



CITY OF  
**ELIZABETH CITY**  
HARBOR OF HOSPITALITY *North Carolina*

***Addendum #1***

**May 4, 2021**

**EC051821 Providence Road Bridge Replacement**

TO: PROSPECTIVE BIDDERS HOLDING PLANS AND SPECIFICATIONS FOR CITY OF ELIZABETH CITY CONTRACT EC051821

RE: EC051821 PROVIDENCE ROAD BRIDGE REPLACEMENT (B-6053) ADDENDUM NO. 1

**Item 1: Pre-Bid Meeting Agenda and Attendees List**

The following is a copy of the Agenda and the List of Attendees from the virtual Pre-Bid Meeting held on April 27, 2021. The Attendee List and Agenda are considered part of this Addendum.



CITY OF  
**ELIZABETH CITY**  
 HARBOR OF HOSPITALITY *North Carolina*

**Pre-Bid Conference Agenda**  
**Tuesday, April 27, 2021**  
**(Virtual Meeting), 2:00 PM**  
**EC051821 Providence Road Bridge Replacement**

*[this meeting is being recorded]*

**Bid Opening:** Sealed Bids for the construction of the **EC051821 Providence Road Bridge Replacement (B-6053)** will be received by hand delivery to the City of Elizabeth City, in the **City Hall Council Chambers, second floor, located at 306 East Colonial Avenue, Elizabeth City, NC**, until **2:00 pm** local time on **May 18, 2021**, at which time and place the bids will be publicly opened and read aloud.

**Mandatory Pre-Bid Conference:** All prospective bidders shall attend a mandatory pre-bid conference (Contract, p.7).

- (A) At this time, Please follow the link dropped into the chat window and fill in the Sign-In Sheet
- (B) After attendees have signed in, you may type in your questions in the chat window

**Project Overview:** The Project consists of replacing Bridge No. 690034 on Providence Road over Knobbs Creek Tributary in Elizabeth City, NC. This work consists of furnishing and installing a prestressed concrete cored slab structure, removal of the existing structure; clearing and grubbing; grading; installation of guardrail; roadway base course and pavement; placement of substructure and superstructure; grading within limits of the project; placement of rip rap and rock plating; temporary erosion control; seeding and mulching; drainage; temporary work zone devices; and all other incidental items necessary to complete the project as specified and shown on the plans. (*show map*)

**Contract Times and Liquidated Damages:** Liquidated damages of \$200 per day will be assessed if the project is not completed in 180 days (Contract, p. 8). The completion time includes completion of all Punch List Items. Liquidated damages of \$500 per day will be assessed if the Intermediate Contract Time Number 1 is not completed in 90 days (Contract, p.8). Liquidated Damages of \$5,000 per day will be assessed if the Intermediate Contract Time Number 2 is not completed in 14 days (Contract, p.9). Note the floating date of availability (June 21, 2021 – August 20, 2021). Note the special conditions for work that may be done prior to June 30<sup>th</sup> (end of moratorium).

**Notice to Proceed:** Notice to proceed will be issued following City Council & NCDOT approval of the bid.

**City Contacts:** Brian Peeler, PE Proposals Engineer of consulting firm RK&K is representing the City through the Bidding Process. The City contact for the project is Jinger Hickman, Assistant to the Public Utilities Director. The NCDOT is providing full-time inspection for the project. As indicated in the contract proposal, the contractor will be responsible for Survey and Staking of the project.

**Bid Package:** Contractors to submit Bid Package according to Instructions to Bidders (Contract, p.2) and based on the requirements of the NCDOT Standard Notes (for Federal Aid projects) (Contract, p.5-6) section of the Contract Documents; including but not limited to: Bidder Prequalification, DBE Requirements, Award of Contract, Contractor Licensing, Bonds, and Liability Insurance.

**DBE Requirements:** Since this is a Federal-aid project with DBE participation, only those requirements and goals set forth by NCDOT Goal Setting Committee are applicable. References to any other requirements or to N.C. General Statute 143-128.2 shall not apply to this project. Refer to Special Provision SP1 G63 (Contract, p.13).

**Right-of-way:** No proposed Right-of-way or Easements are needed.

**Traffic Control:** There is a 14-day road closure to install the new bridge, associated with ICT#2. See liquidated damages described above. See also Traffic Control Phasing: Phase II, Plan Sheet TMP-2.

**Status of Utility Relocations by Others:** Elizabeth City Power (Distribution), Centurylink (FO telecommunications) and Charter (CATV) have been relocated to the underground conduit.

**Utility Construction:** The City has received the NC DWR, DEQ Water Distribution “Authorization to Construct” permit and it will be included in Addendum 1. It is advised that the contractors’ attention be brought to the Project Specific Notes (plan sheet UC-3) which require preparation and approval of a plan of action for the horizontal directional drilling needed for the water and sewer relocations.

**Structures:** The bridge is an accelerated construction made of non-standard precast pieces. Some potential Laydown Areas have been identified. It is the responsibility of the contractor to determine their laydown area. (*show map*)

**Status of Permits:** USACE 404 and NC DWR, DEQ 401 have been secured at this time and are included in the Permit package. The City has received the NC DWR, DEQ Water Distribution “Authorization to Construct” permit and it will be included in Addendum 1.

**Addendum 1:** At this time the following items and revisions are known and will be included in Addendum 1:

- Pre-Bid Conference Agenda
- Pre-Bid Conference Attendance List
- Contract Proposal Document Revisions:
  - Contract Time and Liquidated Damages (SP1 G07D) shall be replaced with SP1 G05B, and shall include special note regarding allowable work before June 30<sup>th</sup> (Contract, p.8)
  - Intermediate Contract Time Number 1 and Liquidated Damages (SP1 G13A) shall be replaced with SP1 G13B (Contract, p.8-9)
  - DBE Goal = 6%, per NCDOT Committee (SP1 G63, Contract p. 15)
  - DBE Provision, replace LGA entity language with unaltered NCDOT Provision (for Federally funded project (SP1 G63, Contract pp. 13-26)
  - Water Distribution “Authorization to Construct” permit shall be added to the Utility Construction Special Provisions (Contract, p. 84 ff)
  - Bid Bond: page 1 of the Bid Bond signature sheets (in back of the Contract) shall be replaced with LGA version
  - Replace City’s Identification of HUB Certified/Minority Business Participation list with NCDOT Listing of DBE Subcontractors (Federal) form, D 08 DBE
- Project Plans Revisions:
  - Index of Sheets on Plan Sheet 1A shall be corrected
  - Survey Control Sheets RW01 thru RW04 shall be replaced with full-size sheet PDFs
  - Utility Construction plans will be signed and sealed (since the permit has been received)

**Questions:** At this time, If you have not already, please type any questions you would like included and addressed in Addendum 1 in the chat window. I will begin reading the questions aloud in a few moments.

Questions on the plans and specifications received in writing after **May 4, 2021** may not be answered (see Advertisement: Request for Bids). The final Addendum, if required, will be issued by end of the day on **Thursday, May 6, 2021**. All responses to the questions pertaining to this project will be answered by Addendum and posted on the City’s and NCDOT’s websites.

Inquiries should be directed to:

**Brian D. Peeler, PE, PTOE**

**Proposals Engineer, RK&K, LLP**

Email Address: bpeeler@rkk.com

Mailing Address: 8601 Six Forks Road, Forum 1 Suite 700, Raleigh, NC 27615

**Comments:**

END OF AGENDA

**Pre-Bid Meeting Attendees List (electronic sign-in):**



Sign-In Sheet: (Virtual) Mandatory Pre-Bid Conference, April 27, 2021, 2:00 pm

*NOTE: The following Prospective Bidders have attended and properly registered at the Mandatory Pre-Bid Conference*

Name	email	(Representing) Company	Address
Bruce C Keener	bkeener@koksing.biz	Corman Kokosing Construction Co.	121 Sampson Creek Road Suite 100 Chesapeake, VA 23322
Chris Brown	cbrown@sanfordcontractors.com	Sanford Contractors, Inc.	628 Rocky Fork Church Rd. Sanford, NC 27332
Denver Land	dland@mcleancontracting.com	McLean Contracting Company	6700 McLean Way, Glen Burnie, MD 21060
John Spruill	John@besingleton.com	B.E. Singleton & Sons, Inc.	920 W 3rd St Washington NC 27889
Justin Carter	jcarter@sanfordcontractors.com	Sanford Contractors, Inc.	628 Rocky Fork Church Rd. Sanford, NC 27332
Justin Hill	jehill@taloving.com	T.A. Loving Company	400 Patetown Rd., Goldsboro, NC 27534
Patrick Haines	Patrick.haines1@kiewit.com	Kiewit Infrastructure	2062 Energy Drive, Apex, NC 27502
Richard Dove	rdove@mcleancontracting.com	McLean Contracting Company	6700 mcLean Way, Glen Burnie, MD 21060
Stephen Salter	ssalter@taloving.com	T.A. Loving Company	400 Patetown Rd., Goldsboro, NC 27534
Ryan Shook	rlshook@ncdot.gov	NCDOT	113 Airport Dr., Suite 100, Edenton, NC 27932
Jinger Hickman	jhickman@cityofec.com	City of Elizabeth City	410 Pritchard Street, Elizabeth City, NC 27909
Ryan Howell	rhowell@cityofec.com	City of Elizabeth City	410 Pritchard Street, Elizabeth City, NC 27909
R. J. Lassiter	rlassiter@cityofec.com	City of Elizabeth City	1005 N. Poindexter Street, Elizabeth City, North Carolina 27909
Brian D. Peeler	bpeeler@rkk.com	RK&K	8601 Six Forks Road, Forum 1 Suite 700, Raleigh, NC 27615
Jeff Thatcher	jthatcher@rkk.com	RK&K	8601 Six Forks Road, Forum 1 Suite 700, Raleigh, NC 27615
Ondine Paitel	opaitel@rkk.com	RK&K	8601 Six Forks Road, Forum 1 Suite 700, Raleigh, NC 27615
John Olinger	jolinger@rkk.com	RK&K	8601 six Forks Road, Forum 1 Suite 700, Raleigh, NC 27615
Scott Blevins	sblevins@rkk.com	RK&K	8601 six Forks Road, Forum 1 Suite 700, Raleigh, NC 27615
David Peterson	dpeterson@rkk.com	RK&K	8601 six Forks Road, Forum 1 Suite 700, Raleigh, NC 27615

Added post meeting per email & MS Teams log confirmation:			
Jake Linn	jake@dellinger-inc.com	Dellinger Inc.	2631 Old Charlotte Highway, Monroe NC 28110

**Item 1A: Extended Period for Questions from Prospective Contractors/Bidders:**

Questions on the plans and specifications received in writing after **2:00 pm on Thursday, May 6, 2021** may not be answered. The final Addendum, if required, will be issued by end of the day on **Monday, May 10, 2021**. All responses to the questions pertaining to this project will be answered by Addendum and posted on the City's and NCDOT's websites.

Inquiries should be directed to:

**Brian D. Peeler, PE, PTOE**

**Proposals Engineer, RK&K, LLP**

Email Address: bpeeler@rkk.com

Mailing Address: 8601 Six Forks Road, Forum 1 Suite 700, Raleigh, NC 27615

**Item 2: Pre-Bid Meeting Questions from Prospective Contractors/Bidders:**

The following questions were received from prospective Contractors/Bidders at the Pre-Bid Meeting:

**2.1.** page 7 correct time for end of question EST or EDT?

The correct end time for submittal of questions is 2:00 pm **EDT (Eastern Daylight Time)** on May 4, 2021.

**2.2.** are the three identified potential laydown owners notified on possible use?

No.

**2.3.** In the bid documents, it was stated that to help accelerate the schedule, the H piles and certain sheet piles should be driven prior to the 14-day road closure. Can a temporary road closure be used to accomplish this? The crane may not fit in a single lane closure.

**2.3.a. [May 4, 2021 email follow-up/restated]:** In the notes on sheet S-3, the suggested construction sequence calls for performing the following tasks before closing Providence Road:

- Stockpile all precast items
  - Drive sheet piles parallel to providence road all 4 quadrants
  - Drive H piles (all 12 for both end bents) through the pavement and cover with 57 stone
- Given the width of the roadway (20' +/-), and the width of the crane required to perform these tasks (19'), can these tasks be performed during temporary road closures? The crane is too wide for a simple lane closure.

**Item 3** in this Addendum includes an additional Intermediate Contract Time (ICT#3) to provide a separate time prior to the 14-day road closure (ICT#2) for pile driving (H-pile and/or sheet-pile). The contractor shall provide a minimum 48 hours' notice to the City prior to road closure. The City will notify the public. The contractor is responsible for the traffic control devices needed for closure, according to the plans and specifications within the contract and addenda.



**Item 3: Contract Proposal and Plans Revisions:**

The following revisions are included as part of this Addendum:

**3.1. Contract Time and Liquidated Damages (SP1 G07D) (Contract, p.8) shall be replaced with the following SP1 G05B, and shall include special note regarding allowable work before June 30th:**

**CONTRACT TIME AND LIQUIDATED DAMAGES:**

(7-1-95) (Rev. 12-18-07)

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SPECIAL

The date of availability for this contract is the date the Contractor begins work but not before **June 21, 2021** or later than **August 20, 2021**.

The completion date for this contract is the date that is **One Hundred Eighty (180)** consecutive calendar days after and including the date of availability.

Note that only minor construction work (i.e. fill, riprap for the utility bore temp workpads) and other utility work may begin prior to the end of the moratorium (June 30<sup>th</sup>). Other construction work may begin after the end of the moratorium (June 30<sup>th</sup>).

Except where otherwise provided by the contract, observation periods required by the contract will not be a part of the work to be completed by the completion date and/or intermediate contract times stated in the contract. The acceptable completion of the observation periods that extend beyond the final completion date shall be a part of the work covered by the performance and payment bonds.

The liquidated damages for this contract are **Two Hundred Dollars (\$ 200.00)** per calendar day. At the preconstruction conference the Contractor shall declare his expected date for beginning work. Should the Contractor desire to revise this date after the preconstruction conference, he shall notify the Engineer in writing at least thirty (30) days prior to the revised date.

**3.2. Intermediate Contract Time Number 1 and Liquidated Damages (SP1 G13A) (Contract, p.8-9) shall be replaced with the following SP1 G13B:**

**INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES:**

(12-18-07) (Rev. 2-21-12)

108

SP1 G13 B

Except for that work required under the Project Special Provisions entitled *Planting, Reforestation* and/or *Permanent Vegetation Establishment*, included elsewhere in this proposal, the Contractor will be required to complete all work included in this contract and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is the date of availability of the contract.

The completion date for this intermediate contract time is the date which is **Ninety (90)** consecutive calendar days after the date of availability.

The liquidated damages for this intermediate contract time are **Five Hundred Dollars (\$500.00)** per calendar day.

Upon apparent completion of all the work required to be completed by this intermediate date, a final inspection will be held in accordance with Article 105-17 and upon acceptance, the Department will assume responsibility for the maintenance of all work except *Planting, Reforestation* and/or *Permanent*

*Vegetation Establishment.* The Contractor will be responsible for and shall make corrections of all damages to the completed roadway caused by his planting operations, whether occurring prior to or after placing traffic through the project.

**3.3. Intermediate Contract Time Number 2 and Liquidated Damages (SP1 G14H) (Contract, p.9) shall be replaced with the following provision (SPECIAL).**

**INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES:**

(05-03-21)

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SPECIAL

The Contractor shall complete the work required of **PHASE II** as shown on Sheet(s) **TMP-2** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work after providing a minimum 48 hours’ notice to the City prior to road closure. The City will notify the public.

The completion date for this intermediate contract time is the date which is **Fourteen [14]** consecutive calendar days after and including the date the Contractor begins this work.

The liquidated damages are **Five Thousand Dollars (\$ 5,000.00)** per calendar day.

**3.4. The following Intermediate Contract Time Number 3 and Liquidated Damages (SPECIAL) shall be added.**

**INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES:**

(05-03-21)

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SPECIAL

The Contractor may utilize an additional temporary road closure to accomplish pile-driving (H-pile and/or Sheet Pile).

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work after providing a minimum 48 hours’ notice to the City prior to road closure. The City will notify the public.

The completion date for this intermediate contract time is the date which is up to **Seven [7]** consecutive calendar days:

- after and including the date the Contractor begins this work, and
- occurring before, but not consecutive with, ICT #2.

The liquidated damages are **Five Thousand Dollars (\$ 5,000.00)** per calendar day.

**3.5. DISADVANTAGED BUSINESS ENTERPRISE (LOCAL GOVERNMENT AGENCIES) (SP1 G63)**  
(Contract, p.15) shall be replaced with the following:

**DISADVANTAGED BUSINESS ENTERPRISE (LOCAL GOVERNMENT AGENCIES):**

(10-16-07)(Rev. 1-15-19)

102-15(J)

SP1 G63

**Description**

The purpose of this Special Provision is to carry out the U.S. Department of Transportation's policy of ensuring nondiscrimination in the award and administration of contracts financed in whole or in part with Federal funds. This provision is guided by 49 CFR Part 26.

