THIS PROJECT, DESIGNATED AS FUL-120-14.08, PID NO. 101140, INCLUDES REPLACEMENT OF THE SR 120 BRIDGE (SFN 2601745) OVER TENMILE CREEK IN METAMORA, FULTON COUNTY, OHIO.

REVIEW OF ODOT RECORDS FOR THE PROJECT AREA INDICATED NUMEROUS HISTORIC AUGER AND DRIVE ROD STRUCTURAL BORINGS HAD BEEN PERFORMED FOR THE SR 120 BRIDGE OVER TENMILE CREEK IN 1954 FOR FUL-120 (14.06-14.08). TEN BORINGS WERE PERFORMED NEAR THE INTERSECTIONS PERTINENT TO THIS PROJECT. SINCE THE HISTORIC BORINGS WERE AUGER BORINGS OR DRIVE ROD BORINGS THAT DID NOT INCLUDE STANDARD PENETRATION TESTS, THEY WERE NOT UTILIZED FOR EVALUATIONS FOR THIS PROJECT AND ARE NOT SHOWN ON THE PLAN AND PROFILE SHEETS. HOWEVER, THE COVER SHEET, AS WELL AS THE PERTINENT PLAN-AND-PROFILE DRAWINGS FROM THE HISTORIC SOIL PROFILE, ARE INCLUDED IN APPENDIX C OF THE ASSOCIATED GEOTECHNICAL REPORT.

PUBLISHED GEOLOGIC MAPS FROM THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) INDICATE THAT THE PROJECT SITE IS LOCATED IN THE MAUMEE LAKE PLAINS PHYSIOGRAPHIC REGION OF THE HURON-ERIE LAKE PLAINS SECTION. WITHIN THIS REGION, THE GEOLOGIC DEPOSITS CONSIST OF PLEISTOCENE-AGE SILT, CLAY, AND WAVE-PLANED CLAYEY TILL OVERLYING SILURIAN-AGE CARBONATE AND SHALE REPROCK

THE USDA NATURAL RESOURCE CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY INDICATES THAT UPPER-PROFILE SOILS IN THE PROJECT AREA ARE PREDOMINANTLY MAPPED AS SLOAN SILTY CLAY LOAM (SO) AT THE BRIDGE, HASKINS LOAM (HKA) JUST PAST THE EXISTING AUTO BODY SHOP EAST OF THE BRIDGE, AND BIXLER LOAMY FINE SAND (BCA) WEST OF THE BRIDGE, THE SO SOILS CONSIST OF LOAMY ALLUVIUM FORMED ON DRAINAGEWAYS, BACKSWAMPS, AND FLATS ON FLOOD PLAINS. THE HKA SOILS CONSIST OF LACUSTRINE DEPOSITS FORMED ON LAKE AND TILL PLAINS. THE BCA SOILS CONSIST OF SANDY LACUSTRINE DEPOSITS FORMED ON RIDGES AND KNOLLS ON BEACH RIDGES, OUTWASH PLAINS, AND DELTAS. THE SO SOILS ARE CHARACTERIZED AS VERY POORLY DRAINED AND HAVE A MODERATELY HIGH TO HIGH PERMEABILITY. THE HKA SOILS ARE CHARACTERIZED AS SOMEWHAT POORLY DRAINED AND HAVE A LOW TO MODERATELY HIGH PERMEABILITY. THE BCA SOILS ARE CHARACTERIZED AS SOMEWHAT POORLY DRAINED AND HAVE A MODERATELY HIGH TO HIGH PERMEABILITY. THE BCA SOILS ARE CHARACTERIZED AS SOMEWHAT POORLY DRAINED AND HAVE A MODERATELY HIGH TO HIGH PERMEABILITY. MODERATELY HIGH TO HIGH PERMEABILITY.

THE ALLUVIAL DEPOSITS NEAR TENMILE CREEK ARE ASSOCIATED WITH THE HISTORIC DEPOSITION ASSOCIATED WITH THIS CREEK. THE LACUSTRINE SOILS CONSIST OF HISTORIC LAKE-LAID DEPOSITS, CONSISTING OF PREDOMINANTLY SILTS AND CLAYS, AND OFTEN EXHIBIT ALTERNATING THIN LAYERS OF INTERBEDDED SILTS AND CLAYS KNOWN AS VARVES. VARVED SOILS ARE CHARACTERISTIC OF LACUSTRINE DEPOSITS, AND THE THIN LAYERING IS TYPICALLY ATTRIBUTED TO SEASONAL OR OTHER CYCLIC VARIATIONS OF SEDIMENTATION IN THE LAKE WATERS. IN ADDITION, THIN SAND SEAMS AND PARTINGS MAY BE ENCOUNTERED.

THE GLACIAL TILL, ALSO REFERRED TO AS MORAINE, WAS DEPOSITED BY THE ADVANCE AND RETREAT OF GLACIAL ICE. DUE TO THE WEIGHT OF THE ICE MASS, THE TILL DEPOSITS ARE MODERATELY TO HIGHLY OVER-CONSOLIDATED, THAT IS, THE EXISTING SOIL DEPOSITS HAVE EXPERIENCED A PREVIOUS VERTICAL STRESS SIGNIFICANTLY HIGHER THAN THE PRESENT EFFECTIVE VERTICAL STRESS DUE TO THE REMAINING OVERLYING SOIL STRATA IN THE PROFILE. THE TILL MAY CONTAIN COBBLES AND/OR BOULDERS LEFT IN THE TILL SOIL MATRIX. ADDITIONALLY, SEAMS OF GRANULAR SOILS MAY ALSO BE ENCOUNTERED WITHIN GLACIAL TILLS.

BEDROCK IN THE PROJECT AREA IS BROADLY MAPPED ON THE "GEOLOGIC MAP OF OHIO" AS DEVONIAN-AGE OLENTANGY AND OHIO SHALES. BEDROCK AT THE SITE IS MAPPED AT ELEV. 620±, CORRESPONDING TO DEPTHS ON THE ORDER OF APPROXIMATELY 100 FEET BELOW EXISTING GRADES. A LOG FOR A NEARBY WATER WELL INDICATED SHALE BEDROCK WAS ENCOUNTERED AT A DEPTH OF APPROXIMATELY 135 FEFT BELOW GRADE APPROXIMATELY 135 FEET BELOW GRADE.

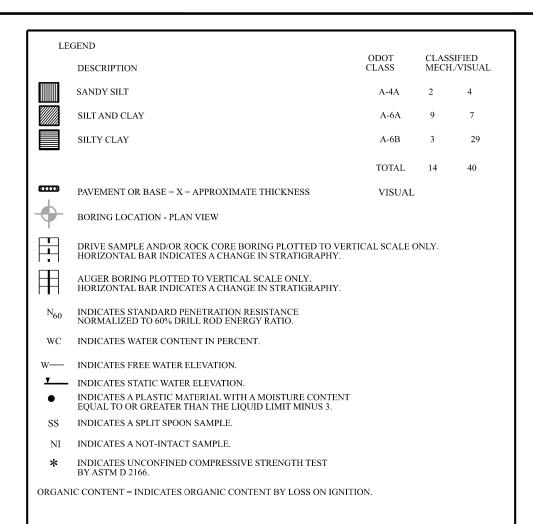
RECONNAISSANCE

TTL PERFORMED A SITE RECONNAISSANCE ON OCTOBER 1, 2020. THE PROJECT AREA CONSISTED PREDOMINANTLY OF SMALL BUSINESSES WITH A CHURCH JUST WEST OF THE BRIDGE. THE PAVEMENTS WERE IN GENERALLY FAIR TO POOR CONDITION WITH FREQUENT LONGITUDINAL AND TRANSVERSE CRACKING. THE CRACKS WERE GENERALLY SEALED. THE CONCRETE SIDEWALKS ON EITHER SIDE OF THE BRIDGE WERE IN GENERALLY GOOD TO FAIR CONDITION WITH LITTLE TO NO DISTRESS.

