



E	REVISED ISSUE - POST PANEL SAC RECOMMENDATIONS	DB	29.08.23
D	REVISED ISSUE	CC	22.04.22
C	REVISED ISSUE	CC	06.04.22
B	REVISED ISSUE	CC	05.11.21
A	PRELIMINARY ISSUE	CC	15.10.21
REV	DESCRIPTION	APP'D	DATE

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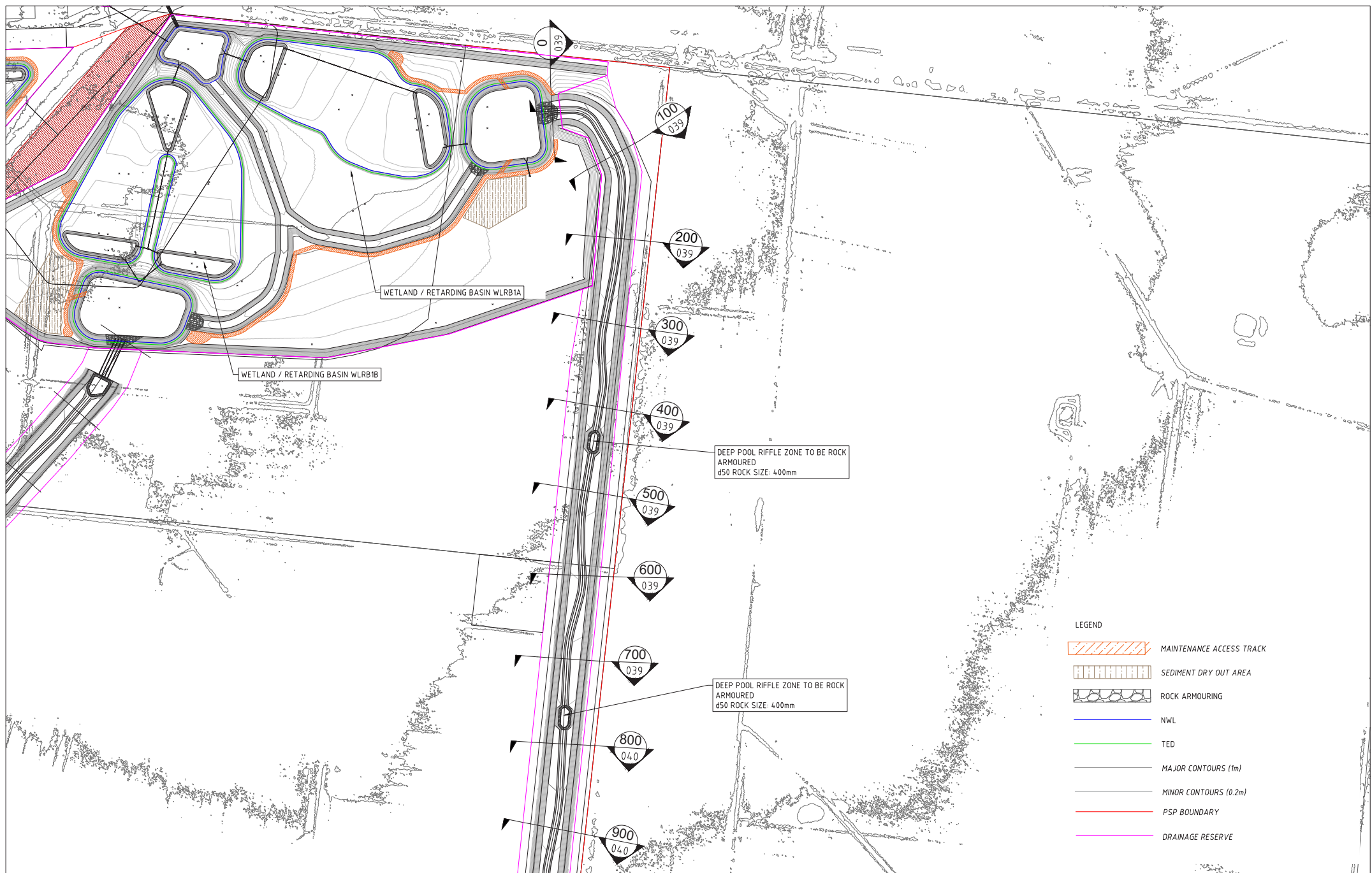
DESIGNED: D.BRAND	DRAWN: D.BRAND	CHECKED: C.CARVALHO	APPROVED: S.CLEVEN	PROJECT No: 0121128
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VICTORIAN PLANNING AUTHORITY
WONTHAGGI NORTH EAST PSP
FUNCTIONAL DESIGN DRAWINGS
WESTERN WATERWAY DESIGN (SHEET 3 OF 3) (DCP REF. DR-01)

