

FAIRFIELD COUNTY COMMISSIONERS
210 East Main Street
Lancaster, OH 43130

INVITATION TO BID

Pursuant to ORC 307.86

1. NOTICE TO BIDDERS

1.1 Purpose

The Fairfield County Commissioners are requesting sealed bids for the construction of a new Equipment Storage Building, along with some associated sitework, to be located at 240 Baldwin Drive, Lancaster, Ohio, 43130.

1.2 Estimated Key Dates

The following are the estimated key dates associated with the ITB process. Bids received after 9:00 a.m. EDT on the Bid Due Date (as defined below) will not be considered.

PUBLICATION DATE:	Thursday, September 28, 2017
INQUIRY PERIOD BEGINS:	Tuesday, October 3, 2017, 8:00 a.m. EDT
PRE-BID MEETING @ SITE	Thursday, October 12, 2017, 10:00 a.m. EDT
INQUIRY PERIOD ENDS:	Monday, October 16, 2017, 4:00 p.m., EDT
BID DUE DATE:	Friday, October 20, 2017, 9:00 a.m., EDT
BID OPENING DATE:	Friday, October 20, 2017, 9:15 a.m., EDT

There are references in this ITB to the Bid Due Date, which shall mean the date, and time that the Offeror's bid response is due at the Fairfield County Commissioners office in Lancaster, Ohio. Sealed Bids received after 9:00 A.M. on the Due Date will not be evaluated. Each bid must be submitted in a sealed envelope and marked on the outside as "CONSTRUCTION OF AN EQUIPMENT STORAGE BUILDING".

The Fairfield County Commissioners reserve the right to reject any or all bids in response to this ITB, and to waive any irregularities, nonconformities, or noncompliance with the terms of this ITB.

1.3 Additional Estimated Dates

CONTRACT AWARD NOTIFICATION:	Tuesday, October 24, 2017
PURCHASE ORDER ISSUED:	Wednesday, October 25, 2017
CONTRACT NOTICE TO PROCEED DATE:	Tuesday October 31, 2017
BUILDING COMPLETION DATE & OWNER OCCUPANCY:	February 28, 2018
FINAL CONTRACT COMPLETION DATE:	May 29, 2018

1.4 Location for Bid Response Opening

The following is the site for the public opening of Offeror's bid response(s).

**Fairfield County Commissioners
Third (3rd) Floor Hearing Room
210 East Main Street
Lancaster, OH 43130**

2 EXECUTIVE SUMMARY

2.1 Purpose

This document is a request for bids to construct an EQUIPMENT STORAGE BUILDING, AND PERFORM ASSOCIATED SITEWORK under Section 307.86 of the Ohio Revised Code. The Work is to be performed in accordance with the plans and specifications prepared by VPL Architects, Inc., dated 9/25/17 and this Invitation to Bid document. The Fairfield County Commissioners are soliciting competitive, sealed bids for the described work located in the downtown Lancaster, Ohio area. If a suitable offer is made in response to this Invitation to Bid (ITB), the Fairfield County Commissioners may enter into a contract to have the selected Offeror (the "Contractor") provide the described work.

Upon selecting the lowest and best bid, the Fairfield County Commissioners shall enter into a Contract with such person or entity in accordance with Revised Code Section 307.86. A contract for the described work shall be prepared by the Fairfield County Commissioners and submitted to the selected Offeror. This ITB provides details on what is required to submit a Bid for the Work, and what will be required of the Contractor in providing the described work. As used herein, the term "the Fairfield County Commissioners" shall also include any of their employees, agents, or representatives.

This ITB also gives the estimated key dates for the various events that are part of the submission process, selection process, and work commencement. While these dates are subject to change, the Fairfield County Commissioners will make efforts to adhere to the dates contained herein. Once a contract is awarded, the described work must be completed by the completion date agreed upon by the Fairfield County Commissioners and the Contractor.

2.2 Objectives

The purpose of this Invitation to Bid (ITB) is to solicit bids that fulfill the requirements, performance expectations, and deliverables as outlined in the Scope of Work and General Conditions Specifications (see Section 4). It shall be the successful Bidder's obligation to ensure that their personnel providing any work or services in accordance with this ITB are qualified to perform such work or services.

2.3 Calendar of Events

Significant dates in connection with this ITB are shown above and are subject to change. The Fairfield County Commissioners may change any one or more of the key dates at any time, however significant schedule changes before the Inquiry Period Begins are not expected. If schedule changes

occur after the Inquiry Period Begins, all participants will be notified via email. Any such email announcements shall be considered as an addendum(s) to this ITB. It will be the responsibility of the prospective Offerors to notify the County that they intend to bid upon downloading bid documents, and to check his/her email on a regular basis for posted addendums, changes and other ITB information.

A mandatory Pre-Bid Conference will be held at the project site on Thursday, October 12, 2017 at 10:00 AM, which all prospective bidders are required to attend.

3 INSTRUCTIONS TO BIDDERS

3.1 Purpose

The following sections provide details on how to respond to this Invitation to Bid (ITB). All responses must be complete and in the prescribed format subject to the right of the Fairfield County Commissioners to waive any irregularities, nonconformities, or noncompliance with the terms of this ITB as set forth above.

3.2 Contacts

The following individual will be the representative of the Fairfield County Commissioners who may be contacted in connection with this Invitation to Bid (ITB).

Dennis R. Keller
Facilities Manager
740-652-7097
drkeller@co.fairfield.oh.us

The following individual will be the representative of VPL Architects, Inc., who is the design professional and author of the plans and technical specifications for this project.

Steve Luchtenberg, Project Architect
VPL Architects, Inc
740-654-4048
sml.vplarch@sbcglobal.net

Bidders may obtain complete sets of the Invitation to Bid document posted on the Fairfield County website at: www.co.fairfield.oh.us , available for downloading by the bidder. Prospective bidders must notify Dennis R. Keller, Facilities Manager, of their intention to bid when downloading documents electronically, and provide their contact information to Dennis R. Keller. A complete set of the Invitation to Bid (ITB) document will also be available at the office of the Fairfield County Board of Commissioners, 210 East Main Street, Third Floor, 210 East Main Street, Lancaster, Ohio 43130.

3.3 Inquiries

Bidders may make inquiries regarding this ITB any time prior to the conclusion of the Inquiry Period set forth above in the Estimated Key Dates. Bidders must use email to make their inquiries. All inquiries must be addressed to and sent to Dennis R. Keller : dennis.keller@fairfieldcountyohio.gov The submission of oral, telephonic, facsimile or telegraphic inquiries **will not** be accepted.

3.4 Preparation of Bid

- 3.4.1** Submit a bid amount on the original Bid Form furnished by the Fairfield County Commissioners, in this document.
- 3.4.2** Sign Bid Form with name printed below signature.
- 3.4.3** All bids submitted by an agent shall have a current power of attorney attached certifying the agent's authority to bind the party responding to the ITB.
- 3.4.4** Oral, telephonic, facsimile or telegraphic bids in response to this ITB will not be accepted.
- 3.4.5** Provide all the required attachments to the Bid Form as follows:
 - A) Non-Collusion Affidavit
 - B) EEO Certification
 - C) Affidavit of Property Tax Liability
 - D) Drug-Free Work Place
 - E) Contractor References and Contact Information: The bidder shall provide references to the Owner for three (3) similar projects successfully completed including contact information.
- 3.4.6** Submit sealed bids in an opaque envelope plainly marked on the outside with the project title "BID FOR CONSTRUCTION OF EQUIPMENT STORAGE BUILDING", bid date and time, and name of the Offeror.
- 3.4.7** If the bid is mailed, the sealed bid shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face of the bid envelope.
- 3.4.8** Mailing and delivery address is:
FAIRFIELD COUNTY BOARD OF COMMISSIONERS
Third Floor
210 East Main Street
Lancaster, Ohio 43130
- 3.4.9** Bidders shall be solely responsible for the timely delivery of their bid in response to this ITB in the manner and time prescribed. No bid shall be considered if it arrives after the time scheduled, as determined by the Fairfield County Commissioners.
- 3.4.10** Bids in response to this ITB that are unsigned, improperly prepared, contain arithmetical errors, alterations or irregularities of any kind, may, at the Fairfield County Commissioners discretion be declared unacceptable.
- 3.4.11** Bid Security: Each bid must be accompanied by cash, certified check of the bidder, or a bid bond prepared on the form of bid bond, Ohio Revised Code Section 153.54(C), duly executed by the bidder as principal and having as surety thereon a surety company approved by the Owner, in the amount of at least 10% of the bid. Such cash, checks, or bid bonds will be returned to all except the three lowest bidders within three days after the opening of bids, and the remaining cash, checks, or bid bonds will be returned promptly after the Owner and the accepted bidder have executed the Contract; or if no award has been made within thirty (30) days after the date of the opening of bids, upon demand of the bidder at

any time thereafter, so long as he/she has not been notified of the acceptance of his/her bid. Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their Power of Attorney.

3.5 Contractor Pre-Qualification Verification Requirements

3.5.1 Qualified contractors will be required to submit the following documents before entering into a contract with the Fairfield County Commissioners:

- 1) A completed W-9 Tax Form (if not on file)
- 2) A copy of your Workers Compensation Certificate
- 3) Any required licenses and identification numbers
- 4) Liability Insurance Certificates as follows:

Commercial General Liability: Minimum \$1,000,000 per occurrence
Minimum \$1,000,000 aggregate

Auto Liability: Minimum \$1,000,000 per occurrence
Minimum \$1,000,000 aggregate

Umbrella/Excessive Liability: Minimum \$3,000,000 per occurrence

3.6 Laws and Regulations

3.6.1 The bidder's attention is directed to the fact that all applicable State laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over this project shall apply to this contract.

3.7 Occupational Safety and Health Administration

3.7.1 Special attention by the bidders is also directed to the requirements of OSHA. The successful contractor will be required to observe all provisions of the Act, which are by reference included in the specified provisions of these specifications as if actually reproduced herein, and will be responsible for their full enforcement.

3.8 Award of Contract

3.8.1 The contract, if let, will be awarded to the lowest and best bid. In determining the awardee the following elements may be considered: whether the bidder maintains a permanent place of business; has adequate personnel and equipment to do the work safely, properly, and expeditiously; has suitable financial base to meet the obligations incidental to the work; has appropriate experience; has completed all items on the Bid Form; and has inserted no qualifying phrases or unbalanced items on the bid.

3.8.2 The Fairfield County Commissioners reserve the right to reject any and all bids in response to this ITB, and to waive any irregularities, nonconformities, or noncompliance with the terms of this ITB.

3.8.3 The bidder must be skilled in the use and interpretation of plans and specifications for this project, and has found them free of ambiguities and sufficient for bidding purposes. Further, he/she has carefully examined the site of the work and from his/her own observations, is satisfied as to the nature and location of the work, the character, and the

quality of the materials and the difficulties likely to be encountered, and other items, which may affect the performance of the work. He/she has based the bid solely on these documents, including any addenda and observations, and has not relied in any way on any explanation or interpretation, oral or written, from any other source. Therefore, the bidder agrees to hold the Fairfield County Commissioners harmless for his/her negligence, error, or omissions.

- 3.8.4 The Fairfield County Commissioners may consider any bids not prepared and submitted in accordance with the provisions hereof and may waive any formalities or irregularities in the bids submitted.

3.9 Time of Completion and Liquidated Damages

- 3.9.1 The final contract completion date shall be **240 calendar days** from the date of Notice to Proceed, to final close-out documents and a final payment request is submitted.
- 3.9.2 The substantial completion date for the building occupancy by the Owner, and all other associated site work, except the final seeding of the lawns, shall be **120 calendar days** from the date of Notice to Proceed.
- 3.9.2 Liquidated damages will be assessed at a rate of \$500 per day to the contractor for late completion and occupancy of the building by the Owner, unless an approved contract extension is granted.

3.10 Payment Applications and Changes to the Work

- 3.10.1 Full payment shall be made upon satisfactory completion of the work, and all contract close-out requirements are met. If partial payment applications are requested, they shall be submitted on a monthly basis and shall be at a “percentage of work completed basis” for the various categories of work.
- 3.10.2 Payment requests must be submitted on the approved Schedule of Values, using the AIA G702 Application and Certificate for Payment form. The Schedule of Values must be approved prior to the first payment request.
- 3.10.3 Retainage: An amount of eight percent (8%) is to be withheld on monthly payments, and will be retained by the Owner until completion of the Contract as a guarantee that the Contractor will faithfully perform and completely fulfill the obligations and conditions imposed by this Contract, and will pay any damages caused the Owner by reason of any failure on his part to fulfill any or all of said obligations or conditions.
- 3.10.4 All changes to the Work involving a change in contract amount must be approved in advance by the Owner. The contractor will be required to submit a detailed labor and materials pricing breakdown for the change in contract scope for approval by the Owner and Architect. Change Orders will be authorized on a form designated by the Owner.

