

SUMMARY OF EARTHWORK QUANTITIES

STATION TO STATION	ROADWAY	EXCAVATION								COMPACTION IN FILL ⑥		THROUGH EARTH CUTS ⑥		THROUGH OVER EXC. ⑦		⑧ GRANULAR BACKFILL ⑧	EMBANKMENT ④ (CONTRACTOR FURNISHED) Cu.M.	WASTE ⑨ ROCK Cu.M.	SELECT SOIL (CONTRACTOR FURNISHED) Cu.M. ⑤	
		COMMON ⑥		COMMON (CON.FURN.) ⑥		UNCLASSIFIED ⑦		ROCK ②		AA (MR-3-3)	B (MR-3-3)	COMMON EXC.	AA (MR-3-3)	AA (MR-3-3)	B (MR-3-3)					
		Cu.M.	VMF	Cu.M.	VMF	Cu.M.	VMF	Cu.M.	VMF	Cu.M.	Cu.M.	Cu.M.	Cu.M.	Cu.M.	Cu.M.					
14+000	15+558	Mainline	660	0.80	57148	0.80	1096	0.80	7836	---	22577	37517	2795	2795	63	548	12223	60095	7773	13149
		Frontage Road Left	3629	0.80	0	0.80	0	0.80	---	---	671	5535	---	---	19	0	0	6206	---	---
		Frontage Road Right	10169	0.80	0	0.80	184	0.80	5	---	278	4834	---	---	26	82	0	5112	---	---
		Temp. Pvm. & Shoo-Flys	1075	0.80	0	0.80	0	0.80	---	---	0	573	---	---	0	0	0	573	---	---
15+666	15+958	Mainline	6	0.80	45190	0.80	5810	0.80	1790	---	18992	36339	0	0	0	5810	14329	55331	1790	4663
		Frontage Road Left	2812	0.80	0	0.80	3433	0.80	---	---	400	2121	---	---	4	3429	0	2521	---	---
		Frontage Road Right	1256	0.80	0	0.80	0	0.80	---	---	76	5195	---	---	0	0	0	5270	---	---
		Temp. Pvm. & Shoo-Flys	18	0.80	0	0.80	0	0.80	---	---	0	72	---	---	0	0	0	72	---	---
16+065	17+267	Mainline	5582	0.80	89693	0.80	19287	0.80	8410	---	37778	63900	7690	7690	721	18566	22231	101678	8410	23958
		Frontage Road Left	9943	0.80	0	0.80	2099	0.80	4	---	992	9134	---	---	853	18,987	0	10126	---	---
		Frontage Road Right	7899	0.80	0	0.80	1730	0.80	8	---	135	3845	---	---	0	865	0	3981	---	---
		Temp. Pvm. & Shoo-Flys	29	0.80	0	0.80	0	0.80	---	---	0	19	---	---	0	0	0	19	---	---
17+398	18+460	Mainline	5059	0.80	41098	0.80	552	0.80	7988	---	22931	33412	6215	6215	0	276	13744	56343	7988	15402
		Frontage Road Left	4511	0.80	0	0.80	0	0.80	30	---	5	1565	---	---	21	0	0	1570	---	---
		Frontage Road Right	4196	0.80	0	0.80	0	0.80	24	---	0	230	---	---	0	0	0	230	---	---
		Temp. Pvm. & Shoo-Flys	132	0.80	0	0.80	0	0.80	---	---	0	13	---	---	0	0	0	13	---	---
3+670	4+495	Maize Road	12241	0.80	0	0.80	---	---	3785	---	324	3547	---	---	---	---	---	3871	3785	---
4+811	5+788	Tyler Road	9436	0.80	0	0.80	726	80	4163	---	15	1637	---	---	7	363	---	1652	4159	---
5+045	5+069	Lark Lane	115	0.80	0	0.80	---	---	70	---	0	12	---	---	4	---	---	12	61	---
4+930	4+964	Seville	239	0.80	0	0.80	---	---	59	---	0	80	---	---	---	---	---	80	59	---
5+036	5+072		385	0.80	0	0.80	500	80	141	---	0	18	---	---	---	250	---	18	141	---
5+040	5+076	Irving	247	0.80	0	0.80	---	---	75	---	0	2	---	---	---	---	---	2	75	---
4+900	4+969	Woodchuck	326	0.80	0	0.80	---	---	128	---	0	91	---	---	---	---	---	91	128	---
4+927	4+956	Holland	84	0.80	0	0.80	---	---	107	---	0	17	---	---	---	---	---	17	107	---
4+920	5+100	Cowskin Creek Channel	14397	0.80	0	0.80	---	---	---	---	0	1724	---	---	---	---	---	1724	---	---
5+070	5+133	Channel Rt. Sta. 14+427	264	0.80	0	0.80	---	---	---	---	0	0	---	---	---	---	---	0	---	---
4+910	4+960	Channel Lt. Sta. 17+090	770	0.80	0	0.80	---	---	---	---	0	1	---	---	---	---	---	1	---	---
4+925	4+984	111th Street																		
TOTALS			95,475 ⑥		233,129 ⑦		49,774 ①		34,476 ②		105,174 ⑥	211,433 ⑥	16,699 ⑥	16,699 ⑥	1479	46,694	62,526 ⑧	316,607 ④	34,476 ⑨	57,172 ⑤

