

In The Matter Of:
Department of Transportation

Pre-Bid Meeting
July 25, 2019

Wilcox & Fetzer, Ltd.
1330 King Street
Wilmington, DE 19801
email: depos@wilfet.com, web: www.wilfet.com
phone: 302-655-0477, fax: 302-655-0497



THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

IN THE MATTER OF:
Mandatory Pre-Bid Meeting
Bid Proposal for Contract T201207101.02
Federal Aid Project No. EBRN-N159(2)
CFDA No. 20.205
BR 1-159 on James Street Over Christina River
New Castle County
Advertisement Date: July 9, 2019
Completion Date: 632 Calendar Days

.. . . .

Delaware Department of Transportation
Bidder's Room
Transportation Administration Center
800 Bay Road
Dover, Delaware

Thursday, July 25, 2019
2:00 p.m.

.. . . .

BEFORE: Connie Ivins
Competitively Bid Contracts Coordinator

PRESENTING: Catherine Chia-Calabria, P.E.
McCormick Taylor

ALSO PRESENT FROM DELDOT BRIDGE DESIGN:
Jason Hastings, M.C.E., P.E.
Michael Gettings, M.C.E., P.E.
Craig Stevens, P.E.

.. . . .

-- Transcript of Proceedings --

WILCOX & FETZER
1330 King Street
Wilmington, DE 19801
(302) 655-0477
www.wilfet.com

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

TABLE OF CONTENTS

PAGE

| | |
|--|----|
| Introduction by Ms. Ivins | 3 |
| Presentation by Ms. Chia-Calabria | 8 |
| Statement by Mr. Hastings | 33 |
| Comment by Mr. Morlee with TransGen Energy . | 34 |
| Closing Comment by Ms. Ivins | 35 |
| Certificate of Reporter | 36 |

1 MS. IVINS: Okay. Good afternoon,
2 everyone. We are going to get started with
3 our pre-bid meeting.

4 My name is Connie Ivins, and I'm a
5 Contracts Coordinator here with DelDOT.

6 Today you are attending a mandatory
7 pre-bid meeting for Contract Number
8 T201207101.02. This is Bridge 1-159 on James
9 Street over Christina River, New Castle
10 County.

11 This meeting has been requested by
12 the project engineers in attendance.

13 I have a sign-in sheet going around
14 the room, so I ask that you please fill in
15 all the information. Please write as neat as
16 you can, since it will be posted on the
17 website. We would appreciate it.

18 As I stated, this is a mandatory
19 pre-bid meeting, so your company must be
20 signed in in order to submit a bid.

21 We also have a court stenographer
22 here today to create a transcript of the
23 meeting.

24 I ask that if you have a question,



1 please state your name and the company you
2 represent before each question or statement.

3 I also ask that only one person
4 speak at a time so we can have this
5 transcribed properly.

6 A transcript of this meeting and
7 the sign-in sheet will be posted on the
8 website.

9 If you have any questions after the
10 meeting adjourns, please e-mail them to
11 DOT-Ask@state.de.us. And be aware that you
12 should get your questions in at least six
13 days prior to the bid date to make sure you
14 give us time to get a response out to you.

15 If you wait past that time, it's
16 kind of pushing it, and you might not get an
17 answer.

18 Before I turn the meeting over to
19 the project manager, I would like to go over
20 a few of the prospective bidders' notes.

21 Note number seven, DBE Program
22 Requirements: Require submission of DBE
23 participation information from the apparent
24 low bidder no later than five calendar days



1 after bid opening.

2 There is an 8 percent DBE goal for
3 this project.

4 As a reminder, if you cannot meet
5 this goal, you will need to submit good-faith
6 effort documentation with your bid.

7 Guidance for submitting a
8 good-faith effort is identified in the bid
9 proposal under critical DBE requirements, and
10 guidance for good-faith effort, and in the
11 DBE program plan.

12 Note Number 10: The August 2001
13 Standard Specifications apply to this
14 contract.

15 Please be aware of any revisions
16 and corrections. And those documents can be
17 found on the website.

18 Note Number 11: Proposed Trainee
19 Plans. The number of trainees to be provided
20 will be one, as listed in the training
21 Special Provisions within contract general
22 notices.

23 The program must be submitted
24 online at <https://deldotojt.com> as soon as



1 possible by the apparent low bidder.

2 Award of the contract will not take
3 place until acceptance on-the-job training
4 program plans are received and approved by
5 the Department's Civil Rights Section.

6 Note Number 13 addresses contract
7 suspension for utility relocations to take
8 place.

9 Note Number 14 addresses monitoring
10 of 72-inch CRFM.

11 Note Number 15 addresses
12 contractors' pollution liability insurance
13 requirements and additional insureds'
14 requirements.

15 Note Number 16 addresses
16 supplemental language for Section 102.05,
17 examination of plan specifications, bid
18 proposal, and site of work in the Standard
19 Specifications.

20 Note Number 17 addresses road user
21 costs and liquidated damages.

22 In the back of the bid proposal,
23 you will find the bid forms. Do not leave a
24 bid amount blank. Do not enter a unit price



1 of zero.

2 If a bidder enters a unit price of
3 zero or fails to provide a unit price for
4 every pay item indicated, then that bid will
5 be declared irregular and will be rejected.

6 Please use the CD provided to enter
7 your bid amounts into the EBSX file.

8 After you have entered your prices,
9 you will need to save the file back to the CD
10 and print the bid forms from the EBSX.

11 You need to submit both the
12 completed electronic EBSX file and the
13 printout from EBSX.

14 Remember, all figures must be
15 typewritten.

16 The next form would be the
17 affidavit of employee drug testing program.
18 Make sure it is filled out properly, signed,
19 notarized, and submitted with your bid.

20 The next page would be the
21 certification. At the top of the page it
22 asks for the undersigned bidder. That is
23 your company name, address, and phone number.

24 At the bottom of the page is where



1 you will enter your DBE goal that we
2 discussed earlier.

3 On the second page, you will need
4 to acknowledge all addendums, enter the
5 addendum number, and the date of the
6 addendum.

7 You also need to enter the date of
8 final questions and answers, which can be
9 found on the website. Make sure it is filled
10 out properly, signed, sealed, and notarized
11 and submitted with your bid.

12 The last page would be the bid
13 bond. Your bid bond must be accompanied by
14 deposit -- I'm sorry -- your bid must be
15 accompanied by deposit of either a surety
16 bond or security for a sum equal to at least
17 10 percent of your total bid price.

18 Does anyone have any questions?
19 Okay. I will turn it over to the project
20 managers.

21 MS. CHIA-CALABRIA: Okay. Good
22 afternoon, everyone. My name is Catherine
23 Chia-Calabria. Sorry for keeping you guys
24 waiting, ladies and gentlemen. We had a



1 little bit of accident traffic going on SR-1.
2 So we are here now, so we can get started.

3 So before I run through the slides,
4 this project originally was bid back in
5 2015-2016.

6 There are some slight changes to
7 that. So, if you have seen the previous bid
8 proposal, you will notice there are some
9 changes that were made.

10 So original construction in 1929,
11 single leaf bascule span with two approach
12 spans. These plans are actually available on
13 the DelDOT bid website, supplemental plans.

14 The bridge was rehabbed in 1986.
15 Again, the plans are available on the DelDOT
16 bid website.

17 Some emergency repairs in 2009,
18 2010. Stringers were replaced. The grid
19 deck is replaced. I believe these plans are
20 also made available on the DelDOT bid
21 website.

22 Some interim repairs in 2015.

23 Are these available on the bid
24 website?



1 MR. HASTINGS: Probably not.

2 MS. CHIA-CALABRIA: I'm not sure
3 that they are.

4 MR. HASTINGS: They were done by
5 maintenance, so we don't have as-builts or
6 anything on them.

7 MS. CHIA-CALABRIA: So the access
8 problem area, as I see you call it, there is
9 a -- let's see if this mouse works. All
10 right.

11 Right here, this is James Street
12 under the Amtrak Bridge. Clearance is pretty
13 low there. So the trucks typically, today,
14 when they are coming out of the Newport
15 Industrial Park, they can't make it under
16 this bridge, and they have to use the James
17 Street Bridge, the one that we are going to
18 be replacing shortly.

19 Let's go here. So there are some
20 traffic restrictions. And in the bid set,
21 the bid plans, Sheet CS-01, make sure you go
22 there and read all those notes.

23 So, you know, there are active
24 businesses in that area, BASF, the Newport



1 Industrial Park. You know, we do have to
2 maintain vehicular access to those active
3 businesses.

4 I think you had mentioned some of
5 these notes in the notes to prospective
6 bidders. You know, you will see them
7 repeated here. So make sure you go to the
8 bid proposal and read through these notes.

9 There is the road user costs and
10 liquidated damages. It tells you when, you
11 know, you can close the road for certain
12 things. Make sure you go in and read that.

