

NEWCOMER ASSOCIATES

architecture + engineering

PROJECT MANUAL FOR:

13 E. Seminary Street
Shell Renovation
Mercersburg, PA

Rockwell Construction /
Newcomer Associates

April 13, 2022

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INDEX TO SPECIFICATIONS

DIVISION 0	BIDDING INFORMATION
DIVISION 1	GENERAL REQUIREMENTS
DIVISION 2	DEMOLITION
DIVISION 3	CONCRETE
DIVISION 4	MASONRY – TOTAL BUILDING
DIVISION 5	METALS
DIVISION 6	CARPENTRY
DIVISION 7	THERMAL AND MOISTURE PROTECTION
DIVISION 8	DOORS AND WINDOWS
DIVISION 22	PLUMBING
DIVISION 23	HVAC
DIVISION 26	ELECTRICAL
DIVISION 31	SITE CONSTRUCTION
DIVISION 32	EXTERIOR IMPROVEMENTS
GEOTECHNICAL REPORT	

DIVISION 0 – BIDDING INFORMATION

0.1 THE PROJECT

1. Project shall be defined as Shell Renovation to 13 E. Seminary Street, Mercersburg, PA. The project shall be a Design-Build Contract based on Newcomer Associates Drawings and Specifications. The scope of the work includes complete design services, permitting, and construction of the project including site development, utilities infrastructure and support structures. Project includes, but is not limited to, the following:
 - Stabilize existing exterior envelope with structural steel frame per structural analysis.
 - New engineered steel frame replaces current wood structure. Wood structure removal to follow stabilization of exterior envelope.
 - New roof including structure with dormers
 - Stabilize exterior masonry both buildings and connector walls
 - Exterior walls cleaned up and tuckpointed as needed
 - New plywood decked floors
 - Interior - new floors, construction stair at connector only, exposed brick walls, clean - dust/debris free
 - New windows, doors and lintels similar in architecture. Refer to A201 Elevation.
 - Exterior site (sidewalks, parking, etc.) – repair as required from installation of building utilities.
 - New main utilities to building per code.
 - Tuck point exposed interior brick as needed and noted on structural analysis.
 - Remove chimneys at west building to below roof line.

0.2 DEFINITIONS

1. The word “Owner” in these Specifications refers to the authorized Owner's representatives.
2. The word “Contractor” in these Specifications means “Contractor engaged by the Owner” for Owner’s Self-Developed projects.
3. The word “Project Manager” in these Specifications means “Project Manager is the Owner’s designated representative.”
4. The word “Provide” in these Specifications means to furnish and install, complete and ready for intended use.

0.3 HARB BOROUGH

1. Property is located within the historic area and has been approved by HARB.

0.4 DRAWINGS AND SPECIFICATIONS

1. The Contractor shall provide the Owner with any deviations and/or substitutions from the Contract Drawings, and Specifications in written form for approval.

0.5 CODE COMPLIANCE

1. The Contractor is responsible for code verification and compliance with requirements of authorities having jurisdiction, and for compliance with all applicable requirements. Any revision required by code must be coordinated with the Project Manager.

referencing to the panel/circuit breaker locations.

- f. Floor plan drawings with plumbing fixtures, connections, piping, valve locations, shutoffs, etc.

1.13 WARRANTIES

1. A two (2) year warranty is required on the entire project including materials and labor. A minimum fifteen (15) year NDL roofing warranty is required. Equipment manufacturer warranties shall benefit and inure to Owner.

1.14 SUMMARY BUILDING STABILIZATION – EXTERIOR/INTERIOR

1. The existing building wall/floor structure/exterior envelope will be stabilized and made weather tight. Work includes, but is not limited to, a new structural steel frame to stabilize exterior masonry walls and support new floor system, new roof including structure, new windows/doors and new utilities to the building to provide a building shell for future tenant spaces.

1.15 TECHNICAL SPECIFICATIONS (See drawings for additional information, and submit shop drawings of all materials for review and approval.)

DIVISION 2 – DEMOLITION

1. Removal of existing bearing and non-bearing interior walls as indicated on drawings.
2. Removal of flooring and floor joists – all floors.
3. Removal of existing roofing.
4. Removal of existing roof trusses.
5. Removal of connector, north wall.
6. Removal of existing windows and doors.
7. Removal of existing concrete sidewalks/curbs and brick pavers as needed
8. Removal of existing lintels, sills and trim at windows and doors.
9. Removal of north (2 story) concrete block addition.
10. Removal of all existing chimneys under roof line except chimney within parapet walls.
11. Removal of all loose & hanging debris and clean to be dust free
12. Fire escape removal on rear of building and associated anchor point touch-ups
13. Removal of old utilities at minimum above ground and on the exterior of building. Identify any utilities that remain and/or abandoned in place.
14. Removal of existing boiler(s) at basement.
15. Removal of central stairs at east and west buildings.

DIVISION 3 – CONCRETE

1. Provide piers and interior grade beams to support new interior structural steel frame. Refer to Structural Drawings.
2. Provide new concrete ramps, turn down slabs, and transformer pad as noted on drawings.
3. Provide poured-in-place concrete at doors where required.

DIVISION 4 – MASONRY – TOTAL BUILDING

1. Mason to have experience in historic masonry repointing.
2. Existing painted brick may remain. No other brick is to be painted.