SPALLING CONCRETE AND LARGE CRACKS WERE OBSERVED ALONG PORTIONS OF THE HEADWALLS, AND CONNECTED RETAINING WALL. THE BRIDGE GIRDERS GENERALLY HAD MINOR RUST. A PIPE EXTENDS THROUGH THE WESTERN HEADWALL, SOUTH OF THE BRIDGE. SEVERAL PIPES ARE PRESENT DISCHARGING INTO THE CREEK TROUGH THE HEADWALLS AND RETAINING WALL. A PVC PIPE AND A CONCRETE PIPE DISCHARGING TO THE CREEK WERE PRESENT AT THE GROUND SURFACE/TOP OF EAST HEADWALL, SOUTH OF THE BRIDGE. THIS WALL INCLUDED A TURNBACK BEYOND A STEEL I-BEAM THAT HAD BEEN INSTALLED POSSIBLY FOR REINFORCEMENT LATER IN THE LIFE OF THE WALL, IN ANY CASE, THE PORTION OF THE WALL BEYOND THE TURNBACK INCLUDED TILTING AND SPALLING.

THE RETAINING WALL APPEARED TO HAVE A SMALL WINDOW PLACED IN IT APPROXIMATELY 6 TO 12 INCHES BELOW THE TOP OF THE WALL UNDER THE BRICK PORTION OF THE EXISTING AUTO BODY SHOP. AT THE TIME OF OUR RECONNAISSANCE, WATER WAS FLOWING AT THE WALL/CREEK BANK INTERFACE OR BELOW. WEEP HOLES WERE OBSERVED IN THE HEADWALLS.

AT THE TIME OF OUR RECONNAISSANCE, THE TENMILE CREEK BOTTOM WAS APPROXIMATELY 13 FEET AND 14 FEET BELOW ROADWAY GRADES SOUTH AND NORTH OF THE BRIDGE, RESPECTIVELY (ELEVS, 706± AND 705±, RESPECTIVELY). THE WATER LEVEL IN THE CREEK WAS APPROXIMATELY 2 INCHES AND 12 INCHES ABOVE CREEK BOTTOM SOUTH AND NORTH OF THE BRIDGE, RESPECTIVELY (ELEV. 706±).



SUBSURFACE EXPLORATION

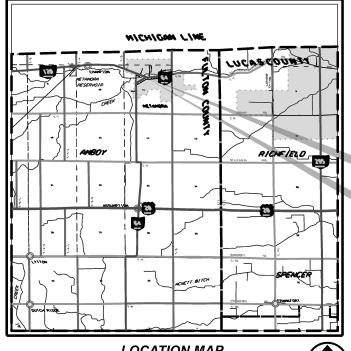
THIS EXPLORATION INCLUDED THREE TEST BORINGS, DESIGNATED AS B-001-0-20, B-002-0-20 (AND OFFSET BORING B-002-1-20), AND B-004-0-20. ADDITIONALLY, AN AUGER PROBE BORING WAS PERFORMED, DESIGNATED AS X-003-0-20 (ALONG WITH OFFSET AUGER PROBE BORING X-003-1-20) THE BORINGS WERE PERFORMED BY TTL DURING OCTOBER 7 THROUGH 9, 2020. THE BORINGS HAVE BEEN IDENTIFIED IN ACCORDANCE WITH ODOT PROTOCOL, BUT THE "-0-20" OR "-20" PORTION OF THE NOMENCLATURE IS GENERALLY OMITTED FORM THE DISCUSSION HEREIN. BORING B-002-0 WAS TERMINATED DUE TO ENCOUNTERED REBAR IN CONCRETE UNDERLYING THE ASPHALT SURFACE COURSE. AN OFFSET BORING (B-002-1) WAS ADVANCED FURTHER FROM THE BRIDGE SO AS TO AVOID THE APPARENT APPROACH SLAB. AUGER BORING X-003-0 WAS INTENDED TO ENCOUNTER THE FOOTING OF AN EXISTING RETAINING WALL SO IT COULD BE CORED TO DETERMINE THE FOOTING THICKNESS. BORING X-003-0 WAS TERMINATED DATER IT WAS EXTENDED DEPER THAN THE INDICATED BEARING ELEVATION. AN OFFSET BORING (G-003-1) WAS MOVED CLOSER TO THE WALL BUT WAS ALSO TERMINATED AFTER BEING ADVANCED DEEPER THAN THE INDICATED BEARING ELEVATION. WITHOUT ENCOUNTERING THE RETAINING WALL FOOTING. THE BORINGS WERE LOCATED IN THE FIELD BY TTL BASED ON A DIRECTION PROVIDED FROM BERGMANN.

IN ACCORDANCE WITH THE ODOT SPECIFICATIONS FOR GEOTECHNICAL

IN ACCORDANCE WITH THE ODOT SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS (SGE), BORINGS B-001 AND B-002-1 WERE PERFORMED AS ODOT TYPE E1 BRIDGE BORINGS, EXTENDED TO ENCOUNTER A MINIMUM OF 30 CONSECUTIVE FEET OF 30 BLOWS PER FOOT (BPF) MATERIAL. THE UPPER PORTION OF EACH OF THESE BORINGS WAS PERFORMED AS ODOT TYPE A ROADWAY BORINGS TO FACILITATE PAVEMENT SUBGRADE EVALUATIONS. ADDITIONALLY, BORING B-002-1 WAS PERFORMED TO MEET ODOT TYPE E3C RETAINING WALL AND TYPE E6 BUILDING CRITERIA. BORING B-004 WAS ALSO PERFORMED AS AN ODOT TYPE E6 BUILDING BORING B-0010. ODOT TYPE E6 BUILDING BORING.

ODOT TYPE E6 BUILDING BORING.

THE TEST BORINGS PERFORMED DURING THIS EXPLORATION WERE DRILLED WITH AN ATV-MOUNTED DRILLING RIG FOR THE BRIDGE BORINGS AND WITH A TRUCK-MOUNTED DRILLING RIG FOR THE BUILDING AND EXISTING RETAINING WALL EXPLORATORY BORINGS. THE BORINGS WERE EXTENDED UTILIZING 3½-INCH INSIDE DIAMETER HOLLOW-STEM AUGERS. IN BORINGS B-001 AND B-002-1, SAMPLES WERE OBTAINED CONTINUOUSLY OVER 18-INCH SPLIT-SPOON (SS) SAMPLE DRIVES TO A DEPTH OF 7 FEET, AT 2½-FOOT INTERVALS TO A DEPTH OF 30 FEET, AND AT 5-FOOT INTERVALS THEREAFTER. ADDITIONALLY, IN BORING B-001, SAMPLES WERE OBTAINED CONTINUOUSLY OVER 18-INCH SS SAMPLE DRIVES FROM 11 TO 20 FEET TO INCLUDE SAMPLING FOR EVALUATION OF POTENTIAL SCOUR. IN BORING B-004, SAMPLES WERE OBTAINED AT 2½-FOOT INTERVALS TO A DEPTH OF 10 FEET, AND AT 5-FOOT INTERVALS THEREAFTER. BORINGS X-003-0 AND X-003-1 DID NOT INCLUDE SAMPLING, SPLIT-SPOON SOIL SAMPLES WERE OBTAINED BY THE STANDARD PENETRATION TEST METHOD (ASTM D 1586), THESE SAMPLES WERE SEALED IN JARS AND TRANSPORTED TO OUR LABORATORY FOR FURTHER CLASSIFICATION AND TESTING. THE HAMMER'ROD ENERGY RATIO FOR THE ATV-MOUNTED DRILL RIG (CME 550X) WAS 77.3 PERCENT, AND WAS CALIBRATED ON THE SAME DRILL RIG (CME 550X) WAS 77.3 PERCENT, AND WAS CALIBRATED ON THE SAME DATE.