⑥ FOR INFORMATION ONLY. THESE ITEMS ARE NOT BID ITEMS AND WILL NOT BE BID SEPARATELY.

① QUANTITIES FOR "UNCLASSIFIED EXCAVATION" AND THE VARIOUS TYPES OF COMPACTION "THROUGH OVER EXCAVATION" ARE FOR THE REMOVAL AND REPLACEMENT OF LOOSE FILL AND CONCRETE RUBBLE WHICH WAS ENCOUNTERED DURING THE SOILS INVESTIGATION FOR THE PROJECT. SEE "COMPACTION OF EARTHWORK" SHEET NO. 12 FOR ADDITIONAL INFORMATION AND ESTIMATED LIMITS OF THIS WORK. THE QUANTITIES FOR THIS WORK ARE ESTIMATED AND WILL BE MEASURED BY THE ENGINEER DURING CONSTRUCTION.

② ROCK EXCAVATION SHOWN IS FOR PAVEMENT REMOVAL.

③ THE GRANULAR BACKFILL QUANTITY SHOWN IS FOR THE "CAST-IN-PLACE (C.I.P.) RETAINING WALL" ALTERNATE. THE QUANTITIES SHOWN FOR "EMBANKMENT (CONTRACTOR FURNISHED)" AND "TYPE AA COMPACTION IN FILL" INCLUDE THE GRANULAR BACKFILL VOLUME. QUANTITIES HAVE NOT BEEN ESTIMATED FOR THE AMOUNT OF "SELECT GRANULAR BACKFILL" REQUIRED FOR THE "MECHANICALLY STABILIZED EARTH (M.S.E.) RETAINING WALL" ALTERNATE. REGARDLESS OF THE RETAINING WALL ALTERNATE SELECTED, NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR GRANULAR OR SELECT GRANULAR BACKFILL REQUIRED FOR THE RETAINING WALLS. THIS MATERIAL IS INCLUDED IN "EMBANKMENT (C.F.)".

④ THE QUANTITY FOR "EMBANKMENT (CONTRACTOR FURNISHED)" INCLUDES GRANULAR BACKFILL FOR THE C.I.P. RETAINING WALLS. QUANTITIES FOR INITIAL CONSOLIDATION AND SETTLEMENT ARE NOT INCLUDED AND SHALL BE SUBSIDIARY TO THIS BID ITEM. THE QUANTITY FOR "EMBANKMENT (CONTRACTOR FURNISHED)" IS MEASURED FROM THE ORIGINAL GROUND LINE OR THE BOTTOM OF THE ROCK EXCAVATION LIMITS (PAVEMENT REMOVAL) WHICHEVER APPLIES, TO THE TOP OF THE FINISHED SUBGRADE OR FINAL GROUND LINE.

