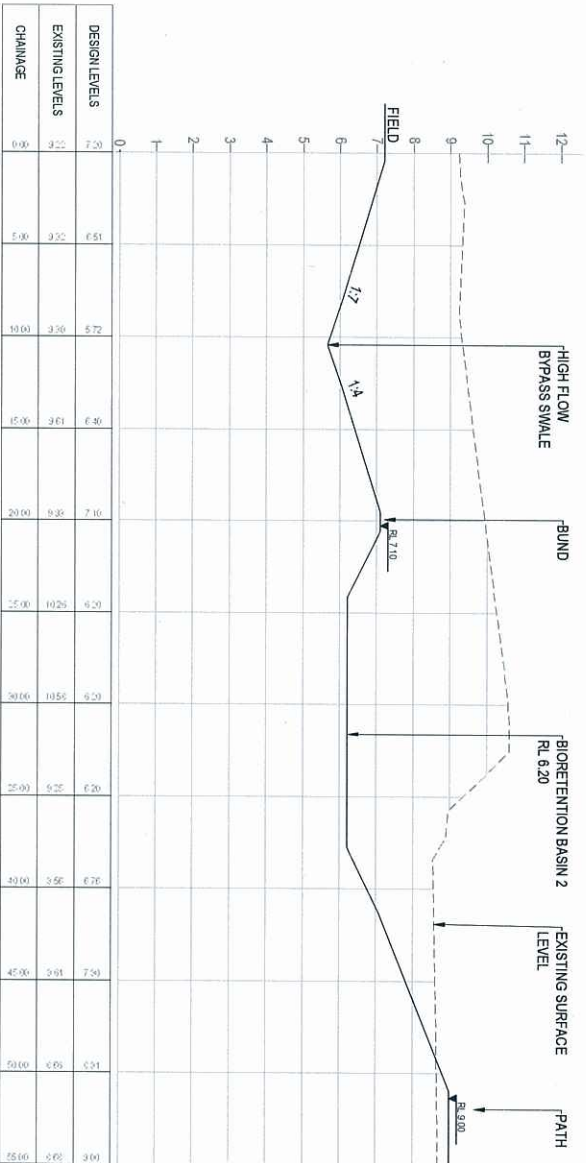
REVISION	DESCRIPTION	DATE	BY	APP
1	ISSUED FOR PRELIMINARY NOT FOR CONSTRUCTION	27/11/13	SL	SL
2	DESIGN	17/07/13	SL	SL
3	DESIGN	17/07/13	SL	SL

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PRELIMINARY
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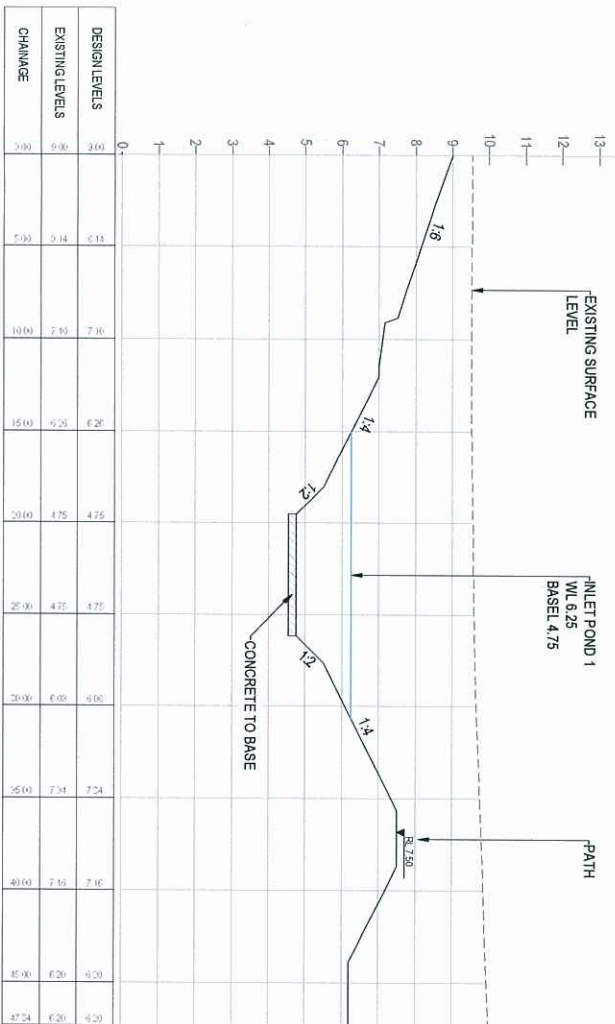
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CLIENT	DEPT. OF STATE DEVELOPMENT, INFRASTRUCTURE & PLANNING	PROJECT	GOLD COAST PARKLANDS
DESIGN	MJM	DATE	27/11/13
DESIGNED	SL	DATE	27/11/13
SCALE	AS SHOWN	PROJECT NO.	4209
		DRAWING NO.	D0201
		REVISION	B