**Definitions**

*Additional DBE Subcontractors* - Any DBE submitted at the time of bid that will not be used to meet the DBE goal. No submittal of a Letter of Intent is required.

*Committed DBE Subcontractor* - Any DBE submitted at the time of bid that is being used to meet the DBE goal by submission of a Letter of Intent. Or any DBE used as a replacement for a previously committed DBE firm.

*Contract Goal Requirement* - The approved DBE participation at time of award, but not greater than the advertised contract goal.

*DBE Goal* - A portion of the total contract, expressed as a percentage, that is to be performed by committed DBE subcontractor(s).

*Disadvantaged Business Enterprise (DBE)* - A firm certified as a Disadvantaged Business Enterprise through the North Carolina Unified Certification Program.

*Goal Confirmation Letter* - Written documentation from **the Department of Public Utilities** to the bidder confirming the Contractor's approved, committed DBE participation along with a listing of the committed DBE firms.

*Local Government Agencies (LGA)* - The entity letting the contract.

*Manufacturer* - A firm that operates or maintains a factory or establishment that produces on the premises, the materials or supplies obtained by the Contractor.

*Regular Dealer* - A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of the contract are bought, kept in stock, and regularly sold to the public in the usual course of business. A regular dealer engages in, as its principal business and in its own name, the purchase and sale or lease of the products in question. A regular dealer in such bulk items as steel, cement, gravel, stone, and petroleum products need not keep such products in stock, if it owns and operates distribution equipment for the products. Brokers and packagers are not regarded as manufacturers or regular dealers within the meaning of this section.



*Replacement / Substitution* – A full or partial reduction in the amount of work subcontracted to a committed (or an approved substitute) DBE firm.

*North Carolina Unified Certification Program (NCUCP)* - A program that provides comprehensive services and information to applicants for DBE certification, such that an applicant is required to apply only once for a DBE certification that will be honored by all recipients of USDOT funds in the state and not limited to the Department of Transportation only. The Certification Program is in accordance with 49 CFR Part 26.

*Standard Specifications* - The general term comprising all directions, provisions, and requirements contained or referred to in the *North Carolina Department of Transportation Standard Specifications for Roads and Structures* and any subsequent revisions or additions to such book.

*United States Department of Transportation (USDOT)* - Federal agency responsible for issuing regulations (49 CFR Part 26) and official guidance for the DBE program.

### **Forms and Websites Referenced in this Provision**

*DBE Payment Tracking System* - On-line system in which the Contractor enters the payments made to DBE subcontractors who have performed work on the project.  
<https://apps.dot.state.nc.us/Vendor/PaymentTracking/>

*DBE-IS Subcontractor Payment Information* - Form for reporting the payments made to all DBE firms working on the project. This form is for paper bid projects only.  
<https://connect.ncdot.gov/business/Turnpike/Documents/Form%20DBE-IS%20Subcontractor%20Payment%20Information.pdf>

*RF-1 DBE Replacement Request Form* - Form for replacing a committed DBE.  
<http://connect.ncdot.gov/projects/construction/Construction%20Forms/DBE%20MBE%20WBE%20Replacement%20Request%20Form.pdf>

*SAF Subcontract Approval Form* - Form required for approval to sublet the contract.  
<http://connect.ncdot.gov/projects/construction/Construction%20Forms/Subcontract%20Approval%20Form%20Rev.%202012.zip>

*JC-1 Joint Check Notification Form* - Form and procedures for joint check notification. The form acts as a written joint check agreement among the parties providing full and prompt disclosure of the expected use of joint checks.  
<http://connect.ncdot.gov/projects/construction/Construction%20Forms/Joint%20Check%20Notification%20Form.pdf>

*Letter of Intent* - Form signed by the Contractor and the DBE subcontractor, manufacturer or regular dealer that affirms that a portion of said contract is going to be performed by the signed DBE for the estimated amount (based on quantities and unit prices) listed at the time of bid.  
<http://connect.ncdot.gov/letting/LetCentral/Letter%20of%20Intent%20to%20Perform%20as%20a%20Subcontractor.pdf>

*Listing of DBE Subcontractors Form* - Form for entering DBE subcontractors on a project that will meet this DBE goal. This form is for paper bids only.

[http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/08%20DBE%20Subcontractors%20\(Federal\).docx](http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/08%20DBE%20Subcontractors%20(Federal).docx)

*Subcontractor Quote Comparison Sheet* - Spreadsheet for showing all subcontractor quotes in the work areas where DBEs quoted on the project. This sheet is submitted with good faith effort packages.

<http://connect.ncdot.gov/business/SmallBusiness/Documents/DBE%20Subcontractor%20Quote%20Comparison%20Example.xls>

## **DBE Goal**

The following DBE goal for participation by Disadvantaged Business Enterprises is established for this contract:

Disadvantaged Business Enterprises **6.0 %**

- (A) *If the DBE goal is more than zero*, the Contractor shall exercise all necessary and reasonable steps to ensure that DBEs participate in at least the percent of the contract as set forth above as the DBE goal.
- (B) *If the DBE goal is zero*, the Contractor shall make an effort to recruit and use DBEs during the performance of the contract. Any DBE participation obtained shall be reported to **the Department of Public Utilities**.

## **Directory of Transportation Firms (Directory)**

Real-time information is available about firms doing business with the NCDOT and firms that are certified through NCUCP in the Directory of Transportation Firms. Only firms identified in the Directory as DBE certified shall be used to meet the DBE goal. The Directory can be found at the following link. [https:// www.ebs.nc.gov/VendorDirectory/default.html](https://www.ebs.nc.gov/VendorDirectory/default.html)

The listing of an individual firm in the directory shall not be construed as an endorsement of the firm's capability to perform certain work.

## **Listing of DBE Subcontractors**

At the time of bid, bidders shall submit all DBE participation that they anticipate to use during the life of the contract. Only those identified to meet the DBE goal will be considered committed, even though the listing shall include both committed DBE subcontractors and additional DBE subcontractors. Additional DBE subcontractor participation submitted at the time of bid will be used toward the overall race-neutral goal. Only those firms with current DBE certification at the time of bid opening will be acceptable for listing in the bidder's submittal of DBE participation. The Contractor shall indicate the following required information:

- (A) *If the DBE goal is more than zero,*
- (1) Bidders, at the time the bid proposal is submitted, shall submit a listing of DBE participation, including the names and addresses on *Listing of DBE Subcontractors* contained elsewhere in the contract documents in order for the bid to be considered responsive. Bidders shall indicate the total dollar value of the DBE participation for the contract.
  - (2) If bidders have no DBE participation, they shall indicate this on the *Listing of DBE Subcontractors* by entering the word “None” or the number “0.” This form shall be completed in its entirety. **Blank forms will not be deemed to represent zero participation.** Bids submitted that do not have DBE participation indicated on the appropriate form will not be read publicly during the opening of bids. **The Department of Public Utilities** will not consider these bids for award and the proposal will be rejected.
  - (3) The bidder shall be responsible for ensuring that the DBE is certified at the time of bid by checking the Directory of Transportation Firms. If the firm is not certified at the time of the bid-letting, that DBE’s participation will not count towards achieving the DBE goal.
- (B) *If the DBE goal is zero,* entries on the *Listing of DBE Subcontractors* are not required, however any DBE participation that is achieved during the project shall be reported in accordance with requirements contained elsewhere in the special provision.

### **DBE Prime Contractor**

When a certified DBE firm bids on a contract that contains a DBE goal, the DBE firm is responsible for meeting the goal or making good faith efforts to meet the goal, just like any other bidder. In most cases, a DBE bidder on a contract will meet the DBE goal by virtue of the work it performs on the contract with its own forces. However, all the work that is performed by the DBE bidder and any other DBE subcontractors will count toward the DBE goal. The DBE bidder shall list itself along with any DBE subcontractors, if any, in order to receive credit toward the DBE goal.

For example, if the DBE goal is 45% and the DBE bidder will only perform 40% of the contract work, the prime will list itself at 40%, and the additional 5% shall be obtained through additional DBE participation with DBE subcontractors or documented through a good faith effort.

DBE prime contractors shall also follow Sections A or B listed under *Listing of DBE Subcontractor* just as a non-DBE bidder would.

### **Written Documentation – Letter of Intent**

The bidder shall submit written documentation for each DBE that will be used to meet the DBE goal of the contract, indicating the bidder’s commitment to use the DBE in the contract. This documentation shall be submitted on the NCDOT’s form titled *Letter of Intent*.

The documentation shall be received in the office of the **Department of Public Utilities** no later than 2:00 p.m. of the fifth calendar day following opening of bids, unless the fifth day falls on Saturday, Sunday or an official state holiday. In that situation, it is due in the office of the **Department of Public Utilities** no later than 10:00 a.m. on the next official state business day.

If the bidder fails to submit the Letter of Intent from each committed DBE to be used toward the DBE goal, or if the form is incomplete (i.e. both signatures are not present), the DBE participation will not count toward meeting the DBE goal. If the lack of this participation drops the commitment below the DBE goal, the Contractor shall submit evidence of good faith efforts, completed in its entirety, to the **Department of Public Utilities** no later than 2:00 p.m. on the eighth calendar day following opening of bids, unless the eighth day falls on Saturday, Sunday or an official state holiday. In that situation, it is due in the office of the **Department of Public Utilities** no later than 10:00 a.m. on the next official state business day.

### **Submission of Good Faith Effort**

If the bidder fails to meet or exceed the DBE goal, the apparent lowest responsive bidder shall submit to the **Department of Public Utilities** documentation of adequate good faith efforts made to reach the DBE goal.

One complete set of this information shall be received in the office of the **Department of Public Utilities** no later than 2:00 p.m. of the fifth calendar day following opening of bids, unless the fifth day falls on Saturday, Sunday or an official state holiday. In that situation, it is due in the office of the **Department of Public Utilities** no later than 10:00 a.m. on the next official state business day.

Note: Where the information submitted includes repetitious solicitation letters, it will be acceptable to submit a representative letter along with a distribution list of the firms that were solicited. Documentation of DBE quotations shall be a part of the good faith effort submittal. This documentation may include written subcontractor quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

### **Consideration of Good Faith Effort for Projects with DBE Goals More Than Zero**

Adequate good faith efforts mean that the bidder took all necessary and reasonable steps to achieve the goal which, by their scope, intensity, and appropriateness, could reasonably be expected to obtain sufficient DBE participation. Adequate good faith efforts also mean that the bidder actively and aggressively sought DBE participation. Mere *pro forma* efforts are not considered good faith efforts.

**The Department of Public Utilities** will consider the quality, quantity, and intensity of the different kinds of efforts a bidder has made. Listed below are examples of the types of actions a bidder will take in making a good faith effort to meet the goal and are not intended to be exclusive or exhaustive, nor is it intended to be a mandatory checklist.

- (A) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising, written notices, use of verifiable electronic means through the use of the NCDOT Directory of Transportation Firms) the interest of all certified DBEs who have the capability to perform the work of the contract. The bidder must solicit this interest within at least 10 days

prior to bid opening to allow the DBEs to respond to the solicitation. Solicitation shall provide the opportunity to DBEs within the Division and surrounding Divisions where the project is located. The bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.

- (B) Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved.
  - (1) Where appropriate, break out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
  - (2) Negotiate with subcontractors to assume part of the responsibility to meet the contract DBE goal when the work to be sublet includes potential for DBE participation (2<sup>nd</sup> and 3<sup>rd</sup> tier subcontractors).
- (C) Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
- (D)
  - (1) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the work.
  - (2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidding contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.
- (E) Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associates and political or social affiliations (for example, union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
- (F) Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or bidder.

- (G) Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (H) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; Federal, State, and local minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs. Contact within 7 days from the bid opening NCDOT's Business Opportunity and Work Force Development Unit at BOWD@ncdot.gov to give notification of the bidder's inability to get DBE quotes.
- (I) Any other evidence that the bidder submits which shows that the bidder has made reasonable good faith efforts to meet the DBE goal.

In addition, **the Department of Public Utilities** may take into account the following:

- (1) Whether the bidder's documentation reflects a clear and realistic plan for achieving the DBE goal.
- (2) The bidders' past performance in meeting the DBE goals.
- (3) The performance of other bidders in meeting the DBE goal. For example, when the apparent successful bidder fails to meet the DBE goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the DBE goal, but meets or exceeds the average DBE participation obtained by other bidders, **the Department of Public Utilities** may view this, in conjunction with other factors, as evidence of the apparent successful bidder having made a good faith effort.

If **the City** does not award the contract to the apparent lowest responsive bidder, **the City** reserves the right to award the contract to the next lowest responsive bidder that can satisfy to **the City** that the DBE goal can be met or that an adequate good faith effort has been made to meet the DBE goal.

### **Non-Good Faith Appeal**

The **the Department of Public Utilities** will notify the contractor verbally and in writing of non-good faith. A contractor may appeal a determination of non-good faith made by the Goal Compliance Committee. If a contractor wishes to appeal the determination made by the Committee, they shall provide written notification to the **the Department of Public Utilities**. The appeal shall be made within 2 business days of notification of the determination of non-good faith.

### **Counting DBE Participation Toward Meeting DBE Goal**

- (A) Participation

The total dollar value of the participation by a committed DBE will be counted toward the contract goal requirement. The total dollar value of participation by a committed DBE will be



based upon the value of work actually performed by the DBE and the actual payments to DBE firms by the Contractor.

(B) Joint Checks

Prior notification of joint check use shall be required when counting DBE participation for services or purchases that involves the use of a joint check. Notification shall be through submission of Form JC-1 (*Joint Check Notification Form*) and the use of joint checks shall be in accordance with the NCDOT's Joint Check Procedures.

(C) Subcontracts (Non-Trucking)

A DBE may enter into subcontracts. Work that a DBE subcontracts to another DBE firm may be counted toward the contract goal requirement. Work that a DBE subcontracts to a non-DBE firm does not count toward the contract goal requirement. If a DBE contractor or subcontractor subcontracts a significantly greater portion of the work of the contract than would be expected on the basis of standard industry practices, it shall be presumed that the DBE is not performing a commercially useful function. The DBE may present evidence to rebut this presumption to **the Department of Public Utilities**. **The Department of Public Utilities**'s decision on the rebuttal of this presumption is subject to review by the Federal Highway Administration but is not administratively appealable to USDOT.

(D) Joint Venture

When a DBE performs as a participant in a joint venture, the Contractor may count toward its contract goal requirement a portion of the total value of participation with the DBE in the joint venture, that portion of the total dollar value being a distinct clearly defined portion of work that the DBE performs with its forces.

(E) Suppliers

A contractor may count toward its DBE requirement 60 percent of its expenditures for materials and supplies required to complete the contract and obtained from a DBE regular dealer and 100 percent of such expenditures from a DBE manufacturer.

(F) Manufacturers and Regular Dealers

A contractor may count toward its DBE requirement the following expenditures to DBE firms that are not manufacturers or regular dealers:

- (1) The fees or commissions charged by a DBE firm for providing a *bona fide* service, such as professional, technical, consultant, or managerial services, or for providing bonds or insurance specifically required for the performance of a DOT-assisted contract, provided the fees or commissions are determined to be reasonable and not excessive as compared with fees and commissions customarily allowed for similar services.

- (2) With respect to materials or supplies purchased from a DBE, which is neither a manufacturer nor a regular dealer, count the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site (but not the cost of the materials and supplies themselves), provided the fees are determined to be reasonable and not excessive as compared with fees customarily allowed for similar services.

### **Commercially Useful Function**

#### **(A) DBE Utilization**

The Contractor may count toward its contract goal requirement only expenditures to DBEs that perform a commercially useful function in the work of a contract. A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE shall also be responsible with respect to materials and supplies used on the contract, for negotiating price, determining quality and quantity, ordering the material and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a commercially useful function, **the Department of Public Utilities** will evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and any other relevant factors.

#### **(B) DBE Utilization in Trucking**

The following factors will be used to determine if a DBE trucking firm is performing a commercially useful function:

- (1) The DBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular contract, and there shall not be a contrived arrangement for the purpose of meeting DBE goals.
- (2) The DBE shall itself own and operate at least one fully licensed, insured, and operational truck used on the contract.
- (3) The DBE receives credit for the total value of the transportation services it provides on the contract using trucks it owns, insures, and operates using drivers it employs.
- (4) The DBE may subcontract the work to another DBE firm, including an owner-operator who is certified as a DBE. The DBE who subcontracts work to another DBE receives credit for the total value of the transportation services the subcontracted DBE provides on the contract.
- (5) The DBE may also subcontract the work to a non-DBE firm, including from an owner-operator. The DBE who subcontracts the work to a non-DBE is entitled to credit for the

total value of transportation services provided by the non-DBE subcontractor not to exceed the value of transportation services provided by DBE-owned trucks on the contract. Additional participation by non-DBE subcontractors receives credit only for the fee or commission it receives as a result of the subcontract arrangement. The value of services performed under subcontract agreements between the DBE and the Contractor will not count towards the DBE contract requirement.