3. Existing spalled brick to be replaced to match; salvage any existing brick to be removed for the Work for re-use.
4. Sound, re-stabilize, and repoint all visible brick wythes at interior and exterior of entire building (Competent interior plaster to remain in place, typical.) Refer to Structural Drawings for additional notes.
5. Repoint visible exterior and interior stone perimeter foundation.
6. Repair/repoint remaining former interior bearing walls as needed to stabilize following selective demolition for steel beam routing and new floor joist clearance.
7. Removal of failed mortar shall not damage existing brick or stone. Mortar joint removal to be raked out minimum 2 - 2.5 times the height of the joint. Head joints shall not be overcut when raked out.
8. Minimize water and use gentle stream only to flush raked joints.
9. New portland lime mortar Type O is to match weathered color, texture, tooling, and joint profile of original mortar at brick and stone areas. Portland cement to conform to ASTM C 150 and lime to conform to ASTM C207. Sand per ASTM C 144 to match existing appearance in color, texture and gradation. Submit mortar samples prior to wall sample panel construction.
10. Sample stone and brick repointing 3' x 3' panels in existing wall at location by G.C. to be provided for Architect, Owner, and HARB approval.
11. Provide new precast lintels at all windows and doors as noted matching former wood lintel design. Submit shop drawings for review and approval.
12. Provide new precast sills at windows and doors as noted. Submit shop drawings for review and approval.
13. All mortar cleaning as necessary to be done with a stiff brush only after mortar is dried but not set within 1-2 hours.
14. Maintain materials and surrounding air temperature to minimum 40 degrees F prior to, during, and 48 hours after completion of masonry work.
15. Maintain materials and surrounding air temperature to maximum 100 degrees F prior to, during, and 48 hours after completion of masonry work.

DIVISION 5 – METALS

1. Provide new structural steel frame within existing building to support floors and stabilize exterior walls. Refer to structural drawings.
2. Provide new steel beams (where noted), and lintels at existing window openings in conjunction with new precast lintels.
3. Provide new floor joists.

DIVISION 6 – CARPENTRY

1. Provide new ¾" tongue and groove sub-floor.
2. Provide new wood roof trusses.
3. Provide new plywood roof deck.
4. Provide wood trim and exterior grade MDF panels where noted.
5. Salvage, repair, and reinstall decorative wood cornices, soffits, fascia.

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

1. Roof
 - a. Provide 30# felt per drawings.

- b. Provide metal drip edge.
 - c. Provide ice and water shield per drawings.
 - d. Provide architectural standing seam metal roof.
 - e. Provide metal fascia per drawings.
 - f. Reinstall salvaged metal cornice.
 - g. Provide metal gutter and downspouts.
 - h. Provide EPDM at existing single story construction.
2. See drawings for new metal siding.

DIVISION 8 – DOORS AND WINDOWS

1. Provide aluminum storefronts and aluminum clad wood windows per drawings within existing masonry opening. Double hung with 6/6 muntin pattern to match existing unless noted/shown otherwise.
2. Provide new aluminum storefronts and aluminum clad doors and frames per drawings, including new hardware as scheduled. Factory finished colors to be selected from manufacturers full range of colors by Owner.

DIVISION 22 – PLUMBING

1. Water and separate sprinkler entry only; see Utility drawings.
2. Sanitary exit to main; see Utility drawings.
3. Re-use/replace downspout boots with scoping as noted below.

DIVISION 23 – HVAC (not applicable)

DIVISION 26 – ELECTRICAL (see drawings)

DIVISION 31 – SITE CONSTRUCTION

1. Contractor shall provide site specific soils investigation in the design of foundations and pavement. Any testing provided by Owner is for informational purposes only. Contractor shall take full responsibility for subsurface conditions and shall perform all other testing the contractor deems necessary. See attached geotechnical report.
2. Contractor shall provide valid certification that the site is free of any materials classified environmentally hazardous.
3. Provide proper drainage must be provided for all roadway/walkway surfaces and subsurface where necessary. It shall be the responsibility of the Contractor to eliminate the possibility of flooding on the site and water ingress to the building.
4. Provide proper drainage for all paved and open areas shall be provided. Subsurface drainage systems, in lieu of surface runoff shall be provided as required to drain and stabilize the pavement base. All roof drainage is to be carried from the site by underground piping.
5. Stormwater management shall utilize best management practices and provide stormwater calculations, if required, for approval by local authority.

DIVISION 32 – EXTERIOR IMPROVEMENTS

1. Remove and replace concrete sidewalk/curb and brick pavers/cobblestones as required for utility work or damage during construction.
2. Underground storm sewer from downspouts to be scoped to main in street and reused if intact.

in test location B-5 ranging from 2 to 5 feet below existing grade. However, it appeared that the soft soils encountered in hand auger B-5 were likely due to probing along the edge of a rock pinnacle or through a fracture. Based on the results of the field exploration and our experience with similar projects, it is our opinion that unsuitable old fill, soft soils, and miscellaneous debris generated during the demolition work should be completely removed and should be replaced with new controlled fill.

We recommend that the design team, owner, and contractor include a contingency in the budget for over-excavation and replacement of unsuitable old fill and soft soils, and a unit rate for this item should be included in the bid.

Based on the exposed rock observed during our field exploration, we anticipate that hard bedrock will be encountered within some of the foundation excavations. Typical construction methods for partial hard rock bearing conditions would include removal of bedrock to a depth of 1 foot below the bearing level and backfilling with soil fill to provide a cushion. We anticipate that undercutting the rock a minimum of one foot would require extreme effort and may not be practical. We anticipate foundation bearing directly on bedrock will experience negligible settlement. Therefore, we recommend that the designer consider this condition when preparing the foundation plans and other structural and architectural details for the project.

LIMITATIONS

This summary letter has been prepared for the exclusive use of Rockwell Construction, Inc. for specific application to the proposed project located at 13 East Seminary Street in Mercersburg, Pennsylvania. The work has been performed in accordance with generally accepted geotechnical engineering practices. No other warranty, expressed or implied, is made.

Triad's responsibilities and liabilities are limited to our client and apply only to their use of our report for the purposes described above.

We appreciate the opportunity to provide our services on this project. If you have any questions regarding this letter, or you require any additional information, please do not hesitate to contact us.

Sincerely,

TRIAD ENGINEERING, INC.



