

**PROJECT DESCRIPTION**

THIS HAN-75-14.39 PROJECT INVOLVES IMPROVEMENTS TO A SECTION OF INTERSTATE ROUTE 75 (IR-75) FROM 0.22 MILES NORTH OF C.R. 313/LIMA AVENUE TO 0.4 MILES SOUTH OF C.R. 99 WITH AN APPROXIMATE LENGTH OF 5.128 MILES AND TO A SECTION OF U.S. ROUTE 68 (US 68) FROM 0.56 MILES SOUTH OF C.R. 313/LIMA AVENUE TO IR-75 WITH AN APPROXIMATE LENGTH OF 1.0 MILE IN FINDLAY, HANCOCK COUNTY, OHIO. AS PART OF THESE IMPROVEMENTS, A SECTION OF IR-75 BETWEEN HARRISON STREET AND THE NORFOLK SOUTHERN RAILROAD BRIDGES WILL BE COMPLETELY REALIGNED, A THIRD LANE WILL BE ADDED ALONG IR-75 IN EACH NB AND SB DIRECTION EITHER ALONG THE MEDIAN OR OUTSIDE SHOULDER DEPENDING ON SPACE AVAILABILITY, EXISTING PAVEMENTS ALONG IR-75 WITHIN THE PROJECT LIMIT WILL BE REHABILITATED TO FULL DEPTH, SECTIONS OF ALL IR-75 RAMPS AT THE SR 12 AND US 224 INTERCHANGES WILL BE REALIGNED AND REHABILITATED TO FULL DEPTH OF PAVEMENT, AND EXISTING PAVEMENTS OF US 68 WILL BE WIDENED AND REHABILITATED TO FULL DEPTH.

ALSO THE INTERCHANGE AT IR-75/US 68 WILL BE COMPLETELY REDESIGNED TO INCLUDE THE REMOVAL OF THE EXISTING RAMPS AND REPLACEMENT WITH 10 NEW RAMPS; US 68 RAMP A, US 68 RAMP B, US 68 RAMP C, US 68 RAMP D, LIMA RAMP A, LIMA RAMP B, LIMA RAMP E, LIMA RAMP F, LIMA RAMP G, AND LIMA RAMP H, ASSOCIATED WITH REDESIGNING THE IR-75/US 68 INTERCHANGE, THE US 68/LIMA AVENUE INTERCHANGE WILL BE COMPLETELY REDESIGNED TO INCLUDE REALIGNMENT OF EXISTING LIMA AVENUE. SECTIONS OF EXISTING SIDE ROADS INCLUDING HARRISON STREET, LOGAN AVENUE, AND GRAY STREET WILL BE REHABILITATED AND A SERVICE ROAD WILL BE CONSTRUCTED NORTH OF THE INTERCHANGE OF US 68/LIMA AVENUE AND WEST OF LIMA AVENUE.

IN ADDITION, A TOTAL OF 8 BRIDGES; 5 REPLACEMENT AND 3 NEW, WILL BE DESIGNED AND CONSTRUCTED ASSOCIATED WITH THESE IMPROVEMENTS. FIVE REPLACEMENT BRIDGES INCLUDE IR-75 MAINLINE BRIDGE NO. HAN-75-1526 L & R OVER US 68 RAMP A, IR-75 MAINLINE BRIDGE NO. HAN-75-1540 L & R OVER NORFOLK SOUTHERN RAILROAD, IR-75 MAINLINE BRIDGE NO. HAN-75-1697 L & R OVER BLANCHARD RIVER, US 68 MAINLINE BRIDGE NO. HAN-68-1585 OVER LIMA AVENUE, AND HARRISON STREET BRIDGE NO. HAN-75-1477 OVER IR-75 AND NORFOLK SOUTHERN RAILROAD. THREE NEW BRIDGES WILL INCLUDE US 68 RAMP D, BRIDGE NO. HAN-68-1617 OVER LIMA AVE. RAMP H, US 68 RAMP C BRIDGE NO. HAN-68-1668 OVER US 68 RAMP A AND NORFOLK SOUTHERN RAILROAD, AND US 68 RAMP C BRIDGE NO. HAN-68-1656 OVER IR-75 AND US 68 RAMP B. ONE RETAINING WALL, 3 NOISE BARRIERS, AND 4 CULVERTS WILL ALSO BE DESIGNED AND CONSTRUCTED ASSOCIATED WITH THESE IMPROVEMENTS.

