

## RFIs for VA257-17-B-0673 Replace Site Water & Sewer Systems

Q1. Tasks 2-4 require water tests. Could you please define the testing requirements?

A1. REFERENCE 33 10 00

Q2. Task #4-Reconnect dead leg on a 6" by-pass line. Please provide plans and details for this task.

A2. SEE ATTACHED AMENDMENT #00004

Q3. Tasks 5-7 as well as the Alternates: Per our pre-bid meeting, do we bid the depths shown on the Item Sheets for pipe and structures?

A3. SEE ATTACHED AMENDMENT #00004

Q4. Could you please tell us how you want us to bed the sanitary sewer and storm sewer pipe? Should we use 4" on the bottom, 10" on the sides, and 12" on top of the pipe?

A4. 31 20 11 PAGE 8 BEDDING. MINIMUM 12 INCHES ON TOP AND BOTTOM AND 6 INCHES ON SIDES.

Q5. Can we assume the preferred bedding material is Pit Run Gravel for all Pipe bedding?

A5. 31 20 11 PAGE 8 BEDDING

Q6. Could you provide details on the Headwalls? The spec book states to use Cast In Place TXDOT details. Could you please provide more information? Height and width of the Headwall, etc. Could precast headwalls be used here?

A6. PRECAST IS O.K. REF. TXDOT. SUBMIT DRAWINGS FOR APPROVAL.

Q7. Is there any hazardous material onsite?

A7. NONE KNOWN. FOLLOW LOCAL, STATE AND FEDERAL FOR REMOVAL OF SANITARY SEWER PIPING AND MANHOLES.

Q8. Why are we tying into an electric manhole on Alternate #3?

A8. SORRY HIGHLIGHTING GOT AWAY TO A MISLABELED DRAWING (NOT ELECTRICAL MANHOLE). CONTRACT DOCUMENTS STATES TO REMOVE AND REPLACE PIPING SOUTH OF BUILDING 5 FROM G64 TO MIDDLE OF CIRCLE. THIS IS THE INTERIOR CIRCLE WHICH IS APPROXIMATELY 325 FEET FROM G64.

Q9. What is the spec on the pipe material? Do we use PVC (SDR 35), RCP (it only goes as small as 12"), CMP, or HDPE?

A9. FOLLOW CONTRACT DOCUMENTS

From the master specifications

Sanitary Sewerage Utilities - 33 30 00 states under part 2 – PRODUCTS, 2.1 PIPING, A.1 Polyvinyl Chloride (PVC) and A.2 is Ductile Iron Pipe (DIP).

Storm Drainage Utilities – 33 40 00 states under part 2 – PRODUCTS, 2.1 PIPING, A-1 Concrete Reinforced Pipe and A.2 states Polyvinyl Chloride (PVC).

So, as you can see, the master specifications address the type of piping to be used.

Q10. Could you please indicate cleanouts by task?

A10. SEE ATTACHED AMENDMENT #00004

Q11. Task # 7- Your takeoff shows a 15" storm sewer from MH 15 to G 11. It is 8" in the plans. Which is correct?

A11. YES 8 INCH IS CORRECT. SEE AMENDMENT #00004 ON CORRECTED TAKEOFF SHEET.

Q12. Task # 7- Your takeoff shows an 18" storm sewer from MH 8 to G 11 to be 140'. Is this correct?

A12. YES

Q13. Task #7- Your takeoff shows a 24" storm sewer G 11 to MH 12. It shows 21" in the plans. Which is correct?

A13. TAKEOFF IS CORRECT 24 INCH

Q14. Alternate #00003- Your takeoff shows an 8" storm sewer from MH 34 to MH 33. It shows 10" in the plans. Which is correct?

A14. YES 10 INCH IS CORRECT. SEE ATTACHED AMENDMENT #00004 ON CORRECTED TAKEOFF SHEET.

Q15. Alternate #00003- There is an 8" storm sewer from MH 101B to MH 33 that is not shown in your takeoff. Is this correct?

A15. YES, YOU ARE CORRECT. SEE ATTACHED AMENDMENT #00004 ON CORRECTED TAKEOFF SHEET.

Q16. Alternate #2- Your takeoff shows a 12" storm sewer from MH 63 to MH 66. It shows 10" in the plans. Which is correct?

A16. TAKEOFF IS CORRECT 12 INCH

Q17. Alternate #2- Your takeoff shows a 12" storm sewer from MH 66 to MH 67. It shows 8" in the plans. Which is correct?

A17. TAKEOFF IS CORRECT 12 INCH

Q18. Alternate #3- Your takeoff shows a 15" storm sewer from MH 84 to MH 85. It shows 12" in the plans. Which is correct?

A18. YES 12 INCH IS CORRECT. SEE ATTACHED AMENDMENT #00004 ON CORRECTED TAKEOFF SHEET.

Q19. Alternate #3- Your takeoff show a 15" storm sewer from MH 85 to G 64. It shows 8" in the plans. Which is correct?

A19. YES 10 INCH IS CORRECT. SEE ATTACHED AMENDMENT #00004 ON CORRECTED TAKEOFF SHEET.

Q20. Can Trees be removed as needed?

A20. REFER TO SPECIFICATIONS ON PROTECTION OF EXISTING – In accordance with Section 01 00 00 – 16, Paragraph 1.9 A. The Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place.