3.11 Contract Termination

- 3.11.1 Upon written notice to the contractor, the County may, without cause and without prejudice to any other right or remedy, elect to terminate the Contract. In such case, the Contractor shall be paid for all work executed and any expense sustained plus reasonable profit, unless such termination was due to the act or conduct of the Contractor.

3.12 Prevailing Wage

- 3.12.1** State Prevailing Wages shall be paid by the Contractor, and the Contractor shall comply with all administrative regulations required by the State of Ohio, Department of Commerce, Wage and Hour Administration.
- 3.12.2** Refer to the attached Prevailing Wage Rates applicable to this project, and to all other associated documents for prevailing wage compliance.

4 GENERAL CONDITIONS AND SCOPE OF WORK

- 4.1 Scope of Work:** The purpose of this Invitation to Bid (ITB) is to obtain bids for complete construction of a new Equipment Storage Building, along with some associated sitework. The project is to be located at 240 Baldwin Drive, Lancaster, Ohio, 43130.
- 4.2** The Contractor shall provide complete construction of the new building, including all final construction and occupancy inspection approvals, ready for use by the County. The new wood post-frame building structure is approximately 10,000 SF in footprint size, and includes all associated site work indicated on the construction drawings, as the Basis of Design.
- 4.3 Bid Alternate:** Bidders may propose a metal-framed building structure in lieu of the wood framed building structure and must list that cost separately on the bid form. All associated structural design revisions necessary for a comparable metal building structure must be provided by the bidder and submitted to VPL Architects for review and approval.
- 4.4** The Owner shall obtain and pay for plan approval as required for State of Ohio building permits. Contractor shall obtain and pay for all other required permits, and provide any required notices as necessary to perform the work.
- 4.5** The Contractor must provide a field office and storage trailer on-site as necessary for the work, with temporary power, portable sanitation facilities, and all necessary temporary utilities.
- 4.6** The Contractor shall provide temporary construction fencing as indicated on the contract drawings.
- 4.7** The Contractor will be required to host a bi-weekly construction progress meeting at the jobsite field office, to be held on alternating Thursdays. The time will be agreed upon with the Owner.
- 4.8** Demolition and removal of all existing debris and spoils from the site is the responsibility of the contractor, and must be performed in a timely manner. The project site must be maintained in a clean and organized manner.
- 4.9** Provide all necessary traffic signage and lane closure barriers for Baldwin Drive and the sidewalk as required per City of Lancaster, Division of Transportation requirements. Submit a Maintenance of Traffic plan, if required, to the City.
- 4.10** The contractor is required to maintain all public streets that are being used for trucking access to and from the site, in a clean condition.
- 4.11** Provide dust control during construction activities to meet City and EPA requirements.

- 4.12 The Contractor must provide submittals of product literature and installation drawings for all items to be incorporated into the final Work, to the Architect for review and approval prior to installation.
- 4.13 A subsurface soils investigation report of the building site was prepared by Geotechnical Consultants, Inc., and is included in this bid document for reference by the bidder.

5. ADDITIONAL REQUIREMENTS

In addition to any other requirements herein, the Contractor shall comply with the requirements listed below:

- a. General requirements
- b. Coordination
- c. Security
- d. Fire safety
- e. Hazardous materials
- f. Cleaning
- g. Storage space use

5.1 General Requirements

- 5.1.1 The Contractor shall comply with all applicable ordinances, laws, and regulations. The Contractor shall obtain and pay for any and all required permits and inspections as needed.
- 5.1.2 The Contractor will remove from the site, as required, any existing materials resulting from excavation or demolition at the building site.
- 5.1.3 The Contractor shall provide a Liability Insurance Certificate, and Workers Compensation Certificate to the County prior to the start of work.

5.2 Schedule and Coordination

- 5.2.1 The Contractor shall coordinate all construction activities with the authorized representative of the Fairfield County Commissioners and with the Architect, and provide a written schedule of the work. The Project Schedule must be submitted and approved prior to the first payment application.

5.3 Security

- 5.3.1 The Contractor shall maintain security of the project site and its contents at all times during the term of the contract and any extensions thereto.

5.4 Fire Safety

- 5.4.1 The Contractor shall comply with all local fire safety requirements.
- 5.4.2 The Contractor shall provide adequate fire extinguishing equipment at all interior work areas requiring welding, soldering, or cutting with flame torches.
- 5.4.3 The Contractor shall take every precaution to prevent fires.

5.5 Hazardous Materials

- 5.5.1** The Contractor is cautioned to check the premises where the new structure is to be located for the existence of hazardous materials during the progress of the work.
- 5.5.2** In the event materials are encountered during the work which may present a health hazard to workers, occupants, or the public, the Contractor shall take the following actions:
 - a. Take immediate action to limit the exposure or hazardous condition.
 - b. Cease work in the area until suspected hazardous material can be identified.
 - c. Notify the Fairfield County representative of the condition. Such notification shall be made by the most expedient means with subsequent written confirmation.
- 5.5.3** Testing, identification, removal, or other processes to render hazardous materials safe within legal limits is to be provided by the Contractor, upon approval by the Owner.

5.6 Final Clean-Up

- 5.6.1** The Contractor shall perform periodic cleaning during the term of this agreement and maintain all surrounding areas in clean condition.
- 5.6.2** Upon final completion of the work, the Contractor shall perform sweeping of the roadway and surrounding parking areas to remove all dirt, mud, or debris.

CONTRACT FORM A
Fairfield County Commissioners
CONSTRUCTION OF
EQUIPMENT STORAGE BUILDING

BID FORM

Bids Must be submitted on this form only. (Type or Print Clearly)

Prevailing Wage rates apply.

ITEM 1 - BASE BID WORK (Wood Frame Structure):

1A. General Trades Work Amount (labor & materials) \$ _____

Contractor Name: _____

1B. HVAC Subcontractor Amount (labor & materials) \$ _____

Subcontractor Name: _____

1C. Plumbing Subcontractor Amount (labor & materials) \$ _____

Subcontractor Name: _____

1D. Electrical Subcontractor Amount (labor & materials) \$ _____

Total Combined Base Bid Amount: \$ _____

ITEM 2 - ALTERNATE BID WORK (Metal Frame Structure):

2A. General Trades Work Amount (labor & materials) \$ _____

Contractor Name: _____

2B. HVAC Subcontractor Amount (labor & materials) \$ _____

Subcontractor Name: _____

2C. Plumbing Subcontractor Amount (labor & materials) \$ _____

Subcontractor Name: _____

2D. Electrical Subcontractor Amount (labor & materials) \$ _____

Subcontractor Name: _____

Total Combined Alternate Bid Amount: \$ _____

Acknowledgement of Addenda Received: (List all Addendum numbers and date)

Addendum # _____ Date: _____

Addendum # _____ Date: _____

Addendum # _____ Date: _____

Having carefully read and examined the entire set of Construction Documents, including without limitation the Drawings, Specifications and all Addenda (listed above) prepared by the Architect for the above referenced Project; **and** with a clear understanding of the delineation between Base Bid and Alternate Bid work; **and** having visited and examined the site, premises, and the conditions affecting the work, the undersigned Bidder proposes to perform all Work, furnish all labor, materials and equipment for this Project in strict compliance with the Construction Documents for the sums indicated above.

Note: The breakdown of this combined bid as indicated above is requested for the purpose of assisting the Owner in evaluating the bids received. **In order for your bid to be accepted, all blanks must be filled.**

Signed By Bidder: _____

Date: _____

Printed Name: _____

Title: _____

Company Name: _____

Address: _____

Phone: _____

Prevailing Wage Rate Skilled Crafts

Name of Union: Carpenter Millwright Local 1090 Columbus

Change # : LCN01-2017fbLoc1241

Craft : Carpenter Effective Date : 05/02/2017 Last Posted : 05/02/2017

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Carpenter Millwright	\$29.80		\$6.57	\$7.99	\$0.36	\$0.00	\$5.05	\$0.10	\$0.00	\$0.00	\$49.87	\$64.77
Apprentice	Percent											
1st 6 months	60.00	\$17.88	\$6.57	\$7.99	\$0.36	\$0.00	\$5.05	\$0.10	\$0.00	\$0.00	\$37.95	\$46.89
2nd 6 months	65.00	\$19.37	\$6.57	\$7.99	\$0.36	\$0.00	\$5.05	\$0.10	\$0.00	\$0.00	\$39.44	\$49.13
3rd 6 months	70.00	\$20.86	\$6.57	\$7.99	\$0.36	\$0.00	\$5.05	\$0.10	\$0.00	\$0.00	\$40.93	\$51.36
4th 6 months	75.00	\$22.35	\$6.57	\$7.99	\$0.36	\$0.00	\$5.05	\$0.10	\$0.00	\$0.00	\$42.42	\$53.60
5th 6 months	80.00	\$23.84	\$6.57	\$7.99	\$0.36	\$0.00	\$5.05	\$0.10	\$0.00	\$0.00	\$43.91	\$55.83
6th 6 months	85.00	\$25.33	\$6.57	\$7.99	\$0.36	\$0.00	\$5.05	\$0.10	\$0.00	\$0.00	\$45.40	\$58.07
7th 6 months	90.00	\$26.82	\$6.57	\$7.99	\$0.36	\$0.00	\$5.05	\$0.10	\$0.00	\$0.00	\$46.89	\$60.30
8th 6 months	95.00	\$28.31	\$6.57	\$7.99	\$0.36	\$0.00	\$5.05	\$0.10	\$0.00	\$0.00	\$48.38	\$62.53

Special Calculation Note : \$.10 Other is for Industry and Millwright Fund.

Ratio :
3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, LICKING, MADISON, MARION, MORGAN, MUSKINGUM, NOBLE, PERRY, PICKAWAY, UNION

Special Jurisdictional Note :

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Cement Mason Local 132 (Columbus)

Change # : LCN01-2017fbLoc132

Craft : Cement Effective Date : 07/26/2017 Last Posted : 07/26/2017

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Cement Mason	\$25.18		\$7.15	\$4.00	\$0.65	\$0.00	\$2.85	\$0.00	\$0.00	\$0.00	\$39.83	\$52.42
Apprentice	Percent											
1st yr	70.00	\$17.63	\$7.15	\$4.00	\$0.65	\$0.00	\$2.85	\$0.00	\$0.00	\$0.00	\$32.28	\$41.09
2nd yr	80.00	\$20.14	\$7.15	\$4.00	\$0.65	\$0.00	\$2.85	\$0.00	\$0.00	\$0.00	\$34.79	\$44.87
3rd yr	90.00	\$22.66	\$7.15	\$4.00	\$0.65	\$0.00	\$2.85	\$0.00	\$0.00	\$0.00	\$37.31	\$48.64

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HOCKING, KNOX, LICKING, MADISON, MARION, MORROW, MUSKINGUM, PERRY, PICKAWAY, RICHLAND, ROSS, UNION, VINTON, WYANDOT

Special Jurisdictional Note :

Details :

Working on swing stage, slip scaffold or window jack scaffold shall receive the following rates: \$.50 above the regular rate for heights up to fifty (50) feet above grade level

