STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	TSAP 193(9)	8	135

Rev. 1-25-83

SUMMARY OF QUANTITIES (CONT.)

STORM DRAIN PIPE REQUIRED

Station To Station	Skew	Side	Storm Drain Pipe Lin. Ft. 15"	18"	24"	30"	36"	42"	48"	Height of Fill Over Pipe Ft.	Drainage Area Acres	Class A Concrete Includ. Reinf. Steel Cu. Yd.	Ditch Excav. Cu. Yd.	Jct. Box Std. 9031-U Each	Flared End Sect. For Pipe Std. 1120 Each 15"	18"	24"	30"	36"	42"
Co. Rd.																				
187+28		Rt.			48					1'-10'							2			
324+24.66		Rt.		62						1'-10'						2				
366+04		Lt.	42							1'-10'					2					
M																				
158+15-159		Rt.			84					1'-10'	5.5		10				2			
158+65		Lt.			8					1'-10'	5.6						1			
158+65	33°-45' Rt.	℄				104				1'-10'	10.1			1				1		
159+72	60° Rt.	℄					54			1'-10'	14.7		70						2	
165+50	60° Lt.	℄		46						1'-10'	8.3		3	1		1				
165+50		Rt.	70							1'-10'					1					
174+75	82°-30' Rt.	℄					62			1'-10'	36.7	3.05	3						1	
200+67	60° Lt.	℄					62			1'-10'	31.2	3.05							1	
218+22	82°-30' Lt.	℄							44	1'-10'	64.3	9.03	2							
243+90	90°	℄				46				1'-10'	13.8	2.32	3					1		
276+02	90°	℄						58		1'-10'	41.3	3.87	6							1
289+29	90°	℄			38					1'-10'	3.7		11				2			
305+96	90°	℄			46					1'-10'	6.4	1.69	3				1			
315+72	82° Rt.	℄			44					1'-10'	7.3		2				2			
335+05	60° Lt.	℄				56				1'-10'	11	2.32	10					1		
345+45	90°	℄						50		1'-10'	41.3	3.87	10							1
350+20	90°	℄			36					1'-10'	4.6		12				2			
351+75	90°	℄			36					1'-10'	6.4		3				2			
Total			112	108	340	206	178	108	44			29.20	148	2	3	3	14	3	4	2

NOTE: All Storm Drain Pipes To Be Concrete Unless Otherwise Noted.

* Denotes Type "B" Bituminous Coated Corrugated Steel Or Type "B" Bituminous Coated Corrugated Aluminum.

CONSTRUCT, MAINTAIN & REMOVE DETOUR DRAINAGE STRUCTURES

Structure No & Location	Side	Min. Size Pipe
#1 180+20	Rt.	60"
#2 231+94	Rt.	48"
#3 253+89	Lt.	48"
#4 264+28	Lt.	48"
#5 298+40	Rt.	54"
#6 327+35	Lt.	72"
#7 361+00	Lt.	42"

DETOUR SIGNING

Signing On Detours To Be Done In Accordance With "Work Zone Traffic Control" Manual, Page QB-4

CONCRETE BOX CULVERTS REQUIRED

Station	Skew	Drainage Area Acres	Size	Length Lin. Ft.	Standard Numbers	Special Design	Foundation Backfill Mat'l Type 2 Cu. Yds.	Class A Concrete Cu. Yds.	Bar Reinforc. Steel Lbs.	Channel Excavation Cu. Yds.	Ditch Excavation Cu. Yds.
180+50	60° Lt.	558.3	Dbl. 6'x5'	51	2328 & 2331	1	73	82.74	6564	0	0
231+94	90°	360.0	9'x5'	4	2323	1	56	56.81	6579	0	8
253+89	90°	293.8	6'x6'	70	2321	1	62	67.15	8675	0	7
264+28	90°	280.3	9'x5'	42	2323	1	66	55.15	6324	0	15
298+40	90°	493.1	7'x7'	4	2323	1	50	59.71	6613	19	0
327+35	90°	950.4	Dbl. 9'x6'	54	2326	1	85	124.66	13644	20	0
361+00	90°	217.6	Dbl. 4'x4'	40	2325	1	50	42.33	4308	19	0
Total							442	488.55	52707	58	30

"Concrete Apron Required On Outlet End Only (May Be Omitted As Directed By The Engineer)."

PAY QUANTITIES FOR CULVERTS IS BASED ON THE CAST IN PLACE ALTERNATES WITH NO ADJUSTMENTS TO BE MADE IF THE CONTRACTOR'S SELECTION OF THE PRECAST BARREL ALTERNATES RESULT IN ANY AS BUILT QUANTITIES OF BARRELS, WINGWALLS, PARAPETS, APRONS, OR BACKFILL MATERIALS DIFFERING FROM THE PAY QUANTITIES SHOWN FOR THE CAST-IN PLACE ALTERNATES.

FORM EF3