Q21. Per our meeting, please verify that we are going around Building 15.

A21. BID PLANS AS SPECIFIED. – THE PLANS NOW INDICATE THAT THE STORM SEWER PIPING GOES UNDER B-15. B-15 HAS A CRAWL SPACE, BIDS SHALL BE SUBMITTED TO COMPLY WITH THE CURRENT PLAN.

Q22. Can you please verify your quantities for Task 7-4" storm sewer downspout around Buildings 7,8, and 92. You had 900' in your takeoff and I got 1,600'.

A22. TASK #7 WAS TO INCLUDE ALL STORM SEWER DOWNSPOUTS COMING OFF BUILDING 7 AND THE BRANCH LINES OFF THE MAIN TRAVELING DOWN BESIDE BUILDINGS 8 AND 92. THE REMAINDER OF THE STORM SEWER DOWNSPOUT BRANCH LINES WOULD BE UNDER ALTERNATE #00003. PLEASE USE 900 FEET FOR TASK #7.

Q23. Can you please verify your quantities for Alternate 1-4" storm sewer drainage lines around Buildings 90,91,92, and 8? You had 1,200' in your takeoff and I got 1,600'.

A23. ALTERNATE #00003 WAS TO TAKE CARE OF REMAINING STORM SEWER DOWNSPOUTS COMING OFF BUILDINGS 90 AND 92 WITH PARTIAL COMING OFF BUILDINGS 8 AND 92 NOT COVERED IN TASK #7. PLEASE USE 1,600 FEET FOR ALTERNATE #00004. REVISED QUANTITY IN AMMENDMENT #00003.

Q24. Can you please verify your quantities for Alternate 2-4" storm sewer drain lines around Building 1? You had 400' in your takeoff and I got 200'.

A24. WE AGREE WITH THE 200 FEET SEE ATTACHED AMENDMENT #00004.

Q25. Can you please verify your quantities for Alternate 3-4" storm sewer drain lines around Building 5? You had 300' in your takeoff and I got 200'.

A25. PLEASE USE 300 FEET FROM TAKEOFF.

Q26. Can you please verify your quantities for Alternate 3-4" storm sewer drain lines South of Building 5 from G 64 to Mid Circle? You had 400' in your takeoff and I got 200'.

A26. USE 325 FEET. ADJUSTMENT IN ATTACHED AMENDMENT #00004.

Q27. Can you please verify your quantities for Alternate 3-15" storm sewer MH 85 to G 64? You had 205' in your takeoff and I got 620'.

A27. USE 205 FEET FROM TAKEOFF

Q28. In lieu of remove and replace, can host pipes be replaced by pipe bursting with HDPE pipe? This trenchless method would reduce the social and environmental impact of construction. Another option would be to replace host pipe by sliplining with slightly smaller sized HDPE pipe.

A28. FOR BIDDING PURPOSES FOLLOW PLANS AND SPECIFICATIONS

Q29. Plans are not legible when reproduced. Scale not correct when put to 24" x 36" full plan sheets. Is it possible to get full scale plans?

A29. REVISED DRAWINGS WERE PROVIDED WITH AMENDMENT A00002.

Q30. Can you identify surface cover (depth and make up of dirt) above lines to be replaced?

A30. WE WOULD EXPECT TO FIND SAND BEDDING OF PIPE WITH NATIVE SOIL BACKFILL, DEPTH IS GIVEN ON THE BID DOCUMENTS.

Q31. Pipe profile not provided on storm sewer pipes?

A31. CORRECT

Q32. Are valves flange face valves and not MJ? Can bolts be removed to facilitate the removal/replacement of the valves? Valve specs? Gate valves open which direction?

A32. YES, BOLTS CAN BE REMOVED TO REMOVE VALVES. PLEASE FOLLOW SPECIFICATIONS ON THE TYPE OF VALVE AND OPERATION OF VALVE.

Q33. You mention replacing branch lines, grates, manholes along the route. Is that just in the immediate ditch line or are we replacing branch lines back to their source?

A33. FOLLOW CONTRACT DOCUMENTS. OTHER LINES THAT COME INTO A REPLACED MANHOLE ARE TO BE CONNECTED FOR COMPLETE OPERATION. STORM SEWER LINES DESCRIBED IN THE TAKEOFF AND SHOWN ON THE DRAWINGS ARE INCLUDED IN THE CONTRACT DOCUMENTS. OTHER STORM SEWER LINES THAT ARE NOT SHOWN NOR INDICATED IN THE TAKEOFF ARE TO REMAIN IN OPERATION FOR A STORM SEWER SYSTEM THAT IS FULLY OPERATIONAL.

Q34. Can you give a count of manholes and or branch line with sizes to be reconnected on each line segment to be replaced?

A34. FOLLOW CONTRACT DOCUMENTS AND ATTACHED AMENDMENT #00004.

Q35. When replacing piping is it size on size replacement?

A35. FOLLOW CONTRACT DOCUMENTS AND ATTACHED AMENDMENT #00004.

Q36. Can trench spoil removed be used as backfill?

