

MODIFIED BY EI 97-019 EFFECTIVE 11/20/97 & EI 98-038 EFFECTIVE 7/22/99 SUPERSEDED BY EB 99-019 EFFECTIVE 7/26/99		<i>New York State Department of Transportation</i> ENGINEERING INSTRUCTION	EI 96-016
Title: CORRUGATED METAL (STEEL AND ALUMINUM) PIPE AND END SECTIONS			
Distribution: ☐ Manufacturers (18) ☐ Surveyors (33) ☒ Main Office (30) ☒ Consultants (34) ☒ Local Govt. (31) ☐ Contractors/AGC (39) ☒ Regions/Agencies (32) ☐ ()		Approved:  P. J. Clark, Deputy Chief Engineer, Design Div. <u>04/02/96</u> Date	

This Engineering Instruction (EI) partially supersedes EI 95-51; superseded are the metric pay items for pipe.

EFFECTIVE DATE

The effective date for the disapproved and approved pay items will be the letting of September 5, 1996.

If time permits within the project schedule, designers are encouraged to implement these changes earlier. Regional designers who desire to implement the new pipe sizes for PS&E's already submitted, but not let, should contact the PS&E Review Section in the Design Quality Assurance Bureau. Designers who desire to implement the new pipe sizes for projects already let should coordinate their effort with Regional Construction.

PURPOSE

The purpose of this Engineering Instruction is to:

1. Implement changes to our "1995 Standard Metric Pay Items". The changes are necessary to make our pay item descriptions (pipe and end section dimensions) consistent with those adopted by the National Corrugated Steel Pipe Association (NCSPA), and proposed to be adopted by the American Society For Testing And Materials (ASTM) and the American Association of State Highway and Transportation Officials (AASHTO).
2. Disapprove the use of Smooth Lined Corrugated Steel Pipe, Items 603.21 and 603.22 (English and Metric). Based on the metal loss rates assigned to steel, and listed in chapter 8 of the Highway Design Manual, this material will not provide the intended hydraulic efficiency over the design and service lives assigned to pipe.

METAL PIPE SIZES (Metric)

Tables A through D illustrate the Department's old (contained in the "1995 Standard Metric Pay Items" and disapproved), and currently approved pipe sizes. Numbers in bold indicate approved pipe sizes which were not previously approved.

AFFECTED PAY ITEMS FOR METAL (STEEL AND ALUMINUM) PIPE AND END SECTIONS

Disapproved Pay Items

All §602 and §603 pay items listed in the "1995 Standard Metric Pay Items" whose material is specified per §707-02, §707-10, §707-11, or §707-13 are disapproved and are shown in tables 1 through 34.

In addition, we have disapproved the use of Smooth Lined Corrugated Steel Pipe (Type IA), Items 603.21 and 603.22. (This material will not provide the intended hydraulic efficiency over the design and service lives assigned to pipe.)

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Approved Pay Items

All approved §602 and §603 pay items whose material is specified per §707-02, §707-10, §707-11, and §707-13 are listed in tables 35 through 67. **(These pay items are consistent with those in use for English projects.)**

CONTACT

Questions regarding this Engineering Instruction should be directed to Norman Schips in the Design Quality Assurance Bureau. He may be reached at 518-485-8611.

Table A. Comparison of disapproved versus approved metal pipe sizes for §707-02 type I, and type IR, and §707-13 type I, type IA, and type IR pipe. **Numbers in bold indicate approved pipe sizes which were not previously approved.**

Disapproved Pipe Sizes "1995 Standard Contract Metric Pay Items" Diameter (mm)	Approved Pipe Sizes Diameter (mm)
300	300
400	375
450	450
500	525
600	600
700	675
800	750
900	900
1 000	1 050
1 200	1 200
1 400	1 350
1 600	1 500
--	1 650
1 800	1 800
2 000	1 950
2 200	2 100
--	2 250
2 400	2 400
--	2 550
2 700	2 700
--	2 850
3 000	3 000
--	
3 300	
--	
3 600	

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Comparison of disapproved versus approved metal pipe sizes for §707-02, and §707-13, type II pipe (68 x 13 mm corrugations). **All approved pipe sizes are new.**

