

**DRAINAGE SCHEDULE**

LOCATION		STORM SEWER		PIPE CULVERTS				MAN TA 4 DIA TIF CL (EACH)	MAN TA 5D M IN 604106 (EACH)	INLET BOX, STD 542501 (EACH)	INLET TYPE A TYPE B GRATE (EACH)	END SECTIONS					TRENCH BACKFILL MATERIAL (CU YD)
		CLASS A	CLASS A	CLASS A	CLASS A	CLASS D	CLASS D					METAL		PRECAST CONCRETE FLARED END			
		TY1	TY1	TY1	TY1	TY1	TY1					15"	18"	18"	24"	30"	
STATION	OFFSET	12" (FT)	18" (FT)	24" (FT)	30" (FT)	15" (FT)	18" (FT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)		
<b>FAS 1597 (IL 96)</b>																	
1321+41.58	33.48 LT				7											1	
	37.93 RT				10										1		
1326+43.75	34.38 RT			53											1	11.6	
	26.50 LT								1								
1329+33.18	34.05 RT			51											1	12.6	
	22.04 LT									1							
1333+08.80	35.29 LT					52						2					
1333+65.60	39.67 RT					58						2					
1342+37.00	28.90 LT					28						2					
1343+40.30	28.78 LT					42						2					
1358+13.20	29.82 LT					26						2					
1359+19.30	28.50 LT					32						2					
1360+50.20	28.20 LT					38						2					
1366+60.70	29.66 LT					46						2					
1368+36.70	28.97 LT					48						2					
1370+57.47	40.67 LT													1			
	33.33 RT			62										1		9.7	
1370+93.30	36.88 LT												2				
1386+61.30	44.18 RT												2				
1397+32.00	24.00' LT												2				
1409+53.60	28.87 RT					56						2					
1414+67.32	33.50 LT			58											1	10.6	
	33.50 RT														1		
1417+38.20	28.44 LT													2			
1423+28.30	28.02 LT		194												1		
1425+29.80	28.00 LT								1							5.0	
1425+41.90	28.14 RT					40						2					
1425+84.87	28.30 LT		51												1	6.7	
<b>TR 95 (0003M)</b>																	
9+02.00	17.10 RT	69														1	17.8
<b>TOTAL</b>		<b>69</b>	<b>245</b>	<b>224</b>	<b>17</b>	<b>466</b>	<b>162</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>22</b>	<b>8</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>74.0</b>
<b>USE</b>		<b>69</b>	<b>245</b>	<b>224</b>	<b>17</b>	<b>466</b>	<b>162</b>										<b>74</b>

**NOTE:**  
 THE FOLLOWING ITEMS INCLUDE ESTIMATED QUANTITIES (ADDITIONAL TO OTHER LOCATIONS) FOR THE REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS AT LOCATIONS (SUCH AS UNDER PROPOSED CULVERTS) OR AS DESIGNATED BY THE ENGINEER (SEE SPECIAL PROVISIONS).  
 1000 TON SUBBASE GRANULAR MATERIAL, TYPE B  
 100 TON ROCK EXCAVATION FOR STRUCTURES  
 500 TON ROCK FILL - FOUNDATION  
 EARTH EXCAVATION AT THE ASSUMED RATE OF 0.5 CU. YD./TON WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR SUBBASE GRANULAR MATERIAL, TYPE B AND ROCK FILL-FOUNDATION.

**PRECAST BOX CULVERT & END SECTIONS**

CULVERT NO.	LOCATION					PRECAST BOX CULVERT (ASTM C 1577)					SKEW			DESIGN FILL		POROUS GRANULAR EMBANK CU YD	BOX CULVERT END SECTIONS.				GRANULAR CULVERT BACKFILL CU YD	
						3' X 3'	3' X 5'	4' X 3'	6' X 4'	9' X 8'	DEC	MIN	L/R AH	E/SHLD R (MIN)	MAX.		CULVERT NO. 1	CULVERT NO. 2	CULVERT NO. 3	CULVERT NO. 4		
						FOOT	FOOT	FOOT	FOOT	FOOT				FOOT	FOOT		EACH	EACH	EACH	EACH		
<b>FAS 1597 (IL 96)</b>																						
1	1332+71.40	16.3' RT		1332+71.40	36.3' RT				14		0	0		1.3	1.3	2.9	1				3.5	
2	1345+71.89	23.1' RT		1345+71.89	37.1' RT		8				0	0		6.0	6.0	1.2		1			6.5	
3	1362+10.37	30.5' LT		1362+10.37	39.5' RT	64					0	0		1.7	2.2	9.6			1		66.6	
4	1379+49.75	31.2' LT		1379+49.75	38.6' RT			64			0	0		1.9	3.7	10.7			1		91.9	
5	1385+98.99	13.0' LT		1385+72.19	13.0' RT				74	47	0	RA		1.9	2.3	19.9					689.9	
<b>TOTAL</b>						<b>64</b>	<b>8</b>	<b>64</b>	<b>14</b>	<b>74</b>							<b>44</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>858</b>

**NOTE:**  
 POROUS GRANULAR EMBANKMENT (PLACED IN ACCORDANCE WITH ARTICLE 540.06 OF STANDARD SPECIFICATIONS) SHALL BE INCLUDED IN THE PRICE OF PRECAST BOX CULVERT AND SHALL NOT BE PAID FOR SEPERATLEY