A36. THE CONTRACT DOCUMENTS DESCRIBES PROPER BACKFILL AT DIFFERENT LOCATIONS. IN A GRASS AREA, THE NATIVE SOIL CAN BE USED AND COMPACTED AS REQUIRED. IF IT IS UNDER A STREET, PARKING LOT OR SIDEWALK THE REQUIREMENT FOR BASE IS DIFFERENT. PLEASE REFER TO THE CONTRACT DOCUMENTS.

Q37. Please provide the location of the tunnel where pipe is to be removed.

A37. NOT SURE WHAT TUNNEL YOU ARE REFERENCING? UNDER AMENDMENT #00004 WE HAVE INCLUDED AN UNDERGROUND UTILITY PLAN.

Q38. STORM DRAIN

Please clarify what types of pipe will be acceptable to use for the storm drain trunk lines, and for the roof drain leads.

A38. PER VA MASTER SPECIFICATION EITHER PIPE TYPE IS ACCEPTABLE. THE CONTRACTOR IS TO SUBMIT USING ONE OR BOTH IN THEIR APPLICATION FOR APPROVAL.

Q39. Please clarify what types of bedding aggregates will be suitable for the pipe used on the storm drains.

A39. PER BID DOCUMENTS - SEE QUESTION 4 – BEDDING – MINIMUM 12 INCHES ON TOP AND BOTTOM AND 6 INCHES ON SIDES. EITHER PIPE TYPE WILL WORK WITH THIS MINIMUM REQUIREMENT.

Q40. Please confirm that the materials excavated from the replace in place sanitary sewer, and storm are not considered to be hazardous material.

A40. WE HAVE NO KNOWLEDGE OF ANY HAZARDOUS MATERIALS. PLEASE FOLLOW LOCAL, STATE AND FEDERAL GUIDELINES FOR REMOVAL AND DISPOSAL OF SANITARY SEWER AND STORM SEWER LINES.

Q41. Please confirm that the roof drain leads are to be installed at minimum depths of 36".

A41. PER BID DOCUMENTS. PLEASE FOLLOW LOCAL, STATE AND FEDERAL GUIDELINES FOR PLUMBING INSTALLATION.

Q42. Please confirm that pre-cast head walls are acceptable to use.

A42. YES. SUBMIT AS REQUIRED FOR APPROVAL.

Q43. Please confirm that the contractor will be allowed to deviate from the proposed alignment to avoid trees, building and other structures when installing the proposed storm drain lines.

A43. BID AS OUTLINED IN DOCUMENTS. – DOCUMENTS HAVE A STRAIGHT LINE FROM POINT A TO POINT B. THIS IS THE WAY ALL CONTRACTORS SHOULD BID THE PROJECT. IN THE CODE, THERE IS ONLY A SLIGHT DEVIATION IN A LINE BEFORE YOU MUST INSTALL ANOTHER MANHOLE.

Q44. Please confirm that clean outs will be required on all roof drain leads.

A44. YES, CLEAN OUTS ARE REQUIRED. REFER TO ATTACHED AMENDMENT #00004 FOR IDENTIFICATION AND LOCATION.

Q45. Please clarify if the contractor will need to replace the cast iron down spout connection on all of the roof drains, and if so please provide a detail.

A45. MATCH EXISTING BOOT. SUBMIT FOR APPROVAL WITH THE MATERIALS.

Q46. Please confirm that contractors will be required to use pipe lasers for the install of the storm drain lines to ensure proper grades.

A46. BID AS OUTLINED IN DOCUMENTS – THIS FALLS INTO MEANS AND METHODS OF INSTALLATION. PLUMBING CODE REQUIRES THE SLOPE OF PIPING BEING INSTALLED. THE USE OF WATER TUBING, SURVEY EQUIPMENT, LASERS, ETC. CAN BE USED TO ACHIEVE.

Q47. Will pre-fabricated fittings be required on the storm drain installations?

A47. YES AS OUTLINED IN DOCUMENTS

Q48. SANITARY SEWER

Please confirm that SDR 35 26 Pipe is acceptable for the sanitary sewer.

A48. PER THE BID DOCUMENTS, NO THIS IS NOT ACCEPTABLE.

Q49. Please confirm that the sanitary sewer by-pass may be a temporary above ground install.

A49. YES, WITHIN A SECURED FENCE AREA

Q50. Will the contractor be required to keep personnel overnight to monitor the bypass pumping set up?

A50. CONTRACTOR IS RESPONSIBLE FOR CONTINUOUS OPERATION OF BYPASS. SAFETY, OSHA, LOCAL, STATE AND FEDERAL REQUIREMENTS, ETC. ARE TO BE ADHERED TO. – THIS IS MEANS AND METHODS. THERE ARE STRICT RULES THAT MUST BE ADHERED TO BY SAFETY, OSHA, LOCAL, STATE AND FEDERAL REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR CONTINUOUS OPERATION OF THE BYPASS PER APPLICABLE REGULATIONS.

Q51. What type of pumps will be required for the bypass pumping set up if noise control will be required?

A51. WE ASSUME THAT THE PUMPS WILL BE IN THE MANHOLE, NOISE CONTROL IS NOT REQUIRED.

Q52. Will the empty parking lot on the NE side near south new road may be used as a staging / laydown yard?

A52. YES. WILL DISCUSS WITH APPROVED BIDDER WITH AN APPROVED FENCING LAYOUT PLAN.