Disapproved Pipe Sizes "1995 Standard Contract Metric Pay Items"		Approved Pipe Sizes	
Equivalent Diameter (mm)	Span x Rise (mm)	Equivalent Diameter (mm)	Span x Rise (mm)
400	450 x 340	375	430 x 330
450	510 x 380	450	530 x 380
500	560 x 420	525	610 x 460
600	680 x 500	600	710 x 510
700	800 x 580	750	885 x 610
800	910 x 660	900	1 060 x 740
900	1 030 x 740	1 050	1 240 x 840
1 000	1 150 x 820	1 200	1 440 x 970
1 200	1 390 x 970	1 350	1 620 x 1 100
1 400	1 630 x 1 120	1 500	1 800 x 1 200
1 600	1 880 x 1 260	1 650	1 950 x 1 320
1 800	2 130 x 1 400	1 800	2 100 x 1 450

Table C. Comparison of disapproved versus approved metal pipe sizes for §707-02, and §707-13, type II pipe (75 x 25 mm or 125 x 25 mm corrugations). All approved pipe sizes are new.

Disapproved Pipe Sizes "1995 Standard Contract Metric Pay Items"		Approved Pipe Sizes	
Equivalent Diameter (mm)	Span x Rise (mm)	Equivalent Diameter (mm)	Span x Rise (mm)
900	1 000 x 770		
1 000	1 100 x 850		
1 200	1 330 x 1 030		
1 400	1 550 x 1 200	1 350	1 520 x 1 170
1 600	1 780 x 1 360	1 500	1 670 x 1 300
1 800	2 080 x 1 530	1 650	1 850 x 1 400
2 000	2 230 x 1 700	1 800	2 050 x 1 500
2 200	2 500 x 1 830	1 950	2 200 x 1 620
2 400	2 800 x 1 950	2 100	2 400 x 1 720
2 700	3 300 x 2 080	2 250	2 600 x 1 820
3 000	3 650 x 2 280	2 400	2 840 x 1 920
		2 550	2 970 x 2 020
		2 700	3 240 x 2 120
		2 850	3 470 x 2 220
		3 000	3 600 x 2 320

Table D. Comparison of disapproved versus approved metal pipe sizes for §707-02, and §707-13, type IIR pipe (19 x 19 x 190 corrugations). **All approved pipe sizes are new.**

Disapproved Pipe Sizes "1995 Standard Contract Metric Pay Items"		Approved Pipe Sizes	
Equivalent Diameter (mm)	Span x Rise (mm)	Equivalent Diameter (mm)	Span x Rise (mm)
450	500 x 400	450	500 x 410
500	550 x 450	525	580 x 490
600	680 x 530	600	680 x 540
700	770 x 630	750	830 x 670
800	880 x 690	900	1 010 x 790
900	1 000 x 770	1 050	1 160 x 920
1 000	1 100 x 850	1 200	1 340 x 1 050
1 200	1 330 x 1 030	1 350	1 520 x 1 170
1 400	1 550 x 1 200	1 500	1 670 x 1 300
1 600	1 780 x 1 360		

Table 1 Disapproved 602.05xx M pay items.

Item No. 602.05xx M Corrugated Steel Pipe-Polymer Coated (68 x 13)					
Diameter (mm)	Gauge				
	16	14	12	10	8
300	.0509	.0510			
400	.0511	.0512			
450	.0514	.0515	.0516		
500	.0517	.0518	.0519		
600	.0520	.0521	.0522	.0523	
700	.052350	.052360	.052370	.052380	.052390
800	.0524	.0525	.0526	.0527	.0528
900	.0529	.0530	.0531	.0532	.0533
1 000	.0534	.0535	.0536	.0537	.0538
1 200	.0539	.0540	.0541	.0542	.0543
1400		.0545	.0546	.0547	.0548
1 600			.0551	.0552	.0553
1 800				.0555	.0556

Table 2 Disapproved 602.06xx M pay items.

