

PROJECT DESCRIPTION

THIS EXPLORATION WAS PERFORMED FOR THE ADDITION OR REPLACEMENT OF OVERHEAD TRAFFIC SIGNAL SUPPORTS AT THE INTERSECTIONS OF SR 163 AND SR 269 AS WELL AS SR 163 AND N. BUCK ROAD IN DANBURY TOWNSHIP AND LAKESIDE, OTTAWA COUNTY, OHIO. THE PROJECT IS DESIGNATED AS D02 TSG FY2025, PID 110100.

HISTORIC RECORDS

A REVIEW OF ODOT RECORDS FOR THE PROJECT AREAS INDICATED THAT HISTORIC BORINGS HAVE BEEN PERFORMED WITHIN THE PROJECT AREAS. THE HISTORIC BORINGS INCLUDE THOSE THAT WERE PERFORMED AS PART OF THE FOLLOWING PROJECTS:

- OTT-53&163-(8.54-29.67) IN 1951.
- OTT-163-31.84 IN 1955.
- OTT-240-0.00 IN 1958. AT THAT TIME, SR 269 WAS IDENTIFIED AS SR 240.
- OTT-163-(31.07)(35.71)(36.08) IN 1962.

BORING NUMBERS WERE NOT ASSIGNED TO THE BORINGS, RATHER THEY WERE IDENTIFIED BY STATION AND OFFSET. THEREFORE, THE HISTORIC BORINGS ARE IDENTIFIED IN THIS DISCUSSION WITH A BORING NUMBER EQUAL TO THE HISTORIC STATION. THE BORINGS DID NOT INCLUDE SPT SAMPLING. RATHER THE BORINGS WERE AUGER PROBES THAT INCLUDED COLLECTED SAMPLES AT VARYING DEPTHS.

THE 1951 EXPLORATION INCLUDED BORINGS PERFORMED IN THE PROJECT AREAS ALONG 163, WHICH ARE IDENTIFIED AS B-253-0-51, B-255-0-51, AND B-256-0-51 NEAR THE SR 269 INTERSECTION, AS WELL AS B-277-0-51 IN THE VICINITY OF THE NORTH BUCK ROAD INTERSECTION. THESE BORINGS WERE EXTENDED TO DEPTH OF 8 FEET. VISUAL CLASSIFICATION WAS INCLUDED FOR EACH SAMPLE. HOWEVER, THE NOTES FOR THE BORINGS AT THE SR 269 INTERSECTION WERE ILLEGIBLE. THE SOIL PROFILE INCLUDED AN A-7-6 HATCH FOR THESE BORINGS. FOR BORING B-277-0-51, A SAMPLE FROM 3 TO 4 FEET WAS TESTED FOR MECHANICAL CLASSIFICATION (INDICATED AS A-6B). IN THE SOIL PROFILE, THE HATCH ABOVE AND BELOW THIS INTERVAL WAS SHOWN AS A-7-6.

THE 1955 EXPLORATION INCLUDED A BORINGS PERFORMED IN THE VICINITY OF THE NORTH BUCK ROAD INTERSECTION ALONG 163, IDENTIFIED AS B-277-0-55. THE BORING WAS EXTENDED TO A DEPTH OF 8 FEET. THE SOILS ENCOUNTERED IN THE BORING CONSISTED OF A-4A MATERIAL UNDERLYING THE TOPSOIL TO A DEPTH OF 0.8 FEET. CAUTION FOR THE A-4A SOILS IN THE SOIL PROFILE INCLUDED A NOTE INDICATING THIS MATERIAL WOULD BE "RUBBERY AND UNSTABLE" AT WATER CONTENTS WHICH EXCEED THE OPTIMUM. THE SOILS ENCOUNTERED UNDERLYING THE A-4A SOILS CONSISTED OF A-6B.

THE 1958 EXPLORATION INCLUDED BORINGS PERFORMED ALONG SR 269 IDENTIFIED AS B-118-0-58 AT THE SR 269 INTERSECTION, AS WELL AS B-143-0-58, B-143-1-58, B-143-2-58, AND B-143-3-58 AT THE NORTH BUCK ROAD INTERSECTION. BORINGS B-143-0-58 AND THE BORING B-143 OFFSET 12 FEET LEFT WERE EXTENDED TO A DEPTH OF 8 FEET. THE BORINGS B-143 AT CENTERLINE, OFFSET 5 FEET LEFT, AND OFFSET 5 FEET RIGHT WERE INDICATED TO BE FOR A PAVEMENT SURVEY OF THE EXISTING ROADWAY CONDITIONS AND SUBGRADE SOILS EXTENDING ONLY TO A DEPTH OF 3.5 FEET. THE SOILS ENCOUNTERED IN THE BORINGS INCLUDED A-6A AND A-7-6.

