

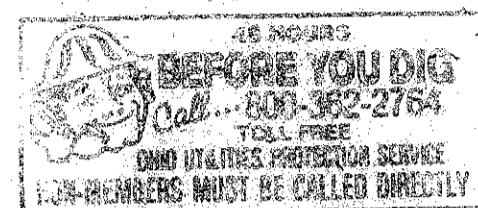
MICROFILMED  
 OCT 26 1981

GENERAL NOTES

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS  
 The rounded corners shown on the typical sections apply to all cross sections even though otherwise shown on these plans.

UNDERGROUND UTILITIES

The locations of the underground utilities shown on the plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but the STATE of OHIO does not guarantee their accuracy or completeness.



CONTRACTION JOINTS IN PAVEMENT WIDENING

Where new reinforced concrete pavement is placed adjacent to existing concrete pavement, contraction joints shall be provided in the new pavement so as to form a continuous joint with that in the existing pavement.

If the distance between the existing joints is greater than 40', additional contraction joints of a maximum spacing of 40' shall be placed in the new pavement.

ITEMS AND QUANTITIES SHOWN ARE BASED ON THE ASSUMPTIONS SET FORTH IN THE GENERAL NOTES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL QUANTITIES AND FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.

CALCULATIONS

Item 310-Subbase, Type II  
 Sta. 21+00 To Sta. 21+50  
 $\frac{2.25 \times 8.25 (1.5) (50)}{2} \div 27 = 4.9 \text{ C.Y.}$   
 7.75 (10") (50')  $\div 27 = 12 \text{ C.Y.}$   
 Sta. 21+50 To Sta. 23+08.50  
 $8.25 (15) (158.5) \div 27 = 24.2 \text{ C.Y.}$   
 $7.75 (10") (158.5) \div 27 = 37.9 \text{ C.Y.}$   
 Sta. 23+08.5 To Sta. 13+23 $\frac{1}{2}$  (S.R. 84)  
 $\frac{8.25 \times 2.25 (1.5) (69.11)}{2} \div 27 = 6.7 \text{ C.Y.}$   
 7.75 (5) (56)  $\div 27 = 8 \text{ C.Y.}$   
 Total Subbase Type II = **93.7 C.Y.**

Item 402-Asphalt Concrete  
 Sta. 21+00 To 21+50  
 $\frac{4 \times 10 (50)}{2} \div 9 = 38.9 \text{ S.Y.}$   
 Sta. 21+50 To Sta. 23+08.50  
 $10 (158.5) \div 9 = 176.1 \text{ S.Y.}$   
 Sta. 23+08.50 To Sta. 13+23 $\frac{1}{2}$  (S.R. 84)  
 $\frac{10 \times 4 (69.11)}{2} \div 9 = 53.8 \text{ S.Y.}$   
 268.8 S.Y. (1.75")  $\div 36 = 13.1 \text{ C.Y.}$   
Item 404-Asphalt Concrete  
 268.8 S.Y. (1.25")  $\div 36 = 9.3 \text{ C.Y.}$

Item 407-Tack Coat  
 268.8 S.Y. (1.0) = 26.9 Gal.  
Item 407-Cover Aggregate  
 268.8 S.Y. (7)  $\div 2000 = 0.94 \text{ Tons}$

Item 203-Subgrade Compaction  
 Sta. 21+00 To Sta. 21+50  
 $\frac{9.5 \times 17.5 (50)}{9} = 75 \text{ S.Y.}$   
 Sta. 21+50 To Sta. 23+08.50  
 $\frac{17.5 (158.5)}{9} = 308.25 \text{ S.Y.}$   
 Sta. 23+08.5 To Sta. 13+23 $\frac{1}{2}$  (S.R. 84)  
 $\frac{17.5 \times 55 (62.83)}{9} = 80.3 \text{ S.Y.}$   
 Total Subgrade Compaction = **463.5 S.Y.**

Item 202 Wearing Course Removed  
 Sta. 21+00 To Sta. 23+08.50  
 $208.5 (2) \div 9 = 46.3 \text{ S.Y.}$   
 Sta. 23+08.5 To Sta. 13+23 $\frac{1}{2}$  (S.R. 84)  
 $(62.83 \times 8) (2) \div 9 = 15.7 \text{ S.Y.}$   
 Total Wearing Course Removed = **62 S.Y.**