Item No. 602.06xx M Corrugated Steel Pipe-Polymer Coated Paved Invert (68x13)						
Diameter (mm)	Gauge					
	18	16	14	12	10	8
300	.060850	.0609	.0610			
400	.061050	.0611	.0612			
450	.061350	.0614	.0615	.0616		
500	.061650	.0617	.0618	.0619		
600	.061950	.0620	.0621	.0622	.0623	
700		.062350	.062360	.062370	.062380	.062390
800		.0624	.0625	.0626	.0627	.0628
900		.0629	.0630	.0631	.0632	.0628
1 000		.0634	.0635	.0636	.0637	.0638
1 200		.0639	.0640	.0641	.0642	.0643
1 400			.0645	.0646	.0647	.0648
1 600				.0651	.0652	.0653
1 800					.0655	.0656

Table 3 Disapproved 602.08xx M pay items.

Item No. 602.08xx M Corrugated Steel Pipe-Arch, Polymer Coated (68x13)						
Equivalent Diameter (mm)	Span X Rise (mm)	Gauge				
		16	14	12	10	8
400	450 X 340	.0811	.0812			
450	510 X 380	.0814	.0815	.0816		
500	560 X 420	.0817	.0818	.0819		
600	680 X 500	.0820	.0821	.0822	.0823	
700	800 X 580	.082350	.082360	.082370	.082380	
800	910 X 660	.0824	.0825	.0826	.0827	.0828
900	1 030 X 740	.0829	.0830	.0831	.0832	.0833
1 000	1 150 X 820		.0835	.0836	.0837	.0838
1 200	1 390 X 970			.0841	.0842	.0843
1 400	1 630 X 1 120				.0845	.0846
1 600	1 880 X 1 260					.0850
1 800	2 130 X 1 400					.0855

Table 4 Disapproved 602.09xx M pay items.

Item No. 602.09xx M Corrugated Steel Pipe-Arch, Polymer Coated Paved Invert (68x13)						
Equivalent Diameter (mm)	Span X Rise (mm)					
		16	14	12	10	8
400	450 X 340	.0911	.0912			
450	510 X 380	.0914	.0915	.0916		
500	560 X 420	.0917	.0918	.0919		
600	680 X 500	.0920	.0921	.0922	.0923	
700	800 X 580	.092350	.092360	.092370	.092380	
800	910 X 660	.0924	.0925	.0926	.0927	.0928
900	1 030 X 740	.0929	.0930	.0931	.0932	.0933
1 000	1 150 X 820		.0935	.0936	.0937	.0938
1 200	1 390 X 970			.0941	.0942	.0943
1 400	1 630 X 1 120				.0945	.0946
1 600	1 880 X 1 260					.0950
1 800	2 130 X 1 400					.0955

Table 5 Disapproved 602.11xx M pay items.

Item No. 602.11xx M Corrugated Steel Pipe-Polymer Coated (75x25) or (125x25)					
Diameter (mm)	Gauge				
	16	14	12	10	8
1 400	.1144	.1145	.1146	.1147	.1148
1 600	.1149	.1150	.1151	.1152	.1153
1 800	.1155	.1156	.1157	.1158	.1159
2 000	.1160	.1161	.1162	.1163	.1164
2 200	.1165	.1166	.1167	.1168	.1169
2 400		.1170	.1171	.1172	.1173
2 700			.1175	.1176	.1177
3 000			.1180	.1181	.1182
3 300			.1185	.1186	.1187
3 600			.1190	.1191	.1192

Table 6 Disapproved 602.12xx M pay items.

Item No. 602.12xx M Corrugated Steel Pipe-Polymer Coated Paved Invert (75x25) or (125x25)					
Diameter (mm)	Gauge				
	16	14	12	10	8
1 400	.1244	.1245	.1246	.1247	.1248
1 600	.1249	.1250	.1251	.1252	.1253
1 800	.1255	.1256	.1257	.1258	.1259
2 000	.1260	.1261	.1262	.1263	.1264
2 200	.1265	.1266	.1267	.1268	.1269
2 400		.1270	.1271	.1272	.1273
2 700			.1275	.1276	.1277
3 000			.1280	.1281	.1282
3 300			.1285	.1286	.1287
3 600			.1290	.1291	

Table 7 Disapproved 602.14xx M pay items.