REVISION: E	SHEET No.: 45 of 55	ORIGINAL SIZE: A1 DATUM: m AHD (MGA 255)	SCALE: 12,000 0 40 80 120m 20
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East Waterway (E-WW) DCP– DR-02

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
1	SITE WORKS					
1.1	Site preparation	1	Item	\$10,000	\$10,000	
1.2	Diversion works	1	Item	\$20,000	\$20,000	
1.3	Waterway re-shaping	1	Item	\$20,000	\$20,000	
1.4	Stripping of topsoil	34,083	m3	\$1.30	\$44,308	MW reimbursement rates for south east region (stripping)
2	EARTHWORKS					MW reimbursement rates for south east region (earthworks rates)
2.1	Bulk excavation	178,994	m3	\$10.90	\$1,951,035	Excavation in broad greenfield land, excavated material to be reused on site for filling, allowance of 95% reuse on site for filling
2.2	Reuse of onsite cut for filling	170,044	m3	\$11.70	\$1,989,518	Assumed 95% of bulk excavation for reuse
2.3	Disposal of excess cut	8,950	m3	\$19.20	\$171,834	Assumed 5% of bulk excavation
3	DRAINAGE					
3.1	Rockwork for waterway pool formation					
3.1.1	Supply and install D50=400mm rock, 800 mm thick to form Bass Hwy Outlet Pool	116	m3	\$197	\$22,852	MW reimbursement rates for south east region (rockwork rate)
3.1.2	Supply and install D50=400mm rock, 800 mm thick to form McGibbonys Rd Inlet Pool	134	m3	\$197	\$26,398	MW reimbursement rates for south east region (rockwork rate)
3.1.3	Supply and install D50=400mm rock, 800 mm thick to form McGibbonys Rd Outlet Pool	101	m3	\$197	\$19,897	MW reimbursement rates for south east region (rockwork rate)
3.1.4	Supply and install D50=400mm rock, 800 mm thick to form pool No 1.	140	m3	\$197	\$27,580	MW reimbursement rates for south east region (rockwork rate)
3.1.5	Supply and install D50=400mm rock, 800 mm thick to form pool No 2.	101	m3	\$197	\$19,897	MW reimbursement rates for south east region (rockwork rate)
3.1.6	Supply and install D50=400mm rock, 800 mm thick to form pool No 3.	142	m3	\$197	\$27,974	MW reimbursement rates for south east region (rockwork rate)
3.1.7	Supply and install D50=400mm rock, 800 mm thick to form pool No 4.	131	m3	\$197	\$25,807	MW reimbursement rates for south east region (rockwork rate)
3.1.8	Supply and install geofabric(Bidim A44 or equivalent) for all rock work	343	m3	\$25	\$8,575	
4	LANDSCAPING					
4.1	Re-spread 200 mm topsoil for planting areas	32,379	m2	\$3.30	\$106,850	Allowance of 95% of topsoil stripped from site, 5% assumed as unsuitable for reuse MW reimbursement rates for south east region (Topsoiling (80% from stockpile and 20% imported))
4.2	Aquatic revegetation of the low flow waterway	22,908	m2	\$14.50	\$332,166	MW reimbursement rates for south east region (Aquatic revegetation)
4.3	Terrestrial revegetation of the high flow waterway	95,245	m2	\$16.80	\$1,600,116	MW reimbursement rates for south east region (terrestrial revegetation)
4.4	Supply and install heavy jute mat (800gsm) pre-slit at density 6/m2 to channel benches.	38,519	m2	\$7	\$269,633	MW reimbursement rates for south east region (weed control matting)
4.5	Supply and install coir logs along channel for temporary erosion control.	5,736	lm	\$20	\$114,720	
SUB-TOTAL WORKS				\$6,809,160		
5	DELIVERY					
5.1	Council fees	3.25	%		\$221,298	
5.2	VicRoads fees	–	%		\$–	
5.3	Traffic management	2	%		\$136,183	
5.4	Environmental management	0.5	%		\$34,046	
5.5	Survey & design	5	%		\$340,458	
5.6	Supervision & project management	4	%		\$272,366	
5.7	Site establishment	2.5	%		\$170,229	
5.8	Contingency	35	%		\$2,383,206	
SUB-TOTAL DELIVERY					\$3,557,786	
6	TOTAL ESTIMATED COST				\$10,366,946	



