

F.A.P. RTE. 322	SECTION 11-10	COUNTY CHRISTIAN	TOTAL SHEETS 310	SHEET NO. 16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

EARTHWORK SCHEDULE
STAGE 1

ROUTE	STATION TO STATION	1		2		3		4		5		6		7		8		9		10		11		12	
		THEORETICAL		TOPSOIL ADJUSTMENT		4" TOPSOIL PLACEMENT		ADJUSTED EARTHWORK		TOPSOIL EXC. & PLACEMENT		EXCESS (BORROW)		CUMULATIVE EXCESS (BORROW)		FURNISHED EXCAVATION									
		CUT	FILL	4" CUT	4" FILL	SQ YD	CUT	FILL	FILL x 1.25	CUT	FILL	CUT	FILL	CUMULATIVE	CUMULATIVE	CUT	FILL								
FAP 322	768+00 776+00	9,948	2,539	598	175	6,958	10,546	2,364	2,955	773	6,818	6,818	(5,455)												
	776+00 791+00	24,825	281	1,313	8	11,887	26,138	273	342	1,321	24,476	31,294	(19,581)												
	791+00 806+00	12,455	4,516	980	161	10,268	13,435	4,355	5,443	1,141	6,850	38,145	(5,480)												
	806+00 821+00	11,377	4,828	967	172	10,251	12,344	4,656	5,820	1,139	5,385	43,530	(4,308)												
	821+00 836+00	14,170	6,103	944	181	10,124	15,113	5,922	7,402	1,125	6,586	50,116	(5,269)												
	836+00 851+00	9,524	8,981	784	261	9,405	10,308	8,719	10,899	1,045	(1,636)	48,480	1,309												
	851+00 866+00	2,936	10,835	495	328	7,401	3,431	10,507	13,134	822	(10,525)	37,955	8,420												
	866+00 881+00	4,149	6,615	524	220	6,696	4,673	6,395	7,994	744	(4,065)	33,890	3,252												
	881+00 896+00	5,280	8,012	618	251	7,822	5,898	7,760	9,700	869	(4,672)	29,218	3,737												
	896+00 911+00	933	13,791	253	353	5,460	1,186	13,438	16,797	607	(16,218)	13,000	12,975												
	911+00 926+00	930	9,224	284	297	5,222	1,213	8,927	11,159	580	(10,525)	2,475	8,420												
	926+00 941+00	1,845	13,447	377	350	6,539	2,222	13,097	16,372	727	(14,876)	(12,402)	11,901												
	941+00 956+00	7,713	4,048	755	128	7,952	8,468	3,920	4,900	884	2,685	(9,717)	(2,148)												
	956+00 963+93	1,013	7,660	208	196	3,634	1,221	7,464	9,330	404	(8,513)	(18,230)	6,810												
CROSSOVER "B"	972+40 983+49	77	500	0	0	0	77	500	624	0	(548)	(18,778)	438												
TR 185	11+50 14+50	747	24	98	7	946	845	17	21	105	718	(18,060)	(574)												
TR 169/ CH 17	11+50 14+50	1,819	2	163	2	1,484	1,982	0	0	165	1,817	(16,243)	(1,453)												
TR 151A	11+50 15+25	378	702	106	44	1,344	484	658	823	149	(488)	(16,732)	391												
SUBTOTAL STAGE 1		110,118	102,107	9,465	3,134	113,392	119,583	98,973	123,716	12,599	(16,732)		13,385												