Item No. 602.14xx M Corrugated Steel Pipe-Arch, Polymer Coated (75x25) or (125x25)				
Equivalent Diameter (mm)	Span X Rise (mm)	Gauge		
		12	10	8
1 200	1 330 X 1 030	.1437	.1438	.1439
1 400	1 550 X 1 200	.1442	.1443	.1444
1 600	1 780 X 1 360	.1447	.1448	.1449
1 800	2 080 X 1 530	.1457	.1458	.1459
2 000	2 230 X 1 700	.1462	.1463	.1464
2 200	2 500 X 1 830	.1467	.1468	.1469
2 400	2 800 X 1 950	.1477	.1478	.1479
2 700	3 300 X 2 080		.1482	.1483
3 000	3 650 X 2 280		.1487	.1488

Table 8 Disapproved 602.15 pay items.

Item No. 602.15xx M Corrugated Steel Pipe-Arch, Polymer Coated Paved Invert (75x25) or (125x25)				
Equivalent Diameter (mm)	Span X Rise (mm)	Gauge		
		12	10	8
1 200	1 330 X 1 030	.1537	.1538	.1539
1 400	1 550 X 1 200	.1542	.1543	.1544
1 600	1 780 X 1 360	.1547	.1548	.1549
1 800	2 080 X 1 530	.1557	.1558	.1559
2 000	2 230 X 1 700	.1562	.1563	.1564
2 200	2 500 X 1 830	.1567	.1568	.1569
2 400	2 800 X 1 950	.1577	.1578	.1579
2 700	3 300 X 2 080		.1582	.1583
3 000	3 650 X 2 280		.1587	.1588

Table 9 Disapproved 603.05xx M pay items.

Item No. 603.05xx M Corrugated Steel Pipe						
Diameter (mm)	Gauge					
	18	16	14	12	10	8
300	.050850	.0509	.0510			
400	.051050	.0511	.0512			
450	.051350	.0514	.0515	.0516		
500	.051650	.0517	.0518	.0519		
600	.051950	.0520	.0521	.0522	.0523	
700		.052350	.052360	.052370	.052380	.052390
800		.0524	.0525	.0526	.0527	.0528
900		.0529	.0530	.0531	.0532	.0533
1 000		.0534	.0535	.0536	.0537	.0538
1 200		.0539	.0540	.0541	.0542	.0543
1 400			.0545	.0546	.0547	.0548
1 600				.0551	.0552	.0553
1 800					.0562	.0563

Table 10 Disapproved 603.06xx M pay items.

Item No. 603.06xx M Corrugated Steel Pipe Paved Invert (68x13)						
Diameter (mm)	Gauge					
	18	16	14	12	10	8
300	.060850	.0609	.0610			
400	.061050	.0611	.0612			
450	.061350	.0614	.0615	.0616		
500	.061650	.0617	.0618	.0619		
600	.061950	.0620	.0621	.0622	.0623	
700		.062350	.062360	.062370	.062380	.062390
800		.0624	.0625	.0626	.0627	.0628
900		.0629	.0630	.0631	.0632	.0633
1 000		.0634	.0635	.0636	.0637	.0638
1 200		.0639	.0640	.0641	.0642	.0643
1 400			.0645	.0646	.0647	.0648
1 600				.0651	.0652	.0653
1 800					.0662	.0663

Table 11 Disapproved 603.07xx M pay items.

Item No. 603.07xx M Corrugated Steel Pipe Fully Paved (68x13)						
Diameter (mm)	Gauge					
	18	16	14	12	10	8
300	.070850	.0709	.0710			
400	.071050	.0711	.0712			
450	.071350	.0714	.0715			
500	.071650	.0717	.0718	.0719		
600	.071950	.0720	.0721	.0722	.0723	
700		.072350	.072360	.072370	.072380	.072390
800		.0724	.0725	.0726	.0727	.0728
900		.0729	.0730	.0731	.0732	.0733
1 000		.0734	.0735	.0736	.0737	.0738
1 200		.0739	.0740	.0741	.0742	.0743
1 400			.0744	.0745	.0747	.0748
1 600				.0751	.0752	.0753
1 800					.0762	.0763

Table 12 Disapproved 603.08xx M pay items.