Q53. Will the sanitary manholes need to be coated? And if so, what are the mills, thickness, and the type of coating?

Q53. BID AS OUTLINED IN DOCUMENTS – OUR SPECIFICATIONS DO NOT CALL FOR ANY COATING. THE CITY OF WACO MAY HAVE A REQUIREMENT, OR THE STATE OF TEXAS TCEQ MAY HAVE A REQUIREMENT, CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.

Q54. Please confirm that the new sewer lines will need to be pressure tested, & mandrel tested.

A54. BID AS OUTLINED IN DOCUMENTS – SPECIFICATION SECTION 33 30 00 SANITARY SEWERAGE UTILITIES PARAGRAPH 3.15 HAS TESTING REQUIREMENTS.

Q55. Please confirm that all manholes will need to be vacuum tested.

A55. BID AS OUTLINED IN DOCUMENTS – SPECIFICATION SECTION 33 30 00 SANITARY SEWERAGE UTILITIES PARAGRAPH 3.15 HAS TESTING REQUIREMENTS.

Q56. Will the contractor be allowed to Pour in Place the base to the manhole located at ST 37+00 on the sanitary sewer line, in order to facilitate the by-pass pumping set up?

A56. YES, THIS IS WITHIN THE PERMETER FENCE AND WILL REQUIRE SECURE FENCING.

Q57. Will the trench safety plan need to be sealed by register engineer?

A57. FOLLOW LOCAL, STATE AND FEDERAL REQUIREMENTS. – 01 35 26 SAFETY REQUIREMENT REFERENCES OSHA 29 CFR 1926, ON WHO IS A COMPETENT PERSON, QUALIFIED PERSON, EQUIPMENT USED, AND DIFFERENT CONDITIONS. CONTRACTORS SHALL FOLLOW THE SPECIFICATIONS AS WRITTEN WHICH REFERENCE CODES FOR ALL CONDITIONS THAT MAY BE ENCOUNTERED.

Q58. Please confirm that contractors will be required to use pipe lasers for the install of the storm drain lines to ensure proper grades.

A58. SEE RESPONSE TO QUESTION 46

Q59. WATER

Will the contractor be allowed to remove the concrete tops of the vaults in order to facilitate the valve bank installs?

A59. WITH IN SECURED AREAS, YES.

Q60. Would the owner consider adding new valve vault tops to the bid proposal?

A60. PLEASE REFER TO THE CONTRACT DOCUMENTS. – FOR BIDDING PURPOSES, BID AS INDICATED IN THE SPECIFICATIONS AND DRAWINGS.

Q61. Will the use of non-domestic ductile iron fitting be acceptable to use?

A61. FEDERAL GUIDELINES REQUIRED THE BUY AMERICAN ACT AS OUTLINED IN CONTRACT DOCUMENTS.

Q62. Please confirm that the contractor will be required to swab all piping, and valve bank clusters with HTH, and that BAC-T samples will need to be taken before putting the lines back into service.

A62. PLEASE REFER TO THE CONTRACT DOCUMENTS. – THIS IS ADDRESSED IN 33 10 00 WATER UTILITIES. HOW TO INSTALL, AND TESTING IS OUTLINED ALONG WITH AWWA.

Q63. Please confirm that the contractor may use a tapping sleeve and valve for the tie in connection on the north west side of the property.

A63. THIS WAS DISCUSSED IN THE PRE-BID WALKTHRU AND AGREED THAT A "HOT TAP" WOULD BE AN APPROPRIATE METHOD TO TIE INTO EXISTING 10" WATER LINE.

Q64. Would paving rings be a more suitable method for the accessing the opening to the valve vault piping, instead of the flap covers?

A64. PLEASE REFER TO THE CONTRACT DOCUMENTS. – PAVING RINGS ARE NOT SPECIFIED. PLEASE FOLLOW THE CONTRACT DOCUMENTS.

Q65. GENERAL

What types of sod will be required, and on what areas?

A65. PLEASE REFER TO THE CONTRACT DOCUMENTS – SPEC SECTION 32 90 00 ALLOWS FOR SOD AND/OR SEED. THE SPECS GIVE FIVE (5) OPTIONS ON THE TYPES OF TURF SELECTIONS FOR WARM SECTIONS.

Q66. What type of hydro mulching will be required, and on what areas?

A66. PLEASE REFER TO THE CONTRACT DOCUMENTS – HYDRO MULCH IS A METHOD OF SEED DISTRIBUTION. SPEC SECTION 32 90 00 ALLOWS FOR SOD AND/OR SEED. ONE CLARIFICATION NEEDS TO BE GIVEN TO MATCH WITH THE STATE OF TEXAS REQUIREMENTS THAT ALL DISTURBED AREAS SHALL BE SODDED OR SEEDED UNTIL GRASS IS ESTABLISHED. CONTRACTOR IS TO WATER THIS NEW SOD OR SEED UNTIL IT MEETS THIS STATE OF TEXAS REQUIREMENT.

Q67. Is an SWPPP required?

A67. PLEASE REFER TO THE CONTRACT DOCUMENTS – THIS IS A STATE OF TEXAS REQUIREMENT. THE CONTRACTOR HAS TO ADHERE TO THE REQUIREMENTS OF DISTURBED AREAS.