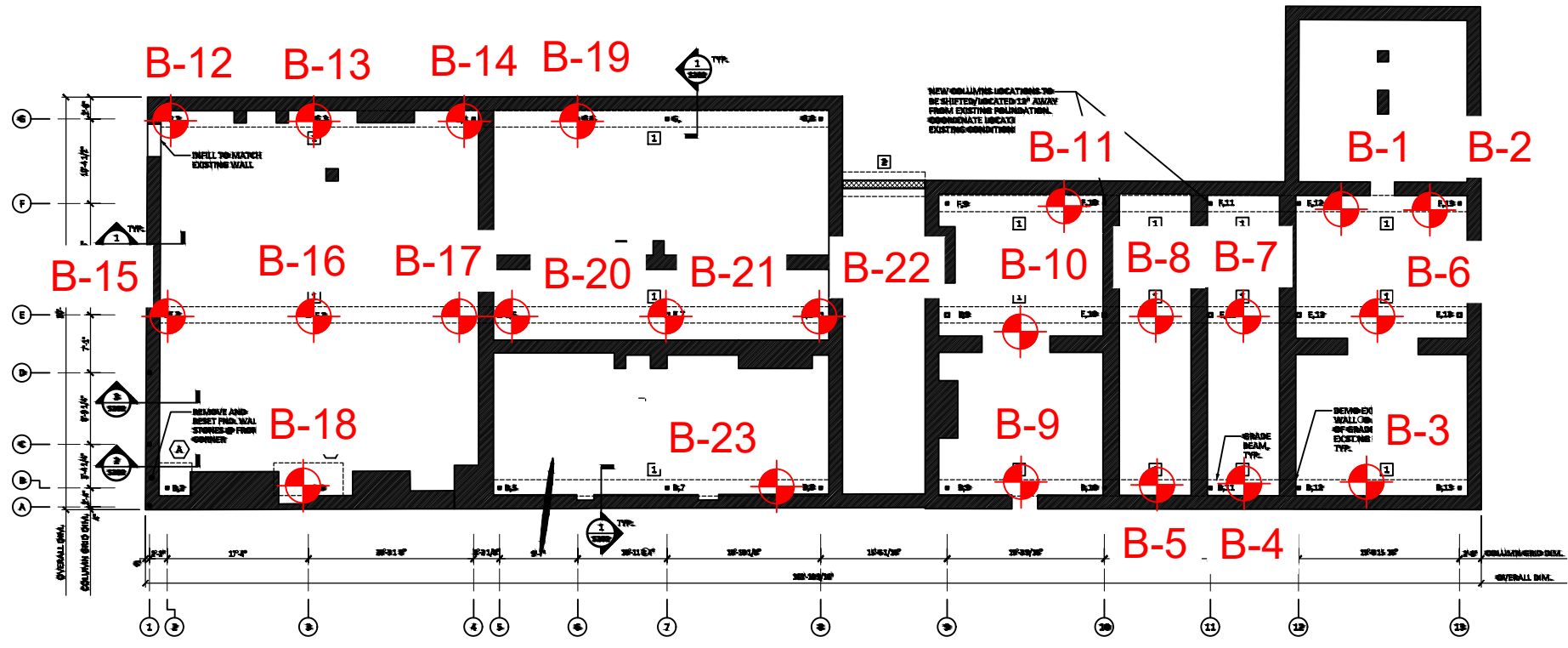
Anthony R. King, E.I.T.
Staff Engineer



Stephen J. Gyuris, P.E.
Geotechnical Services Manager



Attachments: Test Location Plan
Key to Identification of Soil and Weathered Rock Samples
Hand Auger Logs
Wildcat Logs



TRIAD ENGINEERING, INC.

1075-D SHERMAN AVENUE
HAGERSTOWN, MD 21740
PH: 301.797.6400 FAX: 301.797.2424
OFFICE LOCATIONS
MARYLAND • PENNSYLVANIA • VIRGINIA • WEST VIRGINIA

B-#	Approximate Test Location	PROJECT NO: 03-21-0940
		DRAWN BY: ARK
		CHECKED BY: SJG
		DATE: 01-14-2022
		SCALE: 1"=20'

TEST LOCATION PLAN
13 EAST SEMINARY STREET
MERCERSBURG
PENNSYLVANIA



FIGURE :
A-1

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-1**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> ■ Shelby Tube ⊠ Standard Split Spoon </div> <div style="display: flex; justify-content: space-between; font-size: small;"> ▨ Core Sample ▧ Auger Probe </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
	1		11-9-6				Gray sandy SILT , little gravel, trace brick fragments			▧	
	2		8-20-18			0.4	- FILL -			▧	
	3		21-21-20				Tan silty CLAY , trace gravel, trace sand, dry			▧	
						1.5	- RESIDUUM -			▧	
							PROBE TERMINATED AT 1.5 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP.



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F:





HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-2**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	MATERIAL DESCRIPTION	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
	1		2-3-2			0.4	Gray sandy SILT , little gravel, trace brick fragments - FILL -				
			3-4-5				Tan silty CLAY , trace gravel, trace sand, dry				
			3-6-10								
			7-10-9-6			2.2	- RESIDUUM - PROBE TERMINATED AT 2.2 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP.



P:
F:

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-3**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> <div> Shelby Tube Core Sample </div> <div> Standard Split Spoon Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
	1		5-12-15				Tan SILT , trace sand, trace gravel, dry				
	2		17-16-24				- RESIDUUM -				
						1.0	PROBE TERMINATED AT 1.0 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP. Rock outcrops near test location



P:
F:

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-4**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> <div style="text-align: center;"> Shelby Tube Core Sample </div> <div style="text-align: center;"> Standard Split Spoon Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
						0.5	Gray sandy SILT , medium dense, little gravel, dry - FILL -				
						1.5	Brown silty CLAY , medium stiff, trace gravel, trace sand, dry - RESIDUUM -				
							PROBE TERMINATED AT 1.5 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Densities are based on the results of the Wildcat DCP Testing corrected N' Value. Please see attached Wildcat DCP logs.

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-5**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	MATERIAL DESCRIPTION	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
							<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p> Shelby Tube</p> <p> Core Sample</p> </div> <div style="width: 45%;"> <p> Standard Split Spoon</p> <p> Auger Probe</p> </div> </div>				
						0.5	Gray tan gravelly SILT , loose, little sand, dry - FILL -				
						1.5	Brown silty CLAY , medium stiff to soft, trace gravel, dry - RESIDUUM - PROBE TERMINATED AT 1.5 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Densities are based on the results of the Wildcat DCP Testing corrected N' Value. Please see attached Wildcat DCP logs. Test location between two rock pinnacles.





HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-6**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> <div style="text-align: center;">  Shelby Tube  Core Sample </div> <div style="text-align: center;">  Standard Split Spoon  Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
	1		10-13-11				Tan SILT , trace sand, trace gravel, dry			▨	
	2		10-12-10								
	3		10-15-12								
	4		15-11-15-22								
						2.2	- RESIDUUM - PROBE TERMINATED AT 2.2 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP.






HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-7**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  Shelby Tube  Core Sample </div> <div style="width: 45%;">  Standard Split Spoon  Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
						0.5	Gray sandy SILT , medium dense, little gravel, dry - FILL -				
							REFUSAL AT 0.5 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Densities are based on the results of the Wildcat DCP Testing corrected N' Value. Please see attached Wildcat DCP logs. Auger refusal at 2 inches in offset.

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-8**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> ■ Shelby Tube ⊠ Standard Split Spoon </div> <div style="display: flex; justify-content: space-between; font-size: small;"> ▨ Core Sample ▧ Auger Probe </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation	
							MATERIAL DESCRIPTION					
						0.5	Gray sandy SILT , very loose to loose, little gravel, dry - FILL -					
						1.0	Brown silty CLAY , medium stiff to stiff, trace gravel, trace sand, dry - RESIDUUM -					
							REFUSAL AT 1.0 FEET					
5.0												
10.0												

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Densities are based on the results of the Wildcat DCP Testing corrected N' Value. Please see attached Wildcat DCP logs.

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-9**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> <div style="text-align: center;"> Shelby Tube Core Sample </div> <div style="text-align: center;"> Standard Split Spoon Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
						0.6	Gray blackish tan sandy SILT , medium dense, little gravel, trace brick fragments, trace coal, dry, trace ash - FILL -				
						2.0	Tan brown silty CLAY , stiff to very stiff, dry - - soft to medium stiff - RESIDUUM -				
							REFUSAL AT 2.0 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Densities are based on the results of the Wildcat DCP Testing corrected N' Value. Please see attached Wildcat DCP logs.






HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-10**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> <div style="text-align: center;">  Shelby Tube  Core Sample </div> <div style="text-align: center;">  Standard Split Spoon  Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
0.3						0.3	Gray blackish tan sandy SILT , loose, little gravel, trace brick fragments, trace coal, dry, trace ash - FILL - REFUSAL AT 0.3 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Densities are based on the results of the Wildcat DCP Testing corrected N' Value. Please see attached Wildcat DCP logs. Refusal at the ground surface in two separate offsets.

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/12/22**
 Date Completed: **1/12/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-11**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	MATERIAL DESCRIPTION	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
							<div style="display: flex; justify-content: space-around; font-size: small;"> <div style="text-align: left;"> Shelby Tube Core Sample </div> <div style="text-align: left;"> Standard Split Spoon Auger Probe </div> </div>				
						0.7	Gray blackish tan sandy SILT , loose, little gravel, trace brick fragments, trace coal, dry, trace ash - FILL -				
						0.9	Tan SILT , medium stiff to hard, dry				
							REFUSAL AT 0.9 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Densities are based on the results of the Wildcat DCP Testing corrected N' Value. Please see attached Wildcat DCP logs.

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-12**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> <div> <p>■ Shelby Tube</p> <p>▣ Core Sample</p> </div> <div> <p>⊠ Standard Split Spoon</p> <p>▤ Auger Probe</p> </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
	1		4-9-6				Tan SILT , trace sand, dry - RESIDUUM -			| | | |	
	2		2-2-6			0.5	Tan silty CLAY , trace sand, dry			▨ ▨ ▨ ▨	
	3		7-8-5								
	4		5-10			1.8	- RESIDUUM - REFUSAL AT 1.8 FEET			▨ ▨ ▨ ▨	
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP.



P:
F:

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-13**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> <div> Shelby Tube Core Sample </div> <div> Standard Split Spoon Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
	1		6-14-11				Tan SILT , trace sand, dry - RESIDUUM -			| | | |	
	2		9-8-5			0.5	Tan silty CLAY , trace sand, dry			| | | |	
	3		5-7-15							| | | |	
	4		10-12-14-12							| | | |	
						2.2	- RESIDUUM - PROBE TERMINATED AT 2.2 FEET			| | | |	
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP.

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-14**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> <div> Shelby Tube Core Sample </div> <div> Standard Split Spoon Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
10.0	1		11-10			0.3	Tan SILT , trace sand, dry - RESIDUUM - REFUSAL AT 0.3 FEET				
5.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP. Refusal at 2 inches below the ground surface in two separate offsets.

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-15**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	MATERIAL DESCRIPTION	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
							<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p> Shelby Tube</p> <p> Core Sample</p> </div> <div style="width: 45%;"> <p> Standard Split Spoon</p> <p> Auger Probe</p> </div> </div>				
	1		12-7-4				Tan SILT , trace sand, dry			|	
	2		5-7-8			0.5	- RESIDUUM -			|	
	3		10-7-6				Tan silty CLAY , trace sand, dry			|	
	4		7-12-11							|	
						2.0	- RESIDUUM -			|	
							PROBE TERMINATED AT 2.0 FEET			|	
5.0										|	
10.0										|	

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP.

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-16**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> Shelby Tube Core Sample </div> <div style="text-align: center;"> Standard Split Spoon Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
	1		8-20-19			0.4	Tan SILT , trace sand, dry - RESIDUUM -			| | | |	
	2		17-17-17				Tan silty CLAY , trace sand, dry			| | | |	
	3		18-17-22							| | | |	
	4		25-33-38			2.0	- RESIDUUM -			| | | |	
							PROBE TERMINATED AT 2.0 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP.



P:
F:

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-17**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> Shelby Tube Core Sample </div> <div style="text-align: center;"> Standard Split Spoon Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
	1		5-11-26				Tan SILT , trace sand, dry - RESIDUUM -			| | | |	
	2		20-29-28			0.5	Tan silty CLAY , trace sand, dry			| | | |	
	3		26-25-32							| | | |	
	4		27-22-32							| | | |	
						2.0	- RESIDUUM -			| | | |	
							PROBE TERMINATED AT 2.0 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP.