\$1.00 above the regular rate for heights over fifty (50) feet above grade level

Prevailing Wage Rate Skilled Crafts

Name of Union: Electrical Local 683 Inside

Change # : LCN02-2017fbbLoc683In

Craft : Electrical Effective Date : 06/07/2017 Last Posted : 06/07/2017

Classification	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Electrician	\$32.35	\$8.85	\$6.24	\$0.80	\$0.00	\$2.50	\$0.00	\$0.00	\$0.00	\$50.74	\$66.92
Cable Splicing	\$32.95	\$8.85	\$6.26	\$0.80	\$0.00	\$2.50	\$0.00	\$0.00	\$0.00	\$51.36	\$67.84
Lead Cable Splicing	\$33.35	\$8.85	\$6.28	\$0.80	\$0.00	\$2.50	\$0.00	\$0.00	\$0.00	\$51.78	\$68.45
Over 100 feet	\$48.53	\$8.85	\$6.73	\$0.80	\$0.00	\$2.50	\$0.00	\$0.00	\$0.00	\$67.41	\$91.67
Level 1 CW 0 to 2000 hours	\$10.48	\$5.48	\$0.31	\$0.75	\$0.00	\$0.31	\$0.00	\$0.00	\$0.00	\$17.33	\$22.57
Level 2 CW 2001 to 4000 hours	\$11.23	\$5.48	\$0.34	\$0.75	\$0.00	\$0.34	\$0.00	\$0.00	\$0.00	\$18.14	\$23.75
Level 3 CW 4001 to 6000 hours	\$11.98	\$5.48	\$0.36	\$0.75	\$0.00	\$0.36	\$0.00	\$0.00	\$0.00	\$18.93	\$24.92
Level 4 CW 6001 to 8000 hours	\$13.47	\$5.48	\$0.40	\$0.75	\$0.00	\$0.40	\$0.00	\$0.00	\$0.00	\$20.50	\$27.23
Level 1 CE 8001 to 10000 hours	\$14.97	\$5.48	\$0.45	\$0.75	\$0.00	\$0.45	\$0.00	\$0.00	\$0.00	\$22.10	\$29.58
Level 2 CE 10,001 to 12,000 hours	\$16.47	\$5.48	\$0.49	\$0.75	\$0.00	\$0.49	\$0.00	\$0.00	\$0.00	\$23.68	\$31.91
Level 3 CE 12,001 to 14,000 hours	\$20.96	\$5.48	\$0.63	\$0.75	\$0.00	\$0.63	\$0.00	\$0.00	\$0.00	\$28.45	\$38.93

Apprentice	Percent											
0-1000 hrs 1st Period	40.00	\$12.94	\$8.85	\$2.50	\$0.80	\$0.00	\$1.00	\$0.00	\$0.00	\$0.00	\$26.09	\$32.56
1001-2000 hrs 2nd Period	40.00	\$12.94	\$8.85	\$2.50	\$0.80	\$0.00	\$1.00	\$0.00	\$0.00	\$0.00	\$26.09	\$32.56
2001-3500 hrs 3rd Period	50.00	\$16.17	\$8.85	\$3.13	\$0.80	\$0.00	\$1.25	\$0.00	\$0.00	\$0.00	\$30.20	\$38.29
3501-5000 hrs 4th Period	55.00	\$17.79	\$8.85	\$3.43	\$0.80	\$0.00	\$1.38	\$0.00	\$0.00	\$0.00	\$32.25	\$41.15
5001-6500 hrs 5th Period	65.00	\$21.03	\$8.85	\$4.06	\$0.80	\$0.00	\$1.63	\$0.00	\$0.00	\$0.00	\$36.37	\$46.88
6501-8000 hrs 6th Period	80.00	\$25.88	\$8.85	\$5.00	\$0.80	\$0.00	\$2.00	\$0.00	\$0.00	\$0.00	\$42.53	\$55.47

Special Calculation Note : Construction Wireman and Construction Electricians may work on residential projects without working under the supervision of a Journeyman Wireman. On ALL other job sites, Construction Wireman and Construction Electricians CAN only be employed after an APPRENTICE IS EMPLOYED on the job site.

Ratio :

1 to 3 Journeyman to 2 Apprentices
 4 to 6 Journeyman to 4 Apprentices

Jurisdiction (* denotes special jurisdictional note) :

CHAMPAIGN, CLARK, DELAWARE,
 FAIRFIELD, FRANKLIN, MADISON,
 PICKAWAY*, UNION

Ratio

Construction Wireman and Construction Electrician

1 Journeyman to 2 Apprentices to 2 CW/CE
 With a MAXIMUM of 6 CW/CE an on any jobsite

Special Jurisdictional Note : In Pickaway County the following townships:
 Circleville, Darby, Harrison, Jackson, Madison, Monroe, Muhlenberg, Scioto, Walnut, Washington.

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Ironworker Local 172

Change # : LCN01-2017fbLoc172

Craft : Ironworker Effective Date : 06/01/2017 Last Posted : 05/31/2017

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Ironworker	\$28.52		\$7.60	\$9.50	\$0.34	\$0.00	\$3.00	\$0.00	\$0.00	\$0.00	\$48.96	\$63.22
Rigger Welder Reinforcing Sheeter Fence Erector Machinery Mover	\$28.52		\$7.60	\$9.50	\$0.34	\$0.00	\$3.00	\$0.00	\$0.00	\$0.00	\$48.96	\$63.22
Apprentice	Percent											
1st YEAR 0 - 6 Months	60.03	\$17.12	\$7.60	\$9.50	\$0.34	\$0.00	\$3.00	\$0.00	\$0.00	\$0.00	\$37.56	\$46.12
2nd YEAR 13 - 18 Months	70.00	\$19.96	\$7.60	\$9.50	\$0.34	\$0.00	\$3.00	\$0.00	\$0.00	\$0.00	\$40.40	\$50.39
3rd YEAR 25 - 30 Months	80.00	\$22.82	\$7.60	\$9.50	\$0.34	\$0.00	\$3.00	\$0.00	\$0.00	\$0.00	\$43.26	\$54.66
4th YEAR 37 - 42 Months	90.00	\$25.67	\$7.60	\$9.50	\$0.34	\$0.00	\$3.00	\$0.00	\$0.00	\$0.00	\$46.11	\$58.94

Special Calculation Note :

Ratio :

Rod Work
3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CHAMPAIGN*, CLARK, CRAWFORD*,
DELAWARE, FAIRFIELD, FAYETTE*,

Structural Work
4 Journeymen to 1 Apprentice

Finishing, Steel Sash, Stairway and Ornamental
1 Journeymen to 1 Apprentice

Sheet Gang
1 Apprentice for every sheeting gang per project

FRANKLIN, HARDIN*, HIGHLAND*,
HOCKING, JACKSON*, KNOX, LICKING,
LOGAN*, MADISON*, MARION, MORROW,
MUSKINGUM*, PERRY, PICKAWAY, PIKE,
ROSS, UNION, VINTON, WYANDOT*

Special Jurisdictional Note : Champaign County Twps included: Wayne, Rush, Goshen. Crawford County Twps included: Bucyrus, Dallas, Jefferson, Jackson, Whetstone, Polk, Sandusky. Fayette County Twps included: Paint, Marion, Perry, Madison, Wayne, Union. Hardin County Twps included: McDonald, Taylorcreek, Hale, Dudley, Pleasant, Goshen, Blanchard, Lynn, Jackson, Buck, Cessna, Marion, Washington. Highland County Twps included: Madison. Jackson County Twps included: Liberty, Washington, Milton, Jackson, Coal, Wilkesville. Logan County Twps included: Monroe, Zane, Jefferson, Perry, Rush Creek, Bokes Creek. Madison County Twps included: Range, Paint, Fairfield, Sommerford, Jefferson, Pike, Canaan, Pleasant, Oak Run, Union, Deer Creek, Monroe, Darby. Pike County Twps included: Perry, Benton, Mifflin, Sunfish, Newton, Prebble, Pee Pee, Seal, Beaver, Jackson. Wyandot County Twps included: Jackson, Marseilles, Mifflin, Pitt, Antrim. Muskingum County includes: Jackson, Licking, Hope Well, Newton, Clay, Cass, Muskingum falls, Springfield, Madison, Washington, Wayne, Brush Creek.

Details :

Hot Pay \$1.00 above the journeymen rate: defined as a work area in which the temperature is in excess of 150 degrees F due to the presence of a furnace, smelter, incinerator, or other equipment that emits extreme heat.

Prevailing Wage Rate Skilled Crafts

Name of Union: Labor Local 423

Change # : LCN01-2017fbLoc423

Craft : Laborer Effective Date : 07/19/2017 Last Posted : 07/19/2017

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)		
Classification											
Laborer Group 1	\$25.63	\$6.90	\$3.40	\$0.40	\$0.00	\$0.00	\$0.00	\$0.10	\$0.00	\$36.43	\$49.25
Group 2	\$25.94	\$6.90	\$3.40	\$0.40	\$0.00	\$0.00	\$0.00	\$0.10	\$0.00	\$36.74	\$49.71
Group 3	\$26.25	\$6.90	\$3.40	\$0.40	\$0.00	\$0.00	\$0.00	\$0.10	\$0.00	\$37.05	\$50.17
Group 4	\$26.56	\$6.90	\$3.40	\$0.40	\$0.00	\$0.00	\$0.00	\$0.10	\$0.00	\$37.36	\$50.64
Apprentice	Percent										
0-1000 hrs	60.00	\$15.38	\$6.90	\$3.40	\$0.40	\$0.00	\$0.00	\$0.10	\$0.00	\$26.18	\$33.87
1001-2000 hrs	70.00	\$17.94	\$6.90	\$3.40	\$0.40	\$0.00	\$0.00	\$0.10	\$0.00	\$28.74	\$37.71
2001-3000 hrs	80.00	\$20.50	\$6.90	\$3.40	\$0.40	\$0.00	\$0.00	\$0.10	\$0.00	\$31.30	\$41.56
3001-4000 hrs	90.00	\$23.07	\$6.90	\$3.40	\$0.40	\$0.00	\$0.00	\$0.10	\$0.00	\$33.87	\$45.40
More than 4000 hrs	100.00	\$25.63	\$6.90	\$3.40	\$0.40	\$0.00	\$0.00	\$0.10	\$0.00	\$36.43	\$49.25

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

1 Journeymen to 1 Apprentice
4 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

FAIRFIELD, FAYETTE, FRANKLIN,
HOCKING, LICKING, MADISON,
PICKAWAY, UNION

Special Jurisdictional Note :

Details :

Group 1:

General Laborers, Carpenter Tender, Cathodic Protection, Cleaning Debris, Cleaning of all Material, General Clean-up including Vacuum Cleaning, Scraping and Cleaning of Walls and Floors, Landscape, Installation and Removal of Fencing, Sod Layers, All Portable Heaters, Flagman, Loading and Unloading of all Trucks, Handling and conveying all Materials, Washing of all Windows, Conveyer Belt, All Water Pumps up to and including three (3) inch intake, Watchman, Water Boy and Tool Room Attendant.

Group 1- Swimming Pools, Pool Decks, Surrounding Sidewalk and Parking Garages.

Group 2:

Skid Steer, Concrete Specialists, Brick Tender, Stone Mason Tender, Plaster Tender, Mortar Mixer and Operator, Cement Mason Tender, Construction Specialist, All Scaffold Builders (Swinging Scaffolds), Lagging, Bush Hammering, Jack Hammer Operator, Air or Electric Pneumatic Tool Operator, Power Driven Tools, Power Buggy Operators, Pouring and Placement of all concrete, Fork Lift Operators, Power Wheelbarrow Operators, Asphalt and Blacktop Rakers, Wrecker/Demolition, Sand Blasting and Chipping, Welders on Demolition, Grade Checkers, a person on a bucket pouring concrete, Guniting Nozzle man, Wagon and Churn Drill Operator, Concrete Saw Operator, Brush Feeders on pulverizers, Pipe Layers, Bottom Man, Laser Gun, Burners, Sand Blasting of concrete, Vibrator Man, Steward, Signal Man, Caisson, Caisson Bottom Man, Piledrivers, Asbestos and Lead Abatement Laborers.

Hazardous Waste (Level B): Any work requiring the following protective equipment must be paid at Group 2 rate,

A protective suit and an Air Purifying Respirator (APR) with the appropriate filter canisters. The ensemble is used when contaminants are reliably known not to be hazardous to the skin and not IDLH (Immediately Dangerous To Life or Health) and correct filter protection is available. This ensemble offers adequate protection for many jobs. Heat stress may be a problem due to inherent restrictions to breathing in an APR. Also, normal job related injury risk will be nearly as high as for Level C Equipment.

Group 3 Hazardous (Level C): Any work requiring the following protective equipment must be paid at Group 3 rate,

A chemically resistant splash suit and a (SCBA) or Airline Respirator. This ensemble is required when the situation is very hazardous, such as oxygen deficient atmospheres, IDLH atmospheres, or confined space entries, but the risk of skin exposure is not as great as in Level D situations. Then Level C ensemble gives the second highest level of protection, but also puts physical stress on the worker; primarily heat stress, reduced vision, dexterity and mobility directly attributable to wearing of the protective equipment. Therefore, in addition to the hazardous material, the hazard of the normal job related injuries is greatly increased.