BEGIN PROJECT STA. 742+64.91

> END PROJECT STA. 744+10.52

LOCATION MAP

LATITUDE: 41°42'43" LONGITUDE: 83°54'39"



ALL SAMPLES WERE VISUALLY CLASSIFIED IN ACCORDANCE WITH THE ODOT SOIL CLASSIFICATION SYSTEM. ALL RECOVERED SAMPLES OF THE SUBSOILS WERE ALSO TESTED IN OUR LABORATORY FOR MOISTURE CONTENT DETERMINATIONS BY THE LOSS-ON-IGNITION (LOI) METHOD (ASTM D 2974) WERE PERFORMED ON SELECTED SAMPLES. DRY DENSITY DETERMINATIONS AND UNCONFINED COMPRESSIVE STRENGTH TESTS BY THE CONSTANT RATE OF STRAIN METHOD (ASTM D 2166) WERE PERFORMED ON SELECTED SPLIT-SPOON SAMPLES. UNCONFINED COMPRESSIVE STRENGTH ESTIMATES WERE OBTAINED FOR THE REMAINING INTACT COHESIVE SPLIT-SPOON SAMPLES USING A CALIBRATED HAND PENETROMETER. CALIBRATED HAND PENETROMETER.

LABORATORY TESTING WAS PERFORMED IN ACCORDANCE WITH GB-1 "PLAN SUBGRADES" CRITERIA, INCLUDING MECHANICAL SOIL CLASSIFICATION CONSISTING OF AN ATTERBERG LIMITS TEST (ASTM D 4318) AND A PARTICLE SIZE ANALYSIS (ASTM D 422) FOR COHESIVE SOIL SAMPLES FOR AT LEAST TWO SAMPLES FROM BORINGS B-001 AND B-002-1 WITHIN 6 FEET OF THE PROPOSED SUBGRADE. COMPLETE CLASSIFICATION TESTING WAS ALSO PERFORMED FOR SELECTED SAMPLES DEFPER IN THE SUBSOIL PROFILE SAMPLES DEEPER IN THE SUBSOIL PROFILE

SULFATE CONTENT DETERMINATIONS (ODOT SUPPLEMENT 1122) WERE PERFORMED ON A SUBGRADE SAMPLE FROM BORINGS B-001 AND

THE BORINGS ENCOUNTERED SURFACE MATERIALS CONSISTING OF ASPHALT RANGING IN THICKNESS FROM 1 TO 7 INCHES. CONCRETE AND AGGREGATE BASE WERE ENCOUNTERED UNDERLYING THE ASPHALT IN SOME OF THE BORINGS WITH VARYING THICKNESSES. A DESCRIPTION OF THE SURFACE MATERIALS AND THEIR THICKNESSES ARE SUMMARIZED IN THE FOLLOWING TABLE.

| DE | SCRIPTION OF SU | RFACE MATERIALS | |
|------------------|---|--|---|
| BORING NUMBER | APPROXIMATE ASPHALT THICKNESS (INCHES) | APPROXIMATE CONCRETE THICKNESS (INCHES) | APPROXIMATE AGGREGATE THICKNESS (INCHES) |
| B-001-0-20 | 7 | 8 | 3 |
| B-002-0-20 | 2 | > 10 (NOTE 1) | - |
| B-002-1-20 | 6 | 3 | N.E. |
| X-003-0-20 | 1 (NOTE 2) | N.E. | 35 |
| X-003-1-20 | 1 (NOTE 2) | N.E. | 35 |
| B-004-0-20 | 4 | 8 | N.E. |

N.E. = NOT ENCOUNTERED

NOTES:

1) BORING B-002-0 WAS TERMINATED AT A DEPTH OF APPROXIMATELY

12 INCHES FROM THE TOP OF PAVEMENT IN THE REINFORCED
CONCRETE LAYER DUE TO ENCOUNTERED REBAR.

2) BORINGS X-003-0 AND X-003-1 WERE PERFORMED IN AN AREA OF
DELIPIDATED ASPHALT BETWEEN THE PARKING AREA AND A
GUARDRAIL AT THE TOP OF THE RETAINING WALL.

RECON CPI 10/01/20 DRILLING TB 10/07/20 THROUGH 10/09/20 DRAWN TRR 01/22 REVIEWED CPI 01/22

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UNDERLYING THE SURFACE MATERIALS, MEDIUM STIFF TO STIFF COHESIVE EXISTING FILL MATERIALS WERE ENCOUNTERED TO DEPTHS RANGING FROM 3.8 TO 8.8 FEET BELOW TOP OF PAVEMENT. THE FILL CONSISTED OF SANDY SILT, SILT AND CLAY, AS WELL AS SILTY CLAY. NON-SOIL MATERIALS OBSERVED IN THE FILL CONSISTED OF CRUSHED STONE, WOOD, AS WELL AS ASPHALT AND BRICK FRAGMENTS. ORGANIC CONTENTS OF APPROXIMATELY 10 TO 11 PERCENT WERE DETERMINED FOR TWO FILL SAMPLES CONTAINING WOOD [BORINGS B-001 (SS-4) AND B-004 (SS-1)].

BASED ON THE BORINGS COMPLETED FOR THIS EXPLORATION, THE SUBSURFACE PROFILE ENCOUNTERED UNDERLYING THE SURFACE AND FILL MATERIALS CAN BE GENERALLY CHARACTERIZED BY FIVE STRATA OF COHESIVE SOILS WITH VARYING STRENGTH AND MOISTURE CHARACTERISTICS.

STRATUM I CONSISTED OF PREDOMINANTLY SOFT TO MEDIUM STIFF COHESIVE SOILS ENCOUNTERED UNDERLYING THE FILL IN BORINGS B-001 AND B-002-1 TO DEPTHS OF 11 FEET AND 8½ FEET, RESPECTIVELY (ELEVS, 708± AND 710±, RESPECTIVELY). THE STRATUM I SOILS CONSISTED OF SILTY CLAY (ODOT A-6B) WITH LITTLE SAND AND TRACE GR AVEI

STRATUM II CONSISTED OF PREDOMINANTLY STIFF TO VERY STIFF COHESIVE SOILS ENCOUNTERED UNDERLYING THE FILL IN BORING B-004 AND STRATUM I IN BORING B-002-1. STRATUM II EXTENDED TO DEPTHS OF 11 FEET (ELEV. 708±) IN BORING B-002-1 AND 6 FEET (ELEV. 713±) IN BORING B-004. THESE COHESIVE SOILS CONSISTED OF SILT AND CLAY (A-6A) AS WELL AS SILTY CLAY (A-6B) WITH VARYING AMOUNTS OF SAND AND GRAVEL.

STRATUM III CONSISTED OF PREDOMINANTLY VERY STIFF TO HARD COHESIVE SOILS ENCOUNTERED UNDERLYING STRATUM I IN BORING B-001, AS WELL AS STRATUM II IN BORINGS B-002-1 AND B-004. STRATUM III EXTENDED TO BORING TERMINATION AT A DEPTH OF 20 FEET IN BORING B-004, AS WELL AS TO DEPTHS OF 49½ FEET (ELEV. 669±) IN BORING B-001 AND 38½ FEET (ELEV. 680±) IN BORING B-002-1. THESE COHESIVE SOILS CONSISTED OF SANDY SILT (A-4A), SILT AND CLAY (A-6A). AS WELL AS SILTY CLAY (A-6B). (A-6A), AS WELL AS SILTY CLAY (A-6B).

STRATUM IV CONSISTED OF PREDOMINANTLY HARD COHESIVE SOILS ENCOUNTERED UNDERLYING STRATUM II IN BORINGS B-001 AND B-002-1 TO DEPTHS OF 73 FEET AND 73½ FEET, RESPECTIVELY (ELEVS. 646± AND 645±, RESPECTIVELY). THESE COHESIVE SOILS CONSISTED OF SILT AND CLAY (A-6A) AS WELL AS SILTY CLAY (A-6B).

STRATUM V CONSISTED OF PREDOMINANTLY "VERY HARD" COHESIVE SOILS ENCOUNTERED UNDERLYING STRATUM IV IN BORINGS B-001 AND B-002-1 TO TERMINATION AT A DEPTH OF 80 FEET (ELEV. $639\pm$). THESE COHESIVE SOILS CONSISTED OF SANDY SILT (A-4A).

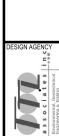
GROUNDWATER WAS INITIALLY ENCOUNTERED DURING DRILLING AND OBSERVED UPON COMPLETION OF DRILLING OPERATIONS IN ONLY BORING B-001 AT A DEPTH OF 79.5 FEET (ELEV. 639.5). IT SHOULD BE NOTED THAT EACH BORING WAS GENERALLY DRILLED AND BACKFILLED OR SEALED WITHIN THE SAME DAY. THEREFORE, STABILIZED AMBIENT WATER LEVELS WERE NOT OBSERVED OVER THIS LIMITED TIME PERIOD. INSTRUMENTATION WAS NOT INSTALLED FOR LONG-TERM GROUNDWATER BEADINGS. LONG-TERM GROUNDWATER READINGS.

