

**SUMMARY OF QUANTITIES**

CODE NO	ITEM	CONSTRUCTION CODE X020-2A	
		UNIT	QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	0.21
20200100	EARTH EXCAVATION	CU YD	1,330
20300100	CHANNEL EXCAVATION	CU YD	300
20700110	POROUS GRANULAR EMBANKMENT	TON	180
* 25001000	SEEDING, CLASS 2, (SPECIAL)	ACRE	0.5
25100630	EROSION CONTROL BLANKET	SQ YD	2,500
* 28101700	RIPRAP, SPECIAL	TON	820
28200100	FILTER FABRIC FOR USE WITH RIPRAP	SQ YD	920
* 28300400	AGGREGATE DITCH	TON	535
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	23
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	160
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	440
44000100	PAVEMENT REMOVAL	SQ YD	68
48101200	AGGREGATE SHOULDERS, TYPE B	TON	262
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
* 50104650	SLOPE WALL REMOVAL	SQ YD	560
50300225	CONCRETE STRUCTURES	CU YD	90.3
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAM (21" DEPTH)	SQ FT	1,080
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAM (27" DEPTH)	SQ FT	1,800
50500505	STUD SHEAR CONNECTORS	EACH	56
50800105	REINFORCEMENT BARS	POUND	5,930
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	195
51201400	FURNISHING STEEL PILES HP10X42	FOOT	952
51202700	DRIVING STEEL PILES	FOOT	952
51203400	TEST PILE STEEL HP10X42	EACH	1
51204315	CONCRETE ENCASEMENT	CU YD	2.0
51500100	NAME PLATES	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	262
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	216
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	425
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	300
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,400
* 78200400	GUARDRAIL REFLECTORS	EACH	12
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* X0392300	DITCH CHECK REMOVAL	EACH	8
* X4066416	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N70	TON	150
* X4066616	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	TON	116
* X4066770	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70	TON	42

\* SEE SPECIAL PROVISIONS

**ROADWAY QUANTITIES SCHEDULE**

LOCATION (STATION TO STATION)	BIT. SURF. CSE. SUPERPAVE MIX C N70 1 1/2" MIN. (TON)	LEVELING BINDER MM N70 3/4" (TON)	BIT. BINDER SUPERPAVE IL-19.0 N70 VAR. DEPTH (TON)	BITUMINOUS MATERIALS (PRIME COAT) (GAL)	BITUMINOUS SURFACE REMOVAL BUTT-JOINT (SQ YD)	AGGREGATE SHOULDER TYPE B 4" (TON)	PAVEMENT REMOVAL (SQ YD)
STA. 7+00 TO STA. 9+56.54	53.2	33.2	98.8	62.7	73.3	132.6	-
STA. 10+51.46 TO STA. 13+00	53.1	8.7	16.7	60.8	366.7	129.7	-
BRIDGE							
STA. 9+56.54 TO STA. 10+51.46	42.9	-	-	32.8	-	-	68.3
TOTAL	149.2	41.9	115.5	156.3	440.0	262.3	68.3
USE	150	42	116	160	440	262	68

**EARTHWORK SCHEDULE**

LOCATION	EARTH EXCAVATION (CU YD)	SHRINKAGE FACTOR	PERCENT USED	AVAILABLE* EXCAVATION (CU YD)	EMBANKMENT REQUIRED (CU YD)	EARTHWORK BALANCE (CU YD)
STA. 7+00 TO STA. 9+56.50	1,158	25%	100%	868	191	678
STA. 9+56.50 TO STA. 10+51.50	-	25%	100%	-	-	-
STA. 10+51.50 TO STA. 13+00	167	25%	100%	125	491	-366
CHANNEL EXCAVATION	300	25%	70%	158	-	158
TOTAL	1,324			1,151	682	470
USE:	1,330					470

\* AVAILABLE EXCAVATION = EXC. x (1-SHRINKAGE FACTOR) x % USED

(WASTE)