Item No. 603.08xx M Corrugated Steel Pipe Arch (68 x 13)						
Diameter (mm)	Span X Rise (mm)	Gauge				
		16	14	12	10	8
400	450 X 340	.0811	.0812			
450	510 X 380	.0814	.0815	.0816		
500	560 X 420	.0817	.0818	.0819		
600	680 X 500	.0820	.0821	.0822	.0823	
700	800 X 580	.082350	.082360	.082370	.082380	
800	910 X 660	.0824	.0825	.0826	.0827	.0828
900	1 030 X 740	.0829	.0830	.0831	.0832	.0833
1 000	1 150 X 820		.0835	.0836	.0837	.0838
1 200	1 390 X 970			.0841	.0842	.0843
1 400	1 630 X 1 120				.0847	.0848
1 600	1 880 X 1 260					.0853
1 800	2 130 X 1 400					.0862

Table 13 Disapproved 603.09xx M pay items.

Item No. 603.09xx M Corrugated Steel Pipe Arch Paved Invert (68 x 13)						
Diameter (mm)	Span X Rise (mm)	Gauge				
		16	14	12	10	8
400	450 X 340	.0911	.0912			
450	510 X 380	.0914	.0915	.0916		
500	560 X 420	.0917	.0918	.0919		
600	680 X 500	.0920	.0921	.0922	.0923	
700	800 X 580	.092350	.092360	.092370	.092380	
800	910 X 660	.0924	.0925	.0926	.0927	.0928
900	1 030 X 740	.0929	.0930	.0931	.0932	.0933
1 000	1 150 X 820		.0935	.0936	.0937	.0938
1 200	1 390 X 970			.0941	.0942	.0943
1 400	1 630 X 1 120				.0947	.0948
1 600	1 880 X 1 260					.0953
1 800	2 130 X 1 400					.0962

Table 14 Disapproved 603.10xx M pay items.

Item No. 603.10xx M Corrugated Steel Pipe Arch, Fully Paved (68 x 13)						
Diameter (mm)	Span X Rise (mm)	Gauge				
		16	14	12	10	8
400	450 X 340	.1011	.1012			
450	510 X 380	.1014	.1015	.1016		
500	560 X 420	.1017	.1018	.1019		
600	680 X 500	.1020	.1021	.1022	.1023	
700	800 X 580	.102350	.102360	.102370	.102380	
800	910 X 660	.1024	.1025	.1026	.1027	.1028
900	1030 X 740	.1029	.1030	.1031	.1032	.1033
1 000	1 150 X 820		.1035	.1036	.1037	.1038
1 200	1 390 X 970			.1041	.1042	.1043
1 400	1 630 X 1 120				.1047	.1048
1 600	1 880 X 1 260					.1053
1 800	2 130 X 1 400					.1062

Table 15 Disapproved 603.11xx M pay items.

Item No. 603.11xx M Corrugated Steel Pipe (75 x 25) or (125 x 25)					
Diameter (mm)	Gauge				
	16	14	12	10	8
1 400	.1144	.1145	.1146	.1147	.1148
1 600	.1149	.1150	.1151	.1152	.1153
1 800	.1159	.1160	.1161	.1162	.1163
2 000	.1164	.1165	.1166	.1167	.1168
2 200	.1169	.1170	.1171	.1172	.1173
2 400		.1180	.1181	.1182	.1183
2 700			.1185	.1186	.1187
3 000			.1190	.1191	.1192
3 300			.1193	.1194	.1195
3 600			.1196	.1197	.1198

Table 16 Disapproved 603.12xx M pay items.

Item No. 603.12xx M Corrugated Steel Pipe Paved Invert (75 x 25) or (125 x 25)					
Diameter (mm)	Gauge				
	16	14	12	10	8
1 400	.1244	.1245	.1246	.1247	.1248
1 600	.1249	.1250	.1251	.1252	.1253
1 800	.1259	.1260	.1261	.1262	.1263
2 000	.1264	.1265	.1266	.1267	.1268
2 200	.1269	.1270	.1271	.1272	.1273
2 400		.1280	.1281	.1282	.1283
2 700			.1285	.1286	.1287
3 000			.1290	.1291	.1292
3 300			.1293	.1294	.1295
3 600			.1296	.1297	.1298

Table 17 Disapproved 603.13xx M pay items.