Group 4 Hazardous Waste (Level D) requiring the following protective equipment must be paid at Group 4 rate,

Protective equipment is required when the area has been known to contain extremely toxic contaminants or contaminants unknown but may be expected to be extremely toxic and /or Immediately Dangerous to Life and Health (IDLH). This ensemble includes fully encapsulated chemical suit (moon suit), Self Contained Breathing Apparatus (SCBA), or Airline Fed Respirator, and various types and numbers of boots and gloves, cool vests and voice activated radios are optional equipment sometimes worn. Level D ensembles provide the highest level of protection from contaminants but places the greatest physical and mental stress on the worker. The claustrophobic

environment of the moon suit causes anxiety in most people, which greatly increases the already inherent heat stress problems. Also, this ensemble reduces vision, mobility, dexterity, and communication capacity, all of which increases the risk of normal job related injuries, ie., slips ,falls, caught between, etc

Hazardous Pay of \$0.25 per hour shall be paid in addition to classifications shown above
Swing Scaffolds (suspended by rope or pulley), and swing scaffolds for grain storage tank or grain elevators, when the work is performed at a height of fifty (50) feet or more above the foundations or grade level, whichever is higher. Caisson work and tunnel work (depth being 15 feet or deeper)

Hazardous Waste Removal & Lead Abatement Workers: Exclusive or "Hot" area with toxic or hazardous materials, when one of the following personal protective equipment ensembles will be required for necessary protection against toxic contaminants. All of the ensembles increase the risks of certain types of worker-related injuries. When Laborers complement another craft receiving premium rate of pay Laborers will also receive premium pay for this "HOT" type of work.

Prevailing Wage Rate Skilled Crafts

Name of Union: Operating Engineers - Building Local 18 - Zone III

Change # : LCN01-2017fbLoc18zone3

Craft : Operating Engineer Effective Date : 08/02/2017 Last Posted : 08/02/2017

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Operator Class 1	\$34.84		\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$49.69	\$67.11
Class 2	\$34.72		\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$49.57	\$66.93
Class 3	\$33.68		\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$48.53	\$65.37
Class 4	\$32.50		\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$47.35	\$63.60
Class 5	\$27.04		\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$41.89	\$55.41
Class 6	\$35.09		\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$49.94	\$67.49
Class 7	\$35.34		\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$50.19	\$67.86
Class 8	\$35.84		\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$50.69	\$68.61
Class 9	\$36.09		\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$50.94	\$68.99
Apprentice	Percent											
1st Year	50.00	\$17.42	\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$32.27	\$40.98
2nd Year	60.00	\$20.90	\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$35.75	\$46.21
3rd Year	70.00	\$24.39	\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$39.24	\$51.43
4th Year	80.00	\$27.87	\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$42.72	\$56.66
Field Mechanic Trainee												
1st Year	49.83	\$17.36	\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$32.21	\$40.89
2nd Year	59.80	\$20.83	\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$35.68	\$46.10
3rd Year	69.75	\$24.30	\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$39.15	\$51.30
4th Year	79.75	\$27.78	\$8.01	\$6.00	\$0.75	\$0.00	\$0.00	\$0.09	\$0.00	\$0.00	\$42.63	\$56.53

Special Calculation Note : Other: Education & Safety \$0.09

Ratio :

Jurisdiction (* denotes special jurisdictional note) :

For every (3) Operating Engineer Journeymen employed by the company there may be employed ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER,

(1) Registered Apprentice or trainee Engineer through the referral when they are available. An apprentice, while employed as part of a crew per Article VIII, paragraph 77, will not be subject to the apprenticeship ratios in this collective bargaining agreement

CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WYANDOT

Special Jurisdictional Note :

Details :

**Apprentices will receive a 10% increase on top of the percentages listed above provided they are operating mobile equipment. Mechanic Trainees will receive 10% increase if required to have CDL

Class 1 - Barrier Moving Machine; Boiler Operators or Compressor Operators, when compressor or boiler is mounted on crane (Piggyback Operation); Boom Trucks (all types); Cableways Cherry Pickers; Combination - Concrete Mixers & Towers; All Concrete Pumps with Booms; Cranes (all types) Derricks (all types); Draglines Dredges (dipper, clam or suction) 3-man crew; Elevating Graders or Euclid Loaders; Floating Equipment; Gradalls; Helicopter Operators; hoisting building materials; Helicopter Winch Operators, Hoisting building materials; Hoes (All types); Hoists (with two or more drums in use); Hydraulic Gantry (lift system); Laser Finishing Machines; Lift Slab or Panel Jack Operators; Locomotives (all types); Maintenance Engineers (Mechanic and/or Welder); Mixers, paving (multiple drum); Mobile Concrete Pumps, with booms, Panelboards, (all types on site); Pile Drivers; Power Shovels; Prentice Loader; Rail Tamper (with automatic lifting and aligning device); Rotary Drills (all) used on caissons for foundations and sub-structure work; Side Booms; Slip Form Pavers; Straddle Carriers (Building Construction on site); Tug Boats. Horizontal Directional Drill, Rough Terrain Fork-lift with Winch/Hoist, Laser Screed, and Like equipment; Compact Cranes, track or rubber over 4,000 pound capacity, self-erecting cranes: stationary, track or truck (all configurations) bucket trench machines (over 24 " wide).

Class 2 - Asphalt Pavers; Bobcat-type and/or skid steer loader with hoe attachment greater than 7000 lbs. Bulldozers; CMI type Equipment; Endloaders; Hydro Milling Machine; Kolman-type Loaders (Dirt Loading); Lead Greasemen; Mucking Machines; Pettibone-Rail Equipment; Power Graders; Power Scoops; Power Scrapers; Push Cats; Vermeer Type Concrete Saw; All rotomills, grinders & planers of all types. Articulating/end dumps (minus \$4.00/hour from Class 2 rate)

Class 3 - A Frames; Air Compressors, Pressurizing Shafts or Tunnels; All Asphalt Rollers; Bobcat-type and/or skid steer loader with or without attachments; Boilers (15 lbs pressure and over); All

concrete Pumps (without booms with 5 inch system); Fork Lifts (except masonry); Highway Drillers - all types (with integral power); Hoists (with one drum); House Elevators (except those automatic call button controlled); Man lifts; Mud Jacks; Pressure Grouting; Pump Operators (installing or operating Well Points or other types of Dewatering Systems); Pumps (4 inches and over discharge); Railroad Tie Inserter/Remover; Rotator (Lime-Soil Stabilizer); Submersible Pumps (4 inches and over discharge); Switch & Tie Tampers (without lifting and aligning device); Trench Machines (24 inches and under); Utility Operators; Material hoist/elevators.

Class 4 - Ballast Re-locator; Backfillers and Tampers; Batch Plant Operators; Bar and Joint Installing Machines; Bull Floats; Burlap and Curing Machines; Clefplanes; Compressors, on building construction; Concrete Spreader; Conveyors, used for handling building materials; Concrete Mixers, one bag capacity (side loader); Concrete Mixers, capacity more than one bag; Crushers; Deck Hands; Drum Fireman (in Asphalt Plant); Farm type tractors pulling attachments; Finishing Machines; Form Trenchers; Generators; Gunite Machines; Hydro-Seeders; Pavement Breakers (hydraulic or cable); Post Drivers; Post Hole Diggers; Pressure Pumps (over 1/2 inch discharge); Road Widening Trenchers; Rollers (except asphalt); All Concrete pumps (without Boom with 4 inch or smaller systems); Self-Propelled Power Spreaders; Concrete Spreaders; Self-Propelled Sub-graders; Shotcrete Machines; Tire Repairmen; Tractors, pulling sheepfoot rollers or graders; VAC/ALLS; Vibratory Compactors, with integral power; Welder Operators.

Class 5 - Boilers (less than 15 lbs. pressure); Inboard/outboard Motor Boat Launches; Light Plant Operators; Masonry Fork Lifts; Oilers/Helpers; Power Driven Heaters (oil fired); Power Scrubbers; Power Sweepers; Pumps (under 4 inch discharge); Signalmen, Submersible Pumps (under 4 inch discharge). Directional Drill Locator and Allen Screed Concrete Paver. Fueling and greasing (plus \$3.00), compact cranes; track or rubber under 4,000 pounds.

Class 6 - Master Mechanic

Class 7 - Boom & Jib 150 - 180 feet

Class 8 - Boom & Jib 180 - 249 feet

Class 9 - Boom & Jib 250 - or over

Prevailing Wage Rate Skilled Crafts

Name of Union: Painter Local 1275

Change # : LCR02-2017fbLoc1275

Craft : Painter Effective Date : 09/14/2017 Last Posted : 09/14/2017

Classification	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Painter Brush Roll	\$24.66		\$5.42	\$7.18	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$37.71	\$50.04
Paperhanger Wall Washer	\$24.66		\$5.42	\$7.18	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$37.71	\$50.04
Spray Painter	\$25.16		\$5.42	\$7.18	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38.21	\$50.79
Structural Steel Swing Stage	\$24.96		\$5.42	\$7.18	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38.01	\$50.49
Sandblast steam Clean Water Blasting (3500 PSI and Over) and Hazardous	\$25.36		\$5.42	\$7.18	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38.41	\$51.09
Stacks and towers	\$28.17		\$5.42	\$7.18	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$41.22	\$55.31
Tanks - All Tanks 50,000 gallon capacity or more	\$28.17		\$5.42	\$7.18	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$41.22	\$55.31
Apprentice	Percent											
0-1500 hrs	60.00	\$14.80	\$5.42	\$0.77	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.44	\$28.83
1501-3000 hrs	70.00	\$17.26	\$5.42	\$0.77	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23.90	\$32.53
3001-4500 hrs	80.00	\$19.73	\$5.42	\$0.77	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.37	\$36.23

4501-6000 hrs	90.00	\$22.19	\$5.42	\$0.77	\$0.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28.83	\$39.93

Special Calculation Note : APPRENTICES BASED ON % OF EACH CLASS ABOVE PLUS FULL FRINGES

Ratio :

1 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, KNOX, LICKING, MADISON, MUSKINGUM, PERRY, PICKAWAY*, ROSS, UNION

Special Jurisdictional Note :

Details :

Heavy Highway Class 1 are qualified painters,blasters,riggers.
Class 2 Equipment Tenders /or containment Builders are hired to tend employers equipment also engage in the building & moving of containment systems.
Class 3 support personnel will perform Quality control duties,clean abrasive blast materials, load and unload trucks, handle all materials, man safety boats, & handle traffic control.
All Tanks 50,000 gallon capacity or more will be at the tank stated rate.

Prevailing Wage Rate Skilled Crafts

Name of Union: Plumber Pipefitter Local 189

Change # : LCN01-2017fbLoc189

Craft : Plumber Pipefitter Effective Date : 06/07/2017 Last Posted : 06/07/2017

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Plumber Pipefitter	\$35.45		\$8.29	\$7.34	\$0.85	\$0.00	\$6.76	\$0.00	\$0.00	\$0.00	\$58.69	\$76.42
Heating Piping Refrigeration, Temperature Control, Air Conditioning Welder	\$35.45		\$8.29	\$7.34	\$0.85	\$0.00	\$6.76	\$0.00	\$0.00	\$0.00	\$58.69	\$76.42
1st Year	35.00	\$12.41	\$5.00	\$0.00	\$0.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.26	\$24.46
2nd Year	45.00	\$15.95	\$8.29	\$5.45	\$0.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30.54	\$38.52
3rd Year	55.00	\$19.50	\$8.29	\$5.45	\$0.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$34.09	\$43.84
4th Year	65.00	\$23.04	\$8.29	\$5.45	\$0.85	\$0.00	\$6.76	\$0.00	\$0.00	\$0.00	\$44.39	\$55.91
5th Year	80.00	\$28.36	\$8.29	\$5.45	\$0.85	\$0.00	\$6.76	\$0.00	\$0.00	\$0.00	\$49.71	\$63.89

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

- Employees-----Journeyman to Apprentice per Job
- 1) 1-0
- 2) 1-1
- 3) 2-1
- 4) 2-2
- 5) 3-2

Jurisdiction (* denotes special jurisdictional note) :

DELAWARE, FAIRFIELD, FRANKLIN, HOCKING, LICKING, MADISON, MARION, PERRY, PICKAWAY, ROSS, UNION

- 6) 4-2
- 7) 4-3
- 8) 5-3
- 9) 6-3
- 10) 6-4
- 11) 7-4
- 12) 8-4
- 13) 8-5
- 14) 9-5
- 15) 10-5
- 16) 10-6
- 17) 11-6
- 18) 12-6
- 19) 12-7
- 20) 13-7
- 21) 14-7
- 22) 14-8
- 23) 15-8
- 24) 16-8
- 25) 16-9