THE 1962 EXPLORATION INCLUDED A BORING PERFORMED ALONG SR 163 NEAR THE INTERSECTION WITH SR 269, WHICH IS IDENTIFIED AS B-255-0-62. THE BORING WAS TERMINATED AT A DEPTH OF 7 FEET WITH AN INDICATION OF REFUSAL ON "BOULDERS". THE SOILS ENCOUNTERED IN THE BORING CONSISTED OF A-7-6 MATERIAL EXTENDING TO A DEPTH OF 3 FEET UNDERLAIN BY A-6A MATERIAL.

GEOLOGY

PUBLISHED GEOLOGIC MAPS FROM THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) INDICATE THAT THE PROJECT SITE IS LOCATED WITHIN THE HURON-ERIE LAKE PLAINS SECTION, IN THE MAUMEE LAKE PLAINS REGION. WITHIN THIS REGION, THE GEOLOGIC DEPOSITS CONSIST OF LATE WISCONSINAN LACUSTRINE CLAY DEPOSITED IN CALM WATER OR GLACIAL LAKES, WHICH IS MOSTLY LAMINATED AND COVERED IN PLACES WITH THIN ORGANIC DEPOSITS. THE CLAY IS UNDERLINED WITH WAVE-PLANED CLAYEY TILL OVER SILURIAN AND DEVONIAN-AGE CARBONATE BEDROCK DOMINATED BY DOLOMITE WITH OCCASIONAL LIMESTONE.

THE LACUSTRINE SOILS CONSIST OF HISTORIC LAKE DEPOSITS. THE GLACIAL TILL, ALSO REFERRED TO AS MORAINE, WAS DEPOSITED BY THE ADVANCE AND RETREAT OF GLACIERS. THE TILL MAY CONTAIN COBBLES AND/OR BOULDERS LEFT IN THE SOIL MATRIX. ADDITIONALLY, SEAMS OF GRANULAR SOILS MAY ALSO BE ENCOUNTERED WITHIN THE PREDOMINANTLY CLAYEY TILLS. THESE GRANULAR SEAMS MAY OR MAY NOT BE WATER BEARING.

THE BEDROCK IN THE PROJECT AREA IS BROADLY MAPPED ON THE "GEOLOGIC MAP OF OHIO" AS MONROE LIMESTONE. THE BEDROCK UNDERLYING THIS AREA IS PRIMARILY BASS ISLAND DOLOMITE FROM THE SILURIAN AND DEVONIAN PERIODS. THE BEDROCK IS RELATIVELY CLOSE TO THE SURFACE IN SOME AREAS, WHICH CAN INFLUENCE CONSTRUCTION PRACTICES.

REVIEW OF THE ODNR "INTERACTIVE KARST MAP" WEBSITE INDICATED THAT THE SITE IS IN AN AREA OF PROBABLE KARST, WITH THE CLOSEST MAPPED LOCATION OF KNOWN KARST IS APPROXIMATELY ONE MILE NORTHEAST.

NO MINES ARE MAPPED IN THE PROJECT AREAS. THE CLOSEST MINES ARE MAPPED APPROXIMATELY 2½ MILES EAST AND ARE INDICATED AS A SURFACE MINE.

THE USDA WEB SOIL SURVEY INDICATES THAT THE NEAR-SURFACE SOILS IN THE PROJECT AREA ARE MAPPED AS NAPPANEE SILTY CLAY LOAM (NPA). THE NPA SOILS ARE COMPRISED OF TILL FORMED ON LAKE PLAINS AND ARE CONSIDERED TO BE SOMEWHAT POORLY DRAINED WITH A MODERATELY LOW TO HIGH PERMEABILITY.

