

SUMMARY OF QUANTITIES

NUMBER	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	90
20300100	CHANNEL EXCAVATION	CU YD	110
20400800	FURNISHED EXCAVATION	CU YD	591
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.6
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	60
28000300	TEMPORARY DITCH CHECKS	EACH	2
28000400	PERIMETER EROSION BARRIER	FOOT	800
28100207	STONE RIPRAP, CLASS A4	TON	282
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	55
28200200	FILTER FABRIC	SQ YD	385
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	18
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	339
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	618
40300500	COVER COAT AGGREGATE	TON	11
40300600	SEAL COAT AGGREGATE	TON	11
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	222
48100100	AGGREGATE SHOULDERS, TYPE A	TON	147
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	32.2
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	2310
50800105	REINFORCEMENT BARS	POUND	3480
50900205	STEEL RAILING, TYPE S1	FOOT	154
51201600	FURNISHING STEEL PILES, HP12X53	FOOT	420
51202700	DRIVING STEEL PILES	FOOT	420
51203600	TEST PILE STEEL, HP12X53	EACH	2
51500100	NAME PLATES	EACH	1
51204315	CONCRETE ENCASMENT	CU YD	5.6
54200223	PIPE CULVERTS, CLASS D, TYPE 1, 18"	FOOT	34
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	257
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	200
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	2
63200310	GUARDRAIL REMOVAL	FOOT	220
67100100	MOBILIZATION	L SUM	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	4
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	30
LR355175	BITUMINOUS STABILIZED BASE COURSE	TON	261

*SEE SPECIAL PROVISIONS

CONSTRUCTION TYPE CODE: X081-1A

GENERAL NOTES

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY, AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 (SPECIAL) = 0.6 ACRE

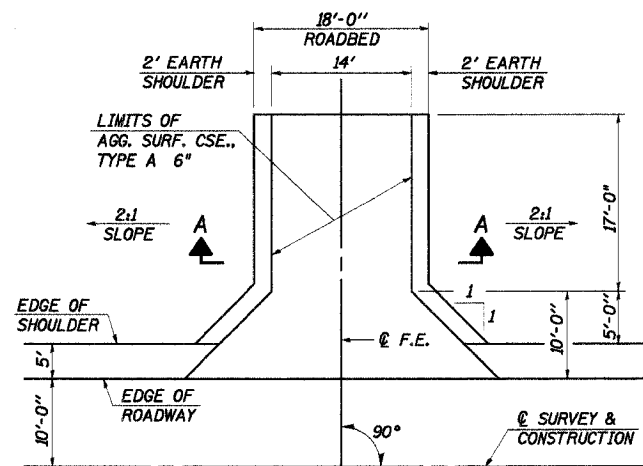
TEMPORARY EROSION CONTROL

THE FOLLOWING QUANTITIES ARE ESTIMATES ONLY. ACTUAL QUANTITIES FOR EROSION CONTROL WILL BE DETERMINED BY THE ENGINEER IN THE FIELD AND THERE WILL BE NO ADJUSTMENT IN ANY PRICE DUE TO A CHANGE IN PLAN QUANTITY.

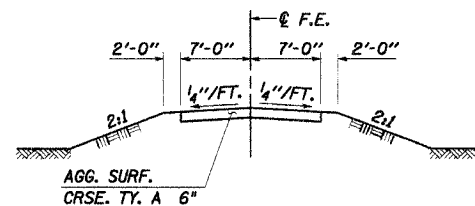
- PERIMETER EROSION BARRIER = 800 FOOT
- TEMPORARY EROSION CONTROL SEEDINGS = 60 POUND
- TEMPORARY DITCH CHECKS = 2 EACH

BITUMINOUS MIXTURE REQUIREMENTS

ITEM	AGGREGATE COMPOSITION	ASPHALT GRADE	ALLOWABLE RAP	VOIDS
SURFACE, MIX C, N50	IL-9.5 OR 12.5	P.G. 64-22	15%	4.0%



FIELD ENTRANCE DETAIL
F.E. LT. STA. 17+33



SECTION A-A

APPLICATION RATES USED IN QUANTITY CALCULATIONS

STONE RIPRAP, CLASS A4	1.65 TON/CU YD
AGGREGATE BASE	2.05 TON/CU YD
AGGREGATE SURFACE AND AGGREGATE SHOULDERS	2.05 TON/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.35 GAL/SQ YD
BITUMINOUS MIXTURES	112#/SQ YD/IN
COVER AND SEAL COAT AGGREGATE	25#/SQ YD/IN
GRANULAR MATERIALS	2.05 TON/CU YD