- LEGEND
-  MAINTENANCE ACCESS TRACK
 -  SEDIMENT DRY OUT AREA
 -  ROCK ARMOURING
 -  NWL
 -  TED
 -  MAJOR CONTOURS (1m)
 -  MINOR CONTOURS (0.2m)
 -  PSP BOUNDARY
 -  DRAINAGE RESERVE

REV	DESCRIPTION	APP'D	DATE
E	REVISED ISSUE - POST PANEL SAC RECOMMENDATIONS	DB	29.08.23
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D.BRAND	D.BRAND	C.CARVALHO	S.CLEVEN	0121128

VICTORIAN PLANNING AUTHORITY WONTHAGGI NORTH EAST PSP FUNCTIONAL DESIGN DRAWINGS EASTERN WATERWAY DESIGN (SHEET 1 OF 3) (DCP REF. DR-02)			
REVISION:	SHEET No.:	ORIGINAL SIZE:	SCALE:
E	35 of 55	A1	1:2,000
		DATUM: m AHD (MGA 255)	20 40 80 120m



LEGEND

-  MAINTENANCE ACCESS TRACK
-  SEDIMENT DRY OUT AREA
-  ROCK ARMOURING
-  NWL
-  TED
-  MAJOR CONTOURS (1m)
-  MINOR CONTOURS (0.2m)
-  PSP BOUNDARY
-  DRAINAGE RESERVE

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VICTORIAN PLANNING AUTHORITY WONTHAGGI NORTH EAST PSP FUNCTIONAL DESIGN DRAWINGS EASTERN WATERWAY DESIGN (SHEET 2 OF 3) (DCP REF. DR-02)			
REVISION: E	SHEET No.: 36 of 55	ORIGINAL SIZE: A1 DATUM: m AHD (MGA z55)	SCALE: 1:2,000 0 40 80 120m



REV	DESCRIPTION	APP'D	DATE
E	REVISED ISSUE - POST PANEL SAC RECOMMENDATIONS	DB	29.08.23
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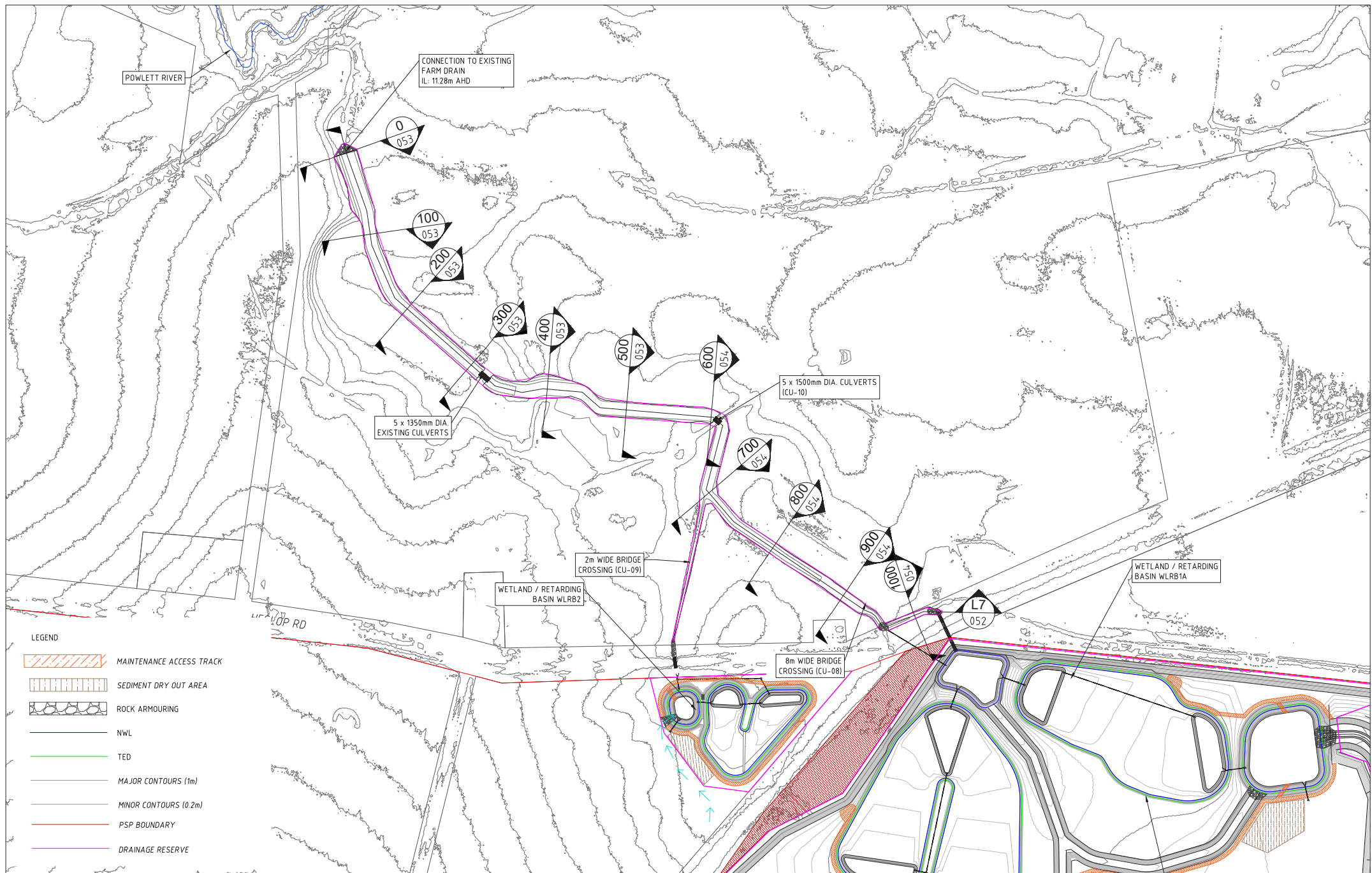
DESIGNED:	D.BRAND	DRAWN:	D.BRAND	CHECKED:	C.CARVALHO	APPROVED:	S.CLEVEN	PROJECT No:	0121128
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VICTORIAN PLANNING AUTHORITY
WONTHAGGI NORTH EAST PSP
FUNCTIONAL DESIGN DRAWINGS
EASTERN WATERWAY DESIGN (SHEET 3 OF 3) (DCP REF. DR-02)