FUL-120-14.08

THIS GEOTECHNICAL EXPLORATION WAS PERFORMED IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS (SGE), DATED JULY 2020.

AVAILABLE INFORMATION

THE SOIL, BEDROCK, AND GROUNDWATER INFORMATION COLLECTED FOR THIS SUBSURFACE EXPLORATION THAT CAN BE CONVENIENTLY DISPLAYED ON THE SOIL PROFILE SHEETS HAS BEEN PRESENTED. GEOTECHNICAL REPORTS, IF PREPARED, ARE AVAILABLE FOR REVIEW ON THE OFFICE OF CONTRACT SALES WEBSITE.

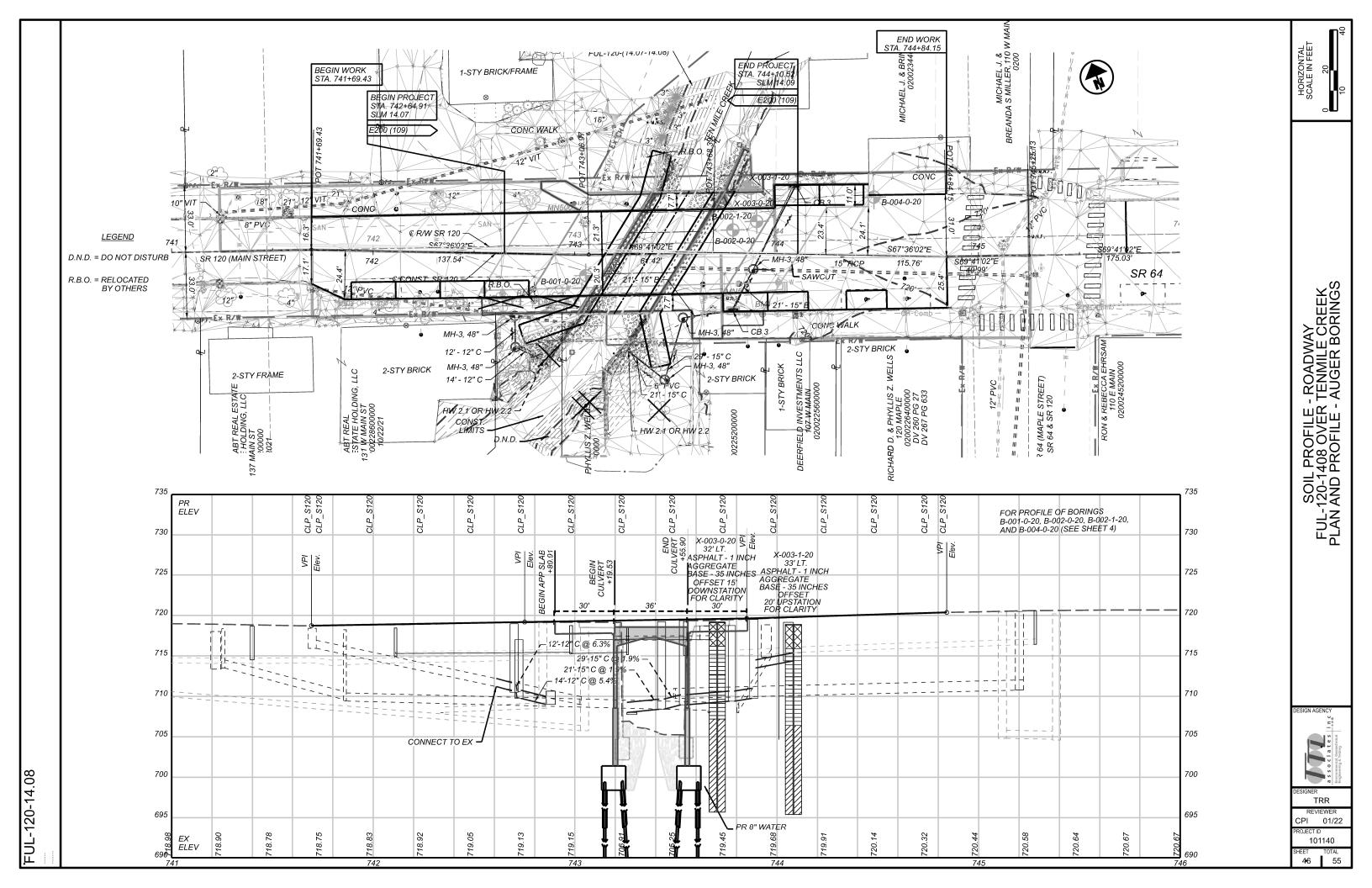


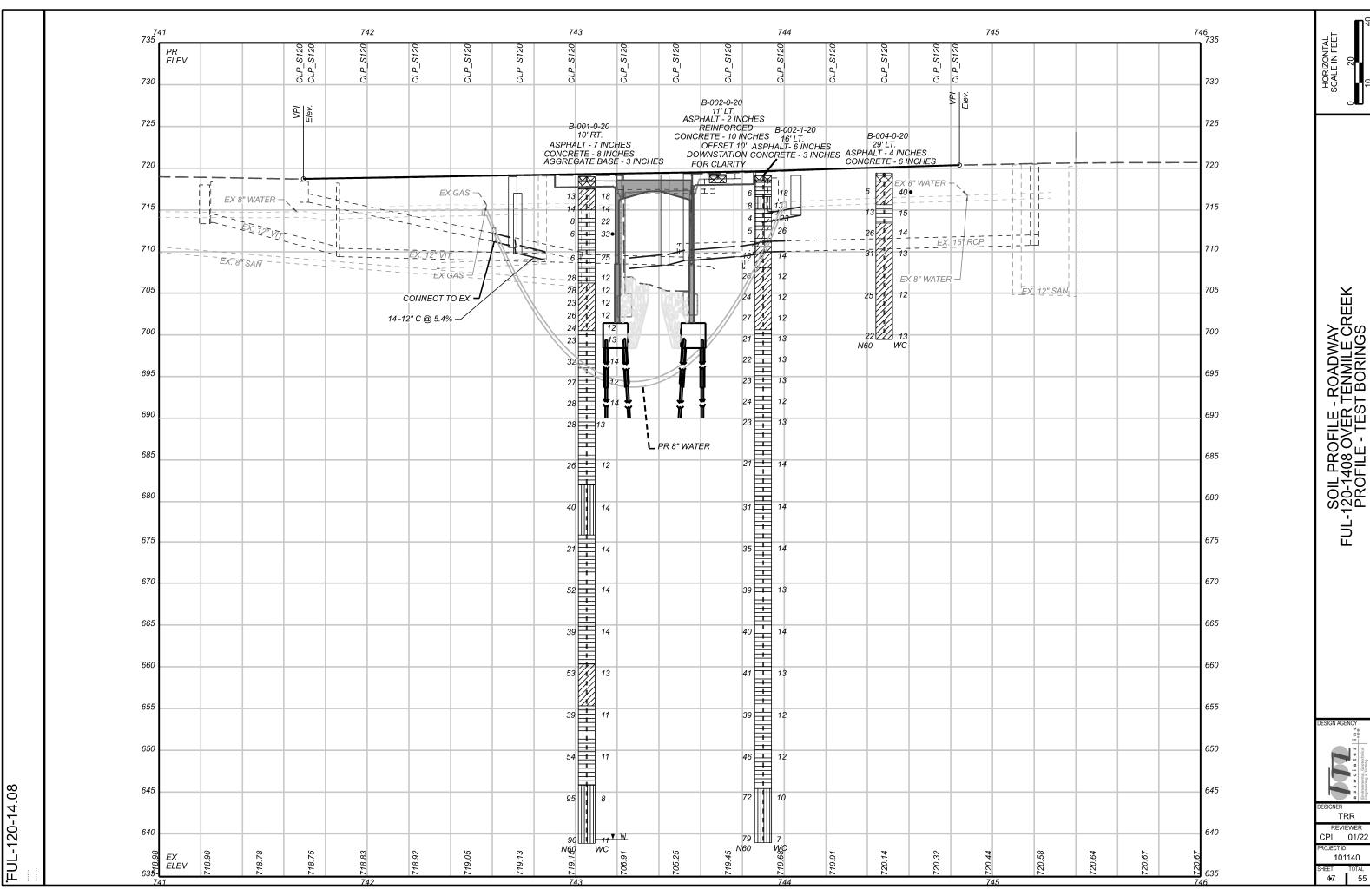
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SOIL PROFILE - ROADWAY FUL-120-1408 OVER TENMILE CREEK PROFILE - TEST BORINGS

