



City of Gahanna

200 South Hamilton
Road
Gahanna, Ohio 43230

Signature

Ordinance: ORD-0011-2024

File Number: ORD-0011-2024

**AN ORDINANCE AUTHORIZING THE MAYOR TO ENTER INTO CONTRACT WITH
STRAWSER PAVING COMPANY FOR THE TAYLOR STATION ROAD AND
CLAYCRAFT ROAD ROUNDABOUT PROJECT (ST-1087); AND AUTHORIZING A
SUPPLEMENTAL APPROPRIATION - OPWC Capital Project**

WHEREAS, on February 10, 2024, bids were opened and reviewed for the Taylor Station Road-Claycraft Road Roundabout Project (ST-1087); and

WHEREAS, in total, eight bids were received; and

WHEREAS, the project consists of constructing a modern roundabout at the intersection of Taylor Station Road, Claycraft Road, and Research Road, including concrete curbs, asphalt paving, concrete base, sidewalk, shared use path, water mains, storm sewers, street lighting, signing, pavement markings, and landscaping; and

WHEREAS, Strawser Paving Company was the lowest responsive and responsible bidder; and

WHEREAS, the Department of Engineering recommends entering into contract with Strawser Paving Company for the Taylor Station Road and Claycraft Road Roundabout Project, awarding the Base bid of \$2,196,898.50 and Alternate 1 - Electronic Sign Boards of \$94,000.00, with a 10 percent contingency to cover any unforeseen construction costs, bringing the total to \$2,510,588.35; and

WHEREAS, the Administration requests a supplemental appropriation in the amount of \$999,999 to be reimbursed by the Ohio Public Works Commission (OPWC) once grant funds are received.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF GAHANNA, COUNTY OF FRANKLIN, STATE OF OHIO:

Section 1. That the Mayor is hereby authorized award the Base bid and Alternate 1 and to enter into contract with Strawser Paving Company, primary offices located at 1595 Frank Road, Columbus, OH 43223, for the Taylor Station Road - Claycraft Road Roundabout Project (ST-1087); said contract's terms more particularly described in EXHIBIT A, attached hereto and made a part herein.

Section 2. That funding for this project in the amount of one million five hundred ten thousand five hundred eighty-nine dollars and thirty-five cents (\$1,510,589.35) has already been appropriated and approved as follows:

*from 652.11.000.5500 (2024 Appropriations) WA Capital Fund: \$352,307.22
from 631.11.000.5500 (2024 Appropriations) SW Capital Fund: \$263,709.23
and from 224.11.020.5505 (Prior Year Funds): \$894,572.90*

Section 3. That funding for this project in the amount of nine hundred ninety-nine thousand nine hundred ninety-nine dollars (\$999,999) is hereby supplementally appropriated from the unappropriated, unencumbered balance of the OPWC Fund (3230) to the account as follows:

323.11.000.5505 (OPWC Capital Project) Grant/Loan: \$999,999

Section 4. That this Ordinance shall be in full force and effect after passage by Council and on date of signature

of approval by the Mayor.

At a regular meeting of the City Council on March 18, 2024, a motion was made by Schnetzler,
seconded by Renner, that this Ordinance be Adopted. The vote was as follows:

Ms. Bowers, yes; Ms. Jones, yes; Ms. McGregor, yes; Ms. Padova, yes;
Mr. Renner, yes; Mr. Schnetzler, yes; Mr. Weaver, yes.

President Merisa K Bowers
Merisa K. Bowers

Date 3/19/24

Attest by Jeremy A. VanMeter
Jeremy A. VanMeter
Clerk of Council

Date 3/19/2024

Approved by the Mayor Laurie A. Jadwin
Laurie A. Jadwin

Date 3.19.2024

Approved as to Form PDT
Priya D. Tamilarasan
City Attorney

Date 3/18/24

ORD-0011-2024

EXHIBIT A



City of Gahanna
Department of Engineering
200 South Hamilton Road • Gahanna, OH 43230
614.342.4050 Phone • engineering@gahanna.gov • www.gahanna.gov

INVITATION FOR BID

TAYLOR STATION ROAD-CLAYCRAFT ROAD ROUNABOUT ST-1087

BID OPENING DATE: FEBRUARY 9, 2024 AT 11:00AM, LOCAL TIME

Strawser Paving Company

Company Name Submitting Bid

1595 Frank Rd

Street Address

Columbus, OH 43223

City, State, Zip

(614) 276-5273

Telephone Number

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NOTICE TO BIDDERS

Sealed bids will be received by the City of Gahanna, Ohio ("Owner") until **11:00 am**, local time, on **February 9, 2024** through the Owner's electronic bidding system for all labor, material, and services necessary for the **Taylor Station Road-Claycraft Road Roundabout, ST-1087** (the "Project"), as more fully described in the Contract Documents prepared by the City of Gahanna. Bids received after this time will not be accepted. Bids will be opened publicly and read immediately thereafter. Subject to the right of the Owner to reject any or all bids, the Owner will award contracts to the bidder(s) submitting the lowest and best bid(s).

Engineer's Estimate:
\$2,480,000 (Base Bid)
\$80,000 (Alternate Bid)

The Owner utilizes an online electronic bidding system through BidExpress as its sole method of bid submission for projects and contracts that are subject to competitive bidding. Bidders new to the Owner's electronic bidding system must first register on the BidExpress website (www.bidexpress.com) to create an InfoTech Digital ID which is used to digitally sign bids. Registration is free. It can take up to five (5) business days to process a digital ID and it is highly recommended that a Digital ID be enabled 48-hours in advance of submitting an electronic bid. Bidders must plan accordingly. For additional guidance regarding the owner's electronic bidding system, bidders must contact Bid Express directly.

The Project consists of constructing a modern roundabout intersection at the intersection of Taylor Station Road, Claycraft Road, and Research Road including concrete curbs, asphalt paving, concrete base, sidewalk, shared use path, water mains, storm sewers, street lighting, signing, pavement markings, and landscaping. It is anticipated that notice to proceed will be issued to the awarded contractor on **April 1, 2024** with a substantial completion date of **November 1, 2024**.

Copies of the bid documents may be obtained through the Owner's electronic bidding system.

All bids must be accompanied by a Bid Guaranty and Contract Bond for the full amount of the bid (including all add alternates) as described in the Information and Requirements for Bidders. If State or Federal Labor Standards Provisions and State Wage Decisions are applicable to this project they will be a part of the Contract Documents.

No Bidder may withdraw its bid within sixty (60) days after the bid opening. The Owner reserves the right to waive irregularities in bids, to reject any or all bids, and to conduct such investigation as necessary to determine the lowest and best bidder for each contract.

Tom Komlanc, Director of Engineering

Advertise: January 11, 2024, January 18, 2024, January 25, 2024

INFORMATION AND REQUIREMENTS FOR BIDDERS

Information and Requirements for Bidders Coversheet (the "Coversheet")

Each Bidder shall be responsible for submitting its Bid in accordance with the instructions in this Information and Requirements for Bidders, for the bid opening, before **11:00 AM** (local time) on **February 9, 2024** (the "Bid Deadline").

The Bid shall be submitted through the Owner's electronic bidding system, as its sole method of bid submission for projects and contracts that are subject to competitive bidding. Bidders new to the Owner's electronic bidding system must first register on the BidExpress website (www.bidexpress.com) to create an InfoTech Digital ID which is used to digitally sign bids. Registration is free. It can take up to five (5) business days to process a Digital ID and it is highly recommended that a Digital ID be enabled 48 hours in advance of submitting an electronic bid. Bidders must plan accordingly. For additional guidance regarding the Owner's electronic bidding system, bidders must contact Bid Express directly. Each Bidder shall be responsible for submitting its electronic Bid as instructed by the Owner, before the Bid Deadline.

The Design Professional (referred to as the "Design Professional" or "Engineer" in the Contract Documents) is:

EMH&T
5500 New Albany Road
Columbus, OH 43054
614-512-3817

If no other individual is named, then the City Engineer shall be considered to be the Project Design Professional.

The Design Professional's Representative is: Andy Kushmeider

The Project and Work for the Project consists of all labor, materials, equipment, and services necessary for the **Taylor Station Road-Claycraft Road Roundabout, ST-1087** (the "Project").

The Date for Substantial Completion is: **November 1, 2024**.

The total estimated construction cost for the base bid Work on the Project for which bids are being solicited at this time is: **\$2,480,000**

A complete set of the Contract Documents may be obtained through the Owner's electronic bidding system.

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- B. EXAMINATION OF CONTRACT DOCUMENTS AND SITE CONDITIONS AND RELIANCE UPON TECHNICAL DATA
- C. OWNER & DESIGN PROFESSIONAL
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A. BIDDER'S PLEDGE AND AGREEMENT

1. Each Bidder acknowledges that this is a public project involving public funds and that the Owner expects and requires that each successful Bidder adhere to the highest ethical and performance standards. Each Bidder by submitting a bid pledges and agrees that (a) it will act at all times with absolute integrity and truthfulness in its dealings with the Owner and the Design Professional, (b) it will use its best efforts to cooperate with the Owner and the Design Professional and all other Contractors on the Project and at all times will act with professionalism and dignity in its dealings with the Owner, Design Professional, and other Contractors, (c) it will assign only competent supervisors and workers to the Project, each of whom is fully qualified to perform the tasks that are assigned to him/her, and (d) it has read, understands and will comply with the terms of the Contract Documents.

B. EXAMINATION OF CONTRACT DOCUMENTS AND SITE CONDITIONS AND RELIANCE UPON TECHNICAL DATA

1. Each Bidder shall have a competent person carefully and diligently review each part of the Contract Documents, including the Divisions of the Specifications and parts of the Drawings that are not directly applicable to the Work on which the Bidder is submitting its bid. By submitting its bid, each Bidder represents and agrees, based upon its careful and diligent review of the Contract Documents, that it is not aware of any conflicts, inconsistencies, errors, or omissions in the Contract Documents for which it has not notified the Owner using BidExpress at least seven (7) days prior to the bid opening. If there are any such conflicts, inconsistencies, errors, or omissions in the Contract Documents, the Bidder (i) will provide the labor, equipment, or materials of the better quality or greater quantity of Work and/or (ii) will comply with the more stringent requirements. The Bidder will not be entitled to any additional compensation for any conflicts, inconsistencies, errors, or omissions that would have been discovered by such careful and diligent review, unless it has given prior written notice to the Owner.
2. Each Bidder shall have a competent person carefully and diligently inspect and examine the entire site and the surrounding area, including all parts of the site applicable to the Work for which it is submitting its bid, including location, condition, and layout of the site and the location of utilities, and carefully correlate the results of the inspection with the requirements of the Contract Documents. The Bidder's bid shall include all costs attributable to site and surrounding area conditions that would have been discovered by such careful and diligent inspection and examination of the site and the surrounding area, and the Bidder shall not be entitled to any Change Order, additional compensation, or additional time on account of such conditions.
3. The Bidder may rely upon the general accuracy of any technical data included in the Project Manual (e.g., soils exploration reports, soil boring logs, site survey, or abatement reports) in preparing its bid, but such technical data are not part of the Contract Documents. Except for the limited reliance described in the preceding sentence, Bidder may not, if awarded a contract for the Work, rely upon or make any Claim against the Owner or Design Professional, or any of their agents or employees, with respect to any of the following:
 - (a) the completeness of such reports and drawings for Bidder's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by the successful Bidder and safety precautions and programs incident thereto;
 - (b) other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or

- (c) any interpretation by the successful Bidder of or conclusion drawn from any technical data or any such other data, interpretations, opinions, or information. For example, all interpolations and extrapolations of data performed by the Bidder to estimate locations or quantities of subsurface strata are independent factual assumptions, which Owner does not warrant.

C. OWNER & DESIGN PROFESSIONAL

- 1. The Owner is:

City of Gahanna

Telephone: 614-342-4050

Fax: 614-342-4100

The Owner's Representative is **Tom Komlanc**.

- 2. The Design Professional (referred to as the "Design Professional" or "Engineer" in the Contract Documents) is set forth in the Coversheet.

D. PROJECT

- 1. The Project and Work for the Project consists of all labor, materials, equipment, and services necessary for the Project as identified in the Coversheet, all in accordance with the Drawings and Specifications prepared by the Design Professional. The Project will be substantially complete by the Date for Substantial Completion, identified in the Coversheet.

E. WORK

- 1. The Project consists of the contract(s) for work on the Project identified in the Coversheet. Individual bid package estimates are provided for the Bidder's information only.

F. ESTIMATE OF COST

- 1. The total estimated construction cost for the Work on the Project for which bids are being solicited at this time is set forth in the Coversheet.

G. CONTRACT DOCUMENTS

1. The Contract Documents consist of the Contract Documents listed in Section 1 of the Owner-Contractor Agreement.

A complete set of the Contract Documents may be obtained through the Owner's electronic bidding system.

Bidders shall use complete sets of Contract Documents in preparing bids. Neither the Owner nor the Design Professional assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Contract Documents.

The Owner or the Design Professional, in making the Contract Documents available on the above terms, does so only for the purpose of obtaining bids on the Work and does not confer a license or grant for any other use.

H. PREPARATION OF BIDS

1. All bid documents in **Appendix C** must be completed and submitted at the time of the bid opening including but not limited to a Bid Guaranty. See Section H.7 below. All bids must be submitted on the Bid Form furnished with the Contract Documents.
2. Fill in all blank spaces, in ink or typewritten, in words and figures, and in figures only where no space is provided for words: sign the Bid Form. The wording on the Bid Form shall be used without change, alteration, or addition. Any change in the wording or omission of specified accompanying documents may cause the bid to be rejected. If there is an inconsistency or conflict in the bid amount, the lowest amount shall control, whether expressed in numbers or words.
3. Bidders shall note receipt of all Addenda by signing and including as an attachment under the Contractor's Qualifications Statement (Additional Material) section on BidExpress. If the Bidder fails to acknowledge receipt of each Addendum, the Bid shall be deemed non-responsive, unless the Bid amount clearly and unambiguously reflects receipt of the Addendum or the Addendum involves only a matter of form and does not affect the price, quantity, or quality of the Work to be performed in any material manner.
4. Each Bidder shall submit their bid only through the Owner's electronic bidding system as set forth in the Coversheet. A Bidder that is a corporation shall sign its bid with the legal name of the corporation followed by the name of the state of incorporation and the legal signature of an officer authorized to bind the corporation to a contract.
5. The completed Bid Form shall be accompanied by the following documents: All bid documents in **Appendix C** located on BidExpress.
6. The Bidder shall take the following precautions in preparing its bid:
 - a. Sign the bid and check to insure all blank spaces have been filled in with requested information and the specified accompanying documents (listed in Item 5 above).
 - b. When the Bid Form provides for quoting either an addition or deduction for an Alternate item, indicate whether the sum named is an addition or deduction. If it is not indicated, it will be conclusively presumed that the amount is a deduction.
 - c. When the Bid Form provides for quoting a unit price, the Bidder should quote the unit price as set forth in the Bid Documents.
 - d. When applicable, make sure that the Bid Guaranty is properly executed and signed by:

- 1) The Bidder
 - 2) The Surety or Sureties
- e. The form of Bid Guaranty must be a Bid Guaranty and Contract Bond and the amount may be left blank; if an amount is inserted, it must equal the total of the base bid and all add alternates included. If an amount is inserted, the failure to state an amount equal to or greater than the total of the base bid and all add alternates that are accepted shall make the bid non-responsive.
- f. Make sure that the appropriate bid package and scope of work is inserted in the correct space on the Bid Guaranty and Contract Bond Form. Failure to include work covered by the bid submitted may make the bid non-responsive.
- g. Combination Bids. The Owner may provide the option of submitting a combination bid on the Bid Form.
- (1) When there is an option for submitting a combination bid on the Bid Form, a Bidder desiring to submit a combination bid for two or more bid packages shall include both of the following on the Bid Form:
 - (a) the combination bid amount in the space provided, identifying the bid packages included in the combination bid amount; AND
 - (b) separate base bids for each bid package, including alternates, included in the combination bid in the places provided on the Bid Form for the individual bid packages.

NOTE: The individual cost amounts of each base bid need not total the combination bid amount.

7. Bonds and Guarantees

- a. Bid Guaranty: Bidder shall furnish a Bid Guaranty, in the form of a bond for the full amount of the bid in the form of the Bid Guaranty and Contract Bond included in the Contract Documents. Failure to include the Bid Guaranty in such form may make the bid non-responsive. The Bid amount shall be the total of all sums bid, including all add alternates with no deduction for any deduct alternates. NOTE: AIA Bid Bond forms are not acceptable. Alternate bid guaranty forms are not acceptable.
- b. The bond must be issued by a surety company ("Surety") authorized by the Ohio Department of Insurance to transact business in the State of Ohio and acceptable to the Owner. The bond must be issued by a Surety capable of demonstrating a record of competent underwriting, efficient management, adequate reserves, and sound investments. These criteria will be deemed to be met if the Surety currently has an A.M. Best Company Policyholders Rating of "A-" better and has or exceeds the Best Financial Size Category of Class VI. Other Sureties may be acceptable to the Owner, in its sole discretion.
- c. All bonds shall be signed by an authorized agent of an acceptable Surety and by the Bidder.
- d. Surety bonds shall be supported by credentials showing the Power of Attorney of the agent, a certificate showing the legal right of the Surety to do business in the State of Ohio, and a financial statement of the Surety.
- e. The Bid Guaranty, as applicable, shall be in the name of or payable to the order of the Owner.

- f. The name, address, and telephone and fax numbers of the Surety and the Surety's Agent should be typed or printed on each bond.

I. METHOD OF AWARD

1. All bids shall remain open for acceptance for sixty (60) days following the day of the bid opening, but the Owner may, in its sole discretion, release any bid and return the Bid Guaranty prior to that date. The Bid Guaranty shall be subject to forfeiture, as provided in the Ohio Revised Code, if a bid is withdrawn during the period when bids are being held.
2. The Owner reserves the right to reject any, part of any, or all bids and to waive any informalities and irregularities. The Bidder expressly acknowledges this right of the Owner to reject any or all bids or to reject any incomplete or irregular bid. The Owner will award a single contract for each of the bid packages listed above or one or more combined contracts for combinations of the Bid Packages, unless it determines to reject one or more bid packages. Bidders must furnish all information requested on or accompanying the Bid Form. Failure to do so may result in disqualification of the bid.
3. Determination of the Bidder Submitting the Lowest and Best Bid. Subject to the right of the Owner to reject any or all bids, the Owner will award the Contract for the Work to the Bidder submitting the lowest and best bid, taking into consideration accepted alternates. In evaluating bids, the Owner may consider the qualifications of the Bidders, whether or not the bids comply with the prescribed requirements, and alternates and unit prices, if requested, on the Bid Form. The Owner may also consider the qualifications and experience of subcontractors and suppliers. The Owner may conduct such investigations as are deemed necessary to establish the qualifications and financial ability of the Bidder and its subcontractors and suppliers. The factors the Owner may consider in determining which Bidder submitted the lowest and best bid or which Bidders submitted the lowest and best bids include the factors set forth below. The Owner, in its discretion, may consider and give such weight to these criteria as it deems appropriate.
 - a. The Bidder's work history. The Bidder should have a record of consistent customer satisfaction and of consistent completion of projects, including projects that are comparable to or larger and more complex than the Owner's Project, on time and in accordance with the applicable Contract Documents, and the Bidder's claims history. If the Bidder's management operates or has operated another construction company, the Owner may consider the work history of that company in determining whether the Bidder submitted the lowest and best bid.

The Owner may consider the Bidder's prior experience on other projects with the Owner and Design Professional, including the Bidder's demonstrated ability to complete its work on these projects in accordance with the Contract Documents and on time, and will also consider its ability to work with the Owner and Design Professional as a willing, cooperative, and successful team member.

The Bidder authorizes the Owner and its representatives to contact the owners and design professionals (and construction managers, if applicable) on projects on which the Bidder has worked and authorizes and requests such owners and design professionals (and construction managers) to provide the Owner with a candid evaluation of the Bidder's performance. By submitting its bid, the Bidder agrees that if it or any person, directly or indirectly, on its behalf or for its benefit brings an action against any of such owners or design professionals (or construction managers) or the employees of any of them as a result of or related to such candid evaluation, the Bidder will indemnify and hold harmless such owners, design professionals (and construction managers) and the

employees of any of them from any claims whether or not proven that are part of or are related to such action and from all legal fees and expenses incurred by any of them arising out of or related to such legal action. This obligation is expressly intended for the benefit of such owners, design professionals (and construction managers), and the employees of each of them.

- b. The Bidder's financial ability to complete the Contract successfully and on time without resort to its Surety.
 - c. The Bidder's prior experience with similar work on comparable or more complex projects.
 - d. The Bidder's prior history for the successful and timely completion of projects, including the Bidder's history of filing and having claims filed against it.
 - e. The Bidder's equipment and facilities.
 - f. The adequacy, in numbers and experience, of the Bidder's work force to complete the Contract successfully and on time.
 - g. The Bidder's compliance with federal, state, and local laws, rules, and regulations, including but not limited to the Occupational Safety and Health Act, the Ohio Prevailing Wage laws, and Ohio ethics laws.
 - h. The foregoing information with respect to each of the Subcontractors and Suppliers that the Bidder intends to use on the Project.
 - i. The Bidder's participation in a drug-free workplace program acceptable to the Owner, and the Bidder's record for both resolved and unresolved findings of the Auditor of State for recovery as defined in Section 9.24 of the Ohio Revised Code.
 - j. The Owner's prior experience with the Bidder's surety.
 - k. The Bidder's interest in the Project as evidenced by its attendance at any pre-bid meetings or conferences for bidders.
 - l. The Bidder's ability to self-perform the work on the Project with the Bidder's own forces.
 - m. Depending upon the type of the work, other essential factors, as the Owner may determine and as are included in the Specifications.
4. By submitting its bid, the Bidder agrees that the Owner's determination of which bidder is the lowest and best bidder shall be final and conclusive, and that if the Bidder or any person or association on its behalf challenges such determination in any legal proceeding, the Bidder shall indemnify and hold the Owner and its employees and agents harmless from any claims included in or related to such legal proceeding, whether or not proven, and from legal fees and expenses incurred by the Owner, its employees, or agents that arise out of or are related to such challenge.
5. After approval by the Owner and Design Professional of the list of proposed Subcontractors, Suppliers, and manufactures submitted by the successful Bidder, the list shall not be changed unless written approval of the change is authorized by the Owner and Design Professional.
6. Affidavit as to Personal Property Taxes. Each successful Bidder shall submit, prior to the time of the entry into the Contract, an affidavit in the form required by Section 5719.042, Ohio Revised Code, regarding the status of the Bidder's personal property taxes. A copy of the affidavit form is included with the Contract Documents.

7. No Bidder may withdraw its bid within sixty (60) days after the date bids are opened. The Owner reserves the right to waive any formalities or irregularities or to reject any or all bids.
8. The Owner reserves the right to disqualify bids, before or after opening, upon evidence of collusion with intent to defraud or other illegal practices on the part of the Bidder.
9. Award of Contract. The award of the Contract, when required, will only be made pursuant to a duly adopted resolution of the Owner.

J. EXECUTION OF CONTRACT

1. Within 10 days after award of the Contract, the successful Bidder shall execute and deliver to the Owner the required number of copies of the Owner-Contractor Agreement, in the form included in the Contract Documents, and all accompanying documents requested, including, but not limited to, a Contract Bond (if applicable), insurance certificates, and a valid Workers' Compensation Certificate. The award of Contract notwithstanding, the successful Bidder shall have no property interest or rights under the Owner-Contractor Agreement until such time as the Owner-Contractor Agreement is executed by the successful bidder and the Owner.

K. SUBSTITUTIONS/NON-SPECIFIED PRODUCTS

1. Certain brands of material or apparatus may be specified. Each bid will be based on these brands, which may be referred to in the Contract Documents as Standards. The use of another brand (referred to as a substitution or proposed equal in the Contract Documents, when a bidder or the contractor seeks to have a different brand of material or apparatus than that specified approved by the Owner for use in the Project) may be requested as provided herein. Substitutions, however, will not be considered in determining the lowest and best bid.
2. The products specified in the Contract Documents establish a standard of required function, dimension, appearance, and quality.
3. Bidders wishing to obtain approval to bid non-specified products shall submit requests through Bid Express a minimum of ten (10) working days before the bid date and hour. To facilitate the submission of requests, the Bidder shall submit a form that includes the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution, including the name of the proposed manufacturer and/or product and a complete description of the proposed product including manufacturer's name and model number or system proposed, drawings, product literature, performance and test data, color selections or limitations, and any other information necessary for evaluation. Include a statement including any changes in other materials, equipment, or other work that would be required if the proposed product is incorporated in the materials, equipment, or other work that would be required if the proposed product is incorporated in the work. The burden of proof of the merit of the proposed product is on the proposer. The Owner's decision on approval of a proposed product will be final.

The following will be cause for rejection of a proposed substitution:

- a. Requests submitted by subcontractors, material suppliers, and individuals other than Bidders;
 - b. Requests submitted without adequate documentation;
 - c. Requests received after the specified cut-off date.
4. When the Design Professional approves a product submission before receipt of bids, the approval will be included in an Addendum, and Bidders may include the pricing of this product in their bid. Bidders shall not rely on approvals made in any other manner.

5. In proposing a non-specified product or a substitution, the Bidder represents and warrants that each proposed product will not result in any changes to the Project, including changes to the Work of other contractors, or any decrease in the performance of any equipment or systems to be installed in the Project and agrees to pay any additional costs incurred by the Owner and the Owner's consultants as a result of a non-specified or substitute product that is accepted.
6. Following the award of the Contract, there shall be no substitutions for specified products, except pursuant to a Change Order. The Owner in its sole discretion may decline to consider a substitution for a Change Order.

L. ALTERNATES

1. The Owner may request bids on alternates. If the Owner requests bids on alternates, the Bidder should include the cost of the alternates requested on its Bid Form.
2. At the time of awarding the contract, the Owner will select or reject alternates as it determines is in its best interest. A Bidder's failure to include on its Bid Form the cost of an alternate selected by the Owner and applicable to the Bidder's work shall render the bid non-responsive and be grounds for the rejection of the bid. Otherwise, the failure to include the cost of an alternate will not be deemed material.
3. The Bidder acknowledges that although there is an estimate for the cost of the Project, the market conditions may and frequently do result in the estimate being different from the sum of the bids received, either higher or lower. The Bidder understands that the Owner may include alternates, which may include deduct alternates as well as add alternates, to give it flexibility to build the Project with the funds available. The Bidder further understands and acknowledges that use of add and deduct alternates is a long held customary practice in the construction industry in the State of Ohio. The Bidder also acknowledges that the Owner will not make a decision about the alternates on which to base the award of contracts until the bids are received, and the Owner can compare its available funds with the base bids and the cost or savings from selecting different alternates. The Bidder understands that the award to the Bidder submitting the lowest and best bid will be based on the lowest base bid plus selected alternates, and may result in an award to a Bidder other than the Bidder that submitted the lowest base bid.
4. If, during the progress of the Work, the Owner desires to reinstate any alternate not included in the Contract, the Owner reserves the right to reinstate the alternate at the price bid by the Contractor provided that such action is taken in sufficient time so as not to delay the progress of the work or cause the Contractor additional expense.

M. UNIT PRICES

1. Where unit prices are requested in the Bid Form for a Prime Contract on which the Bidder submits a bid, the Bidder should quote a unit price. Unless otherwise expressly provided in the Bid Documents, such unit prices shall include all labor, materials, and services necessary for the timely and proper installation of the item for which the unit prices are requested. The unit prices quoted in the bid shall be the basis for any Change Orders entered into under the Owner-Contractor Agreement, unless the Design Professional determines that the use of such unit prices will cause substantial inequity to either the Contractor or the Owner.

N. ADDENDA

1. The Owner reserves the right to issue Addenda changing, altering, or supplementing the Contract Documents prior to the time set for receiving bids. Addenda may be issued to clarify bidders' questions and/or to change, alter, or supplement the Contract Documents.
2. Any explanation, interpretation, correction, or modification of the Contract Documents will be issued in writing in the form of an Addendum, which shall be the only means considered binding; explanations, interpretations, etc., made by any other means shall NOT be legally binding. All Addenda shall become a part of the Contract Documents.
3. Bidders shall submit questions using BidExpress in sufficient time in advance of the bid opening to allow sufficient time for the Owner to respond. The Owner—after consultation with the Design Professional—shall in its sole discretion determine whether or not an Addendum will be issued. All Addenda will be issued, except as hereafter provided, through the Owner's electronic bidding system to all bidding plan holders, at least (72) hours prior to the published time for the opening of bids, excluding Saturdays, Sundays, and legal holidays. If any Addendum is issued within such seventy-two (72) hour period, then the time for opening of bids shall be extended one (1) week with no further advertising of bids required unless otherwise noted in the Addendum.
4. Receipt of Addenda shall be indicated by Bidders in the space provided on the Bid Form. Receipt of Addenda shall be indicated by Bidders in the space provide on the Bid Form. Bidders are responsible for acquiring Addenda issued through BidExpress in time to incorporate them into their bid.
5. Each Bidder shall carefully read and review the Contract Documents and immediately bring to the attention of the Ownerl any error, omission, inconsistency, or ambiguity therein.
6. If a Bidder fails to indicate receipt of all Addenda through the last Addendum issued on its Bid Form, the bid of such Bidder will be deemed to be responsive only if:
 - a. The bid received clearly indicates that the Bidder received the Addendum, such as where the Addendum added another item to be bid upon and the Bidder submitted a bid on that item; or
 - b. The Addendum involves only a matter of form or is one which has either no effect or has merely a trivial or negligible effect on price, quantity, quality, or delivery of the item bid upon.

O. INTERPRETATION

1. If a Bidder contemplating submitting a bid for the proposed Project is in doubt as to the true meaning of any part of the Contract Documents, it may submit a written request for an interpretation using BidExpress a minimum of five (5) business days prior to the Bid opening date. Any interpretation of the proposed documents will be made by Addendum only, and a copy of such Addendum will be delivered to each Bidder receiving a set of Contract Documents or that has asked to be added to the plan holders list. Addenda and clarifications will be distributed through BidExpress. The Owner will not be responsible for any other explanation or interpretation of the proposed documents.
2. In interpreting the Contract Documents, words describing materials that have a well-known technical or trade meaning, unless otherwise specifically defined in the Contract Documents, shall be construed in accordance with the well-known meaning recognized by the trade.
3. Bidders are responsible for notifying the Owner using BidExpress in a timely manner of any ambiguities, inconsistencies, errors, or omissions in the Contract Documents. The Bidder shall not, at any time after the execution of the Contract, be compensated for a claim alleging

insufficient data, incomplete Contract Documents, or incorrectly assumed conditions regarding the nature or character of the Work, if no request was made by the Bidder prior to the bid opening.

P. STATE SALES AND USE TAXES

1. The Owner is a political subdivision of the State of Ohio and is exempt from taxation under the Ohio Sales Tax and Use Tax Laws. Building materials that the successful Bidder purchases for incorporation into the Project will be exempt from state sales and use taxes if the successful Bidder provides a properly completed Ohio Department of Taxation Construction Contract Exemption Certificate to the vendors or suppliers when the materials are acquired. The Owner will execute properly completed certificates on request.

Q. DATE FOR SUBSTANTIAL COMPLETION/LIQUIDATED DAMAGES

1. Date for Substantial Completion. Each successful Bidder shall have its Work on the Project Substantially Complete (as Substantial Completion is defined in the Contract Documents) by the Date of Substantial Completion set forth in the Coversheet, or within the Contract Time, as applicable to the Bidder's scope of work.

The Contract Time shall run from the date of the Notice to Proceed or if there is no Notice to Proceed from the Effective Date of the Owner- Contractor Agreement. The Date for Substantial Completion Date and the Contract Time may be extended only by Change Order, by other Modification, or by a Claim that is Finally Resolved. By submitting its Bid, each Bidder agrees that the period for performing its Work is reasonable.

2. Liquidated Damages. If the successful Bidder does not have its Work Substantially Complete by its Date for Substantial Completion and/or Finally Complete within forty-five (45) days of achieving Substantial Completion, whichever may be applicable, the successful Bidder shall pay the Owner and the Owner may set off from amounts otherwise due the successful Bidder Liquidated Damages. The daily amounts of Liquidated Damages are set forth in the tables included in the Owner-Contractor Agreement. The total amounts of Liquidated Damages will be calculated based on the total number of calendar days beyond the Date for Substantial Completion that the Bidder's Work is not Substantially Complete and/or to the extent that its Work is not Finally Complete more than forty-five (45) after the Substantial Completion of its Work, i.e., number of late days times the per diem rate(s) for Liquidated Damages in the tables. In addition to such Liquidated Damages, the Bidder shall indemnify, defend, and hold the Owner and its employees and agents harmless from any and all claims, whether or not such claims are proven, and from all costs and expenses incurred as a result of such claims, including but not limited to attorneys' and consultants' fees and expenses, that arise out of or are related to the Bidder's failure to Substantially Complete its Work by its Date for Substantial Completion. The Bidder's obligations under this Section are joint and several.
3. The Bidder acknowledges and agrees, by submitting its bid for the Work and entering into a Contract with the Owner, that such amounts of Liquidated Damages represent a reasonable estimate of the actual damages for loss of or interference with the intended use of the Project that the Owner would incur if the Bidder's Work is not Substantially Complete by its Date for Substantial Completion and/or not Finally Complete by forty-five (45) days of the Date of Substantial Completion. The Bidder further acknowledges, agrees and understands that it may seek an extension of the Contract Time (and its Date for Substantial Completion) to avoid or reduce Liquidated Damages by properly following the Claim procedures in the Contract Documents.

R. OWNER'S RIGHT TO WAIVE DEFECTS AND IRREGULARITIES

1. The Owner reserves the right to waive any and all irregularities provided that the defects and irregularities do not affect the amount of the bid in any material respect or otherwise give the Bidder a competitive advantage.

S. MODIFICATION/WITHDRAWAL OF BIDS

1. Modification. A Bidder may modify its bid by written communication to the Owner addressed to the Owner's Representative at any time prior to the scheduled closing time for receipt of bids, provided such written communication is received by Owner's Representative prior to the bid deadline. The written communication shall not reveal the bid price, but should provide the addition or subtraction or other modification so that the final prices or terms will not be known until the sealed bid is opened. If the Bidder's written instructions with the change in bid reveal the bid amount in any way prior to the bid opening, the bid may be rejected as non-responsive.
2. Withdrawal Prior to Bid Deadline. A Bidder may withdraw its bid at any time for any reason prior to the bid deadline for the opening of bids established in the Legal Notice. The request to withdraw shall be made in writing to and received by the Owner's Representative prior to the time of the bid opening.
3. Withdrawal after Bid Deadline.
 - a. All bids shall remain valid and open for acceptance for a period of at least 60 days after the bid opening; provided, however, that a Bidder may withdraw its bid from consideration after the bid deadline when all of the following apply:
 - (1) the price bid was substantially lower than the other bids;
 - (2) the reason for the bid being substantially lower was a clerical mistake, rather than a mistake in judgment, and was due to an unintentional and substantial error in arithmetic or an unintentional omission of a substantial quantity of work, labor, or material;
 - (3) the bid was submitted in good faith; and
 - (4) the Bidder provides written notice to the Owner, to the attention of the Owner's Representative, within two (2) business days after the bid opening for which the right to withdraw is claimed.
 - b. No bid may be withdrawn under this provision if the result would be the awarding of the contract on another bid for the bid package from which the Bidder is withdrawing its bid to the same Bidder.
 - c. If a bid is withdrawn under this provision, the Owner may award the Contract to another Bidder determined by the Owner to be the lowest and best bidder or the Owner may reject all bids and advertise for other bids. In the event the Owner advertises for other bids, the withdrawing Bidder shall pay the costs incurred in connection with the rebidding by the Owner, including the cost of printing new Contract Documents, required advertising, and printing and mailing notices to prospective bidders, if the Owner finds that such costs would not have been incurred but for such withdrawal.

T. COMPLIANCE WITH APPLICABLE LAWS

1. By submitting a bid for Work on the Project, the Bidder acknowledges that it is in compliance with applicable federal, state, and local laws and regulations, including, but not limited to, the following:

- a. Equal Employment Opportunity/Nondiscrimination. The Bidder agrees that if it is awarded a contract that in the hiring of employees for performance of work under the contract or any subcontract, neither it nor any subcontractor, or any person acting on its behalf or its subcontractor's behalf, by reason of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color, shall discriminate against any citizen of the state in the employment of labor or workers who are qualified and available to perform work to which the employment relates. The Bidder further agrees that neither it nor any subcontractor or any person on its behalf or on behalf of any subcontractor, in any manner, shall discriminate against or intimidate any employees hired for the performance of the work under the contract on account of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color.
- b. Ethics Laws. The Bidder represents that it is familiar with all applicable ethics law requirements, including without limitation Sections 102.04 and 3517.13 of the Ohio Revised Code, and certifies that it is in compliance with such requirements.

U. FINDINGS FOR RECOVERY

1. By submitting its bid, each Bidder certifies for reliance of the Owner that it has no unresolved finding for recovery against it issued by the Auditor of the State of Ohio on or after January 1, 2001, except as permitted by Section 9.24 (F) of the Ohio Revised Code.

V. PREVAILING WAGES

1. For "Construction" projects as defined in Section 4115.03 of the Ohio Revised Code, the successful Bidder and all of its subcontractors, regardless of tier, will strictly comply with its obligation to pay a rate of wages on the Project not less than the rate of wages fixed for this Project under Section 4115.04 of the Ohio Revised Code. Additionally, for such "Construction Projects," the successful Bidder will comply with all other provisions of Chapter 4115 of the Ohio Revised Code. Where Federal prevailing wage rates apply the successful Bidder and all of its subcontractors, regardless of tier, will strictly comply with its obligation to pay a rate of wages on the Project not less than the rate of wages fixed for this Project under the applicable Federal law. See **Appendix B**.

W. FEDERAL FUNDING

1. If the Project is subject to terms as a result of federal funding, it will be indicated in the Contract Documents.

APPENDIX A

SUPPLEMENTARY SPECIFICATIONS

SP-01 CONSTRUCTION MILESTONES

The following contract milestones are established based on the executed Notice to Proceed being delivered to the Contractor on or before April 15, 2024. In the event that executed notice to proceed is not delivered until after April 15, 2024, the date listed below shall be extended by the same number of calendar days that the notice to proceed is delayed beyond April 15, 2024.

November 1, 2024	Project shall be Substantially Complete and open to two-way traffic, including but not limited to: excavation, embankment, stormwater drainage curb, base pavement, asphalt pavement up to and including intermediate course, commercial driveways, traffic control signage, permanent or temporary pavement markings, and permanent or temporary street lighting.
April 1, 2025	Final completion of all work shown on the contract documents.
80 Calendar Days	As shown on the Plans, the intersection of Taylor Station Road, Claycraft Road, and Research Road may be fully closed to traffic during construction of the project. The closure and associated detour shall be permitted for a maximum of 80 calendar days. Project shall Substantially Complete as described above prior to opening intersection to traffic.

All foregoing milestones shall all be considered for Liquidated Damages, incentives, and disincentives as further described in SP-02 and SP-03.

SP-02 LIQUIDATED DAMAGES

This Project is subject to liquidated damages in accordance with the following table. The table below overrides CMSC Table 108.07-1. Unless otherwise noted, the liquidated damages listed in the table below shall be assessed for each Calendar Day per each milestone remaining uncompleted after the specified completion date.

Milestone	Amount of Applicable Liquidated Damages for Failure to Meet Specified Requirements	Application
Substantial Completion	\$500	Per each calendar day in overrun time.
Final Completion	\$1,500	Per each calendar day in overrun time.

SP-03 INCENTIVE/DISINCENTIVE CONTRACT

The Contractor shall complete all critical work and safety items according to the Incentive/ Disincentive Contract Table. The Incentive/Disincentive Contract Table is located below. In the event the Contractor impedes the flow of traffic subsequent to the opening to unrestricted traffic, the Contractor shall be assessed a disincentive according to the Incentive/ Disincentive Contract Table. Critical work is shown in the Incentive/Disincentive Contract Table.

Critical work is defined as having the designated section of work open to unrestricted traffic as shown in the table, or the entire project if not otherwise listed.

Unrestricted traffic is defined as all traffic lanes being available for use at their final design width with all markings, RPM's, and safety features installed, along with no restrictions within 2 feet of the edge line on the shoulders.

Incentive/Disincentive Amount: The Contractor will be paid an Incentive or will be assessed a Disincentive according to the Incentive/ Disincentive Contract Table below.

Milestone	Time Period	Disincentive	Incentive	Maximum Incentive
Maximum Road Closure	80 calendar days from start to finish	\$500 per day	\$500 per day	\$15,000

Extensions of time will be for calendar days and calculated in accordance with C&MS 108.06 except as follows: no extensions of time will be granted for delays in material deliveries (unless such delays are industry wide), and labor strikes (unless such strikes are area wide).

SP-04 COOPERATION BETWEEN CONTRACTORS

Bidders are hereby advised that the City of Gahanna Claycraft Road Water Main Improvements project will replace the water main on Claycraft Road west of the Project limits. The Contractor shall cooperate with the water main contractor in accordance with CMSC 105.08. Traffic maintenance activities shall be coordinated.

SP-05 ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER SPECIAL PROVISION

The Contractor shall purchase new, install, maintain, remove, and deliver to the City of Gahanna (when no longer needed for the project), a portable changeable message sign (PCMS). The City of Gahanna shall retain ownership of the PCMS at the completion of the project. The sign shall be model "Silent Messenger, 126"x76", (most recent version)" as manufactured by Solar Technology, Inc., or approved equal. The PCMS shall provide for the following:

- full matrix
- Minimum 6 solar panel
- Gel Cell or AGM batteries
- GPS receiver/cellular transceiver
- Anti-theft battery protection

Each sign shall be trailer-mounted and equipped with a functional dimming mechanism, to dim the sign during darkness, and a tamper and vandal proof enclosure. Each sign shall be provided with appropriate training and operation instructions to enable on-site personnel to operate and troubleshoot the unit. The sign shall also be capable of being powered by an electrical service drop from a local utility company. The PCMS shall be delineated in accordance with C&MS 614.03.

Placement, operation, maintenance and all activation of the signs by the Contractor shall be as directed by the Engineer. The PCMS shall be located in a highly visible position yet protected from traffic. The Contractor shall, at the direction of the Engineer, relocate the PCMS to improve visibility or accommodate changed conditions. When not in use, the PCMS shall be turned off. Additionally, when not in use for extended periods of time, the PCMS shall be turned away from all traffic.

The Engineer shall be provided access to each sign unit and shall be provided with appropriate training and operation instructions to enable City of Gahanna personnel to operate and troubleshoot the unit, and to revise sign messages, if necessary.

All messages to be displayed on the sign will be provided by the Engineer. A list of all required pre-programmed messages may be given to the Contractor at the project preconstruction conference or throughout the duration of the project. The sign shall have the capability to store up to 99 messages. Message memory or pre-programmed displays shall not be lost as a result of power failures to the on-board computer. The sign legend shall be capable of being changed in the field. Three-line presentation

formats with up to six message phases shall be supported. PCMS format shall permit the complete message for each phase to be read at least twice.

The PCMS shall contain an accurate clock and programming logic which will allow the sign to be activated, deactivated or messages changed automatically at different times of the day for different days of the week.

The PCMS shall contain a cellular telephone data link which will (in active cellular phone areas) allow remote sign activation, message changes, message additions and revisions to time of day programs. The system shall also permit verification of current and programmed messages. The PCMS unit shall be maintained in good working order by the Contractor in accordance with the provisions of C&MS 614.07. The Contractor shall, prior to activating the unit, make arrangements, with an authorized service agent for the PCMS, to assure prompt service in the event of failure. Any failure shall not result in the sign being out of service for more than 12 hours, including weekends. Failure to comply may result in an order to stop work and open all traffic lanes and/or in the City taking appropriate action to safely control traffic. The entire cost to control traffic, accrued by the City due to the Contractor's noncompliance, will be deducted from moneys due, or to become due the Contractor on his contract.

The Contractor shall be responsible for 24-hour-per-day operation and maintenance of these signs on the project for the duration of their use.

All warranty documentation, user manuals, miscellaneous parts/accessories shall be furnished to the City of Gahanna. Payment for the above described item shall be at the contract unit price for each new sign purchased, utilized for the project, and delivered to the City of Gahanna. Payment shall include all labor, materials, equipment, fuels, lubricating oils, software, hardware and incidentals to perform the above described work.

Item 614, Portable Changeable Message Sign, As Per Special Provision

4 Each

SP-06 UTILITY NOTE

Bidders are advised that the following utility facilities may not be cleared from the construction area at the time of the award of the contract. These utility facilities shall remain in place or be relocated within the construction limits of the project as set out below.

All station and offset locations listed below are approximate based upon information provided by the respective utility companies.

AT&T

The company has existing overhead and underground facilities within the project area and they are attached as a joint user to the AEP poles on the west side of Taylor Station Road, and the north side of Claycraft Road. AT&T will transfer overhead cable to new AEP poles, and relocate conflicting underground cable throughout the project. AT&T will transfer any risers that need relocated, and bore the cable out of conflict with the proposed improvements. It is anticipated that the relocation of their facilities will be finished by **May 15, 2024 (clear date)**.

Adam Stoncheck
AT&T Services, Inc.
111 N. 4th Street, 8th Floor
Columbus, Ohio 43215
as883p@att.com

SPECTRUM

The company has existing overhead and underground facilities within the project area and they are attached as a joint user to the AEP poles on the west side of Taylor Station Road, and the north side of Claycraft Road. Spectrum will transfer overhead cable to new AEP poles, and relocate conflicting

underground cable throughout the project. Spectrum will transfer any risers that need relocated to new AEP poles and bore the cable out of conflict with the proposed improvements. It is anticipated that the relocation of their facilities will be finished by **May 15, 2024 (clear date)**.

Joseph Vlock
Spectrum
3760 Interchange Road
Columbus, Ohio 43204
Joseph.Vlock@charter.com

LUMEN

The company has existing overhead facilities within the project area. They lease overhead fiber cables from Spectrum located on the west side of Taylor Station Road. Spectrum will be responsible for transferring these overhead facilities to the new AEP poles. It is anticipated that the relocation of their facilities will be finished by **May 15, 2024 (clear date)**.

Steve Kauffman
Lumen
6185 Huntley Road, Suite E
Columbus, Ohio 43229
Steve.kauffman@lumen.com

VERIZON

The company has overhead facilities within the project area and they are attached as a joint user to AEP poles on the west side of Taylor Station Road, and the north side of Claycraft Road. Verizon will transfer overhead cable to new AEP poles. Verizon also has a single underground service line that crosses Taylor Station Road south of the intersection that has been confirmed to be abandoned. It is anticipated that the relocation of their facilities will be finished by **May 15, 2024 (clear date)**.

Maurice Jones
Verizon Business
757 Commerce Court
Lewis Center, Ohio 43035
maurice.jones@verizon.com

COLUMBUS FIBERNET (CFN)

The company has underground duct facilities along the east side of Taylor Station Road, and the south side of Claycraft Road. CFN will be relocating any conflicting cable within the project area. It is anticipated that the relocation of their facilities will be finished by **May 15, 2024 (clear date)**.

Matt Blackstone
Columbus FiberNet
1600 Walcutt Road
Columbus, Ohio 43228
mablackstone@columbusfiber.net

COLUMBUS TRAFFIC SIGNAL SYSTEM (CTSS)

CTSS has existing overhead facilities within the project area and they are attached as a joint user to the AEP poles on the west side of Taylor Station Road on the north side of the intersection only. CTSS is fed from the Columbus FiberNet duct run in the form of a riser on an existing AEP pole located at the northwest corner of the intersection. This riser location will be relocated out of the intersection further north along Taylor Station Road. CTSS overhead cables will be transferred to any new AEP poles on the west side. It is anticipated that the relocation of their facilities will be finished by **May 15, 2024 (clear date)**.

Mark Stephenoff
Division of Traffic Management
Department of Public Service
1881 E. 25th Avenue
Columbus, Ohio 43219
MSStephenoff@columbus.gov

COLUMBIA GAS

The company has existing underground facilities located on the west side of a Taylor Station Road from the intersection running north, the east side of Taylor Station Road from the intersection running south, and the south side of Claycraft and Research Road. The existing facilities include 4" and 6" conduits of PMMP, CSMP, PMP material. Columbia Gas will be relocating to new right of way on the northeast and southeast corners of the intersection, and abandoning and conflicting cable within the project area. Columbia Gas will need 6 weeks to complete relocation. It is anticipated that the relocation of their facilities will be finished by **May 15, 2024 (clear date)**.

Mike Magee
Columbia Gas of Ohio
3550 Johnny Appleseed Court
Columbus, Ohio 43231
mmagee@nisource.com

GENERAL COMMENTS

The Contractor shall exercise caution when working in proximity to the existing and/or relocated utility facilities.

Section 105.07 of the Columbus Construction and Material Specifications requires, among other things, that the Contractor cooperate with all utilities located within the limits of this construction project and take responsibility for the protection of the utility property and services.

Section 3781.30 of the Ohio Revised Code requires among other things, that the Contractor protect and preserve the markings of approximate locations of underground utility facilities and to conduct the excavation in the vicinity of underground utility facilities in a careful and prudent manner.

APPENDIX B

PREVAILING WAGE

AND

FEDERAL FUNDING

Prevailing Wage Contract

Yes* (X)

No ()

If yes:

State (X)

Federal** ()

*If yes, current applicable Prevailing Wage Rates can be found on an enclosed thumbdrive.
Please request a hard copy from the City if needed.

**If Federal, Contract Documents with contract terms relating to the federal funding are
attached. (Please request documents from the City if none are attached.)

STATE OF OHIO REQUEST FOR PREVAILING WAGE RATES

Important: If you wish to retain a copy of this form for your records, please print it prior to clicking on the "Submit" button. When you click the "Submit" button, a prompt should appear which will allow you to obtain the necessary wage rates by clicking on the "view wage rates" button. Submitting this form notifies the Bureau of Labor and Worker Safety of your project. Wage rates will not be sent to you by mail as a result of the submission, rather you should obtain them by clicking on the "view wage rates" button.

Public Authority Information

Owner/Public Authority Name:	City of Gahanna	Date: 01/11/2024 This form must be filled out completely & correctly for us to process your request. Forms not completed correctly will be returned to the sender.
Department Division or Agency:	Engineering	
Street Address:	200 S. Hamilton Road	
Address 2:		ODOC Date Stamp
City, OH	GAHANNA	
ZIP:	43230	
Email:	jill.webb@gahanna.gov It is required that you list your e-mail address here.	
County of Public Authority:	FRANKLIN ▼	
P.A. Phone:	614-342-4050	

Project Information

Project Name:	Taylor Station Road-Claycraft Road Roundabout, ST-1087	ODOC Date Stamp (Bld Tab)
Site Address:	Taylor Station Road & Claycraft Road Intersection	
City, OH	GAHANNA	
ZIP:	43230	
County of Project:	FRANKLIN ▼	
Prevailing Wage Coordinator Name	Jill Webb	
Address:	200 S. Hamilton Road	
City,	GAHANNA	
ZIP:	43230	
Phone:	614-342-4050	
Issuing Authority of Bonds:		
Estimated Total Overall Project Cost:	\$2,480,000	
Type of Financing:	Local Funds	
Type of Construction:	<input type="radio"/> New Construction <input checked="" type="radio"/> Old Construction	
This Project is	<input type="radio"/> Residential <input checked="" type="radio"/> Commercial	

Expected Date of Contract Award:	<input type="text" value="04/01/24"/> example 05/31/98
Projected Completion Date:	<input type="text" value="11/01/24"/> example 05/31/98
Project Comments:	<input type="text"/> (optional)

Important: If you wish to retain a copy of this form for your records, please print it prior to clicking on the "Submit" button. When you click the "Submit" button, a prompt should appear which will allow you to obtain the necessary wage rates by clicking on the "view wage rates" button. Submitting this form notifies the Bureau of Labor and Worker Safety of your project. Wage rates will not be sent to you by mail as a result of the submission, rather you should obtain them by clicking on the "view wage rates" button.

Please contact our [Webmaster](#) with questions or comments.

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Ohio Department of Commerce

Bureau of Wage & Hour Administration

[Consumers](#)
[Business](#)
[License/Permit Holders & Applicants](#)
[Other Government Agencies](#)
[Back to wage rate search](#) [Back to Home](#)
Classification = All, County = FRANKLIN, Union = All

County	Classification	Effective	Posted	Union
FRANKLIN	Asbestos Worker	8/23/2018	8/23/2018	Asbestos Local 207 OH
FRANKLIN	Asbestos Worker	7/5/2023	7/5/2023	Asbestos Local 50 Zone 1
FRANKLIN	Boilermaker	10/1/2013	9/25/2013	Boilermaker Local 105
FRANKLIN	Bricklayer	6/7/2023	6/7/2023	Bricklayer Local 23 Heavy Hwy (A)
FRANKLIN	Bricklayer	6/7/2023	6/7/2023	Bricklayer Local 23 Heavy Hwy (B)
FRANKLIN	Bricklayer	6/1/2023	5/31/2023	Bricklayer Local 23 (Columbus Tile Finisher)
FRANKLIN	Bricklayer	6/1/2023	5/31/2023	Bricklayer Local 23 (Columbus Tile Setter)
FRANKLIN	Bricklayer	6/1/2023	5/31/2023	Bricklayer Local 23 (Columbus)
FRANKLIN	Carpenter	5/10/2023	5/10/2023	Carpenter Millwright Local 1090 Columbus
FRANKLIN	Carpenter	3/5/2014	3/5/2014	Carpenter NE District Industrial Dock & Door
FRANKLIN	Carpenter	5/10/2023	5/10/2023	Carpenter & Pile Driver Local 200
FRANKLIN	Carpenter	5/17/2023	5/17/2023	Carpenter & Piledriver SC District HevHwy
FRANKLIN	Cement	1/10/2024	1/10/2024	Cement Mason Local 132 (Columbus)
FRANKLIN	Cement Mason	5/1/2023	4/26/2023	Cement Mason Statewide HevHwy
FRANKLIN	Electrical	1/1/2024	12/28/2023	Electrical Local 683 Inside
FRANKLIN	Electrical	1/1/2024	12/27/2023	Electrical Local 683 Inside Lt Commercial South West
FRANKLIN	Voice Data Video	5/29/2023	5/24/2023	Electrical Local 683 Voice Data Video
FRANKLIN	Lineman	3/1/2023	3/1/2023	Electrical Local 71 High Tension Pipe Type Cable
FRANKLIN	Lineman	3/1/2023	3/1/2023	Electrical Local 71 Outside Utility Power
FRANKLIN	Lineman	3/1/2023	3/1/2023	Electrical Local 71 Outside (Central OH Chapter)
FRANKLIN	Voice Data Video	1/10/2024	1/10/2024	Electrical Local 71 Voice Data Video Outside
FRANKLIN	Elevator	1/1/2024	12/27/2023	Elevator Local 37
FRANKLIN	Glazier	11/1/2020	10/28/2020	Glazier Local 372
FRANKLIN	Ironworker	6/1/2023	5/31/2023	Ironworker Local 172
FRANKLIN	Laborer Group 1	5/1/2023	4/26/2023	Labor HevHwy 3
FRANKLIN	Laborer	9/20/2023	9/20/2023	Labor Local 423
FRANKLIN	Operating Engineer	5/1/2023	4/26/2023	Operating Engineers - Building Local 18 - Zone III
FRANKLIN	Operating Engineer	5/1/2023	4/26/2023	Operating Engineers - HevHwy Zone II
FRANKLIN	Drywall Finisher	11/22/2023	11/22/2023	Painter Local 1275
FRANKLIN	Painter	11/22/2023	11/22/2023	Painter Local 1275
FRANKLIN	Painter	11/22/2023	11/22/2023	Painter Local 1275 HevHwy
FRANKLIN	Painter	11/22/2023	11/22/2023	Painter Local 1275 Industrial
FRANKLIN	Painter	6/10/2015	6/10/2015	Painter Local 639
FRANKLIN	Painter	3/22/2023	3/22/2023	Painter Local 639 Zone 2 Sign
FRANKLIN	Plasterer	6/1/2023	5/31/2023	Plasterer Local 132 (Columbus)
FRANKLIN	Plumber Pipefitter	6/1/2023	5/31/2023	Plumber Pipefitter Local 189
FRANKLIN	Roofer	9/13/2023	9/13/2023	Roofer Local 86
FRANKLIN	Sheet Metal Worker	8/12/2022	8/12/2022	Sheet Metal Local 24 Columbus
FRANKLIN	Sprinkler Fitter	4/6/2022	4/6/2022	Sprinkler Fitter Local 669
FRANKLIN	Truck Driver	5/1/2023	4/26/2023	Truck Driver Bldg & HevHwy Class 1 Locals 20,40,92,92b,100,175,284,438,377,637,908,957
FRANKLIN	Truck Driver	5/1/2023	4/26/2023	Truck Driver Bldg & HevHwy Class 2 Locals 20,40,92,92b,100,175,284,438,377,637,908,957
FRANKLIN	Truck Driver	5/1/2023	4/26/2023	Truck Driver Bldg & HevHwy Class 3 Locals 20,40,92,92b,100,175,284,438,377,637,908,957

[Back to home](#)

Prevailing Wage Determination Cover Letter

County: FRANKLIN ▼
Determination Date: 01/11/2024
Expiration Date: 04/11/2024

THE FOLLOWING PAGES ARE PREVAILING RATES OF WAGES ON PUBLIC IMPROVEMENTS FAIRLY ESTIMATED TO BE MORE THAN THE AMOUNT IN O.R.C. SEC. 4115.03 (b) (1) or (2), AS APPLICABLE.

Section 4115.05 provides, in part: "Where contracts are not awarded or construction undertaken within ninety days from the date of the establishment of the prevailing wages, there shall be a redetermination of the prevailing rate of wages before the contract is awarded." The expiration date of this wage schedule is listed above for your convenience only. This wage determination is not intended as a blanket determination to be used for all projects during this period without prior approval of this Department.

Section 4115.04, Ohio Revised Code provides, in part: "Such schedule of wages shall be attached to and made a part of the specifications for the work, and shall be printed on the bidding blanks where the work is done by contract..."

The contract between the letting authority and the successful bidder shall contain a statement requiring that mechanics and laborers be paid a prevailing rate of wage as required in Section 4115.06, Ohio Revised Code.

The contractor or subcontractor is required to file with the contracting public authority upon completion of the project and prior to final payment therefore an affidavit stating that he has fully complied with Chapter 4115 of the Ohio Revised Code.

The wage rates contained in this schedule are the "Prevailing Wages" as defined by Section 4115.03, Ohio Revised Code (the basic hourly rates plus certain fringe benefits). These rates and fringes shall be a minimum to be paid under a contract regulated by Chapter 4115 of the Ohio Revised Code by contractors and subcontractors. The prevailing wage rates contained in this schedule include the effective dates and wage rates currently on file. In cases where future effective dates are not included in this schedule, modifications to the wage schedule will be furnished to the Prevailing Wage Coordinator appointed by the public authority as soon as prevailing wage rates increases are received by this office.

"There shall be posted in a prominent and accessible place on the site of work a legible statement of the Schedule of Wage Rates specified in the contract to the various classifications of laborers, workmen, and mechanics employed, said statement to remain posted during the life of such contract." Section 4115.07, Ohio Revised Code.

Apprentices will be permitted to work only under a bona fide apprenticeship program if such program exists and if such program is registered with the Ohio Apprenticeship Council.

Section 4115.071 provides that no later than ten days before the first payment of wages is due to any employee of any contractor or subcontractor working on a contract regulated by Chapter 4115, Ohio Revised Code, the contracting public authority shall appoint one of his own employees to act as the prevailing wage coordinator for said contract. The duties of the prevailing wage coordinator are outlined in Section 4115.071 of the Ohio Revised Code.

Section 4115.05 provides for an escalator in the prevailing wage rate. Each time a new rate is established, that rate is required to be paid on all ongoing public improvement projects.

A further requirement of Section 4115.05 of the Ohio Revised Code is: "On the occasion of the first pay date under a contract, the contractor shall furnish each employee not covered by a collective bargaining agreement or understanding between employers and bona fide organizations of Labor with individual written notification of the job classification to which the employee is assigned, the prevailing wage determined to be applicable to that classification, separated into the hourly rate of pay and the fringe payments, and the identity of the prevailing wage Coordinator appointed by the public authority. The contractor or subcontractor shall furnish the same notification to each affected employee every time the job classification of the employee is changed."

Work performed in connection with the installation of modular furniture may be subject to prevailing wage.

THIS PACKET IS NOT TO BE SEPARATED BUT IS TO REMAIN COMPLETE AS IT IS SUBMITTED TO YOU. (Reference guidelines and forms are included in this packet to be helpful in the compliance of the Prevailing Wage law.)
wh1500

PREVAILING WAGE THRESHOLD LEVELS

IMPORTANT NOTICE

Before advertising for bids, contracting, or undertaking construction with its own forces, to construct a public improvement, the Public Authority shall have the Ohio Department of Commerce-Division of Industrial Compliance, Bureau of Wage and Hour Administration determine the prevailing rates of wages for workers employed on the public improvement. The wage determination must be included in the project specifications and printed on the bidding blanks where work is done by contract.

“New” construction threshold for <i>Building Construction</i>:	\$250,000
---	------------------

“Reconstruction, enlargement, alteration, repair, remodeling, renovation, or painting” threshold level for <i>Building Construction</i>:	\$75,000
---	-----------------

As of January 1, 2022:

“New” construction that involves <i>roads, streets, alleys, sewers, ditches and other works connected to road or bridge construction</i> threshold level has been adjusted to:	\$96,091
---	-----------------

“Reconstruction, enlargement, alteration, repair, remodeling, renovation, or painting” that involves <i>roads, streets, alleys, sewers, ditches and other works connected to road or bridge construction</i> threshold level has been adjusted to:	\$28,789
---	-----------------

- A) Thresholds are to be adjusted biennially by the Director of the Ohio Department of Commerce.
- B) Biennial adjustments to threshold levels are made according to the Building Cost for Skilled Labor Index published by McGraw-Hill’s Engineering News-Record, but may not increase or decrease more than 3% for any year.

If there are questions concerning this notification, please contact:

Ohio Department of Commerce
Division of Industrial Compliance
Bureau of Wage and Hour Administration
6606 Tussing Road, PO Box 4009
Reynoldsburg, Ohio 43068-9009
Phone: 614-644-2239
Fax: 614-728-8639
www.com.ohio.gov



PREVAILING WAGE CONTRACTOR RESPONSIBILITIES

This is a summary of prevailing wage contractors' responsibilities. For more detailed information please refer to Chapter 4115 of the Ohio Revised Code

General Information

Ohio's prevailing wage laws apply to all public improvements financed in whole or in part by public funds when the total overall project cost is fairly estimated to be more than \$250,000 for new construction or \$75,000 for reconstruction, enlargement, alteration, repair, remodeling, renovation, or painting.

Ohio's prevailing wage laws apply to all public improvements financed in whole or in part by public funds when the total overall project cost is fairly estimated to be more than \$91,150 for new construction that involves roads, streets, alleys, sewers, ditches and other works connected to road or bridge construction or \$27,309 for reconstruction, enlargement, alteration, repair, remodeling, renovation, or painting of a public improvement that involves roads, streets, alleys, sewers, ditches and other works connected to road or bridge construction.

- a) Thresholds are to be adjusted biennially by the Administrator of Ohio Department of Commerce, Division of Industrial Compliance and Labor, Bureau of Wage and Hour Administration
- b) Biennial adjustments to threshold levels are made according to the Price Deflator for Construction Index, United States Department of Commerce, Bureau of the Census*, but may not increase or decrease more than 3% for any year

Penalties for violation

Violators are to be assessed the wages owed, plus a penalty of 100% of the wages owed.

Intentional Violations

If an intentional violation is determined to have occurred, the contractor is prohibited from contracting directly or indirectly with any public authority for the construction of a public improvement. Intentional violation means "a willful, knowing, or deliberate disregard for any provision" of the prevailing wage law and includes but is not limited to the following actions:

- Intentional failure to submit payroll reports as required, or knowingly submitting false or erroneous reports.
- Intentional misclassification of employees for the purpose of reducing wages.
- Intentional misclassification of employees as independent contractors or as apprentices.
- Intentional failure to pay the prevailing wage.
- Intentional failure to comply with the allowable ratio of apprentices to skilled workers as required by the regulations established by Ohio Department of Commerce, Division of Industrial Compliance and Labor, Bureau of Wage and Hour Administration.
- Intentionally employing an officer, of a contractor or subcontractor, that is known to be prohibited from contracting, directly or indirectly, with a public authority.



Responsibilities

- A. Pay the prevailing rate of wages as shown in the wage rate schedules issued by the Ohio Department of Commerce, Division of Industrial Compliance and Labor, Bureau of Wage and Hour Administration, for the classification of work being performed.
 - 1. Wage rate schedules include all modifications, corrections, escalations, or reductions to wage rates issued for the project.
 - 2. Overtime must be paid at time and one-half the employee's base hourly rate. Fringe benefits are paid at straight time rate for all hours including overtime.
 - 3. Prevailing wages must be paid in full without any deduction for food, lodging, transportation, use of tools, etc.; unless, the employee has voluntarily consented to these deductions in writing. The public authority and the Director of Ohio Department of Commerce, Division of Industrial Compliance and Labor, Bureau of Wage and Hour Administration - must approve these deductions as fair and reasonable. Consent and approval must be obtained before starting the project.
- B. Use of Apprentices and Helpers cannot exceed the ratios permitted in the wage rate schedules.
 - 1. Apprentices must be registered with the U.S. Department of Labor Bureau of Apprenticeship and Training.
 - 2. Contractors must provide the Prevailing Wage Coordinator a copy of the Apprenticeship Agreement for each apprentice on the project.
- C. Keep full and accurate payroll records available for inspection by any authorized representative of the Ohio Department of Commerce, Division of Industrial Compliance, and Labor, Bureau of Wage and Hour Administration or the contracting public authority, including the Prevailing Wage Coordinator. Records should include but are not limited to:
 - 1. Time cards, time sheets, daily work records, etc.
 - 2. Payroll ledger\journals and canceled checks\check register.
 - 3. Fringe benefit records must include program, address, account number, & canceled checks.
 - 4. Records made in connection with the public improvement must not be removed from the State for one year following the completion of the project.
 - 5. Out-of-State Corporations must submit to the Ohio Secretary of State the full name and address of their Statutory Agent in Ohio.
- D. Prevailing Wage Rate Schedule must be posted on the job site where it is accessible to all employees.
- E. Prior to submitting the initial payroll report, supply the Prevailing Wage Coordinator with your project dates to schedule reporting of your payrolls.
- F. Supply the Prevailing Wage Coordinator a list of all subcontractors including the name, address, and telephone number for each.
 - 1. **Contractors are responsible for their subcontractors' compliance with requirements of Chapter 4115 of the Ohio Revised Code.**



- G. Before employees start work on the project, supply them with written notification of their job classification, prevailing wage rate, fringe benefit amounts, and the name of the Prevailing Wage Coordinator for the project. A copy of the completed signed notification should be submitted to Prevailing Wage Coordinator.
- H. Supply all subcontractors with the Prevailing Wage Rates and changes.
- I. Submit certified payrolls within two (2) weeks after the initial pay period. Payrolls must include the following information:
 - 1. Employees' names, addresses, and social security numbers.
 - a. Corporate officers/owners/partners and any salaried personnel who do physical work on the project are considered employees. All rate and reporting requirements are applicable to these individuals.
 - 2. Employees' work classification.
 - a. Be specific about the laborers and/or operators (Group)
 - b. For all apprentices, show level/year and percent of journeyman's rate
 - 3. Hours worked on the project for each employee.
 - a. The number of hours worked in each day and the total number of hours worked each week.
 - 4. Hourly rate for each employee.
 - a. The minimum rate paid must be the wage rate for the appropriate classification. The Department's Wage Rate Schedule sets this rate.
 - b. All overtime worked is to be paid at time and one-half for all hours worked more than forty (40) per week.
 - 5. Where fringes are paid into a bona fide plan instead of cash, list each benefit and amount per hour paid to program for each employee.
 - a. When the amount contributed to the fringe benefit plan and the total number of hours worked by the employee on all projects for the year are documented, the hourly amount is calculated by dividing the total contribution of the employer by the total number of hours worked by the employee.
 - b. When the amount contributed to the fringe benefit is documented but not the total hours worked, the hourly amount is calculated by **dividing the total yearly contribution by 2080.**
 - 6. Gross amount earned on all projects during the pay period.
 - 7. Total deductions from employee's wages.
 - 8. Net amount paid.
- J. The reports shall be certified by the contractor, subcontractor, or duly appointed agent stating that the payroll is correct and complete; and that the wage rates shown are not less than those required by the O.R.C. 4115.
- K. Provide a Final Affidavit to the Prevailing Wage Coordinator upon the completion of the project.

Many of our staff are teleworking to stop community spread of the coronavirus (COVID-19). Our office will also not be accepting walk-in customers. The Division is still operational, and customers will still be able to drop off plans, applications and other documents, but we ask that you first work through our web portal, where you can also submit payments. There are no convenience fees for online payment. Please call us at 614-644-2223 or email us at IC@com.state.oh.us with any questions. Thanks for your patience.

INSTRUCTIONS FOR PREPARING CERTIFIED PAYROLL REPORTS

General

Contractors and subcontractors are required by law to submit certified payroll reports for work on projects covered by Ohio's Prevailing Wage Law. This form meets the reporting requirements established by Ohio Revised Code Chapter 4115. The use of this form is not mandatory, employers may submit their own forms provided that all of the required information is included. This form may be reproduced, or additional copies obtained from:

Ohio Department of Commerce Division of Industrial Compliance and Labor Bureau of Wage & Hour Administration 6606 Tussing Rd, P. O. Box 4009 Reynoldsburg, OH 43068-9009 Phone: (614) 644-2239

Certified Payroll Heading

Employer name and address: Company's full name and address. Indicate if the company is a subcontractor, if so list the name of the General or Prime. Project: Name and location of the project, including county. Contracting Public Authority: Name and address of the contracting public authority. Week Ending: Month, day, and year for last day of reporting period. Payroll #: Indicates first, second, third, etc. payroll filed by the company for the project. Page Indicator: number of pages included in the report. Project Number: Determined by the public authority. If there is no number leave blank.

Information by Column

- 1. Employee Name, Address and Social Security number: This information must be provided for all employees that perform physical labor on the project. Corporate officers, partners, and salaried employees are considered employees and must be paid the prevailing rate. Individual sole proprietors do not have to pay themselves prevailing rate but must report their hours on the project.
- 2. Work Class: List classification of work actually performed by employee. If unsure of work classification, consult the Ohio department of Commerce, Wage and Hour Bureau. Employees working more than one classification should have separate line entries for each classification. Indicate what year/level for Apprentices. Be specific when using laborer and operator classifications; for example, Backhoe Operator or Asphalt Laborer.
- 3. Hours Worked, Day & Date: In the first row of column 3 enter days of pay period example; M T W T H F S S. The second row is for the date that corresponds with each day for the pay period. In the employee information section enter the number of hours worked on the prevailing wage project and which day the hours were worked. Separate rows are labeled for (ST) straight time hours and (OT) overtime hours. All hours worked after 40, must be paid at the appropriate overtime rate.
- 4. Project Total Hours : Total the hours entered for pay period.
- 5. Base Rate: Enter actual rate per hour paid to the employee. The overtime hourly rate is time and one-half the base rate listed in the prevailing wage schedule plus fringe benefits at straight time rate. The prevailing wage schedule lists the base rate plus fringe benefit amounts. These amounts added together equal the total prevailing wage rate. Employers must pay this total amount in one of three ways.
 - Total rate may be paid in entirety in the base rate to the employee; in which case, the cash designation will be checked for fringe benefits.
 - Total rate may be paid as listed in prevailing wage rate schedule with total fringe amounts paid approved plans.
 - Total rate may be paid with a combination of base rate and fringe payments to approved plans in amounts other than those listed in schedule.
- 6. Project Gross: Enter total gross wages earned on the project for straight time and overtime. Project hours X base rate should equal project gross.
- 7. Fringes: If fringe benefits are paid in the hourly base rate, indicate this by marking the cash space. If fringe benefits are paid to approved plans as listed in the prevailing wage rate schedule, mark the space Approved Plans. If fringe benefits are paid partially in the base rate and partially to approved plans, mark the space Cash & Approved plans. List the hourly amount paid to approved plans for each fringe. If payments are not made on a per hour basis, calculate the hourly fringe credit by dividing the yearly employer contribution by the lesser of: hours actually worked in the year (these must be documented) or 2080. Fringe benefits include: Employer's share of health insurance, life insurance, retirement plan, bonus/profit sharing, sick pay, holiday pay, personal leave, vacation, and education/training programs.
- 8. Total Hours All Jobs: Total all hours worked during the pay period including non-prevailing wage jobs.
- 9. Total Gross All Jobs: Gross amount earned in the pay period for all hours worked.
- 10. Self explanatory.
- 11. Self explanatory.
- 12. Self explanatory.

CONTACT US

Division of Industrial Compliance & Labor
6606 Tussing Road
Reynoldsburg, OH 43068

Phone 614.644.2223
Fax 614.644.2618
Email IC@com.state.oh.us

Webmaster
Contact the Webmaster for Questions
or Comments on the Website:
webmaster@com.state.oh.us

CONNECT WITH US**LOOKUP SERVICES**

Registered Contractor List
Boiler Information Database
Building Code Compliance Electronic Plan
Submission
Board Of Building Appeals Case Lookup
Elevator Database Lookup

RESOURCES

Federal Wage and Hour
U.S. Consumer Product Safety
Commission
National Electric, Fire Alarm and Sprinkler
Codes
Minor Labor Law Poster
2017 Minimum Wage Poster
2018 Minimum Wage Poster

**ABOUT INDUSTRIAL
COMPLIANCE**

Director Sheryl Maxfield
Superintendent Geoff Eaton

Ohio.gov

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Certified Payroll Report

Report for: ☐ Check if Subcontractor¹⁾ Contract No: Payroll No: _____
Company:¹⁾ _____ If Sub, GC/Prime Contractor Name: _____
Address: _____ Project Name & Location: _____ Week Ending: _____
City, State, Zip _____ Public Authority (Owner): _____
Phone No: _____ Sheet:²⁾ _____ of _____

1. Employee Name, Address, & SS# (Last 4 digits if permitted)	2.Work Class ³⁾	3.Prevaling Wage Project							4.Total Hours	5.Base Rate	6.Project Gross	7. Fringes: <input type="checkbox"/> Cash <input type="checkbox"/> Approved Plans <input type="checkbox"/> Cash & Approved Plans						Weekly Payroll Amount			
		Hours Worked - Day & Date										Fringe Rate Your Company Pays Per Hour						8.Total Hrs for all Jobs	9. Total Gross on All Jobs	10. Total Deductions	11. Net Pay on All Jobs
											H&W	Pens	Vac	Hol	Other	Total					
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1) By signing below, I certify that: (1) I pay, or supervise the payment of the employees shown above; (2) during the pay period reported on this form, all hours worked on this project have been paid at the appropriate prevailing wage rate for the class of work done; (3) the fringe benefits have been paid as indicated above; (4) no rebates or deductions have been or will be made, directly or indirectly from the total wages earned, other than permissible deductions as defined in ORC Chapter 4115; and (5) apprentices are registered with the U.S. Dept. of Labor, Bureau of Apprenticeship and Training. I understand that the willful falsification of any of the above statements may subject the Contractor or Subcontractor to civil or criminal prosecution.

Type or Print Name and Title _____ Signature _____ Date _____



Affidavit of Compliance

Prevailing Wages

I, _____
(Name of person signing affidavit) (Title)

do hereby certify that the wages paid to all employees of

(Company Name)

for all hours worked on the

(Project name and location)

project, during the period from _____ to _____ are in
(Project Dates)

compliance with prevailing wage requirements of Chapter 4115 of the Ohio Revised Code. I further
certify that no rebates or deductions have been or will be made, directly or indirectly, from any wages
paid in connection with this project, other than those provided by law.

(Signature of Officer or Agent)

Sworn to and subscribed in my presence this _____ day of _____, 20_____.

(Notary Public)

The above affidavit must be executed and sworn to by the officer or agent of the contractor or subcontractor who supervises the payment of employees. This affidavit must be submitted to the owner (public authority) before the surety is released or final payment due under the terms of the contract is made.



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- ▶ contacts
- ▶ about LAWS
- ▶ search

Ohio Department of Commerce Bureau of Wage & Hour Administration

[Consumers](#)[Business](#)[License/Permit Holders & Applicants](#)[Other Government Agencies](#)

Submitting Union Contract Information

The Ohio Department of Commerce, Bureau of Wage & Hour, will no longer take union contract information for the establishment of prevailing wage rates via the web. The majority of information from the unions submitted in this manner was not supported with an associated mailing of the actual union contract and an affidavit as required. The Bureau will continue to make every effort to post up to date wage rates as efficiently as possible. In order to do so, those submitting information to the Bureau on behalf of the unions must:

- 1) submit contract information in a timely manner via fax, regular US Mail, or other non-electronic method
- 2) contract information submitted must be the actual signed union contract

Please send the appropriate information to:

Bureau of Wage & Hour
Attn: Kathy Peck
6606 Tussing Road, P.O. Box 4009
Reynoldsburg, Ohio 43068-9009

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APPENDIX C

DOCUMENTS TO BE SUBMITTED WITH BID

General Info

Alt Total: \$94,000.00

Total:

\$2,196,898.50

Number	Description
Taylor Station Road- Claycraft Road Roundabout, ST-1087	This Project consists of constructing a modern roundabout intersection at the intersection of Taylor Station Road, Claycraft Road, and Research Road including concrete curbs, asphalt paving, concrete base, sidewalk, shared use path, water mains, storm sewers, street lighting, signing, pavement markings, and landscaping.
Deadline	Allows zero unit prices and labor
02/09/2024 11:00 AM EST	Yes
Vendor	Allows negative unit prices and labor
Strawser Paving Company	No
Submitted	
02/09/2024 09:48 AM EST	
Signed by	
Kyle strawser	
Opened	
02/09/2024 11:52 AM EST By jill.webb@gahanna.gov	

VENDOR RESOURCES

Vendor Resources Page
Informational page containing instructional videos for vendors.

BidExpress Customer Support Team
Customer support contact. Available Monday-Friday from
7:00am-8:00pm eastern time.

ATTACHMENT LIST

Notice to Bidders.pdf (83.3 KB)

Information & Requirements for Bidders.pdf (158 KB)

Special Provisions.pdf (157 KB)

Prevailing Wage Documentation.pdf (1.81 MB)

Bid Plan Set.pdf (46.8 MB)

SWPPP Manual.pdf (15.4 MB)

Geotechnical Specs.pdf (18.2 MB)

Owner Contractor Agreement & Admin Docs-Appendix E.pdf (997 KB)
This is solely for informational purposes. This form is only filled out once the contract award is issued.

CMS Supplement.pdf (102 KB)

Bid Guaranty and Contract Bond.pdf (10.8 KB)
Please sign & upload a .pdf copy to the Bid Guaranty & Contract Bond & Surety Upload Section within Bid Express.

Addendum No. 1_ST-1087.pdf (47.8 MB)
Please sign & upload a .pdf copy to the Contractor's Qualification Statement (Additional Material) section within Bid Express

Release for Electronic Data.pdf (924 KB)
Refer to Addendum No. 1

PREVAILING WAGE RATES

Current Prevailing Wage Rates are to be included in the contract. The current rates become part of the contract awarded to the lowest and best bidder. The links listed below provide access to forms, regulations, and general information on prevailing wage compliance. These are for information purposes only.

[Prevailing Wage Rates](#)

[Forms & Publications](#)

CONTRACTOR’S QUALIFICATION STATEMENT

The bidder is required to state the following in full detail as will enable the Director of Public Service and Engineering and Council of the City of Gahanna to judge its responsibility, experience, skill and financial standing to meet the obligations of the Contract.

ORGANIZATION:

(a) Number of years your organization has been in business as a Contractor: *

70

(b) Number of years your organization has been in business under its present business name. List any other or former names your organization has operated under. *

70

(c) If your organization is a corporation, list the following: date of incorporation, state of incorporation, President’s name, Vice President’s name(s), Secretary’s name and Treasurer’s name. If not applicable, state “not applicable.” *

3/1/1954, Ohio
Kyle Strawser-President
Clay Strawser-Vice President
Corey Strawser-Secretary-Treasure

(d) If your organization is a partnership, list the following: date of organization, type of partnership (if applicable) and name(s) of general partner(s). If not applicable, state “not applicable.” *

not applicable

(e) If your organization is individually owned, list the following: date of organization and name of owner. If not applicable, state “not applicable.” *

not applicable

(f) If the form of your organization is other than those listed above, describe it and name the principals. If not applicable, state "not applicable." *

not applicable

LICENSING:

(a) List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate registration or license numbers, if applicable. *

Columbus- General Contractor #G02223
Columbus- Sewer/Water #SW00179

(b) List jurisdictions in which your organization's partnership or trade name is filed. *

none

EXPERIENCE:

(a) List the categories of work that your organization normally performs with its own forces. *

asphalt paving, concrete, milling,earthwork,sewer work

(b) List all details of any work your organization has failed to complete. If none, state "none." *

none

(c) List any Claims that your organization or any of its officers have initiated, any Claims initiated against your

organization or any of its officers, any mediation or arbitration proceedings or lawsuits related to any contract your organization or any of its officers have been involved in or is currently involved in, or any judgements or awards outstanding against your organization or any of its officers within the last five (5) years. Please give details for each Claim, including the names and telephone numbers of the persons who are parties, the amount of the Claim, the type of Claim and basis for the Claim, and the outcome. If none, state "none." *

CIVIL CLAIM - CASE 23CV-05-3200 FRANKLIN COUNTY OHIO

Note: As used in this document "Claim" means a Claim initiated under the Contract Documents for a contract.

