

CHANNEL 2

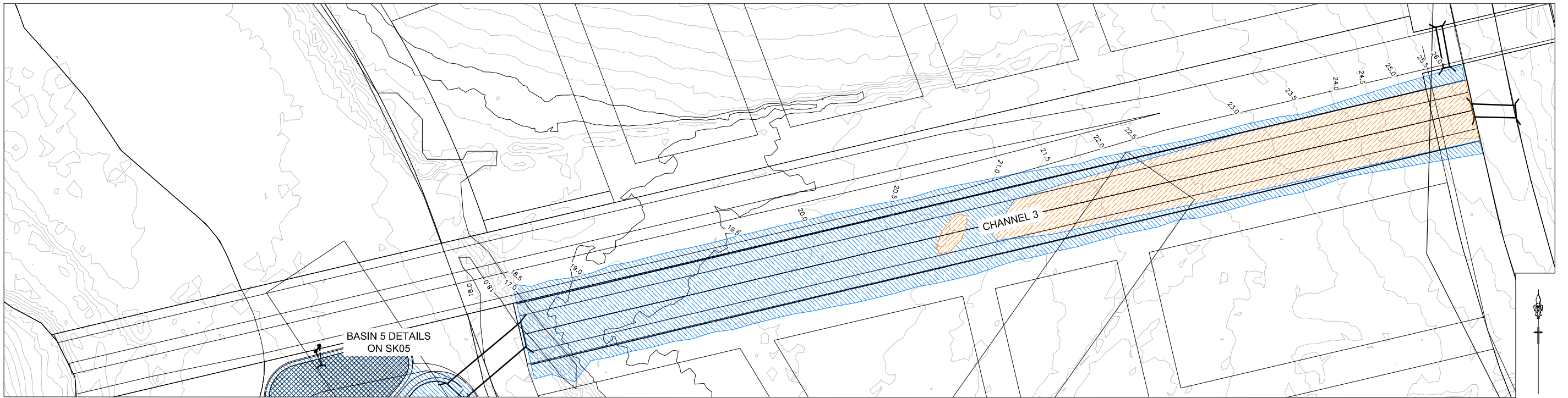
CHANNEL 2

EXTENT OF FILL - 1425mj

EXTENT OF CUT - 13270mj

GPT & OUTLET PIT

NOTE: ALL BATTERS ARE 1:4



CHANNEL 3

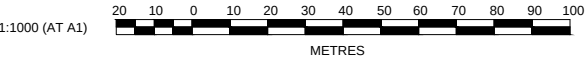
CHANNEL 3

EXTENT OF FILL - 17500mj

EXTENT OF CUT - 3060mj

GPT & OUTLET PIT

NOTE: ALL BATTERS ARE 1:4



Plotted: 16 March, 2012 3:12:24 PM File Name: X:\8980\Drawings\SKW - Concept Sketch Designs\8980SK09.dwg

B	Channels 2 & 3 Deleted, Channels Renamed & Relocated	DG	DP						
A	FIRST ISSUE	JC	PSC						
	AMENDMENT	DES	DRN	CKD	APR	DATE			

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AZIMUTH: MGA
DATUM: AHD
ORIGIN:

CLIENT:

Planning & Infrastructure

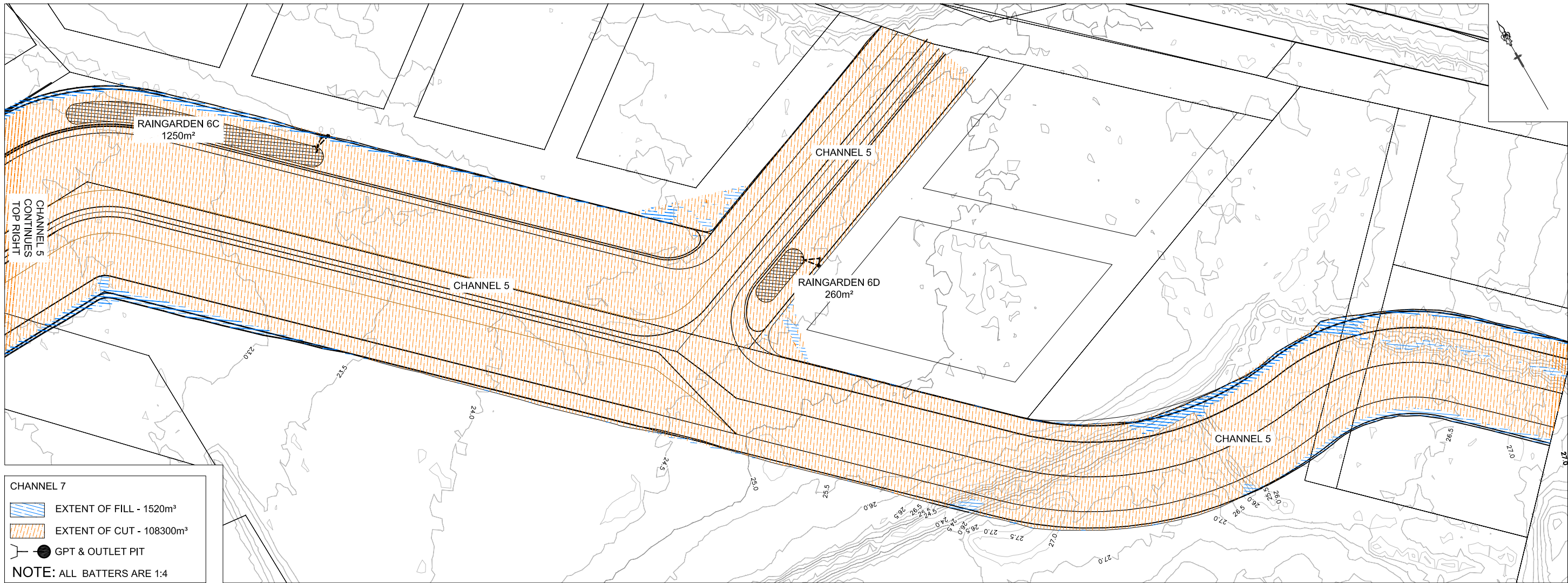
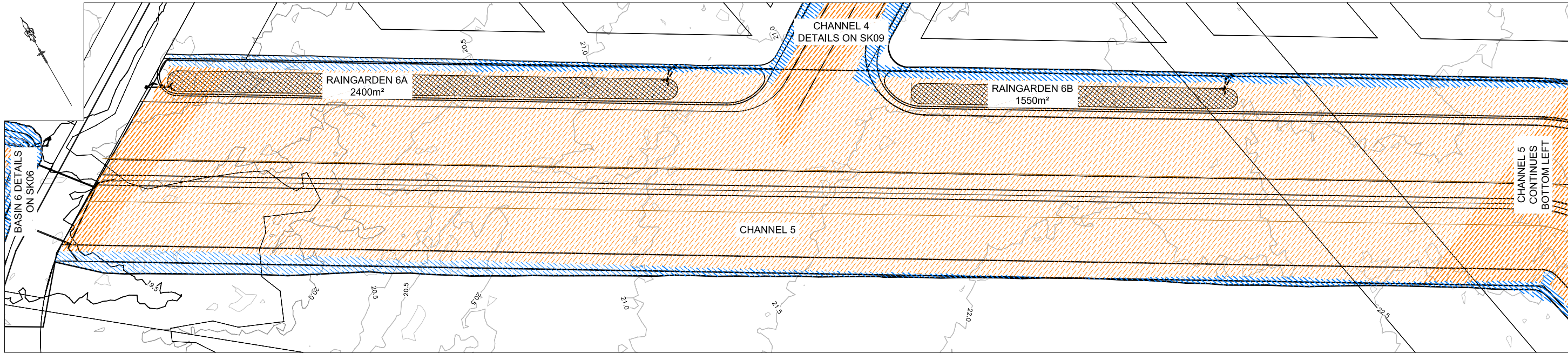
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SCHOFIELDS PRECINCT

CHANNELS 2 & 3

PLAN No:	8980/SK09	B
FILE No:	8980SK09	
SHEET SIZE:	A1 ORIGINAL	



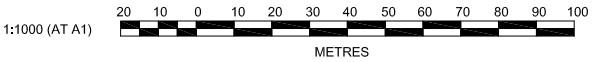
CHANNEL 7

 EXTENT OF FILL - 1520m³

 EXTENT OF CUT - 108300m³

 GPT & OUTLET PIT

NOTE: ALL BATTERS ARE 1:4



B	Channel 7 Renamed Channel 5 and Raingarden added	DG	DP						
A	FIRST ISSUE	JC	PSC						
	AMENDMENT	DES	DRN	CKD	APR	DATE			