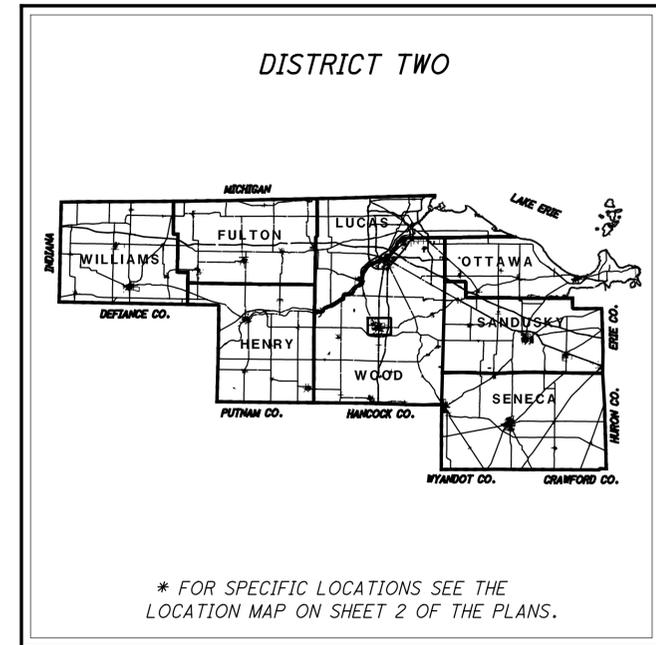
CONT. TO SHEET 2.

LEGEND

DESCRIPTION	ODOT CLASS	CLASSIFIED MECH./VISUAL
SANDY SILT	A-4A	1 1
SILT AND CLAY	A-6A	6 3
SILTY CLAY	A-6B	1 2
CLAY	A-7-6	2 1
	TOTAL	10 7
DOLOMITE	VISUAL	
PAVEMENT OR BASE = X = APPROXIMATE THICKNESS	VISUAL	
SOD AND TOPSOIL = X = APPROXIMATE THICKNESS	VISUAL	
BORING LOCATION - PLAN VIEW.		
HISTORIC BORING LOCATION - PLAN VIEW.		
WC	INDICATES WATER CONTENT IN PERCENT.	
N	INDICATES STANDARD PENETRATION RESISTANCE (NO DRILL ROD CALIBRATION CORRECTION)	
N ₆₀	INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.	
X/D"	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT); X/D" = NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL	
X/Y/Z/D"	NUMBER OF BLOWS FOR STANDARD PENETRATION TEST (SPT); X = NUMBER OF BLOWS FOR FIRST 6 INCHES (UNCORRECTED); Y = NUMBER OF BLOWS FOR SECOND 6 INCHES (UNCORRECTED); Z/D" = NUMBER OF BLOWS (UNCORRECTED) FOR D" OF PENETRATION AT REFUSAL	
SS	INDICATES A NON-PLASTIC SAMPLE.	
QU	UNCONFINED COMPRESSIVE STRENGTH (ASTM D 7012, METHOD C FOR ROCK)	

BORING ID.	SAMPLE ELEVATION	SAMPLE DEPTH	QU (PSI)	LITHOLOGY
B-001-0-24	556.3' – 551.3'	24' – 29'	11,210	DOLOMITE
B-002-0-24	556.3' – 551.3'	21' – 26'	9,777	DOLOMITE
B-003-2-24	565.2' – 560.2'	12' – 17'	9,490	DOLOMITE

BORING ID	SAMPLE ID	SAMPLE ELEVATION	SAMPLE DEPTH	LOI (%)
B-001-0-24	SS - 2	576.8' – 574.3'	3.5' – 6'	5.5
B-002-0-24	SS - 1	576.9' – 573.8'	0.5' – 3.5'	4.3

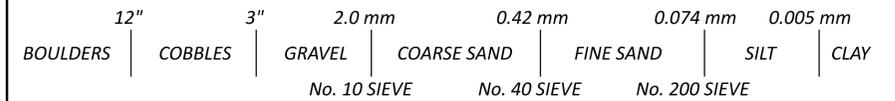


* FOR SPECIFIC LOCATIONS SEE THE LOCATION MAP ON SHEET 2 OF THE PLANS.

LOCATION MAP
SCALE IN MILES



PARTICLE SIZE DEFINITIONS



RECON. - CO 11/13/24
 DRILLING - MG 11/22/24 - 11/23/24
 DRAWN - TLS 3/25
 REVIEWED - CPI 3/25

DESIGN AGENCY	
DESIGNER	
TLS	REVIEWER
CPI 03/19/25	PROJECT ID
	110100
SUBSET	TOTAL
1	9
SHEET	TOTAL
P.19	27

RECONNAISSANCE

CT PERFORMED SITE RECONNAISSANCE ON NOVEMBER 13, 2024. OVERHEAD POWERLINES AND UNDERGROUND UTILITY MARKINGS WERE PRESENT NEARBY THE PROPOSED FOUNDATION LOCATIONS.