(d) List any officer or principal of your organization that has ever been an officer or principal of another organization when it failed to complete a contract within the last five (5) years. Please give details for each instance, including the names and telephone numbers of the persons who are parties to the contract, and the reason(s) the contract was not completed. If none, state "none." *

none

(e) List contracts your organization has in progress with an original contract sum of more than \$100,000.00, giving the name of contract, owner and its telephone number, design professional and its telephone number if applicable, contract amount, percent complete and scheduled completion date. State total amount of work in progress and under contract. If none, state "none." *

uploaded

(f) Provide the following information for each contract your organization has had during the last five (5) years, including current contracts, where the contract sum is fifty percent (50%) or more of the bid amount for this Contract, including add alternates: name of contract, scope of work, contract sum, name of owner's representative and owner's telephone number. *

uploaded

Note: If there are more than ten (10) of these contracts, only provide information on the most recent ten (10) contracts, including current contracts.

(g) Provide the following information for each contract your organization has had during the last five (5) years, which your organization believes is of comparable or greater size and complexity than the Owner's contract: name of contract, scope of work, contract sum, name of owner's representative and owner's telephone number. *

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Note: If there are more than five (5) of these contracts, only provide information on the most recent five (5) contracts, including current contracts.

(h) State the average annual amount of contracts your organization has performed during the last five (5) years. *

\$60,000,000.00

(i) If any of the following members of your organization's management, president, chairman of the board, or any director, operates or has operated another company during the last five (5) years, identify the member of management and the name of the company. If none, state "none." *

not applicable

(j) If your organization is operating under a trade name registration with the Secretary of State for the State of Ohio, identify the entity for which the trade name is registered. If none, state "none." *

not applicable

(k) If your organization is a division or wholly-owned subsidiary of another entity or has another relationship with another entity, identify the entity of which it is a division or wholly-owned subsidiary or with which it has another relationship and also identify the nature of the relationship. If not applicable, state "not applicable." *

not applicable

(I) List the education, training and experience for each person who will fill a management role on the Contract, including without limitation the Contract Executive, Contract Manager and Contract Superintendent. For each person listed, include with the other information the last three contracts on which the person worked and the name and telephone number of the owner. *

Corey Strawser - BS Civil Engineering OSU
Marty Blakeway- Associates Degree Construction Management

REFERENCES:

(a) List all trade references. *

Donley Concrete Cutting
McClean Company
Shelly Materials

(b) List all bank references. *

Huntington Bank - Hannah Tracy

(c) List the name of your surety bonding company along with the name and address of your surety agent. *

Fidelity and Deposit Company of Maryland
Kernan Insurance Agency
9932 Brewster Lane
Powell, OH 43065

FINANCING:

(a) Attach a financial statement, preferably audited, including your organization's latest balance sheet and income statement showing the following items: current assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued

income, deposits, materials inventory and prepaid expenses), net fixed assets, other assets, current liabilities (e.g., accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries and accrued payroll taxes) and other liabilities (e.g., capital, capital stock, authorized and outstanding shares par values, earned surplus and retained earnings). **(To upload - Refer to Financial Statements Upload area after the Contractor's Qualification Statement of this solicitation).**

(b) List the name and address of the firm preparing attached financial statement, and date thereof. *

Toukan and Associates

(c) State if the attached financial statement for the identical organization is named on page one. If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-subsidiary). *

Yes

(d) State if the organization whose financial statement is attached will act as guarantor of the Contract. *

Yes

CERTIFICATION:

The undersigned certifies for the reliance of the Owner that after diligent investigation, to the best of the undersigned's belief, the information provided with this Contractor's Qualification Statement is true, accurate and not misleading.

Company Name: *

Strawser Paving Co., Inc.

Signature: *

Kyle Strawser

Date: *

02/09/2024

Printed Name and Title: *

KYLE STRAWSER PRESIDENT

CONTRACTOR’S QUALIFICATION STATEMENT (FINANCIAL STATEMENT UPLOAD)

Name	Omission Terms	Submitted File
Financial Statement Upload Financial Statement Upload		odot prequalification.pdf
1 Required Document		

CONTRACTOR’S QUALIFICATION STATEMENT (ADDITIONAL MATERIAL)

Name	Omission Terms	Submitted File
Optional: Vendor is not required to complete.		
Additional Material Upload #1 Optional Upload as Needed (10MB limit)		signed addendum 1.pdf
Additional Material Upload #2 Optional Upload as Needed (10MB limit)		EXPERIENCE RECORD 2002 update X.xls
Additional Material Upload #3 Optional Upload as Needed (10MB limit)		EXPERIENCE RECORD 2002 update X.xls
3 Required Documents		

SUBCONTRACTORS LIST

The bidder is required to state, in detail, in the space provided below, the name, address, experience and the work to be performed by subcontractors in this Contract, including approximate percentage of the Contract cost by subcontractor. If no subcontractors are to be used, so state. *

Griffin Pavement Striping - Striping
2383 Harrison Rd, Columbus, OH 43204
\$10,197.65
Previous Gahanna Street Programs

Paul Peterson Company
950 Dublin Rd, Columbus, OH 43215
\$16,500
Maintenance of Traffic
ODOT Prequalified

Follow The River
McConnelsville, OH 43756
\$17,648.00
Seeding
ODOT Prequalified

MP DORY CO
2001 Integrity Dr S, Columbus, OH 43209
\$20,917.50
Signs
ODOT Prequalified

Mid-West Landscape Inc.
3450 E 7th Ave, Columbus, OH 43219
\$169,612.95
Landscape
City of Columbus, City of Westerville, Delaware County Engineer (Various Projects)

Asplundh Construction
481 Schrock Rd, Columbus, OH 43229
\$206,387.00
Electrical
ODOT Prequalified

Note: The bidder shall perform within its own organization, work amounting to not less than fifty percent (50%) of the total Contract cost.

CORPORATE AFFIDAVIT

Optional: Vendor is not required to complete.

To be filled in and executed if the contractor is a corporation.

State of: *

Ohio

County of (ss): *

Franklin

being first duly sworn, *

Corey Strawser

deposes and says that he or she is Secretary of *

Strawser Paving Co., Inc.

a corporation organized and existing under and by virtue of the laws of the state of *

Ohio

and having its principal office at (Address), *

1595 Frank Road

(City), *

Columbus

(County), * (State). *

FRANKLIN OHIO

Affiant further says he or she is familiar with the records, minutes, books and by-laws of the (Name of Corporation). *

STRAWSER PAVING CO., INC.

Affiant further says that (Name of Officer),

*

KYLE STRAWSER

(Title) *

PRESIDENT

of the Corporation is duly authorized to sign the Contract for the
_____ **(Contract) ***

Taylor Station Road-Claycraft Road Roundabout, ST-1087

for said Corporation by virtue of _____ **(state whether a provision of by-laws or a resolution of the Board of Directors), ***

BY-LAWS

_____ **(if by**
resolution, give date of adoption).

Signature: *

KYLE STRAWSER

CONTRACTOR'S PERSONAL PROPERTY TAX AFFIDAVIT (O.R.C. § 5719.042)

State of: *

OHIO

County of (ss): *

FRANKLIN

_____, Affiant, *

KYLE STRAWSER

being first duly sworn, deposes and says:

1. I am the (Title): *

PRESIDENT

of (Contractor): *

STRAWSER PAVING CO., INC.

2. The Contractor's offices are located at: *

1595 FRANK ROAD
COLUMBUS, OHIO 43223

3. I am the Contractor's duly authorized representative for making this affidavit.

4. Effective this _____ day: *

9TH

of _____: *

20 _____: *

FEBRAURY

2024

the Contractor _____ with delinquent personal property taxes on the general list of personal property in any Ohio county. *

is not charged

delinquent personal property taxes:

County:

Amount (include total amount, with penalties and interest thereon):

County:

Amount (include total amount, with penalties and interest thereon):

County:

Amount (include total amount, with penalties and interest thereon):

County:

Amount (include total amount, with penalties and interest thereon):

Signature: *

KYLE STRAWSER

NONCOLLUSION AFFIDAVIT

State of: *

OHIO

County of (ss): *

FRANKLIN

Contractor, *

KYLE STRAWSER

being first duly sworn, deposes and says that he or she is

_____ *

president

of

(company name), *

STRAWSER PAVING CO., INC.

the party making the foregoing bid; that such bid is not made in the interest of or on behalf of any undisclosed person, partnership, company, association, organization, or corporation; that such bid is genuine and not collusive or sham; that said bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that any one shall refrain from bidding; that said bidder has not in any manner, directly or indirectly, sought by agreement, communication or conference with anyone to fix any overhead, profit, or cost element of such bid price, or of that of any other bidder, or to secure any advantage against the Owner awarding the Contract to anyone interested in the proposed Contract; that all statements contained in such bid are true; and further, that said bidder has not, directly or indirectly, submitted its bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid and will not pay any fee in connection therewith, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any other individual except to such person or persons as have a partnership or other financial interest with said bidder in its general business.

Signature: *

KYLE STRAWSER

ESCROW WAIVER

Contractor, *

STRAWSER PAVING CO., INC.

agrees to abide by City of Gahanna Ordinance No. 0077-2017. Pursuant to such ordinance and the City's home rule authority, Contractor waives the requirements of Sections 153.13, 153.14 and 153.63 of the Ohio Revised Code that an escrow account be established relating to the Contract and that interest be paid on retainage.

Signature: *

KYLE STRAWSER

BID GUARANTY AND CONTRACT BOND & SURETY UPLOADS

Name	Omission Terms	Submitted File
Bid Guaranty and Contract Bond Bid Guaranty and Contract Bond (Form located in Attachement List)		signed bond.pdf
Surety Company's Power of Attorney Power of attorney for surety company		surety poa.pdf
Surety Company's Financial Statement Financial statement for surety company		surety financials.pdf
Surety Company's Certificate of Complainece from the Ohio Department of Insurance Certificate of complainece from the Ohio Department of Insurance for surety company		surety compliance.pdf
4 Required Documents		

BID FORM & BIDDER CERTIFICATION

Having carefully reviewed the Information and Requirements for Bidders, Drawings, Specifications and other Contract Documents for the Project including having also received, read, and taken into account any Addenda and likewise having inspected the site and the conditions affecting and governing the Project and confirmed the location of the site utilities and all existing structures, the undersigned hereby proposes to furnish all materials and to perform all labor, as specified and described in the said Specifications and/or as shown on the said Drawings for all Work necessary to complete the Project on a timely basis and in accordance with the Contract Documents regardless of whether expressly provided for in such Specifications and Drawings.

Before completing the Bid Form, the undersigned represents that it has carefully reviewed the Notice to Bidders, Information and Requirements for Bidders, this Bid Form, Form of Bid Guaranty and Contract Bond, Contractor's Affidavit (O.R.C. 5719.042), Owner-Contractor Agreement, General Conditions of the Contract (EJCDC C-700, 2013) (as modified), Drawings, Project Specifications, and all other Contract Documents. Failure to comply with provisions of the Contract Documents may be cause for disqualification of the bid.

BONDS AND CONTRACT: If the undersigned is notified of bid acceptance, it agrees to furnish required bonds as indicated in the Information and Requirements for Bidders.

COMPLETION OF WORK: In submitting a bid, the undersigned agrees to execute the Owner-Contractor Agreement in the form included in the Contract Documents and to substantially complete its Work as required by the Contract Documents.

NOTE A: The wording of the Bid Form shall be used throughout, without change, alteration, or addition. Any change may cause it to be rejected.

NOTE B: Bidder is cautioned to bid only on the Brands or Standards specified.

NOTE C: If there is an inconsistency or conflict in the Bid amount, the lowest amount shall control, whether expressed in numbers or words.

INSTRUCTIONS FOR SIGNING

- A. The person signing for a sole proprietorship must be the sole proprietor or his authorized representative. The name of the sole proprietor must be shown below.
- B. The person signing for a partnership must be a partner or his authorized representative.
- C. The person signing for a corporation must be the president, vice president or other authorized representative; or he must show authority, by affidavit, to bind the corporation.
- D. The person signing for some other legal entity must show his authority, by affidavit, to bind the legal entity.

BIDDER CERTIFICATIONS. The Bidder hereby acknowledges that the following representations in this bid are material and not mere recitals:

1. The Bidder acknowledges that this is a public project involving public funds, and that the Owner expects and requires that each successful Bidder adhere to the highest ethical and performance standards. The Bidder by submitting its bid pledges and agrees that (a) it will act at all times with absolute integrity and truthfulness in its dealings with the Owner and the Design Professional, (b) it will use its best efforts to cooperate with the Owner and the Design Professional and all other Contractors on the Project and at all times will act with professionalism and dignity in its dealings with the Owner, Design Professional and other Contractors, (c) it will assign only competent supervisors and workers to the Project, each of whom is fully qualified to perform the tasks that are assigned to him/her, and (d) it has read, understands and will comply with the terms of the Contract Documents.
2. The Bidder represents that it has had a competent person carefully and diligently review each part of the Contract Documents, including the Divisions of the Specifications and parts of the Drawings that are not directly applicable to the Work on which the Bidder is submitting its bid. By submitting its bid, each Bidder represents and agrees, based upon its careful and diligent review of the Contract Documents, that it is not aware of any conflicts, inconsistencies, errors or omissions in the Contract Documents for which it has not notified the Design Professional in writing at least seven (7) days prior to the bid opening. If there are any such conflicts, inconsistencies, errors or omissions in the Contract Documents, the Bidder (i) will provide the labor, equipment or materials of the better quality or greater quantity of Work; and/or (ii) will comply with the more stringent requirements. The Bidder will not be entitled to any additional compensation for any conflicts, inconsistencies, errors or omissions that would have been discovered by such careful and diligent review, unless it has given such prior written notice to Design Professional.
3. The Bidder represents that it has had a competent person carefully and diligently inspect and examine the entire site for the Project and the surrounding area, including all parts of the site applicable to the Work for which it is submitting its bid, including the location, condition and layout of the site and the location of utilities, and carefully correlate the results of the inspection with the requirements of the Contract Documents. The Bidder agrees that its bid shall include all costs attributable to site and surrounding area conditions that would have been discovered by such careful and diligent inspection and examination of the site and the surrounding area, and the Bidder shall not be entitled to any Change Order, additional compensation, or additional time on account of conditions that could not have been discovered by such an investigation.
4. The Bidder represents, understands and agrees that a) the Change Proposal and Claim procedures in the Modified Standard General Conditions are material terms of the Contract Documents, b) if it has a Change Proposal or Claim, it will have its personnel provide complete and accurate information to complete and submit the Change Proposal and / or Statement of Claim form on a timely basis, c) the proper completion and timely submission of a Change Proposal or Statement of Claim form is a condition precedent to any change in the Contract Sum or the Contract Time(s), and d) the proper and timely submission of the Change Proposal or Statement of Claim form provides the Owner and the Design Professional with necessary information so that the Owner may investigate the Claim and mitigate its damages.
5. The Bidder represents that the bid contains the name of every person interested therein and is based upon the Standards specified by the Contract Documents.
6. The Bidder and each person signing on behalf of the Bidder certifies, and in the case of a bid by joint venture, each member thereof certifies as to such member's entity, under penalty of perjury, that to the best of the undersigned's knowledge and belief: (a) the Base Bid, any Unit Prices, Lump Sum Items, and any Alternate bids in the bid have been arrived at independently without collusion, consultation, communication or agreement, or for the purpose of restricting competition as to any matter relating to such Base Bid, Unit Prices, Lump Sum Items, or Alternate bids with any other Bidder; (b) unless otherwise required by law, the Base Bid, any Unit Prices, Lump Sum Items, and any Alternate bids in the bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder prior to the bid opening, directly or indirectly, to any other Bidder who would have any interest in the Base Bid, Unit Prices, Lump Sum Items, or Alternate bids; (c) no attempt has been made or will be made by the Bidder to induce any other Person to submit or not to submit a bid for the purpose of restricting competition; and (d) the statements made in this Bid Form are true and correct.
7. The Bidder will execute the form of Owner/Contractor Agreement in the form included with the Contract Documents, if a Contract is awarded on the basis of this bid, and if the Bidder does not execute the Contract Form for any reason, other than as authorized by law, the Bidder and the Bidder's Surety are liable to the Owner.
8. The Bidder certifies that upon the award of a Contract, the Contractor will ensure that all of the Contractor's employees, while working on the Project site, will not purchase, transfer, use or possess illegal drugs or alcohol or abuse prescription drugs in any way.
9. The Bidder agrees to furnish any information requested by the Design Professional or the Owner's authorized representative to evaluate that the Bidder is the best bidder and that the bid is responsive to the specifications.
10. The Bidder certifies that it has no unresolved findings for recovery issued by the Auditor of State.
11. The Bidder certifies that it is aware of and in compliance with the requirements of Ohio Revised Code Section 3517.13 regarding campaign contributions.

Legal Name of Bidder: *

STRAWSER PAVING CO., INC.

Bidder is: *

corporation

Name and Title of Person Legally Authorized to Bind Bidder to a Contract: *

KYLE STRAWSER - PRESIDENT

Address: *

1595 FRANK ROAD

City *

COLUMBUS

State *

OH

Zip *

43,223

Telephone Number: *

(614) 276-5273

Fax Number:

(614) 276-7565

Federal Tax ID Number: *



Signature: *

KYLE STRAWSER

Date: *

02/09/2024

When the Bidder is a partnership or a joint venture, state name and address of each partner in the partnership or participant in the joint venture below:

Name and Address:

BID FORM (INSTRUCTIONS)

Include the cost of all labor and material for the bid items listed below. Bidder is to fill in all blanks related to the bid items for which a bid is being submitted. If there is a difference between the total bid amount and the total of the individual amounts for labor and materials stated under a bid item, the total of the individual amounts shall be the amount deemed to be inserted in the blank for the total labor and materials for each bid item. If there is an inconsistency or conflict in the bid amount, the lowest amount shall control, whether expressed in numbers or words.

For items the City designates as alternate, enter a negative value if it is to be deducted from the Base Bid. Otherwise the item(s) will be included as an addition to the base bid. If opting out of bidding an alternate item, check mark the box in the optional column located to the left of the item to insert the words "No Bid".

BID FORM

\$2,196,898.50

REF #	ITEM #	DESCRIPTION	QTY	UNIT	MATERIAL	LABOR	Extension
Alternates are not included in bid total.							
1	201	Clearing and Grubbing	1.00	LS	\$0.00	\$5,000.00	\$5,000.00
2	202	Pipe Removed, 24" and Under	1,125.00	FT	\$3.99	\$11.01	\$16,875.00
3	202	Catch Basin Removed	5.00	EA	\$0.00	\$250.00	\$1,250.00
4	202	Water Valve Removed	3.00	EA	\$0.00	\$60.00	\$180.00
5	202	Removal Misc.: Commercial Sign Removed	3.00	EA	\$0.00	\$350.00	\$1,050.00
6	202	Guardrail Removed	70.00	FT	\$0.00	\$6.00	\$420.00
7	202	Walk Removed	325.00	SF	\$0.00	\$2.00	\$650.00
8	202	Curb and Gutter Removed	390.00	FT	\$0.00	\$13.00	\$5,070.00
9	202	Curb Removed	250.00	FT	\$0.00	\$13.00	\$3,250.00
10	202	Removal Misc.: Flagpole Removed	3.00	EA	\$0.00	\$125.00	\$375.00
11	202	Removal Misc.: Headwall/Endwall Removed	1.00	EA	\$0.00	\$270.00	\$270.00
12	203	Excavation	4,001.00	CY	\$0.00	\$27.00	\$108,027.00
13	203	Embankment	985.00	CY	\$0.00	\$20.00	\$19,700.00
14	204	Subgrade Compaction	7,330.00	SY	\$0.00	\$1.00	\$7,330.00
15	204	Proof Rolling	4.00	Hour	\$0.00	\$150.00	\$600.00
16	204*	Undercutting and Disposal of Unsuitable Materials	620.00	CY	\$0.00	\$35.00	\$21,700.00
17	204*	Granular Material, Type B	620.00	CY	\$31.43	\$28.57	\$37,200.00
18	204*	Geotextile Fabric Type D	1,840.00	SY	\$0.50	\$0.00	\$920.00
19	608	Concrete Walk (T=5")	2,300.00	SF	\$4.24	\$9.76	\$32,200.00
							Total: \$2,196,898.50

REF #	ITEM #	DESCRIPTION	QTY	UNIT	MATERIAL	LABOR	Extension
20	608	Concrete Walk (T=8")	1,815.00	SF	\$6.05	\$13.95	\$36,300.00
21	608	Curb Ramps, Cost to Finish	22.00	EA	\$0.00	\$141.00	\$3,102.00
22	608	Detectable Warning	220.00	SF	\$17.00	\$0.00	\$3,740.00
23	ODOT 623*	Right of Way Monuments	10.00	EA	\$600.00	\$0.00	\$6,000.00
24	Special	Mailbox Removed and Reset	1.00	EA	\$0.00	\$175.00	\$175.00
25	254	Pavement Planing, Asphalt Concrete (T=1.5")	650.00	SY	\$0.00	\$10.00	\$6,500.00
26	259	Driveway Pavement Replacement, Type IIIA	80.00	CY	\$93.77	\$247.23	\$27,280.00
27	304	Aggregate Base (T=6")	900.00	CY	\$33.90	\$81.10	\$103,500.00
28	305	Concrete Base (T=9")	3,510.00	SY	\$53.11	\$16.89	\$245,700.00
29	407	Non-Tracking Tack Coat for Surface Course (0.055 Gal/SY) (For Full-Depth and SUP)	240.00	GAL	\$2.00	\$1.00	\$720.00
30	407	Non-Tracking Tack Coat, Type SBR Asphalt Emulsion (702.13) (0.08 Gal/SY)	280.00	GAL	\$2.00	\$1.00	\$840.00
31	407	Non-Tracking Tack Coat (0.085 Gal/SY) (Resurfacing)	60.00	GAL	\$2.00	\$1.00	\$180.00
32	423	Crack Sealing	160.00	Pound	\$0.30	\$1.70	\$320.00
33	441	Asphalt Concrete, Intermediate Course, Type 2, (448), PG64-22 (T=1.75")	180.00	CY	\$164.09	\$89.91	\$45,720.00
34	441	Asphalt Concrete, Surface Course, Type 1, (448), 70-22M (T=1.5") (Full Depth and Resurfacing)	180.00	CY	\$207.12	\$89.88	\$53,460.00
35	452	Non-Reinforced Concrete Pavement (T=8") (Commercial Driveway)	539.00	SY	\$57.29	\$62.71	\$64,680.00
36	609	Combination Curb and Gutter, Type 8" Special	1,900.00	FT	\$14.65	\$7.85	\$42,750.00
37	609	Curb, Straight 18"	1,500.00	FT	\$9.31	\$18.19	\$41,250.00
Total: \$2,196,898.50							

REF #	ITEM #	DESCRIPTION	QTY	UNIT	MATERIAL	LABOR	Extension
38	609	Curb, Type 3-B, As Per Plan	450.00	FT	\$10.64	\$8.36	\$8,550.00
39	609	Concrete Traffic Island	30.00	SY	\$58.25	\$116.75	\$5,250.00
40	SS 1530	Asphalt Concrete, Surface Course, Type 1, (448), PG64-22 (For SUP) (T=1.25")	30.00	CY	\$188.67	\$246.33	\$13,050.00
41	SS 1530	Asphalt Concrete, Intermediate Course, Type 2, (448), (For SUP) (T=1.75")	40.00	CY	\$168.36	\$228.64	\$15,880.00
42	Special	Brick Median Pavers	280.00	SY	\$36.87	\$274.13	\$87,080.00
43	Special	Truck Apron Pavement, Brick Pavers on Concrete Base	463.00	SY	\$58.20	\$252.80	\$143,993.00
44	614	Maintaining Traffic, As Per Plan	1.00	LS	\$0.00	\$31,000.00	\$31,000.00
45	616	Dust Control, As Per Plan	1.00	LS	\$0.00	\$200.00	\$200.00
46	603	4" Conduit, Type F for Underdrain Outlets	125.00	FT	\$3.08	\$8.92	\$1,500.00
47	604	Manhole, Reconstruct to Grade	4.00	EA	\$44.56	\$175.44	\$880.00
48	604	Catch Basin (AA-S133A)	1.00	EA	\$933.59	\$3,816.41	\$4,750.00
49	604	Curb and Gutter Inlet (AA-S125A)	8.00	EA	\$1,649.08	\$2,000.92	\$29,200.00
50	604	Manhole, Type C (AA-S102)	3.00	EA	\$1,562.89	\$2,937.11	\$13,500.00
51	604	Manhole, Type E (AA-S104)	3.00	EA	\$2,969.55	\$3,130.45	\$18,300.00
52	605	4" Pipe Underdrain with #8 or #57 Aggregate	2,475.00	FT	\$4.70	\$9.30	\$34,650.00
53	901	12" Pipe, with Type 1 Bedding, with Item 911 Compacted Backfill	30.00	FT	\$23.79	\$79.21	\$3,090.00
54	901	12" Pipe, with Type 1 Bedding, with Item 912 Compacted Granular Material	450.00	FT	\$38.24	\$95.26	\$60,075.00
55	901	15" Pipe, with Type 1 Bedding, with Item 912 Compacted Granular Material	85.00	FT	\$47.32	\$115.68	\$13,855.00
56	Special	Manufactured Water Quality	2.00	EA	\$11,988.56	\$5,011.44	\$34,000.00
Total: \$2,196,898.50							

REF #	ITEM #	DESCRIPTION	QTY	UNIT	MATERIAL	LABOR	Extension
		Structure, Type 1					
57	207*	Construction Seeding and Mulching	1,700.00	SY	\$0.00	\$1.00	\$1,700.00
58	207	Rock Ditch Checks	3.00	EA	\$0.00	\$500.00	\$1,500.00
59	207	Inlet Protection	17.00	EA	\$0.00	\$200.00	\$3,400.00
60	207	Perimeter Filter Fabric Fence	930.00	FT	\$0.00	\$3.00	\$2,790.00
61	659	Topsoil (T=3")	280.00	CY	\$15.01	\$89.99	\$29,400.00
62	659	Commercial Fertilizer	0.45	Ton	\$0.00	\$1,500.00	\$675.00
63	659	Seeding and Mulching, Class 1	3,310.00	SY	\$0.00	\$1.50	\$4,965.00
64	659	Water	18.00	M Gal	\$0.00	\$1.00	\$18.00
65	Special	Concrete Washout Area	1.00	EA	\$300.00	\$0.00	\$300.00
66	Special	Tree Protection Fence	180.00	FT	\$0.00	\$5.00	\$900.00
67	801	6" Water Pipe and Fittings	15.00	FT	\$100.47	\$174.53	\$4,125.00
68	801	8" Water Pipe and Fittings	175.00	FT	\$69.43	\$184.57	\$44,450.00
69	801	12" Water Pipe and Fittings	15.00	FT	\$184.79	\$167.21	\$5,280.00
70	801	16" Water Pipe and Fittings	615.00	FT	\$132.41	\$145.59	\$170,970.00
71	802	6" Valve and Appurtenances	2.00	EA	\$1,700.00	\$0.00	\$3,400.00
72	802	8" Valve and Appurtenances	1.00	EA	\$2,400.00	\$0.00	\$2,400.00
73	802	16" Valve and Appurtenances	2.00	EA	\$12,600.00	\$0.00	\$25,200.00
74	805	1" Water Service Line Transfer	4.00	EA	\$1,490.43	\$5,509.57	\$28,000.00
75	808	8" Water Main Lowering	1.00	EA	\$5,377.65	\$11,622.35	\$17,000.00
76	809	Fire Hydrant, Relocated	1.00	EA	\$1,243.14	\$2,656.86	\$3,900.00
77	809	Fire Hydrant, Type A	2.00	EA	\$4,922.51	\$2,677.49	\$15,200.00
78	604	Manhole Adjusted to Grade, Sanitary	1.00	EA	\$568.18	\$1,431.82	\$2,000.00
79	604	Manhole Reconstructed to Grade,	2.00	EA	\$1,132.53	\$3,567.47	\$9,400.00
Total: \$2,196,898.50							

REF #	ITEM #	DESCRIPTION	QTY	UNIT	MATERIAL	LABOR	Extension
		Sanitary					
80	621	Raised Pavement Marker Removed	15.00	EA	\$0.00	\$10.00	\$150.00
81	630	Sign Post Reflector	16.00	EA	\$25.00	\$25.00	\$800.00
82	630	Ground Mounted Supports	448.00	LF	\$10.00	\$10.00	\$8,960.00
83	630	Sign, Single-Faced, Street Name, As Per Plan	64.00	SF	\$15.00	\$15.00	\$1,920.00
84	630	2.0 inch Street Name Sign Support, As Per Plan	4.00	EA	\$400.00	\$400.00	\$3,200.00
85	630	Sign Support Assembly, Pole Mounted, As Per Plan	1.00	EA	\$100.00	\$100.00	\$200.00
86	630	Sign, Flat Sheet	210.50	SF	\$12.50	\$12.50	\$5,262.50
87	630	Removal of Ground Mounted Sign and Storage	6.00	EA	\$0.00	\$25.00	\$150.00
88	630	Removal of Pole Mounted Sign and Reerection	1.00	EA	\$0.00	\$250.00	\$250.00
89	630	Removal of Ground Mounted Post Support and Disposal	5.00	EA	\$0.00	\$25.00	\$125.00
90	630	Signing, Misc.: Solar Powered Rectangular Rapid Flashing Beacon (RRFB) Sign System	4.00	EA	\$7,192.02	\$7,192.02	\$57,536.16
91	630	Removal of Pole Mounted Sign and Storage	2.00	EA	\$0.00	\$25.00	\$50.00
92	632	Removal of Traffic Signal Installation, As Per Plan	1.00	EA	\$0.00	\$4,665.65	\$4,665.65
93	644	Edge Line	0.23	MILE	\$3,250.00	\$3,250.00	\$1,495.00
94	644	Center Line	0.20	MILE	\$5,225.00	\$5,225.00	\$2,090.00
95	644	Stop Line	21.00	LF	\$4.63	\$4.63	\$194.46
96	644	Transverse/Diagonal Line	165.00	LF	\$4.50	\$4.50	\$1,485.00
97	644	Yield Line, 20"	89.00	LF	\$2.00	\$2.00	\$356.00
							Total: \$2,196,898.50

REF #	ITEM #	DESCRIPTION	QTY	UNIT	MATERIAL	LABOR	Extension
98	644	Lane Arrow	2.00	EA	\$55.00	\$55.00	\$220.00
99	644	Crosswalk Line, 10"	218.00	LF	\$2.15	\$2.15	\$937.40
100	647	Crosswalk Line, 24"	200.00	LF	\$8.55	\$8.55	\$3,420.00
101	1001	Conduit Riser, 2" Diameter, SCH 80, As Per Plan	1.00	EA	\$1,639.50	\$1,639.50	\$3,279.00
102	1001	Pull Box 13"X24" (COC MIS-54)	5.00	EA	\$0.00	\$1,094.12	\$5,470.60
103	1001	Pull Box 17"X30" (COC MIS-54)	1.00	EA	\$595.19	\$595.19	\$1,190.38
104	1001	Underground Lighting Circuit, 3-wire (MIS-404), As Per Plan	1,014.00	Ckt. Ft.	\$3.58	\$3.58	\$7,260.24
105	1001	2" Conduit, Concrete Encased (MIS-700)	999.00	LF	\$13.79	\$13.79	\$27,552.42
106	1001	Street Light Foundation, 6 ft. (MIS-201)	8.00	EA	\$657.03	\$657.03	\$10,512.48
107	1001	Pole to be Wired, 3-Wire (MIS-501)	8.00	EA	\$108.35	\$108.35	\$1,733.60
108	1001	120V Pad Mounted Lighting Control Center, As Per Plan (MIS-603)	1.00	EA	\$3,845.06	\$3,845.06	\$7,690.12
109	1001	Light Pole, As Per Plan	8.00	EA	\$1,472.29	\$1,472.29	\$23,556.64
110	1001	Luminaire, Cobra Head, As Per Plan	8.00	EA	\$201.89	\$201.89	\$3,230.24
111	1001	Luminaire, Cobra Head, As Per Plan (Furnish Only)	2.00	EA	\$167.17	\$167.17	\$668.68
112	SPECIAL	Power Meter Cabinet, Base Mount, with Foundation, As Per Plan	1.00	EA	\$4,305.25	\$4,305.25	\$8,610.50
113	625	No. 4 AWG 600 Volt Distribution Cable	1,074.00	LF	\$1.30	\$1.30	\$2,792.40
114	625	Conduit, Concrete Encased, 2", 725.051	307.00	LF	\$15.13	\$15.13	\$9,289.82
115	625	Conduit, Concrete Encased, 3", 725.051	94.00	LF	\$17.10	\$17.10	\$3,214.80
116	625	Trench	401.00	LF	\$0.00	\$10.77	\$4,318.77
							Total: \$2,196,898.50

REF #	ITEM #	DESCRIPTION	QTY	UNIT	MATERIAL	LABOR	Extension
117	ODOT 809	CCTV IP-camera System, Dome-Type, As Per Plan	1.00	EA	\$2,055.25	\$2,055.25	\$4,110.50
118	ODOT 809	ITS Cabinet - Ground Mounted	1.00	EA	\$7,717.09	\$7,717.09	\$15,434.18
119	1001	Pull Box 13"X24" (COC MIS-54)	4.00	EA	\$535.12	\$535.12	\$4,280.96
120	661	Carpinus Betulus 'Fastigiata' (Pyramidal European Hornbeam)	3.00	EA	\$0.00	\$850.00	\$2,550.00
121	661	Juniperus x Media 'Pfitzerana Compacta' (Compact Pfitzer Jiuniper)	24.00	EA	\$105.00	\$105.00	\$5,040.00
122	661	Spiraea x Bumalda 'Denistar' (Superstar Spirea)	39.00	EA	\$107.50	\$107.50	\$8,385.00
123	619	Field Office, Type C	8.00	Month	\$0.00	\$1,000.00	\$8,000.00
124	623	Construction Layout Stakes	1.00	LS	\$0.00	\$25,000.00	\$25,000.00
125	624	Mobilization	1.00	LS	\$0.00	\$69,200.00	\$69,200.00
126	108	Type B CPM Progress Schedule	1.00	LS	\$0.00	\$1,000.00	\$1,000.00
							Total: \$2,196,898.50

BID FORM (ALTERNATE BID)

REF #	ITEM #	DESCRIPTION	QTY	UNIT	MATERIAL	LABOR	Extension
Alternate: Owner-agency may award independently from entire bid.							
Component is not included in bid total.							
Alternates are not included in bid total.							
1	614	Portable Changeable Message Sign, As Per Special Provision	4.00	EA	\$23,500.00	\$0.00	\$94,000.00
Alternate Total: \$94,000.00							Total:

Company Profile
STRAWSER PAVING CO INC[Edit Company Profile](#)

Address	Phone	Fax
1595 FRANK RD COLUMBUS, Ohio 43223	614-276-5273	614-276-7565

STRAWSER PAVING CO INC
Pre-Qualification Application

Application Name	Certification Date	Expiration Date	Prequalification Amount	Status
APP-08320	6/12/2023	5/31/2024	\$206,115,186.00	Approved

STRAWSER PAVING CO INC
Work Type Applications[Create Work Type Application](#)

Work Type	Number of Projects	Status
1. Clearing and Grubbing	0	Approved
2. Building Removal	0	Approved
4. Roadway Excavation and Embankment Construction	0	Approved
6. Incidental Grading	0	Approved
7. Soil Stabilization	0	Approved
8. Temporary Soil Erosion & Sediment Control	0	Approved
9. Aggregate Bases	0	Approved
10. Flexible Paving	0	Approved
11. Apply Bituminous Treatments	0	Approved
12. Rigid Paving	2	Approved
13. Pavement Planing, Milling, Scarification	0	Approved
15. Sawing	0	Approved
16. Flexible Replacement	0	Approved
17. Rigid Pavement Replacement	0	Approved
19. Structure Removal	0	Approved
23. Reinforcing Steel	0	Approved
35. Drainage (culvert, misc.)	0	Approved
38. Miscellaneous Concrete	0	Approved
39. Maintenance of Traffic	0	Approved
42. Signing	0	Approved
46. Landscaping	0	Approved
48. Trucking	0	Approved



ADDENDUM # 1
TAYLOR STATION ROAD-CLAYCRAFT ROAD ROUNDABOUT ST-1087

1. **ITEM 809, CCTV IP-CAMERA SYSTEM, DOME-TYPE, AS PER PLAN**

In addition to the requirements of ODOT 809, the Contractor shall furnish and install a camera as manufactured by **Axis Model #P3737**. The camera shall be furnished with the following:

- Camera housing, brackets and all mounting hardware shall be coated "Gahanna Green" to match the proposed light poles.
- The camera shall be mounted in an outdoor rated enclosure as recommended by the manufacture. The enclosure shall not limit the function or visibility of the camera.
- All mounting hardware and brackets required to mount this camera to the proposed light pole as indicated in the plan shall be incidental to this item.
- All power and data communication cables shall be furnished and installed under this item work. Cables shall be installed from the camera to the proposed ITS cabinet.

A fiber optic connection from the adjacent Columbus Fiber Net manhole to the proposed ITS cabinet will be made by Columbus Fiber Net (CFN).

Payment shall be per each camera furnished and installed and include all labor, materials, mounting hardware, protective housings, cables/wiring to provide a fully functioning camera.

2. If you would like access to CAD files, please see the attached Release for Electronic Information form located in the attachment section within Bid Express. Please download/complete the form and return it to Andy Kushmeider at EMH&T – akushmeider@emht.com.

Please sign and upload a .pdf copy to the Additional Material Upload section located on Bid Express under the Contractor's Qualification Statement due on **February 9, 2024 @ 11:00 AM**.

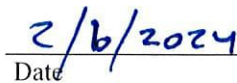
ADDENDUM # 1 is hereby acknowledged:



Signature and Title



Company Name



Date

Issued: February 6, 2024

BID GUARANTY AND CONTRACT BOND
(O.R.C § 153.571)

Know all persons by these presents, that we, the undersigned Strawser Paving Co., Inc.
(Contractor) as principal and Fidelity and Deposit Company of Maryland as surety are hereby
held and firmly bound unto the City of Gahanna, as obligee in the penal sum of the dollar amount of the
bid submitted by the principal to the obligee on February 9, 2024, to undertake the
Taylor Station Road - Claycraft Road Roundabout, ST-1087 (Project).

The penal sum referred to herein shall be the dollar amount of the principal's bid to the obligee,
incorporating any additive or deductive alternates made by the principal on the date referred to above to
the obligee, which are accepted by the obligee. In no case shall the penal sum exceed the amount of
_____ dollars (\$_____).

(If the foregoing blank is not filled in, the penal sum will be the full amount of the principal's bid,
including add alternates. Alternatively, if the blank is filled in the amount stated must not be less than the
full amount of the bid including add alternates, in dollars and cents. A percentage is not acceptable.) For
the payment of the penal sum well and truly to be made, we hereby jointly and severally bind ourselves,
our heirs, executors, administrators, successors, and assigns.

Signed this 9th day of February, 2024.

The condition of the above obligations is such that whereas the above named principal has submitted a
bid for work on the Contract.

Now, therefore, if the obligee accepts the bid of the principal and the principal fails to enter into a proper
contract in accordance with the bid, plans, details, specifications and bills of material; and in the event the
principal pays to the obligee the difference not to exceed ten percent (10%) of the penalty hereof
between the amount specified in the bid and such larger amount for which the obligee may in good faith
contract with the next lowest bidder to perform the work covered by the bid; or in the event the obligee
does not award the contract to the next lowest bidder and resubmits the contract for bidding, the
principal pays to the obligee the difference not-to-exceed ten percent (10%) of the penalty hereof
between the amount specified in the bid, or the costs, in connection with the resubmission, of printing
new contract documents, required advertising, and printing and mailing notices to prospective bidders,
whichever is less, then this obligation shall be null and void, otherwise to remain in full force and effect; if
the obligee accepts the bid of the principal and the principal within ten (10) days after the awarding of the
contract enters into a proper contract in accordance with the bid, plans, details, specifications and bills of
material, which said contract is made a part of this bond the same as though set forth herein.

Now also, if the said principal shall well and faithfully do and perform the things agreed by said principal
to be done and performed according to the terms of said contract; and shall pay all lawful claims of
subcontractors, materialmen, and laborers, for labor performed and materials furnished in the carrying
forward, performing, or completing of said contract; we agreeing and assenting that this undertaking shall
be for the benefit of any materialman or laborer having a just claim, as well as for the obligee herein; then
this obligation shall be void; otherwise the same shall remain in full force and effect; and surety shall
indemnify the obligee against all damage suffered by failure of the principal to perform the contract
according to its provisions and in accordance with the plans, details, specifications and bills of material
therefor and to pay all lawful claims of subcontractors, materialmen, and laborers for labor performed or
material furnished in carrying forward, performing, or completing the contract and surety further agrees
and assents that this undertaking is for the benefit of any subcontractor, materialman, or laborer having a

just claim, as well as for the obligee; it being expressly understood and agreed that the liability of the surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

The said surety hereby stipulates and agrees that no modifications, omissions, or additions in or to the terms of the said contract or in or to the plans or specifications therefore shall in any wise affect the obligations of said surety on its bond, and does hereby waive notice of any such modifications, omissions or additions to the terms of the contract or to the work or to the specifications.

Signed and sealed this 9th day of February, 2024.

Strawser Paving Co., Inc.

Principal

Signature


KYLE STRAWSER PRESIDENT

Printed Name and Title

Fidelity and Deposit Company of Maryland

Surety


Signature

Laura M. Batchelder / Attorney-in-Fact

Printed Name and Title

1299 Zurich Way, Schaumburg, IL 50196-1056

Surety's Address

312-496-9593

Surety's Telephone Number

Surety's Fax Number

Kernan Insurance Agency, Inc.

Surety's Agent

9932 Brewster Lane, Powell, OH 43065

Surety Agent's Address

614-764-0121

Surety Agent's Telephone Number

614-764-6914

Surety Agent's Fax Number

**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND
POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Illinois, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Illinois (herein collectively called the "Companies"), by **Robert D. Murray, Vice President**, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint Gerald A. KERNAN, Joseph T. LEMASTERS, Cheryl CRAMER, Laura BATCHELDER, Thomas J. LITMAN of Powell, Ohio, its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings**, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said **ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND**, this 05th day of July, A.D. 2022.



ATTEST:
**ZURICH AMERICAN INSURANCE COMPANY
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY
FIDELITY AND DEPOSIT COMPANY OF MARYLAND**

A handwritten signature in blue ink, appearing to read 'Robert D. Murray'.

By: *Robert D. Murray*
Vice President

A handwritten signature in blue ink, appearing to read 'Dawn E. Brown'.

By: *Dawn E. Brown*
Secretary

**State of Maryland
County of Baltimore**

On this 05th day of July, A.D. 2022, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **Robert D. Murray, Vice President and Dawn E. Brown, Secretary** of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, depose and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.



A handwritten signature in blue ink, appearing to read 'Constance A. Dunn'.

Constance A. Dunn, Notary Public
My Commission Expires: July 9, 2023

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 9th day of February, 2024.



MJ Pethick

By: Mary Jean Pethick
Vice President

TO REPORT A CLAIM WITH REGARD TO A SURETY BOND, PLEASE SUBMIT A COMPLETE DESCRIPTION OF THE CLAIM INCLUDING THE PRINCIPAL ON THE BOND, THE BOND NUMBER, AND YOUR CONTACT INFORMATION TO:

Zurich Surety Claims
1299 Zurich Way
Schaumburg, IL 60196-1056
Ph: 800-626-4577

If your jurisdiction allows for electronic reporting of surety claims, please submit to:
reportsfclaims@zurichna.com

Authenticity of this bond can be confirmed at bondvalidator.zurichna.com or 410-559-8790

THE FIDELITY AND DEPOSIT COMPANY

OF MARYLAND

1299 Zurich Way Schaumburg, IL 60196

Statement of Financial Condition

As Of December 31, 2020

ASSETS

Bonds.....	\$ 262,624,334
Stocks	19,715,392
Cash and Short-Term Investments	3,219,781
Reinsurance Recoverable	17,293,466
Federal Income Tax Recoverable.....	114,253
Other Accounts Receivable.....	29,083,530
TOTAL ADMITTED ASSETS.....	\$ 332,050,756

LIABILITIES, SURPLUS AND OTHER FUNDS

Reserve for Taxes and Expenses	\$ 539,588
Ceded Reinsurance Premiums Payable	43,847,005
Remittances and Items Unallocated	0
Payable to parents, subs and affiliates	0
Securities Lending Collateral Liability.....	0
TOTAL LIABILITIES.....	\$ 44,413,593
Capital Stock, Paid Up	\$ 5,000,000
Surplus.....	282,637,163
Surplus as regards Policyholders.....	287,637,163
TOTAL	\$ 332,050,756

Securities carried at \$165,065,329 in the above statement are deposited with various states as required by law.

Securities carried on the basis prescribed by the National Association of Insurance Commissioners. On the basis of market quotations for all bonds and stocks owned, the Company's total admitted assets at December 31, 2020 would be \$346,439,970 and surplus as regards policyholders \$302,026,377.

I, LAURA J. LAZARCZYK, Corporate Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing statement is a correct exhibit of the assets and liabilities of the said Company on the 31st day of December, 2020.

DocuSigned by:

Laura J. Lazarczyk

429F69B474374B0...

Corporate Secretary

State of Illinois }
City of Schaumburg } SS:

Subscribed and sworn to, before me, a Notary Public of the State of Illinois, in the City of Schaumburg, this 15th day of March, 2021.



[Signature]

Notary Public

Office of Risk Assessment
50 West Town Street
Third Floor - Suite 300
Columbus, Ohio 43215
(614)644-2658
Fax(614)644-3256
www.insurance.ohio.gov

Ohio Department of Insurance

Mike DeWine - Governor

Judith French - Director

Certificate of Compliance



Issued 03/23/2023

Effective 04/02/2023

Expires 04/01/2024

I, Judith French, hereby certify that I am the Director of Insurance in the State of Ohio and have supervision of insurance business in said State and as such I hereby certify that

FIDELITY AND DEPOSIT COMPANY OF MARYLAND, THE

of Illinois is duly organized under the laws of this State and is authorized to transact the business of insurance under the following section(s) of the Ohio Revised Code:

Section 3929.01 (A)

Allied Lines

Boiler & Machinery

Burglary & Theft

Commercial Auto - Liability

Commercial Auto - No Fault

Commercial Auto - Physical Damage

Credit

Earthquake

Fidelity

Financial Guaranty

Fire

Glass

Inland Marine

Multiple Peril - Commercial

Multiple Peril - Homeowners

Other Liability

Surety

Workers Compensation

FIDELITY AND DEPOSIT COMPANY OF MARYLAND, THE certified in its annual statement to this Department as of December 31, 2022 that it has admitted assets in the amount of \$284,263,392, liabilities in the amount of \$43,395,865, and surplus of at least \$240,867,527.

IN WITNESS WHEREOF, I have hereunto subscribed my name and caused my seal to be affixed at Columbus, Ohio, this day and date.

Judith L. French

Judith French, Director

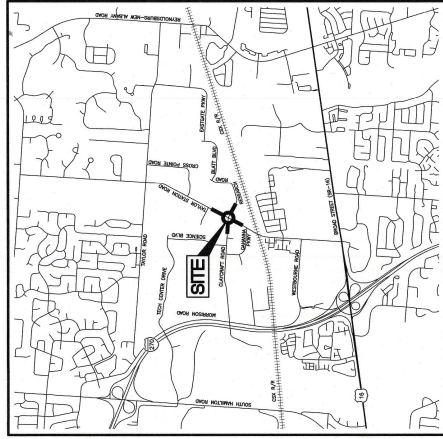


APPENDIX D

Taylor Station Rd-Claycraft Rd Roundabout
ST-1087 Plans

Geotechnical Specs

SWPPP Manual



LOCATION MAP
LATITUDE: 39°59'32.87"N LONGITUDE: 82°50'24.03"W
SCALE: 1" = 1/2 MILE

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
STATE & FEDERAL ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION
CURRENT ADT (2021)
DESIGN YEAR ADT (2041)
DESIGN SPEED
LEGAL SPEED
DESIGN FUNCTIONAL CLASSIFICATION:

CLAYCRAFT ROAD
3,766
5,596
35 MPH
MAJOR COLLECTOR

RESEARCH ROAD
2,999
4,456
25 MPH
LOCAL

TAYLOR STATION ROAD
12,337
18,332
35 MPH
MAJOR COLLECTOR

TAYLOR STATION ROAD & CLAYCRAFT ROAD RESEARCH ROAD ROUNDABOUT

CITY OF GAHANNA
JEFFERSON TOWNSHIP
FRANKLIN COUNTY
ST-1087

PROJECT DESCRIPTION

Reconstruction of the Claycraft, Road & Taylor Station Roundabout including curbs, landscape, storm sewer, water main, and street lighting.

EARTH DISTURBED AREAS

2.0% ACRES
0.00 ACRES
Notice of intent earth disturbed area:

2018 SPECIFICATIONS

The City Of Columbus Construction and Materials Specifications (11th edition) including all revisions and supplements in effect at the time of publication shall govern all construction items that are a part of this plan unless noted otherwise.

CITY OF GAHANNA APPROVAL

SIGNATURES BELOW SIGNIFY ONLY GENERAL CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

[Signature]
DIRECTOR OF ENGINEERING, CITY OF GAHANNA
DATE: 1/15/2024

Jim Turner
SENIOR UTILITIES ENGINEER, CITY OF GAHANNA
DATE:

Joann Bury
DIRECTOR OF FINANCE, CITY OF GAHANNA
DATE:

Daniel S. Anverse
DIRECTOR OF PUBLIC SERVICE, CITY OF GAHANNA
DATE:

Laurie A. Jadin
MAYOR, CITY OF GAHANNA
DATE:

STANDARD CONSTRUCTION DRAWINGS					SUPPLEMENTAL SPECIFICATIONS						
CITY OF COLUMBUS					ODOT	COLUMBUS					
AA-2102	12/06/13	L-63164	01/26/18	2000	03/20/18	MS-54	12/06/13	BP-5.1	07/17/20	1524	5/8/2014
AA-2104	09/09/14	L-63169	01/26/18	2020	04/20/18	MS-55	12/07/23	MT-101.90	07/17/20	1530	11/8/2019
AA-2105	07/09/12	L-64094	09/21/22	2161	04/20/18	MS-55	12/07/23	MT-105.10	07/17/20	1530	1/1/2023
AA-2112	12/06/13	L-66374	09/21/22	2187	07/01/21	MS-201	01/07/18	MT-110.30	07/19/13		
AA-2117	07/09/12	L-66440	09/21/22	2191	03/20/18	MS-404	01/07/18	MT-141.30	04/20/21		
AA-2125A	08/09/14	L-71028A	01/26/18	2195	03/20/18	MS-501	12/07/23	TC-48.20	10/18/13		
AA-2125B	08/09/14	L-71028B	01/26/18	2202	07/01/22	MS-603	01/07/18	TC-49.20	10/18/13		
AA-2126	08/09/14	L-7102C	01/26/18	2211	04/20/18	MS-700	08/28/23	TC-58.20	07/15/21		
AA-2133A	08/09/14	L-7401	09/21/22	2220	04/20/18	MS-800	01/07/18	TC-71.10	04/21/23		
AA-2133B	12/06/13	L-8502	09/21/22	2230	07/01/21			TC-74.10	01/20/23		
AA-2139	01/28/18	L-1441	07/01/22	2310	07/01/22	ITS-10.10	01/20/23	ITS-10.11	01/20/23		
L-8309A	09/21/22	L-1900	09/15/15	2319	07/01/22	ITS-12.50	07/16/21	ITS-12.50	07/16/21		
L-8310	01/28/18	L-1920	09/15/15	2321	07/01/22	ITS-18.00	07/16/21	ITS-18.00	07/16/21		
L-8311	11/17/23	L-1940	09/15/15	4163	10/01/20			ITS-40.10	09/20/23		
L-8312	01/28/18	L-1950	09/15/15	4254	09/01/14						

ENGINEER'S SEAL:

STATE OF OHIO

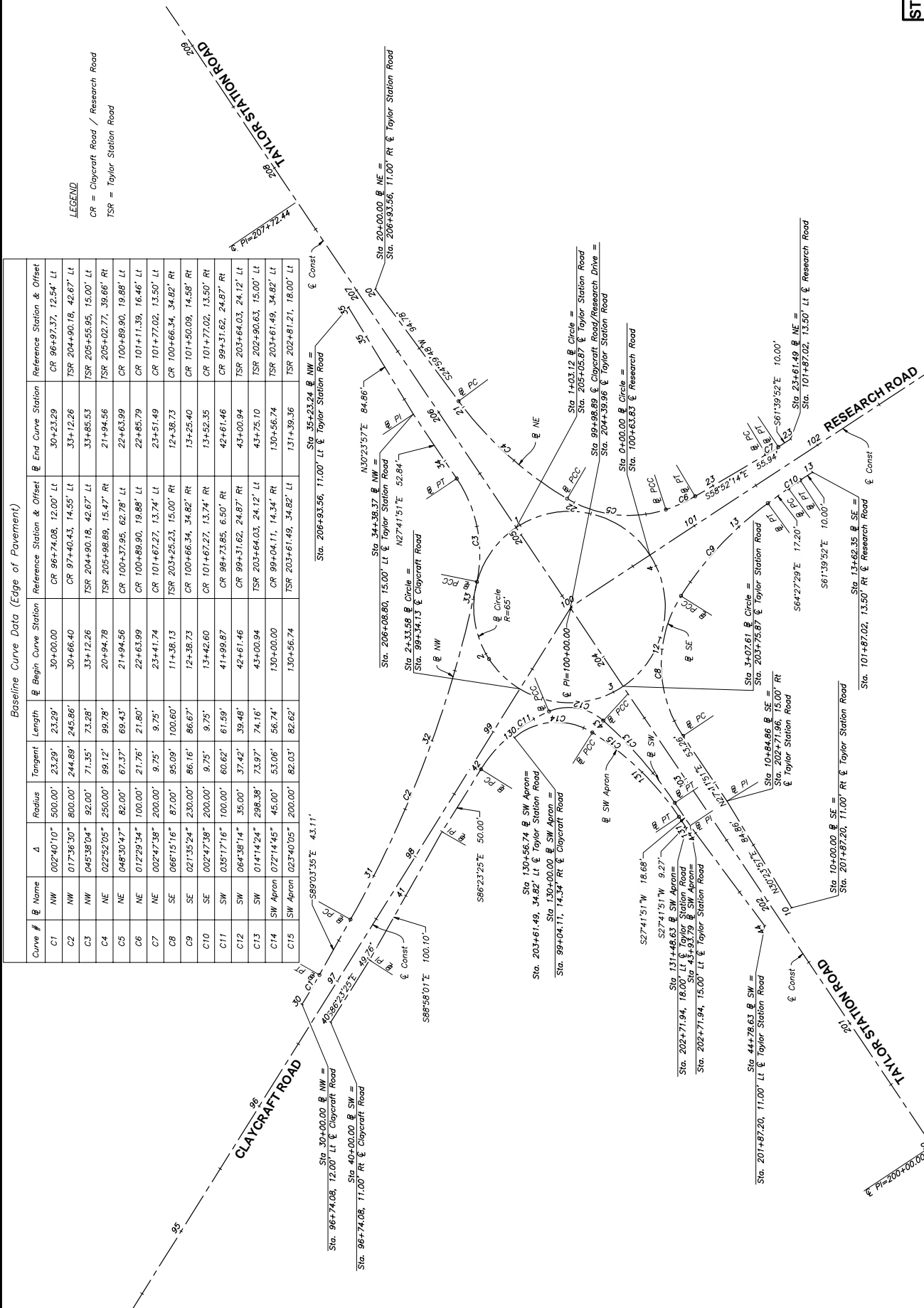
SEAL

ANDREW P. KIRK
REGISTERED PROFESSIONAL ENGINEER
E-61335

EXPIRATION DATE 12/31/2024

SIGNED: *Andrew P. Kirk*

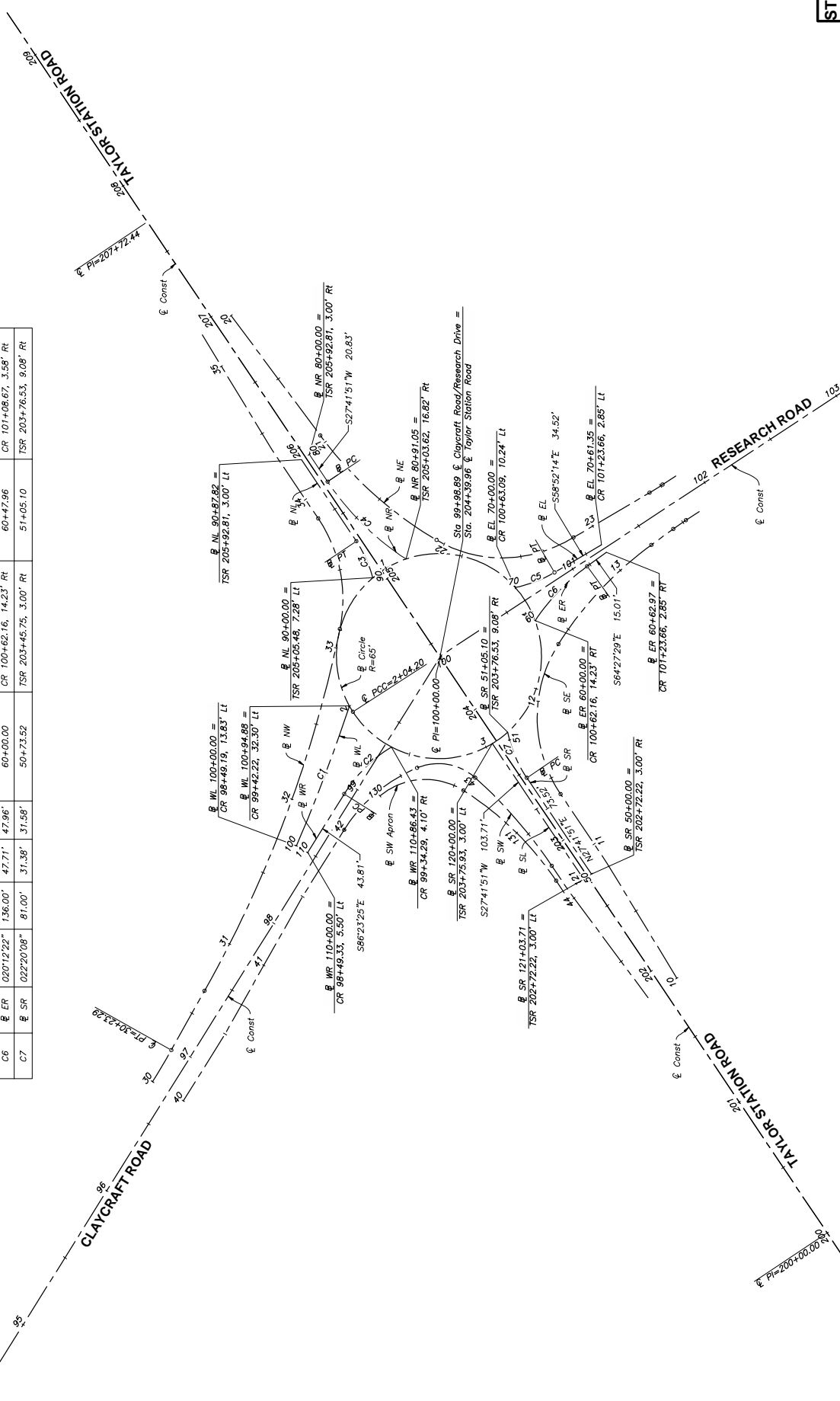
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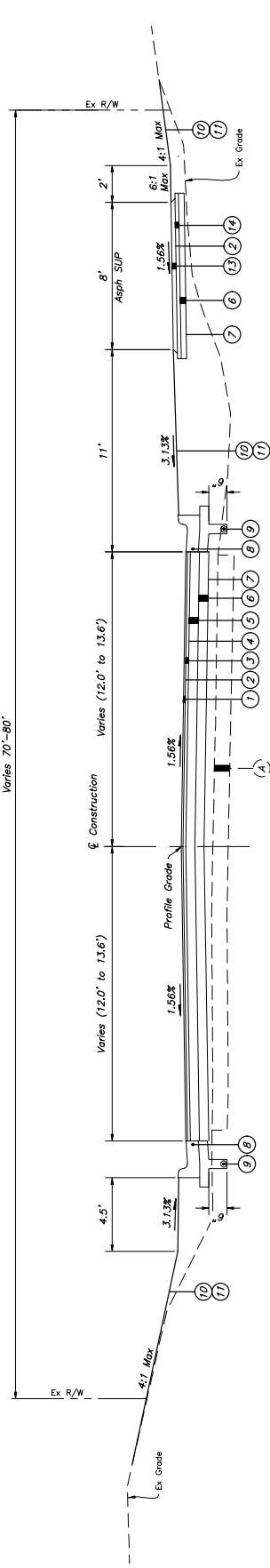
Baseline Curve Data (Edge of Pavement)									
Curve #	Name	Δ	Radius	Tangent	Length	Begin Curve Station	Reference Station & Offset	End Curve Station	Reference Station & Offset
C1	NW	002°40'10"	500.00'	23.29'	23.29'	30+00.00	CR 96+74.08, 12.00' Lt	30+23.29	CR 96+97.37, 12.54' Lt
C2	NW	017°36'50"	800.00'	244.88'	244.86'	30+66.40	CR 97+40.13, 14.55' Lt	33+12.26	TSR 204+40.13, 42.67' Lt
C3	NW	045°38'04"	92.00'	71.35'	73.28'	33+12.26	TSR 204+90.18, 12.26' Lt	33+85.53	TSR 205+55.95, 15.00' Lt
C4	NE	022°52'05"	2500.00'	99.12'	99.78'	20+94.78	TSR 205+98.69, 15.47' Rt	21+94.56	TSR 205+42.77, 38.66' Rt
C5	NE	045°30'47"	82.00'	67.37'	69.43'	21+94.56	CR 100+37.95, 62.78' Lt	22+63.99	CR 100+89.90, 19.88' Lt
C6	NE	017°29'34"	100.00'	21.76'	21.80'	22+63.99	CR 100+89.90, 19.88' Lt	22+85.79	CR 101+11.39, 16.46' Lt
C7	NE	002°47'38"	100.00'	9.75'	9.75'	23+41.74	CR 101+67.02, 13.50' Rt	23+51.49	CR 101+77.02, 13.50' Rt
C8	SE	066°15'16"	87.00'	98.09'	100.60'	11+38.13	TSR 203+25.23, 15.00' Rt	12+38.73	CR 100+66.34, 34.82' Rt
C9	SE	021°35'24"	230.00'	86.16'	86.67'	12+38.73	CR 100+66.34, 34.82' Rt	13+25.40	CR 101+50.09, 14.58' Rt
C10	SE	002°47'38"	200.00'	9.75'	9.75'	13+42.60	CR 101+67.02, 13.74' Rt	13+52.35	CR 101+77.02, 13.50' Rt
C11	SW	035°17'16"	100.00'	60.62'	61.59'	41+99.87	CR 98+73.85, 6.50' Rt	42+61.46	CR 99+31.62, 24.87' Rt
C12	SW	064°38'14"	35.00'	37.42'	39.48'	42+61.46	CR 99+31.62, 24.87' Rt	43+00.94	TSR 203+64.03, 24.12' Lt
C13	SW	011°41'24"	298.38'	73.97'	74.16'	43+00.94	TSR 203+64.03, 24.12' Lt	43+75.10	TSR 202+90.63, 15.00' Lt
C14	SW Apron	027°14'45"	45.00'	53.06'	56.74'	130+00.00	CR 99+04.11, 14.34' Rt	130+56.74	TSR 203+61.49, 34.82' Lt
C15	SW Apron	032°40'05"	200.00'	82.03'	82.62'	130+56.74	TSR 203+61.49, 34.82' Lt	131+39.36	TSR 202+81.21, 18.00' Lt

Baseline Curve Data (Edge of Pavement)									
Curve #	Name	Δ	Radius	Tangent	Length	Begin Curve Station	Reference Station & Offset	End Curve Station	Reference Station & Offset
C1	WL	004°56'14"	1101.00'	94.85'	94.88'	100+00.00	CR 98+49.32, 13.83' Lt	100+94.88	CR 99+42.22, 32.30' Lt
C2	WR	026°15'22"	93.00'	42.25'	42.62'	110+43.81	CR 98+49.32, 4.28' Lt	100+86.43	CR 99+34.29, 4.10' Rt
C3	WL	019°23'35"	75.50'	25.43'	25.55'	90+00.00	TSR 205+05.48, 7.28' Lt	90+26.55	TSR 203+30.55, 3.00' Lt
C4	WR	022°55'12"	176.00'	69.75'	70.22'	80+20.83	TSR 205+71.99, 3.00' Rt	80+91.05	TSR 205+03.62, 16.82' Rt
C5	EL	018°58'25"	81.00'	26.70'	26.82'	70+00.00	CR 100+63.09, 10.24' Lt	70+26.82	CR 100+89.18, 4.53' Lt
C6	WR	022°12'22"	136.00'	47.71'	47.96'	60+00.00	CR 100+62.16, 14.23' Rt	60+47.96	CR 101+08.67, 3.58' Rt
C7	SR	020°12'08"	81.00'	31.38'	31.58'	50+73.52	TSR 203+45.75, 3.00' Rt	51+05.10	TSR 203+76.53, 9.08' Rt

LEGEND
CR = Claycraft Road / Research Road
TSR = Taylor Station Road

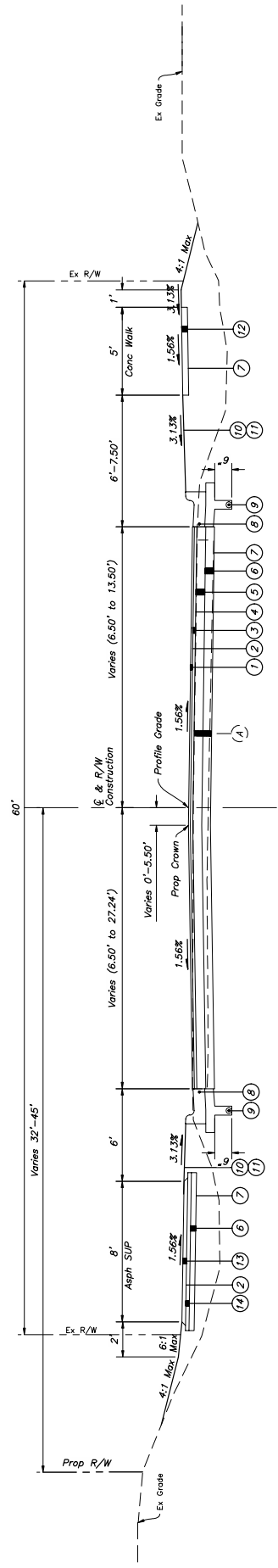


Varies 70'-80'



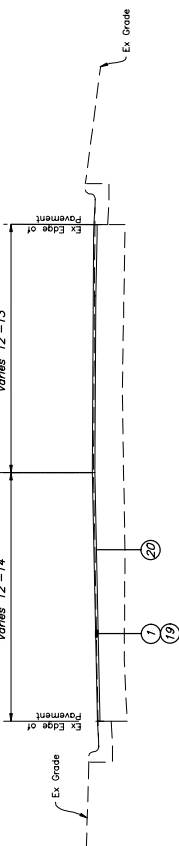
TYPICAL 2 - TAYLOR STATION ROAD

Sta. 201+77.20 to Sta. 202+71.94
Sta. 202+71.94 to Sta. 203+92.81
Sta. 203+92.81 to Sta. 207+03.37



TYPICAL 1 - CLAYCRAFT ROAD / RESEARCH ROAD

Sta. 98+64.37 to Sta. 98+69.33
Sta. 98+69.33 to Sta. 101+23.32
Sta. 101+23.32 to Sta. 101+87.02



TYPICAL 3 - PAVEMENT RESURFACING

Claycraft Road: Sta. 96+03.36 to Sta. 96+64.53
Research Road: Sta. 101+87.02 to Sta. 102+02.61
Taylor Station Road: Sta. 200+66.00 to Sta. 201+77.20
Sta. 207+03.37 to Sta. 207+70.44

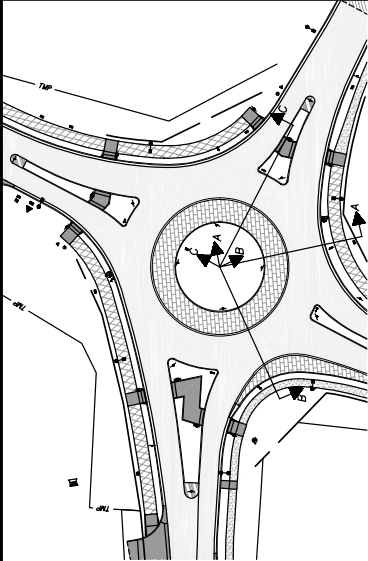
LEGEND

- 1 Item 441 - Asphalt Concrete Surface Course, Type 1 (448), PC70-22M (T=1.50')
- 2 Item 407 - Non-Tracking Tack Coat (0.055 Gal/SY)
- 3 Item 441 - Asphalt Concrete Intermediate Course, Type 2 (448), PC64-22 (T=1.25')
- 4 Item 407 - Non-Tracking Tack Coat, Type SBR Asphalt Emulsion (702.13)(0.08 Gal/SY)
- 5 Item 305 - Concrete Base (T=9')
- 6 Item 304 - Aggregate Base (T=6')
- 7 Item 204 - Subgrade Compaction
- 8 Item 609 - Combination Curb & Gutter, Type Special 8" (Std Dwg 2020)
- 9 Item 605 - 4" Pipe Underdrains with #8 or #57 Aggregate
- 10 Item 659 - Seeding and Mulching, Class 1
- 11 Item 659 - Topsoil (T=3')
- 12 Item 608 - Concrete Walk (T=5')
- 13 Item 1530 - Asphalt Concrete Surface Course, Type 1, (448), PC64-22 (T=1.25')
- 14 Item 1530 - Asphalt Concrete Intermediate Course, Type 2, (448), (T=1.75')
- 15 Item 452 - Non-Reinforced Concrete Pavement (T=8')
- 16 Item 609 - Curb, Straight 18"
- 17 Item 609 - Curb, Type 3-B, As Per Plan
- 18 Item Special - Brick Median Pavers
- 19 Item 254 - Pavement Planing, Asphalt Concrete (T=1.50')
- 20 Item 407 - Non-Tracking-Tack Coat (0.085 Gal/SY)
- 21 Item Special - Truck Apron Pavement, Brick Pavers on Concrete Base
- 22 Item 609 - Concrete Traffic Island
- A Ex Asphalt Pavement Varies 7" to 12"

DETAIL: CONCRETE COMMERCIAL DRIVE

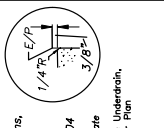
Applies to all Concrete Aprons

- A See Cross Sections for additional information.
- B See Grading Details for additional information



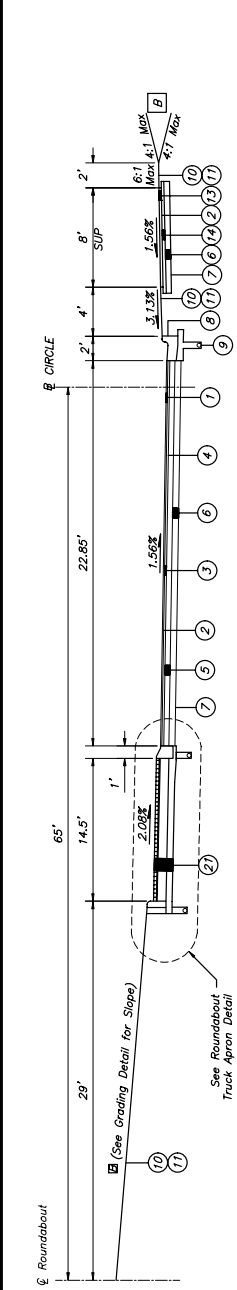
LEGEND

- 1 Item 441 - Asphalt Concrete Surface Course, Type 1 (448), PG20-22M (T=1.90)
- 2 Item 407 - Non-Tracking Tack Coat (0.055 Gal/SY)
- 3 Item 441 - Asphalt Concrete Intermediate Course, Type 2 (448), PG24-22 (T=1.75)
- 4 Item 407 - Non-Tracking Tack Coat, Type SBR Asphalt Emulsion (0.0213(0.08 Gal/SY)
- 5 Item 305 - Concrete Base (T=6")
- 6 Item 304 - Aggregate Base (T=6")
- 7 Item 204 - Subgrade Compaction
- 8 Item 609 - Combined Curb & Gutter, Type Special 8" (Std Dwg 2020)
- 9 Item 605 - 4" Pipe Underdrains with #8 or #57 Aggregate
- 10 Item 609 - Seeding and Mulching, Class 1
- 11 Item 659 - Topsoil (T=3")
- 12 Item 608 - Concrete Walk (T=5")
- 13 Item 1530 - Asphalt Concrete Surface Course, Type 1, (448), PG20-22M (T=1.90)
- 14 Item 1530 - Asphalt Concrete Intermediate Course, Type 2, (448)
- 15 Item 452 - Non-Reinforced Concrete Pavement (T=8")
- 16 Item 609 - Curb, Straight 18"
- 17 Item 609 - Curb, Type 3-B, As Per Plan
- 18 Item Special - Brick Median Pavers
- 19 Item 254 - Pavement Planing, Asphalt Concrete (T=1.50")
- 20 Item 407 - Non Tracking-Tack Coat (0.085 Gal/SY)
- 21 Item Special - Truck Apron Pavers, Brick Pavers on Concrete Base
- 22 Item 609 - Concrete Traffic Island
- (A) Ex Asphalt Pavement Varies 7" to 12"

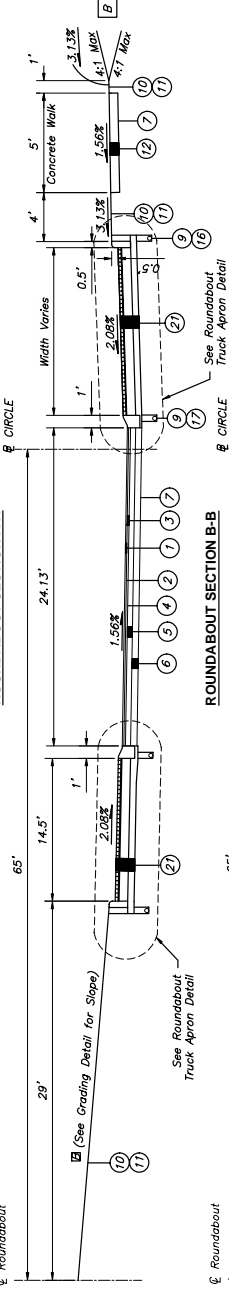


COMBINATION CURB & GUTTER, TYPE SPECIAL 8"

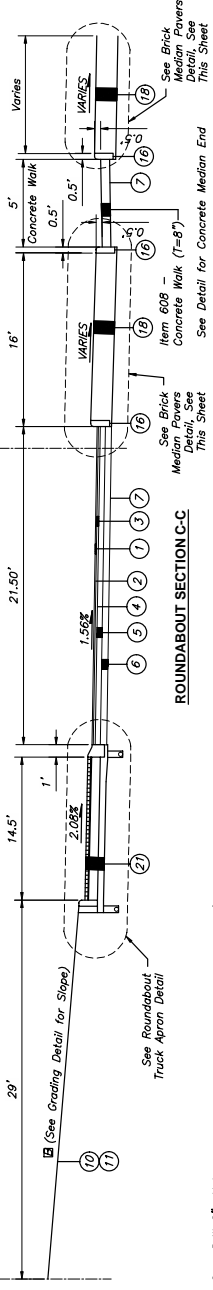
- A See Cross Sections for additional information.
- B See Grading Details for additional information



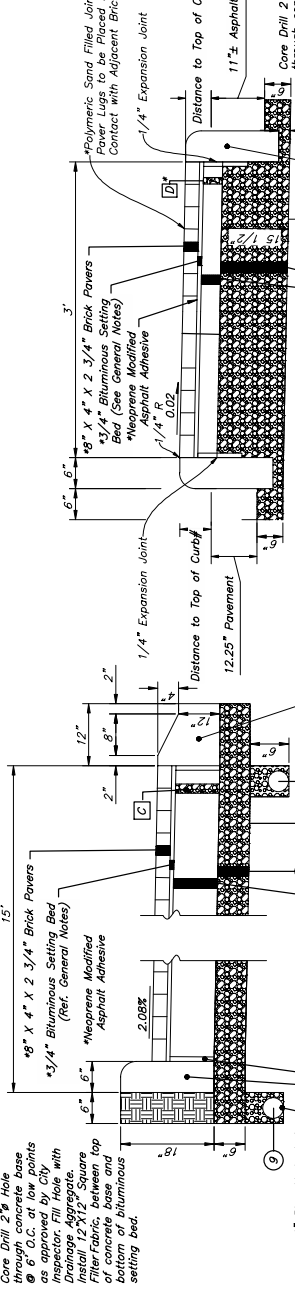
ROUNDABOUT SECTION A-A



ROUNDABOUT SECTION B-B

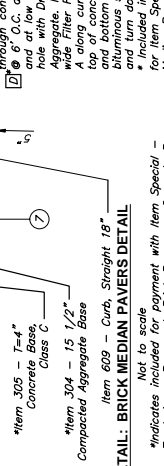


ROUNDABOUT SECTION C-C



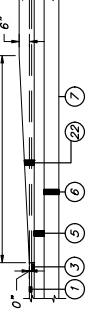
DETAIL: ROUNDABOUT TRUCK APRON DETAIL

- 1 Item 609 - Curb, Straight 18"
- 2 Item 305 - Tru-4" Concrete Base, Class C
- 3 Item 304 - 15 1/2" Compacted Aggregate Base
- 4 Item 609 - Concrete Traffic Island
- 5 Item 609 - Concrete Traffic Island
- 6 Item 609 - Concrete Traffic Island
- 7 Item 609 - Concrete Traffic Island
- 8 Item 609 - Concrete Traffic Island
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- 19 Item 609 - Concrete Traffic Island
- 20 Item 609 - Concrete Traffic Island
- 21 Item 609 - Concrete Traffic Island
- 22 Item 609 - Concrete Traffic Island



DETAIL: BRICK MEDIAN PAVERS DETAIL

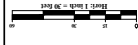
- A See Cross Sections for additional information.
- B See Grading Details for additional information














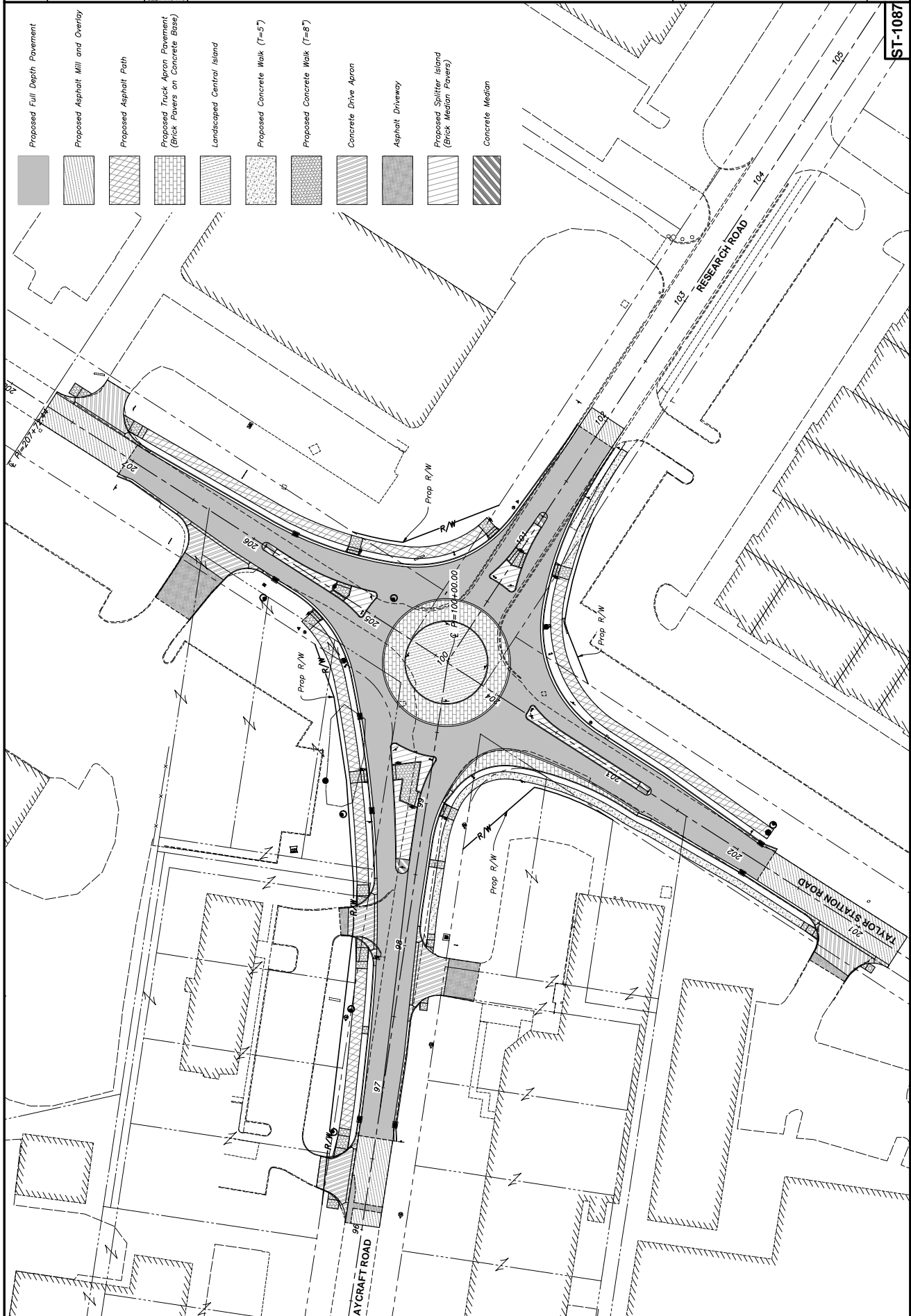
DETAIL: CONCRETE MEDIAN END

MATERIAL PLACEMENT DETAIL

CALCULATED	APK
CHECKED	MRB



	Proposed Full Depth Pavement
	Proposed Asphalt Mill and Overlay
	Proposed Asphalt Path
	Proposed Truck Apron Pavement (Brick Pavers on Concrete Base)
	Landscaped Central Island
	Proposed Concrete Walk (T=5'')
	Proposed Concrete Walk (T=6'')
	Concrete Drive Apron
	Asphalt Driveway
	Proposed Splitter Island (Brick Median Pavers)
	Concrete Median



CITY OF GAHANNA, GENERAL NOTES	ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, RESTORATION, OR ANY OTHER ACTION CONCERNED WITH THE CITY'S ELECTRICAL OR STREET LIGHTING SYSTEMS IN THE CONSTRUCTION AREA IS TO BE PERFORMED SOLELY BY THE CITY AT THE EXPENSE OF THE PROJECT. THE CITY WILL BE NOTIFIED PRIOR TO CONSTRUCTION TO ALLOW FOR ENGINEERING AND RELOCATION OF FACILITIES.		MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT ALEKSANDER DESIGNATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER AND THE DIVISION OF THE CITY OF GAHANNA.		WORK LIMITS: THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC SIGNALS. PROVIDE ALL NECESSARY TRAFFIC SIGNALS AND TRAFFIC SIGNALS TO BE USED IN THESE ZONES. PROVIDE TRAFFIC SIGNALS TO BE USED IN THESE ZONES. PROVIDE TRAFFIC SIGNALS TO BE USED IN THESE ZONES.	
	IF ANY ELECTRICAL FACILITY BELONGING TO THE CITY IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, THE CITY SHALL MAKE ALL NECESSARY REPAIRS TO THE FACILITY AT THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE CITY.		FIRE HYDRANTS SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE AS SHOWN ON THE CITY OF COLUMBUS L-6409 AND L-6637 STANDARD CONSTRUCTION DRAWINGS. FIRE HYDRANTS SHALL BE LOCATED AT LEAST 10 FEET FROM ANY CURB OR SIDEWALK. FIRE HYDRANTS SHALL BE LOCATED AT LEAST 10 FEET FROM ANY CURB OR SIDEWALK. FIRE HYDRANTS SHALL BE LOCATED AT LEAST 10 FEET FROM ANY CURB OR SIDEWALK.		SAFETY FACILITIES: THE CONTRACTOR SHALL ENSURE AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR THE WORKMEN AND INSPECTORS FOR THE DURATION OF THE WORK. COSTS FOR THESE FACILITIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ROADWAY ITEMS.	
UTILITIES:	THE CONTRACTOR SHALL GIVE NOTICE TO THE OHIO UTILITIES PROTECTION SERVICE (PHONE 1-800-342-2764) AND TO THE OWNERS OF THE UTILITY FACILITIES SHOWN ON THE PLAN WHO ARE LOCATED WITHIN THE PROJECT AREA AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTEANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXERCISE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECTS ON THE PROPOSED PROJECT. THE CONTRACTOR SHALL GIVE NOTICE TO THE CITY AND OTHER UTILITY OWNERS PER THE GENERAL NOTES.		WHERE POTENTIAL GRADE CONFLICTS MUST OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR SHALL EXPOSE AND VERIFY THE DEPTH OF THE EXISTING UTILITY IN ADVANCE OF THE PROPOSED CONSTRUCTION.		CONTRACTOR QUANTITIES: THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK SHOWN, LABELED, OR LISTED AS "CONVENIENCE" OR REFERENCED BY PLAN NOTE TO BE USED AS DIRECTED BY THE OWNER. UNLESS AUTHORIZED BY THE ENGINEER, OR THE OWNER.	
	THE PRICE(S) QUOTED SHALL INCLUDE ALL ITEMS OF LABOR, MATERIALS, TOOLS, EQUIPMENT, INSURANCE AND OTHER COSTS NECESSARY TO COMPLETE THE WORK PURSUANT TO THE REQUIREMENTS OF THE CITY OF GAHANNA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF GAHANNA AND THE CITY OF COLUMBUS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF GAHANNA AND THE CITY OF COLUMBUS.		REMOVAL AND REPLACEMENT OF SOFT OR UNSUBSISTIBLE MATERIAL: AREAS REQUIRING OVER EXCAVATION OR UNDERCUT, AS DETERMINED BY THE ENGINEER, SHALL BE EXCAVATED TO THE REQUIRED DEPTH AND FILL WITH A MINIMUM OF 12" OF GRANULAR MATERIAL. EXCAVATED AND UNDERCUT AREAS ARE TO BE FILLED AS DIRECTED BY THE ENGINEER IN A CONTROLLED MANNER IN ACCORDANCE WITH OMS 26407 AND AS FOLLOWS.		THE FOLLOWING ESTIMATED CONTINGENCY QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SOFT OR UNSUBSISTIBLE MATERIALS AS DESCRIBED ABOVE. ITEM 204 - EXCAVATION OF SUBGRADE 620 CU. YD. ITEM 204 - GRANULAR MATERIAL, TYPE B 1640 CU. YD. ITEM 204 - GEOTEXTILE FABRIC, TYPE D 1640 CU. YD.	
CITS	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTEANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXERCISE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECTS ON THE PROPOSED PROJECT. THE CONTRACTOR SHALL GIVE NOTICE TO THE CITY AND OTHER UTILITY OWNERS PER THE GENERAL NOTES.		THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTEANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXERCISE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECTS ON THE PROPOSED PROJECT. THE CONTRACTOR SHALL GIVE NOTICE TO THE CITY AND OTHER UTILITY OWNERS PER THE GENERAL NOTES.		THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTEANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXERCISE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECTS ON THE PROPOSED PROJECT. THE CONTRACTOR SHALL GIVE NOTICE TO THE CITY AND OTHER UTILITY OWNERS PER THE GENERAL NOTES.	
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LAYING PATTERN SHALL BE RUNNING BOND WITH LONG EDGE OF PAVEMENT PARALLEL TO THE BACK OF CURB, FULL UNITS SHALL BE PLACED ALONG THE OUTSIDE CURB OF THE TRUCK APRON.

ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED FOR THE WORK LISTED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR:

ITEM SPECIAL – TRUCK APRON PAVEMENT, BRICK PAVERS ON CONCRETE BASE, SQ. YD.

ITEM SPECIAL – BRICK MEDIAN PAVERS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

ALL PAVEMENT CONSTRUCTION SHALL MEET OR EXCEED THE CITY OF COLUMBUS STANDARD SPECIFICATION 1524 ROADWAY PAVERS AND THE CITY OF COLUMBUS STANDARD SPECIFICATION DRAWING 2001. THE MANUFACTURER, STYLE AND COLOR OF PAVERS SHALL BE BELDEN, CITY OF COLUMBUS, 1524 ROADWAY PAVERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

LAYING PATTERN SHALL BE HERRINGBONE WITH LONG EDGE OF PAVEMENT ROUGHLY PARALLEL TO CENTERLINE OF THE ROAD.

ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED FOR THE WORK LISTED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR:

ITEM SPECIAL – BRICK MEDIAN PAVERS, SQ. YD.

ITEM SPECIAL – MANUFACTURED WATER QUALITY STRUCTURE, TYPE 1.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

THE SPECIFICATIONS FOR THE WATER QUALITY STRUCTURES SHALL CONFORM TO THE OHIO DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS FOR ITEM 695 EXCEPT, "THE DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS SHALL BE REPLACED WITH THE CITY OF COLUMBUS SECTION 885.04.

THE CONTRACTOR SHALL INCLUDE IN THE UNIT PRICE BID FOR MANUFACTURED WATER QUALITY STRUCTURE ANY LABOR, MATERIALS, EQUIPMENT, OR INCIDENTALS ASSOCIATED WITH THE INSTALLATION OF ANY COMPONENT OF THE WATER QUALITY STRUCTURE INCLUDING ANY TEMPORARY SHORING OF ADJACENT UTILITIES AND PROTECTION OF ADJACENT UTILITIES.

THE CONTRACTOR SHALL INSPECT AND MAINTAIN THE WATER QUALITY STRUCTURE UNIT AT LEAST QUARTERLY AND WORK OBTAIN AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL CLEAN THE WATER QUALITY SYSTEM PRIOR TO ACCEPTANCE BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN THE WATER QUALITY SYSTEM PRIOR TO ACCEPTANCE BY THE ENGINEER.

SEEDING & MULCHING (WEEDING AND WATERING THROUGH ACCEPTANCE MINIMUM SEEDING AREAS.

ITEM 659 TOPSOIL 280 CU. YD.
ITEM 660 SEEDING AND MULCHING, CLASS 1 3310 SQ. YD.
ITEM 661 MULCHING, CLASS 1 3310 SQ. YD.
ITEM 662 WATER 18 M GA.

*CONTINGENCY TO BE USED AS DIRECTED BY THE ENGINEER.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

ITEM 201 – CLEARING AND GRUBBING.

ALL TREES AND STUMPS WITHIN THE PROJECT CONSTRUCTION LIMITS ARE TO BE REMOVED IN ACCORDANCE WITH ITEM 201 UNLESS OTHERWISE NOTED ON THE TREE PRESERVATION PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

INDIVIDUAL TREES AND STUMPS HAVE NOT BEEN MARKED ON THE PLANS FOR REMOVAL UNLESS SPECIFICALLY DESIGNATED AS "DO NOT DISTURB" IN THE PLANS. REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID ITEM FOR ITEM 201 CLEARING AND GRUBBING.

ITEM 204 – PRODE ROLLING.

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS WHERE PRODE ROLLING IS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

ITEM 204 – PRODE ROLLING 4 HOUR.

IN ADDITION TO THE REQUIREMENTS OF ITEM 609, THE CONTRACTOR SHALL PROVIDE CURB PER THE DIMENSIONS AND DETAILS PROVIDED ON THE PLAN.

ALL LABOR AND MATERIALS NEEDED TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE PAID FOR UNDER ITEM 609 – CURB, TYPE 3-B, AS PER PLAN.

ITEM 616 – DUST CONTROL – AS PER PLAN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

ITEM 623 – RIGHT OF WAY MONUMENTS 10 EACH.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

ITEM SPECIAL – MALEBOX FOUND AND RESET.

THIS WORK SHALL CONSIST OF REMOVING EXISTING MALEBOX AND SUPPORTS AND FURNISHING AND ERECTING MALEBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE (WHICH MAY BE PROVIDED BY THE OWNER) TO BE INSTALLED AT THE LOCATION OF THE MALEBOX. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

MATERIALS:

THE MALEBOX SHALL BE MINIMUM 4" x 4" SQUARE OR 4-1/2" DIAMETER ROUND AND CONFORM TO SECTION 710.14. STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2" I.D., AND CONFORM TO ASTM A 181.

LABELING:

PLATES, SCREWS, BOLTS, ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

SETTING POSTS:

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF SECTION 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

MOUNTING BOXES:

SUPPORTS HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE INSTALLATION, AND NO MORE.

THE MALEBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW MALEBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE (WHICH MAY BE PROVIDED BY THE OWNER) TO BE INSTALLED AT THE LOCATION OF THE MALEBOX. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON ITS PART, AS JUDGED AND DIRECTED BY THE CITY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TUNING OF THE MOVEMENT OF ANY MALEBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE PAID FOR AS PROVIDED IN THE GENERAL SUMMARY. THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

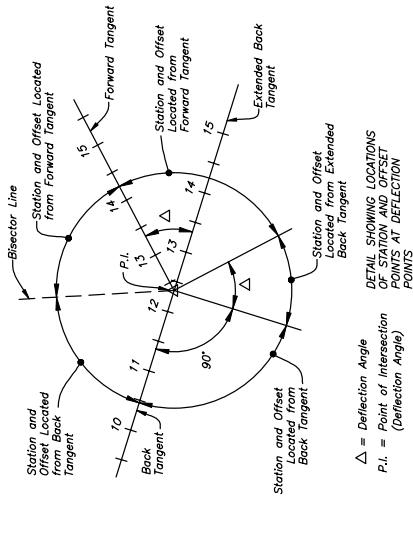
ITEM SPECIAL – TRUCK APRON PAVEMENT, BRICK PAVERS ON CONCRETE BASE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

ALL PAVEMENT CONSTRUCTION SHALL MEET OR EXCEED THE CITY OF COLUMBUS SUPPLEMENTAL SPECIFICATION 1524 ROADWAY PAVERS. THE MANUFACTURER, STYLE AND COLOR OF PAVERS SHALL BE BELDEN, CITY OF COLUMBUS, 1524 ROADWAY PAVERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES OF THE PROJECT.

THE MANUFACTURER'S AVAILABLE RANGE SIZE SHALL BE 4" W X 8" L X 2 3/4" THICK. CONTACT PAVEMENT GRIND AT HAMILTON PARKER, 614-207-7984.

ITEMNO	REMARKS QUANTITY	UNIT	DESCRIPTION	SEE SHEET
Roadway				
201	1	L. Sum	Clearing and Grading	
202	11.25	R	Pipe Removed, 24" and Under	
203	5	EaCh	Curb Rein Removed	9
204	3	EaCh	Water Valve Removed	
205	3	R	Gravel and Gravel Base on Sigs Removed	
206	70	R	Gravel and Gravel Base on Sigs Removed	
207	325	SqYd	Walk Removed	
208	390	R	Curb and Gutter Removed	
209	250	R	Curb Removed	
210	250	R	Curb Removed	
211	1	EaCh	Removal Man. Horizontal/Vertical Removed	
212	400Yd	Cu Yd	Excavation	
213	985	Sq Yd	Reinforcement	9
214	7,300	Sq Yd	Subgrade Compaction	
215	204	Sq Yd	Underdrain and Disposal of Unusable Materials	8
216	620	Cu Yd	Granular Material, Type B	
217	1,840	Sq Yd	Granular Material, Type B	
218	2,300	Sq Yd	Granular Material, Type B	
219	2,300	Sq Yd	Granular Material, Type B	
220	22	EaCh	Curb Banks, Cont'd to Fish	
221	22	EaCh	Curb Banks, Cont'd to Fish	
222	551	Sq Yd	Gravel and Gravel Base on Sigs Removed	
223	10	EaCh	Height of Many Monuments	9
224	1	EaCh	Manhole Removed and Rebuilt	9
Pavement				
225	254	650	Pavement Paving, Asphalt Concrete (AC = 1.5)	
226	259	80	Driveway Paving/Replacement, Type BA	
227	304	900	Aggregate Base (A=5)	
228	304	900	Aggregate Base (A=5)	
229	340	600	Non-Traveling Neck Coat, (for Surface Course) (0.055 Gal/SqYd (for full depth and S&P	
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DRIVEWAYS

protections of completed asphalt courses. It shall be the responsibility of the Contractor to coordinate construction activities with the Engineer and with the owners of abutting properties in advance of any operations which affect access. Access to any business shall not be prevented during peak hours.

Prior to any driveway closures for excavation, the Contractor shall coordinate with the private property owners. The Contractor shall submit in writing a schedule to the property owners affected by the work. A copy of the letter shall be provided to the City.

The Contractor shall be responsible for the protection and safe movement of pedestrians through, around, or detoured away from the construction site. Traffic control for pedestrian movements shall be as per figures TA-28 and TA-29 of Part VI of the Ohio Manual of Uniform Traffic Control Devices, and as detailed within.

any costs associated with maintaining pedestrian traffic shall be incidental to Item 614.

LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE

not be permitted at project cost. LEOs should not be used where the OMIUCD intends that flaggers be used.

the appropriate law enforcement agency) shall be provided for the following traffic control tasks:

During the entire advance preparation and closure sequence where complete blockage of traffic is required.

In addition to the requirements of CEC CMS 614 and the OMUTCD, a uniformed LEO with an official patrol car (car with top-mounted emergency flashing lights and complete markings of

tasks: For lane closures: during initial set-up periods, tear down periods, substantial shifts of a closure point or when new lane closure arrangements are initiated for long-term lane

The LEOs work at the direction of the Contractor. The Contractor is responsible for securing the work area and for the safety of the work zone. The Contractor shall be responsible for securing the work area and for the safety of the work zone. The Contractor shall be responsible for securing the work area and for the safety of the work zone.

plans with respect to duties of the LEOs. The Engineer shall have final control over the LEOs duties and placement, and will resolve any issues that may arise between the two parties.

LEOs (with patrol car) required by the traffic maintenance tasks above shall be paid for under

The hours paid shall include any minimum show-up time required by the law enforcement

Any additional costs (administrative or otherwise) incurred by the Contractor to obtain the

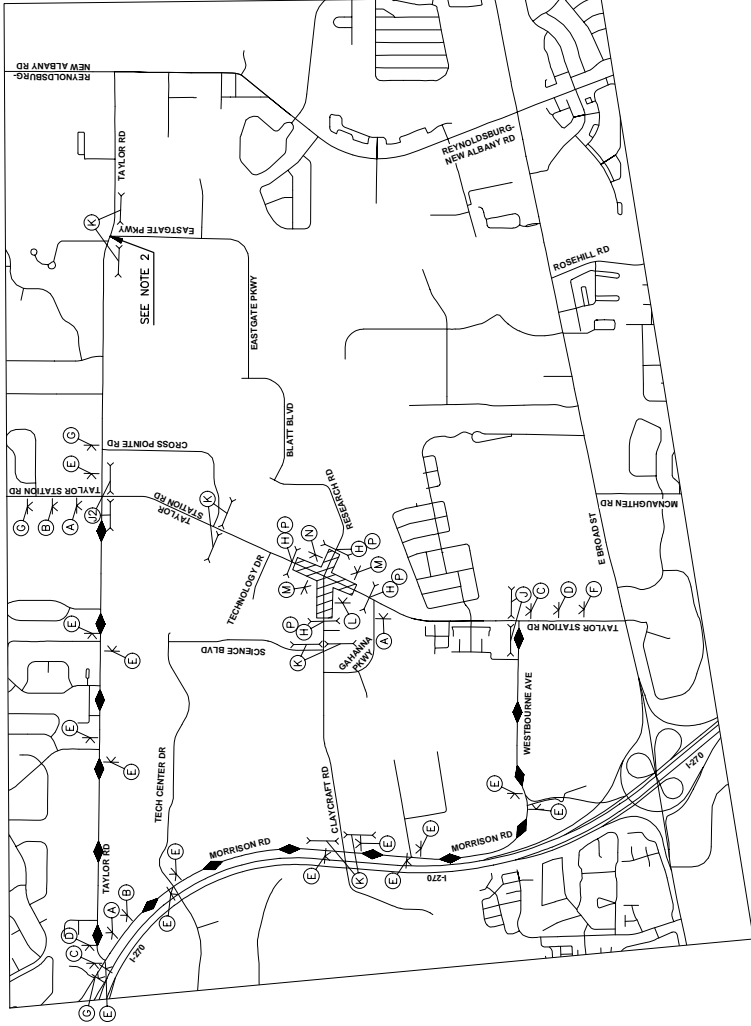
It shall be the Contractor's responsibility to provide maintenance of traffic plans for any

within. Cost for furnishing these plans and the subsequent maintenance of traffic set ups will be considered incidental to Item 614 Maintaining Traffic As Per Plan.

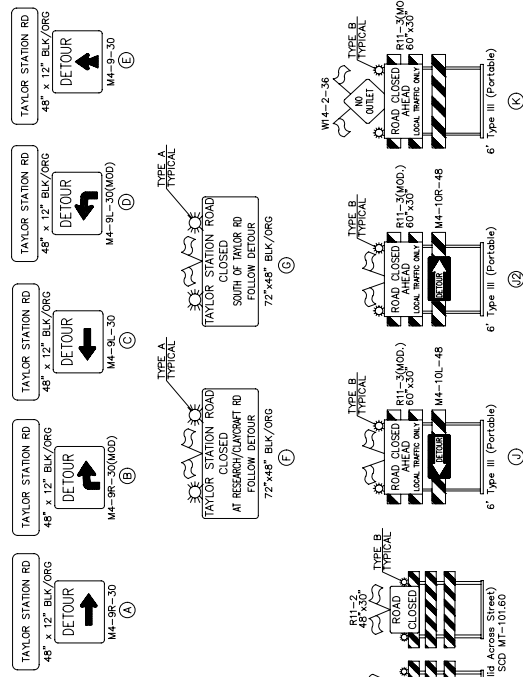
PAYMENT Payment for all maintenance of traffic items, including the furnishing, installation and maintenance of but not limited to: detour signs, alternate route signage, flashing arrows panels,

enforcement officer with patrol car, portable changeable message signs, construction fencing, temporary pavement markings, traffic compacted surface, temporary pavement, materials and labor for maintaining access to driveways, property owner notification/coordination, and development of the operations schedule shall be at the lump sum price bid for Item 614. Maintaining Traffic, As per plan, which shall include all labor, material, equipment, and incidentals to complete the work, as detailed in the plans. Unless separately itemized in the

MAINTENANCE OF TRAFFIC ESTIMATE OF QUANTITIES		
Item No.	Estimated Quantity	Item Description
614	1	Maintaining Traffic, As Per Plan



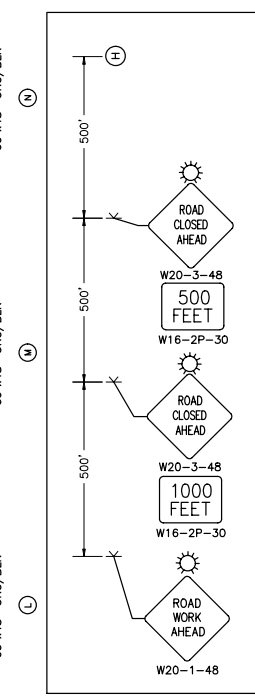
SIGN LEGEND



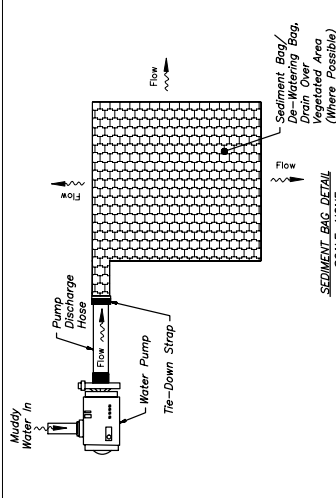
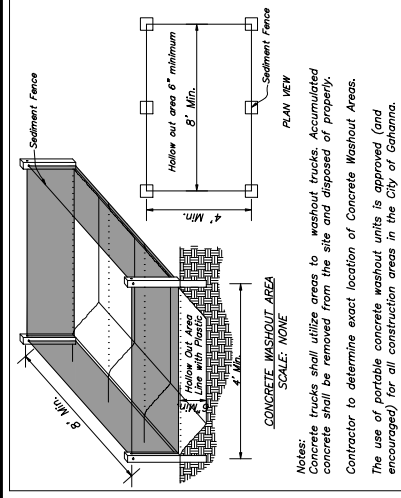
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100			

Claycraft Rd Taylor Station Rd Research Rd

CLOSING DATE	CLOSING DATE	CLOSING DATE
12/31/2023	12/31/2023	12/31/2023

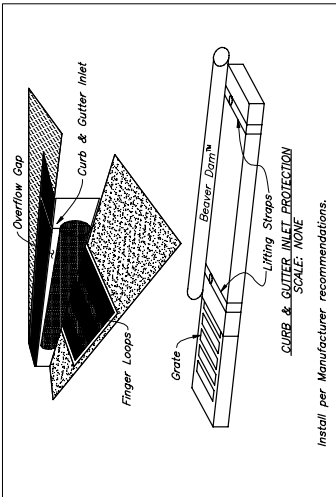
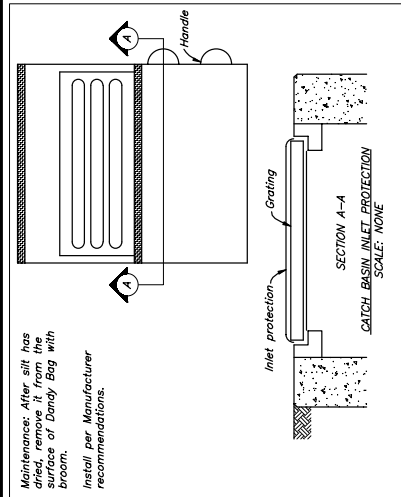


EROSION & SEDIMENT CONTROL PRACTICES SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF GAHANNA. IT'S AUTHORIZED AGENTS.		This plan must be posted on site. A copy of the SWPPP plan and the Erosion & Sediment Control Permit (with the site-specific NOI number) shall be kept on site at all times.		The following estimated quantities are included for use by the Contractor to control sedimentation and erosion:	
EROSION & SEDIMENT CONTROL NARRATIVE		EROSION & SEDIMENT CONTROL ADDITIONAL NOTES		Item 207* - Construction Seeding and Mulching 1,700 Sq. Yd.	
PLAN DESIGNER:		Prior to Construction Operations in a particular area, all sedimentation and erosion control features shall be in place. Field adjustments with respect to dimensions and dimensions may be made by the City Engineer or their designee.		Item 207 - Inlet Protection 17 Each	
OWNER:		The Contractor shall place inlet and channel protection for erosion control immediately after construction of the inlets or channels which are not tributary to a sediment basin or dam.		Item 207 - Rock Ditch Checks 3 Each	
SITE CONTACT:		It may become necessary to remove portions of the barrier during construction to facilitate the grading operations in certain areas. However, the barrier shall be in place in the evening or during any inclement weather.		Item 207 - Perimeter Filter Fabric Fence 930 Ln. Ft.	
CONTRACTOR RESPONSIBILITY: Details have been provided on the plans in an attempt to help the contractor provide erosion and sedimentation control details. It is the contractor's responsibility to provide additional details and alternate details may be found in the O.D.N.R. Manual "Rainwater and Land Development". The Contractor shall be solely responsible for providing necessary and adequate measures for proper control of erosion and sediment runoff from the site along with proper maintenance and inspection of all erosion and sediment control practices. The Contractor shall be responsible for all associated with Construction Activity.		MAINTENANCE: It is the Contractor's responsibility to maintain the sediment control features used on this project. The site shall be inspected at a minimum of every seven days and within 24 hours of a one-half inch (0.57) or greater rain event. Records of these inspections shall be kept and made available to jurisdictional agencies if requested. Any sediment or erosion control feature that is damaged or destroyed shall be repaired and replaced immediately. Should a structure or feature become damaged, the Contractor shall repair or replace at no additional cost to the City. Not all details shown on this sheet may be required for this project.		Item Special - Concrete Washout Area 1 Each	
PROJECT		SCHEDULE: The Contractor shall provide a schedule of operations to the City Engineer. The schedule shall be approved by the City Engineer and shall be in accordance with this schedule. The recommended construction sequence is as follows:		Item Special - Tree Protection Fence 180 Ln. Ft.	
EXISTING SITE		1. Where indicated on the Plans, install inlet controls on existing structures and establish concrete washout area.		#Contractor to determine location and coordinate approval with the City.	
AREAS OF DISTURBANCE:		2. Install perimeter filter fabric fence and the tree protection fence where shown.		*As directed by the City Engineer, or their designee.	
RECEIVING STREAM:		3. Construct water main relocation.			
ADJACENT AREAS:		4. Construct storm sewer.			
CRITICAL AREAS:		5. Install inlet controls on proposed structures.			
EROSION AND SEDIMENT MEASURES:		6. Construct pavement, curbs, shared-use paths, and sidewalks.			
PERMANENT STABILIZATION:		7. Finish grading.			
MAINTENANCE:		8. Construct rock check dams in ditches.			
EROSION & SEDIMENT CONTROL		9. Perform final seeding and install landscaping where indicated.			
Erosion and sediment control measures are required as part of this project. Erosion and sediment control measures specific to this site may be found in the City of Gahanna Code Chapter 1195. All land-disturbing activities shall be subject to inspection and site investigation by the City of Gahanna, its authorized agents, and/or the Ohio EPA.		10. Remove temporary sediment controls placed by this contract.			
All Erosion Sedimentation Control Practices are subject to field modifications at the discretion of the City of Gahanna, its authorized agents, and/or the Ohio EPA.		Direct discharge of sediment laden water to the City's sewer system or a receiving stream is a violation of Ohio EPA and City of Gahanna regulations. The contractor will be held liable for the violation and subsequent fines.			
		The Contractor shall be responsible to ensure that off-site tracking of sediment by vehicles and equipment is minimized. All such off-site stabilized construction entrances are a part of that responsibility.			
		Street cleaning (on an as-needed basis) is required through the duration of this construction project. This includes sweeping, power cleaning and (if necessary) manual removal of dirt or mud in the street gutters.			
		The Contractor shall be responsible to ensure that no solid or liquid waste is discharged into stormwater runoff. Sediment-laden water shall be filtered through the use of sediment filtering fences or sedimentation basins prior to discharge to surface waters. Concrete trucks will not be allowed to wash on streets or into natural or man-made channels or swales leading to waterways. Concrete truck wash water and surplus concrete shall be confined to areas approved by the City Engineer or their designee after solidifying, these waste materials shall be removed from the site.			
		The Contractor shall be responsible to have this plan, including this narrative, immediately available or posted on the site.			
		The Contractor shall be responsible to delineate, on this plan, all erosion and sedimentation control work actually performed; and to amend this plan as required as a result of this work.			
		The Contractor shall be responsible to perform the required maintenance procedures and document them as required by the General Permit and this plan.			



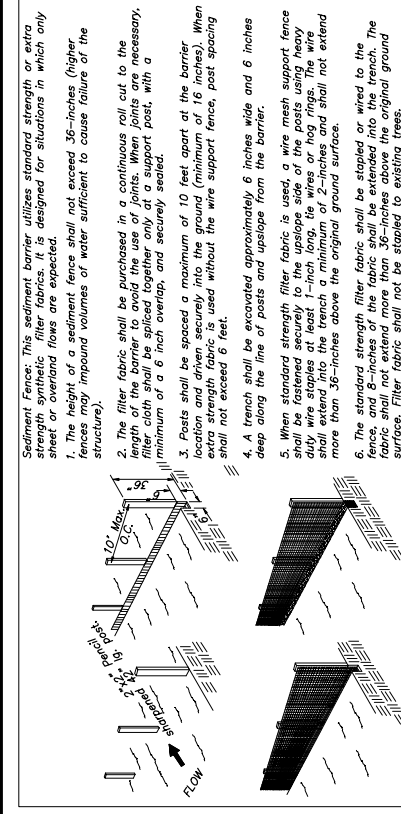
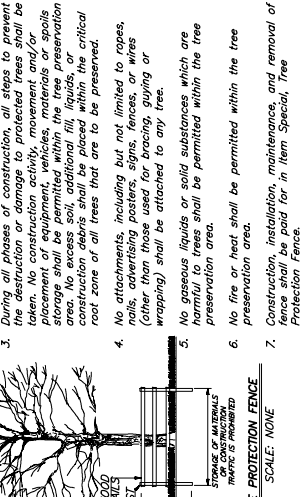
All inlets receiving flow from runoff, pumping activities, or other direct discharges shall be fitted with an inlet protection device that is properly sized and secured to reduce the discharge of sediment into the storm sewer system and receiving stream. Inlet protection is required on all inlets receiving discharge regardless of whether or not the inlet is tributary to any downstream erosion and sediment controls.

Discharge hoses during pumping activities shall be fitted with sediment bags that are properly sized per manufacturer's recommendations regardless of what other sediment controls are in place further downstream. Sediment bags must be properly secured to the discharge hose and placed over vegetated areas, where feasible.



ITEM SPECIAL - TREE PROTECTION FENCE

- The Contractor shall be responsible for the fencing where shown on plan. Fenced areas shall be considered "Tree Protection Areas".
- Fencing shall remain in place and be secured in an upright position during the entire construction period to prevent the impingement of construction vehicles, materials, spoils, and equipment into or upon the tree preservation area.
- During all phases of construction, all steps to prevent the destruction or damage to protected trees shall be taken. No construction activity, movement and/or placement of equipment, vehicles, materials or spoils shall be permitted within the tree preservation area. No excess soil, additional fill, liquids, or construction debris shall be placed within the critical root zone of all trees that are to be preserved.
- No attachments, including but not limited to ropes, nails, advertising posters, signs, fences, or wires (other than those used for bracing, guying or wrapping) shall be attached to any tree.
- No gaseous liquids or solid substances which are harmful to trees shall be permitted within the tree preservation area.
- No fire or heat shall be permitted within the tree preservation area.
- Construction, installation, maintenance, and removal of fence shall be paid for in Item Special, Tree Protection Fence.



Sediment Fence: This sediment barrier utilizes standard strength or extra strength synthetic filter fabrics. It is designed for situations in which only sheet or overland flows are expected.

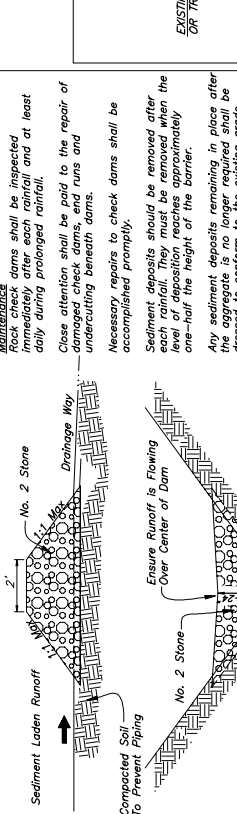
- The height of a sediment fence shall not exceed 36-inches (higher fences may impound volumes of water sufficient to cause failure of the structure).
- The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum of a 6 inch overlap, and securely sealed.
- Posts shall be spaced a maximum of 10 feet apart at the barrier location and driven securely into the ground (minimum of 16 inches). When extra strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet.
- A trench shall be excavated approximately 6 inches wide and 6 inches deep along the line of posts and upslope from the barrier.
- When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least 1-inch long. The wires or hog rings. The wire shall extend into the trench a minimum of 2-inches and shall not extend more than 36-inches above the original ground surface.
- The standard strength filter fabric shall be stapled or wired to the fence, and 8-inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36-inches above the original ground surface. Filter fabric shall not be stapled to existing trees.
- When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric shall be stapled or wired directly to the posts with all other provisions of Item No. 6 applying.
- The trench shall be backfilled and soil compacted over the filter fabric.
- Sediment fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.

Maintenance
Sediment fences and filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.

Should the fabric on a sediment fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, the fabric shall be replaced promptly.

Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier.

Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.



Maintenance
Rock check dams shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.

Close attention shall be paid to the repair of damaged check dams, and any and undercutting beneath dams.

Necessary repairs to check dams shall be accomplished promptly.

Sediment deposits should be removed after each rainfall. They must be removed when the aggregate is no longer required shall be one-half the height of the barrier.

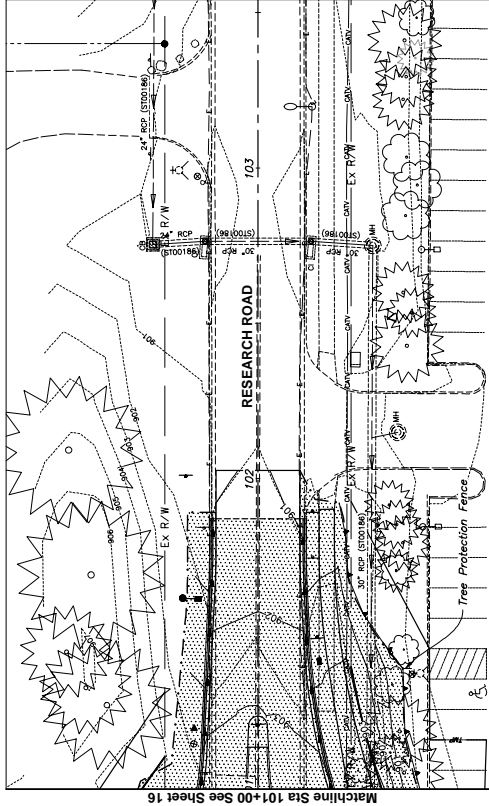
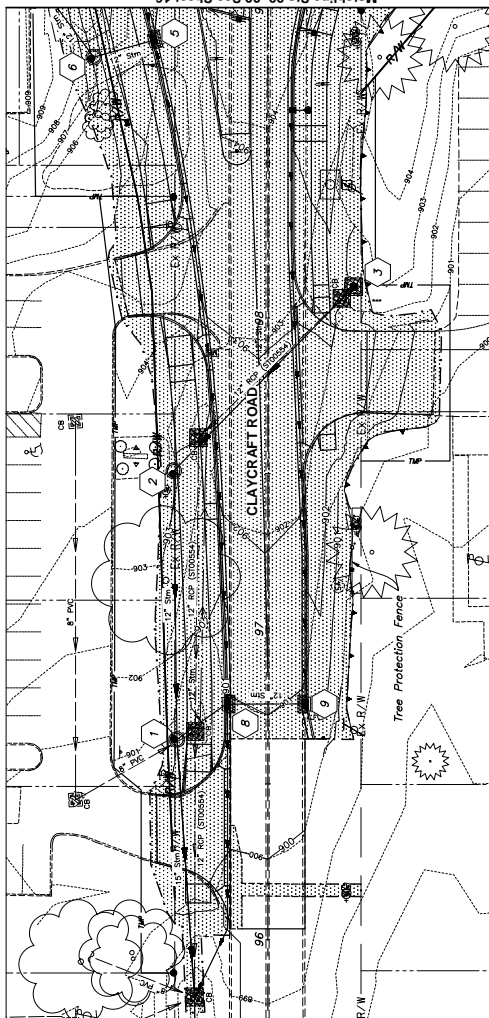
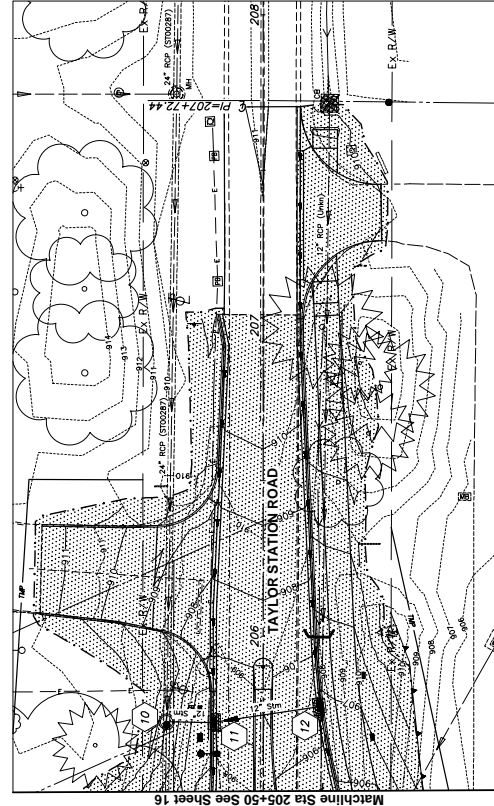
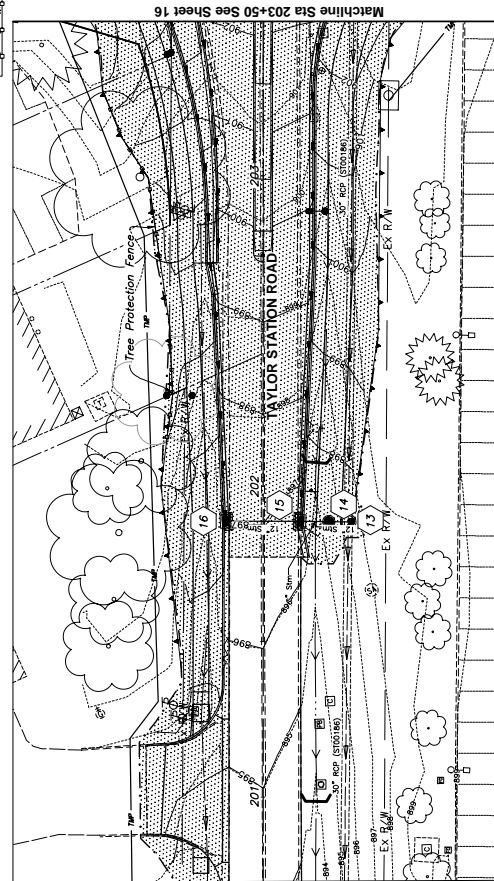
Any sediment deposits remaining in place after the aggregate is no longer required shall be prepared and seeded.

ST-1087
15
47

TAYLOR STATION ROAD CLAYCRAFT ROAD
& RESEARCH ROAD ROUNDABOUT
ST-1087

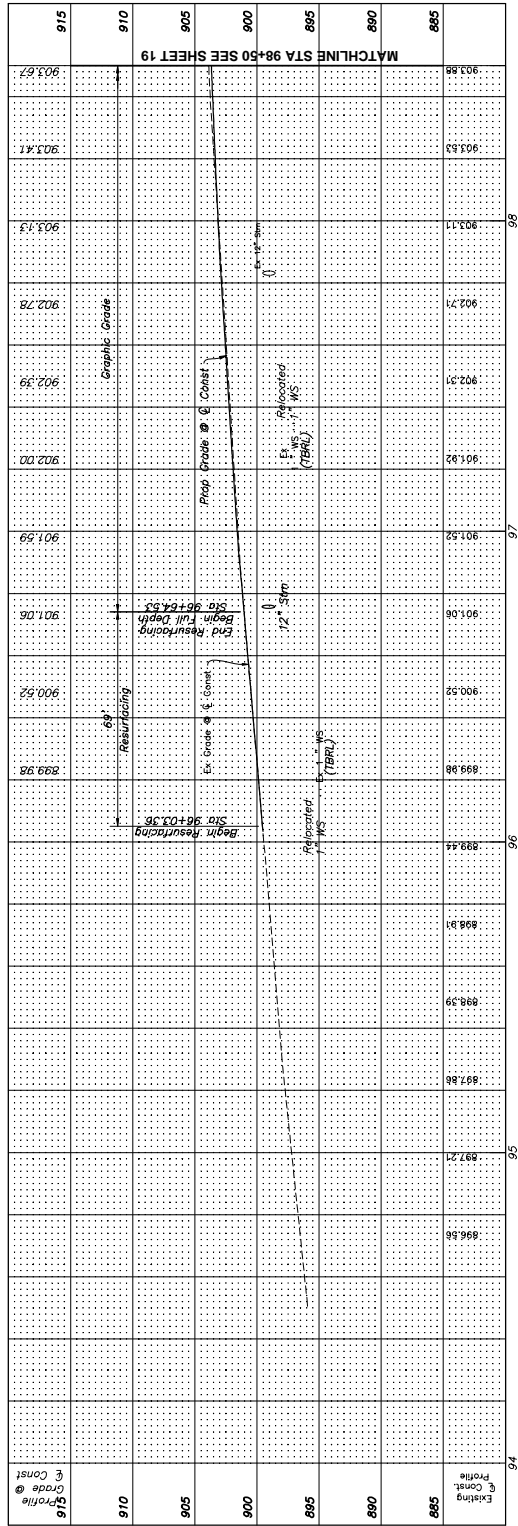
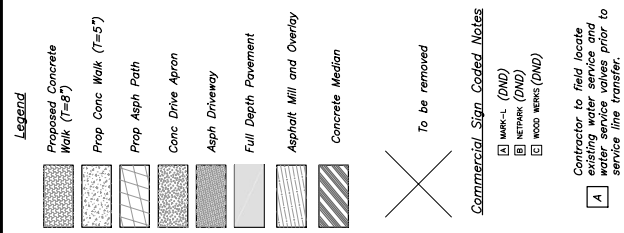
EROSION CONTROL PLAN

CALCULATED
CHECKED
APK
MRB
GRAPHIC SCALE
1 inch = 20 feet



LEGEND

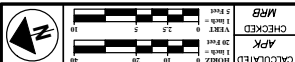
- Project Limits
Filter Fabric Fence
Rock Ditch Check
Storm Sewer Inlet Protection (Beaver Dam or Approved Equal)
Storm Sewer Inlet Protection (Dandy Bag or Approved Equal)
Limits of Disturbance
Tree Protection Fence



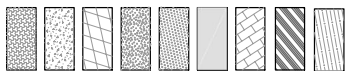
A Contractor to field locate existing water service and water service valves prior to service line transfer.

PLAN VIEW

CLAYCRAFT ROAD / RESEARCH ROAD STA 98+50 TO STA 101+50
TAYLOR STATION ROAD STA 203+00 TO STA 206+00



Legend

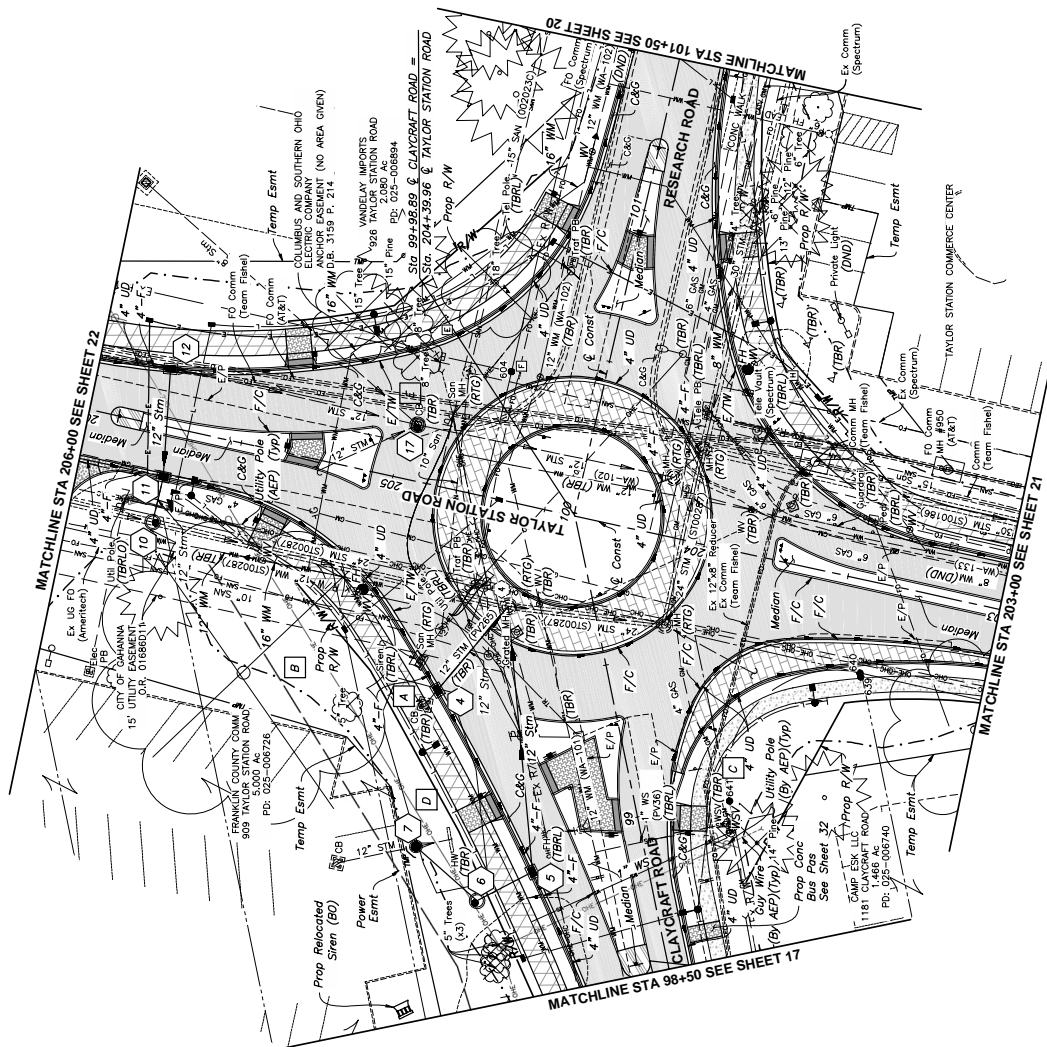


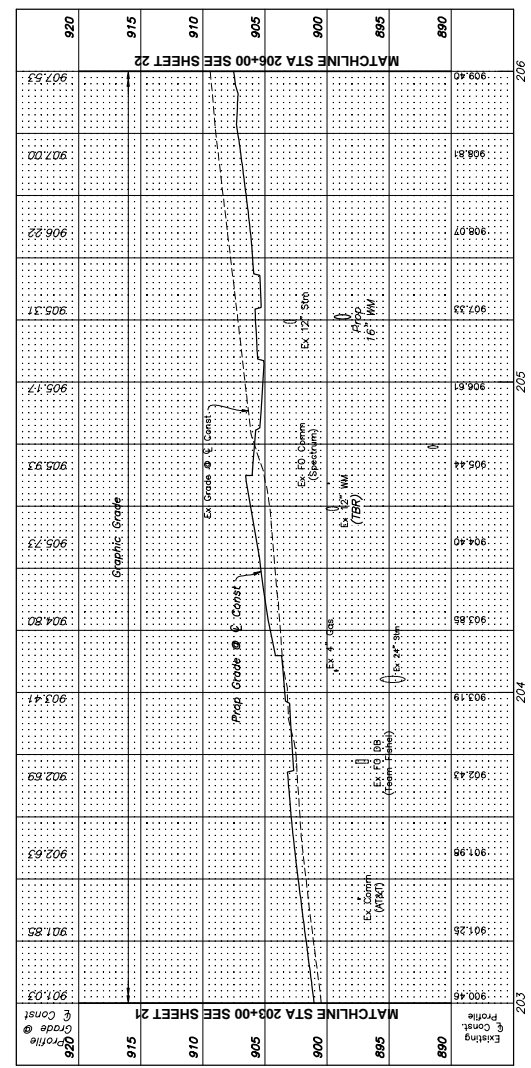
To be removed

Commercial Sign Coded Notes

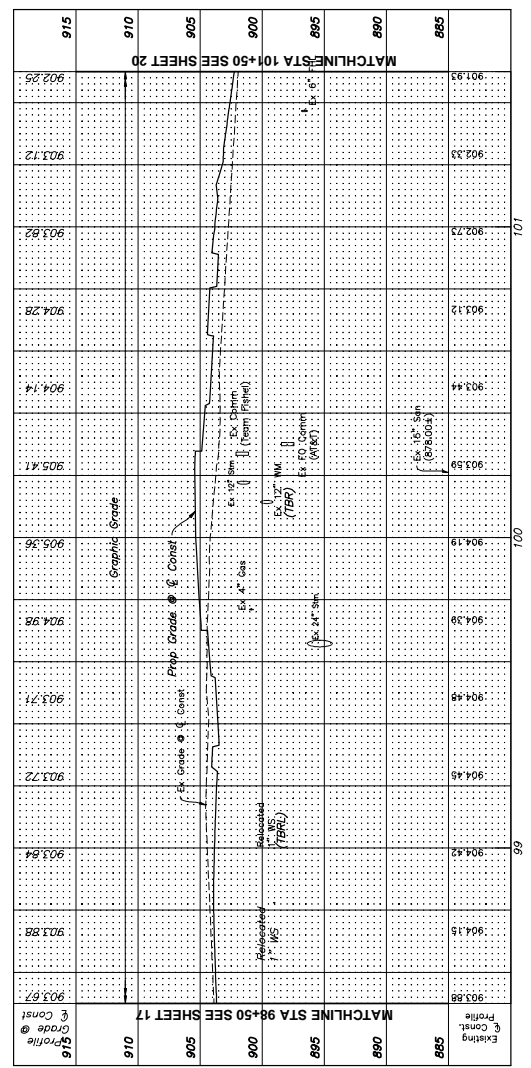
- ☐ E Boss Cars (TBRL)
☐ F Boss Cars Shipping & Receiving (TBRL)
☐ H Taylor Station Commerce Center (TBRL)

- | | |
|----------|--|
| A | Existing Outlet Control Structure To Be Removed. |
| B | Relocated Franklin Emergency Notification Siren on Relocated AEP Pole. |
| C | Contractor to field locate existing water service and water service valves prior to service line transfer. |
| D | Manufactured Water Quality Structure, Type 1 |
| E | Replace existing catch basin with Manhole Type E* AA-S104 |

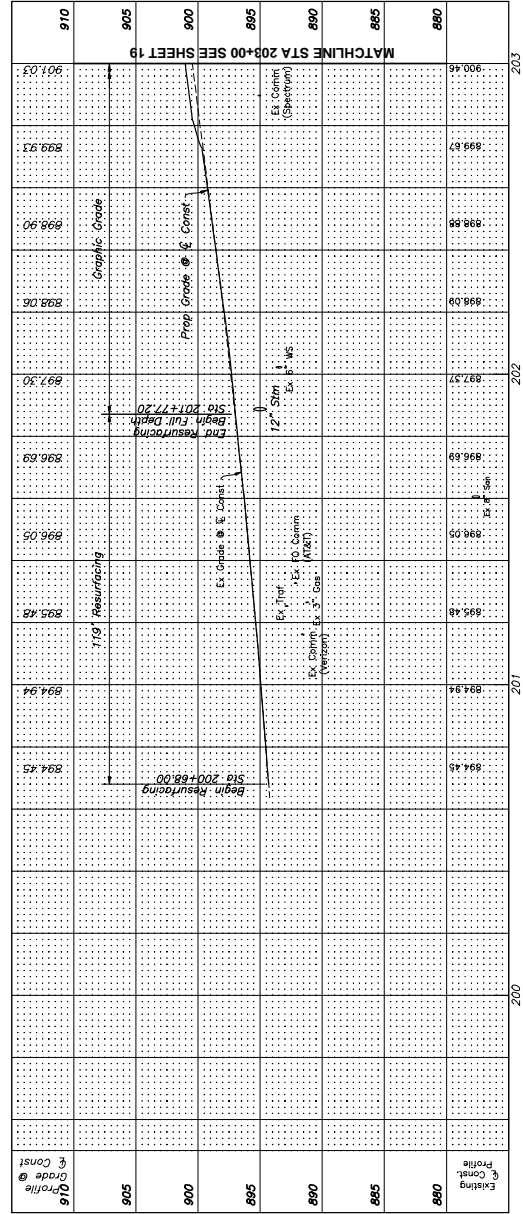




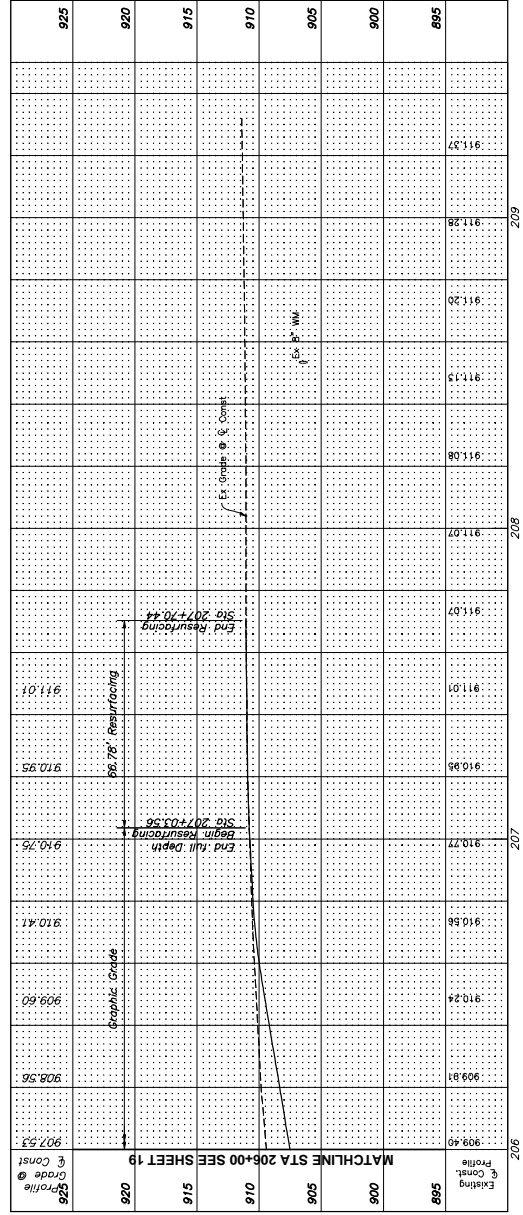
TAYLOR STATION ROAD



CLAYCRAFT ROAD



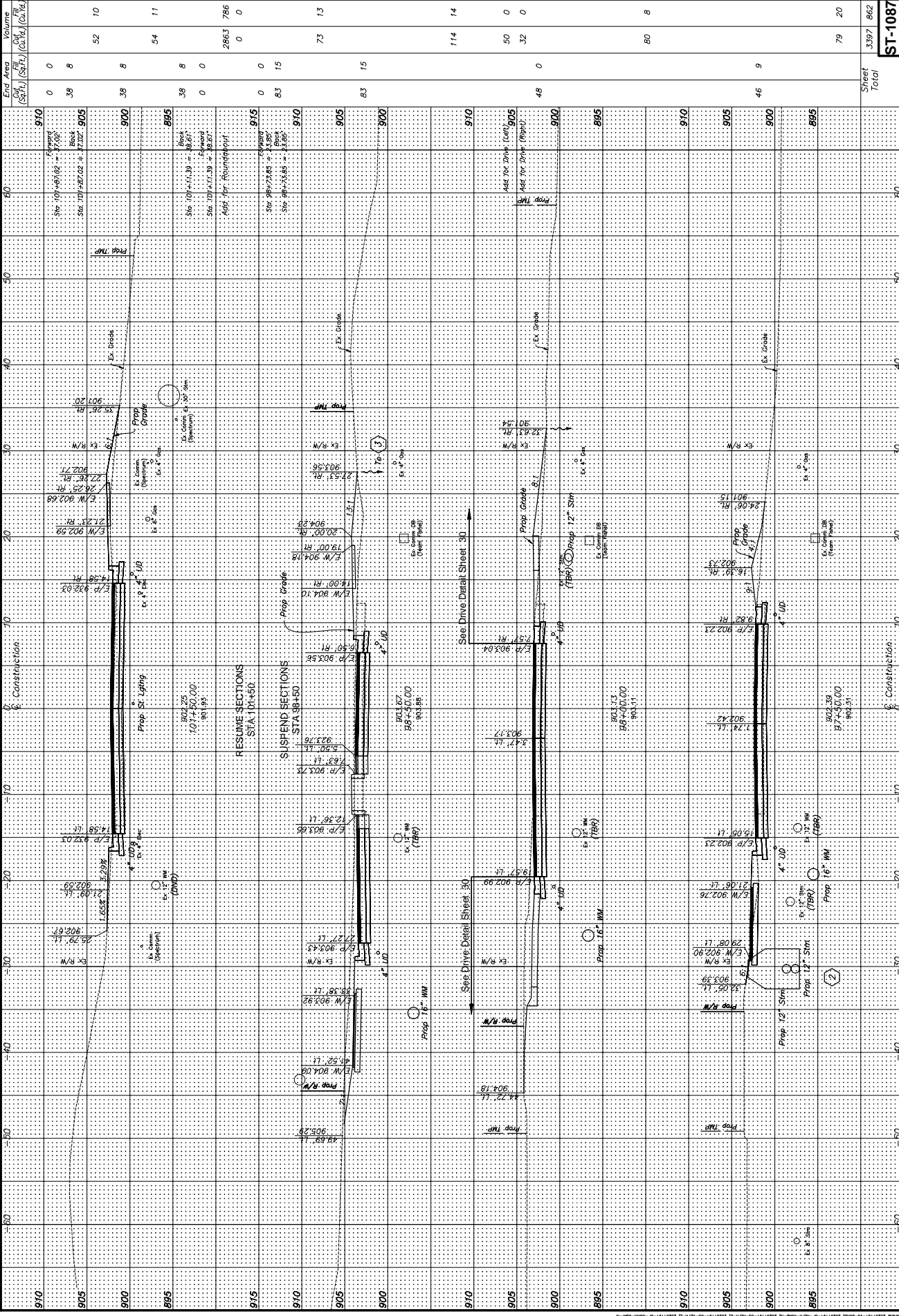
A *Manufactured Water Quality Structure, Type 1*



Legend	Proposed Concrete Walk (7=8")	Concrete Walk (7=5")	8" Shared Use Path	Conc Drive Apron	Asph Drive	Full Depth Asph Pavement	Truck Apron	Asphalt Mill and Overlay	Concrete Median	To be removed

Commercial Sign Coded Notes

<input checked="" type="checkbox"/> N	926 Taylor Station Road (DND)
<input checked="" type="checkbox"/> O	909 Taylor Station Road Shipping & Receiving (DND)
<input checked="" type="checkbox"/> P	No Outlet No Turn Around Boss Cars Signature Auto (DND)



Sheet	3397
Total	862

Volume	52
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	54
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	52
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	54
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	52
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	54
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	52
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	54
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	52
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	54
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	52
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	54
End Area	0
Calc. (Cu/Yd)	0
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Calc. (Cu/Yd)	0

Volume	52
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Calc. (Cu/Yd)	0

Volume	54
End Area	0
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Volume	54
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Calc. (Cu/Yd)	0

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End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	54
End Area	0
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End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

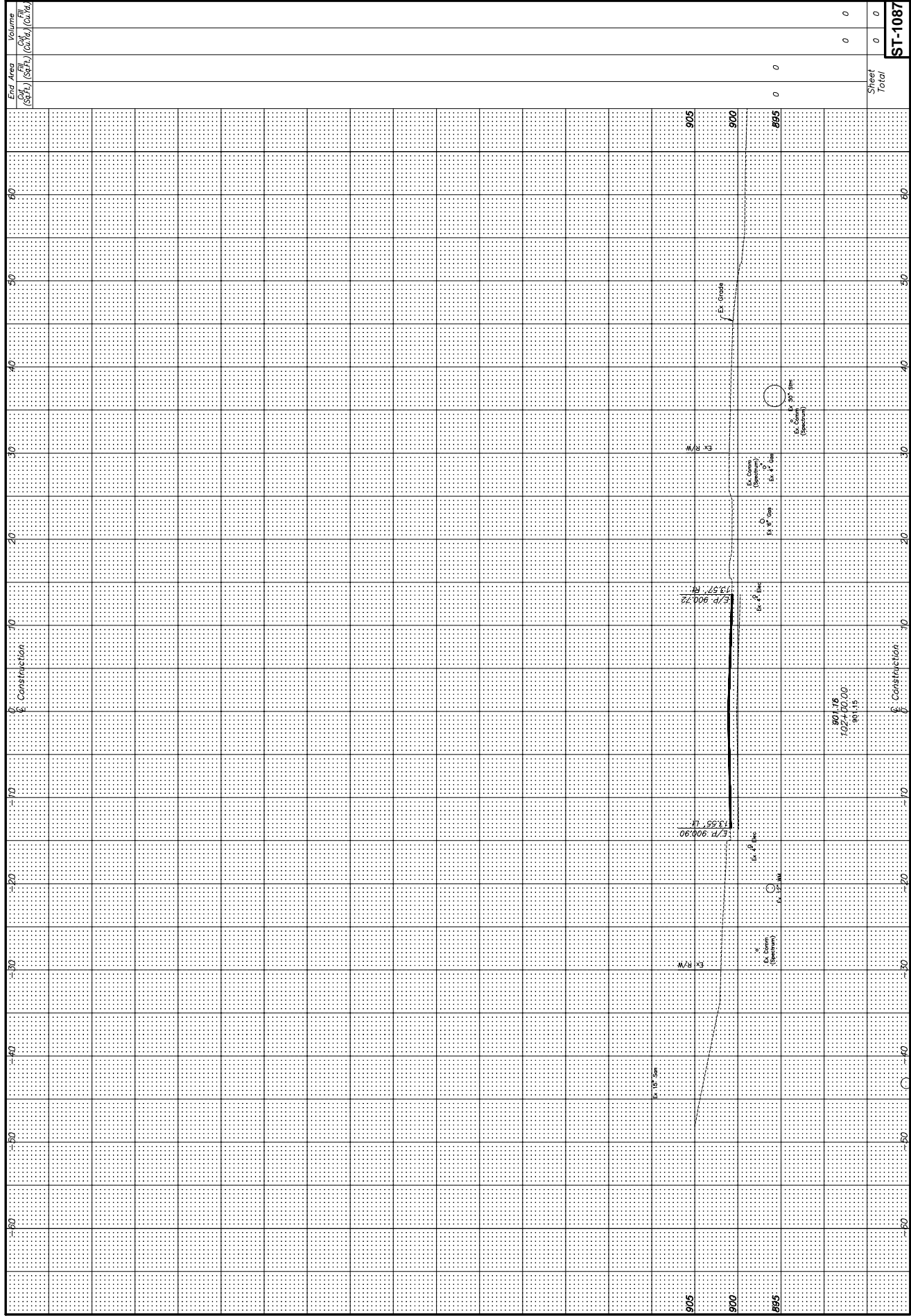
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End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

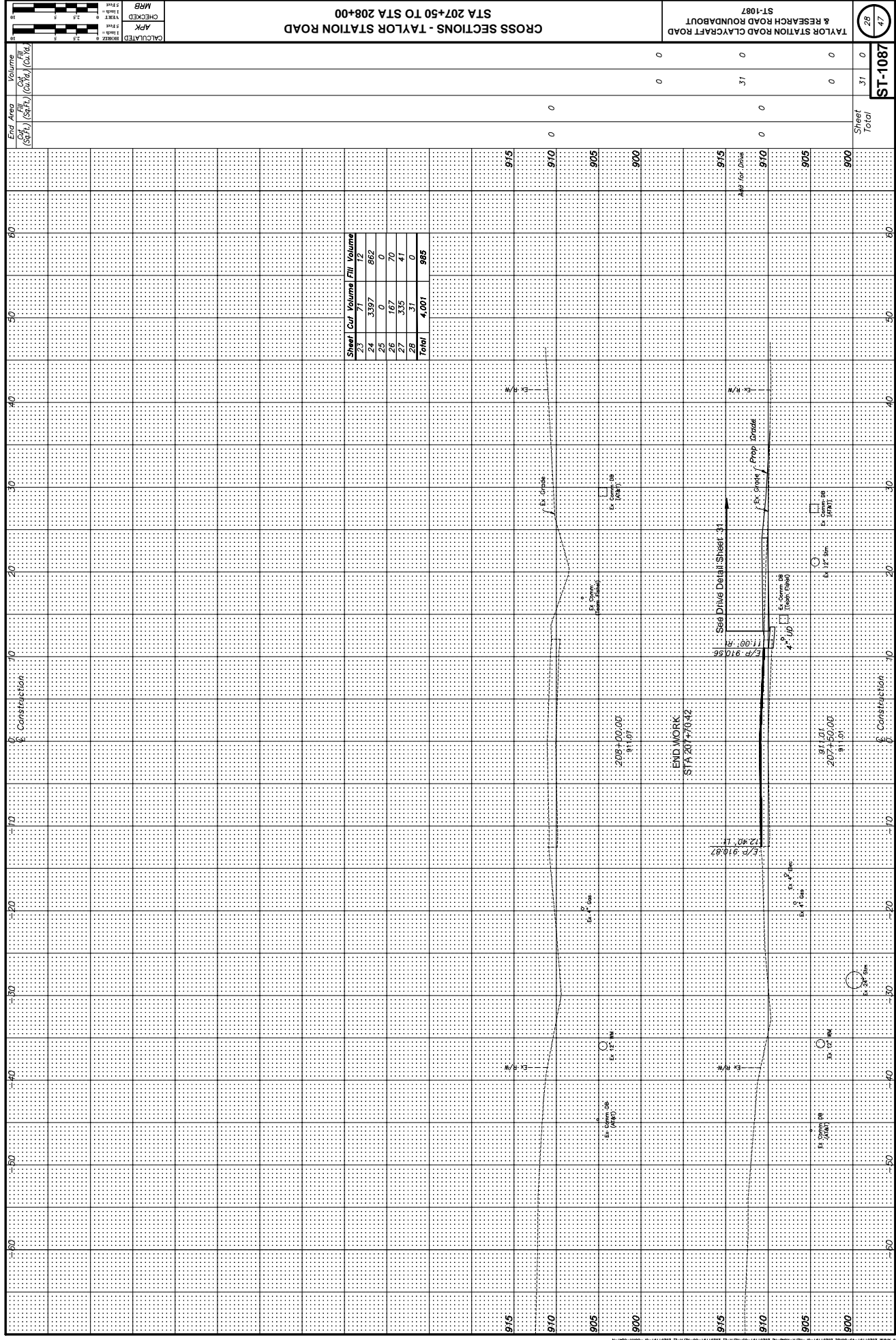
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Calc. (Cu/Yd)	0

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Calc. (Cu/Yd)	0

Volume	52
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0

Volume	54
End Area	0
Calc. (Cu/Yd)	0
Calc. (Cu/Yd)	0





End Area	Volume
$\frac{Cut}{Sq Ft}$	$\frac{Cut}{Cu Yd}$
$\frac{Fill}{Sq Ft}$	$\frac{Fill}{Cu Yd}$

MRB	CHECKED
APK	APK

CALCULATED	MRB
5' 0" 10'	5' 0" 10'
1" 0" 2"	1" 0" 2"

STA 207+50 TO STA 208+00

CROSS SECTIONS - TAYLOR STATION ROAD

ST-1087

TAYLOR STATION ROAD CLAYCRAFT ROAD

& RESEARCH ROAD ROUNDABOUT

ST-1087

Sheet Total

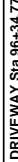
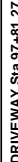
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28

47



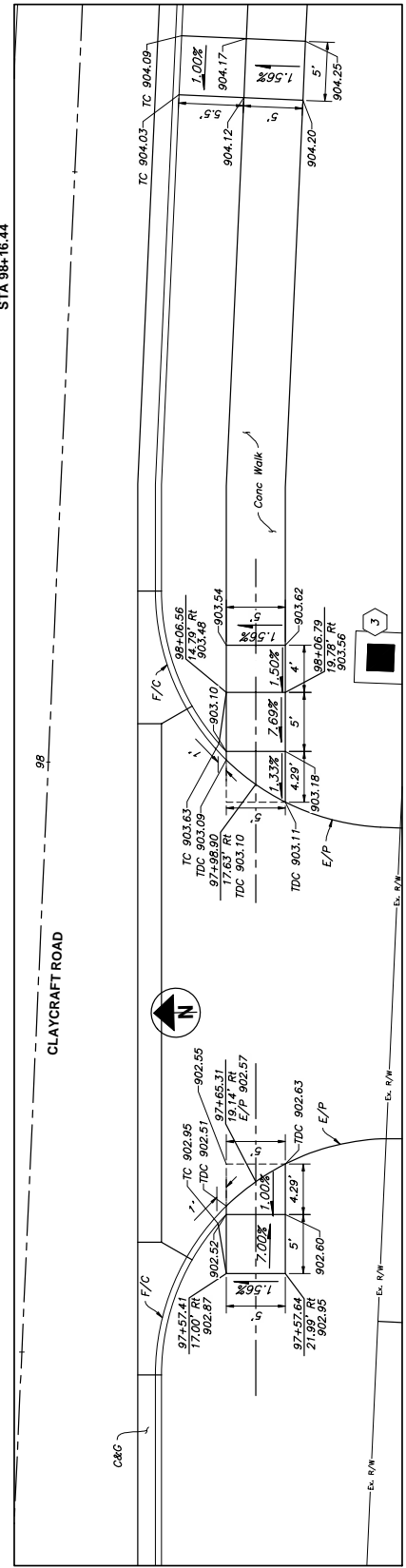
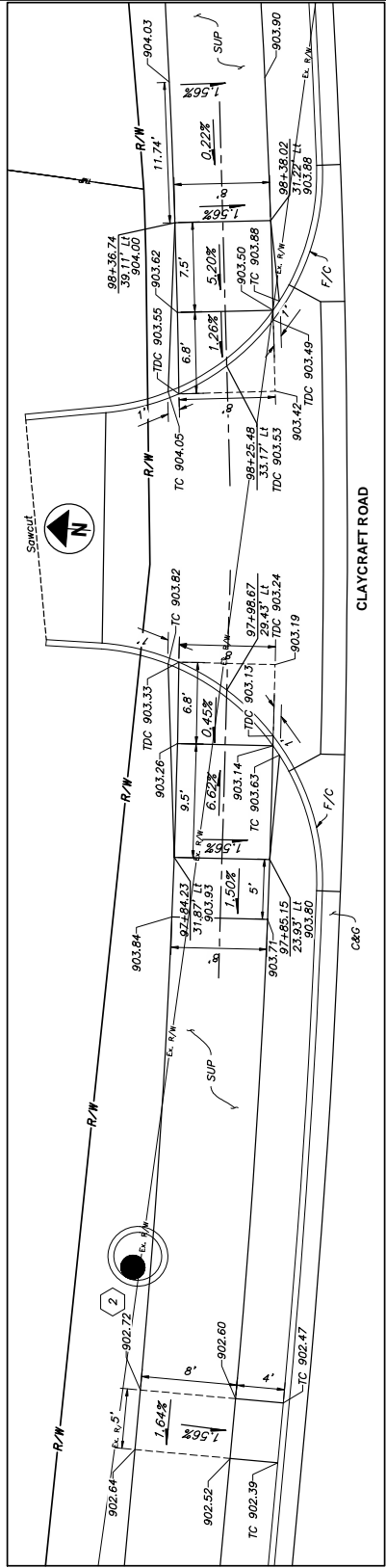
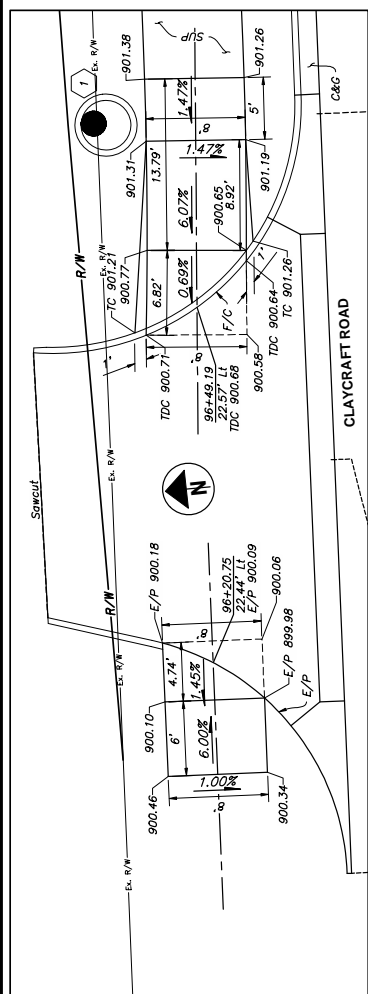


E/TW	Edge of Traveled Way (White Edge Line)
E/P	Edge of Pavement
F/C	Face of Curb/Gutter Line
<div style="border: 1px solid black; padding: 2px; display: inline-block;">A</div>	Taper Curb Height 6" to 0" in 8 feet.

Legend

NOTE: See Curb Ramp Details for intermediate grades.

CURB RAMP DETAILS



Legend

- Match Existing - ME
- Edge of Pavement - E/P
- Face of Curb - F/C
- Top of Curb - T/C
- Top of Depressed Curb - TDC
- Curb & Gutter - C&G

DRIVEWAY CURB RAMP DETAILS



Legend

Match Existing - ME

Edge of Pavement - E/P

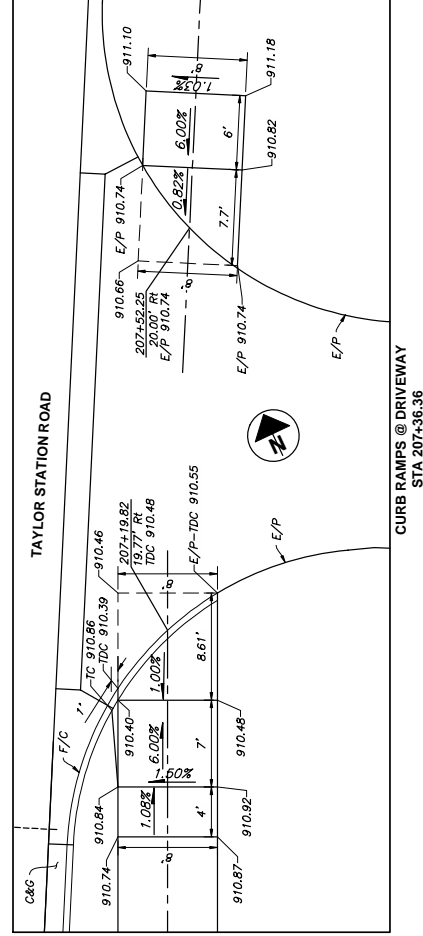
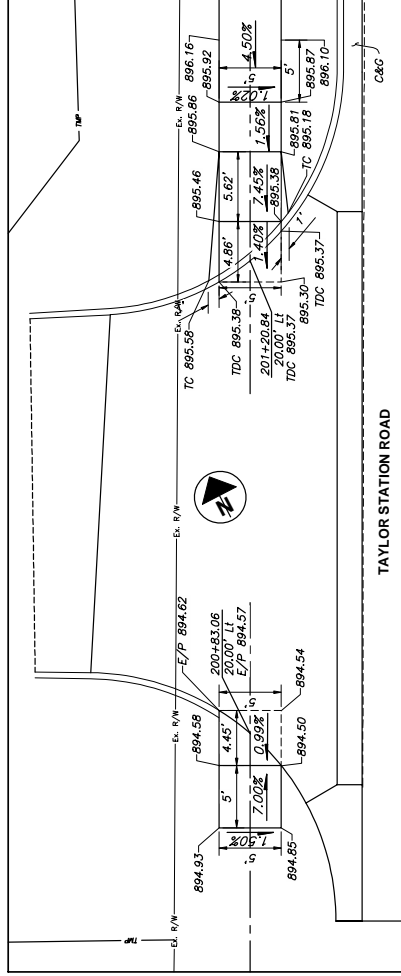
Face of Curb - F/C

Top of Curb - T/C

Top of Depressed Curb - TDC

Curb & Gutter - C&G

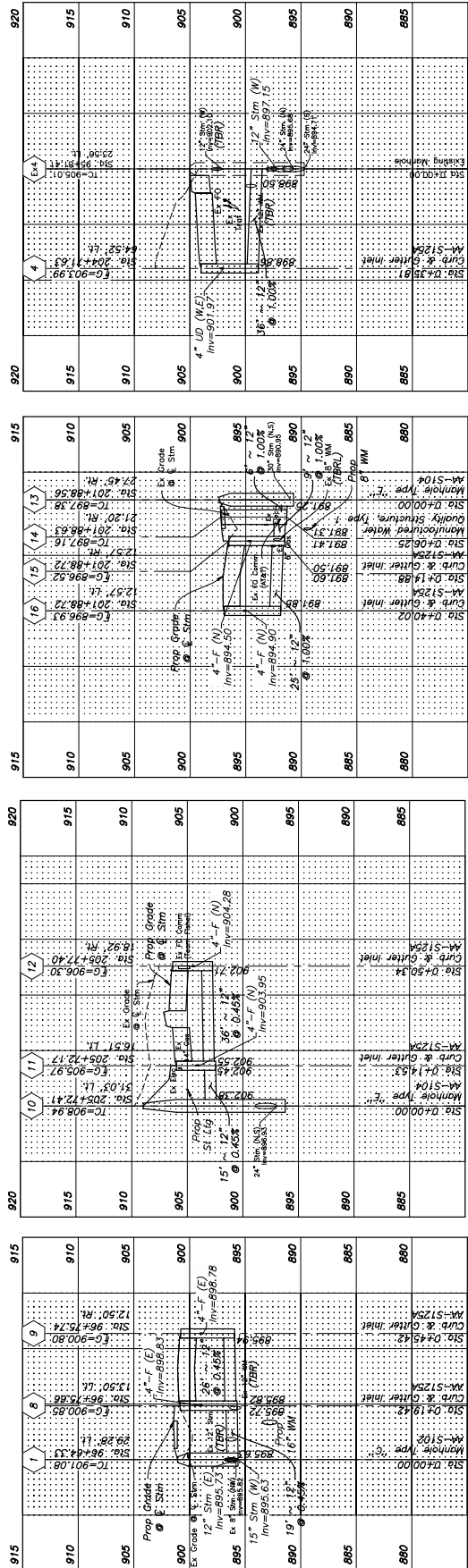
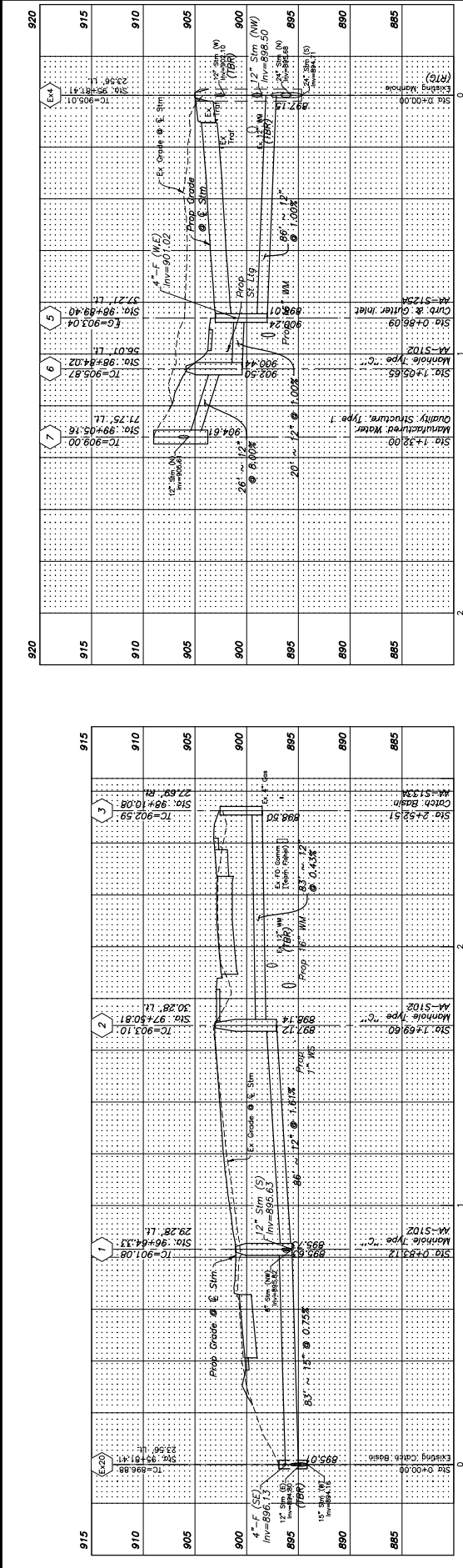
Edge of Traveled Way - E/TW



TAYLOR STATION ROAD
CLAYCRAFT ROAD & RESEARCH
ROAD ROUNDABOUT

STORM SEWER PROFILES

APK	CHECKED	MRB
30	10	10
20	10	10
10	10	10



Notes:

Contractor shall take care to orient manhole lids as shown on the plan sheets.

All backfill shall be Item 912 Compacted Granular Material.

For manholes, station offset references center of base.

