

**EARTHWORK SCHEDULE  
STAGE 1**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	11-12	CHRISTIAN	284	17
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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	CU YD	CU YD	CU YD	FILL x 1.25	CU YD	CU YD	CU YD	CU YD
FAP 322	551+00 558+00	1,375	2,500	306	195	4,509	1,681	2,305	2,881	501	(1,701)	(1,701)	1,361
	558+00 573+00	2,527	5,173	490	283	6,957	3,017	4,890	6,113	773	(3,869)	(5,570)	3,095
	573+00 588+00	2,319	7,566	424	395	7,371	2,743	7,171	8,964	819	(7,040)	(12,610)	5,632
	588+00 603+00	1,002	34,142	366	903	11,421	1,368	33,239	41,549	1,269	(41,450)	(54,060)	33,160
	603+00 618+00	2,910	32,033	698	1,146	16,596	3,608	30,887	38,609	1,844	(36,845)	(90,905)	29,476
	618+00 633+00	3,485	6,943	1,073	435	13,572	4,558	6,508	8,135	1,508	(5,085)	(95,990)	4,068
	633+00 648+00	1,492	40,933	469	1,179	14,832	1,961	39,754	49,693	1,648	(49,380)	(145,370)	39,504
	648+00 663+00	5,991	34,588	946	1,172	19,062	6,937	33,416	41,770	2,118	(36,951)	(182,321)	29,561
	663+00 678+00	913	30,990	386	1,437	16,407	1,299	29,553	36,941	1,823	(37,465)	(219,786)	29,972
	678+00 695+00	1,218	36,717	452	1,298	15,750	1,670	35,419	44,274	1,750	(44,354)	(264,140)	35,483
	695+00 734+78	81	0	18	0	162	99	0	0	18	81	(264,059)	(65)
	749+00 760+00	390	48	69	6	675	459	42	53	75	331	(263,728)	(265)
	760+00 783+00	38	464	23	26	441	61	438	548	49	(536)	(264,264)	428
	TR 229A	15+00 19+35	0	0	0	0	0	0	0	0	0	(264,264)	0
	20+65 24+75	673	205	137	17	1,386	810	188	235	154	(263,843)	(337)	
PRIVATE DRIVE 574	45+90 49+80	147	72	54	17	639	201	55	69	71	(263,782)	(49)	
PRIVATE DRIVE 595	16+80 19+35	0	0	0	0	0	0	0	0	0	(263,782)	0	
ASSUMPTION SOUTH CONNECTOR	3+15 495+00	1,360	1,172	329	52	3,429	1,689	1,120	1,400	381	(92)	(263,874)	74
SERVICE DRIVE 614	485+00 4+18	131	203	51	35	774	182	168	210	86	(114)	(263,988)	91
ILLINOIS STREET	44+70 50+17	432	121	30	18	432	462	103	129	48	285	(263,703)	(228)
TR 209	51+47 55+00	1,244	1,108	186	44	2,070	1,430	1,064	1,330	230	(130)	(263,833)	104
CH 6	46+50 49+25	201	392	41	32	657	242	360	450	73	(281)	(264,114)	225
	50+75 54+60	389	841	76	53	1,161	465	788	985	129	(649)	(264,763)	519
TR 193	12+54 16+25	0	0	0	0	0	0	0	0	0	(264,763)	0	
EX US 51	473+74 474+75	0	0	0	0	0	0	0	0	0	0	(264,763)	0
	488+00 491+00	0	0	0	0	0	0	0	0	0	0	(264,763)	0
	606+20 607+50	0	0	0	0	0	0	0	0	0	0	(264,763)	0
	608+00 628+00	0	0	0	0	0	0	0	0	0	0	(264,763)	0
CROSSOVER "B"	10+00 21+14	49	497	0	0	0	49	497	621	0	(572)	(265,335)	458
<b>SUBTOTAL STAGE 1</b>		<b>28,367</b>	<b>236,708</b>	<b>6,624</b>	<b>8,743</b>	<b>138,303</b>	<b>34,991</b>	<b>227,965</b>	<b>284,959</b>	<b>15,367</b>	<b>(265,335)</b>		<b>212,266</b>

**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:**

- 20200100 EARTH EXCAVATION = (COLUMN 6 - COLUMN 9) = 27,345 CU YD \*
- 20200100 FURNISHED EXCAVATION = COLUMN 12 = 249,075 CU YD
- 20200100 TOPSOIL EXCAVATION AND PLACEMENT = COLUMN 9 = 21,420 CU YD
- \* - SEE GEOTECHNICAL SCHEDULE FOR ADDITIONAL QUANTITIES

**EARTH EXCAVATION (WIDENING)**

ITEM	CU YD
HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	40.8
HOT-MIX ASPHALT BASE COURSE WIDENING, 12"	61.0
<b>TOTALS:</b>	<b>102</b>