Heating Piping refrigeration, Temperature
Control, Air Conditioning Ratio

(1) Additional Apprentice to (3) Journeymen
thereafter

Employees Journeyman to Apprentice
per Job

- 1) Employee 1-0
- 2) Employees 1-1
- 3) Employees 2-1
- 4) Employees 2-2
- 5) Employees 3-2
- 6) Employees 4-2
- 7) Employees 5-2
- 8) Employees 5-3
- 9) Employees 6-3
- 10) Employees 7-3
- 11) Employees 8-3
- 12) Employees 8-4
- 13) Employees 9-4
- 14) Employees 10-4
- 15) Employees 11-4
- 16) Employees 11-5
- 17) Employees 12-5
- 18) Employees 13-5
- 19) Employees 14-5
- 20) Employees 14-6
- 21) Employees 15-6
- 22) Employees 17-5

- 23)Employees 18-5
- 24)Employees 18-6
- 25)Employees 19-6
- 26)Employees 20-6
- 28)Employees 22-6
- 29)Employees 22-7
- 30) Employees 23-7
- 31)Employees 23-7
- 32) Employees 25-7
- 33)Employees 26-7
- 34)Employees 26-8

Special Jurisdictional Note :

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Sheet Metal Local 24 Columbus

Change # : LCR02-2017fbLoc24Col

Craft : Sheet Metal Worker Effective Date : 08/02/2017 Last Posted : 08/02/2017

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Sheet Metal Worker	\$28.32	\$8.80	\$11.74	\$1.01	\$0.00	\$3.52	\$0.00	\$0.00	\$0.00	\$53.39	\$67.55
APPRENTICE entered program AFTER June 1, 2009											
1st year 50%	\$14.16	\$7.27	\$1.81	\$0.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24.04	\$31.12
2nd year 60%	\$16.99	\$8.22	\$7.45	\$0.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$33.46	\$41.96
3rd year 70%	\$19.82	\$8.40	\$8.21	\$1.01	\$0.00	\$2.46	\$0.00	\$0.00	\$0.00	\$39.90	\$49.81
4th year 80%	\$22.66	\$8.53	\$9.40	\$1.01	\$0.00	\$2.82	\$0.00	\$0.00	\$0.00	\$44.42	\$55.75
Percent											
Apprentice entered program AFTER June 1, 2006 and BEFORE June 1, 2009											
2nd Year	60.00	\$16.99	\$7.46	\$5.79	\$0.85	\$0.00	\$1.41	\$0.00	\$0.00	\$32.50	\$41.00
3rd Year	70.00	\$19.82	\$7.58	\$6.76	\$1.06	\$0.00	\$1.65	\$0.00	\$0.00	\$36.87	\$46.79
4th Year	80.00	\$22.66	\$7.74	\$9.13	\$1.06	\$0.00	\$1.88	\$0.00	\$0.00	\$42.47	\$53.79

Special Calculation Note : No special calculations for this skilled craft wage rate required at this time.

Ratio : **Jurisdiction (* denotes special jurisdictional note) :**

1 Journeyman to 1 Apprentice
2-8 Journeymen to 2 Apprentices
9-11 Journeymen to 3 Apprentices
12-14 Journeymen to 4 Apprentices
15-17 Journeymen to 5 Apprentices
18-20 Journeymen to 6 Apprentices
21-23 Journeyman to 7 Apprentices
24-26 Journeyman to 8 Apprentices
27-29 Journeymen to 9 Apprentices
30-32 Journeymen to 10 Apprentices
33-35 Journeymen to 11 Apprentices
36-38 Journeymen to 12 Apprentices
39-41 Journeymen to 13 Apprentices
42-44 Journeymen to 14 Apprentices
45-47 Journeymen to 15 Apprentices
48-50 Journeymen to 16 Apprentices
and so on

ADAMS, ATHENS, DELAWARE, FAIRFIELD,
FAYETTE, FRANKLIN, GALLIA, GUERNSEY,
HOCKING, JACKSON, KNOX, LAWRENCE,
LICKING, MADISON, MARION, MEIGS,
MORGAN, MORROW, MUSKINGUM, NOBLE,
PERRY, PICKAWAY, PIKE, ROSS, SCIOTO,
UNION, VINTON

Special Jurisdictional Note :

Details :

Prevailing Wage Rate Skilled Crafts

Name of Union: Truck Driver Bldg & HevHwy Class 1
Locals 20,40,92,92b,100,175,284,438,377,637,908,957

Change # : LCON1-2017fbBldgHevHwy

Craft : Truck Driver **Effective Date :** 07/05/2017 **Last Posted :** 07/05/2017

	BHR		Fringe Benefit Payments					Irrevocable Fund		Total PWR	Overtime Rate	
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)			MISC (*)
Classification												
Truck Driver CLASS 1 4 wheel service, dump, and batch trucks, Oil Distributor - Asphalt Distributor-Tandems	\$26.49		\$7.00	\$7.30	\$0.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40.99	\$54.24
Apprentice	Percent											
First 6 months	80.00	\$21.19	\$7.00	\$7.30	\$0.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35.69	\$46.29
7-12 months	85.00	\$22.52	\$7.00	\$7.30	\$0.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$37.02	\$48.27
13-18 months	90.00	\$23.84	\$7.00	\$7.30	\$0.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38.34	\$50.26
19-24 months	95.00	\$25.17	\$7.00	\$7.30	\$0.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$39.67	\$52.25
25-30 months	100.00	\$26.49	\$7.00	\$7.30	\$0.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40.99	\$54.24

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

3 Journeymen to 1 Apprentice
per company/project

**Jurisdiction (* denotes special
jurisdictional note) :**

ADAMS, ALLEN, ASHLAND, ASHTABULA,
ATHENS, AUGLAIZE, BELMONT, BROWN,
BUTLER, CARROLL, CHAMPAIGN, CLARK,
CLERMONT, CLINTON, COLUMBIANA,
COSHOCTON, CRAWFORD, DARKE,
DEFIANCE, DELAWARE, ERIE, FAIRFIELD,
FAYETTE, FRANKLIN, FULTON, GALLIA,
GREENE, GUERNSEY, HAMILTON,
HANCOCK, HARDIN, HARRISON, HENRY,
HIGHLAND, HOCKING, HOLMES, HURON,
JACKSON, JEFFERSON, KNOX, LAWRENCE,
LICKING, LOGAN, LORAIN, LUCAS,
MADISON, MAHONING, MARION, MEDINA,
MEIGS, MERCER, MIAMI, MONROE,
MONTGOMERY, MORGAN, MORROW,
MUSKINGUM, NOBLE, OTTAWA,
PAULDING, PERRY, PICKAWAY, PIKE,
PORTAGE, PREBLE, PUTNAM, RICHLAND,
ROSS, SANDUSKY, SCIOTO, SENECA,
SHELBY, STARK, SUMMIT, TRUMBULL,
TUSCARAWAS, UNION, VAN WERT,
VINTON, WARREN, WASHINGTON, WAYNE,
WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

** Asphalt - Oil spray bar man when operating from cab shall receive \$0.20 cents per hour above their Basic Hourly Rate.



GEOTECHNICAL
CONSULTANTS INC.

MAIN OFFICE
720 Greencrest Drive
Westerville, OH 43081
614.895.1400 **phone**
614.895.1171 **fax**

YOUNGSTOWN OFFICE
8433 South Avenue
Building 1, Suite 1
Boardman, OH 44514
330.965.1400 **phone**
330.965.1410 **fax**

DAYTON OFFICE
2380 Bellbrook Avenue
Xenia, OH 45385
937.736.2053 **phone**

www.gci2000.com

“This electronic communication and its contents may contain confidential information which is the exclusive property of Geotechnical Consultants, Inc. The recipient(s) assumes all liability arising from any alteration, misuse or unauthorized distribution. If you have received this information in error, please notify the sender immediately.”



GEOTECHNICAL
CONSULTANTS INC.



GCI PROJECT No. 17-G-21105

Subsurface Exploration and Geotechnical Engineering Report

Baldwin Government Services Center Building
240 Baldwin Drive
Lancaster, Ohio

Prepared for:
Fairfield County Commissioners

September 22, 2017



**GEOTECHNICAL
CONSULTANTS INC.**

MAIN OFFICE
720 Greencrest Drive
Westerville, OH 43081
614.895.1400 **phone**
614.895.1171 **fax**

YOUNGSTOWN OFFICE
8433 South Avenue
Building 1, Suite 1
Boardman, OH 44514
330.965.1400 **phone**
330.965.1410 **fax**

DAYTON OFFICE
2380 Bellbrook Avenue
Xenia, OH 45385
937.736.2053 **phone**

www.gci2000.com

September 22, 2017

Mr. Dennis R. Keller
Facilities Manager
Fairfield County Commissioners
210 E. Main Street
Lancaster, Ohio 43130

**Reference: Subsurface Exploration and Geotechnical Engineering Report
Baldwin Government Services Center Building
240 Baldwin Drive – Lancaster, Ohio
GCI Project No. 17-G-21105**

Dear Mr. Keller:

As requested by Mr. Steve Luchtenberg of VPL Architects, Inc., and authorized by Ms. Carri Brown on behalf of the Fairfield County Board of Commissioners (P.O. #17006810-000), Geotechnical Consultants, Inc. (GCI) performed a subsurface exploration for the proposed Government Services Building in Lancaster, Ohio. The purpose of our work was to assess subsurface conditions and to provide recommendations for building foundations and general site preparation. Our work was performed in general accordance with our proposal (GCI Proposal No. 17G0444 - revised) dated August 15, 2017. GCI was provided with a Site Plan showing the proposed building location, existing site features, and existing topography (VPL Architects, dated 5/22/17).

SITE AND PROJECT DESCRIPTIONS

The project site is within the southwest portion of a 3.94 acre parcel (ID 0534004600) located at 240 Baldwin Drive in Lancaster, Ohio. A *Site Location Map* is attached to this report.

As shown in Figure 1, there is a paved drive from Baldwin Drive to an existing building in the east portion of the site. The proposed building will be located south of the paved drive at the entrance. Based on information provided, this area of the site was previously occupied by a building that was demolished.

Topographically the paved drive is at Project Elevation 98 to 99 feet, and the surface grades down to Project Elevation 91 feet in the southwest corner of the site as shown in Figure 2 and in the attached boring location plan.

The proposed project consists of constructing a 50 ft x 200 ft post frame garage building.

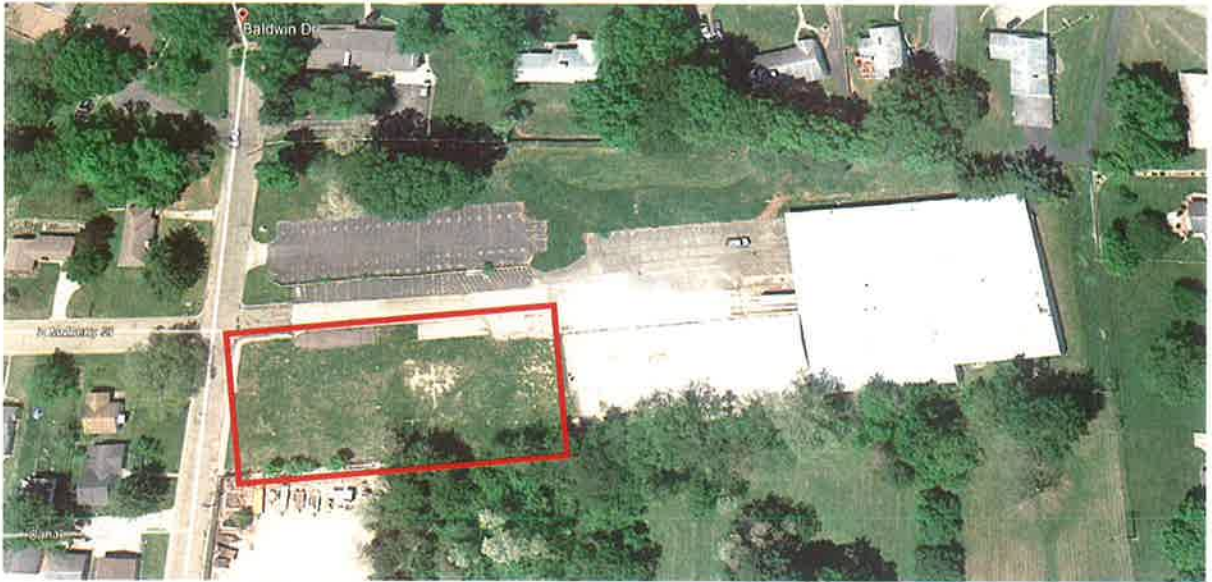


Figure 1. Aerial photograph (2017, Google Maps)



Figure 2. Site photograph looking east (Google Earth)

SUBSURFACE CONDITIONS

On September 7, 2017, GCI mobilized a truck-mounted rotary drill rig (CME-45 with automatic sampling hammer) and drilled four standard penetration borings (B-1 to B-4) within the proposed building area. We extended the borings to depths of 19.3 to 20 feet below grade.