For curb and gutter inlets, station offset refers to middle of structure at face of curb. Elevation refers to middle of grate at face of curb.

For curb inlets, station offset refers to middle of structure at face of curb.

The identify and location of existing underground utilities have been shown as accurately as provided by the utility owner. The Owner and Consultant assume no responsibility for the accuracy and location of underground utilities shown on the plans.

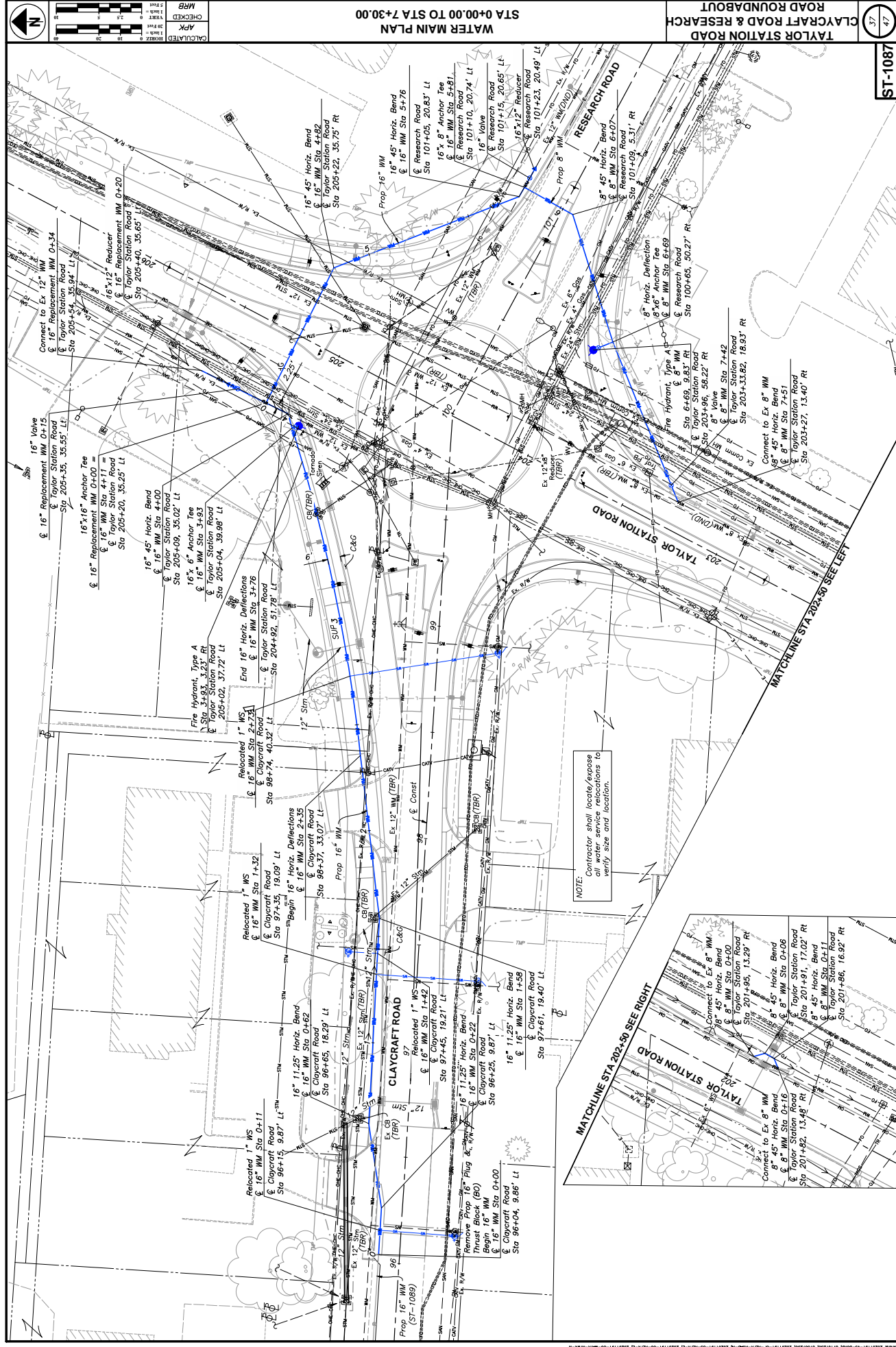
LEGEND:

Top of Curb

Flow line Grade (Elev. at Face of Curb)

TAYLOR STATION ROAD	AYCRAFT ROAD & RESEARCH	ROAD ROUNDABOUT
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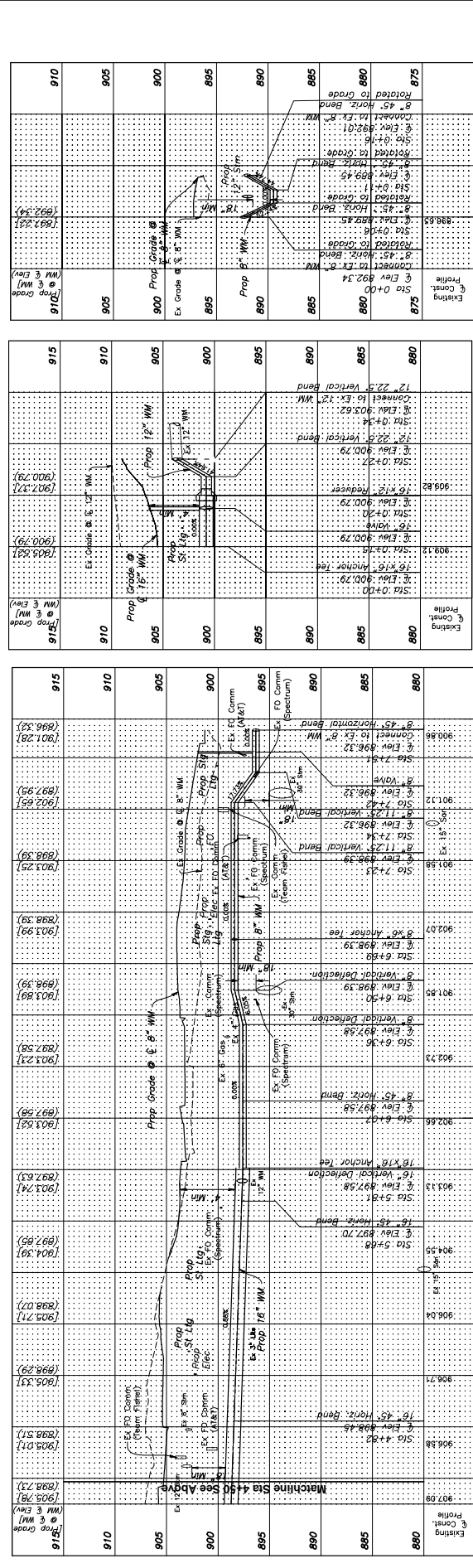
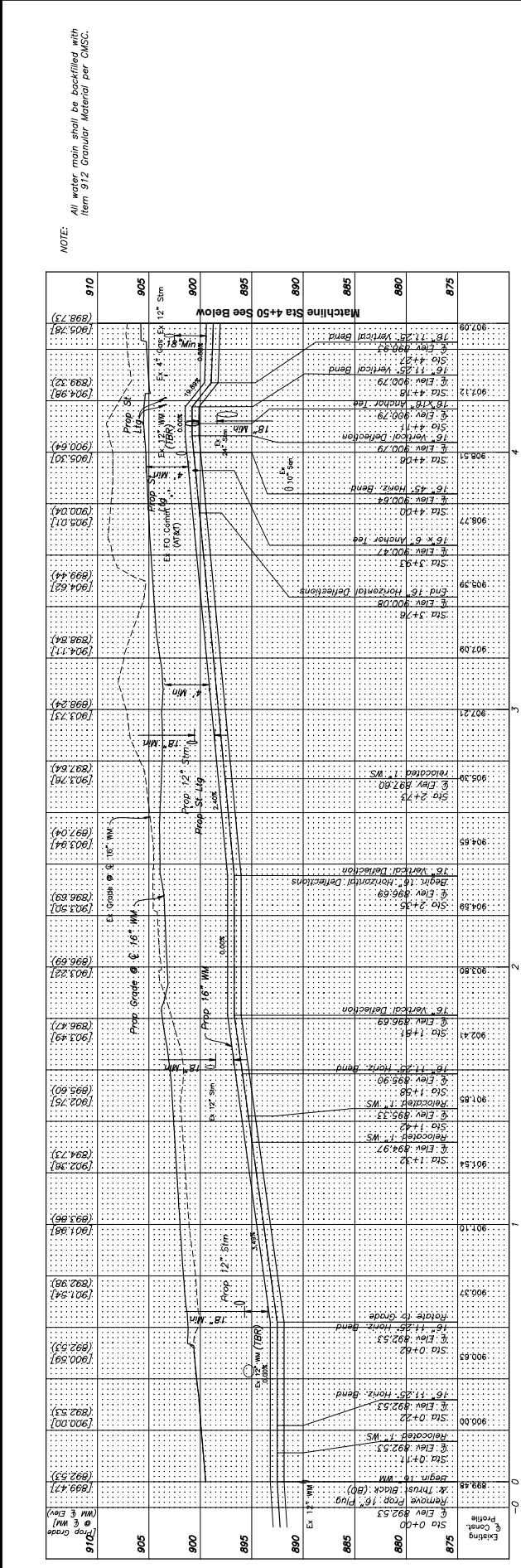
WATER MAIN PLAN
STA 0+00.00 TO STA 7+30.00



TAYLOR STATION ROAD	AYCRAFT ROAD & RESEARCH	ROAD ROUNDABOUT
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WATER MAIN PLAN
TA 0+00.00 TO 7+30.00

	APK	MRB
	CHECKED	CHECKED



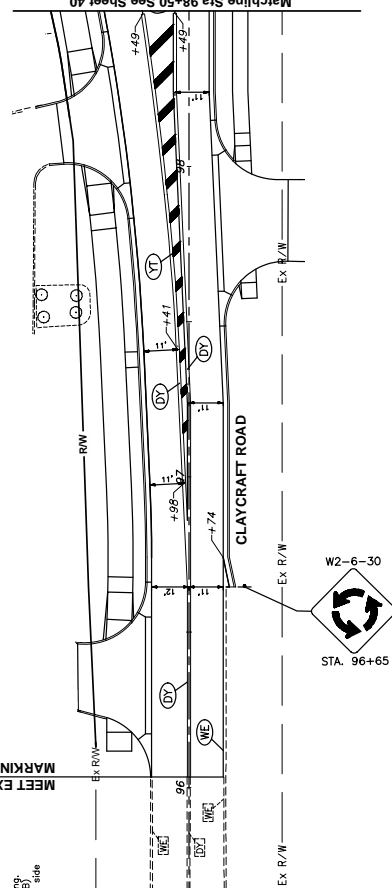
NOTE: All water main shall be backfilled with Item 912 Granular Material per CMSC.

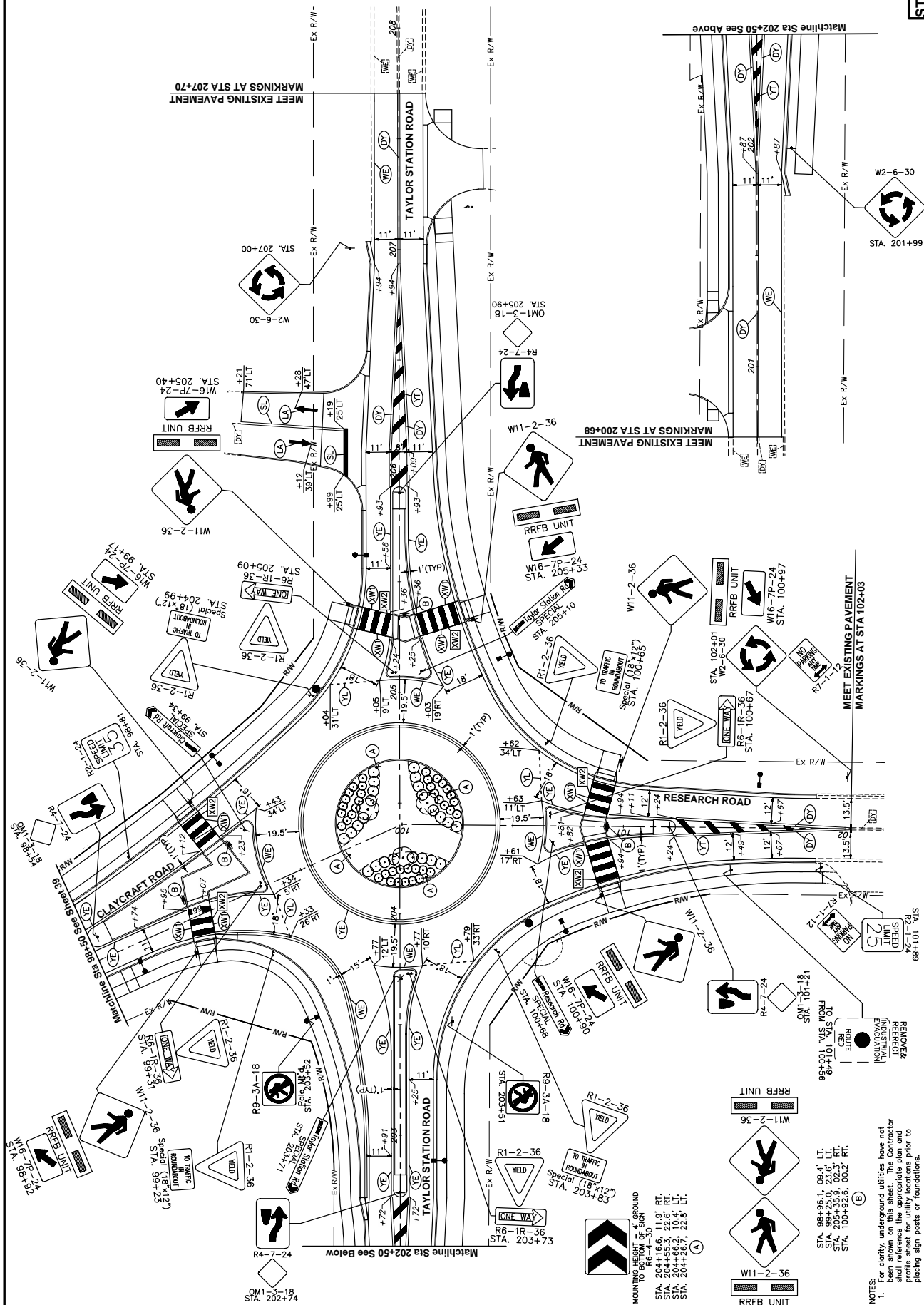
NOTES:

1. For clarity, underground utilities have not been shown on this sheet. The Contractor shall reference the appropriate plan and profile sheet for utility locations prior to placing sign posts or foundations.

1000000

<input checked="" type="checkbox"/> DY	Proposed Pavement Marking (Item 644)
<input checked="" type="checkbox"/> XW2	Proposed Pavement Marking (Item 647-B90)
<input type="checkbox"/> DX	Existing Pavement Marking (To Remain)





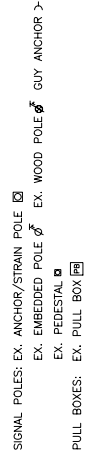
NOTES:

1. For clarity, underground utilities have not been shown on this sheet. The Contractor shall reference the appropriate plan and profile sheet for utility locations prior to placing sign posts or foundations.

 MOUNTING HEIGHT = 4' GROUND
TO BOTTOM OF SIGN
R6-4-30

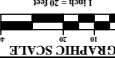
STA. 204+16.6,	11.9' RT.
STA. 204+55.3,	22.6' RT.
STA. 204+66.2,	10.4' LT.
STA. 204+26.7,	22.8' LT.

Xref: 2020191-CU-REK-E; 2020191-CP-REK-WOQ-N; 2020191-CS-HJR-E








LANDSCAPE PLAN



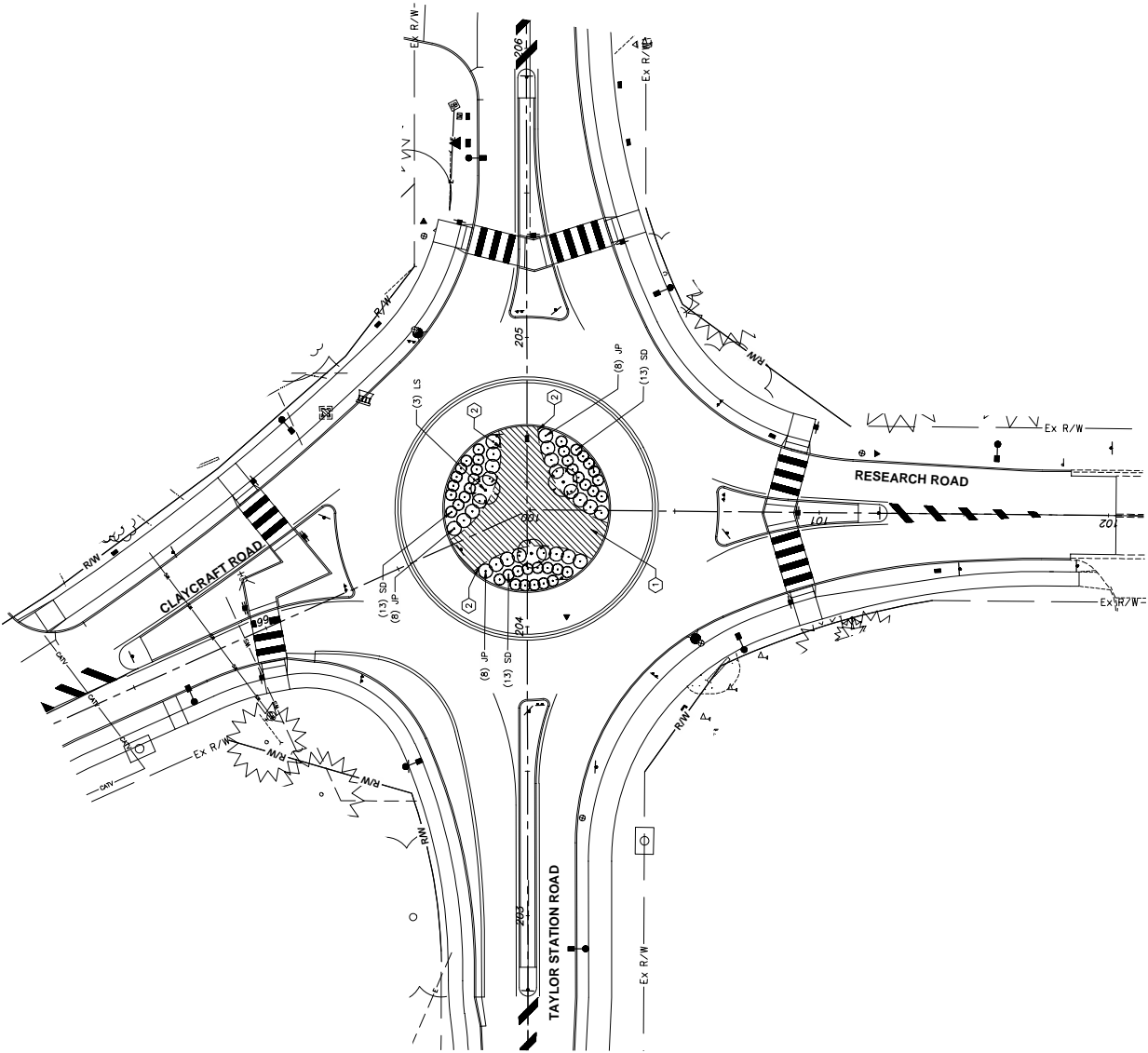
FSM	CHECKED
NMM	CALCULATED

PLANT SCHEDULE

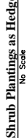
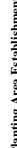
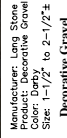
THREE	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONDITION
	LS	3	Slender Shrublet "Sander Shouette"	2" Col.	848
	IP	24	Juniper Street Juniper	24" Ht.	Cont.
	SD	39	Spruce "Juniper" "Juniper"	24" Ht.	Cont.

LANDSCAPE MATERIALS

SYMBOL	DESCRIPTION	QTY
1	Decorative Gravel	1,252 sf
2	Metal Edge	132 lf



10





Subgrade Exploration Report

Taylor Station & Claycraft Road Intersection Improvements

Gahanna, Ohio

December 8, 2021

Terracon Project No. N4205153

Prepared for:

EMH&T, Inc.
Columbus, Ohio

Prepared by:

Terracon Consultants, Inc.
Columbus, Ohio



December 8, 2021

EMH&T, Inc.
5500 New Albany Road
Columbus, Ohio 43054



Attn: Mr. Michael Brehm
D: (614) 775-4616
E: mbrehm@emht.com

Re: Subgrade Exploration Report
Taylor Station & Claycraft Road Intersection Improvements
Gahanna, Ohio
Terracon Project No. N4205153

Dear Mr. Brehm:


Terracon Consultants, Inc. (Terracon) has completed the Geotechnical Engineering services for the above referenced project. This study was performed in general accordance with Terracon's Proposal for the Geotechnical Exploration dated April 13, 2020 and work authorization via signed Project Service Agreement dated December 22, 2020. This report presents the findings of our subsurface exploration, laboratory testing results, subgrade analyses results, and provides construction recommendations for the proposed roadway improvements.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely,

Terracon Consultants, Inc.

For 
Ganesh Vairavan
Senior Staff Engineer


Kevin M. Ernst, P.E.
Principal, Regional Manager

REPORT TOPICS

INTRODUCTION.....	1
GEOLOGY AND OBSERVATIONS OF THE PROJECT.....	1
EXPLORATION	2
FINDINGS	4
ANALYSIS AND RECOMMENDATIONS	5
GENERAL COMMENTS.....	8

Note: This report was originally delivered in a web-based format. **Orange Bold** text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the **GeoReport** logo will bring you back to this page. For more interactive features, please view your project online at client.terracon.com.

ATTACHMENTS

SITE LOCATION AND BORING LOCATION PLANS
EXPLORATION AND TESTING RESULTS
GB-1 SUBGRADE ANALYSIS
SUPPORTING INFORMATION

Note: Refer to each individual Attachment for a listing of contents.

Subgrade Exploration Report

Taylor Station & Claycraft Road Intersection Improvements ■ Gahanna, Ohio
December 8, 2021 ■ Terracon Project No. N4205153



EXECUTIVE SUMMARY

This report presents the results of our subsurface exploration and geotechnical engineering services performed for the proposed Taylor Station & Claycraft Road Intersection Improvements project in Gahanna, Ohio.

The proposed roadway improvements include installation of a roundabout at the intersection of Taylor Road and Claycraft Road, reconstruction of Taylor Station Road approximately from station STA. 201+76 on the south to STA. 207 on the north, and reconstruction of Claycraft Road/Research Road approximately from STA. 96+59 on the west to STA. 102 on the east. The total length of reconstruction along Taylor Station Road is approximately 525 feet and total length of reconstruction along Claycraft/Research Road is approximately 540 feet.

Four (4) borings, designated B-001-0-21 through B-004-0-21 were performed to a depth of approximately 10 feet below existing site grades. The borings were drilled on existing pavement and encountered approximately 9 to 10 inches of asphalt and 5.5 to 10 inches aggregate base material. The natural overburden soil in the borings typically consisted of silt and clay (A-6a), silty clay (A-6b) and clay (A-7-6) exhibiting consistencies ranging from very stiff to hard. Boring B-002-0-21 encountered medium stiff consistency silt and clay to an approximate depth of 1.0 feet below existing grade.

Groundwater was not encountered during drilling of the borings and for the short duration the borings remained open after completion of drilling.

Cohesive soils with natural moisture contents more than 2 percent above the optimum moisture contents were observed in the borings from the existing ground surface to a depth of approximately 2.5 feet indicating elevated moisture conditions. Unsuitable soils, as described by ODOT GB-1, were not encountered in the borings.

Considering the high soil moisture contents encountered in the borings, installation of a drainage system including construction of underdrains and adequate ditches are recommended as a practical solution to promote drainage of the subgrade and improve subgrade stability for both Taylor Station and Claycraft roadways.

Recommendations for stabilizing the subgrade using undercut and replace and chemical stabilization (lime) methods have been provided for roadway subgrade along Taylor Station Road between STA. 201+76 and STA. 204+00. Based on the test borings performed along Claycraft Road and results of the subgrade analysis, we do not anticipate any stabilization within this alignment will need to be specially called out in the roadway plans.

Based on the results of our subgrade analyses, a CBR value of 5 is recommended for the design of the proposed reconstruction.

Subgrade Exploration Report

Taylor Station & Claycraft Road Intersection Improvements ■ Gahanna, Ohio
December 8, 2021 ■ Terracon Project No. N4205153



This summary should be used in conjunction with the entire report for design purposes. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein. The section titled **General Comments** should be read for an understanding of the report limitations.

Subgrade Exploration Report
Taylor Station & Claycraft Road Intersection Improvements
Gahanna, Ohio
Terracon Project No. N4205153
December 8, 2021

INTRODUCTION

This report presents the results of our subsurface exploration and geotechnical engineering services performed for the proposed Taylor Station and Claycraft Road Intersection Improvements project located in Gahanna, Ohio. The purpose of these services is to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil conditions
- Subgrade analysis
- Construction recommendations
- Short-term ground water conditions
- Subgrade preparations

The proposed improvements include installation of a roundabout at the intersection of Taylor Station and Claycraft Road, reconstruction of Taylor Station Road approximately from station STA. 201+76 on the south to STA. 207 on the north, and reconstruction of Claycraft Road/Research Road approximately from STA. 96+59 on the west to STA. 102 on the east. The total length of reconstruction along Taylor Station Road is approximately 525 feet and total length of reconstruction along Claycraft/Research Road is approximately 540 feet. The reconstruction of Taylor Station and Claycraft Road also includes slight changes to the alignment due to installation of roundabout at the intersection.

The geotechnical engineering scope of work included the advancement of four (4) test borings on the existing roadway, designated B-001-0-21 through B-004-0-21 to a depth of approximately 10 feet each, below existing site grade.

Maps showing the site and boring locations are shown in the **Site Location** and **Exploration Plan** sections, respectively. The results of the laboratory testing performed on select soil samples obtained from the site during the field exploration are included on the boring logs and are attached separately in the **Exploration and Testing Results** section.

GEOLOGY AND OBSERVATIONS OF THE PROJECT

Geology

The project site is located within the Interior Plains physiographic section of the Till Plains physiographic province. The Columbus Lowland Till Plains physiographic section is generally

Subgrade Exploration Report

Taylor Station & Claycraft Road Intersection Improvements ■ Gahanna, Ohio
December 8, 2021 ■ Terracon Project No. N4205153



characterized as lowland surrounded in all directions by relative uplands, having a broad regional slope toward the Scioto Valley. Elevations within the Till Plains range from 600 to 850 feet and the section generally has moderately low relief.

According to the USGS surface geology maps, the surficial geology is described as flat to gently undulating ground moraine. Wisconsinan aged till overlays the Berea Sandstone and Bedford Shale bedrock units. This Devonian aged formation consists primarily of sandstone with secondary rock being shale.

Observations

The intersection of Taylor Station and Claycraft Road is an urban 4-legged intersection in Gahanna, Ohio. Site reconnaissance was performed by Terracon on April 14, 2021. Existing Taylor Station and Claycraft Road are two lane, undivided roadways. The existing pavement appeared to be in a poor to fair condition along Taylor Station and Claycraft Road within the project limits. Overhead powerlines were observed along sides of both roadways.

EXPLORATION

Field Exploration

A total of four (4) borings, designated B-001-0-21 through B-004-0-21 were performed on May 7, 2021. The borings were drilled through the existing pavement to a depth of approximately 10 feet below existing site grades in general accordance with Section 303.3 of the Ohio Department of Transportation (ODOT) Specifications for Geotechnical Explorations (SGE) for roadway borings.

Locations of the borings are illustrated on the attached **Exploration Plan** and summarized in the following table.

Boring ID	Alignment	Station & Offset ¹	Boring Elevation ² (feet)	Latitude ² (degrees)	Longitude ² (degrees)	Boring Depth ³ (feet)
B-001-0-21	Taylor St. Rd.	202+62, CL	899.5	39.992062	-82.840188	10
B-002-0-21	Taylor St. Rd.	206+16, CL	909.5	39.992919	-82.839627	10
B-003-0-21	Research Rd.	101+27, CL	902.5	39.992397	-82.839628	10
B-004-0-21	Claycraft Rd.	97+95, CL	903	39.992594	-82.840716	10

1. The station and offset information were inferred from the provided 'Site Aerial Exhibit' and are approximate

2. Test borings coordinates were obtained by Terracon using a handheld GPS unit. Ground surface elevation of test borings was derived from the plan provided.

3. Below existing site grades.

Subgrade Exploration Report

Taylor Station & Claycraft Road Intersection Improvements ■ Gahanna, Ohio
December 8, 2021 ■ Terracon Project No. N4205153



The boring locations were located in the field prior to drilling operations by Terracon personnel using a hand-held GPS unit. The coordinates presented on the preceding table, and boring logs, were obtained using this unit and are approximate. The ground surface elevation of test borings was derived from the plan provided.

We advanced the borings with track mounted drill rigs using continuous flight hollow stem augers through overburden materials. Five samples were obtained from each boring. The soil samples were obtained using the split-barrel sampling procedure. In the split-barrel sampling procedure, a standard 2-inch O.D. sampling spoon is driven into the boring with a 140-pound automatic SPT (Standard Penetration Test) hammer falling 30 inches. We recorded the number of blows required to advance the sampling spoon and the last 12 inches of an 18-inch sampling interval as the standard penetration resistance value (N-value). This value is corrected to an equivalent (60 percent) energy ratio (N_{60}) utilizing the hammer efficiency energy ratio. In addition, we observed and recorded groundwater levels during drilling and upon completion. The samples were placed in appropriate containers and taken to our soil laboratory for testing.

The field boring logs were prepared by a drilling crew that include sampling depths, penetration distances, and other relevant sampling information. Field logs include visual classifications of materials encountered during drilling, and our interpretation of subsurface conditions between samples. Final boring logs represent the geotechnical engineer's interpretation of field logs, and include modifications based on visual classification and laboratory tests.

Following the completion of drilling, the boreholes were sealed with a cement-bentonite grout. Where borings penetrated the existing pavement surface, the roadway surface was repaired using asphalt patch.

Laboratory Testing Program

As part of the testing program, all samples were examined in our laboratory by a geotechnical engineer. Soil samples were classified in general accordance with ODOT SGE Section 600 Laboratory Testing based on the texture and plasticity of the soils.

Laboratory tests were assigned to the samples of the roadway borings in accordance with the latest ODOT Geotechnical Bulletin No.1 (GB-1). Atterberg limits, moisture content, and grain size analysis testing were performed on selected soil samples to obtain accurate information. In addition, sulfate testing was performed on the samples within 1.5 to 4.5 feet below ground surface from the roadway borings. The results of lab testing are shown on the boring logs and/or presented in the **Laboratory Testing Results** of this report.

Subgrade Exploration Report

Taylor Station & Claycraft Road Intersection Improvements ■ Gahanna, Ohio
December 8, 2021 ■ Terracon Project No. N4205153



FINDINGS

Boring logs have been prepared based on the information obtained from the field logs prepared at the time of drilling, and the visual examination performed in the laboratory. Soil classification was performed in general accordance with the current ODOT SGE. The logs have also been modified as necessary based on the results of the laboratory testing program. The following sections summarize the subsurface conditions encountered at the boring locations.

Subsurface Profile

In general, the borings encountered surface pavement materials underlain by cohesive soils. The borings were drilled on existing pavement and encountered approximately 9 to 10 inches of asphalt and 5.5 to 10 inches aggregate base material.

The natural overburden soil in the borings typically consisted of silt and clay (A-6a), silty clay (A-6b) and clay (A-7-6) exhibiting consistencies ranging from very stiff to hard. Boring B-002-0-21 encountered medium stiff consistency silt and clay to an approximate depth of 2.5 feet below existing grade.

Cohesive soils with natural moisture contents more than 2 percent above the optimum moisture contents were observed in the borings from the existing ground surface to a depth of approximately 2.5 feet indicating elevated moisture conditions. Unsuitable soils, as described by ODOT GB-1, were not encountered in the borings.

The table below summarizes the results of sulfate testing performed on the subgrade samples. It should be noted that samples with sulfate content greater than 5,000 parts per million (ppm) prohibit subgrade stabilization using chemical stabilization methods according to ODOT GB1 guideline. None of the test results exceeded ODOT's 5,000-ppm threshold sulfate concentration level for problematic sulfate levels.

Boring ID	Sample Depth (feet) ¹	Sulfate Concentration (ppm)
B-001-0-21	2.5-4	161
B-003-0-21	2.5-4	361
B-004-0-21	2.5-4	260

¹. Below ground surface

Bedrock

Bedrock was not encountered in the borings to the depths explored.

Subgrade Exploration Report

Taylor Station & Claycraft Road Intersection Improvements ■ Gahanna, Ohio
December 8, 2021 ■ Terracon Project No. N4205153



Groundwater Conditions

Groundwater was not encountered during drilling of the borings and for the short duration the borings remained open after completion of drilling. Absence of groundwater in the boring does not necessarily mean the boring was terminated above groundwater. Due to the low permeability of the soils encountered in the boring, a relatively long period of time may be necessary for a groundwater level to develop and stabilize in a borehole in these materials. Long term observations in piezometers or observation wells sealed from the influence of surface water are often required to define groundwater levels in materials of this type.

Groundwater level fluctuations occur due to seasonal variations in the amount of rainfall, runoff, and other factors not evident at the time the borings were performed. Therefore, groundwater levels during construction or at other times in the life of the pavement and structure may be higher or lower than the levels indicated on the boring logs. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

ANALYSIS AND RECOMMENDATIONS

Subgrade Analysis

Based on the plan provided by EHM&T, we have assumed about 0.5 feet of fill in vicinity of boring B-001-0-21, about 2 feet of cut in the vicinity of boring B-002-0-21, about 0 to 1 foot of fill in the vicinity of borings B-003-0-21 and B-004-0-21. We have assumed 1.5 feet of proposed pavement material consisting of asphalt and aggregate base. If this assumption is not consistent with the project plans, Terracon needs to be notified.

In general, the soils at or near the anticipated pavement subgrade level consisted of medium stiff to hard, Clay (A-7-6), silt and clay (A-6a) and silty clay (A-6b). Based on our laboratory testing, the subgrade soils to a depth of up to about 7 feet below the surface have moisture contents ranging from about 13 to 26 percent, with an average moisture content of the subgrade soils across the project area of about 17 percent. Plasticity indices ranged from about 14 to 26, with an average plasticity index of about 19.

Generally, subgrade soils with a moisture content exceeding the optimum moisture content of the soil by three or more percentage points, are considered to be unstable soils, per ODOT GB1 guideline. Cohesive soils with natural moisture contents greater than more than 3 percent above the optimum moisture contents were observed in 43% of the sample intervals within 3 feet of the proposed subgrade.

Subgrade Exploration Report

Taylor Station & Claycraft Road Intersection Improvements ■ Gahanna, Ohio
December 8, 2021 ■ Terracon Project No. N4205153



The SPT N_{60} values in the roadway subgrade soils ranged from 6 to 45 blows per foot (bpf). The average SPT N_{60} value was about 23 bpf. The N_{60L} values (low N-values) for the anticipated subgrade soils encountered in the test borings ranged from 6 to 17 bpf, with an average N_{60L} value of 13 bpf. The unconfined compressive strength of cohesive soil samples as determined by a hand penetrometer ranged from 1.5 to 4.5 tsf with an average value of 3.28 tsf. A summary of the subgrade soils is tabulated on ODOT's **GB-1 Subgrade Analysis** spreadsheet in attachments section of this report.

Considering the high soil moisture contents encountered in the borings, installation of a drainage system including construction of underdrains and adequate ditches are recommended as a practical solution to promote drainage of the subgrade and improve subgrade stability for both Taylor Station and Research roadways. When embankment fill of approximately 3 feet or more is anticipated to be placed on the existing subgrade, we understand that placing underdrains is not practical. Since the proposed subgrade in these areas will consist of about 3 feet or more of embankment fill, there is no remediation required for the high moisture contents.

In addition, we recommend that the subgrade along Taylor Station Road between STA. 201+76 and STA. 204+00 be undercut below the design subgrade elevation to a depth of 12 inches and be replaced with Item 204 Granular Material Type B with geotextile installed at the bottom of the excavation. Alternatively, chemical stabilization with the use of lime can be used to stabilize the subgrade between the above proposed stations. Based on the test borings performed along Claycraft Road and results of the subgrade analysis, we do not anticipate any stabilization within this alignment will need to be specially called out in the roadway plans.

The actual depths and limits of undercutting should be determined by the Project Engineer in the field based on the results of proof-rolling and subgrade observations performed in accordance with ODOT CMS Item 204. Any areas that exhibit rutting, instability, or other indications of soft or loose soils should be over excavated and replaced in accordance with ODOT CMS Item 204. In addition, effective measures to promote drainage of groundwater and surface water should be incorporated into the design (i.e. grading of subgrade and surface, berms, ditches, etc.).

Where the proposed subgrade will consist of 3 feet or more of embankment fill, the roadway subgrade stabilization will not be required for pavements. The need for stabilization of subgrades to receive embankment fill would need to be further evaluated based on the condition of the exposed subgrade during construction.

Based on the results of our subgrade analyses, a CBR value of 5 is recommended for the design of the proposed reconstruction. The recommended CBR value assumes that the subgrade improvement/stabilization recommended in this report is performed.

Subgrade Exploration Report

Taylor Station & Claycraft Road Intersection Improvements ■ Gahanna, Ohio
December 8, 2021 ■ Terracon Project No. N4205153



General Subgrade Preparation

Subgrade preparation for the new pavement, and shoulder areas should be performed in accordance with ODOT CMS Items 203 and 204. Prior to subgrade preparation, perform clearing and grubbing, including removal of stumps and roots, in accordance with ODOT CMS Item 201. Remove existing pavement and base materials as well as other structures or obstructions, as necessary, in accordance with ODOT CMS Item 202. The pavement subgrade should be stripped of any topsoil, organics, or other deleterious or unsuitable materials.

Once the new pavement areas have been stripped, excavated to the design subgrade elevation or to the design undercut elevation (if applicable), the exposed subgrade should be proof-rolled with a heavy piece of construction equipment to verify stability is achieved. It should be noted that fill containing organic materials or other deleterious materials may be encountered at other locations or at lower depths within the pavement alignment that were not disclosed by the borings. The actual depths and limits of undercutting should be determined by the Geotechnical Engineer in the field based on visual observations.

Any fill placed to achieve the final grade of the roadway pavement should follow requirements of ODOT CMS Item 203 and compacted to the specified percentage of the maximum dry density provided by ODOT CMS Item 204. The fill materials should be relatively free of debris, organic materials, and any deleterious materials deemed by the Geotechnical Engineer. No frozen materials should be incorporated into the fill, and no pavement, utilities, or fill should be placed on top of frozen materials.

All potential imported fill materials should be identified and approved by the Geotechnical Engineer prior to placement. Approval requires that moisture-density relationship tests, hydrometer analysis, and Atterberg limits be determined for each fill material prior to their placement. No particle size larger than two inches in any direction should be placed as fill, and any particle size greater than 3-inches should be broken down to less than 2-inches or removed from the lift. Aggregate base and pavement construction must be performed in accordance with ODOT CMS 300 and 400.

Groundwater Considerations

Groundwater was not encountered in borings during drilling or immediately upon completion of drilling. However, trapped water infiltration or groundwater seepage and wet bottom conditions may be encountered in excavations during construction depending upon the excavation depths, especially after a period of heavy precipitation and depending on when the construction is performed. In such an event, sump and pumping methods or more rigorous methods may be required for temporary dewatering.

Subgrade Exploration Report

Taylor Station & Claycraft Road Intersection Improvements ■ Gahanna, Ohio
December 8, 2021 ■ Terracon Project No. N4205153



GENERAL COMMENTS

Terracon should be retained to review the final design plans and specifications, so comments can be made regarding interpretation and implementation of our geotechnical recommendations in the design and specifications. Terracon should also be retained to provide observation and testing services during grading, excavation, foundation construction and other earth-related construction phases of the project.

This report has been prepared to present the findings of our exploration and present our recommendations pertaining to proposed improvements. The analysis and recommendations presented in this report are based upon the data obtained from the borings performed at the indicated locations and from other information discussed in this report. This report does not reflect variations that may occur between borings, across the site, or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. If variations appear, we should be immediately notified so that further evaluation and supplemental recommendations can be provided.

Our Scope of Services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence or collaboration through this system are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third-party beneficiaries intended. Any third-party access to services or correspondence is solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly impact excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety, and cost estimating including, excavation support, and dewatering requirements/design are the responsibility of others. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.

ATTACHMENTS

SITE LOCATION AND EXPLORATION PLANS

Contents:

Site Location Plan

Exploration Plan

Note: All attachments are one page unless noted above.

SITE LOCATION

Taylor Station & Claycraft Intersection Roundabout ■ Gahanna, OH
September 1, 2021 ■ Terracon Project No. N4205153

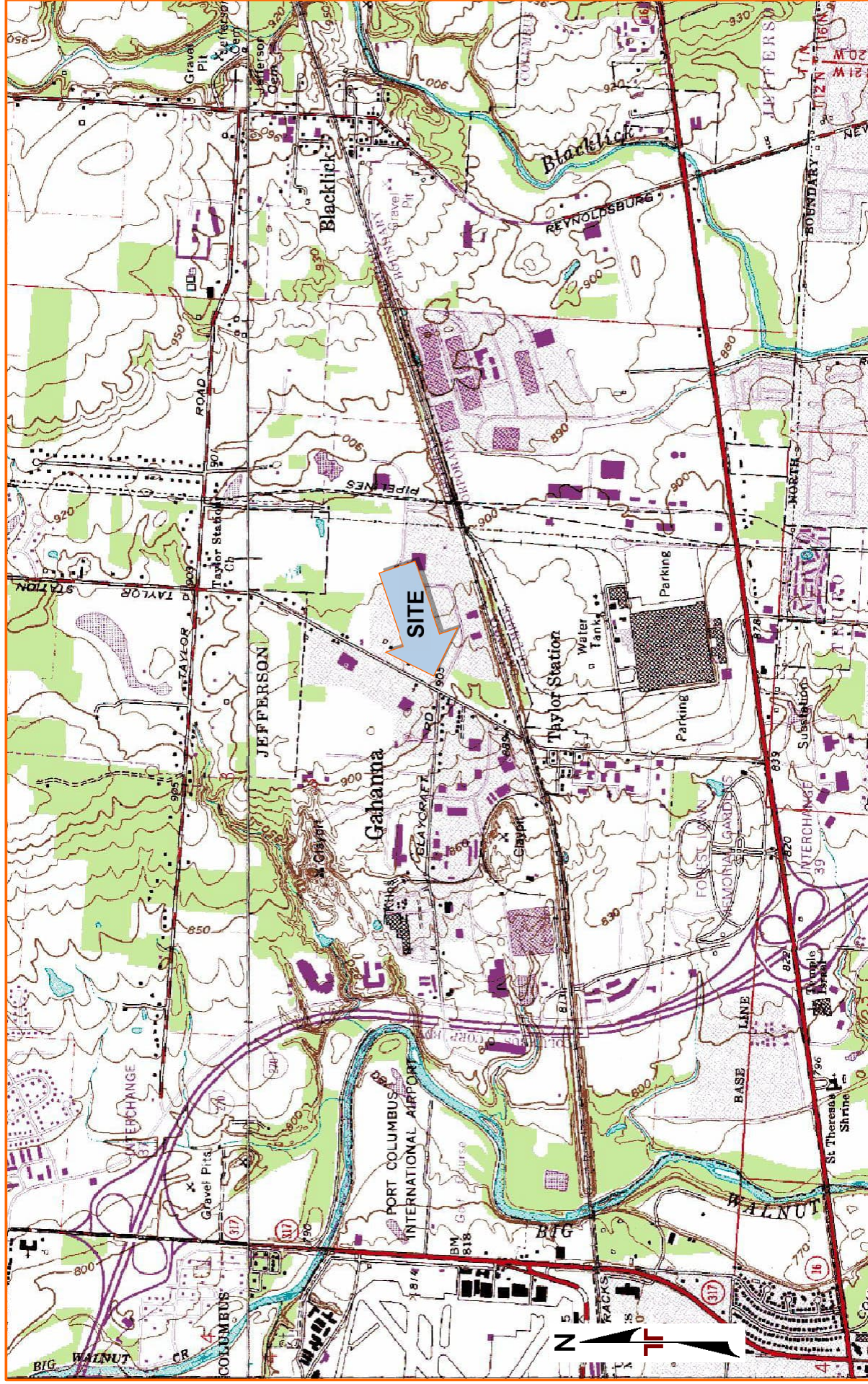


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT
INTENDED FOR CONSTRUCTION PURPOSES

TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
QUADRANGLES INCLUDE: NORTHEAST COLUMBUS, OH (1/1/1995), NEW ALBANY,
OH (1/1/1982), SOUTHEAST COLUMBUS, OH (1/1/1994) and REYNOLDSBURG, OH
(1/1/1994).

EXPLORATION PLAN

Taylor Station & Claycraft Intersection Roundabout ■ Gahanna, OH
December 3, 2021 ■ Terracon Project No. N4205153

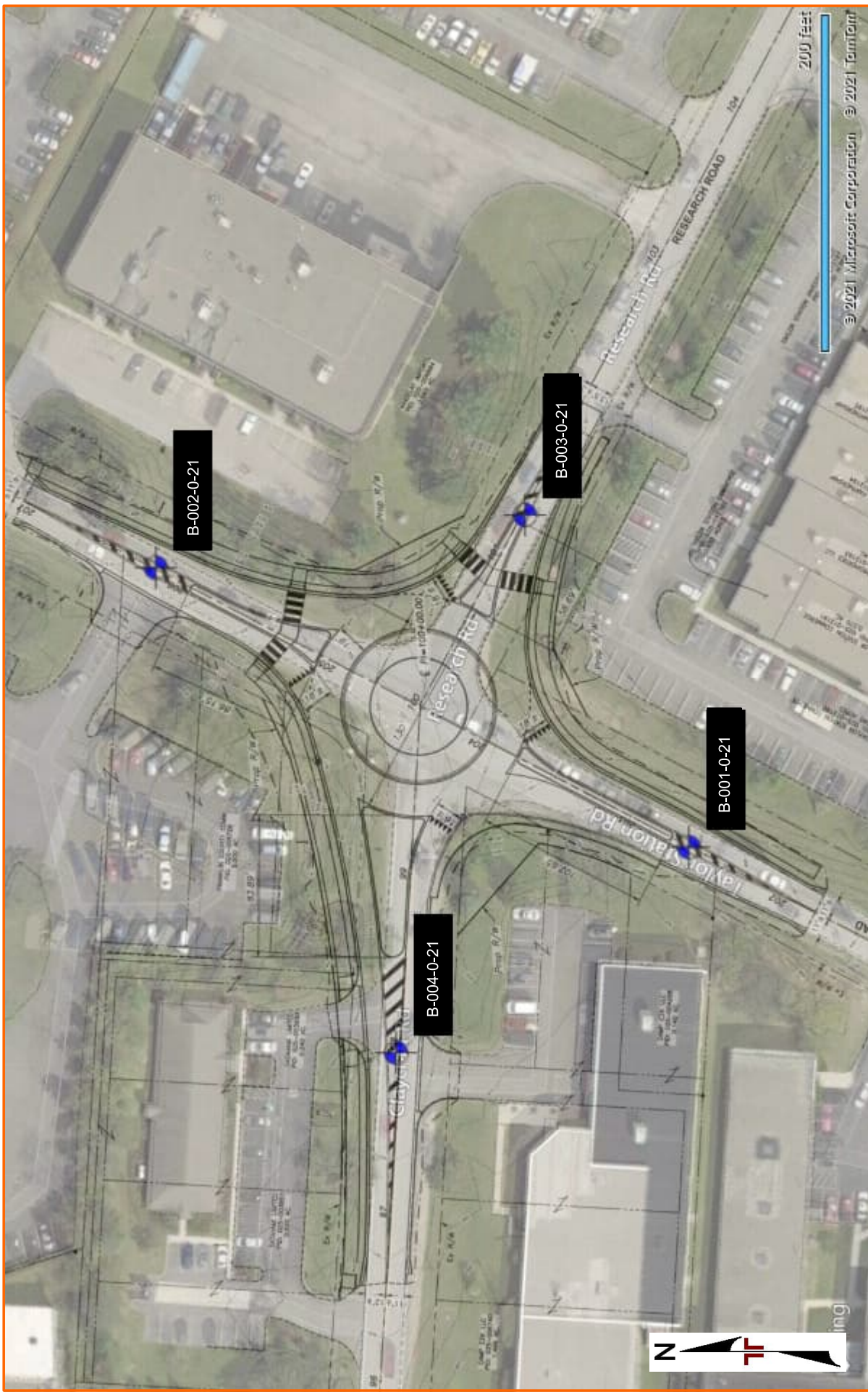


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT
INTENDED FOR CONSTRUCTION PURPOSES

AERIAL PHOTOGRAPHY PROVIDED BY
MICROSOFT BING MAPS

EXPLORATION AND TESTING RESULTS

Contents:

Boring Logs (B-001-0-21 through B-004-0-21)

Atterberg Limits

Grain Size Distribution

Sulfate Test Results (2 pages)

Note: All attachments are one page unless noted above.

PROJECT: TAYLOR ST. - CLAYCRAFT RD.			DRILLING FIRM / OPERATOR: ENVC / T.C.			DRILL RIG: GEOPROBE 7800			STATION / OFFSET: 202+62, CL						EXPLORATION ID							
TYPE: ROADWAY			SAMPLING FIRM / LOGGER: ENVC / T.C.			HAMMER: GEOPROBE AUTOMATIC			ALIGNMENT: TAYLOR ST. RD.						B-001-0-21							
PID: SFN:			DRILLING METHOD: 3.25" HSA			CALIBRATION DATE: 8/1/19			ELEVATION: 899.5 (MSL) EOB: 10.0 ft.						PAGE							
START: 5/7/21 END: 5/7/21			SAMPLING METHOD: SPT			ENERGY RATIO (%): 90*			LAT / LONG: 39.992062, -82.840188						1 OF 1							
MATERIAL DESCRIPTION AND NOTES			ELEV.		DEPTHS		SPT/ RQD	N ₆₀	REC SAMPLE (%)	HP (tsf)	GRADATION (%)				ATTERBERG		ODOT CLASS (GI)	HOLE SEALED				
									ID		GR	CS	FS	SI	CL	LL	PL	PI	WC			
APSHALT [9"] AGGREGATE BASE [10"] STIFF TO VERY STIFF, BROWN, SILTY CLAY, TRACE TO LITTLE FINE TO COARSE SAND, TRACE TO LITTLE FINE TO COARSE GRAVEL, MOIST TO DAMP			899.5		1		3															
			898.8		2		3	11	67	1.50	14	9	12	32	33	33	16	17	18	A-6b (9)		
			897.9		3		3	4														
					4		6	24	78	3.00	-	-	-	-	-	-	-	-	-	15	A-6b (V)	
					5		10															
					6		3	23	78	2.50	-	-	-	-	-	-	-	-	-	15	A-6b (V)	
					7		6	9														
					8		4	15	45	100	SS-4	3.50	-	-	-	-	-	-	-	13	A-6b (V)	
					9		15															
					10		4	6	24	100	SS-5	3.50	-	-	-	-	-	-	-	11	A-6b (V)	
			889.5		EOB		10															

NOTES: NO FREE WATER OBSERVED WHILE DRILLING
ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH BENTONITE GROUT

PROJECT: TAYLOR ST. - CLAYCRAFT RD.			DRILLING FIRM / OPERATOR: ENVC / T.C.			DRILL RIG: GEOPROBE 7800			STATION / OFFSET: 206+16, CL			EXPLORATION ID																															
TYPE: ROADWAY			SAMPLING FIRM / LOGGER: ENVC / T.C.			HAMMER: GEOPROBE AUTOMATIC			ALIGNMENT: TAYLOR ST. RD.			B-002-0-21																															
PID: SFN:			DRILLING METHOD: 3.25" HSA			CALIBRATION DATE: 8/1/19			ELEVATION: 909.5 (MSL) EOB: 10.0 ft.			PAGE																															
START: 5/7/21 END: 5/7/21			SAMPLING METHOD: SPT			ENERGY RATIO (%): 90*			LAT / LONG: 39.992919, -82.839627			1 OF 1																															
MATERIAL DESCRIPTION AND NOTES						ELEV.		DEPTHS		SPT/ RQD		REC SAMPLE ID		HP (tsf)		GRADATION (%)						ATTERBERG						ODOT CLASS (GI)		HOLE SEALED													
						909.5												GR		CS		FS		SI		CL		LL		PL		PI		WC									
APSHALT [10"]						908.7		1		4																																	
AGGREGATE BASE [5.5"]						908.2		2		2		6		SS-1		2.50																											
VERY STIFF TO HARD, BROWN, SILT AND CLAY, TRACE TO LITTLE FINE TO COARSE SAND, TRACE TO LITTLE FINE TO COARSE GRAVEL, DAMP TO MOIST								3		4		9		SS-2		3.50																											
								4		9		27		33		3.50																											
								5		6		26		100		4.50																											
								6																																			
								7																																			
								8								4		32		89		4.50																					
								9								7		14																									
								10								8		39		100		3.50																					
								EOB				899.5				13																											

PROJECT: TAYLOR ST. - CLAYCRAFT RD.			DRILLING FIRM / OPERATOR: ENVC / T.C.			DRILL RIG: GEOPROBE 7800			STATION / OFFSET: 97+95, CL						EXPLORATION ID													
TYPE: ROADWAY			SAMPLING FIRM / LOGGER: ENVC / T.C.			HAMMER: GEOPROBE AUTOMATIC			ALIGNMENT: CLAYCRAFT RD.						B-004-0-21													
PID: SFN: 5/7/21			DRILLING METHOD: 3.25" HSA			CALIBRATION DATE: 8/1/19			ELEVATION: 903.0 (MSL) EOB: 10.0 ft.						PAGE													
START: 5/7/21 END: 5/7/21			SAMPLING METHOD: SPT			ENERGY RATIO (%): 90*			LAT / LONG: 39.992594, -82.840716						1 OF 1													
MATERIAL DESCRIPTION AND NOTES			ELEV.		DEPTHS		SPT/ RQD	N ₆₀	REC SAMPLE (%)	HP (tsf)	GRADATION (%)				ATTERBERG		ODOT CLASS (GI)	HOLE SEALED										
			903.0								GR	CS	FS	SI	CL	LL	PL	PI	WC									
APSHALT [10"] AGGREGATE BASE [10"] VERY STIFF, MOTTLED BROWN TO GRAY, CLAY, TRACE FINE TO COARSE SAND, TRACE FINE GRAVEL, MOIST VERY STIFF TO HARD, BROWN, SILTY CLAY, TRACE TO LITTLE FINE TO COARSE SAND, TRACE TO LITTLE FINE GRAVEL, MOIST TO DAMP			902.2		1		3																					
			901.4		2		4	17	78	2.00																		
			900.5		3		5	21	100	4.50																		
					4		5	9																				
					5		6	23	78	4.50																		
					6																							
					7		5	7	100	2.50																		
					8		7	11																				
					9		6	9																				
					10		12	32	100	3.25																		
		EOB																										
		893.0																										

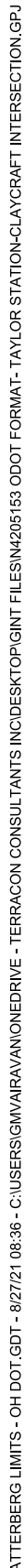
NOTES: NO FREE WATER OBSERVED WHILE DRILLING
ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH BENTONITE GROUT



PROJECT TAYLOR ST. & CLAYCRAFT RD.

PID

OGE NUMBER N4205153

PROJECT TYPE SUBGRADE[illegible]



OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF GEOTECHNICAL ENGINEERING

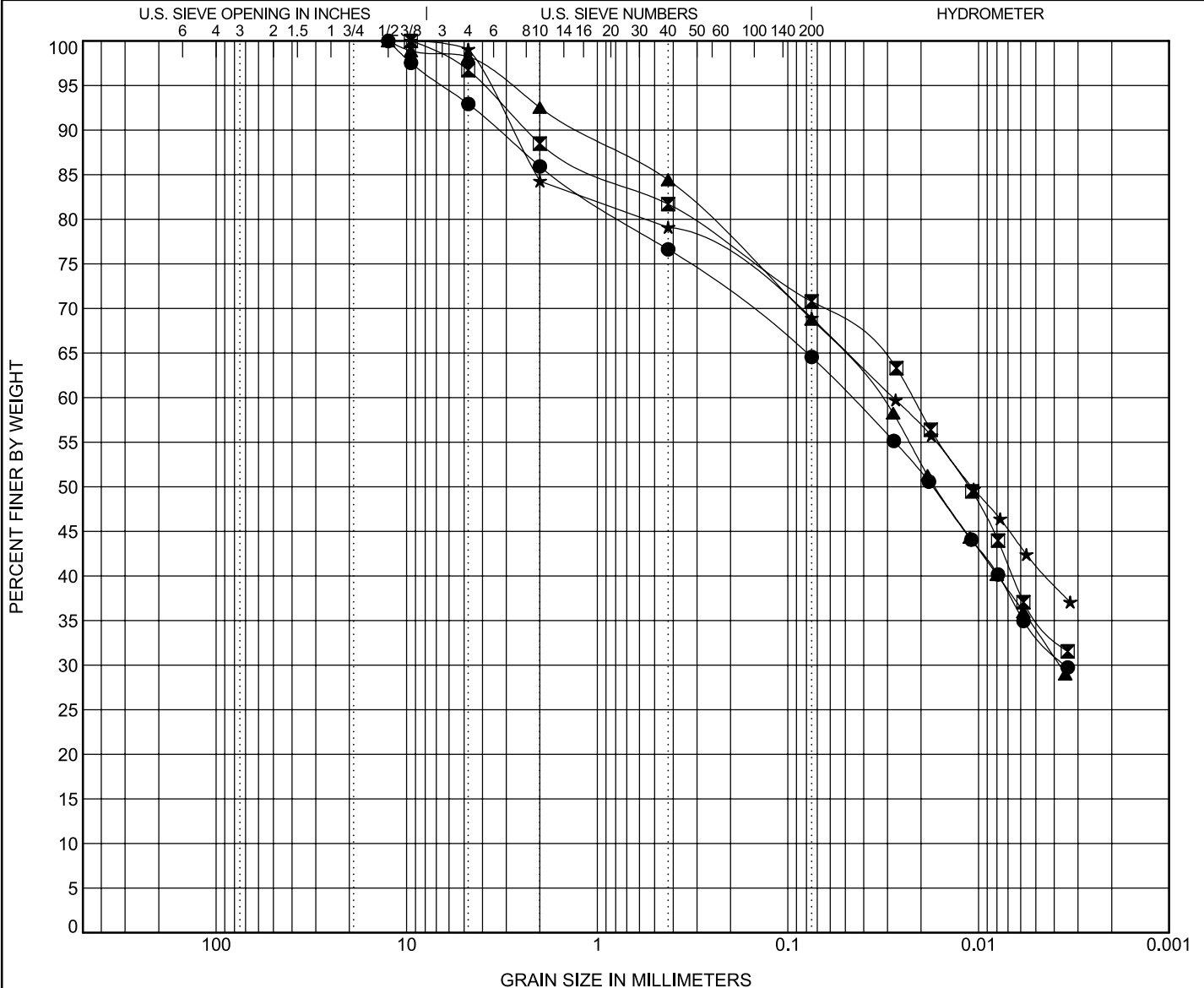
GRAIN SIZE DISTRIBUTION

PROJECT TAYLOR ST. & CLAYCRAFT RD.

PID

OGE NUMBER N4205153

PROJECT TYPE SUBGRADE



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification		ODOT (Modified AASHTO) ~ USCS Classification								LL	PL	PI
●	B-001-0-21 1.0	A-6b ~ SANDY LEAN CLAY(CL)								33	16	17
■	B-002-0-21 2.5	A-6a ~ LEAN CLAY with SAND(CL)								30	16	14
▲	B-003-0-21 1.0	A-6a ~ SANDY LEAN CLAY(CL)								28	14	14
★	B-004-0-21 1.0	A-7-6 ~ SANDY LEAN CLAY(CL)								41	15	26
Specimen Identification		D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-001-0-21 1.0	3.306	0.017	0.003		14	9	12	32	33		
■	B-002-0-21 2.5	2.344	0.011			11	7	11	35	36		
▲	B-003-0-21 1.0	1.234	0.017	0.004		7	8	16	35	34		
★	B-004-0-21 1.0	2.794	0.011			16	5	10	28	41		

BOWSER-MORNER, INC.

Delivery Address: 4518 Taylorsville Road • Dayton, Ohio 45424 **Mailing Address:** P. O. Box 51 • Dayton, Ohio 45401

AASHTO/ISO 17025 Accredited • USACE Validated LABORATORY REPORT

Report To: Terracon
Attn: Aaron Martin
800 Morrison Rd.
Columbus, OH 43230

Report Date: July 7, 2021
Job No.: 201410
Report No.: 431927
No. of Pages: 2

Report On: Laboratory Determination of Sulfate Content in Soils – Turbidimetric Method
Project: Taylor Station & Claycraft Intersection Roundabout
Client Project No. N4205153

On June 28, 2021, three soil samples were submitted for determination of sulfate content in soils for the above referenced project. Testing was performed as specified by the client and in accordance with ODOT Supplement 1122, "Determining Sulfate Content in Soils by Turbidimetric Method".

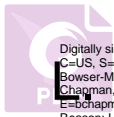
Results are presented in the attached table.

Should you have any questions, or if we may be of further service, please contact me at (937) 236-8805, extension 269.

Respectfully submitted,
BOWSER-MORNER, INC.

BLC/hr
431927
1-File
1-samartin@terracon.com

**Brooke
Chapman**
Brooke L. Chapman, Assistant Manager
Construction Materials and
Geotechnical Laboratories



Digitally signed by Brooke L. Chapman DN:
c=US, s=Ohio, L=Dayton, O=
Bowser-Morner, Inc., CN=Brooke L.
Chapman,
E=bchapman@bowser-morner.com
Reason: I am the author of this document
Location: your signing location here
Date: 2021.07.07 11:47:03 -0400

Report To: Terracon

Job No.: 201410

Project: Taylor Station & Claycraft Intersection Roundabout

Report No.: 431927

Client WO# N4205153

Date Received: 6/28/2021

Boring Number	Sample Depth (ft)	Soaking Time (hr)	Dilution Ratio	Replicate Sample Readings			Average Reading	Sulfate Content (ppm)
				1	2	3		
B-001-0-21	2.5-4.0	19.0	20	8.1	8.1	7.9	8.0	161
B-003-0-21	2.5-4.0	19.0	20	20.5	15.5	18.1	18.0	361
B-004-0-21	2.5-4.0	19.0	20	17.2	11.4	10.4	13.0	260

GB-1 SUBGRADE ANALYSIS

Contents:

GB-1 Subgrade Analysis (5 pages)

Note: All attachments are one page unless noted above.



OHIO DEPARTMENT OF TRANSPORTATION

OFFICE OF GEOTECHNICAL ENGINEERING

**PLAN SUBGRADES
Geotechnical Bulletin GB1**

Taylor Station & Claycraft Road Intersection Improvements

Terracon Consultants, Inc.

Prepared By: Bijoy Halder
Date prepared: Tuesday, December 7, 2021

Terracon Consultants, Inc.
800 Morrison Road
Columbus, OH

614-328-5192
bijoy.halder@terracon.com

NO. OF BORINGS: 4

#	Boring ID	Alignment	Station	Offset	Dir	Drill Rig	ER	Boring EL.	Proposed Subgrade EL	Cut Fill
1	B-001-0-21	Taylor St. Rd.	202+62	0	CL	Geoprobe 7800	90	899.5	900.0	0.5 F
2	B-002-0-21	Taylor St. Rd.	206+16	0	CL	Geoprobe 7800	90	909.5	907.5	2.0 C
3	B-003-0-21	Research Rd.	101+27	0	CL	Geoprobe 7800	90	902.5	903.5	1.0 F
4	B-004-0-21	Claycraft Rd.	97+95	0	CL	Geoprobe 7800	90	903.0	903.0	0.0



#	Boring	Sample	Sample Depth		Subgrade Depth		Standard Penetration		HP (tsf)	Physical Characteristics						Moisture		Ohio DOT		Sulfate Content (ppm)	Problem		Excavate and Replace (Item 204)		Recommendation (Enter depth in inches)	
			From	To	From	To	N ₆₀	N _{60L}		LL	PL	PI	% Silt	% Clay	P200	M _c	M _{OPT}	Class	GI		Unsuitable	Unstable	Unsuitable	Unstable		
1	B 001-0 21	1	1.0	2.5	1.5	3.0	11		1.5	36	16	20	32	33	65	18	16	A-6B	10							
		2	2.5	4.0	3.0	4.5	24		3							15	16	A-6B	16	161						
		3	4.0	5.5	4.5	6.0	23		2.5							15	16	A-6B	16							
		4	7.0	8.5	7.5	9.0	45	11	3.5							13	16	A-6B								
2	B 002-0 21	1	1.0	2.5	-1.0	0.5	6		2.5							26	14	A-6a	10				18"			
		2	2.5	4.0	0.5	2.0	27		3.5	30	16	14	35	36	71	15	14	A-6a	9							
		3	4.0	5.5	2.0	3.5	26		4.5							13	14	A-6a	10							
		4	7.0	8.5	5.0	6.5	32	6	4.5							14	14	A-6a	10							
3	B 003-0 21	1	1.0	2.5	2.0	3.5	21		3.5	28	14	14	35	34	69	16	16	A-6b	8							
		2	2.5	4.0	3.5	5.0	21		2.5							17	14	A-6a	10	361						
		3	4.0	5.5	5.0	6.5	17		3.25							14	14	A-6a	10							
		4	7.0	8.5	8.0	9.5	26	17	4.25							12	14	A-6a								
4	B 004-0 21	1	1.0	2.5	1.0	2.5	17		2	41	15	26	28	41	69	23	18	A-7-6	13							
		2	2.5	4.0	2.5	4.0	21		4.5							15	16	A-6B	16	260						
		3	4.0	5.5	4.0	5.5	23		4.5							15	16	A-6B	16							
		4	7.0	8.5	7.0	8.5	27	17	2.5							13	16	A-6B								

PID:
County-Route-Section: 0

No. of Borings: 4

Geotechnical Consultant: Terracon Consultants, Inc.

Prepared By: Bijoy Halder

Date prepared: 12/7/2021

Chemical Stabilization Options		
320	Rubblize & Roll	Option
206	Cement Stabilization	Option
	Lime Stabilization	Option
206	Depth	12"

Excavate and Replace Stabilization Options	
Global Geotextile Average(N60L): Average(HP):	12" 0"
Global Geogrid Average(N60L): Average(HP):	0" 0"

Design CBR	5
-----------------------	----------

% Samples within 6 feet of subgrade			
$N_{60} \leq 5$	0%	$HP \leq 0.5$	0%
$N_{60} < 12$	15%	$0.5 < HP \leq 1$	0%
$12 \leq N_{60} < 15$	0%	$1 < HP \leq 2$	15%
$N_{60} \geq 20$	69%	$HP > 2$	85%
M+	15%		
Rock	0%		
Unsuitable	0%		

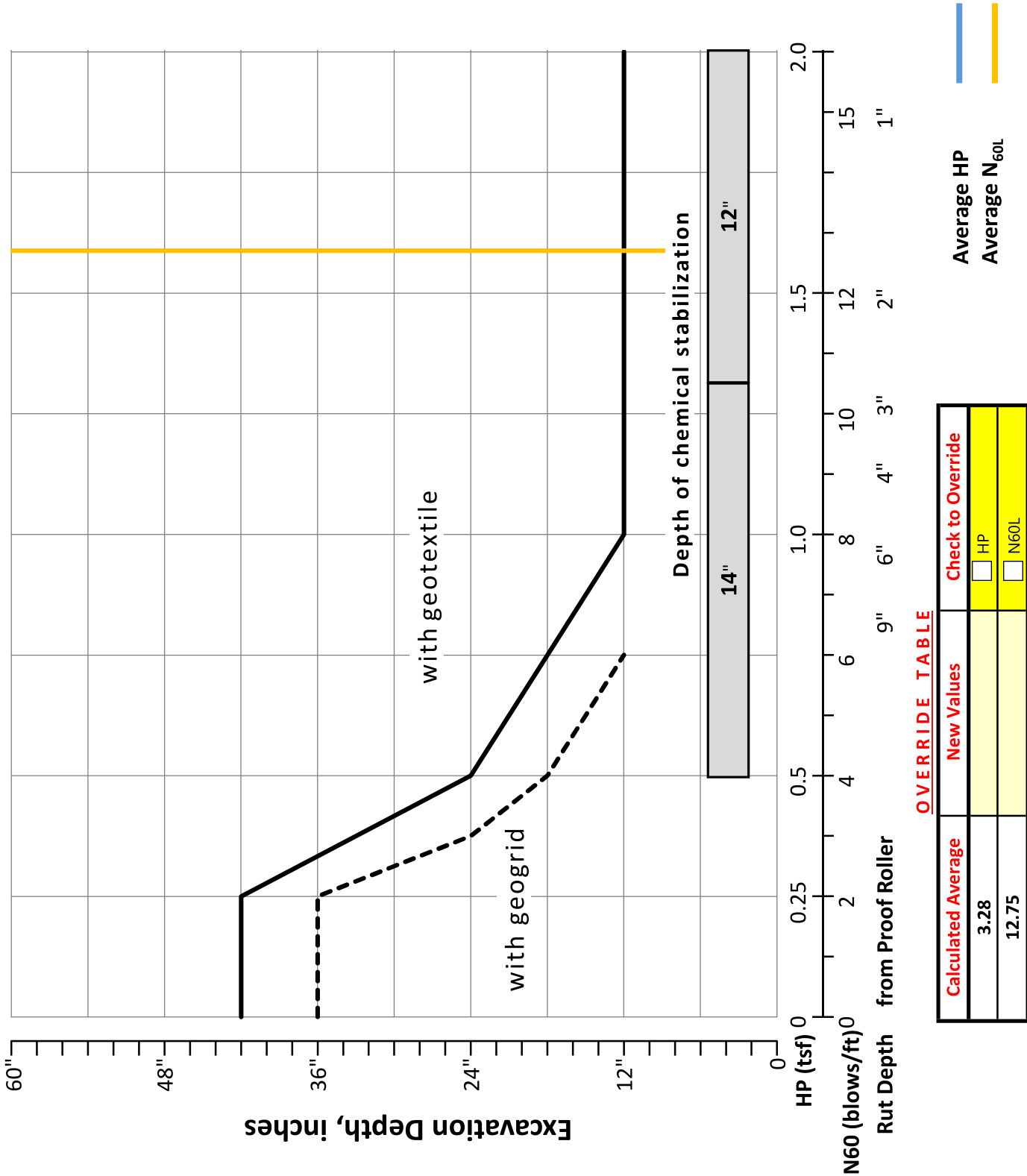
Excavate and Replace at Surface	
Average	0"
Maximum	0"
Minimum	0"

% Proposed Subgrade Surface	
Unstable & Unsuitable	43%
Unstable	43%
Unsuitable	0%

	N_{60}	N_{60L}	HP	LL	PL	PI	Silt	Clay	P 200	M_C	M_{OPT}	GI
Average	23	13	3.28	34	15	19	33	36	69	16	15	12
Maximum	45	17	4.50	41	16	26	35	41	71	26	18	16
Minimum	6	6	1.50	28	14	14	28	33	65	12	14	8

Classification Counts by Sample																			
ODOT Class	Rock	A-1-a	A-1-b	A-2-4	A-2-5	A-2-6	A-2-7	A-3	A-3a	A-4a	A-4b	A-5	A-6a	A-6b	A-7-5	A-7-6	A-8a	A-8b	Totals
Count	0	0	0	0	0	0	0	0	0	0	0	0	7	8	0	1	0	0	16
Percent	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	44%	50%	0%	6%	0%	0%	100%
% Rock Granular Cohesive	0%	0%									100%							100%	
Surface Class Count	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	1	0	0	7
Surface Class Percent	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	43%	43%	0%	14%	0%	0%	100%

GB1 Figure B – Subgrade Stabilization



SUPPORTING INFORMATION

Contents:

Unified Soil Classification System

ODOT Quick Reference for Visual Description of Soils

ODOT Classification of Soils

Site Plan

Note: All attachments are one page unless noted above.

APPENDIX A.1 - ODOT Quick Reference for Visual Description of Soils

1) STRENGTH OF SOIL:

Non-Cohesive (granular) Soils - Compactness	
Description	Blows Per Ft.
Very Loose	≤ 4
Loose	5 – 10
Medium Dense	11 – 30
Dense	31 – 50
Very Dense	> 50

2) COLOR :

If a color is a uniform color throughout, the term is single, modified by an adjective such as light or dark. If the predominate color is shaded by a secondary color, the secondary color precedes the primary color. If two major and distinct colors are swirled throughout the soil, the colors are modified by the term “mottled”

3) PRIMARY COMPONENT

Use **DESCRIPTION** from ODOT Soil Classification Chart on Back

Cohesive (fine grained) Soils - Consistency

Description	Qu (TSF)	Blows Per Ft.	Hand Manipulation
Very Soft	<0.25	<2	Easily penetrates 2” by fist
Soft	0.25-0.5	2 - 4	Easily penetrates 2” by thumb
Medium Stiff	0.5-1.0	5 - 8	Penetrates by thumb with moderate effort
Stiff	1.0-2.0	9 - 15	Readily indents by thumb, but not penetrate
Very Stiff	2.0-4.0	16 - 30	Readily indents by thumbnail
Hard	>4.0	>30	Indent with difficulty by thumbnail

4) COMPONENT MODIFIERS:

Description	Percentage By Weight
Trace	0% - 10%
Little	10% - 20%
Some	20% - 35%
“And”	35% -50%

5) Soil Organic Content

Description	% by Weight
Slightly Organic	2% - 4%
Moderately Organic	4% - 10%
Highly Organic	> 10%

6) Relative Visual Moisture





















Description	Criteria	
	Cohesive Soil	Non-cohesive Soils
Dry	Powdery; Cannot be rolled; Water content well below the plastic limit	No moisture present
Damp	Leaves very little moisture when pressed between fingers; Crumbles at or before rolled to $\frac{1}{8}$ ”; Water content below plastic limit	Internal moisture, but no to little surface moisture
Moist	Leaves small amounts of moisture when pressed between fingers; Rolled to $\frac{1}{8}$ ” or smaller before crumbling; Water content above plastic limit to -3% of the liquid limit	Free water on surface, moist (shiny) appearance
Wet	Very mushy; Rolled multiple times to $\frac{1}{8}$ ” or smaller before crumbles; Near or above the liquid limit	Voids filled with free water, can be poured from split spoon.



CLASSIFICATION OF SOILS

Ohio Department of Transportation

(The classification of a soil is found by proceeding from top to bottom of the chart.
The first classification that the test data fits is the correct classification.)

SYMBOL	DESCRIPTION	Classification		LL _O /LL x 100*	% Pass #40	% Pass #200	Liquid Limit (LL)	Plastic Index (PI)	Group Index Max.	REMARKS
		AASHTO	OHIO							
	Gravel and/or Stone Fragments	A-1-a			30 Max.	15 Max.		6 Max.	0	Min. of 50% combined gravel, cobble and boulder sizes
	Gravel and/or Stone Fragments with Sand	A-1-b			50 Max.	25 Max.		6 Max.	0	
	Fine Sand	A-3			51 Min.	10 Max.	NON-PLASTIC		0	
	Coarse and Fine Sand	--	A-3a			35 Max.		6 Max.	0	Min. of 50% combined coarse and fine sand sizes
	Gravel and/or Stone Fragments with Sand and Silt	A-2-4				35 Max.	40 Max.	10 Max.	0	
		A-2-5			41 Min.					
	Gravel and/or Stone Fragments with Sand, Silt and Clay	A-2-6				35 Max.	40 Max.	11 Min.	4	
		A-2-7			41 Min.					
	Sandy Silt	A-4	A-4a	75 Min.		36 Min.	40 Max.	10 Max.	8	Less than 50% silt sizes
	Silt	A-4	A-4b	75 Min.		50 Min.	40 Max.	10 Max.	8	50% or more silt sizes
	Elastic Silt and Clay	A-5		75 Min.		36 Min.	41 Min.	10 Max.	12	
	Silt and Clay	A-6	A-6a	75 Min.		36 Min.	40 Max.	11 - 15	10	
	Silty Clay	A-6	A-6b	75 Min.		36 Min.	40 Max.	16 Min.	16	
	Elastic Clay	A-7-5		75 Min.		36 Min.	41 Min.	≤ LL-30	20	
	Clay	A-7-6		75 Min.		36 Min.	41 Min.	> LL-30	20	
	Organic Silt	A-8	A-8a	74 Max.		36 Min.				W/o organics would classify as A-4a or A-4b
	Organic Clay	A-8	A-8b	74 Max.		36 Min.				W/o organics would classify as A-5, A-6a, A-6b, A-7-5 or A-7-6
MATERIAL CLASSIFIED BY VISUAL INSPECTION										
	Sod and Topsoil			Uncontrolled Fill (Describe)			Bouldery Zone		Peat	
	Pavement or Base									

* Only perform the oven-dried liquid limit test and this calculation if organic material is present in the sample.

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests ^A					Soil Classification	
					Group Symbol	Group Name ^B
Coarse-Grained Soils: More than 50% retained on No. 200 sieve	Gravels: More than 50% of coarse fraction retained on No. 4 sieve	Clean Gravels: Less than 5% fines ^C	$Cu \geq 4$ and $1 \leq Cc \leq 3$ ^E	GW	Well-graded gravel ^F	
			$Cu < 4$ and/or $[Cc < 1 \text{ or } Cc > 3.0]$ ^E	GP	Poorly graded gravel ^F	
		Gravels with Fines: More than 12% fines ^C	Fines classify as ML or MH	GM	Silty gravel ^{F, G, H}	
			Fines classify as CL or CH	GC	Clayey gravel ^{F, G, H}	
	Sands: 50% or more of coarse fraction passes No. 4 sieve	Clean Sands: Less than 5% fines ^D	$Cu \geq 6$ and $1 \leq Cc \leq 3$ ^E	SW	Well-graded sand ^I	
			$Cu < 6$ and/or $[Cc < 1 \text{ or } Cc > 3.0]$ ^E	SP	Poorly graded sand ^I	
		Sands with Fines: More than 12% fines ^D	Fines classify as ML or MH	SM	Silty sand ^{G, H, I}	
			Fines classify as CL or CH	SC	Clayey sand ^{G, H, I}	
Fine-Grained Soils: 50% or more passes the No. 200 sieve	Silts and Clays: Liquid limit less than 50	Inorganic:	$PI > 7$ and plots on or above “A”	CL	Lean clay ^{K, L, M}	
			$PI < 4$ or plots below “A” line ^J	ML	Silt ^{K, L, M}	
		Organic:	Liquid limit - oven dried	< 0.75	OL	Organic clay ^{K, L, M, N}
			Liquid limit - not dried			Organic silt ^{K, L, M, O}
	Silts and Clays: Liquid limit 50 or more	Inorganic:	PI plots on or above “A” line	CH	Fat clay ^{K, L, M}	
			PI plots below “A” line	MH	Elastic Silt ^{K, L, M}	
		Organic:	Liquid limit - oven dried	< 0.75	OH	Organic clay ^{K, L, M, P}
			Liquid limit - not dried			Organic silt ^{K, L, M, Q}
Highly organic soils:	Primarily organic matter, dark in color, and organic odor			PT	Peat	

^A Based on the material passing the 3-inch (75-mm) sieve.

^B If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

^C Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

^D Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.

$$Cu = D_{60}/D_{10} \quad Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$$

^F If soil contains $\geq 15\%$ sand, add "with sand" to group name.

^G If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

^H If fines are organic, add "with organic fines" to group name.

^I If soil contains $\geq 15\%$ gravel, add "with gravel" to group name.

^J If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

^K If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

^L If soil contains $\geq 30\%$ plus No. 200 predominantly sand, add "sandy" to group name.

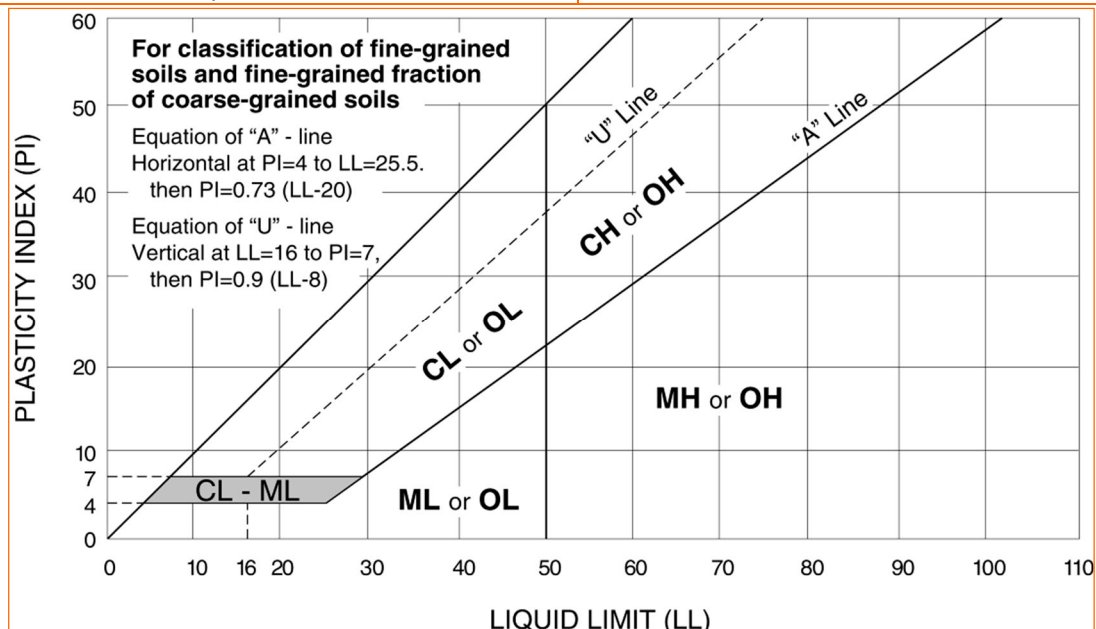
^M If soil contains $\geq 30\%$ plus No. 200, predominantly gravel, add "gravelly" to group name.

