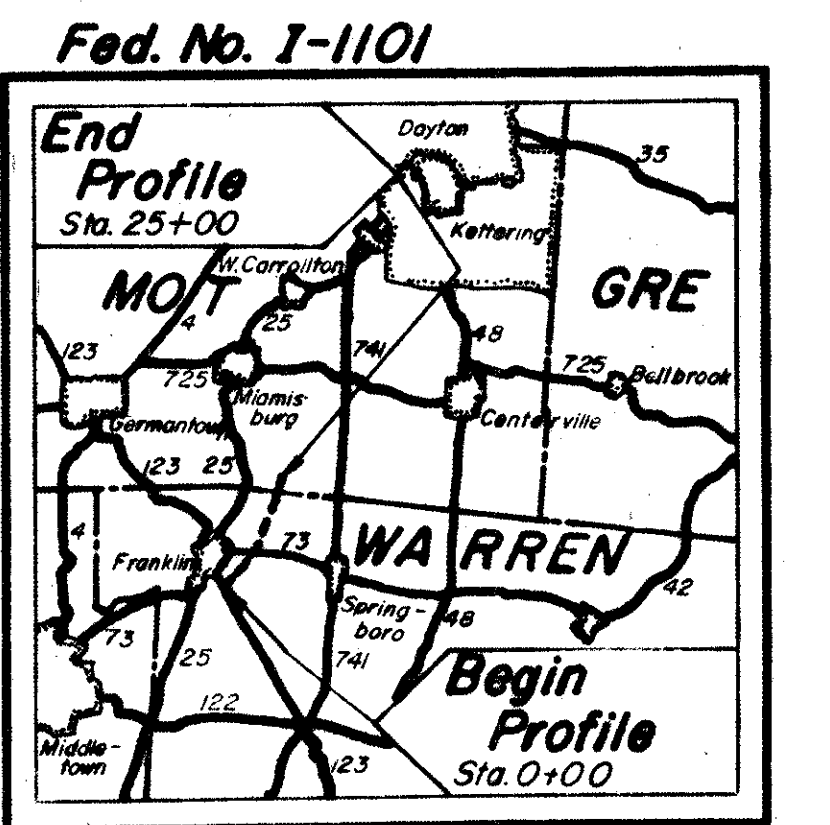


**SOIL PROFILE**  
**WARREN & MONTGOMERY COS**  
**WAR-25-8.48**  
**MOT-25-0.00**  
**STATE HIGHWAY TESTING AND RESEARCH LABORATORY**  
 O. S. U. CAMPUS, COLUMBUS, OHIO

NOTE: THE INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS SECURED FOR THE USE OF THE STATE OF OHIO AND IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING THE CONSTRUCTION OF THE PROJECT.



**LOCATION MAP**  
 Recon. - L.O.T. - 8/15/57  
 Drilling - Auger - C.A.C. - J.A.G. - B.E.B. - 8/29/57  
 Core - W.L.T. - 1/9/57  
 Drafting - D.M. - P.A.H. - G.W.T. - 9/17/57

**LEGEND FOR PROJECT - AVERAGE RESULTS OF TESTS - 183 SAMPLES TESTED**

DESCRIPTION	H. R. B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
Gravel	A-1-a(0)	A-1-a	65	17	8	7	3	NP	NP	9	6
Gravel with sand	A-1-b(0)	A-1-b	42	23	18	13	4	NP	NP	5	10
Coarse and fine sand	—	A-3a	7	23	46	19	5	NP	NP	5	3
Gravel or stone fragments with sand and silt	A-2-4(0)	A-2-4	43	14	14	20	9	22	6	19	4
Gravel with sand, silt, and clay	A-2-6(1)	A-2-6	40	16	11	13	20	32	14	8	1
Sandy silt	A-4(a)	A-4a	16	9	18	35	22	20	7	12	83
Silt	A-4(b)	A-4b	2	3	10	65	20	16	4	19	22
Silt and clay	A-6(a)	A-6a	9	3	8	38	42	31	13	18	35
Silty clay	A-6(b)	A-6b	5	3	9	39	44	37	17	19	13
Clay	A-7-6(4)	A-7-6	4	2	6	40	48	45	23	23	6

Overburden	Visual Classification	▨	Sod & Topsoil = X <sup>1</sup> / <sub>2</sub> approx. depth
Shale	Visual Classification	▩	Berm material

Auger boring plotted to vertical scale only.  This A-4a soil will be rubbery and unstable at water contents which exceed the optimum.

Auger boring - plan view.  Water content nearly equal to or greater than liquid limit.

Core boring - plan view.

Note: Figures beside borings indicate water contents in per cent.

Samples Taken  
 Lab. Nos. So. 55411  
 55432 - 55438 Incl.  
 55450 - 55454 Incl.  
 55456 - 55512 Incl.  
 55530 - 55537 Incl.  
 55507 - 55542 Incl.  
 5515 - 55175 Incl.  
 72189 - 72198 Incl.  
 72303 - 72304 Incl.  
 Moisture Density Samples  
 Lab. Nos. So. 55431 - 55438 Incl.

