

**SUMMARY OF QUANTITIES**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SI
C.H. 10 FAS 732	01-00083 -00-BR	CHRISTIAN	12	

ILLINOIS CONTRACT NO. 93103

NUMBER	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	46
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	16
20200100	EARTH EXCAVATION	CU YD	70
20300100	CHANNEL EXCAVATION	CU YD	160
* 20400800	FURNISHED EXCAVATION	CU YD	308
* 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	1,000
* 28100207	STONE RIPRAP, CLASS A4	TON	266
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	68
28200200	FILTER FABRIC	SQ YD	363
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	53
* LR355175	BITUMINOUS STABILIZED BASE COURSE	TON	366
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	438
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	802
40300500	COVER COAT AGGREGATE	TON	15
40300600	SEAL COAT AGGREGATE	TON	15
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	184
48100100	AGGREGATE SHOULDERS, TYPE A	TON	110
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	35.2
* 50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	2,310
50800105	REINFORCEMENT BARS	POUND	3,880
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	156
51201400	FURNISHING STEEL PILES, HP10X42	FOOT	550
51202700	DRIVING STEEL PILES	FOOT	550
51203400	TEST PILE STEEL, HP10X42	EACH	2
51500100	NAME PLATES	EACH	1
51204315	CONCRETE ENCASEMENT	CU YD	4.2
* 54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	86
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	257
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	200
63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	175
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4
* 63100175	TRAFFIC BARRIER TERMINAL, TYPE 2 (SPECIAL)	EACH	2
63200310	GUARDRAIL REMOVAL	FOOT	163
67100100	MOBILIZATION	L SUM	1
* 70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
* 78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	4
* X4056414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	30

\*SEE SPECIAL PROVISIONS

CONSTRUCTION TYPE CODE: X080

**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 SEEDING SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY, AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 (SPECIAL) = 0.6 ACRE

- ALL TREES BETWEEN THE PROPOSED R.O.W. LINES THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AS DIRECTED BY THE ENGINEER.

ESTIMATED QUANTITIES:

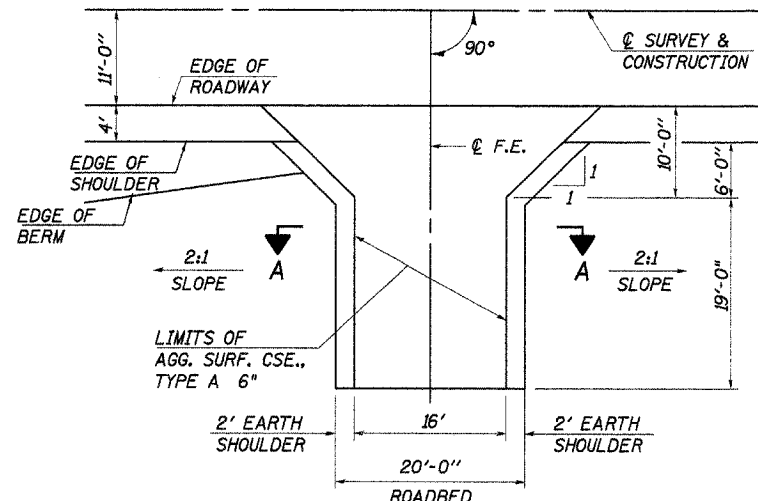
TREE REMOVAL (6 TO 15 UNITS DIAMETER) = 46 UNITS  
 TREE REMOVAL (OVER 15 UNITS DIAMETER) = 16 UNITS

**TEMPORARY EROSION CONTROL**

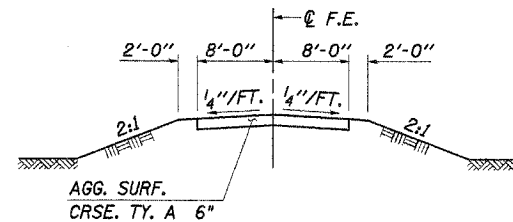
THE FOLLOWING QUANTITIES ARE ESTIMATES ONLY. ACTUAL QUANTITIES FOR EROSION CONTROL WILL BE DETERMINED BY THE ENGINEER IN THE FIELD AND THERE WILL BE NO ADJUSTMENT IN ANY PRICE DUE TO A CHANGE IN PLAN QUANTITY.