- (6) A DBE may lease truck(s) from an established equipment leasing business open to the general public. The lease must indicate that the DBE has exclusive use of and control over the truck. This requirement does not preclude the leased truck from working for others during the term of the lease with the consent of the DBE, so long as the lease gives the DBE absolute priority for use of the leased truck. This type of lease may count toward the DBE's credit as long as the driver is under the DBE's payroll.
- (7) Subcontracted/leased trucks shall display clearly on the dashboard the name of the DBE that they are subcontracted/leased to and their own company name if it is not identified on the truck itself. Magnetic door signs are not permitted.

### **DBE Replacement**

When a Contractor has relied on a commitment to a DBE subcontractor (or an approved substitute DBE subcontractor) to meet all or part of a contract goal requirement, the contractor shall not terminate the DBE subcontractor for convenience. This includes, but is not limited to, instances in which the Contractor seeks to perform the work of the terminated subcontractor with another DBE subcontractor, a non-DBE subcontractor, or with the Contractor's own forces or those of an affiliate.

The Contractor must give notice in writing both by certified mail and email to the DBE subcontractor, with a copy to the **the Department of Public Utilities** of its intent to request to terminate and/or substitute, and the reason for the request. The Contractor must give the DBE subcontractor five (5) business days to respond to the Contractor's Notice of Intent to Request Termination and/or Substitution. If the DBE subcontractor objects to the intended termination/substitution, the DBE, within five (5) business days must advise the Contractor and the **Department of Public Utilities** of the reasons why the action should not be approved. The five-day notice period shall begin on the next business day after written notice is provided to the DBE subcontractor.

A committed DBE subcontractor may only be terminated after receiving the **Department of Public Utilities**'s written approval based upon a finding of good cause for the proposed termination and/or substitution. For purposes of this section, good cause shall include the following circumstances:

- (a) The listed DBE subcontractor fails or refuses to execute a written contract;
- (b) The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor;
- (c) The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements;

- (d) The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;
- (e) The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to 2 CFR Parts 180, 215 and 1,200 or applicable state law;
- (f) The listed DBE subcontractor is not a responsible contractor;
- (g) The listed DBE voluntarily withdraws from the project and provides written notice of withdrawal;
- (h) The listed DBE is ineligible to receive DBE credit for the type of work required;
- (i) A DBE owner dies or becomes disabled with the result that the listed DBE contractor is unable to complete its work on the contract;
- (j) Other documented good cause that compels the termination of the DBE subcontractor. Provided, that good cause does not exist if the prime contractor seeks to terminate a DBE it relied upon to obtain the contract so that the prime contractor can self-perform the work for which the DBE contractor was engaged or so that the prime contractor can substitute another DBE or non-DBE contractor after contract award.

The Contractor shall comply with the following for replacement of a committed DBE:

(A) Performance Related Replacement

When a committed DBE is terminated for good cause as stated above, an additional DBE that was submitted at the time of bid may be used to fulfill the DBE commitment. A good faith effort will only be required for removing a committed DBE if there were no additional DBEs submitted at the time of bid to cover the same amount of work as the DBE that was terminated.

If a replacement DBE is not found that can perform at least the same amount of work as the terminated DBE, the Contractor shall submit a good faith effort documenting the steps taken. Such documentation shall include, but not be limited to, the following:

- (1) Copies of written notification to DBEs that their interest is solicited in contracting the work defaulted by the previous DBE or in subcontracting other items of work in the contract.
- (2) Efforts to negotiate with DBEs for specific subbids including, at a minimum:
  - (a) The names, addresses, and telephone numbers of DBEs who were contacted.
  - (b) A description of the information provided to DBEs regarding the plans and specifications for portions of the work to be performed.
- (3) A list of reasons why DBE quotes were not accepted.
- (4) Efforts made to assist the DBEs contacted, if needed, in obtaining bonding or insurance required by the Contractor.

(B) Decertification Replacement

- (1) When a committed DBE is decertified by the NCDOT after the SAF (*Subcontract Approval Form*) has been received by the **Department of Public Utilities**, the **Department of Public Utilities** will not require the Contractor to solicit replacement DBE participation equal to the remaining work to be performed by the decertified firm. The participation equal to the remaining work performed by the decertified firm will count toward the contract goal requirement.
- (2) When a committed DBE is decertified prior to the **Department of Public Utilities** receiving the SAF (*Subcontract Approval Form*) for the named DBE firm, the Contractor shall take all necessary and reasonable steps to replace the DBE subcontractor with another DBE subcontractor to perform at least the same amount of work to meet the DBE goal requirement. If a DBE firm is not found to do the same amount of work, a good faith effort must be submitted to **the Department of Public Utilities** (see A herein for required documentation).

All requests for replacement of a committed DBE firm shall be submitted to the **the Department of Public Utilities** for approval on Form RF-1 (*DBE Replacement Request*). If the Contractor fails to follow this procedure, the Contractor may be disqualified from further bidding for a period of up to 6 months

### Changes in the Work

When the **Department of Public Utilities** makes changes that result in the reduction or elimination of work to be performed by a committed DBE, the Contractor will not be required to seek additional participation. When the **Department of Public Utilities** makes changes that result in additional work to be performed by a DBE based upon the Contractor's commitment, the DBE shall participate in additional work to the same extent as the DBE participated in the original contract work.

When the **Department of Public Utilities** makes changes that result in extra work, which has more than a minimal impact on the contract amount, the Contractor shall seek additional participation by DBEs unless otherwise approved by the **Department of Public Utilities** .

When the **Department of Public Utilities** makes changes that result in an alteration of plans or details of construction, and a portion or all of the work had been expected to be performed by a committed DBE, the Contractor shall seek participation by DBEs unless otherwise approved by the **Department of Public Utilities** .

When the Contractor requests changes in the work that result in the reduction or elimination of work that the Contractor committed to be performed by a DBE, the Contractor shall seek additional participation by DBEs equal to the reduced DBE participation caused by the changes.

## Reports and Documentation

A SAF (*Subcontract Approval Form*) shall be submitted for all work which is to be performed by a DBE subcontractor. The **Department of Public Utilities** reserves the right to require copies of actual subcontract agreements involving DBE subcontractors.

When using transportation services to meet the contract commitment, the Contractor shall submit a proposed trucking plan in addition to the SAF. The plan shall be submitted prior to beginning construction on the project. The plan shall include the names of all trucking firms proposed for use, their certification type(s), the number of trucks owned by the firm, as well as the individual truck identification numbers, and the line item(s) being performed.

Within 30 calendar days of entering into an agreement with a DBE for materials, supplies or services, not otherwise documented by the SAF as specified above, the Contractor shall furnish the **Department of Public Utilities** a copy of the agreement. The documentation shall also indicate the percentage (60% or 100%) of expenditures claimed for DBE credit.

## Reporting Disadvantaged Business Enterprise Participation

The Contractor shall provide the **Department of Public Utilities** with an accounting of payments made to all DBE firms, including material suppliers and contractors at all levels (prime, subcontractor, or second tier subcontractor). This accounting shall be furnished to the **Department of Public Utilities** for any given month by the end of the following month. Failure to submit this information accordingly may result in the following action:

- (A) Withholding of money due in the next partial pay estimate; or
- (B) Removal of an approved contractor from the prequalified bidders' list or the removal of other entities from the approved subcontractors list.

While each contractor (prime, subcontractor, 2nd tier subcontractor) is responsible for accurate accounting of payments to DBEs, it shall be the prime contractor's responsibility to report all monthly and final payment information in the correct reporting manner.

Failure on the part of the Contractor to submit the required information in the time frame specified may result in the disqualification of that contractor and any affiliate companies from further bidding until the required information is submitted.

Failure on the part of any subcontractor to submit the required information in the time frame specified may result in the disqualification of that contractor and any affiliate companies from being approved for work on future projects until the required information is submitted.

Contractors reporting transportation services provided by non-DBE lessees shall evaluate the value of services provided during the month of the reporting period only.

At any time, the **Department of Public Utilities** can request written verification of subcontractor payments.



The Contractor shall report the accounting of payments on the NCDOT's DBE-IS (*Subcontractor Payment Information*) with each invoice. Invoices will not be processed for payment until the DBE-IS is received.

**Failure to Meet Contract Requirements**

Failure to meet contract requirements in accordance with Subarticle 102-15(J) of the *2018 Standard Specifications* may be cause to disqualify the Contractor.

END OF SP1 G063 PROVISION

**3.6.** The following Water Distribution “Authorization to Construct” permit shall be added to the Utility Construction Special Provisions (Contract, p. 84 ff):

ROY COOPER  
*Governor*  
DIONNE DELLI-GATTI  
*Secretary*  
S. DANIEL SMITH  
*Director*



April 6, 2021

City of Elizabeth City  
Attention: Montre Freeman, City Manager  
Post office Box 404  
Elizabeth City, North Carolina 27907

Re: Engineering Plans and Proj. Special Prov. Approval  
Distribution Relocation  
B-5063 Bridge No. 690034 Replacement  
City of Elizabeth City  
Water System No.: NC0470010, Pasquotank County  
Serial No.: 21-00226

Dear Applicant:

Enclosed please find one copy of the "Application for Approval..." together with one copy of the referenced engineering plans and project special provisions bearing the Division of Water Resources stamp of approval for the referenced project. These engineering plans and project special provisions are approved under Division of Water Resources Serial Number 21-00226, dated April 6, 2021.

Engineering plans and project special provisions prepared by Howard T. Woodall, III, P.E., call for the installation of approximately 340 feet of 8-inch HDPE water main, valves and other related appurtenances under Knobbs Creek Tributary and along Providence Road just west of S. Hughes Boulevard to relocate an existing 6-inch water main in conflict with NCDOT's bridge work at this location. Construction of this project must be in accordance with NCDOT's standard specifications.

Please note that in accordance with 15A NCAC 18C .0309(a), no construction, alteration, or expansion of a water system shall be placed into service or made available for human consumption until the Public Water Supply Section has issued Final Approval. Final Approval will be issued and mailed to the applicant upon receipt of both an Engineer's Certification and an Applicant's Certification submitted in accordance with 15 A NCAC 18C .0303 (a) and (c).

These plans and specifications in the foregoing application are approved insofar as the protection of public health is concerned as provided in the rules, standards and criteria adopted under the authority of Chapter 130A-317 of the General Statutes. This approval does not constitute a warranty of the design, construction or future operation of the water system.



North Carolina Department of Environmental Quality | Division of Water Resources  
512 North Salisbury Street | 1634 Mail Service Center | Raleigh, North Carolina 27699-1634  
919.707.9100

ROY COOPER  
Governor  
DIONNE DELLI-GATTI  
Secretary  
S. DANIEL SMITH  
Director



April 06, 2021

ELIZABETH CITY  
ATTN: MONTRE FREEMAN, CITY MANAGER  
P O BOX 404  
ELIZABETH CITY, NC 27907

Re: **Authorization to Construct (This is not a Final Approval)**  
Issue Date: April 06, 2021  
B-5063 Bridge No. 690034 Replacement  
Serial No.: 21-00226      Water System No.: NC0470010  
Pasquotank County

Dear Applicant:

This letter is to confirm that a complete Engineer's Report and a Water System Management Plan have been received, and that engineering plans and specifications have been approved by the Department for **B-5063 Bridge No. 690034 Replacement, Serial No.: 21-00226**.

The "Authorization to Construct" is valid for 36 months from the issue date. Authorization to construct may be extended if the Rules Governing Public Water Supplies and site conditions have not changed (see Rule .0305). The "Authorization to Construct" and the engineering plans and specifications approval letter shall be posted at the primary entrance of the job site before and during construction.

Upon completion of the construction or modification, **and prior to placing the new construction or modification into service**, the applicant must submit an Engineer's Certification and Applicant's Certification to the Public Water Supply Section.

- **Engineer's Certification:** in accordance with Rule .0303 (a), the applicant shall submit a certification statement signed and sealed by a registered professional engineer stating that construction was completed in accordance with approved engineering plans and specifications, including any provisions stipulated in the Department's engineering plan and specification approval letter.
- **Applicant's Certification:** in accordance with Rule .0303 (c), the applicant shall submit a signed certification statement indicating that the requirements for an Operation and Maintenance Plan and Emergency Management Plan have been satisfied in accordance with Rule .0307 (d) and (e) and that the system has a certified operator in accordance with Rule .1300. The "Applicant's Certification" form is available at <http://www.ncwater.org/> (click on Public Water Supply Section, Plan Review, Plan Review Forms).

Certifications can be sent by mail, fax (919-715-4374), or attachment to an e-mail message to [PWSSection.PlanReview@ncdenr.gov](mailto:PWSSection.PlanReview@ncdenr.gov).

If this "Authorization to Construct" is for a new public water system, the owner must submit a completed **application for an Operating Permit** and the appropriate fee. For a copy of the application for an Operating Permit please call (919) 707-9085.

Once the certifications and permit application and fee (if applicable) are received and determined adequate, the Department will issue a Final Approval letter to the applicant. In accordance with Rule .0309 (a), **no portion of this project shall be placed into service until the Department has issued Final Approval.**

Please contact us at (919) 707-9100 if you have any questions or need additional information.

Sincerely,

Robert W. Midgette, P.E.  
Chief, Public Water Supply Section

cc: JAMIE MIDGETTE, P.E., Regional Engineer  
RK & K



North Carolina Department of Environmental Quality | Division of Water Resources  
512 North Salisbury Street | 1634 Mail Service Center | Raleigh, North Carolina 27699-1634  
919.707.9100

North Carolina Department of Environmental Quality  
Division of Water Resources

Authorization to Construct

Project Applicant:	<b>ELIZABETH CITY</b>
Public Water System Name and Water System No.:	<b>ELIZABETH CITY, CITY OF NC0470010</b>
Project Name:	<b>B-5063 Bridge No. 690034 Replacement</b>
Serial No.:	<b>21-00226</b>
Issue Date:	<b>April 06, 2021</b>
Expiration Date:	<b>36 Months after Issue Date</b>

In accordance with NCAC 18C .0305, this Authorization to Construct must be posted at the primary entrance to the job site during construction.

North Carolina Department of Environmental Quality  
Division of Water Resources  
Public Water Supply Section

RECEIVED

MAR 16 2021

NC PWS

Application for Approval  
of Engineering Plans and Specifications  
For Water Supply Systems

Applicant	Design Engineer
Elizabeth City (Name of Board, Council or Owner – the Applicant)	Howard Woodall (Name of Design Engineer of Record)
Montre Freeman, City Manager (Name and Title of Authorized Official or Representative of the Applicant)	RK&K (Name of Engineering Firm)
PO Box 404 (Mailing Address)	8601 Six Forks Rd, Forum 1, Suite700 (Mailing Address)
Elizabeth City, NC 27907 (City, State & ZIP)	Raleigh, NC 27615 (City, State & ZIP)
(252) 337-6864 (Phone Number)	(919) 653-7337 (o) or (919) 612-0316 (c) (Phone Number)
(252) 338-1946 (FAX Number)	 (FAX Number)
mfreeman@cityofec.com; (Email address)	hwoodall@rkk.com (Email address)
 (Signature of Authorized Official or Representative of the Applicant)	

Project Name: B-5063 - Bridge No. 690034 Replacement  
(Name of Project to appear on Public Water Supply Section records and tracking system)

Relocation of 336 linear feet of 6" water main - no additional service connections  
(description of project)

Bridge No. 690034 on Providence Rd., 500' west of S. Hughes Blvd., Elizabeth City  
(general location of project)

in Pasquotank County.

Date \_\_\_\_\_  
(for DEQ use only)

Serial No. 21-00226  
(for DEQ use only)



Application for Approval of Engineering Plans and Specifications for Water Supply Systems

To: Division of Water Resources,  
Department of Environmental Quality

The Applicant applies under and in full accord with the provision of NCGS 130A-317, and such other statutes and rules as relate to public water systems. The Authorized Official or Representative of the Applicant represents that he is authorized to act for the Applicant. The Authorized Official or Representative of the Applicant understands and agrees to the following:

1. The Applicant shall not award contracts or begin construction without first receiving "Authorization to Construct" from DEQ.
2. The Applicant shall make no change or deviation from the engineering plans and specifications approved by DEQ except as allowed by 15A NCAC 18C .0306 or with the written consent and approval of DEQ.
3. The Applicant shall obtain Final Approval in accordance with 15A NCAC 18C .0306 prior to placing the project (or any portion thereof) into service.
4. Digital (PDF) submittals are true image copy of the original sealed/signed documents.

An authorized representative of the Public Water System (not always the same as the Applicant) is to complete and sign the following WSMP section.