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|------------------------------|---|--|-----------------------------------|--|---|--|--|---------------------------------|--------------------------------------|--|-------|---|---|----------|----------|---------------------|---|---|----------------|------|----------|-----|----------|--|----------|---|
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| EXPLORATION ID B-001-0-20 | | | SO4 ppm | | 2400 | 580 | | | | | | | 1 | | | | | | ı | | | | | | 1 | |
| <u>X</u> | | 3700 E | ODOT CLASS (GI) | | A-6a (10) | A-6a (5) | A-6b (V) | A-6b (V) | | A-6b (V) | | A-6b (V) | A-6a (V) | A-6a (8) | A-6a (8) | A-6a (7) | A-6b (V) | | A-6b (V) | | A-6b (V) | | A-6b (V) | | A-6b (V) | |
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| CME | HAMIMER: CME AUTOMATIC | CALIBRATION DATE: ENERGY RATIO (%): | SAMPLE ID | | SS-1 | SS-2 | SS-3 | SS-4 | | SS-5 | | 9-88 | SS-7 | 8-88 | 6-88 | SS-10 | SS-11 | | SS-12 | | SS-13 | | SS-14 | | SS-15 | |
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| DRILL RIG | HAMMER: | ENER E | , S | | 13 | 41 | ω | 9 | | 9 | | 28 | 28 | 23 | 26 | 24 | 23 | | 32 | | 27 | | 28 | | 28 | |
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| | 75 | 10/7/20 | MATERIAL DESCRIPTION AND NOTES | | | STIFF, BROWN, SILT AND CLAY , LITTLE SAND AND TRACE CRUSHED STONE, MOIST FILL @2.5: "AND" SAND, DAMP | MEDIUM STIFF, BROWN, SILTY CLAY , LITTLE SAND AND TRACE CRUSHED STONE, MOIST FILL | WET | (MODERATELT ORGANIC, ORGANIC CONTENT | MEDIUM STIFF, GRAY, SILTY CLAY , LITTLE SAND AND TRACE GRAVEL, MOIST | | VERY STIFF, GRAY, SILTY CLAY , LITTLE SAND AND TRACE GRAVEL, DAMP | VERY STIFF TO HARD, GRAY, SILT AND CLAY, SOME SAND AND TRACE GRAVEL, DAMP | | | | VERY STIFF TO HARD, GRAY, SILTY CLAY , LITTLE SAND AND TRACE GRAVEL, DAMP | | | | | | | | | |
| 14.08 | 2601745 | 10/2 | NAL DESCRI | | ဖ | LAY, IOIST | Ţ. Ř Ř | ,000, | 7 9 2 | YCLA | | ĽAY, | Y, SIL | | | | Y, SIL DAM | | | | | | | | | |
| FUL-120-14.08 | BRIDGE N: | END | AND | | SCHE) | B ÄĀĀ ĀĀĀ | N, SIL STO | ¥ € |)) | SILT) | | Σ L. | GRA) (VEL, | | | | GRA VEL, | | | | | | | | | |
| | NEW PK | , E | MATE | ξĒ | CHES | ILT A STOI D, DAI | ROW | D, WI | (T) | RAY, EL, N | | X, SIL DAMP | ARD, | | | WEL | ARD, EGRA | | | | | | | | | |
| | | 18 | | 힐 | - 8 IN | NN, S SHED SANI | FF, B | SAN | | FF, G | | , GRA VEL, I | TOH | | | : GR⁄ | TO H | | | | | | | | | |
|) - - | 101110 | 10 14 | | LT - 7 | VETE IED S | BROV CRU | M STI | SOME | <u> </u> | M STI | | GRA | STIFF AND T | | | Ē | STIFF AND T | | | | | | | | | |
| PROJECT: | Y P.F. - F.F. - F.F. | 1∺ | | ASPHALT - 7 INCHES | CONCRETE - 8 INCHES CRUSHED STONE - 3 INCHES | TIFF, RACE 92.5:" | APDIC. | @5.5: SOME SAND, WITH WOOD, WET | (MCDE 10.3%) | MEDIUM STIFF, GRAY, SILTY AND TRACE GRAVEL, MOIST | | ERY (| ERY S | | | @17': LITTLE GRAVEL | ERY S | | | | | | | | | |
| 出 | _ 5 | r R | | | رورن | യ ⊢ മ | ∢∠∠ | v : | シー | ≥ ∢ | | | | | | | | | O - (LL X | | | | | | | |

STANDARD ODOT LOG WI SULFATES (8.5 X 11) - OH DOT.GDT - 1/14/22 14:47 - 5:/PROJECTS/1987301.GPJ

| PID: 101140 SFN: 2601745 PROJECT: | FUL-120-14.08 | | STATION / OFFSET: | OFFSET | | 743+06, 10' RT | 'RT. | STA | START: | 10/7/20 | \vdash | END: | 10/7/20 | H | PG 2 OF 3 | B-001-0-20 | -0-20 |
|---|----------------|---|---|--------|--------|----------------|------------|-----|------------------|---------------|----------|---------------|--------------|--------|--------------------|------------|-------|
| MATERIAL DESCRIPTION AND NOTES | ELEV. 688.0 | DEPTHS | SPT/ RQD | | 일 % | SAMPLE ID | H (tsf) | GR. | RADATIC CS FS | GRADATION (%) | 占 | ATTER LL F | ATTERBERG | \ N | ODOT CLASS (GI) | SO4 ppm | HOLE |
| VERY STIFF TO HARD, GRAY, SILTY CLAY , LITTLE SAND AND TRACE GRAVEL, DAMP (continued) | | - 33 - 33 - 33 | | | | | - | | 1 | | | | | _ | | | |
| @33.5: SOME SAND | | ¥ | 5 9 11 | 26 | 100 | SS-16 | 4.50 | ' | ' | , | 1 | 1 | ' | 12 | A-6b (V) | ı | |
| HARD, GRAY, SANDY SILT , "AND" CLAY, DAMP | 682.0 | 3 7 8 8 | | | | | | | | | | | | | | | |
| | | 39 - 40 - 7 | 17 14 | 40 | 100 | SS-17 | 4.00 | 0 | 4 | 46 | 20 | 21 | 14 7 | 4 | A-4a (8) | 1 | |
| | 676.0 | - + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | |
| SAND AND TRACE GRAVEL, DAMP | | 44 | 4 7 | 12 | 100 | SS-18 | 4.50 | | ' | | | | ' | 4 | A-6b (V) | ' | |
| IN-MODEC 12/188 | | - 46 - 46 - 47 - 47 | | | | | | | | | | | | | | | |
| | 669.5 | 9 7 | 9 23 | 52 | 100 | SS-19 | 4.25 | | ' | | ı | | ' | 41 | A-6b (V) | ı | |
| GRAVEL, DAMP | | - 52 - 1 - 52 - 1 - 53 - 1 | | | | | | | | | | | | | | | |
| (23.5': LITTLE SAND | | - 54 | 9 13 | 86 | 90 | SS-20 | 4.50 | , | ' | | | , | ' | 4 | A-6b (V) | | |
| | 660.5 | 5 - 1 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - | | | | | | | | | | | | | | | |
| HARD, GRAY, SILT AND CLAY , LITTLE SAND AND TRACE GRAVEL, DAMP | | 29 | 11 17 24 | 23 | 17 8 | SS-21 | 5.44* | 2 | 3 7 | 22 | 99 | 28 1 | 13 15 | 13 | A-6a (10) | ' | |
| | | 6 - 6 | , | | | | | | | | | | | | | | |
| ONAIS. | 655.5 | 63 | 6 | | + | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

DESIGN AGENCY

PPOPULATION OF BRANCH OF BRANCH

SOIL PROFILE - ROADWAY FUL-120-1408 OVER TENMILE CREEK BORING LOG B-001-0-20

FUL-120-14.08

SOIL PROFILE - ROADWAY FUL-120-1408 OVER TENMILE CREEK BORING LOG B-001-0-20 (CONT.)

