

# DRAINAGE DETAIL SHEET



## DRAINAGE STRUCTURES

STATION km + m	STATION km + m	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE					ALLOWABLE OPTIONS						PIPE ELBOW NO. DEG	E EA	CB EA	P D	DEPTH MM	CONC. H.P. CL m³	REINF. STEEL kg	DI GRATE TYPE	CHAN ELEV EA	CRM m³	TRENCH EXCAVATION		COMM EXC m³	UNC CHAN EXC m³	STRUCT EXCAV m³	GRAN BKILL STRUCT m³	GRAN BORR m³	EROS MATT m²	STONE FILL		MARKER POSTS		REMARKS		
				INLET	OUTLET	IN	OUT	SPAN mm	RISE mm	L m	D mm	L m	PCCSP mm	CAAP mm	RCP CL	CSP mm	CPEP SL mm	PCCSP PI mm	EARTH m³	ROCK m³	m³											m³	m³							m³	m²	m³	TYPE		LT ea	RT ea
<b>EXISTING DRAINAGE</b>																																														
1	+218.1	I+208.2	RT		DITCH	DITCH																												EXISTING 150 CMP TO BE REMOVED.												
2	+307.3	I+309.0	LT		WETLAND	WETLAND																												EXISTING 600 MASONRY BOX CULVERT TO BE REMOVED.												
3	+361.8	I+364.4	RT/LT		WETLAND	WETLAND																												EXISTING 450 CMP TO BE REMOVED.												
4	+466.5	I+465.1	RT/LT		WETLAND	WETLAND																												EXISTING 900 RCP CULVERT TO BE RETAINED.												
5	+135.4	2+131.3	RT		DITCH	DITCH																												EXISTING 300 CMP TO BE RETAINED.												
<b>PROPOSED DRAINAGE</b>																																														
1	+2+032.188	2+021.532	RT		MANHOLE	DITCH				300	11.8	1.63	1.52	III		X																		SEE SHEET 9 FOR PRECAST CONCRETE PRETREATMENT CHAMBER DETAIL.												
2	+300.000	I+306.220	RT/LT		CHANNEL	DITCH				900	19.5	2.01	1.52							I														PROVIDE 50 MM CAMBER PRIOR TO BACKFILLING. CONSTRUCT REINFORCED CONCRETE STRAIGHT HEADWALL SEE STD. D-33.												
3	+360.558	I+364.673	RT/LT		CHANNEL	DITCH				450	19.0	1.63	1.52							I														PROVIDE 50 MM CAMBER PRIOR TO BACKFILLING. CONSTRUCT REINFORCED CONCRETE STRAIGHT HEADWALL SEE STD. D-33												
4	+2+034.716	2+032.188	RT		DITCH	MANHOLE				300	2.5					X				I-45														SEE DRAINAGE SUMMARY SHEET												
<b>TOTALS</b>										300	11.8	PCCSP (1.63)							2				5.9	533.5				44.4	12.1				47.5	29.0		8.65	2	5								
										450	19.0	PCCSP (1.63)																																		
										900	19.5	PCCSP (2.01)																																		
										300	11.8	CAAP (1.52)																																		
										450	19.0	CAAP (1.52)																																		
										900	19.5	CAAP (1.52)																																		
										300	11.8	RCP CLASS III																																		
										300	14.3	CPEP (SL)																																		
																		PROJECT NAME : <b>CORNWALL</b>						PROJECT NO. : <b>BRS 0172(6)</b>																						
																		DESIGN FILE NAME: z85e042qty.dgn						PLOT DATE: 3/15/2010																						
																		IPARM FILE NAME:						SURVEYED BY: VTRANS & VT SURVEY																						
																		SQUAD LEADER: MARTHA EVANS-MONGEON						DRAWN BY: ERIK ATKINS																						
																		DRAINAGE DETAIL SHEET						SHEET: 16 OF 144																						