The borings were located based on the site plan and site landmarks. Surface elevations at the boring locations were estimated based on the topographic information provided,

but were not field-verified. A plan showing the approximate boring locations, copies of the boring logs, and cross section profile are attached in the appendix. We summarize the findings below, and in the attached table. Refer to the boring logs for more detailed information.

Surface Cover

The borings encountered fill materials, extending to depths of 2.3 to 6 feet below grade. The upper one foot of fill consisted of lean clay with sand and topsoil. Below a depth of 1 foot, the fill consisted primarily of concrete and brick, with lean clay. Standard penetration testing indicated the fill was medium stiff in cohesive consistency, but difficult driving occurred (less than 3 inches of penetration with 50 hammer blows) when rubble was encountered within the fill.

Natural Soils

Below the fill in boring B-4, we encountered brown lean clay (classified as CL under the Unified Classification System). The clay was stained and a slight petroleum odor was detected in the sample obtained from 4 to 5.5 feet. These soils contained minor amounts of sand and were moderate in plasticity. Based on standard penetration test N-values, the clay was medium stiff in cohesive consistency.

Below the fill in borings B-1 to B-3, we encountered brown lean clay with sand (CL - glacial till) that graded to gray sandy lean clay with gravel (CL - glacial till) at depths of 9 to 16 feet. These soils consist of variable sand and gravel within a lean clay matrix and were noted as stiff to very stiff. We noted random layers of sand and gravel within the till. We terminated borings B-1 and B-2 within the gray till at 20 feet below existing grade.

Bedrock

We encountered brown and gray shale bedrock in borings B-3 and B-4 at depths of 8 to 11.5 feet. The shale was highly weathered but difficult driving was encountered in boring B-3 and this boring was terminated at a depth of 19.3 feet while boring B-4 was terminated at a depth of 20 feet below existing grade.

Groundwater

We encountered groundwater seepage in the borings during drilling at depths of 3.5 to 16.5 feet. Immediately upon completion of drilling, the seepage had dissipated in boring B-1, and remained constant in B-2. However, the water level rose in borings B-3 and B-4 to depths of 8 to 10 feet.

GCI generally described the retrieved clay-based split spoon samples as moist, but samples obtained near and below seepage levels were very moist to wet. Note that groundwater levels and moisture conditions can vary with changes in season and in response to precipitation.

GEOTECHNICAL EVALUATION AND RECOMMENDATIONS

Based on our borings, it is GCI's opinion that the site geotechnical conditions are suitable for the proposed one-story utility building, with proper consideration given to the existing fill as discussed in the following paragraphs.

Existing Fill

The borings encountered fill soils to depths of 2.3 to 6 feet below grade. The top 1 foot of

fill consisted of lean clay with sand and topsoil, and the under fill was predominately concrete and brick with lean clay. We encountered rubble within the fill as evidenced by the difficulty driving the split spoon sampler through this material. This is consistent with the likelihood that, after demolition of the previous building, miscellaneous materials were used to fill the area. We have considered two options for addressing the fill: (1) remove the fill and place structural fill to design grade, or (2) leave the fill in place and place structural fill to design grade (as needed).

Remove and Replace – In our opinion, the approach with least risk would be to remove the existing fill to expose firm and stable natural soils, then place structural fill to design grade. The non-organic excavated fill could be reused for structural fill. Organic portions of the excavated fill should be discarded, and concrete pieces larger than 6 inches should not be used for new structural fill.

Leave Existing Fill in Place – If the owner is willing to accept a risk of settlement, the existing fill can be left in place, provided it is firm and stable under a thorough proofroll. New structural fill would be placed to design grade as needed. With this option, foundations should be extended through both the new structural fill and buried existing fill to bear in firm and stable natural soils.

Site Preparation

We recommend that the site earthwork contractor proof-roll the soil subgrades using a fully-loaded, tandem-axle dump truck (or equivalent) after performing site stripping and exposing stable, non-organic subgrade soils and prior to fill placement. The purpose of the proof-roll is to identify potential soft, yielding subgrade areas. Soft spots identified during the proof-roll should be undercut to firm, stable conditions or otherwise stabilized prior to placing controlled fill to finished subgrade elevation.

Place controlled fills to design grade. In our opinion, the natural, non-organic site soils and existing fill can be re-used as structural fill, provided they are properly moisture conditioned. Fill materials with excessive amounts of organics, construction debris, and other deleterious materials are not suitable for reuse in controlled fill and can be disposed of at an off-site location, wasted to green spaces, or reused in landscaping mounds. Off-site borrow materials should be reviewed by our office prior to use.

Place controlled fills in maximum 8-inch thick loose lifts and compact each lift to a minimum of 98% of the maximum Standard Proctor dry density (ASTM D-698). The moisture in the fill soils should be controlled to within $\pm 3\%$ of the optimum Standard Proctor moisture content. **Depending on the time of year of earthwork, moisture adjustment of the site soils may be required to achieve proper compaction.**

Cohesive soils will compact best with a sheepsfoot roller and granular soils will compact best with a vibratory smooth drum roller.

Foundations

Foundations bearing in natural soils or in new structural fill placed directly on firm and stable natural soils can be designed using an allowable bearing pressure of 3,000 psf.

We recommend minimum footing sizes of 30 inches square for columns and 16 inches in width for strip footings to eliminate a potential punching effect. All exterior footings should extend to local frost bearing depth (anticipated to be 32 inches) or to firm and stable soil

bearing, whichever is deeper. Typical to local practice, soft zones at foundation grade should be undercut to stable bearing conditions. Undercuts may be backfilled with a controlled density fill, such as K-krete, to allow foundation construction at design elevations.

Slabs

Conventional concrete slab-on-grade is suitable for the proposed building. We recommend placing a minimum of 4 inches of free-draining, granular fill (ODOT 304, No. 57 stone, etc.) under the floor slab to serve as a capillary cut-off, and to provide a uniform, firm subbase. The slab can be designed using a subgrade stiffness of 120 pound per cubic inch (pci), and increasing the aggregate thickness to 6-inches will allow the slab to be designed using a stiffness of 150 pci.

We suggest placing vapor barriers below slabs in areas where moisture could cause problems with floor finishes. We recommend that the flatwork contractor consolidate the stone with a vibratory plate compactor prior to installing under slab vapor barriers or placing slab concrete.

Seismic Factor

Based on our borings and in accordance with the Ohio Building Code, we estimate the site as Site Class D – stiff soil profile.

Excavations

The existing fill and natural site soils can be excavated with conventional track hoe equipment. We encounter bedrock in two borings at depths of 8 to 11.5 feet, and we do not expect bedrock will impact site development work. Site excavations should comply with current OSHA requirements.

Groundwater

We encounter groundwater seepage at depths of 3.5 to 16.5 feet during drilling with water levels below 8 feet immediately upon completion of drilling. As such, groundwater should not be a significant issue for site preparation, shallow foundation and shallow utility excavations at the site. If water is encountered in site excavations, the excavations should be dewatered to allow footing construction and utility trench backfilling in dry conditions. We expect the anticipated groundwater seepage flows in shallow excavations above the noted seepage levels can be handled with portable sump pumps and working mats of crushed stone. The purpose of the working mat is to protect subgrades from disturbance during construction and to act as a drainage layer to help control groundwater seepage.

FINAL

The intent of this study was to evaluate subsoil conditions and offer recommendations pertinent to the referenced project. Geotechnical Consultants Inc. prepared this report for the exclusive use of the Fairfield County Commissioners and their consultants for the specific application to the proposed project. GCI prepared this report in accordance with generally accepted soil and foundation engineering practices. No warranty, expressed or implied, is made.

In the event that any changes in the nature, design or location of the project is planned, conclusions and recommendations contained in this report shall not be considered valid

unless changes are reviewed and conclusions of this report are modified or verified in writing. It should be noted that the nature and extent of variations between borings might not become evident until construction. If variations appear evident, it will be necessary to re-evaluate the recommendations of this report.

GCI provides construction materials engineering and testing services. For project continuity throughout construction, we recommend that GCI be retained to observe site preparation, fill placement, and footing construction. The purpose of this work is to assess that the intent of our recommendations is being followed and to make timely changes to our recommendations (as needed) in the event site conditions vary from those observed in our borings. Please contact our field department to initiate these services.

We appreciate the opportunity to provide our services for this project and hope to continue providing our services through construction. Please do not hesitate to contact us with any questions you may have.

Respectfully submitted,
Geotechnical Consultants, Inc.

Kevin M. O'Connor, P.E.
 Senior Project Manager

Curtis L. Miller, P.E.
 In-House Reviewer

Attachments: General Notes for Soil Sampling and Classifications
 General Site Location Map (DeLorme Street Atlas USA® 2014)
 Site and Boring Location Plan
 Cross Section Profile
 Summary of Encountered Subsurface Conditions
 Test Boring Logs (B-1 to B-4)

Distribution: Mr. Dennis Keller @ Fairfield County Commissioners - pdf via email
 GCI File – 1 copy





GEOTECHNICAL
CONSULTANTS INC.



APPENDIX – Baldwin Government Services Center Building

General Notes for Soil Sampling and Classifications
General Site Location Map (DeLorme Street Atlas USA – 2014)
Site and Boring Location Plan
Cross Section Profile
Summary of Encountered Subsurface Conditions
Test Boring Logs (B-1 to B-4)



**GEOTECHNICAL
CONSULTANTS INC.**

MAIN OFFICE
720 Greencrest Drive
Westerville, OH 43081
614.895.1400 **phone**
614.895.1171 **fax**

YOUNGSTOWN OFFICE
8433 South Avenue
Building 1, Suite 1
Boardman, OH 44514
330.965.1400 **phone**
330.965.1410 **fax**

DAYTON OFFICE
2380 Bellbrook Avenue
Xenia, OH 45385
937.736.2053 **phone**

www.gci2000.com

GENERAL NOTES FOR SOIL SAMPLING AND CLASSIFICATIONS

BORINGS, SAMPLING AND GROUNDWATER OBSERVATIONS:

Drilling and sampling were conducted in accordance with procedures generally recognized and accepted as standard methods of exploration of subsurface conditions. The borings were drilled using a truck-mounted drill rig using auger boring methods with standard penetration testing performed in each boring at intervals ranging from 1.5 to 5.0 feet. The stratification lines on the logs represent the approximate boundary between soil types at that specific location and the transition may be gradual.

Water levels were measured at drill locations under conditions stated on the logs. This data has been reviewed and interpretations made in the text of the report. Fluctuations in the level of the groundwater may occur due to other factors than those present at the time the measurements were made.

The Standard Penetration Test (ASTM-D-1586) is performed by driving a 2.0 inch O.D. split barrel sampler a distance of 18 inches utilizing a 140 pound hammer free falling 30 inches. The number of blows required to drive the sampler each 6 inches of penetration are recorded. The summation of the blows required to drive the sampler for the final 12 inches of penetration is termed the Standard Penetration Resistance (N). Soil density/consistency in terms of the N-value is as follows:

COHESIONLESS DENSITY		COHESIVE CONSISTENCY	
0-10	Loose	0-4	Soft
10-30	Medium Dense	4-8	Medium Stiff
30-50	Dense	8-15	Stiff
50 +	Very Dense	15-30	Very Stiff
		30 +	Hard

SOIL MOISTURE TERMS

Soil Samples obtained during the drilling process are visually characterized for moisture content as follows:

MOISTURE CONTENT	DESCRIPTION
Damp	Soil moisture is much drier than the Atterberg plastic limit (where soils are cohesive) and generally more than 3% below Standard Proctor "optimum" moisture conditions. Soils of this moisture generally require added moisture to achieve proper compaction.
Moist	Soil moisture is near the Atterberg plastic limit (cohesive soils) and generally within $\pm 3\%$ of the Standard Proctor "optimum" moisture content. Little to no moisture conditioning is anticipated to be required to achieve proper compaction and stable subgrades.
Very Moist	Soil moisture conditions are above the Atterberg plastic limit (cohesive soils) and generally greater than 3% above Standard Proctor "optimum" moisture conditions. Drying of the soils to near "optimum" conditions is anticipated to achieve proper compaction and stable subgrades.
Wet	Soils are saturated. Significant drying of soils is anticipated to achieve proper compaction and stable subgrades.