TRR CPI 01/22

101140 SHEET TOTAL 50 55

| Q N ∈ | В П Т | ABAN- DONED | | |
|--|---|-----------------------------------|--|--|
| EXPLORATION ID B-002-0-20 | PAGE 1 OF 1 | SO4 AE | | |
| EXPLO B-0 | <u>+</u> = = | | | |
| | 1.0 ft. 26.6100 E | ODOT CLASS (GI) | | |
| 3, 11' L | OB: 158332 | O N | | |
| 743+78, 11' LT. SR 120 | (D88) E | ERG | | |
| | ELEVATION: 719.3 (NAVD88) EOB: 1.0 ft. COORD: 748261,5900 N, 1583326.6100 E | ATTERBERG | | |
| STATION / OFFSET: | N: 719. | C P | Н | |
| STATION / OF | ELEVATIO COORD: | | | |
| ST/ | <u> </u> | | | |
| ATIC ATIC | 2/20/19 | GRAC GR CS | | |
| CME 550X ATV | 2/2 | H (tsf) | | |
| CME A | DATE: | SAMPLE | | |
| | TION | REC SAI | | |
| DRILL RIG: | CALIBRATION DATE: ENERGY RATIO (%): | N ₆₀ | | |
| | | SPT/ RQD | | |
| N N | | oα | H | |
| TTL / KKC | 3.25" HSA SPT | DEPTHS | \prod | |
| | 3.25 | DEF | FOB- | |
| DRILLING FIRM / OPERATOR: SAMPLING FIRM / LOGGER: | ; i | ELEV. 719.3 | 719.1/ | |
| / OPEF | 00: HOD: HOD: | 13 7 | | |
| FIRM | METH G MET | | ×, | <u> </u> |
| DRILLING FIRM / OPERATOF SAMPLING FIRM / LOGGER: | DRILLING METHOD: SAMPLING METHOD: | | | |
| - PR | | | | |
| | 01745 | MATERIAL DESCRIPTION AND NOTES | CHES | <u>2</u> |
| FUL-120-14.08 BRIDGE | 181 | RIAL DESCRI | - 10 IN | |
| FUL-120- BRIDGE | | ATERIA AN | S | |
| | SF SF | M, | NCHE CONC | |
| | 5 | | LT - 2 | |
| PROJECT: TYPE: | | | ASPHALT - 2 INCHES REINFORCED CONCRETE - 10 INCHES | |
| <u> </u> | - <u>a</u> 'o | 1 | <u> </u> ≥'> | L9G. NO SOL LOG WI SULFATES (8.8) 2 - OH DO T. OH DO TO HO - (11 X 8.8) SETATIOG WI SOL TOGO GRADIAN PAGNES (1.8) PAGNES (|

SOIL PROFILE - ROADWAY FUL-120-1408 OVER TENMILE CREEK BORING LOG B-002-0-20

DESIGN AGENCY

Balled Populary Designer

DESIGNER

TRR

REVIEWER

CPI 01/22

PROJECT ID

101140

SHEET TOTAL
50 55

| EXPLORATION ID | B-002-1-20 | | E 10F3 | SO4 HOLE SOM SEALED | | 1300 | - | - (| - | | - | | - | | | - | | - | | - | - | | - | | |
|---|---------------|--------------------------------|---------------------------------------|-----------------------------------|---------|--|--|--|---|-----------|--|----------------|--|----------|---|----------|--------------|---|--------------------------------|-----------|----------|------|--------------------|------|--------|
| LT. | | 80.0 ft | 748261.2500 N, 1583339.1000 | ODOT CLASS (GI) | | A-6b (V) | A-4a (3) | A-6b (10) | A-6b (V) | | A-6a (V) | | A-6a (V) | A-6a (8) | | A-6a (9) | | A-6b (10) | | A-6b (V) | A-6b (V) | | A-6b (V) | | |
| 90, 16' | | ELEVATION: 719.1 (NAVD88) EOB: | 1, 1583 | WC WC | | 8 | 13 | 23 | 79 | | 4 | | 12 | 12 | | 12 | | 13 | | 13 | 13 | | 12 | | |
| 743+90, | SR 120 | VD88) | 500 N | ATTERBERG | + | , | ∞ | 16 | ' | | 1 | | | 41 | | 15 | | 18 | | - | 1 | | ı | | |
| H | l | 1 N | 261.2 | TERB | 1 | ' | 13 | 3 17 | ' | | ' | | ' | 13 | | 11 | | ω (0 | | ' | ' | | ' | | |
| STATION / OFFSET: | | . 719. | 748 | \vdash | + | ' | 2 21 | 33 | ' | | ' | | ' | 4 27 | | 9 26 | | 4 26 | | <u>'</u> | 1 | | ' | | |
|) NC | ALIGNMENT: | NOL | ق | SI CL | 1 | ' | 36 12 | 1 60 | | | ' | | ' | 25 44 | | 26 46 | | 27 44 | | ' - | ' | | ' | | L |
| TATIC | LIGN | I.EVA | COORD: | VTION FS S | 1 | | 10 3 | 11 21 | · · | | | | - | 19 2 | | 14 2 | | 20 2 | | <u>:</u> | <u> </u> | | | | L |
| 0) | <u> </u> | <u>ш</u> | <u> </u> | GRADATION (%) | 1 | | 20 1 | 9 | | | | \vdash | 1 | 6 | | 9 | | 6 | + | | | | | | |
| ATV | ATIC | 2/20/19 | 77.3 | 99 A9 | + | | 52 | 7 | | | | | | n | | ω | | 0 | | - | , | | | | |
| 550X ATV | JTOM, | 2/2 | 7 | HP (fsf) | | 3.00 | 0.50 | 1.00 | 9.1 | | 4.50 | | 4.50 | 4.50 | | 4.50 | | 4.50 | | 4.50 | 4.50 | | 2.43* | | |
| CME | CME AUTOMATIC | CALIBRATION DATE: | ENERGY RATIO (%): | SAMPLE | | SS-1 | SS-2 | SS-3 | SS-4 | | SS-5 | | 9-88 | SS-7 | | 8-88 | | 6-88 | | SS-10 | SS-11 | | SS-12 | | |
| RIG: | Ē. | RATIC | GY RA | REC (%) | | 100 | 100 | 100 | 9 | | 100 | | 100 | 100 | | 100 | | 100 | | 100 | 100 | | 100 | | |
| DRILL RIG | HAMMER: | CALIB | ENER | N % | | ω | 00 | 4 | 2 | | 13 | | 56 | 24 | | 27 | | 21 | | 52 | 23 | | 24 | | l |
| | | | <u>-</u> | SPT/ RQD | | ۳ ر | 3 | 7 - (| | | 5 | | 8 12 | 8 | | 8 5 | | 9 | | 10 | 9 | 12 | 8 = | | |
| L / JW | TTL / KKC | 4 | | | | - 2 | ε . | 4 . | 9 1 |) - 80 | 9 6 | 2 - | 13 - 5 | 4 - 15 | - | - 17 | - 18 - 18 | - 19 | - 21 | 22 - 23 | - 24 | - 25 | - 27 | - 28 | |
| OPERATOR: TTL | | 3.25 | HOD: SPT | ELEV. DEPTHS | 718.6 | 716.6 | 715.1 | | | 710.6 | | 708.1 | | | | | 700.6 | | | | | | | | _ _ |
| FUL-120-14.08 DRILLING FIRM / OPERATOR: | | 2601745 | 10/7/20 END: 10/8/20 SAMPLING METHOD: | MATERIAL DESCRIPTION AND NOTES | | CONCRETE - 3 INCHES MEDIUM STIFF, OXY, SILTY CLAY, SOME SAND AND TABLES STORE MOIST EIL IN THE STORE STORE STORE MOIST EIL IN THE STORE | MEDIUM STIFF, GRANDY SILT, SOME CRISHED STORY, SANDY SILT, SOME CRISHED STORY ITTLE CLAY TRACE ASPHALT | AND BRICK FRAGMENTS, MOIST FILL SOFT TO MEDIUM STIFF, GRAY, SILTY CLAY, LITTLE | SAND AND TRACE GRAVEL, MOIST RAPPLI IM STIFF | | STIFF TO VERY STIFF, BROWN, SILT AND CLAY , SOME SAND AND LITTLE GRAVEL, MOIST | | VERY STIFF TO HARD, GRAY, SILT AND CLAY , SOME SAND, TRACE GRAVEL, IRON OXIDE STAIN STEAM, DAMP | | | | | VERY STIFF TO HARD, GRAY, SILTY CLAY , SOME SAND, DAMP | ©21; LITTLE SAND. TRACE GRAVEL | | 111111 | | @26.0°. VERY STIFF | | |
| PROJECT: | TYPE: | | START: | | ASPHALT | MEDIUM (| MEDIUM (CRUSHE) | AND BRIC SOFT TO | SAND AN |) | STIFF TO SOME SA | | VERY STII SAND, TR DAMP | 1070011 | | 0:01 77 | | | | | .o) ear | J700 | | | |