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CHANNEL 5

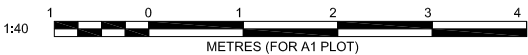
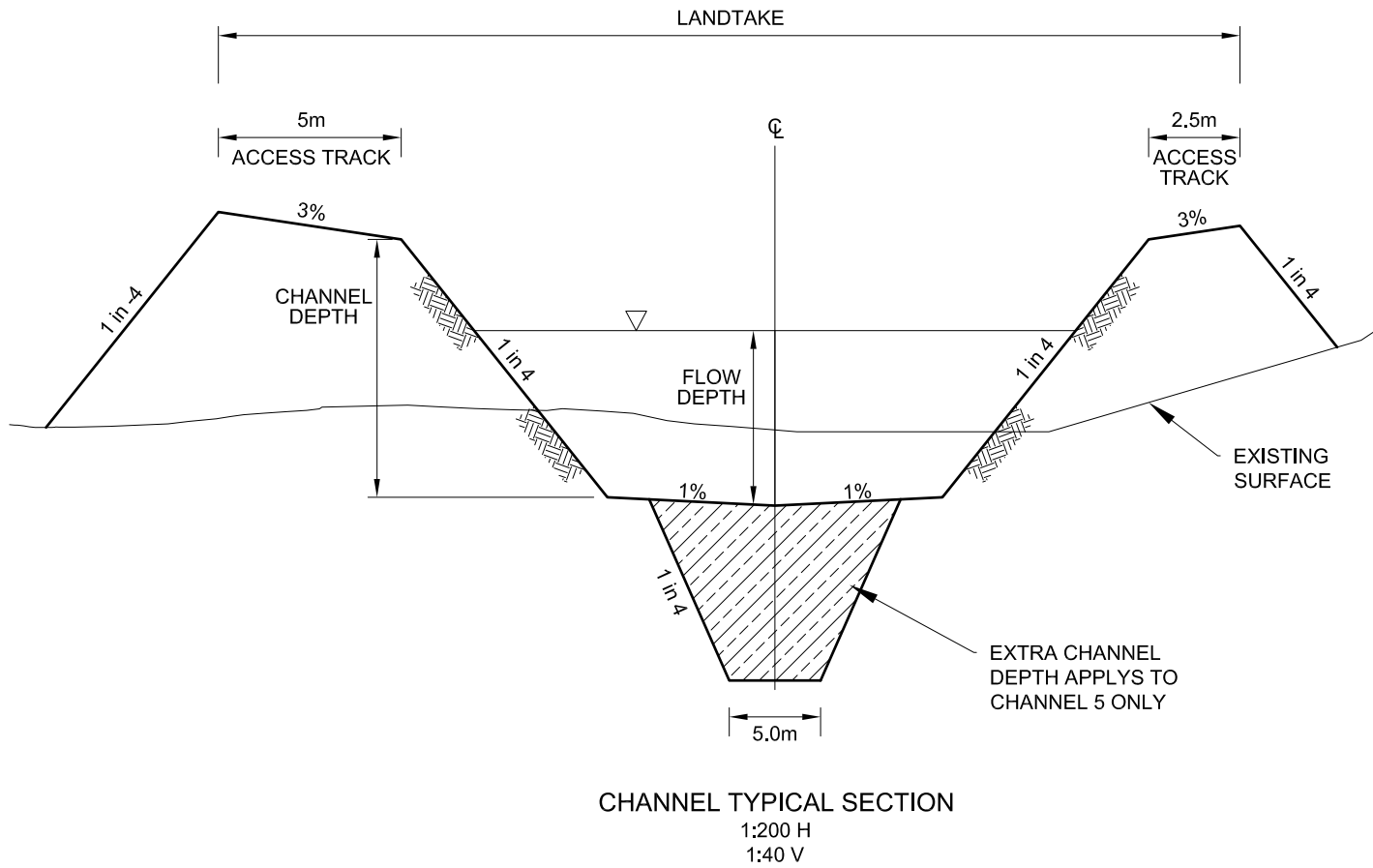
PLAN No: 8980/SK11 **B**

FILE No: 8980SK11

SHEET SIZE: A1 ORIGINAL

Project: 19 March, 2012 3:10:09 PM File Name: X:\8980\Drawings\SKW - Concept Sketch Designs\8980SK11.dwg

Channel	Channel Length (m)	Channel Grade (%)	Manning's n	Base Width (m)	Batter Slope (H: 1V)	100yr Design Flow (m³/s)	Flow Depth (m)	Freeboard (m)	Channel Depth (m)	Channel Width (m) Hydraulic Conveyance	Overall Width (m)	Maintenance Provisions (looking downstream)	
												5m wide Major Access	2.5m wide Minor Access
TC1	Existing												
TC2	530	1.6%	0.07	18.0	4	19.6	1.0	0.5	0.9	25.0	30	Internal Road at Left	Right
TC3	450	0.9%	0.07	19.5	4	4.1	1.0	0.5	1.1	20.0	30	Internal Road at Left	Right
TC4	600	0.7%	0.07	25.0	4	13.0	1.0	0.5	1.5	27.0	40	Internal Road at Left	Major Road at Right
TC5	730	0.3%	0.07	85.0	4	126	4.0	0.5	4.5	95.0	100	Internal Road at Left	Internal Road at Right



B	Typical Section Ammended	DG	DP						
A	FIRST ISSUE	JC	PSC						
	AMENDMENT	DES	DRN	CKD	APR	DATE			

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DATUM: AHD
ORIGIN:

CLIENT:



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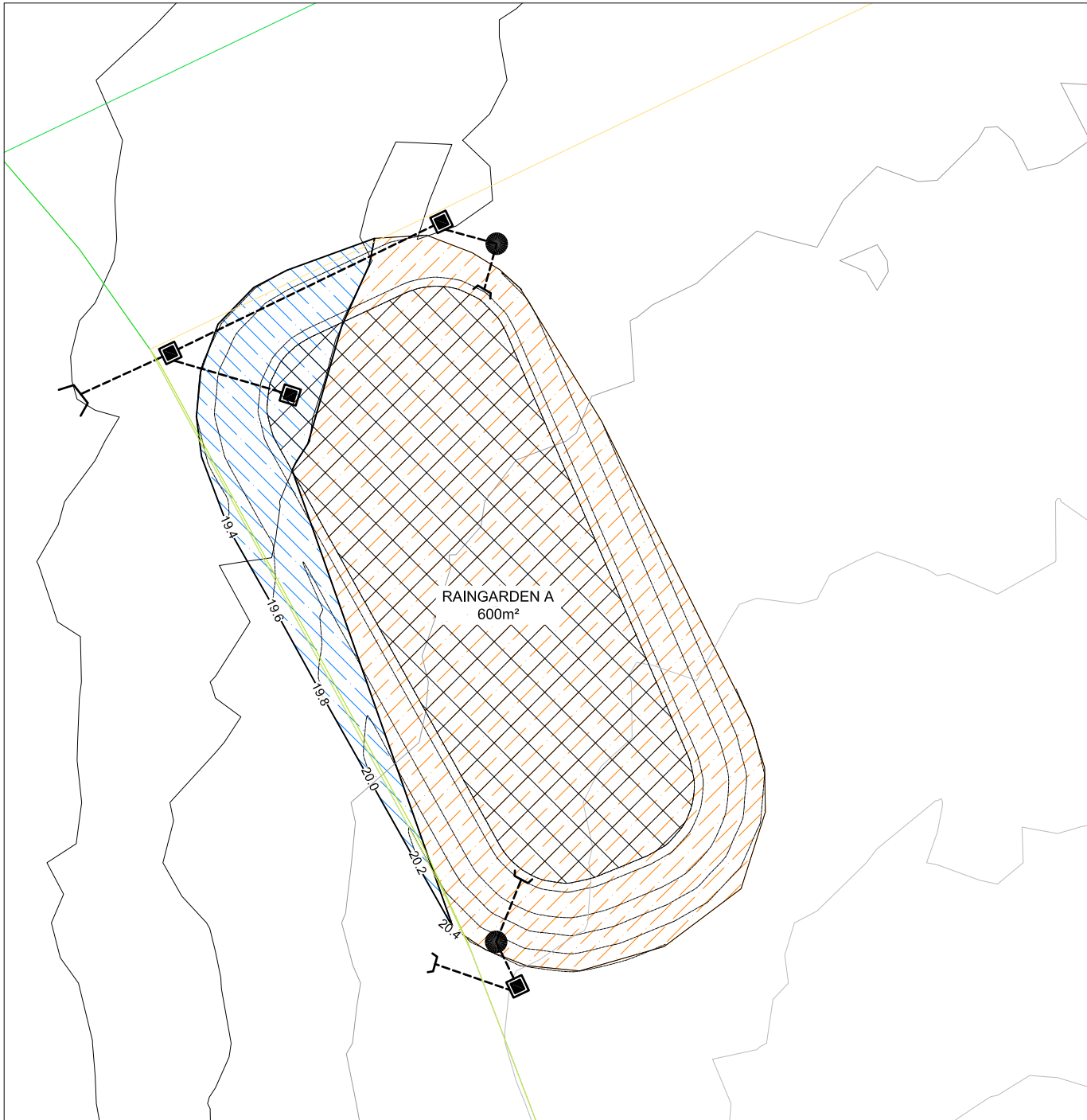
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SCHOFIELDS PRECINCT

TYPICAL CHANNEL SECTION
& CHANNEL SUMMARY

PLAN No:	8980/SK12	B
FILE No:	8980SK12	
SHEET SIZE:	A1 ORIGINAL	

Project: 19 March, 2012 3:11:42 PM File Name: X:\8980\Drawings\SKW - Concept Sketch Designs\8980SK13.dwg