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/12/22**
 Date Completed: **1/12/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-18**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p> Shelby Tube</p> <p> Core Sample</p> </div> <div style="width: 45%;"> <p> Standard Split Spoon</p> <p> Auger Probe</p> </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
						0.3	3.0" CONCRETE				
						0.5	Black brown clayey SILT , trace sand, moist, material has foul odor <div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> - FILL - Brown silty CLAY, trace sand, moist - - medium stiff to stiff - - stiff to very stiff </div>				
						4.0	- RESIDUUM - PROBE TERMINATED AT 4.0 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Densities are based on the results of the Wildcat DCP Testing corrected N' Value. Please see attached Wildcat DCP logs.


HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/12/22**
 Date Completed: **1/12/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-19**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>■ Shelby Tube</p> <p>▣ Core Sample</p> </div> <div style="width: 45%;"> <p>⊠ Standard Split Spoon</p> <p>⊡ Auger Probe</p> </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
0.2						2.5" CONCRETE					
						Brown silty CLAY , trace sand, moist - - stiff to very stiff - - very stiff to hard					
						- RESIDUUM -					
						PROBE TERMINATED AT 4.0 FEET					
4.0											
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Densities are based on the results of the Wildcat DCP Testing corrected N' Value. Please see attached Wildcat DCP logs.

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-20**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> <div> Shelby Tube Core Sample </div> <div> Standard Split Spoon Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
10.0			13-35-50			0.5	Brown SILT , trace gravel, trace sand, dry - RESIDUUM - REFUSAL AT 0.5 FEET				
5.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP.



P:
F:

HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-21**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p> Shelby Tube</p> <p> Core Sample</p> </div> <div style="width: 45%;"> <p> Standard Split Spoon</p> <p> Auger Probe</p> </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
10.0			12			0.3	Brown SILT , trace gravel, trace sand, dry - RESIDUUM - REFUSAL AT 0.3 FEET				
5.0											
1											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP.





HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/11/22**
 Date Completed: **1/11/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-22**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> <div style="text-align: center;">  Shelby Tube  Core Sample </div> <div style="text-align: center;">  Standard Split Spoon  Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
10.0			12			0.3	Brown SILT , trace gravel, trace sand, dry - RESIDUUM - REFUSAL AT 0.3 FEET				
5.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Blow counts were determined utilizing a DCP. Offset test location approximately 5 feet away from the corner of room.



HAND AUGER LOG

Project Number: **03-21-0940**
 Logger: **ARK**
 Date Started: **1/12/22**
 Date Completed: **1/12/22**

Project Name: **13 East Seminary Street**
 Test Location: **See Figure A-2**
 Method: **Hand Auger**
 Drilling Company: **Triad Engineering, Inc.**

Hand Auger No.: **B-23**

Ground Elev.: **N/A**

Depth (feet)	Sample No.	Sample Type	Blow Counts	Recovery (%)	RQD (RUN)	Strata Depth (ft)	<div style="display: flex; justify-content: space-between; font-size: small;"> <div> Shelby Tube Core Sample </div> <div> Standard Split Spoon Auger Probe </div> </div>	RQD (Strata)	Water Level	Graphic Log	Strata Elevation
MATERIAL DESCRIPTION											
						0.3	3.0" CONCRETE				
							Brown silty CLAY , trace gravel, trace sand, dry - - stiff to very stiff - - soft to medium stiff - - medium stiff to stiff				
						4.0	- RESIDUUM -				
							PROBE TERMINATED AT 4.0 FEET				
5.0											
10.0											

TRIAD C HAND AUGER_03-21-0940 HAND AUGERS.GPJ_03-12-0039 YALE DRIVE EXTENSION TEST PITS.GPJ_1/18/22



P:
F:

Remarks: Hand auger probe dry during and upon completion of augering. Densities are based on the results of the Wildcat DCP Testing corrected N' Value. Please see attached Wildcat DCP logs.

WILDCAT DYNAMIC CONE LOG

Triad Engineering, Inc.
 1075D Sherman Avenue
 Hagerstown, MD 21740

PROJECT NUMBER: 03-21-940
 DATE STARTED: 01-11-2022
 DATE COMPLETED: 01-11-2022

HOLE #: B-4
 CREW: ARK, TK
 PROJECT: 13 East Seminary Street
 ADDRESS: 13 East Seminary Street
 LOCATION: Mercersburg, Pennsylvania

SURFACE ELEVATION: N/A
 WATER ON COMPLETION: N/A
 HAMMER WEIGHT: 35 lbs.
 CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm ²	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		SAND & SILT	CLAY
-	18	79.9	.....				22	MEDIUM DENSE	VERY STIFF
-	13	57.7	.....				16	MEDIUM DENSE	VERY STIFF
- 1 ft	7	31.1	.....				8	LOOSE	MEDIUM STIFF
-	6	26.6	.....				7	LOOSE	MEDIUM STIFF
-	6	26.6	.....				7	LOOSE	MEDIUM STIFF
- 2 ft	7	31.1	.....				8	LOOSE	MEDIUM STIFF
-	6	26.6	.....				7	LOOSE	MEDIUM STIFF
-	7	31.1	.....				8	LOOSE	MEDIUM STIFF
- 3 ft	6	26.6	.....				7	LOOSE	MEDIUM STIFF
- 1 m	7	31.1	.....				8	LOOSE	MEDIUM STIFF
-	6	23.2	.....				6	LOOSE	MEDIUM STIFF
- 4 ft	5	19.3	.....				5	LOOSE	MEDIUM STIFF
-	7	27.0	.....				7	LOOSE	MEDIUM STIFF
-	6	23.2	.....				6	LOOSE	MEDIUM STIFF
- 5 ft	7	27.0	.....				7	LOOSE	MEDIUM STIFF
-	6	23.2	.....				6	LOOSE	MEDIUM STIFF
-	6	23.2	.....				6	LOOSE	MEDIUM STIFF
- 6 ft	5	19.3	.....				5	LOOSE	MEDIUM STIFF
-	5	19.3	.....				5	LOOSE	MEDIUM STIFF
- 2 m	Refusal	#VALUE!	#VALUE!				#####	#VALUE!	#VALUE!
- 7 ft									
- 8 ft									
- 9 ft									
- 3 m 10 ft									
- 11 ft									
- 12 ft									
- 4 m 13 ft									

