

**SUMMARY OF QUANTITIES**

X081-2A

NUMBER	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	705
* 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.7
28000250	TEMPORARY EROSION CONTROL SEEDINGS	POUND	50
* 28000300	TEMPORARY DITCH CHECKS	EACH	3
28000400	PERIMETER EROSION BARRIER	FOOT	400
* 28100208	STONE RIPRAP, CLASS A4 (SPECIAL)	TON	10
35101400	AGGREGATE BASE COURSE, TYPE B	TON	856
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	30
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	514
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50800105	REINFORCEMENT BARS	POUND	22,380
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	375
50900205	STEEL RAILING, TYPE S1	FOOT	52
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	152.7
54200229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	50
550A0030	STORM SEWERS, CLASS A, TYPE 1 8"	FOOT	20
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	20
550A0060	STORM SEWERS, CLASS A, TYPE 1 14"	FOOT	20
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	4
* 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	112
* X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	112

\*SEE SPECIAL PROVISIONS

**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.

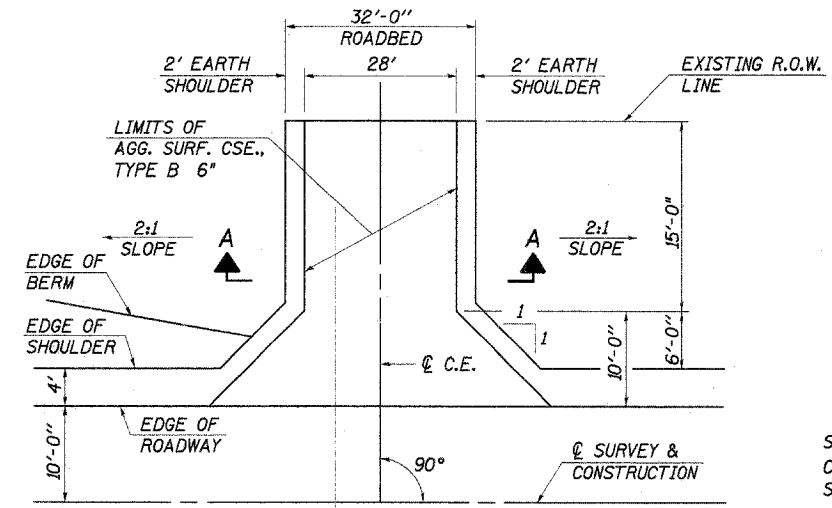
THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY, AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 (SPECIAL) = 0.7 ACRE

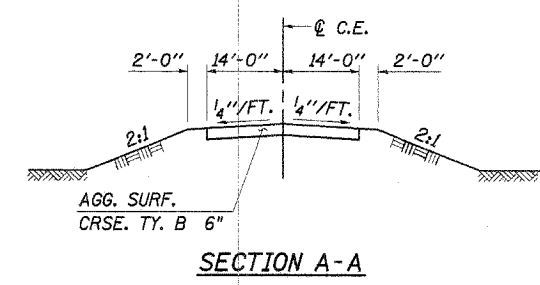
**TEMPORARY EROSION CONTROL**

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 UNIT PRICE DUE TO A CHANGE IN PLAN QUANTITY.