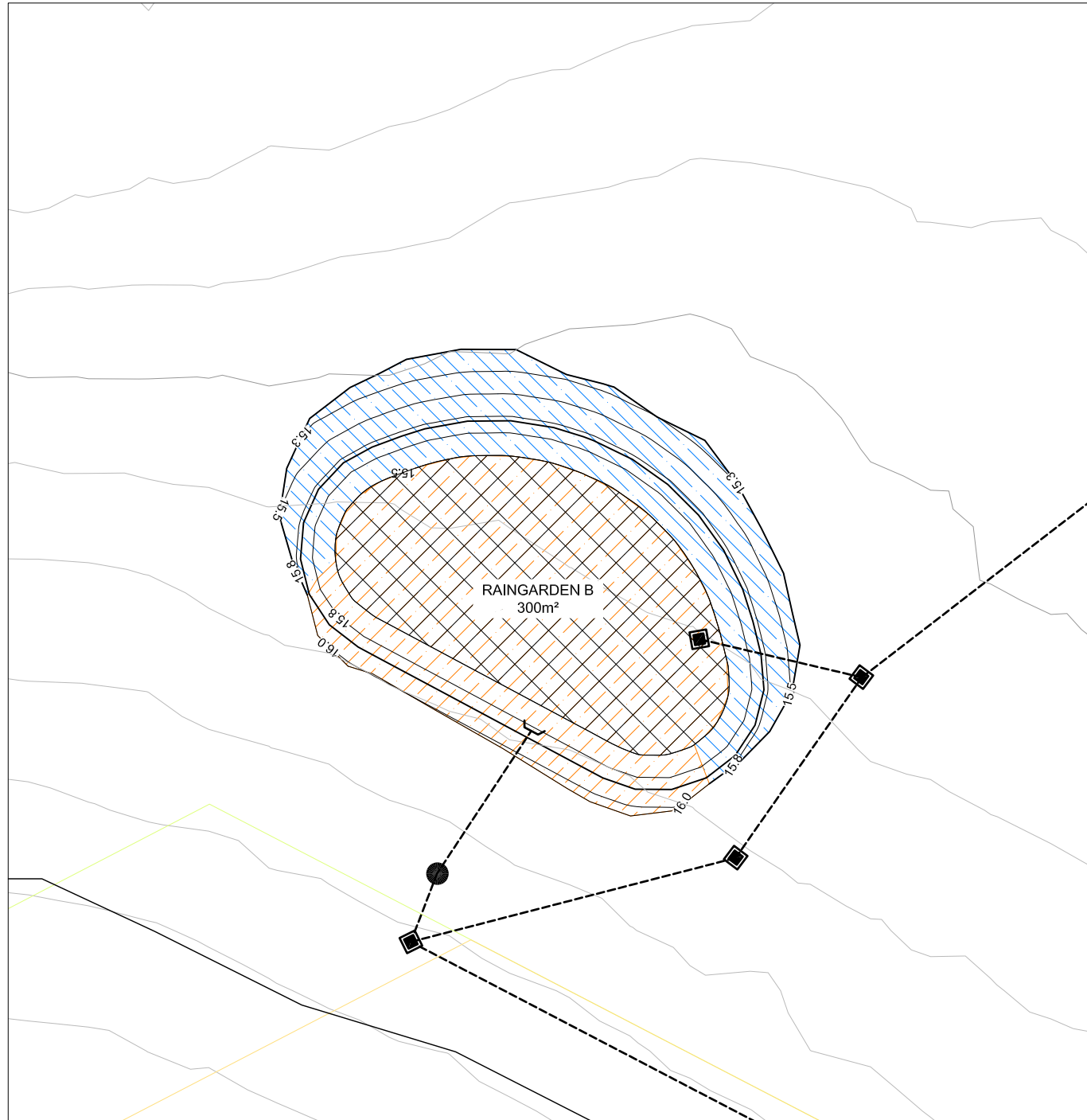
RAINGARDEN A

RAINGARDEN A

AREA = 425m²
IL = 19.5
EDL = 19.8

EXTENT OF FILL - 140m³
 EXTENT OF CUT - 880m³
 APPROXIMATE EXTENT OF RAINGARDEN
—●— GPT & OUTLET PIT

NOTE: ALL BATTERS ARE 1:6 MAX



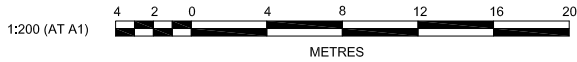
RAINGARDEN B

RAINGARDEN B

AREA = 225m²
IL = 15.5
EDL = 15.8

EXTENT OF FILL - 80m³
 EXTENT OF CUT - 260m³
 APPROXIMATE EXTENT OF RAINGARDEN
—●— GPT & OUTLET PIT

NOTE: ALL BATTERS ARE 1:6 MAX



B	Raingarden Sizes Amended	DG	DP						
A	FIRST ISSUE	JC	PSC						
	AMENDMENT	DES	DRN	CKD	APR	DATE			

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AZIMUTH: MGA
DATUM: AHD
ORIGIN:



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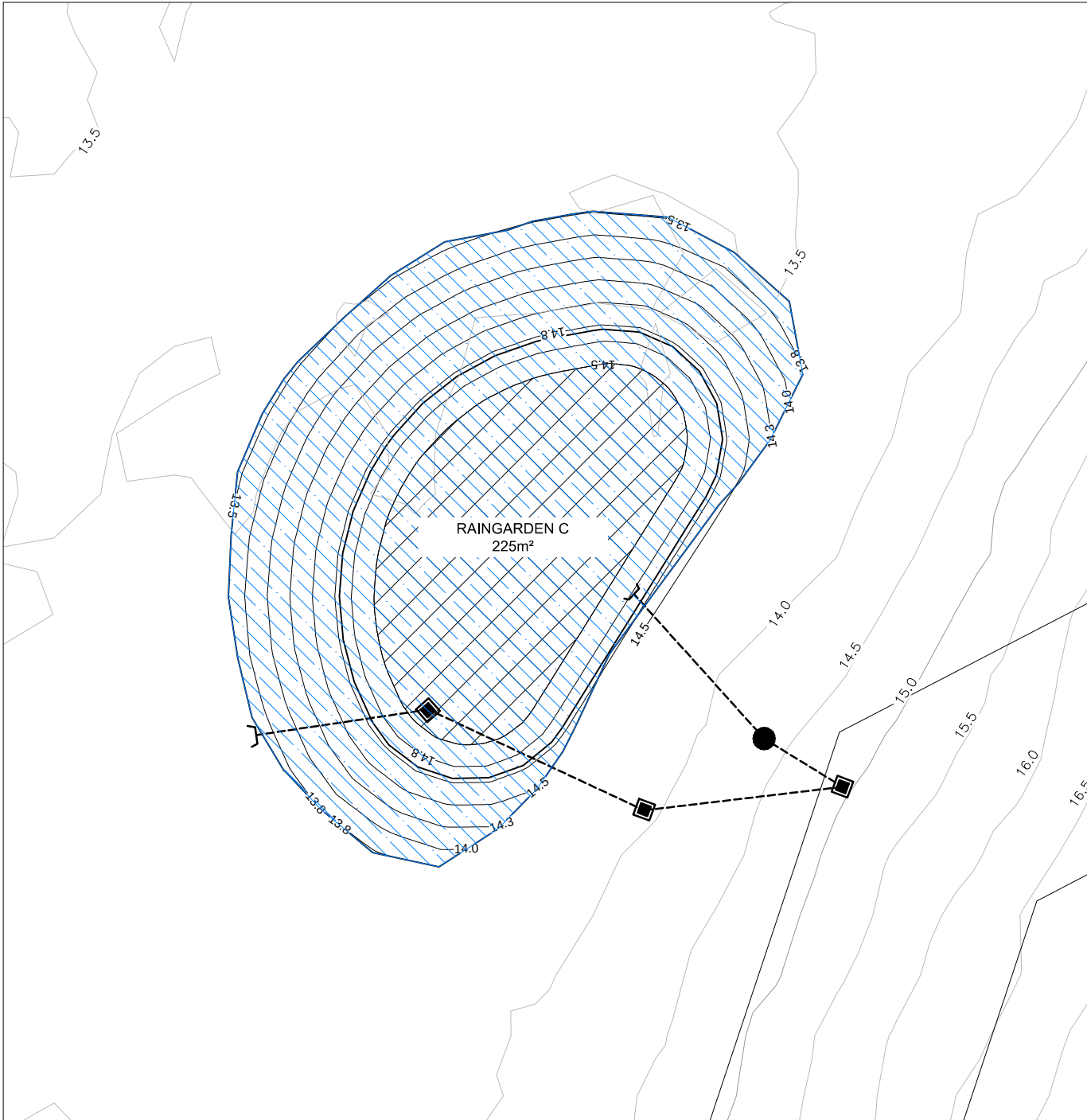
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RAINGARDENS A & B

PLAN No:	8980/SK13	B
FILE No:	8980SK13	
SHEET SIZE:	A1 ORIGINAL	

Plotted: 16 March, 2012 3:13:41 PM File Name: X:\8980\Drawings\SKW - Concept Sketch Designs\8980SK14.dwg



