ENTRANCE APPROACH IMPROVEMENTS (A)

STATION	LOC	ADDRESS	EXISTING CULVERT		REMOVE		FURNISH AND INSTALL						
					CULV.	APRON	REPLACE	EXT.LT	EXT.RT	APRONS		EMBANKMENT	
			SIZE	TYPE	LIN.FT	EACH	LIN.FT	LIN.FT	LIN.FT	15'	18'	LEFT(CY)	RIGHT(CY)
184+04	RT	19835	15'x44'	CMP	44		57			2		3.1	5.3
184+76	LT	F.ENT	15'x29'	CMP				6	6	2		3.0	2.5
187+94	RT	19925	N/A										
189+32	LT	19932	N/A									1.5	1.5
192+27	RT	20015	15'x36'	CMP						2			
194+90	LT	20022	15'x24'	CMP				12	12	2		5.0	6.0
196+84	LT	20053	15'x29'	CMP				8	8	2		3.0	3.0
197+38	RT	20062	15'x36'	CMP				10	4	2		5.5	2.0
198+80	RT	20101	15'x35'	CMP				4		2		1.5	
199+09	LT	20102	15'x36'	CMP				10	6	2		7.0	5.0
199+57	RT	F.ENT	15'x36'	CMP	36		54			2		6.0	3.0
211+36	RT	20257	15'x32'	CMP				8	8	2		2.5	3.0
213+81	LT	20310	15'x31'	CMP				10	8	2			4.0
215+50	LT	F.ENT	15'x32'	CMP	32		51			2		4.5	5.5
223+56	LT	20410	N/A										1.0
229+55	LT	20516	15'x36'	CMP				6	2	2		3.0	1.0
245+21	LT	20730	N/A									13.5	6.5
246+57	LT	20740	15'x32'	CMP				10	5	2		4.0	2.0
248+00	RT	20761	15'x30'	SMP				10	12			7.0	13.0
249+95	LT	20760	15'x30'	CMP					2	2		0.5	0.5
250+75	LT	20800	18'x21'	CMP				*6	*6		2	1.5	1.5
251+48	RT	20787	15'x32'	CMP				6	6	2		3.5	3.0
253+80	LT	20830	15'x31'	CMP				6	4	2		2.0	2.0
254+10	RT	20845	15'x30'	CMP				8	4	2		3.0	1.5
254+76	LT	20890	N/A									0.5	1.0
256+25	LT	F.ENT	15'x36'	CMP				8	4	2		2.0	1.0
258+20	RT	MIN. GRANT L	15'x71'	CMP	71		71			2			
259+40	LT	209TH LANE	N/A										
266+94	LT	W. LINWOOD D	15'x52'	CMP				4		2		2.5	0.5
266+94	RT	S. LINWOOD D	15'x59'	CMP						2			
274+60	LT	21120	15'x36'	CMP				6	6	2		4.0	5.5
276+05	RT	F.ENT	15'x36'	CMP	36		39			2			1.0
278+51	RT	21111	15'x35'	CMP				18	14	2		15.0	11.5
280+75	LT	21230	15'x35'	CMP				8	10	2		5.5	5.5
281+18	RT	21185	15'x37'	CMP					6	2			2.0
281+89	LT	21230	15'x35'	CMP				12	14	2		9.0	11.0
284+95	RT	21205	15'x30'	CMP				4	4	2		1.5	1.0
287+39	LT	F.ENT	15'x36'	CMP	36		41			2		0.5	0.5
288+90	RT	21267	N/A										
291+63	RT	21295	N/A										
292+53	RT	21299	N/A									0.5	
293+00	LT	215TH LANE	N/A										
294+68	RT	21301	15'x36'	CMP					4	2			0.5
295+71	RT	21305	15'x38'	CMP						2			0.5
296+55	RT	21311	15'x29'	CMP						2		0.5	0.5
297+60	RT	21311	15'x37'	CMP				6		2		1.5	0.5
299+38	RT	21315	15'x34'	CMP	34		46			2		3.5	2.5
299+90	LT	F.ENT	N/A										3.0
303+75	LT	21415	15'x39'	CMP					6	2		0.5	7.0
306+45	RT	21441	15'x41'	CMP				2	4	2		0.5	1.0
307+60	RT	21441	15'x30'	CMP				6	10	2		4.5	4.0
313+38	RT	PLUTO ST	15'x45'	CMP	45		60			2		4.0	6.5
314+46	RT	F.ENT	18'x32'	CMP				*8	*8		2	3.0	3.0
315+54	RT	N. LINWOOD D	15'x48'	CMP	48		50			2		1.0	
325+95	RT	21619	N/A										
334+93	LT	21670	15'x30'	CMP	30		30			2			
338+20	RT	21765	N/A										
343+35	LT	CARLILSE'S	N/A										
344+38	LT	CARLILSE'S	15'x92'	CMP						2			
346+00	LT	CARLILSE'S	15'x69'	CMP				10		2		5.0	
346+25	RT	F.ENT	15'x37'	CMP				12	6	2		11.5	2.0
351+43	LT	CTY RD 85	18'x99'	CMP				*6	*4			8.0	6.5
353+60	LT	F.ENT	15'x42'	CMP	42		56			2		7.5	1.0
353+80	LT	F.ENT	15'x37'	CMP				10	14	2		8.5	7.0
356+40	RT	F.ENT	15'x35'	CMP				8	8	2		2.0	3.0
359+59	LT	6565	15'X59'	CMP				2	6	2		1.0	2.5
365+59	RT	F.ENT	N/A									6.0	6.5
367+34	RT	ZODIAC ST	15'x54'	CMP				6	6	2		2.5	3.5
373+83	LT	6752	15'x36'	CMP				6	6	2		4.0	4.0
374+41	RT	6810	15'x36'	CMP				14	10	2		11.5	6.5
377+97	RT	L. LK PUB AC	N/A										
387+90	RT	F.ENT	N/A									3.0	0.5
389+24	RT	HUMBER ST	N/A										
393+29	LT	7023	15'x35'	CMP				16	12	2		16.5	13.0
394+79	LT	7051	15'x31'	CMP				18	14	2		24.0	11.0
403+88	RT	7150/7166	15'x34'	CMP				6		2		2.0	
404+74	LT	CTY RD 26	N/A										
408+00	LT	7227	15'x36'	CMP	36		41			2		1.5	1.0
410+16	LT	7227	15'x36'	CMP				2	2			1.0	0.5
410+70	RT	F.ENT	18'x35'	CONC	35		35*				2	0.5	0.5
416+70	LT	7361	N/A										
417+88	RT	F.ENT	18'x36'	CONC	36		45*				2	1.5	3.5
419+27	LT	7415	15'x30'	CMP				4	6	2		2.0	2.5
421+11	LT	7445	15'x30'	CMP				10	8	2		4.5	3.5
422+91	LT	F.ENT	18'x37'	CONC	37		44*				2	3.5	3.0
425+49	LT	7503	N/A										
430+87	RT	THAMES ST	15'x49'	CMP		2		4	4	2		1.5	3.0
431+44	LT	THAMES ST	18'x61'	CMP								0.5	0.5

