

BID DOCUMENTS FOR

COUNTRY CLUB DR. CULVERT REPLACEMENT

PROJECT NO. 2021-043

BID NO. 2561

SET # ____

ENGINEERING DEPARTMENT 635 ALFRED BROWN JR. COURT SW, POST OFFICE BOX 308 CONCORD, NORTH CAROLINA 28026-0308

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SECTION I

BIDS, AGREEMENTS, AND NOTICES



BID ADVERTISEMENT/INVITATION TO BID

October 27, 2022Project Title:Country Club Dr. Culvert Replacement
Project No. 2021-043Project Description:The Country Club Dr. Culvert Replacement project consists of the removal of
3 existing 72" pipes and the installation of 2 - 78' long, 12' wide and 11' high
concrete box culverts and associated services that will include approximately 212'
of 18", 24", and 30" storm sewer pipe, relocation of 6" and 8" water mains,
coordination with utility agencies on other utility adjustments by others, roadway
pavement reconstruction, and other appurtenances along Country Club Dr. NE in
Concord NC.

Sealed Bids will be received by the City of Concord (Owner) at the address below. Please submit notarized bids in a sealed envelope by the bid opening time and date. All Bids must be in accordance with the Bidding Documents on file with the City of Concord Engineering Department. Bidders must be licensed contractors in the State of North Carolina. Bids will be received on a unit price basis. A Bid Bond must accompany each bid. The Successful Bidder will be required to furnish a Construction Performance Bond and a Construction Payment Bond as security for the faithful performance and the payment of all bills and obligations arising from the performance of the Contract. Contractor and all Subcontractors will be required to conform to the labor standards set forth in the Contract Documents. Owner reserves the right to reject any or all Bids, including without limitation the rights to reject any or all nonconforming, nonresponsive, unbalanced, or conditional Bids, and will award to lowest responsible Bidder taking into consideration quality, performance, and time specified in Bid Form for performance of Work. Owner also reserves the right to waive informalities.

Enrique A. Blat, PE Deputy City Engineer

Engineer: City of Concord Engineering Department Alfred M. Brown Operations Center 635 Alfred Brown Jr Court SW P O Box 308, Concord, NC 28026-0308

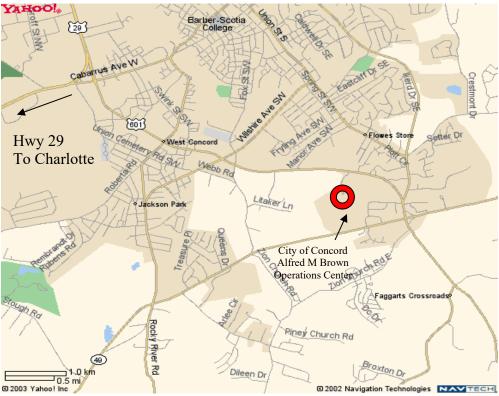
Contractors wishing to bid on this project must register to bid by sending an email to Carolina Garcia-Zaragoza, P.E. at gzaragozac@concordnc.gov. Registration for bidding requires the name of the company, physical address, email address, and telephone number. All communication regarding this bid will be done through email.

Bid documents are available free of charge from the City of Concord website at: <u>https://concordnc.gov/Departments/Finance/Purchasing/RFPs-RFQs-and-Bids</u>

<u>Technical questions</u>: Contact Carolina Garcia Zaragoza Villa, P.E., (<u>gzaragozac@concordnc.gov</u>) 704.920.5425 Bid Due Date: Location: November 18, 2022 at 10:00 am

City of Concord, Alfred M. Brown Operations Center 635 Alfred Brown Jr Court SW, Concord, NC 28026 Conference Room C (See attached map/directions)

MAP AND DIRECTIONS TO CITY OF CONCORD ALFRED M BROWN OPERATIONS CENTER



Directions from Charlotte

- Take I-77 north to I-85 north from Charlotte to Concord.
- From I-85 north, take exit 49 to the right towards Lowe's Motor Speedway.
- At the Lowe's Motor Speedway, turn left onto Highway 29 (Concord Pkwy) north.
- Keep going north while you pass the Wal-Mart shopping center on your right.
- Turn right at the light at the Chevrolet dealership onto Cabarrus Avenue.
- Turn right at the next traffic light at the Walgreens onto Hwy 601 South (bypass). (Hwy 601 S is also Warren C. Coleman Boulevard).
- Go straight through two traffic lights at Old Charlotte Road and Wilshire Avenue.
- Pass the Bi-Lo shopping center on your left.
- Turn right at the next traffic light at Alfred Brown Jr Court SW (green & white sign on right for the City of Concord Alfred M. Brown Operations Center).
- You will be on the entrance road into our complex.
- Follow signs to the left to Visitor Parking.
- Proceed to the front desk at the Administration Building and sign in with the receptionist.

INSTRUCTIONS TO BIDDERS

1. <u>DEFINED TERMS</u>. Terms used in these Instructions to Bidders are meanings assigned to them in the General Conditions and the Supplementary Conditions. An additional term is defined as follows:

Successful Bidder - The lowest, qualified, responsible, and responsive Bidder to whom Owner (on the basis of Owner's evaluation as herein provided) makes an award.

2. <u>COPIES OF BID DOCUMENTS</u>. Bid Documents may be obtained from the Owner via the link below for the City of Concord's website.

Complete set of Bid DocumentsChargeFree download

https://concordnc.gov/Departments/Finance/Purchasing/RFPs-RFQs-and-Bids

Partial sets of Bid Documents will not be issued in response to requests by subject matter.

Complete sets of Bid Documents must be used in preparing Bids; neither Owner nor Engineer assumes any responsibility for errors or misrepresentations resulting from the use of incomplete sets of Quoting Documents.

Owner and Engineer, in making copies of Quoting Documents available on the above terms, do so only for the purpose of obtaining Bids for the Work and do not confer a license or grant for any other use.

3. <u>QUALIFICATIONS OF BIDDERS</u>. To demonstrate qualifications to perform the Work, Bidder may be required to submit written evidence on financial data, previous experience, present commitments, and other such data as may be requested by Owner or Engineer. Each Bid must contain evidence of Bidder's qualification to do business in the state where the Project is located, or Bidder must agree to obtain such qualification prior to award of the Contract.

4. <u>EXAMINATION OF CONTRACT DOCUMENTS AND SITE</u>. It is the responsibility of each Bidder, before submitting a Bid, to (a) thoroughly examine the Contract Documents, (b) visit the site to become familiar with local conditions that may affect cost, progress, performance, or furnishing of the Work, (c) consider federal, state, and local laws and regulations that may affect cost, progress, performance, or furnishing of the Work, (d) study and carefully correlate Bidder's observations with the Contract Documents, and (e) notify Engineer of all conflicts, errors, or discrepancies discovered by Bidder in the Contract Documents.

4.02. <u>Underground Facilities</u>. Information and data reflected in the Contract Documents with respect to underground facilities at or contiguous to the site are based upon information and data furnished to Owner and Engineer by owners of such underground facilities or others, and Owner and Engineer disclaim responsibility for the accuracy or completeness thereof unless it is expressly provided otherwise in the Supplementary Conditions.

4.03. <u>Additional Information</u>. Before submitting a Bid, each Bidder will, at Bidder's own expense, make or obtain any additional examinations, investigations, explorations, tests, and studies and obtain any additional information and data which pertain to the physical conditions (surface, subsurface, and underground facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance, or furnishing of the Work and which Bidder deems necessary to determine its Bid for performing and furnishing the Work in accordance with the time, price, and other terms and conditions of the Contract Documents.

On request 24 hours in advance, Owner will provide each Bidder access to the site to conduct such explorations and tests as each Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and clean up and restore the site to its former condition upon completion of such explorations. Arrangements for site visits shall be made by calling the office of the Director of Engineering for the City of Concord at 704.920.5425.

4.04. <u>Easements</u>. The lands upon which the Work is to be performed, rights-of-way and easements for access thereto, and other lands designated for use by Contractor in performing the Work are identified in the Contract Documents. All additional lands and access thereto required for temporary construction facilities or storage of materials and equipment are to be provided by Contractor. Easements for permanent structures or permanent changes in existing structures are to be obtained and paid for by Owner unless otherwise specified in the Contract Documents.

4.05. <u>Unit Price Contracts</u>. Bidders must satisfy themselves of the accuracy of the estimated quantities in the Bid schedule by examination of the site and a review of the drawings and the specifications, including the addenda. After Bids have been submitted, the Bidder shall not assert that there was a misunderstanding concerning the quantities of work or the nature of the work to be done.

4.06. <u>Bidder's Representation</u>. The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement concerning examination of the Contract Documents and the site, that without exception the Bid is premised upon performing and furnishing the Work required by the Contract Documents, and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

5. <u>INTERPRETATIONS AND ADDENDA</u>. All questions about the meaning or intent of the Quoting Documents and the Contract Documents shall be submitted to Owner in writing. Interpretations or clarifications considered necessary by Owner in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by Engineer as having received the Quoting Documents. Questions received less than 10 days prior to the date for opening of Bids may not be answered. Only answers issued by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

6. **BID SECURITY**. **Each Proposal must be accompanied by a deposit equal to 5% of the net price bid.** This deposit may consist of cash, or a Cashier's Check issued by, or a Certified Check drawn on a Bank or Trust Company authorized to do business in North Carolina, or on a Bank insured by the Federal Deposit Insurance Corporation, or a U.S. Money Order, payable to the City of Concord or 5% Bid Bond in the form required by G.S. 143-129 as amended, issued by an Insurance Company authorized to do business in North Carolina, said deposit to be retained in the event of failure of the successful bidder to execute a formal contract within ten (10) days after award or to give satisfactory surety required.

The Bid security of the Successful Bidder (if so required) will be retained until such Bidder has executed the Agreement, furnished the required contract security (if so required), and met the other conditions of the Notice of Award, whereupon the Bid security will be returned. If the Successful Bidder fails to execute and deliver the Agreement and furnish the required contract security within the number of days set forth in the Bid Form, Owner may annul the Notice of Award and the Bid security of that Bidder will be forfeited. The Bid security (if so required) of other Bidders whom Owner believes to have a reasonable chance of receiving the award may be retained by Owner until the earlier of 7 days after the Effective Date of the Agreement or the day after the last day the Bid remain subject to acceptance as set forth in the Bid Form, whereupon Bid security furnished by such Bidders will be returned. Bid security accompanying Bid which are deemed by Owner to be noncompetitive will be returned within 7 days after the designated Bid opening.

7. <u>CONTRACT TIMES</u>. The numbers of calendar days within which, or the dates by which, the Work is to be substantially completed and also completed and ready for final payment (the Contract Times) are set forth in the Bid Form.

8. <u>LIQUIDATED DAMAGES</u>. Provisions for liquidated damages, if any, are set forth in the Agreement.

9. <u>SUBSTITUTES OR "OR-EQUAL ITEMS</u>. Bidder's attention is directed to Article 6.5 of the General Conditions concerning substitutes and "or-equal" items. Where an item or material is specified by a proprietary name, it is done for the purpose of establishing a basis of quality and not for the purpose of limiting competition. The Engineer's intent is to consider alternative products which have the desired essential characteristics. The Engineer will consider any such products offered. Requests for acceptance of alternative products shall be made through Bidders quoting as prime Contractors. Acceptances for substitutions will not be granted directly to suppliers, distributors, or subcontractors. Pursuant to Section 133-3, General Statutes of North Carolina, the following procedures shall be used:

Bidders desiring to submit alternative product proposals for prior acceptance of the Engineers shall submit, in writing, such proposals from <u>n/a</u>, until <u>n/a</u>. Applications received after this time will not be reviewed. Each such request shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitute, including drawings, cuts, performance and test data, and other information necessary for an evaluation. A statement setting forth any changes in other materials, equipment, or other work that incorporation of the substitute would require shall be included. The Engineer shall consider and either accept or reject all alternative product proposals submitted.

If, by the close of the fifth day prior to the deadline for receiving Bid, the Engineer has accepted any alternative product proposals, the Quoting Documents shall be modified to include the alternative products. The Engineer shall publish the modification in an Addenda at least 5 days prior to the deadline for receiving Bids. The Engineer's decision of acceptance or rejection of a proposed substitute shall be final.

10. <u>SUBCONTRACTORS</u>, <u>SUPPLIERS</u>, <u>AND</u> <u>OTHERS</u>. If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, and other persons and organizations (including those who are to furnish the principal items of material and equipment) to be submitted to Owner in advance of a specified date prior to the Effective Date of the Agreement, the apparent Successful Bidder, and any other Bidder so requested, shall within 3 days after the opening submit to Owner the List of Subcontractors completed with all such Subcontractors, Suppliers, and other persons and organizations proposed for those portions of the Work for which such identification is required. The list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, person, or organization, if requested by Owner. If Owner or Engineer after due investigation has reasonable objection to any proposed Subcontractor, Supplier, or other person or organization, Owner may, before the Notice of Award is given, request the apparent Successful Bidder to submit an acceptable substitute without an increase in the Bid.

All Subcontractors shall be a licensed utility contractor in the State of North Carolina.

11. <u>BID FORM</u>. The Bid Form is bound in the Quoting Documents and shall not be removed therefrom. Bid Forms must be completed in ink.

Bids by corporations must be executed in the corporate name by the president or vice-president (or other corporate officer accompanied by evidence of authority to sign for the corporation). Bids by partnerships must be executed in the partnership name and signed by a partner. Bids by joint ventures shall be signed by each participant in the joint venture or by a representative of the joint venture accompanied by evidence of authority to sign for the joint venture.

The names of all persons signing shall be legibly printed below the signature. A Bid by a person who affixes to his signature the word "president", "secretary", "agent", or other designation without disclosing his principal may be held to be the Bid of the individual signing. When requested by Owner, evidence of the authority of the person signing shall be furnished.

All blanks in the Bid Form shall be filled. A Bid price shall be indicated for each unit price item listed therein, or the words "No Bid", "No Charge", "No Charge", or other appropriate phrase shall be entered.

The Bid shall contain an acknowledgment of receipt of all Addenda; the numbers and dates of which shall be filled in on the Bid Form.

No alterations in Bids, or in the printed forms therefore, by erasures, interpolations, or otherwise will be acceptable unless each such alteration is signed or initialed by the Bidder; if initialed, Owner may require the Bidder to identify any alteration so initialed.

11.01. <u>Bid Pricing</u>. The Bidder shall complete the schedule of unit prices included in the Bid Form and shall accept all fixed unit prices listed therein.

The total Bid will be determined as the sum of the products of the estimated quantity of each item and the unit price Bid. The final Contract Price will be subject to adjustment according to final measured, used, or delivered quantities as provided in Article 9.7 of the General Conditions, and the unit prices in the Bid will apply to such final quantities except that unit prices will be subject to change by Change Order as stipulated in the Supplementary Conditions.

11.02. <u>Contingency</u>. The Contingency is to be added to the Bid price and is to be used for minor change order items. If the Contingency is to be used, a scope of work and price would be negotiated. The Contingency is for the sole use of Owner. A change order will be issued to delete any unauthorized portion of the Contingency.

12. <u>SUBMISSION OF BIDS</u>. Bids shall be submitted at the time and place indicated in the Invitation to Bid, or the modified time and place indicated by Addendum. Bids shall be enclosed in a sealed envelope or wrapping, addressed to:

<u>The City of Concord</u> <u>Enrique Blat, PE, Deputy City Engineer</u> <u>P.O. Box 308</u> <u>635 Alfred Brown Jr Court SW</u> <u>Concord, North Carolina 28026-0308</u>

Bids shall be marked with the name, license number, and address of the Bidder and shall be accompanied by the Bid security (if required) and other required documents. If the Bid is sent through the mail or other delivery system, the sealed envelope shall be enclosed in a separate envelope with the notation "BID ENCLOSED" on the face of it.

Each Bid envelope shall be identified on the outside with the words:

"BID FOR COUNTRY CLUB DR. NE CULVERT REPLACEMENT – PROJECT 2021-043"

Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids. Bids received after the time and date for receipt of Bids will be returned unopened.

One copy of all pages of the BID FORM must be submitted with the Bid, as well as a Bid Bond and Debarred Firms Certification Form.

Oral, telephone, facsimile, or telegraph Bids are invalid and will not receive consideration.

No Bidder may submit more than one Bid. Multiple Bids under different names will not be accepted from one firm or association.

A conditional or qualified Bid will not be accepted.

13. <u>MODIFICATION</u> <u>AND</u> <u>WITHDRAWAL</u> <u>OF</u> <u>BIDS</u>. Bids may be modified or withdrawn by an appropriate document duly executed (in the manner that a Bid must be executed) and delivered to the place where Bids are to be submitted at any time prior to the opening of Bids.

If, within 24 hours after Bids are opened, any Bidder files a duly signed, written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid and the Bid security (if any) will be returned. Thereafter, that Bidder will be disqualified from further quoting on the Work to be provided under the Contract Documents.

14. <u>OPENING OF BIDS</u>. Bids will be opened at the office and at the discretion of the Director of Engineering and read aloud.

The procedure for opening Bids will follow guidelines issued by the State Building Commission dated December 10, 1990, and endorsed by the Consulting Engineers Council of North Carolina.

15. <u>BIDS TO REMAIN SUBJECT TO ACCEPTANCE</u>. All Bids will remain subject to acceptance for the number of days set forth in the Bid Form, but Owner may, in its sole discretion, release any Bid and return the security (if any) prior to that date.