**HISTORIC RECORDS**

HISTORIC INFORMATION FROM THREE (3) GEOTECHNICAL EXPLORATIONS WAS OBTAINED FROM THE ODOT GEOTECHNICAL DOCUMENTS MANAGEMENT SYSTEM FTP SITE. A ROADWAY GEOTECHNICAL EXPLORATION WAS PERFORMED IN 1955 UNDER THE PROJECT DESIGNATION OF HAN-25-13.71 (HAN-25-12.99) FOR THE ORIGINAL CONSTRUCTION OF A SECTION OF IR-75 FROM 0.89 MILES SOUTH OF LIMA AVENUE (GR 313) TO 400 FEET NORTH OF CR 95 WITH A TOTAL PROJECT LENGTH OF 5.74 MILES. SOIL PROFILE SHEETS ARE AVAILABLE FOR THIS EXPLORATION. NOTE THAT MANY OF THE HISTORIC SOIL BORINGS PRESENTED ON THE SOIL PROFILE SHEETS REPRESENT THE ORIGINAL GRADE AND MOST OF WHICH IS EMBANKMENT FILL TO RAISE THE GRADE TO CURRENT IR-75 SUBGRADE. ALSO N-VALUES FROM SPT TESTS WERE NOT INCLUDED ON THE HISTORIC SOIL PROFILES. THEREFORE THESE ABOVE HISTORIC BORINGS ARE NOT INCLUDED IN THE CURRENT SOIL PROFILE SHEETS. A STRUCTURE FOUNDATION EXPLORATION WAS PERFORMED IN 2002 UNDER THE PROJECT DESIGNATION OF HAN-75-15.99 FOR THE WEST SANDUSKY STREET BRIDGE OVER IR-75. STRUCTURE FOUNDATION INVESTIGATION SHEETS ARE AVAILABLE FOR THIS EXPLORATION. SOIL INFORMATION OBTAINED FROM TEST BORING B-104-0-02 WHICH WAS OBTAINED ALONG THE IR-75 MEDIAN WILL BE INCLUDED IN THE CURRENT SOIL PROFILE SHEETS. A ROADWAY/STRUCTURE EXPLORATION WAS PERFORMED IN 2010 UNDER THE PROJECT DESIGNATION OF HAN-224-11.81 FOR US 224 INTERCHANGE IMPROVEMENTS. SOIL PROFILE SHEETS ARE AVAILABLE FOR THIS EXPLORATION AND SOIL INFORMATION OBTAINED FROM TEST BORINGS B-006-0-10, B-010-0-10 THROUGH B-013-0-10, B-015-0-10 THROUGH B-017-0-10, B-021-0-10 THROUGH B-023-0-10, AND B-025-0-10 THROUGH B029-0-10 WHICH WERE ADVANCED IN THE VICINITY OF THE US 224 INTERCHANGE ARE INCLUDED IN THE CURRENT SOIL PROFILE SHEETS.

ALSO HISTORICAL RECORDS OF GEOTECHNICAL EXPLORATIONS PERFORMED IN 1987 FOR IR-75 MAINLINE BRIDGE NO. HAN-75-1540 L & R OVER NORFOLK SOUTHERN RAILROAD AND IR-75 MAINLINE BRIDGE NO. HAN-75-1697 L & R OVER BLANCHARD RIVER AND IN 1960 FOR HARRISON ST BRIDGE NO. HAN-75-1477 WERE AVAILABLE. THESE RECORDS CONSIST OF STRUCTURE FOUNDATION INVESTIGATION SHEETS INCLUDING BORING LOGS IDENTIFIED AS B-1, B-2, AND B-4 (B-001-0-87, B-002-0-87, AND B-004-0-87) FOR IR-75 MAINLINE BRIDGE NO. HAN-75-1540 L & R, BORING LOGS IDENTIFIED AS B-1, B-2, B-3, AND B-4 (B-001-1-87, B-002-1-87, B-003-1-87, AND B-004-1-87) FOR IR-75 MAINLINE BRIDGE NO. HAN-75-1697 L & R, AND BORING LOGS IDENTIFIED AS B-4, B-9, AND B-15 (B-004-0-60, B-009-0-60, AND B-013-0-60) FOR HARRISON ST. BRIDGE NO. HAN-75-1477. SOIL/ROCK FOUNDATION EXPLORATION SHEETS OF THESE BRIDGES, ODOT CLASS LEGEND FOR HISTORIC SOIL INFORMATION WAS INCLUDED IN THE COVER SHEET.

