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l	ROUTE NO.	SECTION	cou	мтү	TOTAL SHEETS	SHEET NO.
	C.H. 12	02-00083- 00-BR	MACC	DUPIN	15	2
ſ	FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PR	ЮЈЕСТ—	

CODE NO.	ITEM	UNIT	QUANTII
20100500		ACRE	0.2
	TREE REMOVAL, ACRES	CU YD	520
20200100 20300100	EARTH EXCAVATION CHANNEL EXCAVATION	CU YD	680
		CU YD	
20400800	* FURNISHED EXCAVATION		590
20700220	POROUS GRANULAR EMBANKMENT	CU YD	200
25001000	* SEEDING CLASS 2 (SPECIAL)	ACRE	0.6
28000300	TEMPORARY DITCH CHECKS	EACH SQ YD	8
28100107	STONE RIPRAP, CLASS A4 * STONE RIPRAP DITCH	TON	319
28102600	*·*··	SO YD	95
28200400	FILTER FABRIC		319
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	111
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	160
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD FOOT	32
44004000	PAVED DITCH REMOVAL	1	123
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	172
50300225	CONCRETE STRUCTURES	CU YD	32.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	108.3
50300260	BRIDGE DECK GROOVING	SQ YD	333
50300300	PROTECTIVE COAT	SQ YD	493
50401005	* FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I—BEAMS, 48 IN.	FOOT	492
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	21,52
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	167
51201100	FURNISHING METAL PILE SHELLS 14"	FOOT	720
51202600	DRIVING AND FILLING SHELLS	FOOT	720
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18" (CSCP)	FOOT	36
61139900	* STORM SEWER (SPECIAL) 6"	FOOT	30
61140000	* STORM SEWER (SPECIAL) 8"	FOOT	30
61140100	* STORM SEWER (SPECIAL) 10"	FOOT	30
61140200	* STORM SEWER (SPECIAL) 12"	FOOT	30
63000005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	50
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
63100167	* TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	407
70101830	* TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
78201000	* TERMINAL MARKER-DIRECT APPLIED	EACH	4
Z0002600	BAR SPLICERS	EACH	48
X3550400	* BITUMINOUS BASE COURSE SUPERPAVE 7"	SQ YD	1,20
X4066414	* BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N 50	TON	93
XX005347	* BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, N 50	TON	93

	24'±	
2'+	20'± 2'±	
	Existing Bituminous Surface Treatment	
<u>EXISTIN</u>	IG TYPICAL CROSS SECTION	41\ &

Suggested Fill Section

APPLICATION RATES USED IN QUANTITY CALCULATIONS

GRANULAR MATERIALS BITUMINOUS MATERIALS (PRIME COAT) 0.10 GALLON/SQ. YD. 112 LBS./SQ. YD./INCH 1.75 TON/CU. YD. BITUMINOUS CONCRETE (BINDER AND SURFACE COURSE) STONE RIPRAP

BITUMINOUS	CONCRETE MIXTURE RE	QUIREMENTS	
ITEM	ASPHALT GRADE	ALLOWABLE RAP	VOIDS
BINDER, SUPERPAVE, N50	PG 64-22	20%	4.0%
SURFACE, SUPERPAVE (Mix 'C') N50	PG 64-22	15%	4.0%

GUARD RAIL SCHEDULE

TRAFFIC BARRIER TERMINAL, TY. 6A	TRAFFIC BARRIER TERMINAL, TY.1 SPECIAL (TANGENT)
T. STA, 9+18.27 TO 9+46.84 = 1 EACH	LT. STA. $8+68.27$ TO $9+18.27 = 1$ EACH
T. STA. 9+21.42 TO 9+49.99 = 1 EACH	RT. STA. 8+46.42 TO 8+96.42 = 1 EACH
T. STA. 10+30.01 TO 10+58.58 = 1 EACH	LT. STA. 10+83.58 TO 11+33.58 = 1 EACH
T. STA. $10+33.16$ TO $10+61.73 = 1$ EACH	RT. STA. 10+61.73 TO 11+11.73 = 1 EACH
$\overline{TOTAL} = \overline{4} EACH$	TOTAL = 4 EACH

