SURVEYED BY ....
SUPERVISED BY AAA
DESIGNED BY Dewberry (703) 849-0607

IN PROGRESS 10/22/08
NOT FOR CONSTRUCTION

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED		STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
7/17/08		VA.		7		2C(12)

DRAINAGE SUMMARY

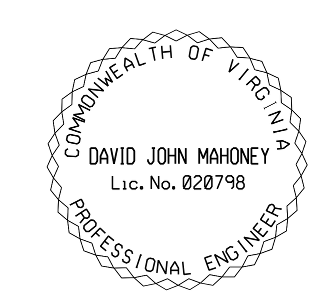
LOCATION		PIPE															
STRUCTURE NO. TO STRUCTURE NO.	STATION OF UPSTREAM STRUCTURE	CONCRETE PIPE											ELIPTICAL PIPE				
		DIAMETER (INCHES)															
		15	18	24	30	36	42	48	54	60	72		23x14	30x19	45x29	68x43	76x48
		LINEAR FEET															
7(2)-9 to 7(2)-10		88															
7(2)-10 to EX.7(2)-11		85															
EX.7(2)-11 to 8-11			132														
7(2)-12																	
7(2)-13																	
7(2)-13 to 7(2)-14				30													
7(2)-14																	
7(2)-15																	
7(2)-15 to 7(2)-1										45							
8-1 to 8-2		57															
8-2 to 8-3		48															
8-3 to 8-14				20													
8-6 to 8-7								26									
8-8 to 8-20			72														
8-9 to 8-8		244															
8-7																	
SUBTOTAL		522	204	50				26		45							

LOCATION	BOX CULVERT (see sheet 2C(16))		END SECTIONS ES-1		END SECTION ES-1 or ES-2					RADIAL PIPE	RADIAL PIPE	COVER	MINOR STRUCTURE EXCAVATION		EROSION CONTROL TREATMENT			
			DIAMETER (INCHES)												EC-3 TYPE B	EC-1 CLASS AI TYPE A	EC-1 CLASS I TYPE B	EC-1 CLASS I
	6x4	24x6.67	15	18	15	18	24	30	36	15	60							
	LINEAR FEET											FT.	C.Y.	%	SQY.			
7(2)-9 to 7(2)-10												2.6						
7(2)-10 to EX.7(2)-11												3.5						
EX.7(2)-11 to 8-11												3.8						
7(2)-12															41.7			
7(2)-13																		
7(2)-13 to 7(2)-14																		48
7(2)-14																		
7(2)-15																		
7(2)-15 to 7(2)-1												16.7						
8-1 to 8-2												2.7						
8-2 to 8-3												3.0						
8-3 to 8-14												3.7						
8-6 to 8-7																		
8-8 to 8-20												2.5						
8-9 to 8-8												2.8						
8-7																		27
SUBTOTAL															41.7			75

LOCATION	MISC. STRUCTURES AND MATERIALS									CAST IN PLACE PIPE CULV.CON.			CONC. CRADLE	ENDWALLS									
	MANHOLE MH-1 OR 2	MOD.SWM-1	HDPE PIPE	LEVEL SPREADER	JB-1	SPECIAL DESIGN JB	PRECAST ARCH	EC-2	EC-3 TYPE A	CLASS A-3 CONCRETE	REINFORCED STEEL	GEOTEXTILE FABRIC	CLASS A-3 CONCRETE	CLASS A-3 CONCRETE	REINFORCED STEEL	HDPE PIPE	SPECIAL DESIGN EW	CLASS A3 CONCRETE FOR JB	REINF.STEEL FOR JB	BEDDING MATERIAL AGGREGATE No.57	CLASS I BACKFILL MATERIAL	CLASS II BACKFILL MATERIAL	REMARKS
	L.F.	L.F.	42"	EA	EA	EA	LF	SY	SY	CY	LB	SY	CY	CY	LB	30"	EA	CY	LB	TON	TON	TON	
7(2)-9 to 7(2)-10																							
7(2)-10 to EX.7(2)-11																							
EX.7(2)-11 to 8-11																							
7(2)-12														7.1									
7(2)-13		3																					see sheet 2H for details
7(2)-13 to 7(2)-14													12										
7(2)-14														1.32									
7(2)-15					1													0.679	276.5				
7(2)-15 to 7(2)-1																							
8-1 to 8-2																							
8-2 to 8-3																							
8-3 to 8-14																							
8-6 to 8-7												57								22			
8-8 to 8-20																							
8-9 to 8-8																							
8-7														5.23									
SUBTOTAL		3			1							57	12	13.7				0.679	276.5	22			

LOCATION		DROP INLETS																		
STRUCTURE NO.	STATION OF STRUCTURE	STD. DI-3B								STD. DI-3BB								STD. T-DI-3C		
		4	6	8	10	12	14	16	18	4	6	8	10	12	14	16	18	12	18	
11-5					1															
11-6					1															
11-7			1																	
11-8					1															
11-9					1															
11-10																				
11-11																				
12-1															1					
12-3				1																
12-4								1												
12-5							1													
12-6																				
12-7					1															
13-1					1															
13-2																				
13-3					1															
SUBTOTAL			1	1	7		1	1							1					

STRUCTURE NO.	STD. DI-3C			STD. DI-4B			MOD. DI-4BB			DI-7	DI-3A		HEIGHT OF DROP INLET	STD. DI-3E		STD.DI-4E	MOD. EXIST. STR.		STD. T-DI-3B		STD. T-DI-4B			MOD. DI-3B		MOD. DI-3C		REMARKS
																										SLOT LENGTH IN FEET		
	6	8	10	6	8	10	6	8	10	EA	EA			4	8	8	EA		14		4	6		4	6	6	10	
	EACH																											
11-5													4.22															St'd IS-1 Inlet Shap.Req'd
11-6													4.22															
11-7													6.86															
11-8													3.92															
11-9													3.92															
11-10										1			3.04															
11-11																	1											St'd IS-1 Inlet Shap.Req'd
12-1													11.67															St'd SL-1 Req'd
12-3													3.92															
12-4													3.92															
12-5													4.22															
12-6											1		4.22															
12-7													4.32															
13-1													3.92															
13-2	1												4.45															
13-3													4.42															
SUBTOTAL	1									1	1						1											



PLAN NO.	PROJECT	FILE NO.	SHEET NO.
A			2C(12)