16. <u>AWARD OF CONTRACT</u>. Owner reserves the right to reject any or all Bids, including without limitation the rights to reject any or all nonconforming, nonresponsive, unbalanced, or conditional Bids, and will award to lowest responsible Bidder taking into consideration quality, performance, and time specified in Bid Form for performance of Work. Owner also reserves the right to waive informalities.

In evaluating Bids, Owner will consider the qualifications of the Bidders, whether or not the Bids comply with the prescribed requirements, and such alternatives, unit prices, and other data, as may be requested in the Bid Form or prior to the Notice of Award.

Owner may consider the qualifications and experience of Subcontractors, Suppliers, and other persons and organizations proposed for those portions of the Work for which the identity of Subcontractors, Suppliers, and other persons and organizations must be submitted as provided in the Supplementary Conditions. Owner also may consider the operating costs, maintenance requirements, performance data, and guarantees of major items of materials and equipment proposed for incorporation in the Work when such data is required to be submitted prior to the Notice of Award.

Owner may conduct such investigations as Owner deems necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, and other persons and organizations to perform and furnish the Work in accordance with the Contract Documents to Owner's satisfaction within the prescribed time.

If the Contract is to be awarded, it will be awarded to the lowest Bidder whose evaluation by Owner indicates to Owner that the award will be in the best interests of Owner. If the Contract is to be awarded, Owner will give the Successful Bidder a Notice of Award within the number of days set forth in the Bid

Form. The evaluation of Suppliers' or manufacturers' data submitted with the Bid, or submitted upon request prior to the Notice of Award, will include consideration of the following:

- Owner-required inventory of spare parts.
- Building design changes which would be required to accommodate the proposed materials and equipment.
- Installation requirements and related engineering, training, and operating costs.
- Experience and performance record of the Supplier or the manufacturer.
- Maintenance and frequency of inspections required to assure reliable performance of the equipment.
- Suppliers' or manufacturers' service facilities and availability of qualified field service personnel.
- Efficiency and related operating expense during the anticipated useful life of the equipment.

17. <u>CONTRACT SECURITY</u>. The General Conditions set forth Owner's requirements as to Performance and Payment Bonds (required). These Bonds shall be delivered to Owner with the executed Agreement.

18. <u>SIGNING OF AGREEMENT</u>. When Owner gives a Notice of Award to the Successful Bidder, it will be accompanied by two unsigned counterparts of the Agreement with all other written Contract Documents attached. Within the number of days set forth in the Bid Form, the Successful Bidder shall sign, leaving the dates blank, and deliver the required number of counterparts of the Agreement and attached documents to Owner with the required Bonds and power of attorney. Within 30 days thereafter, Owner shall execute all copies of the Agreement and other Contract Documents submitted by Contractor (Successful Bidder); shall insert the date of contract on the Agreement, Bonds, and power of attorney; and shall distribute signed copies as stipulated in the Agreement.

Should the Owner not execute the Contract within the period specified, the Successful Bidder may, by written notice, withdraw his signed Contract. Such notice or withdrawal shall be effective upon receipt of the notice by the Owner.

19. <u>SALES AND USE TAXES</u>. Provisions for sales and use taxes, if any, are set forth in the Supplementary Conditions.

20. <u>RETAINAGE</u>. Provisions concerning retainage are set forth in the Agreement.

21. <u>LAWS AND REGULATIONS</u>. Modifications, if any, to the General Conditions concerning Laws and Regulations are set forth in the Supplementary Conditions. Additional provisions, if any, concerning Laws and Regulations are set forth in the Agreement.

21.01. <u>Collusive Bidding</u>. In accordance with Section 112(c) of Title 23 USC, and G.S. 75-5(b)(7) of the State of North Carolina, the Contractor (Bidder), by submission and execution of this bid or Bid, certifies that he has not entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding or quoting in connection with his Bid on this project.

End of Section

DEBARRED FIRMS CERTIFICATION FORM

Country Club Dr. Culvert Replacement Project No. 2021-043

The undersigned hereby certifies that the firm of ______ has not been suspended by the State of North Carolina or any agency or department thereof for conviction or indictment or any of the offenses enumerated in G.S. 133-27 nor will award subcontracts of any tier to firms that have been suspended for conviction or indictment of any of the offenses enumerated in G.S. 133-27.

Name of Firm

ATTEST (SEAL)

Signature of Authorized Official

Title

Sworn and subscribed before me this

_____ day of _____, 20___

Notary Public

EXHIBIT A – BID FORM

PROJECT IDENTIFICATION:

Country Club Dr. Culvert Replacement Project No. 2021-043

THIS BID IS SUBMITTED TO:

Enrique Blat, PE, Deputy City Engineer City of Concord 635 Alfred Brown Jr Court SW P.O. Box 308 Concord, North Carolina 28026-0308

- 1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with Owner in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents within the specified time and for the amount indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
- 2. Bidder accepts all of the terms and conditions of the Invitation to Bid and the Instructions to Bid, including without limitation those dealing with the disposition of the Bid security (if security is required by the City Manager). This Bid will remain subject to acceptance for 60 days after the day designated for reception of Bids. Bidder will sign and submit the Agreement with the Bonds and other documents required by the Quoting Documents within 10 days after the date of Owner's Notice of Award.
- 3. In submitting this Bid, Bidder represents that:
 - a. Bidder has examined copies of all the Quoting Documents and of the following Addenda (receipt of all which is hereby acknowledged):

No	Dated
No	Dated

- b. Bidder has visited the site and become familiar with and satisfied itself as to the general, local, and site conditions that may affect cost, progress, performance, and furnishing of the Work.
- c. Bidder is familiar with and has satisfied itself as to all Federal, State, and Local Laws and Regulations that may affect cost, progress, performance, and furnishing of Work.

- d. Bidder has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site (except underground facilities) which have provided by the owner and under the conditions normally used and identified in the Supplementary Conditions and Special Conditions as provided in Paragraph 4.2.1 of the General Conditions. Bidder accepts the determination set forth in the Supplementary Conditions and Special Conditions of the extent of the "technical data" contained in such reports and drawings upon which Bidder is entitled to rely as provided in Paragraph 4.2 of the General Conditions. Bidder acknowledges that such reports and drawings are not Contract Documents and may not be complete for Bidder's purposes. Bidder acknowledges that Owner and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Quoting Documents with respect to underground facilities at or contiguous to the site. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all such additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and underground facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance, or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder and safety precautions and programs incident thereto. Bidder does not consider that any additional examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance and furnishing of the Work in accordance with the time, price, and other terms and conditions of the Contract Documents.
- e. Bidder is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Contract Documents.
- f. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.
- g. Bidder has given Engineer written and verbal notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Contract Documents and the written resolution thereof by Engineer is acceptable to Bidder, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.
- h. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid Bidder has not solicited or induced any person, firm, or corporation to refrain from quoting; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.
- 4. Bidder will complete the Work for the following unit prices. Quantities indicated are estimated and not guaranteed; they are solely for comparing Bids and establishing the initial Contract Price. Final payment will be based on actual quantities.

EXHIBIT A – BID FORM

Country Club Dr. Culvert Replacement - Project No. 2021-043

No.	Item	Description	Qty.	Units	Unit Price (\$)	ltem Total (\$)
1	800	Mobilization	1	LS		
2	801	Construction Surveying	1	LS		
3	SP-01	Traffic Control	1	LS		
4	SP-02	Comprehensive Grading	1	LS		
5	SP-03	Select Material	4600	ΤN		
6	SP-04	Borrow Excavation	100	CY		
7	SP-05	Rock Removal	100	CY		
8	225	Undercut Excavation	100	СҮ		
9	300	Foundation Conditioning Material, Minor Structures	100	TN		
10	300	Foundation Conditioning Geotextile	400	SY		
11	SP-07	12' X 11' Precast R.C. Culvert	156	LF		
12	SP-08	Precast Modular Block Gravity Retaining Wall, Strong Stone	1250	SF		
13	SP-09	Non-standard Toewall	7.5	СҮ		
14	610	Surface Course 2.5" S 9.5B	260	ΤN		
15	610	Intermediate Course 2.25" I 19.0C	160	ΤN		
16	610	Base Course 3.5" B 25.0C	100	ΤN		
17	620	Asphalt Binder for Plant Mix	30	ΤN		
18	520	Aggregate Base Course	100	ΤN		
19	607	Incidental Milling	100	SY		
20	654	Asphalt Plant Mix, Pavement Repair	15	TN		
21	846	2'-6" Concrete Curb & Gutter	580	LF		
22	848	6" Concrete Driveway	95	SY		
23	858	Adjustment of Manholes	1	EA		
24	858	Adjustment of Valve Boxes	1	EA		

No.	Item	Description	Qty.	Units	Unit Price (\$)	Item Total (\$)
25	SP-10	Stream Pump Around Operation	1	LS		
26	876	Rip Rap, Class B	120	TN		
27	876	Rip Rap, Class 2	260	TN		
28	876	Geotextile for Drainage	600	SY		
29	SP-12	Coir Fiber Matting	540	SY		
30	1605	Temporary Silt Fence	150	LF		
31	1610	Stone for Erosion Control, Class B	50	TN		
32	1610	Sediment Control Stone	15	TN		
33	SP-13	Storm Drain Inlet Protection	4	EA		
34	SP-14	Safety Fence	900	LF		
35	1631	Matting for Erosion Control (Biodegradable Netting)	1500	SY		
36	1660	Seeding and Mulching	1.1	AC		
		Storm Sew	er			
37	305	18" RCP Storm Pipe (Class III)	119	LF		
38	305	24" RCP Storm Pipe (Class III)	154	LF		
39	305	24" RCP Storm Pipe (Class IV)	72	LF		
40	310	24" P.C. Cross Pipe End Section	1	EA		
41	840	Masonry Drainage Structures, Std. 840.02	6	EA		
42	840	Masonry Drainage Structures, Std. 840.02 - Additional Depth	13.2	LF		
43	840	Masonry Drainage Structures, Std. 840.04	2	EA		
44	840	Masonry Drainage Structures, Std. 840.31	2	EA		
45	840	Frame with Grate and Hood, Std 840.03 Type F	1	EA		
46	840	Frame with Grate and Hood, Std 840.03 Type G	1	EA		
47	840	Frame with Grate and Hood, Std 840.03 Type E	4	EA		
48	840	Frame with Cover, Std 840.54	2	EA		

No.	Item	Description	Qty.	Units	Unit Price (\$)	Item Total (\$)
49	SP-15	Flowable Fill for Storm Pipe Abandonment	5	СҮ		
		Guardrail				I
50	863	Steel Beam Guardrail	162.5	LF		
51	863	Steel Beam Guardrail, Shop Curved	25	LF		
52	863	Additional Guardrail Post	5	EA		
53	863	Guardrail End Units, Type TL-2	2	EA		
54	863	Guardrail End Units, Type CAT-1	1	EA		
55	863	Guardrail End Units, Type AT-1	1	EA		
		Water Line Repla	cement			
56	WSACC	6" Restrained DIP Water Pipe	20	LF		
57	WSACC	6" 45-degree DIP Bend	4	EA		
58	WSACC	8" Restrained DIP Water Pipe	220	LF		
59	WSACC	8" 45-degree DIP Bend	9	EA		
60	WSACC	8" x 8" x 8" DIP Tee	1	EA		
61	WSACC	8" x 6" DIP Reducer	1	EA		
62	WSACC	8" Gate Valve w/ Valve Box	1	EA		
63	WSACC	8" TEAM Insertion Valve	1	EA		
64	WSACC	6" TEAM Insertion Valve	1	EA		
65	WSACC	18" by 0.250" Thick Steel Casing w/ Stainless Steel Spiders	67	LF		
66	WSACC	Fire Hydrant Assembly	1	EA		
67	WSACC	6" Restrained DIP Water Pipe	10	LF		
68	WSACC	6" Gate Valve w/ Valve Box	1	EA		
69	WSACC	Connection to Existing Watermains	1	LS		

TOTAL BASE COST

10% CONTINGENCY

TOTAL COST

\$_____

\$_____

\$_____

- 5. Bidder agrees that all work will be completed and ready for final payment in accordance with Paragraph 14.13 of the General Conditions within 270 days from the date of notice to proceed.
- 6. Liquidated damages are \$250.00 per each day past the contract completion date.
- 7. Communications concerning this Bid shall be sent to Bid at the following address:

NAME:	
ADDRESS:	
P.O. BOX:	
CITY:	
STATE:	
ZIP:	

8. The terms used in this BID, which are defined in the General Conditions (Section II), have the meanings assigned to them in the General Conditions.

SIGNATURE OF BIDDER:	 	
Contractor's License Number		
-		
License Expiration Date		

<u>If an Individual</u>

By		
	(signature of individual)	
doing busine	ess as	
Business ad	dress	
Phone No.		
Date		, 20
ATTEST	TITLE	
<u>a Partnership</u>		
By		
	(firm name)	
Business ad	(signature of general partner)	
Date		, 20
ATTEST	TITLE	
a Corporation		
By		
	(corporation name)	
Бу <u></u> (s	signature of authorized person) (title)	
Business ad	dress	
Phone No.		
Date		, 20
ATTEST	TITLE	
(Seal)		

If a Joint Venture	(Other p	oarty must sig	n below.)

By (name)

Contractor's License Number_____

License	Expiration	Date	

<u>If an Individual</u>

By		
	(signature of individual)	
doing business as _		
D		
Business address		
Phone No.		
Date		, 20
ATTEST	TITLE	

If a Partnership

By		
	(firm name)	
	(signature of general partner)	
Business address		
Phone No.		
Date		, 20
ATTEST	TITLE	

If a Corporation

By	
(corporation name)	
By	
(signature of authorized person)(title)	
Business address	
Phone No.	
Phone No	
Date	_, 20
ATTEST TITLE	
(Seal)	

EXHIBIT B – STANDARD FORM OF PERFORMANCE BOND

Date of Execution of this Bond	
Name and Address of	
Principal (Contractor)	
Name and Address	
of Surety	
Name and Address of	
Contracting Body	
Amount of Bond	
Contract	That certain contract by and between the Principal and the Contracting Body above named dated
	for

KNOW ALL MEN BY THESE PRESENTS, that we, the PRINCIPAL and SURETY above named, are held and firmly bound unto the above-named Contracting Body, hereinafter called the Contracting Body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGAITON IS SUCH, that whereas the Principal entered into a certain contract with the Contracting Body, identified as shown above and hereto attached;

NOW THEREFORE, if the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term of said contract and any extensions thereof that may be granted by the Contracting Body, with or without notice to the Surety, and during the life of any guaranty required under the contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of the contract that may hereafter be made, notice of which modifications to the Surety being hereby waived, then, this obligation to be void; otherwise, to remain in full force and virtue.

STANDARD FORM OF PERFORMANCE BOND: (Continued)

THIS PERFORMANCE BOND is made and given pursuant to the requirements and provisions of Section 129 of Chapter 143 of the General Statutes of North Carolina and pursuant to Article 3 of Chapter 44-A of the General Statutes of North Carolina, and each and every provision set forth and contained in Section 129 of Chapter 143 and in Article 3 of Chapter 44-A of the General Statutes of North Carolina is incorporated herein, made a part hereof, and deemed to be conclusively written into this Bond.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals as of the date indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned and representative, pursuant to authority of its governing body.

WITNESS

WIINESS:	Principal (Name of individual and trade name, partnership, corporation, or joint venture)
(Proprietorship or Partnership) Printed Name	_ BY(SEAL) Printed Name
	TITLE (Owner, Partner, Office held in corporation, joint venture)
ATTEST: (Corporation)	(Corporate Seal of Principal)
BY Printed Name TITLE (Corporation Secretary or Assistant Secretary Only) WITNESS:	
	Printed Name
	TITLE Attorney in Fact

(Corporate Seal of Surety)

(Address of Attorney in Fact)

EXHIBIT C – PROJECT SPECIAL PROVISIONS

Country Club Dr. Culvert Replacement Project No. 2021-043

- Contractor shall utilize the 2018 edition of NCDOT Standard Specifications & Standard Drawings for Roads and Structures, the City of Concord Technical Standards, and Water & Sewer Authority of Cabarrus County Technical Standard specifications, the most restrictive requirement shall apply unless otherwise noted. NCDOT Article Numbers in the Bid Form and these Project Special Provisions reference the NCDOT Standard Specifications for Roadways and Structures.
- 2) The Geotechnical Report is available in Appendix A. It should be noted that the data provided does not reflect the variations in subsurface conditions which could exist between test locations and/or unexplored areas of the site.
- 3) Culvert concrete headwalls will be furnished with the culvert units as shown in the project plans. The Contractor shall include all the costs associated with culvert headwalls in the culvert price.
- 4) Hours of work at between 7:00 am 6:00 pm; Monday through Friday.
- 5) Ingress and egress shall be maintained to all business and dwellings affected by the project. Contractor shall notify the adjacent property owners in writing a minimum of 72 hours in advance of construction at the work site. Driveway work shall be coordinated with the city inspector and the property owner(s).
- 6) The Contractor shall include in "Asphalt Plant Mix, Pavement Repair" price the cost of milling to tie into existing asphalt according to the Utility Cut Replacement Detail shown in the project plans.
- 7) The Contractor shall include the cost of any coordination and cooperation of utilities in his bid. No additional compensation shall be allowed for delays or inconvenience sustained by the Contractor due to utility relocation or adjustments. No additional payment will be made for remobilization required by the utility's failure to relocate a utility at the request of the Contractor.
- 8) The Contractor shall comply with the conditions established by the North Carolina Department of Environmental Quality in the 401 Water Quality Certification approval letter included in Appendix B, and by the USACE General Permit Verification letter included in Appendix C. All costs generated by this requirement shall be included in the Contractor's bid.
- 9) <u>Financial Responsibility, Sedimentation Pollution Control Act</u>: This project is subject to the "NC Department of Environmental Health and Natural Resources Sediment Pollution Control Act". The City will acquire the Erosion and Sedimentation Control Plan Letter of Approval. The Contractor, upon recommendation of award, shall complete Part B of the Financial Responsibility/Ownership form. The City will then transfer financial responsibility of the erosion control permit to the Contractor. The Contractor will be responsible for any fines levied for violation of the approved erosion control plan
- 10) <u>Notice of Intent</u> –The erosion and sedimentation control plan letter of approval requires that a Notice of Intent (NOI) form is submitted prior to the commencement of any land disturbing activity on the project. The Contractor shall complete and submit the NOI in https://edocs.deq.nc.gov/Forms/NCG01-NOI.