| 1-20 | HOLE | | | | | | | | | | | | | |
|---|-----------------------------------|---|----------------------------|--|--|----|---------------|-----------------|------------|--------------------|--------------------------------|-------------------|---------------|---|
| B-002-1-20 | SO4 ppm | | | | | | | | | | | | ı | |
| PG 2 OF 3 | ODOT CLASS (GI) | | A-6b (V) | | A-6b (10) | | A-6b (V) | | A-6b (V) | | A-6b (V) | | A-6b (V) | |
| | WC | | 14 | | 14 | | 14 | | 13 | | 14 | | 13 | |
| 10/8/20 | 3ERG | | | | . 16 | | - | | ı | | ı | | ı | |
| | ATTERBERG | 1 | ' | | 30 14 | | - | | ' | | ' | | ' | |
| END: | 75 CL | | | | 45 3 | | - | | 1 | | 1 | | | |
| 10/7/20 | | 1 | | | 26 | | - | | 1 | | 1 | | | |
| ' | GRADATION (%) | 1 | | | 16 | | • | | | | | | ' | |
| START: | GRAI | | | | ∞ | | • | | | | ı | | ı | |
| Т. | P GR | | - 22 | | 4* 5 | | - 57 | | * <u>*</u> | | - 00 | | | |
| , 16' L | E HP (tsf) | | 4 4.25 | | 5 5.04* | | 3 4.25 | | 7 4.08* | | 3 4.50 | | 9 4.50 | |
| 743+90, 16' LT. | SAMPLE ID | ! | SS-14 | | SS-15 | | SS-16 | | SS-17 | | SS-18 | | SS-19 | |
| :E | REC (%) | | 100 | | 94 | | 89 | | 83 | | 100 | | 100 | |
| STATION / OFFSET | z Z | | 21 | | 31 | | 35 | | 39 | | 40 | | 14 | |
|) / NOI | SPT/ RQD | | 7 | | 7 12 | | 8 11 16 | | 7 15 15 | | 8 13 | | 7 12 20 | 10 |
| STAT | | 32 – | 45 % | 36 – 37 – 38 – 38 – 38 – 38 – 38 – 38 – 38 | 39 | 42 | 44 | 46 | 49 | 52 | 54 | 56 | 65 | 64 - 63 - 64 - 64 - 64 - 64 - 64 - 64 - |
| | DEPTHS | | | | | | | | | | | | | |
| 4.08 | | | | | | | | | | | | | | |
| FUL-120-14.08 | ELEV. | | | 680.6 | | | | | | | | | | |
| FUL | Ш | 1 | | | | | | | | | | | | |
| | | | | 111111111111111111111111111111111111111 | | | 111111 | | | | | 1111111111111111 | | |
| PROJECT: | | Ā | | | Щ. | | | | | | | | | |
| PRC | NC | 1 ¥, SO | | | TRAC | | | | | | | | | |
| | RIPTIC SS | 7 CL/ | | | SAND, | | | | | | | | | |
| 2601745 | MATERIAL DESCRIPTION AND NOTES | , SILT | Ω | | OME | | | | | | RAVEL | | | |
| 26 | FRIAL | GRA) | O HAR | | LAY, S | | | | | | ND G | | | |
| SFN: | MATE | HARD, Intinue | IFF T | | <u>LTY С</u> | | | | | | AND A | | | |
| 1 | | 1F TO 1 | RY ST | | AY, SII JAMP | | | | | | TLES | | | |
| 101140 | | VERY STIFF TO HARD, GRAY, SILTY CLAY , SOME SAND, DAMP <i>(continued)</i> | @33.5': VERY STIFF TO HARD | | HARD, GRAY, SILTY CLAY , SOME SAND, TRACE GRAVEL, DAMP | | | | | | @53.5': LITTLE SAND AND GRAVEL | | | |
| PID: | | VER | @33 | | HARI | | | | | | @53 | | | |
| ـــــــــــــــــــــــــــــــــــــــ | | <u> </u> | | | | ſ | .90.108 | :\PROJECTS\1987 | S - 10:9 | OT.GDT - 1/14/22 1 | - OH D | (11 X 8.8) S∃TA7J | 18 /M 90 | ADARD ODOT LO |

DESIGN AGENCY

I S 9 1 P. J. O 9 S 9 R

DESIGNER

TRR

REVIEWER

CPI 01/22

PROJECT ID

101140

SHEET TOTAL
51 55

SOIL PROFILE - ROADWAY FUL-120-1408 OVER TENMILE CREEK BORING LOG B-002-1-20

| B-002-1-20 | ı | ppm SEALED | | | • | | | | 1 |
|-------------------|----------------------|------------|---|----------------------------|-------------------|--------------------------|--|----------|--|
| PG 3 OF 3 | ODOT | | A-6b (V) | | A-6b (V) | | A-4a (V) | | A-4a (V) |
| | C | Ĥ | 12 | | 12 | | 10 | | 7 |
| 10/8/20 | BERG | PL PI | | | ' | | | | - |
| END: | ATTERBERG | П | | | | | - | | |
| | | ر ا | | | | | - | | |
| 10/7/20 | GRADATION (%) | S | | | | | - | | |
| 1 1 | DATIC | FS | | | | | - | | ' |
| START: | GRA | GR CS | | | | | 1 | | 1 |
| | 모 | (tsf) | - 05 | | 4.50 - | | 4.50 | | 4.50 - |
|), 16' [| | | | | | | | | |
| | SAMPLE | | - | | SS-21 | | SS-22 | | SS-23 |
| ET: | REC | | 68 | | 96 | | 83 | | 78 |
| OFFSI | _ | | 8 | | 46 | | 72 | | 79 |
| STATION / OFFSET: | SPT/ | RQD | 14 | | 11 | | 22 26 30 | | 24 29 32 |
| STA | ١, | _ | - 65 | - 66 - - 67 - - 68 - | 69 | 73 – 73 – 73 – 73 – 73 – | - 74 | | - 62 - |
| | | DEPIHS | | | | | | | <u>. </u> |
| -14.08 | | | | | | | | | C |
| FUL-120-14.08 | ELEV. | 654.9 | | | | 645.6 | | | 639.1 |
| ч | | | | | | | | | |
| PROJECT: | | | CE | | | | HARD, GRAY, SANDY SILT , LITTLE CLAY AND TRACE GRAVEL, MOIST | | |
| _ PR | <u>~</u> | |), TRA | | | | Y AND | | |
| 45 | CRIPT | TES | E SAN | | | | E CLA | | |
| 2601745 | 7 DES | AND NOTES | SOME | | | | , LITTL | | |
| | MATERIAL DESCRIPTION | Ą | HARD, GRAY, SILTY CLAY , SOME SAND, TRACE GRAVEL, DAMP (continued) | | | | Y SILT | | ÆL |
| SFN: | MA | | SILTY P (con | | SAND | | SAND | | GRA |
| 101140 | | | BAY, DAM | | SOME | | SRAY, , MOIS | | ELES. |
| | | | ARD, C RAVEL | | @68.5': SOME SAND | | ARD, C RAVEL | | @78.5': LITTLE GRAVEL |
| PID: | | | ÍΞÖ | | <u>ම</u> | | ヹ゙゙゙゙゙゙゙゙゙゙ | L90.1087 | |

SOIL PROFILE - ROADWAY FUL-120-1408 OVER TENMILE CREEK BORING LOG B-002-1-20 (CONT.)

