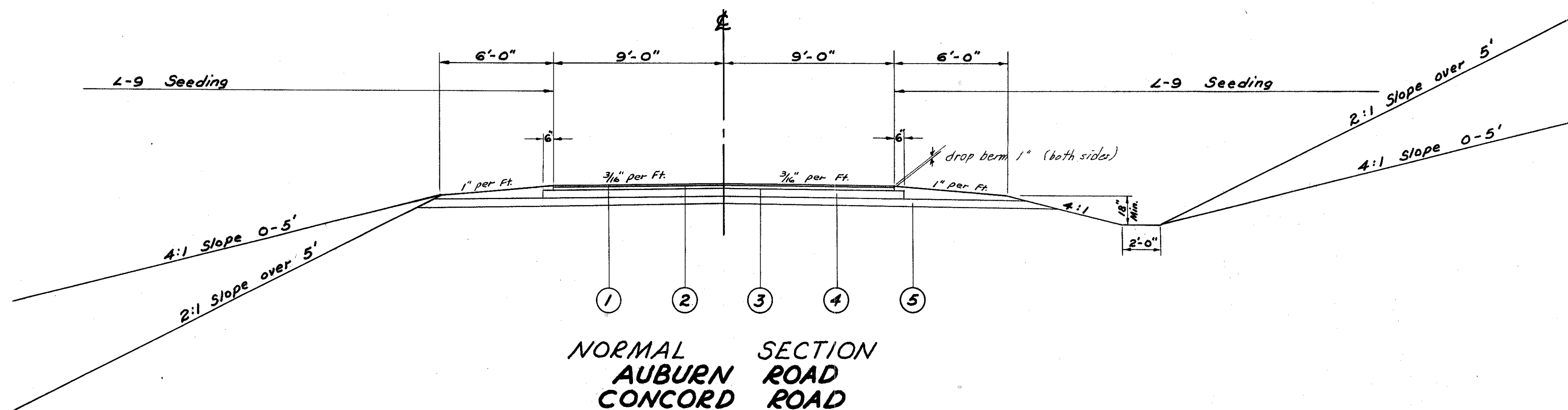


# TYPICAL SECTION

SCALE 1/4" = 1'-0"



NORMAL SECTION  
AUBURN ROAD  
CONCORD ROAD

≠ Thicknesses shown are "designed" thicknesses as described in Sections T-35.01 and B-35.01.

- ① ≠ T-35 1" Asphaltic Concrete Surface Course Type C (85-100)
- ② ≠ B-35 1 1/2" Asphaltic Concrete Leveling Course (85-100)
- ③ T-30 Bituminous Prime Coat (0.4 Gal. per Sq. Yd.)
- ④ B-19 5" Aggregate Base Course
- ⑤ I-22 4" Subbase

## GENERAL NOTES

### UTILITIES

The Contractor shall notify at least 48 hours before breaking ground all Public Service Corporations having wire, poles, pipe, conduits, manholes or other structures that may be affected by this operation including all structures which are affected and not shown on these plans. Any and all work required for public or private utilities will be done by and at the expense of their respective owners, unless otherwise noted on these plans.

### DRAINAGE of BASE MATERIAL

The Contractor shall finish, seed, and mulch the slopes so as not to impede drainage of the subbase material. The actual area of the outcrop of the subbase material shall not be seeded.

### EXISTING PAVEMENT REMOVAL

Removal and disposal of existing flexible pavement shall be included in bid Item E-1 Roadway Excavation.

### ITEM I-22 SUBBASE

The material furnished for this item shall meet the requirements of Grading "A" or "B" of Sec. I-22.02 except that for either grading, no more than 10 percent of the material shall pass a No. 200 sieve.

### ITEM L-9 SEEDING

Quantities for seeding are calculated for the soil areas between the work limits, as shown on the cross sections.

### REMOVAL of TREES AND STUMPS

All trees and stumps lying within the construction limits of this project shall be removed under lump sum price bid for Item E-9, Removal of Trees and Stumps.