SOIL CLASSIFICATION PROCEDURE:

Soil samples obtained during the drilling process are preserved in plastic bags and visually classified in the laboratory. Select soil samples may be subjected to laboratory testing to determine natural moisture content, gradation, Atterberg limits and unit weight. Soil classifications on logs may be adjusted based on results of laboratory testing.

Soils are classified in accordance with the ASTM version of the Unified Soil Classification System. ASTM D-2487 "Classification of Soils for Engineering Purposes (Unified Soil Classification System) describes a system for classifying soils based on laboratory testing. ASTM D-2488 "Description and Identification of Soil (Visual-Manual Procedure) describes a system for classifying soils based on visual examination and manual tests.

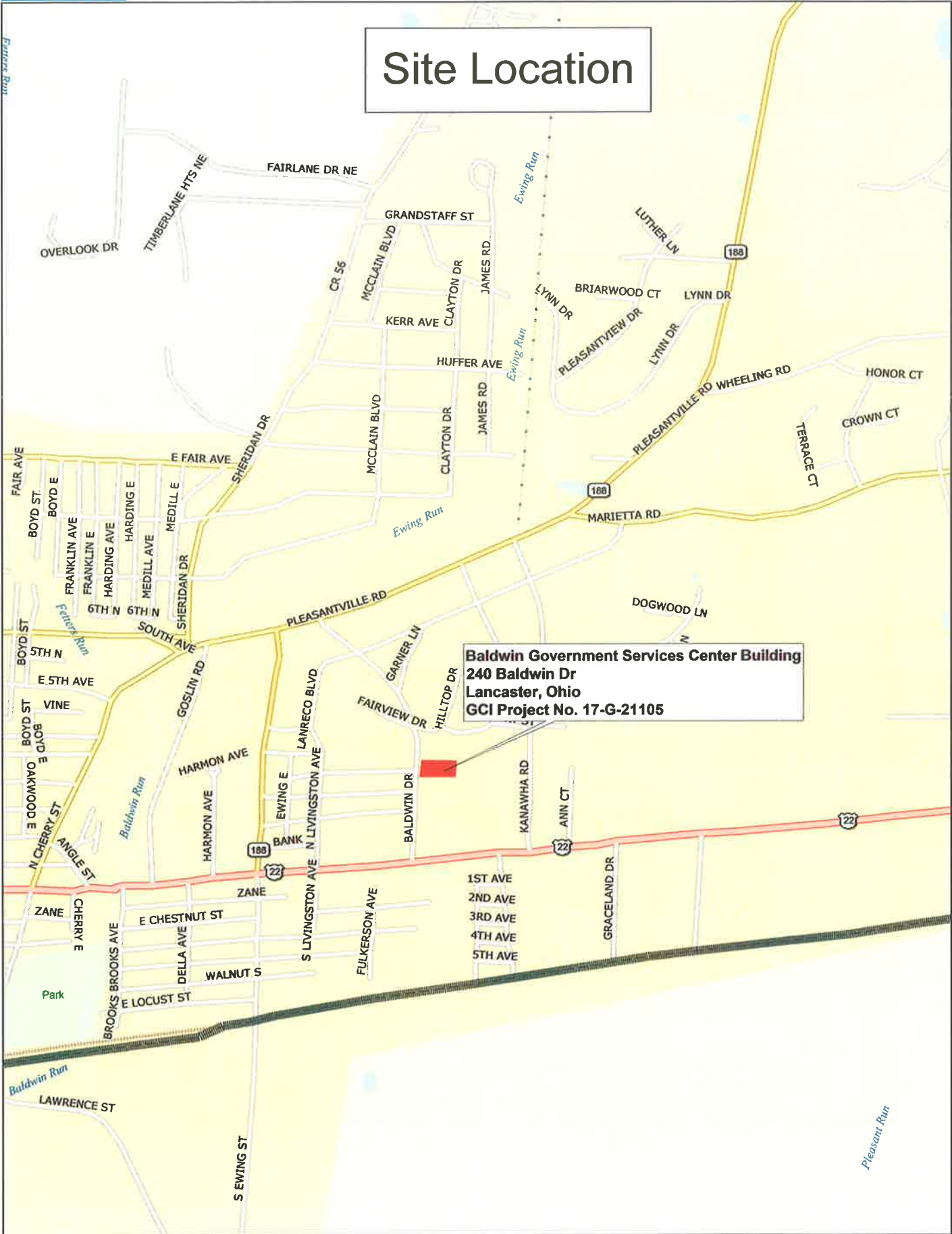
Soil classifications are based on the following tables (see reverse side):

GENERAL NOTES FOR SOIL SAMPLING AND CLASSIFICATIONS

PARTICLE SIZE DEFINITION		CONSTITUENT MODIFIERS	
Boulders:	>12"		
Cobbles:	3" to 12"	Trace	Less than 5%
Gravel:	Coarse: 3/4" to 3"	Few	5-10%
	Fine: No. 4 (3/16") to 3/4"	Little	15-25%
Sand:	Coarse No. 10 (2.0mm) to No. 4 (4.75mm)	Some	30-45%
	Medium No. 40 (0.425mm) to No. 10 (2.0mm)	Mostly	50-100%
	Fine No. 200 (0.074mm) to No. 40 (0.425mm)		
Silt & Clay	<0.074mm; classification based on overall plasticity; in general clay particles <0.005mm.		

ASTM/UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART		
COARSE-GRAINED SOILS (more than 50% of materials is larger than No. 200 sieve size)		
GRAVELS More than 50% of coarse fraction larger than No. 4 sieve size	<i>Clean Gravel (less than 5% fines)</i>	
	GW	Well-graded gravel, gravel-sand mixtures, little or no fines
	GP	Poorly-graded gravels, gravel sand mixtures, little or no fines
	<i>Gravels with fines (more than 12% fines)</i>	
	GM	Silty gravels, gravel-sand-silt mixtures
SANDS More than 50% of coarse fraction smaller than No. 4 sieve size	GC	Clayey gravels, gravel-sand-clay mixtures
	<i>Clean Sands (Less than 5% fines)</i>	
	SW	Well-graded sands, gravelly sands, little or no fines
	SP	Poorly-graded sands, gravelly sands, little or no fines
	<i>Sands with fines (More than 12% fines)</i>	
SM	Silty sands, sand-silt mixtures	
SC	Clayey sands, sand-clay mixtures	
Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:		
Less than 5 percentGW, GP, SW, SP		
Greater than 12 percentGM, GC, SM, SC		
5 to 12 percentBorderline cases requiring dual symbols: SP-SM, GP-GM, etc.		
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size)		
SILTS AND CLAYS Liquid Limit less than 50%	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
	CL	Inorganic clays or low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
	CL-ML	Inorganic silty clay of slight plasticity, P.I. between 4 and 7
	OL	Organic silts and organic silty clays of low plasticity
SILTS AND CLAYS Liquid Limit 50% or greater	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
	CH	Inorganic clays of high plasticity, fat clays
	OH	Organic clays or medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS	PT	Peat and other highly organic soils

Site Location

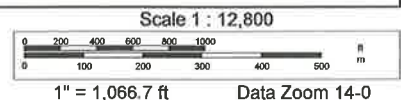


Baldwin Government Services Center Building
 240 Baldwin Dr
 Lancaster, Ohio
 GCI Project No. 17-G-21105

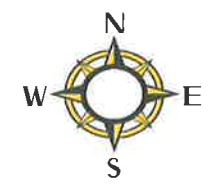
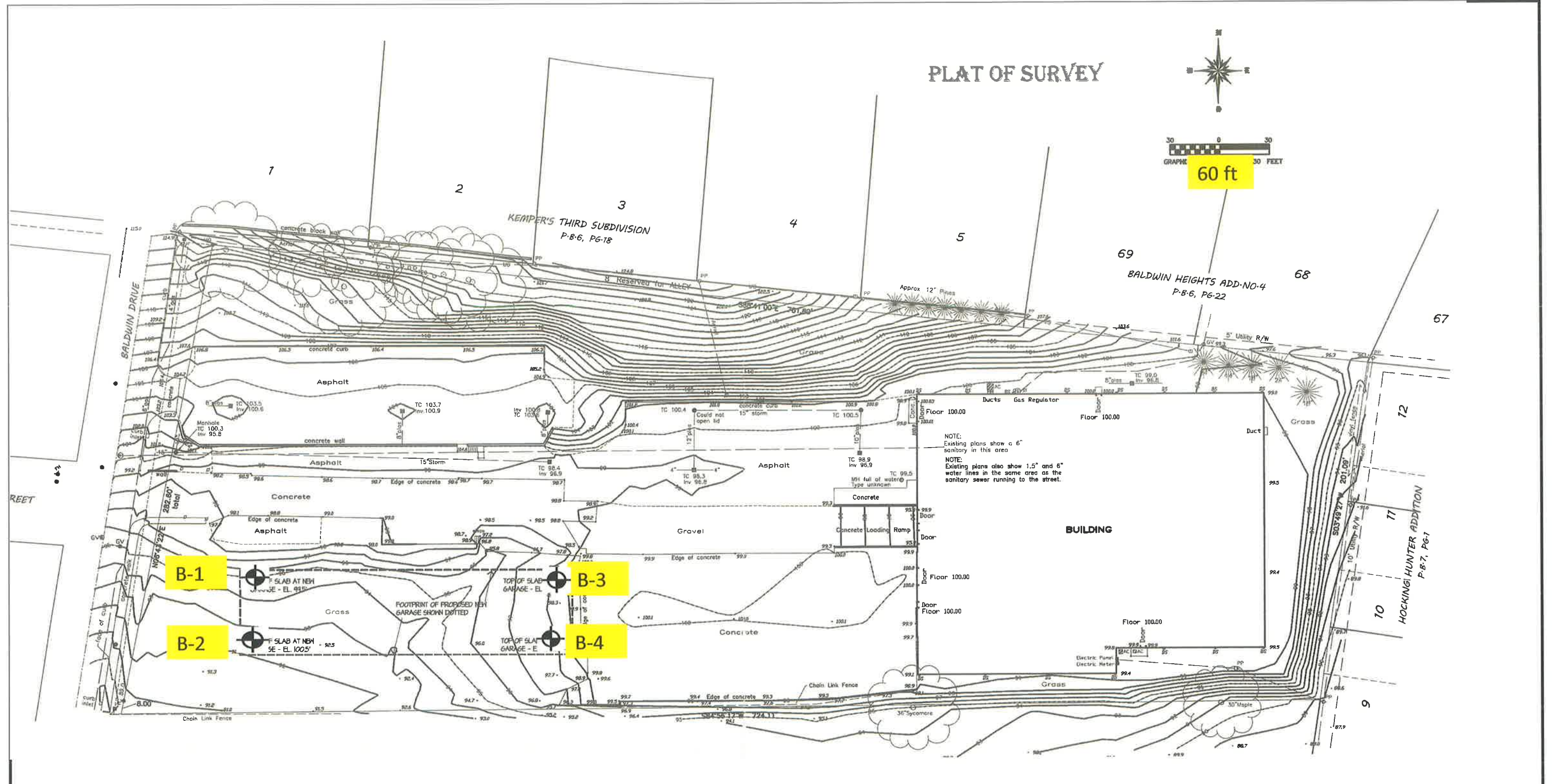
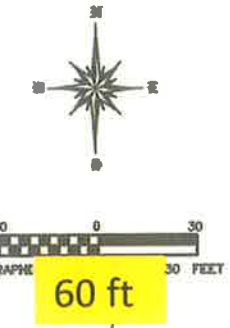
Data use subject to license.