REVISION:	E	SHEET No.:	37 of 55	ORIGINAL SIZE:	A1	SCALE:	1:2,000
				DATUM:	m AHD (MGA 255)		

Main Outfall to Powlett River (MOP) DCP – DR-03

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
1	SITE WORKS					
1.1	Site preparation	1	Item	\$10,000	\$10,000	
1.2	Diversion works	1	Item	\$20,000	\$20,000	
1.3	Waterway re-shaping	1	Item	\$20,000	\$20,000	
1.4	Stripping of topsoil	3,486	m3	\$1.30	\$4,532	MW reimbursement rates for south east region (stripping)
2	EARTHWORKS					MW reimbursement rates for south east region (earthworks rates)
2.1	Bulk excavation	16,910	m3	\$10.90	\$184,319	Excavation in broad greenfield land, excavated material to be reused on site for filling, allowance of 95% reuse on site for filling
2.2	Reuse of onsite cut for filling	16,065	m3	\$11.70	\$187,955	Assumed 95% of bulk excavation for reuse
2.3	Disposal of excess cut	846	m3	\$19.20	\$16,234	Assumed 5% of bulk excavation
3	DRAINAGE					
3.1	Rockwork for waterway pool formation					
3.1.1	Supply and install D50=400mm rock, 800 mm thick to form WLRB1 Outlet Pool	151	m3	\$197	\$29,747	MW reimbursement rates for south east region (rockwork rate)
3.1.2	Supply and install D50=400mm rock, 800 mm thick to form WLRB2 Outlet Pool	60	m3	\$197	\$11,820	MW reimbursement rates for south east region (rockwork rate)
3.1.3	Supply and install D50=400mm rock, 800 mm thick to form connection to existing downstream drain	154	m3	\$197	\$30,338	MW reimbursement rates for south east region (rockwork rate)
3.1.4	Supply and install geofabric (Bidim A44 or equivalent) for all rock work	80	m3	\$25	\$2,000	
4	LANDSCAPING					
4.1	Re spread 200 mm topsoil for planting areas	3,312	m2	\$3.30	\$10,929	Allowance of 95% of topsoil stripped from site, 5% assumed as unsuitable for reuse MW reimbursement rates for south east region (Topsoiling (80% from stockpile and 20% imported))
4.2	Terrestrial revegetation of the high flow waterway	17,430	m2	\$16.80	\$292,824	MW reimbursement rates for south east region (terrestrial revegetation)
4.3	Supply and install heavy jute mat (800gsm) pre-slit at density 6/m2 to channel benches.	17,430	m2	\$7	\$122,010	MW reimbursement rates for south east region (weed control matting)
	SUB-TOTAL WORKS				\$942,707	
5	DELIVERY					
5.1	Council fees	3.25	%		\$30,638	
5.2	VicRoads fees	–	%		\$–	
5.3	Traffic management	2	%		\$18,854	
5.4	Environmental management	0.5	%		\$4,714	
5.5	Survey & design	5	%		\$47,135	
5.6	Supervision & project management	4	%		\$37,708	
5.7	Site establishment	2.5	%		\$23,568	
5.8	Contingency	35	%		\$329,947	
	SUB-TOTAL DELIVERY				\$492,564	
6	TOTAL ESTIMATED COST				\$1,435,271	