WILDCAT DYNAMIC CONE LOG

Triad Engineering, Inc.
 1075D Sherman Avenue
 Hagerstown, MD 21740

PROJECT NUMBER: 03-21-940
 DATE STARTED: 01-11-2022
 DATE COMPLETED: 01-11-2022

HOLE #: B-5
 CREW: ARK, TK
 PROJECT: 13 East Seminary Street
 ADDRESS: 13 East Seminary Street
 LOCATION: Mercersburg, Pennsylvania

SURFACE ELEVATION: N/A
 WATER ON COMPLETION: N/A
 HAMMER WEIGHT: 35 lbs.
 CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm ²	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		SAND & SILT	CLAY
-	6	26.6	••••••				7	LOOSE	MEDIUM STIFF
-	6	26.6	••••••				7	LOOSE	MEDIUM STIFF
- 1 ft	6	26.6	••••••				7	LOOSE	MEDIUM STIFF
-	4	17.8	•••••				5	LOOSE	MEDIUM STIFF
-	3	13.3	•••				3	VERY LOOSE	SOFT
- 2 ft	1	4.4	•				1	VERY LOOSE	VERY SOFT
-	1	4.4	•				1	VERY LOOSE	VERY SOFT
-	1	4.4	•				1	VERY LOOSE	VERY SOFT
- 3 ft	1	4.4	•				1	VERY LOOSE	VERY SOFT
- 1 m	1	4.4	•				1	VERY LOOSE	VERY SOFT
-	2	7.7	••				2	VERY LOOSE	SOFT
- 4 ft	5	19.3	•••••				5	LOOSE	MEDIUM STIFF
-	3	11.6	•••				3	VERY LOOSE	SOFT
-	3	11.6	•••				3	VERY LOOSE	SOFT
- 5 ft	2	7.7	••				2	VERY LOOSE	SOFT
-	Refusal	#VALUE!		#VALUE!			#####	#VALUE!	#VALUE!
- 6 ft									
- 2 m									
- 7 ft									
- 8 ft									
- 9 ft									
- 3 m 10 ft									
- 11 ft									
- 12 ft									
- 4 m 13 ft									

WILDCAT DYNAMIC CONE LOG

Triad Engineering, Inc.
 1075D Sherman Avenue
 Hagerstown, MD 21740

PROJECT NUMBER: 03-21-940
 DATE STARTED: 01-11-2022
 DATE COMPLETED: 01-11-2022

HOLE #: B-7
 CREW: ARK, TK
 PROJECT: 13 East Seminary Street
 ADDRESS: 13 East Seminary Street
 LOCATION: Mercersburg, Pennsylvania

SURFACE ELEVATION: N/A
 WATER ON COMPLETION: N/A
 HAMMER WEIGHT: 35 lbs.
 CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm ²	GRAPH OF CONE RESISTANCE 0 50 100 150	N'	TESTED CONSISTENCY	
					SAND & SILT	CLAY
-	16	71.0	.....	20	MEDIUM DENSE	VERY STIFF
-	19	84.4	.....	24	MEDIUM DENSE	VERY STIFF
- 1 ft	Deflection	#VALUE!	#VALUE!	#####	#VALUE!	#VALUE!
-						
-	2 ft					
-						
-	3 ft					
- 1 m						
-	4 ft					
-						
-	5 ft					
-						
-	6 ft					
- 2 m						
-	7 ft					
-						
-	8 ft					
-						
-	9 ft					
-						
- 3 m	10 ft					
-						
-	11 ft					
-						
-	12 ft					
-						
- 4 m	13 ft					

WILDCAT DYNAMIC CONE LOG

Triad Engineering, Inc.
1075D Sherman Avenue
Hagerstown, MD 21740

PROJECT NUMBER: 03-21-940
DATE STARTED: 01-11-2022
DATE COMPLETED: 01-11-2022

HOLE #: B-8
CREW: ARK, TK
PROJECT: 13 East Seminary Street
ADDRESS: 13 East Seminary Street
LOCATION: Mercersburg, Pennsylvania

SURFACE ELEVATION: N/A
WATER ON COMPLETION: N/A
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm ²	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		SAND & SILT	CLAY
-	3	13.3	...				3	VERY LOOSE	SOFT
-	5	22.2	.....				6	LOOSE	MEDIUM STIFF
- 1 ft	7	31.1	.....				8	LOOSE	MEDIUM STIFF
-	5	22.2	.....				6	LOOSE	MEDIUM STIFF
-	6	26.6	.....				7	LOOSE	MEDIUM STIFF
- 2 ft	5	22.2	.....				6	LOOSE	MEDIUM STIFF
-	5	22.2	.....				6	LOOSE	MEDIUM STIFF
-	10	44.4	.....				12	MEDIUM DENSE	STIFF
- 3 ft	10	44.4	.....				12	MEDIUM DENSE	STIFF
- 1 m	8	35.5	.....				10	LOOSE	STIFF
-	10	38.6	.....				11	MEDIUM DENSE	STIFF
- 4 ft	10	38.6	.....				11	MEDIUM DENSE	STIFF
-	13	50.2	.....				14	MEDIUM DENSE	STIFF
-	6	23.2	.....				6	LOOSE	MEDIUM STIFF
- 5 ft	6	23.2	.....				6	LOOSE	MEDIUM STIFF
-	Refusal	#VALUE!		#VALUE!			#####	#VALUE!	#VALUE!
-	6 ft								
- 2 m	7 ft								
-	8 ft								
-	9 ft								
- 3 m	10 ft								
-	11 ft								
-	12 ft								
- 4 m	13 ft								

WILDCAT DYNAMIC CONE LOG

Triad Engineering, Inc.
1075D Sherman Avenue
Hagerstown, MD 21740

PROJECT NUMBER: 03-21-940
DATE STARTED: 01-11-2022
DATE COMPLETED: 01-11-2022

HOLE #: B-9
CREW: ARK, TK
PROJECT: 13 East Seminary Street
ADDRESS: 13 East Seminary Street
LOCATION: Mercersburg, Pennsylvania

