

SUMMARY OF QUANTITIES

MUSKINGUM COUNTY
MUS-156-2.85

(SCHEDULE A & B) PAVEMENT CALCULATIONS

Station to Station	Description-Cal.-etc.	ITEM T-35 1 1/4"	ITEM T-35 2"	ITEM B-219 3"	ITEM B-19 4"	ITEM I-22 3"	ITEM I-22 12"	ITEM I-9	ITEM I-18	ITEM T-30 0.35 gal.
150+00-150+50	FLARE (18+20) x 50 x 1/8 (18+20) x 50 x 1/8 (20+22) x 50 x 1/8 11 x 50/50	105.56		105.56		111.11		116.67	11.0	
150+50-152+00	20 x 150 x 1/8 21 x 150 x 1/8 22 x 150 x 1/8 11 x 150/50	333.33		333.33	350.00		366.67	33.0		
152+50-168+12.69	20 x 1562.69 x 1/8 21 x 1562.69 x 1/8 22 x 1562.69 x 1/8 11 x 1562.69/50	3,472.64		3,472.64	3,646.28		3,819.91	343.8		
168+12.69-170+23.31	Bridge & Approach Slabs									
170+23.31-186+42.53	20 x 1619.22 x 1/8 21 x 1619.22 x 1/8 22 x 1619.22 x 1/8 11 x 1619.22/50 650 x 4 x 0.5 x 1/27 1042.53 x 4 x 0.5 x 1/27	3,598.27		3,598.27	3,778.18	3,958.09		356.2	48.15 77.22	
186+42.53-190+42.53	WIDENING (TAPER) (30+22) x 400 x 1/8 (42+23) x 400 x 1/8 (42+24) x 400 x 1/8 11 x 400/50 382.47 x 4 x 0.5 x 1/27	933.33		933.33	977.78	1,022.22		88.0	28.33	
190+42.53-208+50	22 x 1807.47 x 1/8 23 x 1807.47 x 1/8 24 x 1807.47 x 1/8 11 x 1807.47/50 725 x 4 x 0.5 x 1/27 22 x 71.47 x 1/8 23 x 71.47 x 1/8 24 x 71.47 x 1/8 11 x 71.47/50	4,418.26		4,418.26	4,619.09	4819.92		397.6	53.70	
208+50-209+21.47	22 x 71.47 x 1/8 23 x 71.47 x 1/8 24 x 71.47 x 1/8 11 x 71.47/50	174.70		174.70	182.65		190.59	15.7		
209+21.47-210+41.47	WIDENING (TAPER) (22+20) x 120 x 1/8 (23+21) x 120 x 1/8 (24+22) x 120 x 1/8 11 x 120/50	280.00		280.00	293.33		306.67	26.4		
210+41.47-210+81.47	Feather Area and Approach Carried from Sheet #38	406.77		301.77	312.61	323.06			312.61	
201+50	Connection, Sheet #39	13,722.86		13,617.86	14,271.03	13,943.20	980.60	1271.70	254.0	14,271.03
TOTALS	Conversion to Cu.Yds. etc.	476.49		1,134.82	1,583.67	1,161.93	326.87		4,994.86	
	Carried From Sheet #17		4.01				9.08		114.02	
TOTALS		480.50 Cu.Yds.		1,134.82 CY	1,583.67 CY	1,497.88 CY	1271.70 LF		575.42 CY	4,994.86 Gal.

