

EARTHWORK SCHEDULE

| LOCATION | DESCRIPTION | EARTHWORK SCHEDULE | | | | | | | | | | | | |
|----------------------|--------------------|--------------------|----------------|--------------------|---------------|-------------------|----------------|--------------------|----------------|---------------|----------------------------------|------------------|----------------------------|----------------------|
| | | THEORETICAL | | TOPSOIL ADJUSTMENT | | TOPSOIL PLACEMENT | | ADJUSTED EARTHWORK | | | TOPSOIL EXCAVATION AND PLACEMENT | EXCESS (BORROW) | CUMAL TIVE EXCESS (BORROW) | FURNISHED EXCAVATION |
| | | CUT | FILL | 4" CUT | 4" FILL | 4" CUT | FILL | FILL x 1.25 | | | | | | |
| CU YD | | SO YD | | CU YD | | | | | | | | | | |
| STAGE 1 | | | | | | | | | | | | | | |
| MAINLINE | 927+00 TO 940+00 | 3,706 | 207 | 185 | 0 | 1,665 | 3,891 | 207 | 259 | 185 | 3,447 | 3,447 | (2,758) | |
| | 940+00 TO 955+00 | 24,491 | 34,965 | 981 | 668 | 14,841 | 25,472 | 34,297 | 42,871 | 1,649 | (19,048) | (15,601) | 15,239 | |
| | 955+00 TO 970+00 | 90,137 | 39,326 | 1,643 | 2,066 | 33,381 | 91,780 | 37,260 | 46,575 | 3,709 | 41,496 | 25,895 | (33,197) | |
| | 970+00 TO 985+00 | 64,333 | 16,763 | 925 | 236 | 10,449 | 65,258 | 16,527 | 20,659 | 1,161 | 43,438 | 69,333 | (34,751) | |
| | 985+00 TO 1000+00 | 13,759 | 7,588 | 610 | 251 | 7,749 | 14,369 | 7,337 | 9,171 | 861 | 4,337 | 73,670 | (3,469) | |
| | 1000+00 TO 1015+00 | 1,043 | 19,443 | 269 | 437 | 6,354 | 1,312 | 19,006 | 23,758 | 706 | (23,152) | 50,519 | 18,521 | |
| | 1015+00 TO 1030+00 | 2,233 | 14,349 | 375 | 332 | 6,363 | 2,608 | 14,017 | 17,521 | 707 | (15,620) | 34,898 | 12,496 | |
| | 1030+00 TO 1045+00 | 4,067 | 7,893 | 587 | 158 | 6,705 | 4,654 | 7,735 | 9,669 | 745 | (5,760) | 29,139 | 4,608 | |
| | 1045+00 TO 1060+00 | 7,421 | 6,904 | 649 | 150 | 7,191 | 8,070 | 6,754 | 8,443 | 799 | (1,172) | 27,967 | 937 | |
| | 1060+00 TO 1075+00 | 49,490 | 4,724 | 971 | 82 | 9,477 | 50,461 | 4,642 | 5,803 | 1,053 | 43,606 | 71,573 | (34,884) | |
| | 1075+00 TO 1090+00 | 102,081 | 3,423 | 1,518 | 97 | 14,535 | 103,599 | 3,326 | 4,158 | 1,615 | 97,827 | 169,399 | (78,261) | |
| | 1090+00 TO 1105+00 | 57,289 | 58,698 | 1,055 | 885 | 17,460 | 58,344 | 57,813 | 72,266 | 1,940 | (15,862) | 153,537 | 12,690 | |
| | 1105+00 TO 1120+00 | 29,860 | 14,223 | 771 | 365 | 10,224 | 30,631 | 13,858 | 17,323 | 1,136 | 12,173 | 165,709 | (9,738) | |
| | 1120+00 TO 1135+00 | 23,282 | 44,231 | 6,833 | 612 | 67,005 | 30,115 | 43,619 | 54,524 | 7,445 | (31,854) | 133,856 | 25,483 | |
| | 1135+00 TO 1150+00 | 3,934 | 59,337 | 550 | 827 | 12,393 | 4,484 | 58,510 | 73,138 | 1,377 | (70,031) | 63,825 | 56,024 | |
| | 1150+00 TO 1165+00 | 2,062 | 44,070 | 410 | 914 | 11,916 | 2,472 | 43,156 | 53,945 | 1,324 | (52,797) | 11,028 | 42,238 | |
| | 1165+00 TO 1174+00 | 1,878 | 19,895 | 176 | 329 | 4,545 | 2,054 | 19,566 | 24,458 | 505 | (22,909) | (11,881) | 18,327 | |
| TR 198 | | 1,179 | 27 | 39 | 8 | 423 | 1,218 | 19 | 24 | 47 | 1,147 | (10,733) | (918) | |
| TR 222 | | 162 | 734 | 27 | 9 | 324 | 189 | 725 | 906 | 36 | (753) | (11,487) | 603 | |
| TR 232 | | 301 | 158 | 49 | 20 | 621 | 350 | 138 | 173 | 69 | 109 | (11,378) | (87) | |
| CH 17 | | 124 | 15 | 17 | 2 | 171 | 141 | 13 | 16 | 19 | 106 | (11,272) | (85) | |