13 So there is some contact
14 information shown here from Newport
15 Industrial Park, Bill Lower, part of Newport,
16 Wendy King, BASF and Waste Management. But
17 those names and contact information will be
18 provided at the preconstruction meeting.

19 There is a historic building, the
20 Krebs Building, which is right at that
21 intersection of James Street and Water
22 Street.

23 Again, go to the Bid Plans Sheet
24 PN-01, you know, read up on those notes. If



1 I'm going too fast or if any questions, you
2 know, feel free to speak up.

3 Permits have been obtained. There
4 is one that will expire before the project
5 gets completed. That's the New Castle County
6 floodplain.

7 Unfortunately, they only extend it
8 like around six months at a time. Sometimes
9 they might go a little bit longer.

10 But, you know, DelDOT is
11 continuously in conversation with the
12 agencies. We are going to keep an eye on
13 these expiration dates and, you know, we will
14 make sure that nothing expires that will stop
15 the work.

16 And on Plan Sheet EC-01, there are
17 notes in there about, you know, the permits,
18 you know, what the restrictions are.

19 There are some in-stream
20 restrictions. There is the bird, migrating
21 bird restriction. And this environmental
22 statement towards the end of the bid
23 proposal, a lot of information in there, so,
24 you know, go through and make sure you read



1 up on that and understand what's required.

2 I mentioned about the in-stream
3 restrictions and the birds, March 1st through
4 June 30th, so no in-stream work.

5 And then, as far as the migratory
6 birds are concerned, the restriction is from
7 April 15 to August 1st. But if you get the
8 netting in before April 15, then the birds
9 won't be able to nest underneath the existing
10 bridge, and you can work -- should be able to
11 work, you know, do your work without any
12 restrictions. But you have to get the
13 netting in there April 15, and then you will,
14 you know, probably just keep it on there.

15 There is no netting requirement for
16 the new bridge that you are going to be
17 constructing. You know, obviously, the birds
18 haven't nested there yet. And you will be
19 creating all kinds of noise and commotion,
20 and they won't want to nest there.

21 So there are some requirements also
22 in the bid plan on Sheet EC-01, the notes,
23 and also the environmental statement that
24 talks about no grubbing in the wetlands. And



1 there is temporary composite mast that you
2 would need to use to support any equipment
3 that's crossing the wetlands.

4 And I always have a hard time
5 saying subaqueous. Somehow my -- I'm not
6 sure -- my A, my Q, and my U just does not
7 work together.

8 U.S. Coast Guard coordination: The
9 Christina River, as it crosses under the
10 bridge, there is some boating traffic. I
11 think there are hunters that, you know, might
12 get on their boats and go back and forth
13 underneath the bridge.

14 So you have to, you know, make it
15 available for them to still use that
16 waterway. So there is that Coast Guard
17 coordination.

18 There is a superfund site on the
19 south end of the bridge. There is a liner
20 cap. And on Plan Sheet CS-01, there are some
21 detailed notes in there. Go and read up on
22 those, you know, the precautions that need to
23 be taken so that you don't puncture the
24 liner.



1 Some information up here for the
2 superfund site coordination, from the DelDOT
3 side, Jeff Leonard is the HAZ-MAT program
4 manager.

5 The phone number that's shown on
6 construction notes on the Plan Sheet CS-01 is
7 actually an out-of-date phone number. This
8 is the right phone number, 302-894-6308.

9 And for Chemours, it's Sebastian
10 P.J. Harrison. And then for Parsons is Ann
11 Logue. And the information that you see here
12 is actually correct also on the Plan Sheet
13 CS-01.

14 Utility relocation: There are
15 suspension of time charges. And in the bid
16 proposal, Note Number 13 in the prospective
17 bidders notes. This is addressed in great
18 detail as to, you know, when the suspension
19 of time charges start, so please go and read
20 through those notes.

21 I wanted to point out that there
22 are existing overhead utilities on the
23 eastern side of the bridge, and those are
24 going to get relocated. These slides here,



1 you know, show pretty much where they are
2 currently.

3 And the one that is shown in red is
4 where they are proposed to be relocated to.
5 It's between the new bridge and the SR-141,
6 that high bridge over the Christina River.

7 Now, there is, you know, maybe some
8 concern about your crane placement and, you
9 know, reaching to pick up beams, equipment,
10 whatever. You know, where those -- you have
11 to be aware that the relocated aerial
12 utilities, that will be the permanent
13 location, what you see in red there, when you
14 go and build the new bridge.

15 We have coordinated quite a bit
16 with through Deborah with the utility
17 companies. We, you know, have let the
18 utility companies know what our design
19 intentions were, what we needed in terms of,
20 you know, clearance.

21 And so, hopefully, when they go and
22 do the utility relocation, they will do what
23 we intended for them to do.

24 You know, however, the contractor,



1 the selected contractor, you know, will need
2 to coordinate very closely with Deborah, with
3 the utility company, you know, to make sure
4 that, um, what they are going to do, you
5 know, what they are doing is not going to
6 cause a problem for you.

7 Because they will be out there
8 doing all the vast utility work, and then you
9 will come back and build the bridge -- or
10 start building the bridge, that is.

11 Delmarva Electric owns those poles,
12 and everybody else is going to be attached to
13 the pole. And I think Delmarva Electric will
14 be at the very top. And then there will be
15 these other utilities on the same pole.
16 Verizon Telephone will be the lowest one.
17 Okay? So there are certain like clearance
18 bubbles that are required.

19 We did, as I mentioned, you know,
20 through Deborah, we coordinated with the
21 utility companies, you know, to let them know
22 what kind of room that we are expecting to
23 have there so you can work.

24 So this slide, the one you see



1 circled in blue, there will be a temporary
2 access that the contractor needs to put in in
3 order to build the pad for the Delmarva pole
4 relocation.

5 So those little dots, let's see,
6 this little dot here, that's the proposed
7 utility pole.

8 And on Sheet CS-03, these notes are
9 laid out, so please go in and look at Plan
10 Sheet CS-03.

11 And also the utility statement lays
12 out in quite a bit of detail, you know, what
13 gets relocated where, when. So go and read
14 the utility statement. It is quite
15 extensive.

16 The gas line relocation: So there
17 will be two phases of this gas line
18 relocation.

19 The gas line currently runs under
20 the Christina River on the eastern side of
21 the existing bridge.

22 But, because it will be in the way
23 when, you know, we go to construct a new
24 bridge, it has to be relocated ahead of time.



1 But it's a temporary relocation. It will go
2 on the eastern sidewalk of the existing
3 bridge. It will just lay there, and I think
4 the gas company may just put some sand bags
5 on top to protect it.

6 And so this is going to be done,
7 you know, with all of the advanced utility
8 relocation work. And that is during the time
9 suspension charges.

10 And then, when the new super
11 structure is in place or the new beams for
12 the bridge is in place, that's when the
13 utility support for the permanent relocation
14 also gets installed.

15 And so during this time, also the
16 permanent gas line relocation, you know, gets
17 installed. And at this time there will be no
18 suspension of time charges.

19 So Plan Sheet CS-03, UD-01, UD-02,
20 as well as the utility statement has that
21 information. So go in there, and please read
22 the utility statement and look at the notes
23 on the sheets, the plan sheets, and
24 understand what's required.



1 All right. We come to this very
2 important 72-inch New Castle County Sanitary
3 Sewer Force Main, otherwise known as the
4 Christina River Force Main. So that's the
5 CRFM that you were referring to.

6 In the bid proposal, it's referred
7 to as the CRFM. But you will see in a lot of
8 the plan sheets, you know, we use 72-inch
9 Sanitary Sewer Force Main. Sometimes we just
10 call it SS, 72-inch SS.

11 But it's the same thing.

12 This is an existing force main.
13 New Castle County said it's not in good
14 condition. So we have to be very careful
15 when we are working around or near the force
16 main.

17 The new construction: So pier one,
18 the abutment, Abutment A, all of that work is
19 in the vicinity of the 72-inch force main.

20 So it was constructed in 1974.
21 It's a 72-inch pre-stressed concrete cylinder
22 pipe. The pre-stressing wires, I think some
23 of them are broken.

24 There is little to no system



1 redundancy for what the pipe is carrying.

2 There have been no structural
3 inspections to date. Okay? So we really
4 don't know the condition of this 72-inch
5 force main.

6 So there are a lot of precautions
7 that you need to know about. On the Plan
8 Sheet CS-01 and Special Provision 763620
9 entitled "Protection of Existing Utilities by
10 Contractor," there are several pages of
11 specification requirements. Please read them
12 and understand them, you know, what needs to
13 be done. There is a lot that needs to be
14 done for monitoring of the -- I will call it
15 the CRFM.