ENTRANCE APPROACH IMPROVEMENTS (A)

STATION	LOC	ADDRESS	EXISTING CULVERT		REMOVE		FURNISH AND INSTALL							
					CULV.	APRON	REPLACE	EXT.LT	EXT.RT	APRONS		EMBANKMENT		
			SIZE	TYPE	LIN.FT	EACH	LIN.FT	LIN.FT	LIN.FT	15'	18'	LEFT(CY)	RIGHT(CY)	
436+90	LT	DRIVE	15'x39'	CMP				4	10	2		2.5	4.5	
438+72	LT	7701	N/A										2.5	
444+28	LT	7801	18'x36'	CONC	36		51*				2	5.5	3.5	
445+19	RT	217TH AVE	18'x50'	CMP		1		4*			1	0.5	2.5	
446+45	LT	CTY RD 75	15'x65'	CMP				8	2	2		6.0	1.0	
453+25	RT	F.ENT	18'x35'	CONC	35		44*				2	1.0	2.0	
453+25	LT	F.ENT	18'x36'	CONC	36		51*				2	4.0	2.5	
459+25	RT	F.ENT	18'x45'	CONC	45		55*				2	1.0	5.0	
461+96	LT	7957/8045	15'x45'	CMP					4	2		0.5	1.5	
465+19	RT	8176	18'x37'	CONC	37		37*				2	0.5	0.5	
467+85	LT	F.ENT	18'x35'	CONC	35		47*				2	2.5	3.0	
468+85	LT	8065/8195	15'x51'	CMP				6	12			4.5	8.0	
471+10	RT	F.ENT	18'x35'	CONC	35		48*				2	3.5	2.5	
471+85	LT	8195	15'x34'	CMP				10	8	2		4.5	3.0	
475+58	LT	8197	15'x43'	CMP						2		0.5	1.0	
479+56	RT	FURMAN ST	18'x44'	CON/CMP	44		46*				2	5.0		
481+83	LT	8215	18'x38'	CONC	38		42*				2		2.0	
482+08	RT	8230	N/A										0.5	
485+57	LT	8245	18'x36'	CONC	36		41*				2	0.5	3.0	
486+61	LT	8265	18'x39'	CONC	39		43*				2	4.0	1.0	
487+44	LT	8303	18'x37'	CONC	37		40*				2	2.0		
555+51	LT	CARLOS AVERY	N/A											
572+67	RT	F.ENT	15'x36'	CMP				6	4	2		1.5	1.5	
572+67	LT	9431	15'x39'	CMP					6	2		1.0	2.5	
575+48	LT	9455	15'x37'	CMP						2			0.5	
578+23	LT	DRIVE	15'x36'	CMP				2	4	2		1.0	1.0	
580+09	LT	DRIVE	N/A											
583+06	RT	9554	N/A											
584+32	RT	F.ENT	15'x37'	CMP	37		37			2				
584+21	LT	9555	15'x37'	CMP						2		0.5	0.5	
586+85	LT	F.ENT	15'x39'	CMP				6		2		2.5	0.5	
594+00	LT	F.ENT	15'x34'	CMP				6	4	2		1.5	1.0	
596+32	RT	F.ENT	N/A									3.0	0.5	
597+64	RT	9724	15'x50'	CMP	50		74			2		7.5	11.0	
TOTALS					1138	3	707	364	325	144	35	337	296	(1)
							669*	24*	18*					

* 18' CMP

NOTE: ALL NEW PIPE SHALL BE 15' CMP UNLESS OTHERWISE NOTED.

NOTE: ALL ENTRANCES SCHEDULED TO BE IMPROVED SHALL BE FLATTENED TO 6:1 SLOPES

(1) EARTHWORK SUMMARY:

COMMON BORROW (LV) = EMBANKMENT x 1.5 = (337 + 296) x 1.5 = 950 CU. YDS.

CENTERLINE CULVERT CONSTRUCTION (F)

STATION	LOCATION	INPLACE	REMOVE CULV. PIPE		SALVAGE CULV. PIPE		INSTALL 54" RCP		F & I 24" RCP	
			LIN FT	APR	LIN FT	APR	LIN FT	APR	LIN FT	APR
310+40	LT	54"RCP			18	1	18	1		
318+00	LT & RT	24"RCP	68	2					70	2

TABULATED QUANTITIES