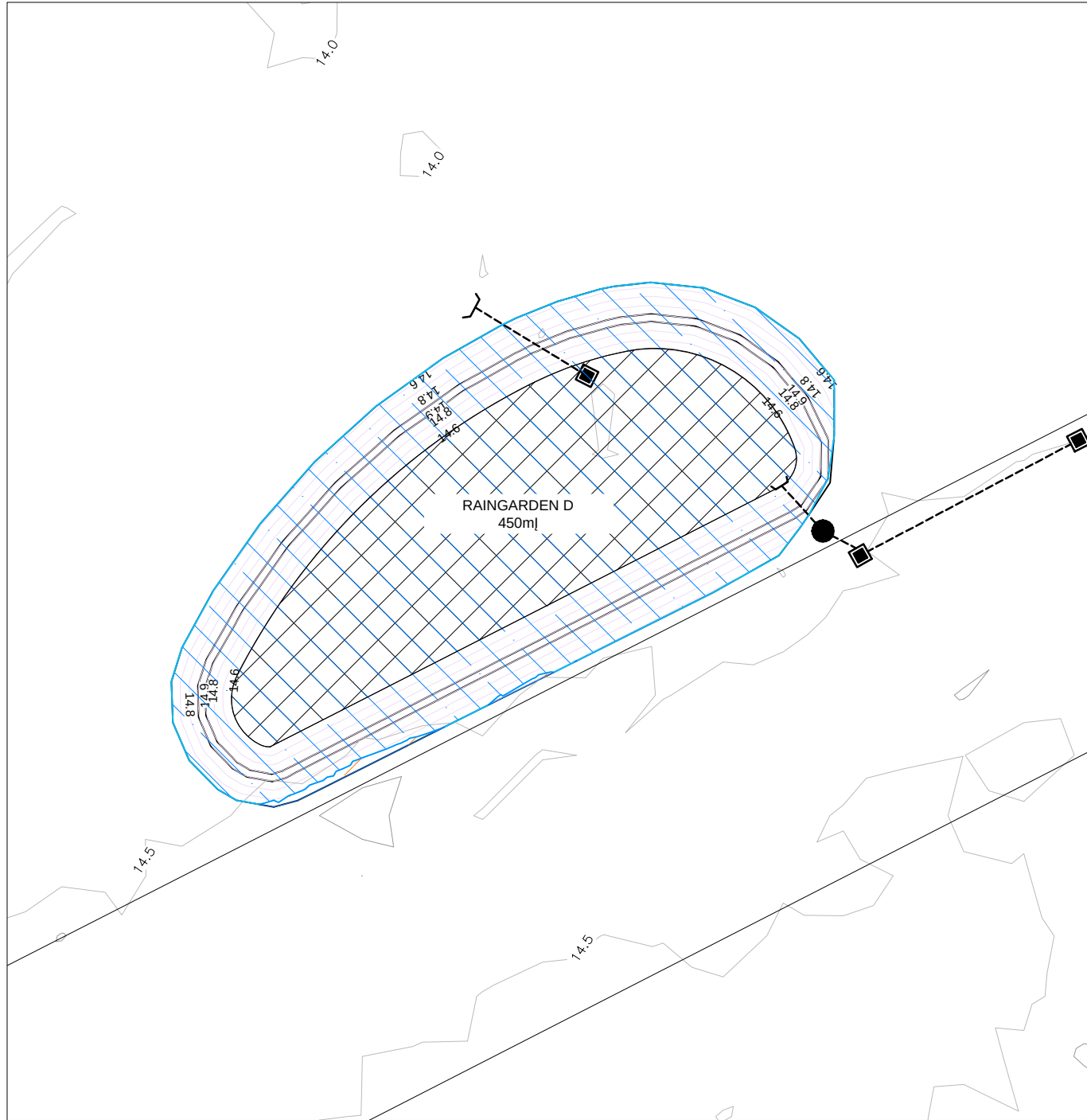
RAINGARDEN C

RAINGARDEN C

AREA = 225m²
IL = 14.5
EDL = 14.8

 EXTENT OF FILL - 860m³
 EXTENT OF CUT - 0m³
 APPROXIMATE EXTENT OF RAINGARDEN
 GPT & OUTLET PIT

NOTE: ALL BATTERS ARE 1:6 MAX



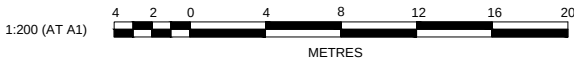
RAINGARDEN D

RAINGARDEN D

AREA = 450m²
IL = 15.2
EDL = 15.5

 EXTENT OF FILL - 430m³
 EXTENT OF CUT - 1m³
 APPROXIMATE EXTENT OF RAINGARDEN
 GPT & OUTLET PIT

NOTE: ALL BATTERS ARE 1:6 MAX



B	RAINGARDEN SIZES AMENDED	DG	DP						
A	FIRST ISSUE	JC	PSC						
	AMENDMENT	DES	DRN	CKD	APR	DATE			

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DATUM: AHD
ORIGIN:

CLIENT:



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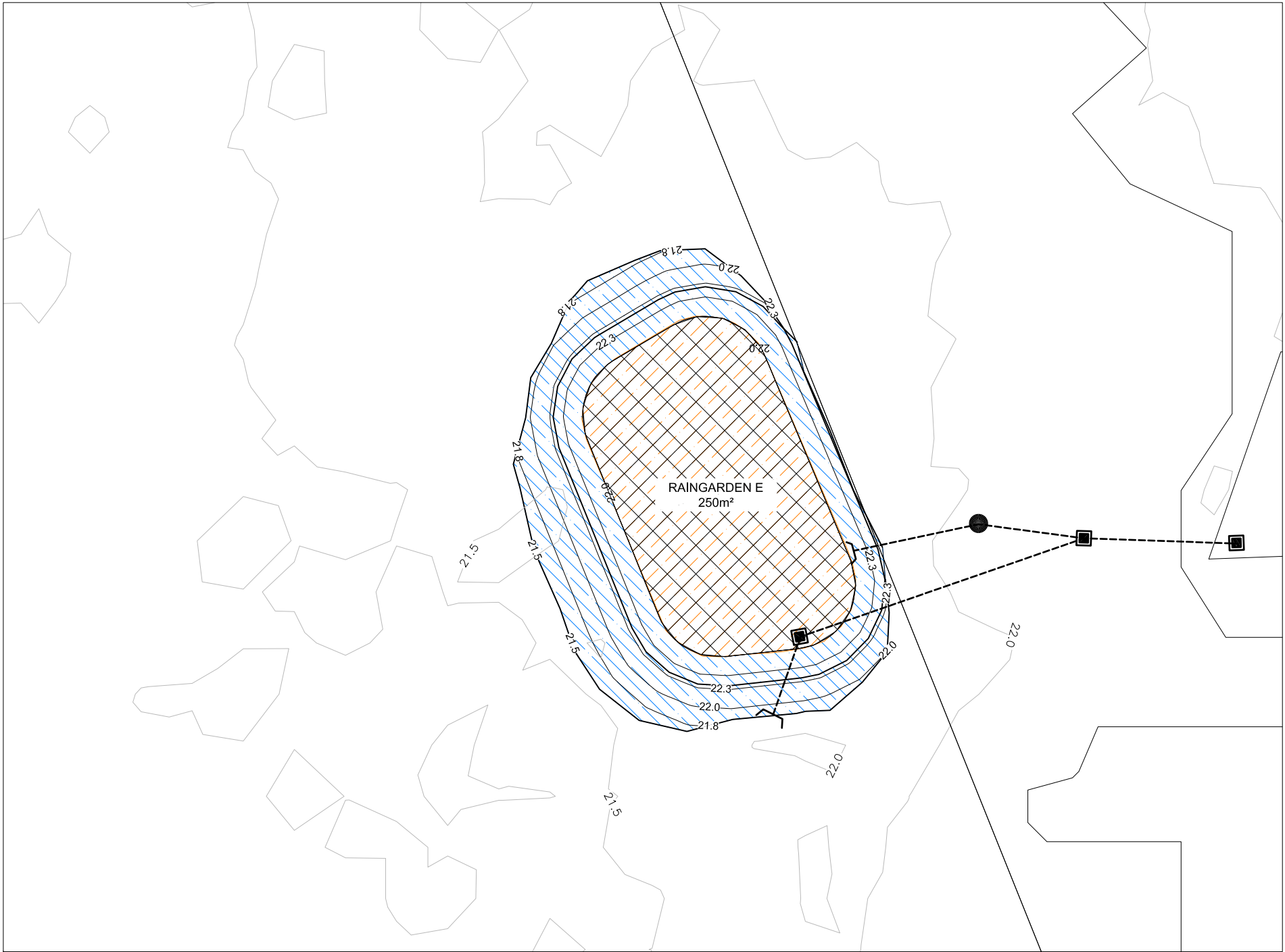
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SCHOFIELDS PRECINCT

RAINGARDENS C & D

PLAN No: 8980/SK14 **B**
FILE No: 8980SK14
SHEET SIZE: A1 ORIGINAL



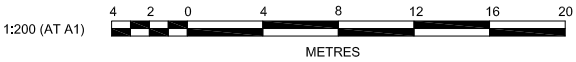
RAINGARDEN E

RAINGARDEN E

AREA = 250m²
IL = 22.0
EDL = 22.3

EXTENT OF FILL - 180m³
 EXTENT OF CUT - 140m³
 APPROXIMATE EXTENT OF RAINGARDEN
 GPT & OUTLET PIT

NOTE: ALL BATTERS ARE 1:6 MAX



B	Raingarden E Deleted and Raingarden F Renamed	DG	DP			
A	FIRST ISSUE	JC	PSC			
	AMENDMENT	DES	DRN	CKD	APR	DATE