The following is an approximate estimate of the number of trees and stumps to be removed:

Sizes	No Trees	No Stumps
12" to 18"	12	1
18" to 24"	1	1

The above estimate is approximate and the State of Ohio reserves the right to order the removal of additional trees or stumps within the right-of-way and/or easement lines. Payment for the removal of these additional trees or stumps shall be included in the lump sum price bid for Item E-9 Removal of Trees and Stumps.

### TRAFFIC

In the construction of this project, the Contractor may close to traffic Auburn Road and Concord Road at the limits of the work area, except as noted below.

In event of this closing, the County shall provide the detour.

Two-way traffic shall be maintained at all times, except that for a period not to exceed 45 consecutive calendar days, through traffic may be detoured.

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

2  
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LAKE COUNTY  
LAK-1-12.89  
PART - II

## PAVEMENT CALCULATIONS

Item	Description	Quantity
T-35	1" Asphaltic Concrete Surface Course - TYPE "C" (85-100)	
Sta. 104+00 to Sta. 107+70	$18 \times 370 \div 9 \times 1/36 =$	20.56 Cu. Yds.
Sta. 0+09 to Sta. 1+10	$18 \times 101 \div 9 \times 1/36 =$	5.61 Cu. Yds.
Extra Area (Intersection)	$850 \div 9 \times 1/36 =$	2.62 Cu. Yds.
Total		28.79 Cu. Yds.

Item	Description	Quantity
B-35	1 1/2" Asphaltic Concrete Leveling Course (85-100)	
Sta. 104+00 to Sta. 107+70	$18 \times 370 \div 9 \times 1 1/2 \times 1/36 =$	30.83 Cu. Yds.
Sta. 0+09 to Sta. 1+10	$18 \times 101 \div 9 \times 1 1/2 \times 1/36 =$	8.42 Cu. Yds.
Extra Area (Intersection)	$850 \div 9 \times 1 1/2 \times 1/36 =$	3.94 Cu. Yds.
Total		43.19 Cu. Yds.

Item	Description	Quantity
B-19	5" Aggregate Base Course	
Sta. 104+00 to Sta. 107+70	$19 \times 370 \div 9 \times 5 \times 1/36 =$	108.48 Cu. Yds.
Sta. 0+09 to Sta. 1+10	$19 \times 101 \div 9 \times 5 \times 1/36 =$	29.61 Cu. Yds.
Extra Area (Intersection)	$850 \div 9 \times 5 \times 1/36 =$	13.12 Cu. Yds.
Total		151.21 Cu. Yds.

Item	Description	Quantity
I-22	4" Subbase	
Sta. 104+00 to Sta. 107+70	$33.5 \times 370 \div 9 \times 4 \times 1/36 =$	153.02 Cu. Yds.
Sta. 0+09 to Sta. 1+10	$33.5 \times 101 \div 9 \times 4 \times 1/36 =$	41.77 Cu. Yds.
Extra Area (Intersection)	$750 \div 9 \times 4 \times 1/36 =$	9.26 Cu. Yds.
Total		204.05 Cu. Yds.

Item	Description	Quantity
T-30	Bituminous Prime Coat (0.4 Gal. per Sq. Yd.)	
Sta. 104+00 to Sta. 107+70	$19 \times 370 \div 9 \times 0.4 =$	312.44 Gals.
Sta. 0+09 to Sta. 1+10	$19 \times 101 \div 9 \times 0.4 =$	85.28 Gals.
Extra Area (Intersection)	$850 \div 9 \times 0.4 =$	37.78 Gals.
Total		435.50 Gals.