STEEL PLATE BEAM GUARD RAIL, TYPE B LT. STA. 10+58.58 TO 10+83.58 = 25 FOOT RT. STAL 8+96.42 TO 9+21.42 = 25 FOOT TOTAL = 50 FOOT

GUARD RAIL REMOVAL

LT. STA. 8+81 TO 9+33 = 61 FOOT LT. STA. 9+57 TO 9+83 = 40 FOOT RT. STA. 8+81 TO 9+83 = 102 FOOT LT. STA. 10+23 TO 11+25 = 102 FOOT RT. STA. 10+23 TO 11+25 = 102 FOOT TOTAL = 407 FOOT

PAVED DITCH REMOVAL

LT. STA. 8+34 TO 9+34 = 100 FOOT RT. STA. 9+00 TO 9+23 = 23 FOOT TOTAL = 123 FOOT

GENERAL NOTES

WHERE SECTION AND 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, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AND EASEMENTS AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 (SPECIAL) = 0.6 ACRES

ALL TREES THAT INTERFERE WITH CONSTRUCTION WITHIN THE R.O.W. AND EASEMENTS SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER.

THE COST OF REMOVAL OF ANY OBSTRUCTIONS OR CULVERTS NOT OTHERWISE INCLUDED IN REMOVAL OF EXISTING STRUCTURES WHICH INTERFERE WITH CONSTRUCTION WILL BE CONSIDERED INCIDENTAL TO THE COST OF EARTH

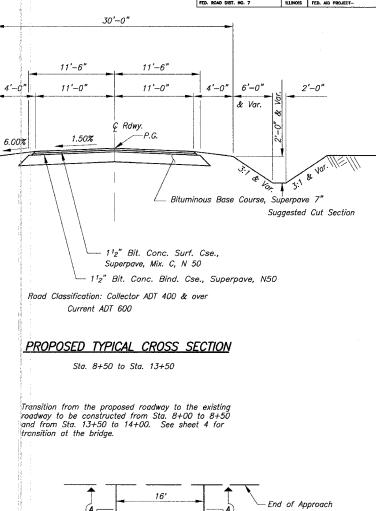
STORM SEWERS, SPECIAL QUANTITIES FOR FIELD TILE REPLACEMENT ARE ESTIMATED QUANTITIES ONLY AND ARE LISTED FOR THE PURPOSE OF ESTABLISHING A CONTRACT UNIT PRICE.

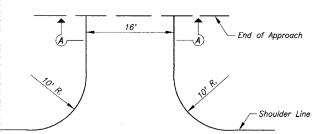
ALL PLAN ELEVATIONS REPRESENT U.S.G.S. DATUM.

PAVEMENT MARKING SHALL BE DONE BY OTHERS IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

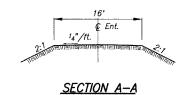
PAVEMENT DESIGN DATA

Design Period = 20 Years Design Penoa = 20 tea(S.D.T.) = 730 Yr. 2013 PV = 642 SU = 51 MU = 1137 Class III Route = 750 M=50 Percent of S.D.T. in Design Lane P=50 S=50 M=50 Traffic Factor: T.F. = 0.199 Minimum Soil Support: IBR=3.0 Structural Number: D_t =3.22 Pavement Structure: V_t =3.22 Pavement Structure: Surface Course Type: 3" Bit. Conc. Superpave a_1 =0.40 Base Course Type: 7" Bit. Base Superpave, a_2 =0.30 D_t Furnished = 3.30





FIELD ENTRANCE DETAIL



SHEET TITLE SUMMARY OF QUANTITIES & TYPICAL CROSS SECTION	
SECTION 02-00083-00-BR C.H. 12/F.A.S. 732 MACOUPIN COUNTY STATION 9+90	03016 SCALE DAYE 11-6-03 DRAWN BY MRL CHECKED BY MCB
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	OF 15 SHTS