Status of Water System Management Plan (WSMP)

Check one of the following, and if applicable, provide the required information:

- The WSMP for the project, as defined in the attached engineering plans and specifications, has not been submitted.
- Three copies of the WSMP for the project, as defined in the attached engineering plans and specifications, are submitted with this application.
- The WSMP that includes this project, as defined in the attached engineering plans and specifications, was previously submitted.

Provide the following:

Public Water System Name: Elizabeth City

Owner Name: Elizabeth City

Water System No.: NC 04-70-010

Serial Number of Deemed Complete WSMP: ?

By my signature below, I certify that the previously submitted WSMP contains the information required by 15A NCAC 18C .0307(c) for the project defined in the attached engineering plans and specifications.

Montre Freeman  
(Type or print name of authorized representative of Public Water System)

City Manager  
(Title of authorized representative of Public Water System)

Montre D. Freeman  
(Signature of authorized representative of Public Water System)

2-15-21  
(Date)

Application for Approval of Engineering Plans and Specifications for Water Supply Systems

In accordance with NCGS 130A-328, the Public Water Supply Section charges a fee for plan review. Any documents submitted for review must be accompanied by a check payable to DEQ-Public Water Supply Section before the review will begin.

There is a \$25 fee for returned checks.

The charges for review of plans are shown below. Check one of the following.

Distribution System fees

- Construction of water lines, less than 5000 linear feet \$150
- Construction of water lines, 5000 linear feet or more \$200
- Other construction or alteration to a distribution system \$ 75

Ground Water System fees

- Construction of a new ground water system or adding a new well \$200
- Alteration to an existing ground water system \$100

Surface water system fees

- Construction of a new surface water intake or treatment facility \$250
- Alteration to existing surface water intake or treatment facility \$150

Other fees

- Water System Management Plan review \$ 75
- Miscellaneous changes or maintenance not covered above \$ 50

Notes:

1. Projects for Tank Rehabilitation use separate "Application for Water Tank Reconditioning Plan Approval."
2. The fee is not refundable if the plans are not approved.
3. Revisions to plans to address the Public Water Supply Section's or other state agency's comments do not incur an additional fee.
4. If one set of plans has multiple related items (such as a new well with construction of water lines) only one fee must be submitted for highest price item. The amounts are not cumulative, except for fees for Water System Management Plans.
5. **If the appropriate plan review fee is not received within ten days after the receipt of plans, specifications, and reports for approval, then all plan documents will be recycled. A new set of documents must then be submitted with the appropriate fee for approval.**

This approval does not address all applicable laws, rules, standards and criteria, and other approvals and licenses that may be required by the local, state or federal government.

The Public Water Supply Section has stamped and sealed the official copies of plans and specifications accompanying this application with the serial number of this application 21-00226. Any erasures, additions or alterations of the proposed improvements except those permitted in 15A NCAC 18C .0306 make this approval null and void.

This approval does not constitute a warranty of the design, construction or future operation of the water system.

Signed: \_\_\_\_\_  
Robert W. Midgette, P.E.  
Chief, Public Water Supply Section  
Division of Water Resources

Application for Approval of Engineering Plans and Specifications for Water Supply Systems

**Other Information and Checklist Page**

- Attached is a check for the proper plan review fee amount, in accordance with NCGS 130A-328. See note 4 on page 3.

This submittal includes one paper original with two digital (PDF) CDs of the following items, each item in separate folders:

- This completed “*Application for Approval of Engineering Plans and Specifications for Water Supply Systems*”
- The sealed plan drawings, separate file in PDF format for each drawing. Cover sheet must include drawings index;
- The project-specific Engineering Report (ER) describing the scope and purpose of the project and addressing each of the items listed in 15A NCAC 18C .0307(b), including the design basis of the project. [15A NCAC 18C .0307(b) (12)];
- Specifications for this project; **OR**
- The project will use the following system’s previously approved standard specifications for waterline extensions:

Name of System: \_\_\_\_\_

Serial Number: \_\_\_\_\_

The Serial Numbers for previously approved standard specifications can be found at the following website:  
<http://www.ncwater.org/?page=424>

One of the following:

- Attached is a letter signed by an authorized representative of the Public Water System agreeing to serve the project and stating that the system has adequate supply;
- OR**
- The **Applicant** is the Public Water System.

If the project has sought funding (for example, DWSRF loan) list the program and (if available) the application or funding number below:

Program Name	Application or Funding Number, if available

- Yes  No  Project will be completed with significant expenditure of state moneys, greater than ten million dollars (\$10,000,000) in accordance with G.S. 113A-9 (7a).
- Project will cause substantial, permanent land-disturbing activity of an area greater than 10 acres of public lands in accordance with G.S. 113A-9 (11).

Project: B-6053

UC-1

County: Pasquotank

PROJECT SPECIAL PROVISIONS

Utility Construction  
02/04/2021

RK&K  
8601 Six Forks Road  
Forum 1 Suite 700  
Raleigh, NC 27615



Digitally signed by  
Howard Woodall  
Date: 2021.03.11  
09:58:25-05'00'

(Seal)

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**Revise the 2018 Standard Specifications as follows:**

**Page 15-1, Sub-article 1500-2 Cooperation with the Utility Owner, paragraph 2:**  
add the following sentences:

The utility owner is the City of Elizabeth City, NC. The contact person is Dwan Bell and he can be reached by phone at 252-337-6628.

Contractor shall coordinate closely with NCDOT and the Utility Owner during the installation of water and force main sewer lines for any necessary shut downs or by-pass pumping.

**Revise the 2018 Standard Specifications as follows:**

**Page 15-23; Section 1550.** The Contractor’s attention is directed to this section for the connection of the newly installed HDPE lines to the existing lines. Additional items to be included in the unit price are identified below.

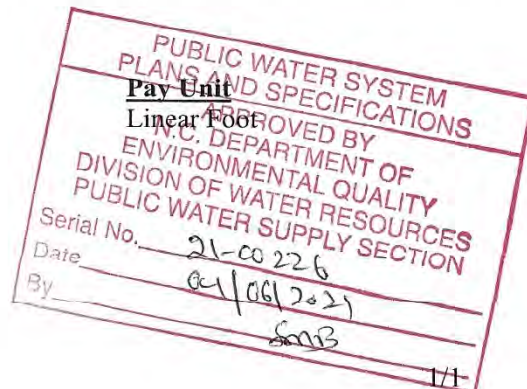
**Measurement and Payment:**

Payment for “*Directional Drilling of \_\_\_\_*” shall also include all adapters, bends, restraint of proposed and existing lines, and any incidentals necessary to complete the work as required in addition to the items in the 2018 Standard Specifications.

Payment will be made under:

**Pay Item:**

Directional Drilling of \_\_\_\_”



END OF WATER PERMIT

**3.7. Bid Bond sheets:** page 1 of the Bid Bond signature sheets (in back of the Contract) shall be replaced with the following LGA version:

Contract No. \_\_\_\_\_  
County \_\_\_\_\_

Rev. 7-25-17

**STATE OF NORTH CAROLINA  
CITY OF ELIZABETH CITY  
RALEIGH, NC**

**BID BOND**

Principal: \_\_\_\_\_  
Name of Principal Contractor

Surety: \_\_\_\_\_  
Name of Surety

Contract Number: \_\_\_\_\_ County: \_\_\_\_\_

Date of Bid: \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS, That we, the PRINCIPAL CONTRACTOR (hereafter, PRINCIPAL) and SURETY above named, are held and firmly bound unto the **City of Elizabeth City** in the full and just sum of five (5) percent of the total amount bid by the Principal for the project 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.

NOW, THEREFORE, the condition of this obligation is: the Principal shall not withdraw its bid within sixty (60) days after the opening of the bids, or within such other time period as may be provided in the proposal, and if the **City of Elizabeth City** shall award a contract to the Principal, the Principal shall, within ten (10) calendar days after written notice of award is received by him, provide bonds with good and sufficient surety, as required for the faithful performance of the contract and for the protection of all persons supplying labor, material, and equipment for the prosecution of the work. In the event the Principal requests permission to withdraw his bid due to mistake in accordance with the provisions of Article 103-3 of the *Standard Specifications for Roads and Structures*, the conditions and obligations of this Bid Bond shall remain in full force and effect until the **City of Elizabeth City** makes a final determination to either allow the bid to be withdrawn or to proceed with award of the contract. In the event a determination is made to award the contract, the Principal shall have ten (10) calendar days to comply with the requirements set forth above. In the event the Principal withdraws its bid after bids are opened except as provided in Article 103-3, or after award of the contract has been made fails to execute such additional documents as may be required and to provide the required bonds within the time period specified above, then the amount of the bid bond shall be immediately paid to the **City of Elizabeth City** as liquidated damages.

IN TESTIMONY WHEREOF, the Principal and Surety have caused these presents to be duly signed and sealed.

This the \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

\_\_\_\_\_  
Surety

By \_\_\_\_\_  
General Agent or Attorney-in-Fact Signature

*Seal of Surety*

\_\_\_\_\_  
Print or type Signer's Name

**3.8. DBE Subcontractors (Federal) form:** Replace City’s Identification of HUB Certified/Minority Business Participation list (and subsequent Affidavits A through D) with the following NCDOT Listing of DBE Subcontractors (Federal) form, D 08 DBE (M-2):



**LISTING OF DBE SUBCONTRACTORS**

Sheet of

Firm Name and Address	Item No.	Item Description	* Agreed upon Unit Price	** Dollar Volume of Item
Name  Address				
Name  Address				
Name  Address				
Name  Address				
Name  Address				
Name  Address				
Name  Address				

\* The Dollar Volume shown in this column shall be the Actual Price Agreed Upon by the Prime Contractor and the DBE subcontractor, and these prices will be used to determine the percentage of the DBE participation in the contract.

\*\* Dollar Volume of DBE Subcontractor Percentage of Total Contract Bid Price:

*If firm is a Material Supplier Only, show Dollar Volume as 60% of Agreed Upon Amount from Letter of Intent.*

*If firm is a Manufacturer, show Dollar Volume as 100% of Agreed Upon Amount from Letter of Intent.*



**LISTING OF DBE SUBCONTRACTORS**

Sheet \_\_\_\_\_ of \_\_\_\_\_

Firm Name and Address	Item No.	Item Description	* Agreed upon Unit Price	** Dollar Volume of Item
Name  Address				
Name  Address				
Name  Address				
Name  Address				
Name  Address				

\*\* Dollar Volume of DBE Subcontractor \$ \_\_\_\_\_

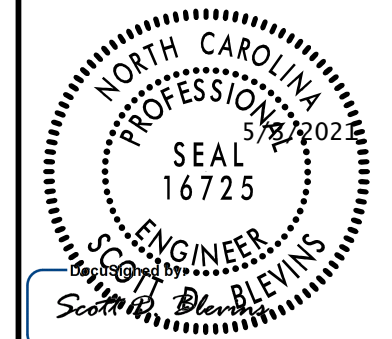
Percentage of Total Contract Bid Price \_\_\_\_\_ %

\* The Dollar Volume shown in this column shall be the Actual Price Agreed Upon by the Prime Contractor and the DBE subcontractor, and these prices will be used to determine the percentage of the DBE participation in the contract.

\*\* Dollar Volume of DBE Subcontractor Percentage of Total Contract Bid Price:  
 If firm is a Material Supplier Only, show Dollar Volume as 60% of Agreed Upon Amount from Letter of Intent.  
 If firm is a Manufacturer, show Dollar Volume as 100% of Agreed Upon Amount from Letter of Intent.

**3.9. Final Plans:** Replace Plan Sheet 1A with the following revised Index of Sheets:

5/14/99  
4/30/2023  
R:\13\2023\Proj\B6053\_Rdy\_1A.dgn

690034	PROJECT REFERENCE NO.	SHEET NO.
	B-6053	1A
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		
		
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>		

SHEET NO.	SHEET
1	Title Sheet
1-A	Index of Sheets, General Notes, and List of Standards
1-B	Conventional Plan Sheet Symbols
2A-1	Pavement Schedule and Typical Sections
2C-1	Detail of Modified Concrete Flume
2G-1	Detail of Rock Embankment and Rock Plating
3B-1	Summary Earthwork, Guardrail, and Shoulder Berm Gutter
3G-1	Summary Rock Plating and Subsurface Drainage
4	Plan and Profile Sheet
RW01	Right of Way Title Sheet
RW2C-1 thru RW2C-3	Survey Control Sheets
RW02D-1	Proposed Alignment Control Sheet
RW03E-1	Right of Way Control Sheets
RW04	Modified R/W Plan Sheet
TMP-1 thru TMP-4	Transportation Management Plan
EC-1 thru EC-5	Erosion Control Plans
UC-1 thru UC-4	Utility Construction Plans
U0-1 thru U0-2	Utilities By Others Plans
X-1 thru X-3	Cross-Sections
S-1 thru S-18	Structure Plans

2018 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-16-2018  
REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch- N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superlevation - Two Lane Pavement
275.01	Rock Plating
DIVISION 4 - MAJOR STRUCTURES	
422.02	Bridge Approach Fills - Type II Modified Approach Fill
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
815.02	Subsurface Drain
850.01	Concrete Paved Ditches
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units

GENERAL NOTES:

2018 SPECIFICATIONS  
EFFECTIVE: 01-16-2018  
REVISED:

GRADE LINE:  
GRADING AND SURFACING:  
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUPERELEVATION:  
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:  
ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

SUBSURFACE DRAINS:  
SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL:  
THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

END BENTS:  
THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

UTILITIES:  
UTILITY OWNERS ON THIS PROJECT ARE City of Elizabeth City, CenturyLink, Charter, and Media-Comm  
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

**3.10. Final Plans:** Replace the prior Survey Control Sheets (RW01-RW04) with the following fullsize PDF plans:

09/08/99

**TIP PROJECT: B-6053**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.		RW01	

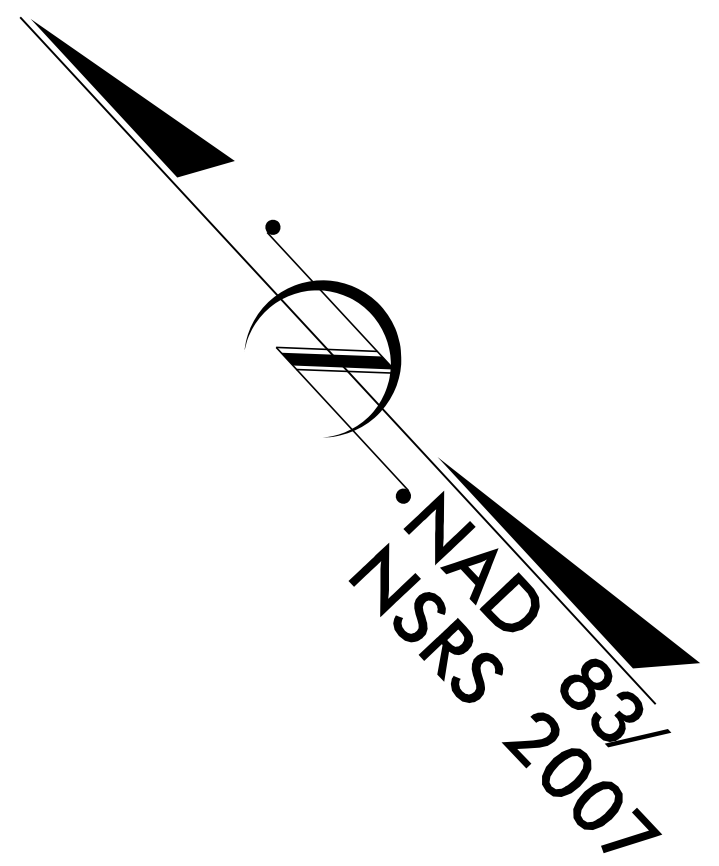
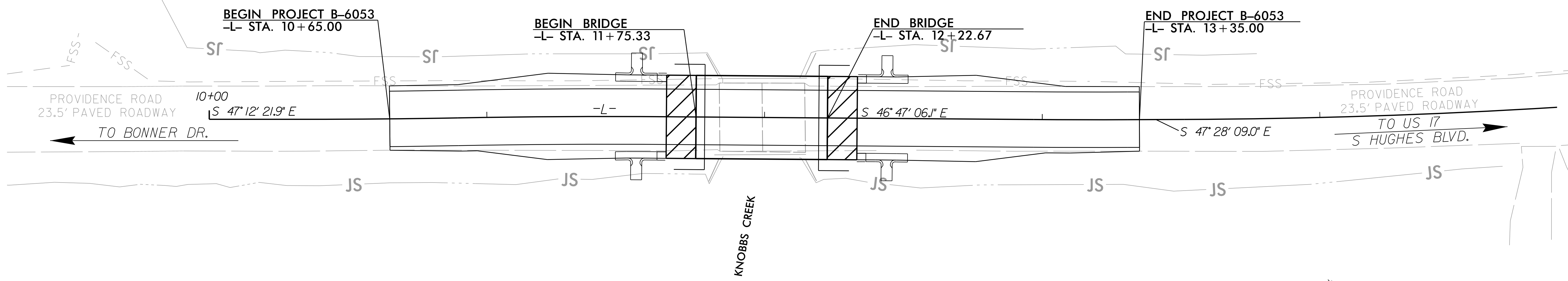
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