Q68. Will erosion controls be required, and what types?

A68. PLEASE REFER TO THE CONTRACT DOCUMENTS – THIS IS A STATE OF TEXAS REQUIREMENT. FOR BIDDING PURPOSES BID AS INDICATED IN THE SPECIFICATIONS AND DRAWINGS.

Q69. Will the Contractor be required to irrigate the newly placed sod / hydro mulch, and if so will the VA provide water and the back flow preventer assemblies?

A69. PLEASE REFER TO THE CONTRACT DOCUMENTS. – NO. THE CONTRACTOR IS RESPONSIBLE FOR ALL APPENDAGES TIED TO WATER SUPPLY.

Q70. If a tree is damaged or dies after the pipe is installed will the contractor be required to replace it?

A70. PLEASE REFER TO THE CONTRACT DOCUMENTS – SECTION 01 00 00 -3, PARAGRAPH 1.2 A. STATES THE FOLLOWING: PROTECT AND REPLACE ANY DAMAGED VEGETATION, CONCRETE, FENCE, PARKING LOTS, ETC. DAMAGED DURING CONSTRUCTION. REPLACE DAMAGED SURFACE AREA WITH SOD.

Q71. Would the Owner/Engineer consider adding a rock clause to all installations?

A71. NO

Q72. Please confirm that the contractor will be required to install temporary fencing on all open excavations, and that the fencing must be sturdy enough to serve its purpose.

A72. YES

Q73. When is the anticipated start date?

A73. THIS PROJECT IS ANTICIPATED TO START AT THE END OF JULY TO THE BEGINNING OF AUGUST.

Q74. What are the liquidated damages for not completing on time, and what is the length of time on the project? Is this a calendar or working day project?

A74. LIQUIDATED DAMAGES ARE NOT INCLUDED IN THIS PROJECT. AS STATED ON THE SF1442, THIS PROJECT IS TO BE COMPLETED WITHIN 365 CALENDAR DAYS AFTER RECEIVING NOTICE TO PROCEED.

Q75. Who provides the soils testing, and the proctors?

A75. PLEASE REFER TO THE BID DOCUMENTS, CONTRACTOR TO INCLUDE TESTING LAB.

Q76. Who provides the survey lay out, and will cut sheets be required?

A76. PLEASE REFER TO THE BID DOCUMENTS ON SURVEYING AND AS BUILT DRAWINGS.

Q77. The plan sheets on Drawing 8 and Drawing 9, specify the sewer replacement as “Replace In Place”. This interprets that the existing pipe is not removed as in Remove and Replace, but that other methods will be involved such as pipe bursting. Will the method of pipe bursting be allowed for the gravity sewer replacement on Task 1? This method has been specified and used on many federal agency projects and federally funded projects. It is an accepted means of pipe replacement replacing the conventional open trench excavation.

By definition, pipe bursting is a trenchless replacement method in which an existing pipe is broken using an applied force. This force typically comes from a bursting head from a bursting tool. At the same time, a new pipe is pulled in to replace the existing pipe. This new pipe has the same (or larger) diameter as the existing pipe. The front end of the bursting head is connected to a cable or pulling rod, while the back end is connected to the new pipe. The bursting head, along with the new pipe, are launched from the insertion pit and the cable (or pulling rod) is pulled from the receiving pit. The power source that moves the bursting tool comes from power to the head of the bursting tool. This power is converted to a fracturing force on the existing pipe, breaking it and temporarily expanding the diameter of the cavity. The head is pulled through the debris from the pipe and creates a temporary cavity for the new pipe to travel. The base of the bursting head is larger than the inside diameter of the existing pipe, in order to

fracture it. It is also slightly larger than the outside diameter of the replacement pipe. This reduces the friction on the new pipe that is being placed. It also ensures enough space for moving the pipe into position. The tip of the bursting head is typically smaller in diameter than the existing pipe. This maintains alignment and ensures a uniform pipe burst.

A77. FOR BIDDING PURPOSES BID AS OUTLINED IN THE SPECIFICATIONS AND DRAWINGS. BID AS OUTLINED IN DOCUMENTS. REPLACE IN PLACE INDICATES THAT WE ARE USING THE SAME TRENCH AREA. IT IS THE INTENT OF THE CONTRACT TO REMOVE EXISTING LINE AND INSTALL NEW WHILE USING THE SAME TRENCH LOCATION.

Q78. If pipe bursting is an approved method of replacement for Task 1, can a specification be provided?

A78. BID AS OUTLINED IN DOCUMENTS

Q79. If pipe bursting is an approved method of replacement for Task 1, will 10" IPS DR17 HDPE be the approved pipe size?

A79. BID AS OUTLINED IN DOCUMENTS

Q80. Can you provide us with the existing pipe material of the storm drains? (i.e. reinforced concrete, unreinforced concrete, etc.)?

A80. FROM PVC TO CLAY TO CONCRETE – THE FACILITY HAS BEEN IN OPERATION SINCE THE EARLY 30'S SO MATERIAL OF PIPING OVER THE PAST 87 YEARS HAS BEEN DIFFERENT MATERIALS.

Q81. Due to the depth of the existing storm drain lines noted for replacement, would pipe bursting be considered to replace the storm drain lines to limit the excavation necessary in this active hospital setting if the existing pipe material is unreinforced concrete pipe?