<u>SP-01 – TRAFFIC CONTROL</u>

1.0 DESCRIPTION

<u>Beginning Work and Street Closings</u>: The Contractor is responsible for notifying the Concord Department of Transportation for any work where the number of travel lanes is reduced from normal conditions.

The Contractor shall install advance warning signs for the Project. These signs shall be in place for one week before construction activity begins. The Contractor shall begin construction activity on a street on the scheduled date for the closing of the travel lane.

<u>Traffic Control Plan:</u> Traffic control will be performed by the Contractor based upon the Traffic Control Special Provisions. The Traffic Control Special Provisions may refer to plan sheets for major work items or details, or both.

All traffic control devices and procedures shall conform to the requirements of the current edition of the Federal Highway Administration (FHWA) *Manual on Uniform Traffic Control Devices* (MUTCD), the current edition of the North Carolina Department of Transportation (NCDOT) Supplement to the *Manual on Uniform Traffic Control Devices for Streets and Highways*, the NCDOT Roadway Standard Drawings and the current edition of the NCDOT Standard Specifications for Roads and Structures.

The Contractor shall maintain the traffic control as described herein unless the Contractor submits an alternate traffic control plan to the Engineer and it is approved by the Engineer. The Engineer may direct the Contractor to modify the traffic control if, in the Engineer's opinion, traffic is not moving safely or efficiently.

Traffic Control Phasing for this project shall be in accordance with the Traffic Control Plans. The Contractor shall adhere rigidly to these plans. The standards are the minimum required. Additional signs, cones, drums, barricades and warning devices may be used, but at no time will less than what is specified on the plans or in the standards be acceptable.

<u>Maintenance of Traffic:</u> The Contractor shall maintain all travel lanes in accordance with the Traffic Control Plan sheets.

In areas of drop-offs and low shoulders, the Contractor shall backfill up to the edge and elevation of the existing pavement.

The Contractor will be required to maintain ingress and egress to all businesses and dwellings, and easy access to fire hydrants.

The Contractor shall provide adequate drainage under driveways and within the Project area for the duration of the Project.

The Contractor shall mark all hazards within the Project limits with well-maintained signs, barricades, warning and/or channelizing devices.

<u>Traffic Control Devices</u>: The Contractor shall furnish, install, operate, relocate, maintain and remove all temporary traffic control devices necessary for controlling traffic in accordance with the Traffic Control Plans and standards. The Contractor shall notify Engineer regarding conflicting permanent signs. Only Concord Department of Transportation personnel shall install, remove or relocate any permanent signs within the right-of-way. All construction signs and barricades shall remain in place until the appropriate permanent signs and pavement markings are installed.

<u>Equipment and Material Storage</u>: During periods of construction inactivity, all construction materials and equipment shall be stored by the Contractor. The right-of-way or temporary project easement may be used for this purpose, but equipment and materials must be placed safely 10 or more feet away from any open travel lane. It is recommended that all construction equipment and materials be stored on private property, which is posted against trespassing. It is the responsibility of the organization performing the work to obtain the permission to use a property for this purpose.

Excavation and Trenches: Excavations and trenches that cannot be properly backfilled and patched prior to the end of the workday shall be secured.

2.0 MEASUREMENT

There will be no separate measurement made for Traffic Control.

3.0 PAYMENT

Traffic Control will be paid at the lump sum price for "Traffic Control". This payment will be full compensation for all elements of work required to complete the Project as specified.

Partial payments will be made as follows:

- 25% of the lump sum price on the first partial payment estimate made after any work has been performed on the item of "Traffic Control".
- 25% of the lump sum price on the first partial payment after work is 25% complete.
- 25% of the lump sum price on the first partial payment after work is 50% complete.
- 25% of the lump sum price on the first partial payment after work is 100% complete.

Payment will be made under:

TRAFFIC CONTROL..... LS

SP-02, COMPREHENSIVE GRADING

1.0 DESCRIPTION

This item shall include all elements of work covered by the referenced <u>NCDOT Specifications</u> and the numbered <u>Additional City Specifications</u> provided herein.

NCDOT Specifications

200, "Clearing and Grubbing"

- 225, "Roadway Excavation"
 235, "Embankments"
 240, "Ditch Excavation"
 250, "Removal of Existing Pavement"
 260, "Proof Rolling"
 340, "Pipe Removal"
 412, "Unclassified Structure Excavation"
 416, "Channel Excavation"
 500, "Fine Grading, Sub-grade, Shoulders and Ditches"
 545, "Incidental Stone Base"
 560, "Shoulder Construction"
 1530, "Abandon or Remove Utilities"
 1620, "Temporary Seeding"
- 1607, "Gravel Construction Entrance"

Additional City Specifications

1. <u>Clearing and Grubbing</u>: Clearing on this Project shall be performed to the slope stake line or the right-of-way or easement lines unless directed otherwise. Removal of trees and shrubs are to be minimized as much as possible. Contractor to avoid and minimize damage to those trees and shrubs determined to remain.

2. <u>Temporary Diversions for Erosion Control</u>: all labor and materials required for the construction, maintenance and removal of temporary diversions for erosion control, including liner and temporary seeding per plan requirements.

3. <u>Traffic Bearing Road Plates</u>: The Contractor shall be responsible for all traffic bearing road plates needed in accordance with NCDOT Utility Cut Replacement Detail.

4. <u>Mail Boxes and Site Amenities:</u> remove, protect, and reset mail boxes and site amenities. The Contractor shall keep mailboxes in service at all times and allow / provide for other services, including but not limited to trash pickup.

5. <u>Existing Road Signs:</u> remove, protect, and reset road signs. Repair or replace signs damaged in relocating. Erect signs and supports according to requirements of NCDOT Specifications 903 and 904.

6. <u>Removal and Disposal of Existing Infrastructure</u>: concrete curb, sidewalk, miscellaneous concrete, asphalt, driveways, pads, slabs, walls, culverts, structures, catch basins, manholes, etc. within the construction limits as shown on the plans and any additional infrastructure removal identified by the Contractor's means and methods shall be included in this item.

7. <u>Shoring</u>: The Contractor shall be responsible for all shoring to include means, methods, materials and engineering needed to construct the project.

8. <u>Saw Cutting</u>: all saw cutting required to build the Project. Where asphalt or concrete (curb, sidewalk, roadway, driveways, parking lots, etc.) is to be removed, the Contractor shall provide a

neat edge along the pavement being retained by sawing the pavement a minimum of 2" deep and 1' wide before breaking and removing adjacent pavement. When the Contractor proposes to saw pavement more than one foot from the proposed pavement (curb, sidewalk, structure, etc.), the Contractor shall obtain approval from the Engineer prior to saw cutting and removing pavement. The cost of sawing asphalt or concrete shall be included in this item.

9. <u>Tree and/or Stump Removal and Disposal</u>: as shown on the plans and any additional tree and/or stump removal identified by the Contractor's means and methods shall be included in this item. Trees to be removed shall be approved by the Engineer prior to removal.

10. <u>Water Meter / Sewer Clean Out Protection</u>: all labor and materials required to protect, and replace if necessary, impacted water meters and sewer clean outs in the work area.

11. <u>Utility Pipe/Conduit Removal and Disposal</u>: existing public or private utility pipe / conduit, subsurface and shoulder drain pipe removal and disposal as shown on the plans and any additional utility pipe / conduit removal identified by the Contractor's means and methods shall be included in this item.

12. <u>Stream restoration to preconstruction conditions</u>: Stream areas impacted by the pump around operation, temporary access road or any other contractor's means and methods, shall be returned to natural conditions within 60 calendar days after the temporary impact is no longer necessary. The impacted areas shall be restored to original grade, including each stream's original cross-sectional dimensions, platform pattern, and longitudinal profile.

13. <u>Reinstate Waterline Gravel Access to preconstruction conditions:</u> all labor and materials required to reinstate the existing waterline gravel access to preconstruction conditions.

14. <u>Property Access</u>: all labor and materials required to maintain access to properties during construction as directed by the Engineer.

15. <u>Notice of Intent</u> – The Contractor shall complete and submit the Notice of Intent (NOI) form prior to the commencement of any land disturbing activity on the project. The Contractor shall pay the cost of the \$100 fee for issuance of the NPDES Stormwater General Permit.

Flowable Fill for Storm Pipe Abandonment is not included in this Special Provision and shall be paid for in SP-15.

2.0 MEASUREMENT

There will be no separate measurement made for Comprehensive Grading.

3.0 PAYMENT

For the above-referenced NCDOT sections and numbered Additional City Specifications, there will be no direct measurement, payment or compensation, all cost incurred to complete the work as specified shall be included in the Lump Sum price bid for "Comprehensive Grading".

There will be **<u>no separate measurement or payment</u>** for the items listed or referenced in this specification.

Payment will be made under:

COMPREHENSIVE GRADING LS

SP-03, SELECT MATERIAL

1.0 DESCRIPTION

Work covered in this special provision consists of furnishing, placing, and compacting select material as shown on the plans or as directed.

Select material shall be placed in pipe culvert excavations within the existing or proposed roadway, including beneath the proposed curb and gutter, or as directed. The Engineer will determine the amount and location of select material to be used on the project. The Contractor shall not remove material from the project without approval from the Engineer.

2.0 MATERIALS

Select material shall meet the requirements of NCDOT Standard Specifications for Roads and Structures, Select Material, Class III, Type 2 (Section 1016-3), or other approved classes or materials as directed.

With written approval and without additional compensation, a higher class of material may be substituted than stated in the Contract Documents.

3.0 MEASUREMENT AND PAYMENT

There will be no separate measurement or payment for select bedding and select backfill material required in the installation of pipe as illustrated in NCDOT 300.01. All bedding and select backfill material required in the installation of the pipe as illustrated in NCDOT 300.01 will be included in cost of the installed pipe.

When local material meeting the requirements for suitable materials as defined in the *Earthwork, Excavation, Unsuitable Materials, and Backfill Materials* Special Provision is approved for use by the Engineer, there will be no separate measurement or payment for the local suitable material incorporated into the completed and accepted Project. The cost to furnish, haul, place and compact local suitable material that meets the requirements will be included in the lump sum price bid for SP-02 *Comprehensive Grading* (a special provision and pay item in this contract).

When other than local material meeting the requirement for select material is used, the quantity of select material for backfill shall be measured by weighing material in trucks in accordance with section 106-7 Scales and Public Weighmaster, as determined by the Engineer. At the Engineer's

discretion, truck measurement in accordance with Article 230-5 (B) may be used instead of weighing material in trucks. A unit weight of 135 lb/cf will be used to convert the weight of select material to tons.

The contract unit prices for *Select Material* as described above will be full compensation for furnishing, transporting, handling, placing, compacting, and maintaining select material. Unless otherwise directed by the Engineer, there will be no separate payment for select material above the select bedding and backfill materials included in the cost of the installed pipe culvert, which exceeds the following extents:

Storm Drainage

- Pipe
 - Horizontally the outer diameter of the pipe plus three feet;
 - Vertically from the top of the select backfill material to the ground line, as illustrated in NCDOT 300.01
- Box Culverts/Bends/Bottomless Culverts
 - Horizontally outer width of culvert or footer plus six feet (three feet each side);
 - Vertically from the top of the bedding material or bottom of the structure to the ground line, as illustrated in Figure 2.1 of the *Precast Reinforced Concrete Culvert* Special Provision;

Structures

(Includes but not limited to: headwalls, drainage structures (catch basins, drop inlets, risers, etc.), flared end sections, retaining walls, etc.)

- Vertically to the ground line elevation as shown on the plans or details;
- Horizontally two (2) feet from each exterior surface (outer wall of the structure or footer whichever is further)

Material used for the Contractor's means and methods outside of these trench limits shall meet the material requirement and will be at the Contractor's expense.

Do not use *Select Material* until all local material meeting the requirements of suitable material as defined in the *Earthwork, Excavation, Unsuitable Materials, and Backfill Materials* Special Provision has been incorporated into the Project. If the Contractor brings select material onto the Project for its own convenience, that material will not be measured or paid for as *Select Material*.

Payment will be made under:

SELECT MATERIAL.....TN

SP-04, BORROW EXCAVATION

1.0 DESCRIPTION

The work covered in this special provision includes all elements of work covered in section 230 "Borrow Excavation" of the Standard Specifications with the following exception pertaining to payment.

2.0 MEASUREMENT

Measurement shall be made in accordance with the Standard Specifications, Section 230-5(A) In-Place Measurement or Section 230-5(B) Truck Measurement as directed by the Engineer.

3.0 PAYMENT

The quantity of Borrow Excavation, measured as provided above, will be paid for at the contract unit price per cubic yard for *Borrow Excavation*. When Borrow Excavation is used to replace soil that has been determined to be unsuitable by the Engineering Department due to moisture, poor soil composition, or other factors, the contract unit price for Borrow Excavation shall include all excavation, removal from site, and proper disposal of unsuitable soil.

The contract unit price for *Borrow Excavation* as described above will be full compensation for furnishing, transporting, handling, placing, compacting, and maintaining borrow material. Unless otherwise directed by the Engineer, there will be no separate payment for borrow material above the select bedding and backfill materials included in the cost of the installed pipe, which exceeds the following extents:

Storm Drainage

- Pipe
 - Horizontally the outer diameter of the pipe plus three feet;
 - Vertically from the top of the select backfill material to the ground line, as illustrated in NCDOT 300.01;
- Box Culverts/Bends/Bottomless Culverts
 - Horizontally outer width of culvert or footer plus six feet (three feet each side);
 - Vertically from the top of the bedding material or bottom of the structure to the ground line, as illustrated in Figure 2.1 of the *Precast Reinforced Concrete Culvert* Special Provision;

Structures

(Includes but not limited to: headwalls, drainage structures (catch basins, drop inlets, risers, etc.), flared end sections, retaining walls, etc.)

- Vertically to the ground line elevation as shown on the plans or details;
- Horizontally two (2) feet from each exterior surface (outer wall of the structure or footer whichever is further)

Material used for the contractor's means and methods outside of these trench limits shall meet the material requirement and will be at the contractor's expense.

Payment will be made under:

BORROW EXCAVATIONCY

SP-05, ROCK REMOVAL

1.0 DESCRIPTION

Work covered by this special provision consists of the removal and disposal of rock encountered within the construction limits.

2.0 CONSTRUCTION METHODS

Rock shall be defined as any subsurface material (except foundations and pavements) which cannot be excavated by a backhoe, or track hoe which is capable of producing 25,000 pounds of curling force.

When rock is encountered, the Engineer shall be notified to:

- verify that the material cannot be removed as defined above or incorporated into the project feature
- determine the measurement limits

Removal methods include, but are not limited to, drilling, pneumatic hammering, blasting, etc. or as directed by the Engineer.

Blasting shall be performed as specified in Article 220-3 of the Standard Specifications.

Disposal shall be in accordance with Section 802 in the Standard Specifications.

3.0 MEASUREMENT

The quantity of rock removal to be paid for will be the actual number of cubic yards of rock, measured in its original position and computed by the average end area method, which has been removed and disposed of.

Measurements for the determination of actual quantities of rock removed shall be computed as described below or as directed by the Engineer:

Storm Drainage

- Pipe
 - Horizontally as illustrated in NCDOT 300.01;
 - Lower Limit as illustrated in NCDOT 300.01
- Box Culverts/Bends/Bottomless Culverts
 - Horizontally outer width of culvert or footer plus six (6) feet (3 feet each side);
 - \circ Lower Limit one (1) foot below the bottom of the barrel or footing;

Channels

- Two (2) feet below the finished grade or;
- Stream/channel structures as directed by the Engineer.

Ponds

- Below normal pool to finished grade;
- Above normal pool two (2) feet below finished grade;

Structures

(Includes but not limited to: headwalls, drainage structures (catch basins, drop inlets, risers, etc.), rip rap aprons, flared end sections, retaining walls, etc.)

- To the subgrade elevation as shown on the plans or details;
- Horizontally two (2) feet from each exterior surface (outer wall of the structure or footer; boulder or rip rap extents, as approved for stream structures and rip rap aprons)

Roadways, Yards, Etc.

• Two (2) feet below finished grade;

There will be no measurement of quantities of rock removed beyond these limits. Where the Engineer makes a recommendation for incorporating the encountered rock material into the project feature, there shall be no separate payment for incorporating the in situ rock into the project feature.

4.0 PAYMENT

The quantity of rock removal, measured as provided above, will be paid for at the contract unit price per cubic yard for "Rock Removal." Such payment will be full compensation for all work covered by this special provision including but not limited to drilling, pneumatic hammering, blasting (including complying with Article 220-3 of the Standard Specifications), excavating, and disposing of rock encountered within the pay limits of the project.

