

SUMMARY OF QUANTITIES

ITEM NO.	CODE NUMBER	ITEM	CONST. TYPE CODE		
			UNIT	TOTAL	
*	20100500	TREE REMOVAL, ACRES	ACRE	1.83	
2	20200100	EARTH EXCAVATION	CU. YD.	2,682	
3	20300100	CHANNEL EXCAVATION	CU. YD.	6,113	
4	25000300	SEEDING, CLASS 3	ACRE	2.79	
5	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	251	
6	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	251	
7	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	251	
8	25100115	MULCH, METHOD 2	ACRE	2.79	
*	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300	
10	28000300	TEMPORARY DITCH CHECKS	EACH	6	
11	28000400	PERIMETER EROSION BARRIER	FOOT	3,075	
12	28100109	STONE RIPRAP, CLASS A5	SQ. YD.	1,118	
13	28200200	FILTER FABRIC	SQ. YD.	1,118	
*	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	1,122	
*	50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	
*	50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	
17	50200100	STRUCTURE EXCAVATION	CU. YD.	64.9	
18	50300225	CONCRETE STRUCTURES	CU. YD.	54.1	
19	50400605	PRECAST, PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ. FT.	3,572	
20	50800105	REINFORCEMENT BARS	POUND	30,560	
21	50900205	STEEL RAILING, TYPE S1	FOOT	298	
22	51201600	FURNISHING STEEL PILES HP 12 x 53	FOOT	435	
23	51202700	DRIVING STEEL PILES	FOOT	435	
24	51203600	TEST PILE STEEL HP 12 x 53	EACH	3	
25	51204315	CONCRETE ENCASMENT	CU. YD.	9.6	
26	51500100	NAME PLATES	EACH	2	
27	54003000	CONCRETE BOX CULVERTS	CU. YD.	115.5	
28	67100100	MOBILIZATION	LSUM	1	
29	70101700	TRAFFIC CONTROL AND PROTECTION	LSUM	1	
*	30	X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1

* SEE SPECIAL PROVISIONS

GENERAL NOTES

- THE EXISTING ROAD SHALL REMAIN CLOSED TO THRU TRAFFIC DURING CONSTRUCTION (SEE SPECIAL PROVISIONS).
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WASTE AREAS AND/OR DISPOSAL SITE(S) OUTSIDE THE RIGHT-OF-WAY AND EASEMENTS, FOR EXCESS OR UNSUITABLE MATERIAL, WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT.
- EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS, WELLS OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT-OF-WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLES 501.02 AND 501.03 OF THE STANDARD SPECIFICATIONS, WITHOUT ADDITIONAL COMPENSATION, UNLESS OTHERWISE NOTED IN THE PLANS, SPECIAL PROVISIONS, OR APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ITEMS NOT SPECIFIED FOR REMOVAL, RECONSTRUCTION, OR DEMOLITION. AREAS OUTSIDE THE PROJECT SCOPE OR CONSTRUCTION LIMITS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR, PER THE APPROVAL OF THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.
- EXCAVATION OF EXISTING GRAVEL OR SEAL COAT AGGREGATE SURFACES SHALL BE CONSIDERED EARTH EXCAVATION, AND WILL NOT BE PAID FOR SEPARATELY.
- THE FINAL TOP SIX INCHES OF SOIL IN ANY RIGHT-OF-WAY OR EASEMENT AREA DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
- NO OVERHAUL HAS BEEN COMPUTED AND NONE SHALL BE PAID FOR FROM ANY SOURCE.
- SEE THE SPECIAL PROVISIONS REGARDING THE NATIONWIDE 404 PERMIT REQUIREMENTS FOR IN-STREAM ACCESS FILL, COFFERDAMS, CAUSEWAYS, OR CROSSINGS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PROPER PERMITS FOR THESE ACTIVITIES.

