

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S.1746	*	MONTGOMERY	11	2
PROJECT				

* 03-00122-00-BR

SUMMARY OF QUANTITIES

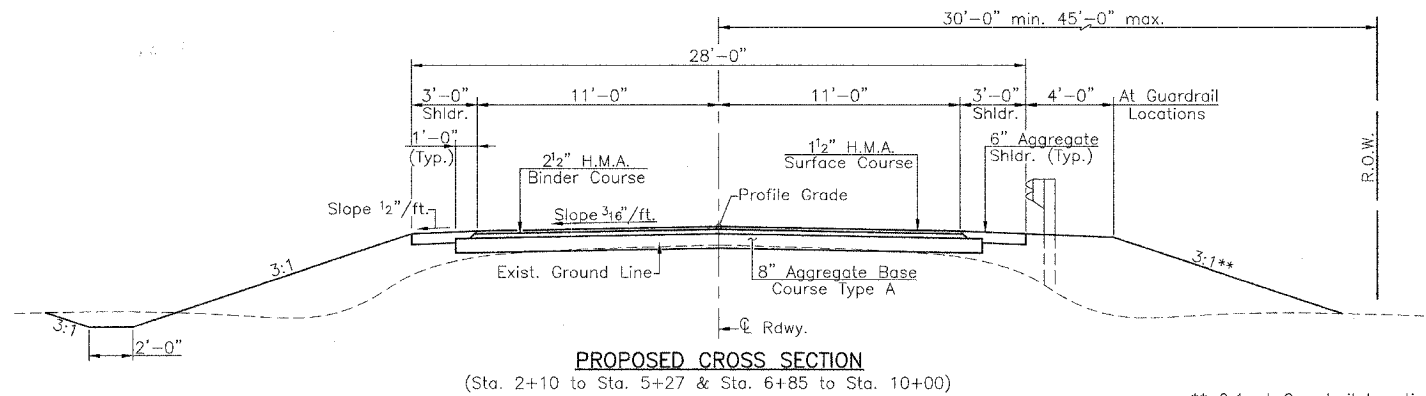
Item	Unit	Quantity
20100110	Tree Removal (6 to 15 Units Diameter)	16
20200100	Earth Excavation	299
20300100	Channel Excavation	2114
* 25001000	Seeding Class 2 (Special)	0.9
28000250	Temporary Erosion Control Seeding	180
28000300	Temporary Ditch Checks	4
28000400	Perimeter Erosion Barrier	1340
28100809	Stone Dumped Riprap, Class A5	1293
28200200	Filter Fabric	1390
35100100	Aggregate Base Course Type A	764
40600100	Bituminous Materials (Prime Coat)	585
40603080	Hot Mix Asphalt Binder Course, IL-19.0 N50	219
40603310	Hot Mix Asphalt Surface Course, Mix "C" N50	193
48100100	Aggregate Shoulders, Type A	141
* 50100100	Removal of Existing Structures	1
50200100	Structure Excavation	254
50300225	Concrete Structures	189.1
50400405	Precast Prestressed Concrete Deck Beams (21" Depth)	4365
50800105	Reinforcement Bars	14240
50900205	Steel Railing, Type S1	316
51201400	Furnishing Steel Piles HP 10x42	827
51202305	Driving Piles	827
51203400	Test Pile, Steel HP 10 x 42	2
51500100	Name Plates	1
58100200	Waterproofing Membrane System	492
58300100	Portland Cement Mortar Fairing Course	936
63100075	Traffic Barrier Terminal, Type 5A	2
63100167	Traffic Barrier Terminal, Type 1 Special (Tangent)	2
67100100	Mobilization	1
* 70101700	Traffic Control And Protection	1
78201000	Terminal Marker -- Direct Applied	4
* X5020501	Underwater Structure Excavation Protection -- Location 1	1
* X5020502	Underwater Structure Excavation Protection -- Location 2	1

* See Special Provisions Construction Type Code: X080

GENERAL NOTES

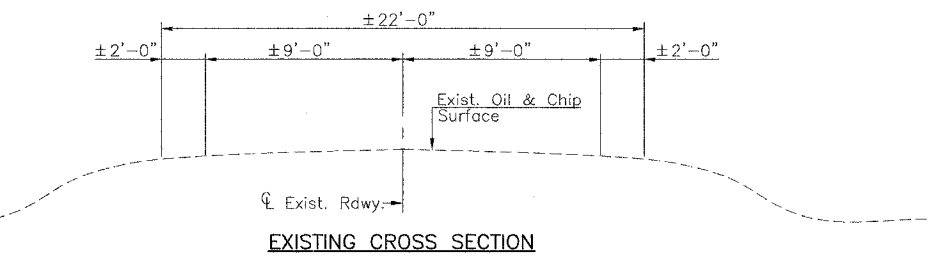
Where section or subsection stones are encountered, the Engineer shall be notified before such stones are removed. The contractor shall protect and preserve all property markers and monuments until the owner, authorized surveyor or agent has witnessed or referenced their location.