^N $PI \geq 4$ and plots on or above "A" line.

^O $PI < 4$ or plots below "A" line.

^P PI plots on or above "A" line.

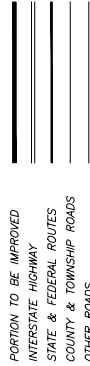
^Q PI plots below "A" line.



**CITY OF GAHANNA
JEFFERSON TOWNSHIP
FRANKLIN COUNTY**



SCALE: 1" = 1/2 MILE



CURRENT ADT (2021)
DESIGN YEAR ADT (2041)
DESIGN SPEED
LEGAL SPEED
DESIGN FUNCTIONAL CLASSIFICATION:

3,766
5,596
35 MPH
35 MPH
MAJOR C

2,999
4,456
25 MPH
25 MPH
LOCAL

TRAFFIC CONTROL PLAN

1	TITLE SHEET
2-4	SCHEMATIC PLAN
5-6	TYPICAL SECTIONS
7	LEGEND
8	MATERIAL PLACEMENT DETAIL
9	MAINTENANCE OF TRAFFIC
10-15	PLAN & PROFILES
16	INTERSECTION GRADING DETAILS
17-18	TRAFFIC CONTROL PLAN

Reconstruction of the Claycraft Road & Taylor Station intersection as a roundabout including asphalt paving, curbs, landscape, storm sewer, and street lighting.

Project earth disturbed area:	XX.XXX ACRES
Estimated contractor earth disturbed area:	XX.XXX ACRES
Notice of intent earth disturbed area:	XX.XXX ACRES

The City Of Columbus Construction and Materials Specifications (CMSC), 2018 edition including all revisions and supplements in effect at the time of plan approvals, shall govern all construction items that are a part of this plan unless noted otherwise

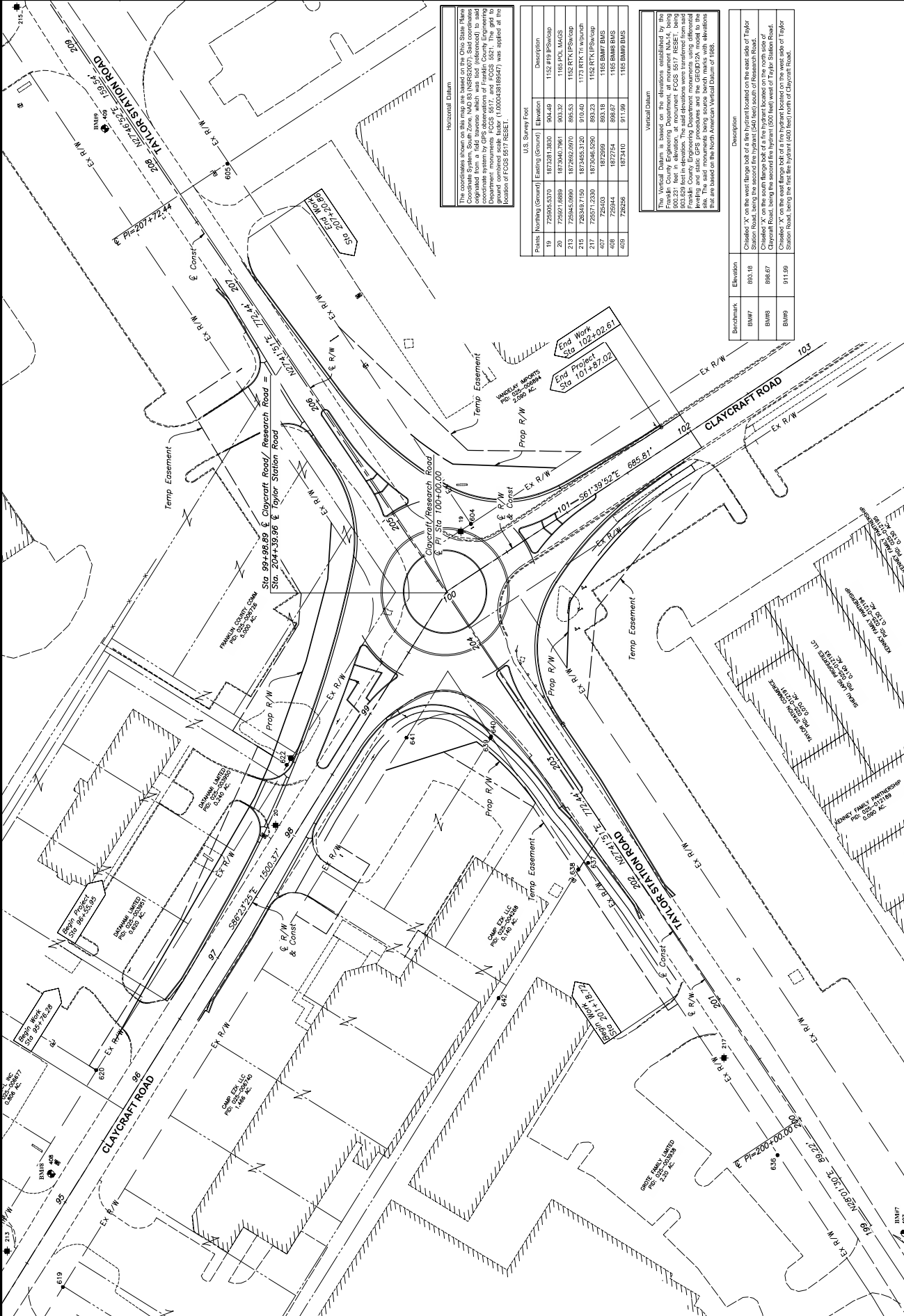
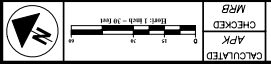
EMH7

PREPARED BY:

Event, Management, Hardware & Waste, Inc.
 Engineers • Surveyors • Planners • Architects
 880 New Albany Road, Columbus, OH 43004
 Phone: 614-778-6992 Fax: 614-778-6649



Schematic Plan



U.S. Survey Foot			Description
Points	Northing	Eastng	Elevation
19	725006.5370	167281.3630	904.49
			1152.419 PHSWdp
20	725021.0889	167040.7961	895.53
			1162.103 MAGS
21	725045.0980	1672652.0970	903.52
			1162.875 PRCp
215	725040.7149	1672455.3120	910.40
			1173.107 KTK in rdway
216	725071.2339	1672546.5290	903.25
			1162.875 PHSWdp
507	725403	1672299	893.18
			1162.8497 BMS
405	726044	1672754	896.07
			1163.815 BMS
408	726266	1673410	911.99
			1163.815 BMS

Vertical Datum

The Vertical Datum is based on the elevations established by the Franklin County Engineering Department, at monument M-4-4, being 900.231 feet in elevation, at monument FCGS 5517 RESET, being 903.628 feet in elevation. The said elevations were transferred from Franklin County Engineering Department monuments using differential leveling and static GPS procedures and the GQ1D12A model to the monument elevations. The monument elevations that are based on the North American Vertical Datum of 1988.

Benchmark	Elevation	Description
BM#7	893.18	Childs' "X" on the west flange bolt of a fire hydrant located on the east side of Taylor Station Road, being the second fire hydrant (540 feet) south of Research Road.
BM#8	898.67	Childs' "X" on the south flange bolt of a fire hydrant located on the north side of Canyon Road, being the second fire hydrant (500 feet) west of Taylor Station Road.
BM#9	911.99	Childs' "X" on the east flange bolt of a fire hydrant located on the east side of Taylor Station Road, being the first fire hydrant (400 feet) north of Canyon Rd.

Horizontal Datum

The coordinates shown on this map are based on the Ohio State Plane Coordinate System, South Zone, NAD 83 (NRSR2007). Said coordinates originated from a field traverse, which was tied (referenced) to said coordinate system by GPS observations of Franklin County Engineering Department monuments. FCGS 5517, and FCGS 5521. The grid to the ground combined scale factor (1.0004038186947) was applied at the location of FCGS 5517 RESET.

Vertical Datum

The Vertical Datum is based on the elevations established by the Franklin County Engineering Department, at monument NA-14, being 900.231' feet in elevation, at monument FOGS 3517 RESE1, being 903.629' feet in elevation. The said elevations were transferred from said Franklin County Engineering Department monuments using differential leveling and static GPS procedures and the GCEPD12A model to the site. The said monuments being source bench marks with elevations that are based on the North American Vertical Datum of 1988.

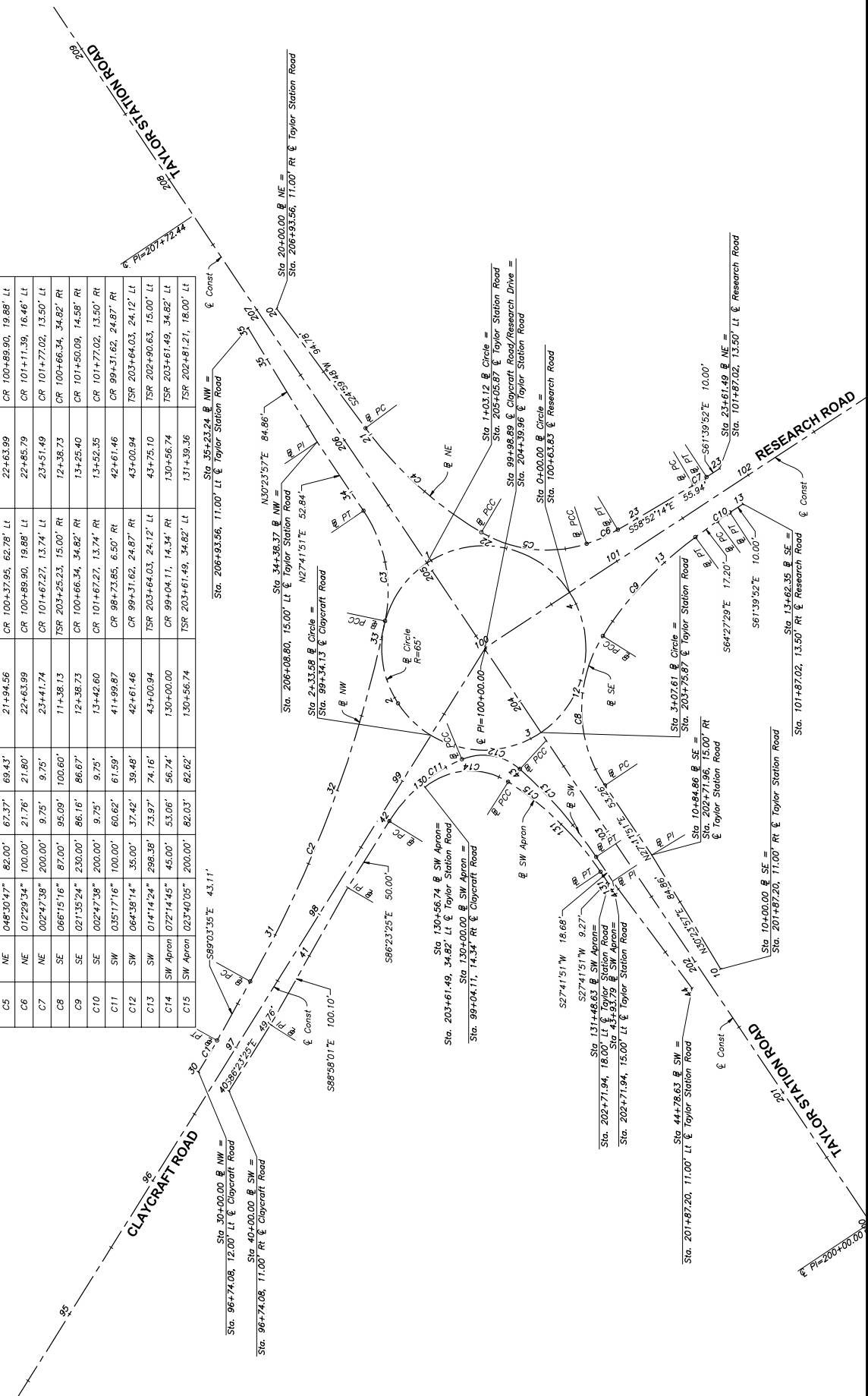
Desc

on the south flange bolt of a fire hydrant located on the north side of
being the second fire hydrant (500 feet) west of Taylor Station Road.
on the east flange bolt of a fire hydrant located on the west side of Taylor
being the first fire hydrant (400 feet) north of Claycraft Road.

PRELIMINARY - NOT FOR CONSTRUCTION

Baseline Curve Data (Edge of Pavement)

Curve #	Name	Δ	Radius	Tangent	Length	Begin Curve Station	Reference Station & Offset	End Curve Station	Reference Station & Offset
C1	NW	002°40'10"	500.00'	23.29'	23.29'	30+00.00	CR 96+74.08, 12.00' Lt	30+23.29	CR 96+97.37, 12.54' Lt
C2	NW	017°36'30"	800.00'	244.89'	245.86'	30+66.40	CR 97+40.43, 14.55' Lt	33+12.26	TSR 204+90.18, 42.67' Lt
C3	NW	045°38'04"	92.00'	71.35'	73.28'	33+12.26	TSR 204+90.18, 42.67' Lt	33+85.53	TSR 205+55.95, 15.00' Lt
C4	NE	022°52'05"	250.00'	99.12'	99.78'	20+94.78	CR 205+98.89, 15.47' Rt	21+94.56	TSR 205+02.77, 39.66' Rt
C5	NE	048°30'47"	82.00'	67.37'	69.43'	21+94.56	CR 100+37.95, 62.78' Lt	22+63.99	CR 100+89.90, 19.88' Lt
C6	NE	012°29'34"	100.00'	21.76'	21.80'	22+63.99	CR 100+89.90, 19.88' Lt	22+85.79	CR 101+11.39, 16.46' Lt
C7	NE	002°47'38"	200.00'	9.75'	9.75'	23+41.74	CR 101+67.27, 13.74' Lt	23+51.49	CR 101+77.02, 13.50' Lt
C8	SE	066°15'16"	87.00'	95.09'	100.60'	11+38.13	TSR 203+25.23, 15.00' Rt	12+38.73	CR 100+66.34, 34.82' Rt
C9	SE	021°35'24"	230.00'	86.16'	86.67'	12+38.73	CR 100+66.34, 34.82' Rt	13+25.40	CR 101+50.09, 14.58' Rt
C10	SE	002°47'38"	200.00'	9.75'	9.75'	13+42.60	CR 101+67.27, 13.74' Rt	13+52.35	CR 101+77.02, 13.50' Rt
C11	SW	035°17'16"	100.00'	60.62'	61.59'	41+99.87	CR 98+73.85, 6.50' Rt	42+61.46	CR 99+31.62, 24.87' Rt
C12	SW	064°38'14"	35.00'	37.42'	38.48'	42+61.46	CR 99+31.62, 24.87' Rt	43+00.94	TSR 203+64.03, 24.12' Lt
C13	SW	014°14'24"	298.38'	73.97'	74.16'	43+00.94	TSR 203+64.03, 24.12' Lt	43+75.10	TSR 202+96.63, 15.00' Lt
C14	SW Apron	072°14'45"	45.00'	53.06'	56.74'	130+00.00	CR 99+04.11, 14.34' Rt	130+56.74	TSR 203+61.49, 34.82' Lt
C15	SW Apron	023°40'05"	200.00'	82.03'	82.62'	130+56.74	TSR 203+61.49, 34.82' Lt	131+39.36	TSR 202+81.21, 18.00' Lt





SCALE: 1"=40'-0"
APK
CHECKED
MRB
CALCULATED

MEDIAN BASELINES SCHEMATIC EXHIBIT

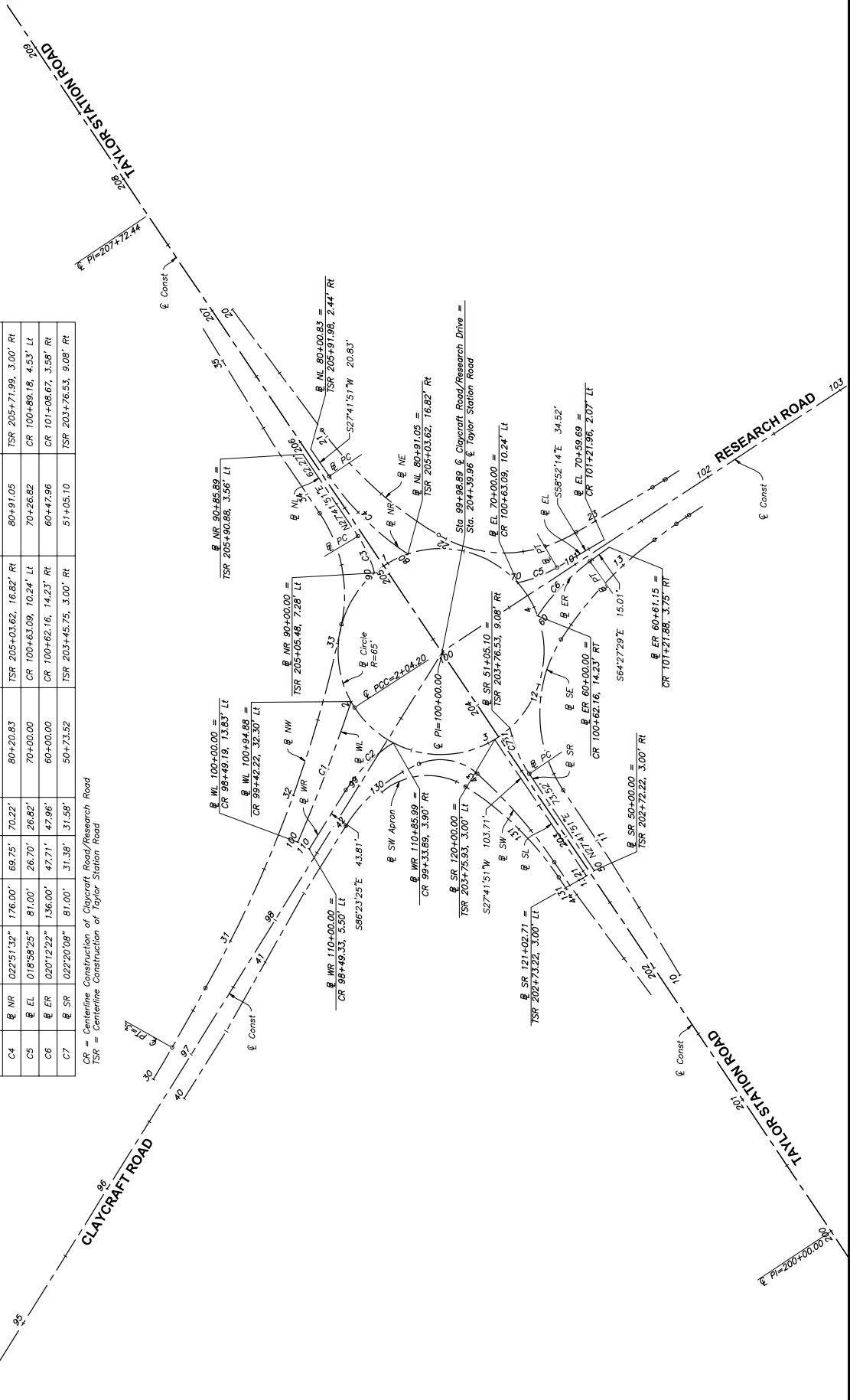
TAYLOR STATION ROAD
CLAYCRAFT ROAD & RESEARCH
ROAD ROUNDABOUT

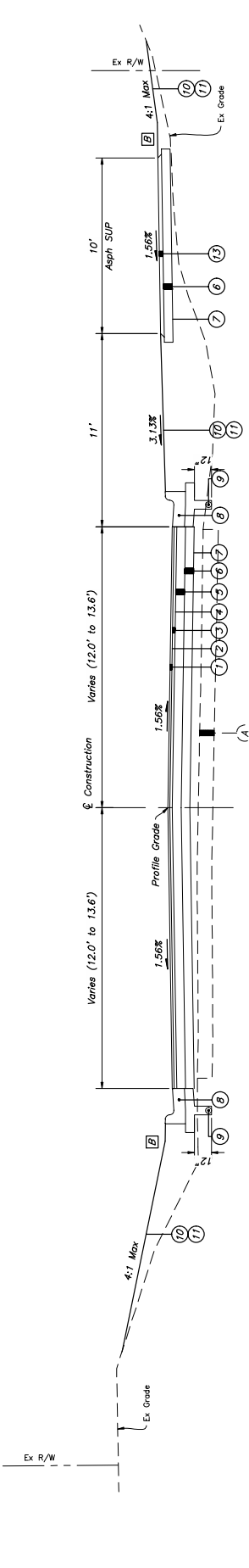


Baseline Curve Data (Edge of Pavement)

Curve #	Name	Δ	Radius	Tangent	Length	Begin Curve Station	Reference Station & Offset	End Curve Station	Reference Station & Offset
C1	WL	004°56'14"	1101.00'	94.85'	94.88'	100+00.00	CR 98+49.19, 13.83' Lt	100+94.88	CR 99+42.22, 32.30' Lt
C2	WR	026°15'22"	93.00'	42.25'	42.62'	110+43.81	CR 98+49.32, 5.43' Lt	110+48.43	CR 99+34.29, 4.10' Rt
C3	NL	019°23'55"	75.50'	25.43'	25.55'	90+00.00	TSR 205+05.48, 7.28' Lt	90+25.55	TSR 205+30.55, 3.00' Lt
C4	NR	022°51'32"	176.00'	69.75'	70.22'	80+20.83	TSR 205+03.62, 16.82' Rt	80+91.05	TSR 205+71.99, 4.53' Lt
C5	EL	018°58'25"	81.00'	26.70'	26.82'	70+00.00	CR 100+63.09, 10.24' Lt	70+26.82	CR 100+89.18, 4.53' Lt
C6	ER	020°12'22"	136.00'	47.71'	47.96'	60+00.00	CR 100+62.16, 14.23' Rt	60+47.96	CR 101+08.67, 3.58' Rt
C7	SR	022°20'08"	81.00'	31.36'	31.58'	50+73.52	TSR 203+45.75, 3.00' Rt	51+05.10	TSR 203+76.53, 9.08' Rt

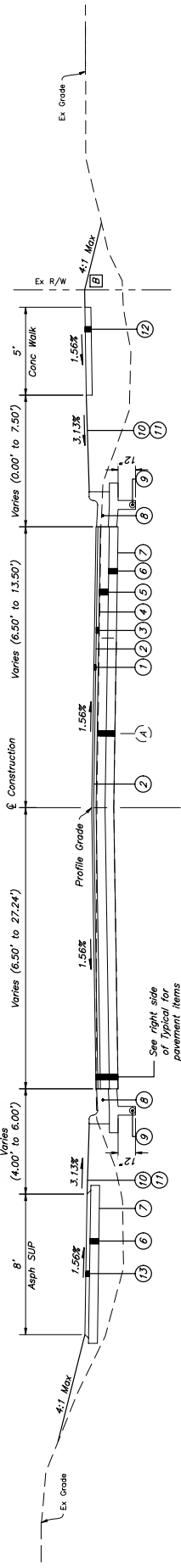
CR = Centerline Construction of Claycraft Road/Research Road
TSR = Centerline Construction of Taylor Station Road





TYPICAL 2 - TAYLOR STATION ROAD

Sta. 96+55.95 to Sta. 202+71.94 = 94.74 Ft.
Sta. 201+92.81 to Sta. 207+20.86 = 128.05 Ft.

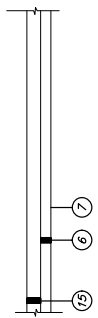


TYPICAL 1 - CLAYCRAFT ROAD / RESEARCH ROAD

Sta. 96+55.95 to Sta. 98+49.33 = 193.38 Ft.
Sta. 101+23.52 to Sta. 101+60.11 = 66.59 Ft.

LEGEND

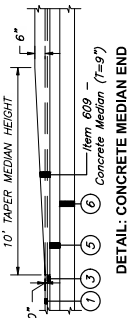
- 1 Item 441 - Asphalt Concrete Surface Course, Type 1 (448), PC70-22M (T=1.50")
- 2 Item 407 - Non-Tracking Tack Coat (0.055 Gal/SY)
- 3 Item 441 - Asphalt Concrete Intermediate Course, Type 2 (448), PC64-22 (T=1.75")
- 4 Item 407 - Non-Tracking Tack Coat (0.085 Gal/SY)
- 5 Item 301 - Asphalt Concrete Base (T=9")
- 6 Item 304 - Aggregate Base (T=6")
- 7 Item 204 - Subgrade Compaction
- 8 Item 609 - Combined Curb & Gutter, Type Special 8" (Std Dwg 2020)
- 9 Item 605 - 4" Pipe Underdrains with #8 or #57 Aggregate
- 10 Item 659 - Seeding and Mulching, Class 1
- 11 Item 659 - Topsoil (T=4")
- 12 Item 608 - Concrete Walk (T=4")
- 13 Item 1530 - Asphalt Concrete Surface Course, Type 1, (448), PC64-22 (T=2.5")
- 14 Item 254 - Pavement Planing, Asphalt Concrete (T=1 1/2")
- 15 Item 432 - Non-Reinforced Concrete Pavement (T=8")
- 16 Item 609 - Curb, Straight 18"
- 17 Item 609 - Curb, Type 3-B, As Per Plan
- 18 Ex Asphalt Pavement Varies 7" to 12"



DETAIL: CONCRETE COMMERCIAL DRIVE

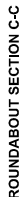
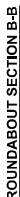
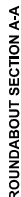
Applies to all Concrete Aprons

- A See Cross Sections for additional information.
- B 2" Rounding
- C See Grading Details for additional information



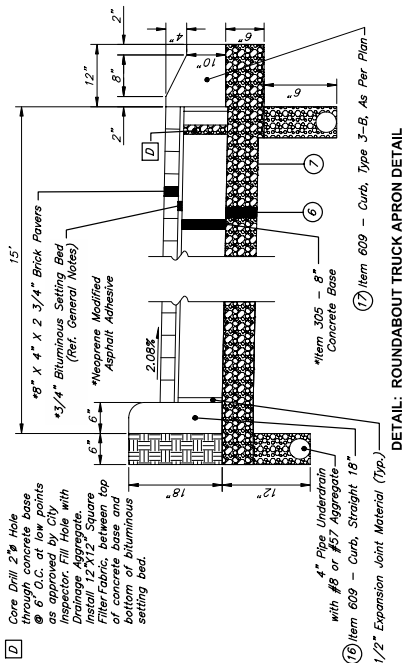
DETAIL: CONCRETE MEDIAN END

- | | |
|----|--|
| 11 | Item 650 – Topsoil ($T=4^{\circ}$) |
| 12 | Item 609 – Concrete Walk ($T=4^{\circ}$) |
| 13 | Item 1530 – Reinforced Concrete Surface Course, Type 1, (448),
PC64-2 ($T=2.5^{\circ}$) |
| 14 | Item 254 – Pavement Planning, Asphalt Concrete ($T=1\ 1/2^{\circ}$) |
| 15 | Item 452 – Non-Reinforced Concrete Pavement ($T=8^{\circ}$) |
| 16 | Item 609 – Curbs, Straight 18" |
| 17 | Item 609 – Curbs, 3-B, As Per Plan |
| A | Ex Asphalt Pavement Varies 7" to 12" |



- ① Item 441 – Asphalt Concrete Surface Course, Type 1 (44B), PG50-22W (T=1.50°)
- ② Item 407 – Non-Tracking Tack Coat (0.055 Gal/SY)
- ③ Item 441 – Asphalt Concrete Intermediate Course, Type 2 (44B), PG64-22 (T=1.75°)
- ④ Item 407 – Non-Tracking Tack Coat (0.085 Gal/SY)
- ⑤ Item 301 – Asphalt Concrete Base (T=9°)
- ⑥ Item 304 – Aggregate Base (T=6°)
- ⑦ Item 204 – Subgrade Compaction
- ⑧ Item 609 – Combined Cut & Gutter, Type Special 8" (Std Dwg 2020)
- ⑨ Item 605 – 4" Pipe Underdrains with #9 or #57 Aggregate
- ⑩ Item 659 – Seeding and Mulching, Class 1

- [A]** See Cross Sections for additional information.
- [B]** 2' Rounding
- [C]** See Grading Details for additional information

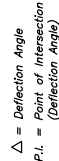


DETAIL: ROUNDABOUT TRUCK APRON DETAIL

Not to scale

Listed below are utility companies that have facilities located within the work limits of this project and subscribe to OUPS.

CTCC



TAYLOR STATION ROAD	CLAYCRAFT ROAD & RESEARCH	ROAD ROUNDABOUT
---------------------	---------------------------	-----------------

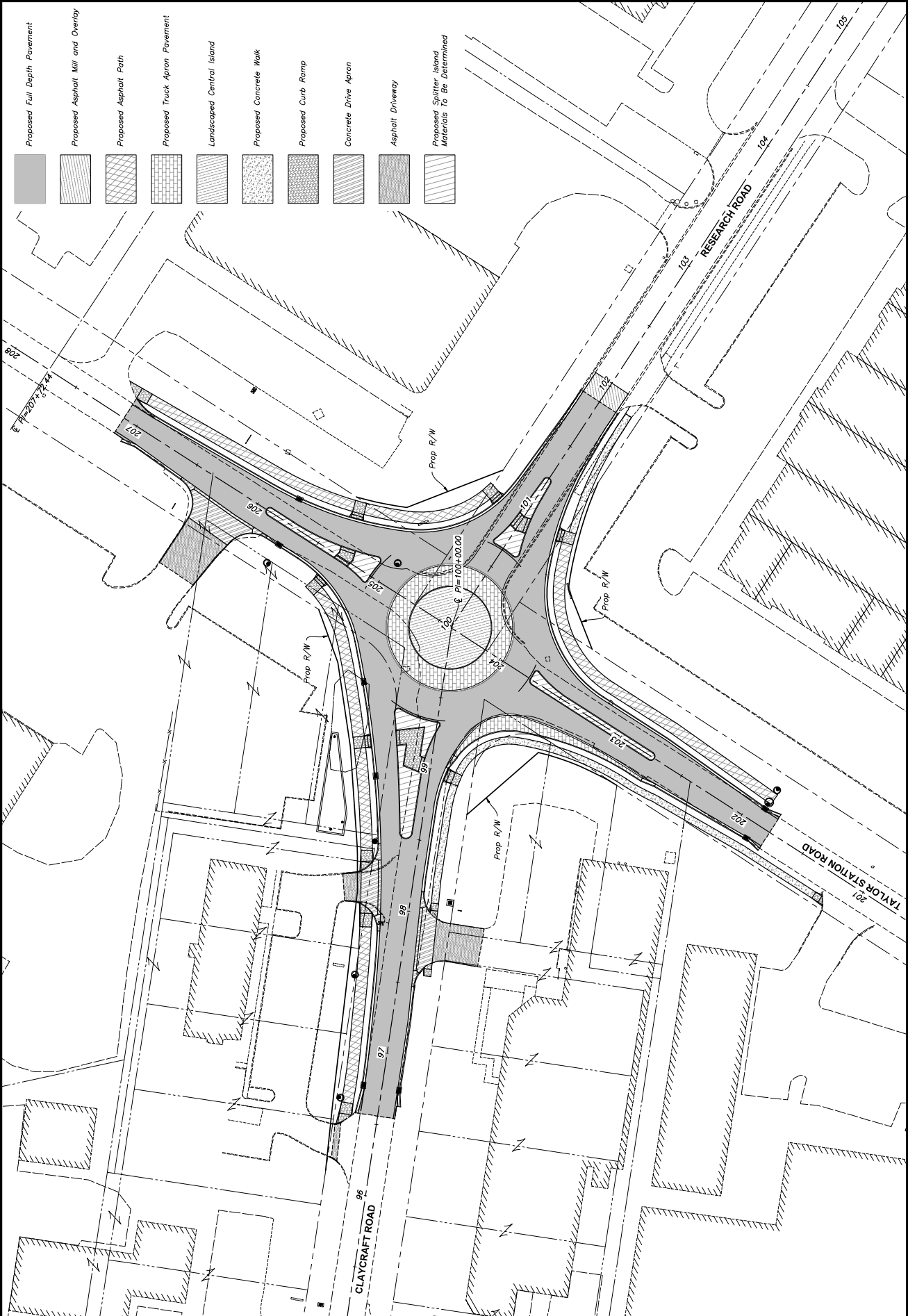


TAYLOR STATION ROAD
CLAYCRAFT ROAD & RESEARCH
ROAD ROUNDABOUT

MATERIAL PLACEMENT DETAIL

CALCULATED
CHECKED
APK
MRB

- Proposed Full Depth Pavement
- Proposed Asphalt Mill and Overlay
- Proposed Asphalt Path
- Proposed Truck Apron Pavement
- Landscaped Central Island
- Proposed Concrete Walk
- Proposed Concrete Ramp
- Concrete Drive Apron
- Asphalt Driveway
- Proposed Splitter Island Materials To Be Determined



CALCULATED	KRB	JPS
CHECKED		

MAINTENANCE OF TRAFFIC DETOUR PLAN

TAYLOR STATION ROAD
CLAYCRAFT ROAD & RESEARCH
ROAD ROUNDABOUT

PRELIMINARY - NOT FOR CONSTRUCTION

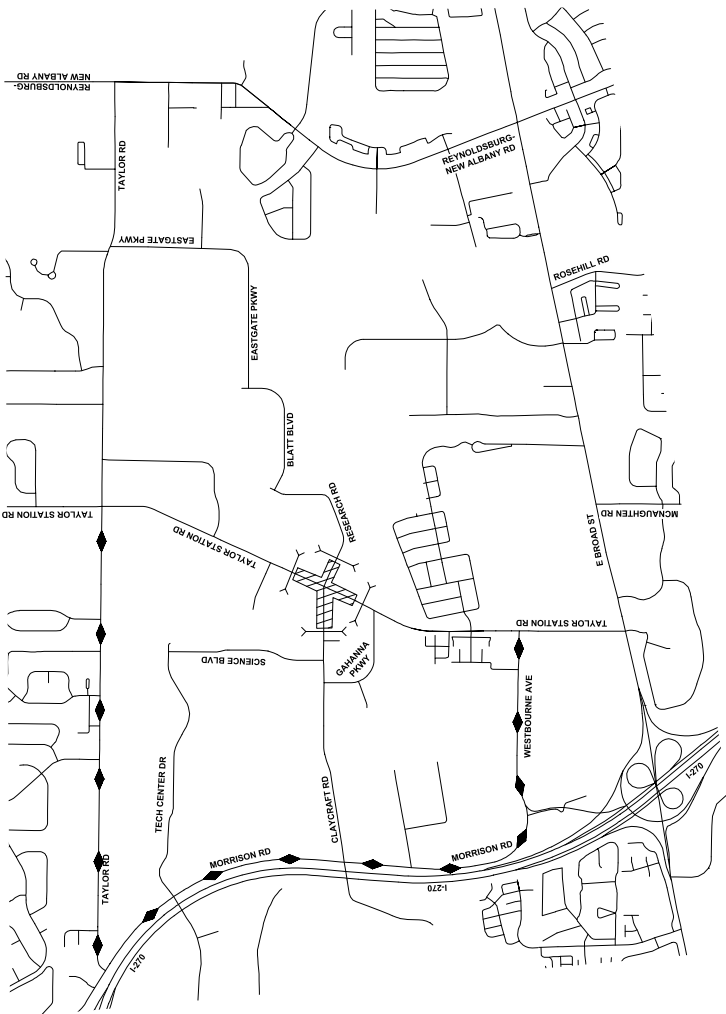


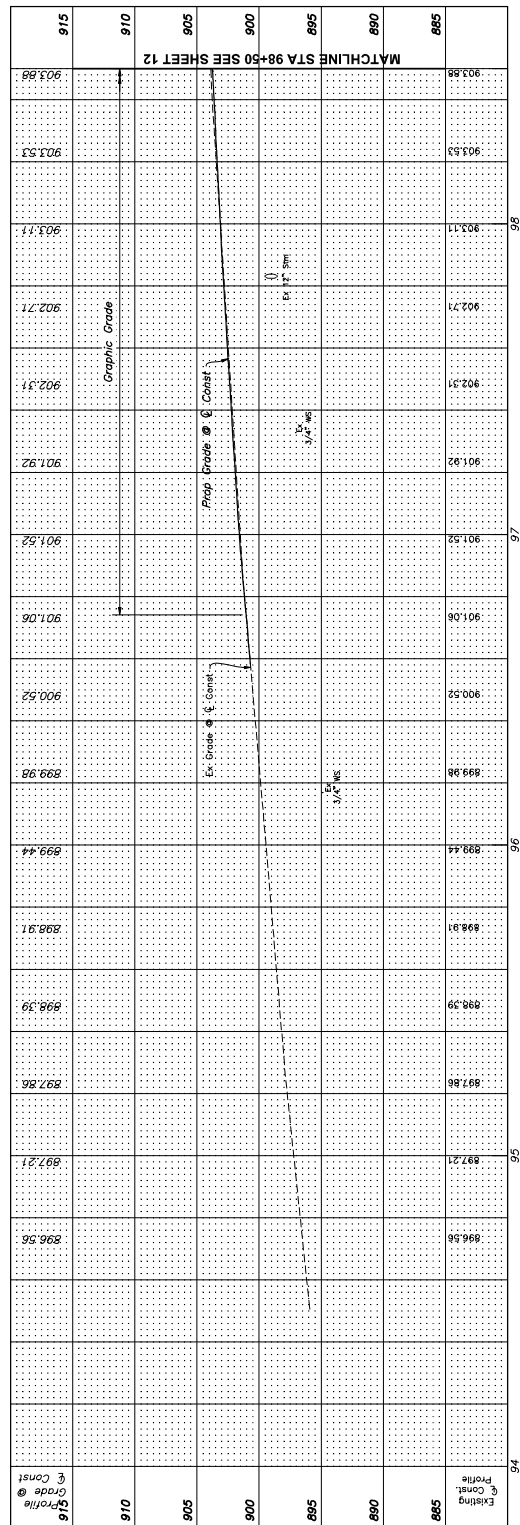
Legend

Work Zone

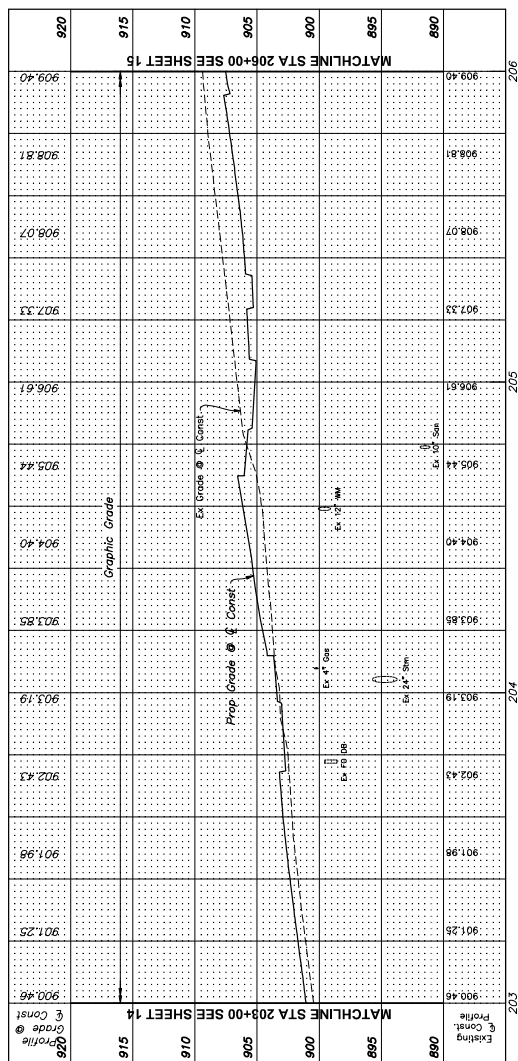
Detour Route

Type III Barricade

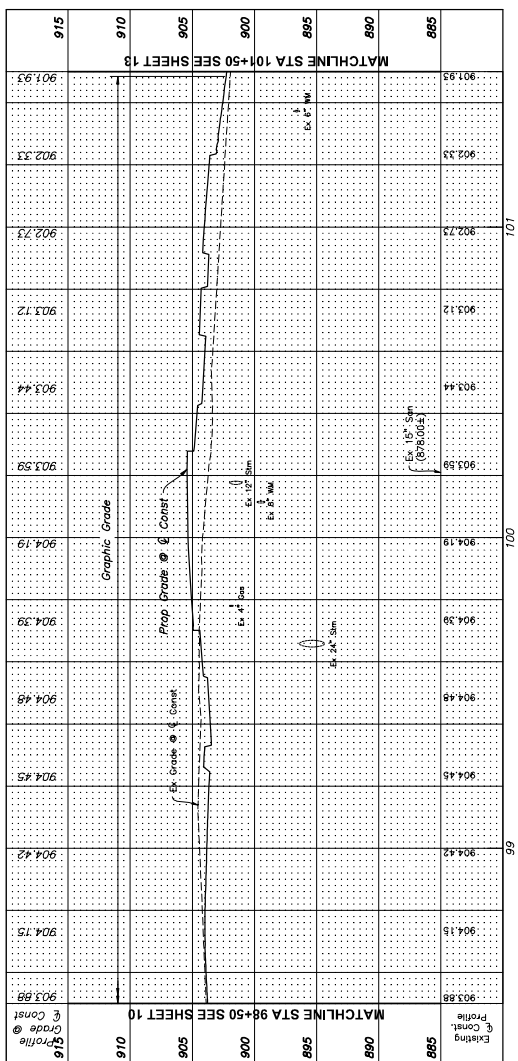




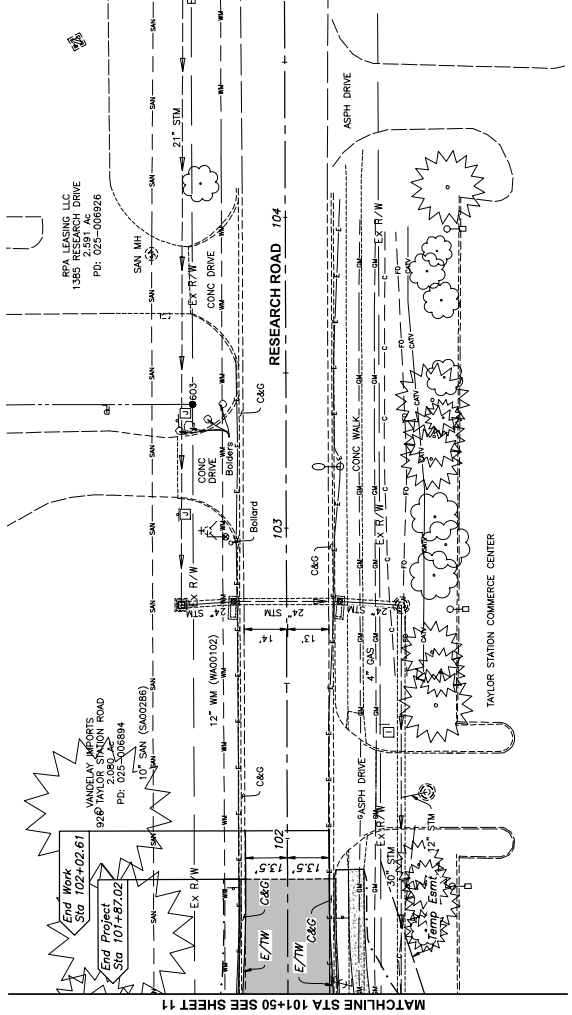


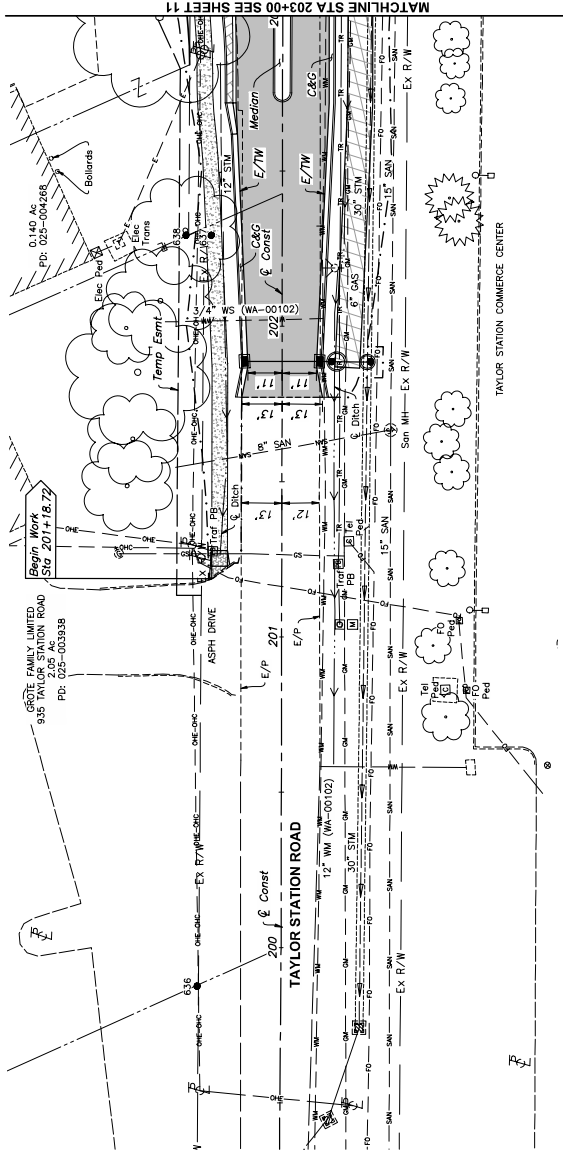


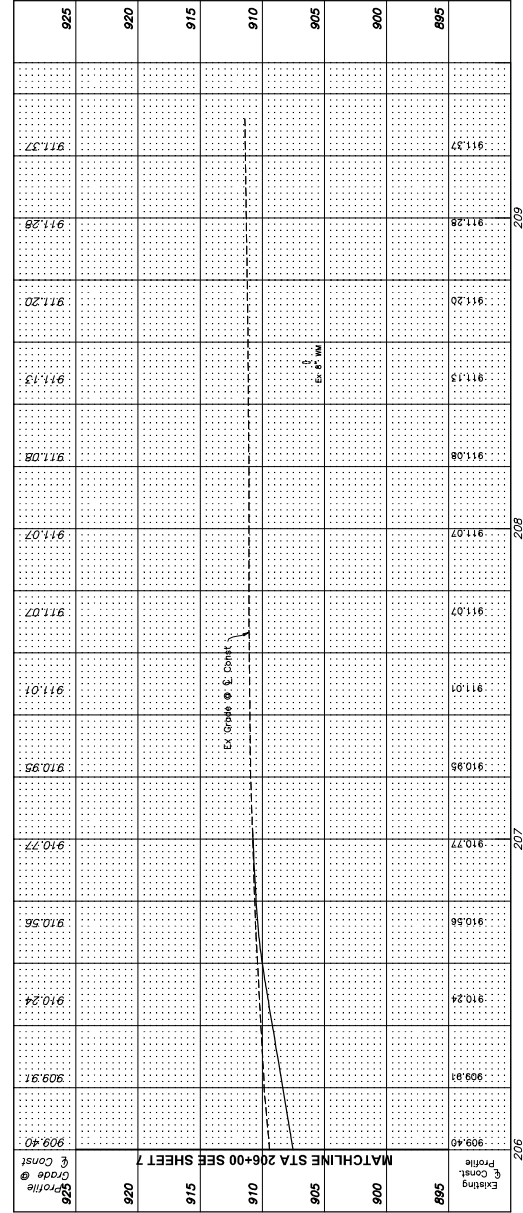
TAYLOR STATION ROAD



CLAYCRAFT ROAD

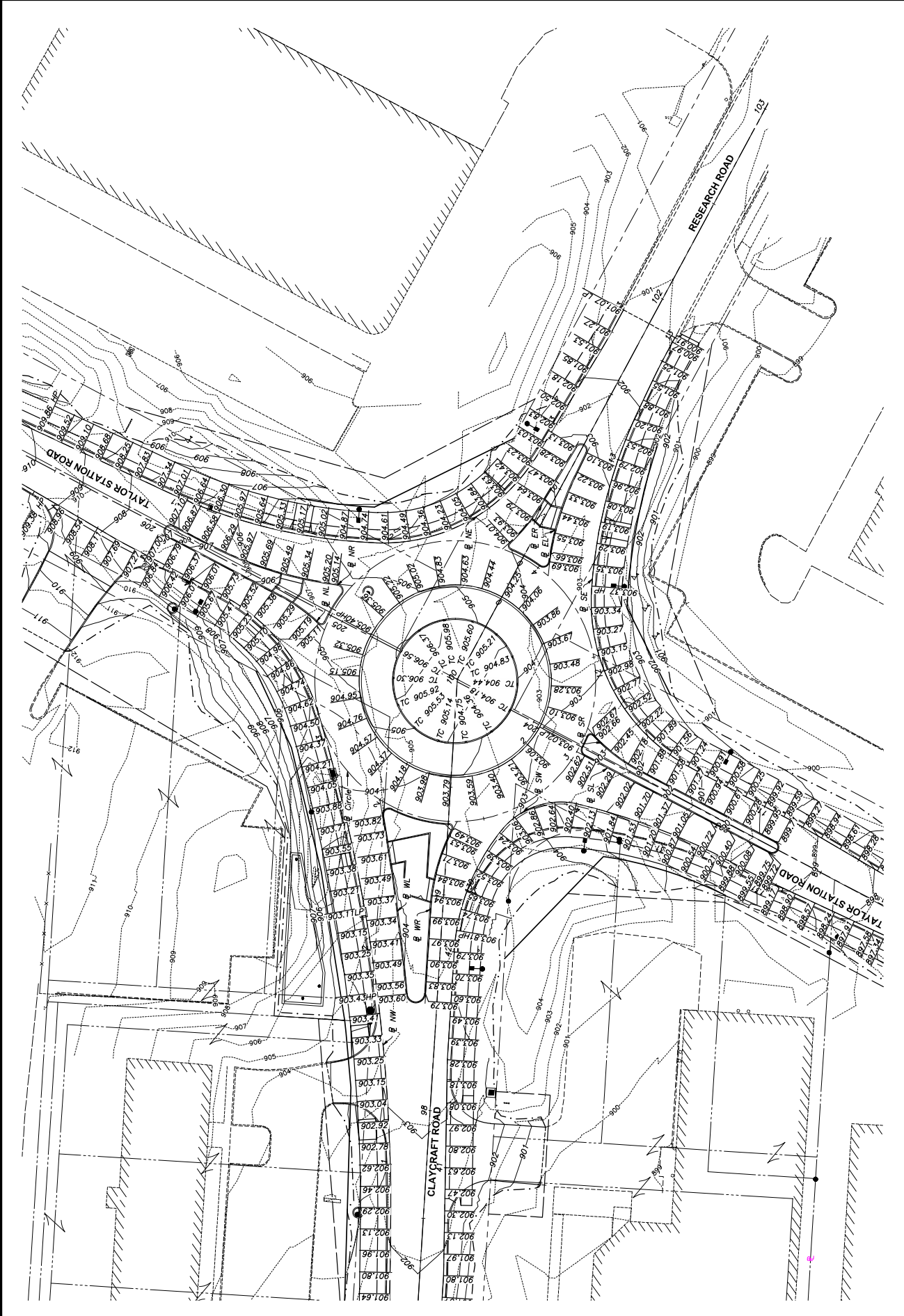
[illegible]





Legend

- Curb Ramp/Median Crossing
- 4' Concrete Walk
- 8' Shared Use Path
- Conc Drive Apron
- Asphalt Drive
- Full Depth Asphalt Pavement
- Truck Apron
- To be removed



GENERAL

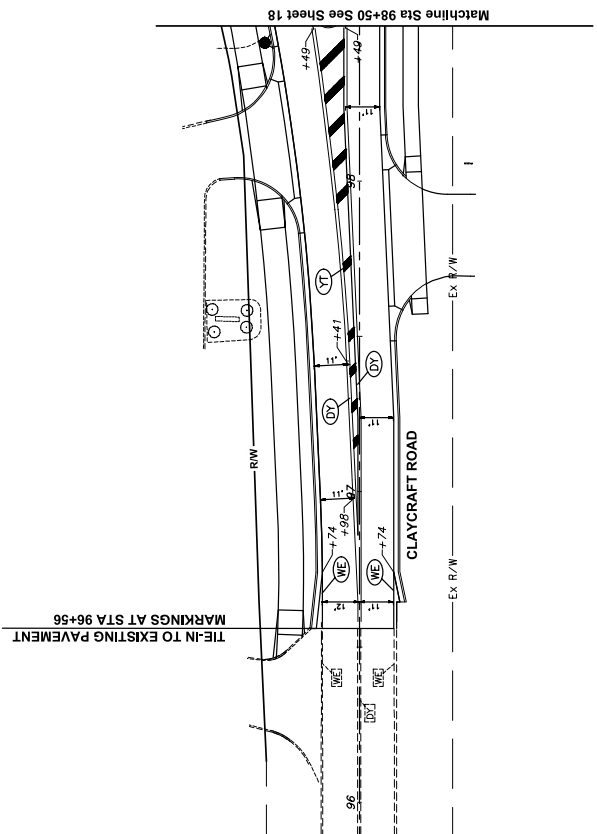
These specifications, together with the accompanying plans are intended to describe the type, size and location of all proposed and existing traffic control devices and related materials to be installed on the project. The Contractor shall provide and install all traffic control devices and related materials in compliance with these plans and specifications, as well as the 2019 Ohio Department of Transportation Construction and Standard Construction Drawings issued by the Ohio Department of Transportation. These specifications set forth the minimum performance and operating requirements of the traffic control devices to be installed on the project.

TRAFFIC CONTROL DEVICES

The Contractor shall furnish and install traffic control devices in compliance with these plans and specifications, the 2019 Ohio Department of Transportation Construction and Material Specifications, and its supplemental specifications, Ohio Manual of Uniform Traffic Control Devices for Streets and Highways, and the "IC" Standard Construction documents. Traffic control devices shall meet or exceed the standards specified in the following documents:

- (a) Specifications listed in this plan;
 - (b) 2019 Ohio Department of Transportation Construction and Material Specifications.
- In case of a conflicting specification statement, the specification document hierarchy shall be in the order listed from (a), highest, to (b), lowest.

MARKINGS AT STA 96+56



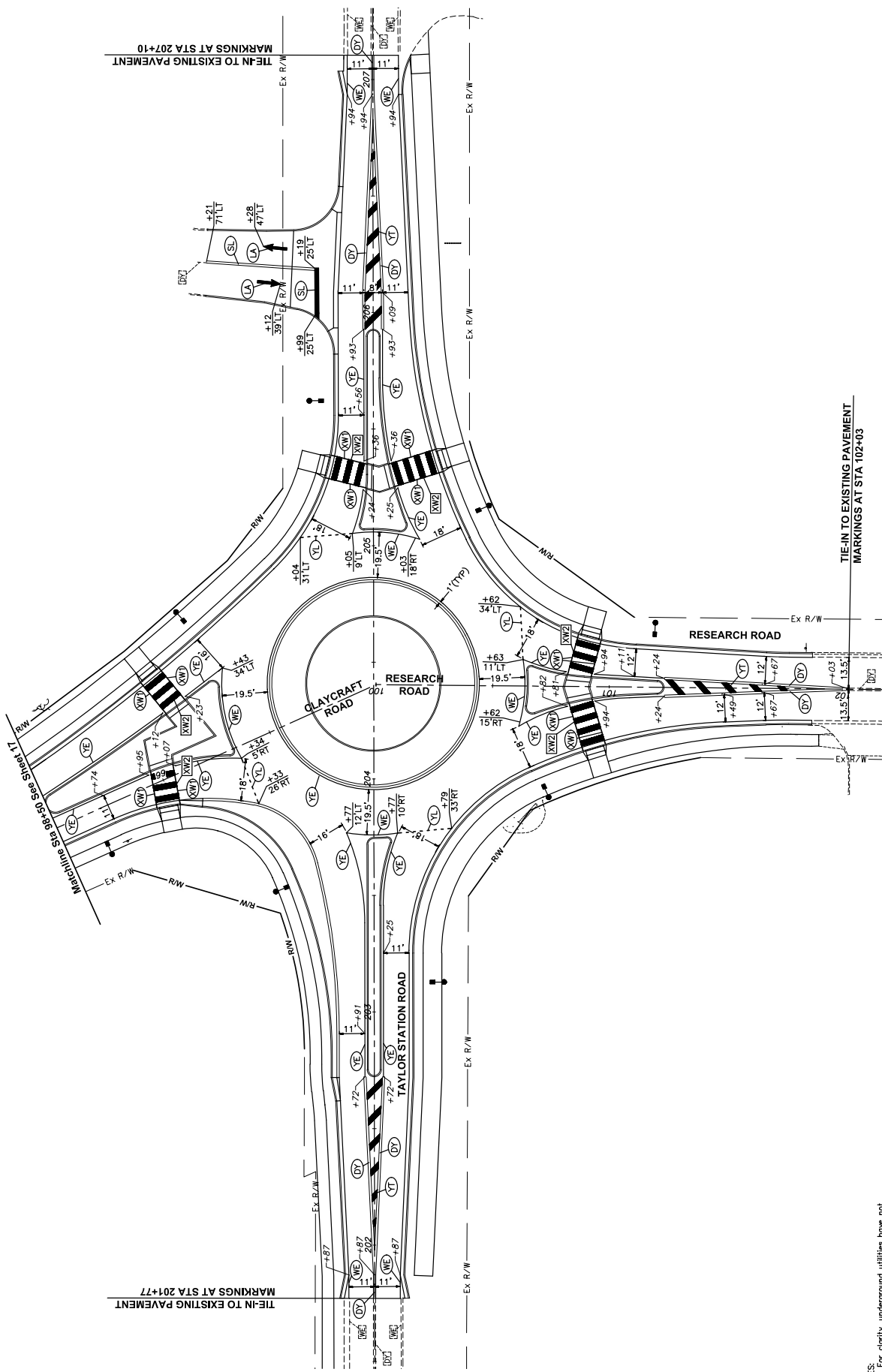
LINE SPECIFICATIONS	
DL	Center Line, 4" Solid Double
SL	Stop Line, 20" White
WE	Edge Line, 4", White
YE	Edge Line, 4", Yellow
XW1	Crosswalk Line, 10", White
XW2	Crosswalk Line, 24", White
YT	Transverse Line, 24", Yellow
LA	Lane Arrow
YL	Yield Line, 20" White

- (DL) Proposed Pavement Marking (Item 644)
- (XW2) Proposed Pavement Marking (Item 647-890)
- (YT) Existing Pavement Marking (To Remain)

CALCULATED
KRB
CHECKED
JPS
GRAPHIC SCALE
1 inch = 20 feet

TAYLOR STATION ROAD
CLAYCRAFT ROAD & RESEARCH
ROAD ROUNDABOUT

PRELIMINARY - NOT FOR CONSTRUCTION



NOTES:
1. Verify clarity, underground utilities have not been shown on this sheet. The Contractor shall reference the appropriate plan and profile sheet for utility locations prior to placing sign posts or foundations.

TIE-IN TO EXISTING PAVEMENT
MARKINGS AT STA 201+77

TIE-IN TO EXISTING PAVEMENT
MARKINGS AT STA 102+03

MATCHING SEE SHEET 17



Engineers, Surveyors, Planners, Scientists

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5500 New Albany Rd., Columbus, OH 43054

p. 614.775.4500

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info@emht.com

Job Number: 2020-1191

TAYLOR STATION ROAD & CLAYCRAFT ROAD & RESEARCH ROAD ROUNDABOUT

Stormwater Pollution Prevention Plan (SWPPP)

Prepared For: City of Gahanna

February 7, 2023

emht.com



Engineers, Surveyors, Planners, Scientists

MEMO

Date: February 8, 2023
To: Tom Komlanc, City of Gahanna
From: James Akins (614) 775-4389
Subject: Taylor Station Rd & Claycraft Road & Research Rd Roundabout SWPPP Manual

The following items are required in order to complete the SWPPP Manual:

1. Please sign the SWPPP certification sheet located within the front of the manual.
2. Upon receiving a copy in the mail from the Ohio EPA, insert a copy of the Ohio EPA Notice of Intent (NOI) approval letter within Appendix A. The assigned NPDES facility number is indicated on this letter.
3. Have the appropriate contractors complete and submit the Ohio EPA Notice of Intent (NOI) Co-permittee application. The Co-permittee application can be found on the Ohio EPA's EBusiness Center website.
4. All contractors associated with the implementation of the SWPPP are required to review the SWPPP and sign the acknowledgment form within Appendix B.
5. The contractor is required to keep an up-to-date disturbance and stabilization activities log. An example is provided within Appendix E. This is an EPA requirement to assist with determining if the disturbed areas associated with the construction activities are being properly stabilized by either temporary or permanent means. Soil stabilization requirements are outlined within the SWPPP Section 3.1.
6. Ensure that the required erosion control site inspections are being provided and create reports. An example of an inspection report is provided within Appendix F. Site inspection requirements are indicated within the SWPPP Section 3.6.
7. The contractor is required to update the SWPPP if modifications are necessary during construction activities. Indicate the SWPPP modifications on the log provided within Appendix G.
8. Ensure that a copy of the SWPPP manual and copies of the required inspections reports are kept on-site and available for the Ohio EPA to review during working hours.
9. Upon completion of the project, submit the Notice of Termination (NOT) form provided on the Ohio EPA's EBusiness Center website. This will terminate the NPDES permit coverage that was issued to cover the construction site stormwater discharges. Instructions are provided within the SWPPP Section 1.7.

Please let me know if you have any questions.



SWPPP CERTIFICATION

"I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Project Estimated Start Date:
Project Estimated Completion Date:

Project Owner: City of Gahanna

Signature: _____
Printed Name: Tom Komlanc
Phone Number: (614) 342-4050

Date: _____

SWPPP Prepared By: EMH&T Inc.

Signature: 
Printed Name: James Akins, CPESC No. 3998
Phone: (614) 775-4389

Date: February 7, 2023

Site Contact: Tom Komlanc
City of Gahanna
200 Hamilton Road
Gahanna, Ohio 43230
Phone: (614) 342-4050
Email: tom.komlanc@gahanna.gov

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Appendices

Appendix A: Ohio EPA Approval Letter & General Permit

Appendix B: Contractor & Subcontractor SWPPP Acknowledgement Form

Appendix C: Erosion & Sediment Control Plan & Best Management Practice Details

Appendix D: Water Quality Calculations and Drawdown Graphs

Appendix E: Land Disturbance and Stabilization Activities Log

Appendix F: Inspection Reports

Appendix G: SWPPP Amendment Log

Appendix H: Post-construction Water Quality Operation & Maintenance Plan

1.0 OVERVIEW

1.1 SWPPP Overview

This plan has been prepared for the Taylor Station Road & Claycraft Road & Research Road Roundabout project located within the City of Gahanna, Franklin County. The SWPPP addresses the storm water management requirements within the Ohio Environmental Protection Agency General Permit No. OHC000005 which authorizes storm water discharges associated with construction activity under the National Pollutant Discharge Elimination System (NPDES) and the City of Gahanna Erosion and Sediment Pollution Control Regulations.

The City of Gahanna is the operator associated with the project. Copies of the Ohio EPA NOI approval letter and Ohio EPA General Permit are provided in Appendix A.

The SWPPP identifies potential pollutant sources associated with construction site runoff and indicates the utilization of Best Management Practices (BMP's). BMP's consist of planned activities, structural and non-structural practices, maintenance procedures and management practices utilized to prevent or reduce the pollution of surface waters of the state. Construction activities covered under the permit include any clearing, grubbing, grading, excavating, filling procedures and dewatering activities that disturb the project area indicated on the Notice of Intent (NOI) application.

The permit also authorizes storm water runoff discharges from support activities associated with the project. Support activities include: concrete or asphalt batch plants; equipment staging yards; material storage areas; excavated material disposal and borrow areas. Non-storm water discharges covered by the permit include: discharges from firefighting activities; fire hydrant flushing; irrigation drainage; lawn watering; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred; air conditioning condensate; springs; uncontaminated ground water from trench or well point dewatering and foundation or footer drains where flows are not contaminated with the process materials such as solvents.

1.2 EPA NOI Co-permittee Application

Contractors associated with the project that meets the definition of a "site operator" per the Ohio EPA General Permit, shall complete the NOI co-permittee application and submit the application to the Ohio EPA. The Contractor shall be covered under the same Ohio EPA facility permit number assigned to the project that is indicated on the Ohio EPA NOI approval letter. The Contractor will be responsible for complying with the requirements within the EPA General Permit. The Ohio EPA NOI Co-permittee application is required to be filed electronically via the Ohio EPA's e-Business Center website which can be found by following the link below.

Ohio EPA EBusiness Center: <https://ebiz.epa.ohio.gov/login.html>

Steps to file a Co-permittee application are provided below.

1. Create an account/password and PIN on the Ohio EPA's e-Business Center.
2. Log on and click "Division of Surface Water NPDES Permit Applications (STREAMS).
3. At the top of the page under permit list click "Add Permit" and search for the project using the Ohio EPA NPDES Facility Permit Number. This was assigned to the project when the NOI was approved.
4. You will see your project added to the permit list. Click "Actions" and "Create Copermitttee Permit Application"
5. Fill in the required information and submit the application form using your PIN.

Site Operator per the Ohio EPA General Permit: The party that has day-to-day operational control over those activities at a project which are necessary to ensure compliance with the SWPPP for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the SWPPP or comply with other permit conditions).

1.3 Potential Construction Site Storm Water Pollutants

The SWPPP identifies potential sources of pollutants which may reasonably be expected to affect the quality of storm water discharges associated with construction activities of the project. Descriptions of the BMP's are provided that shall be utilized to reduce the potential pollutants.

Potential Construction Site Storm Water Pollutants

Potential Pollutant	Best Management Practice
Sediment within construction site runoff	Sediment fence, storm sewer inlet protection, temporary and permanent seeding and mulching
Sediment associated with dewatering activities	Placement of intake hose shall be positioned at the top of the water level. Discharge hose shall be directed into a filter bag with a sufficient existing vegetative buffer prior to the stormwater outfall
Dust	Water trucks or other acceptable means of managing dust from construction traffic approved by the local governing authority
Fuels	Fuel tanks shall be stored away from surface waters and storm sewer inlets within a diked area. Spills shall be contained as soon as possible upon notification and material removed from the site. Fuel containers shall be closed when not in use so not to expose to stormwater.
Grease & Oil	Spills shall be contained as soon as possible upon notice and material removed from the site. Containers shall be closed when not in use so not to expose to stormwater. Empty containers shall be removed from the site and properly disposed of.
Fertilizers/Pesticides	Applied at the required rates and not on impervious areas.
Alkalinity	Concrete trucks shall utilize areas to washout trucks. Accumulated concrete shall be removed from the site and disposed of properly. Alternatively, contractors shall use a roll off box with a liner.

Ohio EPA Emergency Spill Hotline

Hazardous or potential hazardous material that is utilized on the site shall be handled, stored and disposed of properly to reduce the potential of polluting storm water runoff. Spills or other unintended releases in excess of reportable quantities that discharge hazardous substances into surface waters of the state shall be contained and reported as required within section 40 of the Code of Federal Regulations Part 117 and Part 302. Spills are to be immediately reported to the Ohio EPA Emergency Spill Hotline (1-800-282-9378).

Petroleum product spills of 25 gallons or more shall be immediately reported to the Ohio EPA and the local fire department. All releases of hazardous substances to the environment must be handled pursuant to applicable laws. All spills that result in the contact with waters of the state must be reported to the Ohio EPA. Smaller spills on impervious areas such as pavement shall be contained and absorbed with sawdust, kitty litter or other absorbent material and disposed of at a licensed sanitary facility.

1.4 SWPPP Availability

On-site:

The SWPPP shall be available immediately upon request of the Ohio EPA Director or an authorized representative during working hours. Additionally, a copy of the Notice of Intent (NOI) application and the EPA letter granting permit coverage under the Ohio EPA General Permit Number OHC000005 shall be made available.

Written request:

The SWPPP shall be provided within 10 days upon written request from the EPA Director or the Director's authorized representative.

To the public:

All NOI applications, Ohio EPA general permit approval for coverage letters, and SWPPP's are considered reports that shall be available to the public in accordance with the Ohio Public Records law. The permittee may claim to the Ohio EPA any portion of an SWPPP as confidential in accordance with Ohio law.

1.5 SWPPP Revision Requirement

The SWPPP shall be revised to address any changes required by the Ohio EPA Director or authorized representative within 10 days of the notification. The SWPPP shall be submitted to the EPA or a written certification that the revision requests have been addressed.

The City of Gahanna shall amend the SWPPP whenever there is a change in the design, construction, operation or maintenance, which has a significant effect on the potential for the discharges of pollutants to surface waters of the state or if the SWPPP proves to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges associated with construction

activities. The changes made to the SWPPP are required to be indicated on the SWPPP Amendment Log located within Appendix G.

1.6 Contractor and Subcontractor SWPPP Acknowledgement

The City of Gahanna shall inform all contractors and subcontractors of the terms and conditions of the Ohio EPA general permit who will be involved with the implementation of the SWPPP prior to commencement of land disturbing activities on the site. The City of Gahanna shall maintain a written document containing the signatures of the contractors and subcontractors involved with the implementation of the SWPPP. The contractors and subcontractors roles associated with the SWPPP implementation shall be indicated on the signature sheet located within Appendix B.

1.7 Ohio EPA Notice of Termination

Erosion and sediment controls associated with the various construction activities shall be installed according to the erosion and sediment control plans located within Appendix C. The controls shall be inspected and maintained until the site is permanently stabilized and the Ohio EPA Notice of Termination (NOT) has been submitted which terminates the General Permit coverage. The NOT form shall be submitted to the Ohio EPA upon the permanent stabilization of the site and the removal of the temporary sediment controls. The Ohio EPA Notice of Termination (NOT) Application is required to be filed electronically using the Ohio EPA's e-Business Center.

Steps to file a Notice of Termination application are provided below.

1. Create an account/password and PIN on the Ohio EPA's e-Business Center.
2. Log on and click "Division of Surface Water NPDES Permit Applications (STREAMS).
3. At the top of the page under permit list click "Add Permit" and search for the project using the Ohio EPA NPDES Facility Permit Number. This was assigned to the project when the NOI was approved.
4. You will see your project added to the permit list. Click "Actions" and "Terminate Permit"
5. Fill in the required information and submit the application form using your PIN.

2.0 SITE DESCRIPTION

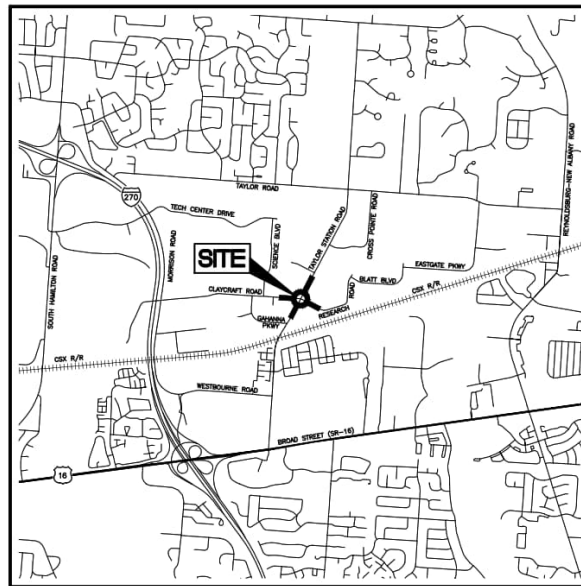
2.1 Construction Activity

The overall project consists of the intersection improvements of Taylor Station Road, Claycraft Road, and Research Road into a single lane roundabout that includes drainage improvements, adjacent pedestrian facilities, street lighting, traffic control, and landscaping.

Construction activities associated with the project include:

- installation of temporary sediment controls;
- clearing and grading;
- installation of the proposed site infrastructure;
- construction of the proposed roadway development;
- and permanent stabilization of the disturbed areas.

An estimated 2.05 acres shall be disturbed associated with construction activities.



LOCATION MAP

No Scale

2.2 Site Area Information

Total Site Disturbance as indicated on the EPA NOI =	2.05 Acres
Latitude:	39.992486°
Longitude:	-82.840000°
Pre-construction Impervious Area =	1.00 Acres
Post-construction Impervious Area =	1.50 Acres
Pre-construction Volumetric Runoff Coefficient =	0.68
Post-construction Volumetric Runoff Coefficient =	0.77

2.3 Soil Data

According to the USDA Soil Survey, the predominant soils on-site consist of:

- BeB – Bennington silt loam, 2-6% slopes Type “C/D” Hydrologic Soil Group
- BeA – Bennington silt loam, 0-2% slopes Type “C/D” Hydrologic Soil Group

Soil erosion rates increase as the existing cover is removed resulting from construction activities. Sediment controls are to be installed and properly maintained as indicated within this plan to minimize sediment laden runoff from flowing offsite. Disturbed areas are to be stabilized per the temporary and permanent stabilization requirements as indicated within Section 3.1.

Muddy water encountered within excavated areas will require to be pumped into a filter bag.



2.4 Existing Land Use & Adjacent Areas

The existing land-use associated with the site consists of the existing roadway and grassed right of way. The site is bordered by commercial properties on all sides of the roadway improvements.



2.5 Receiving Stream

Stormwater runoff associated with the project is tributary to the City of Gahanna MS4 and ultimately Big Walnut Creek.

2.6 Construction Sequence – Best Management Practice Installation

Note: Ensure that a copy of the NOI, Ohio EPA approval letter, and the SWPPP are available on-site during working hours.

1. Where indicated on the plans, install inlet controls on existing structures and establish concrete washout area.
2. Install perimeter filter fabric fence and the tree protection fence where shown.
3. Construct water main relocation.
4. Construct storm sewer.
5. Install inlet controls on proposed structures.
6. Construct pavement, curbs, shared use paths, and sidewalks.
7. Finish grading.
8. Construct rock check dams in ditches.
9. Perform final seeding and install landscaping where indicated.
10. Remove temporary sediment controls placed by this contract.

3.0 CONTROLS

Erosion controls, sediment controls and storm water management practices utilized shall be installed per the details indicated on the erosion and sediment control plan located within Appendix C.

Alternative controls installed by the contractor shall be documented within the SWPPP Amendment Log located within Appendix G and the installation of the controls shall meet the standards and specifications in the current edition of Ohio's Rainwater and Land Development manual or other standards acceptable to the Ohio EPA.

3.1 Erosion Control Practices

Temporary seeding and mulching applications shall be utilized to stabilize disturbed areas throughout the construction process.

Throughout construction activities, the site contractor is required to maintain a log documenting land disturbing and temporary/permanent stabilization activities associated with the site. A log is provided within Appendix E. Disturbed areas are to be temporarily and permanently stabilized per the requirements outlined below.

Temporary Stabilization

Project Area	Time Frame for Application
Disturbed areas within 50' of a surface water of the state and not at final grade	Within 2 days of the most recent disturbance
Disturbed areas that will be dormant for more than 14 days but less than 1 year, and not within 50' of a surface water of the state	Within 7 days of the most recent disturbance within the area. Residential lots are to be stabilized at least 7 days prior to transfer of the permit coverage
Disturbed areas that will be idle over the winter	Prior to the onset of winter weather

Note: The temporary seeding mix/application rates are provided on the ESC Plans.

Permanent Stabilization

Project Area	Time Frame for Application
Area to lie dormant for more than 1 year	Within 7 days of the most recent disturbance
Area within 50' of a stream and at final grade	Within 2 days of reaching final grade
Other areas at final grade	Within 7 days of reaching final grade

Note: The permanent seeding mix/application rates are provided on the ESC Plans.

3.2 Sediment Control Practices

Sediment control devices shall be implemented for all areas remaining disturbed for over 14 days. Additionally, the sediment controls shall be installed within 7 days of grubbing activities. The site will utilize sediment controls such as sediment fence and inlet protection to manage runoff during construction. Details associated with the various sediment controls are indicated on the erosion and sediment control plan within Appendix C.

3.3 Post-Construction Storm Water Quality

Due to the increase in post construction impervious area, water quality treatment is required. The proposed project utilizes the Ohio Department of Transportation Post-Construction BMP Calculation Spreadsheet to design a manufactured water quality structure. The proposed improvements has a 0.57 acre treatment requirement. This area will be treated by one manufactured water quality structure.

Water quality calculations are included in Appendix D.

3.4 Dewatering Activities

The direct discharge of muddy water to surface waters of the state is a direct violation of the Ohio EPA General Permit. Muddy water encountered during excavation activities shall be directed into a sediment basin or a dewatering filter bag. Additional Best Management Practices such as perimeter sediment fence and gravel dikes around the bag are necessary if bags are utilized. Additionally, a dense vegetated buffer strip is required between the bag and the stormwater outfall location. A 50 foot minimum strip of vegetation is recommended.

3.5 Non-sediment Pollutant Controls

Hazardous or Toxic Materials

Educate construction personnel and subcontractors who may use or handle toxic or hazardous materials.

Disposal and Handling of Hazardous and Other Construction Waste	
Do:	<ul style="list-style-type: none"> • Prevent Spills • Use products up • Follow label direction for disposal • Remove lids from empty bottles and cans when disposing in trash • Recycle wastes whenever possible
Don't:	<ul style="list-style-type: none"> • Don't pour into waterways, storm drains or onto the ground • Don't pour down the sink, floor drain, or septic tanks • Don't bury chemicals or containers • Don't burn chemicals or containers • Don't mix chemicals together

Waste Disposal

Containers shall be provided for the proper collection of all waste material. Construction and demolition debris (CD&D) must be disposed of in accordance with Ohio Revised Code 3714 at an approved Ohio EPA CD&D landfill. Temporary sanitary water facilities additionally must be provided and maintained. Dumpsters shall be closed or covered when not in use (non-operating hours) to limit the temporarily stored waste to storm water exposure and ensuring that no liquid wastes or wastes saturated with significant materials are allowed to be accumulated in trash dumpsters.

Construction Chemicals

The storage and mixing of chemicals shall be performed in a designated area away from watercourses and storm sewer inlets. Chemical containers shall be properly stored on-site to ensure that they are not exposed to rain events. Empty containers shall be properly disposed of off-site at an approved facility. Equipment maintenance and refueling areas are to be located away from storm water conveyance channels and surface waters. A Spill Prevention Control and Countermeasure Plan (SPCC) must be provided by the Contractor if on-site temporary fuel tanks exceed 660 gallons or if the combined storage is above 1320 gallons.

Equipment Fueling and Maintenance

Equipment fueling and maintenance shall be performed away from watercourses, ditches or storm drains, in an area designated for that purpose. The designated area shall be equipped for recycling oil and catching spills. Secondary containment shall be provided for all fuel oil storage tanks. These areas must be inspected every seven days and within 24 hours of a 0.5 inch or greater rain event to ensure there are no exposed materials which would contaminate storm water. Site operators must be aware that Spill Prevention Control and Countermeasures (SPCC) requirements may apply. An SPCC plan is required for sites with one single aboveground tank of 660 gallons or more, accumulative aboveground storage of 1330 gallons or more, or 42,000 gallons of underground storage.

Concrete Washout Areas

Concrete trucks shall have a designated wash-pit or sump with no potential for discharge to ensure that the concrete wash shall not enter storm drains and waters of the state.

Contaminated Soils

If substances such as oil, diesel fuel, hydraulic fluid, antifreeze, etc. are spilled, leaked, or released onto the soil, the soil should be dug up and disposed of at licensed sanitary landfill or other approved petroleum contaminated soil remediation facility. In the event there are large extensive areas of contaminated soils additional measures above and beyond the conditions of Ohio EPA's General Construction Storm Water Permit will be required. Depending on the extent of contamination, additional treatment and/or collection and disposal may be required. Hazardous substances spilled or released into the soil shall be dug up and disposed of at a licensed sanitary landfill.

Spill Reporting Requirements

Spills on pavement shall be absorbed with sawdust, kitty litter or other absorbent material and disposed of with the trash at a licensed sanitary landfill. Hazardous or industrial wastes such as most solvents, gasoline, oil-based paints, and cement curing compounds require special handling.

Spills shall be reported to Ohio EPA (1-800-282-9378). Spills of 25 gallons or more of petroleum products shall be reported to Ohio EPA (1-800-282-9378), the local fire department, and the Local Emergency Planning Committee within 30 min. of the discovery of the release. All spills, which result in contact with waters of the state, must be reported to OHIO EPA's Hotline.

Dust Control

Manufactured dust suppressants shall be applied at the manufactures specifications. Water trucks can additionally be used. Manufactured products shall be applied in a manner to not result in discharges to waters of the state. The suppressants shall not be applied if precipitation is noted in the short term forecast.

Clean Hard Fill

No construction related waste materials are to be buried on-site.

Open Burning

No materials may be burned which contain rubber, grease, asphalt, or petroleum products such as tires, cars, auto parts, plastics or plastic coated wire. Open burning is not allowed in restricted areas. Restricted areas are defined as: 1) within corporation limits; 2) within 1000 feet outside a municipal corporation having a population of 1000 to 10,000; and 3) a one mile zone outside of a corporation of 10, 000 or more. Outside a restricted area, no open burning can take place within a 1000 feet of an inhabited building located off the property where the fire is set. Open burning is permissible in a restricted area for the following activities: heating tar, welding and acetylene torches, smudge pots and similar occupational needs, and heating for warmth or outdoor barbeques. Outside of restricted areas, open burning is permissible for landscape wastes, land-clearing wastes, and agricultural wastes.

Off-site traffic

Temporary construction drives or the existing paved drives shall be utilized to assist with the prevention of off-site tracking of mud. Accumulated mud tracked beyond the limits of the project shall be removed on an as needed basis by the contractor. Collected mud shall be incorporated into the disturbance activities associated with the site and appropriately stabilized.

Other Air Permitting Requirements

All contractors and subcontractors must be made aware that certain activities associated with construction will require air permits. Activities including but not limited to mobile concrete batch plants, mobile asphalt plants, concrete crushers, large generators, etc., will require specific Ohio EPA Air Permits for installation and operation. These activities must seek authorization from the corresponding district of Ohio EPA. Notification for Restoration and Demolition must be submitted to Ohio EPA for all commercial sites to determine if asbestos corrective actions are required.