Payment will be made under:

ROCK REMOVAL CY

<u>SP-06, EARTHWORK, EXCAVATION, UNSUITABLE MATERIALS, AND BACKFILL</u> <u>MATERIALS</u>

1.0 **DESCRIPTION**

Earthwork shall be performed to the lines and grades indicated on the plans. The work shall include excavation, furnishing, placement, compaction, and satisfactory disposal of all materials encountered within the limits of the Work necessary for the construction of the Project.

All excavated materials that are not required for the Project or are unsuitable for fills shall be considered as waste and shall be hauled off the site at the Contractor's expense.

The Contractor shall be responsible for all borrow material required to construct the Project as shown on the plans.

2.0 MATERIALS

Provide bedding material in accordance with Article 1016-3 for Class II, Type 1 or Class III, Type 1 or Type 2 select material.

Provide backfill material in accordance with Article 1016-3 for Class II, (Type 1 for flexible pipe) or Class III select material.

Provide foundation conditioning material in accordance with Article 1016-3 for Class V or VI select material.

Provide foundation conditioning geotextile in accordance with Article 1056-2 for Type 2 geotextile.

Provide borrow material in accordance with Article 1018.

3.0 MEASUREMENT AND PAYMENT

There will be no direct payment for earthwork, excavation, unsuitable materials, and backfill materials described in this special provision. Payment will be made at the contract unit prices for the various items covered by sections 226 *Undercut Excavation*, 300 *Pipe Installation*, 305 *Drainage Pipe*, 310 *Pipe Culverts*, SP-02 *Comprehensive Grading*, SP-03 *Select Material*, and SP-04 *Borrow Excavation*.

(A) Unsuitable Material

Unsuitable material shall be defined as any and all unsuitable materials regardless of its nature. Unsuitable Material not incorporated into the Project shall be removed, hauled, and disposed by the Contractor only as authorized by the Engineer. Stockpiled Unsuitable Material shall be disposed of no less than once per week.

Proposed Project Subgrade, other than Pipe Culvert Trench Subgrade

Unsuitable material *below* the proposed project sub-grade, including but not limited to below the invert of an open channel or bottom of detention facilities, shall be removed, measured, hauled, disposed of, replaced, and paid for under NCDOT Section 226 *Undercut Excavation*. Unsuitable material *above* the proposed project sub-grade shall be removed, hauled, and disposed of at no additional cost to the City.

Proposed Pipe Culvert Trench Subgrade

Unsuitable material *below* the proposed project pipe culvert trench subgrade within the approved trench excavation limits for storm drainage pipe and storm drainage culvert (including but not limited to box culverts, oval pipe culverts and three-sided culverts/bridges) shall be removed, measured, hauled, disposed of, replaced, and paid for in accordance with Section 300-9 (B) *Foundation Conditioning Material* and Section 300-9 (C) *Foundation Conditioning Geotextile*.

Unsuitable material *above* the proposed pipe culvert trench sub-grade shall be removed, hauled, disposed of at no additional cost to the City.

(B) Bedding and Backfill

• Pipe (including round, elliptical, etc.)

- There will be no separate measurement or payment for select bedding and select backfill material required in the installation of pipe as illustrated in NCDOT 300.01. All bedding and select backfill material will be included in cost of the installed pipe.
- Culvert (Box Culverts/Bends/Bottomless Culverts)
 - There will be no separate measurement or payment for bedding required in the installation of culverts as illustrated in Figure 2.1 of the *Precast Reinforced Concrete Culvert* Special Provision or as shown on the plans. All bedding material will be included in cost of the installed pipe or culvert.
 - Material needed for buried culvert inverts and channel inverts inside three-sided bridge/culverts shall be incidental to the cost of the culvert unless otherwise directed by the Engineer.

When local material meeting the requirements for the select bedding and backfill is approved for use by the Engineer, no deductions in the cost of pipe culvert will be made. Local material is defined as material generated on the project site or within the project limits.

Within the Existing or Proposed Roadway

- Pipe (including round, elliptical, etc.)
 - For pipe located within the existing or proposed roadway, including beneath the proposed curb and gutter or between road ditch lines, the Contractor shall use suitable material from the elevation of the select backfill material included in the cost of the installed pipe to the subgrade.
- Culvert (Box Culverts/Bends/Bottomless Culverts)
 - For culverts located within the existing or proposed roadway, including beneath the proposed curb and gutter or between road ditch lines, the Contractor shall use suitable material from the elevation of the bedding included in the cost of the installed culvert to the subgrade.

When local material meeting the requirements for suitable material is approved for use by the Engineer, there will be no separate measurement or payment for the material incorporated into the completed and accepted Project.

Suitable material shall be defined as material meeting both:

- Unified Soil Classification System (USCS) designation of GW, GP, GM, GC, SW, SP, SM, or SC and
- American Association State Highway Transportation Official (AASHTO) Soil Classification System designation of A-1, A-3, A-2-4, or A-2-5.

When local suitable material is not available to complete the backfill of the trench, the Contractor shall use select material in accordance with SP-03 *Select Material*.

Do not use *Select Material* until all local suitable material has been incorporated into the Project. There shall be no measurement or payment made for *Select Material* brought to the site at the Contractor's convenience.

Outside of the Proposed or Existing Roadway

- Pipe (including round, elliptical, etc.)
 - For pipe located outside the existing or proposed roadway, the Contractor shall use local suitable material from the elevation of the select backfill material included in the cost of the installed pipe to the finished grade or subgrade.
- Culvert (Box Culverts/Bends/Bottomless Culverts)
 - For culverts located outside the existing or proposed roadway, the Contractor shall use local suitable material from the elevation of the bedding included in the cost of the installed culvert to the finished grade or subgrade.

When local suitable material is not available to complete the backfill of the trench, the Contractor shall use borrow material in accordance with SP-04, *Borrow Excavation*.

Do not use *Borrow Excavation* material until all local suitable material has been incorporated into the Project. There shall be no measurement or payment made for borrow excavation material brought to the site at the Contractor's convenience.

When local suitable material is not available to complete the backfill of the trench, the Contractor shall use select material in accordance with SP-03, *Select Material*.

Do not use *Select Material* until all local suitable material has been incorporated into the Project. There shall be no measurement or payment made for select material brought to the site at the Contractor's convenience.

(C) Other

No separate measurement or payment will be made for any other excavation, furnishing, placement, compaction or satisfactory disposal of material encountered within the limits of Work necessary for construction of the Project. All other earthwork shall be considered incidental to the Project and paid for in *Comprehensive Grading*, unless noted elsewhere in the Contract Documents.

SP-07, PRECAST REINFORCED CONCRETE CULVERT

Description

Work covered by this special provision consists of installation of a precast reinforced concrete culvert or arch culvert (culvert), in accordance with the plans and specifications at locations shown on the plans. The work shall also include the construction of such joints and connections to other culverts, pipes, drainage structures, and steps as may be necessary to complete the work shown on the plans.

Materials and Construction Methods

Installation of the culvert shall conform to Section 414 of the NCDOT Standard Specifications as well as any requirements of this provision. Backfill shall be as specified in the *Earthwork*, *Excavation, Unsuitable Materials, and Backfill Materials* Special Provision.

Design and Manufacture

Culvert sections shall conform to ASTM C-1577 or the latest edition of the AASHTO LRFD Bridge Design Specifications. Provide a precast culvert that meets the requirements of Section 1077 and any other applicable parts of the Standard Specifications.

The concrete mixture shall meet the requirements for Single Cell Box Sections shown in Table 1077-1 in Section 1077 of the NCDOT Standard Specifications. Movement of the precast sections should be minimized during the initial curing period. Any damage caused by moving or handling during the initial curing phase will be grounds for rejection of that precast section. Air entrain the concrete in accordance with Section 1077 - 5(A) of the NCDOT Standard Specifications. For dry cast manufacturing, air entrainment is not required.

Handling devices or holes are permitted in each culvert section for the purpose of handling and laying. Submit details of handling devices or holes for approval and do not cast any concrete until approval is granted. Remove all handling devices flush with concrete surfaces as directed. Fill holes in a neat and workmanlike manner with an approved non-metallic non-shrink grout, concrete, or hole plug.

Each culvert section shall be checked at the plant for fitment and numbered which shall correspond to the laying schedule.

Concrete sills to hold invert fill material shall be furnished with the culvert end units.

All openings shown on the plans in the culvert shall be formed during the manufacturing process.

Culvert minimum waterway area shown on the plans shall be verified with the manufacturer for the culvert sizes due to manufacturing differences.

<u>Joints</u>

Produce the precast reinforced concrete culvert section with tongue and groove ends. Design and form these ends of the culvert section so, when the sections are laid together, they make a continuous line of culvert sections with a smooth interior free of appreciable irregularities in the flowline. The internal joint formed at the tongue and groove ends of the precast units shall be sealed with either bitumen/butyl sealant or closed-cell neoprene material conforming to ASTM C990 or C1677. The internal joint material shall be installed in accordance with the manufacturer's recommendations. The material shall be shown on the shop drawings when they are submitted for review.

Seal the external joint with an outside sealer wrap conforming to ASTM C877 that is at least 12 inches wide and covers the joint on both the sides and the top of the box section. Use ConWrap CS-212 from Concrete Sealants, Inc., EZ-Wrap from Press-Seal Gasket Corporation, Seal Wrap from Mar-Mac Manufacturing Co., Inc., Cadilloc External Pipe Joint from Cadilloc, or an approved

equal for the outside sealer wrap. If the outside sealer wrap is not applied in a continuous strip along the entire joint, a 12 inch minimum lap of the outside sealer wrap is permitted. Before placing the outside sealer wrap, clean and prime the area receiving the outside sealer wrap in accordance with the sealer wrap manufacturer recommendations. The joint wrap manufacturer installation recommendations shall be included with shop drawings submitted for review.

Cover the external joint sealer with a 3 foot strip of filter fabric conforming to Type 4 requirements in Section 1056 of the Standard Specifications.

Installation

Ensure that equipment of the correct lifting capacity is available to install precast concrete units. Site conditions must be checked well in advance of shipping to ensure proper equipment location and to avoid any lifting restrictions. The lift anchors or holes provided in each section are only means to lift the elements unless otherwise approved by manufacturer.

In no case shall equipment operating in excess of the design load be permitted over the culvert units unless otherwise approved by manufacturer.

No construction equipment shall cross the bare precast concrete unit. The contractor shall refer to the Manufacturers specifications for additional restrictions.

No backfill shall be placed against any structural elements until they have been approved by the Engineer. Complete backfill in accordance with Sections 410-8 and 414-7 of the NCDOT Standard Specifications, Manufacturer's Specifications, and as specified in the *Earthwork, Excavation, Unsuitable Materials, and Backfill Materials* Special Provision. Sections 410-10 and 414-9 of the NCDOT Standard Specifications do not apply.

Bedding for precast culvert shall meet the requirements of Section 410 and 414 of the NCDOT Standard Specifications. Excavate **24 inches** below the bottom of barrel and footings and backfill with Class VI select material in accordance with Section 1016 of the NCDOT Standard Specifications or as shown on the plans. Bedding shall extend **24 inches** outside of the culvert or footings. In addition, bedding material shall be placed on filter fabric conforming to Type 4 requirements in Section 1056 of the NCDOT Standard Specifications. The filter fabric shall be placed perpendicular to the culvert barrel a with the geotextile wrapped up and around the conditioning material to fully encapsulated it. Perpendicular sections of fabric shall be continuous. A minimum lap of 2 feet shall be provided between sections of fabric.

- a) Culvert sections shall be placed at the beginning of the outlet end of the culvert with the groove end being laid upgrade. Tongue sections shall be laid into the groove sections. Positive means shall be provided to pull each section firmly into the previously placed section so that the joints are tightly homed. Use a "come-along", box pullers or other approved methods to create a positive means of joining box sections. Construction equipment shall not have direct contact with the culvert section. The load of the culvert sections shall be suspended by a lifting device during joining procedure.
- b) Place multiple, parallel lines of a culvert such that the separation between the lines of culvert has a minimum width of 3 inches. Fill the separation between multiple

lines of culvert with non-excavatable flowable fill. Use flowable fill that meets the requirements listed in Section 1000 of the NCDOT Standard Specifications except that Field Compressive Strength Specimens are not required. Other fill materials may be used if approved by the Engineer.

Invert Fill Material (as needed)

- a) The culvert shall be filled with native soil as shown on the plans and details. Native material consists of material that is excavated from the stream bed or floodplain at the project site during culvert construction. Only material that is excavated from the stream bed may be used to line the low flow channel or culvert barrel. Rip rap may be used to supplement the native material. If rip rap is used, native material shall be placed on top to fill voids and provide a flat surface for animal passage. Native material is subject to approval by the Engineer and may be subject to permit conditions. If native material is not available, the Engineer shall approve an alternate source of material.
- b) The material shall be compacted as little as possible but firm enough to walk on without leaving footprints.

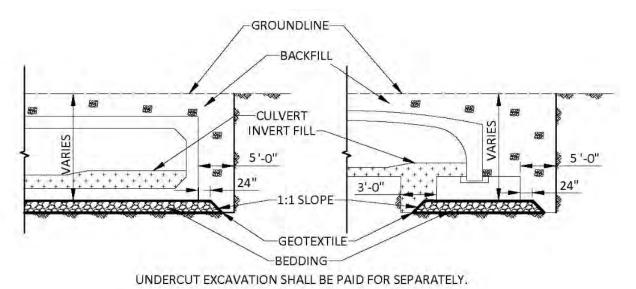


Figure 2.1 – Precast Reinforced Concrete Culvert Typical Section

Submittals

The designs of the precast culverts are the responsibility of the Contractor and are subject to review, comments, and approval. Submit two sets of detailed plans for review. Include all details in the plans, including the size and spacing of the required reinforcement necessary to build the precast culverts and the laying schedule. A North Carolina Registered Professional Engineer shall seal the plans and design calculations. The shop drawings must show the proposed openings (top and sides) and reinforcing for pipe connections, structure openings, and precast holes for steps.

The Contractor shall submit the manufacturer's certification for the culvert sections and those products to be used in the installation.

All submittals shall be made a minimum of two weeks prior to construction or placing an order for materials for review by the Engineer.

Measurement

The quantity of precast reinforced concrete culvert to be paid for will be the actual number of linear feet of culvert which has been installed and accepted. Measurement will be made horizontally along the centerline of the installed culvert. Measurement will not be made across precast bends or other drainage structures.

Payment

Payment for all work covered by this special provision will be made at the contract unit price per linear foot for "Precast Reinforced Concrete Culvert". Such payment will be full compensation for all work covered by this special provision including, but not limited to, furnishing all labor, materials, filter fabric, equipment, excavating, bedding, invert fill material, concrete sill, grout, installing culvert, constructing joints and connections, furnishing project submittals and other incidentals necessary to complete this work. There shall be no separate payment for Culvert Excavation, filter fabric, bedding, or any other items required by Section 410 (Articles 1-6 and 9) or 414 (Articles 1-5 and 8) of the NCDOT Standard Specifications. Backfill shall be as specified in the Earthwork, Excavation, Unsuitable Materials, and Backfill Materials special provision. Sections 410-10 and 414-9 of the NCDOT Standard Specifications do not apply.

Payment will be made under:

12' x 11' PRECAST R. C. CULVERTLF

SP-08, PRECAST MODULAR BLOCK GRAVITY RETAINING WALL

1.0 DESCRIPTION

The work covered by this special provision includes furnishing and constructing a modular concrete block gravity retaining wall system comprised of a mortar-less, interlocking masonry concrete units. The system shall not require geosynthetic reinforcement for soil stability. The system should allow for curves, straight walls, terraces, near vertical or battered wall face, and/or 90 degree bends. The retaining walls shall be in accordance with the manufacturer's specifications, and the provisions of these specifications.

2.0 MATERIALS

Precast modular blocks shall be Stone Strong units.

All concrete units and any other necessary materials shall be installed in accordance with the manufacture's specifications and the submitted shop drawings.

Bedding for precast culvert shall meet the requirements of Section 410 and 412 of the NCDOT Standard Specifications. Excavate **24 inches** below the bottom block and backfill with Class VI select material in accordance with Section 1016 of the NCDOT Standard Specifications or as shown on the plans. Bedding shall extend **24 inches** outside of the wall units. In addition, bedding material shall be placed on filter fabric conforming to Type 4 requirements in Section 1056 of the NCDOT Standard Specifications. The filter fabric shall be wrapped up and around the conditioning material to fully encapsulated it. Perpendicular sections of fabric shall be continuous. A minimum lap of 2 feet shall be provided between sections of fabric.

3.0 SUBMITTALS

The Contractor shall submit style, color and appearance for review by the City of Concord.

Prior to fabrication, the Contractor shall submit shop drawings for the Precast Modular Block Gravity Retaining Wall, including information necessary for installation. The shop drawings must show the proposed load calculations and any proposed fabric reinforcing.

The shop drawings must be signed and sealed by a Professional Engineer registered in the State of North Carolina.

The Contractor will also submit the manufacturer's certification for the Precast Modular Block Gravity Retaining Wall units and those products to be used in the installation.

4.0 CONSTRUCTION METHODS

The modular block wall shall be constructed per manufacture's specifications and in accordance with the plans and details.

5.0 MEASUREMENT

The quantity of gravity precast modular block retaining walls to be paid for will be the actual square footage of wall, measured along the front surface of the wall from the top of the leveling pad or footer to the top of the wall cap, which has been installed and accepted.

If the lower courses must be backfilled before the wall can be completed, the contractor shall coordinate with the city's inspector to measure and record this quantity for payment before backfilling.