**SHAPING AND GRADING ROADWAY**

LOCATION / DESCRIPTION	SHAPING & GRADING ROADWAY	UNIT
FAP 322	693+00 to 708+00	SB 13.0
		NB 13.0
	708+00 to 723+00	SB 15.0
		NB 15.0
	723+00 to 734+78	SB 11.8
		NB 11.8
	749+00 to 753+00	SB 4.0
		NB 4.0
	753+00 to 768+00	SB 9.0
		NB 15.0
768+00 to 783+00	NB 7.0	
<b>TOTAL:</b>		<b>119.0</b>

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**STAGE 2**

FAP 322	551+00 558+00	509	157	138	54	1,728	647	103	129	192	326	326	(261)
	558+00 573+00	897	2,969	512	242	6,786	1,409	2,727	3,409	754	(2,754)	(2,428)	2,203
	573+00 588+00	1,311	10,218	360	477	7,533	1,671	9,741	12,176	837	(11,342)	(13,770)	9,074
	588+00 603+00	750	20,047	360	705	9,585	1,110	19,342	24,178	1,065	(24,133)	(37,903)	19,306
	603+00 618+00	0	0	0	0	0	0	0	0	0	0	(37,903)	0
	618+00 633+00	0	0	0	0	0	0	0	0	0	0	(37,903)	0
	633+00 648+00	0	0	0	0	0	0	0	0	0	0	(37,903)	0
	648+00 663+00	0	0	0	0	0	0	0	0	0	0	(37,903)	0
	663+00 678+00	0	0	0	0	0	0	0	0	0	0	(37,903)	0
	678+00 695+00	0	0	0	0	0	0	0	0	0	0	(37,903)	0
	695+00 734+78	0	0	0	0	0	0	0	0	0	0	(37,903)	0
	749+00 760+00	0	0	0	0	0	0	0	0	0	0	(37,903)	0
	760+00 783+00	2,746	10,585	525	550	9,675	3,271	10,035	12,544	1,075	(10,348)	(48,251)	8,278
	TR 229A	15+00 19+35	554	95	119	15	1,206	673	80	100	134	439	(47,812)
	20+65 24+75	0	0	0	0	0	0	0	0	0	0	(47,812)	0
PRIVATE DRIVE 574	45+90 49+80	0	0	0	0	0	0	0	0	0	0	(47,812)	0
PRIVATE DRIVE 595	16+80 19+35	306	659	79	50	1,161	385	609	761	129	(505)	(48,317)	404
ASSUMPTION SOUTH CONNECTOR	3+15 495+00	395	257	122	88	1,890	517	169	211	210	96	(48,221)	(77)
SERVICE DRIVE 614	485+00 4+18	282	171	106	79	1,665	388	92	115	185	88	(48,133)	(70)
ILLINOIS STREET	44+70 50+17	0	0	0	0	0	0	0	0	0	0	(48,133)	0
TR 209	51+47 55+00	0	0	0	0	0	0	0	0	0	0	(48,133)	0
CH 6	46+50 49+25	0	0	0	0	0	0	0	0	0	0	(48,133)	0
	50+75 54+60	0	0	0	0	0	0	0	0	0	0	(48,133)	0
TR 193	12+54 16+25	1,065	67	117	20	1,233	1,182	47	59	137	986	(47,147)	(789)
EX US 51	473+74 474+75	102	16	20	5	225	122	11	14	25	83	(47,064)	(67)
	488+00 491+00	67	67	74	74	1,332	141	(7)	(9)	148	2	(47,062)	(1)
	606+20 607+50	661	47	33	10	387	694	37	46	43	605	(46,457)	(484)
	608+00 628+00	444	444	494	494	8,892	938	(50)	(63)	988	13	(46,444)	(10)
CROSSOVER "B"	10+00 21+14	494	49	130	0	1,170	624	49	61	130	433	(46,011)	(346)
<b>SUBTOTAL STAGE 2</b>		<b>10,583</b>	<b>45,848</b>	<b>3,189</b>	<b>2,863</b>	<b>54,468</b>	<b>13,772</b>	<b>42,985</b>	<b>53,731</b>	<b>6,052</b>	<b>(46,011)</b>		<b>36,809</b>
<b>PROJECT TOTALS</b>		<b>38,950</b>	<b>282,556</b>	<b>9,813</b>	<b>11,606</b>	<b>192,771</b>	<b>48,763</b>	<b>270,950</b>	<b>338,690</b>	<b>21,419</b>	<b>(311,346)</b>		<b>249,075</b>

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SCHEDULE OF QUANTITIES  
 EARTHWORK  
 FAP 322 (US 51)  
 SECTION 11-12  
 CHRISTIAN COUNTY**

SCALE: NONE  
 DATE: 8/22/06

DRAWN BY: SEB  
 CHECKED BY: TLD