A81. PER BID DOCUMENTS

Q82. Due to the existence of some storm drain lines being replaced under existing structures, is it correct in the assumption that pipe bursting is an allowed means of replacement to eliminate the need for re-routing the storm drain if the existing pipe material is unreinforced concrete pipe?

A82. PER BID DOCUMENTS

Q83. Would slip lining existing storm drains be an option for the storm drain task orders? Slip lining reduces the inside diameter/flow area of the pipe, but with a substantially decreased friction factor for plastic pipe, velocities would be higher, potentially moving as much water as the current sizes and reducing project cost substantially.

A83. PER BID DOCUMENTS

Q84. Tasks 2-4 require water tests. Could you please define the testing requirements?

A84. SEE RESPONSE TO QUESTION 1

Q85. Task #4-Reconnect dead leg on a 6" by-pass line. Please provide plans and details for this task.

A85. SEE RESPONSE TO QUESTION 2

Q86. Tasks 5-7 as well as the Alternates: Per our pre-bid meeting, do we bid the depths shown on the Item Sheets for pipe and structures?

A86. SEE RESPONSE TO QUESTION 3

Q87. Could you please tell us how you want us to bed the sanitary sewer and storm sewer pipe? Should we use 4" on the bottom, 10" on the sides, and 12" on top of the pipe?

A87. SEE RESPONSE TO QUESTION 4

Q88. Can we assume the preferred bedding material is Pit Run Gravel for all Pipe bedding?

A88. SEE RESPONSE TO QUESTION 5

Q89. Could you provide details on the Headwalls? The spec book states to use Cast in Place TXDOT details. Could you please provide more information? Height and width of the Headwall, etc. Could precast headwalls be used here?

A89. SEE RESPONSE TO QUESTION 6

Q90. Is there any hazardous material onsite?

A90. SEE RESPONSE TO QUESTION 7

Q91. Why are we tying into an electric manhole on Alternate #3?

A91. SEE RESPONSE TO QUESTION 8

Q92. What is the spec on the pipe material? Do we use PVC (SDR 35), RCP (it only goes as small as 12"), CMP, or HDPE?

A92. SEE RESPONSE TO QUESTION 9

Q93. Could you please indicate cleanouts by task?

A93. SEE RESPONSE TO QUESTION 10

Q94. Task # 7- Your takeoff shows a 15" storm sewer from MH 15 to G 11. It is 8" in the plans. Which is correct?

A94. SEE RESPONSE TO QUESTION 11

Q95. Task # 7- Your takeoff shows an 18" storm sewer from MH 8 to G 11 to be 140'. Is this correct?

A95. SEE RESPONSE TO QUESTION 12

Q96. Task #7- Your takeoff shows a 24" storm sewer G 11 to MH 12. It shows 21" in the plans. Which is correct?

A96. SEE RESPONSE TO QUESTION 13

Q97. Alternate #00003- Your takeoff shows an 8" storm sewer from MH 34 to MH 33. It shows 10" in the plans. Which is correct?

A97. SEE RESPONSE TO QUESTION 14

Q98. Alternate #00003- There is an 8" storm sewer from MH 101B to MH 33 that is not shown in your takeoff. Is this correct?

A98. SEE RESPONSE TO QUESTION 15

Q99. Alternate #2- Your takeoff shows a 12" storm sewer from MH 63 to MH 66. It shows 10" in the plans. Which is correct?

A99. SEE RESPONSE TO QUESTION 16

Q100. Alternate #2- Your takeoff shows a 12" storm sewer from MH 66 to MH 67. It shows 8" in the plans. Which is correct?

A100. SEE RESPONSE TO QUESTION 17

Q101. Alternate #3- Your takeoff shows a 15" storm sewer from MH 84 to MH 85. It shows 12" in the plans. Which is correct?

A101. SEE RESPONSE TO QUESTION 18

Q102. Alternate #3- Your takeoff show a 15" storm sewer from MH 85 to G 64. It shows 8" in the plans. Which is correct?

A102. SEE RESPONSE TO QUESTION 19

Q103. Can Trees be removed as needed?

A103. SEE RESPONSE TO QUESTION 20

Q104. Per our meeting, please verify that we are going around Building 15.

A104. SEE RESPONSE TO QUESTION 21

Q105. Can you please verify your quantities for Task 7-4" storm sewer downspout around Buildings 7,8, and 92. You had 900' in your takeoff and I got 1,600'?

A105. SEE RESPONSE TO QUESTION 22

Q106. Can you please verify your quantities for Alternate 1-4" storm sewer drainage lines around Buildings 90, 91, 92, and 8? You had 1,200' in your takeoff and I got 1,600'.

A106. SEE RESPONSE TO QUESTION 23

Q107. Can you please verify your quantities for Alternate 2-4" storm sewer drain lines around Building 1? You had 400' in your takeoff and I got 200'.

A107. SEE RESPONSE TO QUESTION 24

Q108. Can you please verify your quantities for Alternate 3-4" storm sewer drain lines around Building 5? You had 300' in your takeoff and I got 200'.

A108. SEE RESPONSE TO QUESTION 25

Q109. Can you please verify your quantities for Alternate 3-4" storm sewer drain lines South of Building 5 from G 64 to Mid-Circle? You had 400' in your takeoff and I got 200'.