**SPECIFICATIONS**

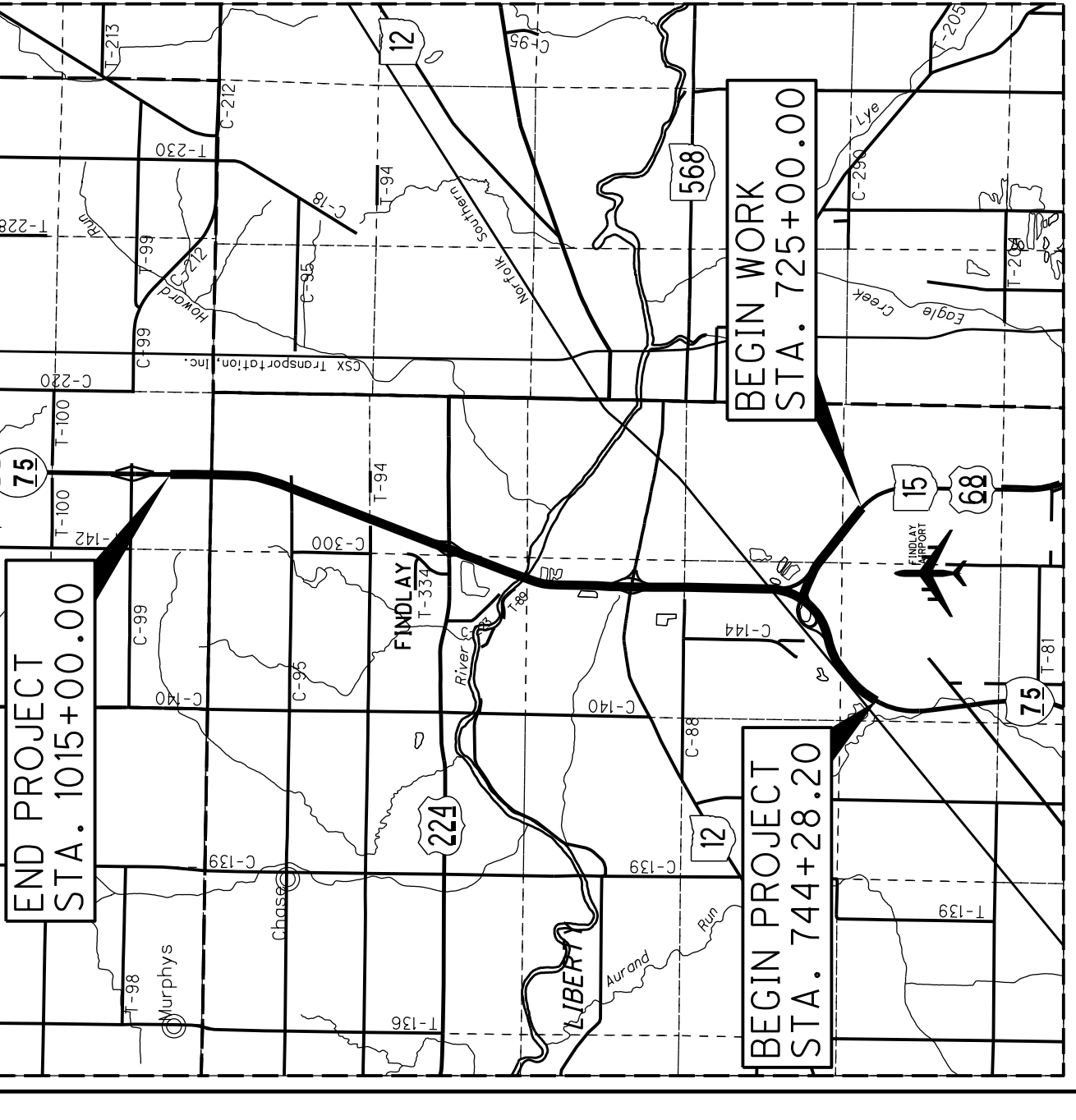
THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS, DATED JANUARY 2007 AND UPDATED JANUARY 20, 2012.