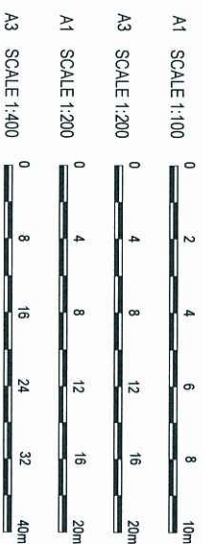


SECTION B
HOR SCALE 1:200
VER SCALE 1:100
D0004



SECTION C
HOR SCALE 1:200
VER SCALE 1:100
D0004

PLANS AND DOCUMENTS
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REVISION	DESCRIPTION	DRAWN	CHECKED	DATE
A	PRELIMINARY ISSUE	SL	SL	17.07.13
B	MINOR TEXT EDIT	SL	SL	27.11.13

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DRAWN	MM	DATE	27.11.13
DESIGNED	SL	DATE	27.11.13
SCALE	AS SHOWN	PROJECT No	4209
		DRAWING No	D0202
		REVISION	B

GOLD COAST PARKLANDS REDEVELOPMENT LOT 460 ON SP222438 - CNR SMITH STREET & PARKLANDS DRIVE, SOUTHPORT WATER SENSITIVE URBAN DESIGN

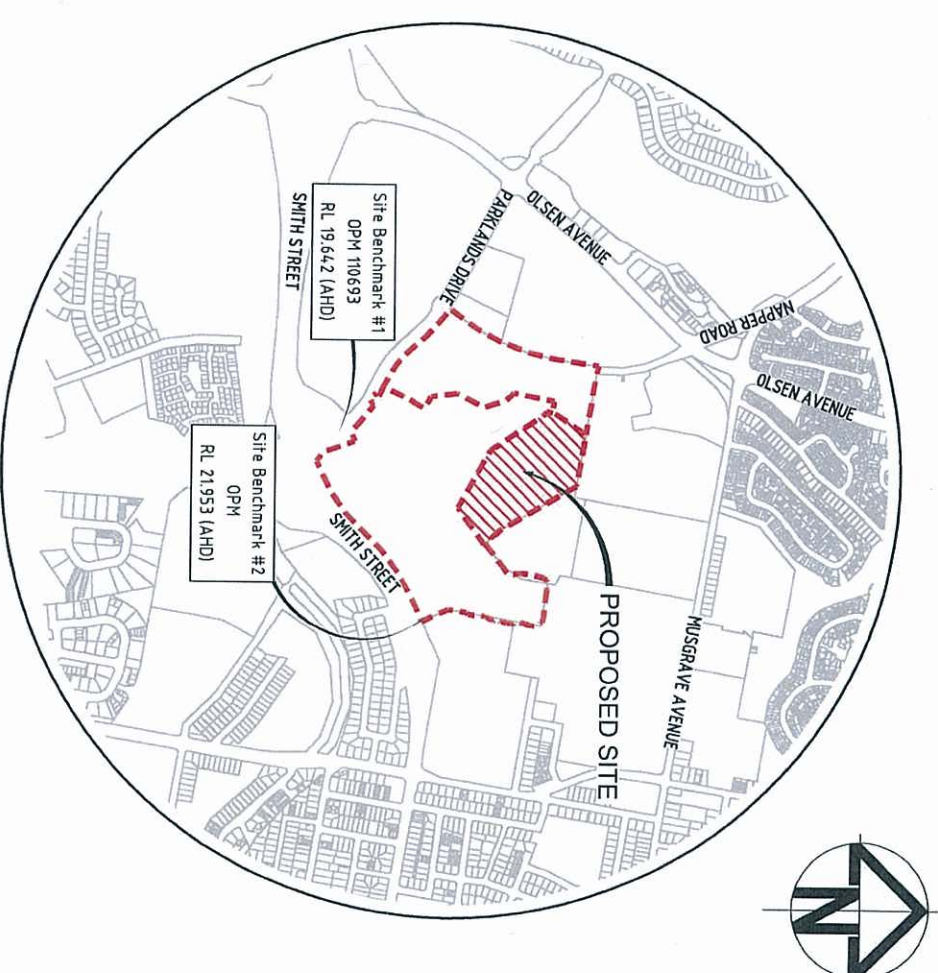
CIVIL ENGINEERING WORKS

FOR : ECONOMIC DEVELOPMENT QUEENSLAND

DRAWING SCHEDULE

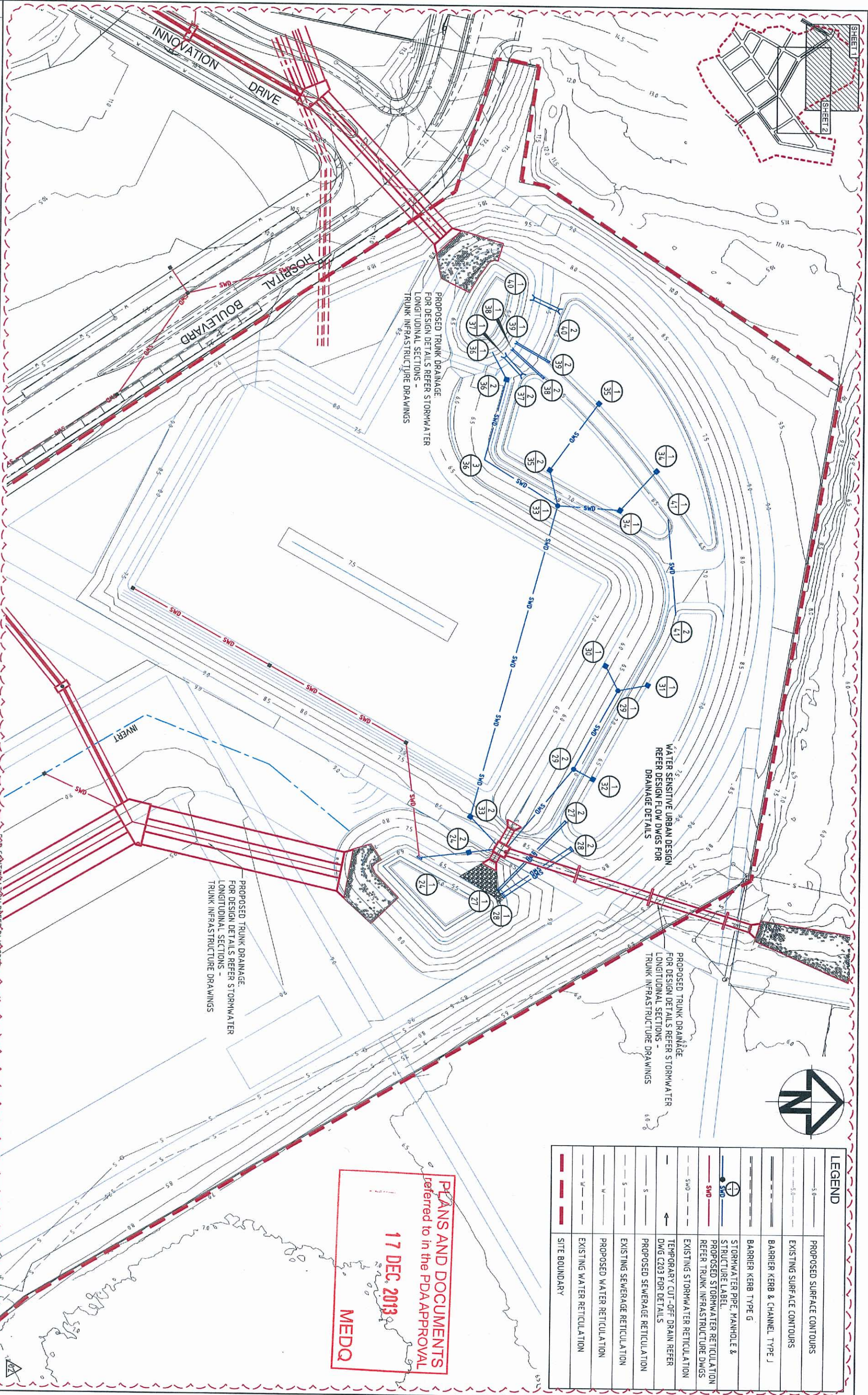
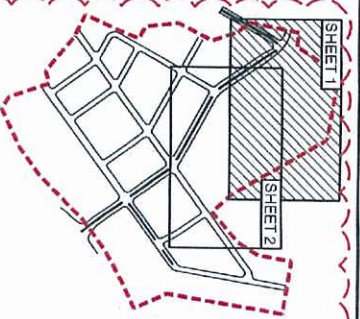
DWG. NO.	DESCRIPTION
C300 - AA005621	DRAWING SCHEDULE & LOCALITY PLAN
C301 - AA005621	STORMWATER SETOUT PLAN - SHEET 1 OF 2
C302 - AA005621	STORMWATER SETOUT PLAN - SHEET 2 OF 2