16 So there are some threshold
17 settlement and movement that cannot be
18 exceeded. If it is exceeded, all work stops.

19 So vibrations, if it exceeds
20 .2-inch per second, all work stops.

21 If the horizontal vertical movement
22 exceeds one thirty seconds of an inch, all
23 work stops.

24 Now, when I say all work stops, you



1 have to go in and read the spec, the 763620.
2 You know, it's laid out in there, you know,
3 if the vibration or the settlement is
4 exceeded one time only, you know, New Castle
5 County may not say all work stops.

6 I think they are looking at a
7 trend, or I know they are looking at a trend.
8 You know, is it one time, two times, three
9 times, or is it just a one and it never
10 happens again?

11 But it's all laid out in that
12 Special Provision.

13 The monitoring and monitoring plan
14 is the responsibility of the contractor. The
15 contractor needs to hire a geotechnical
16 instrumentation engineer. And that's in that
17 Special Provision.

18 So this is a, you know, qualified
19 entity person, personnel, who will be doing
20 the monitoring, installing the equipment,
21 testing the equipment, you know, making sure
22 the equipment is always in working order.
23 And that's the responsibility of the GIE.
24 But he or she works for the contractor.



1 Okay?

2 So the construction monitoring, so
3 installing the instrument and then getting
4 the baseline readings before you even go out
5 and start any utility relocation. And, you
6 know, reading, getting the readings of the
7 instrument.

8 You know, that all is taking place
9 from say day one, you know, all the way to
10 the project completion. Okay?

11 And, again, you know, this is all
12 laid out in the Special Provision.

13 And if you go to Plan Sheet CS-01
14 and read some of those notes, you know, and
15 it will say that the contractor needs to
16 locate accurately the 72-inch force main.

17 There are some test holes that were
18 done, or there were some test holes that were
19 done. Some of it was done by DelDOT or
20 personnel hired by DelDOT. Some was done by
21 personnel hired by New Castle County.

22 That information is on the plans,
23 the bid plans. But it's difficult, I think,
24 to know exactly, from those test holes,



1 exactly, you know, where the pipe is, because
2 the water gets muddy, and you can't really
3 see.

4 But we are requiring the contractor
5 to actually go out there and physically
6 locate the pipe.

7 And then I will just go to the next
8 slide.

9 So those things that look like
10 traffic lights there, you know, the blue with
11 the different colored dots, those are
12 actually the -- where we think the instrument
13 locations need to be. Okay?

14 And those have to be located
15 relative to the edge of the pipe. So that's
16 why you need to be able to locate the pipe
17 accurately, because, you know, this plan,
18 conceptual plan or schematic or supplemental
19 sketch is the suggested plan for the CRFM
20 monitoring, and that's actually also provided
21 on the DelDOT bid website.

22 And it is a suggested plan. So we
23 are really looking for the contractor's GIE
24 to, you know, recommend where the locations



1 of the instruments are and install the
2 instruments, because, you know, the readings
3 of these instruments is what determines, you
4 know, whether you stop work, continue work,
5 you know, so those readings, we are bound by
6 those readings.

7 So take a good look at the plan.
8 It's there, you know, to help you for your
9 GIE to help you establish the locations of
10 the instrumentation.

11 There is a contact person assigned
12 from New Castle County, Anthony Schiavi. His
13 information is there, contact information
14 there.

15 And I believe when we go and have
16 the preconstruction meeting, there will
17 actually be a list with all the contact names
18 information, so it's all in one place, you
19 know, and it's easier reference.

20 On Plan Sheet CS-01, there are
21 notes that talk about the 72-inch sanitary
22 sewer protection zone.

23 And I mentioned about accurately
24 determining the location of the sewer. So



1 this note through here talks about, you know,
2 locating it and then this construction
3 fencing that needs to go in the area of the
4 pipe, and that is a zone that you need to
5 stay out of.

6 So there will be no construction
7 there. You know, it will just be the fence
8 up, and no one can get in there.

9 So some details of the protective
10 fence and the area that it needs to be in, so
11 it's -- I have my glasses, but I have a
12 little trouble with it -- a 16-foot minimum
13 from the center line of the pipe.

14 So there was, going back a little
15 bit, if you remember, there was that
16 relocated Delmarva utility pole. You have
17 to, you know, build that access so that
18 Delmarva can relocate that pole.

19 That pole is actually, where it's
20 located, um, the fence sort of jogs around
21 it.

22 So after the pole gets put in, New
23 Castle County would like that fence to
24 actually go around the pole as much as you



1 can.

2 And that's what this note two is
3 referring to. After the utility pole is
4 installed and/or the temporary access is
5 removed, extend the construction safety fence
6 enclosure behind the utility pole as far as
7 possible without interfering with subsequent
8 construction activities.

9 Some emergency procedures is listed
10 on Plan Sheet PN-02.

11 So, you know, hopefully, there is
12 no failure out there. We are keeping our
13 fingers crossed. But if, you know, something
14 happens, there is a set of directions that
15 the contractor needs to follow.

16 New Castle County is preparing and
17 will have their emergency action plan by the
18 time, you know, we go out to construction.

19 There are quite a few activities
20 that require New Castle County's input. And
21 it's listed on Plan Sheet PN-02. So you need
22 to give New Castle County two weeks' advance
23 notice so they can attend meetings for, you
24 know, and even some of these construction



1 items that will be happening in the field.

2 So New Castle County and/or their
3 representative wants to be out there when you
4 are doing certain things. But they do need
5 48 -- did I say two weeks? I think I meant
6 48 hours. Forty-eight hours, not two weeks.
7 Sorry.

8 The two weeks is for the shop
9 drawing review.

10 So there will be shop drawings that
11 you will submit that New Castle County also
12 needs to review, and they need two weeks to
13 review those submissions.

14 Okay. Lightweight aggregate fill.
15 So for construction of Abutment A, again
16 because it's so close to that 72-inch force
17 main, we cannot exert any additional weight
18 on the pipe.

19 So there will be lightweight
20 aggregate fill required behind those
21 abutments, or not "those" abutments, "that"
22 abutment, abutment A.

23 There are certain precautions
24 regarding construction of pier one and



1 Abutment A. And, again, because it's so
2 close to the 72-inch force main. So this is
3 that sewer pipe here, and pier one and
4 Abutment A.

5 So on Plan Sheet CS-03, there are,
6 you know, certain restrictions and
7 requirements that relate to the construction
8 of pier one and Abutment A.

9 There are certain requirements
10 regarding installation of the coffer dam.
11 Our design was predicated on using a press-in
12 sheet pile, because that has no vibration
13 impact to the sanitary sewer.

14 And as far as constructing the
15 drill shaft, we are looking for the contract
16 to oscillate the shell in up to a certain
17 depth, beyond which you can vibrate the rest
18 of it in.

19 However, you will still need to
20 keep in mind the vibration threshold numbers
21 that we talked about, the .2 feet per second.
22 Was it feet or inch?

23 MR. HASTINGS: Inch.

24 MS. CHIA-CALABRIA: Inch. Sorry.



1 So the notes on Plan Sheet CS-03 talks about
2 these construction procedures.

3 The picture on the bottom there,
4 that is a concept of the press-in sheet pile,
5 the lower left.

6 And Sheet DS-01 talks about the
7 drill shaft construction at pier one and
8 Abutment A.

9 And then, again, we are referring
10 to Plan Sheet CS-03, because that's where a
11 lot of those notes are, you know, that talks
12 about the precautions that need to be taken
13 for constructing pier one and Abutment A.

14 Here are some notes that you can
15 find on Plan Sheet DS-01. And there are also
16 Special Provision for the drill shafts that
17 talked about, you know, more regarding the
18 drill shaft installation.

19 There will be one technique shaft
20 required. So before we do the actual
21 production drill shaft, we do a test drill
22 shaft, and that's what we call the technique
23 shaft. And that is also covered in the
24 Special Provision for drill shafts.



1 Plan Sheet PR-04, that's where this
2 detail is taken from. It shows the location
3 of the technique shaft in relation to a pier.

4 So the technique shaft will be
5 closer to pier four. So we don't want the
6 technique shaft to be at pier one, because
7 the 72-inch sanitary sewer is very close to
8 this.

9 Existing bridge demolition: Plan
10 Sheet CS-05, Plan Sheet SR-01, and Special
11 Provision covers, you know, some things that
12 you need to know about the existing bridge
13 demolition.

14 There is a potential for hazardous
15 waste on the existing bridge, lead paint,
16 maybe asbestos, creosoted timber. So you
17 have to be aware of that and take the
18 necessary precautions.

19 Also, no blasting is allowed for
20 bridge demolition or anything else, because
21 of the, you know, just the vibration
22 threshold that we are concerned about.

23 There will be brick form liner
24 required for the parapets, and the surface of



1 it will be painted, so the concrete surface
2 where the brick form liner goes.

3 So after the form liner comes off,
4 you know, you will need to paint that. And
5 the color that we are looking for is that
6 Krebs building red brick color. That
7 building is right there at the intersection
8 of Main Street and Water Street.