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RAINGARDENS E

PLAN No:	8980/SK15	B
FILE No:	8980SK15	
SHEET SIZE:	A1 ORIGINAL	

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK02****BASIN 1**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BASIN				
	Establishment (5%)	1	item	\$35,000.00	\$35,000.00
	Clearing (Allowance Only)	1	item	\$50,000.00	\$50,000.00
	Strip & stockpile topsoil	6,100	sq.m.	\$1.50	\$9,150.00
	Respread topsoil	5,600	sq.m.	\$2.50	\$14,000.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	2,520	cu.m.	\$5.00	\$12,600.00
	Earthworks - Import material		cu.m.	\$30.00	
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)	1,750	cu.m.	\$75.00	\$131,250.00
	Trim and Compact	6,100	sq.m.	\$1.00	\$6,100.00
	Planting/turfing (incl maintenance for 2 years)	5,600	sq.m.	\$7.50	\$42,000.00
	Reinforced Turfing on Weir and Spillway (incl 2 yr maint)	600	sq.m.	\$25.00	\$15,000.00
	Soil & Water Management (Allowance Only)	1	item	\$25,000.00	\$25,000.00
				SUBTOTAL	\$340,100.00
2	BIO-RETENTION RAINGARDEN				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	500	sq.m.	\$180.00	\$90,000.00
	Raingarden Planting	500	sq.m.	\$45.00	\$22,500.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P0908 GPT and Associated Drainage Infrastructure	1	item	\$38,000.00	\$38,000.00
				SUBTOTAL	\$157,500.00
3	DRAINAGE / STRUCTURES				
	750 dia (RRJ) Outlet (incl. exc., lay & backfill)	50	lin.m.	\$400.00	\$20,000.00
	Main Basin Outlet Structure	1	each	\$7,000.00	\$7,000.00
	Rock Erosion Protection at Culvert Outlet	50	sq.m.	\$250.00	\$12,500.00
				SUBTOTAL	\$39,500.00
TOTAL FOR ITEMS 1, 2 & 3					\$537,100.00
4	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$81,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$618,100.00
5	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$38,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$2,335.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$61,000.00
TOTAL					\$679,100.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK02****BASIN 2**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BASIN				
	Establishment (5%)	1	item	\$80,000.00	\$80,000.00
	Clearing (Allowance Only)	1	item	\$50,000.00	\$50,000.00
	Strip & stockpile topsoil	4,950	sq.m.	\$1.50	\$7,425.00
	Respread topsoil	3,650	sq.m.	\$2.50	\$9,125.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	100	cu.m.	\$5.00	\$500.00
	Earthworks - Import material		cu.m.	\$30.00	
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)	9,200	cu.m.	\$75.00	\$690,000.00
	Trim and Compact	4,950	sq.m.	\$1.00	\$4,950.00
	Planting/turfing (incl maintenance for 2 years)	3,650	sq.m.	\$7.50	\$27,375.00
	Reinforced Turfing on Weir and Spillway (incl 2 yr maint)	600	sq.m.	\$25.00	\$15,000.00
	Soil & Water Management (Allowance Only)	1	item	\$25,000.00	\$25,000.00
				SUBTOTAL	\$909,375.00
2	BIO-RETENTION RAINGARDEN				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	1,300	sq.m.	\$180.00	\$234,000.00
	Raingarden Planting	1,300	sq.m.	\$45.00	\$58,500.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P1009 GPT and Associated Drainage Infrastructure	2	item	\$45,000.00	\$90,000.00
				SUBTOTAL	\$389,500.00
3	DRAINAGE / STRUCTURES				
	1050 dia (RRJ) Outlet (incl. exc., lay & backfill)	100	lin.m.	\$600.00	\$60,000.00
	Main Basin Outlet Structure	1	each	\$7,000.00	\$7,000.00
	Rock Erosion Protection / Energy Dissipator at Outlet	100	sq.m.	\$250.00	\$25,000.00
				SUBTOTAL	\$92,000.00
TOTAL FOR ITEMS 1, 2 & 3					\$1,390,875.00
4	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$209,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$1,599,875.00
5	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$96,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$4,503.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$121,000.00
TOTAL					\$1,720,875.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK03****BASIN 3**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BASIN				
	Establishment (5%)	1	item	\$75,000.00	\$75,000.00
	Clearing (Allowance Only)	1	item	\$50,000.00	\$50,000.00
	Strip & stockpile topsoil	14,000	sq.m.	\$1.50	\$21,000.00
	Respread topsoil	12,300	sq.m.	\$2.50	\$30,750.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	680	cu.m.	\$5.00	\$3,400.00
	Earthworks - Import material	13,390	cu.m.	\$30.00	\$401,700.00
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)		cu.m.	\$75.00	
	Trim and Compact	14,000	sq.m.	\$1.00	\$14,000.00
	Planting/turfing (incl maintenance for 2 years)	12,300	sq.m.	\$7.50	\$92,250.00
	Reinforced Turfing on Weir and Spillway (incl 2 yr maint)	600	sq.m.	\$25.00	\$15,000.00
	Soil & Water Management (Allowance Only)	1	item	\$25,000.00	\$25,000.00
				SUBTOTAL	\$728,100.00
2	BIO-RETENTION RAINGARDEN				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	1,700	sq.m.	\$180.00	\$306,000.00
	Raingarden Planting	1,700	sq.m.	\$45.00	\$76,500.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P0908 GPT and Associated Drainage Infrastructure	1	item	\$38,000.00	\$38,000.00
	CDS P1009 GPT and Associated Drainage Infrastructure	1	item	\$40,000.00	\$40,000.00
				SUBTOTAL	\$467,500.00
3	DRAINAGE / STRUCTURES				
	825 dia (RRJ) Outlet (incl. exc., lay & backfill)	70	lin.m	\$550.00	\$38,500.00
	Main Basin Outlet Structure	1	each	\$7,000.00	\$7,000.00
	Rock Erosion Protection / Energy Dissipator at Outlet	50	sq.m.	\$250.00	\$12,500.00
				SUBTOTAL	\$58,000.00
TOTAL FOR ITEMS 1, 2 & 3					\$1,253,600.00
4	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$189,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$1,442,600.00
5	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$87,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$4,176.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$112,000.00
TOTAL					\$1,554,600.00

PRELIMINARY COST ESTIMATE

PROJECT: Schofields Section 94 Basins

CLIENT: Department of Planning

JWP Plan Number/Version: 8980SK04

BASIN 4

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BASIN				
	Establishment (5%)	1	item	\$165,000.00	\$165,000.00
	Clearing (Allowance Only)	1	item	\$50,000.00	\$50,000.00
	Strip & stockpile topsoil	34,500	sq.m.	\$1.50	\$51,750.00
	Respread topsoil	30,000	sq.m.	\$2.50	\$75,000.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	13,090	cu.m.	\$5.00	\$65,450.00
	Earthworks - Import material		cu.m.	\$30.00	
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)	11,310	cu.m.	\$75.00	\$848,250.00
	Trim and Compact	34,500	sq.m.	\$1.00	\$34,500.00
	Planting/turfing (incl maintenance for 2 years)	30,000	sq.m.	\$7.50	\$225,000.00
	Soil & Water Management (Allowance Only)	1	item	\$25,000.00	\$25,000.00
				SUBTOTAL	\$1,540,000.00
2	BIO-RETENTION RAINGARDEN				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	4,500	sq.m.	\$180.00	\$810,000.00
	Raingarden Planting	4,500	sq.m.	45.00	\$202,500.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P1009 GPT and Associated Drainage Infrastructure	2	item	\$40,000.00	\$80,000.00
	CDS P1015 GPT and Associated Drainage Infrastructure	1	item	\$60,000.00	\$60,000.00
				SUBTOTAL	\$1,160,000.00
3	DRAINAGE / STRUCTURES				
	2 x 1200 dia (RRJ) Outlet (incl. exc., lay & backfill)	50	lin.m.	\$1,600.00	\$80,000.00
	Main Basin Outlet Structure	1	each	\$15,000.00	\$15,000.00
	Rock Erosion Protection / Energy Dissipator at Outlet	100	sq.m.	\$250.00	\$25,000.00
				SUBTOTAL	\$120,000.00
				TOTAL FOR ITEMS 1, 2 & 3	\$2,820,000.00
4	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$423,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$3,243,000.00
5	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$195,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$7,921.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$223,000.00
				TOTAL	\$3,466,000.00