SURFACE ELEVATION: N/A
WATER ON COMPLETION: N/A
HAMMER WEIGHT: 35 lbs.
CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm ²	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		SAND & SILT	CLAY
-	9	40.0	.....				11	MEDIUM DENSE	STIFF
-	18	79.9	.....				22	MEDIUM DENSE	VERY STIFF
- 1 ft	16	71.0	.....				20	MEDIUM DENSE	VERY STIFF
-	6	26.6	.....				7	LOOSE	MEDIUM STIFF
-	2	8.9	..				2	VERY LOOSE	SOFT
- 2 ft	2	8.9	..				2	VERY LOOSE	SOFT
-	3	13.3	...				3	VERY LOOSE	SOFT
-	3	13.3	...				3	VERY LOOSE	SOFT
- 3 ft	6	26.6	.....				7	LOOSE	MEDIUM STIFF
- 1 m	9	40.0	.....				11	MEDIUM DENSE	STIFF
-	9	34.7	.....				9	LOOSE	STIFF
- 4 ft	8	30.9	.....				8	LOOSE	MEDIUM STIFF
-	11	42.5	.....				12	MEDIUM DENSE	STIFF
-	10	38.6	.....				11	MEDIUM DENSE	STIFF
- 5 ft	7	27.0	.....				7	LOOSE	MEDIUM STIFF
-	Refusal	#VALUE!		#VALUE!			#####	#VALUE!	#VALUE!
- 6 ft									
- 2 m									
- 7 ft									
- 8 ft									
- 9 ft									
- 3 m 10 ft									
- 11 ft									
- 12 ft									
- 4 m 13 ft									

WILDCAT DYNAMIC CONE LOG

Triad Engineering, Inc.
 1075D Sherman Avenue
 Hagerstown, MD 21740

PROJECT NUMBER: 03-21-940
 DATE STARTED: 01-11-2022
 DATE COMPLETED: 01-11-2022

HOLE #: B-10
 CREW: ARK, TK
 PROJECT: 13 East Seminary Street
 ADDRESS: 13 East Seminary Street
 LOCATION: Mercersburg, Pennsylvania

SURFACE ELEVATION: N/A
 WATER ON COMPLETION: N/A
 HAMMER WEIGHT: 35 lbs.
 CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm ²	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		SAND & SILT	CLAY
-	6	26.6	.....				7	LOOSE	MEDIUM STIFF
-	Refusal	#VALUE!		#VALUE!			#####	#VALUE!	#VALUE!
- 1 ft									
-									
- 2 ft									
-									
- 3 ft									
- 1 m									
- 4 ft									
-									
- 5 ft									
-									
- 6 ft									
- 2 m									
- 7 ft									
-									
- 8 ft									
-									
- 9 ft									
-									
- 3 m 10 ft									
-									
- 11 ft									
-									
- 12 ft									
-									
- 4 m 13 ft									

WILDCAT DYNAMIC CONE LOG

Triad Engineering, Inc.
 1075D Sherman Avenue
 Hagerstown, MD 21740

PROJECT NUMBER: 03-21-940
 DATE STARTED: 01-12-2022
 DATE COMPLETED: 01-12-2022

HOLE #: B-11
 CREW: ARK, TK
 PROJECT: 13 East Seminary Street
 ADDRESS: 13 East Seminary Street
 LOCATION: Mercersburg, Pennsylvania

SURFACE ELEVATION: 8" below surface
 WATER ON COMPLETION: N/A
 HAMMER WEIGHT: 35 lbs.
 CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm ²	GRAPH OF CONE RESISTANCE				TESTED CONSISTENCY		
			0	50	100	150	N'	SAND & SILT	CLAY
-	6	26.6	.....				7	LOOSE	MEDIUM STIFF
-	Refusal	#VALUE!		#VALUE!			#####	#VALUE!	#VALUE!
- 1 ft									
-									
- 2 ft									
-									
- 3 ft									
- 1 m									
- 4 ft									
-									
- 5 ft									
-									
- 6 ft									
- 2 m									
- 7 ft									
-									
- 8 ft									
-									
- 9 ft									
-									
- 3 m 10 ft									
-									
- 11 ft									
-									
- 12 ft									
-									
- 4 m 13 ft									

WILDCAT DYNAMIC CONE LOG

Triad Engineering, Inc.
 1075D Sherman Avenue
 Hagerstown, MD 21740

PROJECT NUMBER: 03-21-940
 DATE STARTED: 01-12-2022
 DATE COMPLETED: 01-12-2022

HOLE #: B-18
 CREW: ARK, TK
 PROJECT: 13 East Seminary Street
 ADDRESS: 13 East Seminary Street
 LOCATION: Mercersburg, Pennsylvania

SURFACE ELEVATION: Below Slab
 WATER ON COMPLETION: N/A
 HAMMER WEIGHT: 35 lbs.
 CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm ²	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		SAND & SILT	CLAY
-	5	22.2	.....				6	LOOSE	MEDIUM STIFF
-	12	53.3	.....				15	MEDIUM DENSE	STIFF
- 1 ft	12	53.3	.....				15	MEDIUM DENSE	STIFF
-	9	40.0	.....				11	MEDIUM DENSE	STIFF
-	10	44.4	.....				12	MEDIUM DENSE	STIFF
- 2 ft	9	40.0	.....				11	MEDIUM DENSE	STIFF
-	13	57.7	.....				16	MEDIUM DENSE	VERY STIFF
-	16	71.0	.....				20	MEDIUM DENSE	VERY STIFF
- 3 ft	18	79.9	.....				22	MEDIUM DENSE	VERY STIFF
- 1 m	21	93.2	.....				-	MEDIUM DENSE	VERY STIFF
-	28	108.1	.....				-	MEDIUM DENSE	VERY STIFF
- 4 ft	33	127.4	.....				-	DENSE	HARD
-	33	127.4	.....				-	DENSE	HARD
-	31	119.7	.....				-	DENSE	HARD
- 5 ft	27	104.2	.....				-	MEDIUM DENSE	VERY STIFF
-	35	135.1	.....				-	DENSE	HARD
-	43	166.0	.....				-	DENSE	HARD
- 6 ft	45	173.7	.....				-	DENSE	HARD
-	42	162.1	.....				-	DENSE	HARD
- 2 m	50	193.0	.....				-	VERY DENSE	HARD
- 7 ft									
- 8 ft									
- 9 ft									
- 3 m 10 ft									
- 11 ft									
- 12 ft									
- 4 m 13 ft									