PLANS AND DOCUMENTS
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17 DEC 2013
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LOCALITY PLAN
SCALE 1:10000

01 ISSUE FOR OPW APPROVAL		BD	14/09/13	Scale		0 100 200 400 600 800 1000m		1 : 10000	
P1 PRELIMINARY ISSUE		BD	18/09/13	Architect		ARCHIPELAGO		Filename: C300-AA005621-DWGSCHE.DWG	
Issue Description		Author	Date	Surveyor		Client		Status	
				BENNETT+BENNETT Property Consultants, Surveyors & Town Planners Attn: Mr. P. O. Box 5021, QLD, 4215 Tel: (07) 5591 4778 Fax: (07) 5591 4778 Email: info@bennettbennett.com.au		Queensland Government DEPARTMENT OF STATE DEVELOPMENT, INFRASTRUCTURE & PLANNING		FOR APPROVAL NOT FOR CONSTRUCTION Approved: <i>[Signature]</i> R.E.P. No. 8677 Scales: 1:10000 Original: A1 Height: AHD Grid: MGA	
Project		Title		Drawing No.		Project No.		Issue	
GOLD COAST PARKLANDS REDEVELOPMENT WATER SENSITIVE URBAN DESIGN		DRAWING SCHEDULE & LOCALITY PLAN		C300 - AA005621		AA005621 - 01		Issue	
Hyder		Hyder CONSULTING PTY. LTD ABN 76 104 483 289 P O Box 1653 Southport, QLD 4215 Australia Tel: +61 (07) 5592 3933 Fax: +61 (07) 5591 4778 www.hyderconsulting.com							



LEGEND	
---	PROPOSED SURFACE CONTOURS
---	EXISTING SURFACE CONTOURS
---	BARRIER KERB & CHANNEL TYPE J
---	BARRIER KERB TYPE G
---	STORMWATER PIPE, MANHOLE & STRUCTURE LABEL
---	PROPOSED STORMWATER RETICULATION REFER TRUNK INFRASTRUCTURE DWGS
---	EXISTING STORMWATER RETICULATION
---	TEMPORARY CUT-OFF DRAIN REFER DWG C203 FOR DETAILS
---	PROPOSED SEWERAGE RETICULATION
---	EXISTING SEWERAGE RETICULATION
---	PROPOSED WATER RETICULATION
---	EXISTING WATER RETICULATION
---	SITE BOUNDARY