PRELIMINARY COST ESTIMATE

PROJECT: Schofields Section 94 Basins

CLIENT: Department of Planning

JWP Plan Number/Version: 8980SK05

BASIN 5

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BASIN				
	Establishment (5%)	1	item	\$225,000.00	\$225,000.00
	Clearing (Allowance Only)	1	item	\$50,000.00	\$50,000.00
	Strip & stockpile topsoil	50,500	sq.m.	\$1.50	\$75,750.00
	Respread topsoil	46,400	sq.m.	\$2.50	\$116,000.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	4,480	cu.m.	\$5.00	\$22,400.00
	Earthworks - Import material	52,900	cu.m.	\$30.00	\$1,587,000.00
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)		cu.m.	\$75.00	
	Trim and Compact	50,500	sq.m.	\$1.00	\$50,500.00
	Planting/turfing (incl maintenance for 2 years)	46,400	sq.m.	\$7.50	\$348,000.00
	Reinforced Turfing on Weir and Spillway (incl 2 yr maint)	1,000	sq.m.	\$25.00	\$25,000.00
	Soil & Water Management (Allowance Only)	1	item	\$25,000.00	\$25,000.00
				SUBTOTAL	\$2,524,650.00
2	BIO-RETENTION RAINGARDEN (5A)				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	2,150	sq.m.	\$180.00	\$387,000.00
	Raingarden Planting	2,150	sq.m.	\$45.00	\$96,750.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P2018 GPT and Associated Drainage Infrastructure	2	item	\$160,000.00	\$320,000.00
				SUBTOTAL	\$810,750.00
3	BIO-RETENTION RAINGARDEN (5B)				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	1,950	sq.m.	\$180.00	\$351,000.00
	Raingarden Planting	1,950	sq.m.	\$45.00	\$87,750.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P1015 GPT and Associated Drainage Infrastructure	1	item	\$60,000.00	\$60,000.00
				SUBTOTAL	\$505,750.00
4	DRAINAGE / STRUCTURES				
	Main Basin Outlet Weir Structure	1	lin.m	\$30,000.00	\$30,000.00
	Main Basin Outlet Structure	1	each	\$15,000.00	\$15,000.00
	Rock Erosion Protection / Energy Dissipator at Outlet	100	sq.m.	\$250.00	\$25,000.00
				SUBTOTAL	\$70,000.00
TOTAL FOR ITEMS 1, 2, 3 & 4					\$3,911,150.00
5	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$587,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$4,498,150.00
6	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$270,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$10,532.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$301,000.00
TOTAL					\$4,799,150.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK06****BASIN 6**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BASIN				
	Establishment (5%)	1	item	\$175,000.00	\$175,000.00
	Clearing (Allowance Only)	1	item	\$50,000.00	\$50,000.00
	Strip & stockpile topsoil	39,100	sq.m.	\$1.50	\$58,650.00
	Respread topsoil	39,100	sq.m.	\$2.50	\$97,750.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	10,745	cu.m.	\$5.00	\$53,725.00
	Earthworks - Import material		cu.m.	\$30.00	
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)	20,200	cu.m.	\$75.00	\$1,515,000.00
	Trim and Compact	39,100	sq.m.	\$1.00	\$39,100.00
	Planting/turfing (incl maintenance for 2 years)	39,100	sq.m.	\$7.50	\$293,250.00
	Reinforced Turfing on Weir and Spillway (incl 2 yr maint)	1,000	sq.m.	\$25.00	\$25,000.00
	Soil & Water Management (Allowance Only)	1	item	\$25,000.00	\$25,000.00
	SUBTOTAL				\$2,332,475.00
6	DRAINAGE / STRUCTURES				
	900 diameter RCP Low Flow Outlet (incl. exc., lay & backfill)	50	lin.m.	\$500.00	\$25,000.00
	Main Basin Outlet Weir Structure	1	each	\$50,000.00	\$50,000.00
	Rock Erosion Protection at Weir Outlet	2,500	sq.m.	\$250.00	\$625,000.00
	SUBTOTAL				\$700,000.00
TOTAL FOR ITEMS 1, 2, 3 & 4					\$3,032,475.00
7	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$455,000.00
	SUBTOTAL WITH 15% CONTINGENCY				\$3,487,475.00
8	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$210,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$8,429.00
	PCA Fees (Allowance Only)		item		\$10,000.00
	SUBTOTAL				\$239,000.00
TOTAL					\$3,726,475.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK07****BASIN 7**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BASIN				
	Establishment (5%)	1	item	\$50,000.00	\$50,000.00
	Clearing (Allowance Only)	1	item	\$50,000.00	\$50,000.00
	Strip & stockpile topsoil	6,000	sq.m.	\$1.50	\$9,000.00
	Respread topsoil	5,250	sq.m.	\$2.50	\$13,125.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site		cu.m.	\$5.00	
	Earthworks - Import material	11,020	cu.m.	\$30.00	\$330,600.00
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)		cu.m.	\$75.00	
	Trim and Compact	6,000	sq.m.	\$1.00	\$6,000.00
	Planting/turfing (incl maintenance for 2 years)	5,250	sq.m.	\$7.50	\$39,375.00
	Reinforced Turfing on Weir and Spillway (incl 2 yr maint)	600	sq.m.	\$25.00	\$15,000.00
	Soil & Water Management (Allowance Only)	1	item	\$25,000.00	\$25,000.00
				SUBTOTAL	\$538,100.00
2	BIO-RETENTION RAINGARDEN				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil)	750	sq.m.	\$180.00	\$135,000.00
	Raingarden Planting	750	sq.m.	\$45.00	\$33,750.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P1009 GPT and Associated Drainage Infrastructure (incl. GPT for bypassing catchment)	2	item	\$40,000.00	\$80,000.00
				SUBTOTAL	\$255,750.00
3	DRAINAGE / STRUCTURES				
	2 x 1050 dia (RRJ) Outlet (incl. exc., lay & backfill)	40	lin.m	\$1,200.00	\$48,000.00
	Main Basin Outlet Structure	1	ea	\$15,000.00	\$15,000.00
	Rock Erosion Protection at Culvert Outlet	50	sq.m.	\$250.00	\$12,500.00
				SUBTOTAL	\$75,500.00
TOTAL FOR ITEMS 1, 2, 3 & 4					\$869,350.00
4	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$131,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$1,000,350.00
5	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$61,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$3,256.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$85,000.00
TOTAL					\$1,085,350.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK07****BASIN 8**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BASIN				
	Establishment (5%)	1	item	\$50,000.00	\$50,000.00
	Clearing (Allowance Only)	1	item	\$50,000.00	\$50,000.00
	Strip & stockpile topsoil	5,000	sq.m.	\$1.50	\$7,500.00
	Respread topsoil	3,950	sq.m.	\$2.50	\$9,875.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site		cu.m.	\$5.00	
	Earthworks - Import material	7,670	cu.m.	\$30.00	\$230,100.00
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)		cu.m.	\$75.00	
	Trim and Compact	5,000	sq.m.	\$1.00	\$5,000.00
	Planting/turfing (incl maintenance for 2 years)	3,950	sq.m.	\$7.50	\$29,625.00
	Reinforced Turfing on Weir and Spillway (incl 2 yr maint)	600	sq.m.	\$25.00	\$15,000.00
	Soil & Water Management (Allowance Only)	1	item	\$25,000.00	\$25,000.00
				SUBTOTAL	\$422,100.00
2	BIO-RETENTION RAINGARDEN				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	1,050	sq.m.	\$180.00	\$189,000.00
	Raingarden Planting	1,050	sq.m.	\$45.00	\$47,250.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P1009 GPT and Associated Drainage Infrastructure	1	item	\$40,000.00	\$40,000.00
				SUBTOTAL	\$283,250.00
4	DRAINAGE / STRUCTURES				
	3 x 1200 dia (RRJ) Outlet (incl. exc., lay & backfill)	40	lin.m.	\$2,400.00	\$96,000.00
	Main Basin Outlet Structure	1	each	\$15,000.00	\$15,000.00
	Rock Erosion Protection at Culvert Outlet	100	sq.m.	\$250.00	\$25,000.00
				SUBTOTAL	\$136,000.00
TOTAL FOR ITEMS 1, 2, 3 & 4					\$841,350.00
5	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$127,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$968,350.00
	ADMINISTRATION AND MANAGEMENT COSTS				
6	Consultancy and Project Management Fees (6%)		item		\$59,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$3,133.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$83,000.00
TOTAL					\$1,051,350.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK08****BASIN 9**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BASIN				
	Establishment (5%)	1	item	\$30,000.00	\$30,000.00
	Clearing (Allowance Only)	1	item	\$50,000.00	\$50,000.00
	Strip & stockpile topsoil	3,000	sq.m.	\$1.50	\$4,500.00
	Respread topsoil	2,700	sq.m.	\$2.50	\$6,750.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	40	cu.m.	\$5.00	\$200.00
	Earthworks - Import material		cu.m.	\$30.00	
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)	2,230	cu.m.	\$75.00	\$167,250.00
	Trim and Compact	3,000	sq.m.	\$1.00	\$3,000.00
	Planting/turfing (incl maintenance for 2 years)	2,700	sq.m.	\$7.50	\$20,250.00
	Reinforced Turfing on Weir and Spillway (incl 2 yr maint)	600	sq.m.	\$25.00	\$15,000.00
	Soil & Water Management (Allowance Only)	1	item	\$25,000.00	\$25,000.00
				SUBTOTAL	\$321,950.00
2	BIO-RETENTION RAINGARDEN				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	300	sq.m.	\$180.00	\$54,000.00
	Raingarden Planting	300	sq.m.	\$45.00	\$13,500.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P0908 GPT and Associated Drainage Infrastructure	1	item	\$38,000.00	\$38,000.00
				SUBTOTAL	\$112,500.00
4	DRAINAGE / STRUCTURES				