⑤ APPROXIMATELY 57,172 CU. METERS OF "SELECT SOIL" IS REQUIRED FOR THE TOP 450 mm OF SUBGRADE ON MAINLINE KELLOGG AND THE RAMPS. REQUIREMENTS FOR THIS MATERIAL ARE SHOWN ON SHEET NO. 12. THIS MATERIAL IS REQUIRED UNDER ALL OF MAINLINE AND RAMP CONCRETE PAVEMENT THAT HAS A THICKNESS OF 260mm.

QUANTITIES SHOWN FOR "COMMON EXCAVATION" ARE FOR EXCAVATION FROM WITHIN THE PROJECT LIMITS EXCEPT AS STATED IN NOTE ① ABOVE. QUANTITIES SHOWN FOR "COMMON EXCAVATION (CONTRACTOR FURNISHED)" ARE THE AMOUNT OF OFF-SITE MATERIAL REQUIRED TO COMPLETE THE EMBANKMENT. IT DOES NOT INCLUDE QUANTITIES FOR THE GRANULAR BACKFILL MATERIAL FOR THE RETAINING WALLS.

NO VMF (VOLUME MULTIPLICATION FACTOR) HAS BEEN APPLIED TO COMPACTION THROUGH EARTH CUTS. ADDITIONAL EXCAVATION WHICH MAY BE REQUIRED TO MAKE UP FOR SHRINKAGE OF COMPACTED SOILS SHALL BE SUBSIDIARY TO THE BID ITEM "EMBANKMENT (CONTRACTOR FURNISHED)".

MATERIAL PLACED IN TEMPORARY CONSTRUCTION OR DRAINAGE EASEMENTS SHALL BE FREE OF RUBBLE AND COMPACTED AS SPECIFIED ON THE COMPACTION OF EARTHWORK DIAGRAMS.

ADDITIONAL EXCAVATION AND/OR EMBANKMENT, NOT SHOWN ON THE PLANS, REQUIRED FOR STAGED CONSTRUCTION INCLUDING DETOURS AND WIDENING SHALL NOT BE MEASURED OR PAID FOR SEPARATELY BUT SHALL BE SUBSIDIARY TO THE BID ITEM "EMBANKMENT (CONTRACTOR FURNISHED)".

NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR PLACING TOPSOIL. QUANTITIES FOR TOPSOIL IN FILL ARE INCLUDED IN THE EMBANKMENT QUANTITIES. EXCAVATION FOR PLACING TOPSOIL THROUGH CUTS IS NOT INCLUDED IN THE COMMON EXCAVATION QUANTITIES AND SHALL BE SUBSIDIARY TO THE BID ITEM "EMBANKMENT (CONTRACTOR FURNISHED)".

THIS PROJECT WILL NOT INCLUDE PAYMENT FOR OVERHAUL. STOCKPILING OF EXCAVATED MATERIAL DUE TO STAGED CONSTRUCTION AND/OR DOUBLE HANDLING OF EXCAVATED MATERIAL REQUIRED TO COMPLETE THE EMBANKMENT, INCLUDING TOP SOIL, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE SUBSIDIARY TO THE BID ITEM "EMBANKMENT (CONTRACTOR FURNISHED)".

⑥ INCLUDES 4,732 CU. METERS HAULED TO OVEREXCAVATION AREA DISCUSSED IN NOTE ①

⑦ INCLUDES 6,275 CU. METERS USED IN OVEREXCAVATION AREA DISCUSSED IN NOTE ①

CITY OF WICHITA			
SUMMARY OF EARTHWORK QUANTITIES			
SEDGWICK COUNTY			
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Designed by	JPS	Checked by	WDH
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RECORD DRAWING