SUMMARY OF QUANTITIES

1	81		7 A	1	
	01	-	/ n		

					X081-2A
	NO.	CODE NUMBER	ITEM	UNIT	TOTAL
-	1	20200100	EARTH EXCAVATION	CU. YD.	169.2
*	2	20201300	SHOULDER SHAPING	FOOT	396
`	3	20300100	CHANNEL EXCAVATION	CU. YD.	132.7
t	4	25000300	SEEDING, CLASS 3	ACRE	0.38
f	5	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	34.2
ı	6	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	34.2
Ì	7	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	34.2
Ī	8	25100115	MULCH METHOD 2	ACRE	0.38
ı	9	20700110	POROUS GRANULAR EMBANKMENT	TON	133.6
ľ	10	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200
	11	28000400	PERIMETER EROSION BARRIER	FOOT	484
	12	28100109	STONE RIPRAP, CLASS A5	SQ. YD.	693
ı	13	28200200	FILTER FABRIC	SQ. YD.	693
f	14	35101400	AGGREGATE BASE COURSE, TYPE B	TON	261
ı	15	40603080	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50	TON	66.0
Ī	16	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	110.7
*	17	48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ. YD	88.2
	18	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	19	50200100	STRUCTURE EXCAVATION	CU. YD.	103.4
Ī	20	50300225	CONCRETE STRUCTURES	CU. YD.	151.5
Ī	21	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ. FT.	3,594
Ī	22	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	10,560
*	23	50901115	STEEL RAILING (SPECIAL)	FOOT	240
	24	51200959	FURNISHING METAL SHELL PILES, 14"x0.312"	FOOT	980
[25	51202305	DRIVING PILES	FOOT	980
ſ	26	51203200	TEST PILE METAL SHELLS	EACH	4
[27	50300280	CONCRETE ENCASEMENT	CU. YD.	13.1
	28	51500100	NAME PLATES	EACH	11
	29	58100200	WATERPROOFING MEMBRANE SYSTEM	SQ. YD.	399.3
	30	58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	1071
Δ	31	63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
Δ*	32	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
	33	63200310	GUARDRAIL REMOVAL	FOOT	294
ſ	34	66500105	WOVEN WIRE FENCE, 4'	FOOT	210
*	35	66502300	WOVEN WIRE FENCE REMOVAL	FOOT	236
ľ	36	67100100	MOBILIZATION	LSUM	1
*	37	70101700	TRAFFIC CONTROL AND PROTECTION	LSUM	1
*	38	X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1
*	39	X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION — LOCATION 2	EACH	1
*[40	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	40

* SEE THE SPECIAL PROVISIONS

A SPECIALTY ITEMS

GENERAL NOTES:

- 1. THE EXISTING ROAD SHALL REMAIN CLOSED TO THRU TRAFFIC DURING CONSTRUCTION.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. EXCAVATION OF EXISTING GRAVEL OR SEAL COAT AGGREGATE SURFACES SHALL BE CONSIDERED EARTH EXCAVATION, AND WILL NOT BE PAID FOR SEPARATELY.
- 6. 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.
- 7. NO OVERHAUL HAS BEEN COMPUTED AND NONE SHALL BE PAID FOR FROM ANY SOURCE.
- 8. PER ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS, A PERMIT SHALL BE OBTAINED FROM IEPA AND MADE AVAILABLE TO THE ENGINEER PRIOR TO OPEN BURNING OF ORGANIC WASTE (I.E. PLANT REFUSE RESULTING FROM PRUNING OR REMOVAL OF TREES OR SHRUBS) OR OTHER CONSTRUCTION OR
- 9. 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.
- 10. PLACE RIPRAP IN A TIMELY MANNER TO PREVENT EROSION, ETC.
- 11. EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.