ROADWAY PAVEMENTS IN THE PROJECT AREAS APPEARED TO BE IN GOOD CONDITION. EXPOSED DRAIN TILE WAS PRESENT NEARBY BORING B-002-0-24.

SUBSURFACE EXPLORATION

THE BORINGS WERE DRILLED BY DLZ UNDER THE DIRECTION OF CT ON NOVEMBER 22 AND 23, 2024. THE BORINGS WERE PERFORMED AS ODOT TYPE E5 STRUCTURE BORINGS PER GEOTECHNICAL INVESTIGATIVE PROCEDURES OUTLINED IN OHIO DEPARTMENT OF TRANSPORTATION (ODOT) "SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS" (SGE). ALL BORINGS WERE EXTENDED TO AUGER REFUSAL ON BEDROCK AND INCLUDED A 5 FEET ROCK CORE RUN. THREE (3) TEST BORINGS, DESIGNATED AS BORINGS B-001-0-24 THROUGH B-003-0-24 WERE PERFORMED FOR THIS EXPLORATION. OFFSET BORINGS B-003-1-24 AND B-003-2-24 WERE PERFORMED APPROXIMATELY 3 FEET AND 6 FEET SOUTHWEST, RESPECTIVELY, OF B-003-0-24. THE OFFSET BORINGS WERE PERFORMED SINCE IT WAS UNSURE WHETHER REFUSAL IN B-003-0-24 WAS ON UNDERGROUND STRUCTURES/UTILITIES, OR BEDROCK. AFTER CONFIRMING THE PRESENCE OF BEDROCK ALSO AT THE REFUSAL DEPTH IN B-003-1-24 AND B-003-2-24, BORING B-003-2-24 INCLUDED ROCK CORING. THESE BORINGS ARE FULLY DESIGNATED IN ACCORDANCE WITH ODOT PROTOCOL, BUT THE "-0-24" OR "-24" PORTION OF THE NOMENCLATURE IS GENERALLY OMITTED IN THE DISCUSSIONS BELOW.

THE TEST BORINGS PERFORMED DURING THIS EXPLORATION WERE DRILLED WITH A TRUCK-MOUNTED CME 75 DRILL RIG UTILIZING 3/4-INCH INSIDE DIAMETER HOLLOW-STEM AUGERS. DURING AUGER ADVANCEMENT OF THE TEST BORINGS, SPLIT-SPOON DRIVE SAMPLES WERE GENERALLY TAKEN AT 2 1/2-FOOT INTERVALS TO AUGER REFUSAL. THE CALIBRATED HAMMER/ROD ENERGY RATIO FOR THE TRUCK-MOUNTED CME 75 DRILL RIG UTILIZED IN THIS PROJECT IS 76.7 PERCENT, BASED ON CALIBRATION PERFORMED ON JANUARY 12, 2025. ROCK CORING WAS PERFORMED USING AN NQ CORE BARREL.

EXPLORATION FINDINGS

BASED ON THE RESULTS OF OUR FIELD AND LABORATORY TESTS, THE SUBSOILS ENCOUNTERED IN THE BORINGS UNDERLYING THE SURFACE MATERIALS CAN BE GENERALLY DESCRIBED AS COHESIVE SOILS TRANSITIONING FROM MEDIUM STIFF TO STIFF IN THE UPPER PROFILE, TO STIFF TO VERY STIFF CONSISTENCY, AND THEN TO VERY STIFF TO HARD CONSISTENCY WITH INCREASED DEPTH EXTENDING TO THE UNDERLYING BEDROCK. THE COHESIVE SOILS CONSISTED OF A-4A, A-6A, A-6B, AND A-7-6.

UNDERLYING THE COHESIVE SOILS, DOLOMITE BEDROCK WAS ENCOUNTERED. TOP OF ROCK WAS ENCOUNTERED IN BORINGS B-001, B-002, AND B-003 (ORIGINAL AND OFFSETS) AT DEPTHS OF 16 FEET, 18 1/2 FEET, AND 11 FEET, RESPECTIVELY.

