

SUMMARY OF EARTHWORK QUANTITIES

| STATION TO STATION | ROADWAY | EXCAVATION | | | | | | | | COMPACTION IN FILL ⑥ | | THROUGH EARTH CUTS ⑥ | | THROUGH OVER EXC. ⑦ | | ③ GRANULAR BACKFILL ③ | EMBANKMENT ④ (CONTRACTOR FURNISHED) Cu.M. | WASTE ⑥ 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 | 0.80 | 0.80 | 7936 | --- | 22577 | 37517 | 2795 | 2795 | 63 | 548 | 12223 | 60095 | 7773 | 13149 | |
| | | Frontage Road Left | 3629 | 0.80 | 0 | 0.80 | 0.80 | 0.80 | 7773 | --- | 671 | 5535 | --- | --- | 19 | 0 | 0 | 6206 | --- | --- | |
| | | Frontage Road Right | 10169 | 0.80 | 0 | 0.80 | 0.80 | 0.80 | 184 | --- | 278 | 4834 | --- | --- | 26 | 92 | 0 | 5112 | --- | --- | |
| | | Temp. Pvmt. & Shoo-Flys | 1075 | 0.80 | 0 | 0.80 | 0.80 | 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. Pvmt. & 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 | 7680 | 7690 | 721 | 18566 | 22231 | 101678 | 8410 | 23958 | |
| | | Frontage Road Left | 9943 | 0.80 | 0 | 0.80 | 20999 | 0.80 | 20805 | --- | 992 | 9134 | --- | --- | 853 | 18,987 | 18890 | 10126 | --- | --- | |
| | | Frontage Road Right | 7899 | 0.80 | 0 | 0.80 | 1730 | 0.80 | 8 | --- | 135 | 3845 | --- | --- | 0 | 865 | 0 | 3981 | --- | --- | |
| | | Temp. Pvmt. & 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 | 21 | --- | 0 | 230 | --- | --- | 0 | 0 | 0 | 230 | --- | --- | |
| | | Temp. Pvmt. & 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 | 0.80 | 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 | 0.80 | 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 | | 49,334 ① | | 34,476 ② | | 105,174 ⑥ | 211,433 ⑥ | 16,699 ⑥ | 16,699 ⑥ | 31 ③ | 1749 ③ | 49,185 ③ | 62,526 ③ | 316,607 ④ | 34,476 ⑥ | 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 "EMBANKMENTS (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

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CITY OF WICHITA

SUMMARY OF EARTHWORK QUANTITIES

SEDGWICK COUNTY

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
 316-262-2691 • FAX 316-262-3003

| | | | |
|-------------|-----|------------|--------------|
| Designed by | JPS | Checked by | WDH |
| Drawn by | JSB | Date | Apr 11, 2002 |
| | | Job No. | 97362 |