© DeLorme. DeLorme Street Atlas USA® 2014.

www.delorme.com



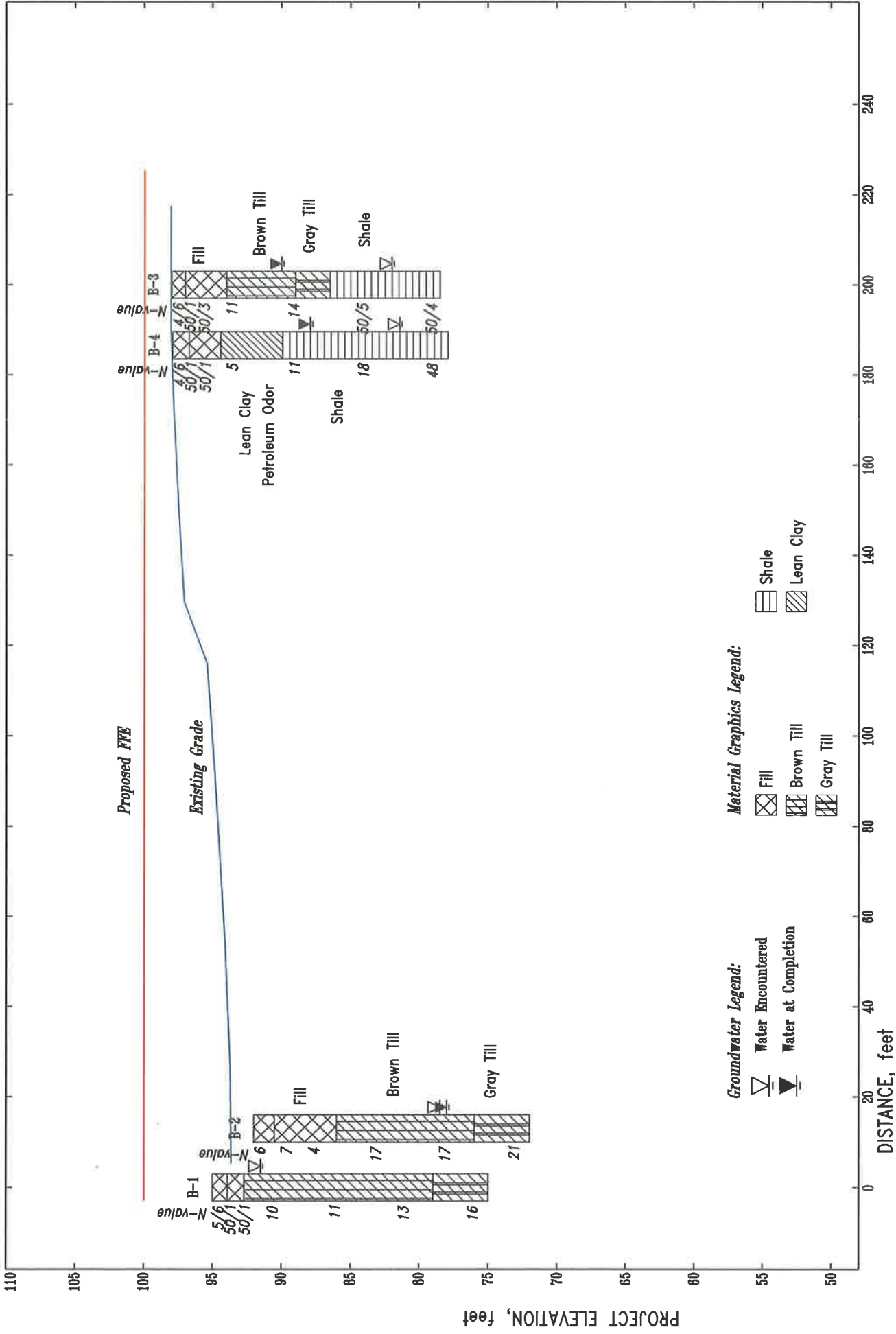
PLAT OF SURVEY



Approximate Boring Location

SITE & BORING LOCATION PLAN	
Baldwin Government Services Center Building	
240 Baldwin Drive - Lancaster, Ohio	
Base Map: VPL Architects	
Project No.: 17-G-21105	
Date: 9/13/17	Drawn By: koc
Scale: as shown	





SOIL PROFILE:

Baldwin Government Services Center Building - 240 Baldwin Drive - Lancaster, Ohio

Geotechnical Consultants, Inc. - Westerville, Ohio 43081

Job No.:	17-G-21105
Date:	September, 2017
Vertical Scale:	1" = 10.0'
Horizontal Scale:	1" = 30.0'

Summary of Encountered Subsurface Conditions

Baldwin Government Services Center Building
 240 Baldwin Drive - Lancaster, Ohio
 GCI Job Number: 17-G-21105

Borehole	Surface Elevation (feet) *	Surface Layer	Bottom of Fill Cover (feet)	Groundwater: Level Encountered (ft)		Groundwater: Level at Completion (ft)		Depth to Top of Lean Clay (ft)	Depth to Top of Brown Till (ft)	Depth to Top of Gray Till (ft)	Depth to Top of Bedrock (ft)	Bottom of Boring Depth (ft)
				Depth	Elevation*	Depth	Elevation*					
B-1	95.0	Fill	2.3	3.5	91.5	--	--	2.3	16.0	20.0	20.0	
B-2	92.0	Fill	6.0	13.5	78.5	14	78.0	6.0	16.0	20.0	20.0	
B-3	98.0	Fill	4.0	16	82.0	8	90.0	4.0	9.0	11.5	19.3	
B-4	98.0	Fill	3.5	16.5	81.5	10	88.0	3.5	--	8.0	20.0	



TEST BORING LOG

PROJECT NAME Baldwin Government Services Center Building - 240 Baldwin Drive - BORING NO. B-1
Lancaster, Ohio PROJ. SURF. ELEV. 95.0 ±
 CLIENT Fairfield County Commissioners NO. 17-G-21105 DATE DRILLED 9/7/2017

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler			
None FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace	Less than 5%		Cohesionless Density		Cohesive Consistency	
				Few	5 to 10%		0 - 10	Loose	0 - 4	Soft
				Little	15 to 25%		10 - 30	Medium Dense	4 - 8	Medium Stiff
				Some	30 to 45%		30 - 50	Dense	8 - 15	Stiff
				Mostly	50 to 100%		50 +	Very Dense	15 - 30	Very Stiff
									30 +	Hard
LOCATION OF BORING See Boring Location Plan										
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness	
				0-6	6-12	12-18				
	4.5	0.0-1.1	SS	4	5	50/1	Moist		FILL: Brown Lean Clay with Sand, Trace Topsoil FILL: Concrete	
								1.1		
	NR	2.0	SS	50/1			Moist	2.3		
									Brown Lean Clay with Sand (CL) - glacial till contains 15-20% sand, 5-10% gravel, low plasticity Water Seepage at 3.5'	
5	4.0	4.0-5.5	SS	2	4	6	Very Moist to Wet			
									Layers of sand and gravel	
	2.0	8.5-10.0	SS	4	5	6	Very Moist to Wet			
10										
									BOTTOM OF BORING: 20'	
	NR	13.5-15.0	SS	11	6	7	Wet			
15										
								16.0	Gray Sandy Lean Clay (CL) - glacial till contains 20-30% sand, <5% gravel, low plasticity	
	4.0	18.5-20.0	SS	5	7	9	Moist			
								20.0		

* The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



TEST BORING LOG

PROJECT NAME **Baldwin Government Services Center Building - 240 Baldwin Drive -** BORING NO. **B-2**
Lancaster, Ohio PROJ. SURF. ELEV. **92.0 ±**
 CLIENT **Fairfield County Commissioners** NO. **17-G-21105** DATE DRILLED **9/7/2017**

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler				
14.0 FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace	Less than 5%		Cohesionless Density		Cohesive Consistency		
				Few	5 to 10%		0 - 10	Loose	0 - 4	Soft	
				Little	15 to 25%		10 - 30	Medium Dense	4 - 8	Medium Stiff	
				Some	30 to 45%		30 - 50	Dense	8 - 15	Stiff	
				Mostly	50 to 100%		50 +	Very Dense	15 - 30	Very Stiff	
									30 +	Hard	
LOCATION OF BORING See Boring Location Plan											
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness		
				0-6	6-12	12-18					
	3.0	0.0-1.5	SS	3	3	3	Moist		FILL: Brown Lean Clay with Sand, Few to Little Topsoil		
								1.5	FILL: Brown Lean Clay with Sand, Brick, Concrete		
	2.0	2.0-3.5	SS	2	5	2	Very Moist				
	3.5	4.0-5.5	SS	2	2	2	Very Moist				
5								6.0	Brown Lean Clay with Sand (CL) - glacial till contains 15-20% sand, 5-10% gravel, low plasticity		
	4.5	8.5-10.0	SS	5	7	10	Moist				
10											
	3.5	13.5-15.0	SS	6	8	9	Very Moist to Wet		Water Seepage at 13.5' Layers of sand and gravel		
15								16.0	Gray Sandy Lean Clay with Gravel (CL) - glacial till contains 20-30% sand, 10-15% gravel, low plasticity		
									BOTTOM OF BORING: 20'		
	4.5	18.5-20.0	SS	6	10	11	Very Moist				
								20.0			

* The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



TEST BORING LOG

PROJECT NAME Baldwin Government Services Center Building - 240 Baldwin Drive - BORING NO. B-3
Lancaster, Ohio PROJ. SURF. ELEV. 98.0 ±
 CLIENT Fairfield County Commissioners NO. 17-G-21105 DATE DRILLED 9/7/2017

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler			
8.0 FEET BELOW SURFACE AT COMPLETION				Trace	Less than 5%		Cohesionless Density		Cohesive Consistency	
____ FEET BELOW SURFACE AT 24 HOURS				Few	5 to 10%		0 - 10	Loose	0 - 4	Soft
____ FEET BELOW SURFACE AT ____ HOURS				Little	15 to 25%		10 - 30	Medium Dense	4 - 8	Medium Stiff
				Some	30 to 45%		30 - 50	Dense	8 - 15	Stiff
				Mostly	50 to 100%		50 +	Very Dense	15 - 30	Very Stiff
									30 +	Hard
LOCATION OF BORING See Boring Location Plan										
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION Remarks include color, type of soil, etc. Rock-color, type, condition, hardness	
				0-6	6-12	12-18				
	4.5	0.0-1.1	SS	3	4	50/1	Moist	1.0	FILL: Brown Lean Clay with Sand, Few to Little Topsoil	
									FILL: Concrete, Brown Lean Clay with Sand	
	---	2.0-2.8	SS	17	50/3		Moist	4.0		
5	4.5	4.0-5.5	SS	4	5	6	Moist		Brown Lean Clay with Sand (CL) - glacial till contains 15-20% sand, 5-10% gravel, iron staining, low plasticity	
10	4.5	8.5-10.0	SS	5	6	8	Moist	9.0	Gray Sandy Lean Clay with Gravel (CL) - glacial till contains 20-30% sand, 10-15% gravel, low plasticity	
								11.5	SHALE: gray, highly weathered	
15	NR	13.5-14.4	SS	21	50/5		Moist		Water Seepage at 16'	
	4.5	18.5-19.3	SS	22	50/4		Moist	19.3	BOTTOM OF BORING: 19.3'	

* The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



TEST BORING LOG

PROJECT NAME **Baldwin Government Services Center Building - 240 Baldwin Drive -** BORING NO. **B-4**
Lancaster, Ohio PROJ. SURF. ELEV. **98.0 ±**
 CLIENT **Fairfield County Commissioners** NO. **17-G-21105** DATE DRILLED **9/7/2017**

GROUND WATER OBSERVATION				Proportions Used			140 lb Wt. x 30" fall on 2" O.D. Sampler					
10.0 FEET BELOW SURFACE AT COMPLETION _____ FEET BELOW SURFACE AT 24 HOURS _____ FEET BELOW SURFACE AT _____ HOURS				Trace Less than 5% Few 5 to 10% Little 15 to 25% Some 30 to 45% Mostly 50 to 100%			Cohesionless Density		Cohesive Consistency			
							0 - 10	Loose	0 - 4	Soft		
							10 - 30	Medium Dense	4 - 8	Medium Stiff		
							30 - 50	Dense	8 - 15	Stiff		
							50 +	Very Dense	15 - 30	Very Stiff		
									30 +	Hard		
LOCATION OF BORING See Boring Location Plan												
DEPTH	Pocket Penetrometer (tsf)	Sample Depths From To	Type of Sample	Blows per 6" on Sampler From To			Moisture Density or Consist.	Strata Change Depth*	SOIL IDENTIFICATION			
				0-6	6-12	12-18			Remarks include color, type of soil, etc. Rock-color, type, condition, hardness			
	NR	0-1.1	SS	4	4	50/1	Moist	1.2	FILL: Brown Lean Clay with Sand, Trace Topsoil			
								3.5	FILL: Concrete, Brown Lean Clay with Sand			
	NR	2.0-2.1	SS	50/1			Very Moist		Stained Brown Lean Clay (CL) contains 5-10% sand, moderate plasticity			
5	2.5	4.0-5.5	SS	1	2	3	Very Moist		SLIGHT PETROLEUM ODOR			
								8.0	SHALE: brown, highly weathered, iron staining			
10	4.5	8.5-10.0	SS	4	5	6	Moist		SHALE: gray, highly weathered			
								14.0	Water Seepage at 16.5'			
15									BOTTOM OF BORING: 20'			
	4.5	18.5-20.0	SS	15	21	27	Moist	20.0				

* The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