9 So if you go to Plan Sheet DK-05,
10 Plan Sheet AS-03, and the Special Provision
11 602549, form liners, it gives you information
12 about the architectural treatment.

13 So the bridge parapets and most of
14 the parapets on the approach slab will get
15 the form liner treatment.

16 Did you talk about -- I think you
17 talked about this. Right?

18 So Note 15 in the Prospective
19 Bidders Notes, it's a lengthy note, and there
20 is a lot of information in there about
21 insurance requirement.

22 There is a \$5 million contractor's
23 pollution liability insurance requirement.
24 So please read Note 15. On this slide, you



1 know, just some things are noted here. But
2 it is a long note, so please go and read
3 through that note.

4 So we are not just only concerned
5 about the 72-inch CRFM; we are also concerned
6 about that liner on the superfund site.

7 I believe that's the end, so.

8 MR. HASTINGS: So, actually, our
9 goal isn't to scare the bejesus out of you.
10 This is an important project, but it has a
11 lot of challenges.

12 And so, you know, the point of the
13 pre-bid meeting is to, you know, bring those
14 challenges to light so you are aware of them
15 as you look through the contract documents.

16 And so, you know, the sewer force
17 main, obviously, it's a big deal to the
18 County; it's a big deal to us.

19 We have constructed a project
20 recently near it, and it went well.

21 So, you know, we don't anticipate
22 any issues here. But, obviously, it's a big
23 deal, and so we wanted to bring it to light.
24 And that's why we are here.



1 So thank you, Catherine, for the
2 presentation.

3 Do you have any questions?

4 MR. MORLEE: I hate to kind of jump
5 in when something so technical is going on.

6 MR. HASTINGS: Can you say your
7 name and your company, please?

8 MR. MORLEE: Yes. My name is Lueve
9 with TransGen Energy. We are a DBE supplier.
10 So I just wanted to make sure I could come
11 out.

12 And is the compliance officer here
13 today, or no?

14 MR. HASTINGS: For DBE?

15 MR. MORLEE: Yes.

16 MR. HASTINGS: She is in the
17 building. She works in the building, but I
18 don't know if she is here. She is not in
19 this room right now.

20 MR. MORLEE: So I took over the
21 company in January, and I'm just making sure
22 people know we are around, and we can help
23 meet the goals by providing fuel, because
24 there will be a lot of site work and things



1 going on.

2 So I just want to make sure I come
3 in, so, you know, giving a good-faith effort
4 down here trying to get some work.

5 So I hope to meet everyone before
6 you guys leave. Sorry.

7 MR. HASTINGS: That's all right.

8 MS. IVINS: Does anybody else have
9 any questions? Okay.

10 Make sure, if you haven't signed
11 in, that you see me before you leave, because
12 you have to be signed in in order to submit a
13 bid. Okay?

14 So if no one has any other
15 questions, we will adjourn the meeting.
16 Thank you all for coming.

17 (Concluded at 2:54 p.m.)

18
19
20
21
22
23
24

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
CERTIFICATE

I, Lorena J. Hartnett, a Notary Public and Registered Professional Reporter, do hereby certify that the foregoing is an accurate and complete transcription of the proceeding held at the time and place stated herein, and that the said proceeding was recorded by me and then reduced to typewriting under my direction, and constitutes a true record of the testimony given by said witnesses.

I further certify that I am not a relative, employee, or attorney of any of the parties or a relative or employee of either counsel, and that I am in no way interested directly or indirectly in this action.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of office on this 28th day of July 2019.



Lorena J. Hartnett
Registered Professional Reporter



| | | | |
|--|---|---|--|
| \$ | addendum (2) 8:5,6 | also (16) 3:21 4:3 8:7 9:20 | 6:4 |
| \$5 (1) 32:22 | addendums (1) 8:4 | 13:21,23 15:12 18:11 19:14,15 24:20 28:11 30:15,23 31:19 33:5 | April (3) 13:7,8,13 |
| A | additional (2) 6:13 28:17 | always (2) 14:4 22:22 | architectural (1) 32:12 |
| able (3) 13:9,10 24:16 | address (1) 7:23 | amount (1) 6:24 | area (4) 10:8,24 26:3,10 |
| Abutment (10) 20:18,18 28:15,22, 22 29:1,4,8 30:8,13 | addressed (1) 15:17 | amounts (1) 7:7 | around (6) 3:13 12:8 20:15 26:20,24 34:22 |
| abutments (2) 28:21,21 | addresses (5) 6:6,9,11,15,20 | Amtrak (1) 10:12 | AS-03 (1) 32:10 |
| acceptance (1) 6:3 | adjourn (1) 35:15 | and/or (2) 27:4 28:2 | asbestos (1) 31:16 |
| access (5) 10:7 11:2 18:2 26:17 27:4 | adjourns (1) 4:10 | Ann (1) 15:10 | as-builts (1) 10:5 |
| accident (1) 9:1 | advance (1) 27:22 | answer (1) 4:17 | asks (1) 7:22 |
| accompanied (2) 8:13,15 | advanced (1) 19:7 | answers (1) 8:8 | assigned (1) 25:11 |
| accurately (3) 23:16 24:17 25:23 | aerial (1) 16:11 | Anthony (1) 25:12 | attached (1) 17:12 |
| acknowledge (1) 8:4 | affidavit (1) 7:17 | anticipate (1) 33:21 | attend (1) 27:23 |
| action (1) 27:17 | after (6) 4:9 5:1 7:8 26:22 27:3 32:3 | anybody (1) 35:8 | attendance (1) 3:12 |
| active (2) 10:23 11:2 | afternoon (2) 3:1 8:22 | anyone (1) 8:18 | attending (1) 3:6 |
| activities (2) 27:8,19 | Again (7) 9:15 11:23 22:10 23:11 28:15 29:1 30:9 | anything (2) 10:6 31:20 | August (2) 5:12 13:7 |
| actual (1) 30:20 | agencies (1) 12:12 | apparent (2) 4:23 6:1 | available (5) 9:12,15,20,23 14:15 |
| actually (10) 9:12 15:7,12 24:5, 12,20 25:17 26:19,24 33:8 | aggregate (2) 28:14,20 | apply (1) 5:13 | Award (1) 6:2 |
| | ahead (1) 18:24 | appreciate (1) 3:17 | aware (5) 4:11 5:15 16:11 31:17 33:14 |
| | allowed (1) 31:19 | approach (2) 9:11 32:14 | B |
| | | approved (1) | |

| | | | |
|--|--|--|---|
| back (6) 6:22 7:9 9:4 14:12 17:9 26:14 | bidners' (1) 4:20 | bring (2) 33:13,23 | 7:6,9 |
| bags (1) 19:4 | big (3) 33:17,18,22 | broken (1) 20:23 | center (1) 26:13 |
| bascule (1) 9:11 | Bill (1) 11:15 | bubbles (1) 17:18 | certain (7) 11:11 17:17 28:4, 23 29:6,9,16 |
| baseline (1) 23:4 | bird (2) 12:20,21 | build (4) 16:14 17:9 18:3 26:17 | certification (1) 7:21 |
| BASF (2) 10:24 11:16 | birds (4) 13:3,6,8,17 | building (7) 11:19,20 17:10 32:6,7 34:17,17 | challenges (2) 33:11,14 |
| beams (2) 16:9 19:11 | bit (5) 9:1 12:9 16:15 18:12 26:15 | businesses (2) 10:24 11:3 | changes (2) 9:6,9 |
| before (9) 4:2,18 9:3 12:4 13:8 23:4 30:20 35:5, 11 | blank (1) 6:24 | | charges (4) 15:15,19 19:9,18 |
| behind (2) 27:6 28:20 | blasting (1) 31:19 | C | Chemours (1) 15:9 |
| bejesus (1) 33:9 | blue (2) 18:1 24:10 | calendar (1) 4:24 | CHIA-CALABRIA (5) 8:21,23 10:2,7 29:24 |
| believe (3) 9:19 25:15 33:7 | boating (1) 14:10 | call (4) 10:8 20:10 21:14 30:22 | Christina (5) 3:9 14:9 16:6 18:20 20:4 |
| between (1) 16:5 | boats (1) 14:12 | cannot (3) 5:4 21:17 28:17 | circled (1) 18:1 |
| beyond (1) 29:17 | bond (3) 8:13,13,16 | cap (1) 14:20 | Civil (1) 6:5 |
| bid (35) 3:20 4:13 5:1,6,8 6:17,22,23,24 7:4,7, 10,19 8:11,12,13,14, 17 9:4,7,13,16,20,23 10:20,21 11:8,23 12:22 13:22 15:15 20:6 23:23 24:21 35:13 | both (1) 7:11 | careful (1) 20:14 | Clearance (3) 10:12 16:20 17:17 |
| bidder (4) 4:24 6:1 7:2,22 | bottom (2) 7:24 30:3 | carrying (1) 21:1 | close (4) 11:11 28:16 29:2 31:7 |
| bidners (3) 11:6 15:17 32:19 | bound (1) 25:5 | Castle (13) 3:9 12:5 20:2,13 22:4 23:21 25:12 26:23 27:16,20,22 28:2,11 | closely (1) 17:2 |
| | brick (3) 31:23 32:2,6 | Catherine (2) 8:22 34:1 | closer (1) 31:5 |
| | Bridge (25) 3:8 9:14 10:12,16, 17 13:10,16 14:10,13, 19 15:23 16:5,6,14 17:9,10 18:21,24 19:3, 12 31:9,12,15,20 32:13 | cause (1) 17:6 | Coast (2) 14:8,16 |
| | | CD (2) | coffer (1) 29:10 |
| | | | color (2) |