There will be no measurement of leveling stone, backfill, or filter fabric, or other items needed for wall construction.

6.0 PAYMENT

The quantity of Precast Modular Block Gravity Retaining Wall, measured as provided above, will be paid for at the contract unit price per square foot for "Precast Modular Block Gravity Retaining Wall". Such payment will be full compensation for all work covered by this special provision including but not limited to excavating, constructing foundation, furnishing and constructing

modular block retaining wall including leveling stone, backfill; drainage system and any incidental items necessary to construct the work as shown on the plans, the manufacturers specifications, and the provisions of these specifications.

Payment will be made under:

PRECAST MODULAR BLOCK GRAVITY RETAINING WALL SF

SP-09, NON-STANDARD STRUCTURES

1.0 DESCRIPTION

The work covered by this special provision applies to non-standard endwalls, non-standard toewalls and non-standard drainage structures.

2.0 CONSTRUCTION METHODS AND MATERIALS

Work shall be in accordance with Section 414 *Box Culvert Excavation*, Section 420 *Concrete Structures*, Section 425 *Fabricating and Placing Reinforcement*, Section 830 *Brick Masonry Construction*, and Section 1040 *Masonry* of the NCDOT Standard Specifications. There will be an exception made to the articles of each referenced section for the measurement and payment and backfill materials.

Install 6" bedding #57 stone beneath all structures and drainage column behind endwalls.

Use cast in place concrete, brick masonry, block masonry or precast concrete construction as shown on the plans.

Concrete for the structure shall be Class A, as per the Standard Specification Section 1000 except that the minimum compressive strength at 28 days shall be 3,600 psi. Fill concrete indicated on the plans shall be class A or B as described in Section 1000 *Portland Cement Concrete Production and Delivery* of the NCDOT Standard Specifications.

Materials shall be as shown on the plans or described in Article 838-2 and 840-2 *Materials* of the NCDOT Standard Specifications.

Methods shall be as described in Article 838-3 and 840-3 *Construction Methods* of the NCDOT Standard Specifications.

Bottomless structures (i.e. catch basin chimneys, etc.) shall be attached to the base structure or culvert as shown on the plans. (If applicable)

3.0 SUBMITTALS (If applicable)

For all Non-Standard Structures, the Contractor shall submit the manufacturer's certification and shop drawings for the Non-Standard Structures and those products to be used in the installation.

When a designed structure is not provided in the contract documents, the Contractor shall be responsible for the design of the Non-Standard Structures which are subject to review, comments, and approval. Submit two sets of detailed plans for review. Include all details in the submittal, including the size and spacing of the required reinforcement necessary to build the Non-Standard Structure. A North Carolina Registered Professional Engineer shall seal the submittal, which includes plans and design calculations. The submittal must show the proposed openings (top and sides) and reinforcing for pipe connections, structure openings, and precast holes for steps, if necessary.

All submittals shall be made a minimum of two weeks prior to construction or placing an order for materials for review by the Engineer.

4.0 MEASUREMENT AND PAYMENT

The quantity of non-standard endwalls, non-standard toewalls and non-standard drainage structures will be measured and paid for in accordance with sections 838-4 and 840-4 *Measurement and Payment*, of the NCDOT Standard Specifications.

The payment for all work covered by this special provision will be made at the contract unit price per cubic yard for "Non-Standard Endwalls", "Non-Standard Toewalls", and/or "Non-Standard Drainage Structures". Such payment will be full compensation for all elements of work required to construct the structures in accordance with the specifications including, but is not limited to furnishing labor, materials, excavation, stone bedding and drainage column; hauling; disposal of materials; transporting and placing concrete, brick masonry, precast units, mortar, grout, reinforcing steel, hardware, castings and miscellaneous metal; fabrication, welding, and galvanizing to construct cast in place concrete, brick masonry, block masonry or precast concrete walls, weepholes, catch basins, junction boxes, spring boxes, manholes, concrete aprons and other non-standard endwalls, non-standard toewalls and non-standard drainage structures, with all necessary steps, and other hardware, and connection of the structure.

Backfill will be made in accordance with the *Earthwork, Excavation, Unsuitable Materials, and Backfill Materials* Special Provision.

Fabricated steel and gray iron cast frames, grates, manhole rings and covers shall be measured and paid separately in accordance with the contract.

Payment will be made under:

NON-STANDARD ENDWALL	СҮ
NON-STANDARD TOEWALL	СҮ
NON-STANDARD DRAINAGE STRUCTURE	CY

SP-10, STREAM PUMP AROUND OPERATION

1.0 DESCRIPTION

Work under this section, includes all work necessary for the installation and maintenance of the pump around operation, and the stream restoration to preconstruction conditions. Work shall be performed in the dry by pumping stream base flow around project work areas for sediment and erosion control purposes as may be necessary or directed by the Engineer and to conform to the plans, specifications, details, permits, local laws, state laws and federal laws and the City of Concord's Ordinances, Policies and Standards Specifications where applicable.

The pump around shall provide a passageway for the normal stream flow through the work site. This pump around operation is for storm drainage work only and should not be considered for sanitary sewer bypass pumping.

2.0 METHODS AND MATERIALS

The measures and works shall include, but are not limited to, the following:

<u>Pump Around Operation</u> – A pump shall be used to convey the stream base flow around the work area during channel excavation, installation of structures, and stabilization. The pump well shall be cased and filter provided to prevent pumping of sediment fines. The intake for the drain mechanism upstream of the impervious dike should be located near the top of the water column unless otherwise specified by the City. Impervious dikes shall be installed at the upstream and downstream locations of the pump around operations. The size of pumps used shall be determined by the onsite contractor with approval from the Engineer. The pump includes temporary flexible hose in sufficient length to pump the water from the upstream side of the active working area to the downstream end. Pumps shall be silent or quiet rated (70 decibels at 25 feet). Water removed from the pond or excavated project site shall pass through a temporary stabilized outlet to be located upstream of the receiving stream unless otherwise noted.

<u>Dewatering Sediment Filter Bag Systems</u> – A special sediment removal device shall be used to filter pumped water from the excavated project site during construction. The quantity of sediment filter bag systems may be increased, decreased, or eliminated entirely at the direction of the on-site Engineer.

<u>Stream restoration to preconstruction conditions</u> - Stream areas impacted by the pump around operation shall be regraded to its preconstruction contours and revegetated with appropriate native species.

3.0 MEASUREMENT

No measurement will be made of any materials under this item. Impervious dikes, dewatering sediment filter bag systems and any grading and revegetating will be incidental to this item.

4.0 PAYMENT

The Pump Around Operation specified under this section consists of furnishing all labor, materials, equipment, supplies, supervision, tools, and performing all work necessary for maintaining baseflow downstream of stream, culverts, and pipes, and the installation, maintenance, removal of impervious dikes and dewatering sediment filter bag systems, regarding to original contours and

revegetating, in conjunction with stream restoration/stabilization construction and shall be paid for at the contract lump sum for *Pump Around Operation*.

Payment will be made under:

STREAM PUMP AROUND OPERATION.....LS

SP-11, IMPERVIOUS DIKE

The Contractor shall construct an impervious dike in such a manner as approved by the Engineer, including, but not limited to furnishing materials, construction, maintenance, and removal of an impervious dike for the purpose of preventing normal stream flow and dewatering a stream segment for construction operations. The impervious dike shall not permit seepage of water into the construction site.

1.0 SUBMITTALS

Prior to construction, the Contractor shall submit a detail illustrating the component materials and dimensions of the impervious dike. The impervious dike shall impound water to a depth range as shown on the impervious dike detail and shall minimize erosion and discharge of sediment in the event of overtopping.

2.0 METHODS

The impervious dike shall be constructed in locations as directed by the Engineer. Establish and maintain temporary drainage ditches and other diversions outside excavation limits to convey rain water and water removed from excavation to collecting or run-off areas. Do not use trench excavations as temporary drainage ditches.

The intake for the drain mechanism upstream of the impervious dike should be located near the top of the water column unless otherwise specified by the City. Water removed from the pond or excavated project site shall pass through a special stilling basin to be located upstream of the receiving stream unless otherwise noted.

3.0 MEASUREMENT

There will be no measurement made for *Impervious Dike*.

4.0 PAYMENT

No direct payment will be made for *Impervious Dike*. All work covered in this special provision, including, but not limited to furnishing all labor materials, construction, maintenance, and removal of the impervious dike will be incidental to the lump sum price for *Pump Around Operation*.

SP-12 – COIR FIBER MATTING

1.0 DESCRIPTION

Furnish material, install and maintain coir fiber mat in locations shown on the plans or in locations as directed. Work includes providing all materials, excavating and backfilling, and placing and securing coir fiber mat with stakes as directed.

2.0 MATERIALS

Item Coir Fiber Mat **Section** 1060-14

Anchors: Wooden stakes shall be used as anchors.

Provide hardwood stakes 12"- 24" long with a 2" x 2" nominal square cross section. One end of the stake must be sharpened or beveled to facilitate driving through the coir fiber mat and down into the underlying soil. The other end of the stake needs to have a 1"- 2" long head at the top with a 1"- 2" notch following to catch and secure the coir fiber mat.

3.0 CONSTRUCTION METHODS

Place the coir fiber mat immediately upon final grading. Provide a smooth soil surface free from stones, clods, or debris that will prevent the contact of the mat with the soil. Unroll the mat and apply without stretching such that it will lie smoothly but loosely on the soil surface.

For stream relocation applications, take care to preserve the required line, grade, and cross section of the area covered. Bury the top slope end of each piece of mat in a narrow trench at least 6 in. deep and tamp firmly. Where one roll of matting ends and a second roll begins, overlap the end of the upper roll over the buried end of the second roll so there is a 6 in. overlap. Construct check trenches at least 12 in. deep every 50 ft. longitudinally along the edges of the mat or as directed. Fold over and bury mat to the full depth of the trench, close and tamp firmly. Overlap mat at least 6 in. where 2 or more widths of mat are installed side by side.

Place anchors across the mat at the ends approximately 1 ft. apart. Place anchors along the outer edges and down the center of the mat 3 ft. apart.

Adjustments in the trenching or anchoring requirements to fit individual site conditions may be required.

4.0 MEASUREMENT AND PAYMENT

Coir Fiber Mat will be measured and paid for as the actual number of square yards measured along the surface of the ground over which coir fiber mat is installed and accepted.

No measurement will be made for anchor items.

Payment will be made under:

Pay Item Coir Fiber Mat Pay Unit Square Yard

SP-13, STORM DRAIN INLET PROTECTION:

1.0 DESCRIPTION

The Work covered in this section consists of installing storm drain inlet protection as necessary help reduce the effects of soil erosion and to retain sediment.

2.0 INSPECTION AND MAINTENANCE OF SEDIMENT TUBES

Inspect filter sacks after installation to ensure that no gaps exist under the filter sack and the rim of structure.

Inspect filter sacks every seven (7) days. Repair any damage to filter sack or replace per engineer request.

Remove sediment deposits that impair the filtration capability of a filter sack when the sediment reaches sediment capacity line on filter. Remove and/or replace installed filter sacks as required to adapt to changing construction site conditions.

3.0 MEASUREMENT AND PAYMENT

The quantity of "Filter Sack Inlet Protection" is to be paid for per each filter sack installed and accepted. All work consisting of, but not limited to, purchases, storing, and installing the filter sack and all material, time, and labor costs associated will be considered incidental to the work.

Payment will be made under:

STORM DRAIN INLET PROTECTION EA

SP-14, SAFETY FENCE AND JURISDICTIONAL FLAGGING:

1.0 DESCRIPTION

Safety Fence shall consist of furnishing materials, installing and maintaining polyethylene or polypropylene fence along the outside riparian buffer, wetland, or water boundary, or other boundaries located within the construction corridor to mark the areas that have been approved to infringe within the buffer, wetland, endangered vegetation, culturally sensitive areas or water. The fence shall be installed prior to any land disturbing activities.

Interior boundaries for jurisdictional areas noted above shall be delineated by stakes and highly visible flagging.

Jurisdictional boundaries at staging areas, waste sites, or borrow pits, whether considered outside or interior boundaries shall be delineated by stakes and highly visible flagging.

2.0 MATERIALS

(A) Safety Fencing

Polyethylene or polypropylene fence shall be a highly visible preconstructed safety fence approved by the Engineer. The fence material shall have an ultraviolet coating.

Either wood posts or steel posts may be used. Wood posts shall be hardwood with a wedge or pencil tip at one end, and shall be at least 5 ft. in length with a minimum nominal 2" x 2" cross section. Steel posts shall be at least 5 ft. in length, and have a minimum weight of 0.85 lb/ft of length.

(B) Boundary Flagging

Wooden stakes shall be 4 feet in length with a minimum nominal 3/4" x 1-3/4" cross section. The flagging shall be at least 1" in width. The flagging material shall be vinyl and shall be orange in color and highly visible.

3.0 CONSTRUCTION METHODS

No additional clearing and grubbing is anticipated for the installation of this fence. The fence shall be erected to conform to the general contour of the ground.

(A) Safety Fencing

Posts shall be set at a maximum spacing of 10 ft., maintained in a vertical position and hand set or set with a post driver. Posts shall be installed a minimum of 2 ft. into the ground. If hand set, all backfill material shall be thoroughly tamped. Wood posts may be sharpened to a dull point if power driven. Posts damaged by power driving shall be removed and replaced prior to final acceptance. The tops of all wood posts shall be cut at a 30-degree angle. The wood posts may, at the option of the Contractor, be cut at this angle either before or after the posts are erected.

The fence geotextile shall be attached to the wood posts with one 2" galvanized wire staple across each cable or to the steel posts with wire or other acceptable means.

Place construction stakes to establish the location of the safety fence in accordance with Article 105-9 or Article 801-1 of the *Standard Specifications*. No direct pay will be made for the staking of the safety fence. All stakeouts for safety fence shall be considered incidental to the work being paid for as "Construction Surveying", except that where there is no pay item for construction surveying, all safety fence stakeout will be performed by state forces.

The Contractor shall be required to maintain the safety fence in a satisfactory condition for the duration of the project as determined by the Engineer.

(B) Boundary Flagging

Boundary flagging delineation of interior boundaries shall consist of wooden stakes on 25 feet maximum intervals with highly visible orange flagging attached. Stakes shall be installed a minimum of 6" into the ground. Interior boundaries may be staked on a tangent that runs parallel to buffer but must not encroach on the buffer at any location. Interior boundaries of hand clearing shall be identified with a different colored flagging to distinguish it from mechanized clearing.

Boundary flagging delineation of interior boundaries will be placed in accordance with Article 105-9 or Article 801-1 of the *Standard Specifications*. No direct pay will be made for delineation of the interior boundaries. This delineation will be considered incidental to the work being paid for as *Construction Surveying*, except that where there is no pay item or construction surveying the cost of boundary flagging delineation shall be included in the unit prices bid for the various items in the contract. Installation for delineation of all jurisdictional boundaries at staging areas, waste sites, or borrow pits shall consist of wooden stakes on 25 feet maximum intervals with highly visible orange flagging attached. Stakes shall be installed a minimum of 6" into the ground. Additional flagging may be placed on overhanging vegetation to enhance visibility but does not substitute for installation of stakes.

Installation of boundary flagging for delineation of all jurisdictional boundaries at staging areas, waste sites, or borrow pits shall be performed in accordance with Subarticle 230-4(B)(5) or Subarticle 802-2(F) of the *Standard Specifications*. No direct pay will be made for this delineation, as the cost of same shall be included in the unit prices bid for the various items in the contract.

The Contractor shall be required to maintain alternative stakes and highly visible flagging in a satisfactory condition for the duration of the project as determined by the Engineer.

4.0 MEASUREMENT AND PAYMENT

Safety Fence will be measured and paid as the actual number of linear feet of polyethylene or polypropylene fence installed in place and accepted. Such payment will be full compensation including but not limited to furnishing and installing fence geotextile with necessary posts and post bracing, staples, tie wires, tools, equipment and incidentals necessary to complete this work.

Payment will be made under:

SAFETY FENCE.....LF

SP-15, FLOWABLE FILL FOR STORM PIPE ABANDONMENT

1.0 DESCRIPTION

Abandon existing storm pipes in place by filling with flowable fill.

2.0 MATERIALS

Refer to Division 10.

Item	Section
Flowable Fill	1000-6
Portland Cement Concrete	1000
Select Materials	1016

3.0 CONSTRUCTION METHODS

Abandon storm pipes shown in the plans or designated by the Engineer by emptying the pipe contents and filling with flowable fill. Prepare grout to a consistency that will flow, with a slump 9 or higher. Flowable fill shall be placed with a pump to ensure that the pipe is properly filled.

Fill abandoned pipe with grout or flowable fill to at least 90% full.

4.0 MEASUREMENT AND PAYMENT

Flowable Fill for Storm Pipe Abandonment will be measured and paid for by the cubic yard of flowable fill that is satisfactorily placed inside the pipe.

Payment will be made under:

FLOWABLE FILL FOR STORM PIPE ABANDONMENT CY

NOTICE OF AWARD

TO:

FROM: City of Concord City Council (OWNER) P.O. Box 308 35 Cabarrus Ave. W Concord, North Carolina 28026-0308

PROJECT: Country Club Dr. Culvert Replacement Project No. 2021-043

You are hereby notified that the bid submitted by you for the above named project in response to the City of Concord's Invitation to Bid, dated **November 18, 2022** in the amount of

and _____/100 DOLLARS

(\$_____) has been accepted.

You are hereby required to execute the formal AGREEMENT with the City of Concord City Council and to furnish any and all Contractor's Bond(s), Certificate of Insurance and Power of Attorney(s) along with other documents pertaining to the work as designated by the City of Concord.