A109. SEE RESPONSE TO QUESTION 26

Q110. Can you please verify your quantities for Alternate 3-15" storm sewer MH 85 to G 64? You had 205' in your takeoff and I got 620'.

A110. SEE RESPONSE TO QUESTION 27

Q111. As per the City of Waco Specs, the precast manholes require epoxy coating. Could you verify this please?

A111. SEE RESPONSE TO QUESTION 53

Q112. Project plans are missing information which bidders require to bid the project, including depth information for existing manholes and structures being replaced. Depth of lines, manholes, etc. affect pricing of removal and installation. For example, Task 5 Storm Manhole 97 and Headwall do not have invert elevations shown. There are many manholes and headwalls with this condition. Please provide invert flow elevations for all manholes by amendment.

A112. PLEASE REFER TO UNDERGROUND UTILITY PLAN FOR ADDITIONAL INFORMATION.

Q113. Select As-Built storm drain lines have been provided for bidders to bid replacement of the existing lines. If storm utility item is not shown on the as-built it will not get priced. May be typical for other utilities as well. If items are not shown on as-builts which require to be priced, please clarify what these are by amendment to all bidders.

A113. TAKEOFF LINEAR MEASUREMENT IS TO BE VERIFIED AT TIME OF WORK AND ADJUSTMENT OF CONTRACT PRICE WILL BE BASED UPON TOTAL LENGTH FOR EACH TASK OR ALTERNATE. - WE HAVE GIVEN ESTIMATED MEASUREMENTS. THE STATEMENT GIVEN ABOVE IS LIKE THAT OF DRILL PIERS, WE HAVE ESTIMATED 400 LINEAR FEET ON THE TAKEOFF, IF THE ACTUAL IS 320 FEET THEN WE WOULD KEEP TRACK OF THAT PER TASK.

Q114. Specification scope of work does not match up with what is shown on Dwg 18 of 22, W-CS-0.01 Campus Site Plan Storm Sewer Layout. Specification Scope of work requires replacement of storm drain

lines around buildings including and up to downspout boots. Plan sheet W-CS-0.01 shows much of the work around each building to be left as existing. Please clarify which is correct.

A114. TASK DESCRIPTION AND ALTERNATE DESCRIPTION ARE GIVEN IN THE SPECIFICATIONS OF THE BID ITEMS. THE TAKEOFF IS AN AID TO ASSIST IN THE TASK DESCRIPTION. THE LINEAR FOOTAGE SHALL BE ADJUSTED TO EXISTING CONDITIONS. PLEASE USE REVISED TASK TAKEOFF AS PART OF AMMENDMENT #00003 AS THE BASIS OF BID.

Q115. It appears that some utilities being replaced travel under existing roadways. We understand that road cutting and patching is allowed and to be performed per details on CS11. If any boring of roads will be required in lieu of patching, please indicate specific locations by amendment.

A115. BID AS OUTLINED IN CONTRACT DOCUMENTS. – WE HAVE EXCAVATION AND PIPE REPLACEMENT AS OUTLINED IN THE CONTRACT DOCUMENTS. NO BORING UNDER ROADS IS REQUIRED FOR THIS PROJECT.

Q116. Building Wage Decision has been provided. Please provide a Heavy/Highway Wage decision as well for work performed more than 5' from the building line.

A116. SEE ATTACHED.

Q117. Specification Section 01 35 26 Safety Requirements paragraph 1.7.A indicates the prime contractor shall designate a minimum of one Site Safety and Health Officer (SSHO) at each project site. We understand that the SSHO can also serve as the superintendent similar to para 1.7.C. If this is not a correct understanding, please clarify otherwise by amendment.

A117. SSHO IS SEPARATE QUALIFIED INDIVIDUAL, REF. CONTRACT DOCUMENTS.

Q118. New Sanitary Sewer Line is shown to replace existing sanitary sewer line in the same location. Location on CS3 goes through a stand of trees at the edge of a parking lot. These tree(s) may be damaged as the existing sewer line may be either under the tree or under the trees roots. Tree may be required to be demolished if roots are too badly damaged due to close proximity to the existing sanitary sewer line. Please confirm this is acceptable (general question for entire project).

A118. BID AS OUTLINED IN CONTRACT DOCUMENTS. – IN ACCORDANCE WITH SECTION 01 00 00 – 16, PARAGRAPH 1.9 A. THE CONTRACTOR SHALL ONLY REMOVE TRESS WHEN SPECIFICALLY AUTHORIZED TO DO SO, AND SHALL AVOID DAMAGING VEGETATION THAT WILL REMAIN IN PLACE.

Q119. Specifications provide Section 32 31 13 Chain Link Fences and Gates. We do not find any new fencing required. If new fencing and gates are required, please clarify locations by amendment.

A119. ALL WORK IS TO BE ACCOMPLISHED IN SECURED AREAS OF OPERATION BEHIND FENCES. PLEASE FOLLOW CONTRACT DOCUMENTS.

Q120. Plan sheet CD1 identifies removal of sanitary lines at Eastern portion of plan which is generally from Tennis Courts to South New Road. The new work for this line is shown on CS1, CS2, and CS3. CD1 also shows to demo sanitary lines at Western portion of plan generally between Beverly Drive near

BM#52 to near building 98. Is the demolition of this line intended as we find no new sanitary sewer line to replace it and it is not included in the specification statement of work.