DIVISION OF PAVEMENT QUANTITIES

Station to Station	Description-Cal.-etc.	ITEM T-35 1 1/4"	ITEM T-35 2"	ITEM B-219 3"	ITEM B-19 4"	ITEM I-22 3"	ITEM I-22 12"	ITEM I-9	ITEM I-18	ITEM T-30 0.35 gal.
150+00-150+50	FLARE (18+20) x 50 x 1/8 18 x 50 x 1/8 19 x 50 x 1/8 20 x 50 x 1/8	100.00		100.00		105.55				105.55
150+50-186+42.53	18/20 x 7404.24 18/20 x 7774.46 18/20 x 7778.00 18/20 x 366.67 WIDENING (TAPER) 18' x 400 x 1/8 19' x 400 x 1/8 20' x 400 x 1/8	6663.82		6663.82	6,997.01	7000.20	330.00	48	28.33	844.44
186+42.53-190+42.53	WIDENING (TAPER) 18' x 400 x 1/8 19' x 400 x 1/8 20' x 400 x 1/8	800.00		800.00	844.44	888.89		225.4	53.70	3,928.70
190+42.53-209+21.47	18/22 x 4592.96 18/22 x 4801.74 18/22 x 4819.92 18/22 x 190.59 WIDENING (TAPER) 18 x 120 x 1/8 19 x 120 x 1/8 20 x 120 x 1/8	3,757.88		3,757.88	3,928.70	3,943.57	155.94	14.4		253.33
209+21.47-210+41.47	WIDENING (TAPER) 18 x 120 x 1/8 19 x 120 x 1/8 20 x 120 x 1/8	240.00		240.00	253.33	266.67				305.67
210+41.47-210+81.47	Feather Area 157+97.25 201+50 Connection Sheet #39	80.00		297.33	305.67	313.89			254.00	12,434.70
TOTALS	Conversion to Cu.Yds. etc. Carried from Sheet #17	11,964.03	415.42	11,859.03	12,434.70	12,146.55	863.72	693.60	461.40	4,352.15
TOTALS		419.43 C.Y.		988.25 CY	1,381.63 CY	1,309.20 C.Y.	693.60 LF		575.42 CY	4,352.15 Gal.
150+00-150+50	FLARE (22+20) x 50 x 1/8	5.56		5.56	5.56	5.56				5.56
150+50-186+42.53	18/20 x 7404.24 18/20 x 7774.46 18/20 x 7778.00 18/20 x 366.67 WIDENING (TAPER) (22+20) x 120 x 1/8 (23+21) x 120 x 1/8	740.42		740.42	777.45	777.80	36.67	40.0		777.45
186+42.53-190+42.53	WIDENING (TAPER) (22+20) x 120 x 1/8 (23+21) x 120 x 1/8	133.33		133.33	133.33	133.33		187.9		133.33
190+42.53-209+21.47	4/22 x 4592.96 4/22 x 4801.74 4/22 x 4819.92 4/22 x 190.59 WIDENING (TAPER) (2' x 1/2) 120 x 1/8 Feather Area	635.08		635.08	873.04	876.35	34.65	12.0		40.00
209+21.47-210+41.47	WIDENING (TAPER) (2' x 1/2) 120 x 1/8	40.00		40.00	40.00	9.17				6.94
210+41.47-210+81.47	Feather Area	4.44		4.44	6.94					6.94
TOTALS	Conversion to Cu.Yds. etc.	1758.83	61.07	1,758.83	1,836.32	1,796.65	116.88	578.10		1836.32
TOTALS		61.07 C.Y.		146.57 CY	204.04 CY	149.72	38.96			642.71
TOTALS				146.57 CY	204.04 CY	188.68 C.Y.	578.10			642.71 Gal.

ITEM E-11 WATER

See Sheet No.	For Item	Calculations	E-11 Water
		(SCHEDULE A) PARTICIPATION BY THE UNITED STATES OF AMERICA	M. Gals.
16	B-19	1381.63 @ 5 Gal. per Cu. Yd.	6.91
16	I-18	575.42 @ 8 Gal. per Cu. Yd.	4.60
16	I-22	1309.20 @ 8 Gal. per Cu. Yd.	10.47
	E-1	74,030 @ 5 Gal. per Cu. Yd.	370.15
		Sub total	392.13
		(SCHEDULE B) PARTICIPATION BY THE STATE OF OHIO	
	B-19	204.04 @ 5 Gal. per Cu. Yd.	1.02
	I-22	188.68 @ 8 Gal. per Cu. Yd.	1.51
	E-1	8,946 @ 5 Gal. per Cu. Yd.	44.73
		Sub total	47.26
		TOTAL (SCHEDULE A & B)	439.39

(SCHEDULE A) MAINTAINING TRAFFIC

Station To Station	Length	Width	T-10 Traffic Compacted Surface Course Applied @ rate of 68 Cu.Yds. per 100' of Temporary Roadway	Special Calcium Chloride applied @ rate of 1 Ton for each 50 cu.yds. of T10 Aggregate
150+00-156+50 Rt. E	650	18	442.0	8.84
203+50-210+81.47 Rt. E	731.47	18	497.4	9.95
201+50-210+81.47 on E	931.47	18	633.4	12.67
TOTALS	2312.94		1,572.8	31.46

ITEM E-1 COMPACTED SUBGRADE

Number of Square Yards of T-35 Surface Supported	
(SCHEDULE A) PARTICIPATION BY THE UNITED STATES OF AMERICA	11,964.03 Sq.Yds.
(SCHEDULE B) PARTICIPATION BY THE STATE OF OHIO	1,758.83 Sq.Yds.
TOTAL (SCHEDULE A & B)	13,722.86 Sq.Yds.

REVISION	DATE	DESCRIPTION	BY
U. S. ARMY ENGINEER DISTRICT, HUNTINGTON CORPS OF ENGINEERS HUNTINGTON, W. VA.			
DRAWN BY: E.E.D.	LICKING RIVER DILLON RESERVOIR PROJECT RELOCATION OF OHIO STATE ROUTE NO.156 (Section 3 & 4)		
TRACED BY: J.C.E.			
CHECKED BY: B.W.			
SUBMITTED BY: Edm. S. Barrett			
ELMER S. BARRETT ASSOCIATES			
RECOMMENDED: James H. Barrett	APPROVED: [Signature]	DATE: JULY 1959	
CHIEF ENG. DIV.	COL. C.E., DISTRICT ENGINEER		
ELMER S. BARRETT ASSOCIATES CONSULTING ENGINEERS CHILLICOTHE, OHIO		SCALE:	SPEC. NO.
		DRAWING NUMBER	
		027 F-UD 6-68/16	
		SHEET 16 OF 62	