

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24	*	JOHNSON	150	16
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*(44-5, 6)RS, BSMART FY04-3 98836				

EARTHWORK

LOCATION STATION TO STATION	WORK OFFSET FROM E. P. FOOT	EARTH EXCAVATION CU YD	FOR INFORMATION ONLY						REMARKS	
			AVERAGE SHRINKAGE FACTOR %	EARTH EXCAVATION (ADJUSTED) CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE		BORROW SWELL FACTOR %		BORROW EXCAVATION CU YD
						WASTE (+)	SHORTAGE (-)			
FAI 24:										
JOHNSON COUNTY:										
EB LANES:										
RT 397 + 80	MP(14.8)	100	9	N/A	9	9	N/A			
RT 407 + 85	MP(15.0)	105	5	N/A	5	5	N/A			
RT 445 + 00	MP(15.7)	40	5	N/A	5	5	N/A			
RT 460 + 82	MP(16.0)	120	3	N/A	3	3	N/A			
RT 495 + 52	MP(16.7)	100	28	N/A	28	28	N/A	USE AS DITCH FILL MATERIAL AT LT STA 16+90 (TL RAMP D) AROUND PAVED DITCH AND INLET		
RT 162 + 25	MP(18.3)	75	16	N/A	16	16	N/A	PLACE EXCESS ON FORESLOPE WITHIN TREE REMOVAL LIMITS		
RT 258 + 67	MP(20.1)	50	1	N/A	1	1	N/A	PLACE EXCESS AROUND PAVED DITCHES WITHIN GENERAL CLEARING LIMITS		
RT 258 + 78	MP(20.1)	50	1	N/A	1	1	N/A	PLACE EXCESS AROUND HEADWALL		
RT 267 + 50	MP(20.3)	110	20	N/A	20	20	N/A	PLACE EXCESS AROUND HEADWALL		
RT 274 + 45.5	MP(20.4)	100	15	N/A	15	15	N/A	PLACE EXCESS AROUND HEADWALL LT. STA. 639 + 54 CL W.B. LANES		
RT 278 + 05	MP(20.5)	60	3	N/A	3	3	N/A	MATERIAL TO BE PLACED BEHIND SOUTH WINGWALL AT THIS LOCATION		
RT 282 + 35	MP(20.6)	70	15	N/A	15	15	N/A	MATERIAL TO BE PLACED BEHIND SOUTH WINGWALL AT THIS LOCATION		
RT 282 + 45	MP(20.6)	70	2	N/A	2	2	N/A	PLACE EXCESS AROUND STONE RIPRAP DITCH FOR RESHAPING		
RT 290 + 20	MP(20.7)	50	22	N/A	22	22	N/A	PLACE EXCESS IN GENERAL CLEARING AROUND PAVED DITCHES		
RT 325 + 71	MP(21.4)	40	8	N/A	8	8	N/A	PLACE EXCESS IN EROSION AREA LT STA 219 + 27 CL E.B. LANES		
RT 334 + 52	MP(21.6)	45	12	N/A	12	12	N/A			
RT 346 + 30	MP(21.8)	45	7	N/A	7	7	N/A	PLACE EXCESS IN EROSION AREA BEHIND HEADWALL		
RT 358 + 82	MP(22.0)	45	7	N/A	7	7	N/A			
RT 365 + 75	MP(22.1)	50	9	N/A	9	9	N/A	PLACE EXCESS IN MEDIAN AROUND INLET AT STA 366+45, MILE POST 22.1		
RT 367 + 00	MP(22.2)	50	9	N/A	9	9	N/A	PLACE EXCESS IN MEDIAN AROUND INLET AT STA 366 + 45 MILE POST 22.2		
RT 369 + 84	MP(22.2)	50	9	N/A	9	9	N/A	PLACE EXCESS IN MEDIAN AROUND INLET AT STA 369 + 58 MILE POST 22.2		
RT 386 + 76	MP(22.6)	60	11	N/A	11	11	N/A			
RT 444 + 65	MP(23.7)	100	88	N/A	88	88	N/A	MATERIAL TO BE PLACED BEHIND SOUTH WINGWALL AT THIS LOCATION		