LEGEND

- MAINTENANCE ACCESS TRACK
- SEDIMENT DRY OUT AREA
- ROCK ARMOURING
- NWL
- TED
- MAJOR CONTOURS (1m)
- MINOR CONTOURS (0.2m)
- PSP BOUNDARY
- DRAINAGE RESERVE

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VICTORIAN PLANNING AUTHORITY
WONTHAGGI NORTH EAST PSP
FUNCTIONAL DESIGN DRAWINGS
MAIN OUTFALL DESIGN (DCP REF. DR-03)

REVISION:	E	SHEET No.:	51 of 55	ORIGINAL SIZE:	A1	SCALE:	1:2000
				DATUM:	m AHD (MGA 255)		

Wetland/Retarding Basin 1 (WLRB-1A & WLRB-1B) DCP – WL-01

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
1	SITE WORKS					
1.1	Site preparation	1	Item	\$20,000	\$20,000	
1.2	Diversion works	1	Item	\$40,000	\$40,000	
1.3	Geotechnical Investigation	1	Item	\$50,000	\$50,000	
1.4	Cultural Heritage Assessment	1	Item	\$50,000	\$50,000	
1.5	Flora and Fauna Study	1	Item	\$30,000	\$30,000	
1.6	Safety Assessment	1	Item	\$20,000	\$20,000	
1.7	Stripping of topsoil	45,940	m3	\$1.30	\$59,722	MW reimbursement rates for south east region (stripping)
2	EARTHWORKS					MW reimbursement rates for south east region (earthworks rates)
2.1	Bulk excavation	297,854	m3	\$10.90	\$3,246,609	Excavation in broad greenfield land, excavated material to be reused on site for filling, allowance of 95% reuse on site for filling
2.2	Reuse of onsite cut for filling	282,961	m3	\$11.70	\$3,310,647	Assumed 95% of bulk excavation for reuse
2.3	Disposal of excess cut	14,893	m3	\$19.20	\$285,940	Assumed 5% of bulk excavation
3	DRAINAGE – WLRB-1A					
3.1	Rockwork					
3.1.1	Supply and install D50=400mm rock, 800 mm thick to form WL1A Wetland inlet	438	m3	\$197	\$86,286	MW reimbursement rates for south east region (rockwork rate)
3.1.2	Supply and install D50=400mm rock, 800 mm thick to form WL1A Wetland overflow spillway	155	m3	\$197	\$30,535	MW reimbursement rates for south east region (rockwork rate)
3.2	Concrete					
3.2.1	Supply and install reinforced N32 grade concrete weir to form WL1A Wetland spillway weir	1	Item	\$10,000	\$10,000	
3.2.2	Supply and install reinforced N32 grade concrete, 150 mm deep to form WL1A sedimentation basin base	911	m3	\$322	\$293,342	Reinforced concrete slab 150mm thick (Rawlinsons publication)
3.3	Drainage					
3.3.1	Supply and install 900 mm dia RRJ sediment pond transfer pipe incl excavation, 20% crushed rock back fill (WL1A wetland)	22	m	\$561	\$12,342	MW reimbursement rates for south east region (900mm RRJ 20% FCR backfill)
3.3.2	Supply and install submerged offtake pit (WL1A wetland)	1	No.	\$6,710	\$6,710	
3.3.3	Supply and install 300 mm dia RRJ 20% backfill balance pipes (WL1A wetland)	160	m	\$170	\$27,200	MW reimbursement rates for south east region (300mm RRJ 20% FCR backfill)
3.3.4	Supply and install submerged offtake pits for balance pipes (WL1A wetland)	2	No.	\$6,710	\$13,420	
3.3.5	Supply and install 900 mm dia RRJ wetland outfall pipe incl excavation, 20% crushed rock back fill (WL1A wetland)	25	m	\$561	\$14,025	MW reimbursement rates for south east region (900mm RRJ 20% FCR backfill)
3.3.6	Supply and install twin chamber outfall pit with penstock and concrete weir (WL1A wetland)	1	No.	\$15,000	\$15,000	
3.4	Access path					
3.4.1	Supply and install N32 grade concrete to form 4m wide sediment pond maintenance access ramp WL1A wetland	160	m2	\$61.90	\$9,904	MW reimbursement rates for south east region (concrete access track)
3.4.2	Supply and install D50=200mm with Class 2 FCR backfill to form 4m wide maintenance access around WL1A wetland	3,440	m2	\$33.10	\$113,864	MW reimbursement rates for south east region (crushed rock access track)
4	DRAINAGE – WLRB-1B					
4.1	Rockwork					
4.1.1	Supply and install D50=400mm rock, 800 mm thick to form WL1B Wetland inlet channel	342	m3	\$197	\$67,374	MW reimbursement rates for south east region (rockwork rate)
4.1.2	Supply and install D50=400mm rock, 800 mm thick to form WL1B Wetland overflow spillway	249	m3	\$197	\$49,053	MW reimbursement rates for south east region (rockwork rate)
4.2	Concrete					
4.2.1	Supply and install reinforced N32 grade concrete weir to form WL1B Wetland spillway weir	1	Item	\$10,000	\$10,000	
4.2.2	Supply and install reinforced N32 grade concrete, 150 mm deep to form WL1B sedimentation basin base	1,026	m3	\$322	\$330,372	Reinforced concrete slab 150mm thick (Rawlinsons publication)