PLANS AND DOCUMENTS referred to in the PDA APPROVAL

17 DEC. 2013

MEDQ

Issue Description		Author	Date
P1 PRELIMINARY ISSUE		BD	18/09/13
01 ISSUE FOR PDA APPROVAL		BD	14/10/13
02 LAYOUT AMENDED		BD	28/11/13

Scale	0 5 10 20 30 40 50m
1:500	

Architect	Archipelago
Filename	C301-C302-AA005621-SWD SETOUT DWG

Surveger	BENNETT + BENNETT Property Consultants, Surveyors & Town Planners Attn: Mr. P. Bennett, 60/21, QLD 4070 P.O. Box 1000, QLD 4070 Tel: 07 5533 4477 Fax: 07 5533 4478 Email: info@bennett-bennett.com.au
Client	Queensland Government DEPARTMENT OF STATE DEVELOPMENT, INFRASTRUCTURE & PLANNING
Status	FOR APPROVAL NOT FOR CONSTRUCTION
Approved	8677
Current Issue Signatures	Author: B. DAYLEY Designer: T. DINGLE Reviewer: B. HODGSON
Original	A1
Height	AHD
Grid	MGA
Copyright	28/Nov/2013 9:38 AM

Project	GOLD COAST PARKLANDS REDEVELOPMENT WATER SENSITIVE URBAN DESIGN
Title	STORMWATER SETOUT PLAN - SHEET 1 OF 2

Drawing No.	C301 - AA005621 - 02
Project No.	
Issue	

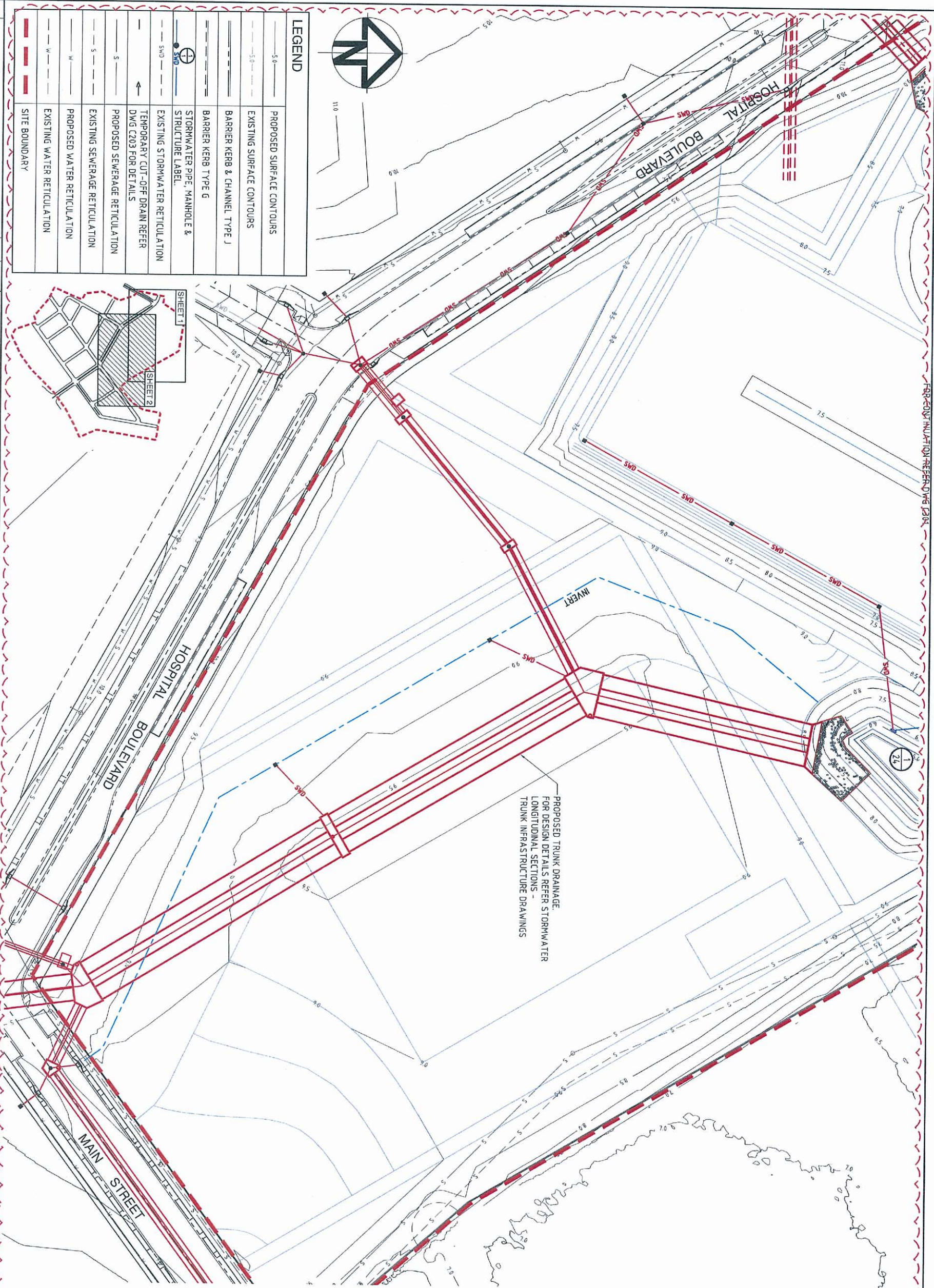
Hyder	HYDER CONSULTING PTY. LTD ABN 18 154 485 289 P.O. Box 1653 Southport, QLD 4215 Australia Tel: +61 07 5533 3833 Fax: +61 07 5533 4778 www.hyderconsulting.com
-------	---