DURING THIS EXPLORATION, GROUNDWATER WAS INITIALLY ENCOUNTERED DURING DRILLING IN BORINGS B-001 AND B-002 AT THE TOP OF BEDROCK AT DEPTHS OF 16 FEET BELOW EXISTING GRADE (ELEV. 564.3) AND 18 1/2 FEET (ELEV. 558.8), RESPECTIVELY. GROUNDWATER WAS NOT OBSERVED IN ANY OF THE BORINGS PRIOR TO CORING OPERATIONS. WATER WAS INTRODUCED AS PART OF THE CORING OPERATIONS.

SPECIFICATIONS

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 JANUARY 2025.

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.



DESIGN AGENCY

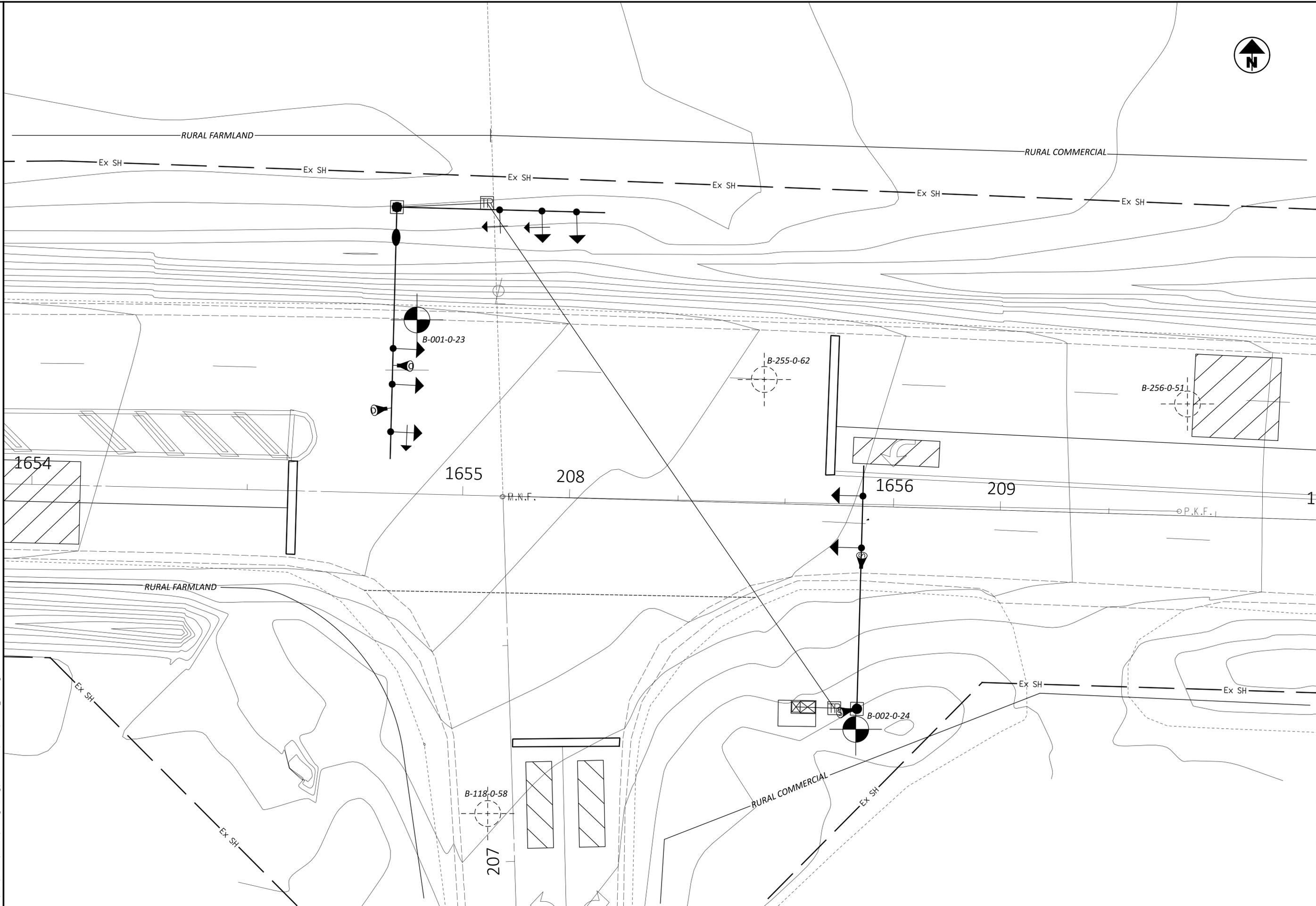
DESIGNER
TLS

REVIEWER
CPI 03/19/25

PROJECT ID
110100

SUBSET TOTAL
2 9

SHEET TOTAL
P.20 27



GEOTECHNICAL PROFILE - TRAFFIC SIGNALS
OTT-163-31.29 (S. BRIDGE RD.)