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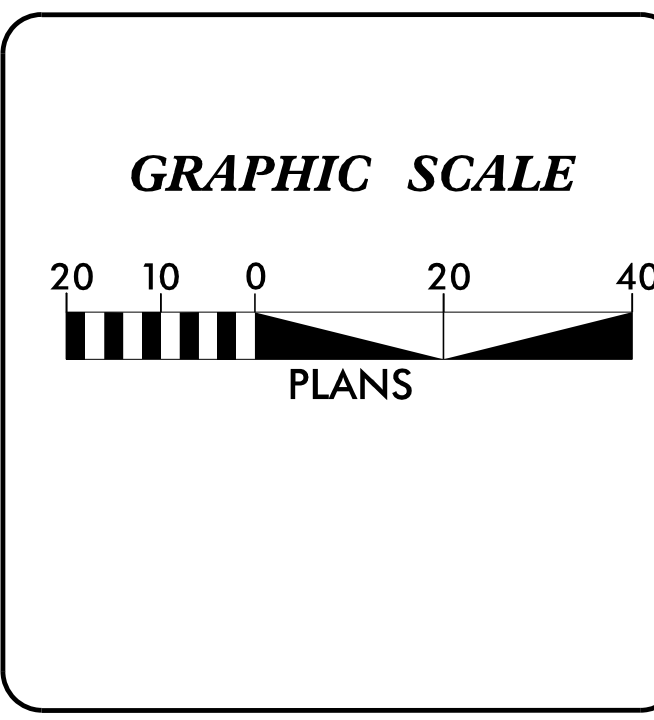
SURVEY CONTROL, EXISTING CENTERLINES,  
 RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

---

**PASQUOTANK COUNTY**



4/16/2021 B:\User\Badstein\B6053\Title Sheet.dgn jbadstein



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "KING" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 938377.2867(ft) EASTING: 2812085.6126(ft) ELEVATION: 7.383(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.000044576

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "KING" TO -L- STATION 10+00 IS 2191.378(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

**RUMMEL, KLEPPER & KAHL, LLP**  
 8601 SIX FORKS RD.  
 FORUM 1 SUITE 700  
 RALEIGH NC 27615

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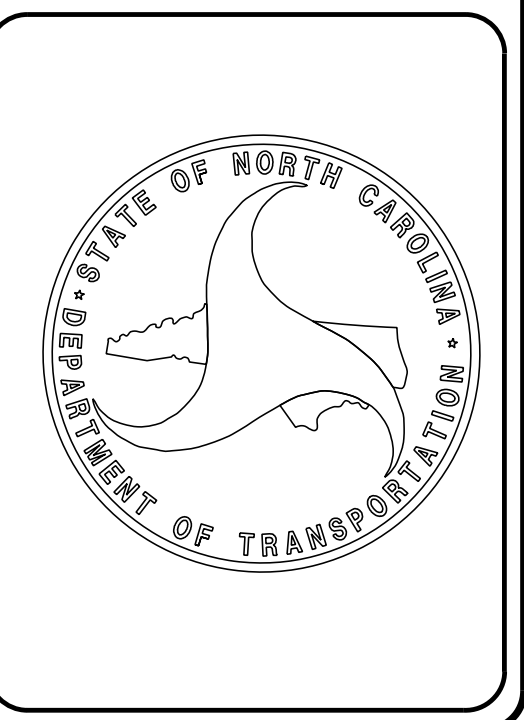
2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:** \_\_\_\_\_ **LETTING DATE:** \_\_\_\_\_

**PROFESSIONAL LAND SURVEYOR**


*David Sheehan* **04.15.2021**

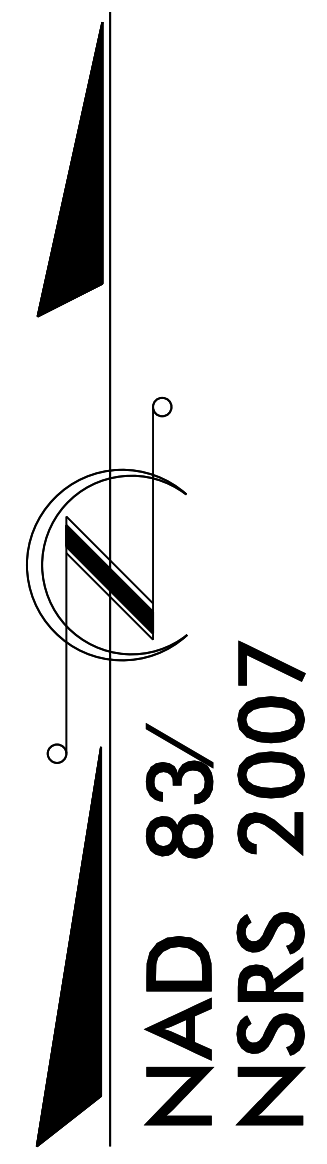
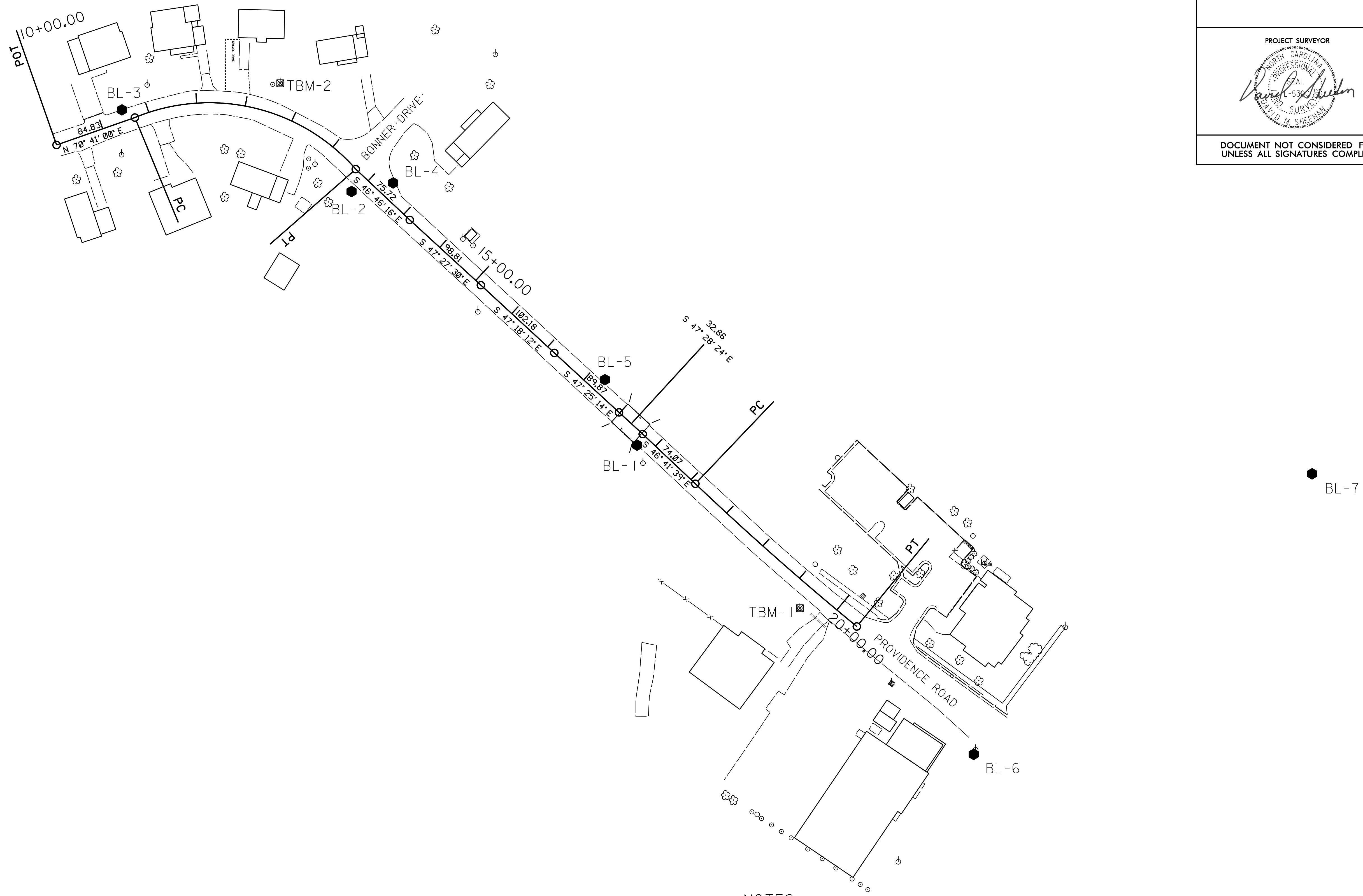
SIGNATURE: \_\_\_\_\_ Date: \_\_\_\_\_



# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. B6053	SHEET NO. RW02C-1
Location and Surveys	
INSERT CONSULTANT'S NAME	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




- NOTES:
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
  2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

4/16/2021  
B:\User\_Badstein\B6053\B6053.fs\_3D\B6053.ncd\dot.fs.dgn  
badstein

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. B6053	SHEET NO. RW02C-2
<b>Location and Surveys</b>	
RK&K LLP 8601 SIX FORKS ROAD FORUM 1 SUITE 700 RALEIGH NC 27615	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BASELINE POINT	DESC.	NORTH	EAST	ELEVATION
1	BL -6	936888.6700	2810641.0080	7.15
2	BL -7	937175.6600	2810987.1330	7.24
3	BL -1	937204.9886	2810296.7943	6.00
4	BL -2	937464.4323	2810004.6659	4.16
5	BL -3	937547.9308	2809769.7959	6.25
6	BL -4	937473.2496	2810047.2656	4.51
7	BL -5	937271.9252	2810263.8279	5.22

\*\*\*\*\*  
 2000            ELEVATION = 7.51  
 N 937575       E 2809932  
 TBM-2 POLE: 4/X1  
 \*\*\*\*\*

\*\*\*\*\*  
 2001            ELEVATION = 6.61  
 N 937038       E 2810463  
 TBM-1 POLE: 8010-9  
 \*\*\*\*\*

REVISIONS

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

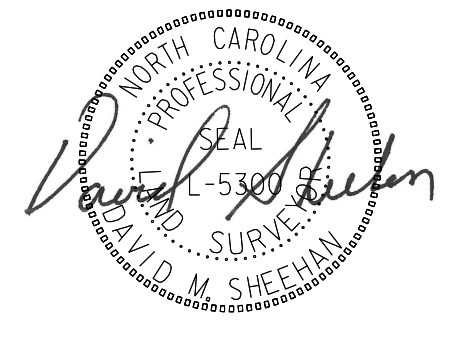
6/2/09

REVISIONS

4/16/2021  
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 badstein

# SURVEY CONTROL SHEET

*W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION*

PROJECT REFERENCE NO. B6053	SHEET NO. RW02C-3
Location and Surveys	
RK&K LLP 8601 SIX FORKS ROAD FORUM 1 SUITE 700 RALEIGH NC 27615	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	937511.993	2809702.970							
LINE			N 70°41'00.4" E	84.83					
PC	937540.053	2809783.024							
CURVE			S 76°50'52.8" E	232.07	71°21'05.1"(RT)	28°47'51.1"	247.77	142.84	198.96
PT	937487.250	2810009.004							
LINE			S 46°46'15.7" E	75.72					
POT	937435.388	2810064.175							
LINE			S 47°27'30.4" E	98.81					
POT	937368.583	2810136.974							
LINE			S 47°18'12.5" E	102.18					
POT	937299.292	2810212.073							
LINE			S 47°25'14.1" E	89.87					
POT	937238.482	2810278.251							
LINE			S 47°28'23.8" E	32.86					
POT	937216.269	2810302.470							
LINE			S 46°41'39.3" E	74.07					
PC	937165.463	2810356.372							
CURVE			S 48°30'47.5" E	220.35	04°08'28.8"(LT)	01°52'44.5"	220.40	110.25	3049.21
PT	937019.494	2810521.438							


**NOTES:**

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.



6/2/09

# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. B6053	SHEET NO. RW02D-1
<b>Location and Surveys</b>	
RK&K LLP 8601 SIX FORKS ROAD FORUM 1 SUITE 700 RALEIGH NC 27615	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

4/16/2021  
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Badstein


L

TYPE	STATION	NORTH	EAST
POT	10+00.00	937362.1043	2810143.5667
PC	10+35.00	937338.3265	2810169.2498
PRC	10+89.55	937301.6550	2810209.6338
PT	11+64.90	937250.7988	2810265.2266
PC	12+96.96	937160.3697	2810361.4734
PT	13+30.75	937137.3794	2810386.2374
PC	13+51.16	937123.5811	2810401.2794
PT	14+85.48	937035.6626	2810502.7987

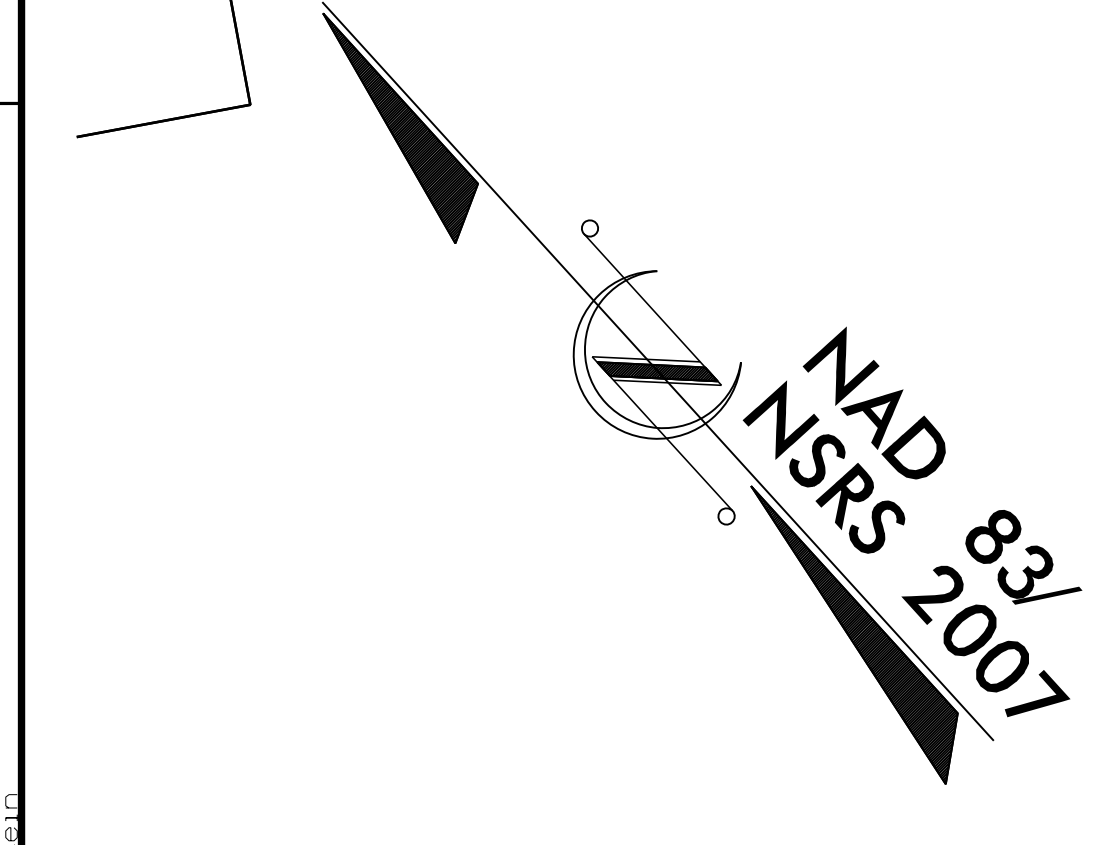
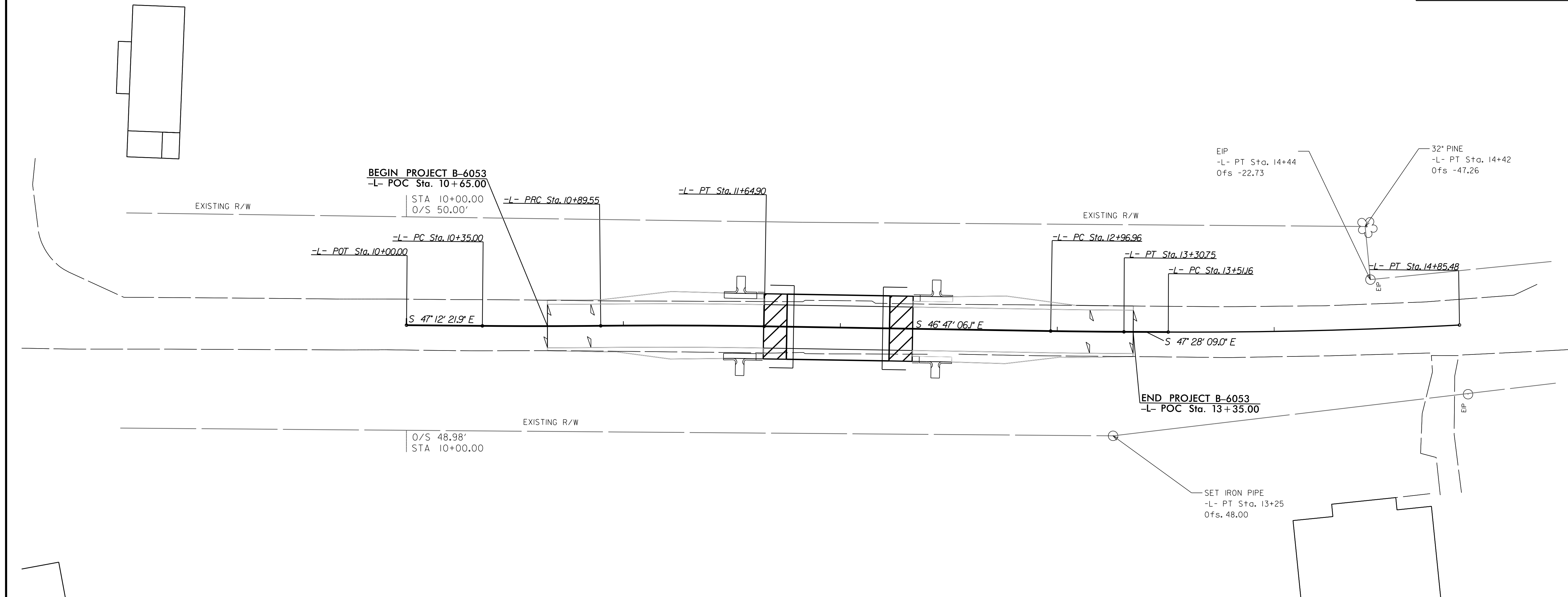
### NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

# RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. B6053	SHEET NO. RW04
<b>Location and Surveys</b>	
RK&K LLP 8601 SIX FORKS ROAD FORUM 1 SUITE 700 RALEIGH NC 27615	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS



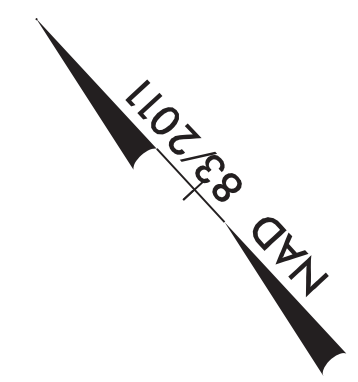
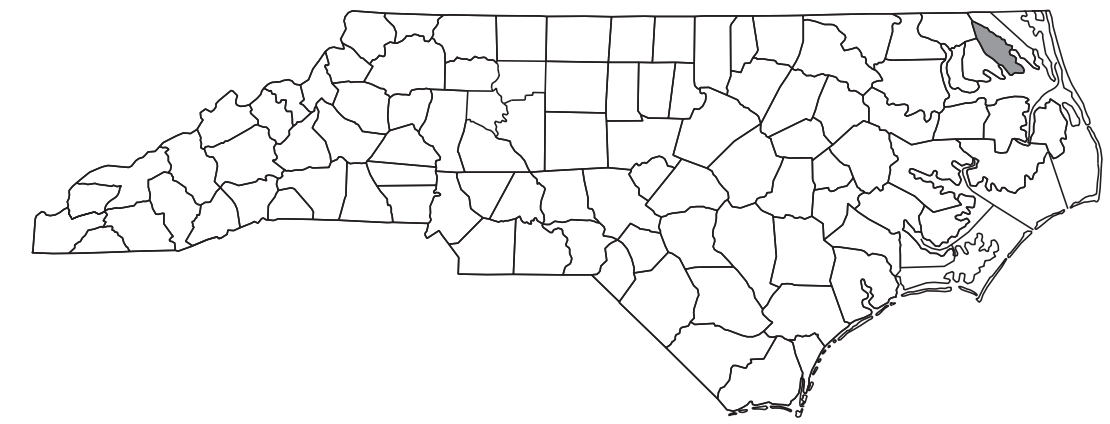
**NOTES:**

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

6/2/09  
 4/16/2021  
 B:\Users\Badstein\B6053\Proposed alignment and row.dgn  
 Badstein

**3.11. Final Plans:** Replace the prior Utility Construction plans with the following signed/sealed (permit approved) plans:

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-6053	UC-1	5
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
48754.1.1	STBG-0111(026)	P.E./R/W /UTIL	
48754.3.1	STBG-0111(026)	CONSTRUCTION	



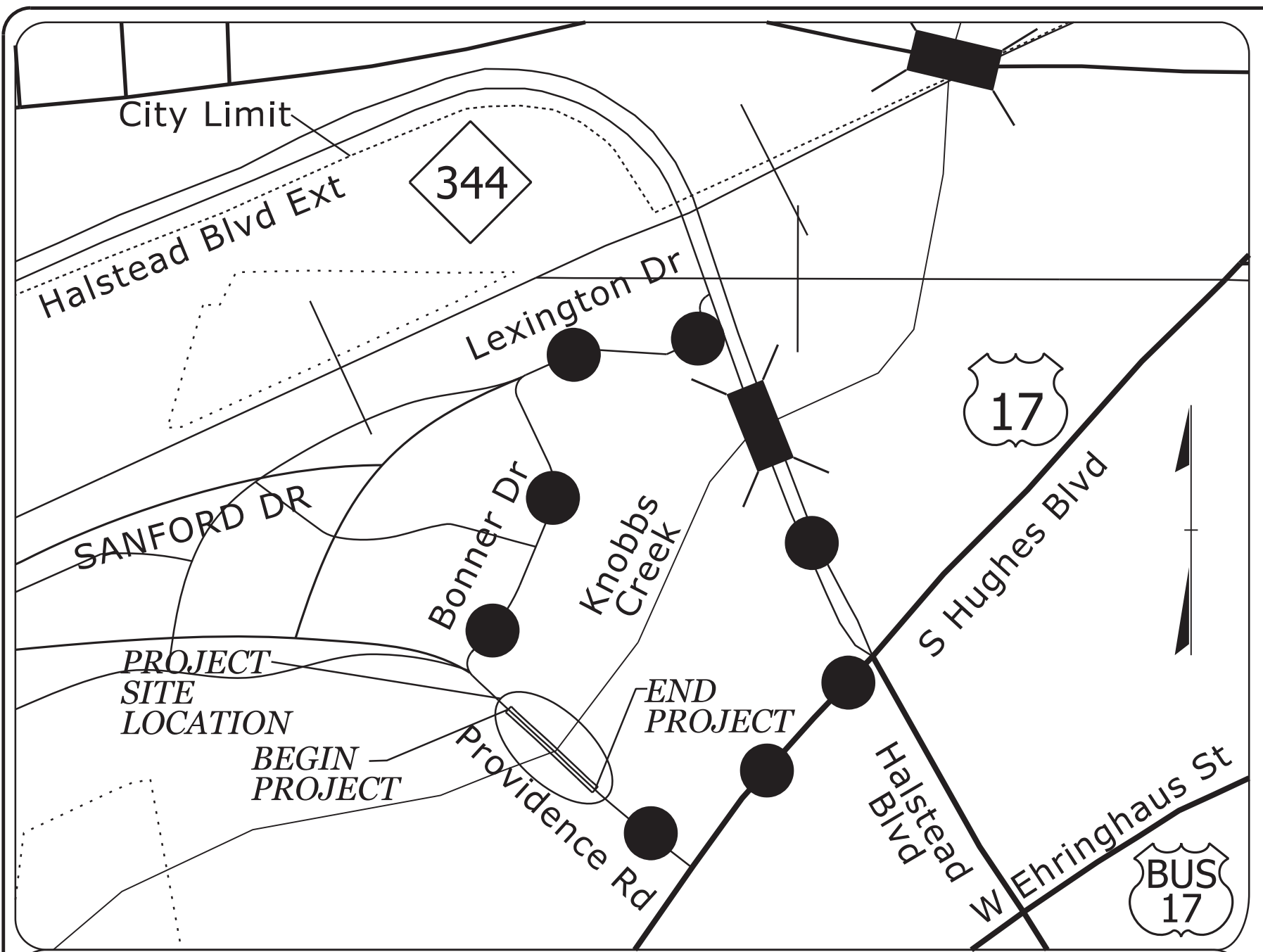
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# UTILITY CONSTRUCTION PLANS PASQUOTANK COUNTY

**LOCATION:** Bridge No. 690034 on Providence Road over  
Knobbs Creek in Elizabeth City

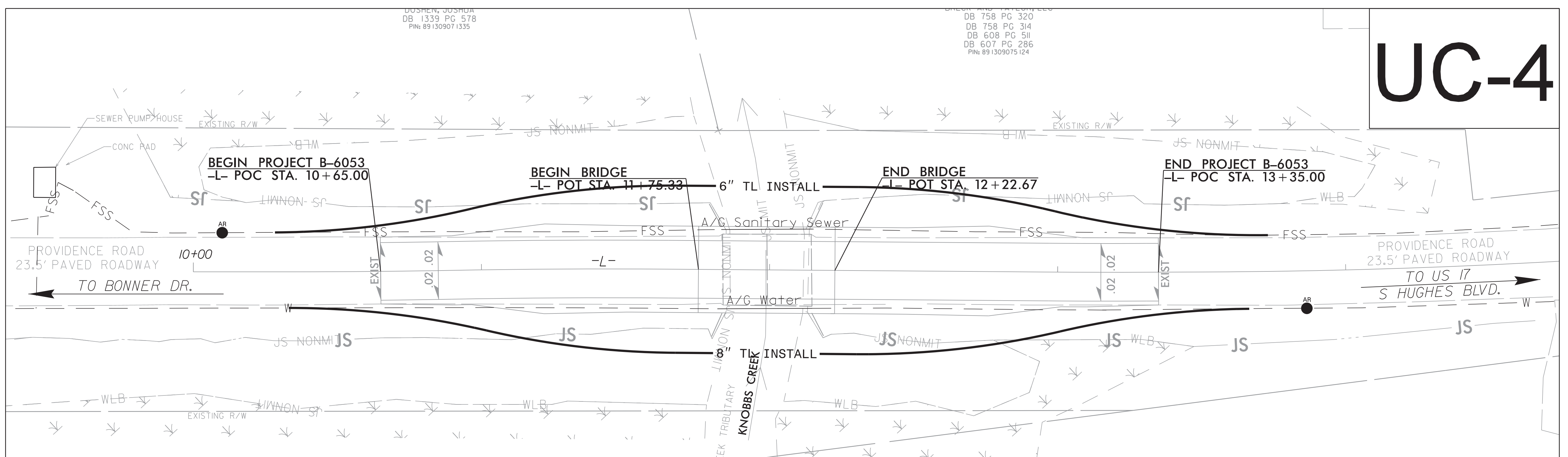
**TYPE OF WORK:** WATER AND SEWER  
RELOCATIONS

**TIP PROJECT: B-6053**



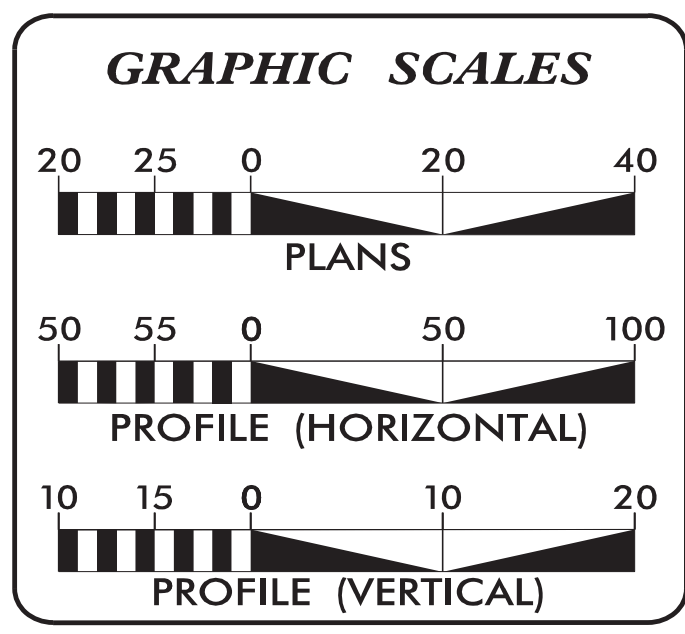
**VICINITY MAP**  
(NOT TO SCALE)

**OFF SITE DETOUR** ● ● ● ● ●



**UC-4**

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF ELIZABETH CITY.



**INDEX OF SHEETS**

SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A	DETAILS
UC-4	UTILITY RELOCATION PLAN & PROFILE

**WATER AND SEWER OWNER ON PROJECT**

(A) WATER - ELIZABETH CITY  
(B) SANITARY SEWER - ELIZABETH CITY

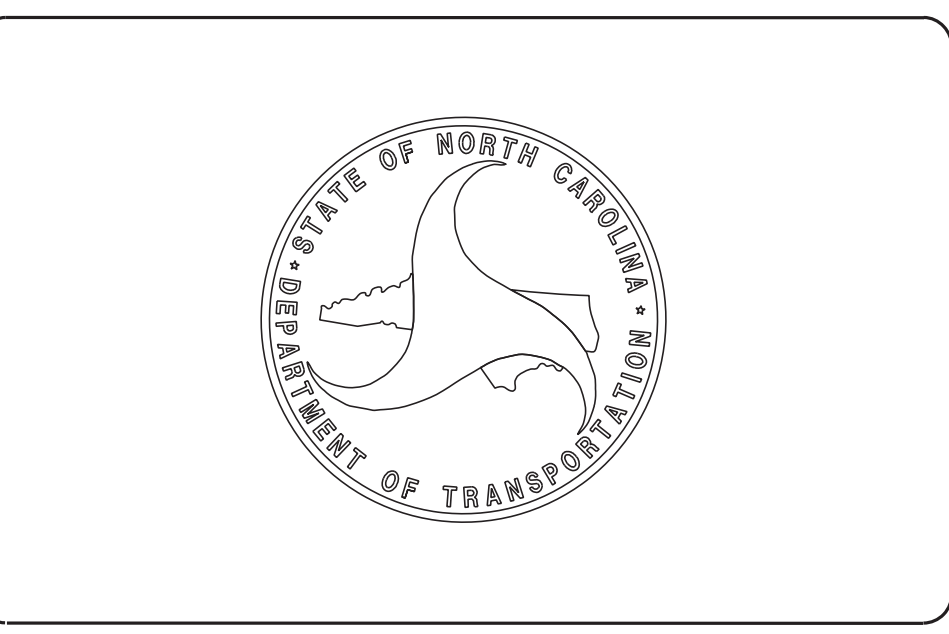
PREPARED IN THE OFFICE OF

**RK&K**  
P. (919) 678-6560  
8001 Six Forks Road, Fourth Floor 700  
Raleigh, North Carolina 27615-3990  
NC License No. E-11172  
www.RK.com  
Responsive People | Creative Solutions

HOWARD WOODALL, PE CONSULTANT CONTACT #1  
BRYAN BADEY, PE CONSULTANT CONTACT #2  
ZACK ELLERBY CONSULTANT CONTACT #3

SEAL

**NORTH CAROLINA PROFESSIONAL ENGINEER**  
SEAL 25881  
HOWARD T. WOODALL  
Digitally signed by Howard T. Woodall  
Date: 2021.05.03 07:39:56-04'00'



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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# UTILITIES PLAN SHEET SYMBOLS

## PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11 1/4 Degree Bend	
22 1/2 Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	
Water Meter	
Relocate Water Meter	
Remove Water Meter	
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

## PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

## PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	
Underground Conduit	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

## EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records		Sanitary Sewer Cleanout	
End of Information			

\*For Existing Utilities  
 Utility Line Drawn from Record (Type as Shown)   
 Designated Utility Line (Type as Shown)

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# UTILITY CONSTRUCTION

## GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
2. THE EXISTING UTILITIES BELONG TO ELIZABETH CITY. THE CONTACT PERSON FOR ELIZABETH CITY IS DWAN BELL AT DBELL@CITYOFEC.COM.
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.


6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

## PROJECT SPECIFIC NOTES:

1. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.
2. IF HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL. IT SHALL BE FILLED WITH WATER AND NOT BE CONNECTED TO ANY OTHER PIPE OR FITTINGS FOR ONE WEEK FROM THE TIME OF INSTALLATION.