| ACCESS ROAD #2 | | 1,864 | 1,341 | 472 | 178 | 5,850 | 2,336 | 1,163 | 1,454 | 650 | 232 | (11,040) | (186) | |
| STAGE 1 TOTAL | | 484,696 | 398,314 | 19,112 | 8,626 | 249,642 | 503,808 | 389,688 | 487,110 | 27,738 | (11,040) | (11,040) | 8,832 | |
| STAGE 2 | | | | | | | | | | | | | | |
| MAINLINE | 927+00 TO 940+00 | 291 | 4,372 | 213 | 322 | 4,815 | 504 | 4,050 | 5,063 | 535 | (5,094) | (5,094) | 4,075 | |
| | 940+00 TO 955+00 | 9,970 | 1,412 | 1,773 | 68 | 16,569 | 11,743 | 1,344 | 1,680 | 1,841 | 8,222 | 3,129 | (6,578) | |
| | 955+00 TO 970+00 | 12,919 | 517 | 1,493 | 80 | 14,157 | 14,412 | 437 | 546 | 1,573 | 12,293 | 15,421 | (9,834) | |
| | 970+00 TO 985+00 | 23,449 | 5,465 | 1,176 | 267 | 12,987 | 24,625 | 5,198 | 6,498 | 1,443 | 16,685 | 32,106 | (13,348) | |
| | 985+00 TO 1000+00 | 3,185 | 4,480 | 513 | 206 | 6,471 | 3,698 | 4,274 | 5,343 | 719 | (2,364) | 29,742 | 1,891 | |
| TR 198 | | 485 | 833 | 387 | 39 | 3,834 | 872 | 794 | 993 | 426 | (547) | 29,196 | 437 | |
| STAGE 2 TOTAL | | 50,299 | 17,079 | 5,555 | 982 | 58,833 | 55,854 | 16,097 | 20,121 | 6,537 | 29,196 | 29,196 | (23,357) | |
| STAGE 3 | | | | | | | | | | | | | | |
| MAINLINE | 988+00 TO 1000+00 | 724 | 7,161 | 153 | 439 | 5,328 | 877 | 6,722 | 8,403 | 592 | (8,118) | (8,118) | 6,494 | |
| | 1000+00 TO 1015+00 | 2,333 | 17,641 | 659 | 756 | 12,735 | 2,992 | 16,885 | 21,106 | 1,415 | (19,529) | (27,647) | 15,623 | |
| | 1015+00 TO 1030+00 | 4,210 | 14,930 | 588 | 708 | 11,664 | 4,798 | 14,222 | 17,778 | 1,296 | (14,276) | (41,922) | 11,420 | |
| | 1030+00 TO 1045+00 | 1,533 | 13,292 | 693 | 626 | 11,871 | 2,226 | 12,666 | 15,833 | 1,319 | (14,926) | (56,848) | 11,940 | |
| | 1045+00 TO 1060+00 | 6,089 | 11,803 | 835 | 529 | 12,276 | 6,924 | 11,274 | 14,093 | 1,364 | (8,533) | (65,380) | 6,826 | |
| | 1060+00 TO 1075+00 | 25,383 | 2,289 | 1,294 | 243 | 13,833 | 26,677 | 2,046 | 2,558 | 1,537 | 22,583 | (42,798) | (18,066) | |
| | 1075+00 TO 1090+00 | 36,570 | 6,372 | 1,102 | 457 | 14,031 | 37,672 | 5,915 | 7,394 | 1,559 | 28,719 | (14,079) | (22,975) | |
| | 1090+00 TO 1105+00 | 12,932 | 81,500 | 613 | 1,794 | 21,663 | 13,545 | 79,706 | 99,633 | 2,407 | (88,495) | (102,573) | 70,796 | |
| | 1105+00 TO 1120+00 | 3,860 | 11,760 | 1,102 | 549 | 14,859 | 4,962 | 11,211 | 14,014 | 1,651 | (10,703) | (113,276) | 8,562 | |
| | 1120+00 TO 1135+00 | 1,007 | 5,927 | 559 | 723 | 11,538 | 1,566 | 5,204 | 6,505 | 1,282 | (6,221) | (119,497) | 4,977 | |
| | 1135+00 TO 1150+00 | 522 | 708 | 469 | 0 | 4,221 | 991 | 708 | 885 | 469 | (363) | (119,860) | 290 | |
| | 1150+00 TO 1165+00 | 464 | 13,708 | 255 | 9 | 2,376 | 719 | 13,699 | 17,124 | 264 | (16,669) | (136,529) | 13,335 | |
| | 1165+00 TO 1174+00 | 424 | 18 | 222 | 18 | 2,160 | 646 | 0 | 0 | 240 | 406 | (136,123) | (325) | |
| TR 232 | | 351 | 270 | 50 | 62 | 1,008 | 401 | 208 | 260 | 112 | 29 | (136,094) | (23) | |
| CH 28 | | 452 | 5,858 | 2 | 5 | 63 | 454 | 5,853 | 7,316 | 7 | (6,869) | (142,963) | 5,495 | |
| STAGE 3 TOTAL | | 96,854 | 193,237 | 8,596 | 6,918 | 139,626 | 105,450 | 186,319 | 232,899 | 15,514 | (142,963) | (142,963) | 114,370 | |
| PROJECT TOTAL | | 631,849 | 608,630 | 33,263 | 16,526 | 448,101 | 665,112 | 592,104 | 740,130 | 49,789 | (124,807) | (124,807) | 99,846 | |