MEDIAN:										
483 + 83	MP(16.5)			N/A		9	-9	25%	11	
485 + 94	MP(16.5)	859		N/A	859		859	N/A		
485 + 94	MP(16.5)	859		N/A	859		859	N/A	NORTH CELL OF TRIPLE BOX CULVERT	
487 + 08	MP(16.5)			N/A		2	-2	25%	2	
496 + 95	MP(16.7)			N/A		9	-9	25	11	
119 + 98	MP(17.5)			N/A		2	-2	25%	2	
WB LANES:										
RT 639 + 45	MP(20.5)	70		N/A		44	-44	25%	55	
RT 643 + 00	MP(20.5)	70	17	N/A	17		17	N/A	ESTIMATED 4' AVERAGE DEPTH ALONG WINGWALL REMOVE RIPRAP AND REPLACE WITH EARTH	
RT 653 + 00	MP(20.7)	85	33	N/A	33		33	N/A	PLACE EXCESS IN EROSION AREA RT STA 369 + 45 CL WBL	
RT 676 + 62	MP(21.2)	40	4	N/A	4		4	N/A	PLACE EXCESS BEHIND BOTH WINGWALLS AT THIS LOCATION	
RT 684 + 53	MP(21.3)	45	6	N/A	6		6	N/A	PLACE EXCESS BEHIND HEADWALL AT THIS LOCATION	
RT 693 + 83	MP(21.5)	50	4	N/A	4		4	N/A	PLACE EXCESS BEHIND NORTH WINGWALL AT THIS LOCATION	
RT 707 + 15	MP(21.8)	40	8	N/A	8		8	N/A	PLACE EXCESS BEHIND SOUTH WINGWALL AT THIS LOCATION	
LT 381 + 50	MP(14.5)	45	2	N/A	2		2	N/A		
LT 394 + 32	MP(14.7)	93	2	N/A	2		2	N/A	PLACE EXCESS AROUND STONE RIPRAP DITCH	
LT 407 + 80	MP(15.0)	85	10	N/A	10		10	N/A	PLACE EXCESS AROUND STONE RIPRAP DITCH	
LT 427 + 00	MP(15.4)	35	2	N/A	2		2	N/A		
LT 461 + 12	MP(16.0)	60	8	N/A	8		8	N/A	PLACE EXCESS AROUND STONE RIPRAP DITCH	
LT 467 + 28	MP(16.1)	70	3	N/A	3		3	N/A	PLACE EXCESS IN EROSION ON FORESLOPE	
LT 80 + 37	MP(16.7)	105	6	N/A	6		6	N/A	PLACE EXCESS AROUND STONE RIPRAP DITCH	
LT 111 + 05	MP(17.3)	95	2	N/A	2		2	N/A	PLACE EXCESS IN EROSION ON FORESLOPE	
LT 111 + 15	MP(17.3)	95	4	N/A	4		4	N/A	PLACE EXCESS IN EROSION ON FORESLOPE	
LT 212 + 98	MP(19.3)	55	7	N/A	7		7	N/A	PLACE EXCESS BEHIND BOTH WINGWALLS AT THIS LOCATION	
LT 706 + 91	MP(21.8)	50	11	N/A	11		11	N/A		
VIENNA/HARRISBURG (US 45) INTERCHANGE:										
RT 14 + 40	RAMP D	50	14	N/A	14			N/A	PLACE EXCESS BEHIND WEST WINGWALL AT THIS LOCATION	
PROJECT TOTALS:			2,166							

NOTE: THE EXCESS MATERIAL FROM THE FLOWLINE CLEANING OF CULVERTS IS TO BE USED WITHIN THE JOB SITE AT THE GRADING AND SHAPING OF FORESLOPE LOCATIONS AS NOTED IN THE PLANS BETWEEN MILEPOST 13.4 AND 23.58. AFTER THE GRADING AND SHAPING IS COMPLETED WITHIN THESE LIMITS, THEN ANY EXCESS SHALL BE USED LT STA. 522+50 TO LT STA 523+85 (MP 9.2) CL OF THE W.B. LANES FOR EROSION REPAIR AS DIRECTED BY THE ENGINEER.

THE AVERAGE SHRINKAGE AND SWELL FACTORS DO NOT APPLY TO THIS CONTRACT DUE TO THE MAJORITY IS FOR CLEANING CULVERTS, DITCHES, AND IS PLACED ON SLOPES FOR EROSION REPAIR.