

### SUMMARY OF QUANTITIES

		CONSTRUCTION CODE X081-2A	
CODE NO	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	100
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	120
20200100	EARTH EXCAVATION	CU YD	800
20300100	CHANNEL EXCAVATION	CU YD	225
20400800	FURNISHED EXCAVATION	CU YD	280
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45
25000200	SEEDING CLASS 2	ACRE	0.5
25100115	MULCH, METHOD 2	ACRE	0.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100
28000300	TEMPORARY DITCH CHECKS	EACH	16
28100207	STONE RIPRAP, CLASS A4	TON	330
28102600	STONE RIPRAP DITCH	TON	360
28200200	FILTER FABRIC	SQ YD	470
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	380
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	20.0
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	1,824
50800105	REINFORCEMENT BARS	POUND	2,550
50900205	STEEL RAILING, TYPE S1	FOOT	159
51201400	FURNISHING STEEL PILES HP10X42	FOOT	92
51204315	CONCRETE ENCASEMENT	CU YD	3.8
51500100	NAME PLATES	EACH	1
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4
67100100	MOBILIZATION	L SUM	1
78201000	TERMINAL MARKER DIRECT APPLIED	EACH	4
Z0065000	SETTING PILES IN ROCK	EACH	8

SEE SPECIAL PROVISIONS

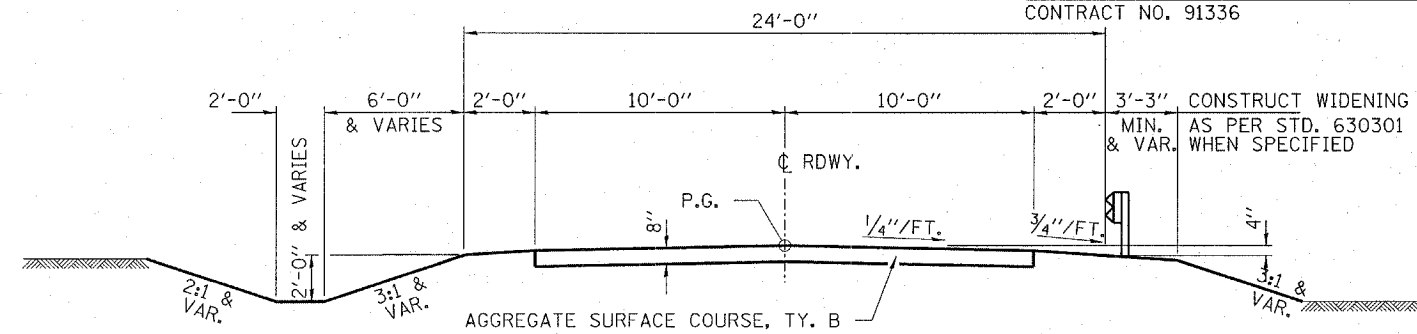
### GENERAL NOTES

- 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.
- ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 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.
- 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.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES  
 AGGREGATE SURFACE CSE. 2.05 TON/CU YD  
 STONE RIPRAP, CL. A4 1.75 TON/CU YD (0.7 TON / SQ YD)  
 STONE RIPRAP DITCH 1.75 TON/CU YD (0.5 TON / SQ YD)
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITY = 0.5 ACRES.
- TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER. SEE SHEET 3 FOR LOCATIONS.

### EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	SHRINKAGE FACTOR	PERCENT USED	AVAILABLE* EXCAVATION (CU YD)	EMBANKMENT REQUIRED (CU YD)	EARTHWORK BALANCE (CU YD)
STA. 6+00 TO STA. 9+59.33	571	25%	100%	428	184	244
STA. 9+59.33 TO STA. 10+36.68	0	25%	100%	0	0	0
STA. 10+36.68 TO STA. 14+00	223	25%	100%	167	809	-642
CHANNEL EXCAVATION ENTRANCES	225	25%	70%	118		118
TOTAL	794			713	993	-280
USE:	800					280

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



SUGGESTED CUT SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

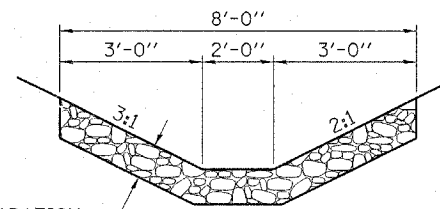
SUGGESTED FILL SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

ROAD CLASSIFICATION - LOCAL ROAD ADT 0-250  
CURRENT ADT 125  
DESIGN SPEED: 30 M.P.H.

### TYPICAL CROSS SECTION

STA. 8+50 TO STA. 12+00

TRANSITION FROM PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 8+00 TO STA. 8+50 AND FROM STA. 12+00 TO STA. 12+50. SEE SHEET 7 FOR TRANSITION AT BRIDGE.



12" RR4 GRADATION

### STONE RIPRAP DITCH

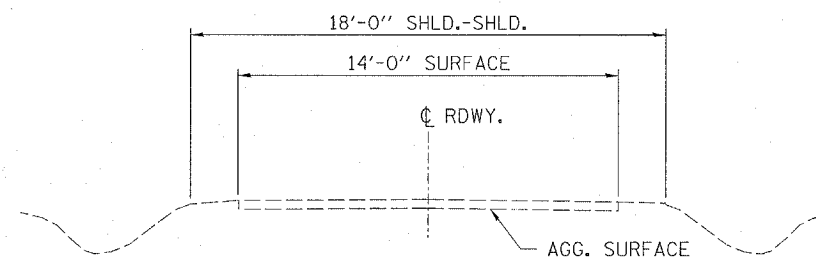
LT. & RT. STA. 8+00 TO STA. 9+75  
LT. & RT. STA. 10+25 TO STA. 12+50  
ESTIMATED QUANTITY = 360 TON

### TRAFFIC BARRIER TERMINAL, TYPE 5A

LOCATION	EACH
RT. STA. 9+44.93 TO STA. 9+58.18	1
LT. STA. 9+49.16 TO STA. 9+62.41	1
RT. STA. 10+37.59 TO STA. 10+50.84	1
LT. STA. 10+41.82 TO STA. 10+55.07	1
TOTAL	4

### TRAFFIC BARRIER TERMINAL, TY 1, SPL (TANG)

LOCATION	EACH
RT. STA. 8+94.93 TO STA. 9+44.93	1
LT. STA. 8+99.16 TO STA. 9+49.16	1
RT. STA. 10+50.84 TO STA. 11+00.84	1
LT. STA. 10+55.07 TO STA. 11+05.07	1
TOTAL	4



### EXISTING CROSS SECTION

**HLR**  
 Rice, Berry and Associates  
 A Division of Hampton,  
 Lenzini and Renwick, Inc.  
 Civil & Structural Engineers  
 3085 Stevenson Drive  
 Suite 201  
 Springfield, Illinois 62703  
 217-546-3400  
 P.O. Box 1036  
 Duquoin, Illinois 62832  
 618-790-4637  
 Account Number 12-87-0013-1  
 Date: 12/07/05  
 DESIGNED: D.B. CHECKED: S.W.M. DRAWN: D.B.

### SUMMARY OF QUANTITIES AND TYPICAL SECTIONS

SECTION 02-23112-00-BR  
TOWER HILL ROAD DISTRICT  
SHELBY COUNTY