WILDCAT DYNAMIC CONE LOG

Triad Engineering, Inc.
 1075D Sherman Avenue
 Hagerstown, MD 21740

PROJECT NUMBER: 03-21-940
 DATE STARTED: 01-12-2022
 DATE COMPLETED: 01-12-2022

HOLE #: B-19
 CREW: ARK, TK
 PROJECT: 13 East Seminary Street
 ADDRESS: 13 East Seminary Street
 LOCATION: Mercersburg, Pennsylvania

SURFACE ELEVATION: Below Slab
 WATER ON COMPLETION: N/A
 HAMMER WEIGHT: 35 lbs.
 CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm ²	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		SAND & SILT	CLAY
-	8	35.5	●●●●●●				10	LOOSE	STIFF
-	15	66.6	●●●●●●●●				19	MEDIUM DENSE	VERY STIFF
1 ft	11	48.8	●●●●●●				13	MEDIUM DENSE	STIFF
-	13	57.7	●●●●●●				16	MEDIUM DENSE	VERY STIFF
-	17	75.5	●●●●●●●				21	MEDIUM DENSE	VERY STIFF
2 ft	24	106.6	●●●●●●●●				-	MEDIUM DENSE	VERY STIFF
-	31	137.6	●●●●●●●●●				-	DENSE	HARD
-	15	66.6	●●●●●●				19	MEDIUM DENSE	VERY STIFF
3 ft	22	97.7	●●●●●●●				-	MEDIUM DENSE	VERY STIFF
1 m	13	57.7	●●●●●●				16	MEDIUM DENSE	VERY STIFF
-	15	57.9	●●●●●●				16	MEDIUM DENSE	VERY STIFF
4 ft	17	65.6	●●●●●●				18	MEDIUM DENSE	VERY STIFF
-	15	57.9	●●●●●●				16	MEDIUM DENSE	VERY STIFF
-	12	46.3	●●●●●●				13	MEDIUM DENSE	STIFF
5 ft	7	27.0	●●●●				7	LOOSE	MEDIUM STIFF
-	6	23.2	●●●●				6	LOOSE	MEDIUM STIFF
-	7	27.0	●●●●				7	LOOSE	MEDIUM STIFF
6 ft	6	23.2	●●●●				6	LOOSE	MEDIUM STIFF
-	7	27.0	●●●●				7	LOOSE	MEDIUM STIFF
2 m	9	34.7	●●●●●				9	LOOSE	STIFF
7 ft	8	27.4	●●●●				7	LOOSE	MEDIUM STIFF
-	12	41.0	●●●●●				11	MEDIUM DENSE	STIFF
-	6	20.5	●●●●				5	LOOSE	MEDIUM STIFF
8 ft	4	13.7	●●				3	VERY LOOSE	SOFT
-	4	13.7	●●				3	VERY LOOSE	SOFT
-	5	17.1	●●●				4	VERY LOOSE	SOFT
9 ft	4	13.7	●●				3	VERY LOOSE	SOFT
-	3	10.3	●●				2	VERY LOOSE	SOFT
-	6	20.5	●●●●				5	LOOSE	MEDIUM STIFF
3 m	10 ft	13.7	●●				3	VERY LOOSE	SOFT
-	4	12.2	●●				3	VERY LOOSE	SOFT
-									
-	11 ft								
-	12 ft								
4 m	13 ft								

WILDCAT DYNAMIC CONE LOG

Triad Engineering, Inc.
 1075D Sherman Avenue
 Hagerstown, MD 21740

PROJECT NUMBER: 03-21-940
 DATE STARTED: 01-12-2022
 DATE COMPLETED: 01-12-2022

HOLE #: B-23
 CREW: ARK, TK
 PROJECT: 13 East Seminary Street
 ADDRESS: 13 East Seminary Street
 LOCATION: Mercersburg, Pennsylvania

SURFACE ELEVATION: Below Slab
 WATER ON COMPLETION: N/A
 HAMMER WEIGHT: 35 lbs.
 CONE AREA: 10 sq. cm

DEPTH	BLOWS PER 10 cm	RESISTANCE Kg/cm ²	GRAPH OF CONE RESISTANCE				N'	TESTED CONSISTENCY	
			0	50	100	150		SAND & SILT	CLAY
-	12	53.3	.....				15	MEDIUM DENSE	STIFF
-	17	75.5	.....				21	MEDIUM DENSE	VERY STIFF
- 1 ft	13	57.7	.....				16	MEDIUM DENSE	VERY STIFF
-	4	17.8	....				5	LOOSE	MEDIUM STIFF
-	3	13.3	...				3	VERY LOOSE	SOFT
- 2 ft	3	13.3	...				3	VERY LOOSE	SOFT
-	6	26.6	.....				7	LOOSE	MEDIUM STIFF
-	12	53.3	.....				15	MEDIUM DENSE	STIFF
- 3 ft	8	35.5	.....				10	LOOSE	STIFF
- 1 m	10	44.4	.....				12	MEDIUM DENSE	STIFF
-	8	30.9	.....				8	LOOSE	MEDIUM STIFF
- 4 ft	6	23.2	.....				6	LOOSE	MEDIUM STIFF
-	5	19.3	.....				5	LOOSE	MEDIUM STIFF
-	6	23.2	.....				6	LOOSE	MEDIUM STIFF
- 5 ft	8	30.9	.....				8	LOOSE	MEDIUM STIFF
-	8	30.9	.....				8	LOOSE	MEDIUM STIFF
- 6 ft	Refusal	#VALUE!		#VALUE!			#####	#VALUE!	#VALUE!
- 2 m									
- 7 ft									
- 8 ft									
- 9 ft									
- 3 m 10 ft									
- 11 ft									
- 12 ft									
- 4 m 13 ft									