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
4.3	Drainage					
4.3.1	Supply and install 900 mm dia RRJ sediment pond transfer pipe incl excavation, 20% crushed rock back fill (WL1B wetland)	60	m	\$561	\$33,660	MW reimbursement rates for south east region (900mm RRJ 20% FCR backfill)
4.3.2	Supply and install submerged offtake pit (WL1B wetland)	1	No.	\$6,710	\$6,710	
4.3.3	Supply and install 300 mm dia RRJ 20% backfill balance pipes (WL1B wetland)	141	m	\$170	\$23,970	MW reimbursement rates for south east region (300mm RRJ 20% FCR backfill)
4.3.4	Supply and install submerged offtake pits for balance pipes (WL1B wetland)	4	No.	\$6,710	\$26,840	
4.3.5	Supply and install 1050 mm dia wetland outfall pipe incl excavation, crushed rock bedding and back fill (WL1B wetland)	21	m	\$696	\$14,616	MW reimbursement rates for south east region (1050mm RRJ 20% FCR backfill)
4.3.6	Supply and install twin chamber outfall pit with penstock and concrete weir (WL1B wetland)	1	No.	\$15,000	\$15,000	
4.4	Access path					
4.4.1	Supply and install N32 grade concrete to form 4m wide sediment pond maintenance access ramp WL1B wetland	82	m2	\$61.90	\$5,076	MW reimbursement rates for south east region (concrete access track)
4.4.2	Supply and install D50=200mm with Class 2 FCR backfill to form 4m wide maintenance access around WL1B wetland	1,127	m2	\$33.10	\$37,304	MW reimbursement rates for south east region (crushed rock access track)
5	LANDSCAPING – WLRB-1A					
5.1	Re spread 200 mm topsoil for planting areas	21,822	m2	\$3.30	\$72,011	Allowance of 95% of topsoil stripped from site, 5% assumed as unsuitable for reuse MW reimbursement rates for south east region (Topsoiling (80% from stockpile and 20% imported))
5.2	Placement of 300 mm compacted clay liners for sedimentation basin and wetland (clay sourced onsite)	45,167	m2	\$8.00	\$361,336	MW reimbursement rates for south east region (clay lining)
5.3	Supply and install submerged marsh planting.	748	m2	\$14.50	\$10,846	MW reimbursement rates for south east region (Aquatic revegetation)
5.4	Supply and install deep marsh planting (60cm3 tube, 2/m2).	13,439	m2	\$14.50	\$194,866	MW reimbursement rates for south east region (Aquatic revegetation)
5.5	Supply and install shallow marsh planting (60cm3 tube, 2/m2).	7,451	m2	\$14.50	\$108,040	MW reimbursement rates for south east region (Aquatic revegetation)
5.6	Supply and install wet ephemeral planting (90cm3 tube, 6/m2).	2,179	m2	\$14.50	\$31,596	MW reimbursement rates for south east region (Aquatic revegetation)
5.7	Supply and install dry ephemeral planting (90cm3 tube, 6/m2).	5,723	m2	\$16.80	\$96,146	MW reimbursement rates for south east region (terrestrial revegetation)
5.8	Supply and install sediment drying area planting (virocell planting, 6/m2).	2,960	m2	\$16.80	\$49,728	MW reimbursement rates for south east region (terrestrial revegetation)
5.9	Supply and install heavy jute mat (800gsm) pre-slit at density 6/m2 to TED to 350mm below NWL as specified for all Wet Ephemeral Planting	23,069	m2	\$7	\$161,483	MW reimbursement rates for south east region (weed control matting)
5.10	Supply, install and maintain plant protection netting for a selected species in the aquatic zones.	2	No.	\$20,000	\$40,000	
6	LANDSCAPING – WLRB-1B					
6.1	Re spread 200 mm topsoil for planting areas	21,822	m2	\$3.30	\$72,011	Allowance of 95% of topsoil stripped from site, 5% assumed as unsuitable for reuse MW reimbursement rates for south east region (Topsoiling (80% from stockpile and 20% imported))
6.2	Placement of 300 mm compacted clay liners for sedimentation basin and wetland (clay sourced onsite)	46,378	m2	\$8.00	\$371,024	MW reimbursement rates for south east region (clay lining)
6.3	Supply and install submerged marsh planting (60cm3 tube, 1/m2).	1,020	m2	\$14.50	\$14,790	MW reimbursement rates for south east region (Aquatic revegetation)
6.4	Supply and install deep marsh planting (60cm3 tube, 2/m2).	17,590	m2	\$14.50	\$255,055	MW reimbursement rates for south east region (Aquatic revegetation)
6.5	Supply and install shallow marsh planting (60cm3 tube, 2/m2).	9,820	m2	\$14.50	\$142,390	MW reimbursement rates for south east region (Aquatic revegetation)
6.6	Supply and install wet ephemeral planting (90cm3 tube, 6/m2).	7,378	m2	\$14.50	\$106,981	MW reimbursement rates for south east region (Aquatic revegetation)
6.7	Supply and install dry ephemeral planting (90cm3 tube, 6/m2).	6,520	m2	\$16.80	\$109,536	MW reimbursement rates for south east region (terrestrial revegetation)
6.8	Supply and install sediment drying area planting (virocell planting, 6/m2).	3,741	m2	\$16.80	\$62,849	MW reimbursement rates for south east region (terrestrial revegetation)