PERIMETER EROSION BARRIER = 1000 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. RT. STA. 22+72



**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 & 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
GRANULAR MATERIALS	2.05 TON/CU YD

**PAVEMENT DESIGN**

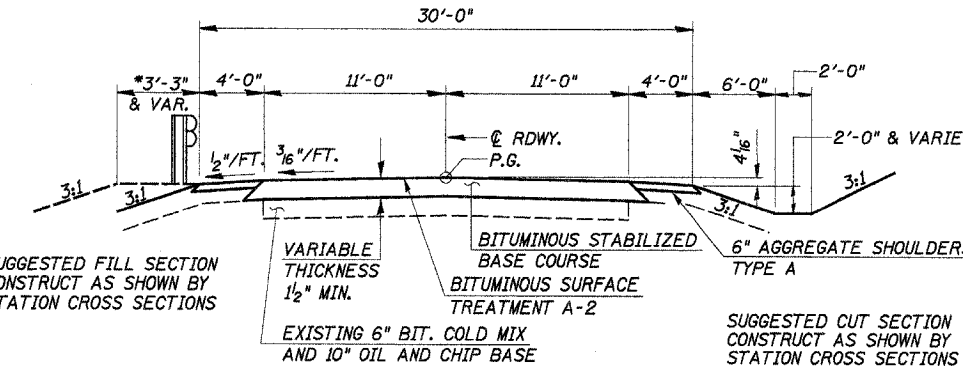
STRUCTURAL DESIGN TRAFFIC (S.D.T.): YEAR 2012: P.V. = 780, S.U. = 62, M.U. = 44  
 CLASS III ROAD: 73,280 POUND LOAD LIMIT

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. = 0.144; DT = 3.08

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
<b>TOTAL</b>	<b>2.20" (WAIVERED)</b>



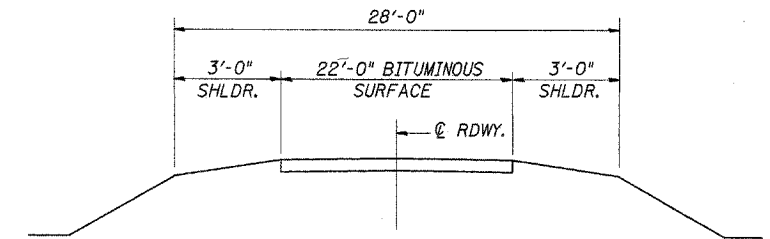
**TYPICAL PROPOSED CROSS SECTION**

STA. 22+50 TO STA. 26+50

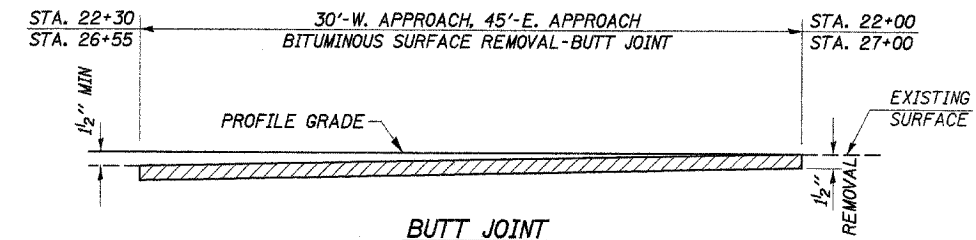
ROAD CLASSIFICATION: LOCAL ROAD ADT 400 & OVER  
 CURRENT ADT 750

TRANSITION FROM EXISTING ROADWAY TO PROPOSED ROADWAY TO BE CONSTRUCTED FROM STA. 22+00 TO STA. 22+50 AND FROM STA. 26+50 TO STA. 27+47.78.

\*SEE SHEET 4 FOR SHOULDER WIDENING DETAILS.



**EXISTING TYPICAL CROSS SECTION**



**BUTT JOINT**

**SUMMARY OF QUANTITIES, GENERAL NOTES AND TYPICAL CROSS SECTION**

SECTION 01-00083-00-BR  
 F.A.S. ROUTE 732 (C.H. 10)  
 CHRISTIAN COUNTY  
 STATION 24+99

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 SPRINGFIELD, IL 62707  
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**OZYURT AND STONE, INC.**  
 CONSULTING ENGINEERS

JOB NO.: 0304  
 FILE: SUMTYP.DGN  
 DATE: 02-19-04