Item	Description	Quantity
L-9	Agricultural Liming Material (100 Lbs. per 1000 Sq. Ft.)	
Sta. 103+80 to Sta. 107+90	Seeding Table 3756 Sq. Yds.	
	$3756 \times 9 \div 1000 \times 100 \div 2000 =$	1.690 Tons
Sta. 0+50 to Sta. 1+10	Seeding Table 365 Sq. Yds.	
	$365 \times 9 \div 1000 \times 100 \div 2000 =$	0.164 Tons
Total		1.854 Tons

Item	Description	Quantity
L-9	Commercial Fertilizer (12-12-12 @ 20 Lbs. per 1000 Sq. Ft.)	
Sta. 103+80 to Sta. 107+90	Seeding Table 3756 Sq. Yds.	
	$3756 \times 9 \div 1000 \times 20 \div 2000 =$	0.338 Tons
Sta. 0+50 to Sta. 1+10	Seeding Table 365 Sq. Yds.	
	$365 \times 9 \div 1000 \times 20 \div 2000 =$	0.033 Tons
Total		0.371 Tons

Item	Description	Quantity
E-1	Compacted Subgrade	
Volume of T-35 Surface Course	28.79 Cu. Yds.	
	$28.79 \times 36 =$	1036 Sq. Yds.

Item	Description	Quantity
E-11	Water (5 Gal. per Cu. Yd.)	
B-19 5"	= 151 Cu. Yds.	
I-22 4"	= 205 Cu. Yds.	
E-1 Emb. = 99		
	$469 \times 5 \div 1000 =$	2.34 M Gals.

Item	Description	Quantity
E-1	Embankment (For Shoulders)	
Embankment Area	= 3 Sq. Ft. (one side only)	
Sta. 104+00 to Sta. 106+60.64	= $260.64 \times 2 =$	521.28 Lin. Ft.
Sta. 107+64.64 to Sta. 107+70	= $5.36 \times 2 =$	10.72 Lin. Ft.
Sta. 0+69 to Sta. 1+10	= $41 \times 2 =$	82.00 Lin. Ft.
Extra Length (Intersection)	=	270.00 Lin. Ft.
884 x 3 ÷ 27	=	98.22 Cu. Yds.
Total E-1 Emb.	=	99 Cu. Yds.

## GENERAL SUMMARY

ITEM	QUAN.	UNIT	DESCRIPTION
<b>ROADWAY</b>			
E-1	8736	Cu. Yds.	Roadway Excavation - Method "A"
E-1	99	Cu. Yds.	Embankment - Method "A"
E-1	1036	Sq. Yds.	Compacted Subgrade
E-9	Lump	Lump Sum	Removal of Trees and Stumps
E-11	3	M Gals.	Water
I-15	112	Lin. Ft.	Guard Rail Removed and Rebuilt
L-9	4127	Sq. Yds.	Seeding and Protecting
L-9	0.37	Tons	Commercial Fertilizer (12-12-12)
L-9	1.85	Tons	Agricultural Liming Material
<b>PAVEMENT</b>			
T-35	29	Cu. Yds.	Asphaltic Concrete Surface Course - Type "C" (85-100)
B-35	43	Cu. Yds.	Asphaltic Concrete Leveling Course - (85-100)
B-19	151	Cu. Yds.	Aggregate Base Course
I-22	204	Cu. Yds.	Subbase - Grading "A" or "B" as per Plan
T-30	436	Gals.	Bituminous Prime Coat Sec. M5.7, RT-2, or RT-3
<b>DRAINAGE</b>			
I-8	1	Each	Catch Basin Adjusted to Grade
I-10	20	Cu. Yds.	Dumped Rock Channel Protection
<b>WATER LINES (100% County Participation)</b>			
I-124	280	Lin. Ft.	10" Asbestos Cement Pressure Pipe, Class 150 Transite w/ Ringite couplings or approved equal, as per plan.
I-124	8	Each	10" Adaptors for Asbestos Cement Pressure Pipe, Class 150 Transite w/ Ringite couplings, or approved equal as per plan.
I-124	4	Each	10" Cast Iron Bends, 22 1/2", Class 150, Clow Catalogue No F-935, or approved equal as per plan.
I-124	1	Each	Valve Box, adjusted to grade.