DESIGN AGENCY



DESIGNER

TLS

REVIEWER

CPI 03/19/25

PROJECT ID

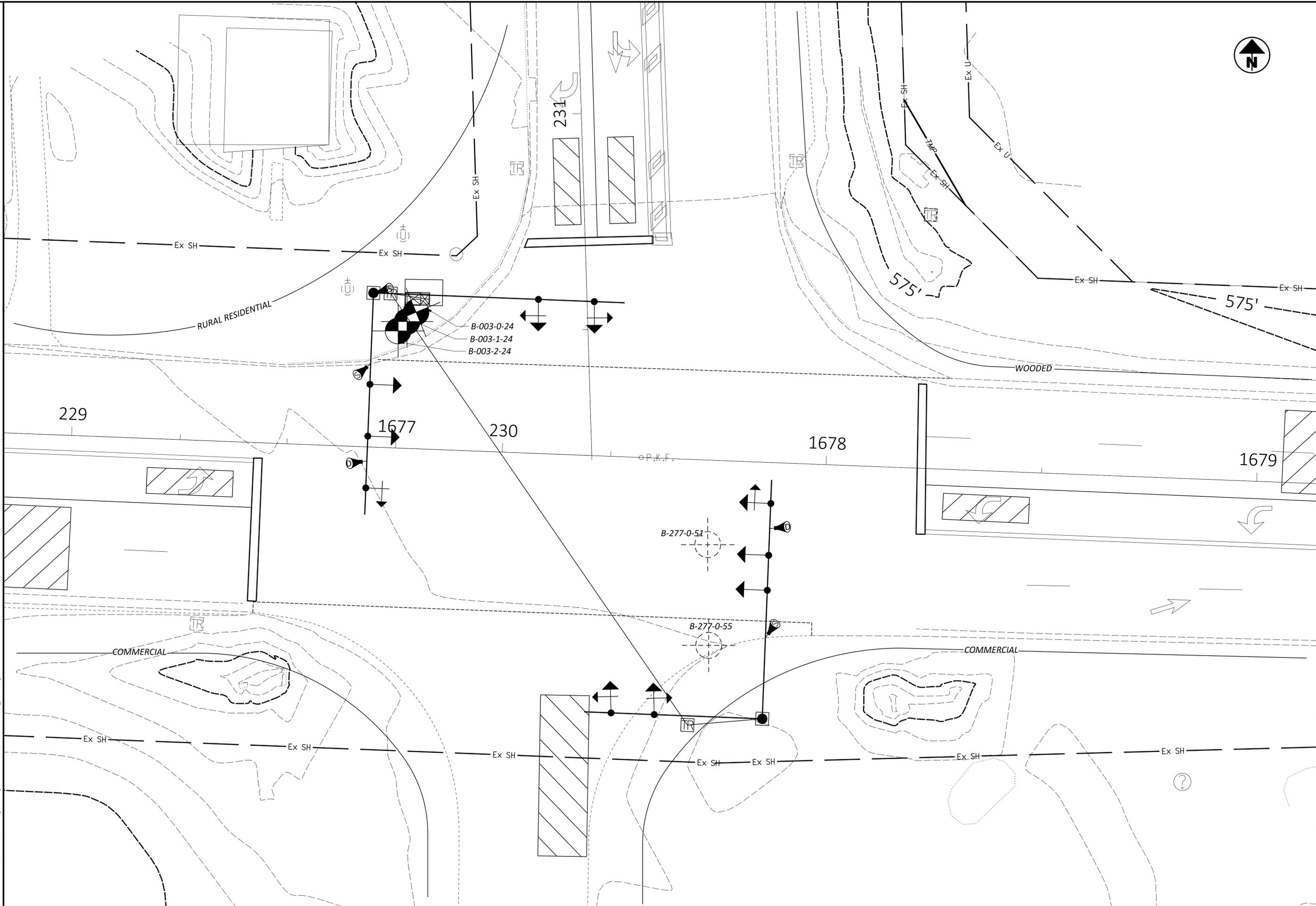
110100

SUBSET TOTAL

3 9

SHEET TOTAL

P.21 27



GEOTECHNICAL PROFILE - TRAFFIC SIGNALS
OTT-163-31.70 (N. BUCK RD.)