Item No. 603.13xx M Corrugated Steel Pipe Fully Paved (75 x 25) or (125 x 25)					
Diameter (mm)	Gauge				
	16	14	12	10	8
1 400	.1344	.1345	.1346	.1347	.1348
1 600	.1349	.1350	.1351	.1352	.1353
1 800	.1359	.1360	.1361	.1362	.1363
2 000	.1364	.1365	.1366	.1367	.1368
2 200	.1369	.1370	.1371	.1372	.1373
2 400		.1380	.1381	.1382	.1383
2 700			.1385	.1386	.1387
3 000			.1390	.1391	.1392
3 300			.1393	.1394	.1395
3 600			.1396	.1397	.1398

Table 18 Disapproved 603.14xx M pay items.

Item No. 603.14xx M Corrugated Steel Pipe Arch (75 x 25) or (125 x 25)				
Equivalent Diameter (mm)	Span X Rise (mm)	Gauge		
		12	10	8
1 200	1 330 X 1 030	.1437	.1438	.1439
1 400	1 550 X 1 200	.1442	.1443	.1444
1 600	1 780 X 1 360	.1447	.1448	.1449
1 800	2 080 X 1 530	.1457	.1458	.1459
2 000	2 230 X 1 700	.1462	.1463	.1464
2 200	2 500 X 1 830	.1467	.1468	.1469
2 400	2 800 X 1 950	.1477	.1478	.1479
2 700	3 300 X 2 080		.1483	.1484
3 000	3 650 X 2 280		.1488	.1489

Table 19 Disapproved 603.15xx M pay items.

Item No. 603.15xx M Corrugated Steel Pipe Arch Paved Invert (75 x 25) or (125 x 25)				
Equivalent Diameter (mm)	Span X Rise (mm)	Gauge		
		12	10	8
1 200	1 330 X 1 030	.1537	.1538	.1539
1 400	1 550 X 1 200	.1542	.1543	.1544
1 600	1 780 X 1 360	.1547	.1548	.1549
1 800	2 080 X 1 530	.1557	.1558	.1559
2 000	2 230 X 1 700	.1562	.1563	.1564
2 200	2 500 X 1 830	.1567	.1568	.1569
2 400	2 800 X 1 950	.1577	.1578	.1579
2 700	3 300 X 2 080		.1583	.1584
3 000	3 650 X 2 280		.1588	.1589

Table 20 Disapproved 603.17xx M pay items.

Item No. 603.17xx M Galvanized Steel End Sections Pipe (68 x 13)				
Diameter (mm)	Gauge			
	16	14	12	10
300	.1709			
400	.1711			
450	.1714			
500	.1717			
600	.1720			
700		.1723		
800		.1725		
900		.1730		
1 000			.1736	
1 200			.1741	
1 400			.1746	
1 600			.1751	.1752
1 800			.1761	.1762
2 000			.1766	.1767
2 200			.1771	.1772
2 400				.1777

Table 21 Disapproved 603.18xx M pay items.

Item No. 603.18xx M Galvanized Steel End Sections Pipe Arch (68 x 13)				
Span X Rise (mm)	Gauge			
	16	14	12	10
450 X 340	.1811			
510 X 380	.1814			
560 X 420	.1817			
680 X 500	.1820			
800 X 580		.1823		
910 X 660		.1825		
1 030 X 740		.1830		
1 150 X 820			.1836	
1 390 X 9 70			.1841	
1 630 X 1 120			.1846	
1 880 X 1 260			.1851	.1852
2 130 X 1 400			.1861	.1862

Table 22 Disapproved 603.20xx M pay items.