| | | | |
|---|--|---|---|
| 32:5,6 colored (1) 24:11 come (4) 17:9 20:1 34:10 35:2 comes (1) 32:3 coming (2) 10:14 35:16 commotion (1) 13:19 companies (3) 16:17,18 17:21 company (7) 3:19 4:1 7:23 17:3 19:4 34:7,21 completed (2) 7:12 12:5 completion (1) 23:10 compliance (1) 34:12 composite (1) 14:1 concept (1) 30:4 conceptual (1) 24:18 concern (1) 16:8 concerned (4) 13:6 31:22 33:4,5 Concluded (1) 35:17 concrete (2) 20:21 32:1 condition (2) 20:14 21:4 Connie (1) | 3:4 construct (1) 18:23 constructed (2) 20:20 33:19 constructing (3) 13:17 29:14 30:13 construction (15) 9:10 15:6 20:17 23:2 26:2,6 27:5,8,18, 24 28:15,24 29:7 30:2, 7 contact (5) 11:13,17 25:11,13, 17 continue (1) 25:4 continuously (1) 12:11 Contract (7) 3:7 5:14,21 6:2,6 29:15 33:15 contractor (10) 16:24 17:1 18:2 21:10 22:14,15,24 23:15 24:4 27:15 contractors' (1) 6:12 contractor's (2) 24:23 32:22 Contracts (1) 3:5 conversation (1) 12:11 coordinate (1) 17:2 coordinated (2) 16:15 17:20 coordination (3) 14:8,17 15:2 | Coordinator (1) 3:5 correct (1) 15:12 corrections (1) 5:16 costs (2) 6:21 11:9 could (1) 34:10 County (13) 3:10 12:5 20:2,13 22:5 23:21 25:12 26:23 27:16,22 28:2, 11 33:18 County's (1) 27:20 court (1) 3:21 covered (1) 30:23 covers (1) 31:11 crane (1) 16:8 create (1) 3:22 creating (1) 13:19 creosoted (1) 31:16 CRFM (6) 6:10 20:5,7 21:15 24:19 33:5 critical (1) 5:9 crossed (1) 27:13 crosses (1) 14:9 | crossing (1) 14:3 CS-01 (7) 10:21 14:20 15:6, 13 21:8 23:13 25:20 CS-03 (6) 18:8,10 19:19 29:5 30:1,10 CS-05 (1) 31:10 currently (2) 16:2 18:19 cylinder (1) 20:21 |
| D | | | |
| | | | dam (1) 29:10 damages (2) 6:21 11:10 date (4) 4:13 8:5,7 21:3 dates (1) 12:13 day (1) 23:9 days (2) 4:13,24 DBE (8) 4:21,22 5:2,9,11 8:1 34:9,14 deal (3) 33:17,18,23 Deborah (3) 16:16 17:2,20 deck (1) 9:19 declared (1) 7:5 |

| | | | |
|---|---|--|---|
| DelDOT (9) 3:5 9:13,15,20 12:10 15:2 23:19,20 24:21 | 5:16 33:15 done (8) 10:4 19:6 21:13,14 23:18,19,19,20 | edge (1) 24:15 effort (4) 5:6,8,10 35:3 | equal (1) 8:16 equipment (5) 14:2 16:9 22:20,21, 22 |
| Delmarva (5) 17:11,13 18:3 26:16,18 | dot (1) 18:6 DOT-Ask@statedeus (1) 4:11 | either (1) 8:15 Electric (2) 17:11,13 | establish (1) 25:9 even (2) 23:4 27:24 |
| demolition (3) 31:9,13,20 | dots (2) 18:5 24:11 | electronic (1) 7:12 | every (1) 7:4 |
| Department's (1) 6:5 | down (1) 35:4 | else (3) 17:12 31:20 35:8 | everybody (1) 17:12 |
| deposit (2) 8:14,15 | drawing (1) 28:9 | e-mail (1) 4:10 | everyone (3) 3:2 8:22 35:5 |
| depth (1) 29:17 | drawings (1) 28:10 | emergency (3) 9:17 27:9,17 | exactly (2) 23:24 24:1 |
| design (2) 16:18 29:11 | drill (7) 29:15 30:7,16,18, 21,21,24 | employee (1) 7:17 | examination (1) 6:17 |
| detail (3) 15:18 18:12 31:2 | drug (1) 7:17 | enclosure (1) 27:6 | exceeded (3) 21:18,18 22:4 |
| detailed (1) 14:21 | DS-01 (2) 30:6,15 | end (3) 12:22 14:19 33:7 | exceeds (2) 21:19,22 |
| details (1) 26:9 | during (2) 19:8,15 | Energy (1) 34:9 | exert (1) 28:17 |
| determines (1) 25:3 | | engineer (1) 22:16 | existing (9) 13:9 15:22 18:21 19:2 20:12 21:9 31:9, 12,15 |
| determining (1) 25:24 | E | engineers (1) 3:12 | expecting (1) 17:22 |
| different (1) 24:11 | each (1) 4:2 | enter (5) 6:24 7:6 8:1,4,7 | expiration (1) 12:13 |
| difficult (1) 23:23 | earlier (1) 8:2 | entered (1) 7:8 | expire (1) 12:4 |
| directions (1) 27:14 | easier (1) 25:19 | enters (1) 7:2 | expires (1) 12:14 |
| discussed (1) 8:2 | eastern (3) 15:23 18:20 19:2 | entitled (1) 21:9 | extend (2) 12:7 27:5 |
| DK-05 (1) 32:9 | EBSX (4) 7:7,10,12,13 | entity (1) 22:19 | extensive (1) |
| documentation (1) 5:6 | EC-01 (2) 12:16 13:22 | environmental (2) 12:21 13:23 | |
| documents (2) | | | |

| | | | |
|---|--|---|--|
| 18:15 eye (1) 12:12 | five (1) 4:24 floodplain (1) 12:6 follow (1) 27:15 Force (11) 20:3,4,9,12,15,19 21:5 23:16 28:16 29:2 33:16 form (6) 7:16 31:23 32:2,3, 11,15 forms (2) 6:23 7:10 forth (1) 14:12 Forty-eight (1) 28:6 found (2) 5:17 8:9 four (1) 31:5 free (1) 12:2 fuel (1) 34:23 | 16 24:2 26:22 getting (2) 23:3,6 GIE (3) 22:23 24:23 25:9 give (2) 4:14 27:22 gives (1) 32:11 giving (1) 35:3 glasses (1) 26:11 goal (4) 5:2,5 8:1 33:9 goals (1) 34:23 goes (1) 32:2 going (15) 3:2,13 9:1 10:17 12:1,12 13:16 15:24 17:4,5,12 19:6 26:14 34:5 35:1 Good (4) 3:1 8:21 20:13 25:7 good-faith (4) 5:5,8,10 35:3 great (1) 15:17 grid (1) 9:18 grubbing (1) 13:24 Guard (2) 14:8,16 Guidance (2) 5:7,10 guys (2) 8:23 35:6 | H happening (1) 28:1 happens (2) 22:10 27:14 hard (1) 14:4 Harrison (1) 15:10 HASTINGS (8) 10:1,4 29:23 33:8 34:6,14,16 35:7 hate (1) 34:4 hazardous (1) 31:14 HAZ-MAT (1) 15:3 help (3) 25:8,9 34:22 high (1) 16:6 hire (1) 22:15 hired (2) 23:20,21 historic (1) 11:19 holes (3) 23:17,18,24 hope (1) 35:5 hopefully (2) 16:21 27:11 horizontal (1) 21:21 hours (2) 28:6,6 |
| F | G | | |
| fails (1) 7:3 failure (1) 27:12 far (3) 13:5 27:6 29:14 fast (1) 12:1 feel (1) 12:2 feet (2) 29:21,22 fence (5) 26:7,10,20,23 27:5 fencing (1) 26:3 few (2) 4:20 27:19 field (1) 28:1 figures (1) 7:14 file (3) 7:7,9,12 fill (3) 3:14 28:14,20 filled (2) 7:18 8:9 final (1) 8:8 find (2) 6:23 30:15 fingers (1) 27:13 | gas (5) 18:16,17,19 19:4,16 general (1) 5:21 gentlemen (1) 8:24 geotechnical (1) 22:15 gets (6) 12:5 18:13 19:14, | | |