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
6.9	Supply and install heavy jute mat (800gsm) pre-slit at density 6/m2 to TED to 350mm below NWL as specified for all Wet Ephemeral Planting	32,802	m2	\$7	\$229,614	MW reimbursement rates for south east region (weed control matting)
6.10	Supply, install and maintain plant protection netting for a selected species in the aquatic zones.	2	No.	\$20,000	\$40,000	
7	MISCELLANEOUS					
7.1	Allowance for timber bollards	1	Item	\$3,000	\$3,000	
7.2	Allowance for seats	1	Item	\$35,000	\$35,000	
	SUB-TOTAL WORKS				\$10,933,821	
8	DELIVERY					
8.1	Council fees	3.25	%		\$355,349	
8.2	VicRoads fees	1	%		\$109,338	
8.3	Traffic management	2	%		\$218,676	
8.4	Environmental management	1	%	\$50,000	\$50,000	
8.5	Erosion control management	0.5	%		\$54,669	
8.6	Survey & design	5	%		\$546,691	
8.7	Supervision & project management	4	%		\$437,353	
8.8	Site establishment	2.5	%		\$273,346	
8.9	Contingency	35			\$3,826,837	
	SUB-TOTAL DELIVERY				\$5,872,260	
6	TOTAL ESTIMATED COST				\$16,806,080	