Process Waste Water/Leachate Management

All contractors shall be made aware that Ohio EPA's Construction General Permit only allows the discharge of storm water. Other waste streams/discharges including but not limited to vehicle and/or equipment washing, leachate associated with on-site waste disposal, concrete wash outs, etc are a process wastewater. They are not authorized for discharge under the General Storm Water Permit associated with Construction Activities. All process wastewaters must be collected and properly disposed at an approved disposal facility. In the event there are leachate outbreaks

associated with onsite disposal, measures must be taken to isolate this discharge for collection and proper disposal. Investigative measures and corrective actions must be implemented to identify and eliminate the source of all leachate outbreaks.

3.6 Inspections

Inspection of the temporary and permanent controls shall be conducted, at a minimum, once every seven days and within 24 hours of a 0.5" rain event or greater. The inspector shall have the proper knowledge and experience in the installation and maintenance of the controls and the permit requirements. Inspection frequency may be reduced to monthly for dormant sites if the entire site is temporarily stabilized or runoff is unlikely due to weather conditions for extended periods of time (e.g. frozen ground).

A report shall be completed for each inspection indicating the controls that have been installed, controls needing to be installed, maintenance required and indicate maintenance that has occurred. All preventative and remedial maintenance work, including clean out, repair, replacement, re-grading, reseeding, re-mulching and re-netting must be performed within three days of the inspection. Required maintenance work associated with sediment basins shall be conducted within ten days of the inspection. If erosion and sediment control BMPs fail to perform as expected, replacement BMPs, or modifications of those installed will be required. The permittee shall maintain the reports for a period of three years after the Notice of Termination form has been submitted. Inspection reports are located in Appendix F.

3.7 Erosion and Sediment Control BMP Maintenance

The temporary controls shall be maintained and repaired as indicated within the inspection reports to ensure proper functionality of the controls. The controls shall be maintained as indicated on the BMP details located on the erosion and sediment control plan within Appendix C. Maintenance shall be conducted until the upslope areas of the controls are permanently stabilized with permanent vegetation. Accumulated sediment shall be removed from the controls and utilized as fill material in non-structural areas. Maintenance conducted shall be recorded and filed within the SWPPP. If a control practice is in need of repair or maintenance, as indicated by inspection, it must be repaired or maintained within three days of inspection.

Temporary controls are to be removed upon permanent stabilization of the site. Permanent stabilizations consists of the establishment of permanent vegetation, decorative landscape mulch, matting, sod rip-rap and other landscaping techniques that provides permanent erosion control on areas where land disturbing activities are completed. Permanent stabilization by means of grass vegetation is established when a uniform perennial vegetative cover with a density of at least 70% is achieved.

Storm Sewer Inlet Protection: Accumulated sediment must be removed from the filter fabric to ensure that the protections drain properly. Damaged protections must be repaired or replaced. Maintenance work must be performed within three days of the inspection.

Construction Entrance: The minimum rock thickness of 6" shall be maintained throughout the utilization of the temporary entrance. Sediment deposited onto the paved roads shall be removed daily. Maintenance work must be performed within three days of the inspection.

Rock Check Dam: Rock check dams shall be placed where standing water or excessive siltation will be minimized or where damage to vegetative lining will be insignificant. Sediment shall be removed from behind check dam once it accumulates to one-half the original height of the check dam.

Sediment Fence: Accumulated sediment must be removed from the fence when the sediment reaches $\frac{1}{2}$ the above ground height of the fence. Undermined or overtopped fence must be repaired or replaced with a rock check dam. Maintenance work must be performed within three days of the inspection.

Dewatering Filter Bag: Filter bags and the associated perimeter controls are to be maintained throughout the duration of pumping activities. Bags shall be replaced once they have filled with sediment. Accumulated sediment within the bag shall be removed and placed on-site to dry. Spread soil and stabilize. The contractor shall monitor the outflow from the bags and through the perimeter controls and existing vegetated areas. If the quality of the water is “muddy” in appearance, then additional controls are required to be installed. Maintenance work must be performed immediately upon the inspection.

Temporary & Permanent Seeding: Seeded areas shall be inspected upon rain events to ensure areas are not washing out. Washed out areas shall be repaired and reseeded. Temporary sediment controls and/or erosion control matting may need to be utilized if washout problems routinely occur. Maintenance work must be performed within three days of the inspection.

APPENDIX A: Ohio EPA Approval Letter & General Permit



APPENDIX B: Contractor & Subcontractor SWPPP Acknowledgement Form

**TAYLOR STATION ROAD & CLAYCRAFT ROAD & RESEARCH
ROAD ROUNDABOUT**

**Storm Water Pollution Prevention Plan
Contractor & Subcontractor Acknowledgement**

"I have been informed of the terms and conditions of Ohio's storm water general permit for construction activities (the "Permit") and have reviewed and understand the conditions and responsibilities of this Storm Water Pollution Prevention Plan ("SWPPP"); I acknowledge my responsibilities under the Permit and SWPPP."

Company Name: _____

Signature: _____

Printed Name: _____

Date: _____

SWPPP Role: _____

Company Name: _____

Signature: _____

Printed Name: _____

Date: _____

SWPPP Role: _____

Company Name: _____

Signature: _____

Printed Name: _____

Date: _____

SWPPP Role: _____



APPENDIX C: Erosion & Sediment Control Plan & Best Management Practice Details

[illegible]

LATITUDE: 39°59'32.87"N
LONGITUDE: 82°50'24.03"W



DESIGN DESIGNATION

TAYLOR STATION ROAD

CLAYCRAFT ROAD

RESEARCH ROAD

INDEX OF SHEETS:

CITY OF GAHANNA APPROVAL

THE SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

DIRECTOR OF ENGINEERING CITY OF GAHANNA

WATER RESOURCES ENGINEER CITY OF CAHANNA

DIRECTOR OF PUBLIC SERVICE CITY OF CAHANINA _____ DATE _____

Reconstruction of the Claycraft Road & Taylor Station intersection as a roundabout including asphalt paving, curbs, landscape, storm sewer, water main, and street lighting.

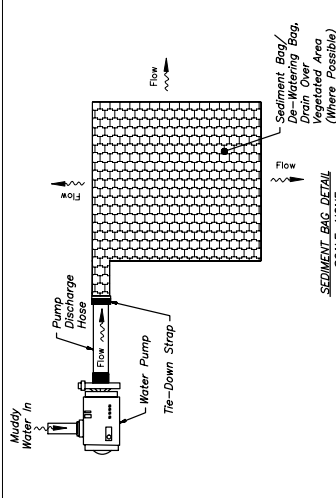
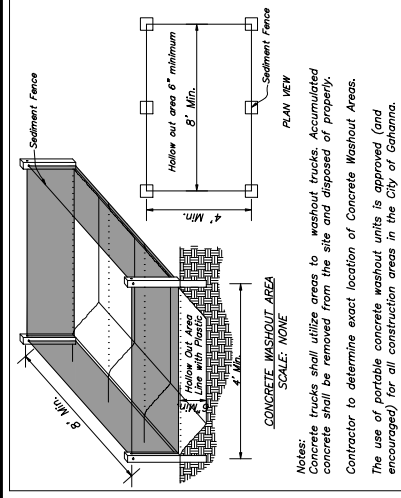
Project earth disturbed area: 2.05 ACRES
Estimated contractor earth disturbed area: 0.00 ACRES
Notice of intent earth disturbed area: 2.05 ACRES

The City Of Columbus Construction and Materials Specifications (CMSC), 2018 edition including all revisions and supplements in effect at the time of plan approvals, shall govern all construction items that are a part of this plan unless noted otherwise.

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS	
CITY OF COLUMBUS										COLUMBUS	
ENGINEER'S SEAL:										SPECIAL PROVISIONS	
AA-S102	12/06/13	L-6316A	01/26/18	2000	03/30/18	MIS	BP--5.1	07/17/20	1524	5/4/2014	
AA-S103	06/08/14	L-6316B	01/26/18	2020	07/01/21	MIS--54	01/01/18	07/17/20	1524	5/4/2014	
AA-S104	06/08/14	L-6316B	01/26/18	2161	04/30/18	MIS--55	01/01/18	07/17/20	1530	11/8/2019	
AA-S107	07/09/12	L-6409A	01/26/18	2187	07/01/21	MIS--54	01/01/18	07/17/20	1530	11/8/2019	
AA-S112	12/06/13	L-6637A	01/26/18	2191	07/01/21	MIS--201	01/01/18	07/17/20	1630	11/13/2009	
AA-S117	07/09/12	L-6640	01/26/18	2191	07/01/21	MIS--404	01/01/18	07/17/20	1630	11/13/2009	
AA-S119	06/08/14	L-7102A	01/26/18	2195	03/30/18	MIS--901	01/01/18	07/17/20	1630	11/13/2009	
AA-S125A	06/08/14	L-7102B	01/26/18	2202	07/01/22	MIS--603	01/01/18	07/17/20	1630	11/13/2009	
AA-S128	06/08/14	L-7102C	01/26/18	2211	03/30/18	MIS--800	01/01/18	07/17/20	1630	11/13/2009	
AA-S133A	06/08/14	L-7401	11/14/18	2230	04/30/18	MIS--800	01/01/18	07/17/20	1630	11/13/2009	
AA-S139	12/06/13	L-8502	01/26/18	2310	07/01/21	MIS--1010	01/01/18	07/17/20	1630	11/13/2009	
L-6309A	01/26/18	1500	09/15/15	2319	07/01/22	1500	01/01/18	07/17/20	1630	11/13/2009	
L-6310	01/26/18	1520	09/15/15	2331	07/01/22	1520	01/01/18	07/17/20	1630	11/13/2009	
L-6311	01/26/18	1540	09/15/15	4164	10/01/20	1540	01/01/18	07/17/20	1630	11/13/2009	
L-6312	01/26/18	1550	09/15/15	4293	05/01/14	1550	01/01/18	07/17/20	1630	11/13/2009	

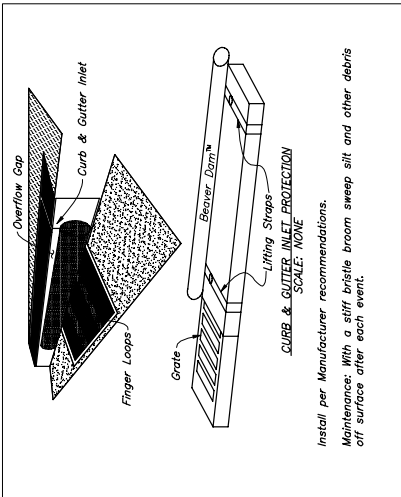
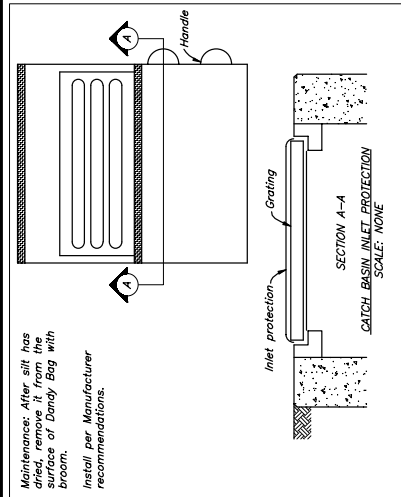
PREPARED BY:



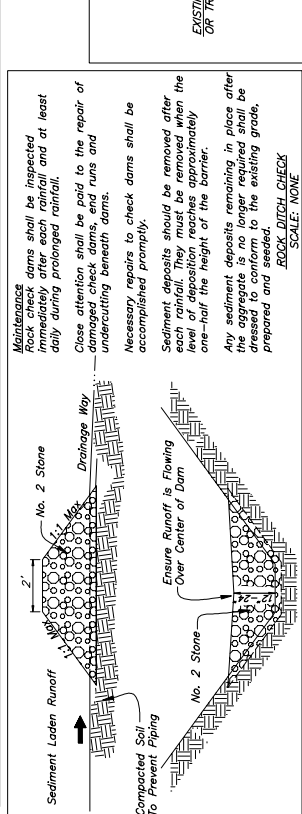
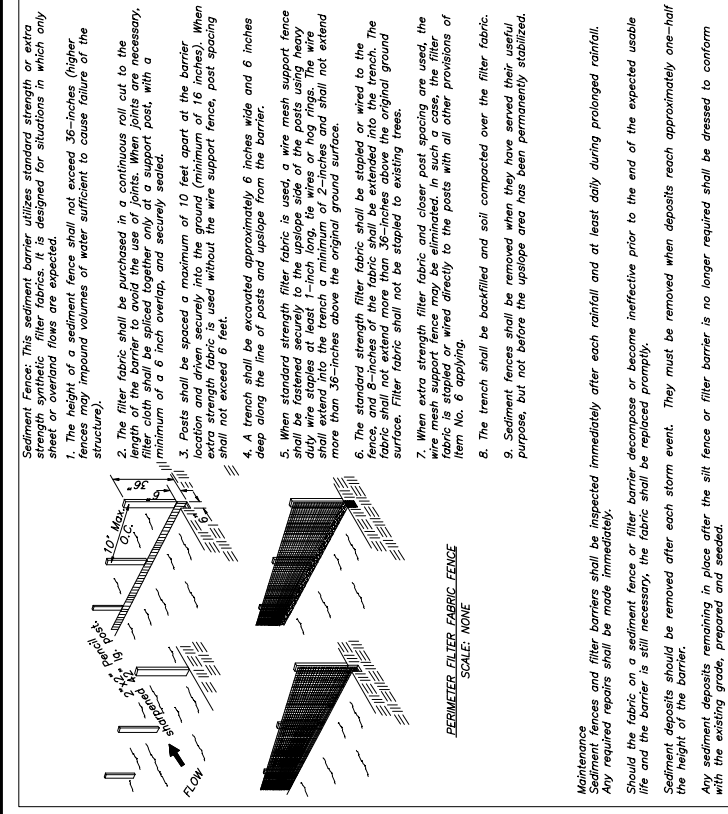
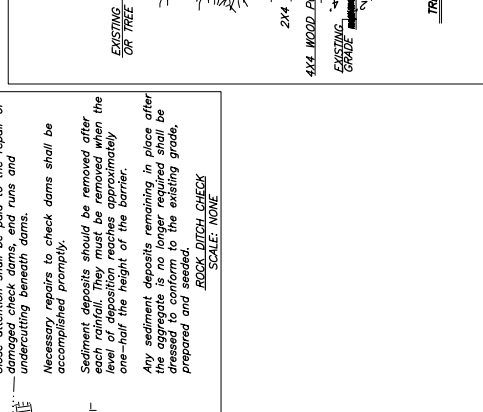


All inlets receiving flow from runoff, pumping activities, or other direct discharges shall be fitted with an inlet protection device that is properly sized and secured to reduce the discharge of sediment into the storm sewer system and receiving stream. Inlet protection is required on all inlets receiving discharge regardless of whether or not the inlet is tributary to any downstream erosion and sediment controls.

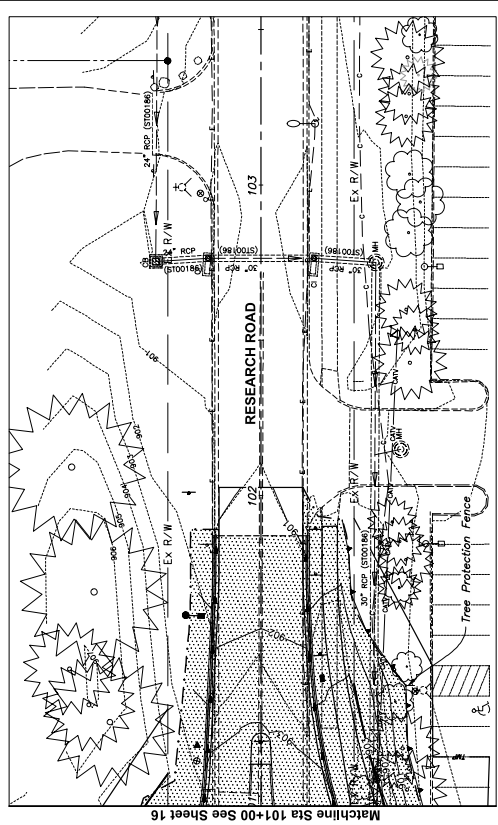
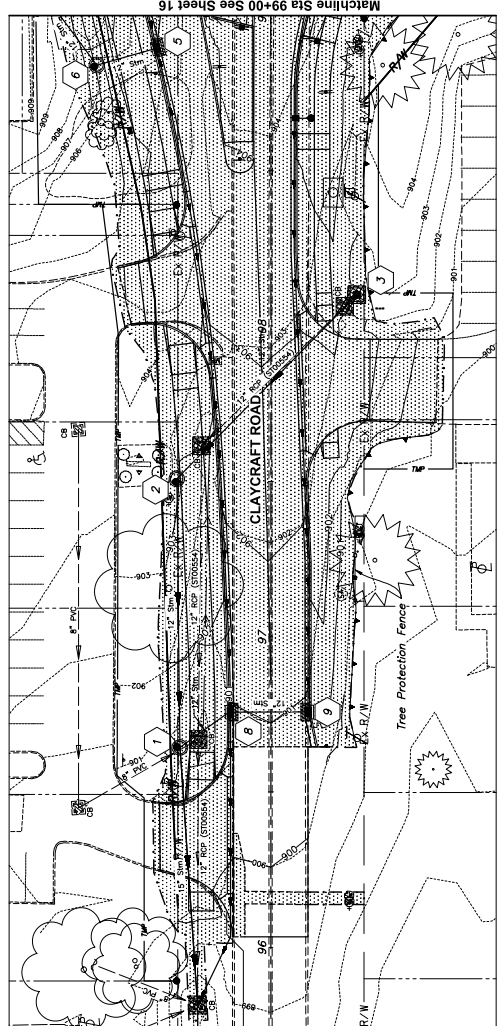
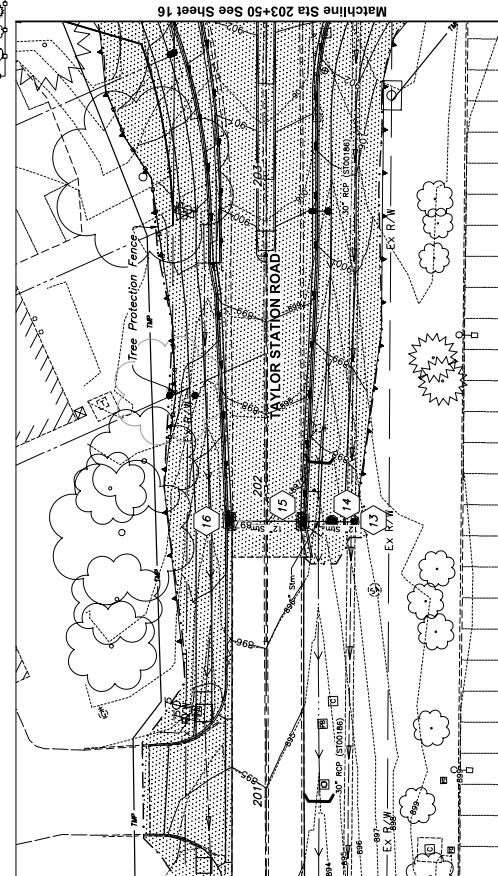
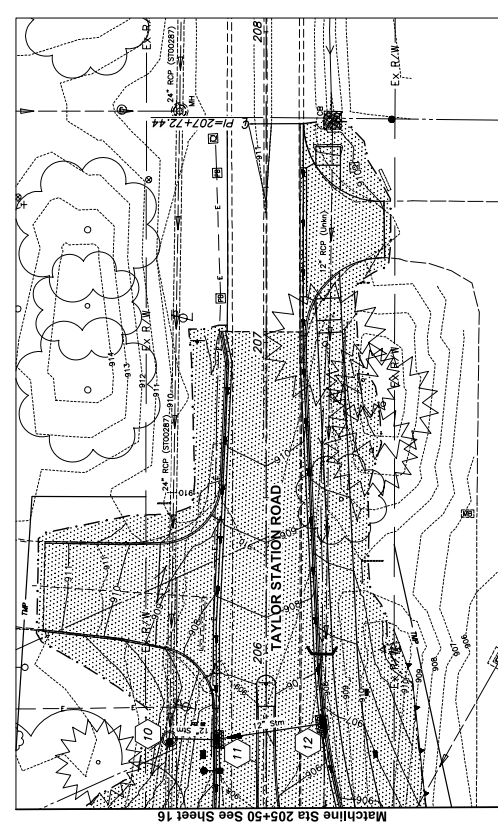
Discharge hoses during pumping activities shall be fitted with sediment bags that are properly sized per manufacturer's recommendations regardless of what other sediment controls are in place further downstream. Sediment bags must be properly secured to the discharge hose and placed over vegetated areas, where feasible.



- ITEM SPECIAL - TREE PROTECTION FENCE
- The Contractor shall be responsible for the fencing where shown on plan. Fenced areas shall be considered "Tree Protection Areas".
 - Fencing shall remain in place and be secured in an upright position during the entire construction period to prevent the impingement of construction vehicles, materials, spoils, and equipment into or upon the tree preservation area.
 - During all phases of construction, all steps to prevent the destruction or damage to protected trees shall be taken. No construction activity, movement and/or placement of equipment, vehicles, materials or spoils shall be permitted within the tree preservation area. No excess soil, additional fill, liquids, or construction debris shall be placed within the critical root zone of all trees that are to be preserved.
 - No attachments, including but not limited to ropes, nails, advertising posters, signs, fences, or wires (other than those used for bracing, guying or wrapping) shall be attached to any tree.
 - No gaseous liquids or solid substances which are harmful to trees shall be permitted within the tree preservation area.
 - No fire or heat shall be permitted within the tree preservation area.
 - Construction, installation, maintenance, and removal of fence shall be paid for in Item Special, Tree Protection Fence.



EROSION CONTROL PLAN



LEGEND

- | Project Units | Filter Fabric Fence | Rock Ditch Check | Storm Sewer Inlet Protection (Beaver Dam or Approved Equal) | Storm Sewer Inlet Protection (Dandy Bag or Approved Equal) | Limits of Disturbance | Tree Protection Fence |
|---------------|---------------------|------------------|---|--|-----------------------|-----------------------|
| | | | | | | |

APPENDIX D: Water Quality Calculations



Ohio Department of Transportation - Office of Hydraulic Engineering

Post-Construction BMP Calculation Spreadsheet

Post Construction - Project Summary

Project Data

Project EDA	2.05	Units acres
Is the Project Routine Maintenance per L&D Vol. 2, Sec. 1112.2	No	
BMPs Required?	BMPs Required	NA
Ain (New Impervious Area in New Permanent R/W	0.177	acres
Does Entire Site Drain to Large River (>100 sq. miles)?	No	
Water Quality Treatment Required	Yes	
Water Quantity Treatment Required	No	

Treatment Percent and Treatment Requirement

Aix (Project EDA that is inside the existing right-of-way)	1.6	acres
Ain (New Impervious Area in New Permanent R/W)	0.177	acres
T% (Treatment Percent)	27.97	%
Treatment Requirement	0.57	acres

BMPs Provided

BMP Name	BMP Type	Contributing Drainage Area (acres)	Contributing Drainage Area in ODOT R/W (acres)
	Manufactured System	0.58	0.57

Treatment Provided

Total Area with ODOT R/W Treated (acres)	0.57
Treatment Requirements (acres)	0.57
Treatment Check	Good

BMP Submittal Requirements (Per L&D, Vol. 2, Sec. 1116.2)

1. Estimated Project Earth Disturbed Area	Yes	Good
2. Treatment Percent Calculation	Yes	Good
3. BMP Selected for use	Yes	Good
4. Drainage area mapping for post-construction BMPs that show the total contributing drainage area and the amount of contributing area within ODOT right-of-way	Yes	Good
5. Plan sheets showing locations of post-construction BMP	Yes	Good
6. Calculations for each BMP	Yes	Good
7. Explanation for any area that is not treated	Yes	Good



Water Quality Flow Rate (WQ_F)

Drainage Area #1	Area (acres)	Coefficient of Runoff (C)
Tributary Area within Existing R/W	0.53	0.9
Impervious Trib. Area Outside Existing R/W	0.02	0.9
Tributary Area Land Use #3	0.03	0.5
Tributary Area Land Use #4	0.00	0.3
Total Tributary Area	0.58	0.879
BMP Type	Manufactured System	
Time of Concentration (minutes)	10	
Intensity, i (in/hr)	1.85	
Water Quality Flow (WQ _F)	0.944	cfs

Drainage Area #2	Area (acres)	Coefficient of Runoff (C)
Tributary Area within Existing R/W		0.9
Impervious Trib. Area Outside Existing R/W		0.9
Tributary Area Land Use #3		
Tributary Area Land Use #4		
Total Tributary Area		
BMP Type	Manufactured System	
Time of Concentration (minutes)	10	
Intensity, i (in/hr)	1.85	
Water Quality Flow (WQ _F)		cfs

Drainage Area #3	Area (acres)	Coefficient of Runoff (C)
Tributary Area within Existing R/W		0.9
Impervious Trib. Area Outside Existing R/W		0.9
Tributary Area Land Use #3		
Tributary Area Land Use #4		
Total Tributary Area	0.00	
BMP Type		
Time of Concentration (minutes)		
Intensity, i (in/hr)		
Water Quality Flow (WQ _F)		cfs

Drainage Area #4	Area (acres)	Coefficient of Runoff (C)
Tributary Area within Existing R/W		0.9
Impervious Trib. Area Outside Existing R/W		0.9
Tributary Area Land Use #3		
Tributary Area Land Use #4		
Total Tributary Area	0.00	
BMP Type		
Time of Concentration (minutes)		
Intensity, i (in/hr)		
Water Quality Flow (WQ _F)		cfs



Manufactured Systems

Drainage Area #	Total Tributary Area (acres)	Tributary Area within R/W (acres)	WQ _F (cfs)	Required Manufactured System Type	Manufactured System Type Provided
A1	0.58	0.57	0.944	1	1
A2					1
A3					
A4					
A5					

Yellow: Requires Input (See instructions tab)

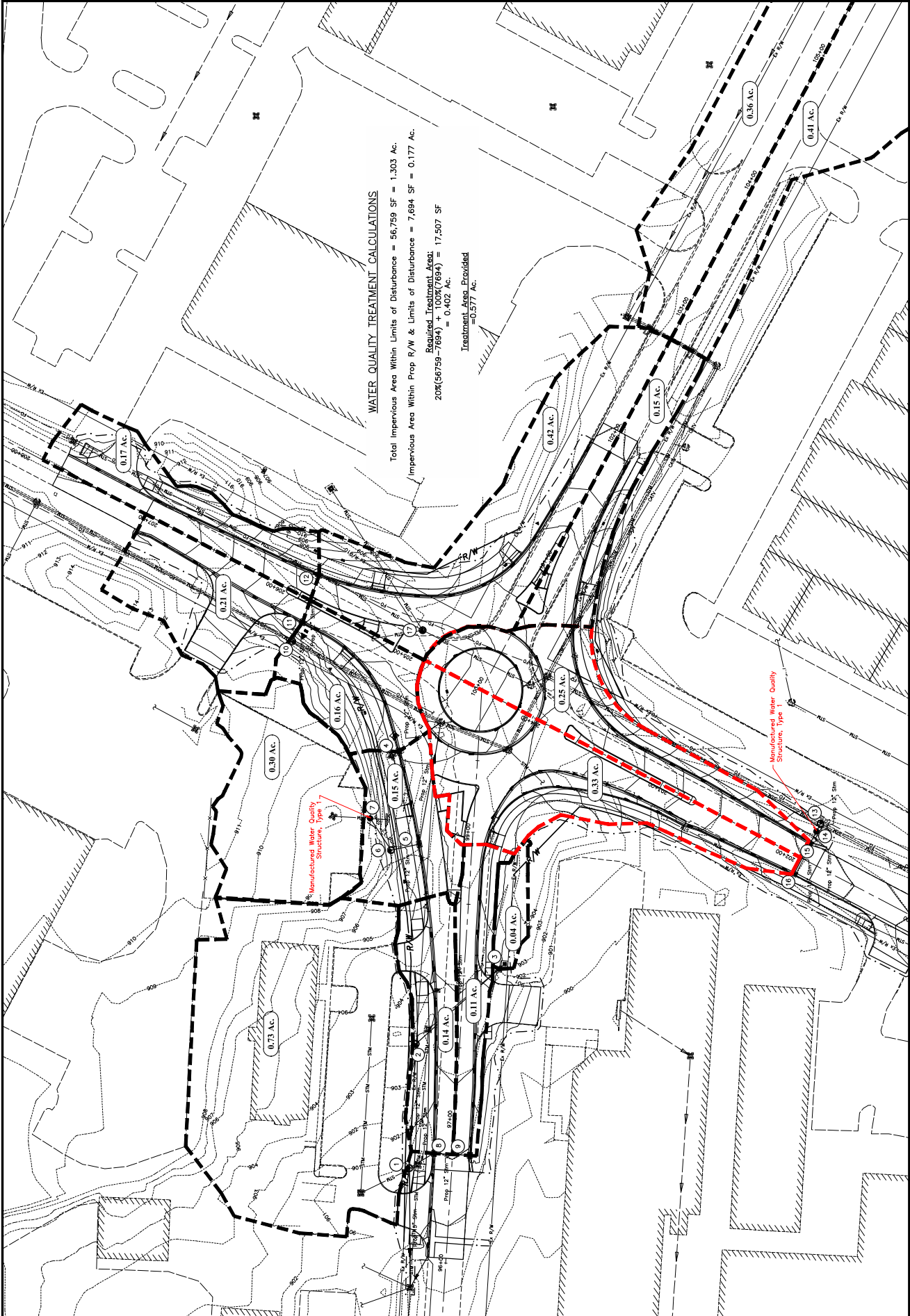
Total Area Treated by Manufactured Systems (within the right-of-way)

0.57 acres

(Treatment is for quality only, not quantity)

BMP Design Considerations

1. Does the Water Quality flow rate match the system type in L&D Table 1117-1?	Yes	Good
2. Is the Water Quality flow rate greater than 6 cfs including all contributing area?	No	Good
3. Is the manufactured system located under a traffic lane?	No	Good
4. Is the storm sewer draining to the manufactured system deeper than 10 feet?	No	Good
5. Is there clear maintenance access to the manufactured system?	Yes	Good



Total Imperious Area Within Limits of Disturbance = 56,759 SF = 1,303 Ac.
 Imperious Area Within Prop R/W & Limits of Disturbance = 7,694 SF = 0.177 Ac.
 Required Treatment Area:
 $20\% (56,759 - 7,694) + 100\% (7,694) = 17,507 \text{ SF}$
 $= 0.402 \text{ Ac.}$
 Treatment Area Provided
 $= 0.577 \text{ Ac.}$

Manufactured Water Quality Structure, Type 17

Manufactured Water Quality

APPENDIX F: Land Disturbance and Stabilization Activities Log

TAYLOR STATION ROAD & CLAYCRAFT ROAD & RESEARCH ROAD ROUNDABOUT LAND DISTURBANCE AND STABILIZATION ACTIVITIES LOG

[illegible]

APPENDIX G: Inspection Reports

EROSION & SEDIMENT CONTROL SITE INSPECTION

TAYLOR STATION ROAD & CLAYCRAFT ROAD & RESEARCH ROAD ROUNDBABOUT

Inspector:	Name:	Company:	Phone:

Site Contact:	Name:	Company:	Phone:

Date:		Time Arrived:	
Site Conditions:			
Construction Activity:			

Construction Entrance/Exit	
• Has a stabilized exit been established?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
• Is the exit blocking existing drainage?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
• Does the exit need top dressed with additional stone?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
• Is mud noted on offsite streets?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Comments:	

Concrete Washout Area	
• Has designated area been established?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
• Is washwater overflowing?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Comments:	

Dewatering Activities	
• Is muddy water being pumped into storm sewers/surface waters?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Comments:	

Check Dams	
• Is runoff flowing around the ends of the check dams?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
• Does accumulated sediment need to be removed?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Comments:	

EROSION & SEDIMENT CONTROL SITE OBSERVATION

Project: Taylor Station Road & Claycraft Road & Research Road Roundabout **Date:**

Perimeter Controls - Sediment Fence/Straw Wattles	
<ul style="list-style-type: none"> Has sediment fence been properly installed – trenched, backfilled, tight? 	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<ul style="list-style-type: none"> Are gaps present in the fence or runoff flowing under the fence? 	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<ul style="list-style-type: none"> Does the fence need to be repaired or installed? 	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Comments:	

Storm Sewer Inlet Protection	
<ul style="list-style-type: none"> Have inlets been protected? 	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<ul style="list-style-type: none"> Are they damaged or in need of replacement? 	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<ul style="list-style-type: none"> Does accumulated sediment need removed from the protection? 	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Comments:	

Soil Stabilization	
<ul style="list-style-type: none"> Does it appear that disturbed areas have been idle for more than 14 days? 	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<ul style="list-style-type: none"> Are disturbed areas present within 50' of a stream? 	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<ul style="list-style-type: none"> Are disturbed areas present that are to remain idle over the winter? 	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<ul style="list-style-type: none"> Are soil stockpiles present on site? 	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
<ul style="list-style-type: none"> Does it appear that areas are at final grade and need stabilized? 	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Comments:	

Additional Comments:

“I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Inspector Signature: _____ **Date:** _____

APPENDIX H: SWPPP Amendment Log

APPENDIX I: Post-construction Water Quality Operation & Maintenance Plan

ODOT Manufactured Water Quality Structure, Type 1

Insert Manufacturers Operation and Maintenance Manual once proprietary device is selected.

ADS Barracuda Hydrodynamic Separator S4 Model Maintenance Manual is included for reference.

Barracuda[®] Max & Barracuda Maintenance Guide

One of Barracuda's advantages is the ease of maintenance. Like any system that collects pollutants, the Barracuda must be maintained for continued effectiveness. Maintenance is a simple procedure performed using a vacuum truck or similar equipment. The systems were designed to minimize the volume of water removed during routine maintenance, reducing disposal costs.

Contractors can access the pollutants stored in the manhole through the manhole cover. This allows them to gain vacuum hose access to the bottom of the manhole to remove sediment and trash. There is no confined space entry necessary for inspection or maintenance.

The entire maintenance procedure typically takes 2 to 4 hours, depending on the system's size, the captured material, and the vacuum truck's capacity.

Local regulations may apply to the maintenance procedure. Safe and legal disposal of pollutants is the responsibility of the maintenance contractor. Maintenance should be performed only by a qualified contractor.

Inspection and Cleaning Cycle

Periodic inspection is needed to determine the need for and frequency of maintenance. You should begin inspecting as soon as construction is complete and then on an annual basis. Typically, the system needs to be cleaned every 1-3 years.

Excessive oils, fuels or sediments may reduce the maintenance cycle. Periodic inspection is important.

Determining When to Clean

To determine the sediment depth, the maintenance contractor should lower a stadia rod into the manhole until it contacts the top of the captured sediment and mark that spot on the rod. Then push the probe through to the bottom of the sump and mark that spot to determine sediment depth.

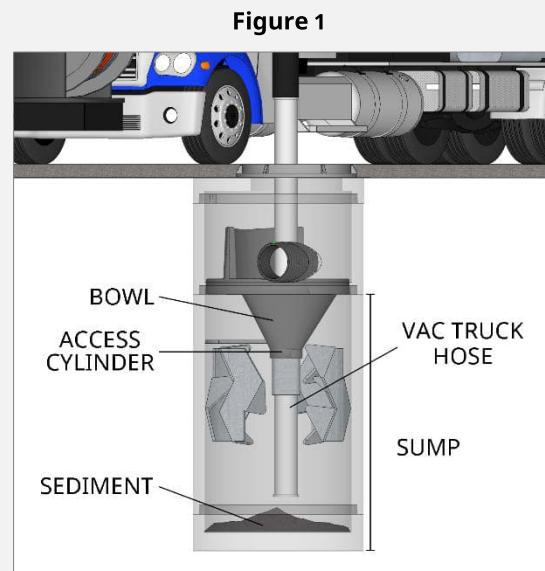
Maintenance should occur when the sediment has reached the levels indicated in the Storage Capacity Chart.

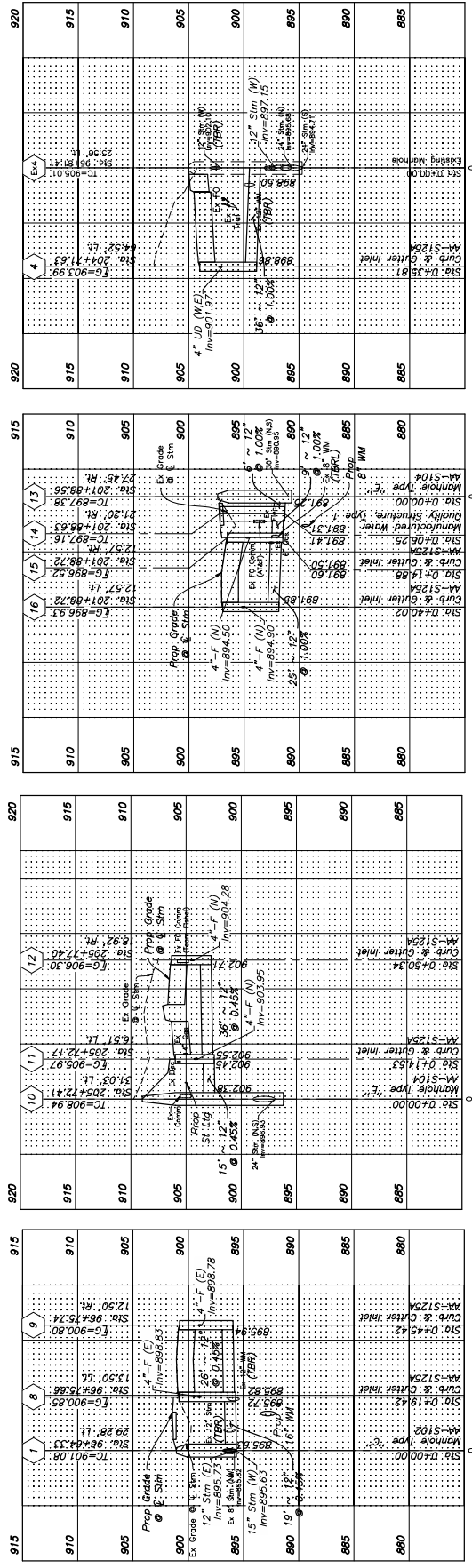
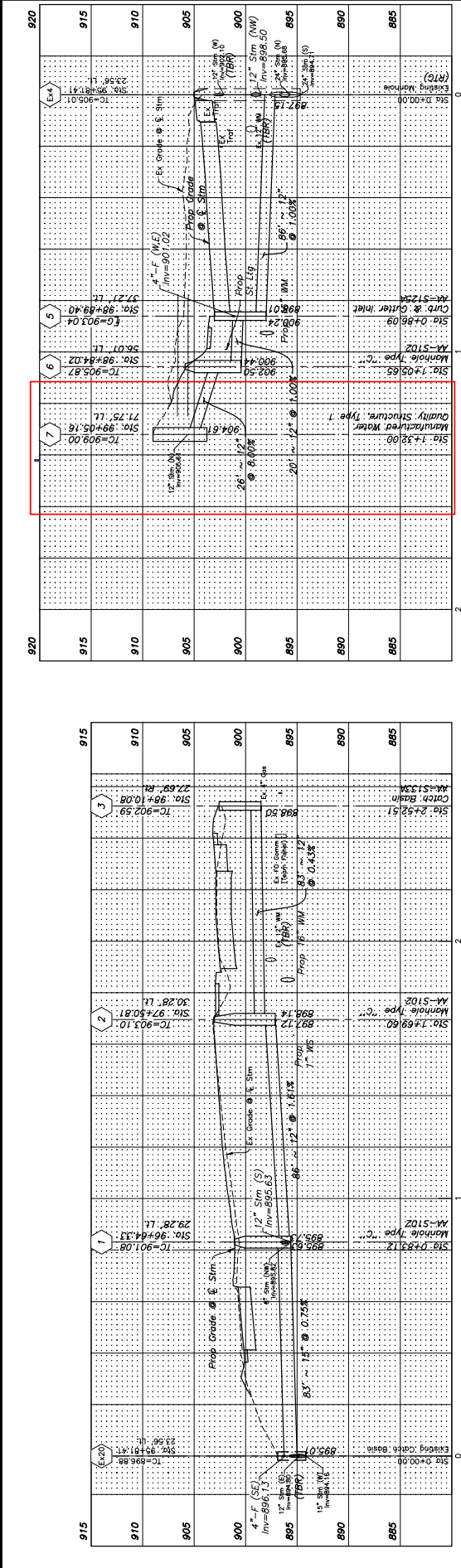
Barracuda Storage Capacities

Model	Manhole Diameter in. (mm)	Total System Volume Gallons (Liters)	Treatment Chamber Capacity Gallons (Liters)	Standard Sediment Capacity (20" depth) Yards ³ (meters ³)	NJDEP Sediment Capacity (50% of standard depth) Yards ³ (meters ³)
S3	36 (900)	264 (999)	212 (803)	0.44 (0.34)	0.22 (0.17)
S4	48 (1200)	665 (2517)	564 (2135)	0.78 (0.60)	0.39 (0.30)
S6	72 (1800)	1497 (5667)	1269 (4804)	1.75 (1.34)	0.88 (0.67)
S8	96 (2400)	4196 (15884)	3835 (14517)	3.10 (2.37)	1.55 (1.19)

Maintenance Instructions

1. Remove the manhole cover to provide access to the pollutant storage. Pollutants are stored in the sump, below the bowl assembly visible from the surface. Access this area through the 8" (200 mm), 10" (250 mm), 15" (375 mm) or 20" (500 mm) diameter access cylinder.
2. Use a vacuum truck or other similar equipment to remove all water, debris, oils and sediment. See figure 1.
3. Use a high pressure hose to clean the manhole of all the remaining sediment and debris. Then, use the vacuum truck to remove the water.
4. Fill the cleaned manhole with water until the level reaches the invert of the outlet pipe.
5. Replace the manhole cover.
6. Dispose of the polluted water, oils, sediment and trash at an approved facility.
 - a. Local regulations prohibit the discharge of solid material into the sanitary system. Check with the local sewer authority for authority to discharge the liquid.
 - b. Some localities treat the pollutants as leachate. Check with local regulators about disposal requirements.
 - c. Additional local regulations may apply to the maintenance procedure.





Notes:

Contractor shall take care to orient manhole lids as shown on the plan sheets.

All backfill shall be Item 912 Compacted Granular Material.

For manholes, station offset references center of base.

For curb and gutter inlets, station offset refers to middle of structure at face of curb at face of curb.

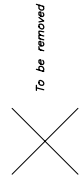
For grate inlets, station offset refers to middle of structure at face of curb.

The identity and location of existing underground utilities have been shown as accurately as possible. Engineer and Consultant assume no responsibility for the accuracy and completeness of the information shown on the plan sheets.

LEGEND:
TC= Top of Casting
fG= Flow line Grate (Elev. at Face of Curb)

Legend

- Proposed Concrete Walk (T=8')
- Concrete Walk (T=5')
- Asphalt Path
- Conc Drive Apron
- Asph Driveway
- Full Depth Asph Pavement
- Proposed Truck Apron Pavement
(Brick Pavers on Concrete Base)
- Concrete Median
- Asphalt Mill and Overlay



To be removed

Commercial Sign Coded Notes

- Base Curb (TBR)
- Base Curb Shipping & Receiving (TBR)
- Base Curb Shipping & Receiving (TBR)
- Taylor Station Commerce Center (TBR)

- Existing Outlet Control
Structure to be Removed.
- Relocated Franklin
Emergency Notification
Siren on Relocated AEP
Pole.
- Contractor to field locate
existing water service and
water service prior to
excavation for water transfer
structure.
- Manufactured Water Quality
Structure, Type 1
- Replace existing catch basin
with Manhole Type E' M-S104

- TC-905.12 (NHE) 902.38
- Ex 12" RCP (SSW) 902.37
- Ex 12" RCP (SSW) 902.38
- Ex 12" RCP (SSW) 902.38
- Ex 8" C&G (N) 902.35



Water Quality
Unit

APPENDIX E

Owner-Contractor Agreement
EJCDC Standard General Conditions

OWNER-CONTRACTOR AGREEMENT

Contract Terms Sheet

Owner: City of Gahanna 200 South Hamilton Road Gahanna, Ohio 43230 Phone: (614) 342-4005 Owner's Representative: Tom Komlanc	Contractor: Contractor Representative:
Project Name: Taylor Station Road-Claycraft Road Roundabout, ST-1087	
Contract Effective Date:	
<u> x </u> When this item is checked by the Owner, e.g., with an "X" or other mark, the State of Ohio Department of Transportation, Construction Specifications Manual, in the current version through January 11, 2024, will be a Contract Document, but only as modified by the document titled <i>ODOT Manual Supplement</i> , prepared by Owner.	
<u> x </u> When this item is checked by the Owner, e.g., with an "X" or other mark, the City of Columbus Construction and Material Specifications Supplement, in the current edition through January 11, 2024, will be a Contract Document, but only as modified by the document titled <i>City of Columbus Construction and Material Specifications Supplement</i> .	
Non-Contract Documents. The following are the reports and tests of subsurface conditions at or contiguous to the Site, if any, that the Design Professional has used in preparing the Contract Documents. (None, if none are listed). <u>SWPPP Manual</u> <u>Geotech Report</u>	
Non-Contract Documents. The following are those reports and drawings related to any Hazardous Conditions at the Site, if any. (None, if none are listed). _____ _____	
The Design Professional (also called the "Consulting Engineer") is: EMH&T 5500 New Albany Road Columbus, OH 43054 614-512-3817 If no other individual is named, then the City Engineer shall be considered to be the Project Design Professional.	
The Design Professional's Representative is: Andy Kushmeider, PE	
The Date for Substantial Completion is the following date or the following Contract Time (in calendar days): November 1, 2024	
The Coordinating Contractor shall be the _____ Contractor. (If this blank is not completed, then the Coordinating Contractor shall be the General Trades Contractor or, if there is only one contractor, the Contractor).	

The Contract Sum (also called Contract Price) is: Two Million One Hundred Ninety Six Thousand, Eight Hundred Ninety Eight Dollars and Fifty Cents. The Contract Sum includes the following:

Base Bid Amount: \$2,196,898.50

Accepted Alternates, if any (none if none are listed):

Alternate No.	Description	Amount
1	Portable Message Boards	\$94,000.00

This document is an agreement between the Owner and the Contractor for the Work described in the Contract Documents related to the Contract identified above for the Project defined above and is effective as of the date set forth above ("Effective Date of this Agreement"), which if no date is entered shall be the date the Agreement was signed by the Owner.

The Owner and the Contractor agree as set forth in the following sections:

1. CONTRACT DOCUMENTS. The Contract Documents consist of the following documents:

1. NOTICE TO BIDDERS;
2. INFORMATION AND REQUIREMENTS FOR BIDDERS;
3. REQUEST FOR INFORMATION (PRE-BID);
4. SUPPLEMENTARY SPECIFICATIONS;
5. PREVAILING WAGE RATES (as applicable);
6. BID FORM;
7. NONCOLLUSION AFFIDAVIT;
8. CORPORATE AFFIDAVIT;
9. CONTRACTOR'S PERSONAL PROPERTY TAX AFFIDAVIT (O.R.C. § 5719.042);
10. CERTIFICATE OF INSURANCE;
11. STATE OF OHIO DEPARTMENT OF TAXATION, SALES AND USE TAX CONSTRUCTION CONTRACT EXEMPTION CERTIFICATE;
12. CONTRACTOR'S QUALIFICATION STATEMENT;
13. SUB CONTRACTORS LIST;
14. OWNER-CONTRACTOR AGREEMENT;
15. FISCAL OFFICER'S STATEMENT OF AVAILABILITY;
16. MODIFIED STANDARD GENERAL CONDITIONS;
17. STATE OF OHIO BUREAU OF WORKER'S COMPENSATION INSURANCE CERTIFICATE;
18. NOTICE OF COMMENCEMENT OF PUBLIC IMPROVEMENT;
19. NOTICE OF AWARD TO CONTRACTOR;
20. NOTICE OF AWARD TO SURETY AND SURETY'S AGENT;
21. NOTICE TO PROCEED;
22. CHANGE ORDER;
23. PAYROLL INFORMATION;
24. FINAL PAYROLL AFFIDAVIT;
25. CONTRACTOR'S PAYMENT APPLICATION CHECKLIST;
26. CONTRACTOR'S AFFIDAVIT WITH LIST OF SUBCONTRACTORS AND SUPPLIERS WITH ANY AMOUNTS WITHHELD;
27. CONTRACTOR'S WAIVER & RELEASE AGREEMENT;
28. SUBCONTRACTOR'S – SUPPLIER'S WAIVER & RELEASE AGREEMENT;
29. STATEMENT OF CLAIM FORM;
30. STATEMENT OF CLAIM FORM INSTRUCTIONS;
31. DESIGN PROFESSIONAL'S CERTIFICATE OF SUBSTANTIAL COMPLETION;

32. MODIFICATIONS ISSUED AFTER THE EXECUTION OF THE CONTRACT, INCLUDING:
 - i. A written amendment to the Agreement signed by both parties;
 - ii. A Change Order;
 - iii. A Work Change Directive; or,
 - iv. A written order for a minor change of the Work issued by the Design Professional in accordance with the General Conditions; and
33. If selected as a Contract Document in the Contract Terms Sheet, the State of Ohio Department of Transportation, Construction Specifications Manual, in the current version through February 9, 2023, will be a Contract Document, but only as modified by the document titled *ODOT Manual Supplement*, prepared by Owner;
34. If selected as a Contract Document in the Contract Terms Sheet, the City of Columbus Construction and Material Specifications Supplement, in the current edition through February 9, 2023, will be a Contract Document, but only as modified by the document titled *City of Columbus Construction and Material Specifications Supplement*; and
35. THE PROJECT PLANS, DRAWINGS, AND EXHIBITS.

Note: NON-CONTRACT DOCUMENTS. The reports and tests of subsurface conditions at or contiguous to the Site, if any, that the Design Professional has used in preparing the Contract Documents, identified in the Contract Terms Sheet, are not Contract Documents. The General Conditions, as modified, contain additional terms related to these reports and tests.

Note: NON-CONTRACT DOCUMENTS. The reports and drawings related to any Hazardous Conditions at the Site, if any, identified in the Contract Terms Sheet, are not Contract Documents. The General Conditions, as modified, contain additional terms related to these reports and drawings. (None if none are listed).

2. **DESIGN PROFESSIONAL RELATIONSHIP.** The Contract Documents shall not be construed to create a contractual relationship of any kind between the Design Professional and the Contractor or any Subcontractor or Material Supplier to the Project. The Design Professional, however, shall be entitled to performance of the obligations of the Contractor intended for its benefit and to enforcement of such obligations, but nothing contained herein shall be deemed to give the Contractor or any third party any claim or right of action against the Design Professional that does not otherwise exist without regard to this Contract. The Contractor and its Subcontractors shall not be deemed to be beneficiaries of any of the acts or services of the Design Professional that are performed for the sole benefit of the Owner. The Contractor shall forward all communications to the Owner through the Design Professional and hereby acknowledges and agrees that any instructions, reviews, advice, approvals, orders, or directives that are rendered to it by the Design Professional are specifically authorized and directed by the Owner to the Contractor through the Design Professional acting on behalf of the Owner.

2.1 The Design Professional (also called the "Consulting Engineer"), if any, is identified in the Contract Terms Sheet.

3. TIME FOR COMPLETION AND PROJECT COORDINATION.

3.1 DATE FOR COMMENCEMENT. The date for commencement of the Work shall be the date established in a written Notice to Proceed issued by the Owner, through the Design Professional, to the Contractor. If no Notice to Proceed is issued, then the date for commencement shall be the Effective Date of this Agreement. The date for commencement of the Work shall be within sixty (60) days from the bid opening date, unless the Owner and the Contractor agree to a later date. If there is any other date for commencement of the Work in the bid documents, Contract Documents or elsewhere, it is agreed that such other date is a tentative date and may not be relied upon by the Contractor. If the date for commencement of the Work is later than sixty (60) days from the bid opening date or, if applicable, the later date agreed to by the Owner and the Contractor, the Contractor may submit a Claim in accordance with the Contract Documents.

3.2 DATE FOR SUBSTANTIAL COMPLETION. The Contractor shall have its Work on the Project Substantially Complete by the following date or within the following Contract Time (in calendar days) set forth in the Contract Terms Sheet. The Date for Substantial Completion is the foregoing date or date calculated using the Contract Time. The Date for Substantial Completion shall only be changed or modified by Change Order, other Modification, or a Claim that is Finally Resolved regardless of any dates in any schedule created by any person, including the Coordinating Contractor. The Contract Time shall run from the date of the Notice to Proceed or if there is no Notice to Proceed from the Effective Date of this Agreement.

3.2.1 Substantial Completion is the time at which the Work has progressed to the point where the Work is sufficiently complete, in accordance with the Contract Documents, so that the Work can be utilized for the purposes for which it is intended. Final Completion shall mean that the Work is complete in accordance with the Contract Documents and the Contractor has submitted to the Design Professional all documents required to be submitted to the Design Professional for final payment. A Claim is "Finally Resolved" when the claim process is complete and not subject to further proceedings.

3.2.2 SHUTDOWN DATES. Due to events scheduled by the Owner and/or other Owner considerations, Contractor must only perform Work on the days and at the times allowed by the Ordinances of the City of Gahanna. Additionally, Contractor will not be able to perform Work on the Project on the dates and times delineated in the Supplementary Specifications to these Contract Documents.

Contractor's Construction Schedule for performing the Work shall account for Contractor not being able to perform Work on these dates and the contractual dates for Substantial Completion and Final Completion will not be changed due to Contractor not being able to perform Work on these dates.

3.3 CONSTRUCTION SCHEDULE. The Construction Schedule (also referred to as the "Progress Schedule") shall be developed by the Coordinating Contractor as provided in the Contract Documents.

3.4 COORDINATING CONTRACTOR. The Coordinating Contractor shall be the contractor identified in the Contract Terms Sheet (if none is identified, then the Coordinating Contractor shall be the General Trades Contractor or, if there is only one contractor, the

Contractor). The Coordinating Contractor shall be responsible for coordinating the work of all contractors on the Project.

3.5 **LIQUIDATED DAMAGES**. If the Contractor does not have its Work on the Project Substantially Complete by its Date for Substantial Completion or Finally Complete within forty-five (45) days of achieving Substantial Completion, the Contractor shall pay the Owner (and the Owner may set off from sums coming due the Contractor) Liquidated Damages in the per diem amounts as set forth in the following tables, whichever may be applicable:

LIQUIDATED DAMAGES – DATE FOR SUBSTANTIAL COMPLETION

<u>Contract Amount</u>	<u>Dollars Per Day</u>
\$1.00 to \$50,000.00	\$ 250.00
\$50,000.01 to \$150,000.00	\$ 500.00
\$150,000.01 to \$500,000.00	\$1,000.00
\$500,000.01 to \$2,000,000.00	\$1,500.00
\$2,000,000.01 to \$5,000,000.00	\$2,500.00
\$5,000,000.01 to \$10,000,000.00	\$3,000.00

LIQUIDATED DAMAGES – FINAL COMPLETION

<u>Contract Amount</u>	<u>Dollars Per Day</u>
\$1.00 to \$50,000.00	\$ 50.00
\$50,000.01 to \$150,000.00	\$ 100.00
\$150,000.01 to \$500,000.00	\$ 200.00
\$500,000.01 to \$2,000,000.00	\$ 300.00
\$2,000,000.01 to \$5,000,000.00	\$ 500.00
\$5,000,000.01 to \$10,000,000.00	\$ 600.00

In addition to such Liquidated Damages, the Contractor shall indemnify, defend and hold the Owner and its employees and agents harmless from any and all claims, whether or not such claims are proven, and from all costs and expenses incurred, as a result of or related to such claims, including but not limited to attorneys' and consultants' fees and expenses, provided that such claims arise out of or are related to the Contractor's failure to Substantially Complete its Work by its Date for Substantial Completion or its failure to Finally Complete its Work within forty-five (45) days of its Date for Substantial Completion. The Contractor's obligation to indemnify, defend and hold the Owner harmless under this Section 3.5 shall be joint and several. These Liquidated Damages are in addition to any other remedies available to the Owner under the Contract Documents.

The Contractor acknowledges that such amounts of Liquidated Damages represent a reasonable estimate of the actual damages for loss of or interference with the intended use of the Project that the Owner would incur if the Contractor's Work is not Substantially Complete by its Date for Substantial Completion or Finally Complete by the required date for Final Completion.

4. CONTRACT SUM (also called Contract Price). The Unit Price – Field Measured Contract Sum to be paid by the Owner to the Contractor, as provided herein, for the satisfactory performance and completion of the Work and all of the duties, obligations, and responsibilities of the Contractor under this Agreement and the other Contract Documents is as set forth in the Contract Terms Sheet. The Contract Sum includes all federal, state, county, municipal, and other taxes imposed by law, including but not limited to any sales, use, commercial activity, and personal property taxes payable by or levied against the Contractor on account of the Work or the materials incorporated into the Work. The Contractor will pay any such taxes. The Contract Sum includes the Base Bid and Alternates, if any, identified in the Contract Terms Sheet.

If after Substantial Completion of its Work, the Contractor fails to submit its final payment application with all the documents required to be submitted with such application within ninety (90) days after written notice to do so from the Owner and without prejudice to any other rights and remedies the Owner may have available to it, the balance of the Contract Sum shall become the Owner's sole and exclusive property, and the Contractor shall have no further interest in or right to such balance.

5. RETAINAGE. Retainage applicable to the Contract by Ohio Revised Code Sections 153.12, .13, and .14 will be withheld as defined in the General Conditions. The Contractor agrees that the Retainage will not be held in escrow or in any interest bearing account, and that no interest will be paid on such retained funds.

6. LIMITATION ON LIABILITY. The Owner's total liability under this Agreement will be limited to the amount set forth in the Fiscal Officer's certificate accompanying this Agreement. Under no circumstances will the elected officials, officers, employees, board or council members, or agents of the Owner be personally liable for any obligations or claims arising out of or related to this Agreement.

7. GENERAL.

7.1 MODIFICATION. Unless otherwise specifically set forth in this Agreement, no modification or waiver of any of the terms of this Agreement, or of any other Contract Documents, will be effective against a party unless set forth in writing and signed by or on behalf of a party. In the case of the Owner, the person executing the modification or waiver must have express authority to execute the Modification on behalf of the Owner pursuant to a resolution that is duly adopted by the Owner. Under no circumstances will forbearance, including the failure or repeated failure to insist upon compliance with the terms of the Contract Documents, constitute the waiver or modification of any such terms by the Owner. The parties acknowledge that no person has authority to modify this Agreement or the other Contract Documents or to waive any of its or their terms, except as expressly provided in this section.

7.2 ASSIGNMENT. The Contractor may not assign this Agreement without the written consent of the Owner, which the Owner may withhold in its sole discretion.

7.3 LAW AND JURISDICTION. All questions regarding the validity, intention, or meaning of this Agreement or any modifications of it relating to the rights and obligation of the parties will be construed and resolved under the laws of the State of Ohio. Any suit, which may be brought to enforce any provision of this Agreement or any remedy with respect hereto, shall be brought in the state court of competent jurisdiction in the county in Ohio in which the Owner's principal office is located, and each party hereby expressly consents to the exclusive

jurisdiction of such court. The parties expressly waive the right to remove any litigation arising out of this Agreement to federal court.

7.4 CONSTRUCTION. The parties acknowledge that each party has reviewed this Agreement and the other Contract Documents and entered into this Agreement as a free and voluntary act. Accordingly, the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party will not be employed in the interpretation of this Agreement, the other Contract Documents, or any amendments or exhibits to it or them.

7.5 APPROVALS. Except as expressly provided herein, the approvals and determinations of the Owner and Design Professional will be subject to the sole discretion of the respective party and be valid and binding on the Contractor, provided only that they be made in good faith, i.e., honestly. If the Contractor challenges any such approval or determination, the Contractor has the burden of proving that it was not made in good faith by clear and convincing evidence.

7.6 PARTIAL INVALIDITY. If any term or provision of this Agreement is found to be illegal, unenforceable, or in violation of any laws, statutes, ordinances, or regulations of any public authority having jurisdiction, then, notwithstanding such term or provision, this Agreement will remain in full force and effect and such term will be deemed stricken; provided this Agreement will be interpreted, when possible, so as to reflect the intentions of the parties as indicated by any such stricken term or provision.

7.7 COMPLIANCE WITH LAWS AND REGULATIONS. The Contractor, at its expense, will comply with all applicable federal, state, and local laws, rules, and regulations applicable to the Work, including but not limited to Chapter 4115 of the Ohio Revised Code and Sections 153.59 and 153.60 of the Ohio Revised Code, which prohibit discrimination in the hiring and treatment of employees, with respect to which the Contractor agrees to comply and to require its subcontractors to comply.

7.7.1 NON-DISCRIMINATION. Contractor agrees:

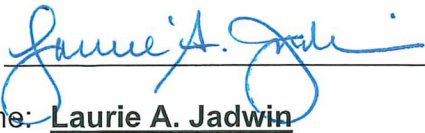
1. That in the hiring of employees for the performance of Work under this Agreement or in any subcontract, neither the Contractor, subcontractor, or any person acting on behalf of either of them, shall by reason of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color discriminate against any citizen of the state in the employment of labor or workers who are qualified and available to perform the Work to which the employment relates.
2. That neither the Contractor, subcontractor, nor any person acting on behalf of either of them shall, in any manner, discriminate against or intimidate any employee hired for the performance of Work under this Agreement on account of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color.
3. That there shall be deducted from the amount payable to the Contractor by the Owner under this Agreement a forfeiture of twenty-five dollars (\$25.00) as required by Ohio Revised Code Section 153.60 for each person who is discriminated against or intimidated in violation of this Agreement.
4. That this Agreement may be canceled or terminated by the Owner and all money to become due hereunder may be forfeited for a second or subsequent violation of the terms of this section of this Agreement.

- 7.7.2 PREVAILING WAGE RATES. The Contractor and its subcontractors, regardless of tier, shall strictly comply with their obligation to pay their employees working on the Project site at the applicable prevailing wage rates for the type of work, including any changes thereto, without increase in the Contract Sum.
- 7.7.3 ETHICS. By signing and entering into this agreement with the Owner, the Contractor represents that it is familiar with all applicable ethics law requirements, including without limitation Sections 102.04 and 3517.13 of the Ohio Revised Code, and certifies that it is in compliance with such requirements. The Contractor understands that failure to comply with the ethics laws is, in itself, grounds for termination of this contract and may result in the loss of other contracts with the Owner.
- 7.8 JOB MEETINGS. The Contractor or one of its representatives with authority to bind the Contractor will attend all job meetings. The Owner anticipates that job meetings will be scheduled on a weekly basis during construction or as needed. The Contractor will ensure that its Subcontractors also hold regular job meetings at which safety issues and job matters are discussed as these relate to the Work being performed. Job meetings include, but are not limited to, pre-construction meetings, weekly job meetings, weekly safety tool box meetings, and monthly safety meetings.
- 7.9 PROPERTY TAX AFFIDAVIT. The Contractor's affidavit given under Section 5719.024, Ohio Revised Code, is incorporated herein.
- 7.10 PARTNERING. Contractor agrees that it will participate, as part of the Contract Sum, in any partnering sessions scheduled by Owner.
- 7.11 ENTIRE AGREEMENT. This Agreement and the other Contract Documents constitute the entire agreement among the parties with respect to their subject matter and will supersede all prior and contemporaneous, oral or written, agreements, negotiations, communications, representations, and understandings with respect to such subject matter, and no person is justified in relying on such agreements, negotiations, communications, representations, or understandings.
- 7.12 COUNTERPARTS. This Agreement may be executed in any number of counterparts each of which when so executed and delivered will be an original hereof, and it will not be necessary in making proof of this Agreement to produce or account for more than one counterpart hereof. This Agreement may be executed and delivered by facsimile or via electronic mail.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their properly authorized representatives and agree that this Agreement is effective as of the date first set forth above.

Owner: **The City of Gahanna**

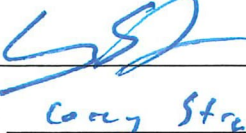
Contractor (as identified on the Contract Terms Sheet)

By: 

Name: **Laurie A. Jadwin**

Title: **Mayor**

Date: 3-26-24

By: 

Name: **Cory Strasser**

Title: **Secretary - Treasurer**

Date: 3/22/2024


By: 

Name: **Tom Komlanc**

Title: **Director of Engineering**

Date: 3-26-2024

Approved as to form of Contract and Contract Bond:

By: 

Name: **Priya D. Tamilarasan**

Title: **City Attorney**

Date: 4/1/24

FISCAL OFFICER'S STATEMENT OF AVAILABILITY

(Section 5705.41, R.C.)

I Joann Bury, hereby certify that I am the Director of Finance for the City of Gahanna, Ohio and that the amount of money to wit \$2,290,898.50 required to meet the cost of the attached Contract between the City of Gahanna, Ohio and Strawser Paving Company, has been or will be, prior to the ordering of any materials, lawfully appropriated for the purpose of said Contract and the money so appropriated is on deposit or in process of collection to the credit of the appropriate fund free from any previous encumbrances. Moneys due in excess of the Contract Sum and any Contingency amount assigned thereto shall require an additional and separate Fiscal Officer's Statement of Availability which shall not be given unless the Contract adjustment is directly attributable to one of the express methods for increasing the Contract Sum under the Contract Documents; and, such process is completed in the manner required by the Contract Documents.

Date: 3/26/24

Signed: _____

By: Joann Bury

Title: Director of Finance

This document has important legal consequences; consultation with an attorney is encouraged with respect to its use or modification. This document should be adapted to the particular circumstances of the contemplated Project and the controlling Laws and Regulations.

THIS DOCUMENT HAS BEEN MODIFIED FROM ITS ORIGINAL VERSION

MODIFIED STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Prepared by



Issued and Published Jointly by



These General Conditions have been prepared for use with the Agreement Between Owner and Contractor for Construction Contract (EJCDC® C-520, Stipulated Sum, or C-525, Cost-Plus, 2013 Editions). Their provisions are interrelated and a change in one may necessitate a change in the other.

To prepare supplementary conditions that are coordinated with the General Conditions, use EJCDC's Guide to the Preparation of Supplementary Conditions (EJCDC® C-800, 2013 Edition). The full EJCDC Construction series of documents is discussed in the Commentary on the 2013 EJCDC Construction Documents (EJCDC® C-001, 2013 Edition).

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1.01 *Defined Terms*

- A. Wherever used in the Bidding Requirements or Contract Documents, a term printed with initial capital letters or with all capital letters, including the term's singular and plural forms, will have the meaning indicated in the definitions below. In addition to terms specifically defined, terms with initial capital letters in the Contract Documents include references to identified articles and paragraphs, and the titles of other documents or forms.
1. *Addenda*—Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.
 2. *Agreement or Owner-Contractor Agreement*—The written instrument, executed by Owner and Contractor, that sets forth the Contract Price and Contract Times, identifies the parties and the Engineer, and designates the specific items that are Contract Documents.
 3. *Application for Payment*—The form acceptable to Engineer which is to be used by Contractor during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.
 4. *Bid*—The offer of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.
 5. *Bidder*—An individual or entity that submits a Bid to Owner.
 6. *Bidding Documents*—The Bidding Requirements, the proposed Contract Documents, and all Addenda.
 7. *Bidding Requirements*—The advertisement or invitation to bid, Information and Requirements for Bidders, Bid Bond or other Bid security, if any, the Bid Form, and legal notice.
 8. *Change Order*—A document which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, or other revision to the Contract, issued on or after the Effective Date of the Contract.
 9. *Change Proposal*—A written request by Contractor, duly submitted in compliance with the procedural requirements set forth herein, seeking an adjustment in Contract Price or Contract Times, or both; contesting an initial decision by Engineer concerning the requirements of the Contract Documents or the acceptability of Work under the Contract Documents; challenging a set-off against payments due; or seeking other relief with respect to the terms of the Contract.
 10. *Claim*—(a) A demand or assertion by Owner directly to Contractor, duly submitted in compliance with the procedural requirements set forth herein: seeking an adjustment of Contract Price or Contract Times, or both; contesting an initial decision by Engineer concerning the requirements of the Contract Documents or the acceptability of Work under the Contract Documents; contesting Engineer's decision regarding a Change Proposal; seeking resolution

of a contractual issue that Engineer has declined to address; or seeking other relief with respect to the terms of the Contract; or (b) a demand or assertion by Contractor directly to Owner, duly submitted in compliance with the procedural requirements set forth herein, contesting Engineer's decision regarding a Change Proposal; or seeking resolution of a contractual issue that Engineer has declined to address. A demand for money or services by a third party is not a Claim.

11. *Constituent of Concern*—Asbestos, petroleum, radioactive materials, polychlorinated biphenyls (PCBs), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to (a) the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§9601 et seq. ("CERCLA"); (b) the Hazardous Materials Transportation Act, 49 U.S.C. §§5501 et seq.; (c) the Resource Conservation and Recovery Act, 42 U.S.C. §§6901 et seq. ("RCRA"); (d) the Toxic Substances Control Act, 15 U.S.C. §§2601 et seq.; (e) the Clean Water Act, 33 U.S.C. §§1251 et seq.; (f) the Clean Air Act, 42 U.S.C. §§7401 et seq.; or (g) any other federal, state, or local statute, law, rule, regulation, ordinance, resolution, code, order, or decree regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.
12. *Contract*—The entire and integrated written contract between the Owner and Contractor concerning the Work.
13. *Contract Documents*— The Contract Documents are the Contract Documents identified in the Owner-Contractor Agreement ("Agreement")
14. *Contract Price*—The money that Owner has agreed to pay Contractor for completion of the Work in accordance with the Contract Documents. .
15. *Contract Times*—The number of days or the dates by which Contractor shall: (a) achieve Milestones, if any; (b) achieve Substantial Completion; and (c) complete the Work.
16. *Contractor*—The individual or entity with which Owner has contracted for performance of the Work.
17. *Cost of the Work*—See Paragraph 13.01 for definition.
18. *Drawings*—The part of the Contract that graphically shows the scope, extent, and character of the Work to be performed by Contractor.
19. *Effective Date of the Contract*—The date, indicated in the Agreement, on which the Contract becomes effective, but if no such date is indicated, it means the date on which the Agreement is signed by the Owner.
20. *Engineer*—Either the individual or entity named as the Consulting Engineer in the Agreement or the City Engineer, as appropriate to the Project.
21. *Field Order*—A written order issued by Engineer which requires minor changes in the Work but does not change the Contract Price or the Contract Times.
22. *Hazardous Environmental Condition*—The presence at the Site of Constituents of Concern in such quantities or circumstances that may present a danger to persons or property exposed thereto. The presence at the Site of materials that are necessary for the execution of the Work, or that are to be incorporated in the Work, and that are controlled and contained pursuant to industry practices, Laws

and Regulations, and the requirements of the Contract, does not establish a Hazardous Environmental Condition.

23. *Laws and Regulations; Laws or Regulations*—Any and all applicable laws, statutes, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.
24. *Liens*—Charges, security interests, or encumbrances upon Contract-related funds, real property, or personal property.
25. *Milestone*—A principal event in the performance of the Work that the Contract requires Contractor to achieve by an intermediate completion date or by a time prior to Substantial Completion of all the Work.
26. *Notice of Award*—The written notice by Owner to a Bidder of Owner's acceptance of the Bid.
27. *Notice to Proceed*—A written notice by Owner to Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall start to perform the Work.
28. *Owner*—The individual or entity with which Contractor has contracted regarding the Work, and which has agreed to pay Contractor for the performance of the Work, pursuant to the terms of the Contract.
29. *Progress Schedule*—A schedule, prepared and maintained by Contractor, describing the sequence and duration of the activities comprising the Contractor's plan to accomplish the Work within the Contract Times.
30. *Project*—The total undertaking to be accomplished for Owner by engineers, contractors, and others, including planning, study, design, construction, testing, commissioning, and start-up, and of which the Work to be performed under the Contract Documents is a part.
31. *Project Manual*—The written documents prepared for, or made available for, procuring and constructing the Work, including but not limited to the Bidding Documents or other construction procurement documents, geotechnical and existing conditions information, the Agreement, bond forms, General Conditions, Supplementary Conditions, and Specifications. The contents of the Project Manual may be bound in one or more volumes.
32. *Resident Project Representative*—The authorized representative of Engineer assigned to assist Engineer at the Site. As used herein, the term Resident Project Representative or "RPR" includes any assistants or field staff of Resident Project Representative.
33. *Samples*—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and that establish the standards by which such portion of the Work will be judged.
34. *Schedule of Submittals*—A schedule, prepared and maintained by Contractor, of required submittals and the time requirements for Engineer's review of the submittals and the performance of related construction activities.
35. *Schedule of Values*—A schedule, prepared and maintained by Contractor, allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment. If the Owner or Engineer prepares a Bid Schedule breaking the Work down into estimated

quantities (pay items) for the purpose of bidding the Work, the Schedule of Values shall be the Bid Schedule. If there is any part of the Work that is not identified in the Bid Schedule, such part shall be deemed incidental to Work identified in the Bid Schedule.

36. *Shop Drawings*—All drawings, diagrams, illustrations, schedules, and other data or information that are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work. Shop Drawings, whether approved or not, are not Drawings and are not Contract Documents.
37. *Site*—Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements, and such other lands furnished by Owner which are designated for the use of Contractor.
38. *Specifications*—The part of the Contract that consists of written requirements for materials, equipment, systems, standards, and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable to the Work.
39. *Subcontractor*—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work.
40. *Substantial Completion*—The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms “substantially complete” and “substantially completed” as applied to all or part of the Work refer to Substantial Completion thereof.
41. *Successful Bidder*—The Bidder whose Bid the Owner accepts, and to which the Owner makes an award of contract, subject to stated conditions.
42. *Supplementary Conditions*—The part of the Contract that amends or supplements these General Conditions. If additional supplements are included in the Contract Documents, they may be in the form of Supplementary or Special Conditions.
43. *Supplier*—A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or a Subcontractor.
44. *Technical Data*—Those items expressly identified as Technical Data in the Supplementary Conditions, with respect to either (a) subsurface conditions at the Site, or physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) or (b) Hazardous Environmental Conditions at the Site. If no such express identifications of Technical Data have been made with respect to conditions at the Site, then the data contained in boring logs, recorded measurements of subsurface water levels, laboratory test results, and other factual, objective information regarding conditions at the Site that are set forth in any geotechnical or environmental report prepared for the Project and made available to Contractor are hereby defined as Technical Data with respect to conditions at the Site under Paragraphs 5.03, 5.04, and 5.06.

45. *Underground Facilities*—All underground pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including but not limited to those that convey electricity, gases, steam, liquid petroleum products, telephone or other communications, fiber optic transmissions, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.
46. *Unit Price Work*—Work to be paid for on the basis of unit prices.
47. *Work*—The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction; furnishing, installing, and incorporating all materials and equipment into such construction; and may include related services such as testing, start-up, and commissioning, all as required by the Contract Documents.
48. *Work Change Directive*—A written directive to Contractor issued on or after the Effective Date of the Contract, signed by Owner and recommended by Engineer, ordering an addition, deletion, or revision in the Work.

1.02 Terminology

- A. The words and terms discussed in the following paragraphs are not defined but, when used in the Bidding Requirements or Contract Documents, have the indicated meaning.
- B. *Intent of Certain Terms or Adjectives:*
 1. The Contract Documents include the terms “as allowed,” “as approved,” “as ordered,” “as directed” or terms of like effect or import to authorize an exercise of professional judgment by Engineer. In addition, the adjectives “reasonable,” “suitable,” “acceptable,” “proper,” “satisfactory,” or adjectives of like effect or import are used to describe an action or determination of Engineer as to the Work. It is intended that such exercise of professional judgment, action, or determination will be solely to evaluate, in general, the Work for compliance with the information in the Contract Documents and with the design concept of the Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective is not intended to and shall not be effective to assign to Engineer any duty or authority to supervise or direct the performance of the Work, or any duty or authority to undertake responsibility contrary to the provisions of Article 10 or any other provision of the Contract Documents.
- C. *Day:*
 1. The word “day” means a calendar day of 24 hours measured from midnight to the next midnight.
- D. *Defective:*
 1. The word “defective,” when modifying the word “Work,” refers to Work that is unsatisfactory, faulty, or deficient in that it:
 - a. does not conform to the Contract Documents; or

- b. does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents; or
 - c. has been damaged prior to Engineer's recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner at Substantial Completion in accordance with Paragraph 15.03 or 15.04).
- E. *Furnish, Install, Perform, Provide:*
 - 1. The word "furnish," when used in connection with services, materials, or equipment, shall mean to supply and deliver said services, materials, or equipment to the Site (or some other specified location) ready for use or installation and in usable or operable condition.
 - 2. The word "install," when used in connection with services, materials, or equipment, shall mean to put into use or place in final position said services, materials, or equipment complete and ready for intended use.
 - 3. The words "perform" or "provide," when used in connection with services, materials, or equipment, shall mean to furnish and install said services, materials, or equipment complete and ready for intended use.
 - 4. If the Contract Documents establish an obligation of Contractor with respect to specific services, materials, or equipment, but do not expressly use any of the four words "furnish," "install," "perform," or "provide," then Contractor shall furnish and install said services, materials, or equipment complete and ready for intended use.
- F. Unless stated otherwise in the Contract Documents, words or phrases that have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

ARTICLE 2 – PRELIMINARY MATTERS

2.01 *Delivery of Bonds and Evidence of Insurance*

- A. *Bonds:* When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner such bonds, insurance certificates, insurance endorsements, and other documents as Contractor may be required to furnish under the Contract Documents.
- B. *Evidence of Contractor's Insurance:* When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner, with copies to each named insured and additional insured (as identified in the Supplementary Conditions or elsewhere in the Contract), the certificates and other evidence of insurance required to be provided by Contractor in accordance with Article 6.
- C. *Evidence of Owner's Insurance:* After receipt of the executed counterparts of the Agreement and all required bonds and insurance documentation, Owner shall, upon the Contractor's request, promptly deliver to Contractor, with copies to each named insured and additional insured (as identified in the Supplementary Conditions or otherwise), the certificates and other evidence of insurance required to be provided by Owner under Article 6.

2.02 *Copies of Documents*

A. Owner shall furnish to Contractor up to four printed copies of the Contract (including one fully executed counterpart of the Agreement), and one copy in electronic portable document format (PDF). Additional printed copies will be furnished upon request at the cost of reproduction.

B.

2.03 *Before Starting Construction*

A. *Preliminary Schedules*: Within 10 days after the Notice to Proceed (or as otherwise specifically required by the Contract Documents), Contractor shall submit to Engineer for timely review:

1. a preliminary Progress Schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract;
2. a preliminary Schedule of Submittals; and
3. a preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work. The total of the schedule of values prepared for the Work, as required by the General Conditions, shall not exceed the Bid submitted for the Work, unless such amount is adjusted as provided in the Contract Documents.

B. The Contractor shall prepare the Progress Schedule within ten (10) days of the date of the Notice to Proceed. The Progress Schedule shall include and be consistent with any applicable Milestone Dates in the Construction Documents. The Contractor shall prepare all Progress Schedules in CPM format unless provided otherwise in the Contract Document or otherwise agreed in writing by the Owner. The Progress Schedule is for coordinating the timing, phasing, and sequence of the Work of the contractors and shall not change or modify the date for Substantial Completion. The date for Substantial Completion shall only be changed or modified by Change Order, other Modification, or a Claim that is finally resolved, regardless of the date in the Proposed Schedule.

1. The Contractor shall update the Progress Schedule each month. In preparing and updating the Progress Schedule, the Contractor shall take into consideration but not be bound by the scheduling and other information submitted by the other contractors and subcontractors.
2. The Progress Schedule shall be manpower loaded and shall include a schedule of the submission of Shop Drawings, Product Data, and Samples.
3. The Contractor shall, on a weekly basis, prepare and submit to the Engineer a written report describing the activities begun or finished during the preceding week, Work in progress, expected completion of the Work, a look-ahead projection of all activities to be started or finished in the upcoming two (2) weeks, including without limitation the Contractor's workforce crew size and total resource hours associated with such Work and any other information requested by the Engineer.

4. The float in the Progress Schedule and any updates to it shall belong to the Owner. Float shall mean the amount of time by which activities may be delayed without affecting the Contract date for Substantial Completion.
- C. The Contractor's obligation to furnish requested scheduling information is a material term of its Contract. If the Contractor fails to furnish requested scheduling information in writing within five (5) days of a request for such information from the Design Professional or Owner, the Contractor shall pay and the Owner may withhold from the Contractor Liquidated Damages at the rate of Fifty Dollars (\$50.00) a day for each calendar day thereafter that the Contractor fails to furnish the requested information.
- D. THE PERIODS OF TIME IN THE PROJECT CONSTRUCTION SCHEDULE ARE OF THE ESSENCE TO THIS CONTRACT. THE CONTRACTOR SHALL PROSECUTE ITS WORK IN ACCORDANCE WITH THE CURRENT PROJECT CONSTRUCTION SCHEDULE.

2.04 *Preconstruction Conference; Designation of Authorized Representatives*

- A. Before any Work at the Site is started, a conference attended by Owner, Contractor, Engineer, and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the schedules referred to in Paragraph 2.03.A, procedures for handling Shop Drawings, Samples, and other submittals, processing Applications for Payment, electronic or digital transmittals, and maintaining required records.
- B. At this conference the Contractor shall designate, in writing, a specific individual to act as its authorized representative with respect to the services and responsibilities under the Contract. Such individuals shall have the authority to transmit and receive information, render decisions relative to the Contract, and otherwise act on behalf of each respective party.