| | | | |
|---|--|--|--|
| <p>however (2) 16:24 29:19</p> <p>https://deldotojtcom (1) 5:24</p> <p>hunters (1) 14:11</p> | <p>instrument (3) 23:3,7 24:12</p> <p>instrumentation (2) 22:16 25:10</p> <p>instruments (3) 25:1,2,3</p> | <p>26:20</p> <p>jump (1) 34:4</p> <p>June (1) 13:4</p> | <p>31:15</p> <p>leaf (1) 9:11</p> <p>least (2) 4:12 8:16</p> |
| <p style="text-align: center;">I</p> | <p>insurance (3) 6:12 32:21,23</p> | <p style="text-align: center;">K</p> | <p>leave (3) 6:23 35:6,11</p> |
| <p>identified (1) 5:8</p> <p>impact (1) 29:13</p> <p>important (2) 20:2 33:10</p> <p>inch (4) 21:22 29:22,23,24</p> <p>indicated (1) 7:4</p> <p>Industrial (3) 10:15 11:1,15</p> <p>information (14) 3:15 4:23 11:14,17 12:23 15:1,11 19:21 23:22 25:13,13,18 32:11,20</p> <p>input (1) 27:20</p> <p>inspections (1) 21:3</p> <p>install (1) 25:1</p> <p>installation (2) 29:10 30:18</p> <p>installed (3) 19:14,17 27:4</p> <p>installing (2) 22:20 23:3</p> <p>in-stream (3) 12:19 13:2,4</p> | <p>insureds' (1) 6:13</p> <p>intended (1) 16:23</p> <p>intentions (1) 16:19</p> <p>interfering (1) 27:7</p> <p>interim (1) 9:22</p> <p>intersection (2) 11:21 32:7</p> <p>irregular (1) 7:5</p> <p>issues (1) 33:22</p> <p>item (1) 7:4</p> <p>items (1) 28:1</p> <p>IVINS (3) 3:1,4 35:8</p> | | <p>keep (3) 12:12 13:14 29:20</p> <p>keeping (2) 8:23 27:12</p> <p>kind (3) 4:16 17:22 34:4</p> <p>kinds (1) 13:19</p> <p>King (1) 11:16</p> <p>known (1) 20:3</p> <p>Krebs (2) 11:20 32:6</p> |
| <p>input (1) 27:20</p> <p>inspections (1) 21:3</p> <p>install (1) 25:1</p> <p>installation (2) 29:10 30:18</p> <p>installed (3) 19:14,17 27:4</p> <p>installing (2) 22:20 23:3</p> <p>in-stream (3) 12:19 13:2,4</p> | <p style="text-align: center;">J</p> | <p style="text-align: center;">L</p> | <p>liner (7) 14:19,24 31:23 32:2,3,15 33:6</p> <p>liners (1) 32:11</p> <p>liquidated (2) 6:21 11:10</p> <p>list (1) 25:17</p> <p>listed (3) 5:20 27:9,21</p> <p>little (7) 9:1 12:9 18:5,6 20:24 26:12,14</p> <p>locate (3) 23:16 24:6,16</p> |
| <p>James (4) 3:8 10:11,16 11:21</p> <p>January (1) 34:21</p> <p>Jeff (1) 15:3</p> <p>jogs (1)</p> | | | |

| | | | |
|--|---|--|--|
| <p>located (2) 24:14 26:20</p> <p>locating (1) 26:2</p> <p>location (3) 16:13 25:24 31:2</p> <p>locations (3) 24:13,24 25:9</p> <p>Logue (1) 15:11</p> <p>long (1) 33:2</p> <p>longer (1) 12:9</p> <p>look (5) 18:9 19:22 24:9 25:7 33:15</p> <p>looking (5) 22:6,7 24:23 29:15 32:5</p> <p>lot (8) 12:23 20:7 21:6,13 30:11 32:20 33:11 34:24</p> <p>low (3) 4:24 6:1 10:13</p> <p>Lower (2) 11:15 30:5</p> <p>lowest (1) 17:16</p> <p>Lueve (1) 34:8</p> | <p>32:8 33:17</p> <p>maintain (1) 11:2</p> <p>maintenance (1) 10:5</p> <p>make (14) 4:13 7:18 8:9 10:15, 21 11:7,12 12:14,24 14:14 17:3 34:10 35:2, 10</p> <p>making (2) 22:21 34:21</p> <p>Management (1) 11:16</p> <p>manager (2) 4:19 15:4</p> <p>managers (1) 8:20</p> <p>mandatory (2) 3:6,18</p> <p>March (1) 13:3</p> <p>mast (1) 14:1</p> <p>may (2) 19:4 22:5</p> <p>maybe (2) 16:7 31:16</p> <p>meant (1) 28:5</p> <p>meet (3) 5:4 34:23 35:5</p> <p>meeting (12) 3:3,7,11,19,23 4:6, 10,18 11:18 25:16 33:13 35:15</p> <p>meetings (1) 27:23</p> <p>mentioned (4) 11:4 13:2 17:19</p> | <p>25:23</p> <p>might (3) 4:16 12:9 14:11</p> <p>migrating (1) 12:20</p> <p>migratory (1) 13:5</p> <p>million (1) 32:22</p> <p>mind (1) 29:20</p> <p>minimum (1) 26:12</p> <p>monitoring (7) 6:9 21:14 22:13,13, 20 23:2 24:20</p> <p>months (1) 12:8</p> <p>more (1) 30:17</p> <p>MORLEE (4) 34:4,8,15,20</p> <p>most (1) 32:13</p> <p>mouse (1) 10:9</p> <p>movement (2) 21:17,21</p> <p>much (2) 16:1 26:24</p> <p>muddy (1) 24:2</p> <p>must (5) 3:19 5:23 7:14 8:13, 14</p> | <p>34:7,8</p> <p>names (2) 11:17 25:17</p> <p>near (2) 20:15 33:20</p> <p>neat (1) 3:15</p> <p>necessary (1) 31:18</p> <p>need (19) 5:5 7:9,11 8:3,7 14:2,22 17:1 21:7 24:13,16 26:4 27:21 28:4,12 29:19 30:12 31:12 32:4</p> <p>needed (1) 16:19</p> <p>needs (9) 18:2 21:12,13 22:15 23:15 26:3,10 27:15 28:12</p> <p>nest (2) 13:9,20</p> <p>nested (1) 13:18</p> <p>netting (3) 13:8,13,15</p> <p>never (1) 22:9</p> <p>New (20) 3:9 12:5 13:16 16:5, 14 18:23 19:10,11 20:2,13,17 22:4 23:21 25:12 26:22 27:16,20, 22 28:2,11</p> <p>Newport (4) 10:14,24 11:14,15</p> <p>next (3) 7:16,20 24:7</p> <p>noise (1)</p> |
| M | | | |
| <p>made (2) 9:9,20</p> <p>Main (12) 20:3,4,9,12,16,19 21:5 23:16 28:17 29:2</p> | | | |
| | | N | |
| | | <p>name (6) 3:4 4:1 7:23 8:22</p> | |