SCHEDULE OF QUANTITIES

ROADWAY EXCAVATION & EMBANKMENT (SEE ROADWAY CROSS SECTIONS)

(SEE ROADWAT CROSS SECTIONS)						
	AR.	EAS	VOLUMES		CUMULATIVE VOLUMES	
STATION	Square Feet		Cubic	Yards	Cubic Yards	
STATION	CUT	FILL	CUT	FILL	CUT	FILL
68+80	27.0	0.3	10.0	0.7	10.0	0.7
69+00	23.1	0.5	18.6	0.3	18.6	0.3
69+50	15.8	7.1	36.0	7.0	54.6	7.3
			12.3	26.4	66.9	33.7
69+71	15.8	60.7	2.4	23.7	69.3	57.4
69+79.25	0	94.4	0	0	69.3	57.4
BRIDGE	0	0				
71+00.75	22.8	70.3	0	0	69.3	57.4
			6.9	15.4	76.1	72.8
71+08	28.2	44.6	43.9	35.4	120.0	108.2
71+50	28.2	0.9	49.2	1.5	169.2	109.7
72+00	24.9	0.7				
		·	0	0	169.2	109.7

DOWNSTREAM		AR	EAS	VOL	UMES	CUMULATIV	E VOLUMES
<u></u>	STATION	Squar	e Feet	Cubic	Yards	Cubic	Yards
1	STATION	CUT	FILL	CUT	FILL	CUT	FILL
1	38'	0	0	13.0	0	13.0	0
	30'	58.4	0		0		0
	15'	61.9	0	33.4	 	46.4	
	CENTERLINE	40.8	0	28.5	0	74.9	0
1	15'	40.2	0	22.5	0	97.4	0
	30'	56.6	0	26.9	0	124.3	0
1	42'	0	0	8.4	0	132.7	0
+	42			0	0	132.7	0

EARTHWORK SUMMARY

	CUT	FILL
TOTAL ROADWAY EXCAVATION	169.2	109.7
TOTAL CHANNEL EXCAVATION	132.7	0
TOTAL CUT	301.9	
TOTAL FILL		109.7
DEDUCT SUITABLE EARTH EXCAVATION (25% SHRINKAGE)	226.4	
TOTAL FURNISHED EXCAVATION REQUIRED		-116.7

APPLICATION RATES:

SEEDING, CLASS 3	SEE ARTICLE 250.07 OF STD. SPECS.
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
MULCH, METHOD 2	2 TONS/ACRE

ROUTE NO.	TE NO. SECTION		COUNTY		SHEET NO.
F.A.S. 214	*	MERC	ER	16	- 2
FED. ROAD D	IST. NO. 7	ILLINOIS	8	39387	

*05-00023-02-BR

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CONCRETE_STRUCTURES	CU. YD.
SOUTH ABUTMENT	11.1
WALL PIER (BENT #3)	64.6
WALL PIER (BENT #4) NORTH ABUTMENT	64.6
NORTH ABOUMENT	11.1
	151.5
STONE RIPRAP, CLASS A5	SQ.YD.
SOUTH ABUTMENT	346
NORTH ABUTMENT	346
	693
AGGREGATE BASE COURSE, TYPE B	TON
STA. 68+80 TO STA. 69+79.25	130.5
STA. 71+00.75 TO STA. 72+00	130.5
	261
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON
STA. 68+80 TO STA. 69+79.25	21.8
BRIDGE	67.1
STA. 71+00.75 TO STA. 72+00	21.8
	110.7
HOT-MIX ASPHALT BINDER, IL-19.0, N50	<u>TON</u>
STA. 68+80 TO STA. 69+79.25	33.0
STA. 71+00.75 TO STA. 72+00	33.0
	66.0
WOVEN WIRE FENCE REMOVAL	F00
STA. 68+80 TO STA. 69+98, L.T	119.3
STA. 70+86 TO STA. 72+00, L.T	116.2
	235.6
WOVEN WIRE FENCE, 4'	F00 ⁻
STA. 68+80 TO STA. 69+90, L.T	110
STA. 71+00 TO STA. 72+00, L.T	100
	210
CEEDING CLASS 7	
SEEDING, CLASS 3	<u>ACRE</u>
STA. 68+80 TO STA. 69+79.25, L.T & R.T	0.19
STA. 71+00.75 TO 72+00, L.T & R.T	0.19
	0.38

SAFETY NOTE:

"MISSMAN, STANLEY & ASSOCIATES (MISSMAN) 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."

GENERAL NOTES, SUMMARY & SCHEDULE OF QUANTITIES

SECTION 05-00023-02-BR F.A.S. 214, STA. 70+40 MERCER COUNTY STRUCTURE NO. 066-3043