DESIGN AGENCY

PROJUCTORY

DESIGNER

TRR

REVIEWER

CPI 01/22

PROJECT ID

101140

SHEET TOTAL 52 55

| ECT: | DRILLING FIRM / OPERATOR: | TTL/TB | | FSET: | Ν̈́ |
|---|---------------------------|---|--|--|------------|
| TYPE: RETAINING WALL | SAMPLING FIRM / LOGGER: | TTL / KKC | HAMMER: CME AUTOMATIC | ALIGNMENT: SR 120 ALIGNMENT: ALIG | ЭШ |
| TUT140 SFN: RT: 10/9/20 END: | SAMPLING METHOD: | 3.25" HSA SPT | | 23.5 ft. 3342.4600 E |) <u>†</u> |
| MATERIAL DESCRIPTION AND NOTES | | DEPTHS SPT/ | N ₆₀ REC SAMPLE HP GRAIN (%) ID (tsf) GR CS | DATION (%) ATTERBERG ODOT SO4 FS SI CL LL PL PI WC CLASS (GI) ppm | HOLE |
| ASPHALT - 1 INCH CRUSHED STONE - 35 INCHES | | - 2 | | 8 | |
| BROWN, SILTY CLAY , SOME SAND, LITTLE CRUSHED STONE, AND TRACE BRICK FRAGMENTS FILL | LE XXX / 18.2 RAGMENTS | ω 4 ro | | | |
| GRAY, SILTY CLAY , SOME SAND | 712.7 | 9 | | | |
| BROWN, SILT AND CLAY , LITTLE SAND | 707.2 | | | | |
| @14: GRAY | | 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | |
| | 695.7 | 20 | | | |
| | | | | | |
| NOTES: NONE | | | | | П |
| ABANDONMENT METHODS MATERIALS QUANTITIES: | PI ACED 0 25 BA | 3 ASPHALT PATCH: PU | G ASPHALT PATCH: PUMPED 7 CF BENTONITE GROUT | | |

SOIL PROFILE - ROADWAY FUL-120-1408 OVER TENMILE CREEK BORING LOG X-003-0-20

DESIGN AGENCY

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SHEET TOTAL 53 55

| ECT: | DRILLING FIRM / OPERATOR: | TTL/TB | | FFSET: |
|---|---------------------------|-------------|------------------------------------|---|
| E: RETAINING V | SAMPLING FIRM / LOGGER: | TTL / KKC | 5 | -500-4 |
| 01140 SFN: 26 | DRILLING METHOD: | 3.25" HSA | `` | ION: 718.9 (NAVD88) EOB: 23.5 ft. |
| START: 10/9/20 END: 10/9/20 | SAMPLING METHOD | SPT | ENERGY RATIO (%): 70.8 | _ |
| MATERIAL DESCRIPTION AND NOTES | N ELEV. | DEPTHS SPT/ | N ₆₀ (%) ID (tsf) GR CS | GRADATION (%) ATTERBERG ODOT SO4 HOLE CS FS SI CL LL PL PI WC CLASS (GI) ppm SEALED |
| ASPHALT - 1 INCH | 718.8 | | | |
| CRUSHED STONE - 35 INCHES (WITH CONCRETE FRAGMENTS) | 715.9 | - 2 | | |
| BROWN, SILTY CLAY , SOME SAND, LITTLE CRUSHED STONE FILL | | | | |
| | 712.4 |) | | |
| GRAY, SILTY CLAY , SOME SAND AND LITTLE GRAVEL | | / w w t | | |
| | 7064 | 1 1 1 | | |
| GRAY, SILT AND CLAY , LITTLE SAND | | £ 4 £ £ | | |
| @16': TRACE GRAVEL | | 6 7 8 6 | | |
| | | 22 - 3 | | |
| | 695.4 | FOB. 7 - 23 | | |
| | | | | |
| | | | | |

SOIL PROFILE - ROADWAY FUL-120-1408 OVER TENMILE CREEK BORING LOG X-003-1-20

DESIGN AGENCY

I POPULATION FROM THE PROPERTY OF THE PROPERTY

SHEET TOTAL
54 55

| BINI ING | DRILLING FIRM / OPERATOR: | TTL / TB | DRILL RIG: | | CME 75 TRUCK 111 | TRUC | <u>7</u> | ST | STATION / OFFSET: | / OFF | SET | 44 R. | 744+48, 2 SR 120 | 29' LT. E | EXPLORATION ID B-004-0-20 | TION II -0-20 |
|--|---------------------------|---|------------|-------------------|------------------|----------|--------------|------------------|--------------------------------|-------|--------|-----------|---------------------|--------------------|------------------------------|------------------|
| 101140 SFN: 2601745 | DRILLING METHOD: | 3.25" HSA | CALIB | NO NO | DATE | 2/20 | 2/20/19 | <u> </u> | ELEVATION: 719.4 (NAVD88) EOB: | | 9.4 () | AVD8 | 8) EOE | 3: 20.0 ft. | it. | PAGE |
| 10/9/20 END: 10/9/20 | SAMPLING METHOD: | SPT | ENER | ENERGY RATIO (%): | · _ :(%) c | 70 | 70.8 | <u>ც</u> | COORD: | | 4825 | .2300 | N, 158 | 3397. | ш | 1 OF 1 |
| MATERIAL DESCRIPTION AND NOTES | N ELEV. 719.4 | DEPTHS SPT/ | N og N | REC SAMPLE (%) | | HP (tsf) | GRAI GR S | ADATIC s Fs | GRADATION (%) | 72 | ATTE | ATTERBERG | (n) = | ODOT CLASS (GI) | SO4 | ABAN- DONED |
| | 719.1 | | | | | | | | | | | | | | | |
| CONCRETE: 5 INCORES MEDIUM STIFF, DARK BROWN, SILT AND CLAY, WITH WOOD, LITTLE SAND, AND TRACE CRUSHED STONE. WET FILL. | | 2 - 2 - 3 - 2 - 3 | φ | 100 | SS-1 | 1.25 | 1 | | - | | | | - 40 | A-6a (V) | - | |
| (HIGHLY ORGANIC, ORGANIC CONTENT = 11.7%) STIFF TO VERY STIFF, BROWN, SILTY CLAY , LITTLE SAND AND TRACE GRAVEL, DAMP | AY, LITTLE | 5 4 7 | 5 | 100 | SS-2 3 | 3.47* | ' ' | ' | | - | 1 | | - 15 | A-6b (V) | - | |
| VERY STIFF TO HARD, BROWN, SILT AND CLAY , SOME SAND AND TRACE GRAVEL, DAMP | 713.4 | 6 6 8 7 14 | 26 | 100 | SS-3 | 4.50 | 6 9 | 19 | 24 | 42 | 78 | 17 11 | 1 4 1 | . A-6a (7) | - | |
| @8.5: HARD | | 8 9 5 | 31 | 100 | SS-4 | 4.50 | | ' | | | | <u> </u> | - 13 | A-6a (V) | ' | |
| @13.7': VERY STIFF TO HARD GRAY | | / <u> </u> | 25 | 100 | SS-5 | 4.50 | 1 | 1 | 1 | 1 | 1 | | - 2 | A-6a (V) | - | |
| | |) [| | | | | | | | | | | | | | |
| | 699 | - 19 - 3 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 52 | 100 | 9-88 | 4.50 | | <u>'</u> | 1 | • | 1 | · | - 13 | A-6a (V) | - (| |

SOIL PROFILE - ROADWAY FUL-120-1408 OVER TENMILE CREEK BORING LOG B-004-0-20

SHEET TOTAL
55 55