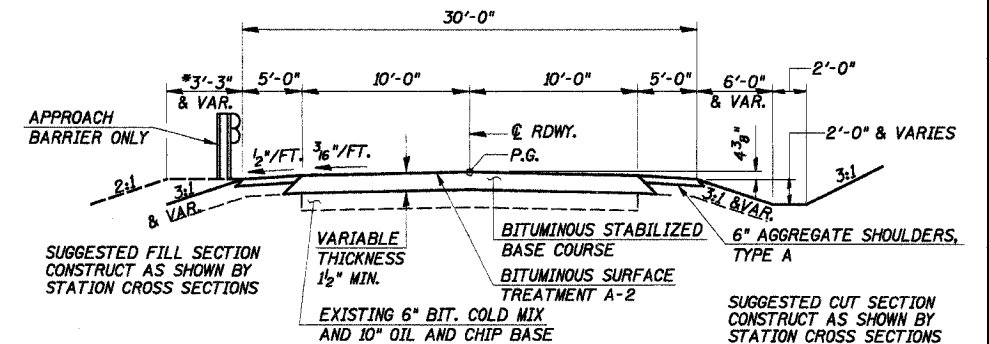
PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC (S.D.T.): YEAR 2014; P.V. = 297, S.U. = 24, M.U. = 17
CLASS IV ROAD; 73,280 POUND LOAD LIMIT

MINIMUM SOIL SUPPORT: I.B.R. = 3.0 (ASSUMED)

PERCENT OF S.D.T. IN DESIGN LANE: P = 50%, S = 50%, M = 50%
T.F. = 0.016; DT = 2.18

PAVEMENT STRUCTURAL MATERIAL:
BITUMINOUS STABILIZING MIX ----- 1.5" x 0.20 = 0.30
EXISTING BITUMINOUS BASE ----- 6.0" x 0.15 = 0.90
BITUMINOUS TREATED AGGREGATE ----- 10.0" x 0.10 = 1.00
TOTAL = 2.20"

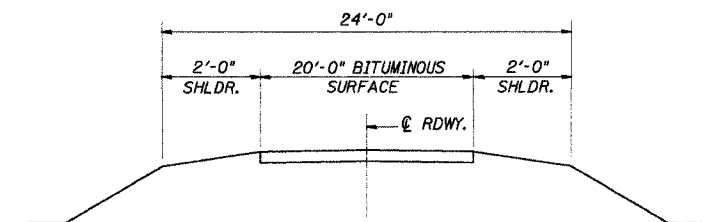


TYPICAL PROPOSED CROSS SECTION

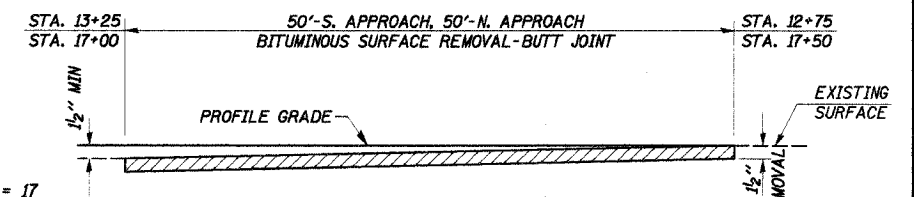
STA. 13+25 TO STA. 17+00
ROAD CLASSIFICATION: LOCAL ROAD ADT 250-400
CURRENT ADT 298

TRANSITION FROM EXISTING ROADWAY TO PROPOSED ROADWAY TO BE CONSTRUCTED FROM STA. 12+75 TO STA. 13+25 AND FROM STA. 17+00 TO STA. 17+50.

*SEE SHEET 4 FOR SHOULDER WIDENING DETAILS.



EXISTING TYPICAL CROSS SECTION



BUTT JOINT

SUMMARY OF QUANTITIES, GENERAL NOTES AND TYPICAL CROSS SECTION
COUNTY HIGHWAY 5
SECTION 03-00087-00-BR
CHRISTIAN COUNTY
STATION 15+00

4440 ASH GROVE
SPRINGFIELD, IL 62707
(217) 783-8600
oasinc@famvid.com

OZYURT AND STONE, INC.
CONSULTING ENGINEERS

JOB NO.: 0305
FILE: SUMTYP.DGN
DATE: 03-15-04

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 5 FAS 639	03-00087-00-BR	CHRISTIAN	12	2

ILLINOIS
CONTRACT NO. 93402