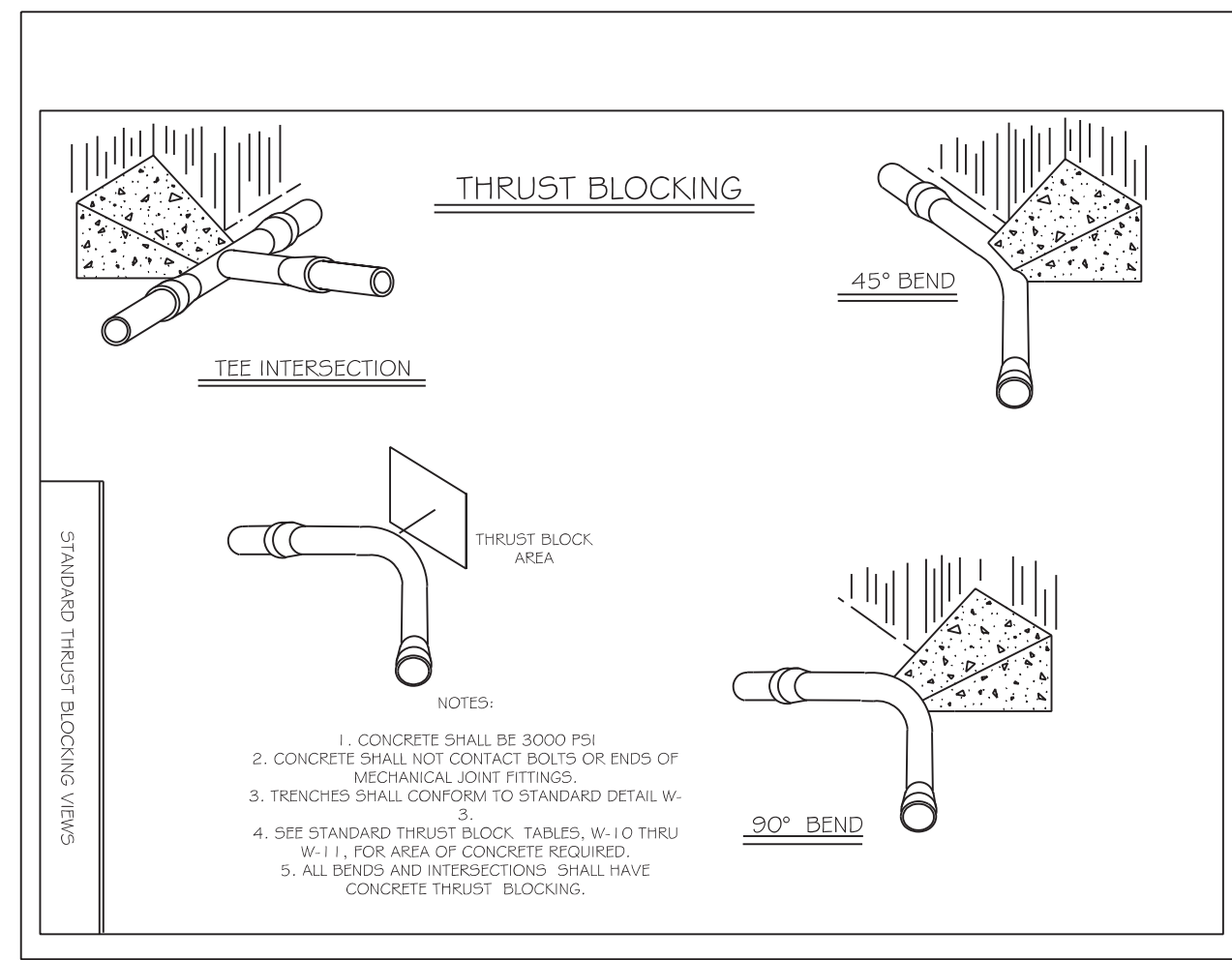
## LIST OF STANDARD DRAWINGS

- 1525.06 PRECAST CONCRETE SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BOTTOM
- 1101.02 ROADWAY CLOSURE DETAILS

PROJECT REFERENCE NO.	SHEET NO.
B-6053	UC-3
RW SHEET NO.	
UTILITY ENGINEER	
	
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# PROJECT TYPICAL DETAILS



REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS  
BASED ON TEST PRESSURE OF 200 P.S.I.

ALL AREAS GIVEN IN SQUARE FEET

SIZE AND DEGREE OF BEND	STATIC THRUST IN POUNDS	CONCRETE REQUIRED IN CUBIC FEET	MINIMUM 2000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 3000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 4000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 5000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 6000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 7000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 8000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET
6"									
1 1/4"	1,105	1	1	1	1	1	1	2	1
2 1/2"	2,207	1	2	2	1	1	1	3	1
4"	4,325	2	3	3	1	1	2	5	1
90°	7,996	2	4	5	1	1	2	5	1
PLUG	5,655	2	3	4	1	1	2	4	1
8"									
1 1/4"	1,970	1	1	2	1	1	1	2	1
2 1/2"	3,922	1	2	3	1	1	1	4	1
4"	7,694	2	4	5	1	1	2	5	1
90°	14,215	4	6	9	2	2	4	15	2
PLUG	10,093	3	5	6	2	2	3	10	1
12"									
1 1/4"	4,433	2	3	3	1	1	2	5	1
2 1/2"	8,826	3	5	6	2	2	3	9	1
4"	17,312	5	9	11	3	3	5	16	2
90°	31,963	8	16	19	4	4	6	32	4
PLUG	22,619	6	12	14	3	3	6	23	3
16"									
1 1/4"	7,881	2	4	5	1	1	2	5	1
2 1/2"	15,621	4	6	10	2	2	4	16	2
4"	30,779	6	16	19	4	4	6	31	4
90°	56,861	15	29	35	8	8	15	57	6
PLUG	40,213	10	21	25	5	5	10	41	5

REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE FROM THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.

USE 6" - 90° BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTOR.

**THRUST BLOCKING DESIGN QUANTITY TABLE**

REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS  
BASED ON TEST PRESSURE OF 200 P.S.I.

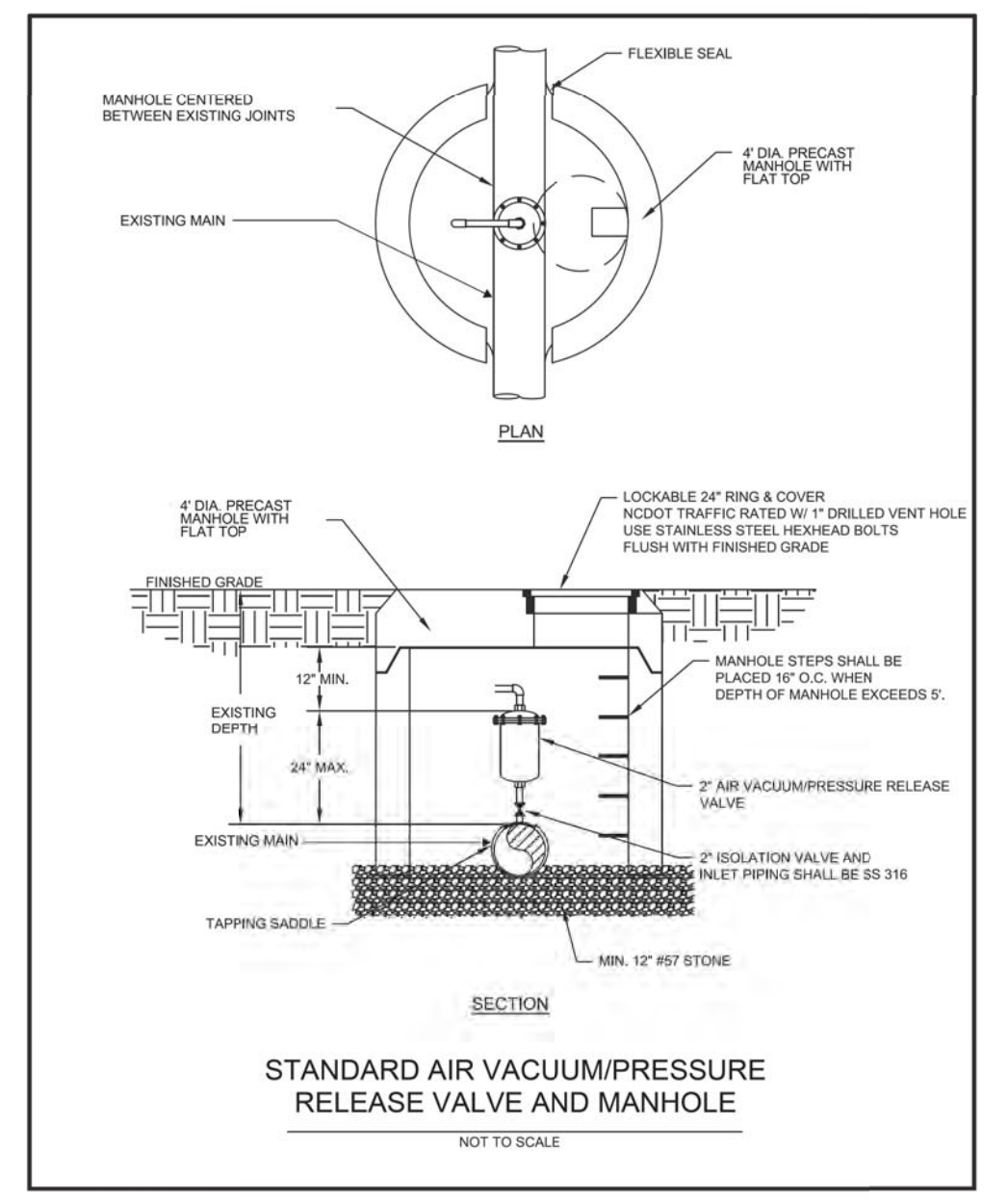
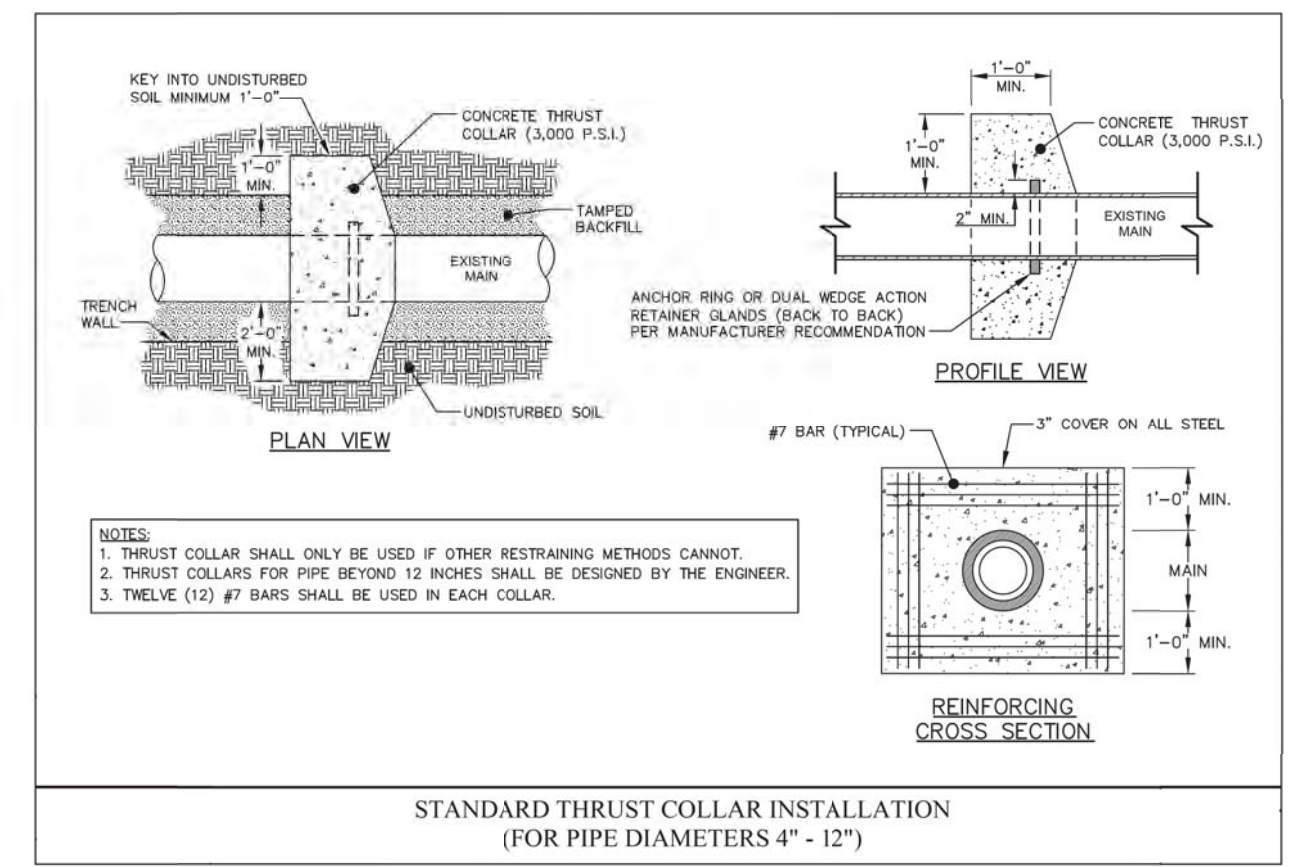
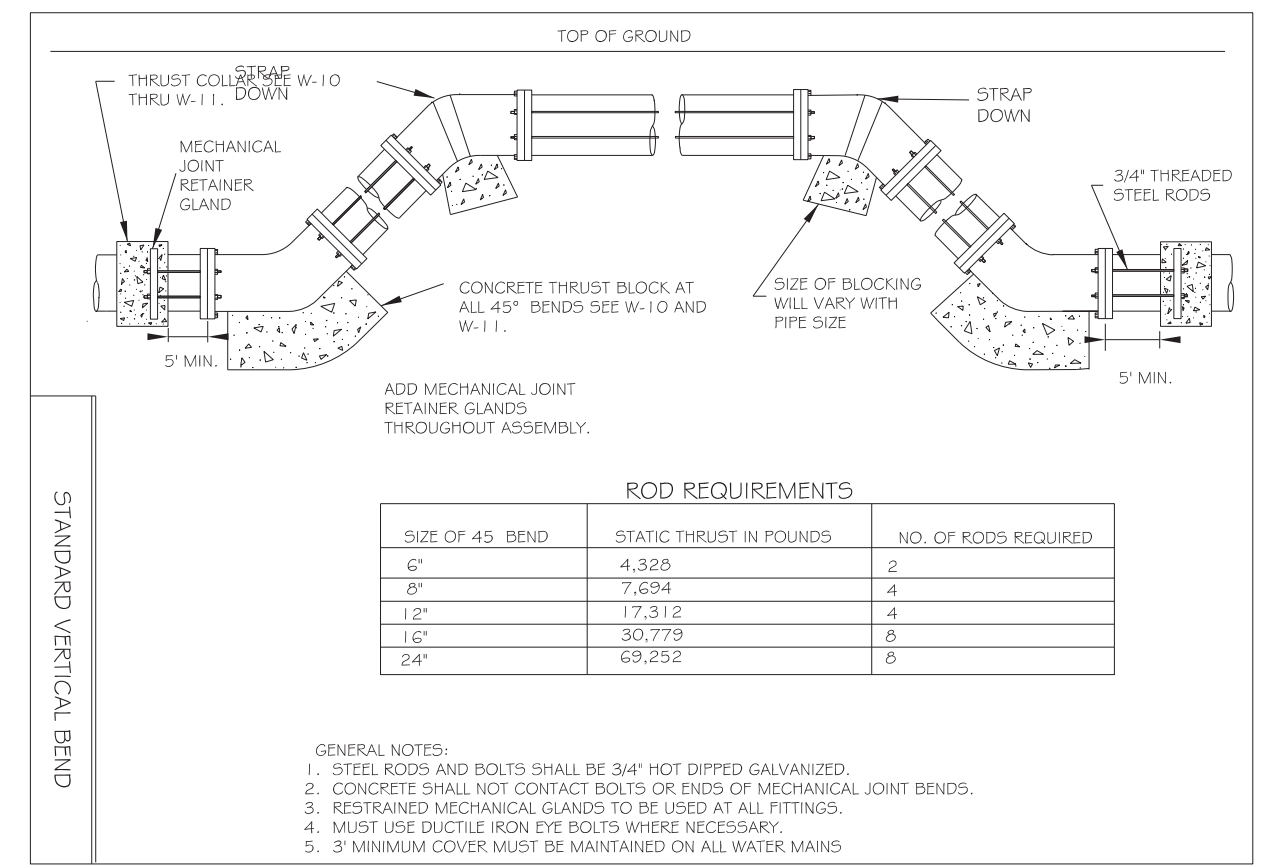
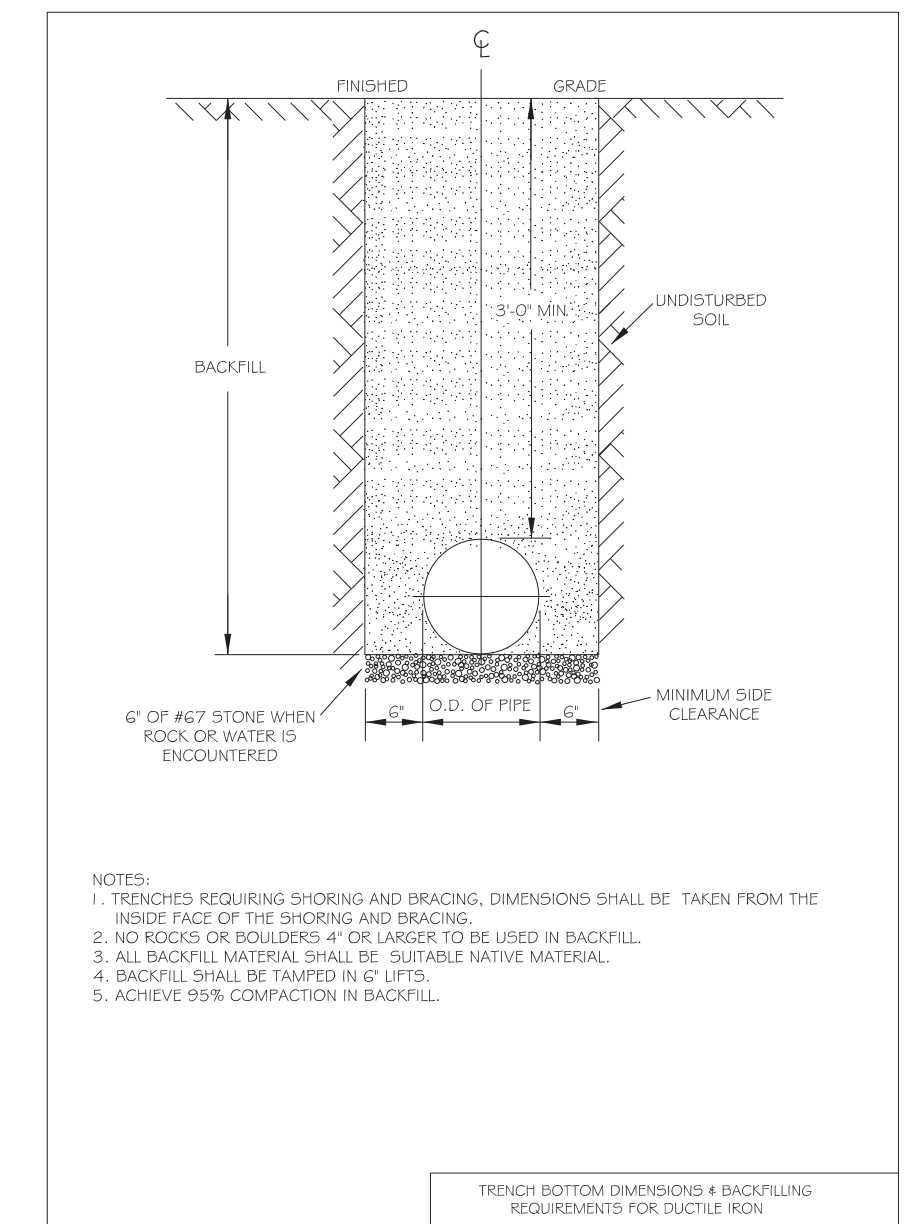
ALL AREAS GIVEN IN SQUARE FEET