**GENERAL NOTES**

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2002," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
2. ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE CONSIDERED INCLUDED IN COST FOR EARTH EXCAVATION IN THE CONTRACT. REMOVAL OF EXISTING RIPRAP DITCH LINING SHALL BE PAID FOR AS EARTH EXCAVATION.
3. THE LOCATIONS OF EXISTING ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
4. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS UNTIL THE OWNER, HIS AGENT, PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
5. THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
6. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES  
 RIPRAP, SPECIAL 1.75 TON/CU YD  
 POROUS GRANULAR EMBANKMENT 2.00 TON/CU YD  
 BITUMINOUS CONCRETE 112 LB/IN/SQ YD  
 AGGREGATE SHOULDERS 2.00 TON/SQ YD
7. THE AREA TO BE SEEDDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITY = 0.5 ACRES.
8. TREES WITHIN THE RIGHT OF WAY AND EASEMENTS WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER.

ROUTE NO. F.A.S. 1870	SECTION 03-00136 -00-BR	COUNTY JACKSON	SHEET NO. 20	SHEET TOTAL 2
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CONTRACT NO. 99203

**AGGREGATE DITCH**

LOCATION	WIDTH AVERAGE	STONE RIPRAP CLASS A-4 (TONS)	FILTER FABRIC FOR RIPRAP (SQ YD)
LT STA 8+00 TO LT STA 9+00	19	123	211
LT STA 9+00 TO LT STA 9+94	15	91	157
RT STA 8+00 TO RT STA 9+00	19	123	211
RT STA 9+00 TO RT STA 9+79	15	77	132
LT STA 10+26 TO LT STA 12+00	15	121	207
TOTAL		535	920

**EROSION CONTROL BLANKET**

LOCATION	SQ YD
LT. STA. 7+00.00 TO LT. STA. 9+56.54	631
RT. STA. 7+00.00 TO RT. STA. 9+56.54	582
RT. STA. 10+51.46 TO RT. STA. 13+00.00	635
LT. STA. 10+51.46 TO LT. STA. 13+00.00	373
TOTAL	2,221
USE	2,225

**TREE REMOVAL, ACRES**

LOCATION	ACRES
STA. 7+00, 30' LT. TO 9+00 50' LT.	0.09
STA. 7+00, 30' RT. TO 8+80, 50' RT.	0.07
STA. 8+00, 35' RT. TO 9+50, 50' RT.	0.03
STA. 9+00, 40' LT. TO 9+60, 55' LT.	0.02
TOTAL	0.21
USE	0.21

**PAINT PAVEMENT MARKING - LINE 4"**

LOCATION	FOOT
WHITE EDGE LINE	
LT. & RT. STA. 7+00 TO STA. 13+00	1,200
DASHED YELLOW CENTERLINE	
STA. 7+00 TO STA. 13+00	600
SOLID YELLOW CENTERLINE	
STA. 7+00 TO STA. 13+00	600
TOTAL	2,400

**TRAFFIC BARRIER TER., TY 1, SPL (TANG)**

LOCATION	EACH
RT. STA. 7+53.3 TO STA. 8+03.3	1
LT. STA. 8+16.8 TO STA. 8+66.8	1
RT. STA. 11+40.6 TO STA. 11+90.6	1
LT. STA. 12+03.1 TO STA. 12+53.1	1
TOTAL	4

**TRAFFIC BARRIER TERMINAL, TYPE 5A**

LOCATION	EACH
RT. STA. 9+41.8 TO STA. 9+55.1	1
LT. STA. 9+41.8 TO STA. 9+55.1	1
RT. STA. 10+52.3 TO STA. 10+65.6	1
LT. STA. 10+52.3 TO STA. 10+65.6	1
TOTAL	4

**STEEL PLATE BEAM GUARDRAIL, TYPE A**

LOCATION	FOOT
RT. STA. 8+03.3 TO STA. 9+41.8	137.5
LT. STA. 8+66.8 TO STA. 9+41.8	75
RT. STA. 10+65.6 TO STA. 11+40.6	75
LT. STA. 10+65.6 TO STA. 12+03.1	137.5
TOTAL	425

**HLR**  
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 Account Number 12-47-0016-1  
 Date: 10-28-04  
 DESIGNED: S.W.M. CHECKED: S.W.M. DRAWN: D.B.

**SUMMARY OF QUANTITIES AND GENERAL NOTES**

F.A.S. 1870 / C.H. 7  
 SECTION 03-00136-00-BR  
 JACKSON COUNTY