STAGE 2

FAP 322	695+00 701+00	1,624	13,408	318	501	7,365	1,942	12,908	16,135	818	(15,011)	(15,011)	12,009
	701+00 716+00	7,938	13,994	1,282	741	18,208	9,220	13,252	16,565	2,023	(9,368)	(24,379)	7,495
	716+00 731+00	5,822	23,045	977	1,059	18,318	6,799	21,986	27,483	2,035	(22,719)	(47,099)	18,176
	731+00 746+00	4,198	39,426	767	1,203	17,732	4,966	38,223	47,779	1,970	(44,783)	(91,882)	35,827
	746+00 761+00	6,052	32,031	953	1,173	19,125	7,005	30,859	38,573	2,125	(33,694)	(125,576)	26,955
	761+00 776+00	5,364	8,814	560	397	8,609	5,924	8,417	10,521	957	(5,554)	(131,129)	4,443
	776+00 791+00	10,808	431	1,132	41	10,564	11,940	390	488	1,174	10,279	(120,851)	(8,223)
	791+00 806+00	2,670	6,954	524	492	9,136	3,193	6,462	8,078	1,015	(5,899)	(126,750)	4,719
	806+00 821+00	2,530	7,245	551	548	9,891	3,081	6,697	8,371	1,099	(6,389)	(133,139)	5,111
	821+00 836+00	4,118	6,143	637	463	9,896	4,755	5,680	7,100	1,100	(3,444)	(136,584)	2,756
	836+00 851+00	4,055	8,177	643	547	10,710	4,698	7,630	9,538	1,190	(6,030)	(142,614)	4,824
	851+00 866+00	875	11,007	255	763	9,159	1,130	10,244	12,805	1,018	(12,693)	(155,307)	10,154
	866+00 881+00	1,909	7,988	483	609	9,821	2,392	7,380	9,224	1,091	(7,924)	(163,231)	6,339
	881+00 896+00	2,146	9,048	545	605	10,355	2,692	8,443	10,553	1,151	(9,012)	(172,243)	7,210
	896+00 911+00	687	15,932	232	766	8,989	919	15,166	18,957	999	(19,037)	(191,280)	15,230
	911+00 926+00	1,757	9,389	380	754	10,205	2,137	8,635	10,794	1,134	(9,791)	(201,071)	7,833
	926+00 941+00	2,127	12,963	415	820	11,115	2,542	12,143	15,178	1,235	(13,871)	(214,943)	11,097
	941+00 956+00	3,257	5,865	625	516	10,265	3,882	5,349	6,687	1,141	(3,946)	(218,888)	3,156
	956+00 971+00	2,459	15,154	480	769	11,242	2,940	14,385	17,981	1,249	(16,290)	(235,179)	13,032
	971+00 983+49	649	0	135	0	1,214	784	0	0	135	649	(234,530)	(519)
TR 193	15+75 18+50	367	610	94	45	1,250	460	565	706	139	(384)	(234,914)	307
	22+00 24+75	638	169	116	20	1,226	754	149	186	136	432	(234,482)	(346)
ACCESS DRIVE 758	10+14 11+00	177	4	0	0	0	177	4	4	0	173	(234,309)	(138)
TR 185	5+25 8+50	228	103	71	14	765	298	89	111	85	102	(234,207)	(82)
TR 169/ CH 17	7+50 8+50	191	0	21	0	187	212	0	0	21	191	(234,016)	(153)
TR 151A	4+00 8+50	230	575	84	58	1,278	314	517	646	142	(475)	(234,491)	380
SERVICE DRIVE 904	64+00 79+88	799	1,672	0	0	0	799	1,672	2,090	0	(1,291)	(235,781)	1,033
SUBTOTAL STAGE 2		73,675	250,146	12,278	12,903	226,626	85,953	237,243	296,554	25,181	(235,781)		188,625
PROJECT TOTALS		183,793	352,253	21,743	16,037	340,018	205,537	336,216	420,270	37,780	(252,513)		202,011

EARTHWORK 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.

THE QUANTITIES SHOWN IN THE SCHEDULE INCLUDE ALL MAINLINE, SIDEROAD, AND ENTRANCE QUANTITIES IN EACH SPECIFIED AREA.

ALL TOPSOIL NECESSARY FOR PLACEMENT ON THIS PROJECT SHALL BE TAKEN FROM AREAS WITHIN THE CONSTRUCTION LIMITS, AND ADDITIONAL QUANTITIES FOR FURNISHED EXCAVATION ARE INCLUDED TO REPLACE THIS 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) = 1.0/0.80 = 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 1.00 (SHRINKAGE FACTOR)
 COLUMN 10 = COLUMN 6 - COLUMN 8 - COLUMN 9
 COLUMN 12 = COLUMN 7 - 0.80 x (COLUMN 6 - COLUMN 9)

EARTHWORK QUANTITIES:

EARTH EXCAVATION = (COLUMN 6 - COLUMN 9) = 167,755 CU YD*

FURNISHED EXCAVATION = COLUMN 12 = 202,010 CU YD

TOPSOIL EXCAVATION AND PLACEMENT = COLUMN 9 = 37,780 CU YD

* - SEE GEOTECHNICAL SCHEDULE FOR ADDITIONAL QUANTITIES

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF QUANTITIES
 EARTHWORK
 FAP 322 (US 51)
 SECTION 11-1
 CHRISTIAN COUNTY

SCALE: NONE
 DATE: 3/17/05
 DRAWN BY: SEB
 CHECKED BY: EBB