SIZE AND DEGREE OF BEND	STATIC THRUST IN POUNDS	CONCRETE REQUIRED IN CUBIC FEET	MINIMUM 2000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 3000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 4000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 5000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 6000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 7000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET	MINIMUM 8000 P.S.I. CONCRETE REQUIRED IN SQUARE FEET
24"									
1 1/4"	17,734	5	9	11	3	3	5	16	2
2 1/2"	35,305	9	18	22	5	5	9	36	4
4"	69,252	16	35	42	9	9	16	70	7
90°	127,294	32	64	77	16	16	32	125	13
PLUG	90,479	23	46	55	12	12	23	91	10
30"									
1 1/4"	27,709	7	14	17	4	4	7	2	3
2 1/2"	55,163	14	28	34	7	7	14	56	6
4"	108,206	28	55	65	14	14	28	109	11
90°	199,904	50	100	120	25	25	50	200	20
PLUG	141,375	36	71	85	18	18	36	142	15
36"									
1 1/4"	39,901	10	20	24	5	5	10	40	4
2 1/2"	79,439	20	40	48	10	10	20	80	8
4"	155,816	39	78	94	20	20	39	156	16
90°	287,655	72	144	172	36	36	72	288	29
PLUG	203,575	51	102	122	26	26	51	204	21
48"									
1 1/4"	70,935	18	36	43	9	9	18	71	8
2 1/2"	141,216	36	71	85	18	18	36	142	15
4"	277,007	70	139	166	35	35	70	277	28
90°	511,742	128	256	320	64	64	128	512	52
PLUG	361,911	91	181	217	46	46	91	362	37

REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE FROM THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.

USE 6" - 90° BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTOR.

**THRUST BLOCKING DESIGN QUANTITY TABLE**





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BEGIN HDD RELOCATION 10+28 -SL-1-

TIE IN TO EXISTING 4" FSS WITH DIP/HDPE ADAPTER AND BENDS

15' MIN. PIPE RESTRAINT

INSTALL ARV IN 4' DIA. MANHOLE 10+10 AND RESTORE PAVEMENT TO EXISTING CONDITIONS

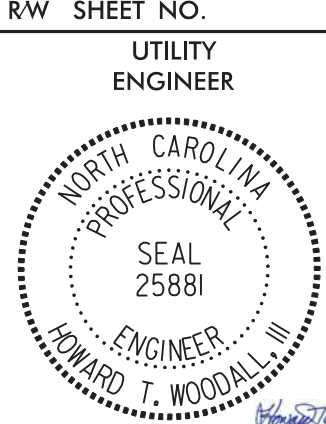
347 LF DIRECTIONAL DRILLING OF 6" HDPE DR-9 FSS

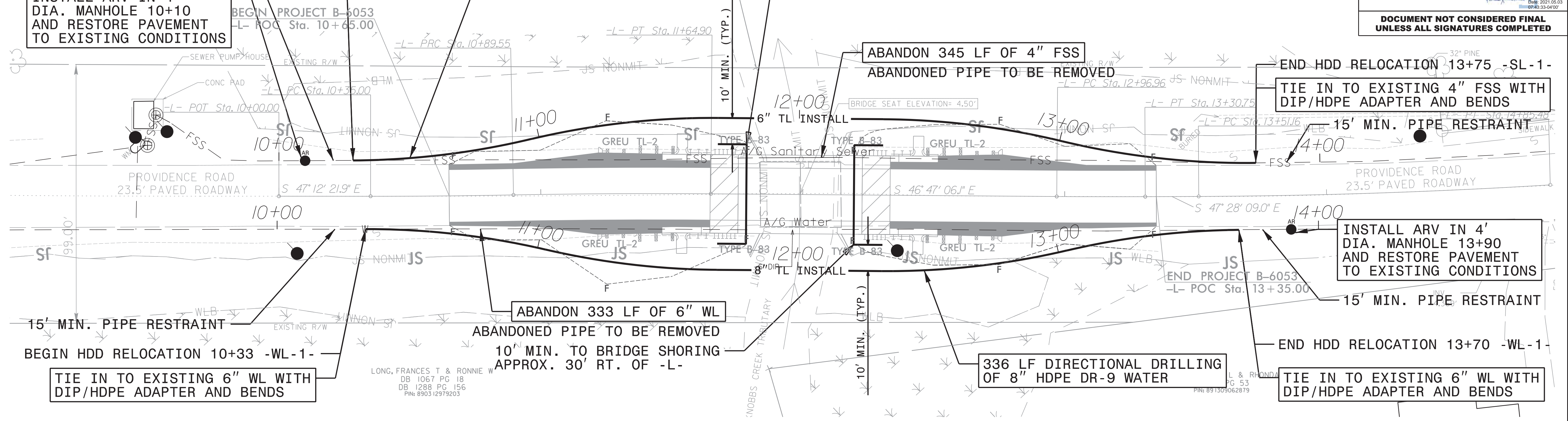
10' MIN. TO BRIDGE SHORING APPROX. 30' LT. OF -L-

BRECK AND TAYLOR, LLC  
 DB 758 PG 320  
 DB 758 PG 314  
 DB 608 PG 511  
 DB 607 PG 286  
 PIN: 891309075124

THE ESTIMATED QUANTITY OF DUCTILE IRON SEWER PIPE FITTING ON THIS PLAN SHEET IS XXXX POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

PROJECT REFERENCE NO. B-6053	SHEET NO. UC-4
RW SHEET NO.	
UTILITY ENGINEER	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

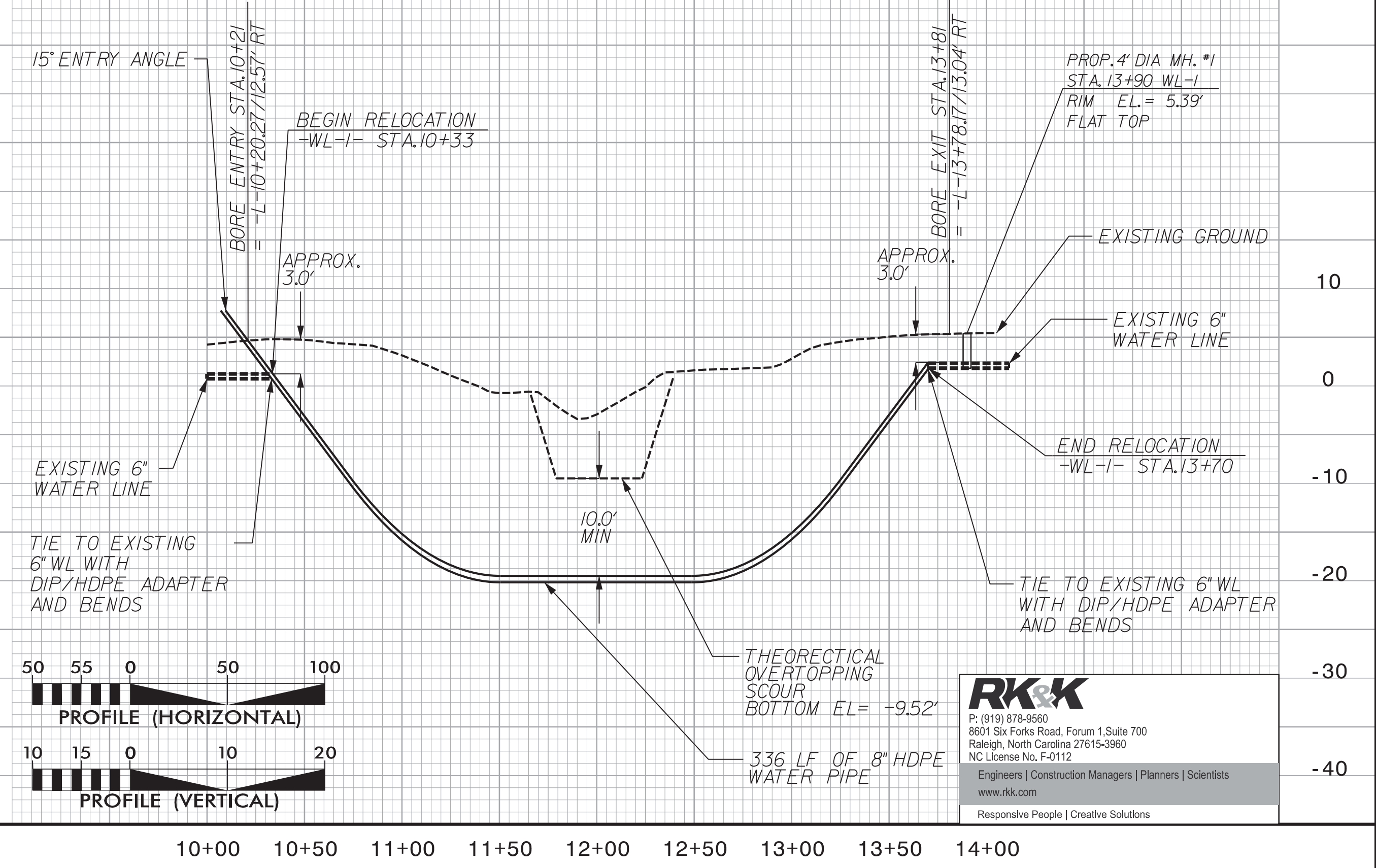
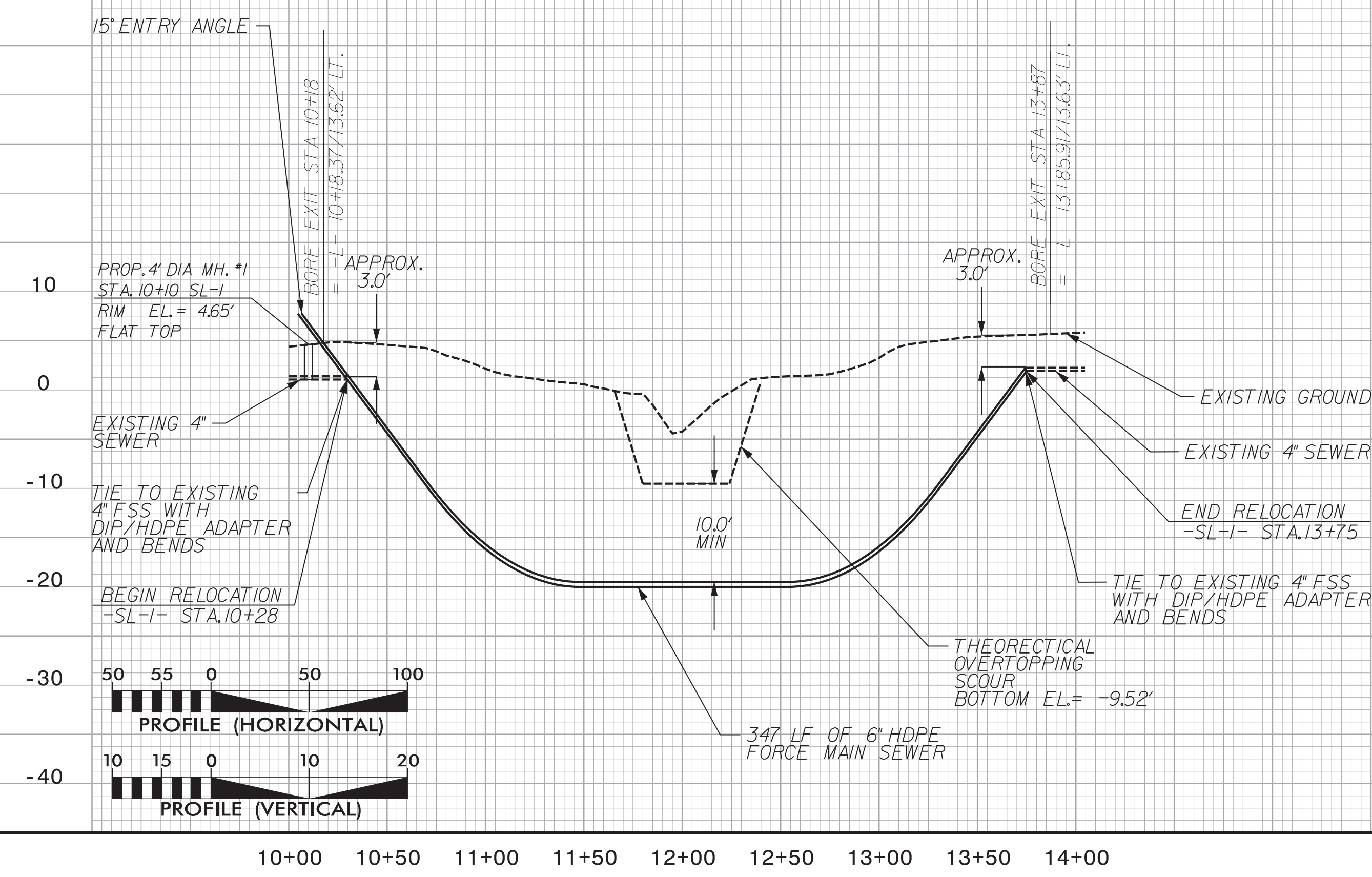


**-SL-1-**

NOTE: ADJUST ENTRY AND EXIT POINTS TO MATCH FIELD CONDITIONS. STATIONS AND OFFSETS SHOWN ARE APPROXIMATE.

**-WL-1-**

NOTE: ADJUST ENTRY AND EXIT POINTS TO MATCH FIELD CONDITIONS. STATIONS AND OFFSETS SHOWN ARE APPROXIMATE.



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