STORMWATER SETOUT TABLE		
POINT	EASTING	NORTHING
1/24	538063.116	6907298.223
2/24	538058.264	6907312.681
1/27	538068.956	6907321.304
2/27	538049.256	6907340.180
1/28	538070.452	6907322.667
2/28	538057.134	6907341.841
1/29	538011.568	6907354.859
2/29	538034.098	6907342.407
1/30	538004.563	6907351.218
1/31	538009.953	6907363.297
1/32	538036.931	6907347.908
1/33	537958.808	6907337.107
2/33	538047.994	6907313.039
1/34	537948.688	6907365.199
2/34	537959.956	6907354.915
1/35	537929.550	6907348.605
2/35	537948.627	6907334.788
1/36	537915.101	6907318.055
2/36	537922.872	6907322.133
3/36	537945.862	6907316.051
1/37	537916.435	6907321.787
2/37	537921.399	6907326.447
1/38	537914.345	6907323.876
2/38	537922.314	6907332.687
1/39	537912.411	6907325.009
2/39	537917.716	6907334.226
1/40	537899.127	6907329.790
2/40	537902.909	6907336.782
1/41	537962.437	6907368.651
2/41	537989.750	6907371.107

PLANS AND DOCUMENTS
referred to in the PDA APPROVAL

17 DEC 2013

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02

LAYOUT AMENDED

90

28/11/13

01

ISSUE FOR COW APPROVAL

80

14/10/13

01

PRELIMINARY ISSUE

80

18/09/13

Issue

Description

Author

Date

Scale

0 5 10 20 30 40 50m

1 : 500

Supervisor

BENNETT + BENNETT
Planning Consultants, Surveyors & Town Planners
Attn: Mr. J. Bennett
100/102, 5021 GCMC, QLD 4770
Ph: (07) 5592 4422
Fax: (07) 5592 4422

Architect

ARCHIPELAGO
C302-C302-AA005621-SWD SETOUT DWG

Client

Queensland Government
DEPARTMENT OF STATE
DEVELOPMENT, INFRASTRUCTURE
& PLANNING

Status

FOR APPROVAL
NOT FOR CONSTRUCTION

Approved

[Signature]

8677

Current Issue Signatures

Author

3DAVEY

Designer

T.DINGLE

Reviewer

B.TIMPSON

Project

**GOLD COAST
PARKLANDS REDEVELOPMENT
WATER SENSITIVE URBAN DESIGN**

Title

**STORMWATER SETOUT
PLAN - SHEET 2 OF 2**

Drawing No

C302

Project No

AA005621

Issue

02

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