| ESTIMATED QUANTITIES | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|
| ITEMS | UNIT | TOTAL |
| THE FOLLOWING ITEMS INCLUDE ESTIMATED QUANTITIES FOR HANDLING FIELD TILES ACROSS MAINLINE (SEE SPECIAL PROVISIONS) | | |
| EXPLORATORY TRENCH, 52" DEPTH | FOOT | 1,500 |
| MISCELLANEOUS CONCRETE | CU YD | 50 |
| STORM SEWER (SPECIAL) 6" | FOOT | 4,000 |
| STORM SEWER (SPECIAL) 8" | FOOT | 1,000 |
| STORM SEWER (SPECIAL) 10" | FOOT | 1,000 |
| STORM SEWER (SPECIAL) 12" | FOOT | 1,000 |
| PIPE DRAINS - 6" | FOOT | 400 |
| PIPE DRAINS - 8" | FOOT | 400 |
| PIPE DRAINS - 10" | FOOT | 200 |
| PIPE DRAINS - 12" | FOOT | 200 |
| PIPE DRAINS - 15" | FOOT | 200 |
| TRENCH BACKFILL | CU YD | 500 |
| THE FOLLOWING ITEMS INCLUDE ESTIMATED QUANTITIES FOR HANDLING TEMPORARY EROSION CONTROL (SEE SPECIAL PROVISIONS) | | |
| SEEDING, CLASS 7 | ACRE | 40 |
| MULCH METHOD 1 | ACRE | 40 |
| TEMPORARY DITCH CHECKS | EACH | 100 |
| AGGREGATE (EROSION CONTROL) | TON | 1,500 |
| TEMPORARY EROSION CONTROL SEEDING | LBS | 45,000 |
| INLET AND PIPE PROTECTION | EACH | 30 |
| PERIMETER EROSION BARRIER | FOOT | 9,500 |
| EARTH EXCAVATION FOR EROSION CONTROL | CU YD | 500 |
| THE FOLLOWING ITEMS INCLUDE ESTIMATED QUANTITIES FOR HANDLING PERMANENT SEEDING AFTER TEMPORARY/TEMPORARY EROSION CONTROL SEEDING HAS BEEN PLACED AND ESTABLISHED ON FINISHED HIGHLY ERODABLE SLOPES (TO AVOID FURTHER GROUND DISTURBANCE) | | |
| MOWING | ACRE | 20 |
| INTERSEEDING, CLASS 2 | ACRE | 20 |
| THE FOLLOWING ITEMS INCLUDE ESTIMATED QUANTITIES (ADDITIONAL TO OTHER LOCATIONS ALREADY CALLED OUT IN THE PLANS) AT LOCATIONS (SUCH AS UNDER PROPOSED CULVERTS OR ROADWAYS) AS DESIGNATED BY THE ENGINEER (SEE SPECIAL PROVISIONS). | | |
| ROCKFILL - EMBANKMENT | TON | 15,500 |
| ROCKFILL FOUNDATION | TON | 2,500 |
| ROCKFILL - SUBGRADE | TON | 6,000 |
| EARTH EXCAVATION (ROCKFILL) | CU YD | 6,000 |
| GRANULAR CULVERT BACKFILL | CU YD | 3,000 |
| THE FOLLOWING ITEMS INCLUDE ESTIMATED QUANTITIES FOR HANDLING EXISTING AGGREGATE ENTRANCES THAT ARE NOT RECONSTRUCTED THESE INCLUDE THOSE ENTRANCES PREVIOUSLY COMPLETED IN ADJACENT SECTIONS. | | |
| PREPARATION OF BASE | SO YD | 850 |
| AGGREGATE SURFACE COURSE, TYPE B | TON | 2,500 |
| AGGREGATE BASE REPAIR | TON | 100 |
| THE FOLLOWING ITEMS INCLUDE ESTIMATED QUANTITIES TO INSTALL FENCE AT LOCATIONS WHERE PROPERTY OWNERS HAVE NOT RELOCATED/INSTALLED NEW FENCE WHERE EXISTING FENCE IS CONTAINING LIVESTOCK. | | |
| TEMPORARY FENCE | FOOT | 2,000 |