A120. THE ONLY SANITARY SEWER TO BE DEMOLISHED, REMOVED AND REPLACES IS UNDER TASK #1. DELETE ANY REFERENCES AND OR REQUIREMENT FOR ADDITIONAL SANITARY SEWER LINE NOT DESCRIBED UNDER TASK #1.

Q121. Specification section 02 41 00 instructs to completely demolish and remove buildings and structures...as required for installation of new utility service lines. If any buildings and structures are required to be demolished, please identify which buildings and structures pre-bid to all bidders so these costs can be included.

A121. THIS IS PART OF THE MASTER SPECIFICATIONS AND WE DO NOT INTEND TO DEMOLISH ANY BUILDINGS. IN THE PREBID A QUESTION CAME UP ABOUT CONCRETE. IF CONCRETE ROADS, SIDEWALKS OR OTHER IS EXISTING, WE EXPECT IT TO BE REPLACE WITH NEW TO MATCH EXISTING.

Q122. Task #4 in the scope of work indicates to reconnect dead leg on 6" by-pass line that was cut during construction of elevated water storage tank and connect by-pas to main line. The extent of the new work is not depicted on plan sheet CS4 which is labeled Task 4. Please provide layout of the new water line required by amendment including point of connection and depth of water line and what type of pipe the existing water line is (steel , pvc, etc.).

A122. SEE ATTACHED DRAWING UNDER AMENDMENT #00004.

Q123. Is sanitary sewer line in Task 1 currently in use? If yes, please indicate where sanitary sewer will be diverted to during the reconstruction of task 1 sanitary sewer.

A123. YES, THE SANITARY SEWER LINE IS CURRENTLY IN USE. PLEASE FOLLOW INSTRUCTIONS UNDER CONTRACT DOCUMENTS FOR BYPASS.

Q124. Will contractors be required to provide the following related to the new sanitary sewer work at South New Road?

- a. Permit Costs from City of Waco to shut down South New Road
- b. City of Waco fees related to barricading South New Road (Road Rental)
- c. Fees related to barricade South New Road (from company like Flasher)?

A124. CONTRACT DOCUMENTS OF WORK AND INTENT WAS TO INCLUDE NEW MANHOLE AT 8+37 AS SHOWN ON CS3. IF BYPASS OR OTHER IS TO IMPED WORK ON CITY OF WACO PROPERTY THEN YES, THE CONTRACTOR IS TO COORDINATE PERMIT COSTS, FEES, BARRICADES, ETC. FOR A COMPLETE, UNINTERUPPED, AND FULLY OPERATIONAL SYSTEM.

Q125. Some parts of the plans/specs indicate to sod patch grass areas, while the specifications also allow for seed patch. Please clarify if seed patch will be allowed and if allowed, locations where it will be allowed.

A125. THE SPECS ALLOW THE CONTRACTOR TO USE EITHER SOD OR SEED.

Q126. Headwall lengths are not identified on the drawing. What overall length is required for storm headwalls (reference plan detail 12/CS10)?

A126. PRECAST UNITS HAVE BEEN APPROVED FOR USE. PLEASE SUBMIT STANDARD UNITS FOR APPROVAL.

Q127. Street Patch Details provided on CS11 are for asphaltic concrete. If any existing roads being patched are concrete paving, please indicate locations and provide patch details for these roads by amendment.

A127. PLEASE REFER TO AMENDMENT #00004 FOR DETAIL SHEET OF CONCRETE.

Q128. There seem to be details provided in the plans which are not applicable to the project, such as fire hydrant detail, sump pit detail, concrete trench details, etc. If these details are to be used in the construction of this project, please clarify locations by amendment.

A128. THESE ARE STANDARD DETAIL SHEETS, PLEASE FOLLOW CONTRACT DOCUMENTS AND DISREGARD ANY DETAIL THAT IS NOT APPLICABLE.

Q129. Please confirm precast manhole manufacturer can provide standard manholes for this project which can vary from detail 6/CS11 if the boxes meet all applicable code requirements.

A129. PRECAST UNITS HAVE BEEN APPROVED FOR USE. PLEASE SUBMIT STANDARD UNITS FOR APPROVAL THAT MEET REQUIREMENTS OF THE CONTRACT.

Q130. Can a basis of design (mfr/model #) and specification be provided for the replacement of the downspout boots at each building?

A130. BOOTS WERE INSTALLED IN THE '30'S AND '40'S. MATCH EXISTING. SUBMIT FOR APPROVAL.

Q131. Please confirm road closures will be allowed at all utilities crossing roadways on campus.

A131. YES. WE WILL WORK WITH CONTRACTOR TO DEVELOP PLANS THAT WILL ALLOW THE MEDICAL CENTER TO REMAIN IN OPERATION DURING CONSTRUCTION. REFER TO CONTRACT DOCUMENTS.

Q132. What type of temp protection is required at new utility line trenches (orange plastic fence or 6' temp chain-link fence)?

A132. REFER TO 01 00 00 UNDER OPERATIONS AND STORAGE AREAS AND FENCING SPECIFICATIONS.