If you fail to execute said AGREEMENT and to furnish this and any other required documents pertaining to the work within ten (10) days from the date of delivery of this NOTICE OF AWARD, said Owner will be entitled to consider all your rights arising out of the Owner's acceptance of your bid as abandoned and to award the work covered by your proposal to another, or to re-bid the work or otherwise dispose thereof as the Owner may see fit.

Dated this the	day of	, 20	00
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City of Concord, North Carolina CONTRACTOR
By: _____ By: _____
Title: City Manager Title: _____
ACCEPTANCE OF NOTICE OF AWARD

Receipt of the above NOTICE OF AWARD is hereby acknowledged this the ____ day of _____, 20____.

NOTICE TO PROCEED

TO:

FROM: City of Concord City Council (OWNER) P.O. Box 308 35 Cabarrus Ave. W Concord, North Carolina 28026-0308

PROJECT: Country Club Dr. Culvert Replacement Project No. 2021-043

Contract Amount: _______and ___/100 DOLLARS

(\$_____).

You are hereby notified to commence work on or before the _____ day of ____, 20__, pending acceptance of your Certificate of Insurance and any other required documents, and are to fully complete the work by the _____ day of _____, 20___.

Your project final completion date is therefore the _____ day of _____, 20___, and as set forth in the above named project's schedule unless an extension is granted by the City of Concord Director of Engineering in writing.

City of Concord, North Carolina

By:

Title: City Manager

Dated this the _____ day of ______, 20___.

STANDARD FORM CONSTRUCTION CONTRACT (Revised 07/03/18)

This contract (together with all exhibits and valid amendments, the "Agreement" or the "Contract") is made and entered into as of the _____ day of ______, 20____, by the City of CONCORD ("City") and ______ ("Contractor"), () a corporation, () a professional corporation, () a professional association, () a limited partnership, () a sole proprietorship, or () a general partnership; organized and existing under the laws of the State of _____.

Sec. 1. Background and Purpose.

The Country Club Dr. Culvert Replacement project consists of the removal of 3 existing 72" pipes and the installation of 2 - 78' long, 12' wide and 11' high concrete box culverts and associated services that will include approximately 212' of 18", 24", and 30" storm sewer pipe, relocation of 6" and 8" water mains, coordination with utility agencies on other utility adjustments by others, roadway pavement reconstruction, and other appurtenances along Country Club Dr. NE in Concord NC.

Sec. 2. <u>Services and Scope to be Performed.</u> The Contractor shall provide the services at the charges set forth either in this paragraph or in Exhibit "A". Additional exhibits may be used to further define this Agreement when the Contractor and City so agree. Any additional exhibits shall be designated as exhibits to the Agreement with capitalized, sequential letters of the alphabet, shall be attached hereto and incorporated herein by reference as if the same were fully recited, and shall become terms of this Agreement upon execution by both parties.

In this Contract, "services" means the services that the Contractor is required to perform pursuant to this Contract and all of the Contractor's duties to the City that arise out of this Contract. Any amendments, corrections, or change orders by either party must be made in writing signed in the same manner as the original. (This form may be used for amendments and change orders.) The City reserves the right to refuse payment for any work outside that authorized herein or pursuant to a duly approved amendment or change order.

Sec. 3. <u>Complete Work without Extra Cost</u>. Unless otherwise provided, the Contractor shall obtain and provide, without additional cost to the City, all labor, materials, equipment, transportation, facilities, services, permits, and licenses necessary to perform the Work.

Sec. 4. <u>Compensation</u>. The City shall pay the Contractor for the Work as described in this paragraph below OR as described in Exhibit "A" attached. In the event of a conflict, the provisions of this paragraph shall control. Any additional expenses or charges shall only be paid after both the City and the Contractor agree to and execute a written change order. The City shall not be obligated to pay the Contractor any fees, payments, expenses or compensation other than those authorized in this Contract or in a duly-approved change order. All payments shall be deemed inclusive of tax and other obligations.

Sec. 4a. <u>Retainage.</u> The City shall withhold no retainage on Contracts having a "total project cost" of less than \$100,000.00. The City may withhold retainage on contracts having a total project cost between \$100,000 and \$200,000. The City shall withhold retainage on contracts whose total project cost exceeds \$300,000. When withheld, retainage shall equal no more than five percent of each progress payment. When the project is fifty per cent complete, the City shall not retain anything from future project payments provided that (i) the surety concurs in writing, (ii) the Contractor continues to perform satisfactorily, (iii) any non-conforming work identified in writing by the architect, engineer(s) or City has been corrected by the Contractor and accepted by the architect, engineer(s) or City. However, if the City determines that the Contractor's performance is unsatisfactory, the City may withhold up to five percent retainage from each project payment. The City may withhold additional amounts above five percent for unsatisfactory job progress, defective construction not remedied, disputed work, third party claims filed against the owner or reasonable evidence that a third-party claim will be filed.

Definitions:

"Total Project Cost": Total value of the Contract and any approved change orders or amendments.

"<u>Project is Fifty Percent Complete</u>": When the Contractor's validly-issued gross project invoices (excluding the value of the materials stored off-site) equal or exceed fifty percent of the value of the Contract, except that the value of

materials stored on-site shall not exceed twenty percent of the Contractor's gross project invoices for the purpose of determining whether the project is fifty percent complete.

Sec. 5. <u>Term.</u> The Contractor shall commence work within **ten** (10) days of the date of its receipt of written Notice to Proceed from the City. The date that is **ten** (10) days from the date of the Contractor's receipt of the Notice to Proceed shall be the "Commencement Date." All work as set forth in the Scope of Services in Exhibit "A" shall be completed within **two hundred seventy** (270) calendar days of the Commencement Date. The date that is **two hundred seventy** (270) calendar days from the Commencement Date shall be the "Completion Date." Time is of the essence with regard to this Project. If Contractor's obligations are not completed by the Completion Date, the City reserves the right to nullify this Agreement, order the Contractor to immediately cease all work under this Agreement and vacate the premises, and to seek professional services equivalent to those outlined in Exhibit "A." The Contractor shall be held accountable for all damages incurred by the City as a consequence of the missed Completion Date. The exercise of any of these rights by the City shall not be interpreted to prejudice any other rights the City may have under this Agreement or in law or equity. This Contract shall not be automatically extended unless agreed to in writing by the City or as provided in Exhibit "A.".

Sec. 6. <u>Contractor's Billings to City</u>. Payments will be made in accordance with the schedule found in this section below OR attached at Exhibit "A". Contractor shall submit an original pay request (invoice) to the City Purchasing Agent by the first of each month in order to expedite payment. Upon receipt of the request the City Purchasing Agent shall verify the amounts and if correct forward the request to the Accounts Receivable Division of the Finance Dept. Final payment on the Contract shall be made in 45 days, except in the case of retainage. Within 60 days after the submission of the final pay request, the City (with the written consent of the surety) shall release to the Contractor all retainage payments IF the City receives a certificate of substantial completion from the architect, engineer or designer-in-charge of the project OR the City receives beneficial occupancy and use of the project. In either case, the City may retain up to 2.5 times the estimated value of the work to be completed or corrected.

Sec. 7. <u>Insurance</u>. Contractor shall maintain and cause all sub-contractors to maintain insurance policies at all times with minimum limits as follows:

<u>Coverage</u> Workers' Compensation	<u>Minimum Limits</u> \$500,000 each accident, \$500,000 bodily injury by disease each employee, \$500,000 bodily injury by disease policy limit				
General Liability	\$1,000,000 per occurrence regardless of the contract size				
Automobile Liability	\$1,000,	000 per occurrence regardless of the contract size			
Umbrella		\$1,000,000 per occurrence if contract does not exceed 180 days; otherwise,			
		\$2,000,000 per occurrence			

Contractor shall provide a Certificate of Insurance to the City listing the City as an additional insured. Such Certificate shall be in a form acceptable to the City.

Sec. 8. Documentation Requirements:

A. Contractor shall provide the City with a **Certificate of Insurance** for review prior to the issuance of any contract or Purchase Order. Certificates of insurance must be submitted on an Acord Form (revised 2010/05), and the City must be named as additional insured on all lines of coverage, except for Professional liability and Workers' Compensation. Contractor shall provide a Certificate of Insurance to the City listing the City as additional insured as required by written contract. The General Liability, Automobile Liability and Workers Compensation policies include a Waiver of Subrogation in favor of the City of Concord. The Umbrella Policy shall follow the form of the General Liability and Automobile Liability Policies. All Certificates of Insurance will require written notice by the insurer or Contractor's agent in the event of cancellation, reduction or other modifications of coverage by the insurer. Such notice shall be not less than 30 days for nonrenewal by the insurer, not less than 10 days for cancellation due to nonpayment of the premium and as soon as possible for all other types of modifications. In addition to the notice requirement above, Contractor shall provide the City with written notice of cancellation, reduction, or other modification of coverage of insurance whether instigated by the insurer or by the Contractor immediately upon

Contractor's receipt of knowledge of such modifications. Upon failure of the Contractor to provide such notice, Contractor assumes sole responsibility for all loses incurred by the City for which insurance would have provided coverage. The insurance certificate shall be for the insured period in which the initial contract period begins and shall be renewed by the Contractor for each subsequent renewal period of the insurance for so long as the contract remains in effect.

The City shall be named as an **additional insured** on all policies except Workers' Compensation and professional liability and it is required that coverage be placed with "A" rated insurance companies acceptable to the City. Statement should read, "City of Concord is added as an additional insured as evidenced by an endorsement attached to this certificate." Failure to maintain the required insurance in force may be cause for termination of this Agreement. In the event that the Contractor fails to maintain and keep in force the insurance herein required, the City has the right to cancel and terminate the Agreement without notice.

Without limiting the coverage required pursuant to this Agreement, Contractor shall provide Workers' Compensation insurance if it employs three or more employees. The Worker's Compensation insurance shall have the North Carolina mandated statutory limits. Contractor shall fully comply with all applicable laws including, but not limited to, North Carolina's Workers' Compensation Act (Chapter 97 of the NC General Statutes).

B. Contractor shall provide a completed W-9 form to the City prior to execution by the City of this Agreement.

Sec. 9. Performance of Work by Contractor.

(a) The Contractor warrants that all work performed under this Contract conforms to the Contract requirements and is free of any defect in equipment, material, or design furnished, or workmanship performed by the Contractor or any subcontractor or supplier at any tier. This warranty shall continue for a period of 1 year from the date of issuance by the City of written final completion of the work.

(b) The Contractor shall remedy at the Contractor's expense any failure to conform, or any defect. In addition, the Contractor shall remedy at the Contractor's expense any damage to City - owned or controlled real or personal property, when that damage is the result of--

(1) The Contractor's failure to conform to contract requirements; or

(2) Any defect of equipment, material, workmanship, or design furnished.

(c) The Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. The Contractor's warranty with respect to work repaired or replaced will run for 1 year from the date of repair or replacement.

(d) The City shall notify the Contractor, in writing, within a reasonable time, not to exceed 30 days, after the discovery of any failure, defect, or damage.

(e) If the Contractor fails to remedy any failure, defect, or damage within a reasonable time, not to exceed 30 days unless otherwise agreed in writing and signed by the City Manager or his designee, after receipt of notice, the City shall have the right to replace repair, or otherwise remedy the failure, defect, or damage at the Contractor s expense.

(f) With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this Contract, the Contractor shall--

(1) Obtain all warranties that would be given in normal commercial practice,

(2) Require all warranties to be executed, in writing, for the benefit of the City, if directed to do so by the City; and

(3) Enforce all warranties for the benefit of the City, if directed to do so by the City

(g) In the event the Contractor's warranty has expired, the City may bring suit at its expense to enforce a subcontractor's, manufacturer's, or supplier's warranty.

(h) Unless a defect is caused by the negligence of the Contractor or subcontractor or supplier at any tier, the Contractor shall not be liable for the repair of any defects of material or design furnished by the City nor for the repair of any damage that results from any defect in City-furnished material or design.

Sec. 10. <u>Performance of Work by City.</u> If the Contractor fails to perform the Work in accordance with the schedule referred to in Exhibit "A", the City may, in its discretion, perform or cause to be performed some or all of the Work, and doing so shall not waive any of the City's rights and remedies. Before doing so, the City shall give the Contractor reasonable notice of its intention. The Contractor shall reimburse the City for <u>all</u> costs incurred by the City in exercising its right to perform or cause to be performed some or all of the Work pursuant to this section.

Sec. 11. <u>Attachments.</u> Additional exhibits may be used to further define this Agreement when the Contractor and City so agree. Any additional exhibits shall be designated as exhibits to the Agreement with capitalized, sequential letters of the alphabet, shall be attached hereto and incorporated herein by reference as if the same were fully recited, and shall become terms of this Agreement upon execution by both parties.

The following attachments are made a part of this Contract and incorporated herein by reference:

- (a) Exhibit "A" Bid Form
- (b) Exhibit "B" Standard Form of Performance Bond
- (c) Exhibit "C" Special Provisions
- (d) Exhibit "D" Contractor must execute the Affidavit attached as Exhibit "D", attesting to compliance with state and federal laws related to E-Verify. ***This requirement only applies to contracts that fall within the formal bidding range.**
- (e) Exhibit "E" Tax Form(s).
- (f) Exhibit "F" Certificate of Insurance.
- (g) Exhibit "G" Drawings

In case of conflict between an attachment and the text of this contract excluding the attachment, the text of this contract shall control. Any attachment that materially alters the standard terms contained herein must be reviewed by the City Attorney and approved by the City in writing.

Sec. 12. <u>Notice.</u> (a) All notices and other communications required or permitted by this Contract shall be in writing and shall be given either by personal delivery, fax, or certified United States mail, return receipt requested, addressed as follows:

Contractor:

To the City:		To the
Sue Hyde, Director of Engineering	VaLerie Kolczynski, Esq.	
City of Concord	City Attorney	
P.O. Box 308	PO Box 308	
Concord, NC 28026	Concord, NC 28026	
Fax Number: (704) 786-4521	Fax Number: (704) 784-1791	

(b) <u>Change of Address, Date Notice Deemed Given</u>: A change of address, fax number, or person to receive notice may be made by either party by notice given to the other party. Any notice or other communication under this Contract shall be deemed given at the time of actual delivery, if it is personally delivered or sent by fax. If the notice or other communication is sent by US Mail, it shall be deemed given upon the third calendar day following the day on which such notice or other communication is deposited with the US Postal Service or upon actual delivery, whichever first occurs.

Sec. 13. <u>Indemnification.</u> To the maximum extent allowed by law, the Contractor shall defend, indemnify, and save harmless the City of Concord, its agents, officers, and employees, from and against all charges that arise in any manner from, in connection with, or out of this Contract as a result of the acts or omissions of the Contractor or subcontractors or anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable except for damage or injury caused solely by the negligence of the City its agents, officers, or employees. In performing its duties under this section, the Contractor shall at its sole expense defend the City of Concord, its agents, officers, and employees with legal counsel reasonably acceptable to City. As used in this subsection – "Charges" means claims, judgments, costs, damages, losses, demands, liabilities, duties, obligations, fines, penalties, royalties, settlements, expenses, interest, reasonable attorney's fees, and amounts for alleged violations of sedimentation pollution, erosion control, pollution, or other environmental laws, regulations, ordinances, rules, or orders. Nothing in this section shall affect any warranties in favor of the City that are otherwise provided in or arise out of this Contract. This section is in addition to and shall be construed separately from any other indemnification provisions that may be in this Contract. This section shall remain in force despite termination of this Contract (whether by expiration of the term or otherwise) and termination of the services of the Contract under this Contract.

Sec. 14. <u>Corporate Status.</u> If the Contractor is dissolved or suspended and the Contractor does not notify the City of such dissolution within three (3) business days from date of dissolution or suspension, and/or the corporate status is not reinstated within thirty (30) days, this Contract, at the sole option of the City and without prejudice to City's other remedies, shall be declared null and void or the Contractor shall execute a new contract showing the Contractor's correct legal entity.

Sec. 15. Miscellaneous.

(a) <u>Choice of Law and Forum</u>. This Contract shall be deemed made in Cabarrus County, North Carolina. This Contract shall be governed by and construed in accordance with the laws of North Carolina. The exclusive forum and venue for all actions arising out of this Contract shall be the appropriate division of the North Carolina General Court of Justice, in Cabarrus County. Such actions shall neither be commenced in nor removed to federal court. This section shall not apply to subsequent actions to enforce a judgment entered in actions heard pursuant to this section.

(b) <u>Waiver</u>. No action or failure to act by the City shall constitute a waiver of any of its rights or remedies that arise out this Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed in writing.

(c) <u>Performance of Government Functions.</u> Nothing contained in this Contract shall be deemed or construed so as to in any way estop, limit, or impair the City from exercising or performing any regulatory, policing, legislative, governmental, or other powers or functions.

(d) <u>Severability.</u> If any provision of this Contract shall be unenforceable, the remainder of this Contract shall be enforceable to the extent permitted by law.

(e) <u>Assignment, Successors and Assigns.</u> Without the City's written consent, the Contractor shall not assign (which includes to delegate) any of its rights (including the right to payment) or duties that arise out this Contract. Unless the City otherwise agrees in writing, the Contractor and all assigns shall be subject to all of the City's defenses and shall be liable for all of the Contractor's duties that arise out of this Contract and all of the City's claims that arise out of this Contract. Without granting the Contractor the right to assign, it is agreed that the duties of the Contractor that arise out of this Contract shall be binding upon it and its heirs, personal representatives, successors, and assigns.