- PERIMETER EROSION BARRIER = 400 FOOT
- TEMPORARY EROSION CONTROL SEEDINGS = 50 POUND
- TEMPORARY DITCH CHECKS = 3 EACH

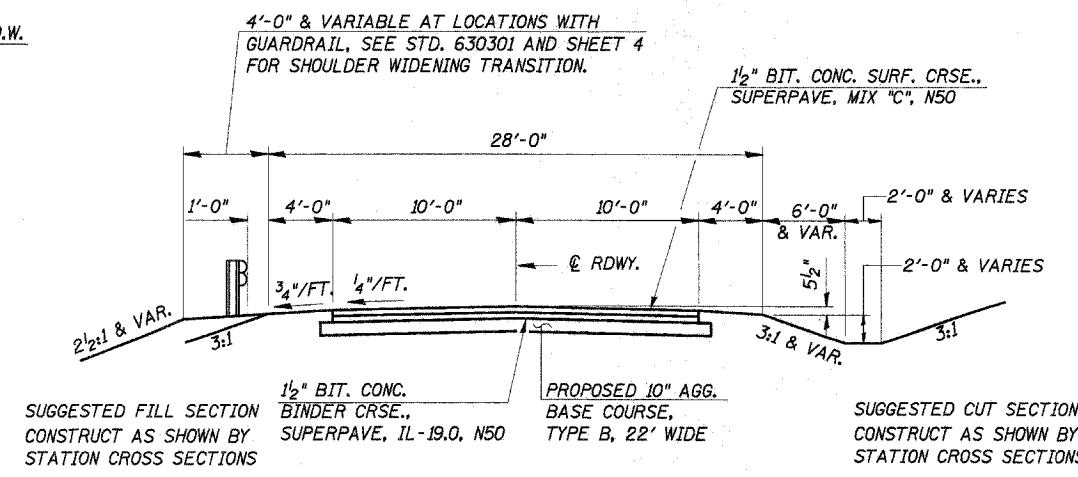


**COMMERCIAL ENTRANCE DETAIL**  
C.E. LT. STA. 16+11



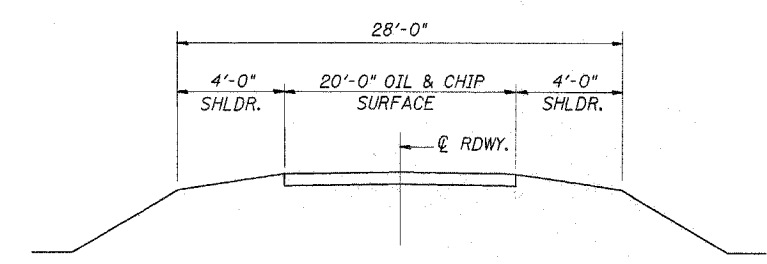
**SECTION A-A**

BITUMINOUS MIXTURE REQUIREMENTS		
MIXTURE USE(S)	SURFACE COURSE/ INCIDENTAL BITUMINOUS SURFACING	BINDER COURSE
AC/PG:	58-22	58-22
RAP %: (MAX)	15%	15%
DESIGN AIR VOIDS:	3.0% • $N_{des} = 50$	3.0% • $N_{des} = 50$
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE C	N/A

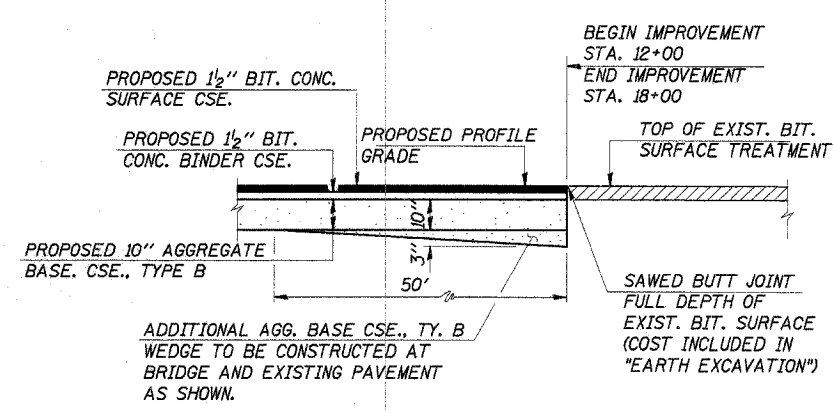


**TYPICAL PROPOSED CROSS SECTION**

STA. 12+50 TO STA. 17+50  
ROAD CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)  
CURRENT ADT: 394  
TRANSITION FROM EXISTING ROADWAY TO PROPOSED ROADWAY TO BE CONSTRUCTED FROM STA. 12+00 TO STA. 12+50 AND FROM STA. 17+50 TO STA. 18+00.



**EXISTING TYPICAL CROSS SECTION**



**ELEVATION AT BEGINNING AND END OF IMPROVEMENT**

**JOINT DETAILS**

**SUMMARY OF QUANTITIES, GENERAL NOTES AND TYPICAL CROSS SECTION**  
COUNTY HIGHWAY 1  
SECTION 02-00076-00-BR  
MARSHALL COUNTY  
STATION 15+00