| | | | |
|------------------------|------------------------|--------------------------|-----------------------|
| 13:19 | 4:3 5:20 10:17 12:4 | owns (1) | 4:3 22:19 25:11 |
| notarized (2) | 16:3 17:16,24 20:17 | 17:11 | personnel (3) |
| 7:19 8:10 | 21:22 22:4,8,9 23:9 | P | 22:19 23:20,21 |
| Note (16) | 25:18 26:8 28:24 29:3, | | phases (1) |
| 4:21 5:12,18 6:6,9, | 8 30:7,13,19 31:6 | pad (1) | 18:17 |
| 11,15,20 15:16 26:1 | 35:14 | 18:3 | phone (4) |
| 27:2 32:18,19,24 33:2, | online (1) | page (5) | 7:23 15:5,7,8 |
| 3 | 5:24 | 7:20,21,24 8:3,12 | physically (1) |
| noted (1) | only (4) | pages (1) | 24:5 |
| 33:1 | 4:3 12:7 22:4 33:4 | 21:10 | pick (1) |
| notes (20) | on-the-job (1) | paint (2) | 16:9 |
| 4:20 10:22 11:5,5,8, | 6:3 | 31:15 32:4 | picture (1) |
| 24 12:17 13:22 14:21 | opening (1) | painted (1) | 30:3 |
| 15:6,17,20 18:8 19:22 | 5:1 | 32:1 | pier (9) |
| 23:14 25:21 30:1,11, | order (4) | parapets (3) | 20:17 28:24 29:3,8 |
| 14 32:19 | 3:20 18:3 22:22 | 31:24 32:13,14 | 30:7,13 31:3,5,6 |
| nothing (1) | 35:12 | Park (3) | pile (2) |
| 12:14 | original (1) | 10:15 11:1,15 | 29:12 30:4 |
| notice (2) | 9:10 | Parsons (1) | pipe (10) |
| 9:8 27:23 | originally (1) | 15:10 | 20:22 21:1 24:1,6, |
| notices (1) | 9:4 | part (1) | 15,16 26:4,13 28:18 |
| 5:22 | oscillate (1) | 11:15 | 29:3 |
| Number (16) | 29:16 | participation (1) | PJ (1) |
| 3:7 4:21 5:12,18,19 | other (2) | 4:23 | 15:10 |
| 6:6,9,11,15,20 7:23 | 17:15 35:14 | past (1) | place (6) |
| 8:5 15:5,7,8,16 | otherwise (1) | 4:15 | 6:3,8 19:11,12 23:8 |
| numbers (1) | 20:3 | pay (1) | 25:18 |
| 29:20 | out (19) | 7:4 | placement (1) |
| O | 4:14 7:18 8:10 | people (1) | 16:8 |
| | 10:14 15:21 17:7 18:9, | 34:22 | plan (32) |
| obtained (1) | 12 22:2,11 23:4,12 | per (2) | 5:11 6:17 12:16 |
| 12:3 | 24:5 26:5 27:12,18 | 21:20 29:21 | 13:22 14:20 15:6,12 |
| obviously (3) | 28:3 33:9 34:11 | percent (2) | 18:9 19:19,23 20:8 |
| 13:17 33:17,22 | out-of-date (1) | 5:2 8:17 | 21:7 22:13 23:13 |
| off (1) | 15:7 | permanent (3) | 24:17,18,19,22 25:7, |
| 32:3 | over (6) | 16:12 19:13,16 | 20 27:10,17,21 29:5 |
| officer (1) | 3:9 4:18,19 8:19 | Permits (2) | 30:1,10,15 31:1,9,10 |
| 34:12 | 16:6 34:20 | 12:3,17 | 32:9,10 |
| one (23) | overhead (1) | person (3) | Plans (10) |
| | 15:22 | | 5:19 6:4 9:12,13,15, |

| | | | |
|---|---|--|--|
| 19 10:21 11:23 23:22, 23 please (13) 3:14,15 4:1,10 5:15 7:6 15:19 18:9 19:21 21:11 32:24 33:2 34:7 pm (1) 35:17 PN-01 (1) 11:24 PN-02 (2) 27:10,21 point (2) 15:21 33:12 pole (11) 17:13,15 18:3,7 26:16,18,19,22,24 27:3,6 poles (1) 17:11 pollution (2) 6:12 32:23 possible (2) 6:1 27:7 posted (2) 3:16 4:7 potential (1) 31:14 PR-04 (1) 31:1 pre-bid (4) 3:3,7,19 33:13 precautions (5) 14:22 21:6 28:23 30:12 31:18 preconstruction (2) 11:18 25:16 predicated (1) 29:11 preparing (1) | 27:16 presentation (1) 34:2 press-in (2) 29:11 30:4 pre-stressed (1) 20:21 pre-stressing (1) 20:22 pretty (2) 10:12 16:1 previous (1) 9:7 price (4) 6:24 7:2,3 8:17 prices (1) 7:8 print (1) 7:10 printout (1) 7:13 prior (1) 4:13 Probably (2) 10:1 13:14 problem (2) 10:8 17:6 procedures (2) 27:9 30:2 production (1) 30:21 Program (6) 4:21 5:11,23 6:4 7:17 15:3 project (9) 3:12 4:19 5:3 8:19 9:4 12:4 23:10 33:10, 19 properly (3) 4:5 7:18 8:10 | proposal (8) 5:9 6:18,22 9:8 11:8 12:23 15:16 20:6 Proposed (3) 5:18 16:4 18:6 prospective (4) 4:20 11:5 15:16 32:18 protect (1) 19:5 Protection (2) 21:9 25:22 protective (1) 26:9 provide (1) 7:3 provided (4) 5:19 7:6 11:18 24:20 providing (1) 34:23 Provision (8) 21:8 22:12,17 23:12 30:16,24 31:11 32:10 Provisions (1) 5:21 puncture (1) 14:23 pushing (1) 4:16 put (3) 18:2 19:4 26:22 | questions (8) 4:9,12 8:8,18 12:1 34:3 35:9,15 quite (4) 16:15 18:12,14 27:19 <hr/> R <hr/> reaching (1) 16:9 read (14) 10:22 11:8,12,24 12:24 14:21 15:19 18:13 19:21 21:11 22:1 23:14 32:24 33:2 reading (1) 23:6 readings (5) 23:4,6 25:2,5,6 really (3) 21:3 24:2,23 received (1) 6:4 recently (1) 33:20 recommend (1) 24:24 red (3) 16:3,13 32:6 redundancy (1) 21:1 reference (1) 25:19 referred (1) 20:6 referring (3) 20:5 27:3 30:9 regarding (3) 28:24 29:10 30:17 |
| | | qualified (1) 22:18 question (2) 3:24 4:2 | |

| | | | |
|---|---|---|--|
| rehabbed (1) 9:14 | 3:11 | 3:14 17:22 34:19 | 8:16 |
| rejected (1) 7:5 | Require (2) 4:22 27:20 | run (1) 9:3 | selected (1) 17:1 |
| relate (1) 29:7 | required (6) 13:1 17:18 19:24 28:20 30:20 31:24 | runs (1) 18:19 | set (2) 10:20 27:14 |
| relation (1) 31:3 | requirement (3) 13:15 32:21,23 | S | settlement (2) 21:17 22:3 |
| relative (1) 24:15 | Requirements (8) 4:22 5:9 6:13,14 13:21 21:11 29:7,9 | safety (1) 27:5 | seven (1) 4:21 |
| relocate (1) 26:18 | requiring (1) 24:4 | said (1) 20:13 | several (1) 21:10 |
| relocated (6) 15:24 16:4,11 18:13,24 26:16 | response (1) 4:14 | same (2) 17:15 20:11 | Sewer (8) 20:3,9 25:22,24 29:3,13 31:7 33:16 |
| relocation (10) 15:14 16:22 18:4, 16,18 19:1,8,13,16 23:5 | responsibility (2) 22:14,23 | sand (1) 19:4 | shaft (10) 29:15 30:7,18,19, 21,22,23 31:3,4,6 |
| relocations (1) 6:7 | rest (1) 29:17 | Sanitary (5) 20:2,9 25:21 29:13 31:7 | shafts (2) 30:16,24 |
| Remember (2) 7:14 26:15 | restriction (2) 12:21 13:6 | save (1) 7:9 | sheet (29) 3:13 4:7 10:21 11:23 12:16 13:22 14:20 15:6,12 18:8,10 19:19 21:8 23:13 25:20 27:10,21 29:5, 12 30:1,4,6,10,15 31:1,10,10 32:9,10 |
| reminder (1) 5:4 | restrictions (6) 10:20 12:18,20 13:3,12 29:6 | saying (1) 14:5 | sheets (3) 19:23,23 20:8 |
| removed (1) 27:5 | review (3) 28:9,12,13 | scare (1) 33:9 | shell (1) 29:16 |
| repairs (2) 9:17,22 | revisions (1) 5:15 | schematic (1) 24:18 | shop (2) 28:8,10 |
| repeated (1) 11:7 | right (9) 10:10,11 11:20 15:8 20:1 32:7,17 34:19 35:7 | Schiavi (1) 25:12 | shortly (1) 10:18 |
| replaced (2) 9:18,19 | Rights (1) 6:5 | sealed (1) 8:10 | show (1) 16:1 |
| replacing (1) 10:18 | River (5) 3:9 14:9 16:6 18:20 20:4 | Sebastian (1) 15:9 | shown (3) 11:14 15:5 16:3 |
| represent (1) 4:2 | road (3) 6:20 11:9,11 | second (3) 8:3 21:20 29:21 | shows (1) |
| representative (1) 28:3 | room (3) | seconds (1) 21:22 | |
| requested (1) | | Section (2) 6:5,16 | |
| | | security (1) | |