Item No. 603.20xx M Galvanized Steel End Sections Pipe Arch (75x25) or (125x25)		
Span X Rise	Gauge	
	14	12
1 000 X 770	.2026	
1 100 X 850		.2032
1 330 X 1 030		.2037
1 550 X 1 200		.2042
1 780 X 1 360		.2047
2 080 X 1 530		.2057

Table 23 Disapproved 603.21xx M pay items.

Item No. 603.21xx M Smooth Lined Corrugated Steel Pipe (68 x 13)						
Diameter (mm)	Gauge					
	18	16	14	12	10	8
300	.2108	.2109	.2110			
400	.211050	.2111	.2112			
450	.2113	.2114	.2115	.2116		
500	.211650	.2117	.2118	.2119		
600	.211950	.2120	.2121	.2122	.2123	
700		.212350	.212360	.212370	.212380	.212390
800		.2124	.2125	.2126	.2127	.2128
900		.2129	.2130	.2131	.2132	.2133
1 000		.2134	.2135	.2136	.2137	.2138
1 200		.2139	.2140	.2141	.2142	.2143
1 400			.2145	.2146	.2147	.2148
1 600				.2151	.2152	.2153
1 800					.2162	.2163

Table 24 Disapproved 603.22xx M pay items.

Item No. 603.22xx M Smooth Lined Corrugated Steel Pipe (75 x 25) or (125 x 25)					
Diameter (mm)	Gauge				
	16	14	12	10	8
1 400	.2244	.2245	.2246	.2247	.2248
1 600	.2249	.2250	.2251	.2252	.2253
1 800	.2259	.2260	.2261	.2262	.2263
2 000	.2264	.2265	.2266	.2267	.2268
2 200	.2269	.2270	.2271	.2272	.2273
2 400		.2280	.2281	.2282	.2283
2 700			.2284	.2285	.2286
3 000			.2287	.2288	.2289
3 300			.2290	.2291	.2292
3 600			.2293	.2294	.2295

Table 25 Disapproved 603.40xx M pay items.

Item No. 603.40xx M Round Corrugated Aluminum Pipe (68 x 13) (300 -700 Diam.)				
Diameter (mm)	Gauge			
	16	14	12	10
300	.400105	.400104	.400103	
400	.400205	.400204	.400203	
450	.400305	.400304	.400303	
500	.400405	.400404	.400403	
600	.400505	.400504	.400503	
700	.400705	.400704	.400703	.400702

Table 26 Disapproved 603.41xx M pay items.

Item No. 603.41xx M Round Corrugated Aluminum Pipe (75 x 25) (800-2400 Diam.)					
Diameter (mm)	Gauge				
	16	14	12	10	8
800	.410005	.410004	.410003	.410002	
900	.410105	.410104	.410103	.410102	
1 000	.410205	.410204	.410203	.410202	
1 200	.410305	.410304	.410303	.410302	.410301
1 400		.410404	.410403	.410402	.410401
1 600		.410504	.410503	.410502	.410501
1 800			.410703	.410702	.410701
2 000			.410803	.410802	.410801
2 200			.410903	.410902	.410901
2 400			.411103	.411102	.411101

Table 27 Disapproved 603.53xx M pay items.

Item No. 603.53xx M Corrugated Aluminum Pipe-Type IIR				
Span X Rise (mm)	Gauge			
	16	14	12	10
500 X 400	.5301	.5302		
550 X 450	.5303	.5304	.5305	
680 X 530	.5306	.5307	.5308	
770 X 630	.5309	.5310	.5311	
880 X 690	.5312	.5313	.5314	
1 000 X 770	.5315	.5316	.5317	.5318
1 100 X 850			.5319	.5320
1 330 X 1 030			.5321	.5322
1 550 X 1 200			.5323	.5324
1 780 X 1 360			.5325	.5326

Table 28 Disapproved 603.54xx M pay items.

Item No. 603.54xx M Corrugated Aluminum End Sections Pipe				
Diameter (mm)	Gauge			
	16	14	12	10
300	.5404			
400	.5405			
450	.5406			
500	.5407			
600		.5408		
700		.5409		
800		.5410		
900			.5412	
1 000			.5414	
1 200			.5416	
1 400			.5418	
1 600			.5420	
1 800			.5424	
2 000				.5426
2 200			.5428	