2.05 *Initial Acceptance of Schedules*

- A. At least 10 days before submission of the first Application for Payment a conference, attended by Contractor, Engineer, and others as appropriate, will be held to review for acceptability to Engineer as provided below the schedules submitted in accordance with Paragraph 2.03.A. Contractor shall have an additional 10 days to make corrections and adjustments and to complete and resubmit the schedules. No progress payment shall be made to Contractor until acceptable schedules are submitted to Engineer.
 1. The Progress Schedule will be acceptable to Engineer if it provides an orderly progression of the Work to completion within the Contract Times. Such acceptance will not impose on Engineer responsibility for the Progress Schedule, for sequencing, scheduling, or progress of the Work, nor interfere with or relieve Contractor from Contractor's full responsibility therefor.
 2. Contractor's Schedule of Submittals will be acceptable to Engineer if it provides a workable arrangement for reviewing and processing the required submittals.
 3. Contractor's Schedule of Values will be acceptable to Engineer as to form and substance if it provides a reasonable allocation of the Contract Price to the component parts of the Work. Once approved by the Engineer, the Contractor will not change the allocation of the Contract Price to the component parts of the Work without the Engineer's written approval. The Engineer thereafter may from time to time require the Contractor to adjust such schedule if the Engineer determines it to be in any way unreasonable or inaccurate. The Contractor then

shall adjust the schedule of values as required by the Engineer within ten (10) days.

2.06 *Electronic Transmittals*

- A. Except as otherwise stated elsewhere in the Contract, the Owner, Engineer, and Contractor may transmit, and shall accept, Project-related correspondence, text, data, documents, drawings, information, and graphics, including but not limited to Shop Drawings and other submittals, in electronic media or digital format, either directly, or through access to a secure Project website.
- B. If the Contract does not establish protocols for electronic or digital transmittals, then Owner, Engineer, and Contractor may jointly develop such protocols.
- C. When transmitting items in electronic media or digital format, the transmitting party makes no representations as to long term compatibility, usability, or readability of the items resulting from the recipient's use of software application packages, operating systems, or computer hardware differing from those used in the drafting or transmittal of the items, or from those established in applicable transmittal protocols.

ARTICLE 3 – DOCUMENTS: INTENT, REQUIREMENTS, REUSE

3.01 *Intent*

- A. The Contract Documents are complementary; what is required by one is as binding as if required by all.
- B. It is the intent of the Contract Documents to describe a functionally complete project (or part thereof) to be constructed in accordance with the Contract Documents. Any labor, documentation, services, materials, or equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result will be provided whether or not specifically called for at no additional cost to Owner.
- C. Unless otherwise stated in the Contract Documents, if there is a discrepancy between the electronic or digital versions of the Contract Documents (including any printed copies derived from such electronic or digital versions) and the printed record version, the printed record version shall govern.
- D. The Contract supersedes prior negotiations, representations, and agreements, whether written or oral.
- E. Engineer will issue clarifications and interpretations of the Contract Documents as provided herein.

3.02 *Reference Standards*

- A. Standards Specifications, Codes, Laws and Regulations
 - 1. Reference in the Contract Documents to standard specifications, manuals, reference standards, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, shall mean the standard specification, manual, reference standard, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Contract if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.

2. No provision of any such standard specification, manual, reference standard, or code, or any instruction of a Supplier, shall be effective to change the duties or responsibilities of Owner, Contractor, or Engineer, or any of their subcontractors, consultants, agents, or employees, from those set forth in the part of the Contract Documents prepared by or for Engineer. No such provision or instruction shall be effective to assign to Owner, Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the part of the Contract Documents prepared by or for Engineer.

3.03 *Reporting and Resolving Discrepancies*

A. *Reporting Discrepancies:*

1. *Contractor's Verification of Figures and Field Measurements:* In addition to its obligations under the Information and Requirements for Bidders, before undertaking each part of the Work, Contractor shall carefully study the Contract Documents, and check and verify pertinent figures and dimensions therein, particularly with respect to applicable field measurements. Contractor shall promptly report in writing to Engineer any conflict, error, ambiguity, or discrepancy that Contractor discovers, or has actual knowledge of, and shall not proceed with any Work affected thereby until the conflict, error, ambiguity, or discrepancy is resolved, by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract Documents issued pursuant to Paragraph 11.01.
2. *Contractor's Review of Contract Documents:* If, before or during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents, or between the Contract Documents and (a) any applicable Law or Regulation, (b) actual field conditions, (c) any standard specification, manual, reference standard, or code, or (d) any instruction of any Supplier, then Contractor shall promptly report it to Engineer in writing. Contractor shall not proceed with the Work affected thereby (except in an emergency as required by Paragraph 7.15) until the conflict, error, ambiguity, or discrepancy is resolved, by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract Documents issued pursuant to Paragraph 11.01.
3. Contractor shall not be liable to Owner or Engineer for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless Contractor knew or reasonably should have known thereof or Contractor failed to perform its obligations under the Information and Requirements for Bidders.
4. In addition to its obligations under the Information and Requirements for Bidders, if Contractor proceeds with work that Contractor had actual knowledge or should have known that a conflict, error, ambiguity, or discrepancy existed as indicated above, correction of work constructed without such notification to Engineer shall be at Contractor's expense, (except in an emergency as authorized pursuant to the terms of the contract).

B. *Resolving Discrepancies:*

1. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the part of the Contract Documents prepared by or for Engineer shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between such provisions of the Contract Documents and:

- a. the provisions of any standard specification, manual, reference standard, or code, or the instruction of any Supplier (whether or not specifically incorporated by reference as a Contract Document); or
 - b. the provisions of any Laws or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).
2. Within the Contract Documents, requirements of the Agreement shall take precedence over the Modified General Conditions, which shall take precedence over the Specifications, which shall take precedence over the Drawings.
 3. Within a particular Contract Document, figure dimensions on Drawings shall take precedence over general Drawings. Specific instructions or specifications shall take precedence over general instructions or specifications.

3.04 *Requirements of the Contract Documents*

- A. During the performance of the Work and until final payment, Contractor and Owner shall submit to the Engineer all matters in question concerning the requirements of the Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Contract Documents, as soon as possible after such matters arise. Engineer will be the initial interpreter of the requirements of the Contract Documents, and judge of the acceptability of the Work thereunder.
- B. Engineer will, with reasonable promptness, render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the Contract Documents. Engineer's written clarification, interpretation, or decision will be final and binding on Contractor, unless it appeals by submitting a Change Proposal, and on Owner, unless it appeals by filing a Claim.
- C. If a submitted matter in question concerns terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work under the Contract Documents, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, then Engineer will promptly give written notice to Owner and Contractor that Engineer is unable to provide a decision or interpretation. If Owner and Contractor are unable to agree on resolution of such a matter in question, either party may pursue resolution as provided in Article 12.

3.05 *Reuse of Documents*

- A. Contractor and its Subcontractors and Suppliers shall not:
 1. have or acquire any title to or ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Engineer or its consultants, including electronic media editions, or reuse any such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of Owner and Engineer and specific written verification or adaptation by Engineer; or
 2. have or acquire any title or ownership rights in any other Contract Documents, reuse any such Contract Documents for any purpose without Owner's express written consent, or violate any copyrights pertaining to such Contract Documents.

- B. The prohibitions of this Paragraph 3.05 will survive final payment, or termination of the Contract. Nothing herein shall preclude Contractor from retaining copies of the Contract Documents for record purposes.

ARTICLE 4 – COMMENCEMENT AND PROGRESS OF THE WORK

4.01 *Commencement of Contract Times; Notice to Proceed*

- A. The Contract Times will commence to run on the Effective Date of the Contract or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 60 days after the date bids are received for the Project. In no event will the Contract Times commence to run later than the sixtieth day after the day of Bid opening unless mutually agreed to by the Owner and Contractor.

4.02 *Starting the Work*

- A. Contractor shall start to perform the Work on the date when the Contract Times commence to run. No Work shall be done at the Site prior to such date.

4.03 *Reference Points*

- A. Owner shall provide engineering surveys to establish reference points for construction which in Engineer's judgment are necessary to enable Contractor to proceed with the Work. Contractor shall be responsible for laying out the Work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Contractor shall report to Engineer whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

4.04 *Progress Schedule*

- A. Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.05 as it may be adjusted from time to time as provided below.
 - 1. Contractor shall submit to Engineer for acceptance (to the extent indicated in Paragraph 2.05) proposed adjustments in the Progress Schedule that will not result in changing the Contract Times.
 - 2. Proposed adjustments in the Progress Schedule that will change the Contract Times shall be submitted in accordance with the requirements of Article 11.
- B. Contractor shall carry on the Work and adhere to the Progress Schedule during all disputes or disagreements with Owner. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, or during any appeal process, except as permitted by Paragraph 16.04, or as Owner and Contractor may otherwise agree in writing.
- C. The float in the Progress Schedule and any updates to it shall belong to Owner. Float shall mean the amount of time by which activities may be delayed without affecting the Contract Date for Substantial Completion.

4.05 *Delays in Contractor's Progress*

- A. If Owner, Engineer, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be

entitled to an equitable adjustment in the Contract Times and Contract Price provided the Contractor timely submits a Change Proposal as required by the Contract. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.

- B. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delay, disruption, or interference caused by or within the control of Contractor. Delay, disruption, and interference attributable to and within the control of a Subcontractor or Supplier, of any tier, shall be deemed to be within the control of Contractor.
- C. If Contractor's performance or progress is delayed, disrupted, or interfered with by unanticipated causes not the fault of and beyond the control of Owner, Contractor, and those for which they are responsible, then Contractor shall be entitled to an equitable adjustment in Contract Times provided the Contractor timely submits a Change Proposal as required by the Contract. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times. Such an adjustment shall be Contractor's sole and exclusive remedy for the delays, disruption, and interference described in this paragraph. Causes of delay, disruption, or interference that may give rise to an adjustment in Contract Times under this paragraph include but are not limited to the following:
 - 1. severe and unavoidable natural catastrophes such as fires, floods, epidemics, and earthquakes;
 - 2. abnormal weather conditions;
 - 3. acts or failures to act of utility owners (other than those performing other work at or adjacent to the Site by arrangement with the Owner, as contemplated in Article 8); and
 - 4. acts of war or terrorism.
- D. Delays, disruption, and interference to the performance or progress of the Work resulting from the existence of a differing subsurface or physical condition, an Underground Facility that was not shown or indicated by the Contract Documents, or not shown or indicated with reasonable accuracy, and those resulting from Hazardous Environmental Conditions, are governed by Article 5.
- E. Paragraph 8.03 governs delays, disruption, and interference to the performance or progress of the Work resulting from the performance of certain other work at or adjacent to the Site.
- F. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for any delay, disruption, or interference if such delay is concurrent with a delay, disruption, or interference caused by or within the control of Contractor.
- G. Contractor must submit any Change Proposal seeking an adjustment in Contract Price or Contract Times under this paragraph within 30 days of the commencement of the delaying, disrupting, or interfering event. Contractor's failure to timely submit a Change Proposal within this 30-day time period shall constitute an irrevocable waiver of Contractor's right to an adjustment of the Contract Times or Contract Price.
- H. **Weather Delays.** When the Contractor is prevented from completing any part of the Work on the critical path within the Contract Time due to weather conditions, if a

Change Proposal is made therefor as provided in the Contract, the Contract Times will be extended by one (1) day for each work day lost due to weather that delays Work on the critical path in excess of those in the following table:

Month	Workdays Lost Due To Weather
January	8
February	8
March	7
April	6
May	5
June	5
July	4
August	4
September	5
October	5
November	5
December	6

- I. The Contractor acknowledges and agrees that the Owner and/or parties in privity of contract with the Owner may delay, interfere with and/or disrupt the Contractor's Work, and such actions shall not constitute a breach of contract by the Owner, since the Contractor is entitled to additional compensation by properly pursuing a Change Proposal and Claim as permitted by these Modified General Conditions. Pending the final resolution of a Claim, the Contractor shall continue performance of the Work.
- J. If the Owner determines that the performance of the Work has not progressed such that it is likely that the Contractor will not substantially complete its Work by its Date for Substantial Completion based upon the Contractor's failure to achieve specific milestone dates contained within the Progress Schedule, the Owner shall have the right to order the Contractor to take corrective measures necessary to expedite the Work, including, without limitation: (i) working additional shifts or overtime; (ii) supplying additional manpower, equipment, and facilities; and (iii) other similar measures (collectively referred to as "Corrective Measures"). If the Owner orders the Contractor to take such corrective measures, and regardless of any claims, disputes or objections, the Contractor shall take and continue such Corrective Measures until the Owner is satisfied that the Contractor is likely to substantially complete its Work by its Date for Substantial Completion.
 1. The Contractor shall not be entitled to adjustment in the Contract Sum in connection with the Corrective Measures required by the Owner pursuant to Paragraph 4.05(J), unless the Contractor is able to establish that it is entitled to additional compensation under other terms of the Contract Documents.

ARTICLE 5 – AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS

5.01 *Availability of Lands*

- A. Owner shall furnish the Site. Owner shall notify Contractor of any encumbrances or restrictions not of general application but specifically related to use of the Site with which Contractor must comply in performing the Work.
- B. Upon reasonable request, Owner shall furnish Contractor with a Notice of Commencement prepared for the Project, conforming to the provisions of Ohio Revised Code Section 1311.252.
- C. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

5.02 *Use of Site and Other Areas*

- A. *Limitation on Use of Site and Other Areas:*
 - 1. Contractor shall confine construction equipment, temporary construction facilities, the storage of materials and equipment, and the operations of workers to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas permitted by Laws and Regulations, and shall not unreasonably encumber the Site and such other adjacent areas with construction equipment or other materials or equipment. Contractor shall assume full responsibility for (a) damage to the Site; (b) damage to any such other adjacent areas used for Contractor's operations; (c) damage to any other adjacent land or areas; and (d) for injuries and losses sustained by the owners or occupants of any such land or areas; provided that such damage or injuries result from the performance of the Work or from other actions or conduct of the Contractor or those for which Contractor is responsible.
 - 2. If a damage or injury claim is made by the owner or occupant of any such land or area because of the performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible, Contractor shall (a) take immediate corrective or remedial action as required by Paragraph 7.12, or otherwise; (b) promptly attempt to settle the claim as to all parties through negotiations with such owner or occupant, or otherwise resolve the claim by arbitration or other dispute resolution proceeding, or at law; and (c) to the fullest extent permitted by Laws and Regulations, indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against any such claim, and against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against Owner, Engineer, or any other party indemnified hereunder to the extent caused directly or indirectly, in whole or in part by, or based upon, Contractor's performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible.
- B. *Removal of Debris During Performance of the Work:* During the progress of the Work the Contractor shall keep the Site and other adjacent areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste

materials, rubbish, and other debris shall conform to applicable Laws and Regulations.

- C. *Cleaning:* Prior to Substantial Completion of the Work Contractor shall clean the Site and the Work and make it ready for utilization by Owner. At the completion of the Work Contractor shall remove from the Site and adjacent areas all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.
- D. *Loading of Structures:* Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent structures or land to stresses or pressures that will endanger them.

5.03 *Subsurface and Physical Conditions*

- A. *Reports and Drawings:* The Contract identifies:
 - 1. those reports known to Owner of explorations and tests of subsurface conditions at or adjacent to the Site;
 - 2. those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities); and
 - 3. Technical Data contained in such reports and drawings.
- B. *Reliance by Contractor on Technical Data Authorized:* Contractor may rely upon the general accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely upon the accuracy of the Technical Data (as defined in Article 1) contained in any geotechnical or environmental report prepared for the Project and made available to Contractor. Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, with respect to:
 - 1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or
 - 2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or
 - 3. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions, or information.
- C. It is possible that there may be other reports and/or tests of subsurface conditions at or contiguous to the Site. The Owner makes no representation about such reports and/or tests, assuming they exist. For example, all interpolations and extrapolations of data performed by Contractor to estimate locations or quantities of subsurface strata are independent factual assumptions, which Owner does not warrant.

5.04 *Differing Subsurface or Physical Conditions*

- A. *Notice by Contractor.* If Contractor believes that any subsurface or physical condition that is uncovered or revealed at the Site either:
1. is of such a nature as to establish that any Technical Data on which Contractor is entitled to rely as provided in Paragraph 5.03 is materially inaccurate; or
 2. is of such a nature as to require a change in the Drawings or Specifications; or
 3. differs materially from that shown or indicated in the Contract Documents; or
 4. is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents;

then Contractor shall, as a condition precedent to any increase in the Contract Price and/or an extension of the Contract Times, promptly and within no more than 48 hours after becoming aware thereof, and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except with respect to an emergency) until receipt of a written statement permitting Contractor to do so. If Contractor fails to notify Owner and Engineer within the time required by this Paragraph 5.04.A, Contractor irrevocable waives any right to a Contract Price and Contract Time Adjustment under Paragraph 5.04.C.

- B. *Engineer's Review.* After receipt of written notice as required by the preceding paragraph, Engineer will promptly review the subsurface or physical condition in question; determine the necessity of Owner's obtaining additional exploration or tests with respect to the condition; conclude whether the condition falls within any one or more of the differing site condition categories in Paragraph 5.04.A above; obtain any pertinent cost or schedule information from Contractor; prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the subsurface or physical condition in question and the need for any change in the Drawings or Specifications; and advise Owner in writing, with a copy to the Contractor, of Engineer's findings, conclusions, and recommendations.
- C. *Possible Price and Times Adjustments:*
1. Contractor shall be entitled to an equitable adjustment in Contract Price or Contract Times, or both, to the extent that the existence of a differing subsurface or physical condition, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:
 - a. such condition must fall within any one or more of the categories described in Paragraph 5.04.A;
 - b. with respect to Work that is paid for on a unit price basis, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.03; and,
 - c. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.

2. Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times with respect to a subsurface or physical condition if:
 - a. Contractor knew or should have known of the existence of such condition at the time Contractor made a commitment to Owner with respect to Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract, or otherwise; or
 - b. the existence of such condition reasonably could have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas expressly required by the Bidding Requirements or Contract Documents to be conducted by or for Contractor prior to Contractor's making such commitment; or
 - c. Contractor failed to give the written notice as required by Paragraph 5.04.A and failed to submit a Change Proposal within 30 days of issuance of the Engineer's review.
3. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, or both, then any such adjustment shall be set forth in a Change Order.
4. Contractor shall submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, or both, no later than 30 days after issuance of the Engineer's review regarding the subsurface or physical condition in question.

5.05 *Underground Facilities*

- A. *Contractor's Responsibilities:* The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or adjacent to the Site is based on information and data furnished to Owner or Engineer by the owners of such Underground Facilities, including Owner, or by others. Unless it is otherwise expressly provided in the Modified General Conditions:
 1. Owner and Engineer do not warrant or guarantee the accuracy or completeness of any such information or data; and
 2. the cost of all of the following will be included in the Contract Price, and Contractor shall have full responsibility for:
 - a. reviewing and checking all information and data regarding existing Underground Facilities at the Site;
 - b. locating all Underground Facilities shown or indicated in the Contract Documents as being at the Site protecting all Underground Facilities in a manner at least as cautious and protective of safety and of underground facilities as those methods identified in Ohio Revised Code Sections 3781.25 and 3781.30;
 - c. coordination of the Work with the owners (including Owner) of such Underground Facilities, during construction; and
 - d. the safety and protection of all existing Underground Facilities at the Site, and repairing any damage thereto resulting from the Work.
- B. *Notice by Contractor:* If Contractor believes that an Underground Facility that is uncovered or revealed at the Site was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy, then Contractor

shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), identify the owner of such Underground Facility and give written notice to that owner and to Owner and Engineer.

- C. *Engineer's Review:* Engineer will promptly review the Underground Facility and conclude whether such Underground Facility was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy; obtain any pertinent cost or schedule information from Contractor; prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the Underground Facility in question; determine the extent, if any, to which a change is required in the Drawings or Specifications to reflect and document the consequences of the existence or location of the Underground Facility; and advise Owner in writing, with a copy to the Contractor, of Engineer's findings, conclusions, and recommendations. During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.
- D. *Possible Price and Times Adjustments:*
 - 1. Contractor shall be entitled to an equitable adjustment in the Contract Price or Contract Times, or both, to the extent that any existing Underground Facility at the Site that was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:
 - a. Contractor did not know of and could not reasonably have been expected to be aware of or to have anticipated the existence or actual location of the Underground Facility in question;
 - b. With respect to Work that is paid for on a unit price basis, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.03;
 - c. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times; and
 - d. Contractor gave the notice required in Paragraph 5.05.B and submitted a Change Proposal no later than 30 days after issuance of the Engineer's review.
 - 2. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, or both, then any such adjustment shall be set forth in a Change Order.
 - 3. Contractor shall submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, or both, no later than 30 days after Engineer's issuance of the Engineer's Review to Contractor regarding the Underground Facility in question.

5.06 *Hazardous Environmental Conditions at Site*

- A. *Reports and Drawings:* The Supplementary Conditions identify:
 - 1. those reports and drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site; and
 - 2. Technical Data contained in such reports and drawings.

- B. *Reliance by Contractor on Technical Data Authorized:* Contractor may rely upon the accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely on the accuracy of the Technical Data (as defined in Article 1) contained in any geotechnical or environmental report prepared for the Project and made available to Contractor. Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors with respect to:
1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by Contractor and safety precautions and programs incident thereto; or
 2. other data, interpretations, opinions and information contained in such reports or shown or indicated in such drawings; or
 3. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions or information.
- C. Contractor shall not be responsible for removing or remediating any Hazardous Environmental Condition encountered, uncovered, or revealed at the Site unless such removal or remediation is expressly identified in the Contract Documents to be within the scope of the Work.
- D. Contractor shall be responsible for controlling, containing, and duly removing all Constituents of Concern brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible, and for any associated costs; and for the costs of removing and remediating any Hazardous Environmental Condition created by the presence of any such Constituents of Concern.
- E. If Contractor encounters, uncovers, or reveals a Hazardous Environmental Condition whose removal or remediation is not expressly identified in the Contract Documents as being within the scope of the Work, or if Contractor or anyone for whom Contractor is responsible creates a Hazardous Environmental Condition, then Contractor shall immediately: (1) secure or otherwise isolate such condition; (2) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 7.15); and (3) notify Owner and Engineer (and promptly thereafter confirm such notice in writing). Owner shall promptly consult with Engineer concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any. Promptly after consulting with Engineer, Owner shall take such actions as are necessary to permit Owner to timely obtain required permits and provide Contractor the written notice required by Paragraph 5.06.F. If Contractor or anyone for whom Contractor is responsible created the Hazardous Environmental Condition in question, then Owner may remove and remediate the Hazardous Environmental Condition, and impose a set-off against payments to account for the associated costs. If Contractor fails to notify Owner and Engineer within the time required by this Paragraph 5.06.E, Contractor waives any right to a Contract Price and Contract Time Adjustment.
- F. Contractor shall not resume Work in connection with such Hazardous Environmental Condition or in any affected area until after Owner has obtained any required permits related thereto, and delivered written notice to Contractor either (1) specifying that

such condition and any affected area is or has been rendered safe for the resumption of Work, or (2) specifying any special conditions under which such Work may be resumed safely.

- G. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, or both, as a result of such Work stoppage or such special conditions under which Work is agreed to be resumed by Contractor, then within 30 days of Owner's written notice regarding the resumption of Work, Contractor may submit a Change Proposal, or Owner may impose a set-off.
- H. If after receipt of such written notice Contractor does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then Owner may order the portion of the Work that is in the area affected by such condition to be deleted from the Work, following the contractual change procedures in Article 11. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 8.
- I. To the extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition (1) was not shown or indicated in the Drawings, Specifications, or other Contract Documents, identified as Technical Data entitled to limited reliance pursuant to Paragraph 5.06.B, or identified in the Contract Documents to be included within the scope of the Work, and (2) was not created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.H shall obligate Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence. Such obligation shall be limited to the limits of Owner's insurance coverage for such loss.
- J. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the failure to control, contain, or remove a Constituent of Concern brought to the Site by Contractor or by anyone for whom Contractor is responsible, or to a Hazardous Environmental Condition created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.J shall obligate Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.
- K. The provisions of Paragraphs 5.03, 5.04, and 5.05 do not apply to the presence of Constituents of Concern or to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 6 – BONDS AND INSURANCE

6.01 *Performance, Payment, and Other Bonds*

- A. Contractor shall furnish a performance bond and payment bond, in an amount equal to the Contract Price, as security for the faithful performance and payment of all of Contractor's obligations under the Contract. Such bond shall be in the form that meets the requirements of the Ohio Revised Code. If the Contractor submitted a combined Bid Guaranty and Contract Bond with its bid for the Work, that form of Bond shall satisfy the Contractor's requirement to provide a Contract Bond. Contractor shall also furnish any other bonds as are required by the Contract Documents.
- B. All bonds shall be in the form prescribed by the Ohio Revised Code and shall be executed by such sureties as are named in "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (as amended and supplemented) by the Financial Management Service, Surety Bond Branch, U.S. Department of the Treasury. A bond signed by an agent or attorney-in-fact must be accompanied by a certified copy of that individual's authority to bind the surety. The evidence of authority shall show that it is effective on the date the agent or attorney-in-fact signed the accompanying bond.
- C. Contractor shall obtain the required bonds from surety companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue bonds in the required amounts.
- D. If the surety on a bond furnished by Contractor is declared bankrupt or becomes insolvent, or its right to do business is terminated in any state or jurisdiction where any part of the Project is located, or the surety ceases to meet the requirements above, then Contractor shall promptly notify Owner and Engineer and shall, within 20 days after the event giving rise to such notification, provide another bond and surety, both of which shall comply with the bond and surety requirements above.
- E. If Contractor has failed to obtain a required bond, Owner may exclude the Contractor from the Site and exercise Owner's termination rights under Article 16.
- F. Upon request, Owner shall provide a copy of the payment bond to any Subcontractor, Supplier, or other person or entity claiming to have furnished labor or materials used in the performance of the Work.
- G. *Material Default or Termination.* If the Owner notifies the Contractor's surety that the Contractor is in material default, the surety will complete its investigation of the claimed material default within 21 days. The surety is advised to start looking for a replacement contractor upon notice of material default. As part of its investigation, the surety shall promptly visit the offices of the Contractor, Engineer, and Owner to inspect and copy the available Project records. The Owner, Engineer, and Contractor, upon written request by the surety, shall make such records available during regular business hours for such inspection and copying. The Owner and Engineer's making such records available as provided herein shall satisfy the Owner's obligation to the surety to furnish documents for the investigation. The surety will provide the Owner with the results of its investigation, including any written report or documents.

If the Owner terminates the Contract and the surety proposes to takeover the Work, the surety shall do so no later than the later of the expiration of the 21-day investigation period or 10 days after the date the Owner terminates the Contract, whichever is later. If the Owner terminates the Contract, and the surety proposes to

provide a replacement contractor, the replacement contractor shall be fully capable of performing the Work in accordance with the Contract Documents. If the Contractor is terminated for cause, the replacement contractor shall not be the Contractor or its employees, unless the Owner agrees in writing. In the event the Surety takes over the Project, the surety's obligation shall not be limited to the penal sum of the Bond.

If the surety does not propose an acceptable contractor as required by this Paragraph, the Owner may complete the Work by such means as it deems appropriate. In the event the Owner agrees to accept a replacement contractor, the replacement contractor shall furnish its own bond for the replacement contractor's scope of work, and neither the Contractor nor the surety shall be relieved of their obligations under the Contract Documents.

This Paragraph is in addition to any other rights of the Owner under the Contract Documents and is not intended to create any rights of the surety, including but not limited to the right to take over the Contractor's obligations.

In the event of the Contractor's termination and if the surety does not takeover the Work as provided in this Paragraph, the Owner may take possession of and use all materials, facilities and equipment at the Project Site or stored off-site for which Owner has paid in whole or in part.

6.02 *Insurance—General Provisions*

- A. Owner and Contractor shall obtain and maintain insurance as required in this Article and in the Supplementary Conditions.
- B. All insurance required by the Contract to be purchased and maintained by Owner or Contractor shall be obtained from insurance companies that are duly licensed or authorized, in the state or jurisdiction in which the Project is located, to issue insurance policies for the required limits and coverages. Unless a different standard is indicated in the Supplementary Conditions, all companies that provide insurance policies required under this Contract shall have an A.M. Best rating of A-VII or better.
- C. Contractor shall deliver to Owner, with copies to each named insured and additional insured (as identified in this Article, in the Supplementary Conditions, or elsewhere in the Contract), certificates of insurance establishing that Contractor has obtained and is maintaining the policies, coverages, and endorsements required by the Contract. Upon request by Owner or any other insured, Contractor shall also furnish other evidence of such required insurance, including but not limited to copies of policies and endorsements, and documentation of applicable self-insured retentions and deductibles. Contractor may block out (redact) any confidential premium or pricing information contained in any policy or endorsement furnished under this provision. Failure of Owner to demand such certificates or other evidence of full compliance with these insurance requirements or failure of Owner to identify a deficiency from evidence provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.
- D. Owner shall, upon the Contractor's request, deliver to Contractor, with copies to each named insured and additional insured (as identified in this Article, the Supplementary Conditions, or elsewhere in the Contract), certificates of insurance establishing that Owner has obtained and is maintaining the policies, coverages, and endorsements required of Owner by the Contract (if any). Upon request by Contractor or any other insured, Owner shall also provide other evidence of such required insurance (if any), including but not limited to copies of policies and endorsements, and documentation of applicable self-insured retentions and deductibles. Owner may block out (redact)

any confidential premium or pricing information contained in any policy or endorsement furnished under this provision.

- E. Failure of Owner or Contractor to demand such certificates or other evidence of the other party's full compliance with these insurance requirements, or failure of Owner or Contractor to identify a deficiency in compliance from the evidence provided, shall not be construed as a waiver of the other party's obligation to obtain and maintain such insurance.
- F. If either party does not purchase or maintain all of the insurance required of such party by the Contract, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage.
- G. If Contractor has failed to obtain and maintain required insurance, Owner may exclude the Contractor from the Site, impose an appropriate set-off against payment, and exercise Owner's termination rights under Article 16.
- H. Without prejudice to any other right or remedy, if a party has failed to obtain required insurance, the other party may elect to obtain equivalent insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and the Contract Price shall be adjusted accordingly.
- I. Owner does not represent that insurance coverage and limits established in this Contract necessarily will be adequate to protect Contractor or Contractor's interests.
- J. The insurance and insurance limits required herein shall not be deemed as a limitation on Contractor's liability under the indemnities granted to Owner and other individuals and entities in the Contract.
- K. The minimum limits of liability for the required insurance policies listed in Paragraph 6.03 shall not be less than the following unless a greater amount is required by law:
 - 1. Commercial General Liability ("CGL"): Bodily injury (including death and personal injury) and property damage with limits of \$1,000,000 each occurrence and \$2,000,000 aggregate. CGL shall include (i) Premises-Operations, (ii) Explosion and Collapse Hazard, (iii) Underground Hazard, (iv) Independent Contractors' Protective, (v) Broad Form Property Damage, including Completed Operations, (vi) Contractual Liability, (vii) Products and Completed Operations, (viii) Personal/Advertising Injury with Employment Exclusion deleted, (ix) Stopgap liability endorsement for \$1,000,000 limit, and (x) per project aggregate endorsement.
 - 2. Automobile Liability, covering all owned, non-owned, and hired vehicles used in connection with the Work: Bodily injury (including death and personal injury) and property damage with a combined single limit of \$1,000,000 per person and \$1,000,000 each accident.
 - 3. Such policies shall be supplemented by an umbrella policy, also written on an occurrence basis, to provide additional protection to provide coverage in the total amount of \$1,000,000 for each occurrence and \$1,000,000 aggregate for contracts with a Contract Price of \$250,000 or less; \$2,000,000 each occurrence and \$2,000,000 aggregate for contracts with a Contract Price greater than \$250,000 but less than or equal to \$500,000; \$3,000,000 each occurrence and \$3,000,000 aggregate for contracts with a Contract Price greater than \$500,000 but less than or equal to \$1,000,000; and \$5,000,000 each occurrence and

\$5,000,000 aggregate for contracts with a Contract Price greater than \$1,000,000.

6.03 *Contractor's Insurance*

- A. *Workers' Compensation*: Contractor shall purchase and maintain workers' compensation and employer's liability insurance for:
 - 1. claims under workers' compensation, disability benefits, and other similar employee benefit acts.
 - 2. United States Longshoreman and Harbor Workers' Compensation Act and Jones Act coverage (if applicable).
 - 3. claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees (by stop-gap endorsement in monopolist worker's compensation states).
 - 4. Foreign voluntary worker compensation (if applicable).
- B. *Commercial General Liability—Claims Covered*: Contractor shall purchase and maintain commercial general liability insurance, covering all operations by or on behalf of Contractor, on an occurrence basis, against:
 - 1. claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees.
 - 2. claims for damages insured by reasonably available personal injury liability coverage.
 - 3. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom.
- C. *Commercial General Liability—Form and Content*: Contractor's commercial liability policy shall be written on a 1996 (or later) ISO commercial general liability form (occurrence form) and include the following coverages and endorsements:
 - 1. Products and completed operations coverage:
 - a. Such insurance shall be maintained for three years after final payment.
 - b. Contractor shall furnish Owner and each other additional insured (as identified in the Supplementary Conditions or elsewhere in the Contract) evidence of continuation of such insurance at final payment and three years thereafter.
 - 2. Blanket contractual liability coverage, to the extent permitted by law, including but not limited to coverage of Contractor's contractual indemnity obligations in Paragraph 7.18.
 - 3. Broad form property damage coverage.
 - 4. Severability of interest.
 - 5. Underground, explosion, and collapse coverage.
 - 6. Personal injury coverage.
 - 7. Additional insured endorsements that include both ongoing operations and products and completed operations coverage through ISO Endorsements CG 20

10 10 01 and CG 20 37 10 01 (together); or CG 20 10 07 04 and CG 20 37 07 04 (together); or their equivalent.

8. For design professional additional insureds, ISO Endorsement CG 20 32 07 04, "Additional Insured—Engineers, Architects or Surveyors Not Engaged by the Named Insured" or its equivalent.
- D. *Automobile liability*: Contractor shall purchase and maintain automobile liability insurance against claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance, or use of any motor vehicle. The automobile liability policy shall be written on an occurrence basis.
- E. *Umbrella or excess liability*: Contractor shall purchase and maintain umbrella or excess liability insurance written over the underlying employer's liability, commercial general liability, and automobile liability insurance described in the paragraphs above. Subject to industry-standard exclusions, the coverage afforded shall follow form as to each and every one of the underlying policies.
- F. *Contractor's pollution liability insurance*: Contractor shall purchase and maintain a policy covering third-party injury and property damage claims, including clean-up costs, as a result of pollution conditions arising from Contractor's operations and completed operations. This insurance shall be maintained for no less than three years after final completion.
- G. *Additional insureds*: The Contractor's commercial general liability, automobile liability, umbrella or excess, and pollution liability policies shall include and list as additional insureds Owner and Engineer, and any individuals or entities identified in the Supplementary Conditions; include coverage for the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of all such additional insureds; and the insurance afforded to these additional insureds shall provide primary coverage for all claims covered thereby (including as applicable those arising from both ongoing and completed operations) on a non-contributory basis. Contractor shall obtain all necessary endorsements to support these requirements.
- H. *Contractor's professional liability insurance*: If Contractor will provide or furnish professional services under this Contract, through a delegation of professional design services or otherwise, then Contractor shall be responsible for purchasing and maintaining applicable professional liability insurance. This insurance shall provide protection against claims arising out of performance of professional design or related services, and caused by a negligent error, omission, or act for which the insured party is legally liable. It shall be maintained throughout the duration of the Contract and for a minimum of two years after Substantial Completion. If such professional design services are performed by a Subcontractor, and not by Contractor itself, then the requirements of this paragraph may be satisfied through the purchasing and maintenance of such insurance by such Subcontractor.
- I. *General provisions*: The policies of insurance required by this Paragraph 6.03 shall:
 1. include at least the specific coverages provided in this Article.
 2. be written for not less than the limits of liability provided in this Article and in the Supplementary Conditions, or required by Laws or Regulations, whichever is greater.
 3. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed, or renewal refused until at least 30 days prior

written notice has been given to Contractor, Owner, and Engineer and each other insured under the policy.

4. remain in effect at least until final payment (and longer if expressly required in this Article) and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work as a warranty or correction obligation, or otherwise, or returning to the Site to conduct other tasks arising from the Contract Documents.
 5. be appropriate for the Work being performed and provide protection from claims that may arise out of or result from Contractor's performance of the Work and Contractor's other obligations under the Contract Documents, whether it is to be performed by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable.
- J. The coverage requirements for specific policies of insurance must be met by such policies, and not by reference to excess or umbrella insurance provided in other policies.
6. Contractor's insurance shall be primary and non-contributory.
 7. Insurance policies shall be written on an occurrence basis only.
 8. The Contractor shall require all Subcontractors to provide Workers' Compensation, CGL, and Automobile Liability Insurance with the same minimum limits specified herein, unless the Owner agrees to a lesser amount.

6.04 *Owner's Liability Insurance*

- A. In addition to the insurance required to be provided by Contractor under Paragraph 6.03, Owner, at Owner's option, may purchase and maintain at Owner's expense Owner's own liability insurance as will protect Owner against claims which may arise from operations under the Contract Documents.
- B. Owner's liability policies, if any, operate separately and independently from policies required to be provided by Contractor, and Contractor cannot rely upon Owner's liability policies for any of Contractor's obligations to the Owner, Engineer, or third parties.

6.05 *Property Insurance*

- A. *Builder's Risk:* Contractor shall purchase and maintain builder's risk insurance upon the Work on a completed value basis, in the amount of the full insurable replacement cost thereof. Insurance shall be completed value form. This insurance shall:
 1. include the Owner and Contractor as named insureds, and all Subcontractors, and any individuals or entities required by the Supplementary Conditions to be insured under such builder's risk policy, as insureds or named insureds. For purposes of the remainder of this Paragraph 6.05, Paragraphs 6.06 and 6.07, and any corresponding Supplementary Conditions, the parties required to be insured shall collectively be referred to as "insureds." Insurance certificates shall specifically indicate by name the additional insureds which are to include Owner and Engineer as well as other individuals or entities so identified.
 2. be written on a builder's risk "all risk" policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, falsework, and materials and equipment in transit, and shall insure against at

least the following perils or causes of loss: fire; lightning; windstorm; riot; civil commotion; terrorism; vehicle impact; aircraft; smoke; theft; vandalism and malicious mischief; mechanical breakdown, boiler explosion, and artificially generated electric current; earthquake; volcanic activity, and other earth movement; flood; collapse; explosion; debris removal; demolition occasioned by enforcement of Laws and Regulations; water damage (other than that caused by flood); and such other perils or causes of loss as may be specifically required by the Supplementary Conditions. If insurance against mechanical breakdown, boiler explosion, and artificially generated electric current; earthquake; volcanic activity, and other earth movement; or flood, are not commercially available under builder's risk policies, by endorsement or otherwise, such insurance may be provided through other insurance policies acceptable to Owner.

3. cover, as insured property, at least the following: (a) the Work and all materials, supplies, machinery, apparatus, equipment, fixtures, and other property of a similar nature that are to be incorporated into or used in the preparation, fabrication, construction, erection, or completion of the Work, including Owner-furnished or assigned property; (b) spare parts inventory required within the scope of the Contract; and (c) temporary works which are not intended to form part of the permanent constructed Work but which are intended to provide working access to the Site, or to the Work under construction, or which are intended to provide temporary support for the Work under construction, including scaffolding, form work, fences, shoring, falsework, and temporary structures.
 4. cover expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects).
 5. cover the total value of materials and equipment supplied under the Contract from the time Contractor takes possession of them until they are installed and tested by Contractor and the project is accepted as complete by Owner under an endorsement to this policy or in the form of Installation Floater Insurance of the "all risk" type.
 6. extend to cover damage or loss to insured property while in transit.
 7. allow for partial occupation or use of the Work by Owner, such that those portions of the Work that are not yet occupied or used by Owner shall remain covered by the builder's risk insurance.
 8. allow for the waiver of the insurer's subrogation rights, as set forth below.
 9. provide primary coverage for all losses and damages caused by the perils or causes of loss covered.
 10. not include a co-insurance clause.
 11. include an exception for ensuing losses from physical damage or loss with respect to any defective workmanship, design, or materials exclusions.
 12. include performance/hot testing and start-up.
 13. be maintained in effect, subject to the provisions herein regarding Substantial Completion and partial occupancy or use of the Work by Owner, until the Work is complete.
- B. *Notice of Cancellation or Change:* All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with this Paragraph 6.05 will contain a provision or endorsement that the coverage

afforded will not be canceled or materially changed or renewal refused until at least 10 days prior written notice has been given to the purchasing policyholder. Within three days of receipt of any such written notice, the purchasing policyholder shall provide a copy of the notice to each other insured.

- C. *Deductibles*: Contractor shall be responsible for any deductible or self-insured retention.
- D. *Partial Occupancy or Use by Owner*: If Owner will occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work as provided in Paragraph 15.04, then Owner (through Contractor) will provide notice of such occupancy or use to the builder's risk insurer. The builder's risk insurance shall not be canceled or permitted to lapse on account of any such partial use or occupancy; rather, those portions of the Work that are occupied or used by Owner may come off the builder's risk policy, while those portions of the Work not yet occupied or used by Owner shall remain covered by the builder's risk insurance.
- E. *Additional Insurance*: If Contractor elects to obtain other special insurance to be included in or supplement the builder's risk or property insurance policies provided under this Paragraph 6.05, it may do so at Contractor's expense.
- F. *Insurance of Other Property*: If the express insurance provisions of the Contract do not require or address the insurance of a property item or interest, such as tools, construction equipment, or other personal property owned by Contractor, a Subcontractor, or an employee of Contractor or a Subcontractor, then the entity or individual owning such property item will be responsible for deciding whether to insure it, and if so in what amount.
- G. *Payment of Deductible*: Contractor shall pay all deductible provisions applicable to claims related to the Project made under and paid by insurance. If more than one Contractor is responsible for the incident giving rise to the insurance coverage, the Contractors shall be responsible on a pro rata basis, according to their responsibility for the occurrence or accident giving rise to the claim, for payment of the deductible. The risk of loss within such identified deductible amount will be borne by Contractor, Subcontractors, or others suffering any such loss, and if any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense.

6.06 *Waiver of Rights*

- A. All policies purchased in accordance with Paragraph 6.05, expressly including the builder's risk policy, shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any insureds thereunder, or against Engineer or its consultants, or their officers, directors, members, partners, employees, agents, consultants, or subcontractors. Owner and Contractor waive all rights against each other and the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work; and, in addition, waive all such rights against Engineer, its consultants, all Subcontractors, all individuals or entities identified in the Supplementary Conditions as insureds, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, under such policies for losses and damages so caused. None of the above waivers shall extend to the rights that any party making such waiver may have to the

proceeds of insurance held by Owner or Contractor as trustee or fiduciary, or otherwise payable under any policy so issued.

- B. Owner waives all rights against Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, for:
 - 1. loss due to business interruption, loss of use, or other consequential loss extending beyond direct physical loss or damage to Owner's property or the Work caused by, arising out of, or resulting from fire or other perils whether or not insured by Owner; and
 - 2. loss or damage to the completed Project or part thereof caused by, arising out of, or resulting from fire or other insured peril or cause of loss covered by any property insurance maintained on the completed Project or part thereof by Owner during partial occupancy or use pursuant to Paragraph 15.04, after Substantial Completion pursuant to Paragraph 15.03, or after final payment pursuant to Paragraph 15.06.
- C. Any insurance policy maintained by Owner covering any loss, damage or consequential loss referred to in Paragraph 6.06.B shall contain provisions to the effect that in the event of payment of any such loss, damage, or consequential loss, the insurers will have no rights of recovery against Contractor, Subcontractors, or Engineer, or the officers, directors, members, partners, employees, agents, consultants, or subcontractors of each and any of them.
- D. Contractor shall be responsible for assuring that the agreement under which a Subcontractor performs a portion of the Work contains provisions whereby the Subcontractor waives all rights against Owner, Contractor, all individuals or entities identified in the Supplementary Conditions as insureds, the Engineer and its consultants, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, relating to, or resulting from any of the perils or causes of loss covered by builder's risk insurance and any other property insurance applicable to the Work.

6.07 *Receipt and Application of Property Insurance Proceeds*

- A. Any insured loss under the builder's risk and other policies of insurance required by Paragraph 6.05 will be adjusted and settled with the named insured that purchased the policy. Such named insured shall act as fiduciary for the other insureds, and give notice to such other insureds that adjustment and settlement of a claim is in progress. Any other insured may state its position regarding a claim for insured loss in writing within 15 days after notice of such claim.
- B. Proceeds for such insured losses may be made payable by the insurer either jointly to multiple insureds, or to the named insured that purchased the policy in its own right and as fiduciary for other insureds, subject to the requirements of any applicable mortgage clause. A named insured receiving insurance proceeds under the builder's risk and other policies of insurance required by Paragraph 6.05 shall distribute such proceeds in accordance with such agreement as the parties in interest may reach, or as otherwise required under the dispute resolution provisions of this Contract or applicable Laws and Regulations.

- C. If no other special agreement is reached, the damaged Work shall be repaired or replaced, the money so received applied on account thereof, and the Work and the cost thereof covered by Change Order, if needed.

ARTICLE 7 – CONTRACTOR’S RESPONSIBILITIES

7.01 *Supervision and Superintendence*

- A. Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction.
- B. At all times during the progress of the Work, Contractor shall assign a competent resident superintendent who shall have full authority to act on behalf of Contractor and who shall not be replaced without written notice to Owner and Engineer except under extraordinary circumstances.

7.02 *Labor; Working Hours*

- A. Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. Contractor shall at all times maintain good discipline and order at the Site.
- B. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site shall be performed during regular working hours, Monday through Friday. Contractor will not perform Work on a Saturday, Sunday, or any legal holiday. Contractor may perform Work outside regular working hours or on Saturdays, Sundays, or legal holidays only with Owner’s written consent, which will not be unreasonably withheld.

7.03 *Services, Materials, and Equipment*

- A. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start up, and completion of the Work, whether or not such items are specifically called for in the Contract Documents. The foregoing items and services shall all be included in Contractor’s original bid and no additional payments shall be made for the provision of any of the foregoing items and services.
- B. All materials and equipment incorporated into the Work shall be of good quality and new, except as otherwise provided in the Contract Documents. All special warranties and guarantees required by the Specifications shall expressly run to the benefit of Owner. If required by Engineer, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment. Contractor warrants that all materials and equipment are suitable and fit for the intended use of such materials and equipment and are free from defects in material, workmanship, or design. The foregoing applies whether or not the materials or equipment are specified in the Contract Documents.

- C. All materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

7.04 "Or Equals"

- A. Substitutions prior to the receipt of bids shall be governed by the Instruction to Bidders. Substitutions after the entry into the Agreement shall be governed by these Modified General Conditions.
 - 1. If Engineer in its sole discretion determines that an item of material or equipment proposed by Contractor is functionally equal to that named and sufficiently similar so that no change in related Work will be required, Engineer shall deem it an "or equal" item. For the purposes of this paragraph, a proposed item of material or equipment will be considered functionally equal to an item so named if:
 - a. in the exercise of reasonable judgment Engineer determines that:
 - 1) it is at least equal in materials of construction, quality, durability, appearance, strength, and design characteristics;
 - 2) it will reliably perform at least equally well the function and achieve the results imposed by the design concept of the completed Project as a functioning whole;
 - 3) it has a proven record of performance and availability of responsive service; and
 - 4) it is not objectionable to Owner.
 - b. Contractor certifies that, if approved and incorporated into the Work:
 - 1) there will be no increase in cost to the Owner or increase in Contract Times; and
 - 2) it will conform substantially to the detailed requirements of the item named in the Contract Documents.
- B. *Contractor's Expense*: Contractor shall provide all data in support of any proposed "or equal" item at Contractor's expense.
- C. *Engineer's Evaluation and Determination*: Engineer will be allowed a reasonable time to evaluate each "or-equal" request. Engineer may require Contractor to furnish additional data about the proposed "or-equal" item. Engineer will be the sole judge of acceptability. No "or-equal" item will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an "or-equal", which will be evidenced by an approved Shop Drawing or other written communication. Engineer will advise Contractor in writing of any negative determination.
- D. *Effect of Engineer's Determination*: Neither approval nor denial of an "or-equal" request shall result in any change in Contract Price. The Engineer's denial of an "or-equal" request shall be final and binding, and may not be reversed through an appeal under any provision of the Contract Documents.
- E. *Treatment as a Substitution Request*. If Engineer determines that an item of material or equipment proposed by Contractor does not qualify as an "or-equal" item, Contractor may request that Engineer consider the proposed item as a substitute pursuant to Paragraph 7.05.

7.05 Substitutes

- A. Unless the specification or description of an item of material or equipment required to be furnished under the Contract Documents contains or is followed by words reading that no substitution is permitted, Contractor may request that Engineer authorize the use of other items of material or equipment under the circumstances described below. To the extent possible such requests shall be made before commencement of related construction at the Site.
1. Contractor shall submit sufficient information as provided below to allow Engineer to determine if the item of material or equipment proposed is functionally equivalent to that named and an acceptable substitute therefor. Engineer will not accept requests for review of proposed substitute items of material or equipment from anyone other than Contractor.
 2. The requirements for review by Engineer will be as set forth in Paragraph 7.05.B, as supplemented by the Specifications, and as Engineer may decide is appropriate under the circumstances.
 3. Contractor shall make written application to Engineer for review of a proposed substitute item of material or equipment that Contractor seeks to furnish or use. The application:
 - a. shall certify that the proposed substitute item will:
 - 1) perform adequately the functions and achieve the results called for by the general design,
 - 2) be similar in substance to that specified, and
 - 3) be suited to the same use as that specified.
 - b. will state:
 - 1) the extent, if any, to which the use of the proposed substitute item will necessitate a change in Contract Times,
 - 2) whether use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with Owner for other work on the Project) to adapt the design to the proposed substitute item, and
 - 3) whether incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty.
 - c. will identify:
 - 1) all variations of the proposed substitute item from that specified, and
 - 2) available engineering, sales, maintenance, repair, and replacement services.
 - d. shall contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including but not limited to changes in Contract Price, shared savings, costs of redesign, and claims of other contractors affected by any resulting change.
- B. *Engineer's Evaluation and Determination:* Engineer will be allowed a reasonable time to evaluate each substitute request, and to obtain comments and direction from

Owner. Engineer may require Contractor to furnish additional data about the proposed substitute item. Engineer will be the sole judge of acceptability. No substitute will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an acceptable substitute. Engineer's determination will be evidenced by a Field Order or a proposed Change Order accounting for the substitution itself and all related impacts, including changes in Contract Price or Contract Times. Engineer will advise Contractor in writing of any negative determination.

- C. *Special Guarantee:* Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.
- D. *Reimbursement of Engineer's Cost:* Engineer will record Engineer's costs in evaluating a substitute proposed or submitted by Contractor. Whether or not Engineer approves a substitute so proposed or submitted by Contractor, Contractor shall reimburse Owner for the reasonable charges of Engineer for evaluating each such proposed substitute. Contractor shall also reimburse Owner for the reasonable charges of Engineer for making changes in the Contract Documents (or in the provisions of any other direct contract with Owner) resulting from the acceptance of each proposed substitute. In the instance where the Engineer is the City of Gahanna Engineer, the foregoing work shall be charged at a rate of \$75.00 per hour for any City of Gahanna employee performing the tasks contemplated in this paragraph.
- E. *Contractor's Expense:* Contractor shall provide all data in support of any proposed substitute at Contractor's expense.
- F. *Effect of Engineer's Determination:* If Engineer approves the substitution request, Contractor shall execute the proposed Change Order and proceed with the substitution. The Engineer's denial of a substitution request shall be final and binding, and may not be reversed through an appeal under any provision of the Contract Documents. Contractor may challenge the scope of reimbursement costs imposed under Paragraph 7.05.D, by timely submittal of a Change Proposal.

7.06 *Concerning Subcontractors, Suppliers, and Others*

- A. Contractor may retain Subcontractors and Suppliers for the performance of parts of the Work. Such Subcontractors and Suppliers must be acceptable to Owner.
- B. Contractor shall retain specific Subcontractors, Suppliers, or other individuals or entities for the performance of designated parts of the Work if required by the Contract to do so.
- C. Subsequent to the submittal of Contractor's Bid or final negotiation of the terms of the Contract, Owner may not require Contractor to retain any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against which Contractor has reasonable objection. If Owner or Engineer, after due investigation, has reasonable objections to any proposed Subcontractor, Supplier, or other individual or entity, either may request Contractor submit an acceptable substitute without an increase in Contract Price, and the Contractor shall do so within ten (10) days.
- D. Prior to entry into any binding subcontract or purchase order, Contractor shall submit to Owner the identity of the proposed Subcontractor or Supplier (unless Owner has already deemed such proposed Subcontractor or Supplier acceptable, during the bidding process or otherwise). Such proposed Subcontractor or Supplier shall be deemed acceptable to Owner unless Owner raises a substantive, reasonable

objection within five days. The Owner's acceptance or failure to raise an objection shall not relieve the Contractor of its liability for the acts, omissions, or breaches of contract by its subcontractors or suppliers.

- E. Owner may require the replacement of any Subcontractor, Supplier, employee, or other individual or entity retained by Contractor to perform any part of the Work. Owner also may require Contractor to retain specific replacements; provided, however, that Owner may not require a replacement to which Contractor has a reasonable objection. If Contractor has submitted the identity of certain Subcontractors, Suppliers, or other individuals or entities for acceptance by Owner, and Owner has accepted it (either in writing or by failing to make written objection thereto), then Owner may subsequently revoke the acceptance of any such Subcontractor, Supplier, or other individual or entity so identified solely on the basis of substantive, reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor, Supplier, or other individual or entity. Cause for removal shall include but not be limited to incompetent, unfaithful, or disorderly behavior, refusal to carry out any provision of the Contract Documents, careless or unsatisfactory work, or disrespectful, threatening or abusive language to any supervisor of the work or to the public.
- F. If Owner requires the replacement of any Subcontractor, Supplier, employee, or other individual or entity retained by Contractor to perform any part of the Work, then Contractor shall not be entitled to an adjustment in Contract Price or Contract Times, or both, with respect to the replacement; and Contractor shall initiate a Change Proposal for such adjustment within 30 days of Owner's requirement of replacement.
- G. No acceptance by Owner of any such Subcontractor, Supplier, employee, or other individual or entity, whether initially or as a replacement, shall constitute a waiver of the right of Owner to the completion of the Work in accordance with the Contract Documents.
- H. On a monthly basis Contractor shall submit to Engineer a complete list of all Subcontractors and Suppliers having a direct contract with Contractor, and of all other Subcontractors and Suppliers known to Contractor at the time of submittal.
- I. Contractor shall be fully responsible to Owner and Engineer for all acts and omissions of the Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work just as Contractor is responsible for Contractor's own acts and omissions.
- J. Contractor shall be solely responsible for scheduling and coordinating the work of Subcontractors, Suppliers, and all other individuals or entities performing or furnishing any of the Work.
- K. Contractor shall restrict all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work from communicating with Engineer or Owner, except through Contractor or in case of an emergency, or as otherwise expressly allowed herein.
- L. The divisions and sections of the Specifications and the identifications of any Drawings shall not control Contractor in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade.
- M. All Work performed for Contractor by a Subcontractor or Supplier shall be pursuant to an appropriate contractual agreement that specifically binds the Subcontractor or

Supplier to the applicable terms and conditions of the Contract Documents for the benefit of Owner and Engineer.

- N. Owner may furnish to any Subcontractor or Supplier, to the extent practicable, information about amounts paid to Contractor on account of Work performed for Contractor by the particular Subcontractor or Supplier.
- O. Nothing in the Contract Documents:
 - 1. shall create for the benefit of any such Subcontractor, Supplier, or other individual or entity any contractual relationship between Owner or Engineer and any such Subcontractor, Supplier, or other individual or entity; nor
 - 2. shall create any obligation on the part of Owner or Engineer to pay or to see to the payment of any money due any such Subcontractor, Supplier, or other individual or entity except as may otherwise be required by Laws and Regulations.
- P. The Owner shall be an intended third-party beneficiary of Contractor's agreements with its consultants, subcontractors, and suppliers.

7.07 *Patent Fees and Royalties*

- A. Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if, to the actual knowledge of Owner or Engineer, its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by Owner in the Contract Documents.
- B. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

7.08 *Permits*

- A. Unless otherwise provided in the Contract Documents, Contractor shall obtain and pay for all construction permits and licenses. Owner shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of the submission of Contractor's Bid (or when Contractor became bound under a negotiated contract). Owner shall pay all charges of utility owners for connections for providing permanent service to the Work and other agencies or entities as may be required by the nature of the Work.

7.09 *Taxes*

- A. Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by Contractor in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

- B. Materials purchased for use or consumption in connection with the proposed Work will be exempt from the State of Ohio Sales Tax, as provided in Section 5739.02 of the Ohio Revised Code, and also from the State of Ohio Use Tax, as provided in Section 5741.01 of the Ohio Revised Code. The Owner will provide the Contractor with a Construction Tax Exempt Certificate upon request, made through the Engineer.
- C. Purchases by the Contractor of expendable items, such as form lumber, tools, oil, greases, fuel, or equipment rentals, are subject to the application of Ohio Sales or Use Taxes.
- D. In addition to any other taxes required to be withheld by the Contractor, the Contractor shall withhold any income taxes due to the Owner for wages, salaries and commissions paid to its employees for work done under this Agreement and further agrees that any of its subcontractors shall, by the terms of its subcontract, be required to withhold any such income taxes due for work performed under this Agreement.

7.10 *Laws and Regulations*

- A. Contractor shall give all notices required by and shall comply with all Laws and Regulations applicable to the performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither Owner nor Engineer shall be responsible for monitoring Contractor's compliance with any Laws or Regulations.
- B. If Contractor performs any Work or takes any other action knowing or having reason to know that it is contrary to Laws or Regulations, Contractor shall bear all resulting costs and losses, and shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work or other action. It shall not be Contractor's responsibility to make certain that the Work described in the Contract Documents is in accordance with Laws and Regulations, but this shall not relieve Contractor of Contractor's obligations under Paragraph 3.03.

7.11 *Record Documents*

- A. Contractor shall maintain in a safe place at the Site two record copies of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, written interpretations and clarifications, and approved Shop Drawings. Contractor shall keep such record documents in good order and annotate them to show changes made during construction. These record documents, together with all approved Samples, will be available to Engineer for reference. Upon completion of the Work, Contractor shall deliver these record documents, samples, and shop drawings to the Engineer no later than the date for Substantial Completion for the Engineer's review and transmitted to the Owner.

7.12 *Safety and Protection*

- A. Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. Such responsibility does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with applicable safety Laws and Regulations. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury, or loss to:

1. all persons on the Site or who may be affected by the Work;
 2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and
 3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, other work in progress, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.
- B. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify Owner; the owners of adjacent property, Underground Facilities, and other utilities; and other contractors and utility owners performing work at or adjacent to the Site, when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property or work in progress.
- C. Contractor shall comply with the applicable requirements of Owner's safety programs, if any. The Supplementary Conditions identify any Owner's safety programs that are applicable to the Work.
- D. Contractor shall inform Owner and Engineer of the specific requirements of Contractor's safety program with which Owner's and Engineer's employees and representatives must comply while at the Site.
- E. All damage, injury, or loss to any property referred to in Paragraph 7.12.A.2 or 7.12.A.3 caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor at its expense (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of Owner or Engineer or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of Contractor or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them).
- F. Contractor's duties and responsibilities for safety and protection shall continue until such time as all the Work is completed and Engineer has issued a notice to Owner and Contractor in accordance with Paragraph 15.06.B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).
- G. Contractor's duties and responsibilities for safety and protection shall resume whenever Contractor or any Subcontractor or Supplier returns to the Site to fulfill warranty or correction obligations, or to conduct other tasks arising from the Contract Documents.

7.13 *Safety Representative*

- A. Contractor shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.
- B. Contractor shall keep at the Site at all times during the progress of the Work a competent person to comply with OSHA trenching and excavation requirements. The competent person shall be one who is capable of identifying existing and predictable

hazards in the surroundings, or working conditions that are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

7.14 *Hazard Communication Programs*

- A. Contractor shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

7.15 *Emergencies*

- A. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent threatened damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If Engineer determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, a Work Change Directive or Change Order will be issued.

7.16 *Shop Drawings, Samples, and Other Submittals*

- A. *Shop Drawing and Sample Submittal Requirements:*
 - 1. Before submitting a Shop Drawing or Sample, Contractor shall have:
 - a. reviewed and coordinated the Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents;
 - b. determined and verified all field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;
 - c. determined and verified the suitability of all materials and equipment offered with respect to the indicated application, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work; and
 - d. determined and verified all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto.
 - 2. Each submittal shall bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents with respect to Contractor's review of that submittal, and that Contractor approves the submittal.
 - 3. With each submittal, Contractor shall give Engineer specific written notice of any variations that the Shop Drawing or Sample may have from the requirements of the Contract Documents. This notice shall be set forth in a written communication separate from the Shop Drawings or Sample submittal; and, in addition, in the case of Shop Drawings by a specific notation made on each Shop Drawing submitted to Engineer for review and approval of each such variation.

- B. *Submittal Procedures for Shop Drawings and Samples:* Contractor shall submit Shop Drawings and Samples to Engineer for review and approval in accordance with the accepted Schedule of Submittals. Each submittal will be identified as Engineer may require.
1. *Shop Drawings:*
 - a. Contractor shall submit the number of copies required in the Specifications.
 - b. Data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Engineer the services, materials, and equipment Contractor proposes to provide and to enable Engineer to review the information for the limited purposes required by Paragraph 7.16.D.
 2. *Samples:*
 - a. Contractor shall submit the number of Samples required in the Specifications.
 - b. Contractor shall clearly identify each Sample as to material, Supplier, pertinent data such as catalog numbers, the use for which intended and other data as Engineer may require to enable Engineer to review the submittal for the limited purposes required by Paragraph 7.16.D.
 3. Where a Shop Drawing or Sample is required by the Contract Documents or the Schedule of Submittals, any related Work performed prior to Engineer's review and approval of the pertinent submittal will be at the sole expense and responsibility of Contractor.
- C. *Other Submittals:* Contractor shall submit other submittals to Engineer in accordance with the accepted Schedule of Submittals, and pursuant to the applicable terms of the Specifications.
- D. *Engineer's Review:*
1. Engineer will provide timely review of Shop Drawings and Samples in accordance with the Schedule of Submittals acceptable to Engineer. Engineer's review and approval will be only to determine if the items covered by the submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.
 2. Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction or to safety precautions or programs incident thereto.
 3. Engineer's review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.
 4. Engineer's review and approval of a Shop Drawing or Sample shall not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless Contractor has complied with the requirements of Paragraph 7.16.A.3 and Engineer has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample. Engineer will document any such approved variation from the requirements of the Contract Documents in a Field Order.

5. Engineer's review and approval of a Shop Drawing or Sample shall not relieve Contractor from responsibility for complying with the requirements of Paragraph 7.16.A and B.
 6. Engineer's review and approval of a Shop Drawing or Sample, or of a variation from the requirements of the Contract Documents, shall not, under any circumstances, change the Contract Times or Contract Price, unless such changes are included in a Change Order.
 7. Neither Engineer's receipt, review, acceptance or approval of a Shop Drawing, Sample, or other submittal shall result in such item becoming a Contract Document.
 8. Contractor shall perform the Work in compliance with the requirements and commitments set forth in approved Shop Drawings and Samples, subject to the provisions of Paragraph 7.16.D.4.
- E. *Resubmittal Procedures:*
1. Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of Shop Drawings and submit, as required, new Samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous submittals.
 2. Contractor shall furnish required submittals with sufficient information and accuracy to obtain required approval of an item with no more than three submittals. Engineer will record Engineer's time for reviewing a fourth or subsequent submittal of a Shop Drawings, sample, or other item requiring approval, and Contractor shall be responsible for Engineer's charges to Owner for such time. Owner may impose a set-off against payments due to Contractor to secure reimbursement for such charges.
 3. If Contractor requests a change of a previously approved submittal item, Contractor shall be responsible for Engineer's charges to Owner for its review time, and Owner may impose a set-off against payments due to Contractor to secure reimbursement for such charges, unless the need for such change is beyond the control of Contractor.

7.17 *Contractor's General Warranty and Guarantee*

- A. Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer and its officers, directors, members, partners, employees, agents, consultants, and subcontractors shall be entitled to rely on Contractor's warranty and guarantee.
- B. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:
 1. abuse, modification, or improper maintenance or operation by persons other than Contractor, Subcontractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or
 2. normal wear and tear under normal usage.
- C. Contractor's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a

release of Contractor's obligation to perform the Work in accordance with the Contract Documents:

1. observations by Engineer;
 2. recommendation by Engineer or payment by Owner of any progress or final payment;
 3. the issuance of a certificate of Substantial Completion by Engineer or any payment related thereto by Owner;
 4. use or occupancy of the Work or any part thereof by Owner;
 5. any review and approval of a Shop Drawing or Sample submittal;
 6. the issuance of a notice of acceptability by Engineer;
 7. any inspection, test, or approval by others; or
 8. any correction of defective Work by Owner.
- D. If the Contract requires the Contractor to accept the assignment of a contract entered into by Owner, then the specific warranties, guarantees, and correction obligations contained in the assigned contract shall govern with respect to Contractor's performance obligations to Owner for the Work described in the assigned contract.

7.18 *Indemnification*

- A. To the fullest extent permitted by Laws and Regulations, and in addition to any other obligations of Contractor under the Contract or otherwise, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work, but only to the extent caused by any breach of contract, negligent act or omission of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts any of them may be liable.
- B. In any and all claims against Owner or Engineer or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under Paragraph 7.18.A shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.

7.19 *Delegation of Professional Design Services*

- A. Contractor will not be required to provide professional design services unless such services are specifically required by the Contract Documents for a portion of the Work or unless such services are required to carry out Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. Contractor shall not be required to provide professional services in violation of applicable Laws and Regulations.

- B. If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of Contractor by the Contract Documents, Owner and Engineer will specify all performance and design criteria that such services must satisfy. Contractor shall cause such services or certifications to be provided by a properly licensed professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to Engineer.
- C. Owner and Engineer shall be entitled to rely upon the adequacy, accuracy, and completeness of the services, certifications, or approvals performed by such design professionals, provided Owner and Engineer have specified to Contractor all performance and design criteria that such services must satisfy.
- D. Pursuant to this paragraph, Engineer's review and approval of design calculations and design drawings will be only for the limited purpose of checking for conformance with performance and design criteria given and the design concept expressed in the Contract Documents. Engineer's review and approval of Shop Drawings and other submittals (except design calculations and design drawings) will be only for the purpose stated in Paragraph 7.16.D.1.
- E. Contractor shall not be responsible for the adequacy of the performance or design criteria specified by Owner or Engineer.

ARTICLE 8 – OTHER WORK AT THE SITE

8.01 *Other Work*

- A. In addition to and apart from the Work under the Contract Documents, the Owner may perform other work at or adjacent to the Site. Such other work may be performed by Owner's employees, or through contracts between the Owner and third parties. Owner may also arrange to have third-party utility owners perform work on their utilities and facilities at or adjacent to the Site.
- B. If Owner performs other work at or adjacent to the Site with Owner's employees, or through contracts for such other work, then Owner shall give Contractor written notice thereof prior to starting any such other work. If Owner has advance information regarding the start of any utility work at or adjacent to the Site, Owner shall provide such information to Contractor.
- C. Contractor shall afford each other contractor that performs such other work, each utility owner performing other work, and Owner, if Owner is performing other work with Owner's employees, proper and safe access to the Site, and provide a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work. Contractor shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering such work; provided, however, that Contractor may cut or alter others' work with the written consent of Engineer and the others whose work will be affected.
- D. If the proper execution or results of any part of Contractor's Work depends upon work performed by others under this Article 8, Contractor shall inspect such other work and promptly report to Engineer in writing any delays, defects, or deficiencies in such other

work that render it unavailable or unsuitable for the proper execution and results of Contractor's Work. Contractor's failure to so report will constitute an acceptance of such other work as fit and proper for integration with Contractor's Work except for latent defects and deficiencies in such other work.

8.02 *Coordination*

- A. If Owner intends to contract with others for the performance of other work at or adjacent to the Site, to perform other work at or adjacent to the Site with Owner's employees, or to arrange to have utility owners perform work at or adjacent to the Site, the following will be set forth in the Supplementary Conditions or provided to Contractor prior to the start of any such other work:
 - 1. the identity of the individual or entity that will have authority and responsibility for coordination of the activities among the various contractors;
 - 2. an itemization of the specific matters to be covered by such authority and responsibility; and
 - 3. the extent of such authority and responsibilities.
- B. Unless otherwise provided in the Supplementary Conditions, Owner shall have sole authority and responsibility for such coordination.

8.03 *Legal Relationships*

- A. If, in the course of performing other work at or adjacent to the Site for Owner, the Owner's employees, any other contractor working for Owner, or any utility owner causes damage to the Work or to the property of Contractor or its Subcontractors, or delays, disrupts, interferes with, or increases the scope or cost of the performance of the Work, through actions or inaction, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times, or both. Contractor must submit any Change Proposal seeking an equitable adjustment in the Contract Price or the Contract Times under this paragraph within 30 days of the damaging, delaying, disrupting, or interfering event. The entitlement to, and extent of, any such equitable adjustment shall take into account information (if any) regarding such other work that was provided to Contractor in the Contract Documents prior to the submittal of the Bid or the final negotiation of the terms of the Contract. When applicable, any such equitable adjustment in Contract Price shall be conditioned on Contractor assigning to Owner all Contractor's rights against such other contractor or utility owner with respect to the damage, delay, disruption, or interference that is the subject of the adjustment. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.
- B. Contractor shall take reasonable and customary measures to avoid damaging, delaying, disrupting, or interfering with the work of Owner, any other contractor, or any utility owner performing other work at or adjacent to the Site. If Contractor fails to take such measures and as a result damages, delays, disrupts, or interferes with the work of any such other contractor or utility owner, then Owner may impose a set-off against payments due to Contractor, and assign to such other contractor or utility owner the Owner's contractual rights against Contractor with respect to the breach of the obligations set forth in this paragraph.
- C. When Owner is performing other work at or adjacent to the Site with Owner's employees, Contractor shall be liable to Owner for damage to such other work, and for the reasonable direct delay, disruption, and interference costs incurred by Owner

as a result of Contractor's failure to take reasonable and customary measures with respect to Owner's other work. In response to such damage, delay, disruption, or interference, Owner may impose a set-off against payments due to Contractor.

- D. If Contractor damages, delays, disrupts, or interferes with the work of any other contractor, or any utility owner performing other work at or adjacent to the Site, through Contractor's failure to take reasonable and customary measures to avoid such impacts, or if any claim arising out of Contractor's actions, inactions, or negligence in performance of the Work at or adjacent to the Site is made by any such other contractor or utility owner against Contractor, Owner, or Engineer, then Contractor shall (1) promptly attempt to settle the claim as to all parties through negotiations with such other contractor or utility owner, or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law, and (2) indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against any such claims, and against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such damage, delay, disruption, or interference.

ARTICLE 9 – OWNER'S RESPONSIBILITIES

9.01 *Communications to Contractor*

- A. Except as otherwise provided in these General Conditions, Owner shall issue all communications to Contractor through Engineer.

9.02 *Replacement of Engineer*

- A. Owner may at its discretion appoint an engineer to replace Engineer. The replacement engineer's status under the Contract Documents shall be that of the former Engineer.

9.03 *Furnish Data*

- A. Owner shall promptly furnish the data required of Owner under the Contract Documents.

9.04 *Pay When Due*

- A. Owner shall make payments to Contractor when they are due as provided in the Agreement.

9.05 *Lands and Easements; Reports, Tests, and Drawings*

- A. Owner's duties with respect to providing lands and easements are set forth in Paragraph 5.01.
- B. Owner's duties with respect to providing engineering surveys to establish reference points are set forth in Paragraph 4.03.
- C. Article 5 refers to Owner's identifying and making available to Contractor copies of reports of explorations and tests of conditions at the Site, and drawings of physical conditions relating to existing surface or subsurface structures at the Site.

9.06 *Insurance*

- A. Owner's responsibilities, if any, with respect to purchasing and maintaining liability and property insurance are set forth in Article 6.

9.07 *Change Orders*

- A. Owner's responsibilities with respect to Change Orders are set forth in Article 11.

9.08 *Inspections, Tests, and Approvals*

- A. Owner's responsibility with respect to certain inspections, tests, and approvals is set forth in Paragraph 14.02.B.

9.09 *Limitations on Owner's Responsibilities*

- A. The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Owner will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents. Contractor agrees that, without assuming any liability, Owner may bring to the Contractor's attention any hazardous or unsafe practice that the Owner may notice and Contractor shall immediately rectify the unsafe condition at its own expense.

9.10 *Undisclosed Hazardous Environmental Condition*

- A. Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 5.06.

9.11 *Evidence of Financial Arrangements*

- A. The Owner shall provide the Contractor with a certificate from its fiscal officer as to the availability of funds.

9.12 *Safety Programs*

- A. While at the Site, Owner's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Owner has been informed.
- B. Owner shall furnish copies of any applicable Owner safety programs to Contractor.

ARTICLE 10 – ENGINEER'S STATUS DURING CONSTRUCTION

10.01 *Owner's Representative*

- A. Engineer will be Owner's representative during the construction period. The duties and responsibilities and the limitations of authority of Engineer as Owner's representative during construction are set forth in the Contract.

10.02 *Visits to Site*

- A. Engineer will make visits to the Site at intervals appropriate to the various stages of construction as Engineer deems necessary in order to observe as an experienced and qualified design professional the progress that has been made and the quality of the various aspects of Contractor's executed Work. Based on information obtained during such visits and observations, Engineer, for the benefit of Owner, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. Engineer will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. Engineer's efforts will be directed toward providing for Owner a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and

observations, Engineer will keep Owner informed of the progress of the Work and will endeavor to guard Owner against defective Work.

- B. Engineer's visits and observations are subject to all the limitations on Engineer's authority and responsibility set forth in Paragraph 10.08. Particularly, but without limitation, during or as a result of Engineer's visits or observations of Contractor's Work, Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work.

10.03 *Project Representative*

- A. If Owner and Engineer have agreed that Engineer will furnish a Resident Project Representative to represent Engineer at the Site and assist Engineer in observing the progress and quality of the Work, then the authority and responsibilities of any such Resident Project Representative will be as provided in the Contract Documents, and limitations on the responsibilities thereof will be as provided in Paragraph 10.08. If Owner designates a representative or agent to represent Owner at the Site who is not Engineer's consultant, agent, or employee, the responsibilities and authority and limitations thereon of such other individual will be subject to the Contract Documents, specifically including the requirement in the Agreement that any Change Order or other Modification be authorized by the Owner.

10.04 *Rejecting Defective Work*

- A. Engineer has the authority to reject Work in accordance with Article 14.

10.05 *Shop Drawings, Change Orders and Payments*

- A. Engineer's authority, and limitations thereof, as to Shop Drawings and Samples, are set forth in Paragraph 7.16.
- B. Engineer's authority, and limitations thereof, as to design calculations and design drawings submitted in response to a delegation of professional design services, if any, are set forth in Paragraph 7.19.
- C. Engineer's authority as to Change Orders is set forth in Article 11.
- D. Engineer's authority as to Applications for Payment is set forth in Article 15.

10.06 *Determinations for Unit Price Work*

- A. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor as set forth in Paragraph 13.03.
- B. Unit Price Work for which a typical cross section or other detail from the Contract Documents applies shall be paid only up to the quantity determined by using the dimensions provided in the typical cross section or other detail. By way of example, this provision means that if a typical trench width detail in the Drawings shows a maximum width of 30-inches, all pay quantities associated with the actual work of constructing the detail shall be calculated using a trench width not greater than 30-inches. This means that the actual pay quantity could also be less than that based upon a 30-inch wide trench, if the actual trench width is smaller and otherwise in conformance with the Contract Documents, but the Contractor would not be paid more if the actual trench width exceeds 30 inches. Contractor is responsible for determining

what actual trench width may be required due to field conditions and applicable laws and regulations existing at the time of its bid.

10.07 *Decisions on Requirements of Contract Documents and Acceptability of Work*

- A. Engineer will render decisions regarding the requirements of the Contract Documents, and judge the acceptability of the Work, pursuant to the specific procedures set forth herein for initial interpretations, Change Proposals, and acceptance of the Work. In rendering such decisions and judgments, Engineer will not show partiality to Owner or Contractor, and will not be liable to Owner, Contractor, or others in connection with any proceedings, interpretations, decisions, or judgments conducted or rendered in good faith.

10.08 *Limitations on Engineer's Authority and Responsibilities*

- A. Neither Engineer's authority or responsibility under this Article 10 or under any other provision of the Contract, nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer, shall create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any Subcontractor, any Supplier, any other individual or entity, or to any surety for or employee or agent of any of them.
- B. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.
- C. Engineer will not be responsible for the acts or omissions of Contractor or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.
- D. Engineer's review of the final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Paragraph 15.06.A will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals, that the results certified indicate compliance with the Contract Documents.
- E. The limitations upon authority and responsibility set forth in this Paragraph 10.08 shall also apply to the Resident Project Representative, if any.

10.09 *Compliance with Safety Program*

- A. While at the Site, Engineer's employees and representatives will comply with the specific applicable requirements of Owner's and Contractor's safety programs (if any) of which Engineer has been informed.

ARTICLE 11 – AMENDING THE CONTRACT DOCUMENTS; CHANGES IN THE WORK

11.01 *Amending and Supplementing Contract Documents*

- A. The Contract Documents may be amended or supplemented by a Change Order, a Work Change Directive, or a Field Order.

1. *Change Orders:*

- a. If an amendment or supplement to the Contract Documents includes a change in the Contract Price or the Contract Times, such amendment or supplement must be set forth in a Change Order. A Change Order also may be used to establish amendments and supplements of the Contract Documents that do not affect the Contract Price or Contract Times.
 - b. Owner and Contractor may amend those terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, without the recommendation of the Engineer. Such an amendment shall be set forth in a Change Order.
 - c. Agreement on any Change Order shall constitute a final settlement of all matters relating to the change in the Work that is the subject of the Change Order, including, without limitation, all direct and indirect costs associated with such change and any and all adjustments to the Contract Price and Contract Times, unless the Contractor submits a Change Proposal and Claim in accordance with the Contract Documents.
2. *Work Change Directives:* A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the modification ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order, following negotiations by the parties as to the Work Change Directive's effect, if any, on the Contract Price and Contract Times; or, if negotiations are unsuccessful, by a determination under the terms of the Contract Documents governing adjustments, expressly including Paragraph 11.04 regarding change of Contract Price. Contractor must submit any Change Proposal seeking an adjustment of the Contract Price or the Contract Times, or both, no later than 30 days after the completion of the Work set out in the Work Change Directive.
3. *Field Orders:* Engineer may authorize minor changes in the Work if the changes do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Such changes will be accomplished by a Field Order and will be binding on Owner and also on Contractor, which shall perform the Work involved promptly. If Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, then before proceeding with the Work at issue, Contractor shall submit a Change Proposal as provided herein.

11.02 *Owner-Authorized Changes in the Work*

- A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work. Such changes shall be supported by Engineer's recommendation, to the extent the change involves the design (as set forth in the Drawings, Specifications, or otherwise), or other engineering or technical matters. Such changes may be accomplished by a Change Order, if Owner and Contractor have agreed as to the effect, if any, of the changes on Contract Times or Contract Price; or by a Work Change Directive. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved; or, in the case of a deletion in the Work, promptly cease construction

activities with respect to such deleted Work. Added or revised Work shall be performed under the applicable conditions of the Contract Documents. Nothing in this paragraph shall obligate Contractor to undertake work that Contractor reasonably concludes cannot be performed in a manner consistent with Contractor's safety obligations under the Contract Documents or Laws and Regulations.

- B. Should the Contractor conclude that an unsafe condition exists, Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Owner, and Engineer in writing. Upon receipt of the Contractor's written notice, the Owner shall obtain the services of a third-party to verify the presence or absence of the unsafe condition reported by the Contractor and, in the event such condition is found to be present, to cause it to be rendered harmless. If such third-party determines that a hazardous condition exists, the costs of such third-party along with the costs of rendering the condition harmless shall be at the Owner's expense. If such third-party determines that a hazardous or unsafe condition does not exist, the costs of the third-party shall be at the Contractor's expense, provided such unsafe condition was not caused by the Contractor or any of its consultants, subcontractors or suppliers, of any tier. Work in the affected area shall be resumed immediately following the occurrence of any one of the following events: (i) the Owner causes remedial work to be performed that results in the hazardous condition being rendered harmless; or (ii) the Owner and the Contractor, by written agreement, decide to resume performance of the Work; or (iii) the Work may safely and lawfully proceed using appropriate protective measures, as determined by a competent person employed by the Owner.

11.03 *Unauthorized Changes in the Work*

- A. Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents, as amended, modified, or supplemented, except in the case of an emergency as provided in Paragraph 7.15 or in the case of uncovering Work as provided in Paragraph 14.05.
- B. Contractor shall not proceed with any change in the Work without the appropriate written authorization. The Contractor's failure to obtain prior written authorization for a change in the Work shall constitute a waiver by the Contractor of an adjustment to the Contract Price or Contract Time for the related Work.

11.04 *Change of Contract Price*

- A. The Contract Price may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Price shall comply with the provisions of Paragraph 11.06. Any Claim for an adjustment of Contract Price shall comply with the provisions of Article 12.
- B. An adjustment in the Contract Price will be determined as follows:
 - 1. where the Work involved is covered by unit prices contained in the Contract Documents, then by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 13.03); or
 - 2. where the Work involved is not covered by unit prices contained in the Contract Documents, then by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 11.04.C.2); or

3. where the Work involved is not covered by unit prices contained in the Contract Documents and the parties do not reach mutual agreement to a lump sum, then on the basis of the Cost of the Work (determined as provided in Paragraph 13.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph 11.04.C).
- C. *Contractor's Fee*: When applicable, the Contractor's fee for overhead and profit shall be determined as follows:
1. a mutually acceptable fixed fee; or
 2. if a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:
 - a. for costs incurred under Paragraphs 13.01.B.1 and 13.01.B.2, the Contractor's fee shall be 15 percent;
 - b. for costs incurred under Paragraph 13.01.B.3, the Contractor's fee shall be five percent;
 - c. where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of Paragraphs 11.01.C.2.a and 11.01.C.2.b is that the Contractor's fee shall be based on: (1) a fee of 15 percent of the costs incurred under Paragraphs 13.01.A.1 and 13.01.A.2 by the Subcontractor that actually performs the Work, at whatever tier, and (2) with respect to Contractor itself and to any Subcontractors of a tier higher than that of the Subcontractor that actually performs the Work, a fee of five percent of the amount (fee plus underlying costs incurred) attributable to the next lower tier Subcontractor; provided, however, that for any such subcontracted work the maximum total fee to be paid by Owner shall be no greater than 27 percent of the costs incurred by the Subcontractor that actually performs the work;
 - d. no fee shall be payable on the basis of costs itemized under Paragraphs 13.01.B.4, 13.01.B.5, and 13.01.C;
 - e. the amount of credit to be allowed by Contractor to Owner for any change which results in a net decrease in cost will be the amount of the actual net decrease in cost plus a deduction in Contractor's fee by an amount equal to five percent of such net decrease; and
 - f. when both additions and credits are involved in any one change, the adjustment in Contractor's fee shall be computed on the basis of the net change in accordance with Paragraphs 11.04.C.2.a through 11.04.C.2.e, inclusive.