| | | | |
|----------------------|---------------------------|-------------------------|--------------------------|
| 31:2 | south (1) | 26:5 | 14:18 15:2 33:6 |
| side (3) | 14:19 | stenographer (1) | supplemental (3) |
| 15:3,23 18:20 | span (1) | 3:21 | 6:16 9:13 24:18 |
| sidewalk (1) | 9:11 | still (2) | supplier (1) |
| 19:2 | spans (1) | 14:15 29:19 | 34:9 |
| signed (5) | 9:12 | stop (2) | support (2) |
| 3:20 7:18 8:10 | speak (2) | 12:14 25:4 | 14:2 19:13 |
| 35:10,12 | 4:4 12:2 | stops (5) | sure (16) |
| sign-in (2) | spec (1) | 21:18,20,23,24 22:5 | 4:13 7:18 8:9 10:2, |
| 3:13 4:7 | 22:1 | Street (7) | 21 11:7,12 12:14,24 |
| single (1) | Special (9) | 3:9 10:11,17 11:21, | 14:6 17:3 22:21 34:10, |
| 9:11 | 5:21 21:8 22:12,17 | 22 32:8,8 | 21 35:2,10 |
| site (5) | 23:12 30:16,24 31:10 | Stringers (1) | surety (1) |
| 6:18 14:18 15:2 | 32:10 | 9:18 | 8:15 |
| 33:6 34:24 | specification (1) | structural (1) | surface (2) |
| six (2) | 21:11 | 21:2 | 31:24 32:1 |
| 4:12 12:8 | Specifications (3) | structure (1) | suspension (5) |
| sketch (1) | 5:13 6:17,19 | 19:11 | 6:7 15:15,18 19:9, |
| 24:19 | SR-01 (1) | subaqueous (1) | 18 |
| slab (1) | 31:10 | 14:5 | system (1) |
| 32:14 | SR-1 (1) | submission (1) | 20:24 |
| slide (3) | 9:1 | 4:22 | |
| 17:24 24:8 32:24 | SR-141 (1) | submissions (1) | T |
| slides (2) | 16:5 | 28:13 | |
| 9:3 15:24 | SS (2) | submit (5) | T201207101.02 (1) |
| slight (1) | 20:10,10 | 3:20 5:5 7:11 28:11 | 3:8 |
| 9:6 | Standard (2) | 35:12 | taking (1) |
| Somehow (1) | 5:13 6:18 | submitted (3) | 23:8 |
| 14:5 | start (3) | 5:23 7:19 8:11 | talk (2) |
| something (2) | 15:19 17:10 23:5 | submitting (1) | 25:21 32:16 |
| 27:13 34:5 | started (2) | 5:7 | talked (3) |
| Sometimes (2) | 3:2 9:2 | subsequent (1) | 29:21 30:17 32:17 |
| 12:8 20:9 | state (1) | 27:7 | talks (5) |
| soon (1) | 4:1 | suggested (2) | 13:24 26:1 30:1,6, |
| 5:24 | stated (1) | 24:19,22 | 11 |
| sorry (5) | 3:18 | sum (1) | technical (1) |
| 8:14,23 28:7 29:24 | statement (7) | 8:16 | 34:5 |
| 35:6 | 4:2 12:22 13:23 | super (1) | technique (5) |
| sort (1) | 18:11,14 19:20,22 | 19:10 | 30:19,22 31:3,4,6 |
| 26:20 | stay (1) | superfund (3) | Telephone (1) |

| | | | |
|---|--|---|--|
| 17:16 tells (1) 11:10 temporary (4) 14:1 18:1 19:1 27:4 terms (1) 16:19 test (4) 23:17,18,24 30:21 testing (2) 7:17 22:21 their (3) 14:12 27:17 28:2 There (86) 5:2 9:6,8 10:8,13, 19,22,23 11:9,13,19 12:3,16,17,19,20,23 13:13,14,15,18,20,21 14:1,10,11,16,18,19, 20,21 15:14,21 16:7, 13 17:7,14,17,23 18:1, 16 19:3,17,21 20:24 21:2,6,10,13,16 22:2 23:17,18 24:5,10 25:8, 11,13,14,16,20 26:6,7, 8,14,15 27:11,12,14, 19 28:3,10,19,23 29:5, 9 30:3,15,19 31:14,23 32:7,19,20,22 34:24 they (20) 10:3,4,14,15,16 12:7,9 13:20 16:1,4, 21,22 17:4,5,7 22:6,7 27:23 28:4,12 thing (1) 20:11 things (6) 11:12 24:9 28:4 31:11 33:1 34:24 think (10) | 11:4 14:11 17:13 19:3 20:22 22:6 23:23 24:12 28:5 32:16 thirty (1) 21:22 three (1) 22:8 threshold (3) 21:16 29:20 31:22 timber (1) 31:16 times (2) 22:8,9 Today (4) 3:6,22 10:13 34:13 together (1) 14:7 took (1) 34:20 top (3) 7:21 17:14 19:5 total (1) 8:17 towards (1) 12:22 traffic (4) 9:1 10:20 14:10 24:10 Trainee (1) 5:18 trainees (1) 5:19 training (2) 5:20 6:3 transcribed (1) 4:5 transcript (2) 3:22 4:6 TransGen (1) 34:9 | treatment (2) 32:12,15 trend (2) 22:7,7 trouble (1) 26:12 trucks (1) 10:13 trying (1) 35:4 turn (2) 4:18 8:19 two (9) 9:11 18:17 22:8 27:2,22 28:5,6,8,12 typewritten (1) 7:15 typically (1) 10:13 U UD-01 (1) 19:19 UD-02 (1) 19:19 um (2) 17:4 26:20 under (5) 5:9 10:12,15 14:9 18:19 underneath (2) 13:9 14:13 undersigned (1) 7:22 understand (3) 13:1 19:24 21:12 Unfortunately (1) 12:7 unit (3) | 6:24 7:2,3 until (1) 6:3 up (8) 11:24 12:2 13:1 14:21 15:1 16:9 26:8 29:16 use (5) 7:6 10:16 14:2,15 20:8 user (2) 6:20 11:9 using (1) 29:11 utilities (4) 15:22 16:12 17:15 21:9 utility (19) 6:7 15:14 16:16,18, 22 17:3,8,21 18:7,11, 14 19:7,13,20,22 23:5 26:16 27:3,6 V vast (1) 17:8 vehicular (1) 11:2 Verizon (1) 17:16 vertical (1) 21:21 vibrate (1) 29:17 vibration (4) 22:3 29:12,20 31:21 vibrations (1) 21:19 vicinity (1) |
|---|--|---|--|

| | | | |
|---------------------|----------------------|-------------------------|----------------------|
| 20:19 | 5:21 | 16 (1) | |
| W | without (2) | 6:15 | 4 |
| | 13:11 27:7 | 16-feet (1) | |
| wait (1) | work (20) | 26:12 | 48 (2) |
| 4:15 | 6:18 12:15 13:4,10, | 17 (1) | 28:5,6 |
| waiting (1) | 11,11 14:7 17:8,23 | 6:20 | 6 |
| 8:24 | 19:8 20:18 21:18,20, | 1929 (1) | |
| wanted (3) | 23,24 22:5 25:4,4 | 9:10 | 602549 (1) |
| 15:21 33:23 34:10 | 34:24 35:4 | 1974 (1) | 32:11 |
| wants (1) | working (2) | 20:20 | 7 |
| 28:3 | 20:15 22:22 | 1986 (1) | |
| Waste (2) | works (3) | 9:14 | 72-inch (13) |
| 11:16 31:15 | 10:9 22:24 34:17 | 1st (2) | 6:10 20:2,8,10,19, |
| Water (3) | write (1) | 13:3,7 | 21 21:4 23:16 25:21 |
| 11:21 24:2 32:8 | 3:15 | | 28:16 29:2 31:7 33:5 |
| waterway (1) | Z | 2 | 763620 (2) |
| 14:16 | | 2 (1) | 21:8 22:1 |
| way (2) | zero (2) | 29:21 | 8 |
| 18:22 23:9 | 7:1,3 | 2:54 (1) | |
| website (9) | zone (2) | 35:17 | 8 (1) |
| 3:17 4:8 5:17 8:9 | 25:22 26:4 | 2001 (1) | 5:2 |
| 9:13,16,21,24 24:21 | 1 | 5:12 | |
| weeks (4) | | 2009 (1) | |
| 28:5,6,8,12 | 10 (2) | 9:17 | |
| weeks' (1) | 5:12 8:17 | 2010 (1) | |
| 27:22 | 102.05 (1) | 9:18 | |
| weight (1) | 6:16 | 2015 (1) | |
| 28:17 | 11 (1) | 9:22 | |
| Wendy (1) | 5:18 | 2015-2016 (1) | |
| 11:16 | 1-159 (1) | 9:5 | |
| wetlands (2) | 3:8 | 2-inch (1) | |
| 13:24 14:3 | 13 (2) | 21:20 | |
| whatever (1) | 6:6 15:16 | 3 | |
| 16:10 | 14 (1) | | |
| what's (2) | 6:9 | 302-894-6308 (1) | |
| 13:1 19:24 | 15 (6) | 15:8 | |
| wires (1) | 6:11 13:7,8,13 | 30th (1) | |
| 20:22 | 32:18,24 | 13:4 | |
| within (1) | | | |