(f) <u>Compliance with Law.</u> In performing all of the Work, the Contractor shall comply with all applicable law. Without limitation, Contractor shall comply with the requirements of Article 2, Chapter 64 (Verification of Work Authorization) of the North Carolina General Statutes relating to E-Verify. Further, if Contractor utilizes a subcontractor, Contractor shall require the subcontractor to comply with the requirements of Article 2 of Chapter 64 of the General Statutes. Pursuant to the requirements of the Iran Divestment Act, N.C.G.S. § 143C-6A-1, et. seq., Contractor certifies that that as of the Effective Date of this Agreement, Contractor is not on the Final Divestment List as created by the State Treasurer in compliance with N.C.G.S. § 143-6A-4 and located at www.nctreasurer.com/Iran. Furthermore, Contractor agrees that it will not enter into any subcontracts for the performance of this Agreement with any entity on the Final Divestment List.

(g) <u>City Policy</u>. THE CITY OPPOSES DISCRIMINATION ON THE BASIS OF RACE AND SEX AND URGES ALL OF ITS CONTRACTORS TO PROVIDE A FAIR OPPORTUNITY FOR MINORITIES AND WOMEN TO PARTICIPATE IN THEIR WORK FORCE AND AS SUBCONTRACTORS AND VENDORS UNDER CITY CONTRACTS.

(h) <u>EEO Provisions.</u> During the performance of this Contract the Contractor agrees as follows: (1) The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, political affiliation or belief, age, or disability. The Contractor shall take affirmative action to insure that applicants are employed and that employees are treated equally during employment, without

regard to race, color, religion, sex, national origin, political affiliation or belief, age, or disability. The Contractor shall post in conspicuous places available to employees and applicants for employment, notices setting forth these EEO provisions. (2) The Contractor in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, political affiliation or belief, age, or disability.

(i) <u>No Third Party Right Created.</u> This Contract is intended for the benefit of the City and the Contractor and not any other person.

(j) <u>Principles of Interpretation</u>. In this Contract, unless the context requires otherwise the singular includes the plural and the plural the singular. The pronouns "it" and "its" include the masculine and feminine. Reference to statutes or regulations include all statutory or regulatory provisions consolidating, amending, or replacing the statute or regulation. References to contracts and agreements shall be deemed to include all amendments to them. The word "person" includes natural persons, firms, companies associations, partnerships, trusts, corporations, governmental agencies and units, and any other legal entities.

(k) <u>Modifications, Entire Agreement</u>. A modification of this Contract is not valid unless signed by both parties and otherwise in accordance with requirements of law. Further, a modification is not enforceable against the City unless the City Manager or other duly authorized official signs it for the City. This Contract contains the entire agreement between the parties pertaining to the subject matter of this Contract. With respect to that subject matter, there are no promises, agreements, conditions, inducements, warranties, or understandings, written or oral, expressed or implied, between the parties, other than as set forth or referenced in this Contract.

(1) <u>Corporate Seal.</u> If a corporate seal is included by any party to this Contract, it is only for authentication purposes. This Contract is not signed under seal.

(m) <u>No Employment Relationship</u>. For all matters relating to this Agreement, Contractor shall be deemed an Independent Contractor. Nothing in this Agreement shall be construed in such a manner as to create an employee-employer relationship between City and Contractor.

(The following section applies to construction contracts only if amount is over \$50,000)

Sec. 16. <u>Bonding.</u> Both performance and payment bonds for the full amount of this Contract are required to be attached. Instead of bonds, you may submit a deposit of money, certified check or government securities for the full amount of the Contract. The performance bond shall have a value equal to 100% of this Contract. This bond shall be conditioned upon faithful performance of the Contract in accordance with the plans, specifications and conditions of the Contract. The performance bond shall be solely for the protection of the City. The payment bond shall be in an amount equal to 100% of the Contract, and conditioned upon the prompt payment for all labor or materials for which a contractor or subcontractor is liable. The payment bond shall be solely for the protection of the performance of the performance have a contractor or subcontractor is liable.

Sec. 17. <u>Dispute Resolution</u>. It is understood and agreed that NCGS 143-128(f1-g) requires that disputes arising under an agreement for the erection, construction, alteration or repair of a building be subject to a dispute resolution process specified by the City. The amount in controversy shall be at least \$15,000.00 before this dispute resolution procedure may be used. In compliance with this statutory provision, the City specifies this Section as the dispute resolution process to be used on this Project. It is further understood and agreed that this dispute resolution process is based on non-binding mediation and will only be effective to the extent that the Parties to any mediated dispute participate in the mediation in good faith. It is also understood and agreed that the City is under no obligation under any circumstance to secure or enforce the participation of any other Party in the mediation of any dispute subject to this Section and NCGS 143-128(f1-g).

This Section 17 does not apply to:

(a) The purchase and erection of prefabricated or relocatable buildings or portions of such buildings, except that portion of the work that must be performed at the construction site; or

(b) The erection, construction alteration or repair of a building when the cost of such building is \$300,000 or less.

17.1 Any dispute arising between or among the Parties listed in Section 17.3 that arises from an agreement to construct the Project, including without limitation a breach of such agreement, shall be subject to non-binding mediation administered by the American Arbitration Association under its Construction Industry Mediation Rules ("Rules"), except as otherwise expressly set forth in this Section. To the extent any provision of the Rules

is inconsistent with the provisions of this Section, the provisions of this Section shall control. The mediation provided in this Section shall be used pursuant to this Agreement and NCGS 143-128(f1-g) and is in lieu of any dispute resolution process adopted by the North Carolina State Building Commission, which process shall not apply to this Project.

17.2 For purposes of this Section the following definitions shall apply:

a. *Agreement to construct the Project* means an agreement to construct the Project that is subject to the requirements of NCGS 143-128 and does not include any agreement related to the Project that is not subject to said statute.

b. *Construct* or *construction* refers to and includes the erection, construction, alteration or repair of the Project.

c. *Party* or *Parties* refers to the parties listed in Section 16.4.

d. *Project* means the building to be erected, constructed, altered or repaired pursuant to this Agreement.

17.3 The City and any Party contracting with the City or with any first-tier or lower-tier subcontractor for the construction of the Project agree to participate in good faith in any mediation of a dispute subject to this Section and NCGS 143-128(f1-g), including without limitation the following Parties (if any): architect(s), engineer(s), surveyor(s), construction manager, construction manager at risk, prime contractor(s), surety(ies), subcontractor(s), and supplier(s).

17.4 In order to facilitate compliance with NCGS 143-128(f1-g), the Contractor and all other Parties shall include this Section 17 in every agreement to which it (any of them) is a Party for the construction of the Project without variation or exception. Failure to do so will constitute a breach of this Agreement, and the Contractor or other Party failing to include this Section in any agreement required by this Section shall indemnify and hold harmless the remaining Parties from and against any and all claims, including without limitation reasonable attorney fees and other costs of litigation, arising in any manner from such breach. Notwithstanding the foregoing provisions of this Section, it is expressly understood and agreed that the Parties are intended to be and shall be third-party beneficiaries of the provisions of this Section and can enforce the provisions hereof.

17.5 The following disputes are not subject to mediation: (i) a dispute seeking a non-monetary recovery; and (ii) a dispute seeking a monetary recovery of \$15,000 or less.

17.6 A dispute seeking the extension of any time limit set forth in an agreement to construct the Project shall be subject to mediation pursuant to this Section and NCGS 143-128(f1-g), but only if the damages which would be suffered by the Party seeking the extension would exceed \$15,000 if the disputed extension is denied. To the extent that liquidated damages are set forth in such agreement as the measurement of damages for failure by such Party to meet such time limit, such liquidated damages shall be the exclusive standard for determining the amount of damages associated with such dispute.

17.7 For purposes of this Section, a dispute is limited to the recovery of monetary damages from the same transaction or occurrence against a single Party or two or more Parties alleged to be liable jointly, severally or in the alternative. Two or more disputes may not be consolidated or otherwise combined without the consent of all Parties to such disputes.

17.8 In addition to such matters as are required by the Rules, a request for mediation shall include the amount of the monetary relief requested.

17.9 Prior to requesting mediation, a Party must form a good faith belief that it is entitled under applicable law to recover the monetary amount to be included in the request from one or more of the remaining Parties. Such belief must be based on a reasonable and prudent investigation into the dispute that is the subject of the request. The request for mediation must be based on such investigation and may not include any amount or the name of any remaining Party, unless supported by such investigation and good faith belief by the Party requesting the mediation.

17.10 If a Party breaches any provision of Section 17.9, it shall indemnify and hold harmless all other Parties from any costs, including reasonable attorney fees and other costs of litigation, and damages incurred by such other Parties that arise from such breach.

17.11 All expenses incurred by a Party to a dispute in preparing and presenting any claim or defense at the mediation shall be paid by the Party. Such expenses include without limitation preparation and production of witnesses and exhibits and attorney fees. All other expenses of the mediation, including filing fees and required traveling and other expenses of the mediator, shall be borne as follows: one half by the Party requesting the mediation, with the remaining parties paying equal shares of the remaining expenses and costs; provided that, if the City is named as a party to the mediation, the City shall pay at least one-third of the mediation, the mediation expenses and costs to be divided among the Parties shall be borne equally by the Parties to the dispute; provided that, if the City is named as a Party to the mediation, the City shall pay at least one-third of the mediation expenses and costs to be divided among the Parties shall be borne equally by the Parties to the dispute; provided that, if the City is named as a Party to the mediation, the City shall pay at least one-third of the mediation expenses and costs divided among the Parties.

17.12 The mediation shall be held at a location agreeable to the mediator and all of the Parties; provided that, if no agreement can be reached, the mediation will be held at such location in Cabarrus County as the mediator shall determine.

17.13 The provisions of this Section are subject to any other provision of this Agreement concerning the submission, documentation and/or proof of any claim or dispute. Such other provisions shall apply in full force and shall be satisfied as a condition precedent to mediation pursuant to this Section.

17.14 The Parties understand and agree that mediation in accordance with this Section shall be a condition precedent to institution of any legal or equitable proceeding seeking monetary recovery based on any dispute that is subject to mediation pursuant to this Section.

Sec. 18. Breach. In the event of a violation of any material term of this Agreement, the non-violating party may terminate the Agreement upon written notice. Such notice shall state the violation with specificity and shall give ten (10) days to cure the violation. The cure period shall be measured as ten (10) days from the date of receipt of notice by the violating party, or, if the date is not known, then thirteen (13) days from the date the notice is placed in the United States Post. If the violation remains uncorrected at the end of the cure period, the Agreement shall be terminated without any further action by the non-violating party. Any remaining disputes shall be subject to the dispute resolution procedure set forth above, if applicable.

[Signature Page to Follow]

IN WITNESS WHEREOF, the City of Concord and the Contractor have caused this Contract to be executed by their respective duly authorized agents or officers.

(Typed or Printed Legal Name of Contractor)

CITY OF CONCORD:

By: _____ City Manager Signature of President/Vice President/Manager/Partner By: ____ Date: Printed Name: Title: ATTEST BY: Date: _____ City Clerk ATTEST: Printed Name: APPROVED AS TO FORM: Title Attorney for the City of Concord SEAL

APPROVAL BY CITY FINANCE OFFICER

This instrument has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act.

Signature

EXHIBIT "D"

STATE OF NORTH CAROLINA

AFFIDAVIT

COUNTY OF CABARRUS

I, _____(the individual signing below), being duly authorized by and on behalf of ______(the legal name of the entity entering the contract, "Employer") after

first being duly sworn hereby swears or affirms as follows:

1. Employer understands that <u>E-Verify</u> is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS §64-26.

2. Employer understands that <u>Employers Must Use E-Verify</u>. Each employer (as such term is defined in NCGS § 64-25), after hiring an employee (as such term is defined in NCGS § 64-25) to work in the United States, shall verify the work authorization of the employee through E-Verify in accordance with NCGS § 64-26(a). Employer attests that Employer is in compliance with the requirements of the federal and state laws relevant to E-verify.

3. <u>Employer</u> is a person, business entity, or other organization that transacts business in the State of North Carolina. Employer employs 25 or more employees in this State. (mark Yes or No)

a. YES _____, or b. NO _____.

4. Employer attests that all subcontractors employed by it as part of this contract comply with the requirements of E-Verify, and Employer will ensure compliance with E-Verify by any subcontractors subsequently hired by Employer as part of any contract with the City of Concord.

5. Employer shall have a continuing duty to inform the City of Concord of any changes to this sworn information.

This _____ day of ______, 20____.

Signature of Affiant
Print or Type Name: _____

State of North Carolina County of Cabarrus

Signed and sworn to (or affirmed) before me, this the _____

day of _____, 20___.

My Commission Expires:

Notary Public

(Affix Official/Notarial Seal)

TAX FORM(S)

EXHIBIT "E"

63

EXHIBIT "F"

CERTIFICATE OF INSURANCE

4824-4465-9749, v. 1

City of Concord Post Office Box 308 Concord, North Carolina 28026-0308



For City Use Only Charge to PO #

Project Name	
Date Notice to Proceed	
Final Completion Date	
Days Remaining in Contract	
Percent Work Complete	
Percent Time Complete	
Percent Payment Complete	

APPLICATION FOR PAYMENT NO. PERIOD FROM: TO:

CERTIFICATE OF THE CONTRACTOR

To the best of my knowledge and belief, I certify that this periodical estimate is correct and all work has been performed and materials supplied in full accordance with the terms and conditions of the contract documents between the undersigned contractor and the City of Concord.

GROSS AMOUNT OF PARTIAL PAYMENT	\$
RETAINAGE AT 5.0000%	\$
PREVIOUS PAYMENTS	\$
LIQUIDATION DAMAGES 0.00 DAYS AT \$0.00 PER DAY, \$0.00 this period.	\$
OTHER DEDUCTIONS \$0.00 this period.	\$
TOTAL DEDUCTIONS	 \$
NET AMOUNT DUE THIS ESTIMATE	\$

Name of	Contractor:

Address:

Signed:	Title:	Date:	
0			

CERTIFICATE OF CONSTRUCTION ADMINISTRATOR/ENGINEER

I certify that I have verified this periodical estimate and that to best of my knowledge and belief, it is a true and correct statement of work performed and materials supplied under the contract.

Consultant Engineer:	Date:	_
Engineering Construction Manager:	Date:	
APPROVED AND PAYMENT RECOMMENDED: CITY OF CONCORD		
Signed:	 Date:	

Engineering's Payment Form Application For

Project Title: Country Club Dr. Culvert Replacement

	Project No. –	2021-043	-													
ITEM	DESCRIPTION	QUANTITY		UNIT	TOTA	۱L	QUANT.	TOTAL	QUANT.	TOTAL		QUANT.	ΤΟΤΑ	L	QUANT.	TOTAL
				PRICE	PRICI	Е	THIS EST.	THIS EST.	PREV. EST.	PREVIC	DUS	TO DATE	TO DA	ATE	DIFF.	DIFF.
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	10 % Contingency \$				+	-										\$ -
	Total Base Bid \$				\$	-										\$0.00

CITY OF CONCORD CONCORD, NORTH CAROLINA CONTRACT CHANGE ORDER

Date:

Project 7	Title: Country Club Dr. Culvert Replace	ment Project #	#: 2021-043
Owner:	City of Concord	Change Order No).
То:			
	(CONTRACTOR)		
	Account No.		
	Purchase Order No.		
	ereby requested to make the following changes in ions of the attached and/or the original Contract		
Item No.	Description of Changes	Additions	Deductions
		\$0.00	\$0.00
_	Contract Amount		
	ges by Previous Change Orders		
Net Chang	ges this Change Order		\$0.00
New Cor	ntract Amount		\$0.00
	act Time will be by	calendar days.	
The Comp	oletion Date as of this Change Order is:		
Accepted:	(Contractor)		
By:		Date:	
Accepted:	CITY OF CONCORD		
By:		Date:	
	ument has been pre-audited in the manner requin d Fiscal Control Act.	red by Local Government	
By:		Date:	

Finance Director



Certificate of Infrastructure Completion

Project Name & Number: Country Club Dr. Culve	Project #: 2021-043	
Contractor Name & Address:	Owner Name & Address:	
Miscellaneous Information:		
Inspector:	Signature:	

The following items have been inspected, reviewed and found to be complete in substantial accordance with the approved plans and specifications. The dates of completion are those agreed upon by the City of Concord when all construction Work and testing was completed. These dates DO NOT initiate the start of any Warranty periods of said item(s). Warranty periods shall begin as specified on the CERTIFICATION OF FINAL COMPLETION.

Sanitary Sewer:	Approved:	
Samuary Sewer.		
	Initial:	Date:
Potable Water:	Approved:	
	Initial:	Date:
Storm Water:	Approved:	
	Initial:	Date:
Asphalt Base Course:	Approved:	
	Initial:	Date:
Asphalt Surface Course:	Approved:	
	Initial:	Date:
Curb & Gutter	Approved:	
	Initial:	Date:
Sidewalks:	Approved:	
	Initial:	Date:
Street Trees:	Approved:	
	Initial:	Date:
Other:	Approved:	
	Initial:	Date:

FIELD ORDER

CITY OF CONCORD ENGINEERING DEPARTMENT

Post Office Box 308 Concord, North Carolina 28026-0308

Project Title: Country Club Dr. Culvert Replacement			Project #: 2021-043
FIELD ORDER NO	CONTRACT	DATE	
PROJECT			
LOCATION			
TO:			

THIS ORDER AUTHORIZES YOU TO PROCEED WITH THE ALTERATIONS AND/OR ADDITIONS TO THE WORK AS DESCRIBED HEREIN, IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF OUR STANDARD FORM OF CONTRACT.