Item 801-9" Portland Cement Concrete Base  
 Sta. 21+00 To Sta. 21+50  
 $\frac{0 \times 8.25 (50)}{2} \div 9 = 22.9 \text{ S.Y.}$   
 $\frac{(5) (12.12) (2)}{2} \div 9 = 1.3 \text{ S.Y.}$   
 Sta. 21+50 To Sta. 23+08.50  
 $8.25 (158.5) \div 9 = 145.3 \text{ S.Y.}$   
 Sta. 23+08.50 To Sta. 13+23 $\frac{1}{2}$  (S.R. 84)  
 $\frac{0 \times 8.25 (69.11)}{2} \div 9 = 31.7 \text{ S.Y.}$   
 $\frac{(5) (14) (2)}{2} \div 9 = 1.6 \text{ S.Y.}$   
 Total Portland Cement Concrete Base = **202.8 S.Y.**

Item 301-Bituminous Aggregate Base  
 Sta. 21+00 To Sta. 23+08.50  
 $8' (25) 208.5 \div 27 = 15.4 \text{ C.Y.}$   
 $7.75 (25) 208.5 \div 27 = 15.0 \text{ C.Y.}$   
 Sta. 23+08.50 To Sta. 13+23 $\frac{1}{2}$  (S.R. 84)  
 $\frac{8 \times 2 (25) (56)}{2} \div 27 = 2.6 \text{ C.Y.}$   
 $\frac{7.75 \times 1.75 (25) (56)}{2} \div 27 = 2.5 \text{ C.Y.}$   
 TOTAL BITUMINOUS AGGREGATE BASE = **35.5 C.Y.**

Item 409-Seal Coat Bituminous Material  
 Sta. 21+00 To Sta. 23+08.50  
 $8' (208.5) \div 9 = 185.3 \text{ S.Y. (1 gal)} = 55.6 \text{ gal}$   
 Sta. 23+08.50 To Sta. 13+23 $\frac{1}{2}$  (S.R. 84)  
 $\frac{8 \times 4 (56)}{2} \div 9 = 37.3 \text{ S.Y. (1.3 gal)} = 11.2 \text{ gal}$   
 Total Seal Coat Bituminous = **66.8 gal**  
Item 409-Seal Coat Cover Aggregate  
 Sta. 21+00 To Sta. 13+23 $\frac{1}{2}$  (S.R. 84)  
 222.6 S.Y. (0.005 C.Y./S.Y.) = **1.1 C.Y.**

Item 659-Commercial Fertilizer  
 $\frac{682 \text{ S.Y. (9.2\% N)} \times 20}{2000} = 0.6 \text{ Tons}$

Type Code Y-031 (unless otherwise noted)		GENERAL SUMMARY		
ITEM	SHEET No.	DESCRIPTION	UNIT	QUANTITY
ROADWAY				
202	3	GUARDRAIL REMOVED	LIN. FT.	25
202	3	DELINEATORS TYPE "C" POST MOUNTED REMOVED	EACH	5
202	3	ANCHOR ASSEMBLY TYPE "T" REMOVED	EACH	1
203	6	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION	CU. YDS.	126
203	6	EMBANKMENT	CU. YDS.	295
606	3	ANCHOR ASSEMBLY TYPE "T"	EACH	1
620	3	DELINEATORS TYPE "C" POST MOUNTED	EACH	5
203	2	SUBGRADE COMPACTION	SQ. YDS.	464
PAVEMENT				
202	2	WEARING COURSE REMOVED	SQ. YDS.	62
301	2	BITUMINOUS AGGREGATE BASE, AC 20, RT-11 or RT-12	CU. YDS.	36
310	2	SUBBASE TYPE II	CU. YDS.	94
402	2	ASPHALT CONCRETE AC-20	CU. YDS.	13
404	2	ASPHALT CONCRETE AC-20	CU. YDS.	9
407	2	TACK COAT, SS-I, SS-IH, MS-2 or RS-I, or RS-2, RC-250	GAL.	27
407	2	COVER AGGREGATE	TON	1
409	2	SEAL COAT BITUMINOUS MATERIAL, MC-800, or MC-3000, CBAE-800, RS-I, RS-2, CRS-2, or RT-9 or RT-10	GAL.	67
409	2	SEAL COAT COVER AGGREGATE NUMBER 8	CU. YDS.	1
801	2	9" PORTLAND CEMENT CONCRETE BASE	SQ. YDS.	203
EROSION CONTROL Y-005				
659	2	SEEDING AND MULCHING	SQ. YDS.	682
659	2	COMMERCIAL FERTILIZER	TONS	0.06
614		MAINTAINING TRAFFIC	LUMP	LUMP
624		MOBILIZATION	LUMP	LUMP
623		CONSTRUCTION LAYOUT STAKES	LUMP	LUMP
SIGNAL PLANS (FOR QUANTITIES SEE SHEET 5)				