

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTH EXCAVATION SCHEDULE

LOCATION 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	4" CUT	4" FILL	CUT	FILL	FILL X 1.25	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL
CU YD												SO YD		CU YD											
STAGE I																									
FAP 310 (US 67)																									
800+00	815+00	3221	5578	418	328	6714	3639	5578	6973	746	(4080)	(4080)	3264												
815+00	830+00	4250	24455	1291	947	20142	5541	24455	30569	2238	(27266)	(31346)	21813												
TEMPORARY ACCESS ROAD																									
0+00	30+15	2553	1628	0	0	0	2553	1628	2035	0	518	518	(414)												
US 67 FRONTAGE ROAD (CONCORD)																									
9+50	51+53	19148	30642	2762	1418	37620	21910	30642	38303	4180	(20573)	(20573)	16458												
NEW STREET																									
300+12	313+35	3990	607	425	23	4032	4415	607	759	448	3208	3208	(2567)												
RELOCATED CYLINDER HEAD ROAD																									
93+83	106+25	5513	968	733	200	8397	6246	968	1210	933	4103	4103	(3282)												
OLD CYLINDER HEAD ROAD																									
0+00	3+00	1046	197	175	68	2187	1221	197	246	243	732	732	(585)												
GILLILAND ROAD CONNECTOR																									
10+00	11+30	238	0	20	0	180	258	0	0	20	238	238	(190)												
SWALE 25																									
0+00	2+50	225	0	0	0	0	225	0	0	0	225	225	(180)												
SWALE 9655																									
0+00	3+65	211	22	0	0	0	211	22	28	0	183	183	(147)												
SUBTOTAL STAGE I																									
		40395	64097	5824	2984	79272	46219	64097	80123	8808	(42712)		34170												
STAGE II																									
FAP 310 (US 67)																									
770+00	785+00	131	39	6	39	405	137	39	49	45	43	43	(35)												
785+00	800+00	5570	8255	763	720	13347	6333	8255	10319	1483	(5469)	(5426)	4375												
800+00	830+00	13380	24575	2849	1812	41949	16229	24575	30719	4661	(19151)	(24577)	15321												
830+00	845+00	5865	27547	1209	1538	24723	7074	27547	34434	2747	(30107)	(54684)	24085												
845+00	860+00	11962	22243	1838	1292	28170	13800	22243	27804	3130	(17134)	(71818)	13707												
860+00	875+00	38357	31231	2374	1121	31455	40731	31231	39039	3495	(1803)	(73621)	1442												
875+00	890+00	55949	11666	2697	777	31266	58646	11666	14583	3474	40589	(33032)	(32472)												
890+00	905+00	51048	4200	3625	493	37062	54673	4200	5250	4118	45305	12273	(36244)												
905+00	920+00	30999	1906	3250	343	32337	34249	1906	2383	3593	28273	40546	(22619)												
920+00	935+00	23286	22792	2132	1149	29529	25418	22792	28490	3281	(6353)	34193	5082												
935+00	950+00	6818	22480	1050	1197	20223	7868	22480	28100	2247	(22479)	11714	17983												
950+00	965+00	4872	21817	603	715	11862	5475	21817	27271	1318	(23114)	(11400)	18491												
965+00	980+00	653	10006	122	327	4041	775	10006	12508	449	(12182)	(23582)	9745												
1070+00	1085+00	1996	1784	179	94	2457	2175	1784	2230	273	(328)	(23910)	262												
1100+00	1115+00	4371	123	295	15	2790	4666	123	154	310	4202	(19708)	(3362)												
1115+00	1130+00	5569	9187	672	618	11610	6241	9187	11484	1290	(6533)	(26241)	5226												
1130+00	1145+00	2978	11428	512	379	8019	3490	11428	14285	891	(11686)	(37927)	9349												
TRANSITION A																									
970+26	980+28	5242	3028	238	23	2349	5480	3028	3785	261	1434	1434	(1147)												
TRANSITION B																									
1104+56	1110+82	21	1169	0	0	0	21	1169	1461	0	(1440)	(1440)	1152												
CONCORD ROAD																									
8+03	19+40	3601	95287	596	1507	18927	4197	95287	119109	2103	(117015)	(117015)	93612												
20+60	35+00	3862	92515	586	1713	20691	4448	92515	115644	2299	(113495)	(230510)	90796												
RAMP A																									
1+00	12+70	1045	29069	316	812	10152	1361	29069	36336	1128	(36103)	(36103)	28883												
RAMP B																									
10+51	18+00	1991	15219	353	491	7596	2344	15219	19024	844	(17524)	(17524)	14019												
RAMP C																									
2+00	9+42	1035	15767	219	519	6642	1254	15767	19709	738	(19193)	(19193)	15354												
RAMP D																									
8+98	19+00	1102	19306	382	628	9090	1484	19306	24133	1010	(23659)	(23659)	18927												
COOPER STREET																									
442+65	448+56	1052	171	184	82	2394	1236	171	214	266	756	756	(605)												
RELOCATED CREWS LANE																									
52+00	57+03	2363	240	385	51	3924	2748	240	300	436	2012	2012	(1610)												
ASH STREET																									
2+50	4+00	26	0	0	0	0	26	0	0	0	26	26	(21)												
BETHEL LANE																									
72+70	74+65	179	0	10	0	90	189	0	0	10	179	179	(143)												
81+25	92+00	2185	2056	514	141	5895	2699	2056	2570	655	(526)	(347)	421												
SERVICE DRIVE 91																									
591+50	593+85	453	59	111	11	1098	564	59	74	122	368	368	(295)												
US 67 FRONTAGE ROAD (BETHEL)																									
510+50	523+00	1993	1228	371	83	4086	2364	1228	1535	454	375	375	(300)												
RELOCATED CYLINDER HEAD ROAD																									
106+25	109+25	661	26	104	4	972	765	26	33	108	624	624	(500)												
DUTCH LANE WEST																									
194+41	198+70	1337	2537	109	109	1962	1446	2537	3171	218	(1943)	(1943)	1555												
SWALE 851																									
0+00	1+72	168	0	0	0	0	168	0	0	0	168	168	(134)												
SWALE 922																									
0+00	4+52	832	0	0	0	0	832	0	0	0	832	832	(666)												
SUBTOTAL STAGE II																									
		292952	508956	28654	18803	427113	321606	508956	636200	47457	(362051)		289634												

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 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) = 546,203 CU YD •
- 20400800 FURNISHED EXCAVATION = COLUMN 12 = 514,850 CU YD
- 21101615 TOPSOIL FURNISH AND PLACE, 4" = COLUMN 5 = 877,14