11.05 *Change of Contract Times*

- A. The Contract Times may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Times shall comply with the provisions of Paragraph 11.06. Any Claim for an adjustment in the Contract Times shall comply with the provisions of Article 12.
- B. An adjustment of the Contract Times shall be subject to the limitations set forth in Paragraph 4.05, concerning delays in Contractor's progress.

11.06 *Change Proposals*

- A. Contractor shall submit a Change Proposal to Engineer to request an adjustment in the Contract Times or Contract Price; appeal an initial decision by Engineer concerning the requirements of the Contract Documents or relating to the acceptability of the Work under the Contract Documents; contest a set-off against payment due; or seek other relief under the Contract. The Change Proposal shall specify any proposed change in Contract Times or Contract Price, or both, or other proposed relief, and explain the reason for the proposed change, with citations to any governing or applicable provisions of the Contract Documents.
1. *Procedures:* Contractor shall submit each Change Proposal to Engineer promptly (but in no event later than 10 days) after the start of the event giving rise thereto, or after such initial decision. The Contractor's obligation to deliver a fully completed Change Proposal within such 10-day period is a material term of the Contract Documents and provides the Owner with the opportunity to mitigate its damages. Failure to provide a written Change Proposal within the time period specified herein shall constitute a waiver by the Contractor of its rights to an adjustment to the Contract Time or Contract Price for the Work that is the subject matter of the Change Proposal. The Contractor shall submit supporting data, including the proposed change in Contract Price or Contract Time (if any), to the Engineer and Owner within 10 days after the submittal of the Change Proposal. The supporting data shall be accompanied by a written statement that the supporting data are accurate and complete, and that any requested time or price adjustment is the entire adjustment to which Contractor believes it is entitled as a result of said event. Engineer will advise Owner regarding the Change Proposal, and consider any comments or response from Owner regarding the Change Proposal.
 2. *Engineer's Action:* Engineer will review each Change Proposal and, within 30 days after receipt of the Contractor's supporting data, either deny the Change Proposal in whole, approve it in whole, or deny it in part and approve it in part. Such actions shall be in writing, with a copy provided to Owner and Contractor. If Engineer does not take action on the Change Proposal within 30 days, then the Change Proposal is deemed denied, thereby commencing the time for appeal of the denial under Article 12.
 3. *Binding Decision:* Engineer's decision will be final and binding upon Owner and Contractor, unless Owner or Contractor appeals the decision by filing a Claim under Article 12.
- B. *Resolution of Certain Change Proposals:* If the Change Proposal does not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters, then Engineer will notify the parties that the Engineer is unable to resolve the Change Proposal. For purposes of further resolution of such a Change Proposal, such notice shall be deemed a denial, and Contractor may choose to seek resolution under the terms of Article 12.

11.07 *Execution of Change Orders*

- A. Owner and Contractor shall execute appropriate Change Orders covering:
1. changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive;

2. changes in Contract Price resulting from an Owner set-off, unless Contractor has duly contested such set-off;
 3. changes in the Work which are: (a) ordered by Owner pursuant to Paragraph 11.02, (b) required because of Owner's acceptance of defective Work under Paragraph 14.04 or Owner's correction of defective Work under Paragraph 14.07, or (c) agreed to by the parties, subject to the need for Engineer's recommendation if the change in the Work involves the design (as set forth in the Drawings, Specifications, or otherwise), or other engineering or technical matters; and
 4. changes in the Contract Price or Contract Times, or other changes, which embody the substance of any final and binding results under Paragraph 11.06, or Article 12.
- B. If Owner or Contractor refuses to execute a Change Order that is required to be executed under the terms of this Paragraph 11.07, it shall be deemed to be of full force and effect, as if fully executed.

11.08 *Notification to Surety*

- A. If the provisions of any bond require notice to be given to a surety of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times), the giving of any such notice will be Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change and the surety shall be obligated, with respect to any change, regardless of any failure to provide notice to the surety of any such change.

ARTICLE 12 – CLAIMS

12.01 *Claims*

- A. *Claims Process:* The following disputes between Owner and Contractor shall be submitted to the Claims process set forth in this Article:
1. Appeals by Owner or Contractor of Engineer's decisions regarding Change Proposals;
 2. Owner demands for adjustments in the Contract Price or Contract Times, or other relief under the Contract Documents; and
 3. Disputes that Engineer has been unable to address because they do not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters.
- B. *Submittal of Claim:* The Contractor shall deliver its claim directly to the Owner promptly (but in no event later than 10 days) after the start of the event giving rise thereto; in the case of appeals regarding Change Proposals within 10 days of the decision under appeal. The Contractor shall also furnish a copy to the Engineer, for its information only. The responsibility to substantiate a Claim shall rest with the party making the Claim. For each Claim the Contractor shall deliver a fully completed Statement of Claim Form, a copy of which form is a Contract Document, to the Engineer and the Owner. The Contractor's obligation to deliver a fully completed Statement of Claim within such 10-day period is a material term of the Contract Documents and provides the Owner with the opportunity to mitigate its damages.

Failure to provide written notice of a Claim as specified herein shall constitute a waiver by the Contractor of any Claim for adjustment to the Contract Time or Contract Price.

1. *False or Fraudulent Claim.* The Contractor shall not knowingly present or cause to be presented to the Owner a false or fraudulent Claim. Knowingly shall have the same meaning as in Section 3729(b) USC of the Federal False Claims Act. If the Contractor knowingly presents or causes to be presented a false or fraudulent Claim, then the Contractor shall be liable to the Owner for the same civil penalty and damages as the United States Government would be entitled to recover under such Section 3729(a) USC and shall also indemnify and hold the Owner harmless from all costs and expenses, including Owner's attorneys' and consultants' fees and expenses incurred in investigating and defending against such Claim and in pursuing the collection of such penalty, damages and fees and expenses.
2. *Claim Documentation:* Within ten (10) days of written request from the Owner, Contractor shall make available to Owner or its representative any books, records, or other documents in its possession or to which it has access, including but not limited to Contractor's daily logs/reports, original estimates of Work and applicable agreements, correspondence with subcontractors and suppliers, internal correspondence (including e-mail), accounting records, and other information from which the Contractor's costs may be derived. To the extent permitted by law, the Owner shall keep the Project accounting records and estimate for the Project confidential. As requested by the Owner, the Contractor shall provide such documents and information in paper copies and/or computer format (including the format of the Contractor's accounting software and/or ASCII format). The Contractor's provision of the requested documents and information shall be a condition precedent to any further proceeding under the Contract Documents or to payment of an Application for Payment

Failure to provide the requested documents shall be a material breach of the Contract, and Contractor shall indemnify Owner for all of Owner's costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to Contractor's failure to comply with this provision. If the Contractor fails to provide the requested documents, the Contractor shall be precluded from presenting such documents in any subsequent dispute resolution proceedings, if the data was reasonably available at the time of the request.

- C. *Review and Resolution:* The party receiving a Claim shall review it thoroughly, giving full consideration to its merits. The two parties shall seek to resolve the Claim through the exchange of information and direct negotiations. The parties may extend the time for resolving the Claim by mutual agreement. All actions taken on a Claim shall be stated in writing and submitted to the other party, with a copy to Engineer.
- D. *Mediation:*
 1. Any claim not resolved through direct negotiation of the parties, within 30 days of the date of the claim, shall be subject to mediation.
 2. Owner and Contractor shall each pay one-half of the mediator's fees and costs.
- E. Any Claim not resolved through mediation shall be subject to the procedure set forth in Article 17 for the final resolution of disputes.

- F. *Final and Binding Results*: If the parties reach a mutual agreement regarding a Claim, whether through approval of the Claim, direct negotiations, mediation, or otherwise; or if a Claim is approved in part and denied in part, or denied in full, and such actions become final and binding; then the results of the agreement or action on the Claim shall be incorporated in a Change Order to the extent they affect the Contract, including the Work, the Contract Times, or the Contract Price.
- G. In the event that Contractor files a Claim or files an action against Owner, Owner shall be entitled to make an offer of settlement of the Claim to Contractor at any time up to the date of trial. Such offer of settlement shall not be admissible into evidence at the litigation except on the issue of entitlement to recovery of attorneys' fees, costs, and expenses. If at any stage of the litigation, including any appeals, Contractor's claim is dismissed or found to be without merit, or if the damages awarded to Contractor on its claim do not exceed Owner's offer of settlement, Contractor shall be liable to Owner and shall reimburse Owner for all attorneys fees, costs and expenses incurred by Owner from the date of the offer of settlement until the date of the final adjudication and resolution of Contractor's claim.

ARTICLE 13 – COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

13.01 *Cost of the Work*

- A. *Purposes for Determination of Cost of the Work*: The term Cost of the Work means the sum of all costs necessary for the proper performance of the Work at issue, as further defined below. The provisions of this Paragraph 13.01 are used for two distinct purposes:
 - 1. To determine Cost of the Work when Cost of the Work is a component of the Contract Price, under cost-plus-fee, time-and-materials, or other cost-based terms; or
 - 2. To determine the value of a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price. When the value of any such adjustment is determined on the basis of Cost of the Work, Contractor is entitled only to those additional or incremental costs required because of the change in the Work or because of the event giving rise to the adjustment.
- B. *Costs Included*: Except as otherwise may be agreed to in writing by Owner, costs included in the Cost of the Work shall be in amounts no higher than those prevailing in the locality of the Project, shall not include any of the costs itemized in Paragraph 13.01.C, and shall include only the following items:
 - 1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by Owner and Contractor. Such employees shall include, without limitation, superintendents, foremen, and other personnel employed full time on the Work. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, and vacation and holiday pay applicable thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by Owner.

2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless Owner deposits funds with Contractor with which to make payments, in which case the cash discounts shall accrue to Owner. All trade discounts, rebates, and refunds and returns from sale of surplus materials and equipment shall accrue to Owner, and Contractor shall make provisions so that they may be obtained.
3. Payments made by Contractor to Subcontractors for Work performed by Subcontractors. If required by Owner, Contractor shall obtain competitive bids from subcontractors acceptable to Owner and Contractor and shall deliver such bids to Owner, who will then determine, with the advice of Engineer, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee shall be determined in the same manner as Contractor's Cost of the Work and fee as provided in this Paragraph 13.01.
4. Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed for services specifically related to the Work.
5. Supplemental costs including the following:
 - a. The proportion of necessary transportation, travel, and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.
 - b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of Contractor.
 - c. Rentals of all construction equipment and machinery, and the parts thereof, whether rented from Contractor or others in accordance with rental agreements approved by Owner with the advice of Engineer, and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs shall be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts shall cease when the use thereof is no longer necessary for the Work.
 - d. Sales, consumer, use, and other similar taxes related to the Work, and for which Contractor is liable, as imposed by Laws and Regulations.
 - e. Deposits lost for causes other than negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.
 - f. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance of the Work (except losses and damages within the deductible amounts of property insurance established in accordance with Paragraph 6.05), provided such losses and damages have resulted from causes other than the negligence of Contractor, any

Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses shall be included in the Cost of the Work for the purpose of determining Contractor's fee.

- g. The cost of utilities, fuel, and sanitary facilities at the Site.
 - h. Minor expenses such as communication service at the Site, express and courier services, and similar petty cash items in connection with the Work.
 - i. The costs of premiums for all bonds and insurance that Contractor is required by the Contract Documents to purchase and maintain.
- C. *Costs Excluded:* The term Cost of the Work shall not include any of the following items:
 - 1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, safety managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor, whether at the Site or in Contractor's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 13.01.B.1 or specifically covered by Paragraph 13.01.B.4. The payroll costs and other compensation excluded here are to be considered administrative costs covered by the Contractor's fee.
 - 2. Expenses of Contractor's principal and branch offices other than Contractor's office at the Site.
 - 3. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.
 - 4. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.
 - 5. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraph 13.01.B.
- D. *Contractor's Fee:* When the Work as a whole is performed on the basis of cost-plus, Contractor's fee shall be determined as set forth in the Agreement. When the value of any Work covered by a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price is determined on the basis of Cost of the Work, Contractor's fee shall be determined as set forth in Paragraph 11.04.C.
- E. *Documentation:* Whenever the Cost of the Work for any purpose is to be determined pursuant to this Article 13, Contractor will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in a form acceptable to Engineer an itemized cost breakdown together with supporting data.

13.02 Allowances

- A. It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner and Engineer.
- B. *Cash Allowances*: Contractor agrees that:
 - 1. the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and
 - 2. Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.
- C. *Contingency Allowance*: Contractor agrees that a contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.
- D. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

13.03 Unit Price Work

- A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement. Contractor shall not be paid for any Unit Price Work that represents an actual quantity greater than 10% of the estimated quantity, without a Change Order. The Contractor shall maintain such records as the Engineer may require to track the quantities of Unit Price Work.
- B. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Payments to Contractor for Unit Price Work will be based on actual quantities.
- C. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item.
- D. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). Engineer's written decision thereon will be final and binding (except as modified by Engineer to reflect changed factual conditions or more accurate data) upon Owner and Contractor, subject to the provisions of the following paragraph.
- E. Within 30 days of Engineer's written decision under the preceding paragraph, Contractor may submit a Change Proposal, or Owner may file a Claim, seeking an adjustment in the Contract Price if:

1. the quantity of any item of Unit Price Work performed by Contractor differs materially and significantly from the estimated quantity of such item indicated in the Agreement;
2. there is no corresponding adjustment with respect to any other item of Work; and
3. Contractor believes that it is entitled to an increase in Contract Price as a result of having incurred additional expense or Owner believes that Owner is entitled to a decrease in Contract Price, and the parties are unable to agree as to the amount of any such increase or decrease.

ARTICLE 14 – TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

14.01 *Access to Work*

- A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and authorities having jurisdiction will have access to the Site and the Work at reasonable times for their observation, inspection, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's safety procedures and programs so that they may comply therewith as applicable.

14.02 *Tests, Inspections, and Approvals*

- A. Contractor shall give Engineer timely notice of readiness of the Work (or specific parts thereof) for all required inspections and tests, and shall cooperate with inspection and testing personnel to facilitate required inspections and tests.
- B. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.
- C. Contractor shall be responsible for arranging, obtaining, and paying for all inspections and tests required:
 1. by the Contract Documents, unless the Contract Documents expressly allocate responsibility for a specific inspection or test to Owner;
 2. to attain Owner's and Engineer's acceptance of materials or equipment to be incorporated in the Work;
 3. by manufacturers of equipment furnished under the Contract Documents;
 4. for testing, adjusting, and balancing of mechanical, electrical, and other equipment to be incorporated into the Work; and
 5. for acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work.

Such inspections and tests shall be performed by independent inspectors, testing laboratories, or other qualified individuals or entities acceptable to Owner and Engineer.

- D. If the Contract Documents require the Work (or part thereof) to be approved by Owner, Engineer, or another designated individual or entity, then Contractor shall assume full responsibility for arranging and obtaining such approvals.
- E. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, Contractor shall, if requested by Engineer, uncover such Work for observation. Such uncovering shall be at Contractor's expense unless Contractor had given Engineer timely notice of Contractor's intention to cover the same and Engineer had not acted with reasonable promptness in response to such notice.

14.03 *Defective Work*

- A. *Contractor's Obligation:* It is Contractor's obligation to assure that the Work is not defective.
- B. *Engineer's Authority:* Engineer has the authority to determine whether Work is defective, and to reject defective Work.
- C. *Notice of Defects:* Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor.
- D. *Correction, or Removal and Replacement:* Promptly after receipt of written notice of defective Work, Contractor shall, at its own expense, correct all such defective Work, whether or not fabricated, installed, or completed, or, if Engineer has rejected the defective Work, remove it from the Project and replace it with Work that is not defective.
- E. *Preservation of Warranties:* When correcting defective Work, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.
- F. *Costs and Damages:* In addition to its correction, removal, and replacement obligations with respect to defective Work, Contractor shall pay all claims, costs, losses, and damages arising out of or relating to defective Work, including but not limited to legal fees, the cost of the inspection, testing, correction, removal, replacement, or reconstruction of such defective Work, fines levied against Owner by governmental authorities because the Work is defective, and the costs of repair or replacement of work of others resulting from defective Work. Prior to final payment, if Owner and Contractor are unable to agree as to the measure of such claims, costs, losses, and damages resulting from defective Work, then Owner may impose a reasonable set-off against payments due under Article 15.

14.04 *Acceptance of Defective Work*

- A. If, instead of requiring correction or removal and replacement of defective Work, Owner prefers to accept it, Owner may do so (subject, if such acceptance occurs prior to final payment, to Engineer's confirmation that such acceptance is in general accord with the design intent and applicable engineering principles, and will not endanger public safety). Contractor shall pay all claims, costs, losses, and damages attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness), and for the diminished value of the Work to the extent not otherwise paid by Contractor. If any such acceptance occurs prior to final payment, the necessary revisions in the Contract Documents with respect to the Work shall be incorporated in a Change Order. If the parties are unable to agree as to the decrease in the Contract Price, reflecting the diminished value of Work so accepted, then Owner may impose a reasonable set-off against payments

due under Article 15. If the acceptance of defective Work occurs after final payment, Contractor shall pay an appropriate amount to Owner.

14.05 *Uncovering Work*

- A. Engineer has the authority to require special inspection or testing of the Work, whether or not the Work is fabricated, installed, or completed.
- B. If any Work is covered contrary to the written request of Engineer, then Contractor shall, if requested by Engineer, uncover such Work for Engineer's observation, and then replace the covering, all at Contractor's expense.
- C. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, then Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, and provide all necessary labor, material, and equipment.
 - 1. If it is found that the uncovered Work is defective, Contractor shall be responsible for all claims, costs, losses, and damages arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and pending Contractor's full discharge of this responsibility the Owner shall be entitled to impose a reasonable set-off against payments due under Article 15. Contractor shall not be entitled to any contract extension or additional payment resulting from such defective work.
 - 2. If the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, then Contractor may submit a Change Proposal within 30 days of the determination that the Work is not defective.

14.06 *Owner May Stop the Work*

- A. If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, then Owner may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work shall not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

14.07 *Owner May Correct Defective Work*

- A. If Contractor fails within two business days (or such longer time as may be stated in the Notice) of a written notice from the Owner or Engineer to correct, or take reasonable steps to commence to correct, defective Work, or to remove and replace, or take responsible steps to commence to remove and replace rejected Work as required by Engineer, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any other provision of the Contract Documents, then Owner may, after seven days written notice to Contractor, correct or remedy any such deficiency. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor all the costs, losses, and damages (including but not limited to all fees and charges of

engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred or sustained by Owner in exercising the rights and remedies under this Paragraph. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner. The Contractor irrevocably designates the Owner as the Contractor's attorney-in-fact to execute the Change Orders provided for in this Paragraph.

- B. In exercising the rights and remedies under this Paragraph 14.07, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this paragraph.
- C. All claims, costs, losses, and damages incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 14.07 will be charged against Contractor as set-offs against payments due under Article 15. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.
- D. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 14.07.

ARTICLE 15 – PAYMENTS TO CONTRACTOR; SET-OFFS; COMPLETION; CORRECTION PERIOD

15.01 *Progress Payments*

- A. *Basis for Progress Payments:* The Schedule of Values established as provided in Article 2 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments on account of Unit Price Work will be based on the number of units completed during the pay period, as determined under the provisions of Paragraph 13.03. Progress payments for cost-based Work will be based on Cost of the Work completed by Contractor during the pay period. The Engineer-approved version of the Application for Payment form, which includes information on completed Schedule of Values items, is to be used by the Contractor when making an Application for Progress Payment.
- B. *Applications for Payments:*
 - 1. Not more often than once every 30 days, Contractor shall submit to Engineer for review an Application for Payment (including a Schedule of Values described in Paragraph 2.05.A of the Modified General Conditions) filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by a properly completed Contractor's Payment Application Checklist, all the documentation required to be submitted with such Checklist, and any other supporting documentation required by the Contract Documents or by the Engineer. The Application for Payment will be in the form and submitted with the number of copies of it and all related documents as required by the

Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that Owner has received the materials and equipment free and clear of all Liens, and evidence that the materials and equipment are covered by appropriate property insurance, a warehouse bond, or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.

2. Beginning with the second Application for Payment, each Application shall include a) a Waiver and Release Agreement for itself and a Subcontractors – Suppliers Waiver and Release Agreement for each of its subcontractors, and b) a Contractor's Affidavit with List of Subcontractors and Suppliers with Amounts Withheld.
3. The amount of retainage with respect to payments will be as stipulated in the Agreement. The Owner and the Contractor agree that there shall be no escrow account required in connection with the Project; nor, shall retainage earn interest.

C. *Review of Applications:*

1. Engineer will, within 10 days after receipt of each Application for Payment, including each resubmittal, either indicate in writing a recommendation of payment and present the Application to Owner, or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application.
2. Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations of the executed Work as an experienced and qualified design professional, and on Engineer's review of the Application for Payment and the accompanying data and schedules, that to the best of Engineer's knowledge, information and belief:
 - a. the Work has progressed to the point indicated;
 - b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, the results of any subsequent tests called for in the Contract Documents, a final determination of quantities and classifications for Unit Price Work under Paragraph 13.03, and any other qualifications stated in the recommendation); and
 - c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.
3. By recommending any such payment Engineer will not thereby be deemed to have represented that:
 - a. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract; or

- b. there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.
 - 4. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:
 - a. to supervise, direct, or control the Work, or
 - b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or
 - c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work, or
 - d. to make any examination to ascertain how or for what purposes Contractor has used the money paid on account of the Contract Price, or
 - e. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.
 - 5. Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 15.01.C.2.
 - 6. Engineer will recommend reductions in payment (set-offs) necessary in Engineer's opinion to protect Owner from loss because:
 - a. the Work is defective, requiring correction or replacement;
 - b. the Contract Price has been reduced by Change Orders;
 - c. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
 - d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible; or
 - e. Engineer has actual knowledge of the occurrence of any of the events that would constitute a default by Contractor and therefore justify termination for cause under the Contract Documents.
 - f. The Contractor is in default of any other Agreement it has with the Owner.
- D. *Payment Becomes Due:*
- 1. Ten days after presentation of the Application for Payment, the Payment Application Checklist, and all required documentation to Owner with Engineer's recommendation and the approval of any agencies and/or lenders, the amount recommended and approved will (subject to the provisions of Paragraph 14.02.D) become due, and when due will be paid by Owner to Contractor.

E. *Reductions in Payment by Owner.*

1. In addition to any reductions in payment (set-offs) recommended by Engineer, Owner is entitled to impose a set-off against payment based on any of the following:
 - a. claims have been made against Owner on account of Contractor's conduct in the performance or furnishing of the Work, or Owner has incurred costs, losses, or damages on account of Contractor's conduct in the performance or furnishing of the Work, including but not limited to claims, costs, losses, or damages from workplace injuries, adjacent property damage, non-compliance with Laws and Regulations, and patent infringement;
 - b. Contractor has failed to take reasonable and customary measures to avoid damage, delay, disruption, and interference with other work at or adjacent to the Site;
 - c. Contractor has failed to provide and maintain required bonds or insurance;
 - d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible;
 - e. Owner has incurred extra charges or engineering costs related to submittal reviews, evaluations of proposed substitutes, tests and inspections, or return visits to manufacturing or assembly facilities;
 - f. the Work is defective, requiring correction or replacement;
 - g. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
 - h. the Contract Price has been reduced by Change Orders;
 - i. an event that would constitute a default by Contractor and therefore justify a termination for cause has occurred;
 - j. liquidated damages have accrued as a result of Contractor's failure to achieve Milestones, Substantial Completion, or final completion of the Work;
 - k. Liens have been filed in connection with the Work;
 - l. there are other items entitling Owner to a set off against the amount recommended.
2. If Owner imposes any set-off against payment, whether based on its own knowledge or on the written recommendations of Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and the specific amount of the reduction, and promptly pay Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, if Contractor remedies the reasons for such action. The reduction imposed shall be binding on Contractor unless it duly submits a Change Proposal contesting the reduction.

15.02 *Contractor's Warranty of Title*

- A. Contractor warrants and guarantees that title to all Work, materials, and equipment furnished under the Contract will pass to Owner free and clear of (1) all Liens and

other title defects, and (2) all patent, licensing, copyright, or royalty obligations, no later than seven days after the time of payment by Owner.

15.03 *Substantial Completion*

- A. When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete and request that Engineer issue a certificate of Substantial Completion. Contractor shall at the same time submit to Owner and Engineer an initial draft of punch list items to be completed or corrected before final payment.
- B. Promptly after Contractor's notification, Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.
- C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a preliminary certificate of Substantial Completion which shall fix the date of Substantial Completion. Engineer shall attach to the certificate a punch list of items to be completed or corrected before final payment. Owner shall have seven days after receipt of the preliminary certificate during which to make written objection to Engineer as to any provisions of the certificate or attached punch list. If, after considering the objections to the provisions of the preliminary certificate, Engineer concludes that the Work is not substantially complete, Engineer will, within 14 days after submission of the preliminary certificate to Owner, notify Contractor in writing that the Work is not substantially complete, stating the reasons therefor. If Owner does not object to the provisions of the certificate, or if despite consideration of Owner's objections Engineer concludes that the Work is substantially complete, then Engineer will, within said 14 days, execute and deliver to Owner and Contractor a final certificate of Substantial Completion (with a revised punch list of items to be completed or corrected) reflecting such changes from the preliminary certificate as Engineer believes justified after consideration of any objections from Owner.
- D. At the time of receipt of the preliminary certificate of Substantial Completion, Owner and Contractor will confer regarding Owner's use or occupancy of the Work following Substantial Completion, review the builder's risk insurance policy with respect to the end of the builder's risk coverage, and confirm the transition to coverage of the Work under a permanent property insurance policy held by Owner. Unless Owner and Contractor agree otherwise in writing, Owner shall bear responsibility for security, operation, protection of the Work, property insurance, maintenance, heat, and utilities upon Owner's use or occupancy of the Work.
- E. After Substantial Completion the Contractor shall promptly begin work on the punch list of items to be completed or corrected prior to final payment. In appropriate cases Contractor may submit monthly Applications for Payment for completed punch list items, following the progress payment procedures set forth above.
- F. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to remove its property and complete or correct items on the punch list.
- G. Time for Completion of Items on Tentative List and Remedies. The time fixed by the Engineer for the completion of all items on the list accompanying the tentative certificate of Substantial Completion shall not be greater than forty-five (45). The Contractor shall complete all items on the list within such 45-day period. If the Contractor fails to do so, the Owner in its discretion may perform the Work by itself or

others and the cost thereof shall be charged to the Contractor. The Contractor irrevocably designates the Owner as the Contractor's attorney-in-fact to execute a Change Order deducting such cost from the balance of the Contract Price and also any additional costs or expenses incurred by the Owner arising out of or related to the failure of the Contractor to complete such items, including but not limited to attorneys', consultants', and Engineer's fees. The Contractor's warranties under the Contract Documents shall remain in full force and effect and cover any remedial Work, even if performed by others. If more than one inspection by the Engineer for purposes of evaluating corrected Work is required, it will be performed at the Contractor's expense.

15.04 *Partial Use or Occupancy*

- A. Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions:
 - 1. At any time Owner may request in writing that Contractor permit Owner to use or occupy any such part of the Work that Owner believes to be substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor, Owner, and Engineer will follow the procedures of Paragraph 15.03.A through E for that part of the Work.
 - 2. At any time Contractor may notify Owner and Engineer in writing that Contractor considers any such part of the Work substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.
 - 3. Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of Paragraph 15.03 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.
 - 4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 6.05 regarding builder's risk or other property insurance.
- B. Owner may at any time request Contractor in writing to permit Owner to take over operation of any part of the Work although it is not substantially complete. A copy of such request will be sent to Engineer, and within a reasonable time thereafter, Owner, Contractor, and Engineer shall inspect that part of the Work to determine its status of completion and will prepare a list of the items remaining to be completed or corrected thereon before final payment. If Contractor does not object in writing to Owner and Engineer that such part of the Work is not ready for separate operation by Owner, Engineer will finalize the list of items to be completed or corrected and will deliver such lists to Owner and Contractor together with a written recommendation as to the division of responsibilities pending final payment between Owner and Contractor with respect to security, operation, safety, maintenance, utilities, insurance, warranties, and guarantees for that part of the Work which will become binding upon Owner and

Contractor at the time when Owner takes over such operation (unless they shall have otherwise agreed in writing and so informed Engineer). During such operation and prior to Substantial Completion of such part of the Work, Owner shall allow Contractor reasonable access to complete or correct items on said list and to complete other related Work.

15.05 *Final Inspection*

- A. Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals that the Work, or agreed portion thereof, is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

15.06 *Final Payment*

A. *Application for Payment:*

- 1. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, annotated record documents (as provided in Paragraph 7.11), and other documents, Contractor may make application for final payment.
- 2. The final Application for Payment shall be accompanied (except as previously delivered) by:
 - a. all documentation called for in the Contract Documents;
 - b. consent of the surety, if any, to final payment;
 - c. satisfactory evidence that all title issues have been resolved such that title to all Work, materials, and equipment has passed to Owner free and clear of any Liens or other title defects, or will so pass upon final payment; and
 - d. a list of all disputes that Contractor believes are unsettled;
- 3. Contractor's Waiver and Release Agreement for itself as of the date of the Final Application for Payment and Subcontractors – Suppliers Waiver and Release Agreements for each of its Subcontractors and Suppliers as of the date of the Final Application for Payment. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any Lien, or Owner at its option may issue joint checks payable to Contractor and specified Subcontractors and Suppliers.

B. *Engineer's Review of Application and Acceptance:*

- 1. If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations under the Contract have been fulfilled, Engineer will, within ten days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of final payment and present the Application for Payment to Owner for payment. Such recommendation shall account for any set-offs against

payment that are necessary in Engineer's opinion to protect Owner from loss for the reasons stated above with respect to progress payments. At the same time Engineer will also give written notice to Owner and Contractor that the Work is acceptable, subject to the provisions of Paragraph 15.07. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment.

- C. *Completion of Work:* The Work is complete (subject to surviving obligations) when it is ready for final payment as established by the Engineer's written recommendation of final payment.
- D. *Payment Becomes Due:* Thirty days after the presentation to Owner of the final Application for Payment and accompanying documentation, the amount recommended by Engineer (less any further sum Owner is entitled to set off against Engineer's recommendation, including but not limited to set-offs for liquidated damages and set-offs allowed under the provisions above with respect to progress payments) will become due and shall be paid by Owner to Contractor.

15.07 *Waiver of Claims*

- A. The making of final payment will not constitute a waiver by Owner of claims or rights against Contractor. Owner expressly reserves claims and rights arising from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 15.05, from Contractor's failure to comply with the Contract Documents or the terms of any special guarantees specified therein, from outstanding Claims by Owner, or from Contractor's continuing obligations under the Contract Documents.
- B. The acceptance of final payment by Contractor will constitute a waiver by Contractor of all claims and rights against Owner other than those pending matters that have been duly submitted or appealed under the provisions of Article 17.

15.08 *Correction Period*

- A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents, or by any specific provision of the Contract Documents), any Work is found to be defective, or if the repair of any damages to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas used by Contractor as permitted by Laws and Regulations, is found to be defective, then Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:
 - 1. correct the defective repairs to the Site or such other adjacent areas;
 - 2. correct such defective Work;
 - 3. if the defective Work has been rejected by Owner, remove it from the Project and replace it with Work that is not defective, and
 - 4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others, or to other land or areas resulting therefrom.
- B. If Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys,

and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others).

- C. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications.
- D. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this paragraph, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.
- E. Contractor's obligations under this paragraph are in addition to all other obligations and warranties. The provisions of this paragraph shall not be construed as a substitute for, or a waiver of, the provisions of any applicable statute of limitation or repose.

ARTICLE 16 – SUSPENSION OF WORK AND TERMINATION

16.01 *Owner May Suspend Work*

- A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by written notice to Contractor and Engineer. Such notice will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be entitled to an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension. Any Change Proposal seeking such adjustments shall be submitted no later than 30 days after the date fixed for resumption of Work.

16.02 *Owner May Terminate for Cause*

- A. The occurrence of any one or more of the following events will constitute a default by Contractor and justify termination for cause:
 - 1. Contractor's failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the Progress Schedule);
 - 2. Failure of Contractor to perform or otherwise to comply with a material term of the Contract Documents;
 - 3. Contractor's disregard of Laws or Regulations of any public body having jurisdiction; or
 - 4. Contractor's repeated disregard of the authority of Owner or Engineer.
- B. If one or more of the events identified in Paragraph 16.02.A occurs, then after giving Contractor (and any surety) 3 days written notice that Owner is considering a declaration that Contractor is in default and termination of the contract, Owner may proceed to:
 - 1. declare Contractor to be in default, and give Contractor (and any surety) notice that the Contract is terminated. Such termination shall be effective as of the date stated in the termination notice provided to Contractor; and

2. enforce the rights available to Owner under any applicable performance bond.
- C. If Owner has terminated the Contract for cause, Owner may exclude Contractor from the Site, take possession of the Work, incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and complete the Work as Owner may deem expedient.
- D. Owner may not proceed with termination of the Contract under Paragraph 16.02.B if Contractor within seven days of receipt of notice of intent to terminate begins to correct its failure to perform and proceeds diligently to cure such failure.
- E. If Owner proceeds as provided in Paragraph 16.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds the cost to complete the Work, including all related claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals) sustained by Owner, such excess will be paid to Contractor. If the cost to complete the Work including such related claims, costs, losses, and damages exceeds such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this paragraph, Owner shall not be required to obtain the lowest price for the Work performed.
- F. Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue, or any rights or remedies of Owner against Contractor or any surety under any payment bond or performance bond. Any retention or payment of money due Contractor by Owner will not release Contractor from liability.
- G. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 6.01.A, the provisions of that bond shall govern over any inconsistent provisions of Paragraphs 16.02.B and 16.02.D.

16.03 *Owner May Terminate For Convenience*

- A. Upon three days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items). Such termination shall be effective as of the date stated in the written notice:
 1. completed and acceptable Work as defined in the Contract Documents executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
 2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses; and
 3. other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.
- B. Contractor shall not be paid on account of loss of anticipated overhead, profits, or revenue, or other economic loss arising out of or resulting from such termination.

16.04 *Contractor May Stop Work or Terminate*

- A. If, through no act or fault of Contractor, (1) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (2) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (3) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the contract and recover from Owner payment on the same terms as provided in Paragraph 16.03.
- B. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, seven days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this paragraph are not intended to preclude Contractor from submitting a Change Proposal for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this paragraph.
- C. Contractor shall require similar provisions contained in this Article 16 in each of its subcontracts to protect Contractor from claims by Subcontractors arising from the Owner's termination for convenience, or to minimize claims by such subcontractors. The remedy provided to Contractor under this Paragraph shall be the Contractor's sole remedy in the event of termination for convenience by Owner.

ARTICLE 17 – FINAL RESOLUTION OF DISPUTES

17.01 *Methods and Procedures*

- A. Any Claim not resolved by mediation or within 60 days of the date of the Claim shall be subject to litigation. Any lawsuit which may be brought to enforce any provision of this Contract or any remedy with respect thereto, shall be brought in a state court of competent jurisdiction in the county in which the Owner is located and each party expressly consents to the jurisdiction of such court. Each party expressly waives its right to remove any such suit to federal court.

ARTICLE 18 – MISCELLANEOUS

18.01 *Giving Notice*

- A. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if:
 - 1. delivered in person, by a commercial courier service or otherwise, to the individual or to a member of the firm or to an officer of the corporation for which it is intended; or
 - 2. delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the sender of the notice.

18.02 *Computation of Times*

- A. When any period of time is referred to in the Contract by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such

period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

18.03 *Cumulative Remedies*

- A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract. The provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

18.04 *Limitation of Damages*

- A. With respect to any and all Change Proposals, Claims, disputes subject to final resolution, and other matters at issue, neither Owner nor Engineer, nor any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, shall be liable to Contractor for any claims, costs, losses, or damages sustained by Contractor on or in connection with any other project or anticipated project.
- B. The Contractor waives Claims against the Owner for consequential damages arising out of or relating to this Contract. This waiver includes but is not limited to:
 - 1. damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, loss of bonding capacity and for loss of profit except anticipated profit arising directly from the Work.
- C. The waiver in Paragraph 18.04(B) is applicable, without limitation, to all consequential damages due to either party's termination in accordance with the terms of the Contract. Nothing contained in this Paragraph 18.04 shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

18.05 *No Waiver*

- A. The Owner's non-enforcement of any provision shall not constitute a waiver of that provision, nor shall it affect the enforceability of that provision or of the remainder of this Contract.

18.06 *Survival of Obligations*

- A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract, as well as all continuing obligations indicated in the Contract, will survive final payment, completion, and acceptance of the Work or termination or completion of the Contract or termination of the services of Contractor.

18.07 *Controlling Law*

- A. This Contract is to be governed by the law of the state in which the Project is located.

18.08 *Headings*

- A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

**STATE OF OHIO BUREAU OF WORKER'S COMPENSATION INSURANCE
CERTIFICATE ATTACHMENT SHEET**



**Bureau of Workers'
Compensation**

30 W. Spring St.
Columbus, OH 43215

Certificate of Ohio Workers' Compensation

This certifies that the employer listed below participates in the Ohio State Insurance Fund as required by law. Therefore, the employer is entitled to the rights and benefits of the fund for the period specified. This certificate is only valid if premiums and assessments, including installments, are paid by the applicable due date. To verify coverage, visit www.bwc.ohio.gov, or call 1-800-644-6292.

This certificate must be conspicuously posted.

Policy number and employer
00294130

STRAWSER PAVING CO INC
1595 FRANK RD
COLUMBUS OH 43223-3737

Period Specified Below
07/01/2023 to 07/01/2024

www.bwc.ohio.gov
Issued by: BWC



Administrator/CEO

You can reproduce this certificate as needed.

Ohio Bureau of Workers' Compensation

Required Posting

Section 4123.54 of the Ohio Revised Code requires notice of rebuttable presumption. Rebuttable presumption means an employee may dispute or prove untrue the presumption (or belief) that alcohol, marijuana or a controlled substance not prescribed by the employee's physician is the proximate cause (main reason) of the work-related injury.

The burden of proof is on the employee to prove the presence of alcohol, marijuana or a controlled substance was not the proximate cause of the work-related injury. An employee who tests positive or refuses to submit to chemical testing may be disqualified for compensation and benefits under the Workers' Compensation Act.



**Bureau of Workers'
Compensation**

You must post this language with the Certificate of Ohio Workers' Compensation.

INSURANCE CERTIFICATE ATTACHMENT SHEET



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/05/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Kernan Insurance Agency, Inc. 32 Brewster Lane Columbus OH 43065		CONTACT NAME: Batchelder, Laura M. PHONE (A/C, No, Ext): (614)764-0121 E-MAIL ADDRESS: certificates@kernaninsurance.com FAX (A/C, No): (614)764-0310	
INSURED Strawser Paving Co., Inc. 1595 Frank Road Columbus OH 43223		INSURER(S) AFFORDING COVERAGE INSURER A: Erie Ins Exch INSURER B: CNA INSURER C: INSURER D: INSURER E: INSURER F:	
		NAIC # 26271 000000	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	Y	N	Q48-0152061	12/01/2023	12/01/2024	EACH OCCURRENCE \$ 1000000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1000000 MED EXP (Any one person) \$ 10000 PERSONAL & ADV INJURY \$ 1000000 GENERAL AGGREGATE \$ 2000000 PRODUCTS - COMP/OP AGG \$ 2000000
	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	N	N	Q12-5140039	12/01/2023	12/01/2024	COMBINED SINGLE LIMIT (Ea accident) \$ 1000000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ 1000000
	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$	N	N	Q36-0170674	12/01/2023	12/01/2024	EACH OCCURRENCE \$ 10000000 AGGREGATE \$
	<input type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	N	Q48-0152061	12/01/2023	12/01/2024	PER STATUTE OTH-ER *Ohio Stop Gap Only E.I. EACH ACCIDENT \$ 1,000,000 E.I. DISEASE - EA EMPLOYEE \$ 1,000,000 E.I. DISEASE - POLICY LIMIT \$ 1,000,000
	Contractors Equipment	N	N	C 6075630001	12/01/2022	12/01/2023	Blanket Limit 17,573,480 Limit Per Item \$1,000,000 Deductible 1,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate Holder is additional insured as respects general liability for any and all work performed during policy term.

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

James A. Kernan

X: Email:

ACORD 25 (2016/03)

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NOTICE TO PROCEED

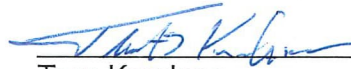
To: Strawser Paving Company

Date: May 6, 2024

Project: Taylor Station Road-Claycraft Road Roundabout, ST-1087

Owner: City of Gahanna
200 South Hamilton Road
Gahanna, Ohio 43230

You are hereby notified to commence Work in accordance with the Agreement dated March 22, 2024 , and you are to complete the Work in the time required by Section 3.2 of the Owner/Contractor Agreement and other Contract Documents. Within ten (10) days from this Notice to Proceed date, you will begin physical, on-site improvements. You are required to return an acknowledged copy of this Notice to Proceed, to the Owner, indicating Acceptance of this Notice to Proceed.



Tom Komlanc
Director of Engineering

ACCEPTANCE OF NOTICE TO PROCEED

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by _____, this the day of _____, 2024.

By: _____

Title: _____

NOTICE OF COMMENCEMENT OF PUBLIC IMPROVEMENT

Section 1311.252, Ohio Revised Code

Notice is hereby given of the commencement of a public improvement as follows:

1. The public improvement is identified as:

Project Name: Taylor Station Road-Claycraft Road Roundabout ST-1087
Project Location: The City of Gahanna, Ohio

2. The public authority and Owner responsible for the public improvement is:

City of Gahanna
200 S Hamilton Rd
Gahanna, OH 43230

3. The principal contractor and its surety on the public improvement are as follows:

Principal Contractor: Strawser Paving Company
Surety: Fidelity and Deposit Company of Maryland

4. The date the City of Gahanna first executed a contract with a principal contractor for this public improvement is: April 1, 2024

5. The name and address of the representative for the City of Gahanna upon whom service may be made for the purposes of serving an affidavit pursuant to Section 1311.26 of the Ohio Revised Code is:

Tom Komlanc
Director of Engineering
City of Gahanna
200 S Hamilton Rd
Gahanna, OH 43230

The foregoing is true and accurate to the best of my knowledge and the information available to me.

Thomas Komlanc
Signature

DIRECTOR OF ENGINEERING
Title

Thomas Komlanc
Printed Name

Sworn and subscribed before me this 22nd day of April, 2024.



GINA K SHEPPARD
Notary Public
State of Ohio
My Comm. Expires
July 8, 2025

Gina K Sheppard
Notary Public

NOTICE OF AWARD TO SURETY AND SURETY'S AGENT

Date:

SENT BY REGULAR U.S. MAIL

Surety Company:
Fidelity and Deposit Company of Maryland
1299 Zurich Way
Schaumburg, IL 50196-1056


Surety Agent:
Kernan Insurance Agency, Inc.
9932 Brewster Lane
Powell, OH 43065

Re: Notice of Award of Contract

To Whom It May Concern:

You are notified that your principal, Strawser Paving Company, has been awarded a contract for the Taylor Station Road-Claycraft Road Roundabout, ST-1087 in the amount of \$2,290,898.50, by the City of Gahanna.

Thank you,

By: 
Angela Roth
Engineering Program Technician

CHANGE ORDER

Order No: _____

Date: _____

Agreement Date: _____

Name of PROJECT: **Taylor Station Road-Claycraft Road Roundabout, ST-1087**

OWNER: **City of Gahanna, Ohio**

CONTRACTOR: **Strawser Paving Company**

The following changes are hereby made to the CONTRACT DOCUMENTS:

Justification: _____

Change to CONTRACT PRICE: \$_____

Original CONTRACT PRICE: \$_____

Current CONTRACT PRICE adjusted by previous
CHANGE ORDER \$_____

The CONTRACT PRICE due to this CHANGE ORDER will be (increased)
(decreased) by : \$_____

The CONTRACT PRICE amount INCLUDING this CHANGE ORDER: \$_____

Change to CONTRACT TIME:

The CONTRACT TIME will be (increased) (decreased) by _____
calendar days.

The date for completion of all WORK will be _____(Date)

CONTRACTOR AGREES THAT THIS CHANGE ORDER SHALL CONSTITUTE A FINAL SETTLEMENT OF ALL MATTERS RELATING TO THE CHANGE IN THE WORK THAT IS THE SUBJECT OF THIS CHANGE ORDER, INCLUDING, BUT NOT LIMITED TO, ALL DIRECT, INDIRECT, AND CUMULATIVE COSTS ASSOCIATED WITH SUCH CHANGE AND ALL ADJUSTMENTS TO THE CONTRACT SUM AND THE DATE FOR SUBSTANTIAL COMPLETION.

Contractor's Signature: _____

Owner: _____

Project Administrator: _____

PAYROLL INFORMATION

Date _____

I, _____ (Name of Signatory Party), _____
(Title), do hereby certify:

1. That I pay or supervise the payment of the persons employed
by _____ (Contractor) on the _____ (Project).

2. That during the payroll period commencing on the _____ day of
_____, 2024, and ending on the _____ day of _____,
2024, all persons employed on said project have been paid in full weekly wages earned; that
no rebates have been or will be made either directly or indirectly to or on behalf of said
_____(Contractor) from the full weekly wages earned by such
persons; and that no deductions have been made either directly or indirectly from the wages
earned by such persons, other than permissible deductions which are described below:

3. That any payrolls otherwise under this Contract required for the above period are correct
and complete; that the wage rates for laborers or mechanics contained therein are not less
than the applicable wage rates contained in the specifications as supplied by the Department
of Industrial Relations or any wage determination incorporated into the Contract and that the
classifications set forth therein for each laborer or mechanic conform with the work he
performed.

4. That any apprentices employed in the above period are duly registered in a bona fide
apprenticeship program registered with the Ohio Apprenticeship Council.

5. That:

(a) Where fringe benefits are paid to approved plans, funds, or programs, in addition
to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced
payroll, payments of fringe benefits listed in the Contract have been or will be made to
appropriate programs for the benefit of such employees, except as noted in Section 5(c)
below; and

(b) Where fringe benefits are paid in cash, each laborer or mechanic listed in the above
referenced payroll has been paid as indicated on the payroll, and amount not less than the
sum of the applicable basic hourly wage rate plus the amount of the required fringe benefits
as listed in the Contract, except as noted in Section 5(c) below:

(c) Exceptions:

Exception (Craft)

Explanation

Remarks

Name and Title _____,

Signature

The willful falsification of any of the above statements may subject the Contractor or Subcontractor to fines as described in Section 4115.99 of the Ohio Revised Code.

FINAL PAYROLL AFFIDAVIT

I, _____ (Name of person signing affidavit),
_____ (title),
of the _____, do hereby certify that the
wages paid to all employees for the full number of hours worked in connection with the
Contract to the Improvement, Repair and Construction of: **Taylor Station Road-Claycraft
Road Roundabout, ST-1087** (Project) during the following period from
_____ to _____ is in accordance with the prevailing wages
prescribed by the Contract Documents. I further certify that no rebates or deductions for any
wages due any person have been directly or indirectly made other than those provided by
law.

(Signature of Officer or Agent)

Sworn to and subscribed in my presence this _____ day of
_____, 2024.

Notary Public

The above affidavit must be executed and sworn to by the officer or agent or the Contractor or Subcontractor who supervised the payment of employees, before the Owner will release the surety and/or make final payment due under the terms of the Contract.

CONTRACTOR'S PAYMENT APPLICATION CHECKLIST

THE CONTRACTOR MUST COMPLETE THIS CHECKLIST AND SUBMIT IT TO THE DESIGN PROFESSIONAL WITH ITS PAYMENT APPLICATION AND ALL REQUIRED DOCUMENTATION.

1. Contractor's Name: _____
2. Name, title, and telephone and fax numbers of Contractor's representative to contact regarding the Payment Application and required documentation:
Name: _____ Title: _____
Office Telephone No.: (____) _____ FAX No.: (____) _____
3. Payment Application Number and Date:
No. _____ Date: _____, 2024
4. The following is a list of required documentation that must accompany its Payment Application. The Contractor certifies that it has submitted the documentation listed below with its Payment Application. If the Contractor cannot do so, the Contractor should explain why in Paragraph 5. Such explanations shall not excuse the Contractor from the requirements for submitting this documentation.
 - _____ .1 Two (2) copies of a properly completed and executed Application for Payment with a properly completed and executed Schedule of Values attached to each;
 - _____ .2 Properly Completed Contractor's Affidavit with List of Subcontractors and Suppliers and Any Amounts Withheld;
 - _____ .3 Contractor's Waiver and Release Agreement (beginning with the second Application for Payment);
 - _____ .4 For each of its Subcontractors and Suppliers, a Subcontractor's – Supplier's Waiver and Release Agreement (beginning with the second Application for Payment);
 - _____ .5 Schedule of all materials and equipment stored on-site;
 - _____ .6 For materials and equipment stored off-site:
 - _____ A list of the materials and equipment consigned and stored off-site in connection with the Project (which shall be clearly identified), giving the place of storage, together with copies of invoices and reasons why the materials and equipment cannot be delivered to the site;
 - _____ Certification that all items have been tagged for delivery to the Project and that they will not be used for any other purpose;
 - _____ A letter from the Contractor's surety bonding company indicating agreement to the arrangements and that

payment to the Contractor shall not relieve either party of its responsibility to complete the facility;

_____ Evidence of adequate insurance covering the material and equipment in storage, which shall name the Owner as additional insured;

_____ Evidence that the Design Professional has visited the Contractor's place of storage and found that all the materials and equipment set forth in the payment request and represented to be stored off-site are stored at the place of storage (any costs incurred by the Design Professional to inspect material and equipment in off-site storage shall be paid by the Contractor); and

_____ Itemization of the materials and equipment and their cost, which were approved on previous Pay Applications and which remain in off-site storage.

_____ .7 Other documentation or information required by the Contract Documents or by the Design Professional or Owner.

5. Reason why required documentation is not submitted:

NOTE: The failure to submit required documentation, regardless of the reason, may result in non- payment, partial payment, and/or late payment.

Signature

Printed Name

Date

PROJECT ADMINISTRATOR REVIEW

_____ Checklist and documentation complete.

_____ Checklist and documentation incomplete.

Signature

Printed Name

Date

**CONTRACTOR'S AFFIDAVIT WITH LIST OF SUBCONTRACTORS AND SUPPLIERS
WITH ANY AMOUNTS WITHHELD**

PROJECT:
Taylor Station Road-Claycraft
Road Roundabout, ST-1087

CONTRACTOR:
Strawser Paving Company

STATE OF _____ :
 : SS,
COUNTY OF _____ :

The undersigned after first being sworn swears that a) all previous progress payments received on account of the Work have been applied on account to discharge Contractor's legitimate obligations associated with prior Applications for Payment, b) the Contractor has submitted Subcontractor(s) – Supplier(s) Waiver and Release Agreements for each of its Subcontractors and Suppliers using the form set forth in the Project Manual or as requested by the Design Professional, c) set forth below is a complete list of its Subcontractors and Suppliers, and d) set forth below is a complete description of all amounts withheld from any Subcontractor or Supplier and the reason why. Attach additional sheets if necessary. Contractor certifies that it has self-performed work amounting to not less than 50% of the total contract sum.

Typed or Printed Name of Subcontractor or Supplier	Address of Subcontractor or Supplier	Telephone Number of Subcontractor or Supplier

WITHHOLDINGS FROM SUBCONTRACTORS AND/OR SUPPLIERS:

Typed or Printed Name of Subcontractor or Supplier	Amount Withheld	Reason for Withholding

CONTRACTOR: [insert name]

BY: _____
(Signature of authorized representative)

NOTARY PUBLIC

Subscribed and sworn to before me on this date by _____ on behalf of
_____.

Signature of Notary Public

Notary Public: _____

My Commission Expires: _____

CONTRACTOR'S WAIVER & RELEASE AGREEMENT

("AGREEMENT")

Project: Taylor Station Road-Claycraft Road Roundabout, ST-1087

The undersigned hereby acknowledges receipt of payment from the Owner for all Work on the Project through the date of its prior Application for Payment. The undersigned acknowledges and agrees that the terms in this Agreement shall have the same meaning as in the Contract Documents for the Project.

In return for said payment, and/or pursuant to certain contractual obligations of the undersigned, the undersigned hereby waives and releases any rights it has or may have through the date of its last Application for Payment to any and all Claims and liens related to the Project, including without limitation: Claims of payment, mechanic's liens, liens against funds, surety bond Claims, and Claims for breach of contract or unjust enrichment. The sole exception to this waiver and release is for any Claims the undersigned has made by properly and timely submitting a Statement of Claim form. The undersigned acknowledges and agrees that this waiver and release is intended to be a comprehensive release of all Claims and liens related to the Project, including without limitation all Claims against the Owner, the Design Professional, any Construction Manager, and the employees, board members, agents and representatives of any of the foregoing persons. The undersigned further certifies that this Agreement covers Claims and liens by all persons with which it did business related to the Project, including without limitation subcontractors and suppliers, through the date of its last Application for Payment. The undersigned represents that all such persons have signed an agreement in the form of this Agreement releasing any and all Claims and liens related to the Project, except for any Claims made by properly and timely submitting a Statement of Claim form, a copy of which has been delivered to the Design Professional and the Owner. The undersigned hereby represents and warrants that it has paid any and all welfare, pension, vacation or other contributions required to be paid on account of the employment by the undersigned of any laborers on the Project.

This Agreement is for the benefit of, and may be relied upon by the Owner, Design Professional and any Construction Manager. The undersigned hereby agrees to indemnify, defend and hold harmless each of the foregoing, the Project, work or improvement, and real property from any and all Claims, or liens that are or should have been released in accordance with this Agreement.

Company Name

Authorized Signature (Company Officer)

Title

Date

State of: _____ County of _____

Subscribed and sworn to before me this _____ day of _____, 2024.

Notary Public: _____

My Commission Expires: _____

SUBCONTRACTOR'S/SUPPLIER'S WAIVER & RELEASE AGREEMENT
(“AGREEMENT”)

Project: Taylor Station Road-Claycraft Road Roundabout, ST-1087

The undersigned hereby acknowledges receipt of payment for all Work on the Project through the date of the prior Application for Payment by the Prime Contractor (“Prime Contractor”) with which it has a contract. The undersigned acknowledges and agrees that the terms in this Agreement shall have the same meaning as in the Contract Documents for the Project.

In return for said payment, and/or pursuant to certain contractual obligations of the undersigned, the undersigned hereby waives and releases any rights it has or may have through the date of the Prime Contractor's last Application for Payment and to any and all Claims and liens related to the Project, including without limitation: Claims of payment, mechanic's liens, liens against funds, surety bond Claims, and Claims for breach of contract or unjust enrichment. The sole exception to this waiver and release is for any Claims the undersigned has made by properly and timely submitting a Statement of Claim form, a copy of which the undersigned represents has been delivered to the Owner and the Design Professional. The undersigned acknowledges and agrees that this waiver and release is intended to be a comprehensive release of all Claims and liens related to the Project, including without limitation all Claims against the Prime Contractor, the Prime Contractor's surety, the Owner, the Design Professional, any Construction Manager, and the employees, board members, agents and representatives of any of the foregoing persons. The undersigned further certifies that this Agreement covers Claims and liens by all persons with which it did business related to the Project, including without limitation sub-subcontractors and suppliers, through the date of the Prime Contractor's last Application for Payment. The undersigned represents that all such persons have signed an agreement in the form of this Agreement releasing any and all Claims and liens related to the Project, except for any Claims made by properly and timely submitting a Statement of Claim form, a copy of which has been delivered to the Design Professional and the Owner. The undersigned hereby represents and warrants that it has paid any and all welfare, pension, vacation or other contributions required to be paid on account of the employment by the undersigned of any laborers on the Project.

The undersigned agrees that upon receipt of the payment from the Prime Contractor with respect to the Prime Contractor's current Application for Payment, it shall, upon request of the Prime Contractor, Owner, Design Professional, or any Construction Manager, execute a waiver and release agreement in the form of this Agreement, except that such Agreement shall be current through the date of the Prime Contractor's current Payment Application. The undersigned further agrees that, upon receipt of such payment, it shall execute any other documents requested to cause the prejudicial release of any and all Claims and liens through the date of the Prime Contractor's current Payment Application.

This Agreement is for the benefit of, and may be relied upon by, the Prime Contractor, the Prime Contractor's surety, the Owner, the Design Professional and any Construction Manager. The undersigned hereby agrees to indemnify, defend and hold harmless each of the foregoing: the Project, its Work, and real property from any and all Claims and/or liens that are or should have been released in accordance with this Agreement and from any liability, cost, or expense incurred as a result of any breach of this Agreement by the undersigned.

Company Name

Authorized Signature (Company Officer)

Title

Date

State of: _____ County of _____

Subscribed and sworn to before me this _____ day of _____, 2024.

Notary Public: _____

My Commission Expires: _____

STATEMENT OF CLAIM FORM

Claim No. ____ for Contractor

1. Name of Contractor: _____

2. Date written claim given:_____.

3. Contractor's representative to contact regarding the claim:

Name:_____ Title: _____

Telephone No. _____ (office) FAX No. _____

E-mail: _____

4. General description of claim:

5. Contract Documents. If the claim is based upon any part or provision in the Contract Documents, including but not limited to pages in the Drawings and/or paragraphs in the Specifications, Owner-Contractor Agreement, General Conditions or Supplementary General Conditions, state upon which parts or provisions the claim is based:

6. Delay claims:

6.1 Date delay commenced: _____

6.2 Duration or expected duration of the delay, if known: _____

6.3 Apparent cause of the delay and part of critical path affected:

6.4 Expected impact of the delay and recommendations for minimizing such impact:

7. Additional compensation. Set forth in detail all additional compensation to which the Contractor believes it is entitled with respect to this claim:

8. Instructions for Completing the Statement of Claim Form ("Instructions"). The Instructions are incorporated in this Form.

9. Truth of Claim. By submitting this claim, the Contractor and its representative certify that after conscientious and thorough review and to the best of his or her knowledge and belief a) the Contractor has complied fully with the Instructions, b) the information in this State of Claim is accurate, c) the Contractor is entitled to recover the compensation in paragraph 7, and d) the Contractor has not knowingly presented a false or fraudulent claim. The Contractor by its authorized representative must acknowledge this Statement of Claim before a notary public.

CONTRACTOR: _____

By: _____

Name and Title: _____

Date: _____

CONTRACTOR'S ACKNOWLEDGMENT

State of _____,

County of _____, ss:

_____ first being sworn, states that after conscientious and thorough review, the statements made in attached Statement of Claim Form are complete and true to the best of his or her knowledge and belief.

Sworn to before me a notary public by _____ on _____, 2024.

Notary Public

WHEN COMPLETED, FORWARD A COPY OF THIS NOTICE AND STATEMENT OF CLAIM FORM TO THE OWNER AND DESIGN PROFESSIONAL.

STATEMENT OF CLAIM FORM INSTRUCTIONS

1. Completing the Statement of Claim Form ("Claim Form") is a material term of the Contract. The Claim Form tells the Owner and Design Professional that the Contractor is making a Claim and that they need to act promptly to mitigate the effects of the occurrence giving rise to the Claim. The Claim Form also provides them with information so that they can mitigate such effects. The Contractor acknowledges that constructive knowledge of the conditions giving rise to the Claim through job meetings, correspondence, site observations, etc. is inadequate notice, because knowledge of these conditions does not tell the Owner and Design Professional that the Contractor will be making a Claim and most often is incomplete.
2. If the space provided in the Claim Form is insufficient, the Contractor, as necessary to provide complete and detailed information, must attach pages to the Claim Form with the required information.
3. Paragraph 4. The Contractor must state what it wants, *i.e.*, time and/or compensation, and the reason why it is entitled to time and/or compensation.
4. Paragraph 5. The Contractor must identify the exact provisions of the Contract Documents it is relying on in making its Claim. For example, if the Claim is for a change in the scope of the Contractor's Work, the Contractor must identify the specific provisions of the Specifications, and the Plan sheets and details that provide the basis for the scope change.
5. Paragraph 6. This paragraph applies to delay claims, including delays that the Contractor believes result in constructive acceleration. The Contractor must identify the cause of the delay, party or parties responsible, and what the party did or did not do that caused the delay, *i.e.*, specific work activities. The Contractor acknowledges that general statements are not sufficient, and do not provide the Owner with sufficient information to exercise the remedies available to the Owner or to mitigate the effects of the delay.

For example, if the Contractor claims a slow response time on submittals caused a delay, the Contractor must identify the specific submittals, all relevant dates, and then show on the applicable schedule, by circling or highlighting, the activities immediately affected by the delays. Also for example, if the Contractor claims it was delayed by another Contractor, the Contractor must identify the delaying Contractor, specifically what the delaying Contractor did or did not do that caused the delay, and then show the applicable schedule, by circling or highlighting, the activities immediately affected by the delays. Further by example, if the Contractor seeks an extension of time for unusually severe weather, the Contractor must submit comparative weather data along with a record of the actual weather at the job site and job site conditions.

6. Paragraph 6.4. Time is of the essence under the Contract Documents. If there is a delay, it is important to know what can be done to minimize the impact of the delay. It therefore is important that the Contractor provide specific recommendations on how to do so.

7. Paragraph 7. The Contractor must provide a specific and detailed breakdown of the additional compensation it seeks to recover. For future compensation, the Contractor shall provide its best estimate of such compensation.
8. Paragraph 8 and Acknowledgment. By submitting this Claim, the Contractor and its representative certify that after conscientious and thorough review and to the best of his or her knowledge and belief a) the Contractor has complied fully with the Instructions, b) the information in this Claim Form is accurate, c) the Contractor is entitled to recover the compensation in paragraph 7, and d) the Contractor has not knowingly presented a false or fraudulent claim. The Contractor by its authorized representative must acknowledge this Statement of Claim before a notary public.

END OF INSTRUCTIONS

**DESIGN PROFESSIONAL'S
CERTIFICATE OF SUBSTANTIAL COMPLETION**

Project:
Taylor Station Road-Claycraft
Road Roundabout, ST-1087

Contract For:
Constructing a modern roundabout
at the Taylor Station & Claycraft
Road Intersection

Owner:
City of Gahanna
200 South Hamilton Road
Gahanna, Ohio 43230

CONTRACTOR:
Strawser Paving Company
1595 Frank Rd
Columbus, OH 43223

The Design Professional hereby certifies that the Date for Substantial Completion of the Contractor's Work as set forth in the Owner-Contractor Agreement is:

Date:

The Design Professional hereby certifies that the Date for Substantial Completion in the Contractor's Agreement with the Owner (the "Agreement"), as extended by Change Orders and Claims submitted by the Contractor that have been resolved, as defined below, is:

1. Date for Substantial Completion in the Agreement
(above): _____
2. Additional days added to Date for Substantial Completion
by Change Order: _____
3. Additional days added by Claims that have been
Finally Resolved: _____
4. Date for Substantial Completion in the Contract
Adjusted by days under No. 2 and No. 3 _____

The Design Professional certifies that the Contractor's Work to the best of the Design Professional's knowledge, information, and belief was Substantially Complete, as Substantial Completion is defined in the Contract Documents, on _____.

The Design Professional hereby certifies that the difference between (a) the Date for Substantial Completion adjusted by the days under No. 2 and No. 3 above and (b) the date the Contractor's Work was Substantially Complete is _____ days.

NOTICES OF DELAY. The Design Professional hereby certifies that all "NOTICES OF DELAY" submitted by the Contractor and described in the General Conditions are attached to this Certificate. This certification is solely for the purpose of identifying all "NOTICES OF DELAY" submitted by the Contractor and is not intended to imply that any of these NOTICES OF DELAY were properly submitted in accordance with Contract Documents or are valid.

STATEMENT OF CLAIM FORMS. The Design Professional hereby certifies that all Statement of Claim Forms described in the General Conditions and submitted by the

Contractor are attached to this Certificate. This certification is solely for the purpose of identifying all Statement of Claim Forms submitted by the Contractor and is not intended to imply that any of these Statement of Claim Forms were properly submitted in accordance with Contract Documents or are valid.

PUNCHLIST ITEMS. A list of items to be completed by the Contractor is attached to this Certificate. The failure to include items on this list does not change the responsibility of the Contractor to complete its Work in accordance with the Contract Documents. The Contractor shall complete all items on the Punchlist in accordance with the Contract Documents.

Security, maintenance, utilities, damage to the Work and insurance are the responsibility of the Owner and the Contractor based on their operations pursuant to final completion of the Work.

Copies of this Certificate were provided to the Contractor and the Owner on _____.

Design Professional: _____

Signature: _____

Date: _____

APPENDIX A

CMS SUPPLEMENT

CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS SUPPLEMENT

This Supplement shall apply where and to the extent that the City of Columbus Construction and Material Specifications, in the current version as of January 11, 2024, is expressly incorporated into the Contract Documents via the Owner-Contractor Agreement, or when designated as a Contract Document in the list of Contract Documents in the Owner-Contractor Agreement or is referenced anywhere else in the Contract Documents as one of the Contract Documents.

1. Regardless of any terms to the contrary in Division 100 or elsewhere, any directions or orders of the Engineer that will result in an adjustment of the Contract Price or the Contract Time shall require the prior written approval of the Owner. It is expressly understood and agreed that the Engineer does not have authority to authorize changes or modifications in the Contract Price or Contract Time.
2. The Contractor's obligations under this Supplement are in addition to and not in limitation of its other obligations under the Contract Documents.
3. **Delays.** Regardless of the terms in this Supplement, all time adjustments shall be subject to a) filing a Change Proposal and / or Claim in accordance with Articles 11 and 12 of the Modified Standard General Conditions of the Contract for Construction (EJCDC C-700, 2013 edition) ("Modified Standard General Conditions"), b) substantiating the Contractor's entitlement to a time adjustment in accordance with the Modified Standard General Conditions and c) Item 109.05(c). The Contractor will be entitled to additional compensation for delays but only for those delays described in the Modified Standard General Conditions. As part of the Claims process and as a condition precedent to receiving any additional compensation, the Contractor shall prepare a cost analysis as allowed by Item 109.05(c) substantiating its entitlement to additional compensation.
4. **Division 100, General Provisions.** The following Division 100 General Provisions of City of Columbus Construction and Material Specifications, in the current version as of January 11, 2024, are incorporated in this Supplement, subject to any changes or limitations herein.
 - a. Item 101.02, Abbreviations.
 - b. Item 101.03, Definitions, provided where terms that are defined in the other Contract Documents, the definition in the other Contract Documents shall control, and further provided that the following definitions are deleted, modified and/or added:
 - i. "City" shall mean City of Gahanna.
 - ii. Director shall mean the Director of Engineering for the City.
 - iii. Department is deleted.
 - iv. Engineer is deleted.
 - v. Notice of Intent to Award is deleted.

- vi. "Owner" shall mean City of Gahanna.
 - vii. Proposal Form is deleted.
 - viii. Director shall mean the Owner's Representative.
 - ix. "Engineer" shall mean Owner's Representative.
 - x. Laboratory is deleted.
 - xi. Proposal Guaranty is deleted.
 - xii. Subcontractor is deleted.
 - xiii. Work is deleted.
- c. Item 103.03, Cancellation of Award.
 - d. Item 104.05, Right In and Use of Materials Found on the Work.
 - e. Item 104.07, Final Cleaning Up.
 - f. Item 105.02, Plans and Working Drawings, provided that the review of submittals may be by the Owner or the Engineer in the Owner's discretion.
 - g. Item 105.10 Photographs and Videos.
 - h. Item 105.11, Inspection of Work.
 - i. Item 105.12, Removal of Unacceptable and Unauthorized Work.
 - j. Item 105.13, Load Restrictions.
 - k. Item 105.14, Maintenance During Construction.
 - l. Item 105.15, Failure to Maintain Roadway or Structures, Traffic Control Facilities and Other Appurtenance.
 - m. Item 105.16, Borrow and Waste Areas.
 - n. Item 106.01, Source of Supply and Quality Requirements.
 - o. Item 106.02, Samples, Tests and Cited Specifications, provided that this Item will be optional at the discretion of the Owner. If the Owner elects to proceed under this Item, a) the Contractor without additional cost will provide material samples as required by the Owner, and b) the Owner may conduct such tests as it determines proper.
 - p. Item 106.04, Plant Inspection.
 - q. Item 106.05, Storage of Materials.
 - r. Item 106.06, Handling Materials.
 - s. Item 106.07, Unacceptable Materials.
 - t. Item 106.08, City Furnished Material.
 - u. Item 107.01, Laws to be Observed.
 - v. Item 107.02, Permits, Licenses, and Taxes.
 - w. Item 107.03, Patented Devices, Materials, and Processes.
 - x. Item 107.05, Federal-Aid Provisions.

- y. Item 107.06, Sanitary Provisions.
- z. Item 107.07, Public Convenience and Safety.
- aa. Item 107.08, Barricades and Warning Signs.
- bb. Item 107.09, Maintenance of Traffic.
- cc. Item 107.10, Use of Explosives, provided that both bringing explosives onto the site and any use of explosives shall require the prior written approval of the Owner.
- dd. Item 107.11, Protection and Restoration of Property, provided that the Contractor shall remain responsible for all damage and injury to property until the Project is Finally Complete.
- ee. Item 107.13, Responsibility for Damage Claims.
- ff. Item 107.16, Contractor's Responsibility for Work.
- gg. Item 107.17, Contractor's Responsibility for Utility Property and Services.
- hh. Item 107.18, Furnishing Right-of-Way.
- ii. Item 107.19, Personal Liability of Public Officials.
- jj. Item 107.20, No Waiver of Legal Rights.
- kk. Item 107.24, Indemnification.
- ll. Item 108.01, Subletting of Contract.
- mm. Item 108.04, Limitation of Operations.
- nn. Item 108.05, Character of Workers, Methods, and Equipment.
- oo. Item 108.09, Certified Payroll.
- pp. Item 109.01, Measurement of Quantities, provided that this item will apply only where payment is to be based on the measurement of quantities.
- qq. Item 109.04, Compensation for Altered Quantities.

5. **Divisions 200 through 1000.** City of Columbus Construction and Material Specifications, in the current version as of January 11, 2024, are incorporated in this Supplement as follows.

- a. All references to Division 100 Items in Divisions 200 through 1000 shall be to the Division 100 Items as modified in this Supplement.
- b. Where Division 100 Items are referred to in Divisions 200 through 1000 but are not included in this Supplement, the deleted references will be governed by this Paragraph 5.
- c. In Item 203.04, the reference to Item 108.06 shall be governed by Paragraph 3, Delays, in this Supplement.
- d. Any reference to Section 109.05 shall be governed by the payment provisions in the Modified Standard General Conditions, instead.

- e. In Item 514.24, the reference to Item 109.10 shall be governed by the payment provisions in the Modified Standard General Conditions.
- f. In Item 614.02(B), the reference to item 109.11 or 109.12 shall be governed by the payment provisions in the Modified Standard General Conditions, i.e., the Owner will process and make payments in accordance with the provisions in the Modified Standard General Conditions.
- g. General to Divisions 200 through 1000. The basis for payment provided in the Basis for Payment items in these Divisions shall be the basis for payment to the Contractor when applicable.

END OF COLUMBUS CMS SUPPLEMENT

APPENDIX E

ODOT Manual Supplement

ODOT MANUAL SUPPLEMENT

This Supplement shall apply where and to the extent that the State of Ohio Department of Transportation Construction and Material Specifications, in the current version as of January 11, 2024, is expressly incorporated into the Contract Documents via the Owner-Contractor Agreement, or when designated as a Contract Document in the list of Contract Documents in the Owner-Contractor Agreement, or is referenced anywhere else in the Contract Documents as one of the Contract Documents.

1. Regardless of any terms to the contrary in Division 100 or elsewhere, any directions or orders of the Engineer that will result in an adjustment of the Contract Price or the Contract Time shall require the prior written approval of the Owner. It is expressly understood and agreed that the Engineer does not have authority to authorize changes or modifications in the Contract Price or Contract Time.
2. The Contractor's obligations under this ODOT Supplement are in addition to and not in limitation of its other obligations under the Contract Documents.
3. **Delays.** Regardless of the terms in this ODOT Supplement, including Item 109.05, all time adjustments shall be subject to a) filing a Change Proposal and / or Claim in accordance with Articles 11 and 12 of the Modified Standard General Conditions of the Contract for Construction (EJCDC C-700, 2013 edition) ("Modified Standard General Conditions"), b) substantiating the Contractor's entitlement to a time adjustment in accordance with the Modified Standard General Conditions and c) Item 109.05. The Contractor will be entitled to additional compensation for delays but only for those delays described in the Modified Standard General Conditions. As part of the Claims process and as a condition precedent to receiving any additional compensation, the Contractor shall prepare a cost analysis as allowed by Item 109.05.D substantiating its entitlement to additional compensation.
4. **Division 100, General Provisions.** The following Division 100 General Provisions of the State of Ohio Department of Transportation, Construction Specifications Manual in the current version as of January 11, 2024, are incorporated in this ODOT Supplement, subject to any changes or limitations herein.
 - a. Item 101.01, General.
 - b. Item 101.02, Abbreviations, provided that references to DCE, DDD, DET shall mean the Owner.
 - c. Item 101.03, Definitions, provided where terms that are defined in the other Contract Documents, the definition in the other Contract Documents shall control, and further provided that the following definitions are deleted, modified and/or added:
 - i. Claims is deleted
 - ii. Contract Bond is deleted.

- iii. Contract Documents is deleted.
- iv. Contract Price is deleted.
- v. Contract Time is deleted.
- vi. Contractor is deleted.
- vii. Department shall mean the Owner.
- viii. Director shall mean the Owner's representative.
- ix. Disputes is deleted.
- x. Engineer is deleted.
- xi. Extra Work Contract is deleted.
- xii. Final Acceptance shall mean Final Completion as defined in the Owner Contractor Agreement.
- xiii. Final Inspector shall mean the Owner.
- xiv. Laboratory is deleted.
- xv. Prebid Question is deleted.
- xvi. Proposal Guaranty is deleted.
- xvii. Questionnaire is deleted.
- xviii. Shop Drawings is deleted.
- xix. Signatures on Contract Documents is deleted.
- xx. State or state shall mean the Owner.
- xxi. Subcontractor is deleted.
- xxii. Work is deleted.
- d. Item 101.04, Interpretations.
- e. Item 103.03, Cancellation of Award.
- f. Item 104.02.D.2, Significant Changes in the Character of the Work (including both tables following this Item), provided that all references to Item 108 and 109.12 are deleted and that all time adjustments shall be subject to filing a Change Proposal and / or Claim in accordance with the Modified Standard General Conditions and substantiating the entitlement to an extension of time as provided in the Modified Standard General Conditions (EJCDC Document C-700, 2013 edition) ("Modified Standard General Conditions").
- g. Item 104.03, Rights in and Use of Materials Found on the Work.
- h. Item 104.04, Cleaning Up.
- i. Item 105.02, Plans and Working Drawings, provided that the review of submittals may be by the Owner or the Engineer in the Owner's discretion.
- j. Item 105.06, Superintendent.

- k. Item 105.10, Inspection of Work.
- l. Item 105.11, Removal of Defective and Unauthorized Work.
- m. Item 105.12, Load Restrictions.
- n. Item 105.13, Haul Roads, provided that the second paragraph in this Item is deleted. The Contractor shall be responsible for any damage to the roads referred to in the second paragraph.
- o. Item 105.14, Maintenance During Construction, except substitute "Final Completion" for "Final Inspector accepts the work under 109.12" and delete the remainder of the first sentence. Additionally, delete the second to last sentence in this Item.
- p. Item 105.15, Failure to Maintain Roadway or Structure.
- q. Item 105.16, Borrow and Waste Areas.
- r. Item 105.17, Construction and Demolition Debris.
- s. Item 106.01, Source of Supply and Quality Requirements.
- t. Item 106.02, Samples, Tests and Cited Specifications, provided that this Item will be optional at the discretion of the Owner. If the Owner elects to proceed under this Item, a) the Contractor without additional cost will provide material samples as required by the Owner, and b) the Owner may conduct such tests as it determines proper.
- u. Item 106.03, Small Quantities and Materials for Temporary Application.
- v. Item 106.04, Plant Sampling and Testing Plan.
- w. Item 106.05, Storage of Materials.
- x. Item 106.06, Handling Materials.
- y. Item 106.07, Unacceptable Materials, except substitute the word "unacceptance" in the third sentence with the word "unacceptable."
- z. Item 106.08, Department-Furnished Material.
- aa. Item 106.09, Steel and Iron Products Made in the United States.
- bb. Item 107.01, Laws to be Observed.
- cc. Item 107.02, Permits, Licenses, and Taxes.
- dd. Item 107.03, Patented Devices, Materials, and Processes.
- ee. Item 107.05, Federal-Aid Provisions.
- ff. Item 107.06, Sanitary Provisions.
- gg. Item 107.07, Public Convenience and Safety.
- hh. Item 107.08, Bridges Over Navigable Waters.
- ii. Item 107.09, Use of Explosives, provided that both bringing explosives onto the site and any use of explosives shall require the prior written approval of the Owner.

- jj. Item 107.10, Protection and Restoration of Property, provided that the Contractor shall remain responsible for all damage and injury to property until the Project is Finally Complete, and all references to Items 109.11 and 109.12 are deleted.
- kk. Item 107.11, Contractor's Use of the Project Right-of-Way or Other Department-Owned Property, provided the reference to Item 109.12 is deleted.
- ll. Item 107.12, Responsibility for Damage Claims and Liability Insurance, provided that all notices and certificates shall be delivered to the Owner's representative and, if there is no Owner's representative, to the Engineer. Reference to the "State of Ohio, Department of Transportation" shall mean the Owner.
- mm. Item 107.13, Reporting, Investigating, and Resolving Motorist Damage Claims, provided that this item is modified to read, "When a motorist reports damage to its vehicle either verbally or in writing to the Contractor, the Contractor shall within 3 days make and file a written report to the Owner and the Engineer and also file a report with its insurance carrier".
- nn. Item 107.14 Opening Sections of Project to Traffic, provided that the reference to Item 108.06 is deleted.
- oo. Item 107.15, Contractor's Responsibility for Work, provided that reference to "Final Inspection according to 109.12.A" shall mean "Final Completion." and all references to Item 108 are deleted.
- pp. Item 107.17, Furnishing Right-of-Way.
- qq. Item 107.19, Environmental Protection, provided that the Owner makes no representation as to having acquired any permits unless expressly provided in the Contract Documents. The Contractor will comply with any permits obtained by the Owner.
- rr. Item 107.20, Civil Rights.
- ss. Item 107.21, Prompt Payment.
- tt. Item 108.01, Subletting of the Contract, provided that the Contractor need not provide the Owner with information or reports on DBE participation unless the Contract Documents otherwise require such reports or information. Additionally, unless otherwise provided in the Contract Documents, the 50% self contracting requirement in the first sentence is waived.
- uu. Item 108.04, Limitation of Operations.
- vv. Item 108.05, Character of Workers, Methods, and Equipment.
- ww. Item 108.10, Payroll Records.
- xx. Item 109.01, Measurement of Quantities, provided that this item will apply only where payment is to be based on the measurement of quantities.
- yy. Item 109.02, Measurement Units.

- zz. Item 109.03, Scope of Payment.
 - aaa. (Reserved.)
 - bbb. Item 109.05, Extra Work as modified in this Supplement, provided that a) the references to Items 105.07, 105.10 and 108 are deleted, b) all negotiated prices shall required the Owner's written approval, c) the Owner must approve in writing any directions or orders by the Engineer to proceed with force account work, d) in Item 109.05.B.2 the reference to Department shall mean the Ohio Department of Transportation, e) the compensation provided in 109.05.B through 109.05.D constitutes payment in full for all the items referred to in Items 109.05.C.1-10, except for any additional compensation for delays, f) the mark-ups provided in Items 109.05.D.2.b and 109.05.D.2.d are deleted, and g) Item 109.05.D.2.f regarding home office overhead is deleted. The Contractor's entitlement to home office overhead, if any, shall be subject to current Ohio law.
 - ccc. 109.06, Directed Acceleration.
 - ddd. (Reserved.)
 - eee. 109.08, Unrecoverable Costs.
5. **Divisions 200 through 700.** Divisions 200 through 700 of the State of Ohio Department of Transportation, Construction Specifications Manual in the current version as of January 11, 2024 are incorporated in this ODOT Supplement.
- a. All references to Division 100 Items in Divisions 200 through 700 shall be to the Division 100 Items as modified in this Supplement.
 - b. Where Division 100 Items are referred to in Divisions 200 through 700 but are not included in this Supplement, the deleted references will be governed by this Paragraph 5.
 - c. In Item 203.04, the reference to Item 108.06 shall be governed by Paragraph 3, Delays, in this Supplement.
 - d. In Item 514.24, the reference to Item 109.10 shall be governed by the payment provisions in the Modified Standard General Conditions.
 - e. In Item 624.04, the reference to item 109.09 shall be governed by the payment provisions in the Modified Standard General Conditions, i.e., the Owner will process and make payments in accordance with the provisions in the Modified Standard General Conditions. In this regard, the basis for payment of mobilization costs will be as provided in Item 624.04.
 - f. General to Divisions 200 through 700. The basis for payment provided in the Basis for Payment items in these Divisions shall be the basis for payment to the Contractor when applicable.

END OF ODOT SUPPLEMENT