	450 dia (RRJ) Outlet (incl. exc., lay & backfill)	70	lin.m.	\$300.00	\$21,000.00
	Main Basin Outlet Structure	1	lin.m.	\$7,000.00	\$7,000.00
	Rock Erosion Protection at Culvert Outlet	50	each	\$250.00	\$12,500.00
				SUBTOTAL	\$40,500.00
TOTAL FOR ITEMS 1, 2, 3 & 4					\$474,950.00
5	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$72,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$546,950.00
6	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$33,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$2,173.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$56,000.00
TOTAL					\$602,950.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK08****BASIN 10**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BASIN				
	Establishment (5%)	1	item	\$30,000.00	\$30,000.00
	Clearing (Allowance Only)	1	item	\$50,000.00	\$50,000.00
	Strip & stockpile topsoil	2,500	sq.m.	\$1.50	\$3,750.00
	Respread topsoil	2,225	sq.m.	\$2.50	\$5,562.50
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	520	cu.m.	\$5.00	\$2,600.00
	Earthworks - Import material		cu.m.	\$30.00	
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)	1,030	cu.m.	\$75.00	\$77,250.00
	Trim and Compact	2,500	sq.m.	\$1.00	\$2,500.00
	Planting/turfing (incl maintenance for 2 years)	2,225	sq.m.	\$7.50	\$16,687.50
	Reinforced Turfing on Weir and Spillway (incl 2 yr maint)	600	sq.m.	\$25.00	\$15,000.00
	Soil & Water Management (Allowance Only)	1	item	\$25,000.00	\$25,000.00
				SUBTOTAL	\$228,350.00
2	BIO-RETENTION RAINGARDEN				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	275	sq.m.	\$180.00	\$49,500.00
	Raingarden Planting	275	sq.m.	\$45.00	\$12,375.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P0908 GPT and Associated Drainage Infrastructure	1	item	\$38,000.00	\$38,000.00
				SUBTOTAL	\$106,875.00
3	DRAINAGE / STRUCTURES				
	525 dia (RRJ) Outlet (incl. exc., lay & backfill)	300	lin.m	\$350.00	\$105,000.00
	Main Basin Outlet Structure	1	ea	\$7,000.00	\$7,000.00
	Rock Erosion Protection / Energy Dissipator at Outlet	50	sq.m.	\$250.00	\$12,500.00
				SUBTOTAL	\$124,500.00
TOTAL FOR ITEMS 1, 2, 3 & 4					\$459,725.00
4	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$69,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$528,725.00
5	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$32,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$2,131.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$55,000.00
TOTAL					\$583,725.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK08****BASIN 11**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BASIN				
	Establishment (5%)	1	item	\$25,000.00	\$25,000.00
	Clearing (Allowance Only)	1	item	\$50,000.00	\$50,000.00
	Strip & stockpile topsoil	2,200	sq.m.	\$1.50	\$3,300.00
	Respread topsoil	1,925	sq.m.	\$2.50	\$4,812.50
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	720	cu.m.	\$5.00	\$3,600.00
	Earthworks - Import material		cu.m.	\$30.00	
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)	1,590	cu.m.	\$75.00	\$119,250.00
	Trim and Compact	2,200	sq.m.	\$1.00	\$2,200.00
	Planting/turfing (incl maintenance for 2 years)	1,925	sq.m.	\$7.50	\$14,437.50
	Reinforced Turfing on Weir and Spillway (incl 2 yr maint)	600	sq.m.	\$25.00	\$15,000.00
	Soil & Water Management (Allowance Only)	1	item	\$25,000.00	\$25,000.00
				SUBTOTAL	\$262,600.00
2	BIO-RETENTION RAINGARDEN				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	275	sq.m.	\$180.00	\$49,500.00
	Raingarden Planting	275	sq.m.	\$45.00	\$12,375.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P0908 GPT and Associated Drainage Infrastructure	1	item	\$38,000.00	\$38,000.00
				SUBTOTAL	\$106,875.00
4	DRAINAGE / STRUCTURES				
	525 dia (RRJ) Outlet (incl. exc., lay & backfill)	50	lin.m	\$350.00	\$17,500.00
	Main Basin Outlet Structure	1	ea	\$7,000.00	\$7,000.00
	Rock Erosion Protection / Energy Dissipator at Outlet	50	sq.m.	\$250.00	\$12,500.00
				SUBTOTAL	\$37,000.00
TOTAL FOR ITEMS 1, 2, 3 & 4					\$406,475.00
5	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$61,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$467,475.00
6	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$29,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$1,969.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$51,000.00
TOTAL					\$518,475.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK09****CHANNEL 2**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	DRAINAGE CHANNEL				
	Establishment (5%)	1	Item	\$150,000.00	\$150,000.00
	Clearing & Desilt (Allowance Only)	1	Item	\$10,000.00	\$10,000.00
	Strip, Stockpile & Respread Topsoil	17,800	sq.m.	\$4.00	\$71,200.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	1,425	cu.m.	\$5.00	\$7,125.00
	Earthworks - Import material		cu.m.	\$7.50	
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$7.50	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)	11,845	cu.m.	\$75.00	\$888,375.00
	Trim and Compact	17,800	sq.m.	\$1.00	\$17,800.00
	Planting/turfing (incl maintenance for 2 years)	17,800	sq.m.	\$7.50	\$133,500.00
	Hydromulch Temporary Batters	2,000	sq.m.	\$1.00	\$2,000.00
	Rock Lined Channel Protection at Culvert Outlets	800	sq.m.	\$250.00	\$200,000.00
	Soil & Water Management (Allowance Only)	1	item	\$15,000.00	\$15,000.00
	SUBTOTAL				\$1,495,000.00
2	ROAD CROSSINGS AND GPT'S				
	3600x900 (RCBC) Crossings (incl. head & wingwalls)	260	lin.m.	\$4,000.00	\$1,040,000.00
	SUBTOTAL				\$1,040,000.00
TOTAL FOR ITEM 1 & 2					\$2,535,000.00
3	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$381,000.00
	SUBTOTAL WITH 15% CONTINGENCY				\$2,916,000.00
4	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$175,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$7,241.00
	PCA Fees (Allowance Only)		item		\$10,000.00
	SUBTOTAL				\$203,000.00
TOTAL					\$3,119,000.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK09****CHANNEL 3**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	DRAINAGE CHANNEL				
	Establishment (5%)	1	Item	\$45,000.00	\$45,000.00
	Clearing & Desilt (Allowance Only)	1	Item	\$10,000.00	\$10,000.00
	Strip, Stockpile & Respread Topsoil	18,800	sq.m.	\$4.00	\$75,200.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	3,060	cu.m.	\$5.00	\$15,300.00
	Earthworks - Import material	14,440	cu.m.	\$7.50	\$108,300.00
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$7.50	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)		cu.m.	\$75.00	
	Trim and Compact	18,800	sq.m.	\$1.00	\$18,800.00
	Planting/turfing (incl maintenance for 2 years)	16,300	sq.m.	\$7.50	\$122,250.00
	Hydromulch Temporary Batters	1,000	sq.m.	\$1.00	\$1,000.00
	Rock Lined Channel Protection at Culvert Outlets	600	sq.m.	\$250.00	\$150,000.00
	Soil & Water Management (Allowance Only)	1	item	\$15,000.00	\$15,000.00
				SUBTOTAL	\$561,000.00
2	ROAD CROSSINGS AND GPT'S				
	2 x 3600x900 (RCBC) Crossing (incl. head & wingwalls)	25	lin.m.	\$8,000.00	\$200,000.00
				SUBTOTAL	\$200,000.00
TOTAL FOR ITEM 1 & 2					\$761,000.00
3	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$115,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$876,000.00
4	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$53,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$2,923.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$76,000.00
TOTAL					\$952,000.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK10****CHANNEL 4**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	DRAINAGE CHANNEL				
	Establishment (5%)	1	Item	\$55,000.00	\$55,000.00
	Clearing & Desilt (Allowance Only)	1	Item	\$10,000.00	\$10,000.00
	Strip, Stockpile & Respread Topsoil	26,000	sq.m.	\$4.00	\$104,000.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	2,810	cu.m.	\$5.00	\$14,050.00
	Earthworks - Import material	5,850	cu.m.	\$7.50	\$43,875.00
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$7.50	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)		cu.m.	\$75.00	
	Trim and Compact	26,000	sq.m.	\$1.00	\$26,000.00
	Planting/turfing (incl maintenance for 2 years)	26,000	sq.m.	\$7.50	\$195,000.00
	Hydromulch Temporary Batters	1,000	sq.m.	\$1.00	\$1,000.00
	Rock Lined Channel Protection at Culvert Outlets	600	sq.m.	\$250.00	\$150,000.00
	Soil & Water Management (Allowance Only)	1	item	\$15,000.00	\$15,000.00
	SUBTOTAL				\$614,000.00
2	ROAD CROSSINGS AND GPT'S				
	3 x 3600x900 (RCBC) Crossing (incl. head & wingwalls)	25	lin.m.	\$12,000.00	\$300,000.00
	SUBTOTAL				\$300,000.00
TOTAL FOR ITEM 1 & 2					\$914,000.00
3	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$138,000.00
	SUBTOTAL WITH 15% CONTINGENCY				\$1,052,000.00
4	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$64,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$3,364.00
	PCA Fees (Allowance Only)		item		\$10,000.00
	SUBTOTAL				\$88,000.00
TOTAL					\$1,140,000.00