DESIGN AGENCY	
DESIGNER	TLS
REVIEWER	CPI 03/19/25
PROJECT ID	110100
SUBSET	TOTAL
4	9
SHEET	TOTAL
P.22	27

D02-TSG-FY2025

MODEL: Sheet PAPER: 34x22 (in.) DATE: 3/21/2025 TIME: 8:59:43 AM USER: somogyi H:\2024\242165\110100\400-Engineering\Geotechnical\Sheets\110100_ID002.dgn

PROJECT: D02 TSG FY2025	DRILLING FIRM / OPERATOR: DLZ / MG	DRILL RIG: DLZ CME 75 TRUCK 78	STATION / OFFSET: 1677+04, 32' LT.	EXPLORATION ID
TYPE: TRAFFIC SIGNAL-SUPPORT	SAMPLING FIRM / LOGGER: DLZ / AM	HAMMER: AUTOMATIC HAMMER	ALIGNMENT: SR 163	B-003-0-24
PID: 110100 SFN: N/A	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 1/12/25	ELEVATION: 577.2 (NAVD88) EOB: 12.0 ft.	PAGE
START: 11/22/24 END: 11/22/24	SAMPLING METHOD: SPT	ENERGY RATIO (%): 76.7	LAT / LONG: 41.531391, -82.822070	1 OF 1
MATERIAL DESCRIPTION AND NOTES				
TOPSOIL - 4 INCHES	ELEV. 577.2	SPT/ RQD	GRADATION (%)	ATTERBERG
STIFF, BROWN, CLAY, SOME SILT, TRACE SAND, MODERATELY ORGANIC, DAMP	576.9	1 3	GR CS FS SI CL	LL PL PI WC
@3.5': STIFF TO HARD		2 4	- - - -	- - - 10
		3 6		
		4 7		
		5 7		
		6 9		
VERY STIFF TO HARD, BROWN, SILT AND CLAY, SOME SAND, TRACE GRAVEL, MOIST Qu = 49.3 PSI = 7,100 PSF	571.2	7 10		
@8.5': VERY STIFF, "AND" SAND, LITTLE GRAVEL		8 15		
		9 19		
		10 17		
		11 11		
	566.2	12 5		
DOLOMITE, BROWN/GRAY, SEVERELY WEATHERED.	565.2	13 33		
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Office of Geotechnical Engineering

B-001-0-24



Core Date: November 22, 2024		Elevation		Ground Surface Elevation: 580.3'	
Run #:	Depth	556.3'	550.8'	65/66	RQD
NQ-1	24'	29.5'	550.8'	98%	54/66 82%
D02 TSG FY2025, PID 110100					



Prepared by:

CT Project No.: 242165



Office of Geotechnical Engineering

B-002-0-24



Core Date: November 23, 2024		Elevation		Ground Surface Elevation: 577.3'	
Run #:	Depth	556.3'	551.3'	58/60	RQD
NQ-1	21'	26'	551.3'	97%	58/60 97%
D02 TSG FY2025, PID 110100					



Prepared by:

CT Project No.: 242165

DESIGN AGENCY	
DESIGNER	TLS
REVIEWER	CPI 03/19/25
PROJECT ID	110100
SUBSET	TOTAL
8	9
SHEET	TOTAL
P.26	27

GEOTECHNICAL PROFILE - TRAFFIC SIGNALS
 ROCK CORE PHOTO LOGS B-001-0-24 & B-002-0-24



Office of Geotechnical Engineering

B-003-2-24



Core Date: November 22, 2024		Ground Surface Elevation: 577.2'	
Run #:	Depth	Elevation	Recovery
NQ-1	12' - 17'	565.2' - 560.2'	94% - 94%
D02 TSG FY2025, PID 110100			
		56.5/60	RQD 94%



Prepared by:

CT Project No.: 242165

DESIGN AGENCY



DESIGNER

TLS

REVIEWER

CPI 03/19/25

PROJECT ID

110100

SUBSET TOTAL

9 9

SHEET TOTAL

P.27 27