DESCRIPTION OF WORK:						
	QUOTATION RECEIVED AND APPROVED BY THE CITY OF CONCORD.					
	QUOTATION NOT RECEIVED. PLEASE FURNISH QUOTATION IMMEDIATELY TO					
	THE CITY OF CONCORD FOR CHECK AND APPROVAL.					
	TIME AND MATERIAL BASIS. FURNISH TIME AND MATERIAL REPORTS DAILY TO					
	THE CITY OF CONCORD FOR VERIFICATION AND SIGNATURE.					
	OTHER					
AUT	HORIZED BY:					

NORTH CAROLINA SALES TAX REPORT

FROM: PURCHASE ORDER #: **CONTRACTOR:** TIME PERIOD: **PROJECT:** OWNER:

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TOTAL TAX PAID S ŝ ŝ ŝ ŝ ŝ ŝ ŝ Ś Ś ŝ S TRANSIT TAX ī ī ı ı S ഗ ŝ S ŝ COUNTY TAX ı. ı ı ī 1 1 1 S ŝ ŝ ŝ ŝ ŝ Ś ഗ S S 1 1 AMOUNT 1 STATE TAX ŝ ŝ ŝ ŝ ŝ ŝ ŝ Ś Ś S S S ŝ S COUNTY PAID SUBTOTAL TAXABLE ITEM ŝ INVOICE # TOTAL: **VENDOR NAME** DATE

the proeprty upon which such taxes were paid or will be used in the performance of this contract. No tax on purchases or rentals of tools and/or equipment is included in the above list. All of the materials became part of or is annexed to the building or structure being erected, altered, or I certify that the above listed vendors were paid sales tax upon purchase of materials during the period covered by the Construction Estimate, repaired.

SWORN AND SUBSCRIBED BEFORE ME THIS DAY OF,			MY COMMISSION EXPIRES:
Contractor or Subcontractor Name (Print)	Signature:	Name (Print):	Title:

North Carolina One Call Center, Inc.

North Carolina One Call Center, Inc., a non-profit organization funded by participating utility companies and municipalities in the interest of community and job safety and improved service through damage reduction to the utilities.

A ONE CALL TOLL FREE TELEPHONE NUMBER, 811 or 1-800-632-4949, PROVIDES AN AVENUE TO ALL OF THE PARTICIPATING MEMBERS FROM ANY POINT WITHIN THE STATE OF NORTH CAROLINA.

Anyone proposing to excavate, dig, bore, tunnel, blast or disturb the earth in any manner in which buried utilities may be damaged is requested to call the toll-free number between the hours of 6:00 a.m. and 10:00 p.m., Monday through Friday, forty-eight hours before starting the proposed work.

Within minutes of your telephone call, the participating members will be made aware of your plans and will be given pertinent information that has been provided by you about your planned work. You will be told the names of the participating members from whom you can expect a response - if there are buried facilities in the path of your activity, the route of the utilities will be staked and/or marked at no expense to you. If there are no facilities in the area of the planned work, you will be called or notified by a representative of a participating company accordingly.

Should a non-participating utility operator be serving your area, we recommend that you call them on an individual basis. All utility operators, whether company or municipality, will be provided an opportunity to become a member of North Carolina One Call Center, Inc.

Naturally, knowing the route of utilities, the excavator is expected to exercise caution and to avoid damage as the project progresses.

Damage prevention does not just happen – it is a planned and orderly process through which each of us can participate -YES, WE CAN AND WE WILL DRAMATICALLY REDUCE DAMAGES TO THE UTILITIES IN THE STATE OF NORTH CAROLINA!! THANKS FOR YOUR HELP.

BEFORE YOU DIG IN THE INTEREST OF COMMUNITY AND JOB SAFETY AND IMPROVED SERVICE

CALL NORTH CAROLINA ONE CALL CENTER, INC. 811 or 1-800-632-4949

North Carolina One Call Center, Inc 2300 West Meadowview Rd., Suite 227 Greensboro, NC 27407 www.nc811.org

SECTION II

GENERAL CONDITIONS

Please reference online at:

https://concordnc.gov/Portals/0/Concord/Departments/Engineering/Documents/Old%20Site%20Standards/10%200 1%2005%20General%20Conditions%20Horizontal.pdf?ver=D9zcv1hzhy5VHaH11P4Ntg%3d%3d

Dated: 01/05/2010

APPENDIX A

GEOTECHNICAL REPORT



February 7, 2022

Rick Blat, PE City of Concord PO Box 308 Concord, NC 28026-0308

RE: Country Club Drive Culvert Country Club Drive Concord, North Carolina <u>Culvert Foundation Recommendations</u>

As requested, Stewart has completed a geotechnical evaluation for the proposed culvert.

Project Description

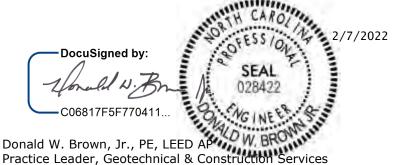
The project will involve replacing the three existing 72-inch diameter corrugated metal pipes (CMP), currently crossing below Country Club Drive, with two reinforced concrete box culverts (RCBC). Based on the provided drawings, the first RCBC will be $13\pm$ feet wide, $11\pm$ feet tall, and $77\pm$ feet long. The second (adjoining) RCBC will be $12\pm$ feet wide, $11\pm$ feet tall, and $79\pm$ feet long. The bottom of the culvert will have a $1\pm$ foot thick concrete base/bottom that shall serve as its foundation, which will bear at approximate elevation 639 feet.

The geotechnical fieldwork was conducted January 31, 2022. The drilling activities were conducted by HPC using an ATV-mounted CME 550 with an auto-hammer. In total, three soil test borings with Standard Penetration Tests (SPT) were performed to evaluate subsurface conditions. Soil samples were manually-visually classified by a geotechnical engineer from Stewart and logged accordingly. The boring logs are attached for reference.

Foundation Recommendations

Culverts of this type are typically founded on a layer of "conditioning material", which is NCDOT Class V or VI select material as specified on Section 1016 of the NCDOT <u>Standard Specifications for Roads and Structures, 2018 Edition</u>. To provide a suitable base for the culvert at this site, we recommend a 24-inch thick layer of conditioning material. The conditioning material should be placed on a layer of Type 4 geotextile, installed perpendicular to the barrel with a minimum of 2 feet of overlap between sheets. The conditioning material and geotextile should extend laterally at least 24 inches beyond the edges of the RCBC, with the geotextile wrapped up and around the conditioning material to fully encapsulated it.

After foundation excavation, the exposed subgrade should be free of boulders, old construction/demolition debris, or other deleterious material. The bearing material should be inspected and approved by a representative of Concord immediately prior to placement of the geotextile and foundation conditioning material.



Stewart License No. C-1051



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Note: All test locations are approximate (unless otherwise reported) and intended for illustration purposes only.



BORING LOCATION DIAGRAM COUNTRY CLUB DRIVE CULVERT Country Club Drive Concord, NC

Project No.:	F22006.00	Figure No.:
Scale:	1 in = 30 ft	
Prepared by:	DWB	1
Date:	2-7-22	

	1	Ø						B	BOF	RING LOG: B-1
	ST	E١	WART							
			COUNTRY CLUB DRIVE CULVERT	CLIE			CITY OF C		2	
	CATI	ON	CONCORD, NC	PROJ	ECT N	0	F22006.00			
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<u>NOTE</u> GSE		BORING TERMINATED DLATED FROM PROVIDED TOPOGRAPHIC MAP AND SHOULD BE CONSI		APPRO	DXIM	ATE.			

						E	BOF	RING LOG: B- 3
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LOC	ATION	CONCORD, NC	PROJECT	NO.	F22006.00			
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DRII		ONTRACTOR HPC	TIME OF D	RILL	ING: WL	11.5 ft		CAVE-IN _14.8 ft
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12.0				640	5			
12.0		VERY LOOSE, GRAY AND BLACK, SATURATED, POORLY-GRADED COAF	RSE640.			+		
-	\sim	SAND WITH SILT AND TRACE TO SOME ORGANICS	-		13.5			
-	\sim		-		ss 5	3 2		
			-	637		2	4	.
_								
18.0	\sim		634.	0				
18.7	WR	WEATHERED ROCK - BROWN, QUARTZ DIORITE, SAMPLED AS SILTY COARSE SAND	633		18.5 SS 18.7 6	50/0.2		
NOTE	E(S):	BORING TERMINATED				,	50/0.2	4
		DLATED FROM PROVIDED TOPOGRAPHIC MAP AND SHOULD BE CONS	IDERED APPI	ROXI	MATE.			

APPENDIX B

NCDEQ / DWR 401 PERMIT APPROVAL

ROY COOPER Governor ELIZABETH S. BISER Secretary S. DANIEL SMITH Director



DWR# 22-0222 Cabarrus County

Garcia Zaragoza City of Concord 35 Cabarrus Ave. W Concord, NC 28025

Delivered via email to gzaragozac@concordnc.gov

Subject: APPROVAL of 401 Water Quality Certification with Additional Conditions Country Club Dr. Culvert Replacement

Dear Mr. Zaragoza:

You have our approval for the impacts listed below for the purpose described in your application submitted to the Division of Water Resources (Division) February 7, 2022, and payment received on February 9, 2022. The Division has determined that the proposed project and impact will comply with water quality requirements covered by the attached Water Quality General Certification Number 4132 and the conditions listed below, provided that you adhere to the certification located at https://deq.nc.gov/about/divisions/water-resources (Division) February 7, 2022, and payment received on February 9, 2022. The Division has determined that the proposed project and impact will comply with water quality requirements covered by the attached Water Quality General Certification Number 4132 and the conditions listed below, provided that you adhere to the certification located at https://deq.nc.gov/about/divisions/water-resources/water-quality-permitting/401-buffer-permitting-branch/general and the conditions listed below.

This certification is associated with the use of Nationwide Permit Number 3 once it is issued to you by the U.S. Army Corps of Engineers. Please note that you should get any other federal, state or local permits before proceeding with your project, including those required by (but not limited to) Sediment and Erosion Control, Non-Discharge, and Water Supply Watershed regulations.

The Division has determined that the proposed project will comply with the water quality requirments provided that you adhere to the conditions listed in the certification and to the additional conditions listed below. The following proposed impacts are hereby approved. No other impacts are approved, including incidental impacts. [15A NCAC 02H .0506(b)]

Type of Impact	Amount Approved Permanent Impact	Amount Approved Temporary Impact				
Stream	141 linear ft.	40 linear ft.				
Wetland	0 acre	acre				

This approval is for the purpose and design described in your application. The plans and specifications for this project are incorporated by reference as part of this Certification. If you change your project, you must notify the Division and you may be required to submit a new application package with the appropriate fee. If the property is sold, the new owner must be



given a copy of this Certification and is responsible for complying with all conditions. [15A NCAC 02H .0507(d)(2)].

If you are unable to comply with any of the conditions of the attached Water Quality General Certification or with the additional conditions itemized below, you must notify the Mooresville Regional Office within 24 hours (or the next business day if a weekend or holiday) from the time the permittee becomes aware of the circumstances.

The permittee shall report to the Mooresville Regional Office any noncompliance with, and/or any violation of, stream or wetland standards [15A NCAC 02B .0200] including but not limited to sediment impacts to streams or wetlands. Information shall be provided orally within 24 hours (or the next business day if a weekend or holiday) from the time the permittee became aware of the non-compliance circumstances.

Additional conditions (15A NCAC 02H .0507(c):

 Diversion Ditches and other storm water conveyances as related to the sediment and erosion control measures shall be matted and/or stabilized to reduce sediment loss and turbidity. This includes interior/exterior slopes of sediment basins. 15A NCAC 02H .0506 (b)(3) and (c)(3)

Justification: Failure to reduce erosion of runoff conveyances and to provide for maximum reduction of erosion on areas not related to ongoing construction, shortens basin holding times, increases turbidity of discharge and creates a greater potential of bypass discharge.

- Bare/fill slopes in excess of 10 feet in height and within 30 feet of surface waters shall be matted. 15A NCAC 02H .0506 (b)(1) and 15A NCAC 02H .502 (c)
- 3. A **turbidity curtain** will be installed in the stream if driving or drilling activities occur within the stream channel, on the stream bank, or within 5 feet of the top of bank. This condition can be waived with prior approval from the NCDWR. 15A NCAC 02H .0506(b)(3)

This approval and its conditions are final and binding unless contested [G.S. 143-215.5] Please be aware that by having impacted waters without first applying for and securing the issuance of a 401 Water Quality Certification, you have violated Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Pursuant to G.S. 143-215.6A, these violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.

This Certification can be contested as provided in Chapter 150B of the North Carolina General Statutes by filing a Petition for a Contested Case Hearing (Petition) with the North Carolina Office of Administrative Hearings (OAH) **within sixty (60) calendar days**. Requirements for filing a Petition are set forth in Chapter 150B of the North Carolina General Statutes and Title 26 of the North Carolina Administrative Code. Additional information regarding requirements for filing a Petition and Petition forms may be accessed at http://www.ncoah.com/ or by calling the OAH Clerk's Office at (919) 431-3000



One (1) copy of the petition must also be served on DEQ as follows:

Mr. Bill Lane, General Counsel Department of Environmental Quality 1601 Mail Service Center Raleigh, NC 27699-1601

This letter completes the review by the Division under Section 401 of the Clean Water Act. If you have any questions, please telephone Mr. Alan Johnson in the Mooresville Regional Office at 704-663-1699.

Sincerely,

Andrew H Pitner for

W. Corey Basinger, Regional Supervisor Water Quality Regional Operations Section Mooresville Regional Office, DEQ

Attachments

cc: Krysta Stygar, Army Corps of Engineers, Charlotte, email DWR 401 & Buffer Permitting Branch file Olivia Munzer, NCWRC, email



CERTIFICATE OF COMPLETION

NCDWR Project No.:	County:
Applicant:	
Project Name:	
Date of Issuance of 401 Water Quality Certificatio	n:
Rules, and any subsequent modifications, the appli	
Applicant's Certification	
	•
Signature:	Date:
Agent's Certification	
Signature:	Date:
Engineer's Certification	
Partial Final	
of North Carolina, having been authorized to obser the project for the Permittee hereby state that, to used in the observation of the construction such th	as a duly registered Professional Engineer in the State rve (periodically, weekly, full time) the construction of the best of my abilities, due care and diligence was nat the construction was observed to be built within r Quality Certification and Buffer Rules, the approved erials.
Signature	Registration NoDate

North Carolina Department of Environmental Quality | Division of Water Resources Mooresville Regional Office | 610 East Center Avenue, Suite 301 | Mooresville, North Carolina 28115 704.663.1699

NORTH CAROLINA Department of Environmental Quality

APPENDIX C

USACE GENERAL PERMIT VERIFICATION

U.S. ARMY CORPS OF ENGINEERS

WILMINGTON DISTRICT

Action Id. SAW-2022-00323 County: Cabarrus U.S.G.S. Quad: NC-Concord

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

Permittee:

Address:Carolina Garcia ZaragozaAddress:35 Cabarrus Ave WestConcord, NC 28025Telephone Number:704-920-5425E-mail:gzargozac@concordnc.gov

Size (acres)1Nearest WaterwayThreemile BranchUSGS HUC03040105

Nearest Town Concord River Basin Upper Pee Dee Coordinates Latitude: <u>35.444064</u> Longitude: <u>-80.603902</u>

Location description: <u>Project is located at the ThreeMile Branch Stream crossing on Country Club Drive in Concord, Cabarrus</u> <u>County, North Carolina.</u>

Description of projects area and activity: This verification authorizes:

City of Concord

- 1) <u>Temporary impact for Dewatering ThreeMile Branch for 40 Linear Feet (0.027 acres)</u>
- 2) Permanent impact of 23 Linear Feet (0.025 acres) to ThreeMile Branch for fill.
- 3) Permanent impact of 128 Linear Feet (0.127 acres) to ThreeMile Branch for Rip-Rap

Applicable Law(s): Section 404 (Clean Water Act, 33 USC 1344)

Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: NWP 3 & NWP 13: Maintenance and Bank Stabilization

SEE ATTACHED NWP GENERAL, REGIONAL, AND/OR SPECIAL CONDITIONS

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached Conditions, your application signed and dated 2/7/2022, and the enclosed plans Impacts Exhibit dated 1/31/2022. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.

This verification will remain valid until the expiration date identified below unless the nationwide and/or regional general permit authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide and/or regional general permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide and/or regional general permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide and/or regional general permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide and/or regional general permit 's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management **Morehead City**, NC, at (252) 808-2808.

This Department of the Arm y verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits. If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact <u>Krystynka B Stygar</u> at <u>252-545-0507</u> or <u>krystynka.b.stygar@usace.army.mil</u>.

Corps Regulatory Official:	frysto	Jugor	Date: 02/25/2022
Expiration Date of Verification: 3/15/2026	<u>6</u> /	0	

Action ID Number: <u>SAW-2022-00323</u>

County: Cabarrus

Permittee: City of Concord, Carolina Garcia Zaragoza

Project Name: Country Club Drive Culvert Replacement

Date Verification Issued: 02/25/2022

Project Manager: <u>Krystynka B Stygar</u>

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS WILMINGTON DISTRICT Attn: Krystynka B Stygar Charlotte Regulatory Office U.S Army Corps of Engineers 8430 University Executive Park Drive, Suite 615 Charlotte, North Carolina 28262 or krystynka.b.stygar@usace.army.mil

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date