APPLICATION RATES

SEEDING, CLASS 3	170 #/ACRE
NITROGEN FERTILIZER	90 #/ACRE
PHOSPHORUS FERTILIZER	90 #/ACRE
POTASSIUM FERTILIZER	90 #/ACRE
MULCH, METHOD 2	2.0 TONS/ACRE

SAFETY NOTE:

"MISSMAN, STANLEY & ASSOCIATES (MSA) HAS ADOPTED SAFETY PROCEDURES FOR ITS EMPLOYEES WHO PROVIDE PROFESSIONAL ENGINEERING AND SURVEYING SERVICES. A COPY OF THESE PROCEDURES IS AVAILABLE FROM THE SAFETY OFFICER. MSA PERSONNEL ARE NOT TRAINED IN CONTRACTOR (CONSTRUCTION) SAFETY AND COMPLIANCE PROCEDURES. THE METHODS & MEANS TO COMPLY WITH CONSTRUCTION SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR."

EARTHWORK SUMMARY

	CUT	FILL
TOTAL ROADWAY EXCAVATION	2682	
TOTAL CHANNEL EXCAVATION	6113	
TOTAL CUT	8795	
TOTAL ROADWAY EMBANKMENT		3973
TOTAL OVERFLOW CHANNEL FILL		141
TOTAL FILL		4114
DEDUCT SUITABLE EXCAVATION (25% SHRINKAGE)	6596	
TOTAL FURNISHED EXCAVATION REQUIRED		0

SCHEDULE OF QUANTITIES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	*	MERCER	23	3
		ILLINOIS	BR-OS-131(44)	

* 97-06118-00-BR 89250

ROADWAY EXCAVATION & EMBANKMENT
(SEE ROADWAY CROSS SECTIONS)

STATION	AREAS		VOLUMES		CUMULATIVE VOLUMES	
	CUT	FILL	CUT	FILL	CUT	FILL
3+25	10.19	0.23	11.33	0.49	11.33	0.49
3+50	14.28	0.82	22.56	4.18	33.88	4.66
4+00	10.08	3.69	18.31	14.05	52.20	18.71
4+50	9.70	11.48	14.07	43.47	66.27	62.18
5+00	5.50	35.47	17.92	115.06	84.19	177.24
5+50	13.85	88.79	38.61	222.85	122.80	400.09
6+00	27.85	151.89	73.13	315.39	195.93	715.48
6+50	51.13	188.73	140.77	318.62	336.70	1034.10
7+00	100.90	155.38	4.72	4.19	341.42	1038.28
7+01.25	103.20	25.42	0.00	0.00	341.42	1038.28
7+50	0.00	0.00	0.00	0.00	341.42	1038.28
7+74	0.00	0.00	0.00	0.00	341.42	1038.28
8+00	0.00	0.00	0.00	0.00	341.42	1038.28
8+46.75	108.09	193.45	4.93	11.79	346.35	1050.07
8+48	104.77	315.74	7.73	22.90	354.08	1072.97
8+50	104.04	302.69	185.54	574.44	539.62	1647.41
9+00	96.34	317.70	107.89	359.61	647.52	2007.02
9+31.21	90.34	304.50	47.50	193.84	695.02	2200.86
9+50	46.18	252.58	47.40	202.34	742.42	2403.20
9+76.22	51.44	164.14	60.70	270.88	803.12	2674.08
10+10	45.60	268.88	100.08	260.59	903.21	2934.66
10+50	89.51	82.91	240.48	133.67	1143.69	3068.33
11+00	170.21	61.45	259.65	154.12	1685.71	3352.16
11+50	134.75	78.64	242.72	154.02	1928.43	3506.18
12+00	145.67	87.81	208.26	139.58	2136.69	3645.77
12+50	116.47	78.53	206.12	128.56	2342.81	3774.32
13+00	108.45	72.22	172.80	102.98	2515.60	3877.30
13+50	114.16	66.62	97.45	53.89	2613.06	3931.19
14+00	72.46	44.60	40.54	20.26	2653.59	3951.45
14+50	32.79	13.60	21.21	16.71	2674.81	3968.16
15+00	10.99	8.28	6.74	5.03	2681.55	3973.20
15+50	11.92	9.77	0.00	0.00	2681.55	3973.20
15+75	2.64	1.10				