Seeding: Fertilizer nutrients shall be applied at a ratio of 1:1:1 and at a rate of 90 pounds per acre for each nutrient.
 Bituminous Materials computed at the rate of 0.375 Gal./Sq. Yd.
 Areas to be seeded shall consist of all disturbed earth surfaces within right-of-way as directed by the engineer.
 Bituminous Concrete quantities based on 112 lb./Sq. Yd./Inch.



PROPOSED CROSS SECTION
(Sta. 2+10 to Sta. 5+27 & Sta. 6+85 to Sta. 10+00)

** 2:1 at Guardrail Locations



EXISTING CROSS SECTION

EARTHWORK SCHEDULE

Location	Earth Excavation	Earth Excavation Adjusted For Shrinkage	Embankment	Earthwork Balance Waste (+) or Shortage (-)
	Cubic Yard	Cubic Yard	Cubic Yard	Cubic Yard
Sta. 2+10 to Sta. 3+00	25	19	48	-29
Sta. 3+00 to Sta. 4+00	35	26	163	-137
Sta. 4+00 to Sta. 5+00	57	43	224	-181
Sta. 5+00 to Sta. 5+27	27	20	62	-42
Bridge Omission - Sta. 5+27 to Sta. 6+85				
Sta. 6+85 to Sta. 7+00	17	13	26	-13
Sta. 7+00 to Sta. 8+00	69	52	189	-137
Sta. 8+00 to Sta. 9+00	41	30	169	-139
Sta. 9+00 to Sta. 10+00	28	21	65	-44
Total	299	224	946	*** 722

*** 722 Cu. Yds. of Excess Channel Excavation and Structure Excavation will be used from Sta. 2+10 to Sta. 10+00. No furnished excavation shall be required. Any other excess Channel Excavation shall be disposed of off site, or as directed by the Engineer. Cost to be included in Earth Excavation.

BITUMINOUS MIXTURE REQUIREMENTS

Mixture Use	Surface Course	Binder Course
AC/PG	PG64-22	PG64-22
Design Air Voids	4% @ Ndes = 50	4% @ Ndes = 50
(Gradation Mixture)	IL.9.5 or 12.5	IL-19.0
Friction Agg.	Mix. "C"	N/A

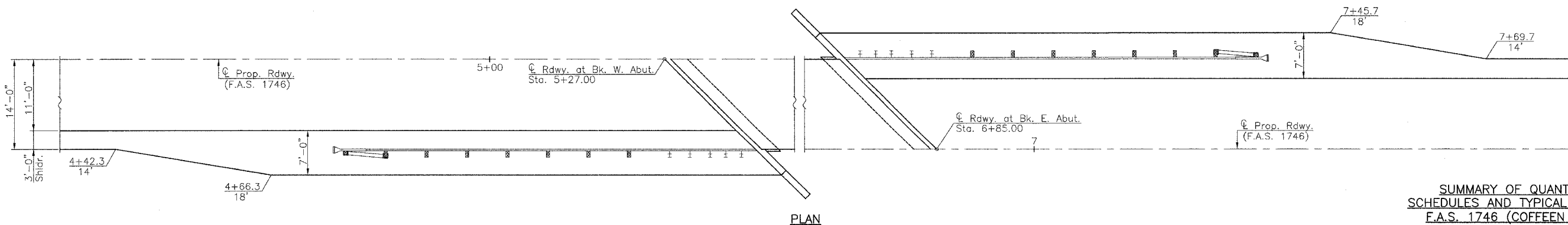
PAVEMENT DESIGN - 80000# DESIGN LOAD

Structural Design Traffic (S.D.T.): Year 2017: P.V.=446, S.U.= 22, M.U.= 22
 Class III Road

Minimum Soil Support: $E_{ri} > 3.0$

Percent of S.D.T. in Design Lane: P=50% S=50% M=50%
 T.F. = 0.11 $E_{AC} = 570$ $S_{AC} = 280$

Typical Proposed Roadway Cross Section: $T_{AC} = 4"$ HMA on 8" Aggregate Base, Type A



PLAN

SUMMARY OF QUANTITIES, SCHEDULES AND TYPICAL SECTIONS
F.A.S. 1746 (COFFEEN ROAD)
OVER EAST FORK SHOAL CREEK
SECTION 03-00122-00-BR
MONTGOMERY COUNTY