**AVAILABLE INFORMATION**

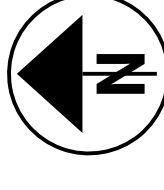
ALL AVAILABLE SOIL AND BEDROCK INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THE SOIL PROFILE SHEETS HAS BEEN SO REPORTED. ADDITIONAL SUBSURFACE EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1980 WEST BROAD STREET.

**LEGEND**

DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL
GRAVEL AND/OR STONE FRAGMENTS	A-1-a	2
GRAVEL AND/OR STONE FRAGMENTS WITH SAND	A-1-b	8
FINE SAND	A-3	0
COARSE AND FINE SAND	A-3-a	2
SANDY SILT	A-4-a	60
SILT	A-4-b	17
GRAVEL/STONE FRAGMENTS WITH SAND AND SILT	A-2-4	5
GRAVEL/STONE FRAGMENTS w/SAND, SILT AND CLAY	A-2-6	1
ELASTIC SILT AND CLAY	A-5	3
SILT AND CLAY	A-6-a	95
SILTY CLAY	A-6-b	88
ELASTIC CLAY	A-7-5	13
CLAY	A-7-6	59
TOTAL		353
DOLOMITE	VISUAL	843
PAVEMENT OR BASE = 1.3' = APPROXIMATE THICKNESS	VISUAL	
SOD AND TOPSOIL = 0.5' = APPROXIMATE THICKNESS	VISUAL	
BORING LOCATION - PLAN VIEW.		
HISTORIC BORING LOCATION - PLAN VIEW		
DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.		
INDICATES WATER CONTENT IN PERCENT.		
INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.		
NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT): X= NUMBER OF BLOWS FOR FIRST 6 INCHES. Y= NUMBER OF BLOWS FOR SECOND 6 INCHES. Z= NUMBER OF BLOWS FOR THIRD 6 INCHES.		
INDICATES FREE WATER ELEVATION.		
INDICATES A PLASTIC MATERIAL WITH A MOISTURE CONTENT EQUAL TO OR GREATER THAN THE LIQUID LIMIT MINUS 3.		
INDICATES A NON-PLASTIC MATERIAL WITH A MOISTURE CONTENT GREATER THAN 25 % OR GREATER THAN 19 % WITH A WET APPEARANCE.		
INDICATES A SAMPLE TAKEN WITHIN 3 FT OF PROPOSED GRADE.		
INDICATES A SPLIT SPOON SAMPLE.		
INDICATES A NON-PLASTIC SAMPLE.		
INDICATES A SHELBY TUBE SAMPLE.		
INDICATES THE TOP OF ROCK.		
AUGER SAMPLE		



LOCATION MAP  
SCALE IN MILES



SCALE IN MILES

**PARTICLE SIZE DEFINITIONS**

BOULDERS	COBBLES	GRAVEL	COARSE SAND	FINE SAND	SILT	CLAY
12"	3"	2.0 mm	0.42 mm	0.074 mm	0.005 mm	
		No. 10 SIEVE	No. 40 SIEVE	No. 200 SIEVE		

RECON. - WN/SS/FB/JUNE 2013  
 DRILLING - DLZ/B-M/OTB/JUNE THROUGH SEPTEMBER 2013  
 DRAWN - SS/FEBRUARY/MARCH/2014  
 REVIEWED - SS/FEBRUARY/MARCH/2014

**LEGEND**

HISTORIC BORING DESCRIPTIONS	ODOT CLASS	CLASSIFIED MECH./VISUAL
GRAVEL AND/OR STONE FRAGMENTS	A-1-a	2
GRAVEL AND/OR STONE FRAGMENTS WITH SAND	A-1-b	3
FINE SAND	A-3	0
COARSE AND FINE SAND	A-3-a	0
SANDY SILT	A-4-a	17
SILT	A-4-b	4
GRAVEL/STONE FRAGMENTS WITH SAND AND SILT	A-2-4	1
GRAVEL/STONE FRAGMENTS w/SAND, SILT AND CLAY	A-2-6	0
SILT AND CLAY	A-6-a	22
SILTY CLAY	A-6-b	13
CLAY	A-7-6	3
TOTAL		65
DOLOMITE	VISUAL	67