TREE REMOVAL:
(SEE GENERAL SITE PLAN)

AREA 1 =	0.10
AREA 2 =	0.14
AREA 3 =	0.06
AREA 4 =	0.03
AREA 5 =	0.39
AREA 6 =	0.30
AREA 7 =	0.51
AREA 8 =	0.26
AREA 9 =	0.04
TOTAL	1.83

SEEDING, CLASS 3
(SEE EROSION CONTROL PLAN)

AREA 1 =	0.33
AREA 2 =	0.21
AREA 3 =	0.25
AREA 4 =	0.61
AREA 5 =	0.62
AREA 6 =	0.08
AREA 7 =	0.53
AREA 8 =	0.16
TOTAL	2.79

TEMPORARY DITCH CHECK
SEE EROSION CONTROL PLAN

TOTAL	6
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STONE DUMPED RIPRAP/FILTER FABRIC

MAIN CHANNEL & BRIDGE	988
BOX CULVERT - INLET & OUTLET	130
TOTAL	1,118

CHANNEL EXCAVATION (EDWARDS RIVER)
(SEE CHANNEL CROSS SECTIONS)

STATION	AREAS		VOLUMES		CUMULATIVE VOLUMES	
	CUT	FILL	CUT	FILL	CUT	FILL
1+00	0	0	69	0	69	0
1+50	74	0	272	0	341	0
2+00	220	0	515	0	856	0
2+50	336	0	191	0	1047	0
2+63	456	0	616	0	1663	0
CENTERLINE	443	0	614	0	2277	0
3+37	453	0	215	0	2492	0
3+50	441	0	829	0	3321	0
4+08	358	0	635	0	3956	0
4+50	421	0	669	0	4625	0
5+00	302	0	456	0	5081	0
5+50	191	0	269	0	5350	0
6+00	100	0	118	0	5468	0
6+50	27	0	25	0	5493	0
7+00	0	0	0	0	5493	0

AGGREGATE SURFACE COURSE, TYPE B

STA. 3+25 TO 4+25	102
STA. 4+25 TO 7+00	280
STA. 8+48 TO 14+75	638
STA. 14+75 TO 15+75	102
TOTAL	1,122

REINFORCEMENT BARS

ABUTMENTS	2,480
WALL PIER	2,350
BOX CULVERT	25,730
TOTAL	30,560

CONCRETE STRUCTURES

WEST ABUTMENT	9.3
WALL PIER	35.5
EAST ABUTMENT	9.3
TOTAL	54.1

CHANNEL EXCAVATION (OVERFLOW CHANNEL)
(SEE OVERFLOW CHANNEL CROSS SECTIONS)

STATION	AREAS		VOLUMES		CUMULATIVE VOLUMES	
	CUT	FILL	CUT	FILL	CUT	FILL
1+00	23	0	27	8	27	8
1+25	35	18	35	20	62	28
1+50	41	25	38	26	100	54
1+75	41	31	37	26	137	80
2+00	38	26	26	12	163	92
2+25	19	0	15	3	178	95
2+50	14	6	9	4	187	99
2+66.18	15	8	0	0	187	99
CULVERT	0	0	0	0	187	99
3+25	35	0	36	0	223	99
3+50	43	0	75	0	298	99
3+75	118	0	118	0	416	99
4+00	137	0	115	21	531	120
4+25	112	45	89	21	620	141
4+50	81	0	0	0	620	141

GENERAL NOTES, SUMMARY AND SCHEDULE OF QUANTITIES

SECTION 97-06118-00-BR
T.R. 132, STA. 7+74.00
MERCER COUNTY