NOTES:

A MASS DIAGRAM FOR THE EARTHWORK IS NOT INCLUDED IN THESE PLANS AND WILL NOT BE AVAILABLE TO THE CONTRACTOR UPON REQUEST. THE EARTHWORK SCHEDULE HAS BEEN INCLUDED IN THESE PLANS TO TAKE THE PLACE OF THE NEED FOR A MASS DIAGRAM. THE SCHEDULE GIVES QUANTITIES IN "COLUMN 10" FOR EXCESS EXCAVATION OR BORROW REQUIRED IN EACH SPECIFIED AREA ALONG THE LIMITS OF THE PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE REQUIRED HAUL DISTANCES AND QUANTITIES FROM THE INFORMATION SHOWN.

ALL TOPSOIL NECESSARY FOR PLACEMENT ON THIS PROJECT SHALL BE TAKEN FROM CUT AREAS WITHIN THE CONSTRUCTION LIMITS, AND ADDITIONAL QUANTITIES FOR FURNISHED EXCAVATION ARE INCLUDED TO REPLACE THE MATERIAL LOSS. TOPSOIL EXCAVATION AND PLACEMENT WILL BE MEASURED FOR PAYMENT.

QUANTITIES FOR THE DEGRADING OF EXISTING CONDITIONS HAVE BEEN INCLUDED IN THE APPROXIMATE STATION RANGE WHERE SUCH DEGRADING TAKES PLACE.

A SHRINKAGE FACTOR OF 20% WAS USED TO DETERMINE THE EXCESS AND BORROW QUANTITIES. SHRINKAGE FACTOR = 1.00/(1.00-0.20) = 1.00/0.80 = 1.25

COLUMN 5 = (COLUMN 3 + COLUMN 4) x 9
 COLUMN 6 = COLUMN 1 + COLUMN 3
 COLUMN 7 = COLUMN 2 - COLUMN 4
 COLUMN 8 = COLUMN 7 x 1.25 (SHRINKAGE FACTOR)
 COLUMN 9 = (COLUMN 3 + COLUMN 4) x 1.0 (SHRINKAGE FACTOR)
 COLUMN 10 = COLUMN 6 - COLUMN 8 - COLUMN 9
 COLUMN 12 = COLUMN 7 - (COLUMN 6 - COLUMN 9) x 0.80

EARTH EXCAVATION = COLUMN 6 - COLUMN 9
 (PAY ITEM QUANTITY) = 615,323 CU YD

FURNISHED EXCAVATION = COLUMN 12
 (PAY ITEM QUANTITY) = 99,846 CU YD

TOPSOIL EXCAVATION AND PLACEMENT = COLUMN 9
 (PAY ITEM QUANTITY) = 49,789 CU YD

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
|-----------|------|--------------------------------------------------------------------------------------------------------------------------------|
| NAME | DATE | |
| | | FAP 315 SCHEDULES OF QUANTITIES DRAWN BY TJD CHECKED BY JRB DATE 1/31/06 |
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