PRELIMINARY COST ESTIMATE

PROJECT: Schofields Section 94 Basins

CLIENT: Department of Planning

JWP Plan Number/Version: 8980SK10

CHANNEL 5

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	DRAINAGE CHANNEL				
	Establishment (5%)	1	Item	\$615,000.00	\$615,000.00
	Clearing & Desilt (Allowance Only)	1	Item	\$10,000.00	\$10,000.00
	Strip, Stockpile & Respread Topsoil	138,000	sq.m.	\$4.00	\$552,000.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	1,520	cu.m.	\$5.00	\$7,600.00
	Earthworks - Import material		cu.m.	\$7.50	
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$7.50	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)	106,780	cu.m.	\$75.00	\$8,008,500.00
	Trim and Compact	138,000	sq.m.	\$1.00	\$138,000.00
	Planting/turfing (incl maintenance for 2 years)	138,000	sq.m.	\$7.50	\$1,035,000.00
	Hydromulch Temporary Batters	50,000	sq.m.	\$1.00	\$50,000.00
	Rock Lined Channel Protection at Culvert Outlets	1,000	sq.m.	\$250.00	\$250,000.00
	Soil & Water Management (Allowance Only)	1	item	\$15,000.00	\$15,000.00
				SUBTOTAL	\$10,682,000.00
2	ROAD CROSSINGS AND GPT'S				
	Bridge at Basin 6 - NOT INCLUDED	1	item		
				SUBTOTAL	
3	BIO-RETENTION SWALE (6A)				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	260	sq.m.	\$180.00	\$46,800.00
	Raingarden Planting	260	sq.m.	\$45.00	\$11,700.00
	Construction of Maintenance Access	1	each	\$2,000.00	\$2,000.00
	CDS P1009 GPT and Associated Drainage Infrastructure	1	item	\$40,000.00	\$40,000.00
				SUBTOTAL	\$100,500.00
4	BIO-RETENTION SWALE (6B)				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	1,250	sq.m.	\$180.00	\$225,000.00
	Raingarden Planting	1,250	sq.m.	\$45.00	\$56,250.00
	Construction of Maintenance Access	1	item	\$2,000.00	\$2,000.00
	CDS P2018 GPT and Associated Drainage Infrastructure	1	item	\$160,000.00	\$160,000.00
				SUBTOTAL	\$443,250.00
5	BIO-RETENTION SWALE (6C)				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	1,550	sq.m.	\$180.00	\$279,000.00
	Raingarden Planting	1,550	sq.m.	\$45.00	\$69,750.00
	Construction of Maintenance Access	1	each	\$2,000.00	\$2,000.00
	CDS P2018 GPT and Associated Drainage Infrastructure	1	item	\$160,000.00	\$160,000.00
				SUBTOTAL	\$510,750.00
6	BIO-RETENTION SWALE (6D)				
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	2,400	sq.m.	\$180.00	\$432,000.00
	Raingarden Planting	2,400	sq.m.	\$45.00	\$108,000.00
	Construction of Maintenance Access	1	each	\$2,000.00	\$2,000.00
	CDS P2018 GPT and Associated Drainage Infrastructure	1	item	\$160,000.00	\$160,000.00
				SUBTOTAL	\$702,000.00
TOTAL FOR ITEM 1 & 2					\$10,682,000.00
7	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$1,603,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$12,285,000.00
8	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$738,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$37,167.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$796,000.00
TOTAL					\$13,081,000.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK13****RAINGARDEN A**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BIO-RETENTION RAINGARDEN				
	Establishment (5%)	1	item	\$15,000.00	\$15,000.00
	Strip & stockpile topsoil	1,600	sq.m.	\$1.50	\$2,400.00
	Respread topsoil	1,175	sq.m.	\$2.50	\$2,937.50
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	140	cu.m.	\$5.00	\$700.00
	Earthworks - Import material		cu.m.	\$30.00	
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)	740	cu.m.	\$75.00	\$55,500.00
	Trim and Compact	1,600	sq.m.	\$1.00	\$1,600.00
	Planting (incl maintenance for 2 years)	1,175	sq.m.	\$25.00	\$29,375.00
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	425	sq.m.	\$180.00	\$76,500.00
	Raingarden Planting	425	sq.m.	\$45.00	\$19,125.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P0708 GPT and Associated Drainage Infrastructure	2	item	\$38,000.00	\$76,000.00
	SUBTOTAL				\$286,137.50
2	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$43,000.00
	SUBTOTAL WITH 15% CONTINGENCY				\$329,137.50
3	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$20,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$1,556.00
	PCA Fees (Allowance Only)		item		\$10,000.00
	SUBTOTAL				\$42,000.00
	TOTAL				\$371,137.50

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK13****RAINGARDEN B**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BIO-RETENTION RAINGARDEN				
	Establishment (5%)	1	item	\$10,000.00	\$10,000.00
	Strip & stockpile topsoil	750	sq.m.	\$1.50	\$1,125.00
	Respread topsoil	525	sq.m.	\$2.50	\$1,312.50
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	80	cu.m.	\$5.00	\$400.00
	Earthworks - Import material		cu.m.	\$30.00	
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)	180	cu.m.	\$75.00	\$13,500.00
	Trim and Compact	750	sq.m.	\$1.00	\$750.00
	Planting (incl maintenance for 2 years)	525	sq.m.	\$25.00	\$13,125.00
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	225	sq.m.	\$180.00	\$40,500.00
	Raingarden Planting	225	sq.m.	\$45.00	\$10,125.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P0708 GPT and Associated Drainage Infrastructure	1	item	\$35,000.00	\$35,000.00
				SUBTOTAL	\$132,837.50
2	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$20,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$152,837.50
3	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$10,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$825.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$31,000.00
				TOTAL	\$183,837.50

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK14****RAINGARDEN C**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BIO-RETENTION RAINGARDEN				
	Establishment (5%)	1	item	\$10,000.00	\$10,000.00
	Strip & stockpile topsoil	1,100	sq.m.	\$1.50	\$1,650.00
	Respread topsoil	875	sq.m.	\$2.50	\$2,187.50
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site		cu.m.	\$5.00	
	Earthworks - Import material	860	cu.m.	\$30.00	\$25,800.00
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)		cu.m.	\$75.00	
	Trim and Compact	1,100	sq.m.	\$1.00	\$1,100.00
	Planting (incl maintenance for 2 years)	875	sq.m.	\$25.00	\$21,875.00
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	225	sq.m.	\$180.00	\$40,500.00
	Raingarden Planting	225	sq.m.	\$45.00	\$10,125.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P0708 GPT and Associated Drainage Infrastructure	1	item	\$35,000.00	\$35,000.00
				SUBTOTAL	\$155,237.50
2	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$24,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$179,237.50
3	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$11,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$938.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$32,000.00
				TOTAL	\$211,237.50

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK14****RAINGARDEN D**

NO.	ITEM	QTY.	UNIT	RATE Exc GST\$	AMOUNT Exc GST\$
1	BIO-RETENTION RAINGARDEN				
	Establishment (5%)	1	item	\$10,000.00	\$10,000.00
	Strip & stockpile topsoil	1,400	sq.m.	\$1.50	\$2,100.00
	Respread topsoil	950	sq.m.	\$2.50	\$2,375.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site		cu.m.	\$5.00	
	Earthworks - Import material	430	cu.m.	\$30.00	\$12,900.00
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)		cu.m.	\$75.00	
	Trim and Compact	1,400	sq.m.	\$1.00	\$1,400.00
	Planting (incl maintenance for 2 years)	950	sq.m.	\$25.00	\$23,750.00
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	450	sq.m.	\$180.00	\$81,000.00
	Raingarden Planting	450	sq.m.	\$45.00	\$20,250.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P0908 GPT and Associated Drainage Infrastructure	1	item	\$38,000.00	\$38,000.00
				SUBTOTAL	\$198,775.00
2	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$30,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$228,775.00
3	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$14,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$1,150.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$36,000.00
				TOTAL	\$264,775.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SK15****RAINGARDEN E**

NO.	ITEM	QTY.	UNIT	RATE	AMOUNT
				Exc GST\$	Exc GST\$
1	BIO-RETENTION RAINGARDEN				
	Establishment (5%)	1	item	\$10,000.00	\$10,000.00
	Strip & stockpile topsoil	1,000	sq.m.	\$1.50	\$1,500.00
	Respread topsoil	750	sq.m.	\$2.50	\$1,875.00
	Earthworks - Excavate and Dispose of Unsound Material		cu.m.	\$200.00	
	Earthworks - Cut to Fill On Site	140	cu.m.	\$5.00	\$700.00
	Earthworks - Import material	40	cu.m.	\$30.00	\$1,200.00
	Earthworks - Cut, Dispose and Compact within 2 km		cu.m.	\$10.00	
	Earthworks - Cut to Dispose off Site (incl. disposal fees)		cu.m.	\$75.00	
	Trim and Compact	1,000	sq.m.	\$1.00	\$1,000.00
	Planting (incl maintenance for 2 years)	750	sq.m.	\$25.00	\$18,750.00
	Media Bed constructions (incl. Earthworks, filter bed & subsoil drainage)	250	sq.m.	\$180.00	\$45,000.00
	Raingarden Planting	250	sq.m.	\$45.00	\$11,250.00
	Construction of Maintenance Access	1	item	\$7,000.00	\$7,000.00
	CDS P0708 GPT and Associated Drainage Infrastructure	1	item	\$35,000.00	\$35,000.00
				SUBTOTAL	\$133,275.00
2	PLANT & CONTINGENCIES				
	15% Plant & Contingency		item		\$20,000.00
				SUBTOTAL WITH 15% CONTINGENCY	\$153,275.00
3	ADMINISTRATION AND MANAGEMENT COSTS				
	Consultancy and Project Management Fees (6%)		item		\$10,000.00
	Government Agency Approvals (DSC, RTA, DECCW, etc - Allowance Only)		item		\$10,000.00
	Council DA Fees and planFIRST Levy		item		\$827.00
	PCA Fees (Allowance Only)		item		\$10,000.00
				SUBTOTAL	\$31,000.00
				TOTAL	\$184,275.00

PRELIMINARY COST ESTIMATE**PROJECT: Schofields Section 94 Basins & Channels****CLIENT: Department of Planning****JWP Plan Number/Version: 8980SKW01-15****BASINS AND CHANNELS COST SUMMARY**

NO.	ITEM	AMOUNT Exc GST\$
1	BASIN 1	\$679,100.00
2	BASIN 2	\$1,720,875.00
3	BASIN 3	\$1,554,600.00
4	BASIN 4	\$3,466,000.00
5	BASIN 5	\$4,799,150.00
6	BASIN 6	\$3,726,475.00
7	BASIN 7	\$1,085,350.00
8	BASIN 8	\$1,051,350.00
9	BASIN 9	\$602,950.00
10	BASIN 10	\$583,725.00
11	BASIN 11	\$518,475.00
COMBINED BASINS / RAINGARDENS SUB-TOTAL		\$19,788,050.00
12	RAINGARDEN A	\$371,137.50
13	RAINGARDEN B	\$183,837.50
14	RAINGARDEN C	\$211,237.50
15	RAINGARDEN D	\$264,775.00
16	RAINGARDEN E	\$184,275.00
RAINGARDENS SUB-TOTAL		\$1,215,262.50
18	CHANNEL 1	Existing
19	CHANNEL 2	\$3,119,000.00
20	CHANNEL 3	\$952,000.00
21	CHANNEL 4	\$1,140,000.00
22	CHANNEL 5 (INCLUDES BIORETENTION SWALES 6A-6D)	\$13,081,000.00
CHANNELS SUBTOTAL		\$18,292,000.00
STORMWATER & DRAINAGE SECTION 94 TOTAL ESTIMATE		\$39,295,312.50